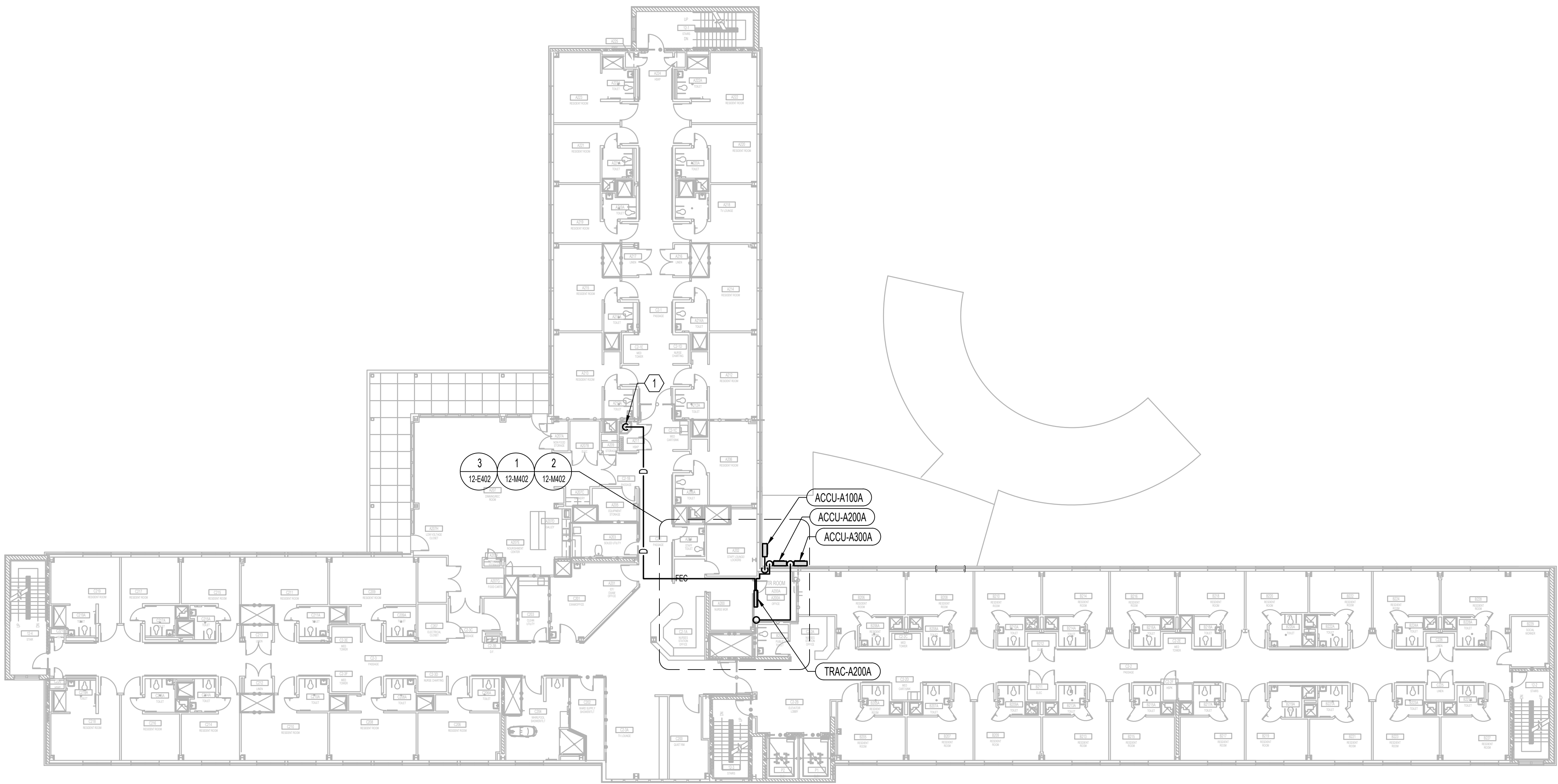


MECHANICAL GENERAL NOTES

- A. SEE ENLARGED TELECOMMUNICATION ROOM MECHANICAL PLANS PER CIRCLE TAG DESIGNATIONS.
- B. SEE COMBINED OVERALL FLOOR AND ROOF PLANS FOR SPLIT SYSTEM AIR COOLED CONDENSING UNIT (ACCU) LOCATIONS AND PIPING ROUTES.

MECHANICAL KEY NOTES

1. NEW 3/4" CONDENSATE DRAIN PIPING DOWN. TERMINATE 6" ABOVE MOP SINK.

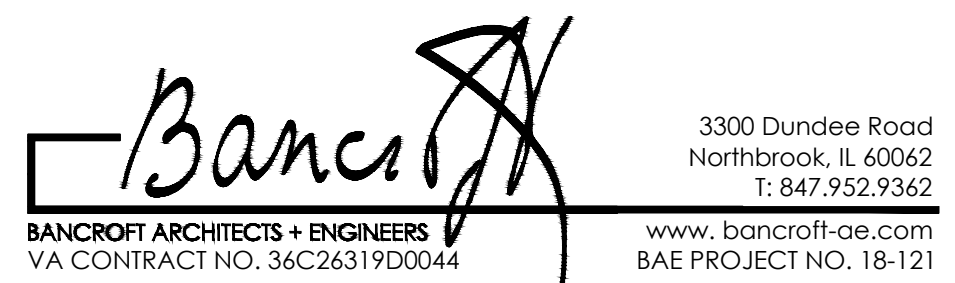


1 MECHANICAL - BUILDING 12 - SECOND FLOOR - OVERALL
1/8"=1'-0"

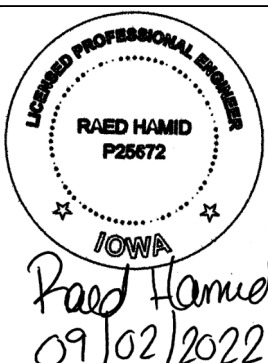
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FINAL CONSTRUCTION DOCUMENTS SUBMISSION	03/28/2022
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95% CONSTRUCTION DEVELOPMENT SUBMISSION	02/10/2022
65% DESIGN DEVELOPMENT SUBMISSION	12/09/2021
35% DESIGN DEVELOPMENT SUBMISSION	10/07/2021
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD



STAMP



Office of
Construction
and Facilities
Management



Drawing Title
MECHANICAL - BUILDING 12 -
SECOND FLOOR - OVERALL

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE
UPGRADES

Location
DES MOINES, IOWA

Issue Date
09/02/2022

Checked
DG

Drawn
IL

Project Number
636A6-21-101

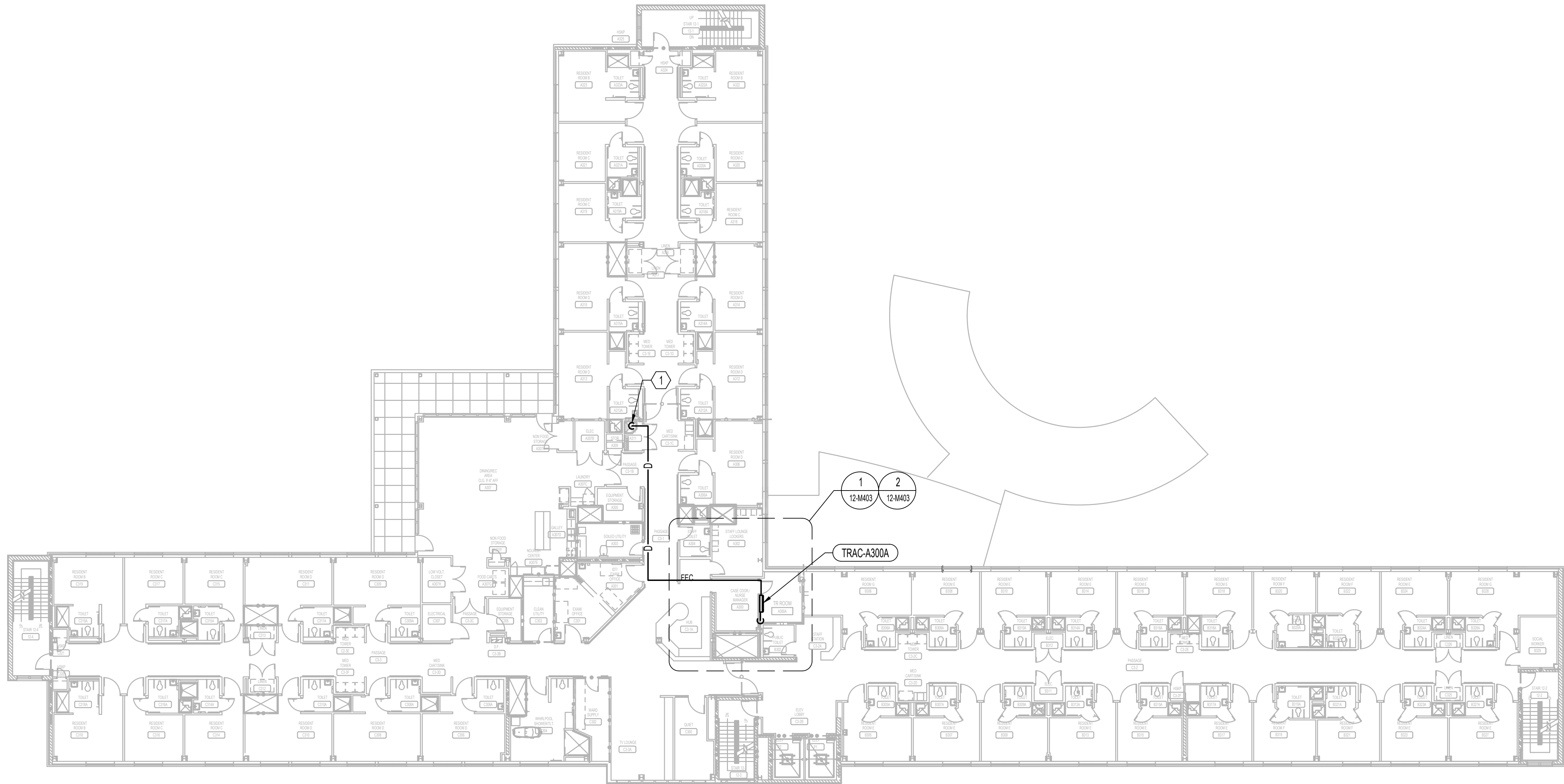
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11, 12, 21, 24, 25, 27, & 28

Drawing Number
12-M102

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m



MECHANICAL - BUILDING 12 - THIRD FLOOR - OVERALL
1/16"=1'-0"

MECHANICAL GENERAL NOTES

- A. SEE ENLARGED TELECOMMUNICATION ROOM MECHANICAL PLANS PER CIRCLE TAG DESIGNATIONS.
- B. SEE COMBINED OVERALL FLOOR AND ROOF PLANS FOR SPLIT SYSTEM AIR COOLED CONDENSING UNIT (ACCU) LOCATIONS AND PIPING ROUTES.

MECHANICAL KEY NOTES

1. NEW 3/4" CONDENSATE DRAIN PIPING DOWN. TERMINATE 6" ABOVE MOP SINK.

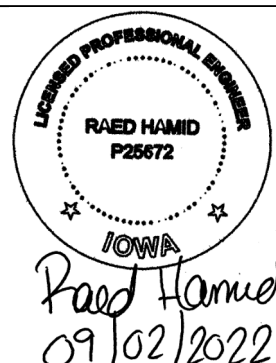
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35% DESIGN DEVELOPMENT SUBMISSION	10/07/2021
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

Bancroft
BANCROFT ARCHITECTS + ENGINEERS
VA CONTRACT NO. 36C26319D0044
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3300 Dundee Road
Northbrook, IL 60062
T: 847.952.9362
BAE PROJECT NO. 18-121

STAMP



Office of
Construction
and Facilities
Management



U.S. Department
of Veterans Affairs

Drawing Title
**MECHANICAL - BUILDING 12 - THIRD
FLOOR - OVERALL**

Approved: Project Director

Phase
**CONSTRUCTION
DOCUMENTS**

FULLY SPRINKLERED

Project Title
**EHRM INFRASTRUCTURE
UPGRADES**

Location
DES MOINES, IOWA

Issue Date
09/02/2022

Checked
DG

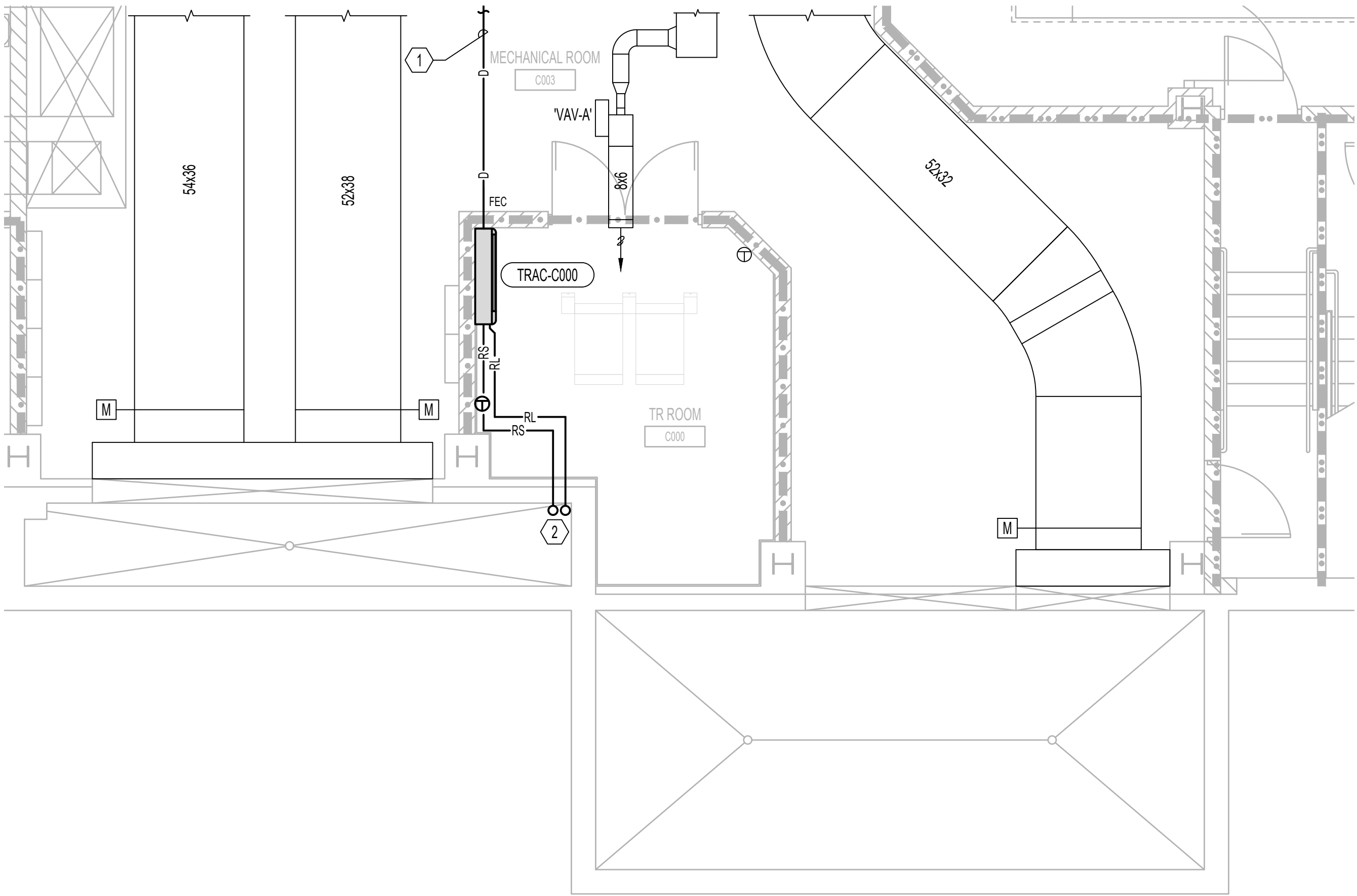
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Project Number
636A6-21-101

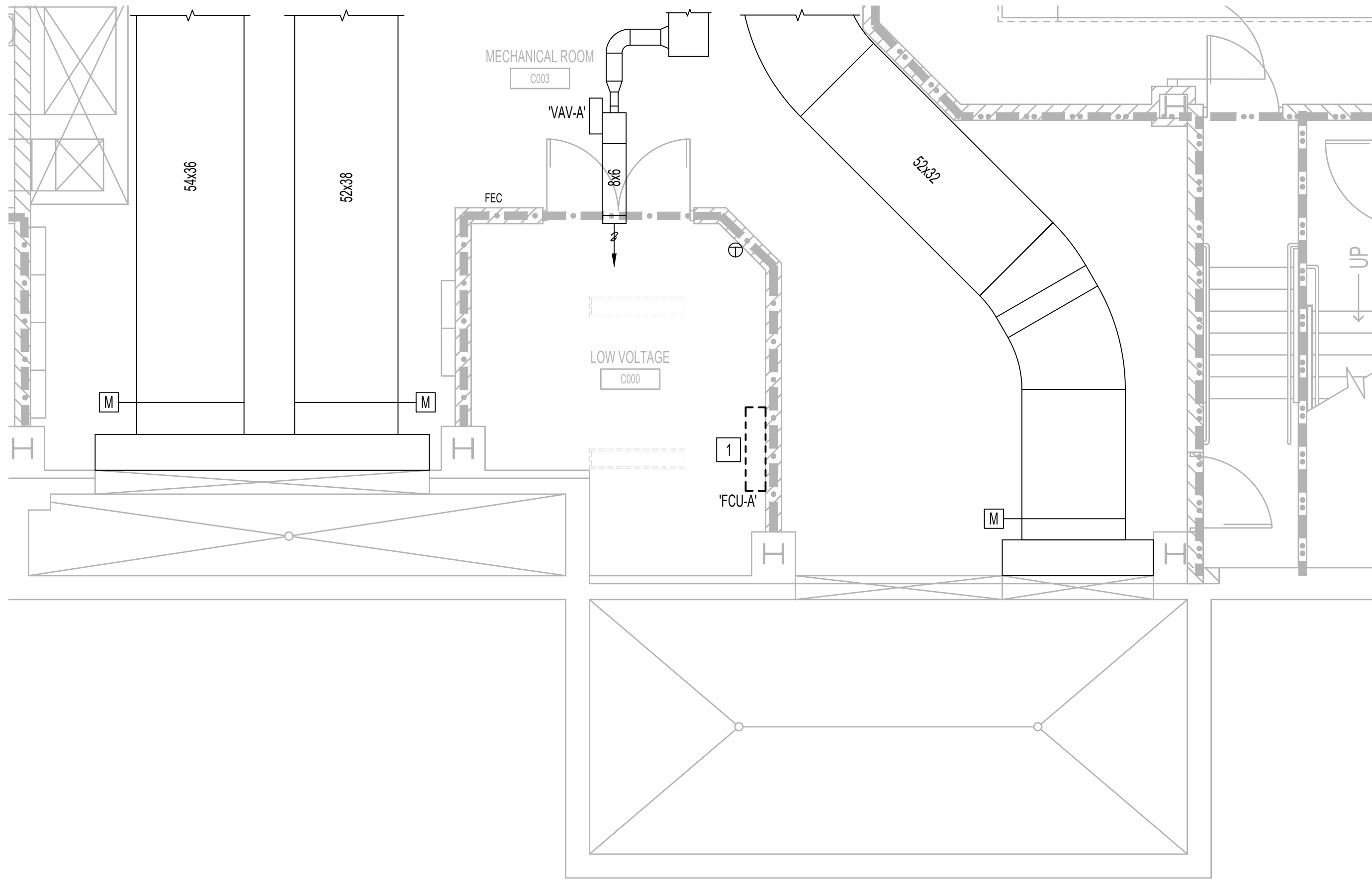
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11, 12, 21, 24, 25, 27, & 28

Drawing Number
12-M103

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m



2 MECHANICAL - BUILDING 12 - ROOM C000 - NEW WORK
1/8"=1'-0"



1 MECHANICAL - BUILDING 12 - ROOM C000 - DEMOLITION
1/8"=1'-0"

MECHANICAL DEMOLITION
KEY NOTES

1. REMOVE EXISTING FAN COIL UNIT IN ITS ENTIRETY.

MECHANICAL GENERAL NOTES

- A. CLEAN AND SEAL ALL EXISTING DUCTWORK THAT WILL BE REUSED.
- B. PROVIDE BALANCING DAMPER AT ALL SUPPLY DIFFUSER AND RETURN EXHAUST GRILLES WHETHER OR NOT SHOWN ON DRAWINGS.
- C. COORDINATE CEILING MOUNTED GRILLES AND DIFFUSERS WITH SPRINKLER HEADS, LIGHTING FIXTURES AND ALL CEILING MOUNTED DEVICES. REFER TO ARCHITECTURAL CEILING GRID DRAWINGS FOR LOCATIONS.
- D. CEILING ACCESS SHALL BE PROVIDED FOR ALL HVAC EQUIPMENT AND COMPONENTS LOCATED ABOVE THE CEILING THAT REQUIRE OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION.
- E. DURING CONSTRUCTION, PROVIDE TEMPORARY CLOSURES ON ALL SUPPLY AND RETURN AIR DUCT OPENINGS BY SEALING WITH A DISPOSABLE POLYETHYLENE SHEETING TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM OR AIR TERMINAL UNITS.
- F. CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL INSULATION AT EXISTING SHEET METAL DUCTWORK WHICH BECOMES DAMAGED DURING CONSTRUCTION ACTIVITIES AND SHALL REPAIR OR REPLACE ANY INSULATION AT NEW AND OLD DUCT CONNECTIONS AND ANY MISSING OR DAMAGED INSULATION ON REUSED OR EXISTING DUCTWORK.
- G. CONTRACTOR TO REWORK AND REROUTE EXISTING DUCTWORK AND PIPING TO ACCOMMODATE NEW CABLE TRAY. REFER ARCHITECTURAL DRAWINGS FOR EXACT ROUTING.

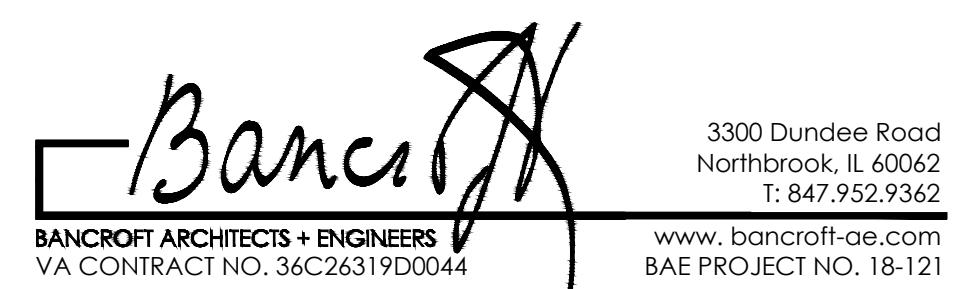
MECHANICAL KEY NOTES

1. NEW 3/4" CONDENSATE DRAIN PIPING TO NEAREST FLOOR DRAIN. REFER TO 12-M100 FOR EXACT LOCATION.
2. NEW REFRIGERANT LIQUID AND SUCTION PIPING UP TO 'ACCU-C000'. REFER TO 12-M101 FOR EXACT LOCATION.

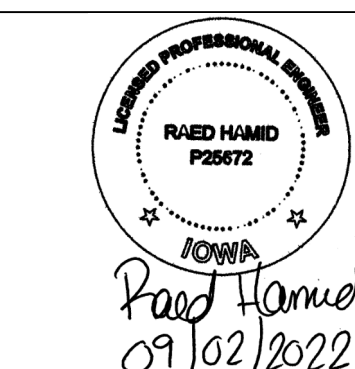
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35% DESIGN DEVELOPMENT SUBMISSION	10/07/2021
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD



STAMP



Office of
Construction
and Facilities
Management



Drawing Title
MECHANICAL - ENLARGED PLAN -
BASEMENT

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE
UPGRADES

Location
DES MOINES, IOWA

Issue Date
09/02/2022

Checked
DG

Drawn
IL

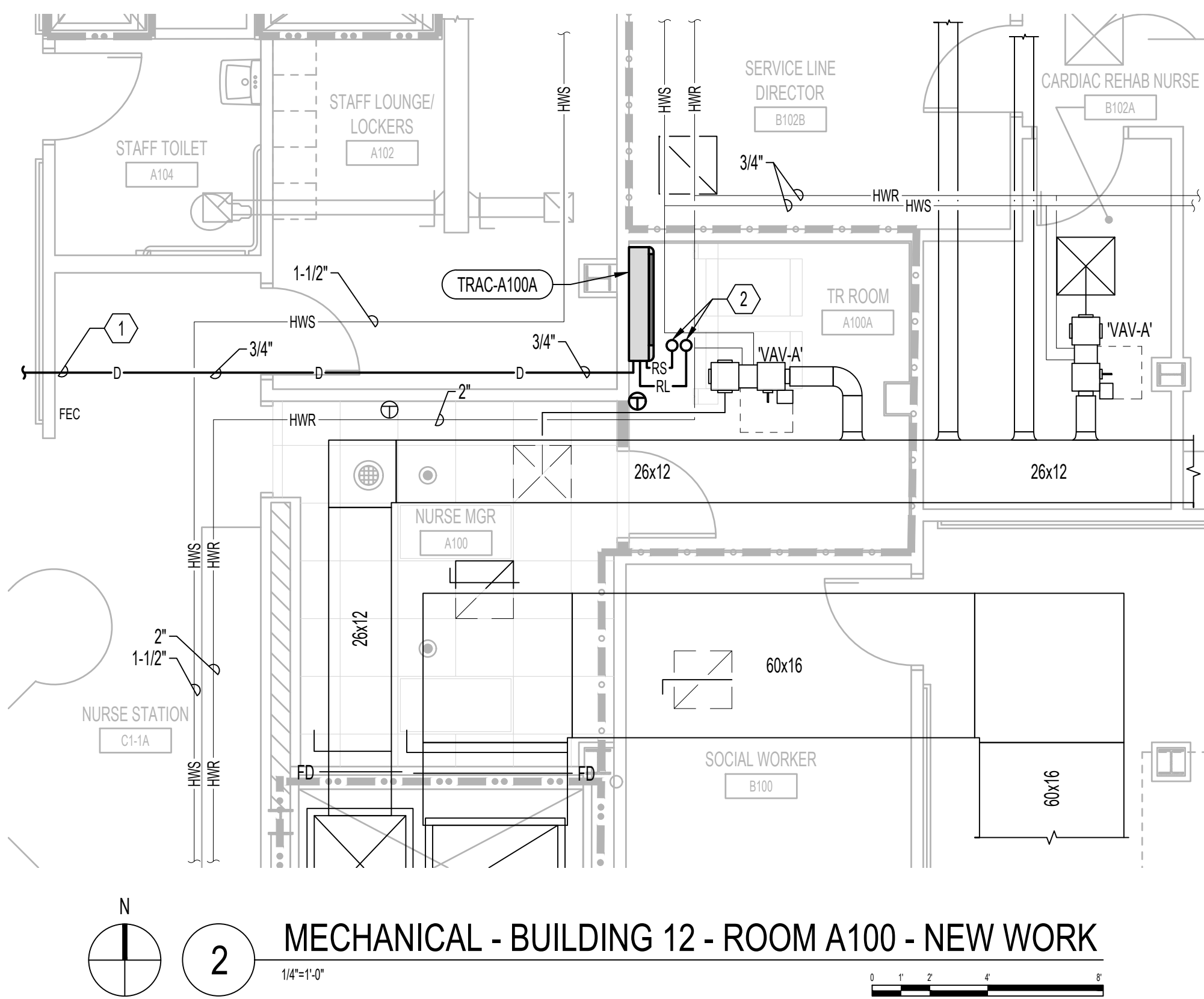
Project Number
636A6-21-101

Building Number
1, 2, 3, 4, 5, 6M, 7M, 9, 10,
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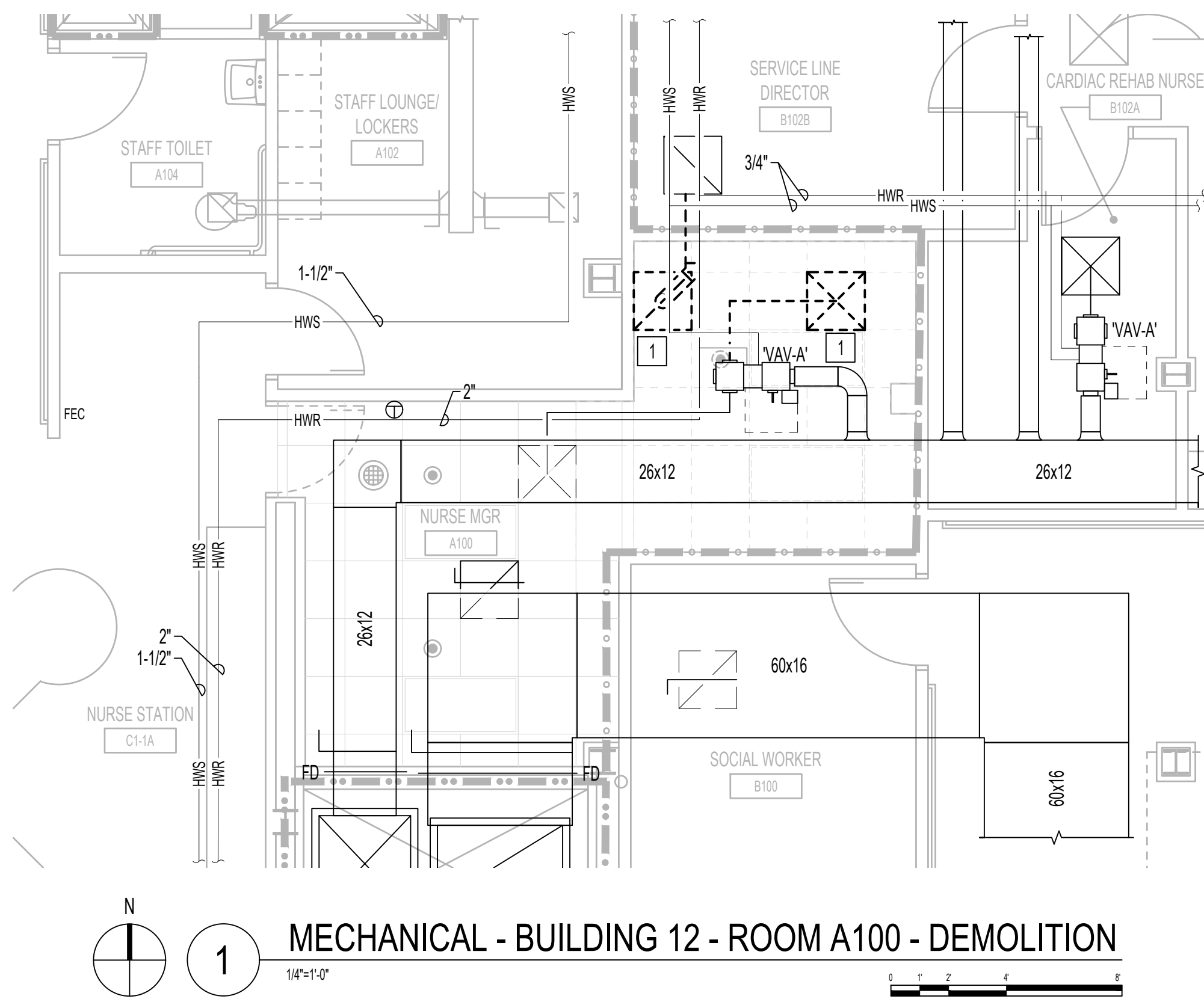
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VA FORM 08 - 6231



2 MECHANICAL - BUILDING 12 - ROOM A100 - NEW WORK



1 MECHANICAL - BUILDING 12 - ROOM A100 - DEMOLITION

MECHANICAL DEMOLITION KEY NOTES

- REMOVE DUCTWORK, INSULATION, DIFFUSERS, GRILLES, HANGERS, ETC. SHOWN DASHED AND CAP AT MAIN.

MECHANICAL GENERAL NOTES

- CLEAN AND SEAL ALL EXISTING DUCTWORK THAT WILL BE REUSED.
- PROVIDE BALANCING DAMPER AT ALL SUPPLY DIFFUSER AND RETURN EXHAUST GRILLES WHETHER OR NOT SHOWN ON DRAWINGS.
- COORDINATE CEILING MOUNTED GRILLES AND DIFFUSERS WITH SPRINKLER HEADS, LIGHTING FIXTURES AND ALL CEILING MOUNTED DEVICES. REFER TO ARCHITECTURAL CEILING GRID DRAWINGS FOR LOCATIONS.
- CEILING ACCESS SHALL BE PROVIDED FOR ALL HVAC EQUIPMENT AND COMPONENTS LOCATED ABOVE THE CEILING THAT REQUIRE OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION.
- DURING CONSTRUCTION, PROVIDE TEMPORARY CLOSURES ON ALL SUPPLY AND RETURN AIR DUCT OPENINGS BY SEALING WITH A DISPOSABLE POLYETHYLENE SHEETING TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM OR AIR TERMINAL UNITS.
- CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL INSULATION AT EXISTING SHEET METAL DUCTWORK WHICH BECOMES DAMAGED DURING CONSTRUCTION ACTIVITIES AND SHALL REPAIR OR REPLACE ANY INSULATION AT NEW AND OLD DUCT CONNECTIONS AND ANY MISSING OR DAMAGED INSULATION ON REUSED OR EXISTING DUCTWORK.
- CONTRACTOR TO REWORK AND REROUTE EXISTING DUCTWORK AND PIPING TO ACCOMMODATE NEW CABLE TRAY. REFER ARCHITECTURAL DRAWINGS FOR EXACT ROUTING.

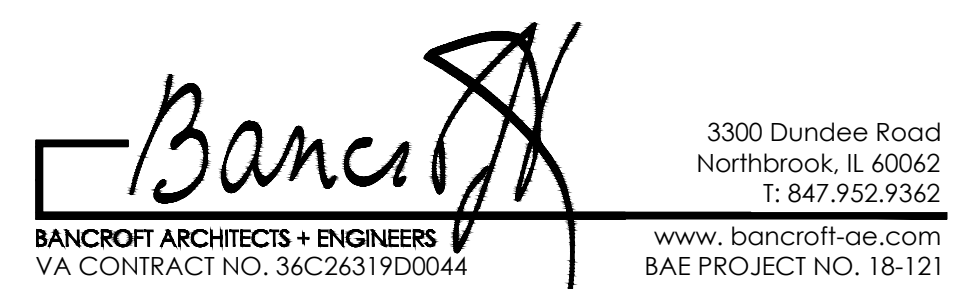
MECHANICAL KEY NOTES

- NEW 3/4" CONDENSATE DRAIN PIPING TO BE ROUTED TO MOP SINK IN ROOM A111. REFER TO 12-M101 FOR EXACT LOCATION AND ROUTING.
- NEW REFRIGERANT PIPING UP TO 'ACCU-A100A' ON ROOF ABOVE.

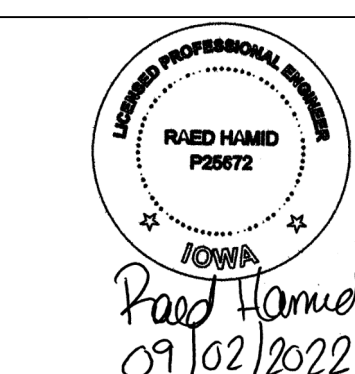
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35% DESIGN DEVELOPMENT SUBMISSION	10/07/2021
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD



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Office of Construction and Facilities Management



Drawing Title MECHANICAL - ENLARGED PLAN - FIRST FLOOR

Approved: Project Director

Phase CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title EHRM INFRASTRUCTURE UPGRADES

Location
DES MOINES, IOWA

Issue Date
09/02/2022

Checked
DG

Drawn
IL

Project Number
636A6-21-101

Building Number
1, 2, 3, 4, 5, 6M, 7M, 9, 10, 11, 12, 21, 24, 25, 27, & 28

Drawing Number
12-M401

MECHANICAL DEMOLITION
KEY NOTES

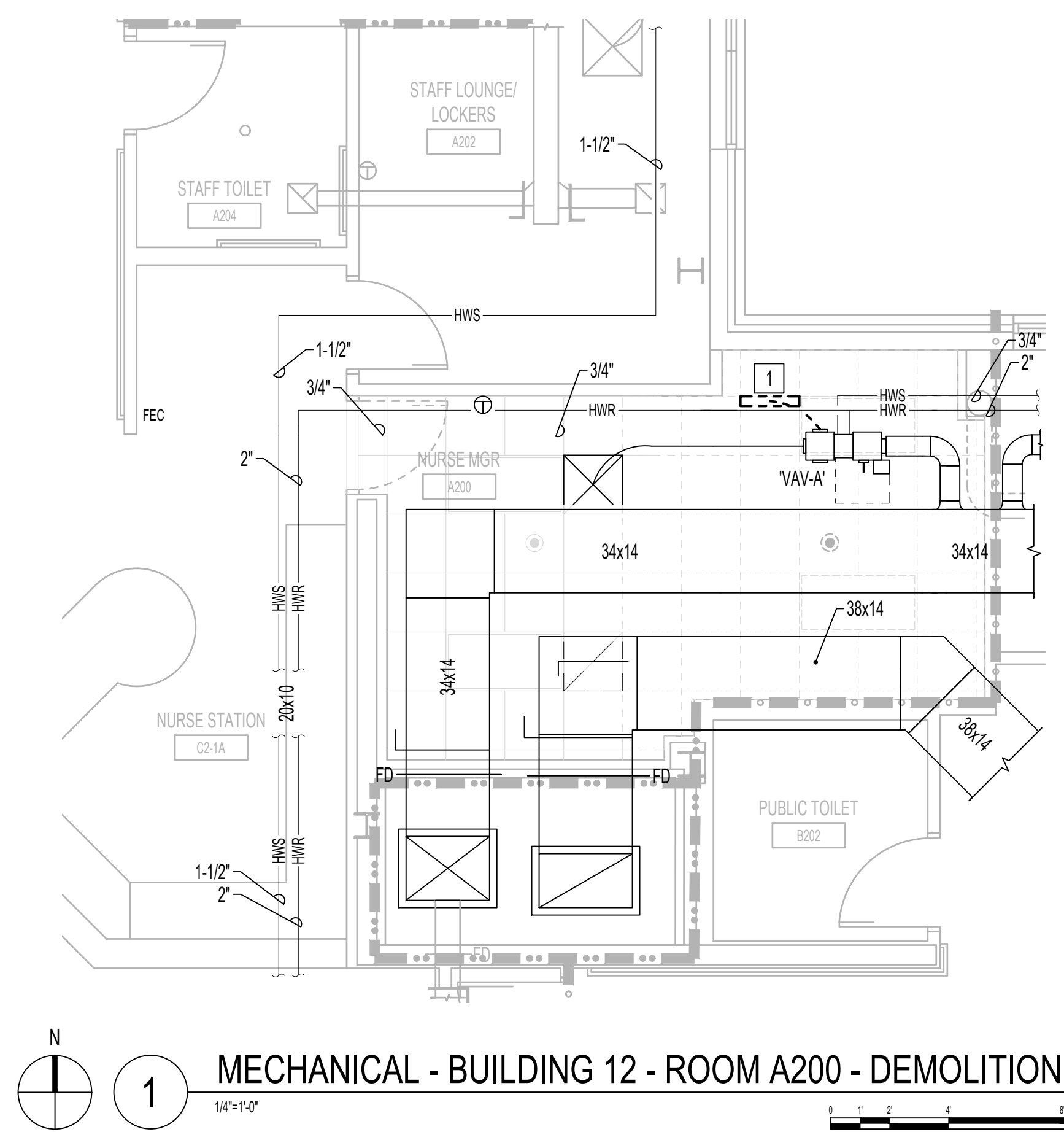
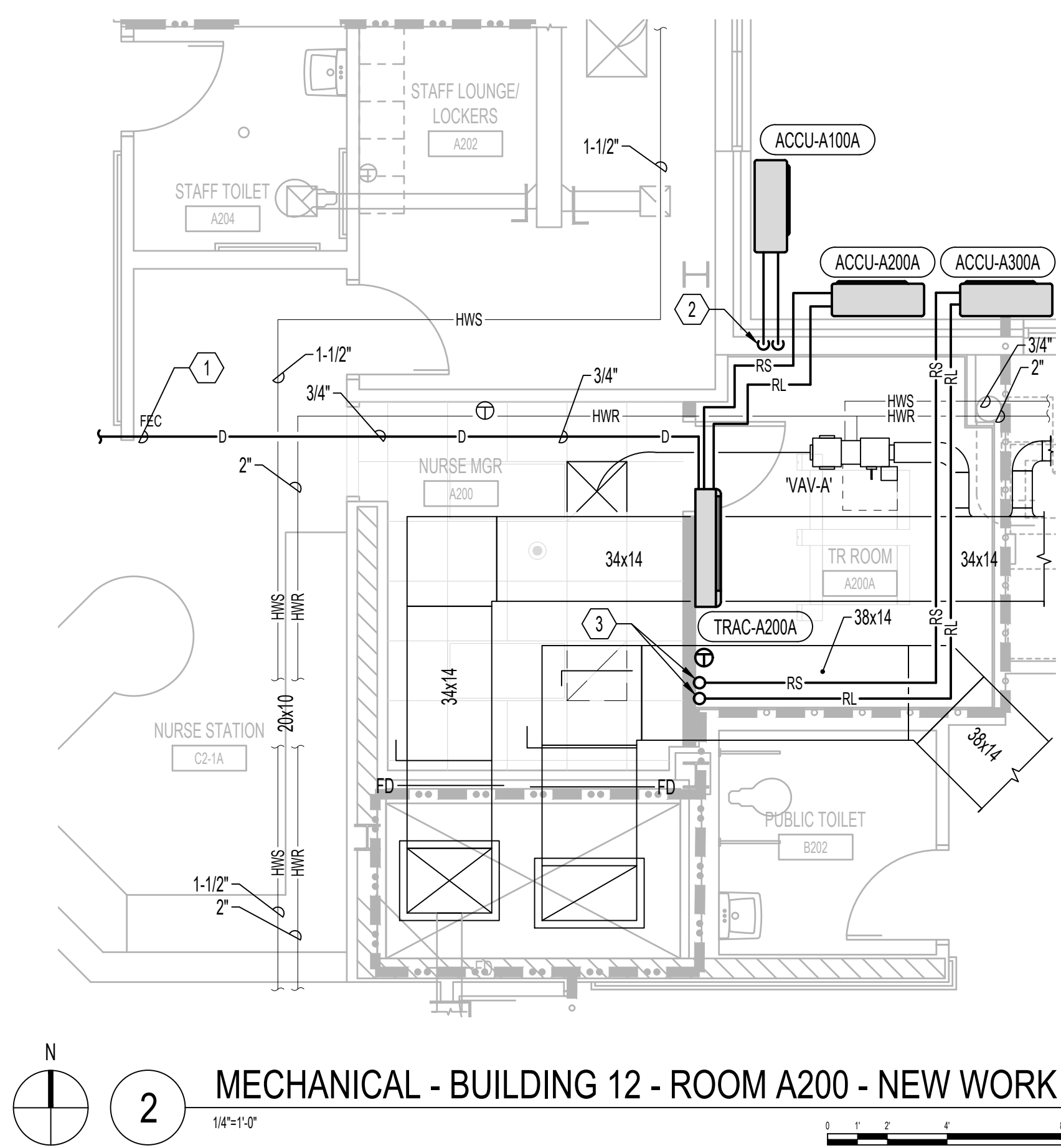
1. REMOVE DUCTWORK, INSULATION, DIFFUSERS, GRILLES, HANGERS, ETC. SHOWN DASHED AND CAP AT MAIN.

MECHANICAL GENERAL NOTES

- A. CLEAN AND SEAL ALL EXISTING DUCTWORK THAT WILL BE REUSED.
- B. PROVIDE BALANCING DAMPER AT ALL SUPPLY DIFFUSER AND RETURN EXHAUST GRILLES WHETHER OR NOT SHOWN ON DRAWINGS.
- C. COORDINATE CEILING MOUNTED GRILLES AND DIFFUSERS WITH SPRINKLER HEADS, LIGHTING FIXTURES AND ALL CEILING MOUNTED DEVICES. REFER TO ARCHITECTURAL CEILING GRID DRAWINGS FOR LOCATIONS.
- D. CEILING ACCESS SHALL BE PROVIDED FOR ALL HVAC EQUIPMENT AND COMPONENTS LOCATED ABOVE THE CEILING THAT REQUIRE OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION.
- E. DURING CONSTRUCTION, PROVIDE TEMPORARY CLOSURES ON ALL SUPPLY AND RETURN AIR DUCT OPENINGS BY SEALING WITH A DISPOSABLE POLYETHYLENE SHEETING TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM OR AIR TERMINAL UNITS.
- F. CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL INSULATION AT EXISTING SHEET METAL DUCTWORK WHICH BECOMES DAMAGED DURING CONSTRUCTION ACTIVITIES AND SHALL REPAIR OR REPLACE ANY INSULATION AT NEW AND OLD DUCT CONNECTIONS AND ANY MISSING OR DAMAGED INSULATION ON REUSED OR EXISTING DUCTWORK.
- G. CONTRACTOR TO REWORK AND REROUTE EXISTING DUCTWORK AND PIPING TO ACCOMMODATE NEW CABLE TRAY. REFER ARCHITECTURAL DRAWINGS FOR EXACT ROUTING.

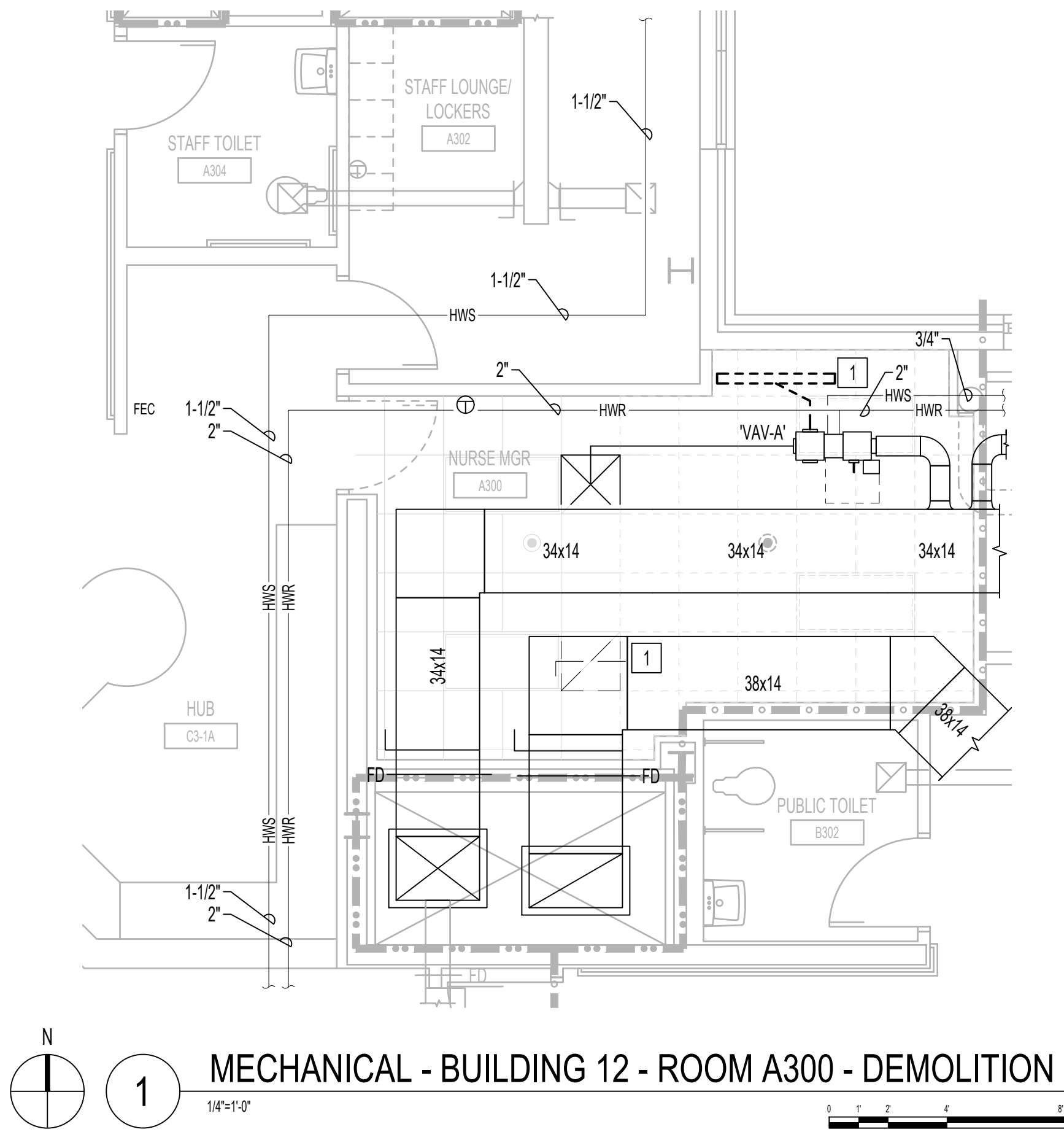
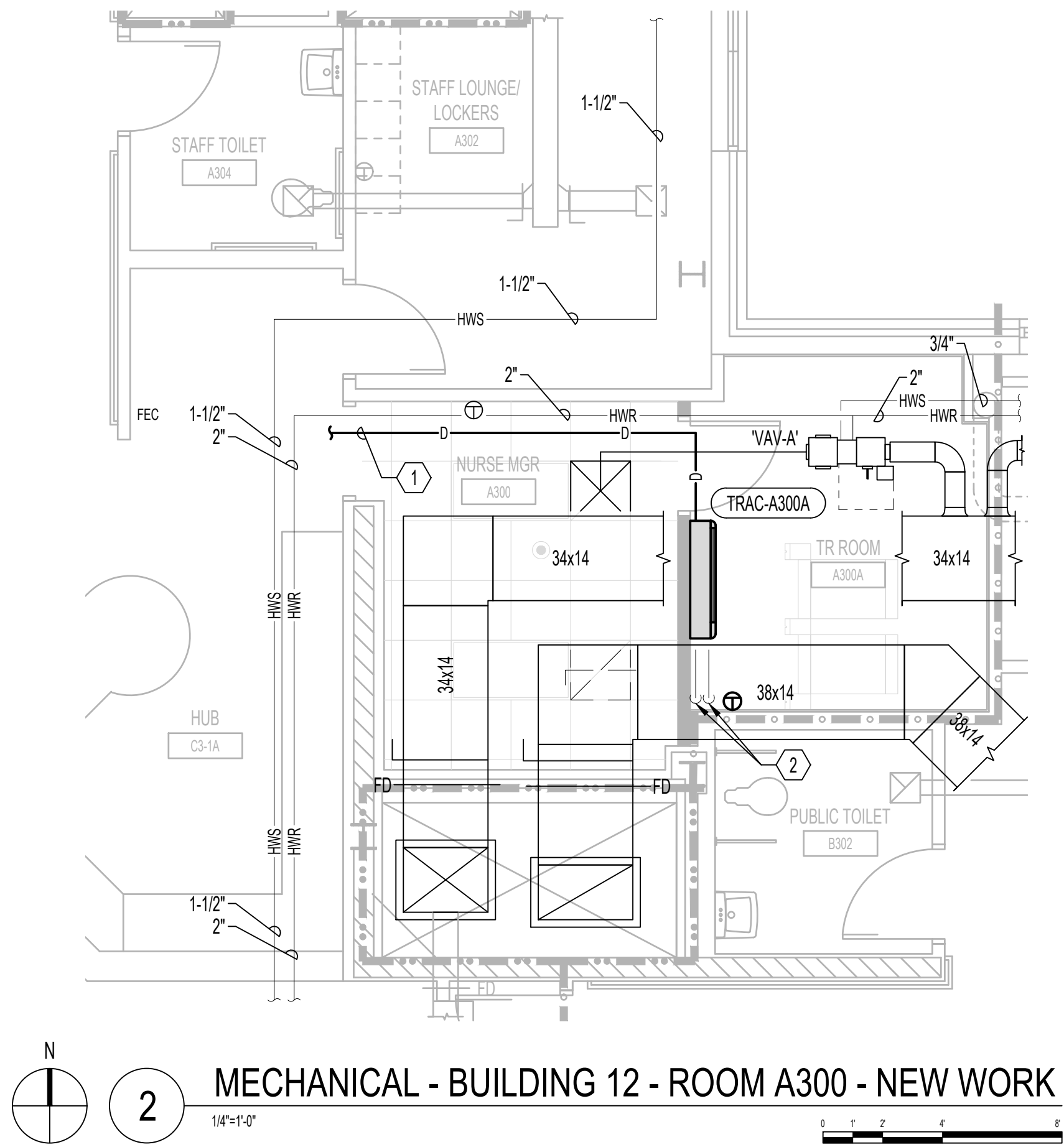
MECHANICAL KEY NOTES

1. NEW 3/4" CONDENSATE DRAIN PIPING TO BE ROUTED TO MOP SINK IN ROOM A211. REFER TO 12-M102 FOR EXACT LOCATION.
2. NEW REFRIGERANT LIQUID AND SUCTION PIPING DOWN TO SERVE 'TRAC-A100A'.
3. NEW REFRIGERANT LIQUID AND SUCTION PIPING UP TO SERVE 'TRAC-A300A'.



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VA FORM 08 - 6231

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VA FORM 08 - 6231



E. CONTRACTOR SHALL PERFORM AN AIRFLOW TEST ON ALL OUTLETS AND INLETS SERVING EXISTING TR SPACES FROM THE EXISTING AIR HANDLING UNITS AND REPORT TO ARCHITECT AND ENGINEER FOR REVIEW.

MECHANICAL DEMOLITION KEY NOTES

1. REMOVE DUCTWORK, INSULATION, DIFFUSERS, GRILLES, HANGERS, ETC. SHOWN DASHED AND CAP AT MAIN.

MECHANICAL GENERAL NOTES

- A. CLEAN AND SEAL ALL EXISTING DUCTWORK THAT WILL BE REUSED.
- B. PROVIDE BALANCING DAMPER AT ALL SUPPLY DIFFUSER AND RETURN/EXHAUST GRILLES WHETHER OR NOT SHOWN ON DRAWINGS.
- C. COORDINATE CEILING MOUNTED GRILLES AND DIFFUSERS WITH SPRINKLER HEADS, LIGHTING FIXTURES AND ALL CEILING MOUNTED DEVICES. REFER TO ARCHITECTURAL CEILING GRID DRAWINGS FOR LOCATIONS.
- D. CEILING ACCESS SHALL BE PROVIDED FOR ALL HVAC EQUIPMENT AND COMPONENTS LOCATED ABOVE THE CEILING THAT REQUIRE OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION.
- E. DURING CONSTRUCTION, PROVIDE TEMPORARY CLOSURES ON ALL SUPPLY AND RETURN AIR DUCT OPENINGS BY SEALING WITH A DISPOSABLE POLYETHYLENE SHEETING TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM OR AIR TERMINAL UNITS.
- F. CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL INSULATION AT EXISTING SHEET METAL DUCTWORK WHICH BECOMES DAMAGED DURING CONSTRUCTION ACTIVITIES AND SHALL REPAIR OR REPLACE ANY INSULATION AT NEW AND OLD DUCT CONNECTIONS AND ANY MISSING OR DAMAGED INSULATION ON REUSED OR EXISTING DUCTWORK.
- G. CONTRACTOR TO REWORK AND REROUTE EXISTING DUCTWORK AND PIPING TO ACCOMMODATE NEW CABLE TRAY. REFER ARCHITECTURAL DRAWINGS FOR EXACT ROUTING.

MECHANICAL KEY NOTES

1. NEW 3/4" CONDENSATE DRAIN PIPING TO BE ROUTED TO MOP SINK IN ROOM A311. REFER TO SHEET 12-M103 FOR EXACT LOCATION.
2. NEW REFRIGERANT LIQUID AND SUCTION PIPING DOWN TO TR A200A.

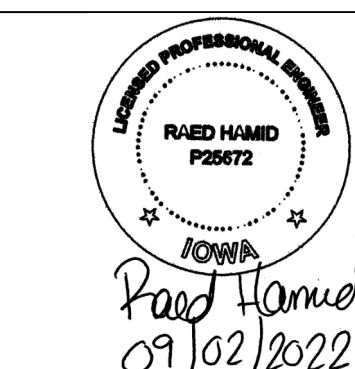
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FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 3	08/09/2022
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Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

Bancroft
BANCROFT ARCHITECTS + ENGINEERS
VA CONTRACT NO. 36C26319D0044
3300 Dundee Road
Northbrook, IL 60062
T: 847.952.9362
www.bancroft-ae.com
BAE PROJECT NO. 18-121

STAMP



Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title
**MECHANICAL - ENLARGED PLAN -
THIRD FLOOR**

Approved: Project Director

Phase
**CONSTRUCTION
DOCUMENTS**

FULLY SPRINKLERED

Project Title
**EHRM INFRASTRUCTURE
UPGRADES**

Location
DES MOINES, IOWA

Issue Date
09/02/2022

Checked
DG

Drawn
IL

Project Number
636A6-21-101

Building Number
1, 2, 3, 4, 5, 6M, 7M, 9, 10,
11, 12, 21, 24, 25, 27, & 28

Drawing Number
12-M403

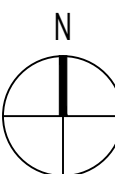
GENERAL NOTES

NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING.

-
- A floor plan of a building with a central corridor. A small square is highlighted in the lower-left section of the plan, with a line pointing to it from the label 'ROOM C000'.

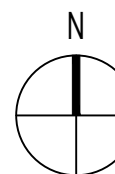
A circle with a vertical line segment from the center to the top edge, labeled 'N'.

NTS

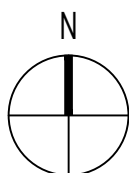
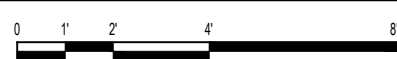
12-E400

EL

1/4"=1'-0"



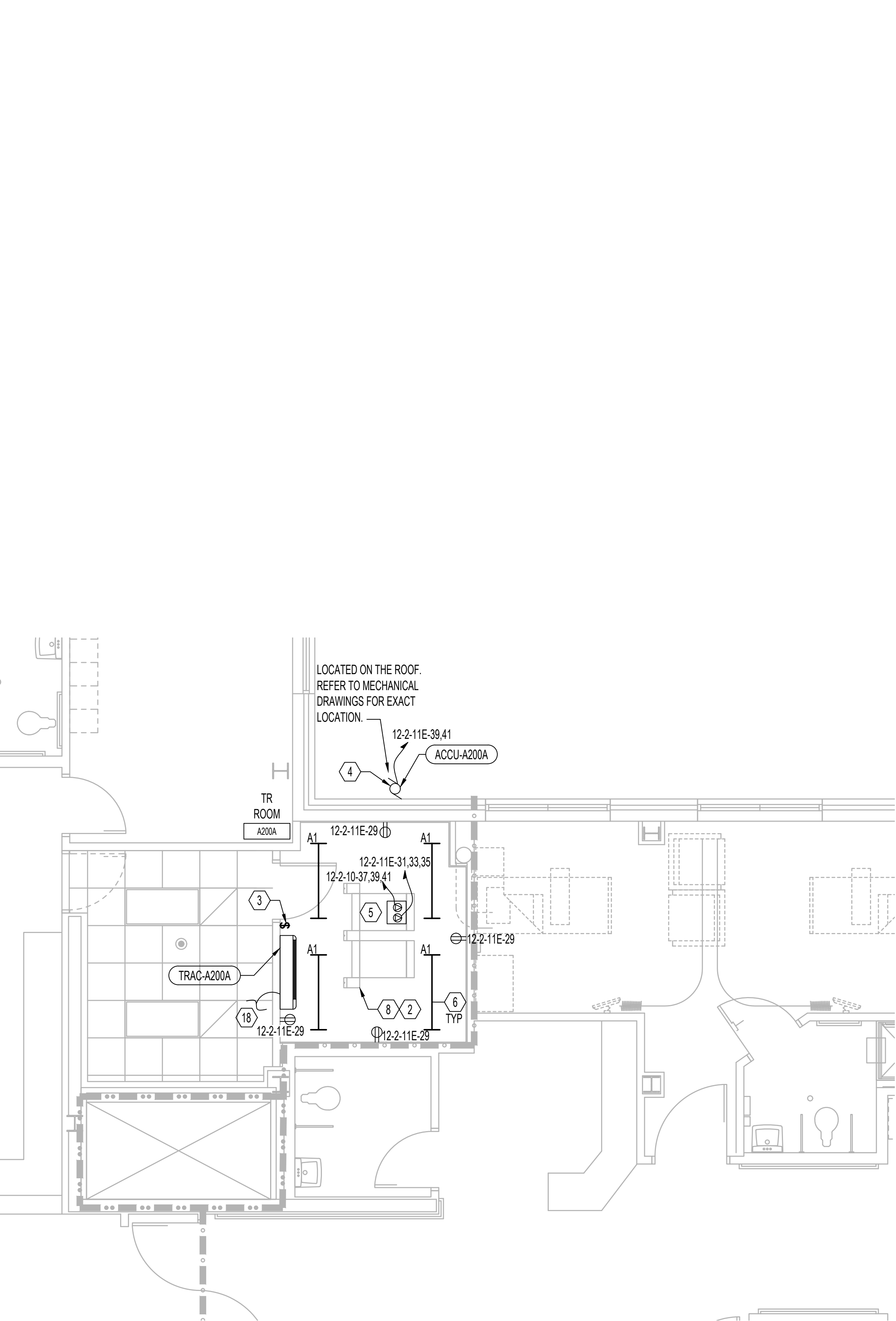
14°=14

 $14^{\circ}=14$ 

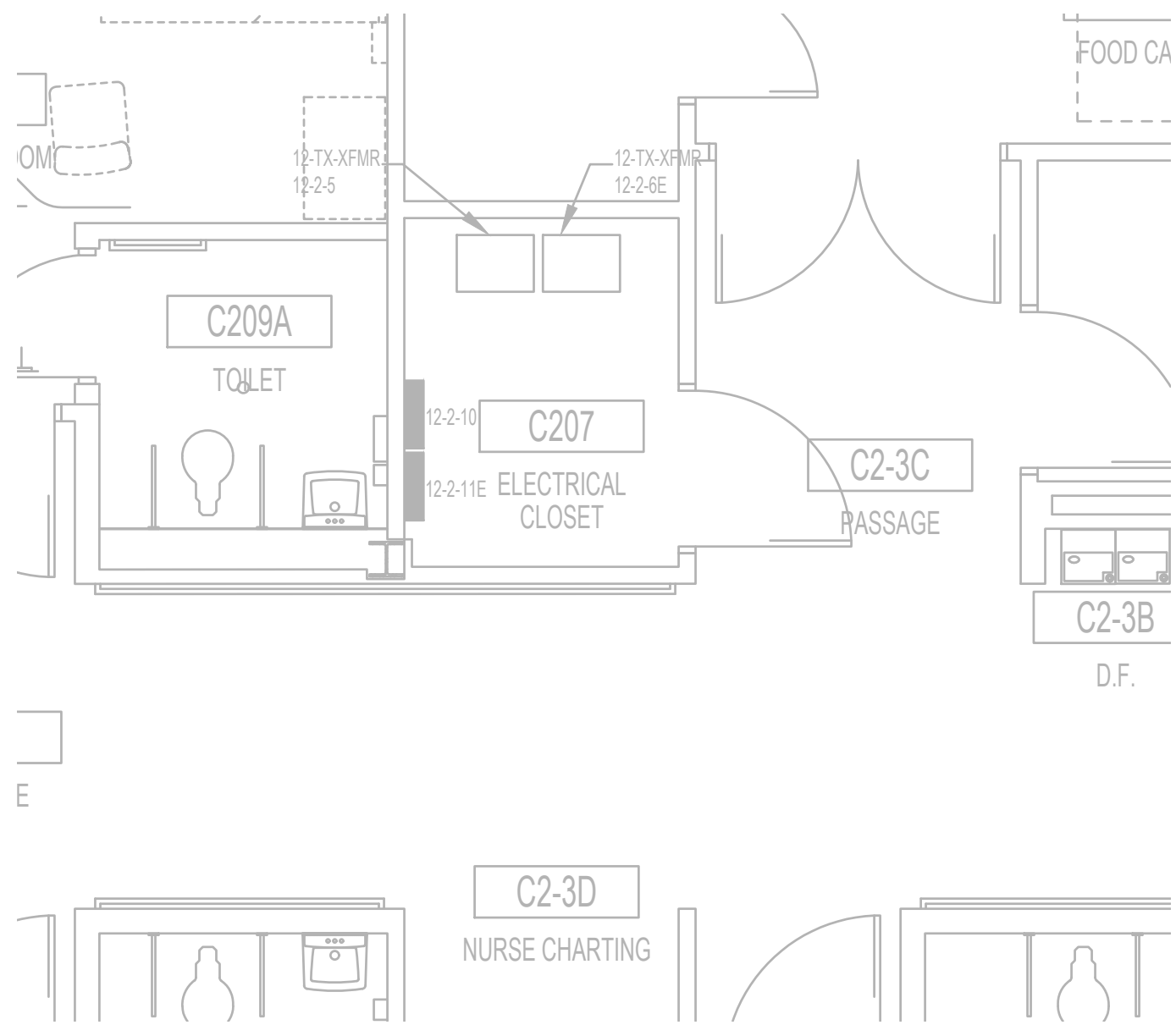
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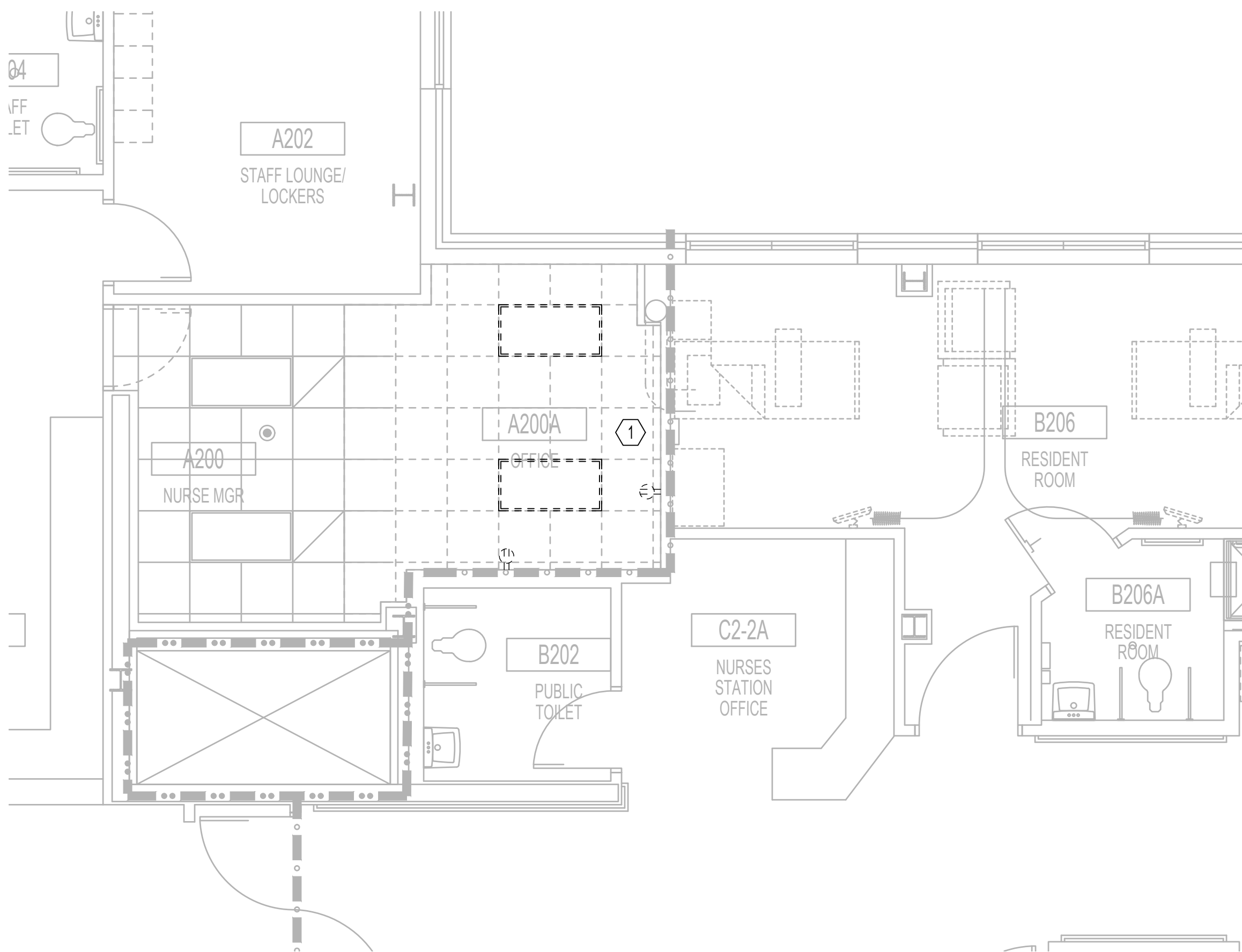
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VA FORM 08 - 6231



2 ELECTRICAL - BUILDING 12 - SECOND FLOOR - PROPOSED
1/4"=1'-0"



3 ELECTRICAL - BUILDING 12 - SECOND FLOOR - ELEC RM C207
1/4"=1'-0"



1 ELECTRICAL - BUILDING 12 - SECOND FLOOR - DEMOLITION
1/4"=1'-0"

ELECTRICAL KEY NOTES

NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING.

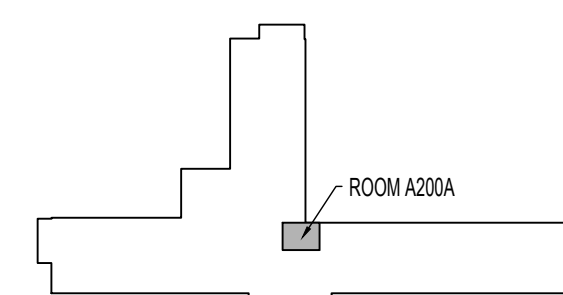
- ALL DATA RACK(S), LIGHTS AND RECEPTACLES SHALL REMAIN ACTIVE UNTIL NEW DATA RACKS ARE INSTALLED AND FUNCTIONING PROPERLY. ONCE NEW TR SPACE IS ACTIVE, CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING EQUIPMENT WITH ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. CONTRACTOR SHALL UTILIZE EXISTING CIRCUITS WHEREVER POSSIBLE.
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- CONTRACTOR SHALL PROVIDE NEW LIGHT SWITCH.
- RUN 2#10+12G IN 3/4" C TO ACCU WITH 20A/2P CIRCUIT BREAKER. DISCONNECT SHALL BE PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL DRAWINGS. PROVIDE WHILE IN USE WEATHER PROOF/OFCI RECEPTACLE WITHIN 25FT OF MECHANICAL UNIT. CONTRACTOR SHALL ACCOMMODATE FOR VOLTAGE DROP.
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GENERAL NOTES

NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING.

- REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR PLANS. REFER TO TECHNOLOGY, MECHANICAL, AND FIRE PROTECTION DRAWINGS FOR EXACT LOCATION OF EQUIPMENT.
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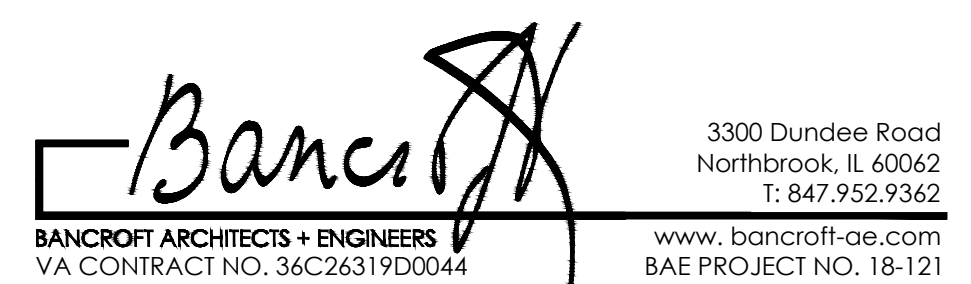
KEY PLAN - BLDG 12 - SECOND FLOOR



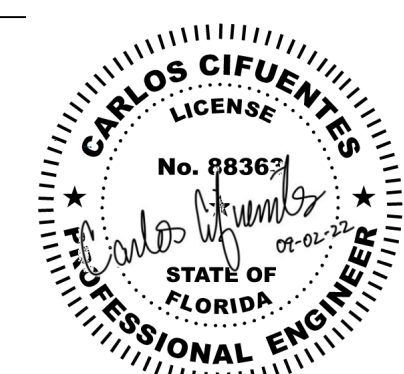
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Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD



STAMP



Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title

ELECTRICAL - ENLARGED PLAN -
SECOND FLOOR

Approved: Project Director

Phase

CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title

EHRM INFRASTRUCTURE
UPGRADES

Location

DES MOINES, IOWA

Issue Date

09/02/2022

Checked

CC

Drawn

FK

Project Number

636A6-21-101

Building Number

1, 2, 3, 4, 5, 6M, 7M, 9, 10,
11, 12, 21, 24, 25, 27, & 28

Drawing Number

12-E402

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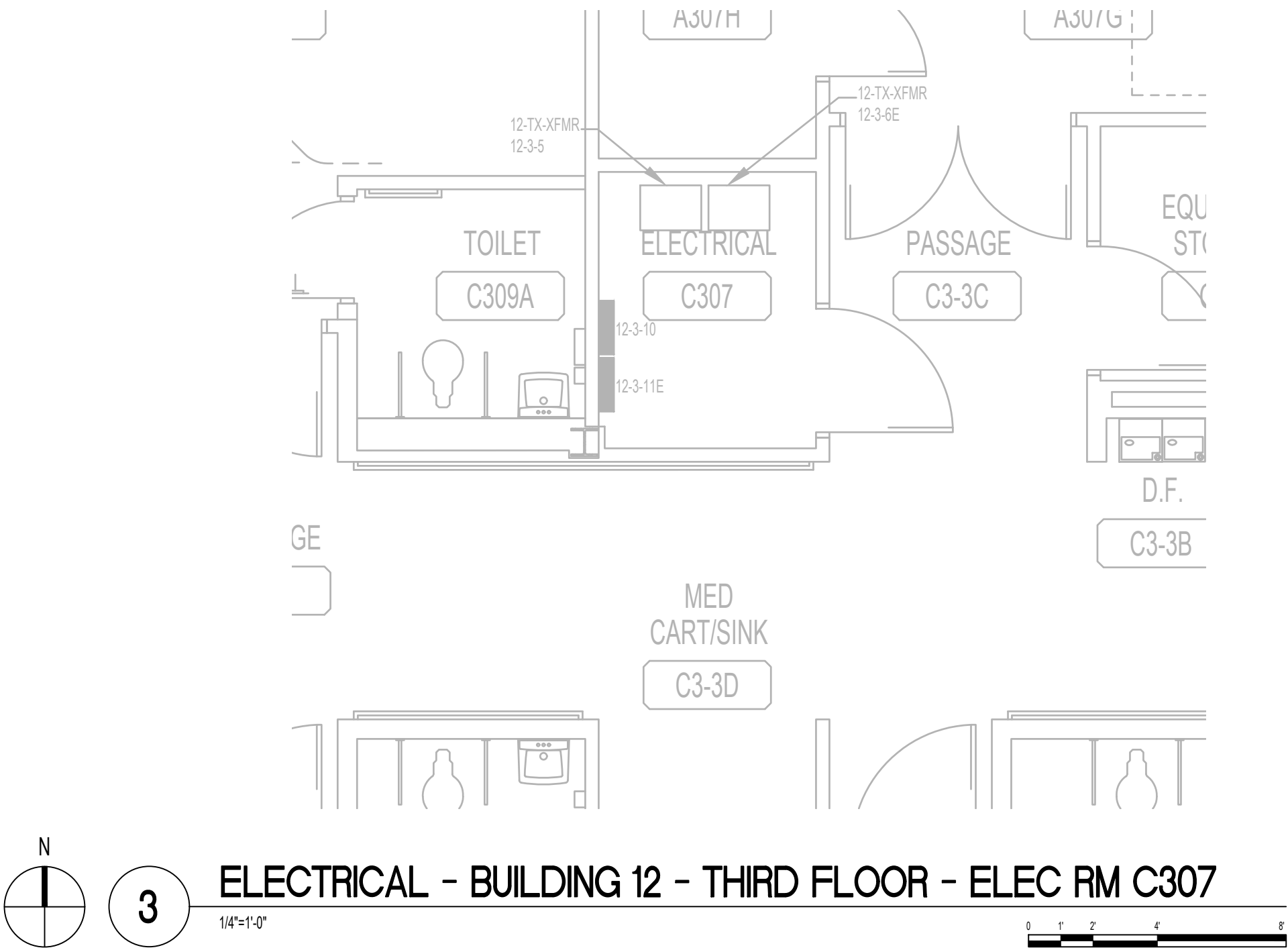
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ELECTRICAL KEY NOTES

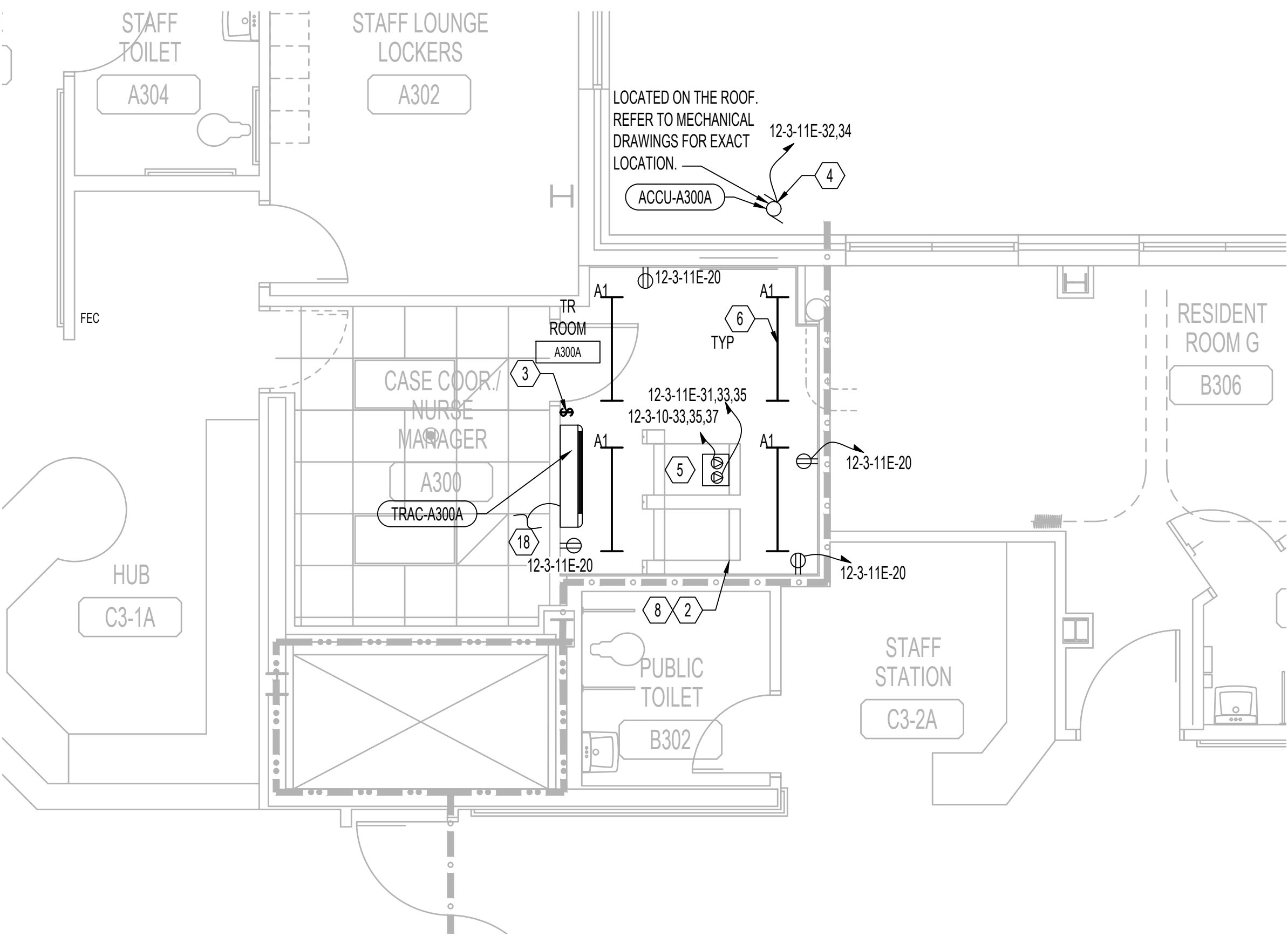
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GENERAL NOTES

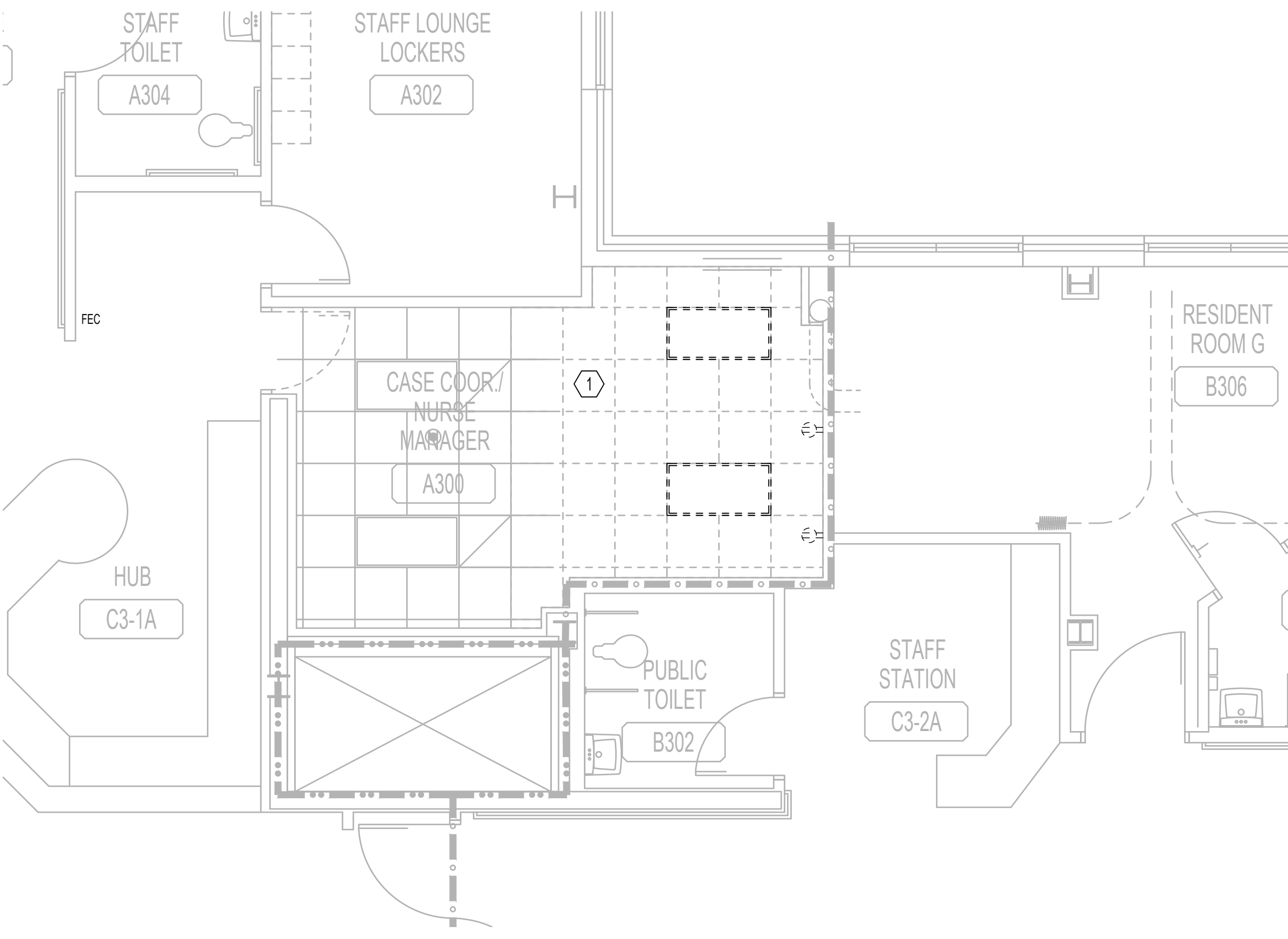
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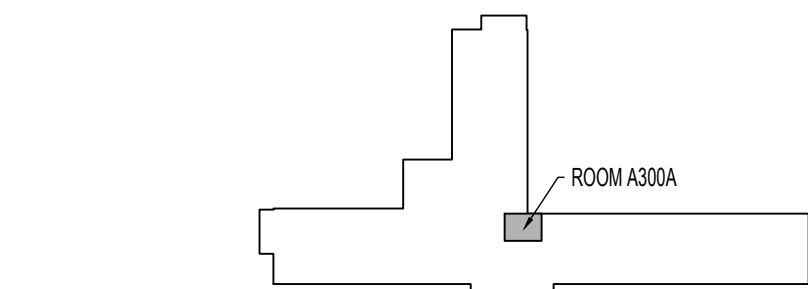
3 ELECTRICAL - BUILDING 12 - THIRD FLOOR - ELEC RM C307



2 ELECTRICAL - BUILDING 12 - THIRD FLOOR - PROPOSED



1 ELECTRICAL - BUILDING 12 - THIRD FLOOR - DEMOLITION

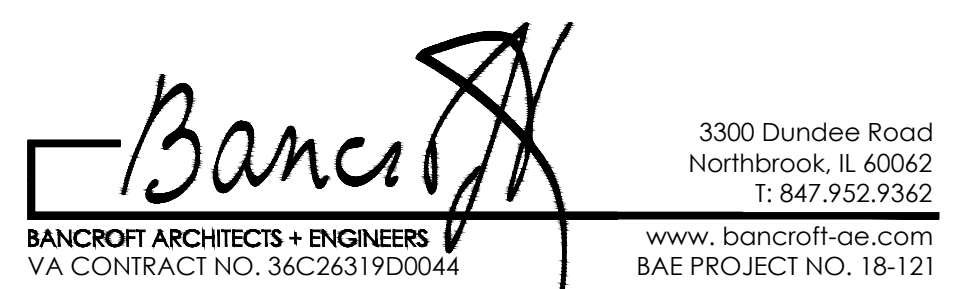


KEY PLAN - BLDG 12 - THIRD FLOOR

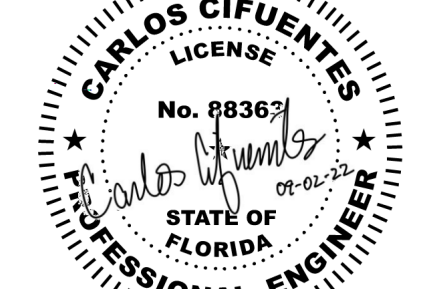
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Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD



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Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title
ELECTRICAL - ENLARGED PLAN -
THIRD FLOOR

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE
UPGRADES

Location
DES MOINES, IOWA

Issue Date
09/02/2022

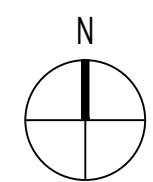
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Project Number
636A6-21-101

Building Number
1, 2, 3, 4, 5, 6M, 7M, 9, 10,
11, 12, 21, 24, 25, 27, & 28

Drawing Number
12-E403

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Project Number 636A6-21-101
Building Number 1, 2, 3, 4, 5, 6M, 7M, 9, 10, 11, 12, 21, 24, 25, 27, & 28
Drawing Number 21-A002

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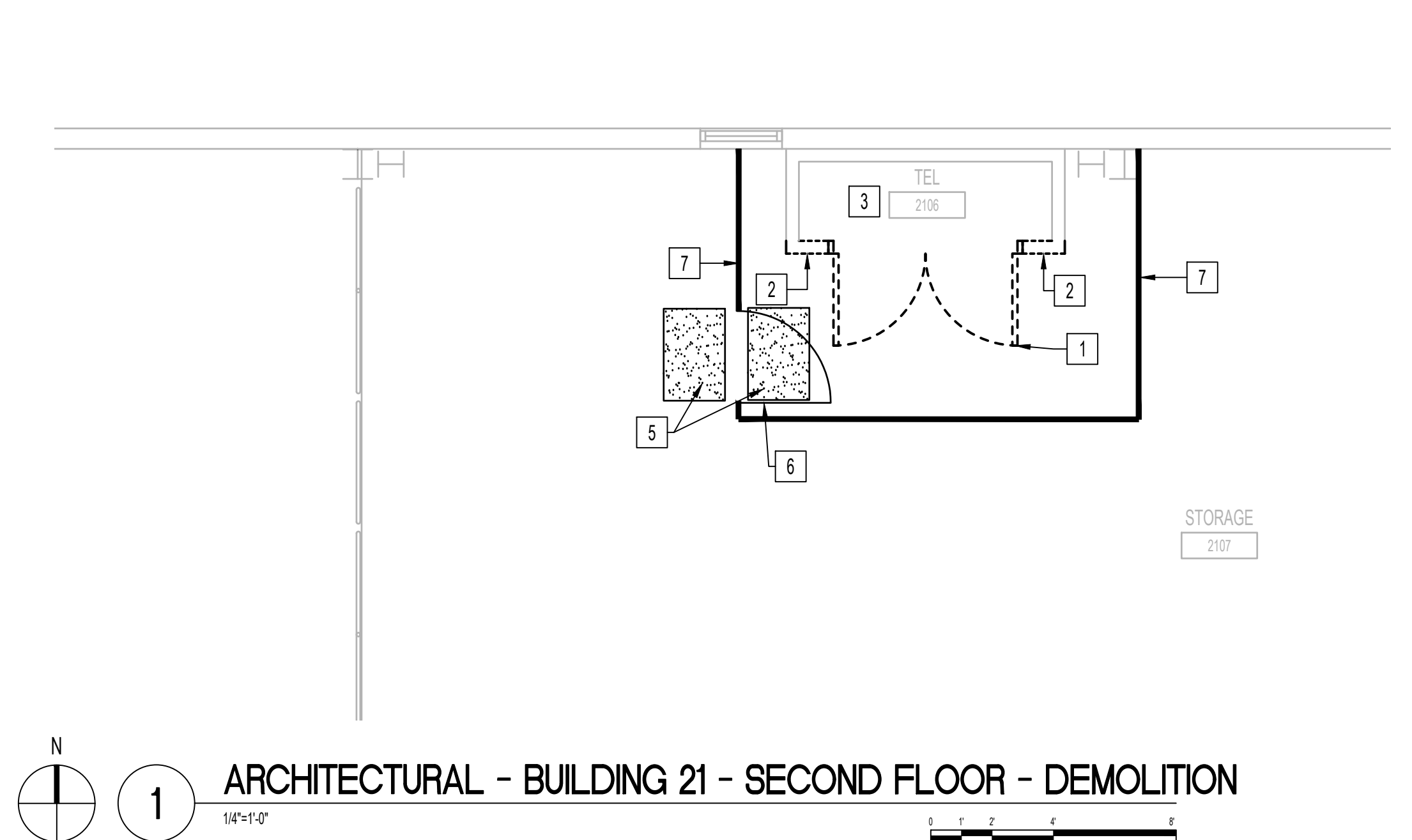
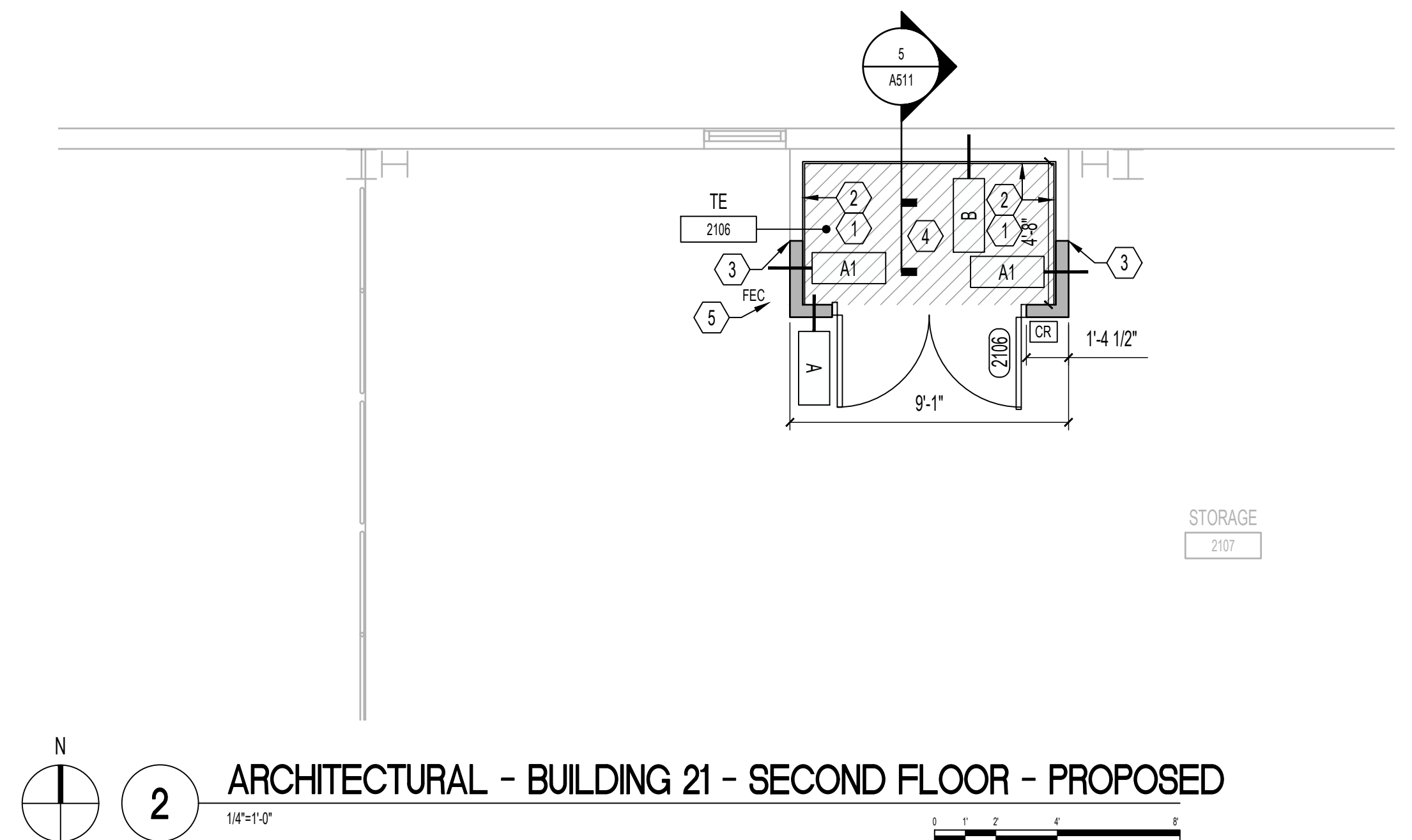
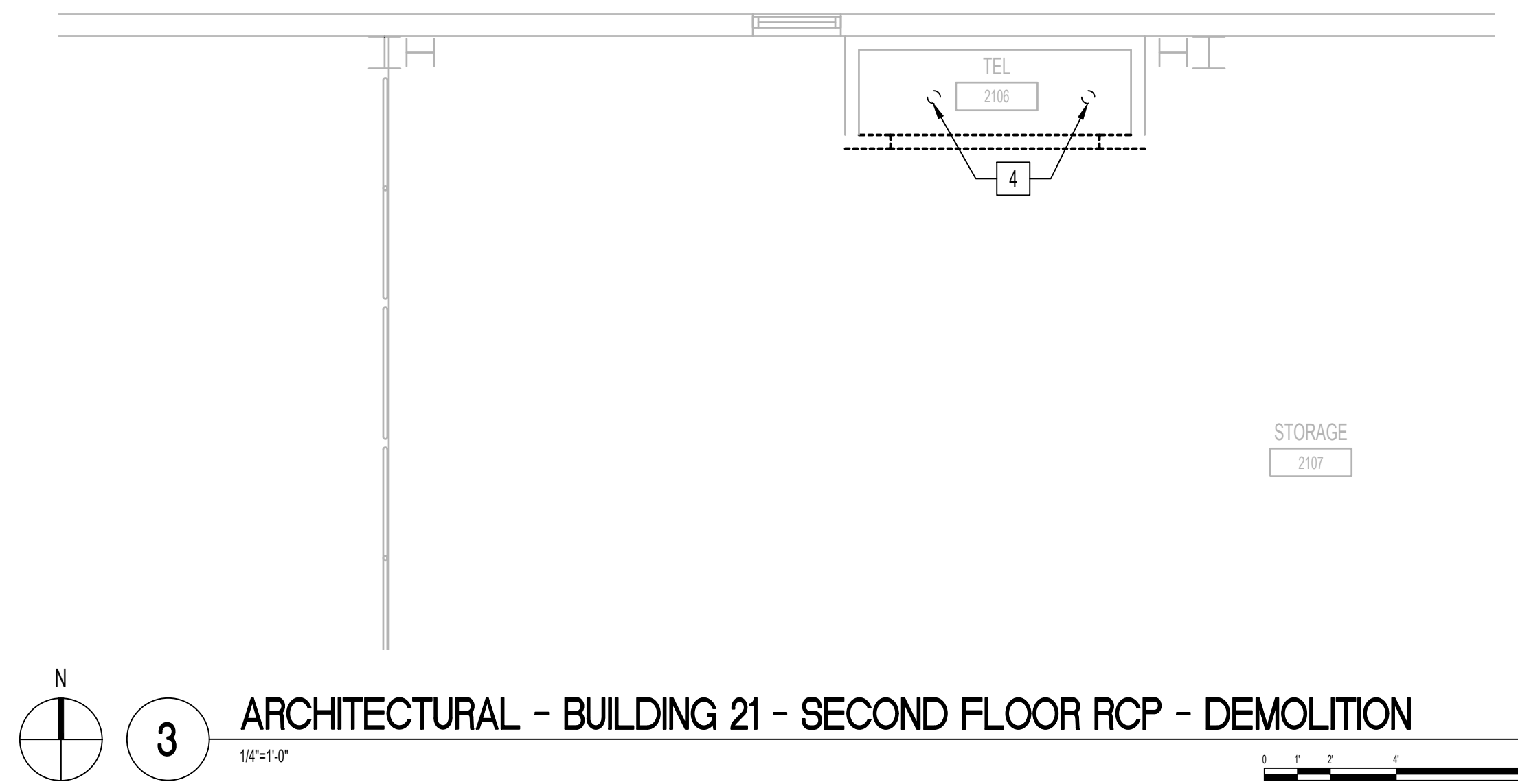
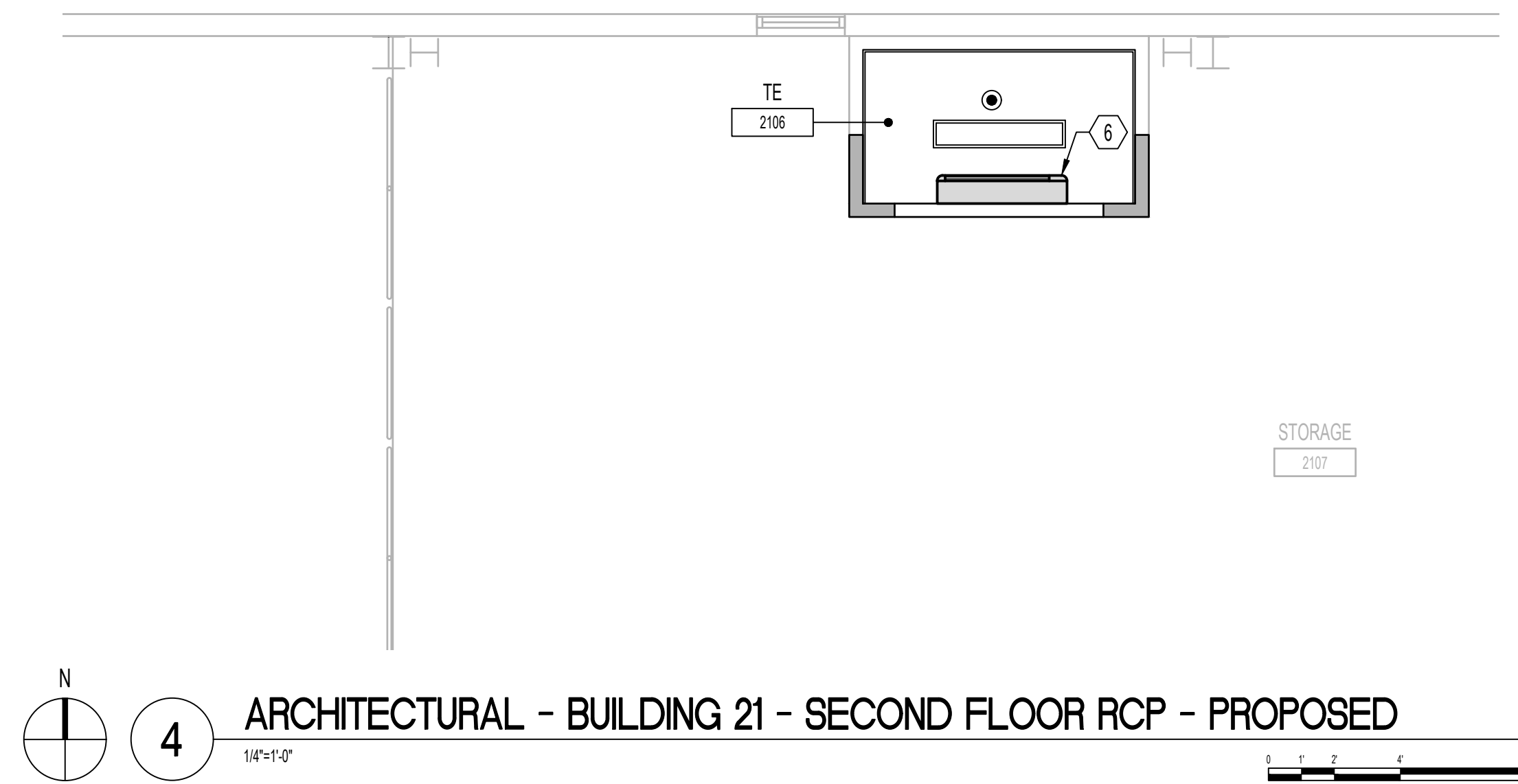
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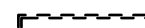

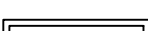



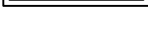










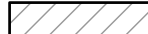

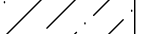
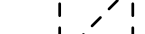




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FLOOR/RCP PLAN LEGEND		DEMOLITION PLAN LEGEND	
 EXISTING CONSTRUCTION	 DENOTES NEW 1' x 4' LIGHT FIXTURE, SEE ELECTRICAL	 EXISTING CONSTRUCTION TO REMAIN	 DENOTES 1' x 4' LIGHT FIXTURE TO BE REMOVED, SEE ELECTRICAL
 DENOTES NEW PARTITION	 DENOTES NEW 2' x 4' LIGHT FIXTURE, SEE ELECTRICAL	 DENOTES BUILDING COMPONENTS TO BE DEMOLISHED (UNO)	 DENOTES 2' x 4' LIGHT FIXTURE TO BE REMOVED, SEE ELECTRICAL
 DENOTES NEW CMU PARTITION	 DENOTES NEW OR RELOCATED SPRINKLER HEAD, SEE FIRE PROTECTION	 DENOTES DOOR TO BE DEMOLISHED	 DENOTES SPRINKLER HEAD TO BE REMOVED, SEE FIRE PROTECTION
 DENOTES NEW DOOR AND FRAME	 DENOTES NEW DUCT FREE SPLIT SYSTEM UNIT, SEE MECHANICAL	 DENOTES FLOOR FINISH TO BE DEMOLISHED TO CONCRETE SUBSTRATE	 DENOTES EXISTING EXHAUST DIFFUSER TO BE REMOVED, SEE MECHANICAL
 DENOTES NEW STATIC DISSIPATIVE TILE (SDT) FLOORING	 DENOTES NEW SUPPLY DIFFUSER, SEE MECHANICAL	 DENOTES CEILING ASSEMBLY TO BE DEMOLISHED	 DENOTES EXISTING SUPPLY DIFFUSER TO BE REMOVED, SEE MECHANICAL
 DENOTES NEW ACT CEILING ASSEMBLY	 DENOTES NEW GYPSUM CEILING ASSEMBLY	 DENOTES DUCTLESS SPLIT SYSTEM UNIT TO BE DEMOLISHED	 DENOTES GYPSUM CEILING ASSEMBLY TO BE DEMOLISHED
 FE DENOTES NEW OR EXISTING FIRE EXTINGUISHER	 CR DENOTES NEW OR EXISTING DUAL AUTHENTICATION CARD READER, SEE TELECOMMUNICATION SECURITY DRAWINGS		
GENERAL NOTES		DEMOLITION COORDINATION NOTES	
NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING IN BLDG 21.		1. DEMOLITION COORDINATION NOTES ARE IN ADDITION TO THE GENERAL DEMOLITION NOTES FOUND ON SHEET G103.	
1. SEE LIMITED ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT FOR SCOPE OF WORK IN EACH TELECOMMUNICATIONS ROOM (TR).		2. SEE CIVIL, FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL, AND INFORMATION TECHNOLOGY DRAWINGS FOR RELATED DISCIPLINE SPECIFIC DEMOLITION NOTES.	
2. SEE ELECTRICAL DRAWINGS FOR TYPICAL TR ROOM ELECTRICAL DEMOLITION.		3. SEE ABATEMENT DRAWINGS FOR ASBESTOS AND LEAD ABATEMENT WORK TO PERFORMED BY ASBESTOS / LEAD ABATEMENT CONTRACTOR.	
3. PROVIDE TEMPORARY PROTECTION AT EXISTING AND NEW TR DOORS DURING CONSTRUCTION.		4. DASHED LINES INDICATE DEMOLITION WORK INCLUDING, BUT NOT LIMITED TO, PARTITIONS, DOORS, WINDOWS, FLOOR AND WALL FINISHES, FIXED MILLWORK AND EQUIPMENT, UNLESS NOTED OTHERWISE. INDIVIDUALLY IDENTIFIED ITEMS ARE FOR FURTHER CLARIFICATION ONLY AND ARE NOT INTENDED TO BE ALL INCLUSIVE. FOR CLARITY, ADDITIONAL BUILDING DEMOLITION ITEMS MAY ALSO BE INDICATED THROUGHOUT THE DRAWINGS.	
4. INSTALL STATIC DISSIPATIVE TILE (SDT) FLOORING AT ALL FLOORS IN TELECOMMUNICATIONS ROOM (TR), SEE FINISH SCHEDULE.		5. THE DRAWINGS DO NOT PURPORT TO SHOW ALL OBJECTS EXISTING WITHIN THE SCOPE OF WORK. EXISTING LAUNDRY, CONFIGURATIONS AND PROPOSED DEMOLITION ARE BASED ON PARTIAL DOCUMENTS FROM PREVIOUS CONSTRUCTION AND LIMITED FIELD OBSERVATION. PORTIONS OF THE EXISTING CONSTRUCTION ARE CONCEALED AND MAY EXPOSE UNFORESEEN CONDITIONS DURING DEMOLITION. ACTUAL CONFIGURATIONS MAY VARY AND CRITICAL DIMENSIONS AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE GC PRIOR TO DEMOLITION.	
5. NO CEILING GRID AND ACoustICAL CEILING TILE IN TR ROOMS.		6. ALL CONSTRUCTION TO REMAIN AFFECTED BY DEMOLITION SHALL BE PATCHED, PLASTERED AND BE PROPERLY MEMBER AND ALIGNED SO AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIR. ALL ADJACENT FLOORS AND CEILING SO AFFECTED BY DEMOLITION SHALL BE PATCHED AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIR.	
6. PATCH EXISTING WALLS TO MATCH NEW TR ROOM FINISH WALLS.			
7. FOR INFORMATION TECHNOLOGY (IT) INFORMATION AND SCOPE OF WORK SEE DESIGN NARRATIVE-BASIS-OF-DESIGN INCLUDED WITH CURRENT SUBMISSION.			
8. VERIFY IN FIELD ALL EXISTING CONDITIONS ILLUSTRATED ON THESE DRAWINGS. CONSTRUCTION DRAWINGS HAVE BEEN DEVELOPED REFERRING AS-BUILT DRAWINGS PROVIDED BY THE VA AND FIELD VERIFICATION CONDUCTED THROUGH VISUAL INVESTIGATION.			
9. FOR NON-ARCHITECTURAL WORK, SEE FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL, AND INFORMATION TECHNOLOGY DRAWINGS FOR WORK BEING PERFORMED.			
10. ALL EXISTING WALLS WITH NEW TR ROOM SHALL HAVE CONTINUOUS FIRE RESISTANT SEALANT ALONG TOP AND BOTTOM.			
 FLOOR PLAN KEY NOTES		 DEMOLITION KEY NOTES	
NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING IN BLDG 21.		NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING IN BLDG 21.	
1. 4x8" @ GRADE 3/4" GRADE SIZE PLYWOOD BACKBOARD FOR SERVICE PROVIDER / SURVEYOR / VIDEO/EIT; AROUND THE WALLS OF THE TELECOMMUNICATIONS ROOMS (TR) AS SHOWN.		1. DEMOLISH EXISTING DOOR AND HARDWARE. REMOVE DOOR FRAME IN ITS ENTIRETY.	
2. BEFORE INSTALLING PLYWOOD BACKBOARD, GYPSUM WALLBOARD TO BE PATCHED/REPAIRED AND PROVIDE ONE (1) COAT OF PRIMER AND TWO (2) COATS OF PAINT. PAINT TO BE SHERWIN WILLIAMS OR VA APPROVED EQUAL, WITH REMAINING PAINT TO BE TURNED OVER TO VA UPON COMPLETION OF JOB.		2. DEMOLISH EXISTING PARTITION CORNER TO CORNER INCLUDING ALL FRAMING, BRACING, AND SUPPORTS.	
3. NEW INFILL WALLS TO BE PATCHED / REPAIRED WHERE JOINING / MEETING EXISTING WALLS. PROVIDE ONE (1) COAT OF PRIMER AND TWO (2) COATS OF PAINT AT NEW INFILL WALLS. FINISH COLOR TO MATCH EXISTING. PAINT TO BE SHERWIN WILLIAMS OR VA APPROVED EQUAL, WITH REMAINING PAINT TO BE TURNED OVER TO VA UPON COMPLETION OF JOB.		3. REMOVE IN THEIR ENTIRETY ALL EXISTING WALL-MOUNTED ITEMS. COORDINATE ITEM DISPLACEMENT WITH VA.	
4. INSTALL FIRE RATED PLYWOOD SUB FLOORING AND STATIC DISSIPATIVE TILE (SDT) FLOORING IN TR CLOSET. SEE ROOM FINISH SCHEDULE FOR MORE INFORMATION.		4. REMOVE EXISTING LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.	
5. NEW FIRE EXTINGUISHERS TO SERVICE NEW TR ROOM TO BE ABC CLEAN AGENT FIRE EXTINGUISHER WITH SEMI-RECESSED CABINET.		5. SUPPLY AND INSTALL WALK OFF MAT(S).	
6. NEW DUCT FREE SPLIT SYSTEM UNIT, SEE MECHANICAL. DRAWINGS FOR MORE INFORMATION.		6. SUPPLY AND INSTALL TEMPORARY DOOR.	
		7. SUPPLY AND INSTALL TEMPORARY MELAMINE COATED MDF BARRIER. REFER TO 7A511 FOR TEMPORARY BARRIER ASSEMBLY.	


X	DEMOLITION KEY NOTES
NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING IN BLDG 21.	
1.	DEMOLISH EXISTING DOOR AND HARDWARE. REMOVE DOOR FRAME IN ITS ENTIRETY.
2.	DEMOLISH EXISTING PARTITION CORNER TO CORNER INCLUDING ALL FRAMING, BRACIN AND SUPPORTS.
3.	REMOVE IN THEIR ENTIRETY ALL EXISTING WALL-MOUNTED ITEMS. COORDINATE ITEM DISPLACEMENT WITH THE VA.
4.	REMOVE EXISTING LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
5.	SUPPLY AND INSTALL WALK OFF MAT(S).
6.	SUPPLY AND INSTALL TEMPORARY DOOR.
7.	SUPPLY AND INSTALL TEMPORARY MELAMINE COATED MDF BARRIER. REFER TO 7/AS1/ FOR TEMPORARY BARRIER ASSEMBLY.



ISSUE FOR BID	09/02/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 3	08/09/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 2	06/27/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION + MOD 2	06/10/2022
FINAL CONSTRUCTION DOCUMENTS SUBMISSION	03/28/2022
100% CONSTRUCTION DOCUMENTS SUBMISSION	03/14/2022
95% CONSTRUCTION DEVELOPMENT SUBMISSION	02/09/2022
65% DESIGN DEVELOPMENT SUBMISSION	12/11/2021
35% DESIGN DEVELOPMENT SUBMISSION	10/07/2021
Revisions:	Date:

[illegible]

ARCHITECT/ENGINEER OF RECORD



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BANCROFT ARCHITECTS • ENGINEERS
VA CONTRACT NO. 36C26319D0044

www.bancroft-ae.com
BAE PROJECT NO. 18-121

Office of
Construction
and Facilities
Management

VA | U.S. Department
of Veterans Affairs

<div>Drawing Title</div> <div>ARCHITECTURAL - ENLARGED PLAN - SECOND FLOOR</div>
<div>Approved: Project Director</div>

Phase	CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED

Project Title		
EHRM INFRASTRUCTURE UPGRADES		
Location		
DES MOINES, IOWA		
Issue Date	Checked YH/MG	Drawn MG/YH
09/02/2022		

Project Number 636A6-21-101
Building Number 1, 2, 3, 4, 5, 6M, 7M, 9, 10, 11, 12, 21, 24, 25, 27, & 28
Drawing Number 21-A402

THE FIRE PROTECTION CONSTRUCTIONS ARE CONCEPTUAL. FOR GENERAL INFORMATION ONLY AND SHALL NOT BE PROVIDED AS FINAL DESIGN OR INSTALLATION DOCUMENTS. THE SPRINKLER DESIGN AND INSTALLATION SHALL BE THE RESPONSIBILITY OF THE DESIGN BUILD FIRE PROTECTION CONTRACTOR. THIS INCLUDES THE RELOCATION OF SPRINKLER MAINS, BRANCH PIPING AND HEADS AS NECESSARY FOR THE NEW DESIGN. REFER TO SPECIFICATION FOR DESIGN CRITERIA.

DESIGN TO BE IN ACCORDANCE WITH THE E V/A FIRE PROTECTION DESIGN MANUAL, DATED JUNE 1, 2021.

CONTRACTOR TO PROTECT EXISTING HEADS FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.

CONTRACTOR TO UTILIZE EXISTING BRANCH LINES, CROSS MAINS, AND FEED MAINS, SERVING NEW SPRINKLER LOCATIONS WITH MODIFIED ARMORER CONNECTIONS FED FROM EXISTING OUTLET. SHOW ALL PIPING ON SHOP DRAWING SUBMITTAL.


CONTRACTOR TO TURN VERTICAL POSITION OF BRANCH 90 DEGREE FITTING FROM FACING DOWNWARD TO UPWARD AND INSTALL NEW UPRIGHT AUTOMATIC SPRINKLER HEAD TO MAINTAIN FIRE SUPPRESSION PIPING ACTIVE DURING THE CONSTRUCTION. AT THE CONCLUSION OF THE CONSTRUCTION, REVERSE THE 90 DEGREE FITTING TO ITS ORIGINAL CONFIGURATION, AND PENDENT AUTOMATIC SPRINKLER HEADS WILL BE INSTALLED, WHERE REQUIRED.

AT LOCATIONS WHERE THE EXISTING AUTOMATIC SPRINKLERS ARE REMOVED, RELOCATED, OR RE-INSTALLED, ONLY NEW AUTOMATIC SPRINKLER HEADS SHALL BE USED. NO EXISTING AUTOMATIC SPRINKLER HEADS SHALL BE RE-USED, IN ACCORDANCE WITH THE NFPA #13 REQUIREMENTS.

1. EXISTING CONDITION: NO CEILING
2. EXISTING CONDITION: LAY - IN TILE TO BE REMOVED BY GENERAL CONTRACTOR
3. EXISTING CONDITION: LAY - IN TILE TO REMAIN
4. EXISTING CONDITION: LAY - IN TILE TO BE REMOVED AND REPLACED WITH NEW LAY-IN TILE CEILING BY GENERAL CONTRACTOR
5. EXISTING CONDITION: PLASTER CEILING - TO BE REMOVED BY GENERAL CONTRACTOR
6. EXISTING AUTOMATIC SPRINKLER HEAD - TO REMAIN
7. EXISTING AUTOMATIC SPRINKLER HEAD - TO BE REMOVED
8. EXISTING AUTOMATIC SPRINKLER HEAD LOCATION - TO BE CHANGED TO NEW UPRIGHT HEAD
9. EXISTING AUTOMATIC SPRINKLER LOCATION - TO BE RELOCATED WITH NEW AUTOMATIC SPRINKLER HEAD OF SAME TYPE
10. EXISTING AUTOMATIC SPRINKLER LOCATION - TO BE RELOCATED WITH NEW SEMI-RECESSED AUTOMATIC SPRINKLER HEAD
11. NO AUTOMATIC SPRINKLER HEAD IN THIS LOCATION
12. NEW ROOM/CEILING CONFIGURATION WILL REQUIRE ADJUSTMENT TO EXISTING AUTOMATIC SPRINKLER LAYOUT IN FIELD.
13. EXISTING AUTOMATIC SPRINKLER TO BE REMOVED AND REPLACED WITH NEW AUTOMATIC SPRINKLER HEAD OF SAME TYPE AFTER CEILING IS REPLACED
14. EXISTING AUTOMATIC SPRINKLER TO BE REMOVED AND REPLACED WITH NEW UPRIGHT A/S HEAD

1. NO CEILING
2. LAY-IN TILE REMOVED BY GENERAL CONTRACTOR
3. EXISTING LAY-IN TILE TO REMAIN
4. NEW LAY IN TILE CEILING BY GENERAL CONTRACTOR.
5. NEW PLASTER CEILING BY GENERAL CONTRACTOR
6. EXISTING AUTOMATIC SPRINKLER HEAD - TO REMAIN
7. EXISTING AUTOMATIC SPRINKLER BRANCH CAPPED
8. EXISTING AUTOMATIC SPRINKLER HEAD - TO BE CHANGED TO NEW UPRIGHT HEAD
9. EXISTING AUTOMATIC SPRINKLER LOCATION - TO BE RELOCATED WITH AUTOMATIC SPRINKLER HEAD OF SAME TYPE
10. EXISTING AUTOMATIC SPRINKLER LOCATION - TO BE RELOCATED WITH NEW SEMI-RECESSED AUTOMATIC SPRINKLER HEAD
11. NEW AUTOMATIC SPRINKLER HEAD - UPRIGHT STYLE
12. NEW ROOM/CEILING CONFIGURATION WILL REQUIRE ADJUSTMENT TO EXISTING AUTOMATIC SPRINKLER LAYOUT IN FIELD.
13. EXISTING AUTOMATIC SPRINKLER TO BE REMOVED AND REPLACED WITH NEW AUTOMATIC SPRINKLER HEAD OF SAME TYPE AFTER CEILING IS REPLACED
14. EXISTING AUTOMATIC SPRINKLER TO BE REMOVED AND REPLACED WITH NEW UPRIGHT A'S HEAD

CONSULTANT

 **BANCROFT ARCHITECTS + ENGINEERS**
VA CONTRACT NO. 36C26319D0044

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www.bancroft-ae.com
BAE PROJECT NO. 18-121



 Raed Hamid

 09/02/2022

VA | U.S. Department
of Veterans Affairs

Approved: Project Director

FULLY SPRINKLERED

Location	DES MOINES, IOWA
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Issue Date
09/02/2022

Checked	JPK
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Drawn JV	
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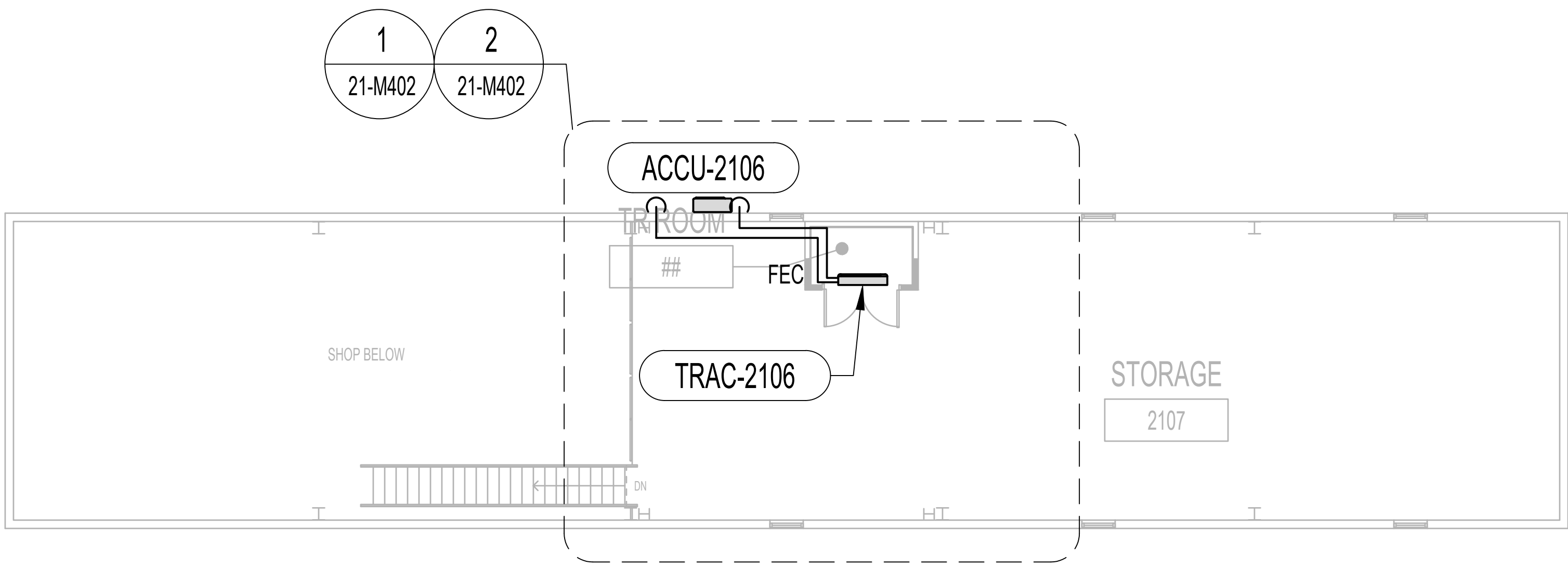
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1, 2, 3, 4, 5, 6M, 7M, 9, 10,
11, 12, 21, 24, 25, 27, & 28

Drawing Number

21-FP402

MECHANICAL GENERAL NOTES

- A. SEE ENLARGED TELECOMMUNICATION ROOM MECHANICAL PLANS PER CIRCLE TAG DESIGNATIONS.
- B. SEE COMBINED OVERALL FLOOR AND ROOF PLANS FOR SPLIT SYSTEM AIR COOLED CONDENSING UNIT (ACCU) LOCATIONS AND PIPING ROUTES.

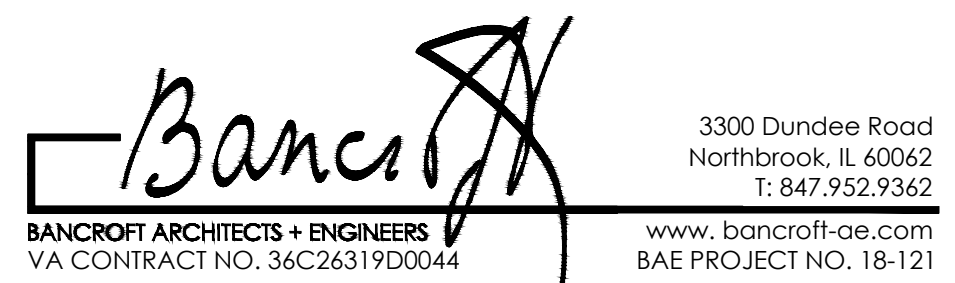


1 MECHANICAL - BUILDING 21 - SECOND FLOOR - OVERALL
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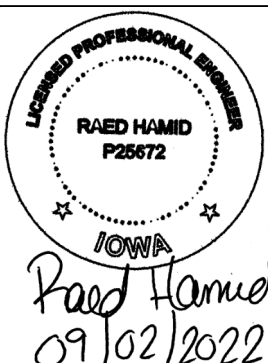
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FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 2	06/27/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION + MOD 2	06/10/2022
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Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD



STAMP



Office of
Construction
and Facilities
Management



Drawing Title
MECHANICAL - BUILDING 21 -
SECOND FLOOR - OVERALL

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE
UPGRADES

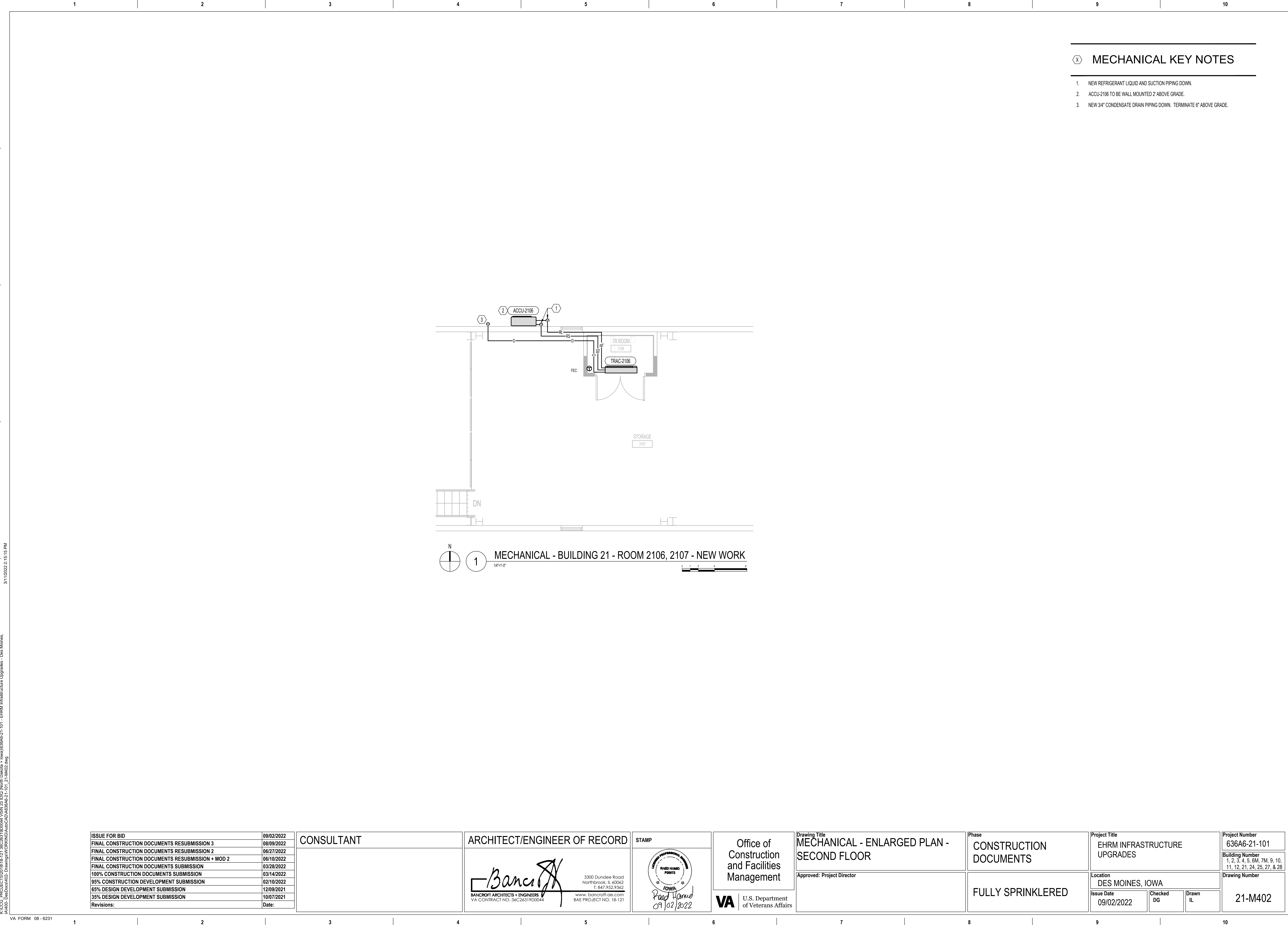
Location
DES MOINES, IOWA

Issue Date
09/02/2022

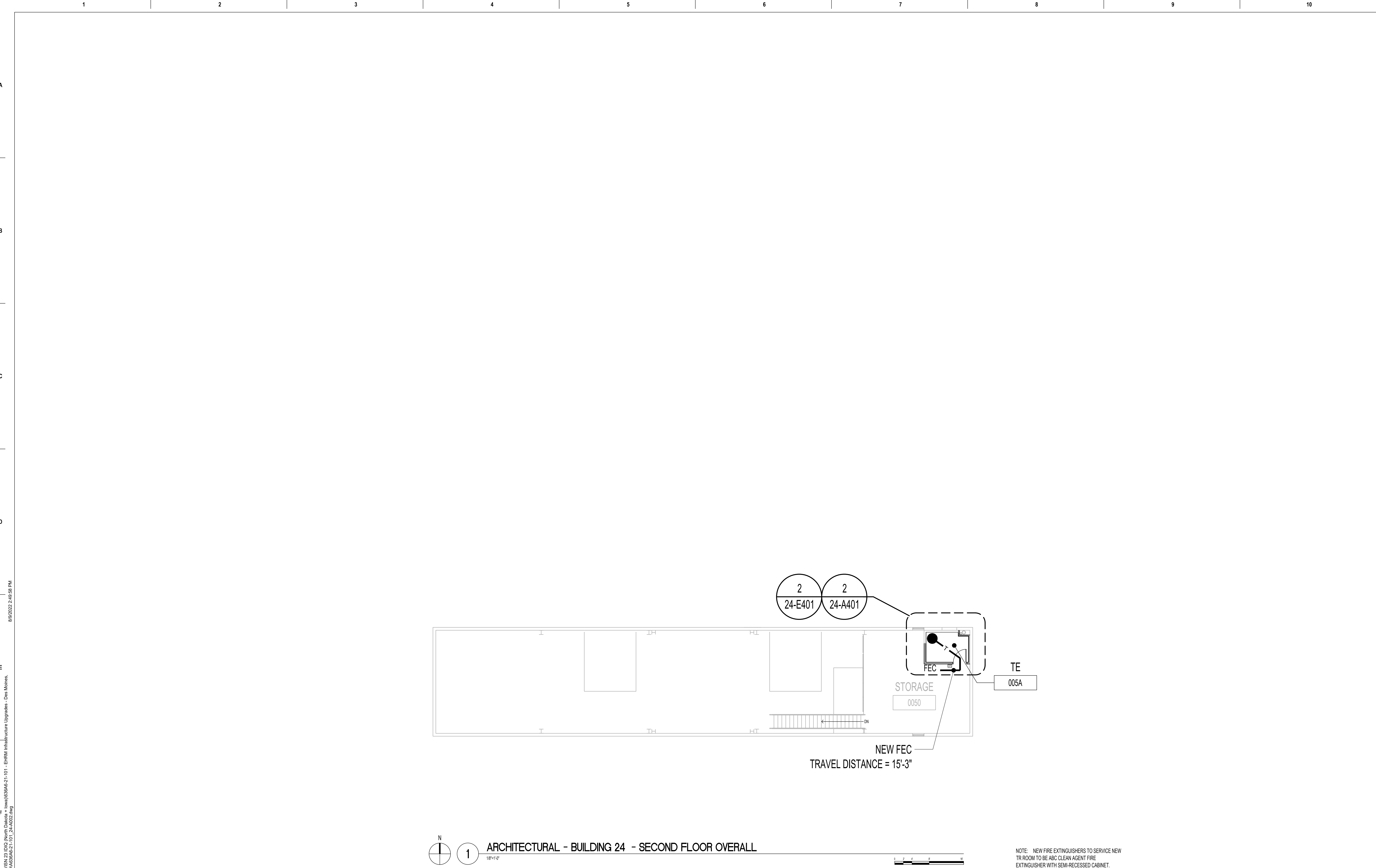
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Drawn
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Project Number
636A6-21-101
Building Number
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11, 12, 21, 24, 25, 27, & 28
Drawing Number
21-M102

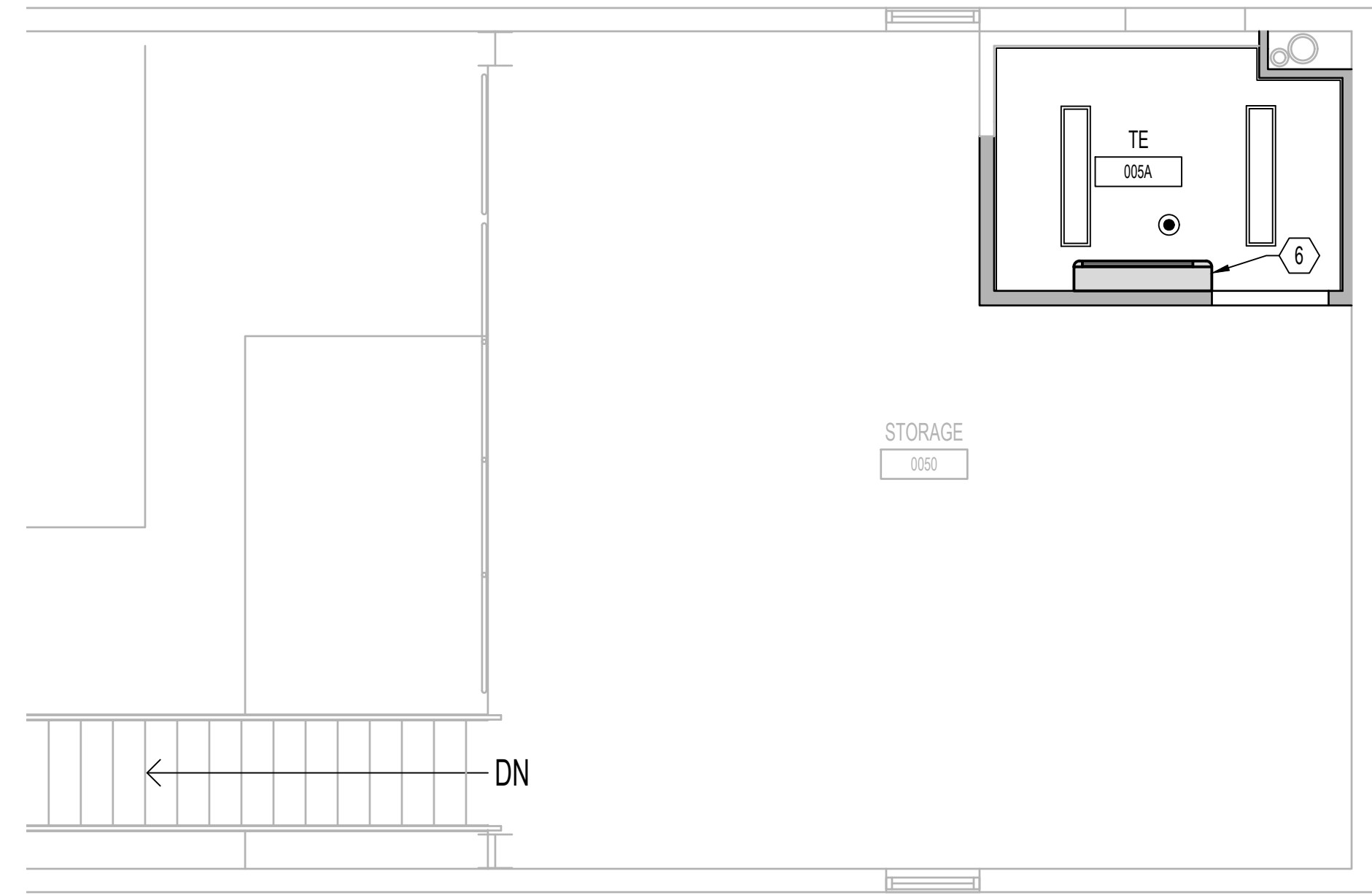


21-E402

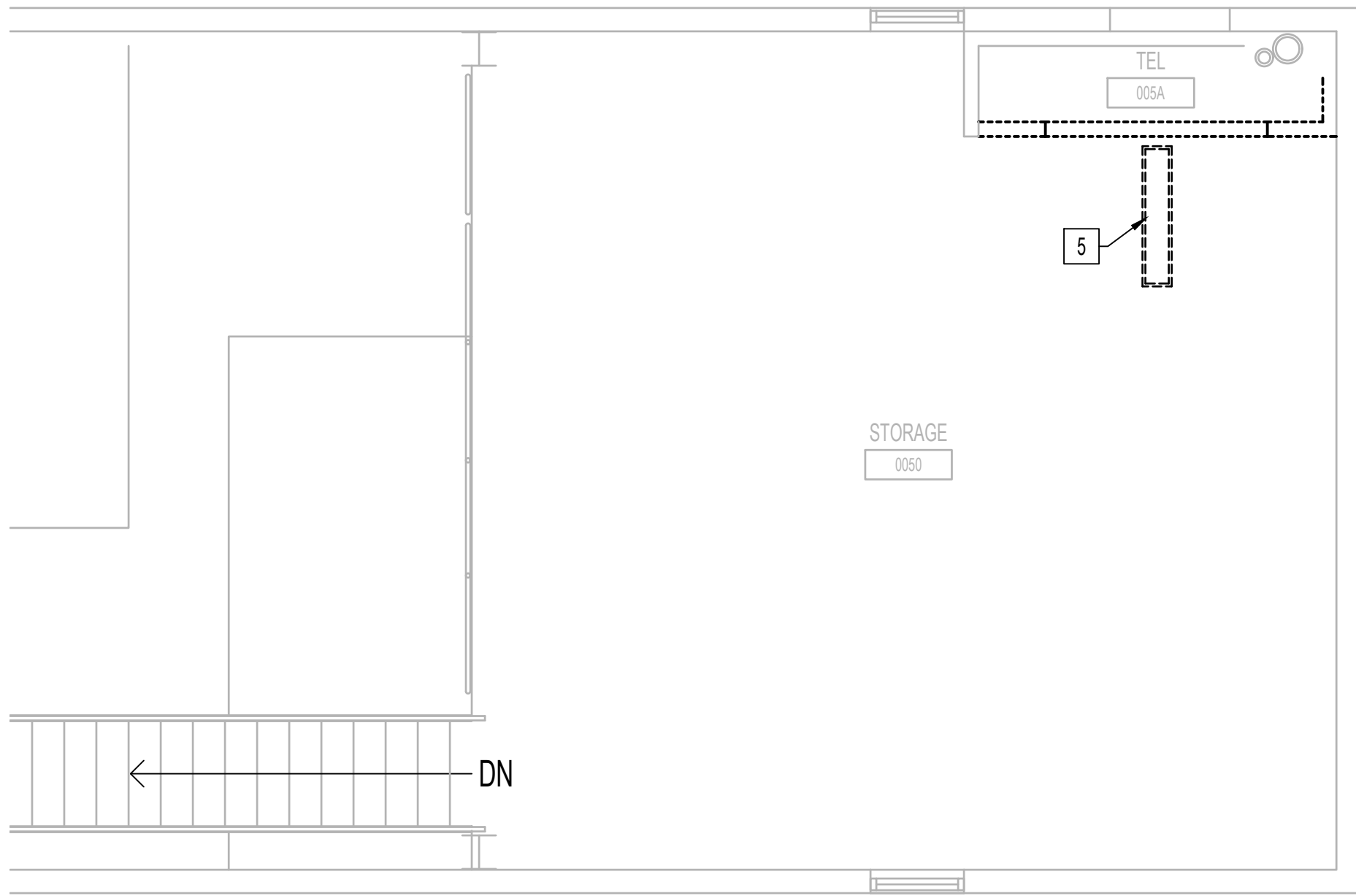


AMID: Desbca0402; Drawings:V0R0K01	ISSUE FOR 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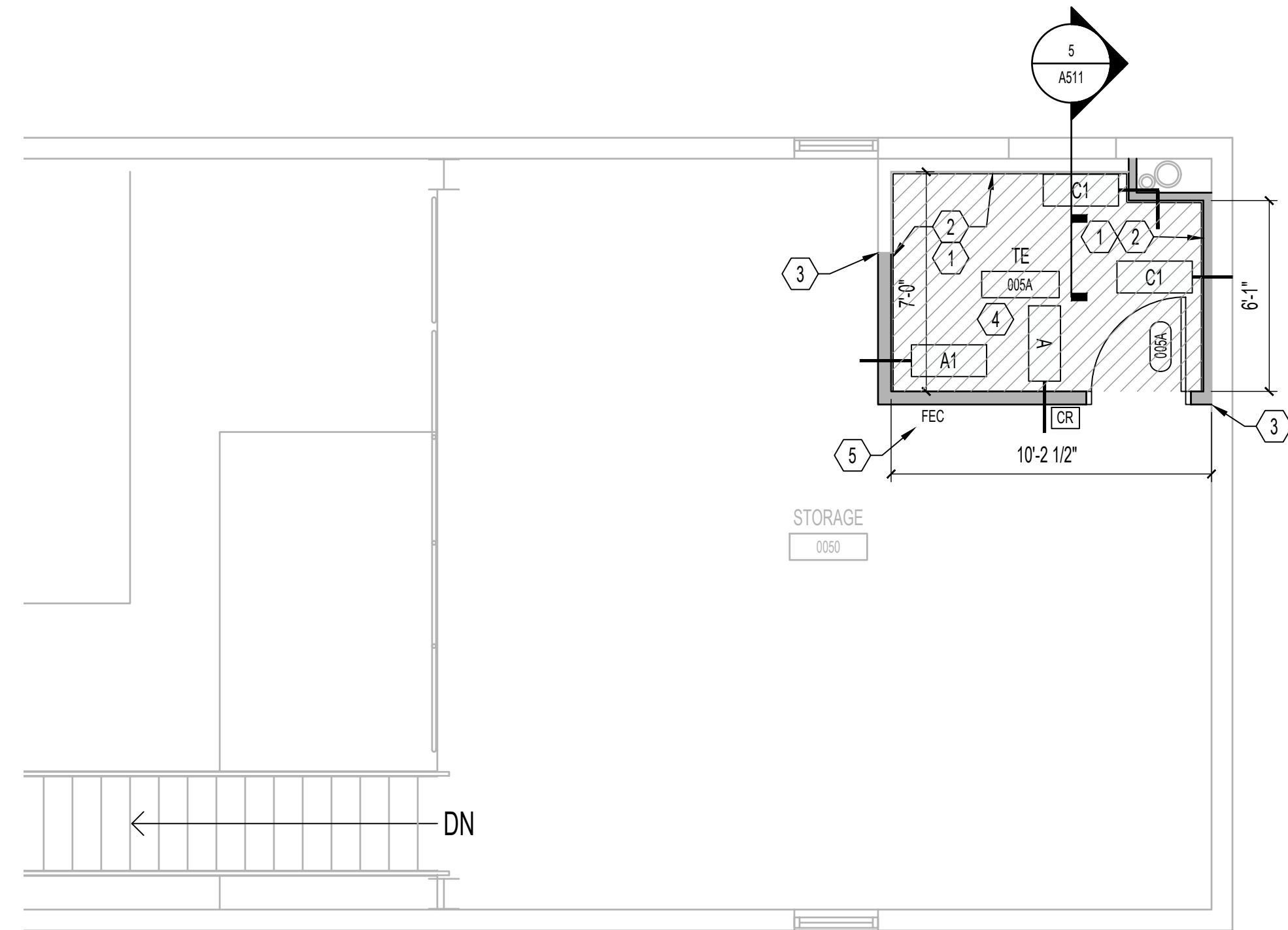
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VA FORM 08 - 6231



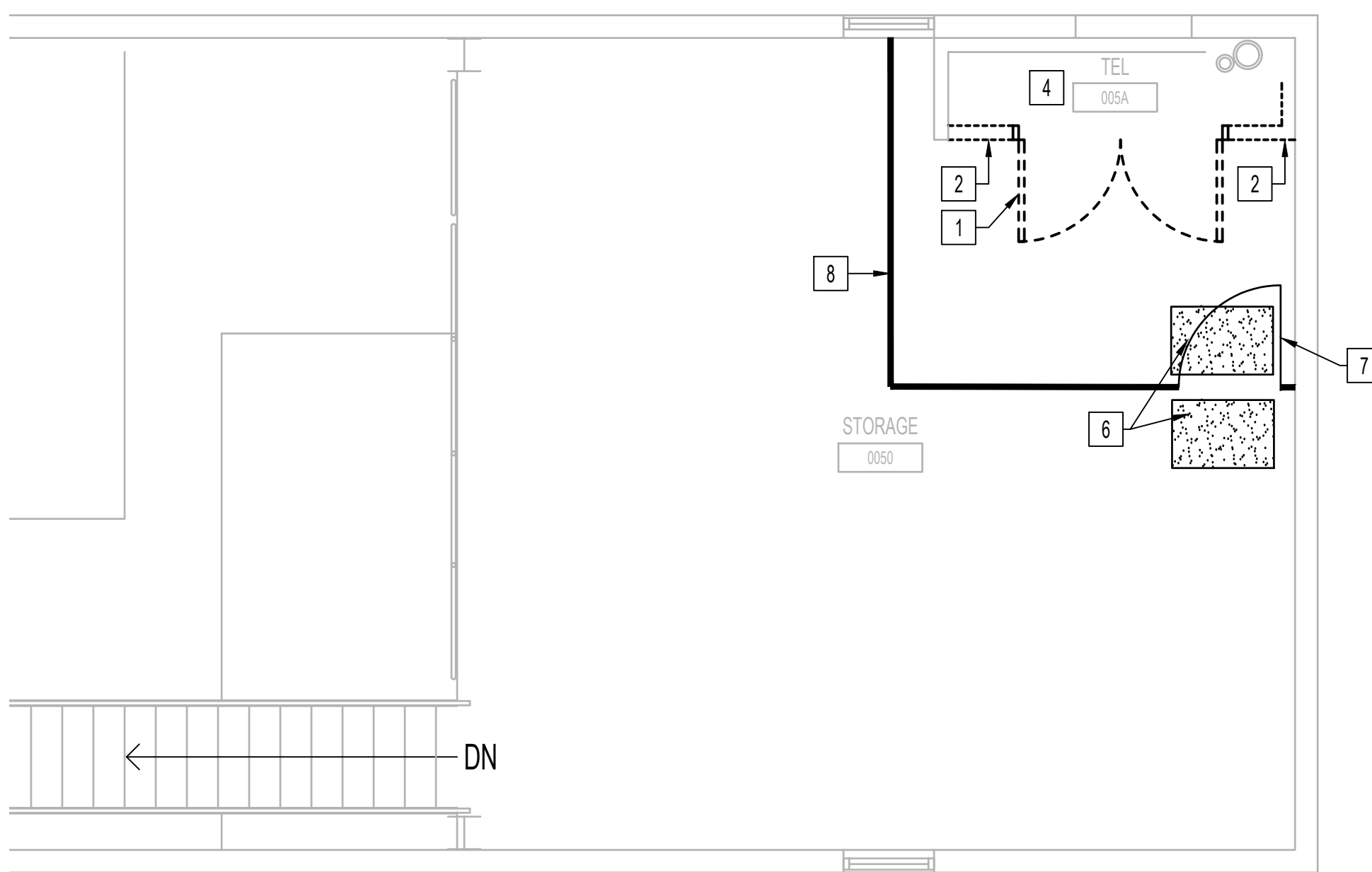
4 ARCHITECTURAL - BUILDING 24 - SECOND FLOOR RCP - PROPOSED
1/4"=1'-0"



3 ARCHITECTURAL - BUILDING 24 - SECOND FLOOR RCP - DEMOLITION
1/4"=1'-0"



2 ARCHITECTURAL - BUILDING 24 - SECOND FLOOR - PROPOSED
1/4"=1'-0"



1 ARCHITECTURAL - BUILDING 24 - SECOND FLOOR - DEMOLITION
1/4"=1'-0"

FLOOR/RCP PLAN LEGEND			
EXISTING CONSTRUCTION	DENOTES NEW 1' x 4' LIGHT FIXTURE, SEE ELECTRICAL	DENOTES NEW 2' x 4' LIGHT FIXTURE, SEE ELECTRICAL	DENOTES NEW OR RELOCATED SPRINKLER HEAD, SEE FIRE PROTECTION
DENOTES NEW PARTITION	DENOTES NEW DUCT FREE SPLIT SYSTEM UNIT, SEE MECHANICAL	DENOTES NEW SUPPLY CEILING ASSEMBLY	DENOTES NEW OR EXISTING DUAL AUTHENTICATION CARD READER, SEE TELECOMMUNICATION SECURITY DRAWINGS
DENOTES NEW CMU PARTITION	DENOTES NEW DOOR AND FRAME	DENOTES NEW STATIC DISSIPATIVE TILE (SDT) FLOORING	DENOTES NEW ACT CEILING ASSEMBLY
DENOTES NEW EXISTING FIRE EXTINGUISHER	DENOTES NEW OR EXISTING TELECOMMUNICATION SECURITY DRAWINGS		

DEMOLITION PLAN LEGEND			
EXISTING CONSTRUCTION TO REMAIN	DENOTES 1' x 4' LIGHT FIXTURE TO BE REMOVED, SEE ELECTRICAL	DENOTES 2' x 4' LIGHT FIXTURE TO BE REMOVED, SEE ELECTRICAL	DENOTES SPRINKLER HEAD TO BE REMOVED, SEE FIRE PROTECTION
DENOTES BUILDING COMPONENTS TO BE DEMOLISHED (UNO)	DENOTES EXISTING EXHAUST DIFFUSER TO BE REMOVED, SEE MECHANICAL	DENOTES EXISTING SUPPLY DIFFUSER TO BE REMOVED, SEE MECHANICAL	DENOTES GYPSUM CEILING ASSEMBLY TO BE DEMOLISHED
DENOTES DOOR TO BE DEMOLISHED	DENOTES EXISTING EXHAUST DIFFUSER TO BE REMOVED, SEE MECHANICAL	DENOTES EXISTING SUPPLY DIFFUSER TO BE REMOVED, SEE MECHANICAL	DENOTES GYPSUM CEILING ASSEMBLY TO BE DEMOLISHED
DENOTES FLOOR FINISH TO BE DEMOLISHED TO CONCRETE SUBSTRATE	DENOTES EXISTING EXHAUST DIFFUSER TO BE REMOVED, SEE MECHANICAL	DENOTES EXISTING SUPPLY DIFFUSER TO BE REMOVED, SEE MECHANICAL	DENOTES GYPSUM CEILING ASSEMBLY TO BE DEMOLISHED
DENOTES CEILING ASSEMBLY TO BE DEMOLISHED	DENOTES EXISTING EXHAUST DIFFUSER TO BE REMOVED, SEE MECHANICAL	DENOTES EXISTING SUPPLY DIFFUSER TO BE REMOVED, SEE MECHANICAL	DENOTES GYPSUM CEILING ASSEMBLY TO BE DEMOLISHED
DENOTES DUCTLESS SPLIT SYSTEM UNIT TO BE DEMOLISHED	DENOTES EXISTING EXHAUST DIFFUSER TO BE REMOVED, SEE MECHANICAL	DENOTES EXISTING SUPPLY DIFFUSER TO BE REMOVED, SEE MECHANICAL	DENOTES GYPSUM CEILING ASSEMBLY TO BE DEMOLISHED

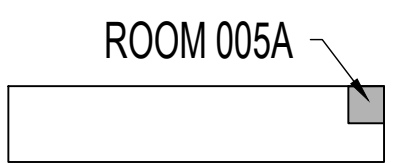
GENERAL NOTES	
NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING IN BLDG 24.	
1.	SEE LIMITED ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT FOR SCOPE OF WORK IN EACH TELECOMMUNICATIONS ROOM (TR).
2.	SEE ELECTRICAL DRAWINGS FOR TYPICAL TR ROOM ELECTRICAL DEMOLITION.
3.	PROVIDE TEMPORARY PROTECTION AT EXISTING AND NEW TR DOORS DURING CONSTRUCTION.
4.	INSTALL STATIC DISSIPATIVE TILE (SDT) FLOORING AT ALL FLOORS IN TELECOMMUNICATIONS ROOM (TR). SEE FINISH SCHEDULE.
5.	NO CEILING GRID AND ACOUSTICAL CEILING TILE IN TR ROOMS.
6.	PATCH EXISTING WALLS TO MATCH NEW TR ROOM FINISH WALLS.
7.	FOR INFORMATION TECHNOLOGY (IT) INFORMATION AND SCOPE OF WORK SEE DESIGN NARRATIVE BASIS-OF-DESIGN INCLUDED WITH CURRENT SUBMISSION.
8.	VERIFY IN FIELD ALL EXISTING CONDITIONS ILLUSTRATED ON THESE DRAWINGS. CONSTRUCTION DRAWINGS HAVE BEEN DEVELOPED REFERENCE AS-BUILT DRAWINGS PROVIDED BY THE VA AND FIELD VERIFICATION CONDUCTED THROUGH VISUAL INVESTIGATION.
9.	FOR NON-ARCHITECTURAL WORK, SEE FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL, AND INFORMATION TECHNOLOGY DRAWINGS FOR WORK BEING PERFORMED.
10.	ALL EXISTING WALLS WITHIN NEW TR ROOM SHALL HAVE CONTINUOUS FIRE RESISTANT SEALANT ALONG TOP AND BOTTOM.

DEMOLITION COORDINATION NOTES	
1. DEMOLITION COORDINATION NOTES ARE IN ADDITION TO THE GENERAL DEMOLITION NOTES FOUND ON SHEET 6003.	
2. SEE CIVIL, FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL, AND INFORMATION TECHNOLOGY DRAWINGS FOR RELATED DISCIPLINE SPECIFIC DEMOLITION NOTES.	
3. SEE ABATEMENT DRAWINGS FOR ASBESTOS AND LEAD ABATEMENT WORK TO BE PERFORMED BY ASBESTOS / LEAD ABATEMENT CONTRACTOR.	
4. DASHED LINES INDICATE DEMOLITION WORK INCLUDING, BUT NOT LIMITED TO, PARTITIONS, DOORS, WINDOWS, FLOOR AND WALL FINISHES, FIXED MILLWORK AND EQUIPMENT, UNLESS NOTED OTHERWISE. INDIVIDUALLY IDENTIFIED ITEMS ARE FOR FURTHER CLARIFICATION ONLY AND ARE NOT INTENDED TO BE ALL INCLUSIVE. FOR CLARITY, ADDITIONAL BUILDING DEMOLITION ITEMS MAY ALSO BE INDICATED THROUGHOUT THE DRAWINGS.	
5. THE DRAWINGS DO NOT PURPORT TO SHOW ALL OBJECTS EXISTING WITHIN THE SCOPE OF WORK. EXISTING LAYOUTS, CONFIGURATIONS AND PROPOSED DEMOLITION ARE BASED ON PARTIAL DOCUMENTS FROM PREVIOUS CONSTRUCTION AND LIMITED FIELD OBSERVATION. PORTIONS OF THE EXISTING CONSTRUCTION ARE CONCEALED AND MAY EXPOSE UNFORESEEN CONDITIONS DURING DEMOLITION. ACTUAL CONFIGURATIONS MAY VARY AND CRITICAL DIMENSIONS AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE GC PRIOR TO DEMOLITION.	
6. ALL CONSTRUCTION TO REMAIN AFFECTED BY DEMOLITION SHALL BE PATCHED, PLASTERED AND BE PROPERLY MEMBER AND ALIGNED SO AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIR. ALL ADJACENT FLOORS AND CEILING SO AFFECTED BY DEMOLITION SHALL BE PATCHED AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIR.	

FLOOR PLAN KEY NOTES	
NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING IN BLDG 24.	
1.	4x8' AC GRADE 3/4" GRADE SIZE PLYWOOD BACKBOARD FOR SERVICE PROVIDER / SECURITY / VIDEO ETC. AROUND THE WALLS OF THE TELECOMMUNICATIONS ROOMS (TR) AS SHOWN.
2.	BEFORE INSTALLING PLYWOOD BACKBOARD, GYPSUM WALLBOARD TO BE PATCHED/REPAIRED AND PROVIDE ONE (1) COAT OF PRIMER AND TWO (2) COATS OF PAINT. PAINT TO BE SHERWIN WILLIAMS OR VA APPROVED EQUAL, WITH REMAINING PAINT TO BE TURNED OVER TO VA UPON COMPLETION OF JOB.
3.	NEW INFILL WALLS TO BE PATCHED / REPAIRED WHERE JOINING / MEETING EXISTING WALLS. PROVIDE ONE (1) COAT OF PRIMER AND TWO (2) COATS OF PAINT AT NEW INFILL WALLS. FINISH COLOR TO MATCH EXISTING. PAINT TO BE SHERWIN WILLIAMS OR VA APPROVED EQUAL, WITH REMAINING PAINT TO BE TURNED OVER TO VA UPON COMPLETION OF JOB.
4.	INSTALL FIRE RATED PLYWOOD SUB FLOORING AND STATIC DISSIPATIVE TILE (SDT) FLOORING IN TR CLOSET.
5.	NEW FIRE EXTINGUISHERS TO SERVICE NEW TR ROOM TO BE ABC CLEAN AGENT FIRE EXTINGUISHER WITH SEMI-RECESSED CABINET.
6.	NEW DUCT FREE SPLIT SYSTEM UNIT, SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.

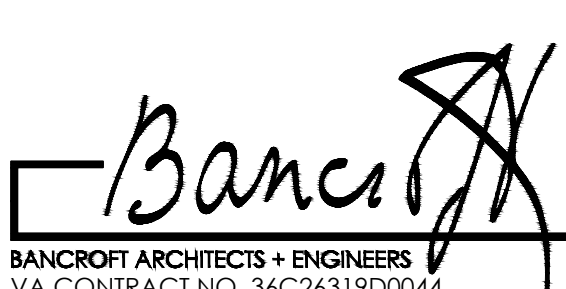
DEMOLITION KEY NOTES	
NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING IN BLDG 24.	
1.	DEMOLISH EXISTING DOOR AND HARDWARE. REMOVE DOOR FRAME IN ITS ENTIRETY.
2.	DEMOLISH A PORTION OF EXISTING WALL PARTITION.
3.	DEMOLISH EXISTING PARTITION IN ITS ENTIRETY INCLUDING ALL FRAMING, BRACING, AND SUPPORTS.
4.	REMOVE IN THEIR ENTIRETY ALL EXISTING WALL-MOUNTED ITEMS. COORDINATE ITEM DISPLACEMENT WITH THE VA.
5.	REMOVE EXISTING LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
6.	SUPPLY AND INSTALL WALK OFF MAT(S).
7.	SUPPLY AND INSTALL TEMPORARY DOOR.
8.	SUPPLY AND INSTALL TEMPORARY MELAMINE COATED MDF BARRIER. REFER TO 7/A511 FOR TEMPORARY BARRIER ASSEMBLY.

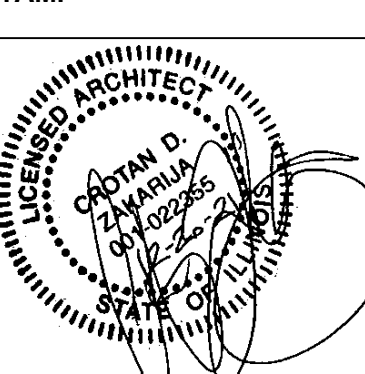
KEY PLAN - BLDG 24 - SECOND FLOOR
NTS



ISSUE FOR BID	09/02/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 3	08/09/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 2	06/27/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION + MOD 2	06/10/2022
FINAL CONSTRUCTION DOCUMENTS SUBMISSION	03/28/2022
100% CONSTRUCTION DOCUMENTS SUBMISSION	03/14/2022
95% CONSTRUCTION DEVELOPMENT SUBMISSION	02/10/2022
65% DESIGN DEVELOPMENT SUBMISSION	12/09/2021
35% DESIGN DEVELOPMENT SUBMISSION	10/07/2021
Revisions:	Date:

CONSULTANT	

ARCHITECT/ENGINEER OF RECORD	
	
BANCROFT ARCHITECTS + ENGINEERS VA CONTRACT NO. 36C26319D0044	3300 Dundee Road Northbrook, IL 60062 T: 847.952.9362 www.bancroft-ae.com BAE PROJECT NO. 18-121

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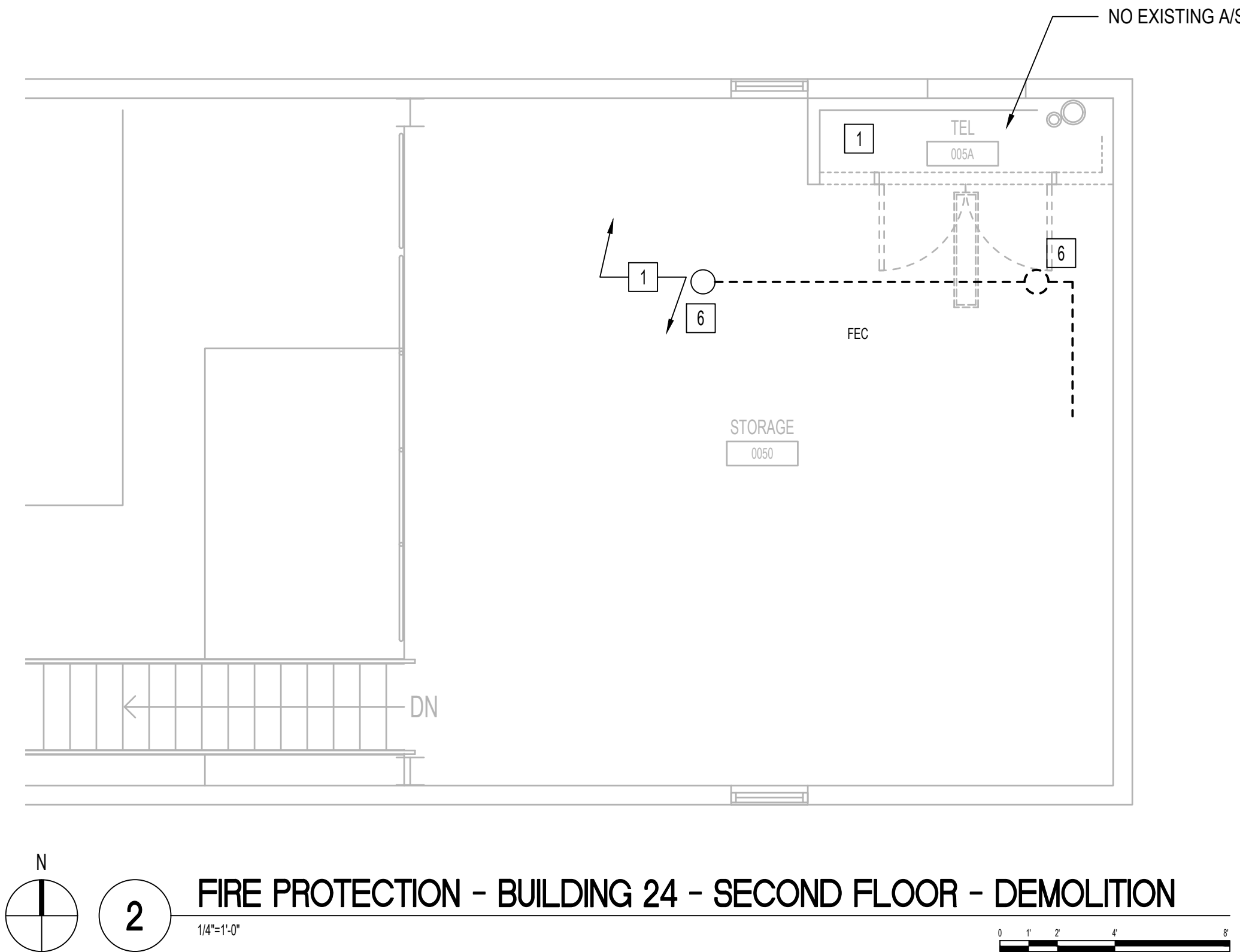
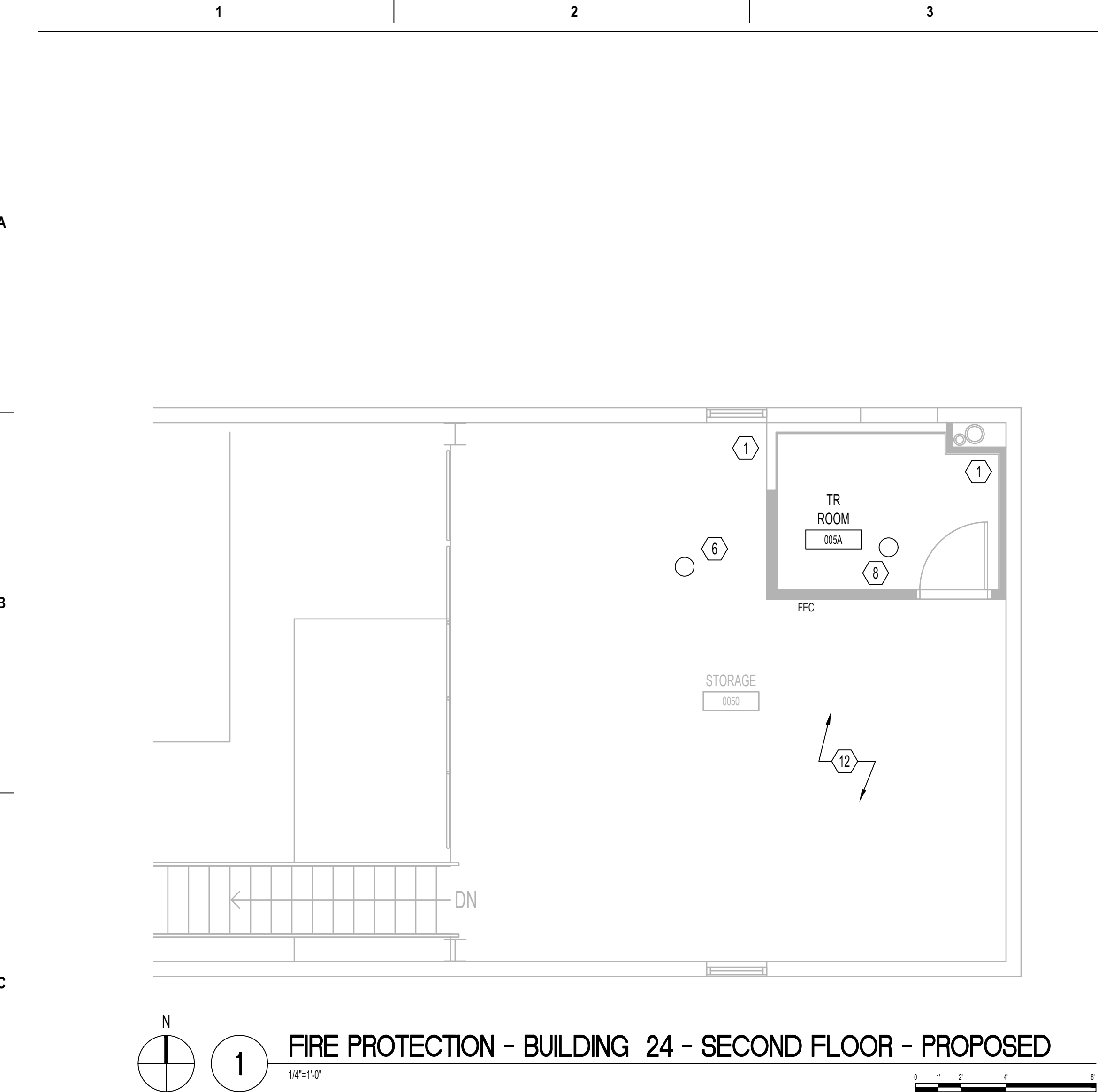
Office of Construction and Facilities Management	
VA U.S. Department of Veterans Affairs	

Drawing Title	ARCHITECTURAL - ENLARGED PLAN - SECOND FLOOR
Approved: Project Director	

Phase	CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED	

Project Title	EHRM INFRASTRUCTURE UPGRADES
Location	DES MOINES, IOWA
Issue Date	09/02/2022
Checked YH/MG	
Drawn MG/YH	

Project Number	636A6-21-101
Building Number	1, 2, 3, 4, 5, 6M, 7M, 9, 10, 11, 12, 21, 24, 25, 27, & 28
Drawing Number	24-A402



GENERAL FIRE PROTECTION NOTES

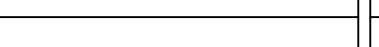
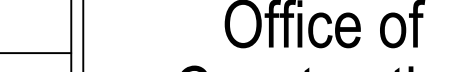
- THE FIRE PROTECTION DRAWINGS ARE CONCEPTUAL, FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSTRUED AS FINAL DESIGN OR INSTALLATION DOCUMENTS. THE SPRINKLER DESIGN AND INSTALLATION SHALL BE THE RESPONSIBILITY OF THE DESIGN BUILD FIRE PROTECTION CONTRACTOR. THIS INCLUDES THE RELOCATION OF SPRINKLER MAINS, BRANCH PIPING AND HEADS AS NECESSARY FOR THE NEW DESIGN. REFER TO SPECIFICATION FOR DESIGN CRITERIA.
- DESIGN TO BE IN ACCORDANCE WITH THE E VA FIRE PROTECTION DESIGN MANUAL, DATED JUNE 1, 2021.
- CONTRACTOR TO PROTECT EXISTING HEADS FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
- CONTRACTOR TO UTILIZE EXISTING BRANCH LINES, CROSS MAINS, AND FEED MAINS, SERVING NEW SPRINKLER LOCATIONS WITH MODIFIED ARM/ROVER CONNECTIONS FED FROM EXISTING OUTLET. SHOW ALL PIPING ON SHOP DRAWING SUBMITTAL.
- CONTRACTOR TO TURN VERTICAL POSITION OF BRANCH 90 DEGREE FITTING FROM FACING DOWNWARD TO UPWARD AND INSTALL NEW UPRIGHT AUTOMATIC SPRINKLER HEAD TO MAINTAIN FIRE SUPPRESSION PIPING ACTIVE DURING THE CONSTRUCTION. AT THE CONCLUSION OF THE CONSTRUCTION, REVERSE THE 90 DEGREE FITTING TO ITS ORIGINAL CONFIGURATION, AND PENDENT AUTOMATIC SPRINKLER HEADS WILL BE INSTALLED, WHERE REQUIRE.
- AT LOCATIONS WHERE THE EXISTING AUTOMATIC SPRINKLERS ARE REMOVED, RELOCATED, OR RE-INSTALLED, ONLY NEW AUTOMATIC SPRINKLER HEADS SHALL BE USED. NO AUTOMATIC SPRINKLER HEADS SHALL BE RE-USED, IN ACCORDANCE WITH THE NFPA #13 REQUIREMENTS.

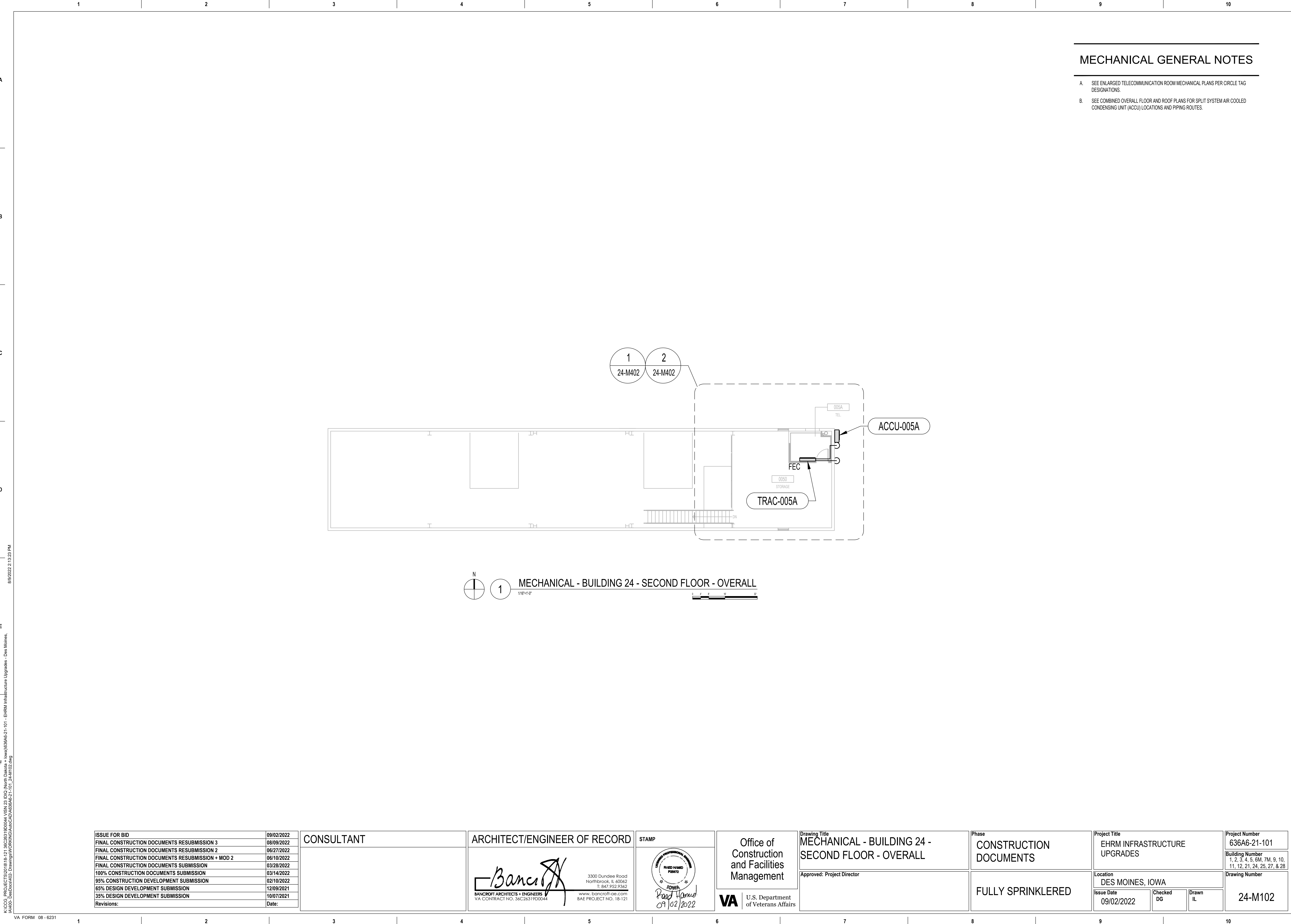
DEMOLITION KEY NOTES

- EXISTING CONDITION: NO CEILING
- EXISTING CONDITION: LAY - IN TILE TO BE REMOVED BY GENERAL CONTRACTOR
- EXISTING CONDITION: LAY - IN TILE TO REMAIN
- EXISTING CONDITION: LAY - IN TILE TO BE REMOVED AND REPLACED WITH NEW LAY-IN TILE CEILING BY GENERAL CONTRACTOR.
- EXISTING CONDITION: PLASTER CEILING - TO BE REMOVED BY GENERAL CONTRACTOR
- EXISTING AUTOMATIC SPRINKLER HEAD - TO REMAIN
- EXISTING AUTOMATIC SPRINKLER HEAD - TO BE REMOVED
- EXISTING AUTOMATIC SPRINKLER HEAD LOCATION - TO BE CHANGED TO NEW UPRIGHT HEAD
- EXISTING AUTOMATIC SPRINKLER LOCATION - TO BE RELOCATED WITH NEW AUTOMATIC SPRINKLER HEAD OF SAME TYPE
- EXISTING AUTOMATIC SPRINKLER LOCATION - TO BE RELOCATED WITH NEW SEMI-RECESSED AUTOMATIC SPRINKLER HEAD
- NO AUTOMATIC SPRINKLER HEAD IN THIS LOCATION
- NEW ROOM/CEILING CONFIGURATION WILL REQUIRE ADJUSTMENT TO EXISTING AUTOMATIC SPRINKLER LAYOUT IN FIELD.
- EXISTING AUTOMATIC SPRINKLER TO BE REMOVED AND REPLACED WITH NEW AUTOMATIC SPRINKLER HEAD OF SAME TYPE AFTER CEILING IS REPLACED
- EXISTING AUTOMATIC SPRINKLER TO BE REMOVED AND REPLACED WITH NEW UPRIGHT A/S HEAD

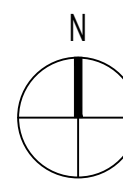
FIRE PROTECTION KEY NOTES

- NO CEILING
- LAY-IN TILE REMOVED BY GENERAL CONTRACTOR
- EXISTING LAY-IN TILE TO REMAIN
- NEW LAY IN TILE CEILING BY GENERAL CONTRACTOR
- NEW PLASTER CEILING BY GENERAL CONTRACTOR
- EXISTING AUTOMATIC SPRINKLER HEAD - TO REMAIN
- EXISTING AUTOMATIC SPRINKLER BRANCH CAPPED
- EXISTING AUTOMATIC SPRINKLER HEAD - TO BE CHANGED TO NEW UPRIGHT HEAD
- EXISTING AUTOMATIC SPRINKLER LOCATION - TO BE RELOCATED WITH AUTOMATIC SPRINKLER HEAD OF SAME TYPE
- EXISTING AUTOMATIC SPRINKLER LOCATION - TO BE RELOCATED WITH NEW SEMI-RECESSED AUTOMATIC SPRINKLER HEAD
- NEW AUTOMATIC SPRINKLER HEAD - UPRIGHT STYLE
- NEW ROOM/CEILING CONFIGURATION WILL REQUIRE ADJUSTMENT TO EXISTING AUTOMATIC SPRINKLER LAYOUT IN FIELD.
- EXISTING AUTOMATIC SPRINKLER TO BE REMOVED AND REPLACED WITH NEW AUTOMATIC SPRINKLER HEAD OF SAME TYPE AFTER CEILING IS REPLACED
- EXISTING AUTOMATIC SPRINKLER TO BE REMOVED AND REPLACED WITH NEW UPRIGHT A/S HEAD

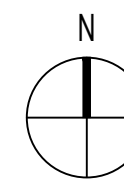
AMOD: Des Moines 02: Drawings\WORKING\001\018-101\36C0044\001\001.dwg ICG: CCG PROJECTS\2018\18-101\36C0044\001\001.dwg	ISSUE FOR BID	09/02/2022	CONSULTANT	 BANCROFT ARCHITECTS + ENGINEERS VA CONTRACT NO. 36C26319D0044	 3300 Dundee Road Northbrook, IL 60062 T: 847.952.2362 www.bancroft-ae.com BAE PROJECT NO. 18-121	STAMP	Office of Construction and Facilities Management	VA U.S. Department of Veterans Affairs	Drawing Title FIRE PROTECTION - ENLARGED PLAN - SECOND FLOOR	Phase CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 636A6-21-101
	FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 3	08/09/2022										
	FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 2	06/27/2022										
	FINAL CONSTRUCTION DOCUMENTS RESUBMISSION + MOD 2	06/10/2022										
FINAL CONSTRUCTION DOCUMENTS SUBMISSION	03/28/2022	100% CONSTRUCTION DOCUMENTS SUBMISSION	03/14/2022	95% CONSTRUCTION DEVELOPMENT SUBMISSION	02/10/2022	65% DESIGN DEVELOPMENT SUBMISSION	12/09/2021	35% DESIGN DEVELOPMENT SUBMISSION	10/07/2021	Revisions:	Date:	
Drawing Number 24-FP402												



1. NEW REFRIGERANT LIQUID AND SUCTION PIPING DOWN.
2. ACCU TO BE WALL MOUNTED 2' MINIMUM ABOVE ROOF OR GRADE.
3. NEW 3/4" CONDENSATE DRAIN PIPING DOWN. TERMINATE 6" ABOVE GRADE.



2




1

ISSUE FOR BID	09/02/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 3	08/09/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 2	06/27/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION + MOD 2	06/10/2022
FINAL CONSTRUCTION DOCUMENTS SUBMISSION	03/28/2022
100% CONSTRUCTION DOCUMENTS SUBMISSION	03/14/2022
95% CONSTRUCTION DEVELOPMENT SUBMISSION	10/2/2022
65% DESIGN DEVELOPMENT SUBMISSION	12/09/2021
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Revisions:	Date:

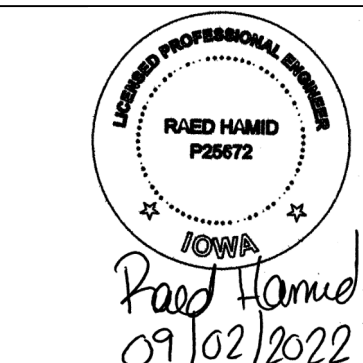
CONSULTANT

ARCHITECT/ENGINEER OF RECORD


BANCROFT ARCHITECTS + ENGINEERS
VA CONTRACT NO. 36C26319D0044

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Northbrook, IL 60062
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STAMP



Office of
Construction
and Facilities
Management



U.S. Department
of Veterans Affairs

Drawing Title
MECHANICAL - ENLARGED PLAN -
SECOND FLOOR

Approved: Project Director

Phase	CONSTRUCTION DOCUMENTS
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FULLY SPRINKLERED

Project Title	EHRM INFRASTRUCTURE UPGRADES
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Location	DES MOINES, IOWA
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Issue Date	09/02/2022
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Checked DG	
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Project Number	636A6-21-101
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	Building Number 1, 2, 3, 4, 5, 6M, 7M, 9, 10, 11, 12, 21, 24, 25, 27, & 28
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	Drawing Number
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Drawn IL	24-M402
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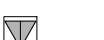




























B

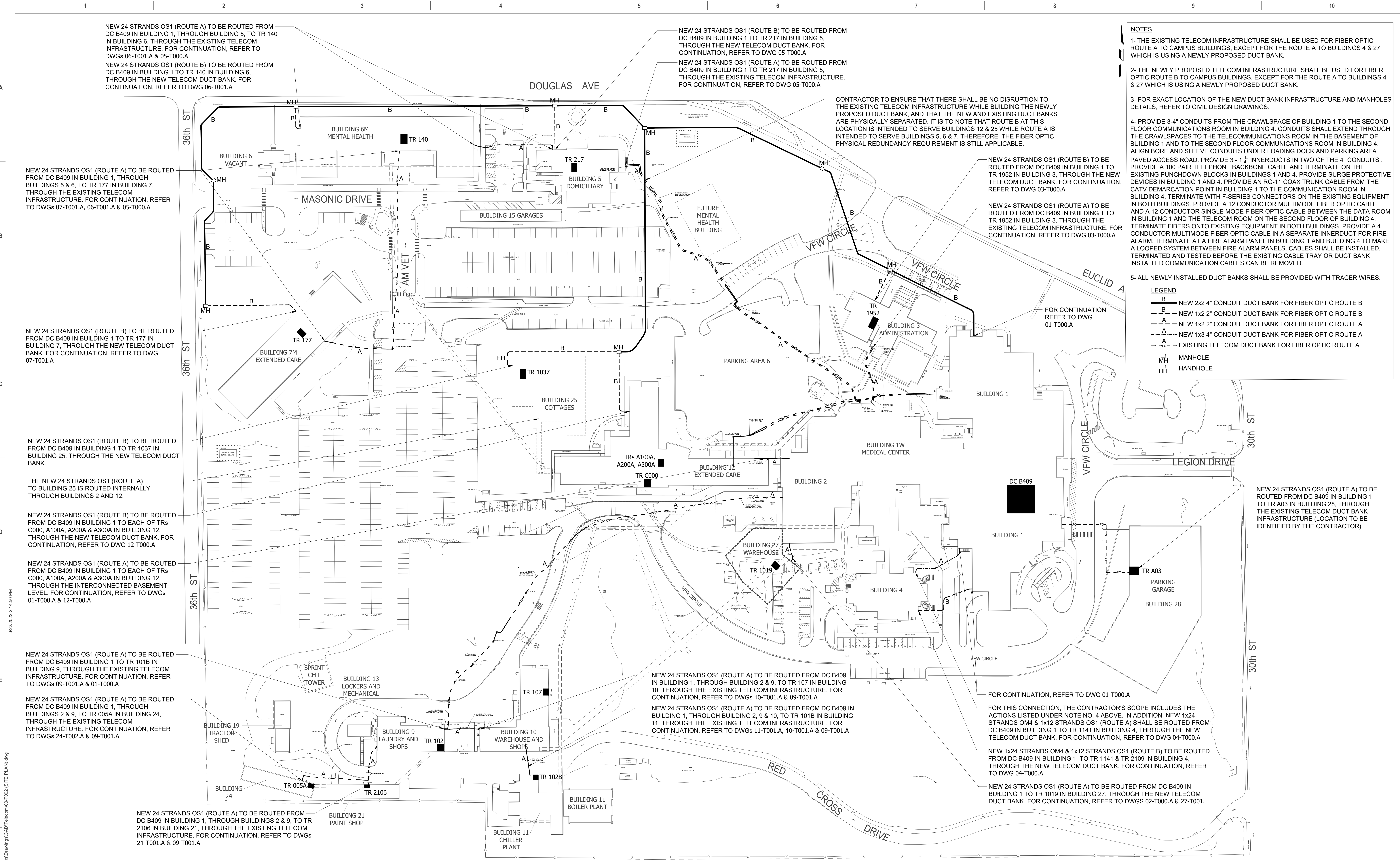
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F

ABBREVIATIONS		TELECOMMUNICATIONS SYMBOLS		GENERAL TELECOMMUNICATIONS NOTES		TELECOMMUNICATIONS DRAWING LIST		TELECOMMUNICATIONS DRAWING LIST	
A/C UNIT	AIR CONDITIONING UNIT		OUTLET, COMBINATION TELEPHONE/DATA COMMUNICATION	1. FOR GENERAL TELECOMMUNICATION INFORMATION AND SOW SEE DESIGN NARRATIVE/BASIS OF DESIGN NARRATIVE.	2. CONTRACTOR SHALL FURNISH A QUANTITY OF TWELVE (12) BLACK IEC C13/C14 POWER CORDS AND TWELVE (12) GRAY IEC C13/C14 POWER CORDS PER NETWORK CABINET AND PER SERVER CABINET LOCATED WITHIN DATA CENTER RM 8409. CORDS SHALL BE 2.0 m / 6.6 FT. IN LENGTH.	SHEET 00-T001 00-T002	TELECOMMUNICATIONS - SYMBOLS AND ABBREVIATIONS TELECOMMUNICATIONS - SITE ROUTING PLAN	BUILDING 27 27-T001 27-T401EP	FLOOR PLAN - BUILDING 27 - FIRST FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 27 - FIRST FLOOR - TELECOM ROOM EQUIPMENT PLAN
A/E	ARCHITECT/ENGINEER		FIBER OPTIC PATH A						
AFF	ABOVE FINISHED FLOOR		FIBER OPTIC PATH B	3. ALL AREAS SHALL BE CONSIDERED PLENUM SPACES, UNLESS OTHERWISE NOTED. COMPLY WITH ALL CODES PERTAINING TO PLENUM SPACES. PROVIDE WIRE OR CABLE RATED PLENUM AND OEM CERTIFIED FOR USE IN AIR PLENUMS.	4. FIBER OPTIC CABLE SHALL BE CONSTRUCTED WITH AN ALUMINUM INTERLOCKING ARMORED JACKET.	BUILDING 01 01-T000.A 01-T000.B 01-T000.C 01-T001.A 01-T001.B 01-T001.C 01-T002.A 01-T002.B 01-T002.C 01-T003.A 01-T003.B 01-T003.C 01-T004.A 01-T004.B 01-T004.C 01-T005	TELECOMMUNICATIONS - BUILDING 1 - BASEMENT - OVERALL ROUTING PLAN TELECOMMUNICATIONS - BUILDING 1 - BASEMENT - OVERALL ZONING PLAN TELECOMMUNICATIONS - BUILDING 1 - FIRST FLOOR - OVERALL ROUTING PLAN TELECOMMUNICATIONS - BUILDING 1 - FIRST FLOOR - OVERALL ZONING PLAN TELECOMMUNICATIONS - BUILDING 1 - FIRST FLOOR - CABLE TRAY PLAN TELECOMMUNICATIONS - BUILDING 1 - SECOND FLOOR - OVERALL ROUTING PLAN TELECOMMUNICATIONS - BUILDING 1 - SECOND FLOOR - OVERALL ZONING PLAN TELECOMMUNICATIONS - BUILDING 1 - THIRD FLOOR - OVERALL ROUTING PLAN TELECOMMUNICATIONS - BUILDING 1 - THIRD FLOOR - OVERALL ZONING PLAN TELECOMMUNICATIONS - BUILDING 1 - THIRD FLOOR - CABLE TRAY PLAN TELECOMMUNICATIONS - BUILDING 1 - FOURTH FLOOR - OVERALL ROUTING PLAN TELECOMMUNICATIONS - BUILDING 1 - FOURTH FLOOR - OVERALL ZONING PLAN TELECOMMUNICATIONS - BUILDING 1 - FOURTH FLOOR - CABLE TRAY PLAN TELECOMMUNICATIONS - BUILDING 1 - FIFTH FLOOR - OVERALL ROUTING PLAN TELECOMMUNICATIONS - BUILDING 1 - FIFTH FLOOR - OVERALL ZONING PLAN ENLARGED PLAN - BUILDING 1 - BASEMENT - TELECOM ROOM EQUIPMENT PLAN ENLARGED PLAN - BUILDING 1 - FIRST FLOOR - TELECOM ROOM EQUIPMENT PLAN ENLARGED PLAN - BUILDING 1 - SECOND FLOOR - TELECOM ROOM EQUIPMENT PLAN ENLARGED PLAN - BUILDING 1 - THIRD FLOOR - TELECOM ROOM EQUIPMENT PLAN ENLARGED PLAN - BUILDING 1 - FOURTH FLOOR - TELECOM ROOM EQUIPMENT PLAN	BUILDING 28 28-T001 28-T401EP	FLOOR PLAN - BUILDING 28 - FIRST FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 28 - FIRST FLOOR - TELECOM ROOM EQUIPMENT PLAN
BLDG	BUILDING		TELEPHONE LINE = T						
C	CONDUIT		TELECOMMUNICATIONS MANHOLE	7. ALL EQUIPMENT ADDED TO TELECOM ROOMS SHALL BE BONDED TO THE GROUNDING SYSTEM IN THAT ROOM IN ACCORDANCE WITH SPECIFICATION SECTION 27 05 26. REFER TO SHEET TT-TD703 FOR RISER DIAGRAM. REFER TO SHEET TT-TD502 FOR DETAILS.	8. CONTRACTOR SHALL VERIFY ALL COMPONENTS BONDED TO EXISTING TELECOMMUNICATION GROUNDING BUSBARS HAVE BEEN TAKEN OUT OF SERVICE OR HAVE BEEN BONDED TO THE NEW TELECOMMUNICATION GROUNDING/BONDING SYSTEM PRIOR TO REMOVING EXISTING GROUNDING COMPONENTS.	TELECOM ELEVATIONS AND SCHEDULES TT-T0601 TT-T0602 TT-T0603 TT-T0604 TT-T0605 TT-T0606 TT-T0609	ELEVATIONS - BUILDING 1 - RACK ELEVATIONS ELEVATIONS - BUILDING 1 - RACK ELEVATIONS ELEVATIONS - BUILDING 1 - RACK ELEVATIONS ELEVATIONS - CAMPUS - RACK ELEVATIONS ELEVATIONS - CAMPUS - RACK ELEVATIONS SCHEDULE - DATA CENTER CABLE SCHEDULE		
CAT	CATEGORY		FLOOR RECEPTACLE, TELEPHONE					9. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROMPTLY REPORT ANY DRAWING DISCREPANCIES TO THE VA AND ARCHITECT.	10. CONTRACTOR TO PROVIDE BASKET TYPE CABLE TRAY ALONG PRIMARY CABLE PATHWAYS CABLE TRAY TO BE SIZED AS PER DETAIL 1 ON DRAWING TT-TD506 ASSUMING 40% FILL AND 50% SPARE CAPACITY.
CCTV	CLOSED CIRCUIT TELEVISION		OUTLET TELEPHONE; LETTER INDICATES AS FOLLOWS: J = JACK TYPE W = WALL TYPE	11. IN ADDITION TO PRIMARY PATHWAYS, CABLE TRAYS SHALL BE PROVIDED FOR CABLE BUNDLES EXCEEDING 12 CABLES.	12. FIRE RATED MECHANICAL SLEEVE ASSEMBLIES SHALL BE PROVIDED WHEN PASSING THROUGH PARTITIONS ASSUMING 40% FILL AND 50% SPARE CAPACITY.	BUILDING 3 03-T000.A 03-T000.C 03-T001.A 03-T001.C 03-T002.C 03-T401EP	FLOOR PLAN - BUILDING 3 - BASEMENT - ROUTING PLAN FLOOR PLAN - BUILDING 3 - BASEMENT - CABLE TRAY PLAN FLOOR PLAN - BUILDING 3 - FIRST FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 3 - FIRST FLOOR - CABLE TRAY PLAN FLOOR PLAN - BUILDING 3 - SECOND FLOOR - ROUTING PLAN ENLARGED PLAN - BUILDING 3 - FIRST FLOOR - TELECOM ROOM EQUIPMENT PLAN		
COMM	COMMUNICATION		OUTLET DATA ONLY - "X" INDICATES QUANTITY OF DATA OUTLETS					13. CONTRACTOR SHALL ENSURE THAT ALL PENETRATIONS ARE SEALED ON BOTH SIDES AS REQUIRED TO MEET EXISTING RATINGS. REFER TO SPECIFICATION 07 84 00.	14. EXISTING ROUTING FOR TELECOM OUTLETS SHALL BE MAINTAINED TO THE FULLEST EXTENT POSSIBLE. IT IS UNDERSTOOD THAT SOME OF THE NEW CABLES WILL BE PLACED WITHIN THE NEWLY PROPOSED CABLE TRAYS, HOWEVER THE EXISTING CONDUITS TO THE DATA DROPS SHALL BE REUSED.
CU	COPPER		OUTLET; LETTER INDICATES AS FOLLOWS: A = AUDIO V = VIDEO I = INTERCOM	15. THE INDUSTRY STANDARD OF 295 FEET COPPER CABLE DISTANCE LIMITATION SHALL BE RESPECTED. IF THIS REQUIREMENT CANNOT BE MET, CONTACT THE VA IMMEDIATELY.	16. ALL CABLE TO WIRELESS ACCESS POINTS (WAPS) SHALL BE REPLACED WITH CAT 6A CABLES. PROVIDE A MINIMUM OF 10' CAT6A SERVICE LOOP AND A NEW CAT 6A SINGLE JACK SURFACE MOUNTED BOX (AKA BISCUIT) OR MODULAR PLUG TERMINATED LINK (MPTL) ABOVE THE CEILING WHERE EXISTING WAPS ARE LOCATED. ALL EXISTING WIRELESS ACCESS POINT DEVICES SHALL REMAIN IN PLACE.	BUILDING 5 05-T000 05-T001.A 05-T001.C 05-T002.A 05-T002.C 05-T003 05-T400EP 05-T402EP	FLOOR PLAN - BUILDING 5 - BASEMENT - ROUTING PLAN FLOOR PLAN - BUILDING 5 - FIRST FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 5 - FIRST FLOOR - CABLE TRAY PLAN FLOOR PLAN - BUILDING 5 - SECOND FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 5 - SECOND FLOOR - CABLE TRAY PLAN FLOOR PLAN - BUILDING 5 - THIRD FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 5 - BASEMENT - TELECOM ROOM EQUIPMENT PLAN FLOOR PLAN - BUILDING 5 - SECOND FLOOR - TELECOM ROOM EQUIPMENT PLAN		
DEMO	DEMOLITION		WIRELESS ACCESS POINT DATA OUTLET - "XX" INDICATES DEVICE NAME					17. HYBRID CABLES FOR THE ISP MM/SM FIBER OPTIC CABLING ARE ACCEPTABLE INSTEAD OF SEPARATE CABLES AS INDICATED CURRENTLY IN THE TELECOMMUNICATIONS BACKBONE CABLING RISER DIAGRAM (DWG. TT-TD-701).	18. OSP OS2 CABLES TO OUTBUILDINGS SHALL BE INDOOR/OUTDOOR RATED SO THAT BUILDING DISTRIBUTORS ARE NOT BE REQUIRED AT BUILDING ENTRANCE POINTS.
DRAWING	DRAWING		OUTLET; LETTER INDICATES AS FOLLOWS: A = AUDIO V = VIDEO I = INTERCOM	19. CONTRACTOR SHALL MAINTAIN A MAXIMUM OF 40% RACEWAY FILL FACTOR.	20. CONTRACTOR TO LOCATE EXISTING REINFORCING PRIOR TO DRILLING CORES FOR CONDUITS. DO NOT OUT REINFORCING. CORES SHALL HAVE 4" CLEAR MINIMUM BETWEEN THEM. ADJUST CORE LOCATIONS AS NEEDED. AT LOCATIONS WITH MORE THAN (2) CORES GOING THROUGH A CMU WALL, SPACE CORES AT 16" MINIMUM.	BUILDING 7 07-T001.A 07-T001.C 07-T401EP	FLOOR PLAN - BUILDING 7 - FIRST FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 7 - FIRST FLOOR - CABLE TRAY PLAN FLOOR PLAN - BUILDING 7 - FIRST FLOOR - TELECOM ROOM EQUIPMENT PLAN		
ELEC	ELECTRIC OR ELECTRICAL		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.					21. ANY AND ALL PERSONNEL ENTERING PATIENT MENTAL HEALTH WARD MUST HAVE ADDITIONAL TRAINING AND APPROVAL FROM NURSE MANAGER PRIOR TO ENTERING AREA.	22. IF FLOOR OR RATED WALL PENETRATIONS CANNOT BE FIREFSTOPPED AT THE END OF THE WORK SHIFT DUE TO THE NEED TO PULL ADDITIONAL CABLES, TEMPORARY FIREFSTOPPING COMPOSED OF MINERAL WOOL SHOULD BE INSTALLED IN THE PENETRATION TO PROVIDE PROTECTION AGAINST FIRE/SMOKE SPREAD THROUGH THE UNSEALED PENETRATION.
ELEV	ELEVATOR		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.	23. ALL NEWLY INSTALLED DUCT BANKS SHALL BE PROVIDED WITH TRACER WIRES.	24. ESTIMATED AVERAGE CABLE LENGTHS PROVIDED FOR REFERENCE ONLY. CONTRACTOR IS SOLELY RESPONSIBLE FOR CABLE LENGTHS AND PROVIDING A COMPLETE INSTALLATION AS DESCRIBED THROUGHOUT THE CONTRACT DOCUMENTS.	BUILDING 10 10-T000 10-T001.A 10-T001.C 10-T401EP	FLOOR PLAN - BUILDING 10 - BASEMENT - ROUTING PLAN FLOOR PLAN - BUILDING 10 - FIRST FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 10 - FIRST FLOOR - CABLE TRAY PLAN FLOOR PLAN - BUILDING 10 - FIRST FLOOR - TELECOM EQUIPMENT PLAN		
EMT	ELECTRICAL METALLIC TUBING		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.					25. NEW CAT 6A CABLES ARE TO BE PROVIDED FOR WIRELESS ACCESS POINTS. CABLES ARE TO BE TERMINATED UTILIZING SURFACE MOUNT "BISCUIT" JACK OR MODULAR PLUG TERMINATED LINK (MPTL). 10 FT. MINIMUM SERVICE LOOP TO BE PROVIDED AT OUTLET LOCATION. WIRELESS ACCESS POINT LOCATIONS SHOWN ON DRAWINGS FOR REFERENCE.	26. CONTRACTOR TO PROVIDE WIRE BASKET STYLE CABLE TRAY AS SPECIFIED. EXISTING CABLE TRAY MAY BE UTILIZED IF FOUND TO MEET SPECIFICATIONS AND SUPPORT CABLE WITHOUT EXCEEDING PERMISSIBLE 40% FILL RATIO. ALL CABLE TRAY IS TO BE BONDED TOGETHER WITH BONDING CONDUCTORS AND THE SYSTEM BONDED TO THE BONDING BUSBAR. ALL EXISTING ACTIVE CABLING IS TO REMAIN IN PLACE UNTIL NEW CAT6A CABLING IS INSTALLED, CERTIFIED, AND MADE ACTIVE. AFTER NEW CABLING IS MADE ACTIVE AND ACCEPTED, THE NO LONGER USED CABLING AND ASSOCIATED SUPPORTS ARE TO BE REMOVED AND PENETRATIONS PATCHED ACCORDINGLY. IF EXISTING CABLE TRAY IS UTILIZED IN-UEU OF NEW, CONTRACTOR TO PROVIDE A CREDIT TO THE VA FOR THE AMOUNT OF CABLE TRAY NOT PROVIDED. ALL CABLE TRAY SHALL BE DOCUMENTED, INCLUDING TYPE, SIZE, AND LOCATION AND INCLUDED AS PART OF CONTRACTOR'S AS-BUILT SUBMITTALS.
ENCL	ENCLOSURE		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.	27. CONTRACTOR SHALL MAINTAIN A MAXIMUM OF 40% RACEWAY FILL FACTOR.	28. CONTRACTOR TO LOCATE EXISTING REINFORCING PRIOR TO DRILLING CORES FOR CONDUITS. DO NOT OUT REINFORCING. CORES SHALL HAVE 4" CLEAR MINIMUM BETWEEN THEM. ADJUST CORE LOCATIONS AS NEEDED. AT LOCATIONS WITH MORE THAN (2) CORES GOING THROUGH A CMU WALL, SPACE CORES AT 16" MINIMUM.	BUILDING 12 12-T000.A 12-T000.B 12-T000.C 12-T001.A 12-T001.B 12-T001.C 12-T002.A 12-T002.B 12-T002.C 12-T003.A 12-T003.B 12-T003.C 12-T400EP 12-T401EP 12-T402EP	FLOOR PLAN - BUILDING 12 - BASEMENT - ROUTING PLAN FLOOR PLAN - BUILDING 12 - BASEMENT - ZONING PLAN FLOOR PLAN - BUILDING 12 - BASEMENT - CABLE TRAY PLAN FLOOR PLAN - BUILDING 12 - FIRST FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 12 - FIRST FLOOR - ZONING PLAN FLOOR PLAN - BUILDING 12 - FIRST FLOOR - CABLE TRAY PLAN FLOOR PLAN - BUILDING 12 - SECOND FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 12 - SECOND FLOOR - ZONING PLAN FLOOR PLAN - BUILDING 12 - SECOND FLOOR - CABLE TRAY PLAN FLOOR PLAN - BUILDING 12 - THIRD FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 12 - THIRD FLOOR - ZONING PLAN FLOOR PLAN - BUILDING 12 - THIRD FLOOR - CABLE TRAY PLAN FLOOR PLAN - BUILDING 12 - BASEMENT - TELECOM ROOM EQUIPMENT PLAN FLOOR PLAN - BUILDING 12 - FIRST FLOOR - TELECOM ROOM EQUIPMENT PLAN FLOOR PLAN - BUILDING 12 - SECOND FLOOR - TELECOM ROOM EQUIPMENT PLAN FLOOR PLAN - BUILDING 12 - THIRD FLOOR - TELECOM ROOM EQUIPMENT PLAN		
FLEX	FLEXIBLE METALLIC CONDUIT		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.					29. CONTRACTOR SHALL MAINTAIN A MAXIMUM OF 40% RACEWAY FILL FACTOR.	30. CONTRACTOR TO LOCATE EXISTING REINFORCING PRIOR TO DRILLING CORES FOR CONDUITS. DO NOT OUT REINFORCING. CORES SHALL HAVE 4" CLEAR MINIMUM BETWEEN THEM. ADJUST CORE LOCATIONS AS NEEDED. AT LOCATIONS WITH MORE THAN (2) CORES GOING THROUGH A CMU WALL, SPACE CORES AT 16" MINIMUM.
FT	FT OR FOOT		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.	31. ANY AND ALL PERSONNEL ENTERING PATIENT MENTAL HEALTH WARD MUST HAVE ADDITIONAL TRAINING AND APPROVAL FROM NURSE MANAGER PRIOR TO ENTERING AREA.	32. IF FLOOR OR RATED WALL PENETRATIONS CANNOT BE FIREFSTOPPED AT THE END OF THE WORK SHIFT DUE TO THE NEED TO PULL ADDITIONAL CABLES, TEMPORARY FIREFSTOPPING COMPOSED OF MINERAL WOOL SHOULD BE INSTALLED IN THE PENETRATION TO PROVIDE PROTECTION AGAINST FIRE/SMOKE SPREAD THROUGH THE UNSEALED PENETRATION.	BUILDING 21 21-T001 21-T002 21-T402EP	FLOOR PLAN - BUILDING 21 - FIRST FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 21 - SECOND FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 21 - SECOND FLOOR - TELECOM ROOM EQUIPMENT PLAN		
G OR GND	GROUND OR GENERATOR		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.					33. ALL NEWLY INSTALLED DUCT BANKS SHALL BE PROVIDED WITH TRACER WIRES.	34. ESTIMATED AVERAGE CABLE LENGTHS PROVIDED FOR REFERENCE ONLY. CONTRACTOR IS SOLELY RESPONSIBLE FOR CABLE LENGTHS AND PROVIDING A COMPLETE INSTALLATION AS DESCRIBED THROUGHOUT THE CONTRACT DOCUMENTS.
HZ	HERTZ		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.	35. NEW CAT 6A CABLES ARE TO BE PROVIDED FOR WIRELESS ACCESS POINTS. CABLES ARE TO BE TERMINATED UTILIZING SURFACE MOUNT "BISCUIT" JACK OR MODULAR PLUG TERMINATED LINK (MPTL). 10 FT. MINIMUM SERVICE LOOP TO BE PROVIDED AT OUTLET LOCATION. WIRELESS ACCESS POINT LOCATIONS SHOWN ON DRAWINGS FOR REFERENCE.	36. CONTRACTOR TO PROVIDE WIRE BASKET STYLE CABLE TRAY AS SPECIFIED. EXISTING CABLE TRAY MAY BE UTILIZED IF FOUND TO MEET SPECIFICATIONS AND SUPPORT CABLE WITHOUT EXCEEDING PERMISSIBLE 40% FILL RATIO. ALL CABLE TRAY IS TO BE BONDED TOGETHER WITH BONDING CONDUCTORS AND THE SYSTEM BONDED TO THE BONDING BUSBAR. ALL EXISTING ACTIVE CABLING IS TO REMAIN IN PLACE UNTIL NEW CAT6A CABLING IS INSTALLED, CERTIFIED, AND MADE ACTIVE. AFTER NEW CABLING IS MADE ACTIVE AND ACCEPTED, THE NO LONGER USED CABLING AND ASSOCIATED SUPPORTS ARE TO BE REMOVED AND PENETRATIONS PATCHED ACCORDINGLY. IF EXISTING CABLE TRAY IS UTILIZED IN-UEU OF NEW, CONTRACTOR TO PROVIDE A CREDIT TO THE VA FOR THE AMOUNT OF CABLE TRAY NOT PROVIDED. ALL CABLE TRAY SHALL BE DOCUMENTED, INCLUDING TYPE, SIZE, AND LOCATION AND INCLUDED AS PART OF CONTRACTOR'S AS-BUILT SUBMITTALS.	BUILDING 25 25-T001.A 25-T001.C 25-T401EP	FLOOR PLAN - BUILDING 25 - FIRST FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 25 - FIRST FLOOR - CABLE TRAY PLAN FLOOR PLAN - BUILDING 25 - FIRST FLOOR - TELECOM ROOM EQUIPMENT PLAN		
IMC	INTERMEDIATE METAL CONDUIT		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.					37. CONTRACTOR SHALL MAINTAIN A MAXIMUM OF 40% RACEWAY FILL FACTOR.	38. CONTRACTOR TO LOCATE EXISTING REINFORCING PRIOR TO DRILLING CORES FOR CONDUITS. DO NOT OUT REINFORCING. CORES SHALL HAVE 4" CLEAR MINIMUM BETWEEN THEM. ADJUST CORE LOCATIONS AS NEEDED. AT LOCATIONS WITH MORE THAN (2) CORES GOING THROUGH A CMU WALL, SPACE CORES AT 16" MINIMUM.
IR	INFRARED		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.	39. CONTRACTOR SHALL MAINTAIN A MAXIMUM OF 40% RACEWAY FILL FACTOR.	40. CONTRACTOR TO LOCATE EXISTING REINFORCING PRIOR TO DRILLING CORES FOR CONDUITS. DO NOT OUT REINFORCING. CORES SHALL HAVE 4" CLEAR MINIMUM BETWEEN THEM. ADJUST CORE LOCATIONS AS NEEDED. AT LOCATIONS WITH MORE THAN (2) CORES GOING THROUGH A CMU WALL, SPACE CORES AT 16" MINIMUM.	BUILDING 27 27-T001 27-T401EP	FLOOR PLAN - BUILDING 27 - FIRST FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 27 - FIRST FLOOR - CABLE TRAY PLAN FLOOR PLAN - BUILDING 27 - FIRST FLOOR - TELECOM ROOM EQUIPMENT PLAN		
J-BOX	JUNCTION BOX		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.					41. ANY AND ALL PERSONNEL ENTERING PATIENT MENTAL HEALTH WARD MUST HAVE ADDITIONAL TRAINING AND APPROVAL FROM NURSE MANAGER PRIOR TO ENTERING AREA.	42. IF FLOOR OR RATED WALL PENETRATIONS CANNOT BE FIREFSTOPPED AT THE END OF THE WORK SHIFT DUE TO THE NEED TO PULL ADDITIONAL CABLES, TEMPORARY FIREFSTOPPING COMPOSED OF MINERAL WOOL SHOULD BE INSTALLED IN THE PENETRATION TO PROVIDE PROTECTION AGAINST FIRE/SMOKE SPREAD THROUGH THE UNSEALED PENETRATION.
LF	LINEAR FEET (FOOT)		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.	43. ALL NEWLY INSTALLED DUCT BANKS SHALL BE PROVIDED WITH TRACER WIRES.	44. ESTIMATED AVERAGE CABLE LENGTHS PROVIDED FOR REFERENCE ONLY. CONTRACTOR IS SOLELY RESPONSIBLE FOR CABLE LENGTHS AND PROVIDING A COMPLETE INSTALLATION AS DESCRIBED THROUGHOUT THE CONTRACT DOCUMENTS.	BUILDING 29 29-T001 29-T401EP	FLOOR PLAN - BUILDING 29 - FIRST FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 29 - FIRST FLOOR - CABLE TRAY PLAN FLOOR PLAN - BUILDING 29 - FIRST FLOOR - TELECOM ROOM EQUIPMENT PLAN		
LV	LOW VOLTAGE		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.					45. NEW CAT 6A CABLES ARE TO BE PROVIDED FOR WIRELESS ACCESS POINTS. CABLES ARE TO BE TERMINATED UTILIZING SURFACE MOUNT "BISCUIT" JACK OR MODULAR PLUG TERMINATED LINK (MPTL). 10 FT. MINIMUM SERVICE LOOP TO BE PROVIDED AT OUTLET LOCATION. WIRELESS ACCESS POINT LOCATIONS SHOWN ON DRAWINGS FOR REFERENCE.	46. CONTRACTOR TO PROVIDE WIRE BASKET STYLE CABLE TRAY AS SPECIFIED. EXISTING CABLE TRAY MAY BE UTILIZED IF FOUND TO MEET SPECIFICATIONS AND SUPPORT CABLE WITHOUT EXCEEDING PERMISSIBLE 40% FILL RATIO. ALL CABLE TRAY IS TO BE BONDED TOGETHER WITH BONDING CONDUCTORS AND THE SYSTEM BONDED TO THE BONDING BUSBAR. ALL EXISTING ACTIVE CABLING IS TO REMAIN IN PLACE UNTIL NEW CAT6A CABLING IS INSTALLED, CERTIFIED, AND MADE ACTIVE. AFTER NEW CABLING IS MADE ACTIVE AND ACCEPTED, THE NO LONGER USED CABLING AND ASSOCIATED SUPPORTS ARE TO BE REMOVED AND PENETRATIONS PATCHED ACCORDINGLY. IF EXISTING CABLE TRAY IS UTILIZED IN-UEU OF NEW, CONTRACTOR TO PROVIDE A CREDIT TO THE VA FOR THE AMOUNT OF CABLE TRAY NOT PROVIDED. ALL CABLE TRAY SHALL BE DOCUMENTED, INCLUDING TYPE, SIZE, AND LOCATION AND INCLUDED AS PART OF CONTRACTOR'S AS-BUILT SUBMITTALS.
MAX	MAXIMUM		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.	47. CONTRACTOR SHALL MAINTAIN A MAXIMUM OF 40% RACEWAY FILL FACTOR.	48. CONTRACTOR TO LOCATE EXISTING REINFORCING PRIOR TO DRILLING CORES FOR CONDUITS. DO NOT OUT REINFORCING. CORES SHALL HAVE 4" CLEAR MINIMUM BETWEEN THEM. ADJUST CORE LOCATIONS AS NEEDED. AT LOCATIONS WITH MORE THAN (2) CORES GOING THROUGH A CMU WALL, SPACE CORES AT 16" MINIMUM.	BUILDING 31 31-T001 31-T401EP	FLOOR PLAN - BUILDING 31 - FIRST FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 31 - FIRST FLOOR - CABLE TRAY PLAN FLOOR PLAN - BUILDING 31 - FIRST FLOOR - TELECOM ROOM EQUIPMENT PLAN		
MECH	MECHANICAL		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.					49. CONTRACTOR SHALL MAINTAIN A MAXIMUM OF 40% RACEWAY FILL FACTOR.	50. CONTRACTOR TO LOCATE EXISTING REINFORCING PRIOR TO DRILLING CORES FOR CONDUITS. DO NOT OUT REINFORCING. CORES SHALL HAVE 4" CLEAR MINIMUM BETWEEN THEM. ADJUST CORE LOCATIONS AS NEEDED. AT LOCATIONS WITH MORE THAN (2) CORES GOING THROUGH A CMU WALL, SPACE CORES AT 16" MINIMUM.
MH	MANHOLE		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.	51. ANY AND ALL PERSONNEL ENTERING PATIENT MENTAL HEALTH WARD MUST HAVE ADDITIONAL TRAINING AND APPROVAL FROM NURSE MANAGER PRIOR TO ENTERING AREA.	52. IF FLOOR OR RATED WALL PENETRATIONS CANNOT BE FIREFSTOPPED AT THE END OF THE WORK SHIFT DUE TO THE NEED TO PULL ADDITIONAL CABLES, TEMPORARY FIREFSTOPPING COMPOSED OF MINERAL WOOL SHOULD BE INSTALLED IN THE PENETRATION TO PROVIDE PROTECTION AGAINST FIRE/SMOKE SPREAD THROUGH THE UNSEALED PENETRATION.	BUILDING 33 33-T001 33-T401EP	FLOOR PLAN - BUILDING 33 - FIRST FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 33 - FIRST FLOOR - CABLE TRAY PLAN FLOOR PLAN - BUILDING 33 - FIRST FLOOR - TELECOM ROOM EQUIPMENT PLAN		
MIN	MINIMUM		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.					53. ALL NEWLY INSTALLED DUCT BANKS SHALL BE PROVIDED WITH TRACER WIRES.	54. ESTIMATED AVERAGE CABLE LENGTHS PROVIDED FOR REFERENCE ONLY. CONTRACTOR IS SOLELY RESPONSIBLE FOR CABLE LENGTHS AND PROVIDING A COMPLETE INSTALLATION AS DESCRIBED THROUGHOUT THE CONTRACT DOCUMENTS.
NA	NOT APPLICABLE		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.	55. NEW CAT 6A CABLES ARE TO BE PROVIDED FOR WIRELESS ACCESS POINTS. CABLES ARE TO BE TERMINATED UTILIZING SURFACE MOUNT "BISCUIT" JACK OR MODULAR PLUG TERMINATED LINK (MPTL). 10 FT. MINIMUM SERVICE LOOP TO BE PROVIDED AT OUTLET LOCATION. WIRELESS ACCESS POINT LOCATIONS SHOWN ON DRAWINGS FOR REFERENCE.	56. CONTRACTOR TO PROVIDE WIRE BASKET STYLE CABLE TRAY AS SPECIFIED. EXISTING CABLE TRAY MAY BE UTILIZED IF FOUND TO MEET SPECIFICATIONS AND SUPPORT CABLE WITHOUT EXCEEDING PERMISSIBLE 40% FILL RATIO. ALL CABLE TRAY IS TO BE BONDED TOGETHER WITH BONDING CONDUCTORS AND THE SYSTEM BONDED TO THE BONDING BUSBAR. ALL EXISTING ACTIVE CABLING IS TO REMAIN IN PLACE UNTIL NEW CAT6A CABLING IS INSTALLED, CERTIFIED, AND MADE ACTIVE. AFTER NEW CABLING IS MADE ACTIVE AND ACCEPTED, THE NO LONGER USED CABLING AND ASSOCIATED SUPPORTS ARE TO BE REMOVED AND PENETRATIONS PATCHED ACCORDINGLY. IF EXISTING CABLE TRAY IS UTILIZED IN-UEU OF NEW, CONTRACTOR TO PROVIDE A CREDIT TO THE VA FOR THE AMOUNT OF CABLE TRAY NOT PROVIDED. ALL CABLE TRAY SHALL BE DOCUMENTED, INCLUDING TYPE, SIZE, AND LOCATION AND INCLUDED AS PART OF CONTRACTOR'S AS-BUILT SUBMITTALS.	BUILDING 35 35-T001 35-T401EP	FLOOR PLAN - BUILDING 35 - FIRST FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 35 - FIRST FLOOR - CABLE TRAY PLAN FLOOR PLAN - BUILDING 35 - FIRST FLOOR - TELECOM ROOM EQUIPMENT PLAN		
NEC	NATIONAL ELECTRICAL CODE		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.					57. CONTRACTOR SHALL MAINTAIN A MAXIMUM OF 40% RACEWAY FILL FACTOR.	58. CONTRACTOR TO LOCATE EXISTING REINFORCING PRIOR TO DRILLING CORES FOR CONDUITS. DO NOT OUT REINFORCING. CORES SHALL HAVE 4" CLEAR MINIMUM BETWEEN THEM. ADJUST CORE LOCATIONS AS NEEDED. AT LOCATIONS WITH MORE THAN (2) CORES GOING THROUGH A CMU WALL, SPACE CORES AT 16" MINIMUM.
NIC	NOT IN CONTRACT		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.	59. CONTRACTOR SHALL MAINTAIN A MAXIMUM OF 40% RACEWAY FILL FACTOR.	60. CONTRACTOR TO LOCATE EXISTING REINFORCING PRIOR TO DRILLING CORES FOR CONDUITS. DO NOT OUT REINFORCING. CORES SHALL HAVE 4" CLEAR MINIMUM BETWEEN THEM. ADJUST CORE LOCATIONS AS NEEDED. AT LOCATIONS WITH MORE THAN (2) CORES GOING THROUGH A CMU WALL, SPACE CORES AT 16" MINIMUM.	BUILDING 37 37-T001 37-T401EP	FLOOR PLAN - BUILDING 37 - FIRST FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 37 - FIRST FLOOR - CABLE TRAY PLAN FLOOR PLAN - BUILDING 37 - FIRST FLOOR - TELECOM ROOM EQUIPMENT PLAN		
NTS	NOT TO SCALE		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.					61. ANY AND ALL PERSONNEL ENTERING PATIENT MENTAL HEALTH WARD MUST HAVE ADDITIONAL TRAINING AND APPROVAL FROM NURSE MANAGER PRIOR TO ENTERING AREA.	62. IF FLOOR OR RATED WALL PENETRATIONS CANNOT BE FIREFSTOPPED AT THE END OF THE WORK SHIFT DUE TO THE NEED TO PULL ADDITIONAL CABLES, TEMPORARY FIREFSTOPPING COMPOSED OF MINERAL WOOL SHOULD BE INSTALLED IN THE PENETRATION TO PROVIDE PROTECTION AGAINST FIRE/SMOKE SPREAD THROUGH THE UNSEALED PENETRATION.
OD	OUTSIDE DIAMETER		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.	63. ALL NEWLY INSTALLED DUCT BANKS SHALL BE PROVIDED WITH TRACER WIRES.	64. ESTIMATED AVERAGE CABLE LENGTHS PROVIDED FOR REFERENCE ONLY. CONTRACTOR IS SOLELY RESPONSIBLE FOR CABLE LENGTHS AND PROVIDING A COMPLETE INSTALLATION AS DESCRIBED THROUGHOUT THE CONTRACT DOCUMENTS.	BUILDING 39 39-T001 39-T401EP	FLOOR PLAN - BUILDING 39 - FIRST FLOOR - ROUTING PLAN FLOOR PLAN - BUILDING 39 - FIRST FLOOR - CABLE TRAY PLAN FLOOR PLAN - BUILDING 39 - FIRST FLOOR - TELECOM ROOM EQUIPMENT PLAN		
PA	PUBLIC ADDRESS		TERMINATED LINK (MPTL) WITH 10 FT. SERVICE LOOP.					65. NEW CAT 6A CABLES ARE TO BE PROVIDED FOR WIRELESS ACCESS POINTS. CABLES ARE TO BE	



NOTES

1- THE EXISTING TELECOM INFRASTRUCTURE SHALL BE USED FOR FIBER OPTIC ROUTE A TO CAMPUS BUILDINGS, EXCEPT FOR THE ROUTE A TO BUILDINGS 4 & 27 WHICH IS USING A NEWLY PROPOSED DUCT BANK.

2- THE NEWLY PROPOSED TELECOM INFRASTRUCTURE SHALL BE USED FOR FIBER OPTIC ROUTE B TO CAMPUS BUILDINGS, EXCEPT FOR THE ROUTE A TO BUILDINGS 4 & 27 WHICH IS USING A NEWLY PROPOSED DUCT BANK.

3- FOR EXACT LOCATION OF THE NEW DUCT BANK INFRASTRUCTURE AND MANHOLES DETAILS, REFER TO CIVIL DESIGN DRAWINGS.

4- PROVIDE 3-4" CONDUITS FROM THE CRAWLSPACE OF BUILDING 1 TO THE SECOND FLOOR COMMUNICATIONS ROOM IN BUILDING 4. CONDUITS SHALL EXTEND THROUGH THE CRAWLSPACES TO THE TELECOMMUNICATIONS ROOM IN THE BASEMENT OF BUILDING 1 AND TO THE SECOND FLOOR COMMUNICATIONS ROOM IN BUILDING 4. ALIGN BORE AND SLEEVE CONDUITS UNDER LOADING DOCK AND PARKING AREA PAVED ACCESS ROAD. PROVIDE 3 - 1 1/2" INNERDUCTS IN TWO OF THE 4" CONDUITS. PROVIDE A 100 PAIR TELEPHONE BACKBONE CABLE AND TERMINATE ON THE EXISTING PUNCHDOWN BLOCKS IN BUILDINGS 1 AND 4. PROVIDE SURGE PROTECTIVE DEVICES IN BUILDING 1 AND 4. PROVIDE AN RG-11 COAX TRUNK CABLE FROM THE CATV DEMARCATION POINT IN BUILDING 1 TO THE COMMUNICATION ROOM IN BUILDING 4. TERMINATE WITH F-SERIES CONNECTORS ON THE EXISTING EQUIPMENT IN BOTH BUILDINGS. PROVIDE A 12 CONDUCTOR MULTIMODE FIBER OPTIC CABLE AND A 12 CONDUCTOR SINGLE MODE FIBER OPTIC CABLE BETWEEN THE DATA ROOM IN BUILDING 1 AND THE TELECOM ROOM ON THE SECOND FLOOR OF BUILDING 4. TERMINATE FIBERS ONTO EXISTING EQUIPMENT IN BOTH BUILDINGS. PROVIDE A 4 CONDUCTOR MULTIMODE FIBER OPTIC CABLE IN A SEPARATE INNERDUCT FOR FIRE ALARM. TERMINATE AT A FIRE ALARM PANEL IN BUILDING 1 AND BUILDING 4 TO MAKE A LOOPED SYSTEM BETWEEN FIRE ALARM PANELS. CABLES SHALL BE INSTALLED, TERMINATED AND TESTED BEFORE THE EXISTING CABLE TRAY OR DUCT BANK INSTALLED COMMUNICATION CABLES CAN BE REMOVED.

5- ALL NEWLY INSTALLED DUCT BANKS SHALL BE PROVIDED WITH TRACER WIRES.

LEGEND

— B — NEW 2x2 4" CONDUIT DUCT BANK FOR FIBER OPTIC ROUTE B

— B — NEW 1x2 2" CONDUIT DUCT BANK FOR FIBER OPTIC ROUTE B

— A — NEW 1x2 2" CONDUIT DUCT BANK FOR FIBER OPTIC ROUTE A

— A — NEW 1x3 4" CONDUIT DUCT BANK FOR FIBER OPTIC ROUTE A

— A — EXISTING TELECOM DUCT BANK FOR FIBER OPTIC ROUTE A

MH MANHOLE

HH HANDHOLE

1 TELECOMMUNICATION - SITE PLAN

ISSUE FOR BID FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 3 FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 2 FINAL CONSTRUCTION DOCUMENTS RESUBMISSION + MOD 2 FINAL CONSTRUCTION DOCUMENTS SUBMISSION 100% CONSTRUCTION DOCUMENTS SUBMISSION 95% CONSTRUCTION DEVELOPMENT SUBMISSION 65% DESIGN DEVELOPMENT SUBMISSION 35% DESIGN DEVELOPMENT SUBMISSION Revisions:		09/02/2022 08/09/2022 06/27/2022 06/10/2022 03/28/2022 03/14/2022 02/10/2022 12/09/2021 10/07/2021 Date:
CONSULTANT Telecom: Bright Tree Studios 301 Brush Creek Road Warrendale, PA 15238 (412)-212-7515		
ARCHITECT/ENGINEER OF RECORD BANCROFT ARCHITECTS + ENGINEERS VA CONTRACT NO. 36C26319D0044 3300 Dundee Road Northbrook, IL 60062 T: 847.952.9362 www.bancroft-ae.com BAE PROJECT NO. 18-121		STAMP
Office of Construction and Facilities Management U.S. Department of Veterans Affairs		
Drawing Title TELECOMMUNICATIONS - SITE PLAN		Phase CONSTRUCTION DOCUMENTS
Approved: Project Director		
		FULLY SPRINKLERED
Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 636A6-21-101
Location DES MOINES, IOWA		Building Number 1, 2, 3, 4, 5, 6M, 7M, 9, 10, 11, 12, 21, 24, 25, 27, & 28
Issue Date 09/02/2022		Drawing Number 00-T002
Checked BY		Drawn CF

A

B

C

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A

B

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ROUTE "A" UP TO TR 1720, 1638 & 2642. PROVIDE CORES AND TWO (2) 4" CONDUITS TO LEVEL 1 CEILING. PROVIDE BUSHINGS AND FIRESTOP PER NFPA.

ROUTE "B" TO TR 1952 IN BUILDING 3, TRs C000, A100A, A200A, A300A IN BUILDING 12, TR 1037 IN BUILDING 25, TR 217 IN BUILDING 5, TR 140 IN BUILDING 6 & TR 177 IN BUILDING 7. FOR CONTINUATION, REFER TO DWG. 00-T002.

ROUTE "B" TO TR B413 FROM THE FIRST FLOOR

ROUTE "B" TO TR B202A FROM THE FIRST FLOOR

ROUTE "A" TO TR 1952 IN BUILDING 3 THROUGH THE EXISTING TELECOM INFRASTRUCTURE. FOR CONTINUATION, REFER TO DWG. 00-T002

ROUTE "A" TO TR 217 IN BUILDING 5, TR 140 IN BUILDING 6 & TR 177 IN BUILDING 7 THROUGH THE EXISTING TELECOM INFRASTRUCTURE (EXACT LOCATION TO BE IDENTIFIED). FOR CONTINUATION, REFER TO DWG. 00-T002

ROUTE "A" UP TO TR 2003. PROVIDE CORES AND TWO (2) 4" CONDUITS TO LEVEL 1 CEILING. PROVIDE BUSHINGS AND FIRESTOP PER NFPA.

ROUTE "A" TO TR A03 IN BUILDING 28 THROUGH THE EXISTING INFRASTRUCTURE CONNECTIVITY. FOR CONTINUATION, REFER TO DWG. 00-T002

EXISTING SERVICE ENTRANCE ROUTE INTO THE DATA CENTER.

ROUTE "B" UP TO TR B202A, B413, B021B, 1718, 1500, 1352, 1386, 2642, 2325, 2405, 2003, 3407, 4407, 4315 AND 1019 (BUILDING 27). PROVIDE CORES AND FOUR (4) 4" CONDUITS TO LEVEL 1 CEILING. PROVIDE BUSHINGS AND FIRESTOP PER NFPA.

ROUTE "A" UP TO TR 1500. PROVIDE CORES AND TWO (2) 4" CONDUITS TO LEVEL 1 CEILING. PROVIDE BUSHINGS AND FIRESTOP PER NFPA.

ROUTE "A" TO TR 0500A

ROUTE "B" TO TR 0500A

ROUTE "B" TO TR 1141 & TR 2109 IN BUILDING 4. FOR CONTINUATION, REFER TO DWG. 00-T002.

ROUTE "A" TO TR 1141 & TR 2109 IN BUILDING 4. FOR CONTINUATION, REFER TO DWG. 00-T002.

HORIZONTAL CABLE DISTRIBUTION QUANTITIES												
EXISTING TR	NEW TR	RACKS	VERTICAL CABLE MANAGERS	HORIZONTAL CABLE MANAGERS	1U 48P ANGLED CAT 6A PATCH PANELS	VERTICAL PDUs	30A ZONE PDUs	60A ZONE PDUs	5KW UPSs	QUANTITY OF CABLES TO BE REMOVED	QUANTITY OF CABLES TO BE REPLACED WITH CAT 6A	ESTIMATED AVERAGE CABLE LENGTH
MCR B409	MCR B409	1 (CABINET)*	0	7	6	2	0	0	0	216	216	90'
New	B413	2	3	14	3	4	1	0	2	0	120	140'
New	B202A	2	3	14	3	4	1	0	2	110	110	95
0500A	0500A	2	3	14	3	4	1	0	2	109	109	110'
1. Estimated average cable lengths provided for reference only. Contractor is solely responsible for cable lengths and providing a complete installation as described throughout the contract documents.												
2. All data horizontal station cabling to be new category 6A												
3. Refer to 01-T400EP for additional cabinets required at MCR B409												
4. GC to provide quantity of Cat6A patch cables (3 meter) equal to the "Quantity of Cables to be replaced with Cat 6A" for each TR and MCR												



1

BUILDING 1 - OVERALL BASEMENT ROUTING PLAN

1/16"=1'-0"

CONSULTANT

Telecom:
Bright Tree Studios
301 Brush Creek Road
Warrendale, PA 15238
(412)-212-7515

ARCHITECT/ENGINEER OF RECORD

Bancroft
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VA CONTRACT NO. 36C26319D0044
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Northbrook, IL 60062
T: 847.952.9362
BAE PROJECT NO. 18-121

STAMP

Office of
Construction
and Facilities
Management



U.S. Department
of Veterans Affairs

Drawing Title
TELECOMMUNICATIONS - BUILDING 1
- BASEMENT ROUTING PLAN

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE
UPGRADES

Location
DES MOINES, IOWA

Issue Date
09/02/2022

Checked
BY

Drawn
CF

Project Number
636A6-21-101

Building Number
1, 2, 3, 4, 5, 6M, 7M, 9, 10,
11, 12, 21, 24, 25, 27, & 28

Drawing Number

01-T000.A

Project Number
636A6-21-101
Building Number
1, 2, 3, 4, 5, 6M, 7M, 9, 10, 11, 12, 21, 24, 25, 27, & 28
Drawing Number
01-T000.B

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D

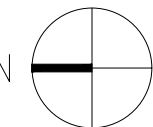
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VA FORM 08 - 6231



1

BUILDING 1 - OVERALL BASEMENT - CABLE TRAY PLAN

1/16"=1'-0"

CONSULTANT

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Bright Tree Studios
301 Brush Creek Road
Warrendale, PA 15238
(412)-212-7515

ARCHITECT/ENGINEER OF RECORD

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BAE PROJECT NO. 18-121

STAMP

Office of
Construction
and Facilities
Management



U.S. Department
of Veterans Affairs

Drawing Title
TELECOMMUNICATIONS - BUILDING 1
- BASEMENT CABLE TRAY PLAN

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE
UPGRADES

Location
DES MOINES, IOWA

Issue Date
09/02/2022

Checked
BY

Drawn
CF

Project Number
636A6-21-101
Building Number
1, 2, 3, 4, 5, 6M, 7M, 9, 10,
11, 12, 21-24, 25, 27, & 28
Drawing Number
01-T000.C

NOTES:

1. CONTRACTOR TO LOCATE EXISTING REINFORCING PRIOR TO DOING CORES FOR CONDUITS. DO NOT CUT REINFORCING. CORES SHALL HAVE 4" CLEAR MINIMUM BETWEEN THEM. ADJUST CORE LOCATIONS AS NEEDED. AT LOCATIONS WITH MORE THAN (2) CORES GOING THROUGH A CMU WALL, SPACE CORES AT 16" MINIMUM.
2. FOR CABLE TRAY GROUNDING, REFER TO DETAILS NO. 2, 3 & 4 ON SHEET TT-TD501.

PROVIDE CORES AND TWO (2) 2" CONDUITS THROUGH THE PERIMETER WALL TO INTERFACE WITH THE CAMPUS DUCT BANK INFRASTRUCTURE. FOR CONDUIT PENETRATION THROUGH BUILDING ENVELOPE, REFER TO DETAIL NO. 1 ON DWG. TT-TD507. FOR CONTINUATION, REFER TO DWG. 00-T002.

PROVIDE CORES AND TWO (2) 2" CONDUITS THROUGH THE PERIMETER WALL TO INTERFACE WITH THE CAMPUS DUCT BANK INFRASTRUCTURE. FOR CONDUIT PENETRATION THROUGH BUILDING ENVELOPE, REFER TO DETAIL NO. 1 ON DWG. TT-TD507. FOR CONTINUATION, REFER TO DWG. 00-T002.

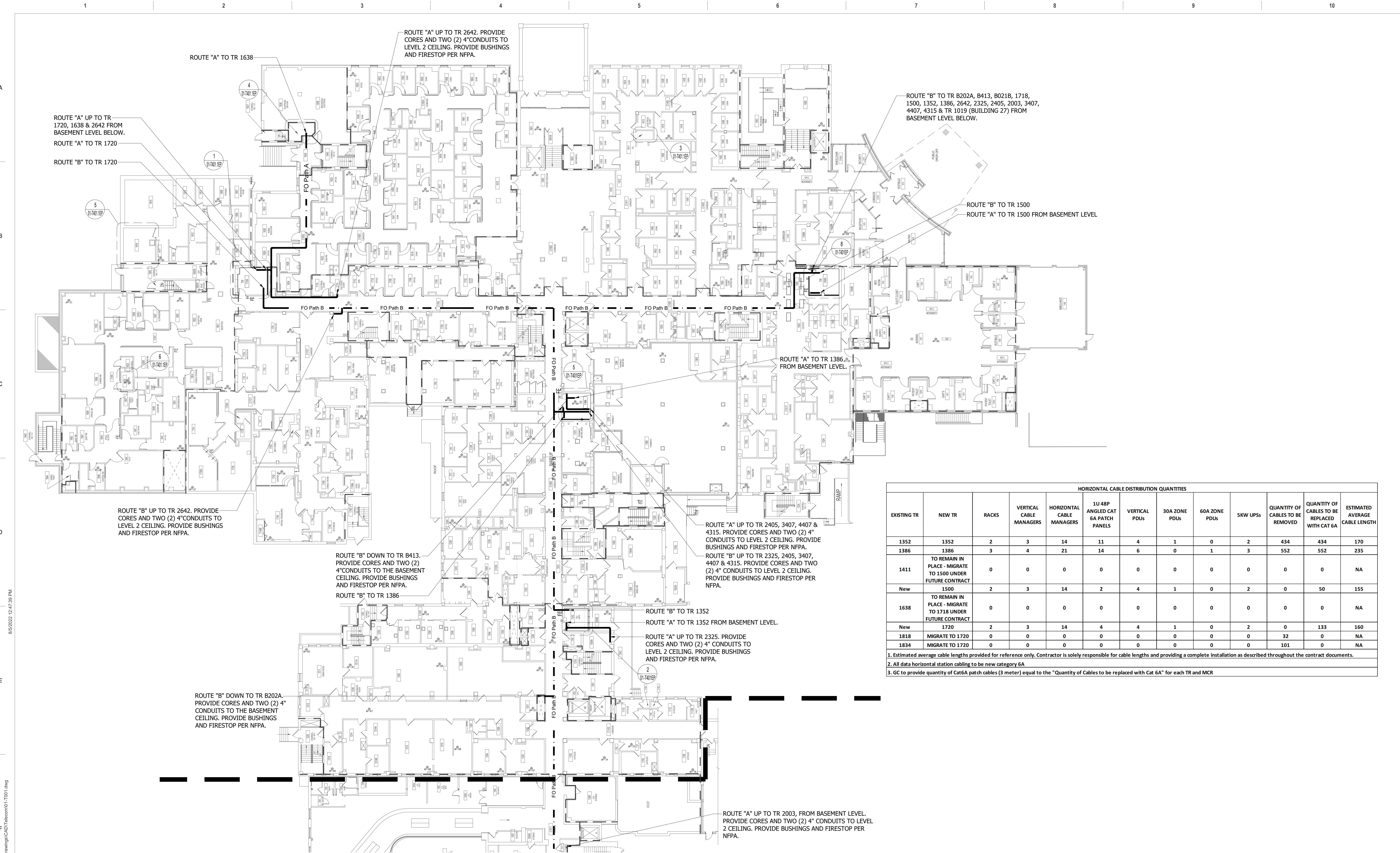
PROVIDE CORES AND FOUR (4) 4" CONDUITS IN A 2x2 CONFIGURATION THROUGH THE PERIMETER WALL TO INTERFACE WITH THE CAMPUS DUCT BANK INFRASTRUCTURE. FOR CONDUIT PENETRATION THROUGH BUILDING ENVELOPE, REFER TO DETAIL NO. 2 ON DWG. TT-TD507. FOR CONTINUATION, REFER TO DWG. 00-T002.

PROVIDE CORES AND FOUR (4) 4" CONDUITS IN A 2x2 CONFIGURATION THROUGH THE PERIMETER WALL TO INTERFACE WITH THE CAMPUS DUCT BANK INFRASTRUCTURE. FOR CONDUIT PENETRATION THROUGH BUILDING ENVELOPE, REFER TO DETAIL NO. 2 ON DWG. TT-TD507. FOR CONTINUATION, REFER TO DWG. 00-T002.

PROVIDE BASKET TYPE CABLE TRAY TO SUPPORT OPTICAL FIBER BACKBONE AND NEW CAT6A HORIZONTAL CABLING. CABLE TRAY TO BE SIZED AS PER DETAIL 2 ON SHEET TT-TD506 ASSUMING 40% FILL AND 50% SPARE CAPACITY.

ROUTING SHOWN INDICATES PRIMARY PATHWAYS. IN ADDITION TO PRIMARY PATHWAYS, CABLE TRAY SHALL BE PROVIDED FOR CABLE BUNDLES EXCEEDING 24 CABLES.

FIRE RATED MECHANICAL SLEEVE ASSEMBLIES SHALL BE PROVIDED WHEN PASSING THROUGH FIRE RATED PARTITIONS, ASSUMING 40% FILL AND 50% SPARE CAPACITY.



BUILDING 1 - OVERALL FIRST FLOOR ROUTING PLAN
1/16"=1'-0"

ISSUE FOR BID

FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 3

FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 2

FINAL CONSTRUCTION DOCUMENTS RESUBMISSION + MOD 2

FINAL CONSTRUCTION DOCUMENTS SUBMISSION

100% CONSTRUCTION DEVELOPMENT SUBMISSION

95% CONSTRUCTION DEVELOPMENT SUBMISSION

65% DESIGN DEVELOPMENT SUBMISSION

35% DESIGN DEVELOPMENT SUBMISSION

Revisions:

09/02/2022

08/09/2022

06/27/2022

06/10/2022

03/14/2022

02/10/2022

12/09/2021

10/07/2021

Date:

CONSULTANT

Telecom:

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ARCHITECT/ENGINEER OF RECORD

Bancroft

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VA CONTRACT NO. 36C26319D0044

BAE PROJECT NO. 18-121

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

TELECOMMUNICATIONS - BUILDING 1 - FIRST FLOOR ROUTING PLAN

Approved: Project Director

Phase

CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

EHRM INFRASTRUCTURE UPGRADES

Location

DES MOINES, IOWA

Issue Date

09/02/2022

Checked

BY

Drawn

CF

Project Number

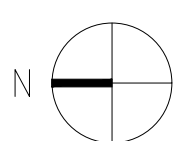
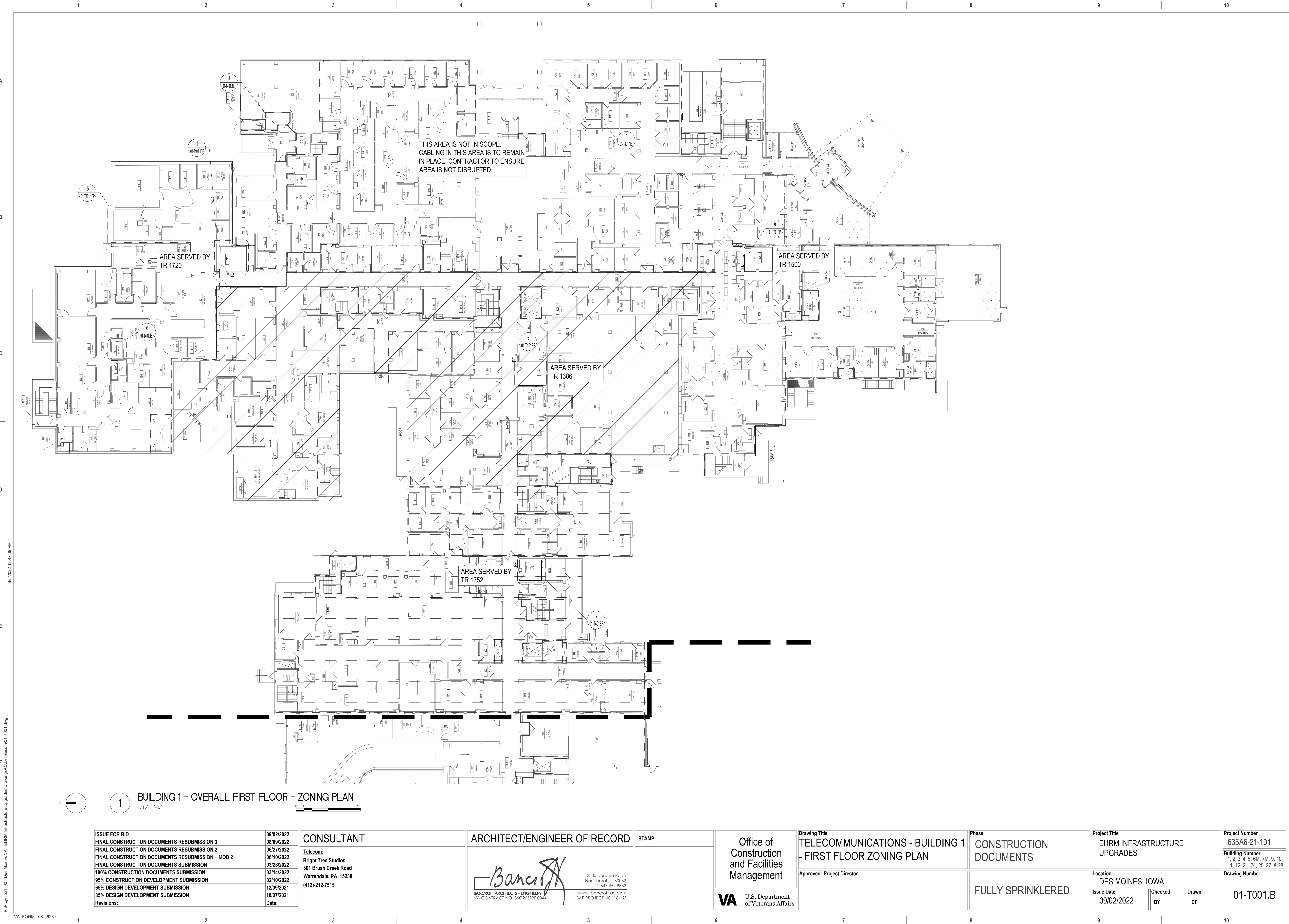
636A6-21-101

Building Number

1, 2, 3, 4, 5, 6M, 7M, 9, 10, 11, 12, 21, 24, 25, 27, & 28

Drawing Number

01-T001.A



1 BUILDING 1 - OVERALL FIRST FLOOR - ZONING PLAN
1/16"=1'-0"

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VA U.S. Department
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Drawing Title
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- FIRST FLOOR ZONING PLAN

Approved: Project Director

Phase
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DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE
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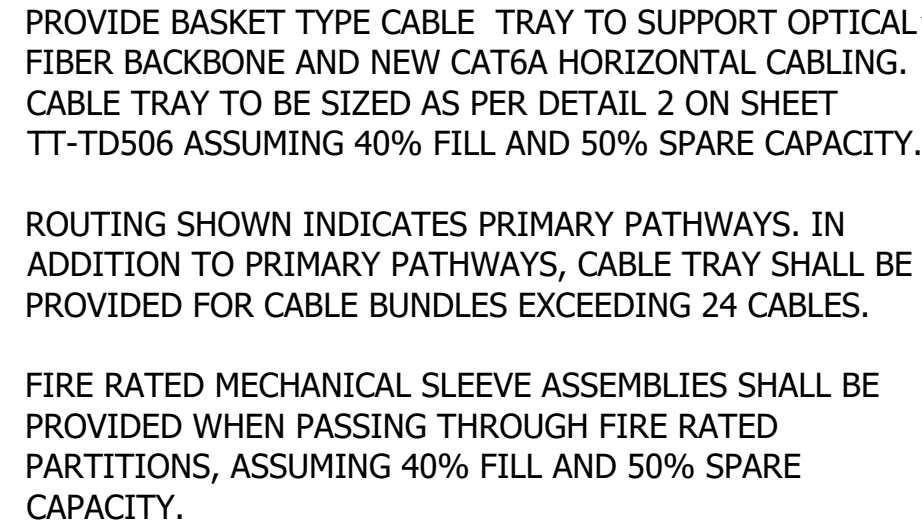
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Drawing Number
01-T001.B



A horizontal scale bar with tick marks at 0, 4, 8, 16, and 32 feet. The segments between 0-4, 4-8, and 8-16 are white, while the segment between 16-32 is black.

CONSULTANT

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Bancroft Architects + Engineers
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Office of
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Management

VA U.S. Department
of Veterans Affairs

Approved: Project Director

FULLY SPRINKLERED

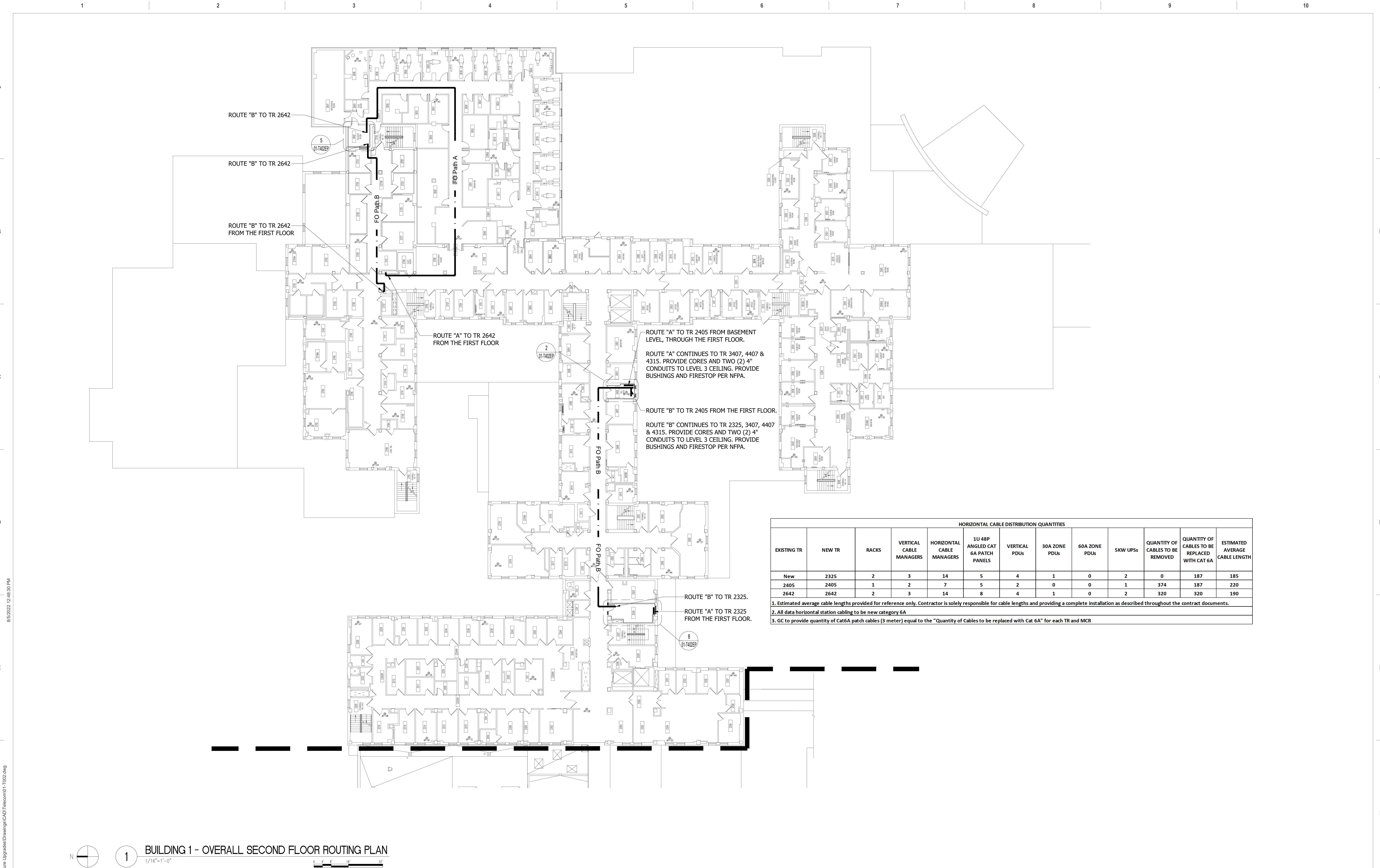
Location	DES MOINES, IOWA
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Issue Date	09/02/2022
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Checked
BY

Drawn
CF

Project Number	636A6-21-101
Building Number	1, 2, 3, 4, 5, 6M, 7M, 9, 10 11, 12, 21, 24, 25, 27, & 28
Drawing Number	01-T001.C



1

BUILDING 1 - OVERALL SECOND FLOOR ROUTING PLAN

1/16"=1'-0"

0 5 10 20

Feet

ISSUE FOR BID

09/02/2022

FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 3

08/09/2022

FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 2

06/27/2022

FINAL CONSTRUCTION DOCUMENTS RESUBMISSION + MOD 2

06/10/2022

FINAL CONSTRUCTION DOCUMENTS SUBMISSION

03/28/2022

100% CONSTRUCTION DEVELOPMENT SUBMISSION

03/14/2022

95% CONSTRUCTION DEVELOPMENT SUBMISSION

02/10/2022

65% DESIGN DEVELOPMENT SUBMISSION

12/09/2021

35% DESIGN DEVELOPMENT SUBMISSION

10/07/2021

Revisions:

Date:

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VA U.S. Department of Veterans Affairs

Drawing Title

TELECOMMUNICATIONS - BUILDING 1 - SECOND FLOOR ROUTING PLAN

Approved: Project Director

Phase

CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

EHRM INFRASTRUCTURE UPGRADES

Location

DES MOINES, IOWA

Issue Date

09/02/2022

Checked BY

Drawn CF

Project Number

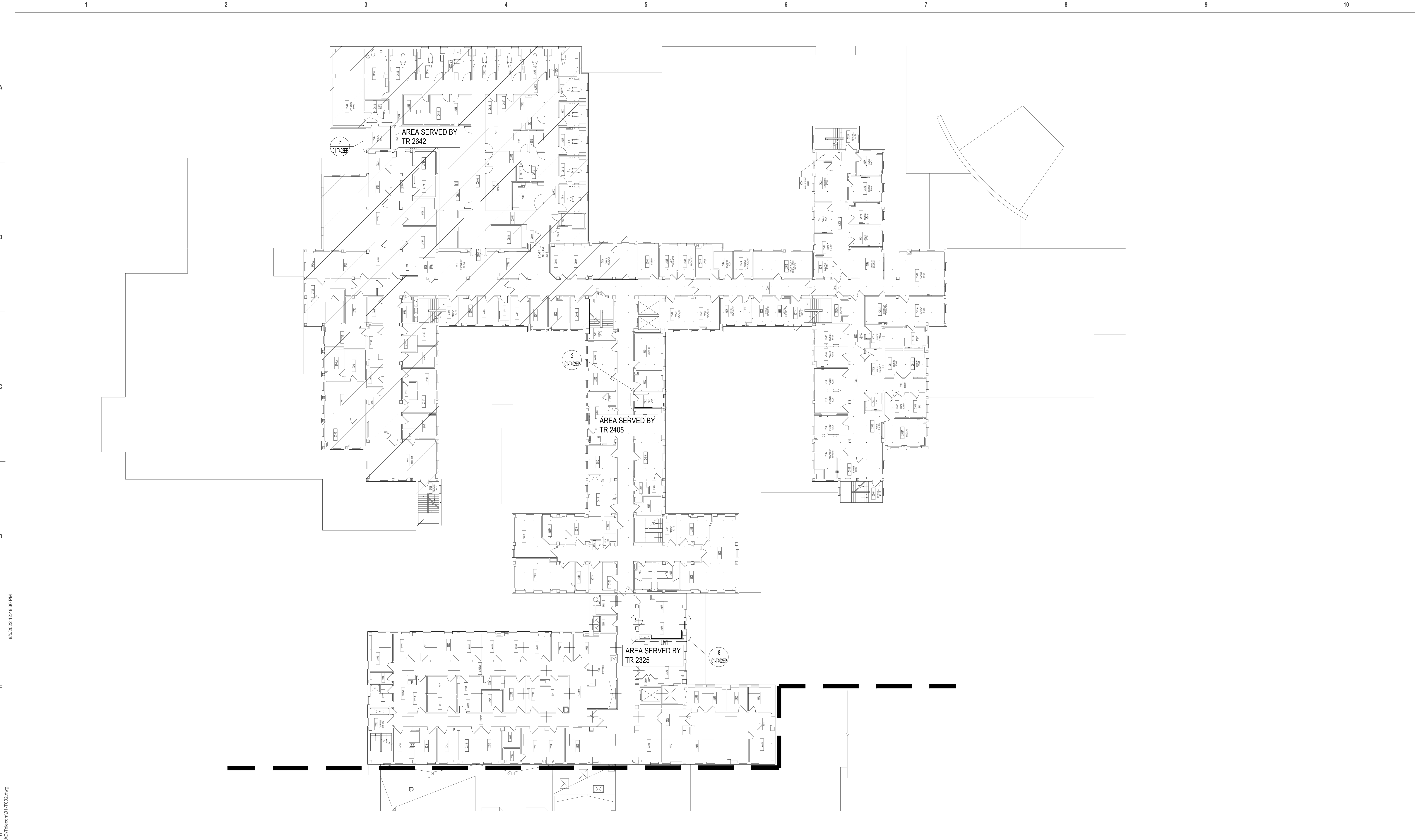
636A6-21-101

Building Number

1, 2, 3, 4, 5, 6M, 7M, 9, 10, 11, 12, 21, 24, 25, 27, & 28

Drawing Number

01-T002.A




1 BUILDING 1 - OVERALL SECOND FLOOR ZONING PLAN
1/16"=1'-0"

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ISSUE FOR BID	09/02/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 3	08/09/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 2	06/27/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION + MOD 2	06/10/2022
FINAL CONSTRUCTION DOCUMENTS SUBMISSION	03/28/2022
100% CONSTRUCTION DEVELOPMENT SUBMISSION	03/14/2022
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65% DESIGN DEVELOPMENT SUBMISSION	12/09/2021
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Revisions:	Date:

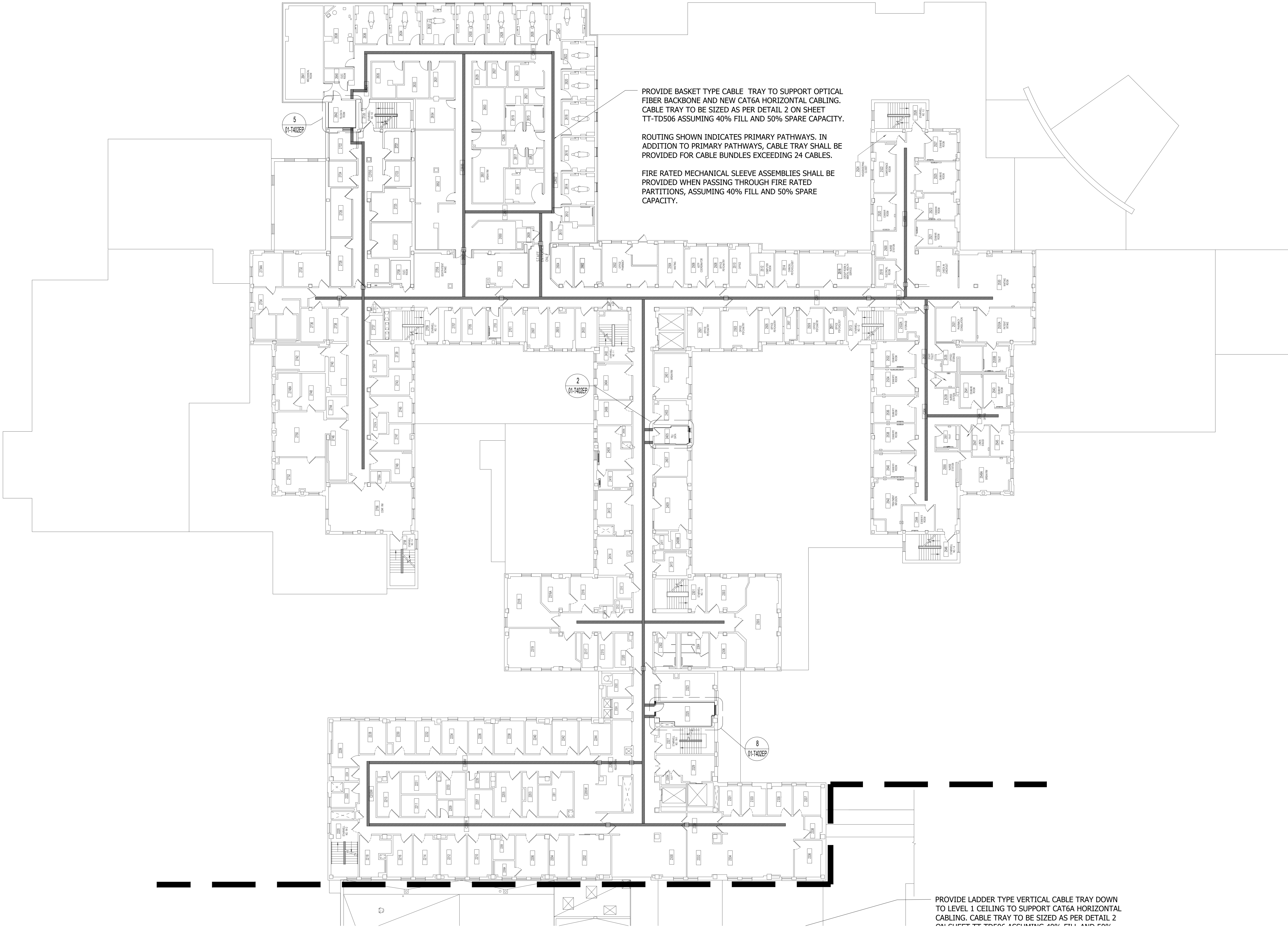
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ARCHITECT/ENGINEER OF RECORD

3300 Dundee Road Northbrook, IL 60062 T: 847.952.9362 www.bancroft-ae.com VA CONTRACT NO. 36C26319D0044 BAE PROJECT NO. 18-121
STAMP

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs
Drawing Title TELECOMMUNICATIONS - BUILDING 1 - SECOND FLOOR ZONING PLAN
Approved: Project Director

Phase CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title EHRM INFRASTRUCTURE UPGRADES
Location DES MOINES, IOWA
Issue Date 09/02/2022
Checked BY
Drawn CF
Project Number 636A6-21-101
Building Number 1, 2, 3, 4, 5, 6M, 7M, 9, 10, 11, 12, 21-24, 25, 27, & 28
Drawing Number 01-T002.B

- NOTES:
- CONTRACTOR TO LOCATE EXISTING REINFORCING PRIOR TO DOING CORES FOR CONDUITS. DO NOT CUT REINFORCING. CORES SHALL HAVE 4" CLEAR MINIMUM BETWEEN THEM. ADJUST CORE LOCATIONS AS NEEDED. AT LOCATIONS WITH MORE THAN (2) CORES GOING THROUGH A CMU WALL, SPACE CORES AT 16" MINIMUM.
 - FOR CABLE TRAY GROUNDING, REFER TO DETAILS NO. 2, 3 & 4 ON SHEET TT-TD501.



1 BUILDING 1 - OVERALL SECOND FLOOR - CABLE TRAY PLAN
1/16"=1'-0"

ISSUE FOR BID	09/02/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 3	08/09/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 2	06/27/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION + MOD 2	06/10/2022
FINAL CONSTRUCTION DOCUMENTS SUBMISSION	03/28/2022
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95% CONSTRUCTION DEVELOPMENT SUBMISSION	02/10/2022
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35% DESIGN DEVELOPMENT SUBMISSION	10/07/2021
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www.bancroft-ae.com
BAE PROJECT NO. 18-121

STAMP

Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title
TELECOMMUNICATIONS - BUILDING 1
- SECOND FLOOR CABLE TRAY PLAN

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE
UPGRADES

Location
DES MOINES, IOWA

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Project Number
636A6-21-101
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1, 2, 3, 4, 5, 6M, 7M, 9, 10,
11, 12, 21, 24, 25, 27, & 28
Drawing Number
01-T002.C

A

B

C

D

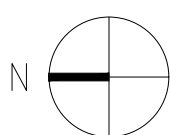
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VA FORM 08 - 6231



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

ISSUE FOR BID	09/02/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 3	08/09/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 2	06/27/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION + MOD 2	06/10/2022
FINAL CONSTRUCTION DOCUMENTS SUBMISSION	03/28/2022
100% CONSTRUCTION DEVELOPMENT SUBMISSION	03/14/2022
95% CONSTRUCTION DEVELOPMENT SUBMISSION	02/10/2022
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Revisions:	Date:

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Management



U.S. Department
of Veterans Affairs

Drawing Title
TELECOMMUNICATIONS - BUILDING 1
- THIRD FLOOR ROUTING PLAN

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE
UPGRADES

Location
DES MOINES, IOWA

Issue Date
09/02/2022

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BY

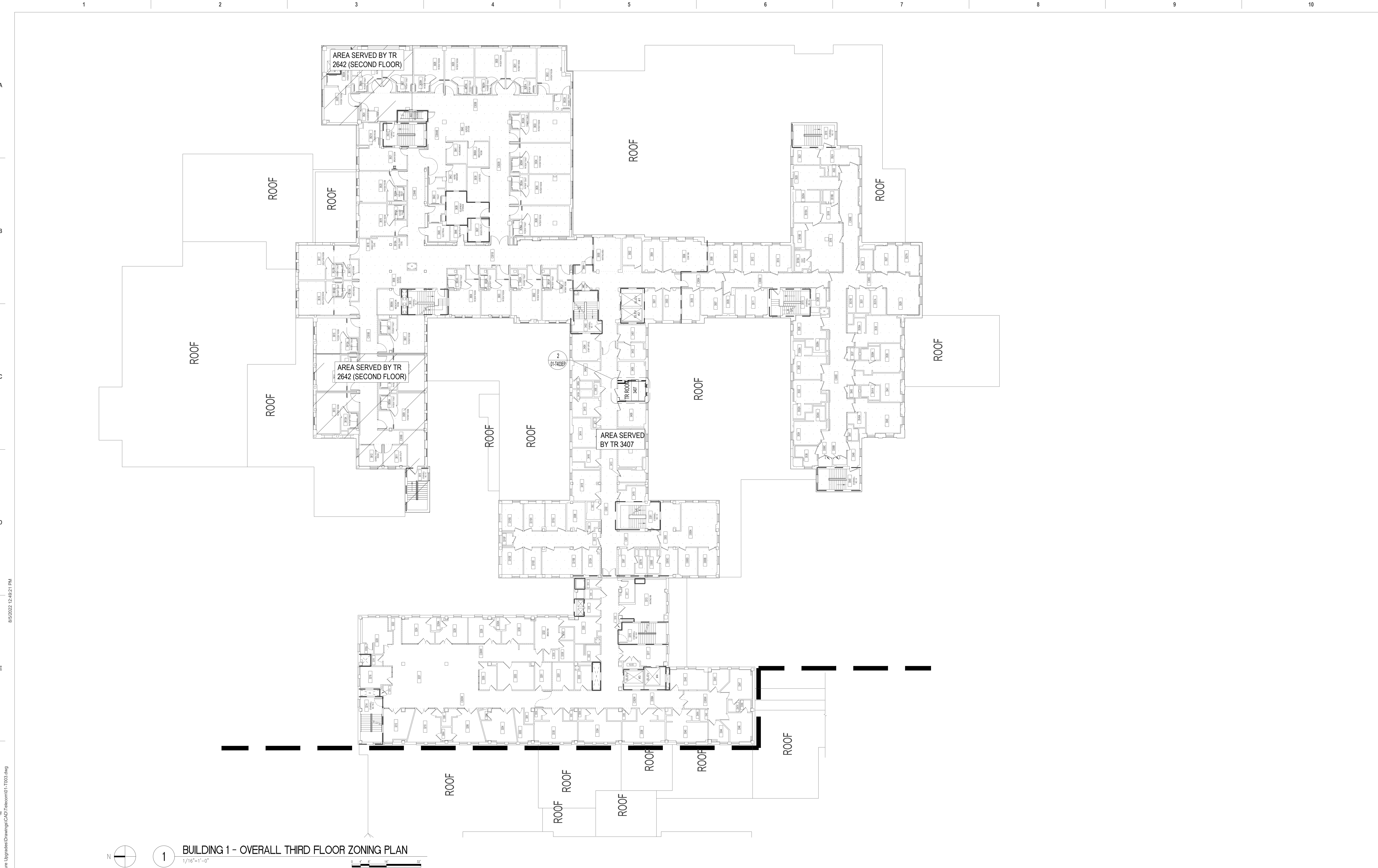
Drawn
CF

Project Number
636A6-21-101

Building Number
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11, 12, 21-24, 25, 27, & 28

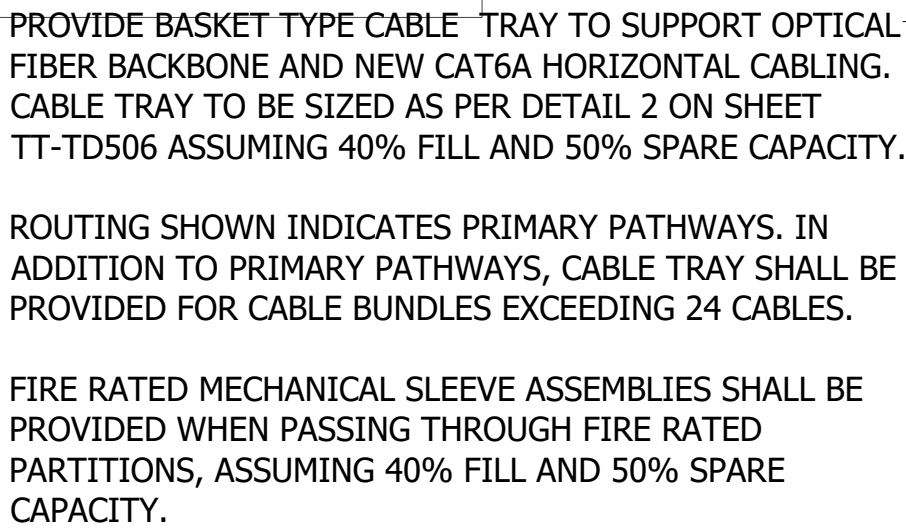
Drawing Number

01-T003.A

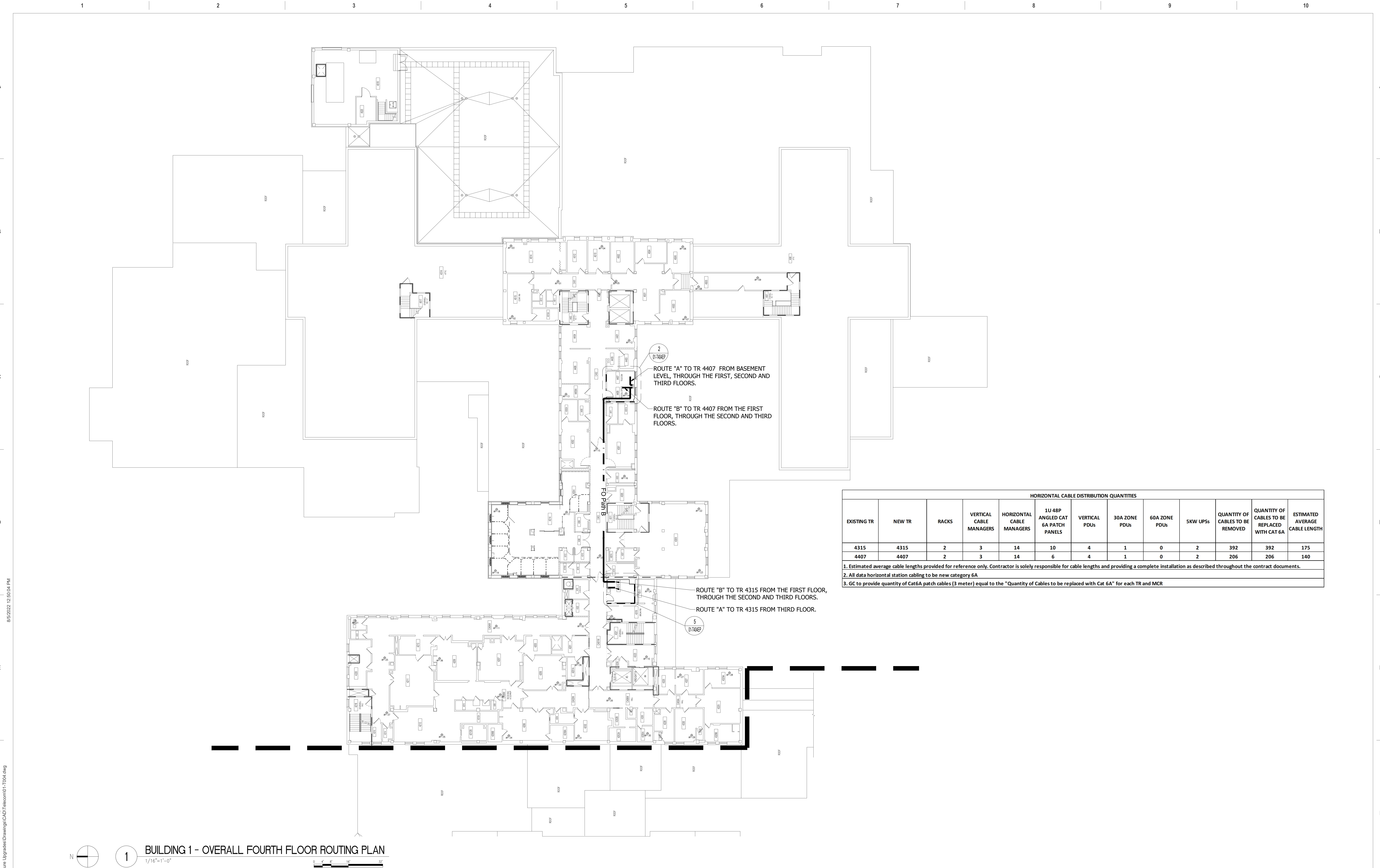


1 BUILDING 1 - OVERALL THIRD FLOOR ZONING PLAN
1/16"=1'-0"

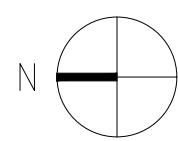
<div>ISSUE FOR BID09/02/2022</div> <div>FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 308/09/2022</div> <div>FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 206/27/2022</div> <div>FINAL CONSTRUCTION DOCUMENTS RESUBMISSION + MOD 206/10/2022</div> <div>FINAL CONSTRUCTION DOCUMENTS SUBMISSION03/28/2022</div> <div>100% CONSTRUCTION DEVELOPMENT SUBMISSION03/14/2022</div> <div>95% CONSTRUCTION DEVELOPMENT SUBMISSION02/10/2022</div> <div>65% DESIGN DEVELOPMENT SUBMISSION12/09/2021</div> <div>35% DESIGN DEVELOPMENT SUBMISSION10/07/2021</div> <div>Revisions:Date:</div>		<div>CONSULTANT</div> <div>Telecom:</div> <div>Bright Tree Studios</div> <div>301 Brush Creek Road</div> <div>Warrendale, PA 15238</div> <div>(412)-212-7515</div>	<div>ARCHITECT/ENGINEER OF RECORD</div> <div><div><div>Bancroft</div></div></div> <div>3300 Dundee Road</div> <div>Northbrook, IL 60062</div> <div>T: 847.952.9362</div> <div>www.bancroft-ae.com</div> <div>VA CONTRACT NO. 36C26319D0044</div> <div>BAE PROJECT NO. 18-121</div>	<div>STAMP</div> <div></div>	<div>Office of Construction and Facilities Management</div> <div>VAU.S. Department of Veterans Affairs</div>	<div>Drawing Title</div> <div>TELECOMMUNICATIONS - BUILDING 1 - THIRD FLOOR ZONING PLAN</div> <div>Approved: Project Director</div>	<div>Phase</div> <div>CONSTRUCTION DOCUMENTS</div> <div>FULLY SPRINKLERED</div>	<div>Project Title</div> <div>EHRM INFRASTRUCTURE UPGRADES</div> <div>Location</div> <div>DES MOINES, IOWA</div> <div>Issue Date</div> <div>09/02/2022</div> <div>Checked</div> <div>BY</div> <div>Drawn</div> <div>CF</div>	<div>Project Number</div> <div>636A6-21-101</div> <div>Building Number</div> <div>1, 2, 3, 4, 5, 6M, 7M, 9, 10, 11, 12, 21-24, 25, 27, & 28</div> <div>Drawing Number</div> <div>01-T003.B</div>
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Project Number	636A6-21-101
Building Number	1, 2, 3, 4, 5, 6M, 7M, 9, 10, 11, 12, 21, 24, 25, 27, & 28
Drawing Number	01-T003.C



HORIZONTAL CABLE DISTRIBUTION QUANTITIES												
EXISTING TR	NEW TR	RACKS	VERTICAL CABLE MANAGERS	HORIZONTAL CABLE MANAGERS	1U 48P ANGLED CAT 6A PATCH PANELS	VERTICAL PDUs	30A ZONE PDUs	60A ZONE PDUs	5KW UPSs	QUANTITY OF CABLES TO BE REMOVED	QUANTITY OF CABLES TO BE REPLACED WITH CAT 6A	ESTIMATED AVERAGE CABLE LENGTH
4315	4315	2	3	14	10	4	1	0	2	392	392	175
4407	4407	2	3	14	6	4	1	0	2	206	206	140
1. Estimated average cable lengths provided for reference only. Contractor is solely responsible for cable lengths and providing a complete installation as described throughout the contract documents.												
2. All data horizontal station cabling to be new category 6A												
3. GC to provide quantity of Cat6A patch cables (3 meter) equal to the "Quantity of Cables to be replaced with Cat 6A" for each TR and MCR												



1 BUILDING 1 - OVERALL FOURTH FLOOR ROUTING PLAN
1/16"=1'-0"

CONSULTANT

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TELECOMMUNICATIONS - BUILDING 1
- FOURTH FLOOR ROUTING PLAN

Approved: Project Director

Phase
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DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE
UPGRADES

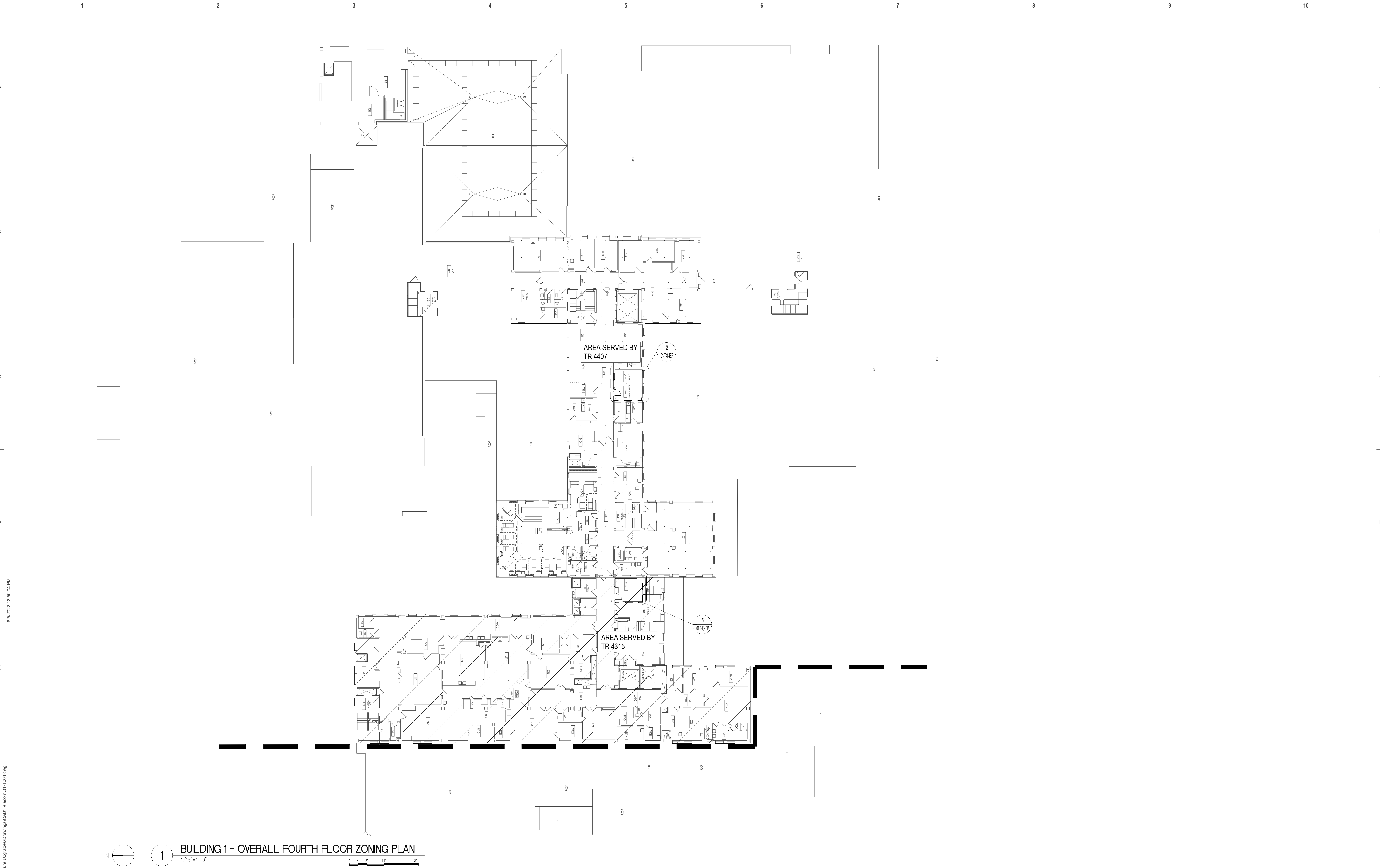
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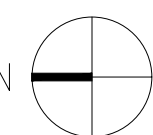
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VA FORM 08 - 6231



1

BUILDING 1 - OVERALL FOURTH FLOOR - CABLE TRAY PLAN

1/16"=1'-0"

CONSULTANT

Telecom:
Bright Tree Studios
301 Brush Creek Road
Warrendale, PA 15238
(412)-212-7515

ARCHITECT/ENGINEER OF RECORD

Bancroft
BANCROFT ARCHITECTS + ENGINEERS
VA CONTRACT NO. 36C26319D0044
3300 Dundee Road
Northbrook, IL 60062
T: 847.952.9362
www.bancroft-ae.com
BAE PROJECT NO. 18-121

STAMP

Office of
Construction
and Facilities
Management



U.S. Department
of Veterans Affairs

Drawing Title

TELECOMMUNICATIONS - BUILDING 1
- FOURTH FLOOR CABLE TRAY PLAN

Approved: Project Director

Phase

CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title

EHRM INFRASTRUCTURE
UPGRADES

Location

DES MOINES, IOWA

Issue Date

09/02/2022

Checked

BY

Drawn

CF

Project Number

636A6-21-101

Building Number

1, 2, 3, 4, 5, 6M, 7M, 9, 10,
11, 12, 21, 24, 25, 27, & 28

Drawing Number

01-T004.C

NOTES:

1. CONTRACTOR TO LOCATE EXISTING REINFORCING PRIOR TO DOING CORES FOR CONDUITS. DO NOT CUT REINFORCING. CORES SHALL HAVE 4" CLEAR MINIMUM BETWEEN THEM. ADJUST CORE LOCATIONS AS NEEDED. AT LOCATIONS WITH MORE THAN (2) CORES GOING THROUGH A CMU WALL, SPACE CORES AT 16" MINIMUM.
2. FOR CABLE TRAY GROUNDING, REFER TO DETAILS NO. 2, 3 & 4 ON SHEET TT-TD501.

A

B

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E

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ISSUE FOR BID	09/02/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 3	08/09/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 2	06/27/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION + MOD 2	06/10/2022
FINAL CONSTRUCTION DOCUMENTS SUBMISSION	03/28/2022
100% CONSTRUCTION DEVELOPMENT SUBMISSION	03/14/2022
95% CONSTRUCTION DEVELOPMENT SUBMISSION	02/10/2022
65% DESIGN DEVELOPMENT SUBMISSION	12/09/2021
35% DESIGN DEVELOPMENT SUBMISSION	10/07/2021
Revisions:	Date:

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VA CONTRACT NO. 36C26319D0044 BAE PROJECT NO. 18-121

STAMP

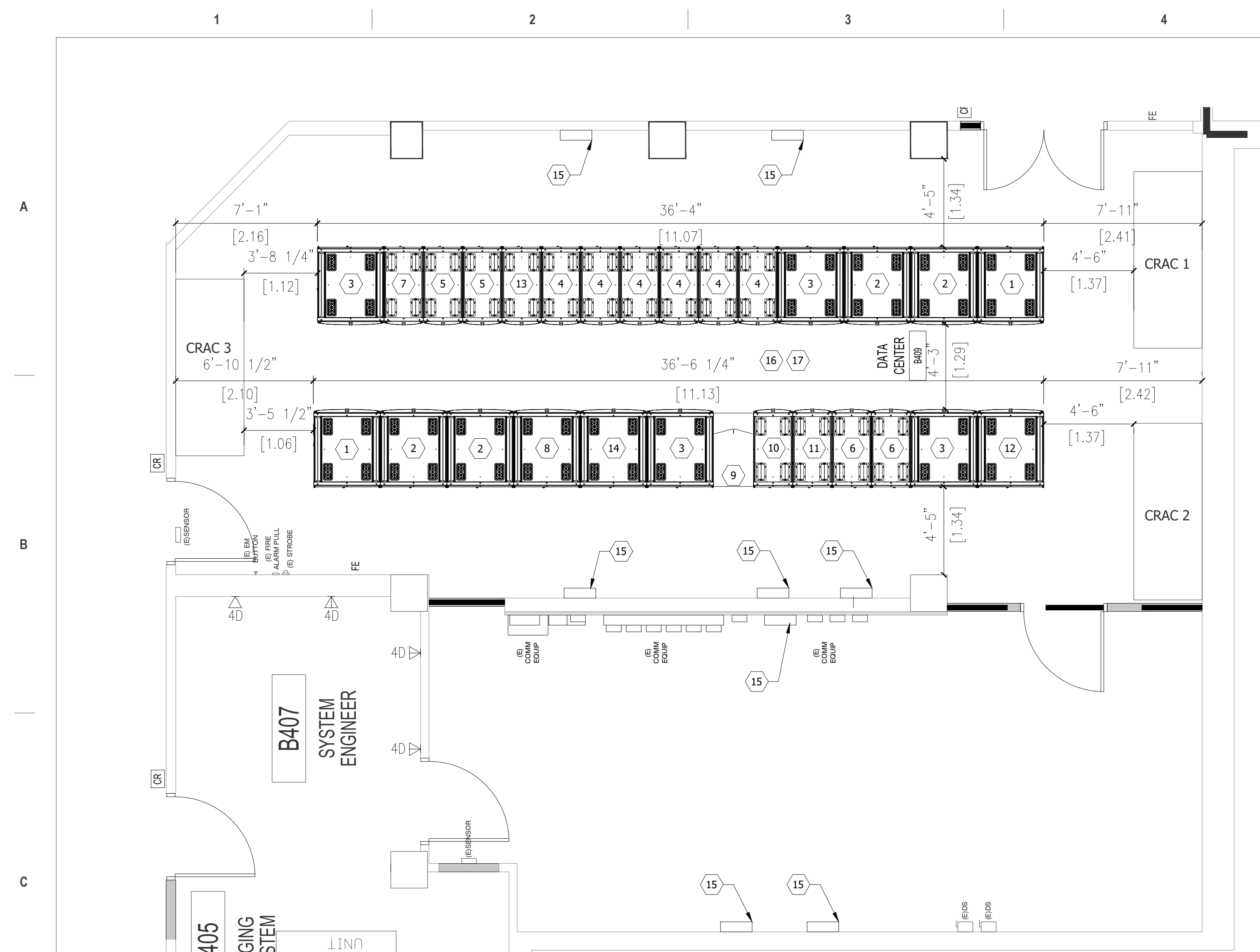
Office of Construction and Facilities Management
 U.S. Department of Veterans Affairs

Drawing Title
TELECOMMUNICATIONS - BUILDING 1 - FIFTH FLOOR ROUTING PLAN
Approved: Project Director

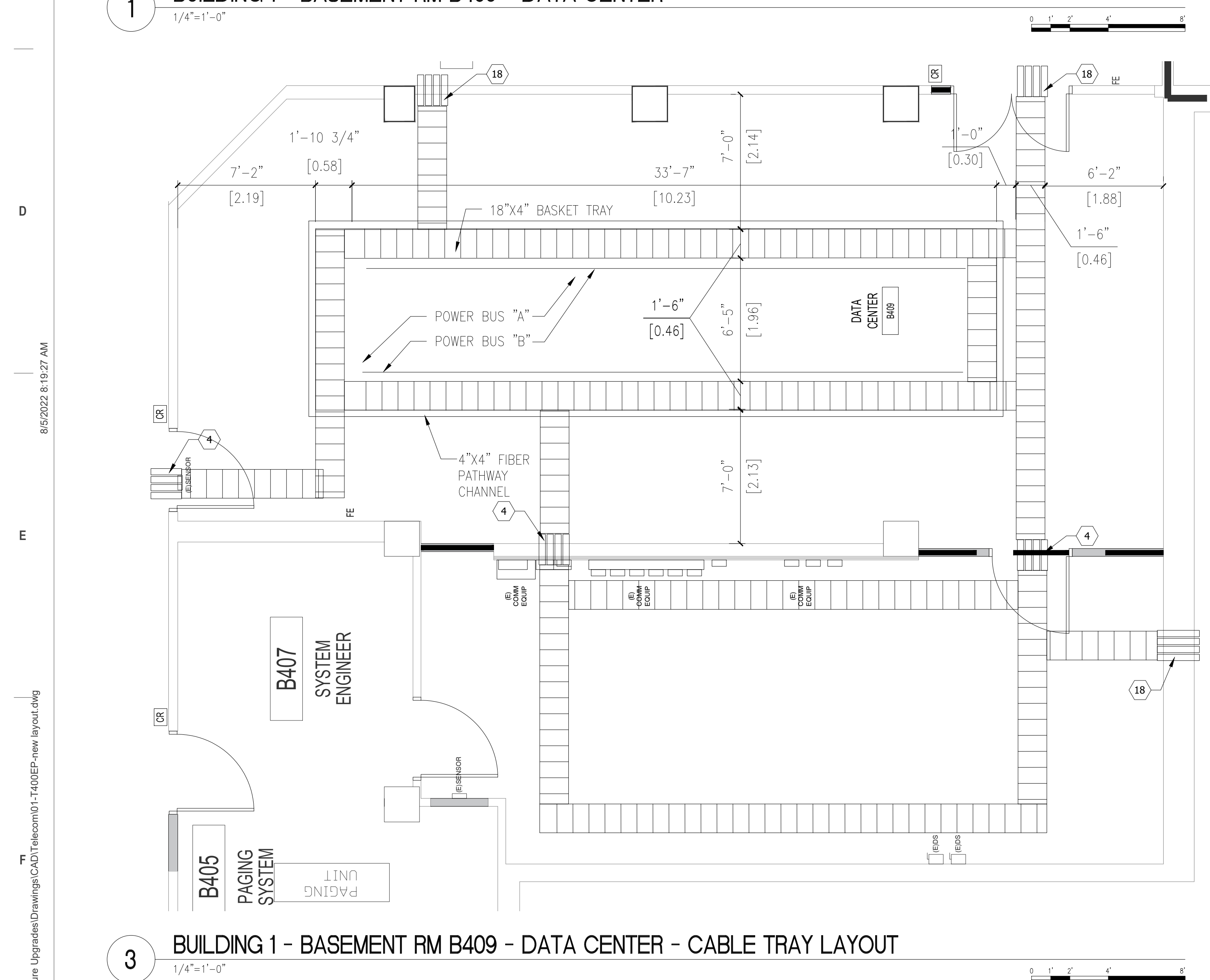
Phase
CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES
Location
DES MOINES, IOWA
Issue Date
09/02/2022
Checked BY
Drawn CF

Project Number
636A6-21-101
Building Number
1, 2, 3, 4, 5, 6M, 7M, 9, 10, 11, 12, 21, 24, 25, 27, & 28
Drawing Number
01-T005



1 BUILDING 1 - BASEMENT RM B409 - DATA CENTER



2 BUILDING 1 - BASEMENT RM B409 - DATA CENTER - CABLE TRAY LAYOUT

ISSUE FOR BID	09/02/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 3	08/09/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 2	06/17/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION + MOD 2	06/27/2022
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Revisions:	Date:

CONSULTANT

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ARCHITECT/ENGINEER OF RECORD

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BAE PROJECT NO. 18-121

STAMP

Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title	ENLARGED PLAN - BUILDING 1 - BASEMENT - DATA CENTER EQUIPMENT PLAN
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Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

DEMOLITION PLAN LEGEND

=====	EXISTING CONSTRUCTION TO REMAIN
-----	EXISTING CONSTRUCTION TO BE REMOVED IN ITS ENTIRETY, INCLUDING WALL SWITCHES, OUTLETS, THERMOSTATS, ETC. PATCH ABUTTING WALLS, FLOORS AND CEILINGS AS REQUIRED. REMOVE EXISTING ITEMS SCHEDULED TO REMAIN AS NECESSARY TO ALLOW THE COMPLETE DEMOLITION OF SELECTED ITEMS. REPAIR/REPLACE EXISTING ITEMS ONCE DEMOLITION IS COMPLETED.
	AREA NOT IN CONTRACT

FLOOR PLAN LEGEND

AREA NOT IN CONTRACT

EXISTING PARTITION

NEW PARTITION SURFACE MATERIAL

EXISTING DOOR

XXXXXX ROOM NAME

1001 ROOM NUMBER

EXISTING DOOR TO BE REMOVED

GENERAL NOTES

NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING.

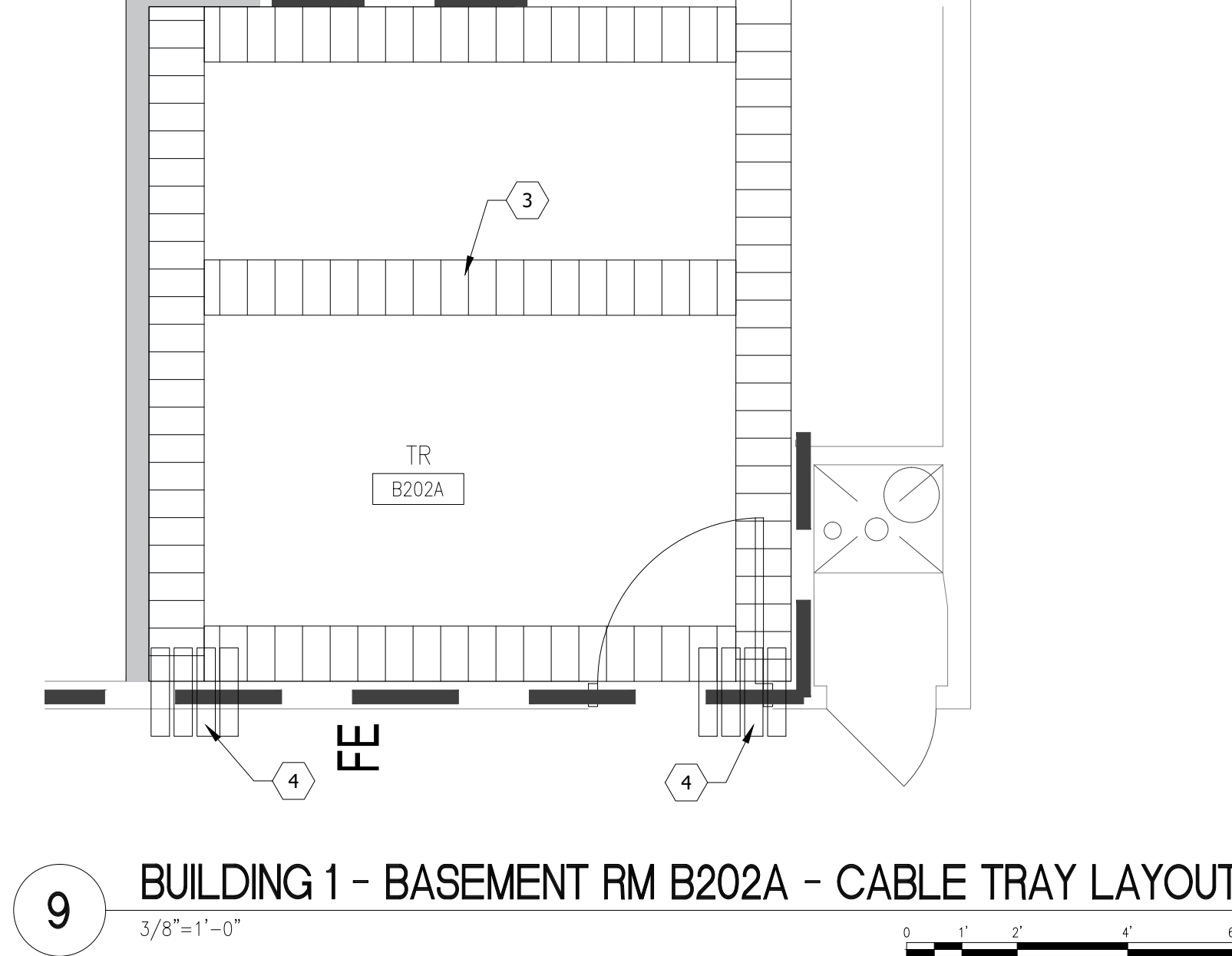
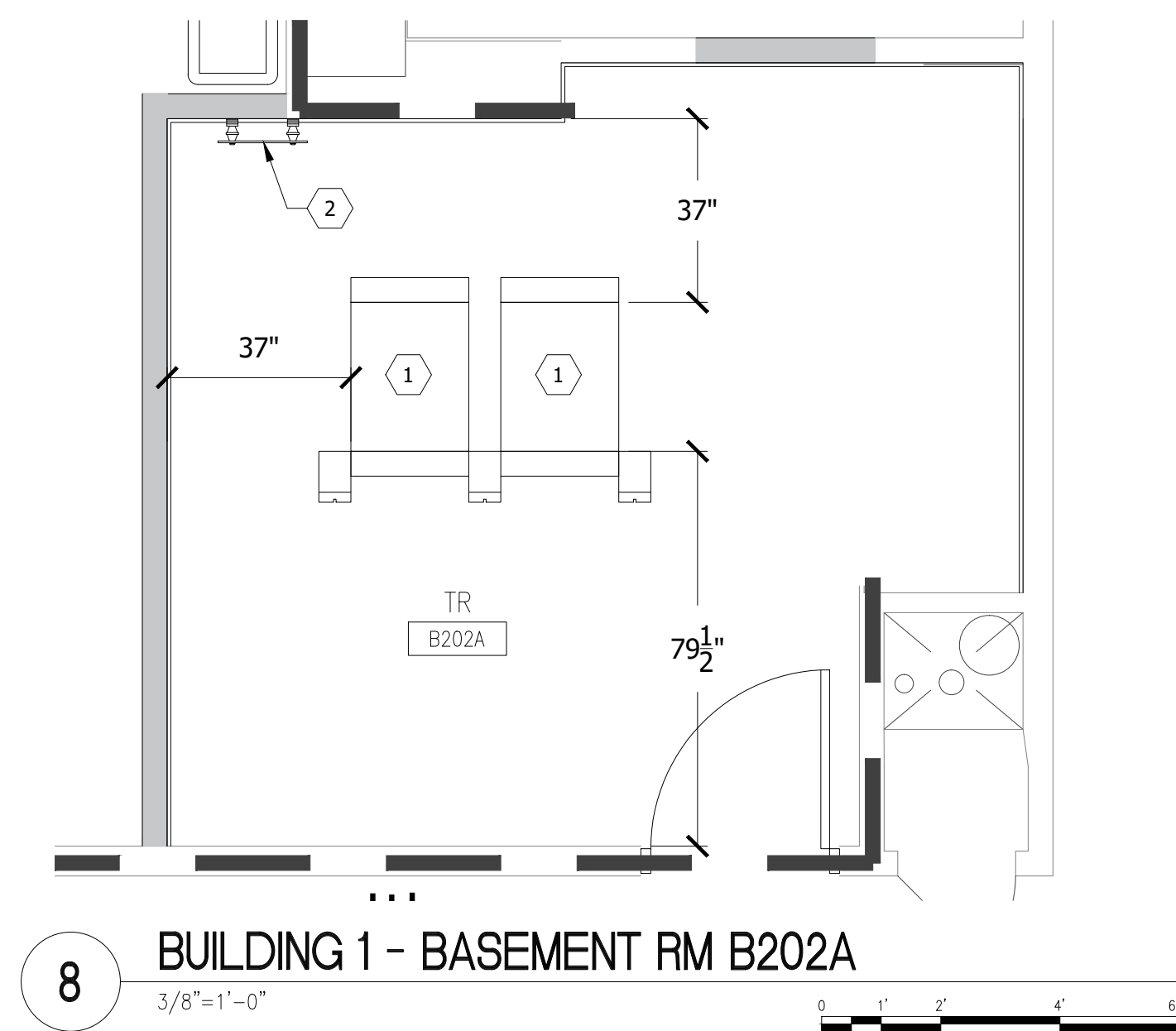
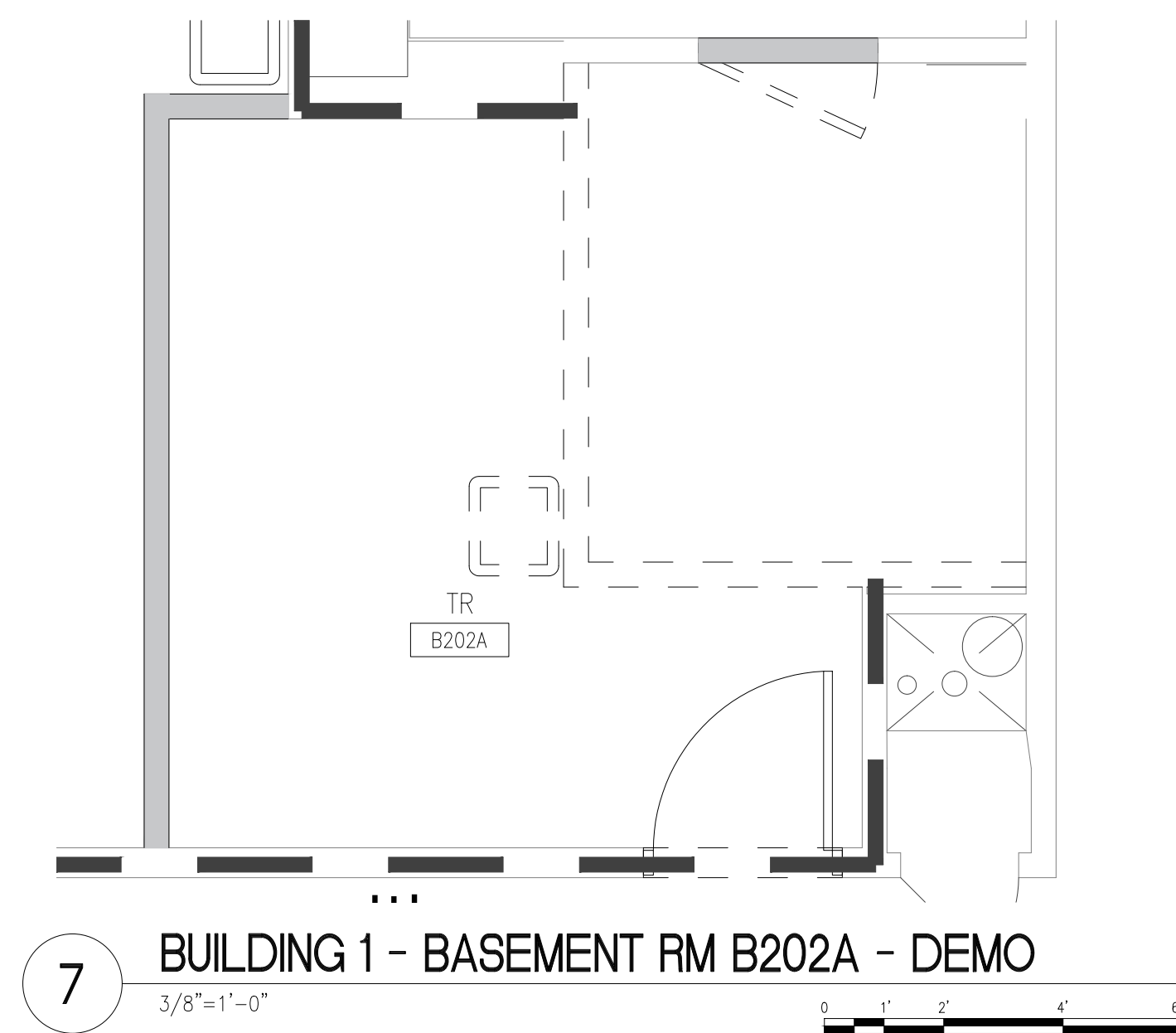
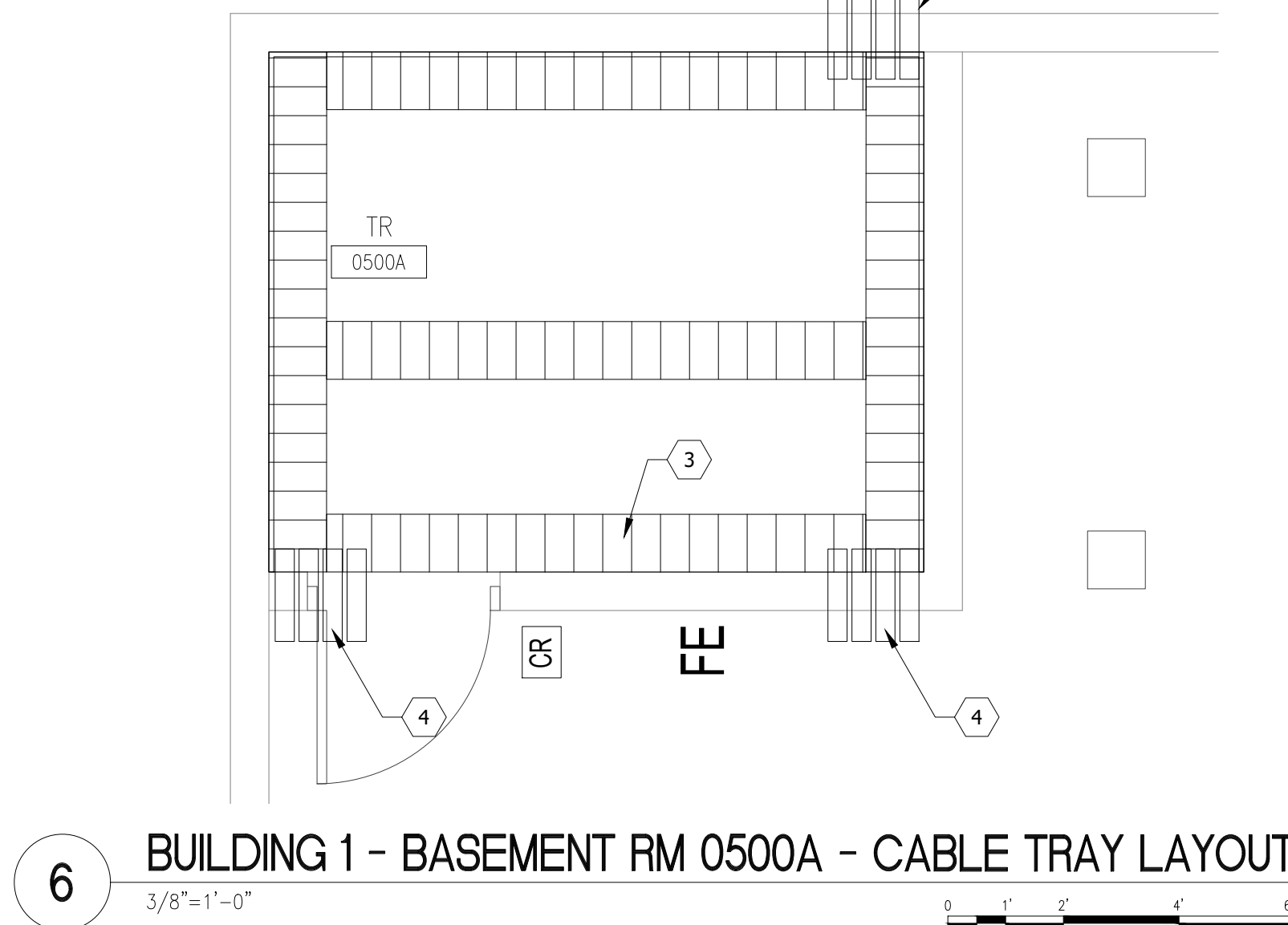
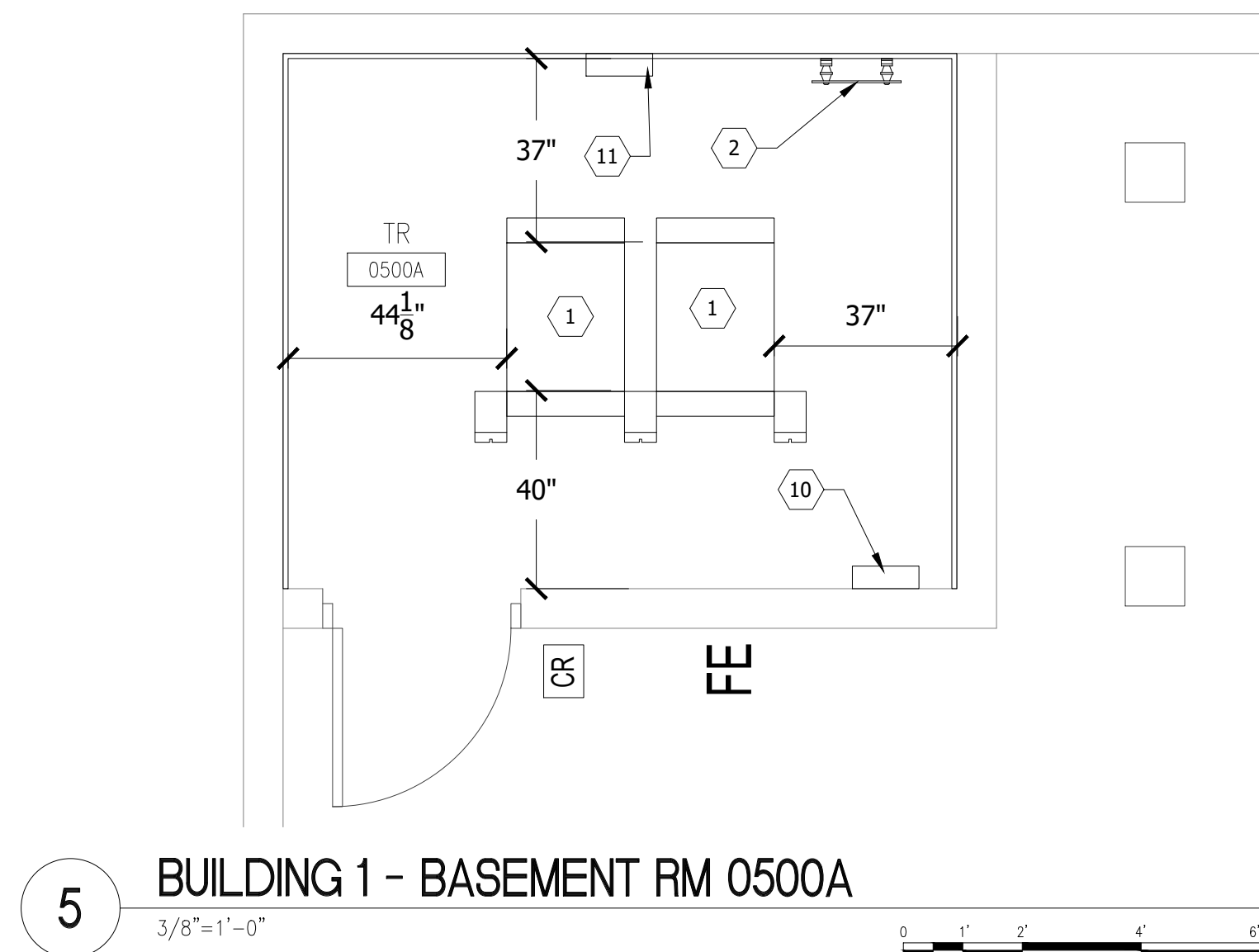
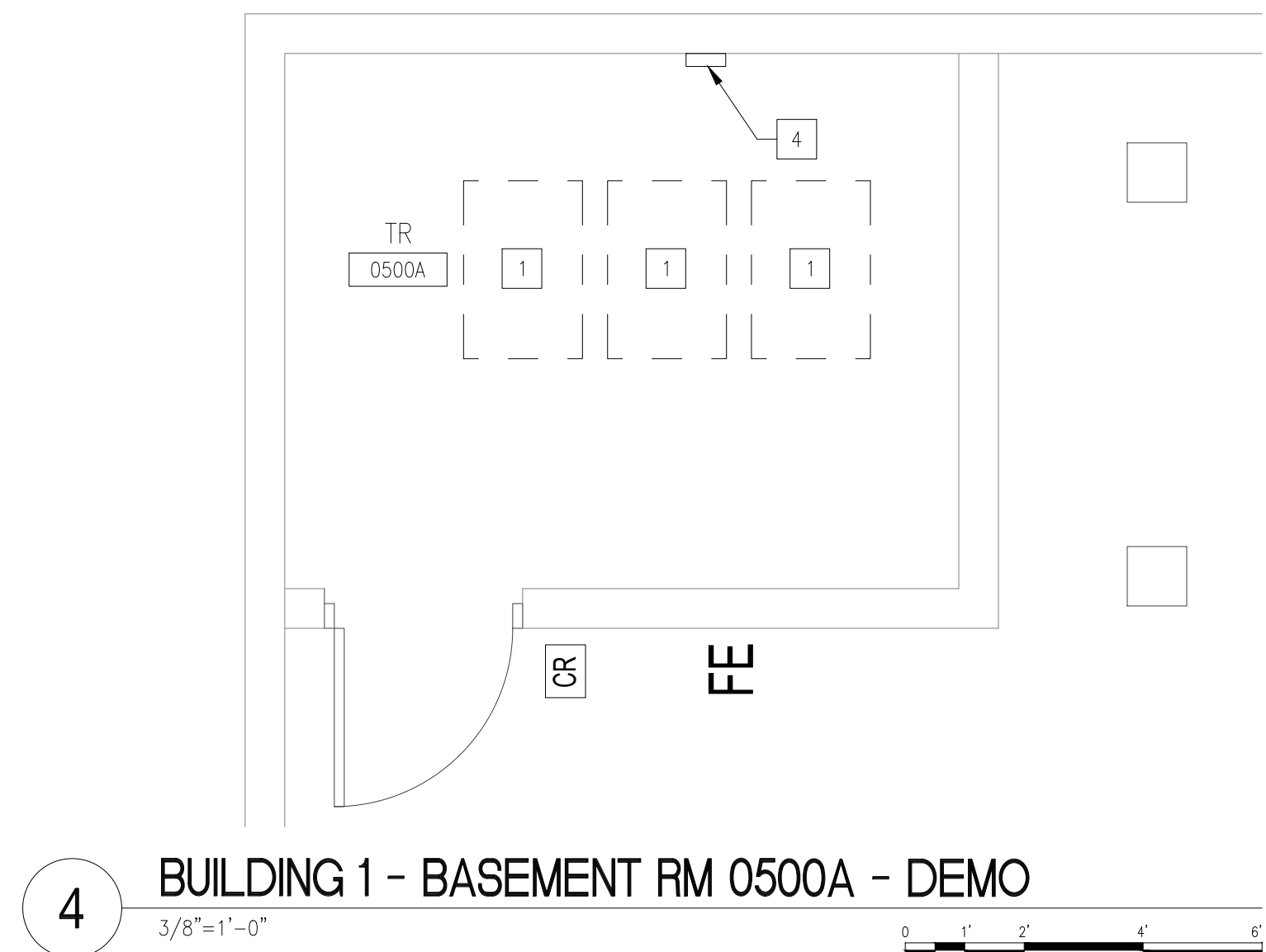
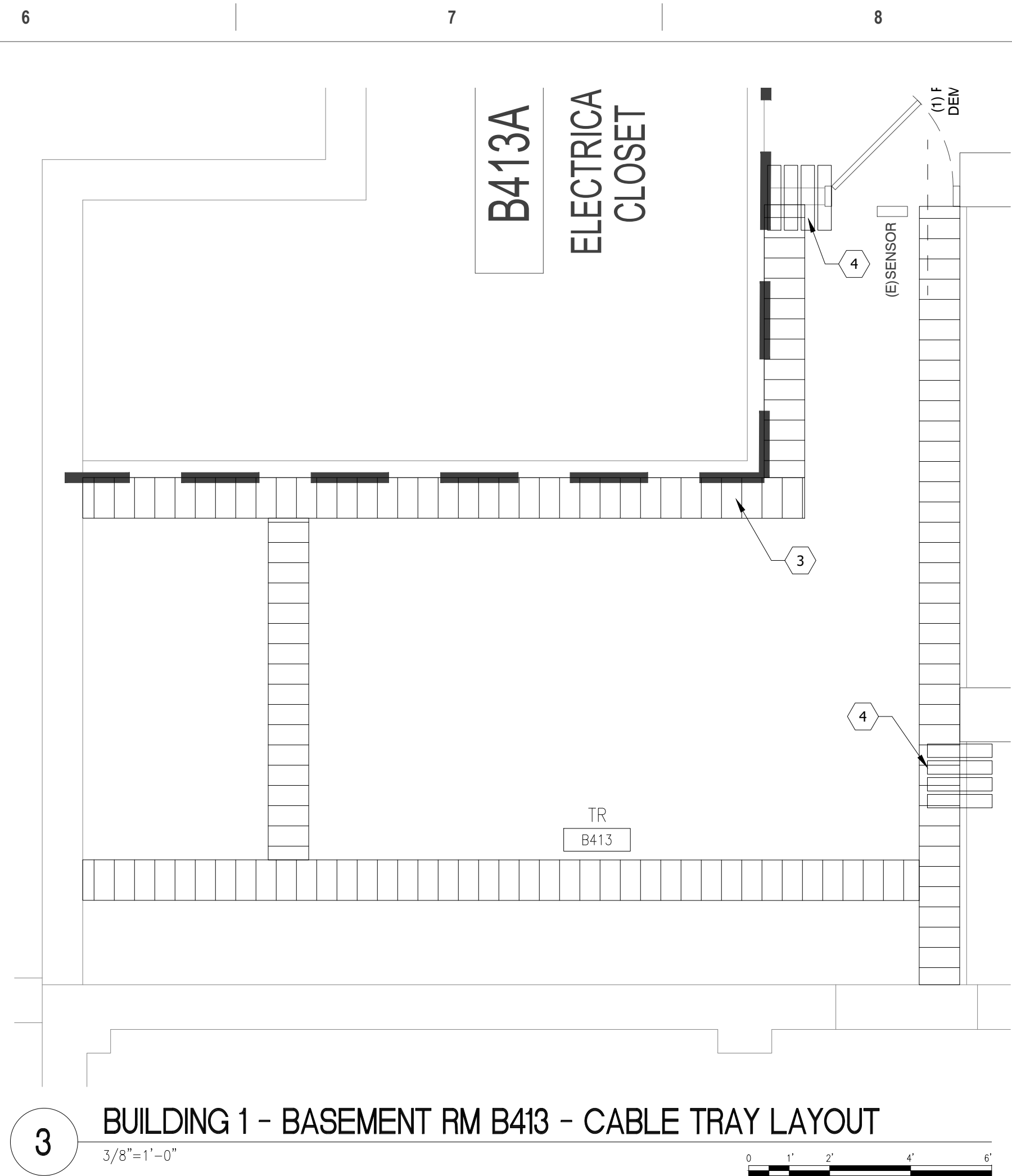
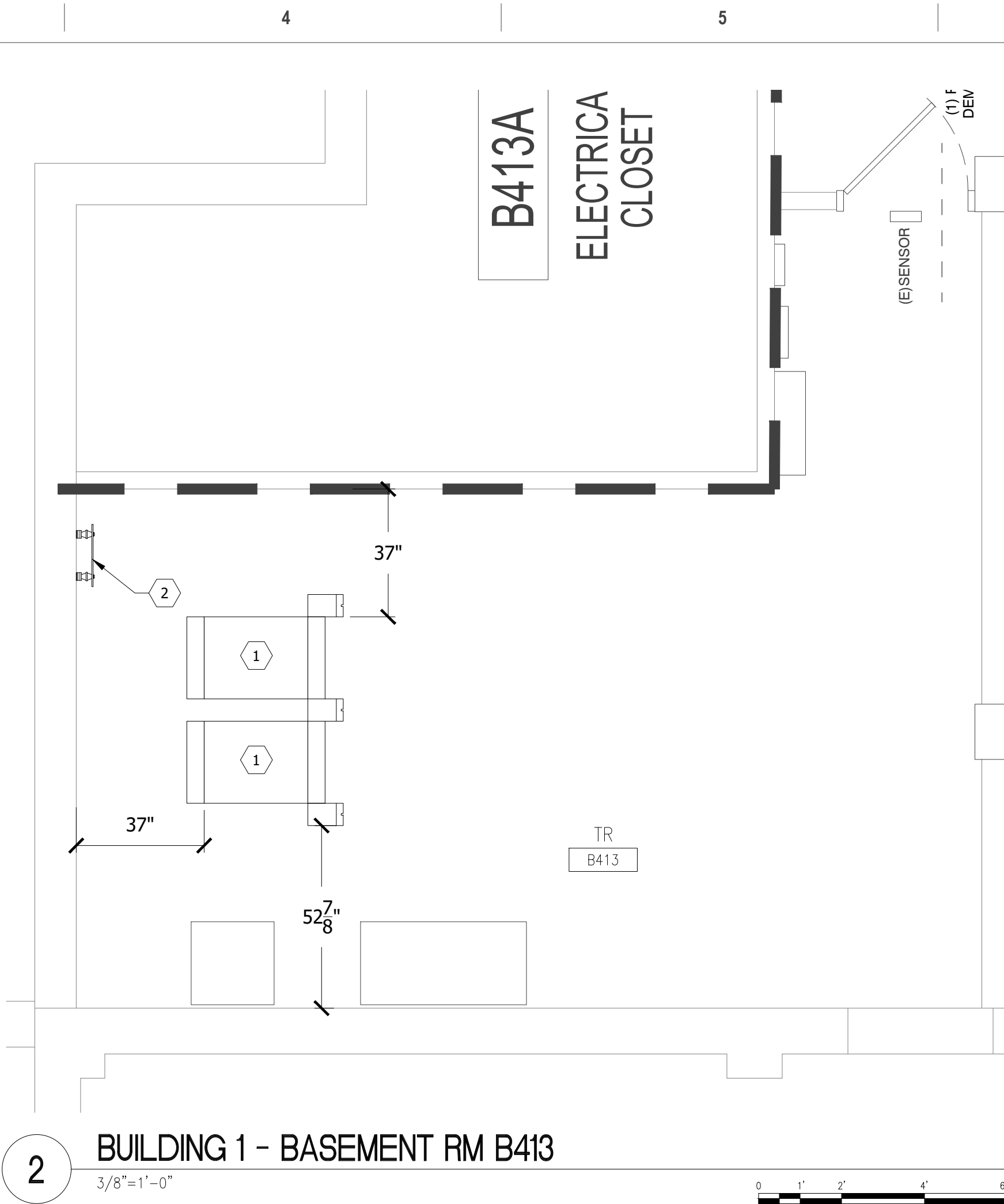
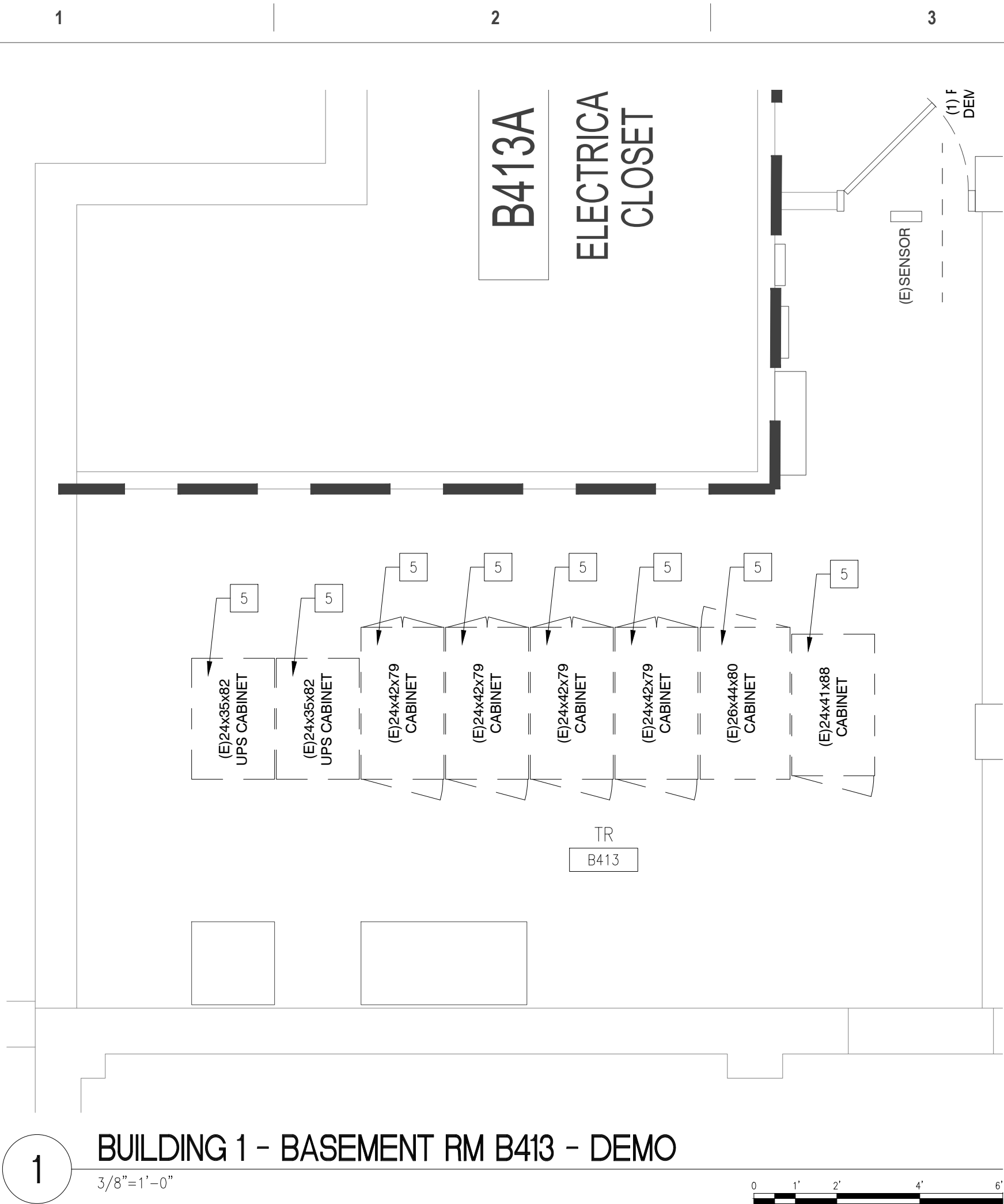
- A. PROVIDE BASKET TYPE CABLE TRAY ALONG PRIMARY CABLE PATHWAYS AND WHEN CABLE BUNDLE EXCEEDS 24 CABLES, CABLE TRAY TO BE SIZED AS PER DETAIL 3 ON DRAWING TT-TD506.
- B. ALL PENETRATIONS TO BE SEALED AS REQUIRED TO MEET EXISTING RATINGS. MECHANICAL FIRE RATED PATHWAYS TO BE PROVIDED AT RATED WALLS AS DEPICTED ON DRAWINGS AND WHEN CABLE BUNDLE EXCEEDS 24 CABLES.
- C. VERIFY ALL COMPONENTS BONDED TO EXISTING TELECOMMUNICATION GROUNDING BUSBARS HAVE BEEN TAKEN OUT OF SERVICE OR HAS BEEN BANNED TO THE NEW TELECOMMUNICATION GROUNDING/BONDING SYSTEM PRIOR TO REMOVING EXISTING GROUNDING COMPONENTS.
- D. CARE SHALL BE TAKEN AS TO NOT DISRUPT OR DAMAGE EXISTING SYSTEMS INCLUDING BUT NOT LIMITED TO CATV, ACCESS CONTROL, FIRE ALARM, NURSE CALL, BUILDING AUTOMATION, DISRUPTED ANTENNA, PAGING.
- E. NO CABLES OR COMPONENTS SHALL BE REMOVED FROM SERVICE PRIOR TO AUTHORIZATION FROM PROJECT COR.
- F. FIELD VERIFY ALL CONDUIT PENETRATIONS AND CORE LOCATIONS.
- G. FOR IT INFORMATION AND SOW SEE DESIGN NARRATIVE/BASIS OF DESIGN.

DATA CENTER KEY NOTES

NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING.

1. MAIN DISTRIBUTION AREA (MDA) NETWORK CABINET ALLOCATED FOR FIBER DISTRIBUTION TO TR'S. RATED AT 5KW PER CABINET. REFER TO DETAIL 5 ON SHEET TT-1D505.
2. MAIN DISTRIBUTION AREA (MDA) NETWORK CABINET ALLOCATED FOR SPINE/AGGREGATION/OOB/LAN ELEMENTS, CORE AND WAN ELEMENTS, AND SECURITY STACK. RATED AT 5KW PER CABINET
3. END OF ROW (EOR) HORIZONTAL DISTRIBUTION AREA (HDA) NETWORK CABINET ALLOCATED FOR HORIZONTAL DISTRIBUTION FIBER AND UTP DISTRIBUTION TO EACH CABINET AS WELL AS LAN ELEMENTS AND LEAF OR ACCESS LAYER SWITCHES. RATED AT 5KW PER CABINET.
4. SERVER CABINET ALLOCATED FOR BIO MED SERVER EQUIPMENT RATED AT 5KW PER CABINET.
5. SERVER CABINET ALLOCATED FOR CERNER FORWARD DEPLOYED SERVER (FDS) EQUIPMENT RATED AT 5KW PER CABINET.
6. STANDARD DENSITY SERVER CABINET ALLOCATED FOR MISCELLANEOUS STATION SERVERS AND FUTURE GROWTH. RATED AT 5KW PER CABINET. REFER TO DETAIL 5 ON SHEET TT-1D505.
7. HIGH DENSITY SERVER CABINET ALLOCATED FOR FUTURE CLOUD BASED SERVICES. RATED AT 10KW PER CABINET.
8. NETWORK CABINET ALLOCATED TO HOUSE EXISTING SERVICE PROVIDER AND GUEST WIRELESS EQUIPMENT. RATED AT 5KW..
9. EXISTING "VERIZON" SERVER CABINET TO BE REPOSITIONED TO THIS LOCATION. RATED AT 5KW.
10. SERVER CABINET ALLOCATED TO HOUSE EXISTING "TELECOM" EQUIPMENT. RATED AT 5KW.
11. SERVER CABINET ALLOCATED TO HOUSE EXISTING VIDEO SURVEILLANCE SYSTEM SERVER EQUIPMENT. RATED AT 5KW.
12. NETWORK CABINET ALLOCATED FOR HORIZONTAL DISTRIBUTION TO SERVE "WARMING RACKS" AND LOCAL WORK AREA OUTLETS. RATED AT 5KW.
13. EXISTING JCI METASYS BAS WORKSTATION / SERVER RACK
14. NETWORK CABINET ALLOCATED TO SUPPORT EXISTING TV PAGING SYSTEM, TELEMETRY SYSTEM AND ICU SYSTEMS. RATED AT 5KW.
15. PROVIDE WALL MOUNTED 24 PATCH PANEL (REFER TO DETAIL 7/TT-1D502) WITH 24 CAT 6A LINKS FED FROM MCR/DG 409 DISTRIBUTIONAL DISTRIBUTION CABINET.
16. REFER TO DETAIL 4 ON SHEET TT-1D505 FOR HORIZONTAL DISTRIBUTION FIBER FOR HDA TO SD AND HD SERVER CABINETS CABLING REQUIREMENTS.
17. REFER TO DETAIL 5 ON SHEET TT-1D505 FOR FIRST LEVEL BACKBONE DISTRIBUTION FOR MDA TO HDA CABINETS CABLING REQUIREMENTS.
18. PROVIDE FOUR (4) 4" MECHANICAL FIBER-RATED PATHWAY DEVICES FOR HORIZONTAL DISTRIBUTION.

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DEMOLITION PLAN LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED IN ITS ENTIRETY, INCLUDING WALL SWITCHES, OUTLETS, THERMOSTATS, ETC. PATCH ABUTTING WALLS, FLOORS AND CEILINGS AS REQUIRED. REMOVE EXISTING ITEMS SCHEDULED TO REMAIN AS NECESSARY TO ALLOW THE COMPLETE DEMOLITION OF SELECTED ITEMS. REPAIR/REPLACE EXISTING ITEMS ONCE DEMOLITION IS COMPLETED.
- AREA NOT IN CONTRACT

FLOOR PLAN LEGEND

- AREA NOT IN CONTRACT
- EXISTING PARTITION
- NEW PARTITION SURFACE MATERIAL
- EXISTING DOOR
- XXXXX ROOM NAME
1001 ROOM NUMBER
- EXISTING DOOR TO BE REMOVED

GENERAL NOTES

- NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING.
- PROVIDE BASKET TYPE CABLE TRAY ALONG PRIMARY CABLE PATHWAYS WHEN THE CABLE BUNDLE EXCEEDS 24 CABLES. CABLE TRAY TO BE SIZED AS PER DETAIL 3 ON DRAWING TT-ID506.
 - ALL PENETRATIONS TO BE SEALED AS REQUIRED TO MEET EXISTING RATINGS. MECHANICAL FIRE RATED PATHWAYS TO BE PROVIDED AT RATED WALLS AS DEPICTED ON DRAWINGS AND WHEN CABLE BUNDLE EXCEEDS 24 CABLES.
 - VERIFY ALL COMPONENTS BONDED TO EXISTING TELECOMMUNICATION GROUNDING BUSBARS HAVE BEEN TAKEN OUT OF SERVICE OR HAS BEEN BONDED TO THE NEW TELECOMMUNICATION GROUNDING/BONDING SYSTEM PRIOR TO REMOVING EXISTING GROUNDING COMPONENTS.
 - CARE SHALL BE TAKEN AS TO NOT DISRUPT OR DAMAGE EXISTING SYSTEMS INCLUDING BUT NOT LIMITED TO CATV, ACCESS CONTROL, FIRE ALARM, NURSE CALL, BUILDING AUTOMATION, DISTRIBUTED ANTENNA, PAGING.
 - NO CABLES OR COMPONENTS SHALL BE REMOVED FROM SERVICE PRIOR TO AUTHORIZATION FROM PROJECT COR.
 - FIELD VERIFY ALL CONDUIT PENETRATIONS AND CORE LOCATIONS.
 - FOR IT INFORMATION AND SOW SEE DESIGN NARRATIVE/BASIS OF DESIGN.
 - CONTRACTOR TO LOCATE EXISTING REINFORCING PRIOR TO DOING CORES FOR CONDUIT. DO NOT CUT REINFORCING. CORES SHALL HAVE A MINIMUM OF 4" CLEAR BETWEEN THEM. ADJUST CORE LOCATIONS AS NEEDED. AT LOCATIONS WITH MORE THAN (2) CORES GOING THROUGH A CMU WALL, SPACE CORES AT 16" MINIMUM.

TELECOM PLAN KEY NOTES

- NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING.
- PROVIDE 45RU TELECOMMUNICATION CHANNEL RACK P/N: OR-MM2073038-W (OR EQUIVALENT), WITH 6.45" VERTICAL CABLE MANAGEMENT BETWEEN EACH RACK AND AT THE ENDS OF EACH RACK ROW P/N: OR-MM20VMD708 (OR EQUIVALENT). EACH RACK SHALL BE FASTENED TO THE FLOOR, INCLUDE A RACK BONDING BUS BAR (RBB), WITH (RBB) GROUND TO THE SECONDARY BONDING BUSBAR (SBB).
 - PROVIDE SECONDARY BONDING BUSBAR (SBB), MOUNT AT 72" AFF.
 - PROVIDE 18" X 4" BASKET TRAY. SECURE TO WALLS AND RACKS. GROUND TO SBB.
 - PROVIDE FOUR (4) 4" MECHANICAL FIRE-RATED PATHWAY DEVICES FOR HORIZONTAL DISTRIBUTION.
 - PROVIDE WALL MOUNTED TELECOM ENCLOSURE.
 - PROVIDE TWO (2) 4" VERTICAL CORES WITH 4" MECHANICAL FIRE-RATED PATHWAY DEVICES FOR VERTICAL DISTRIBUTION. PROVIDE 18" LADDER TRAY MOUNTED TO WALL FROM FLOOR TO TRAY ABOVE.
 - PROVIDE FOUR (4) 4" VERTICAL CORES WITH 4" MECHANICAL FIRE-RATED PATHWAY DEVICES FOR VERTICAL DISTRIBUTION. PROVIDE 24" WIDE LADDER TRAY MOUNTED TO WALL FROM FLOOR TO TRAY ABOVE. GROUND TO SBB.
 - PROVIDE TWO (2) 4" MECHANICAL FIRE-RATED PATHWAY DEVICES FOR HORIZONTAL DISTRIBUTION.
 - PROVIDE 2 SETS OF FOUR (4) 4" MECHANICAL FIRE-RATED PATHWAY DEVICES FOR HORIZONTAL DISTRIBUTION.
 - EXISTING 110 BLOCK VOICE WALL FIELD TO REMAIN.
 - EXISTING CATV COMPONENTS AND ASSOCIATED CABLING TO REMAIN.
 - EXISTING WALL MOUNTED EQUIPMENT RACK AND ASSOCIATED COMPONENTS TO REMAIN.
 - EXISTING WALL MOUNTED SHELF AND ASSOCIATED COMPONENTS TO BE RELOCATED TO THIS LOCATION. MOUNT AT 96" AFF.
 - EXISTING 110 BLOCK VOICE WALL FIELD TO BE RELOCATED TO THIS LOCATION.
 - EXISTING CATV COMPONENTS AND ASSOCIATED CABLING TO BE RELOCATED TO THIS LOCATION.
 - EXISTING EQUIPMENT CABINET AND ASSOCIATED CABLING TO REMAIN AS REQUIRED TO SUPPORT SYSTEMS THAT ARE NOT IN SCOPE.
 - EXISTING VERIZON WIRELESS EQUIPMENT AND ASSOCIATED CABLING TO BE RELOCATED TO THIS LOCATION.
 - EXISTING NURSE CALL PANELS AND ASSOCIATED CABLING TO REMAIN.
 - EXISTING SYSTEMS TO BE MIGRATED INTO NEW CHANNEL RACK.

TELECOM DEMO KEY NOTES

- NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING.
- EXISTING FLOOR MOUNTED TWO POST RACK ASSOCIATED HORIZONTAL CABLING AND PATCH PANELS TO BE REMOVED.
 - EXISTING FLOOR MOUNTED FOUR POST RACK TO BE REMOVED.
 - EXISTING WALL MOUNTED RACK ASSOCIATED HORIZONTAL CABLING AND PATCH PANELS TO BE REMOVED.
 - EXISTING WALL MOUNTED FIBER PATCH PANEL ASSOCIATED CABLING AND INNER DUCT TO BE REMOVED.
 - EXISTING TELECOMMUNICATION GROUND BUS TO BE REMOVED.
 - EXISTING FLOOR MOUNTED CABINET AND ASSOCIATED CABLING TO BE REMOVED.
 - EXISTING WALL MOUNTED SHELF AND ASSOCIATED COMPONENTS TO BE RELOCATED.
 - EXISTING 110 BLOCK VOICE WALL FIELD TO BE RELOCATED.
 - EXISTING CATV COMPONENTS AND ASSOCIATED CABLING TO BE RELOCATED.
 - EXISTING VERIZON WIRELESS EQUIPMENT AND ASSOCIATED CABLING TO BE RELOCATED.

ISSUE FOR BID	09/02/2022
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BAE PROJECT NO. 18-121

STAMP

Office of
Construction
and Facilities
Management

VA

U.S. Department
of Veterans Affairs

Drawing Title
ENLARGED PLAN - BUILDING 1 - BASEMENT -
TELECOM ROOM EQUIPMENT PLAN

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE
UPGRADES

Location
DES MOINES, IOWA

Issue Date
09/02/2022

Checked
BY

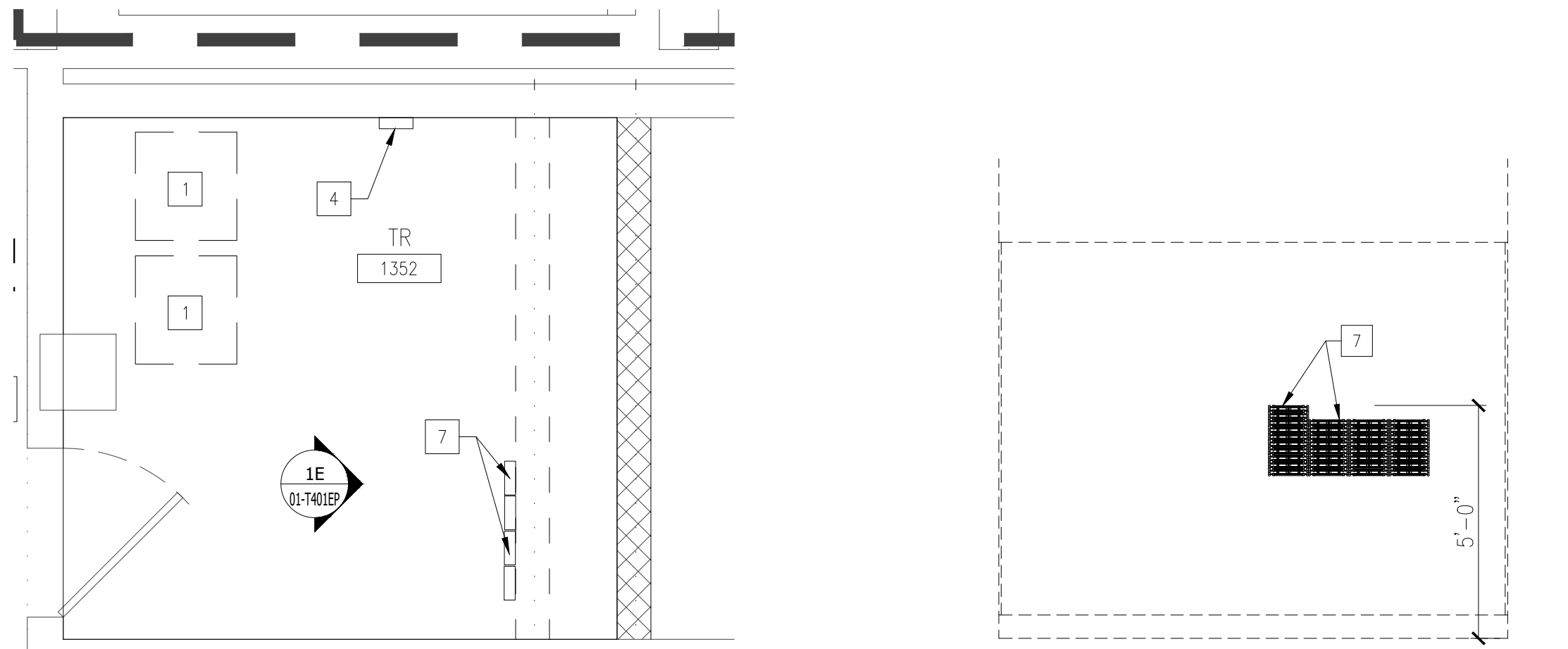
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CF

Project Number
636A6-21-101

Building Number
1, 2, 3, 4, 5, 6M, 7M, 9, 10,
11, 12, 21, 24, 25, 27, & 28

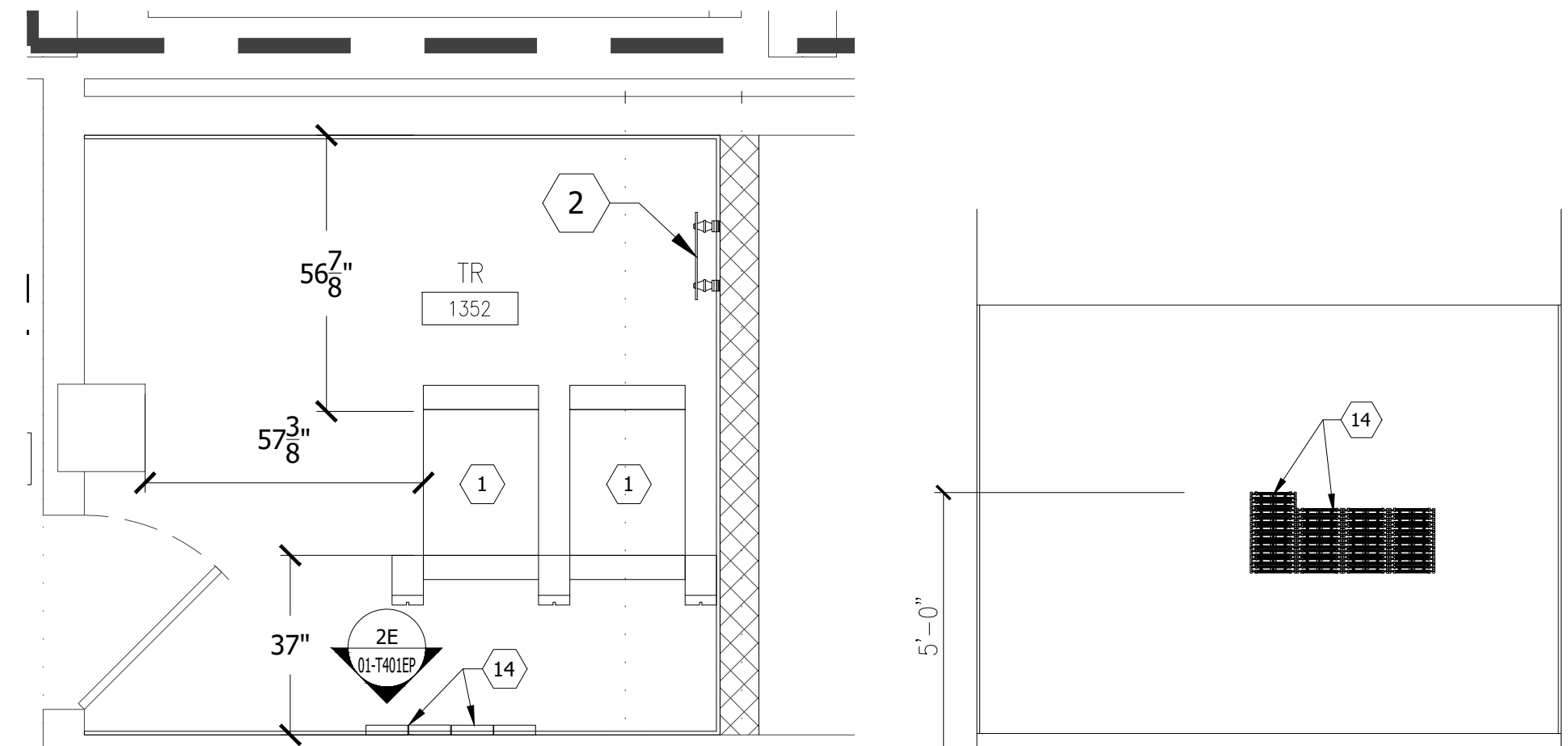
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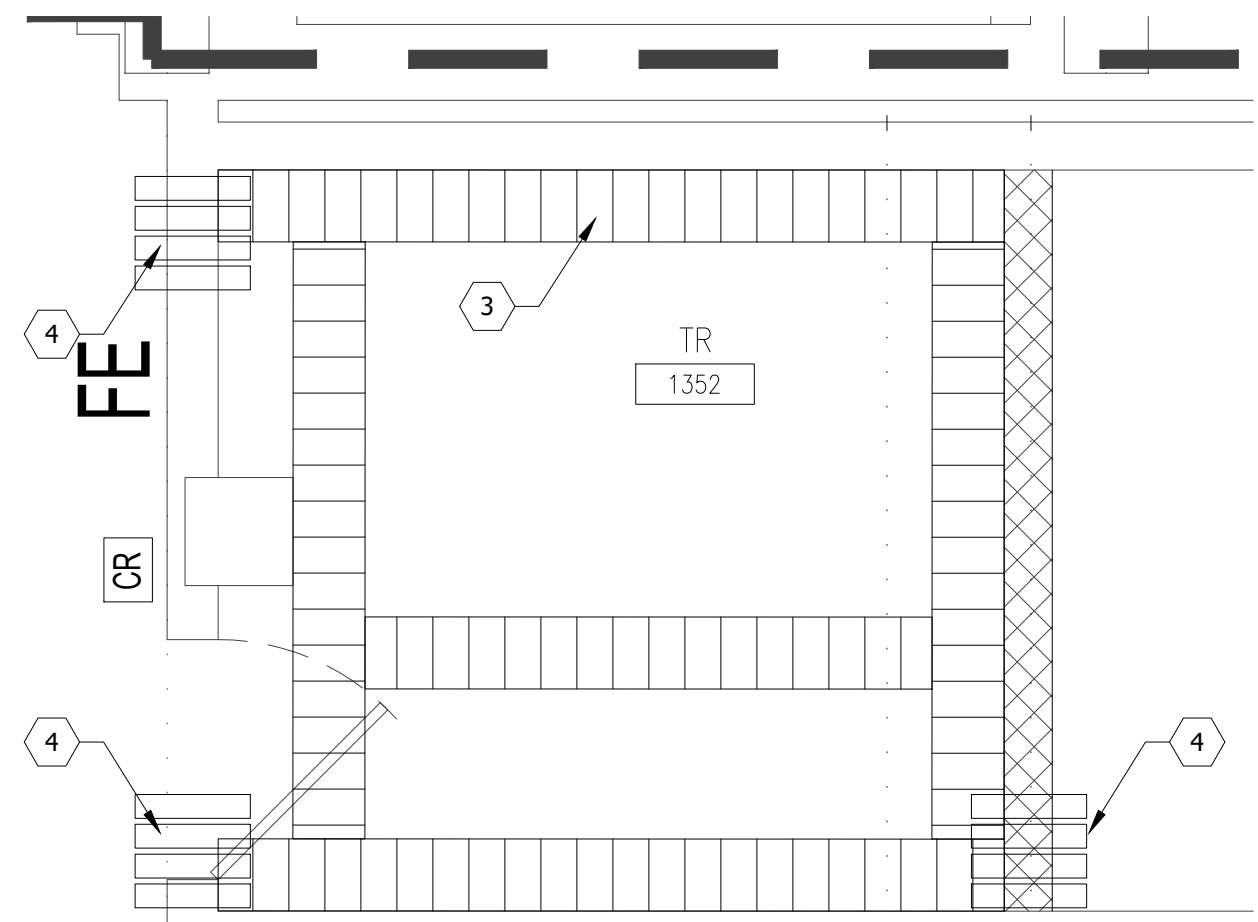
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3/8"=1'-0"

1E ELEVATION - RM 1352 DEMO
3/8"=1'-0"

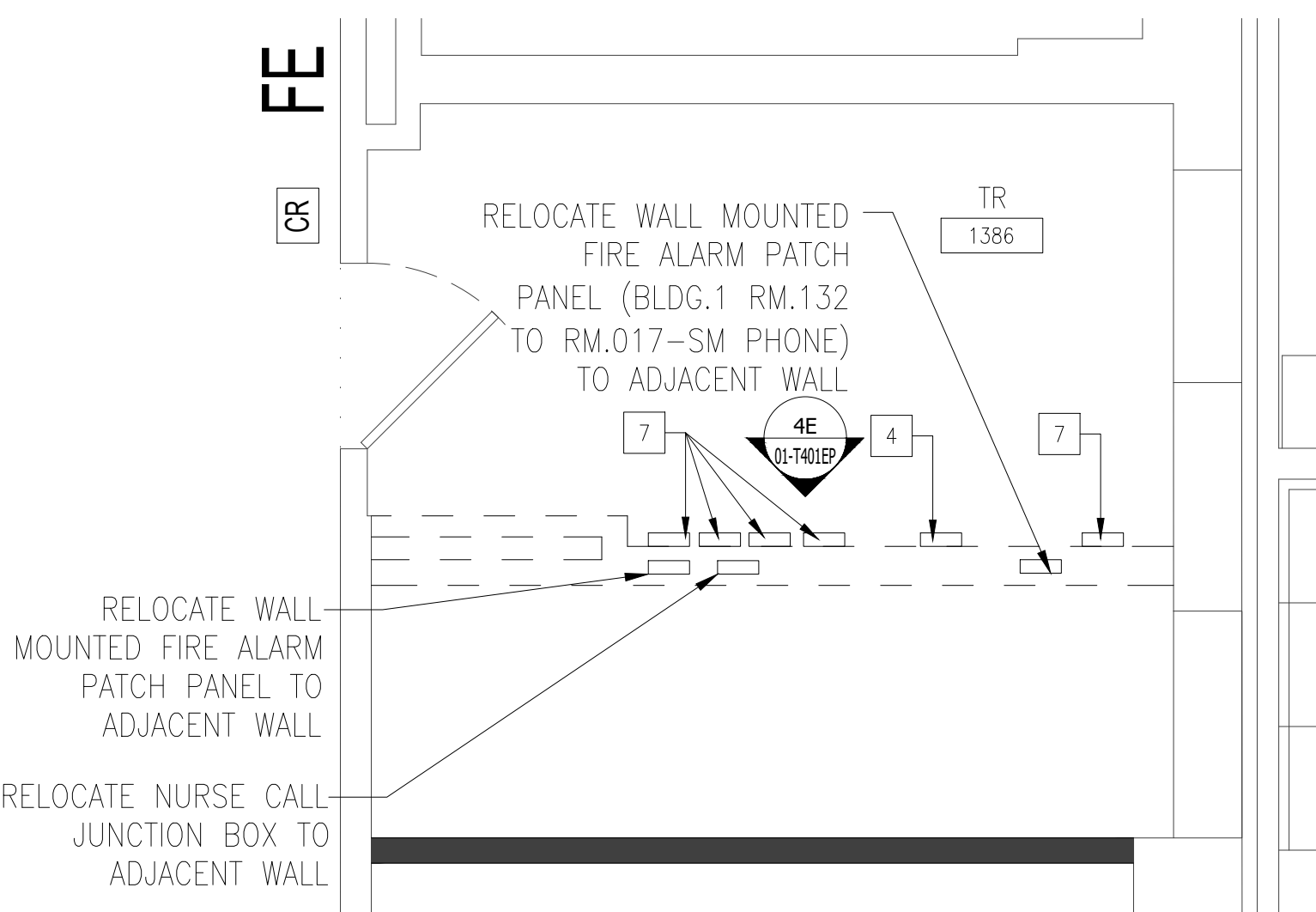


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3/8"=1'-0"

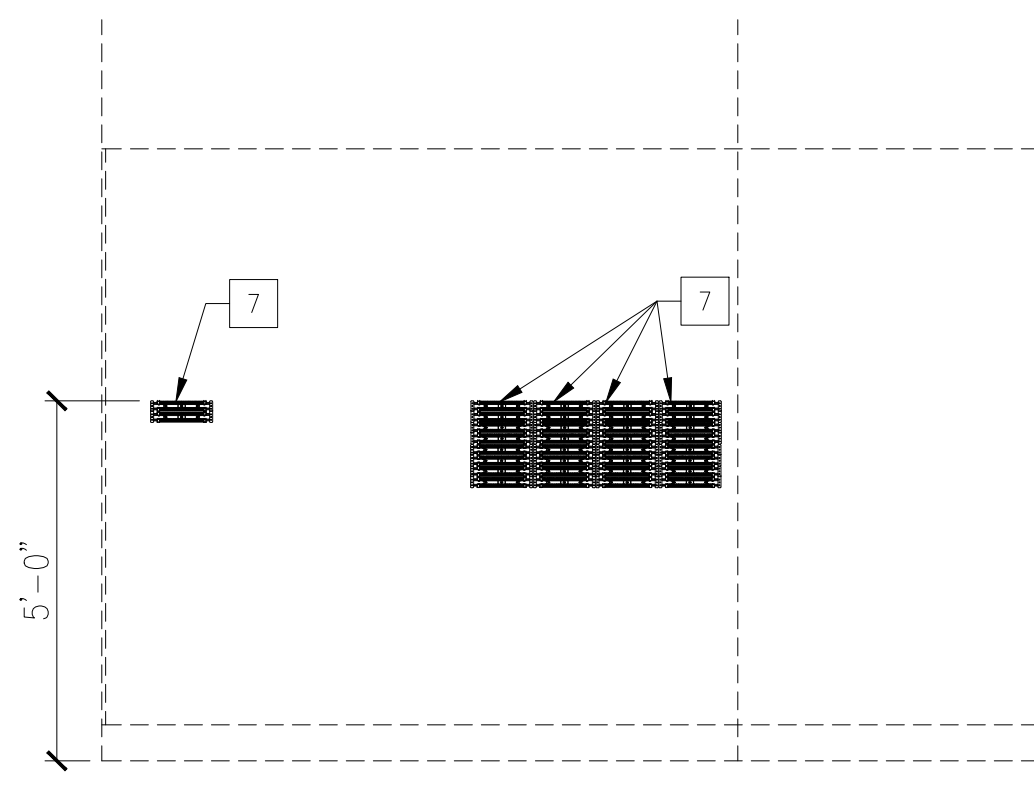
2E ELEVATION - RM 1352
3/8"=1'-0"



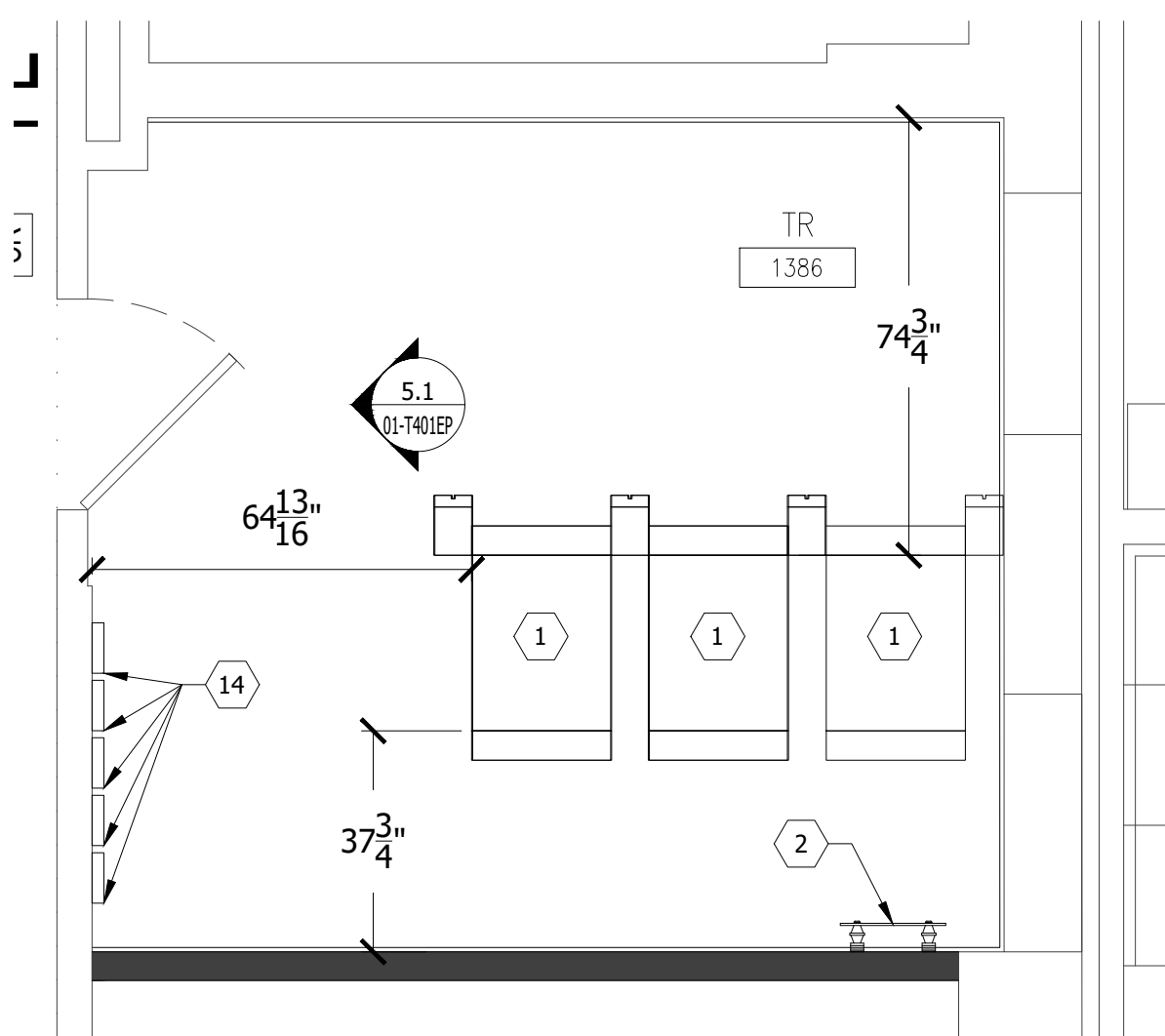
3 BUILDING 1 - FIRST FLOOR RM 1352 - CABLE TRAY LAYOUT
3/8"=1'-0"



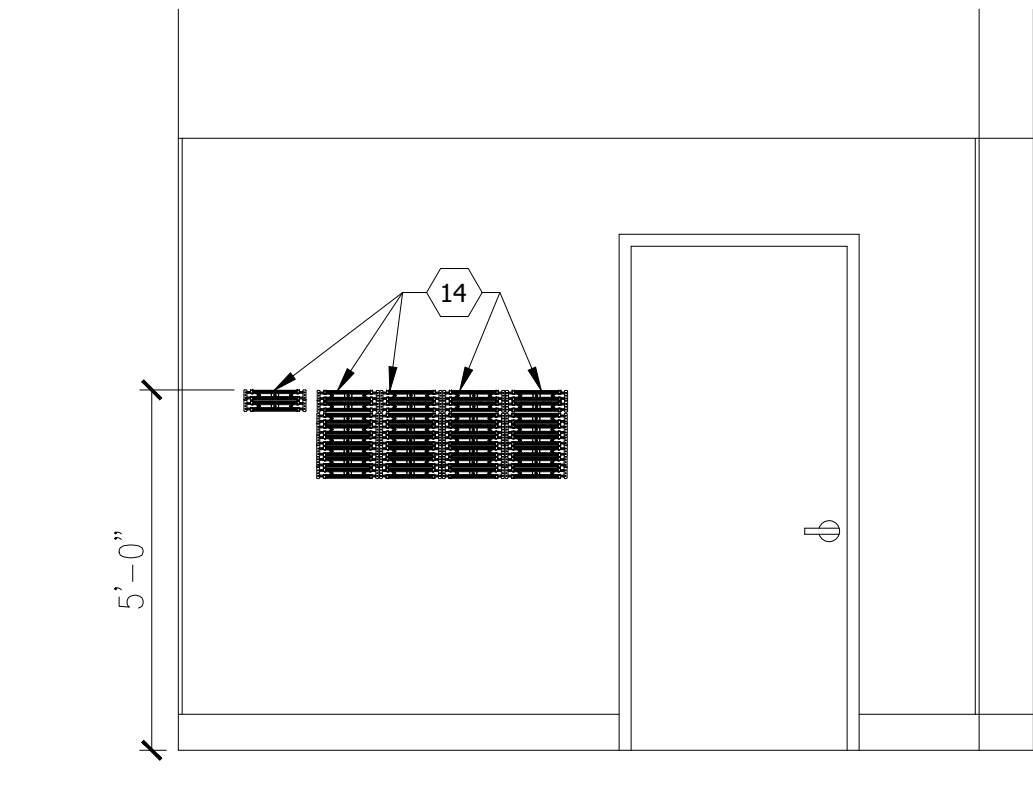
4 BUILDING 1 - FIRST FLOOR RM 1386 - DEMO
3/8"=1'-0"



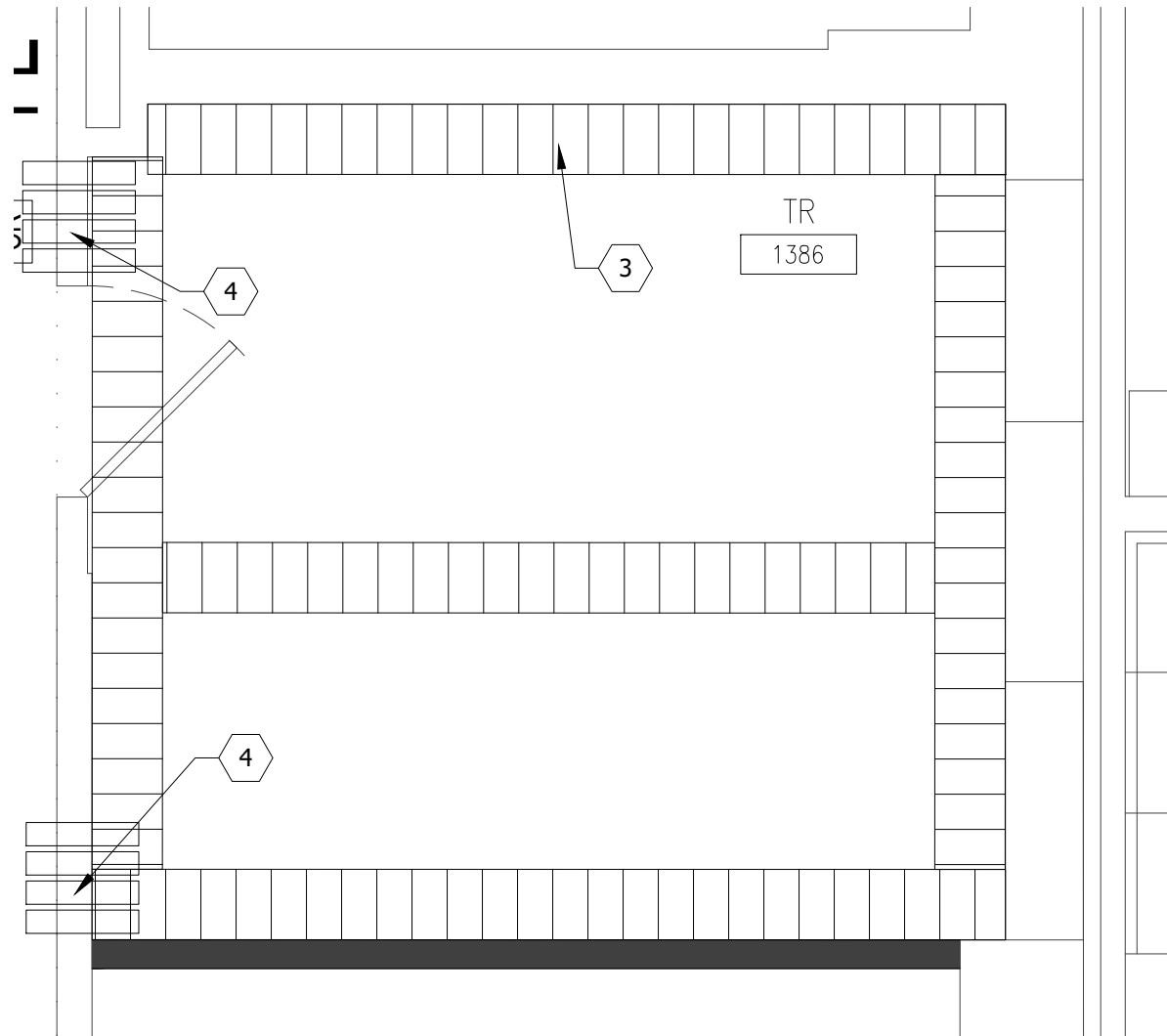
4E ELEVATION RM 1386 - DEMO
3/8"=1'-0"



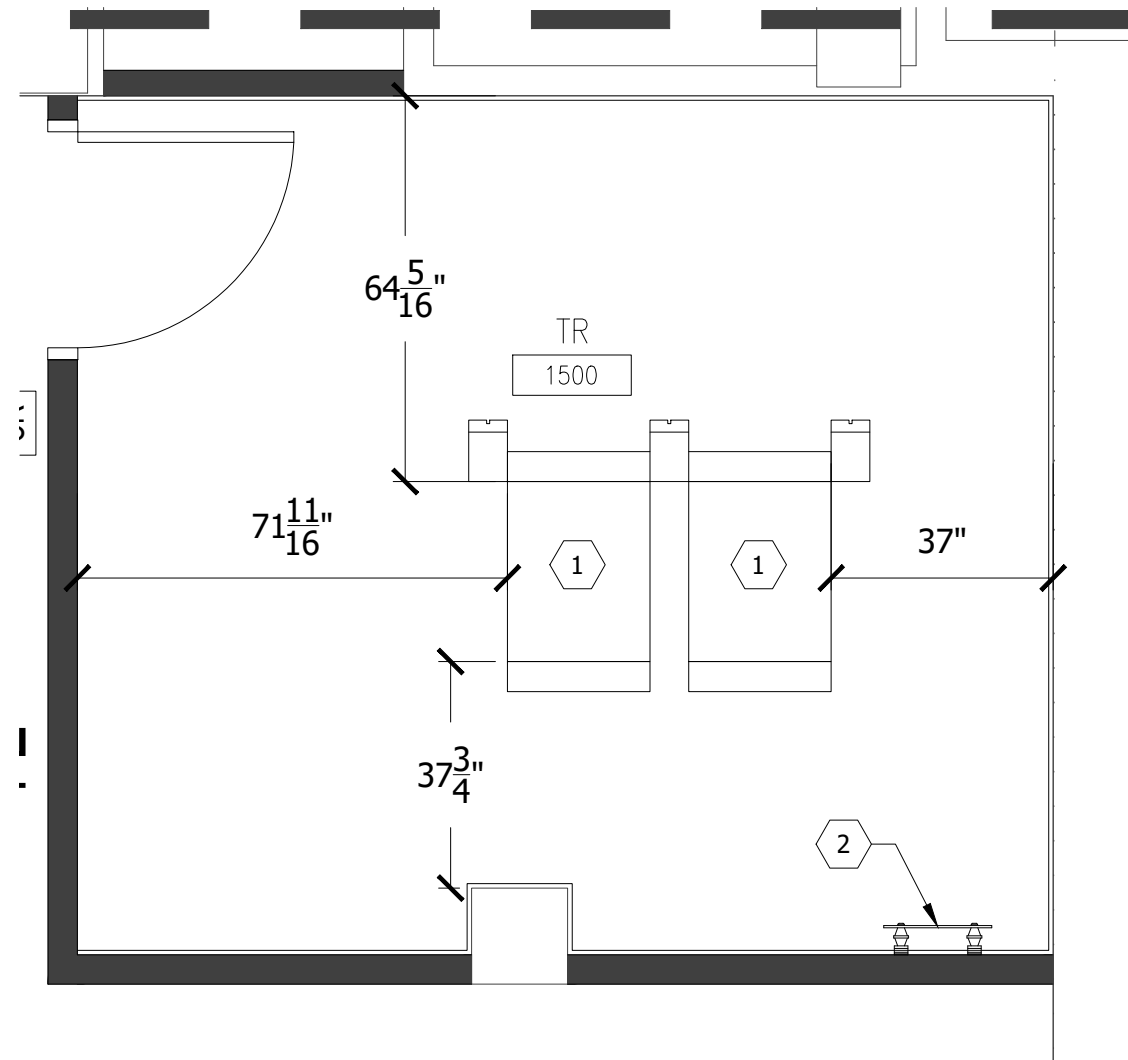
5 BUILDING 1 - FIRST FLOOR RM 1386
3/8"=1'-0"



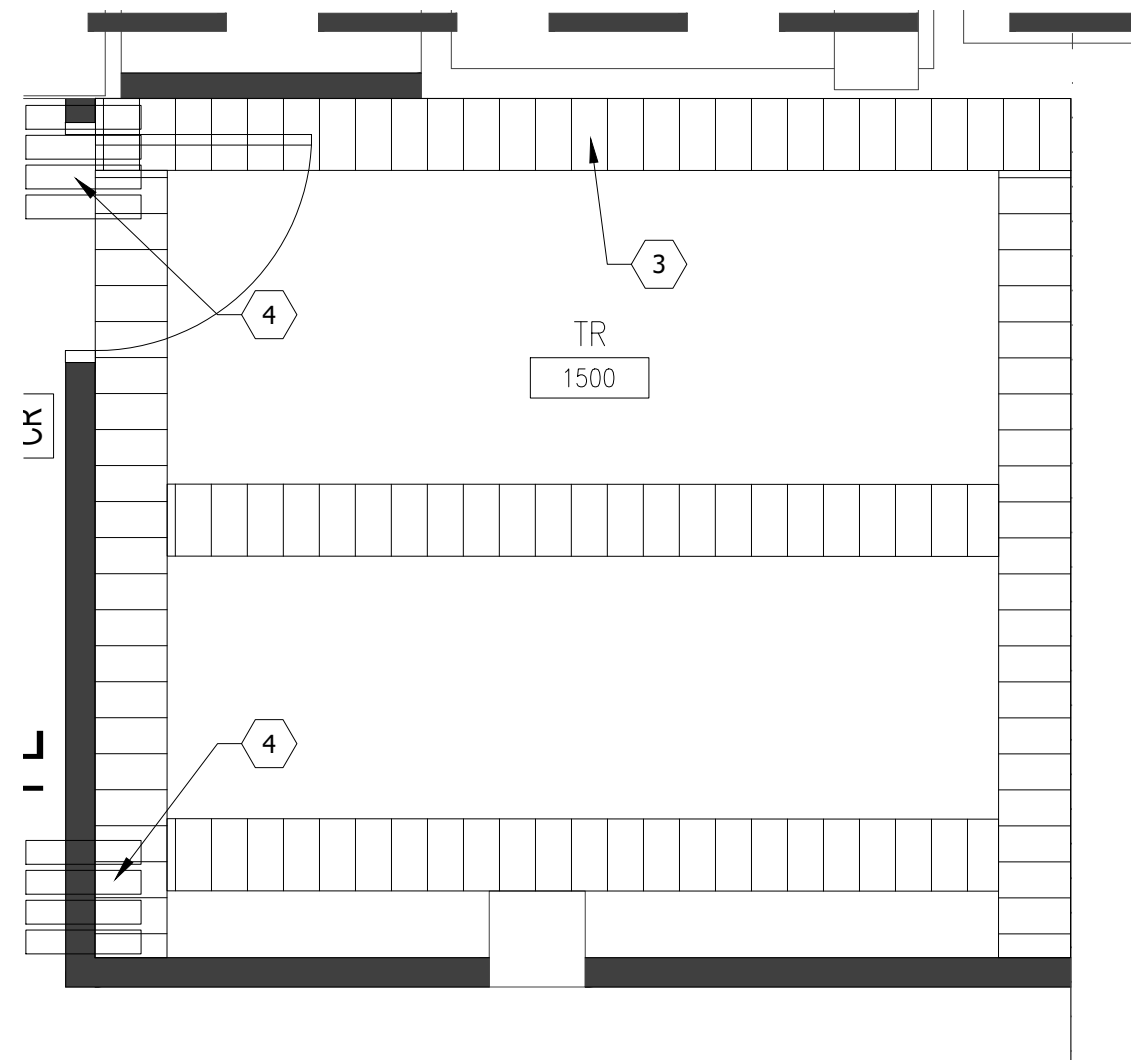
5E BUILDING 1 - ELEVATION RM 1386
3/8"=1'-0"



6 BUILDING 1 - FIRST FLOOR RM 1386 - CABLE TRAY LAYOUT
3/8"=1'-0"



7 BUILDING 1 - FIRST FLOOR RM 1500
3/8"=1'-0"



8 BUILDING 1 - FIRST FLOOR RM 1500 - CABLE TRAY LAYOUT
3/8"=1'-0"

DEMOLITION PLAN LEGEND

- EXISTING CONSTRUCTION TO REMAIN
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- AREA NOT IN CONTRACT

FLOOR PLAN LEGEND

- AREA NOT IN CONTRACT
- EXISTING PARTITION
- NEW PARTITION SURFACE MATERIAL
- EXISTING DOOR
- XXXXX ROOM NAME
- 1001 ROOM NUMBER
- EXISTING DOOR TO BE REMOVED

GENERAL NOTES

NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING.

- PROVIDE BASKET TYPE CABLE TRAY ALONG PRIMARY CABLE PATHWAYS WHEN THE CABLE BUNDLE EXCEEDS 24 CABLES. CABLE TRAY TO BE SIZED AS PER DETAIL 3 ON DRAWING TT-TD506.
- ALL PENETRATIONS TO BE SEALED AS REQUIRED TO MEET EXISTING RATINGS. MECHANICAL FIRE RATED PATHWAYS TO BE PROVIDED AT RATED WALLS AS DEPICTED ON DRAWINGS AND WHEN CABLE BUNDLE EXCEEDS 24 CABLES.
- VERIFY ALL COMPONENTS BONDED TO EXISTING TELECOMMUNICATION GROUNDING BUSBARS HAVE BEEN TAKEN OUT OF SERVICE OR HAS BEEN BONDED TO THE NEW TELECOMMUNICATION GROUNDING/BONDING SYSTEM PRIOR TO REMOVING EXISTING GROUNDING COMPONENTS.
- CARE SHALL BE TAKEN AS TO NOT DISRUPT OR DAMAGE EXISTING SYSTEMS INCLUDING BUT NOT LIMITED TO CATV, ACCESS CONTROL, FIRE ALARM, NURSE CALL, BUILDING AUTOMATION, DISTRIBUTED ANTENNA, PAGING.
- NO CABLES OR COMPONENTS SHALL BE REMOVED FROM SERVICE PRIOR TO AUTHORIZATION FROM PROJECT COR.
- FIELD VERIFY ALL CONDUIT PENETRATIONS AND CORE LOCATIONS.
- FOR IT INFORMATION AND SOW SEE DESIGN NARRATIVE/BASIS OF DESIGN.
- CONTRACTOR TO LOCATE EXISTING REINFORCING PRIOR TO DOING CORES FOR CONDUIT. DO NOT CUT REINFORCING. CORES SHALL HAVE A MINIMUM OF 4" CLEAR BETWEEN THEM. ADJUST CORE LOCATIONS AS NEEDED. AT LOCATIONS WITH MORE THAN (2) CORES GOING THROUGH A CMU WALL, SPACE CORES AT 16" MINIMUM.

TELECOM PLAN KEY NOTES

NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING.

- PROVIDE 45RU TELECOMMUNICATION CHANNEL RACK P/N: OR-MM2073038-W (OR EQUIVALENT), WITH 6.45" VERTICAL CABLE MANAGEMENT BETWEEN EACH RACK AND AT THE ENDS OF EACH RACK ROW P/N: OR-MM2070707 (OR EQUIVALENT). EACH RACK SHALL BE FASTENED TO THE FLOOR, INCLUDE A RACK BONDING BUS BAR (RBB), WITH (RBB) GROUND TO THE SECONDARY BONDING BUSBAR (SBB).
- PROVIDE SECONDARY BONDING BUSBAR (SBB), MOUNT AT 72" AFF.
- PROVIDE 18" X 4" BASKET TRAY, SECURE TO WALLS AND RACKS. GROUND TO SBB.
- PROVIDE FOUR (4) 4" MECHANICAL FIRE-RATED PATHWAY DEVICES FOR HORIZONTAL DISTRIBUTION.
- PROVIDE WALL MOUNTED TELECOM ENCLOSURE.
- PROVIDE TWO (2) 4" VERTICAL CORES WITH 4" MECHANICAL FIRE-RATED PATHWAY DEVICES FOR VERTICAL DISTRIBUTION. PROVIDE 18" LADDER TRAY MOUNTED TO WALL FROM FLOOR TO TRAY ABOVE.
- PROVIDE FOUR (4) 4" VERTICAL CORES WITH 4" MECHANICAL FIRE-RATED PATHWAY DEVICES FOR VERTICAL DISTRIBUTION. PROVIDE 24" WIDE LADDER TRAY MOUNTED TO WALL FROM FLOOR TO TRAY ABOVE. GROUND TO SBB.
- PROVIDE TWO (2) 4" MECHANICAL FIRE-RATED PATHWAY DEVICES FOR HORIZONTAL DISTRIBUTION.
- PROVIDE 2 SETS OF FOUR (4) 4" MECHANICAL FIRE-RATED PATHWAY DEVICES FOR HORIZONTAL DISTRIBUTION.
- EXISTING 110 BLOCK VOICE WALL FIELD TO REMAIN.
- EXISTING CATV COMPONENTS AND ASSOCIATED CABLEING TO REMAIN.
- EXISTING WALL MOUNTED EQUIPMENT RACK AND ASSOCIATED COMPONENTS TO REMAIN.
- EXISTING WALL MOUNTED SHELF AND ASSOCIATED COMPONENTS TO BE RELOCATED TO THIS LOCATION. MOUNT AT 96" AFF.
- EXISTING 110 BLOCK VOICE WALL FIELD TO BE RELOCATED TO THIS LOCATION.
- EXISTING CATV COMPONENTS AND ASSOCIATED CABLEING TO BE RELOCATED TO THIS LOCATION.
- EXISTING EQUIPMENT CABINET AND ASSOCIATED CABLEING TO REMAIN AS REQUIRED TO SUPPORT SYSTEMS THAT ARE NOT IN SCOPE.
- EXISTING VERIZON WIRELESS EQUIPMENT AND ASSOCIATED CABLEING TO BE RELOCATED TO THIS LOCATION.
- EXISTING NURSE CALL PANELS AND ASSOCIATED CABLEING TO REMAIN.
- EXISTING SYSTEMS TO BE MIGRATED INTO NEW CHANNEL RACK.

TELECOM DEMO KEY NOTES

NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING.

- EXISTING FLOOR MOUNTED TWO POST RACK ASSOCIATED HORIZONTAL CABLEING AND PATCH PANELS TO BE REMOVED.
- EXISTING FLOOR MOUNTED FOUR POST RACK TO BE REMOVED.
- EXISTING WALL MOUNTED RACK ASSOCIATED HORIZONTAL CABLEING AND PATCH PANELS TO BE REMOVED.
- EXISTING WALL OPTICAL FIBER PATCH PANEL ASSOCIATED CABLEING AND INNER DUCT TO BE REMOVED.
- EXISTING TELECOMMUNICATION GROUND BUS TO BE REMOVED.
- EXISTING FLOOR MOUNTED CABINET AND ASSOCIATED CABLEING TO BE REMOVED.
- EXISTING WALL MOUNTED SHELF AND ASSOCIATED COMPONENTS TO BE RELOCATED.
- EXISTING 110 BLOCK VOICE WALL FIELD TO BE RELOCATED.
- EXISTING CATV COMPONENTS AND ASSOCIATED CABLEING TO BE RELOCATED.
- EXISTING VERIZON WIRELESS EQUIPMENT AND ASSOCIATED CABLEING TO BE RELOCATED.

ISSUE FOR BID	09/02/2022
FINAL CONSTRUCTION DOCUMENTS RESUBMISSION 3	08/09/2022
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Revisions:	Date:

CONSULTANT

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ARCHITECT/ENGINEER OF RECORD

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VA CONTRACT NO. 36C26319D0044
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Northbrook, IL 60062
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www.bancroft-ae.com
BAE PROJECT NO. 18-121

STAMP

Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title
ENLARGED PLAN - BUILDING 1 - FIRST FLOOR -
TELECOM ROOM EQUIPMENT PLAN

Approved: Project Director

Phase

CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title

EHRM INFRASTRUCTURE
UPGRADES

Location

DES MOINES, IOWA

Issue Date

09/02/2022

Checked BY

BY

Drawn CF

CF

Project Number

636A6-21-101

Building Number

1, 2, 3, 4, 5, 6M, 7M, 9, 10,
11, 12, 21, 24, 25, 27, & 28

Drawing Number

01-T401EP

A

B

C

D

E

F

DEMOLITION PLAN LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED IN ITS ENTIRETY, INCLUDING WALL SWITCHES, OUTLETS, THERMOSTATS, ETC. PATCH ABUTTING WALLS, FLOORS AND CEILINGS AS REQUIRED. REMOVE EXISTING ITEMS SCHEDULED TO REMAIN AS NECESSARY TO ALLOW THE COMPLETE DEMOLITION OF SELECTED ITEMS. REPAIR/REPLACE EXISTING ITEMS ONCE DEMOLITION IS COMPLETED.
- AREA NOT IN CONTRACT

FLOOR PLAN LEGEND

- AREA NOT IN CONTRACT
- EXISTING PARTITION
- NEW PARTITION SURFACE MATERIAL
- EXISTING DOOR

XXXX

ROOM NAME

1001

ROOM NUMBEREXISTING DOOR TO BE REMOVED

GENERAL NOTES

NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING.

1. PROVIDE BASKET TYPE CABLE TRAY ALONG PRIMARY CABLE PATHWAYS WHEN THE CABLE BUNDLE EXCEEDS 24 CABLES. CABLE TRAY TO BE SIZED AS PER DETAIL 3 ON DRAWING TT-TD506.
2. ALL PENETRATIONS TO BE SEALED AS REQUIRED TO MEET EXISTING RATINGS. MECHANICAL FIRE RATED PATHWAYS TO BE PROVIDED AT RATED WALLS AS DEPICTED ON DRAWINGS AND WHEN CABLE BUNDLE EXCEEDS 24 CABLES.
3. VERIFY ALL COMPONENTS BONDED TO EXISTING TELECOMMUNICATION GROUNDING BUSBARS HAVE BEEN TAKEN OUT OF SERVICE OR HAS BEEN BONDED TO THE NEW TELECOMMUNICATION GROUNDING/BONDING SYSTEM PRIOR TO REMOVING EXISTING GROUNDING COMPONENTS.
4. CARE SHALL BE TAKEN AS TO NOT DISRUPT OR DAMAGE EXISTING SYSTEMS INCLUDING BUT NOT LIMITED TO CATV, ACCESS CONTROL, FIRE ALARM, NURSE CALL, BUILDING AUTOMATION, DISTRIBUTED ANTENNA, PAGING.
5. NO CABLES OR COMPONENTS SHALL BE REMOVED FROM SERVICE PRIOR TO AUTHORIZATION FROM PROJECT COR.
6. FIELD VERIFY ALL CONDUIT PENETRATIONS AND CORE LOCATIONS.
7. FOR IT INFORMATION AND SOW SEE DESIGN NARRATIVE/BASIS OF DESIGN.
8. CONTRACTOR TO LOCATE EXISTING REINFORCING PRIOR TO DOING CORES FOR CONDUIT. DO NOT CUT REINFORCING. CORES SHALL HAVE A MINIMUM OF 4" CLEAR BETWEEN THEM. ADJUST CORE LOCATIONS AS NEEDED. AT LOCATIONS WITH MORE THAN (2) CORES GOING THROUGH A CMU WALL, SPACE CORES AT 16" MINIMUM.

TELECOM PLAN KEY NOTES

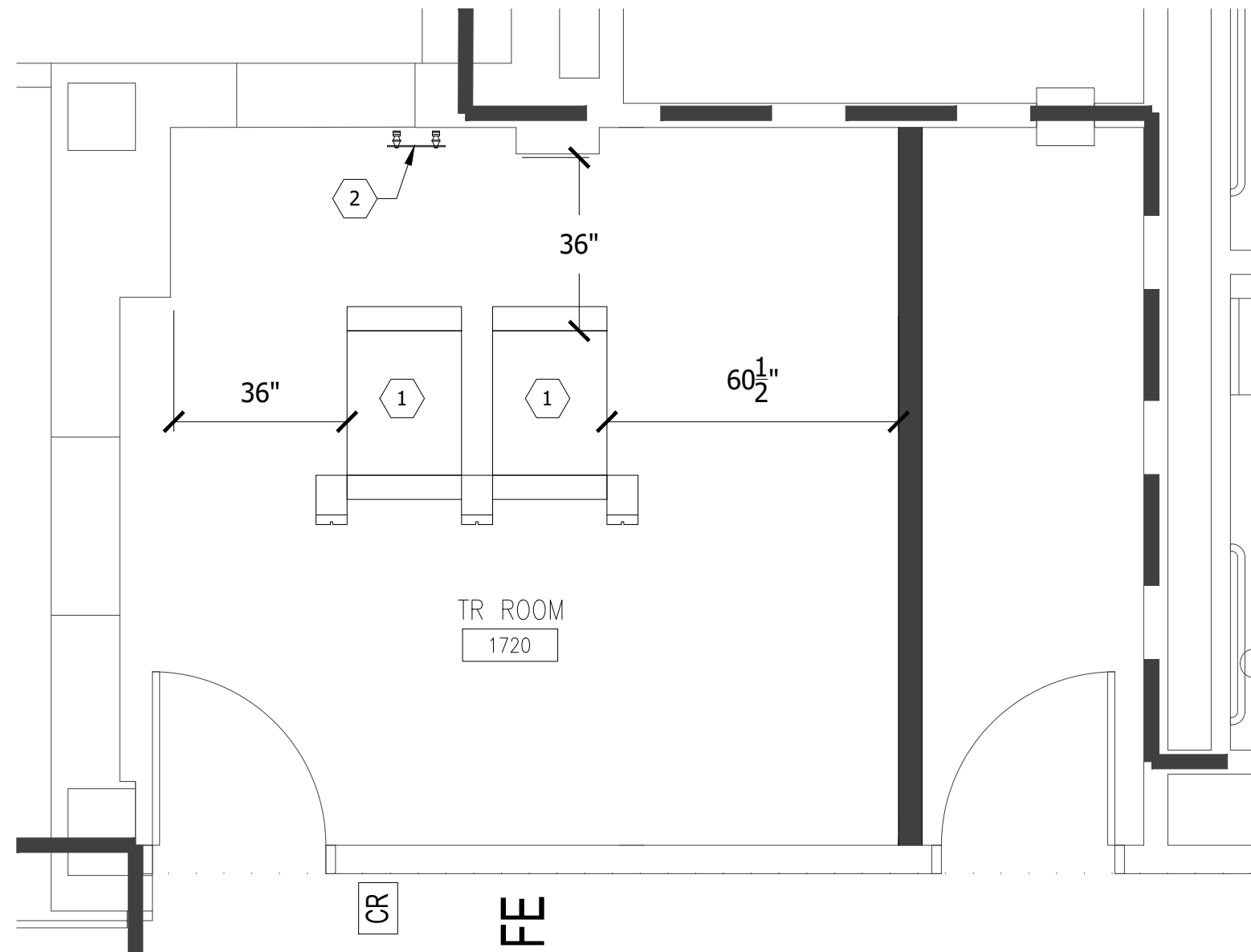
NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING.

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2. PROVIDE SECONDARY BONDING BUSBAR (SBB), MOUNT AT 72" AFF.
3. PROVIDE 18" X 4" BASKET TRAY. SECURE TO WALLS AND RACKS. GROUND TO SBB.
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5. PROVIDE WALL MOUNTED TELECOM ENCLOSURE.
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18. EXISTING NURSE CALL PANELS AND ASSOCIATED CABLEING TO REMAIN.
19. EXISTING SYSTEMS TO BE MIGRATED INTO NEW CHANNEL RACK.

TELECOM DEMO KEY NOTES

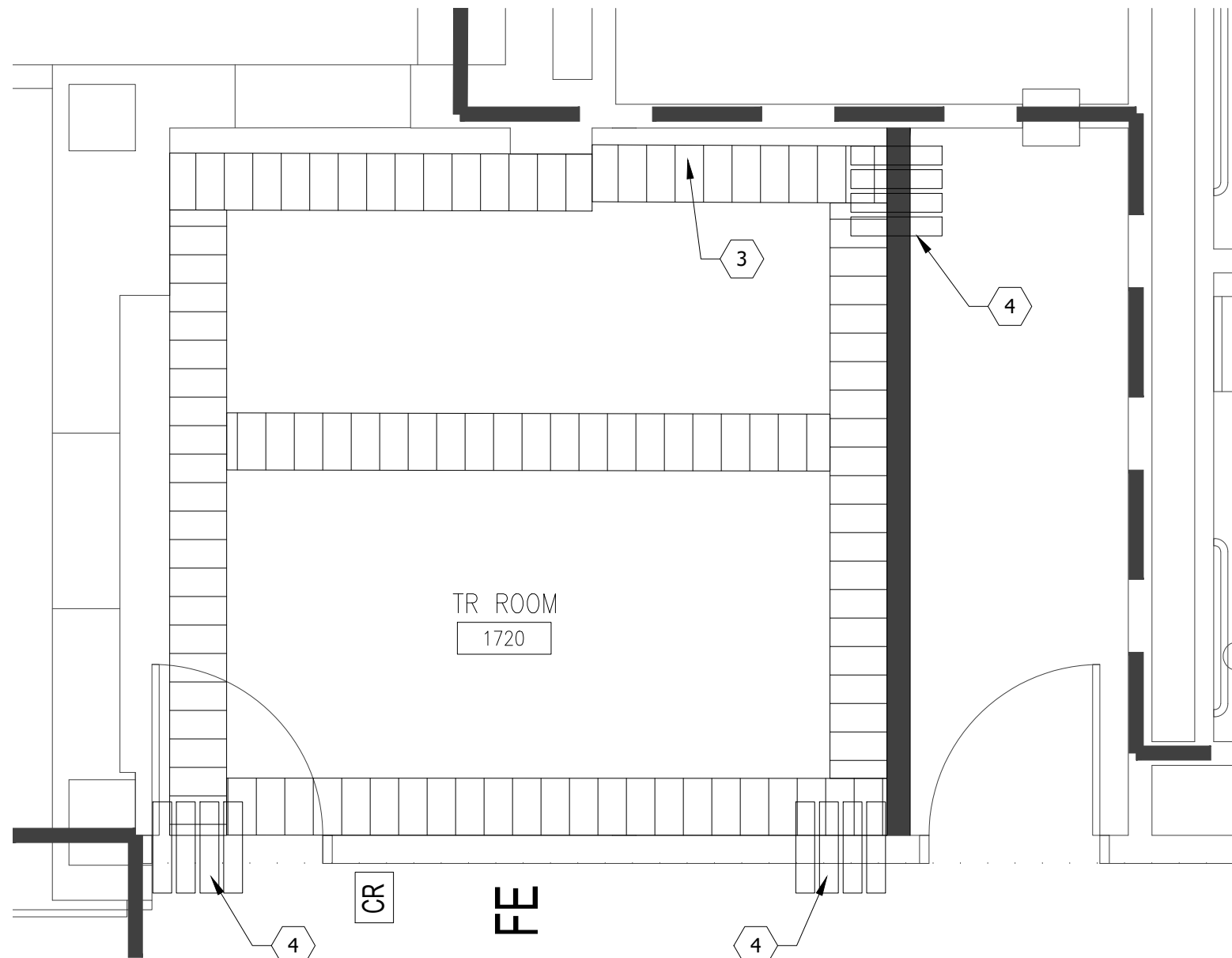
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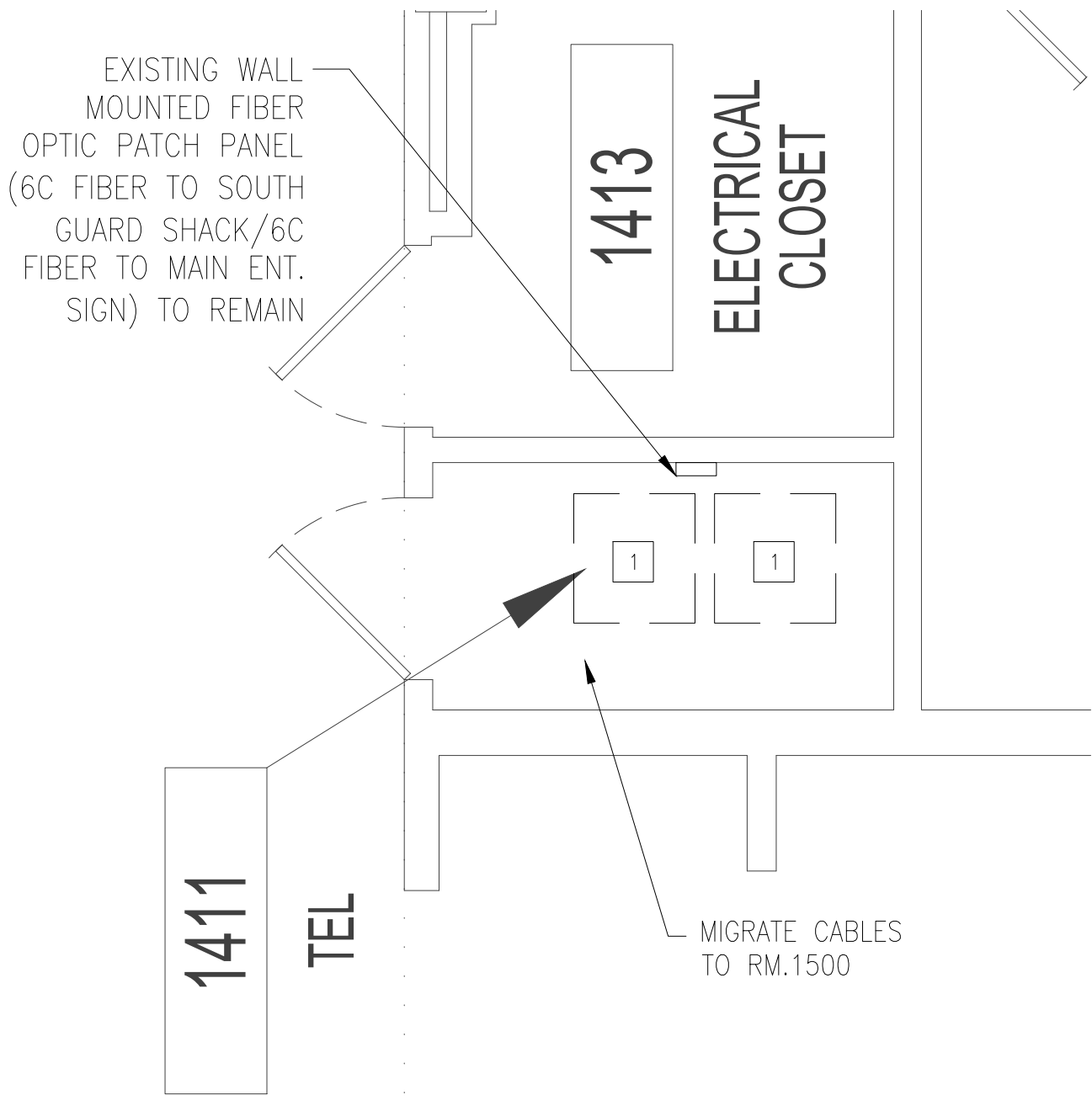
1 BUILDING 1 - FIRST FLOOR RM 1720

3/8"=1'-0"



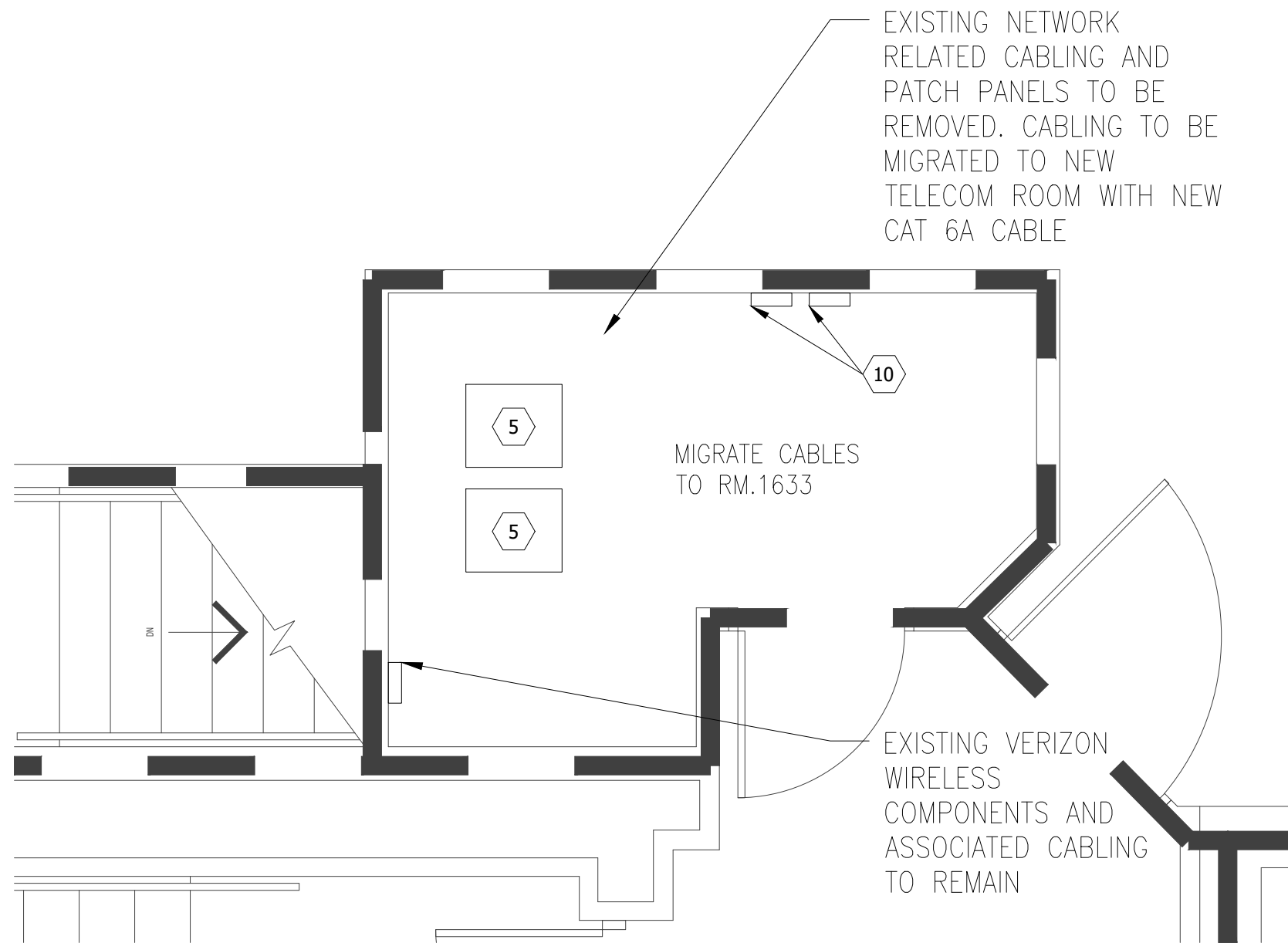
2 BUILDING 1 - FIRST FLOOR RM. 1720 - CABLE TRAY LAYOUT

3/8"=1'-0"



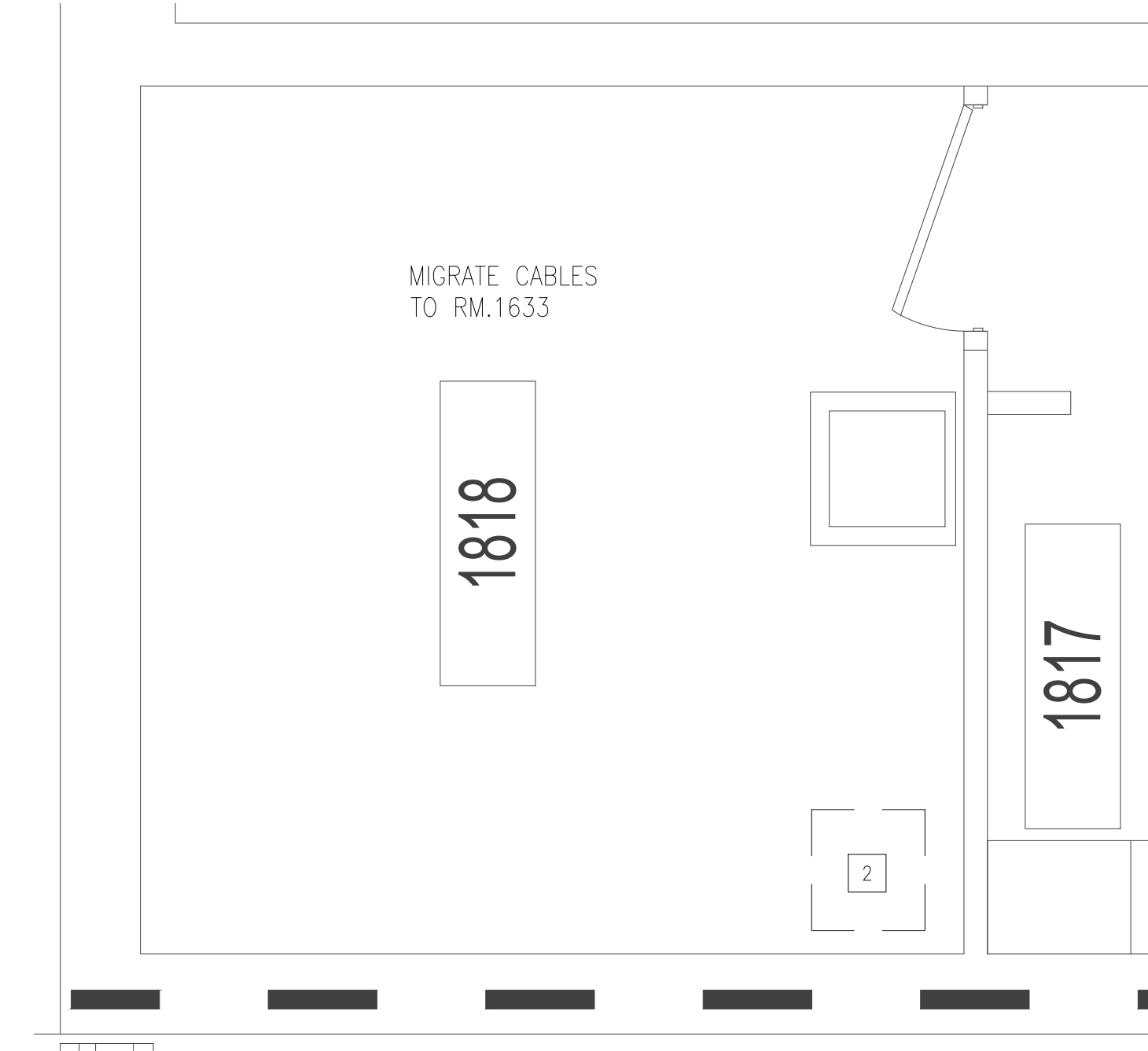
3 BUILDING 1 - FIRST FLOOR RM 1411 - DEMO

3/8"=1'-0"



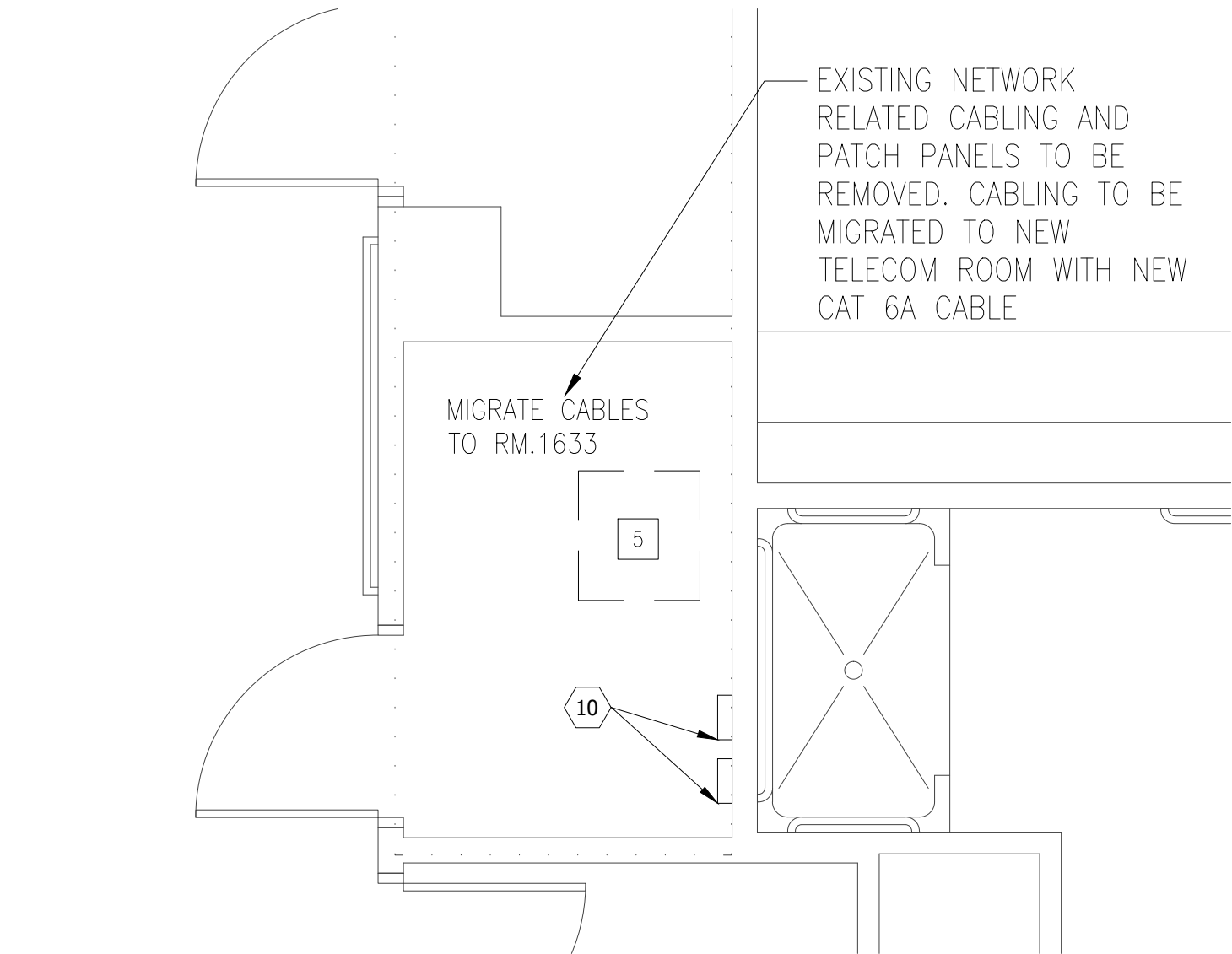
4 BUILDING 1 - FIRST FLOOR RM 1638 - DEMO

3/8"=1'-0"



5 BUILDING 1 - FIRST FLOOR RM 1818 - DEMO

3/8"=1'-0"



6 BUILDING 1 - FIRST FLOOR RM 1834 - DEMO

3/8"=1'-0"

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ARCHITECT/ENGINEER OF RECORD

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BAE PROJECT NO. 18-121

STAMP

Office of
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U.S. Department
of Veterans Affairs

Drawing Title
ENLARGED PLAN - BUILDING 1 - FIRST FLOOR -
TELECOM ROOM EQUIPMENT PLAN

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE
UPGRADES

Location
DES MOINES, IOWA

Issue Date
09/02/2022

Checked
BY

Drawn
CF

Project Number
636A6-21-101

Building Number
1, 2, 3, 4, 5, 6M, 7M, 9, 10,
11, 12, 21, 24, 25, 27, & 28

Drawing Number
01-T401.1EP

FLOOR PLAN LEGEND

AREA NOT IN CONTRACT
EXISTING PARTITION
NEW PARTITION
SURFACE MATERIAL
EXISTING DOOR

XXXXX ROOM NAME
1001 ROOM NUMBER
EXISTING DOOR TO BE REMOVED

NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING

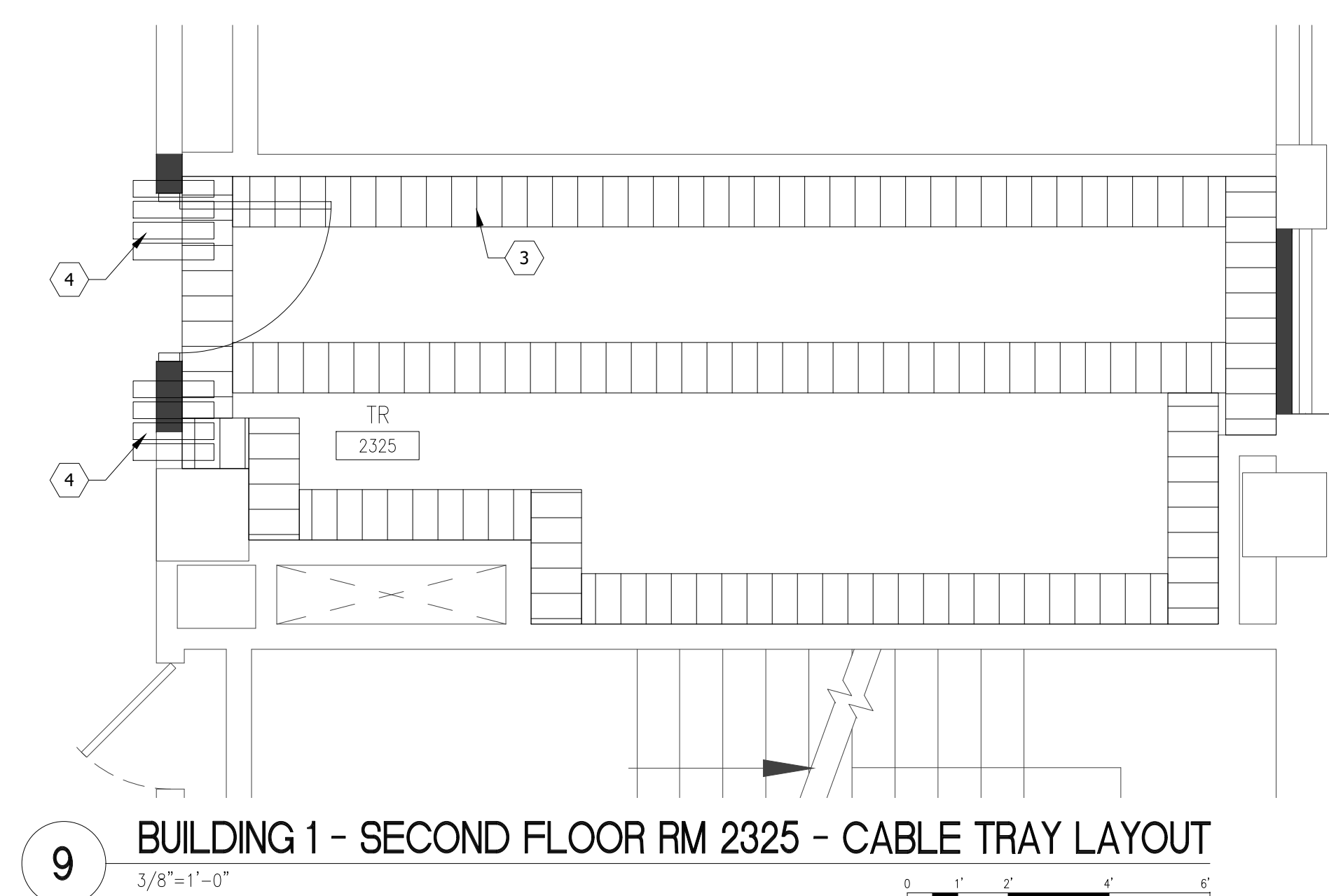
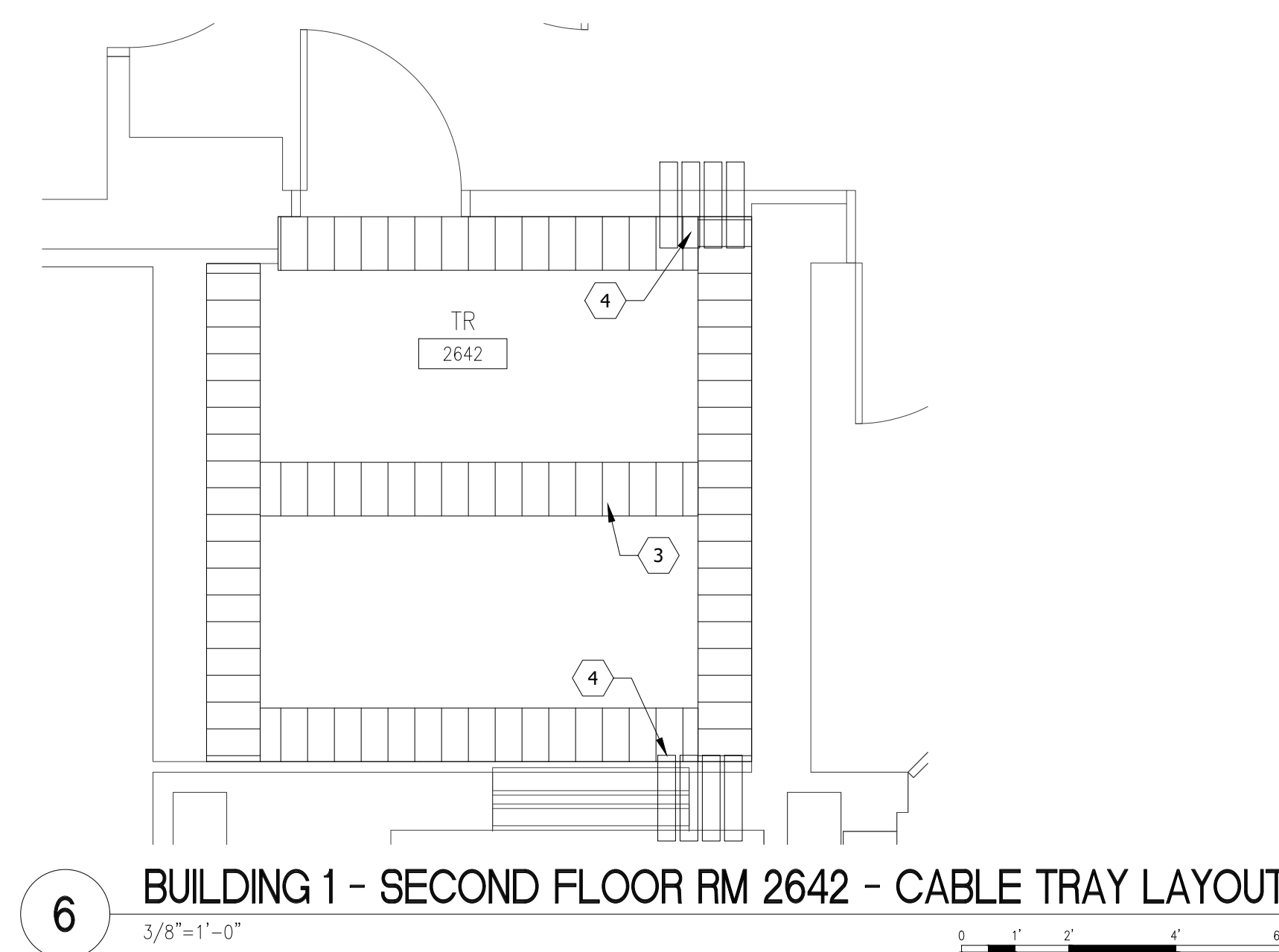
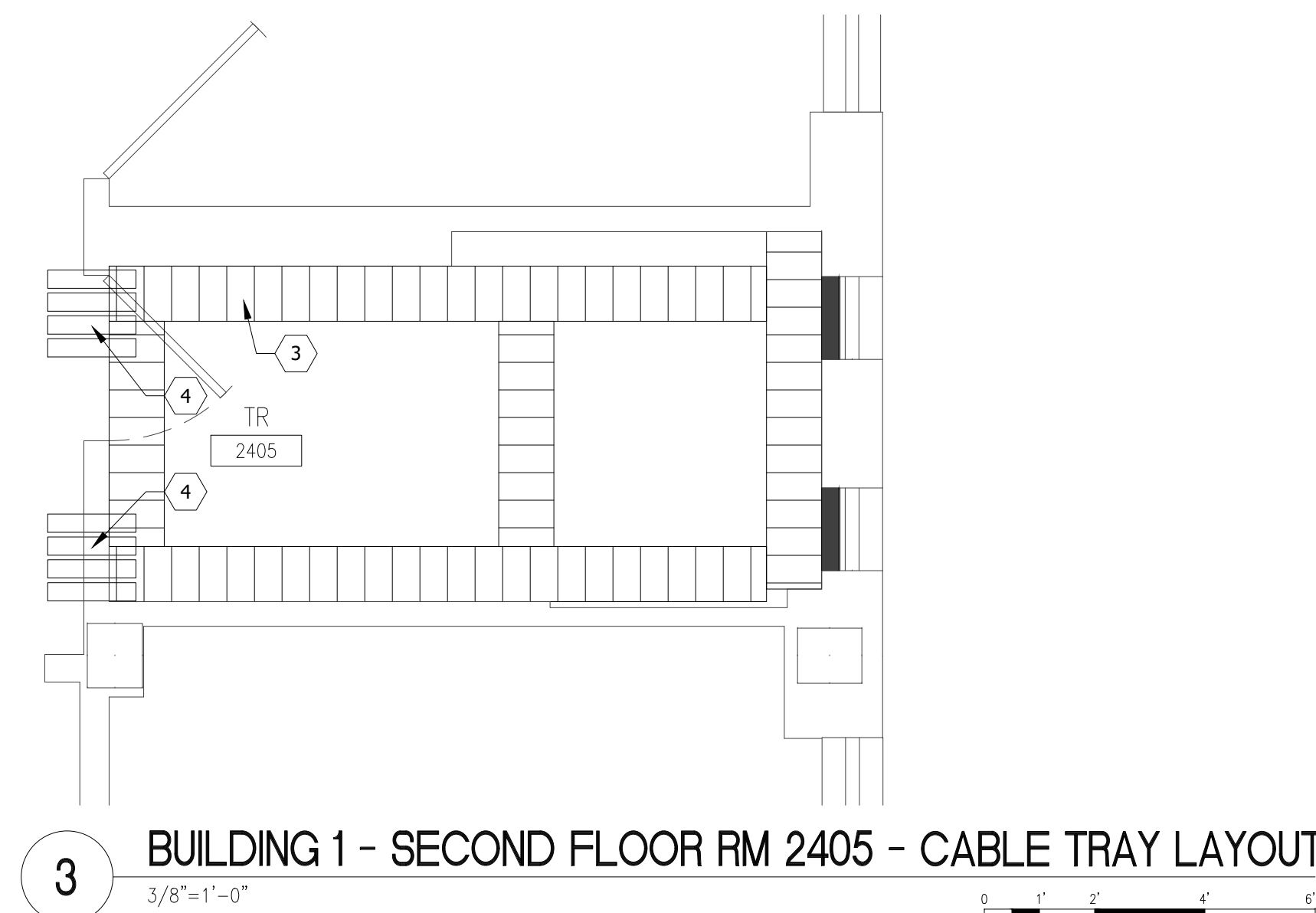
TELECOM PLAN KEY NOTES

NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING

- TELECOM DEMO KEY NOTES

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- | | | | | | |
|----|--|-------------------|-----------------|--|--|
| ED | Project Title
EHRM INFRASTRUCTURE UPGRADES | | | Project Number
636A6-21-101 | |
| | Location
DES MOINES, IOWA | | | Building Number
1, 2, 3, 4, 5, 6M, 7M, 9, 10, 11, 12, 21, 24, 25, 27, & 28 | |
| | | | | Drawing Number
01-T402EP | |
| | Issue Date
09/02/2022 | Checked BY | Drawn CF | | |



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Building Number 1, 2, 3, 4, 5, 6M, 7M, 9, 10, 11, 12, 21, 24, 25, 27, & 28			Drawing Number
Location DES MOINES, IOWA			
Issue Date 09/02/2022	Checked BY	Drawn CF	01-T402EP

FLOOR PLAN LEGEND

- AREA NOT IN EXISTING PARTITION
- XXXXX ROOM NAME
1001 ROOM NUMBER
- NEW PARTITION SURFACE MATERIAL
- EXISTING DOOR
- EXISTING DOOR TO BE REMOVED

NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING

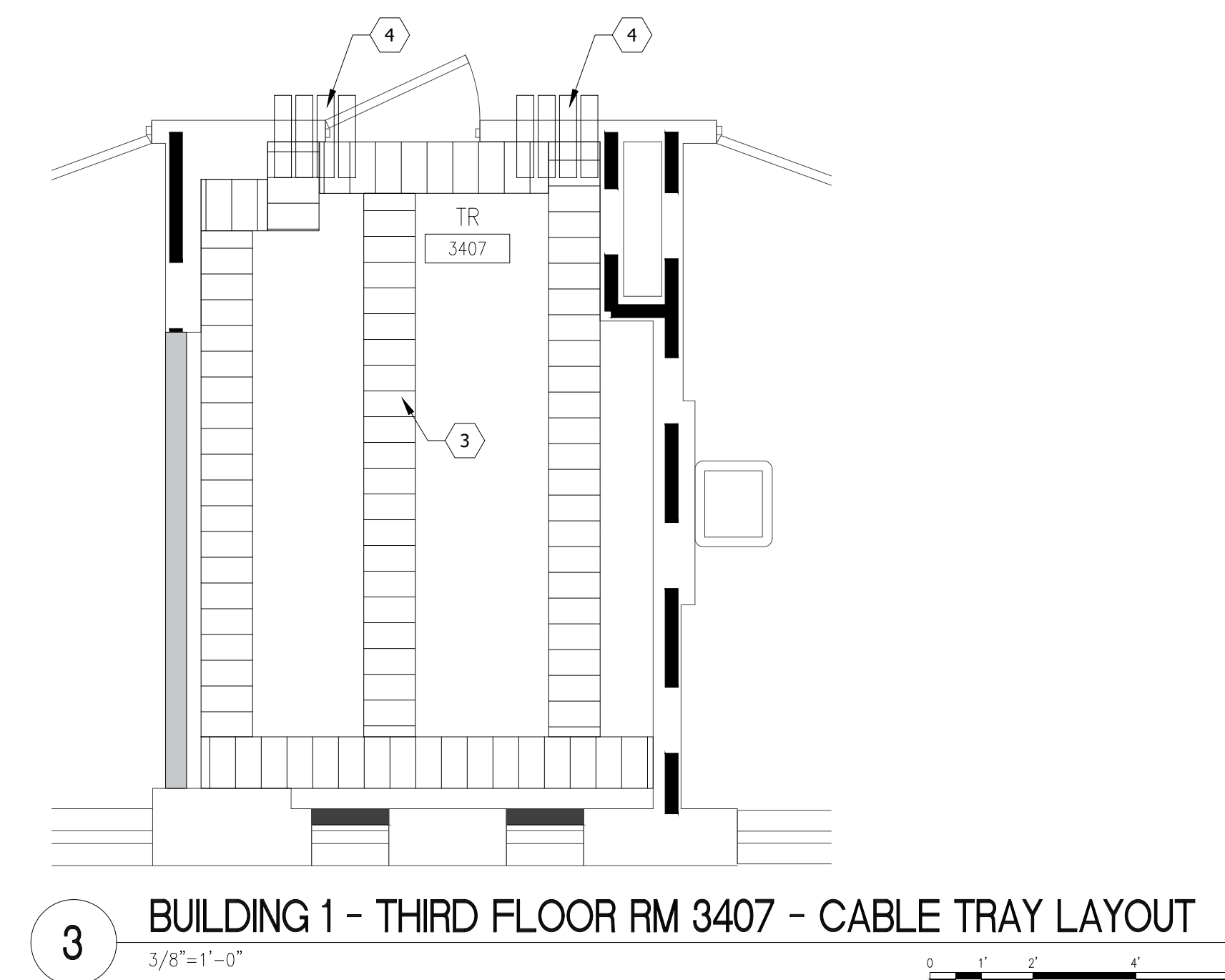
- ## TELECOM PLAN KEY NOTES

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| | Checked BY | Drawn CF | | | |



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EHRM INFRASTRUCTURE UPGRADES			636A6-21-101		
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Checked BY		Drawn CF			