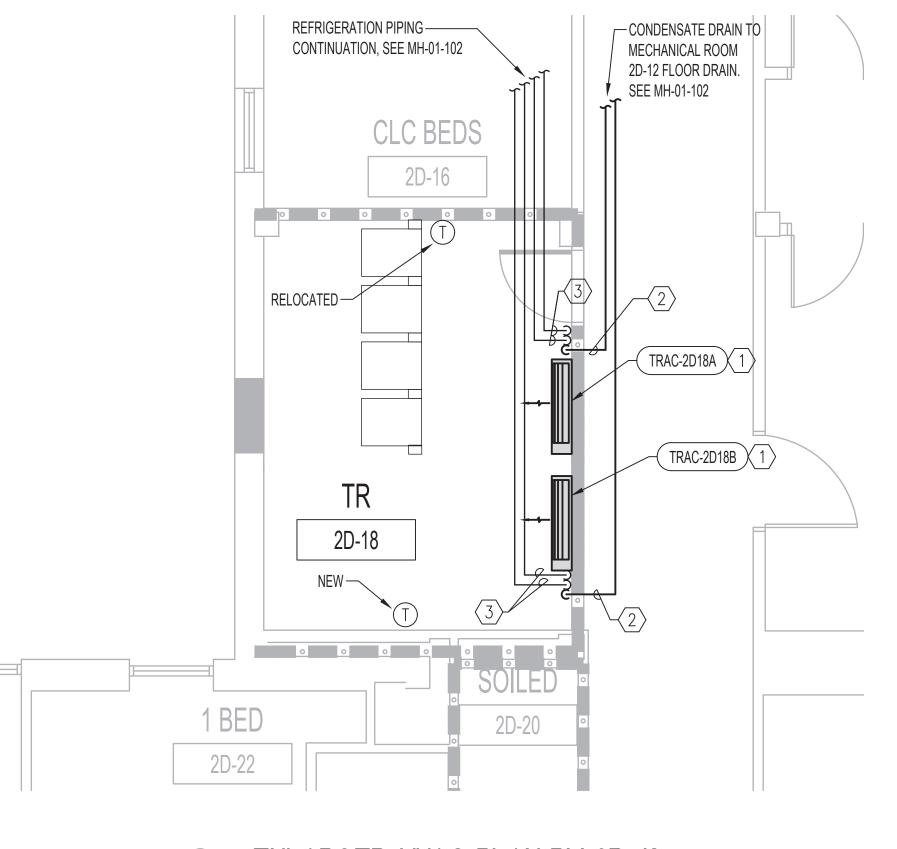
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MECHANICAL KEY NOTES - NEW WORK

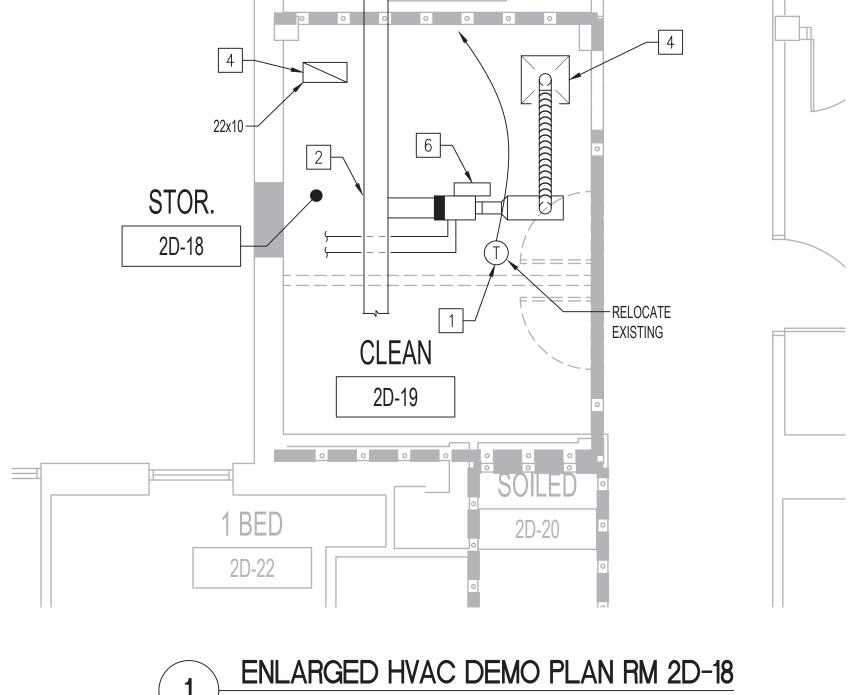
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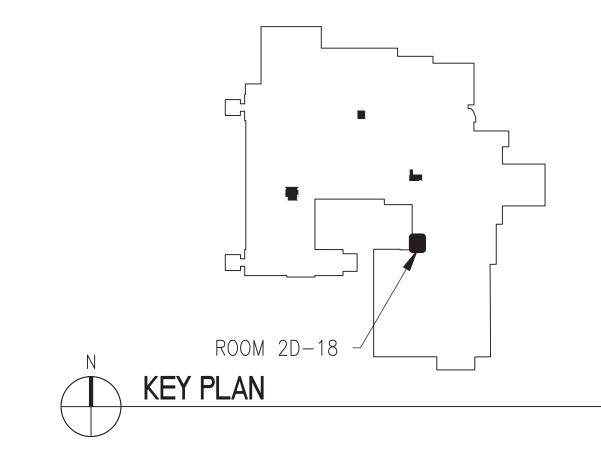


ENLARGED HVAC PLAN RM 2D-18

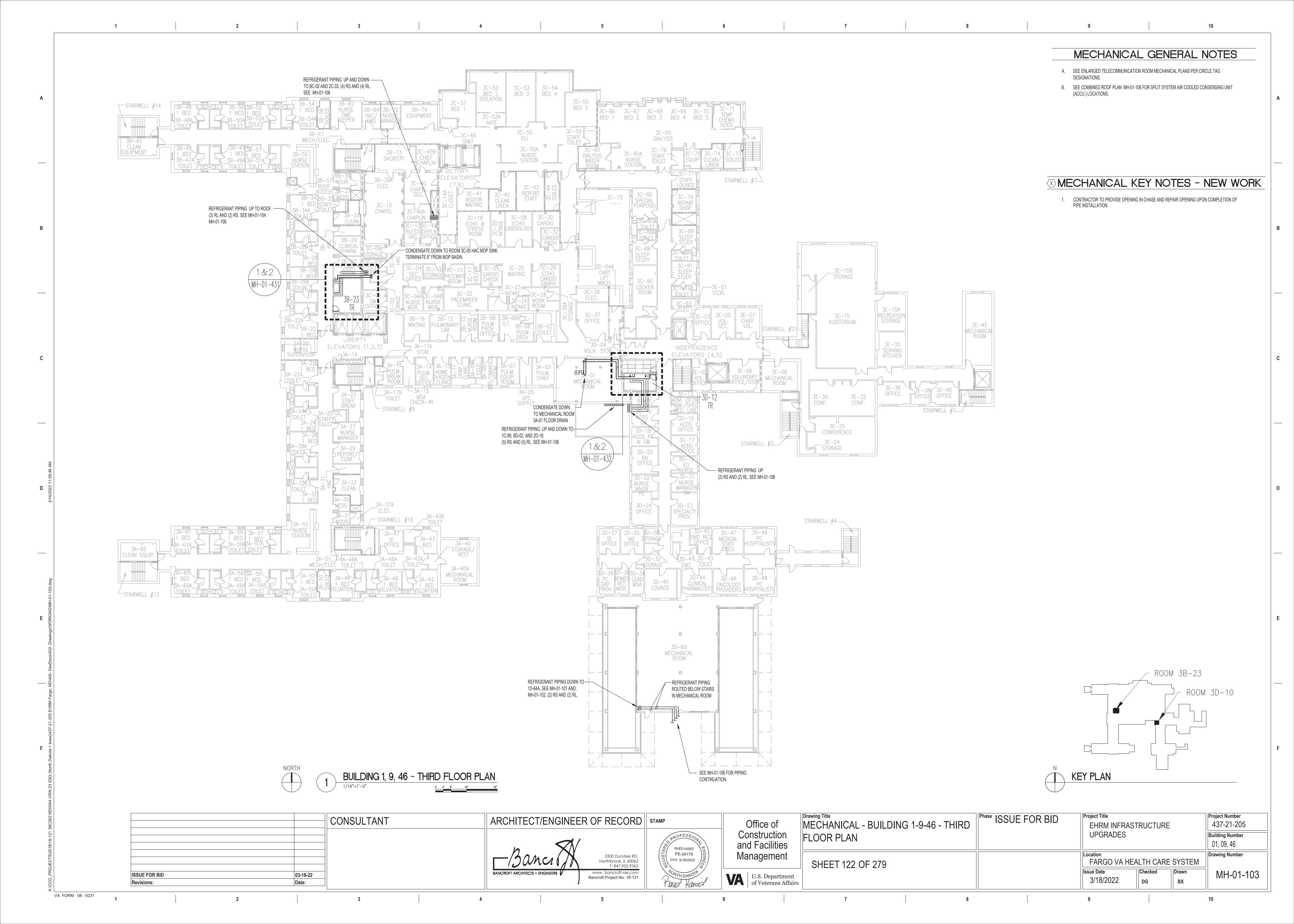


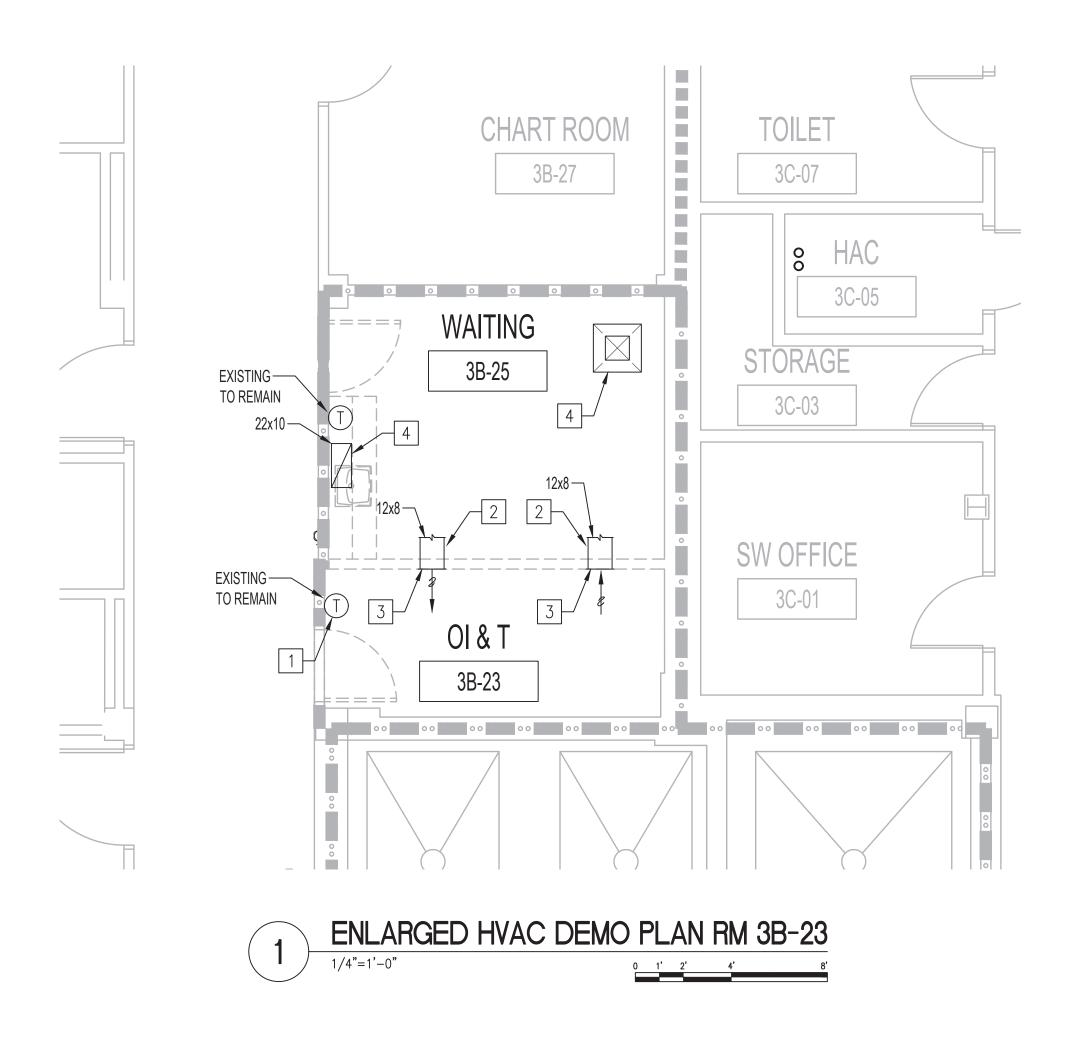
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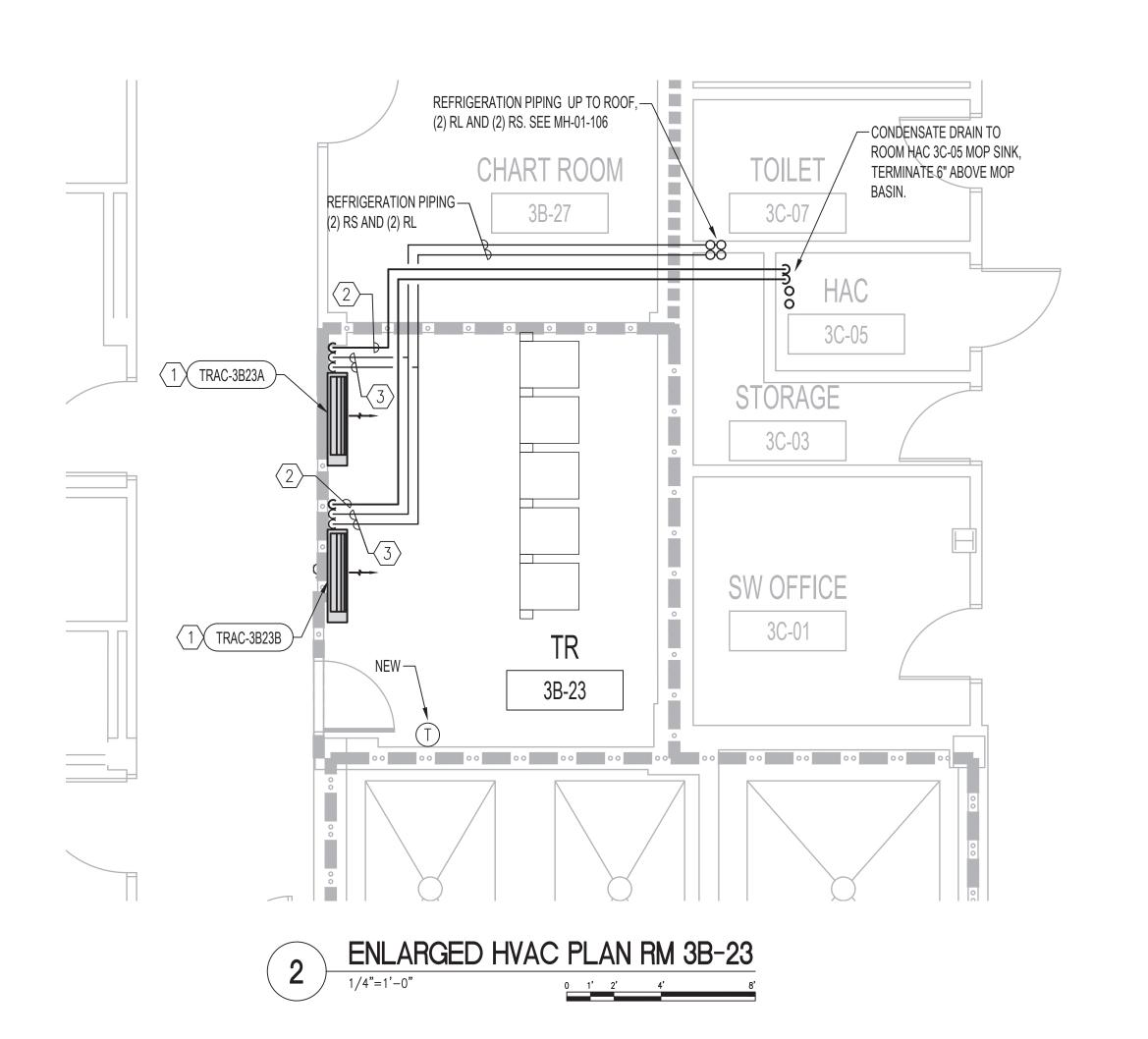
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Project Title Project Number Phase ISSUE FOR BID CONSULTANT ARCHITECT/ENGINEER OF RECORD | STAMP Office of MECHANICAL - BUILDING 1-9-46 -437-21-205 EHRM INFRASTRUCTURE Construction and Facilities **UPGRADES Building Number** ENLARGED PLANS - SECOND FLOOR 01, 09, 46 RAED HAMID Drawing Number PE-28170 Management 3300 Dundee RD. FARGO VA HEALTH CARE SYSTEM DATE 3/18/2022 Northbrook, IL 60062 SHEET 121 OF 279 T: 847.952.9362 Checked MH-01-424 www. bancroft-ae.com Bancroft Project No: 18-121 BANCROFT ARCHITECTS + ENGINEERS **ISSUE FOR BID** U.S. Department of Veterans Affairs 03-18-22 3/18/2022 DG вх Revisions:





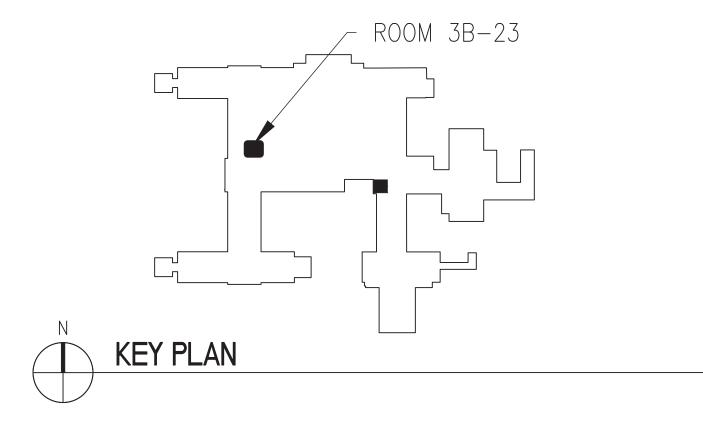


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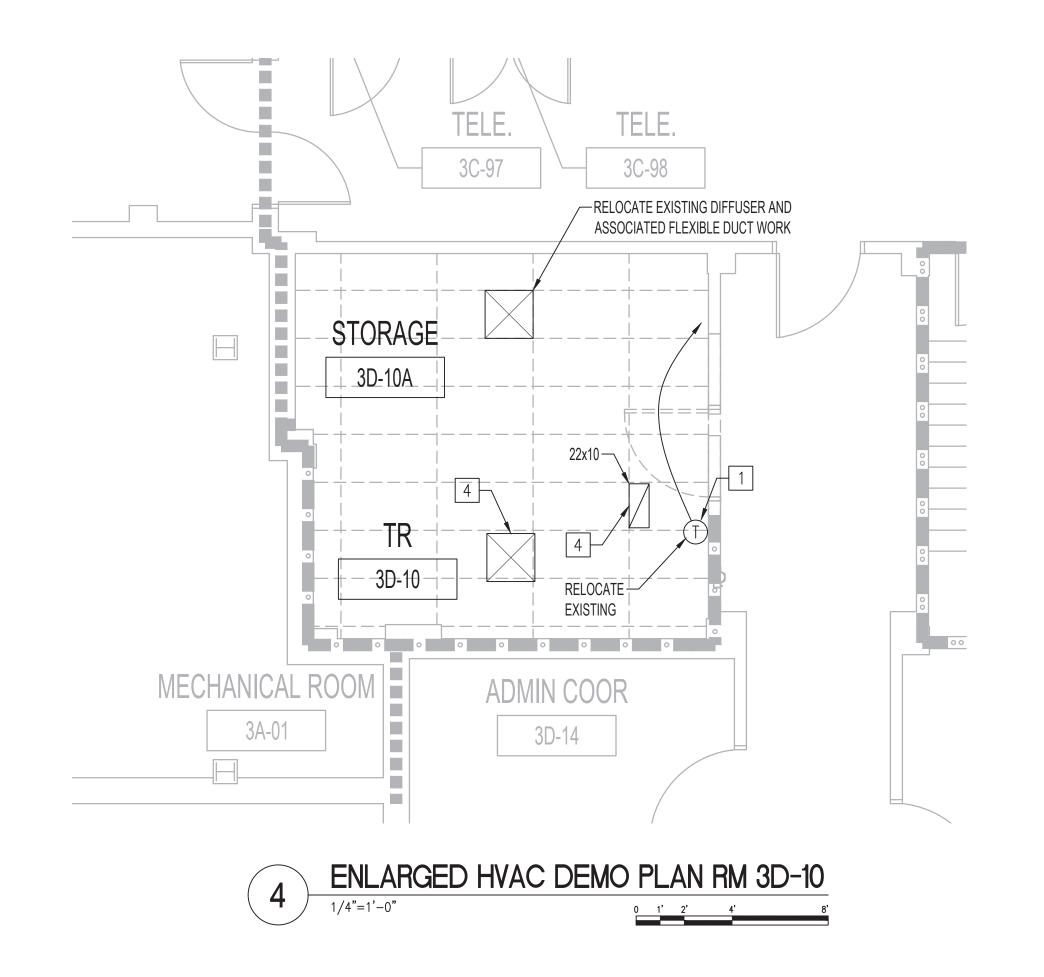
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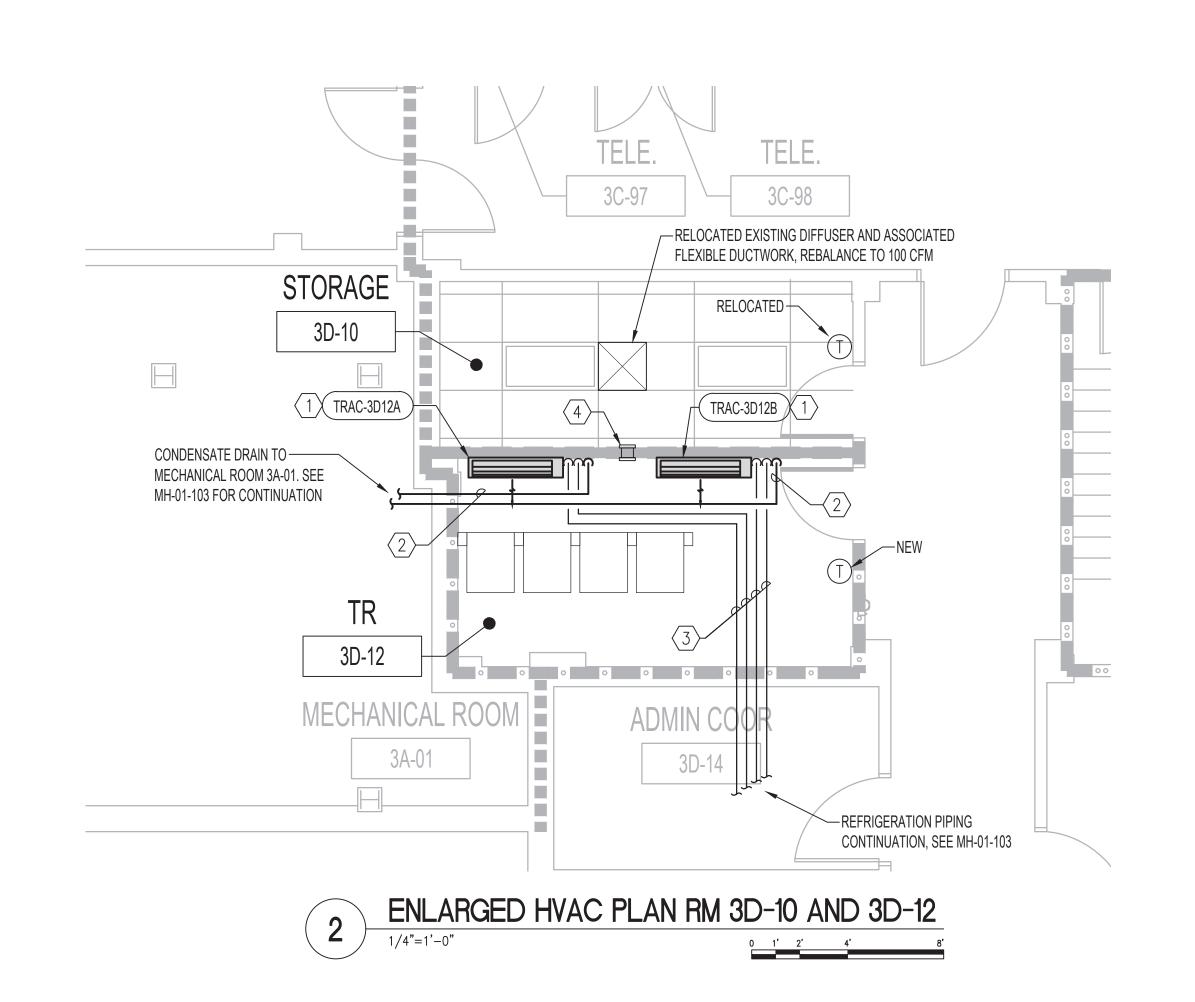
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			PROFESSION PROFESSION RAED HAMID		ENLARGED PLANS - THIRD FLOOR		UPGRADES	Building Number 01, 09, 46
		3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362	PE-28170 GI NATE 3/18/2022	Management	SHEET 123 OF 279		Location FARGO VA HEALTH CARE SYSTEM	Drawing Number
ISSUE FOR BID 03-18-22 Revisions: Date:		BANCROFT ARCHITECTS + ENGINEERS www. bancroft-ae.com Bancroft Project No: 18-121	Pago Hamo	U.S. Department of Veterans Affairs			Issue Date Checked Drawn BX	MH-01-431



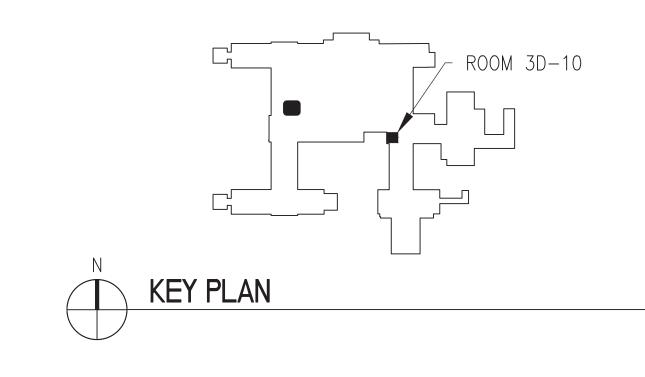


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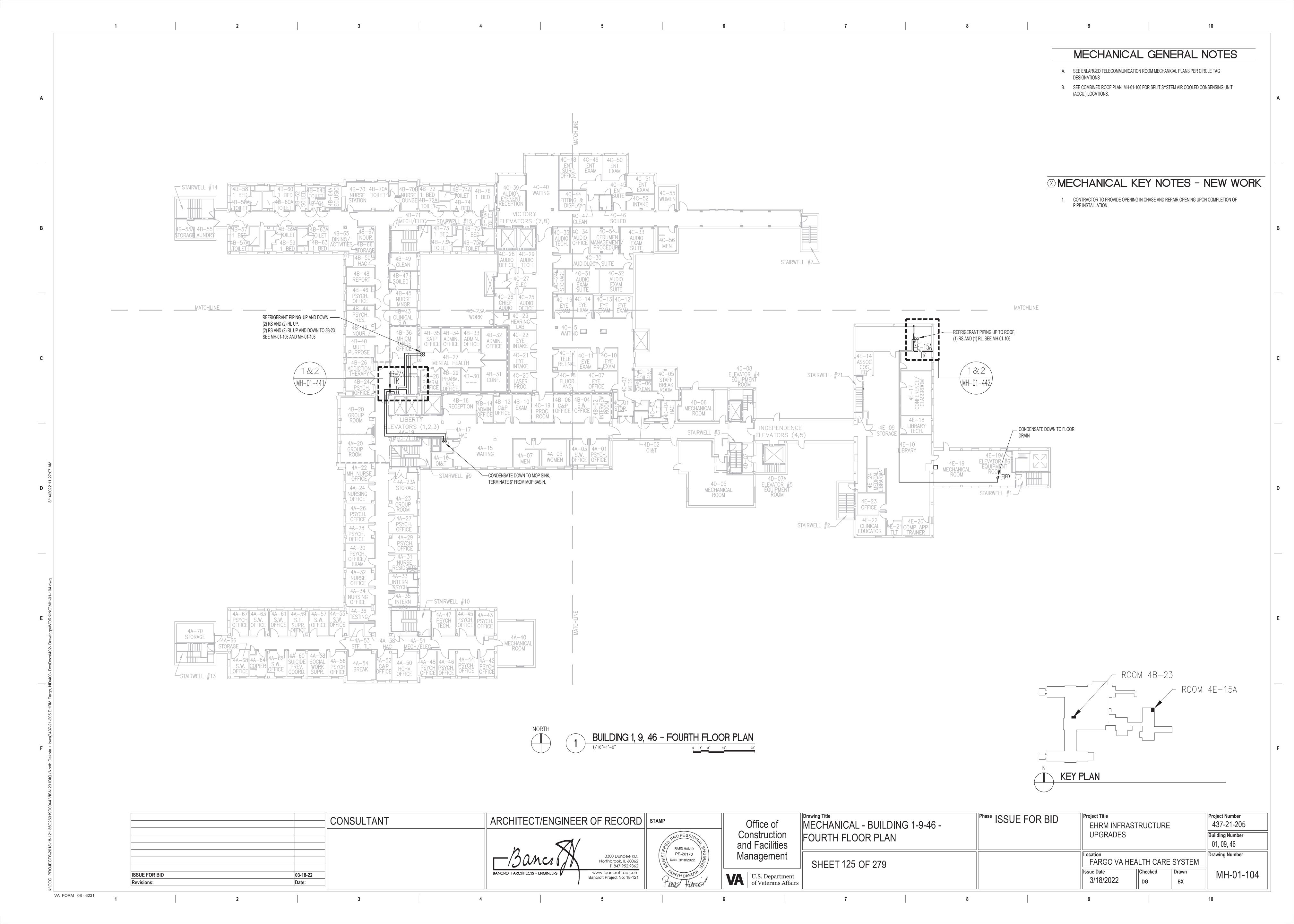
MECHANICAL KEY NOTES - NEW WORK

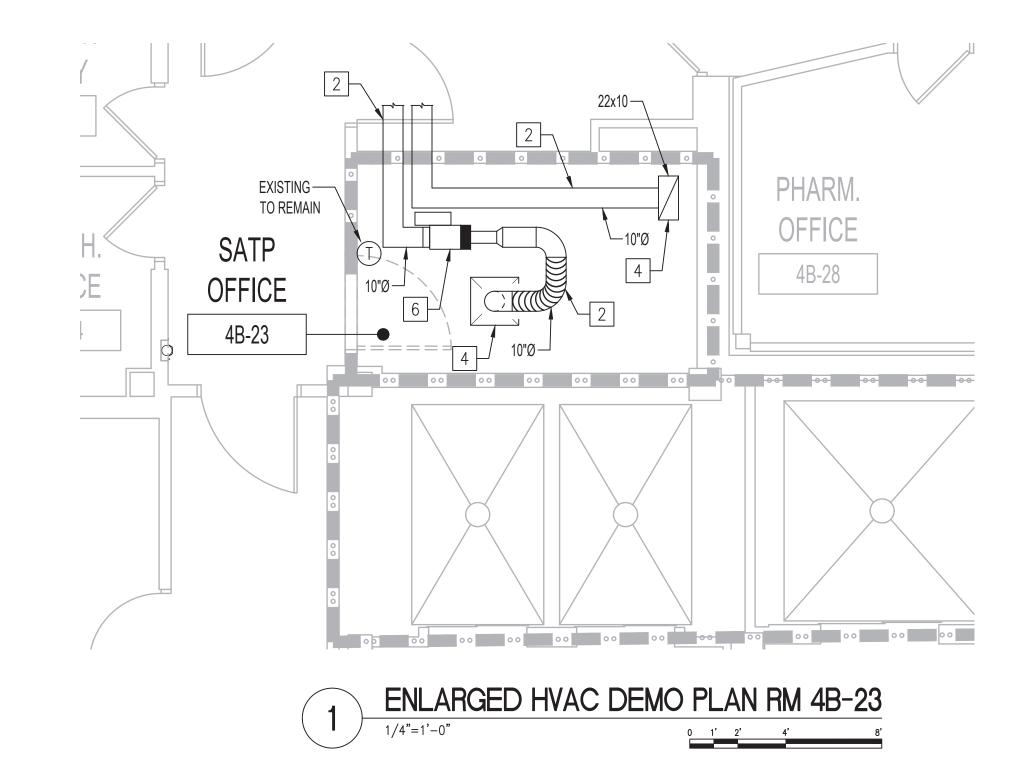
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- 4. INSTALL NEW 8x6" TRANSFER GRILLES ON BOTH SIDES OF WALL. TITUS 350 RL WITH FLANGED FRAME COLOR WHITE, OR VA APPROVED EQUAL.

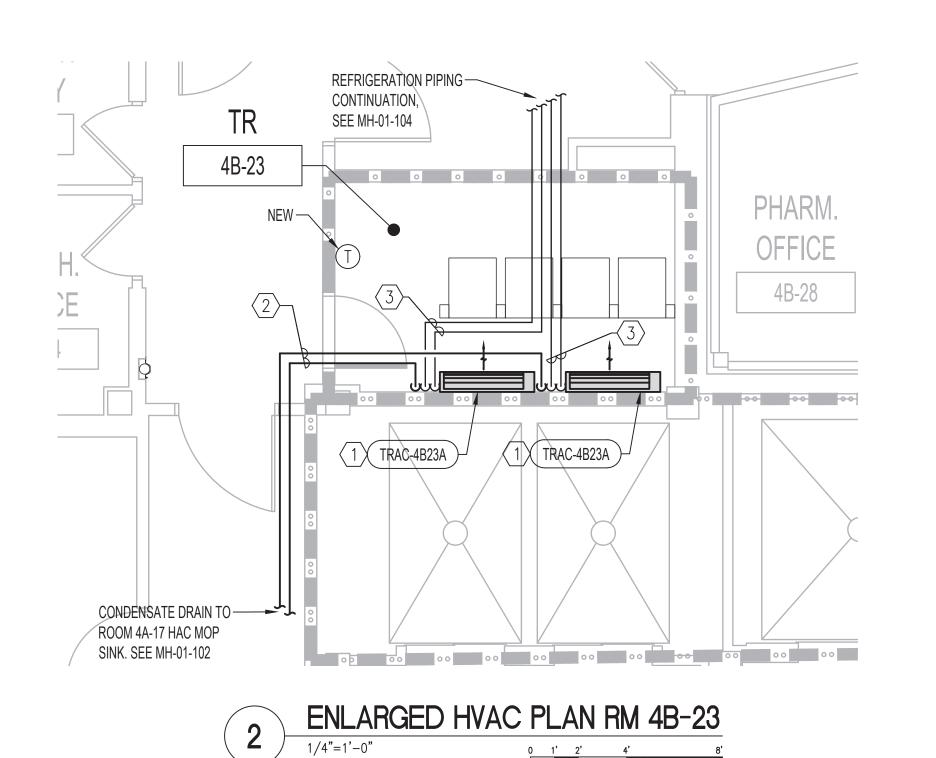
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18/18-121 3				PROFESSION		ENLARGED PLANS - THIRD FLOOR		UPGRADES		Building Number 01, 09, 46
JECTS\20			3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362	PE-28170 ODATE 3/18/2022 PATE 3/18/2022	Management			Location FARGO VA HE	EALTH CARE SYSTEM	Drawing Number
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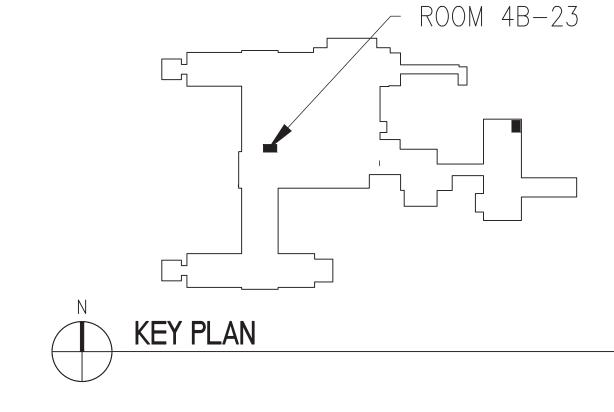


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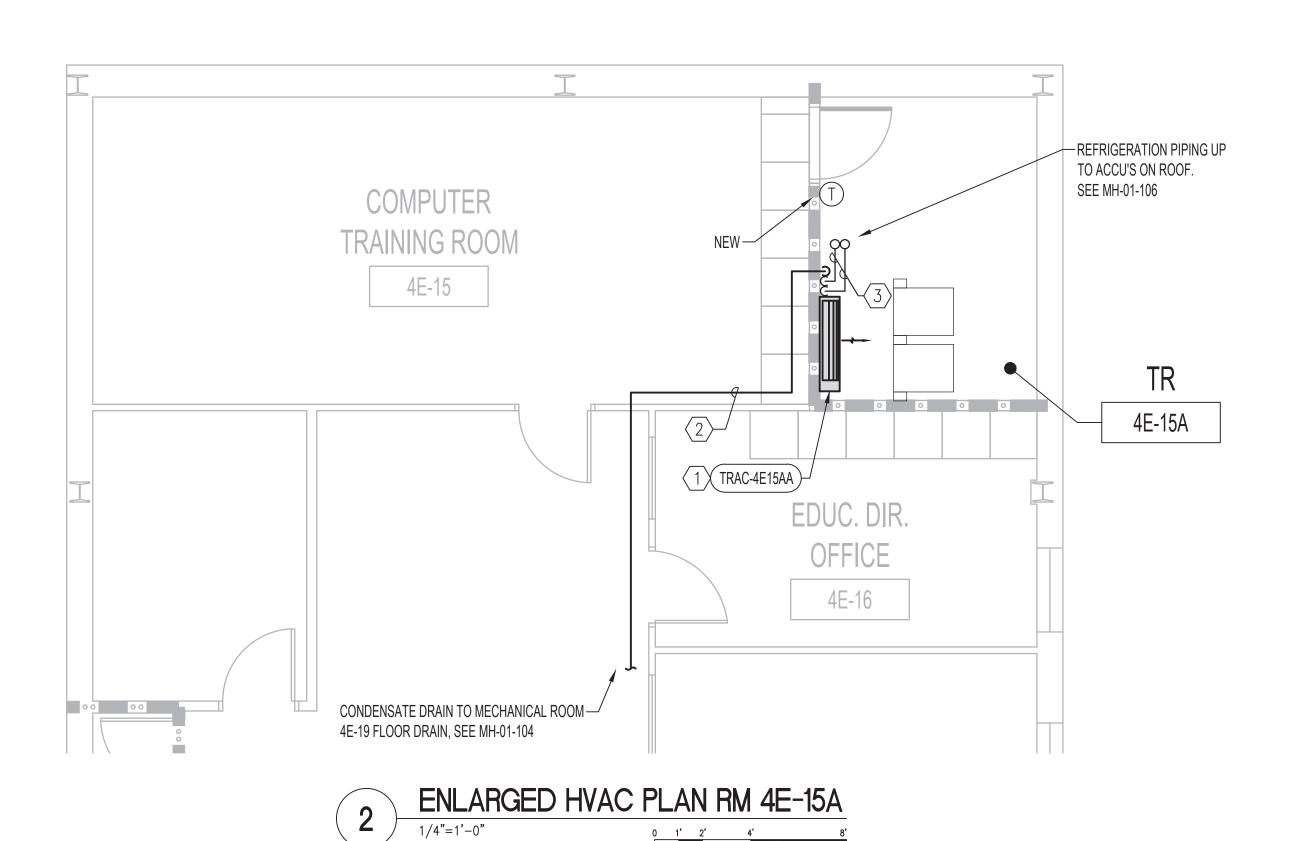
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018/18-121				RAED HAMID	Construction and Facilities	ENLARGED PLANS - FOURTH FLOOR		UPGRADES	Building Number 01, 09, 46
DJEC1 SKL			3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362	PE-28170 DATE 3/18/2022	Management	SHEET 126 OF 279		Location FARGO VA HEALTH CARE S	YSTEM Drawing Number
ISSUE FOR BID Revisions:	03-18-22 Date:		BANCROFT ARCHITECTS + ENGINEERS www. bancroft-ae.com Bancroft Project No: 18-121	Page Hame	U.S. Department of Veterans Affairs			Issue Date Checked DG	MH-01-441

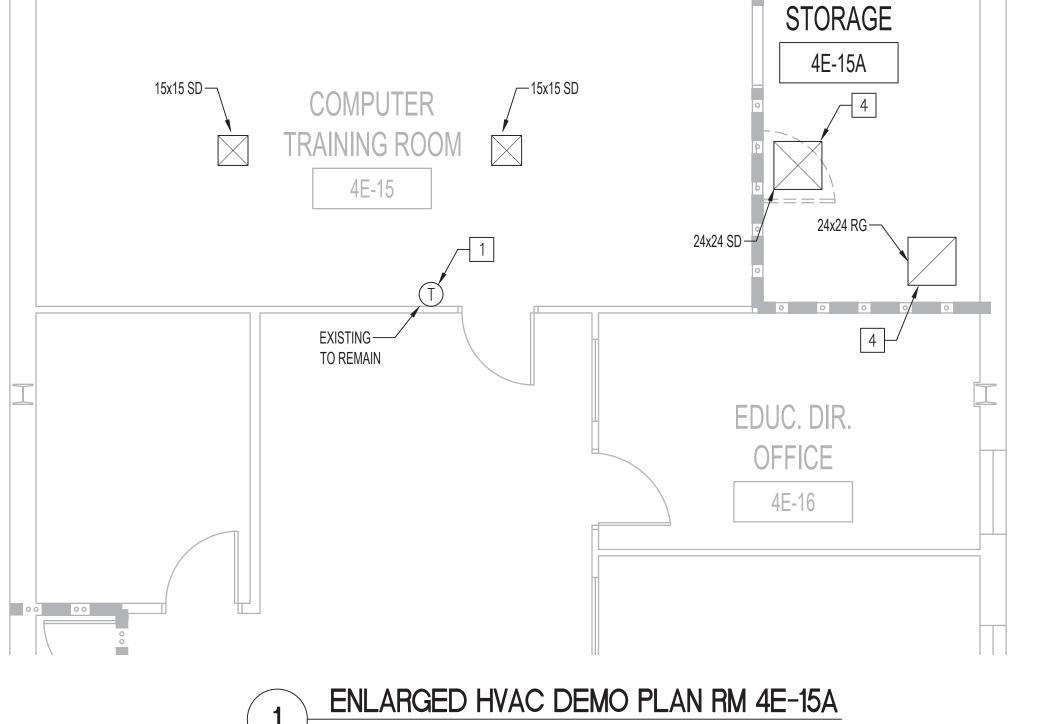
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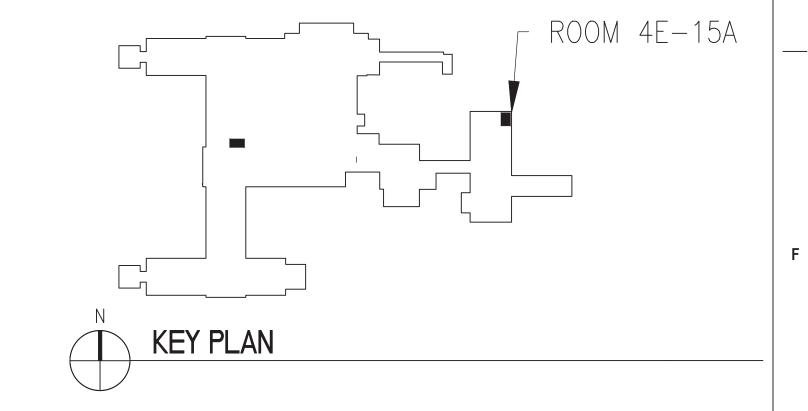
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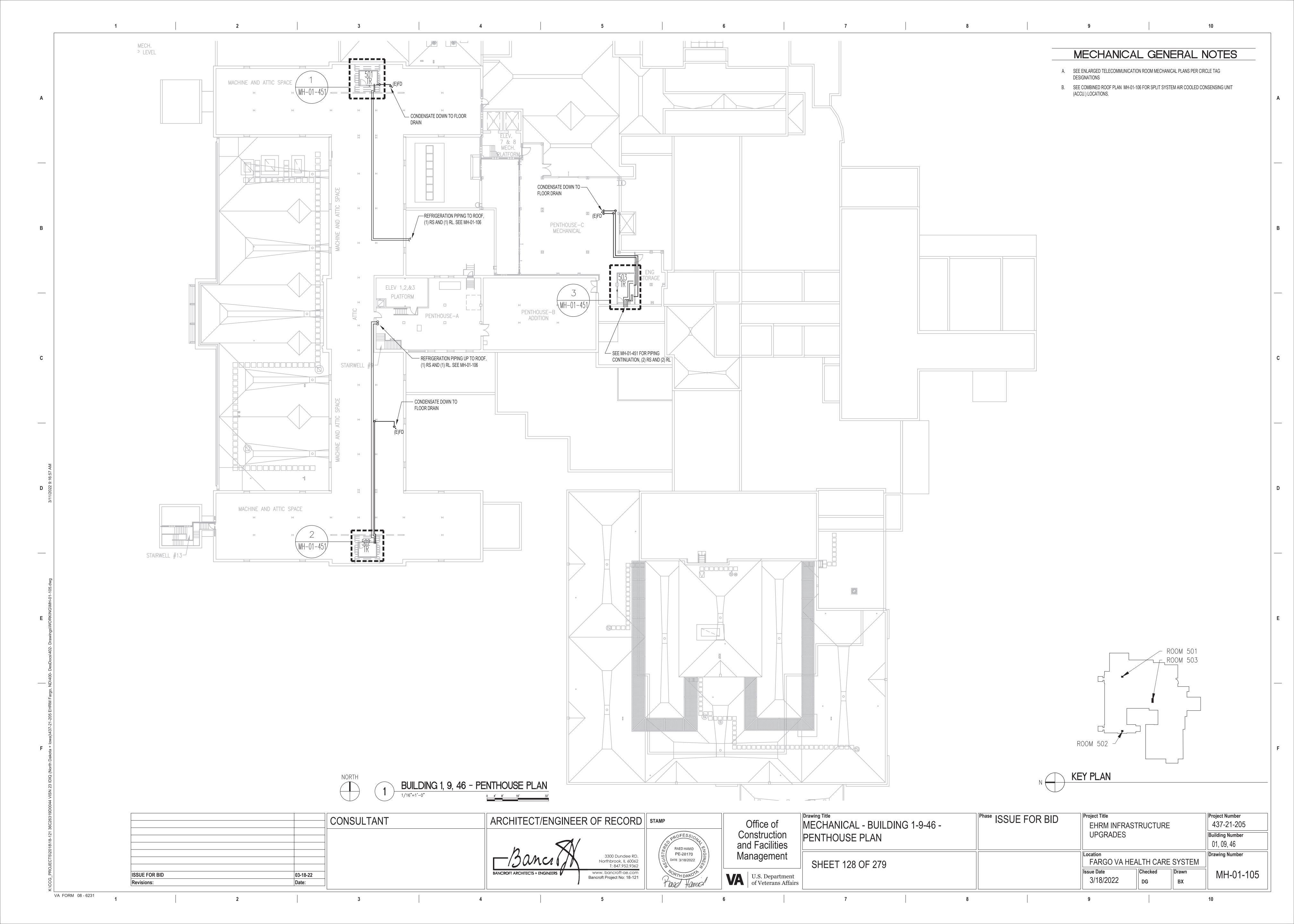
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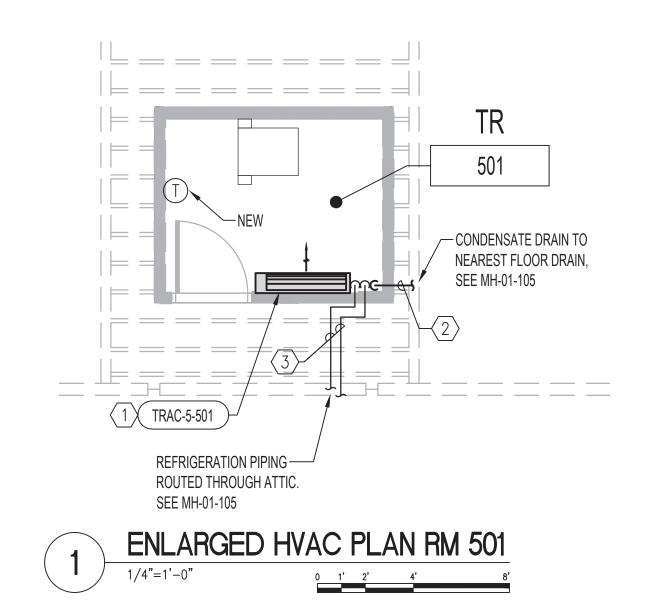


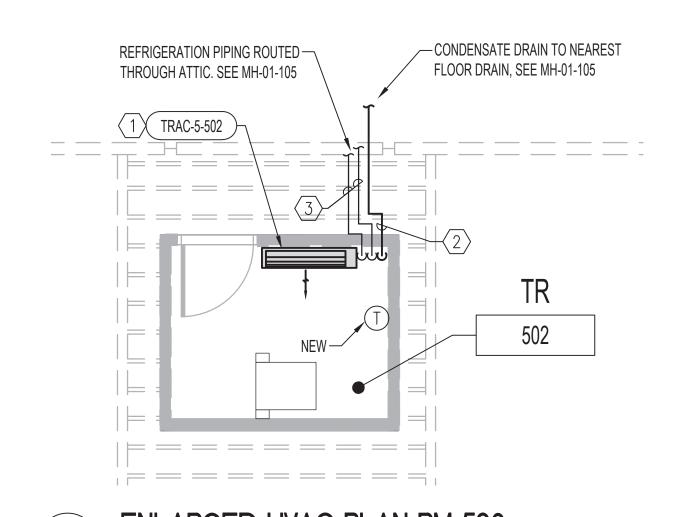


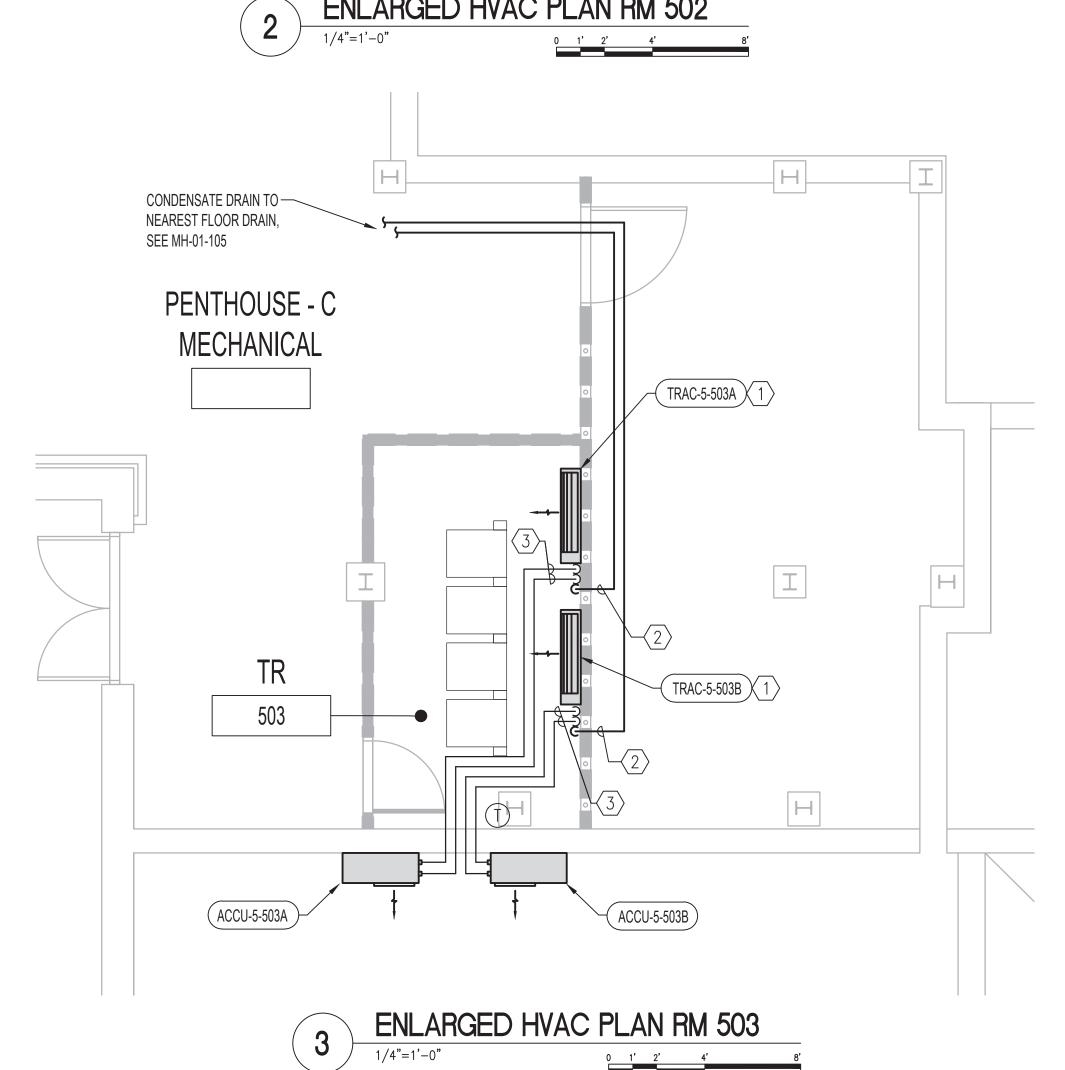


	CONSULTANT	ARCHITECT/ENGINEER OF RECORD STAMP	Office of	Drawing Title MECHANICAL - BUILDING 1-9-46 -	Phase ISSUE FOR BID	Project Title EHRM INFRASTRUCTURE	Project Number 437-21-205
			Construction and Facilities	ENLARGED PLANS - FOURTH FLOOR		UPGRADES	Building Number 01, 09, 46
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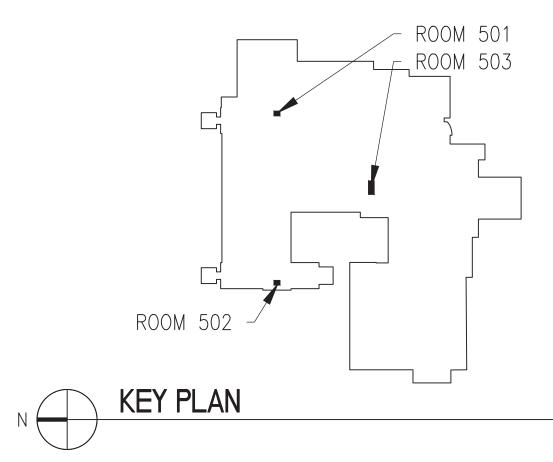
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- 5. EXISTING SPLIT SYSTEM DX CASSETTE OR VRF FAN COIL TERMINALS, RELATED CONTROLS AND DRAIN PIPING SHALL REMAIN AS BACK UP SYSTEMS FOR NEW DEDICATED HEAT REMOVAL AND COOLING IN NEW WORK SCOPE.
- EXISTING VAV BOX AND RELATED PIPING, DUCTWORK, AIR DEVICES AND THERMOSTATS TO REMAIN AS BACK UP SYSTEMS FOR NEW DEDICATED HEAT REMOVAL AND COOLING IN NEW
- 7. EXISTING EXHAUST FAN, DUCTWORK, THERMOSTATS AND RELATED TEMP CONTROLS TO REMAIN AS BACK UP SYSTEM FOR NEW DEDICATED HEAT REMOVAL AND COOLING IN NEW WORK SCOPE.



Drawing Title
MECHANICAL - BUILDING 1-9-46 -Project Title Project Number Phase ISSUE FOR BID 437-21-205 EHRM INFRASTRUCTURE **UPGRADES Building Number** ENLARGED PLANS - PENTHOUSE 01, 09, 46 Drawing Number FARGO VA HEALTH CARE SYSTEM SHEET 129 OF 279 Checked MH-01-451 3/18/2022 DG ВХ

CONSULTANT **ISSUE FOR BID** 03-18-22 Date: Revisions:

VA FORM 08 - 6231

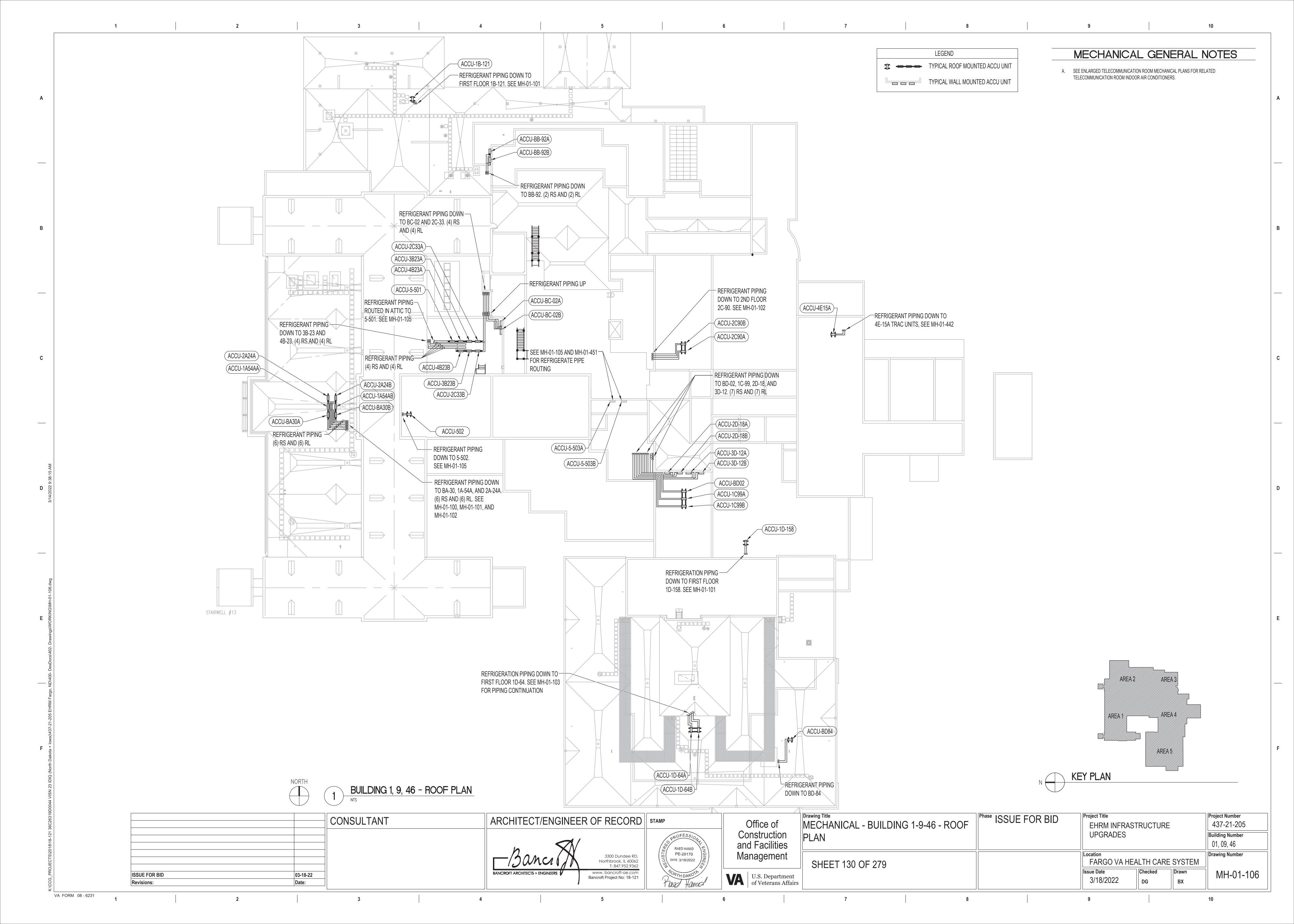
ARCHITECT/ENGINEER OF RECORD | STAMP 3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362 www. bancroft-ae.com Bancroft Project No: 18-121 BANCROFT ARCHITECTS + ENGINEERS

RAED HAMID PE-28170 DATE 3/18/2022

Construction and Facilities Management

Office of

U.S. Department of Veterans Affairs



- A. INSTALLING HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING HVAC EQUIPMENT SYSTEM COMPONENTS AND CONTROLS TO BE USED AS BACK UP FOR NEW SPLIT SYSTEM AIR CONDITIONING FROM DAMAGE WITHIN NEW TR SPACE. EXISTING SHALL REMAIN OPERATIONAL UPON COMPLETION OF CONTRACT.
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MECHANICAL KEY NOTES - NEW WORK

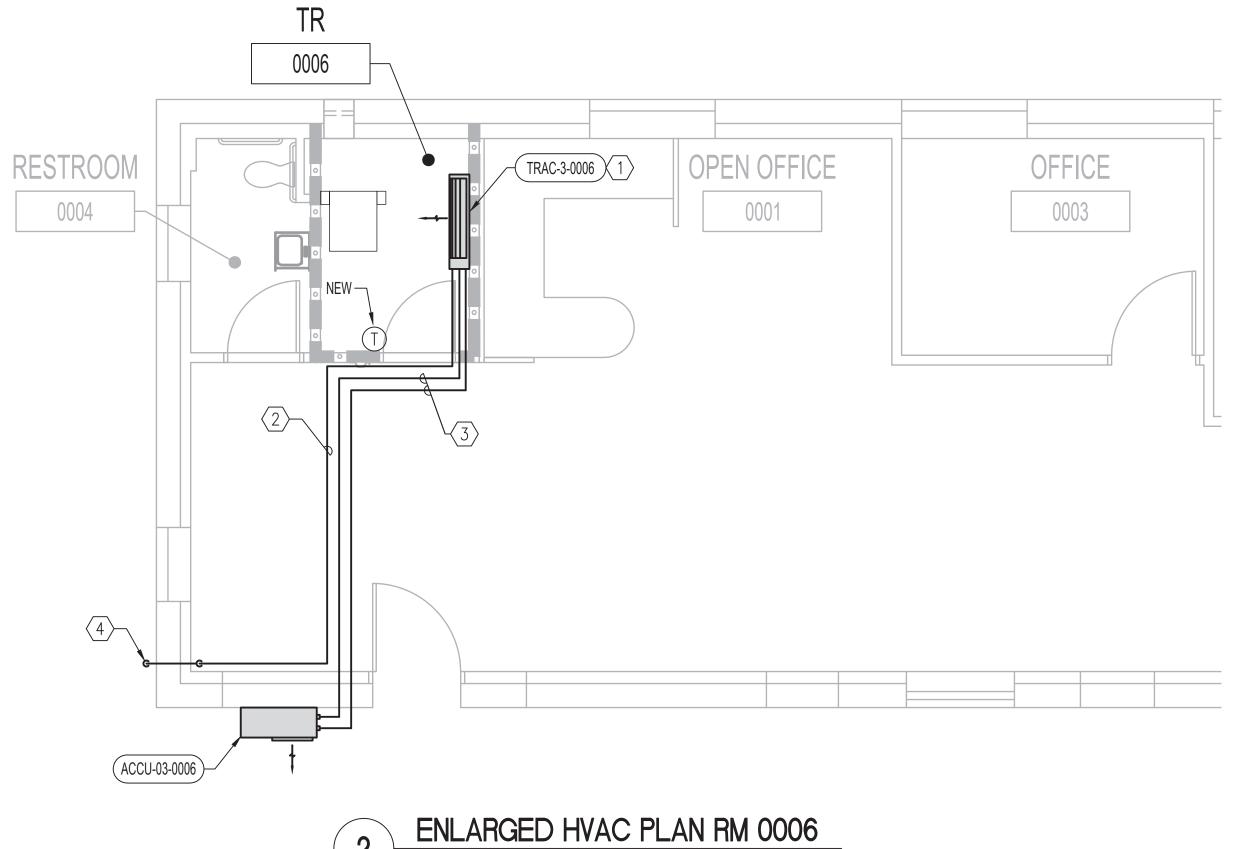
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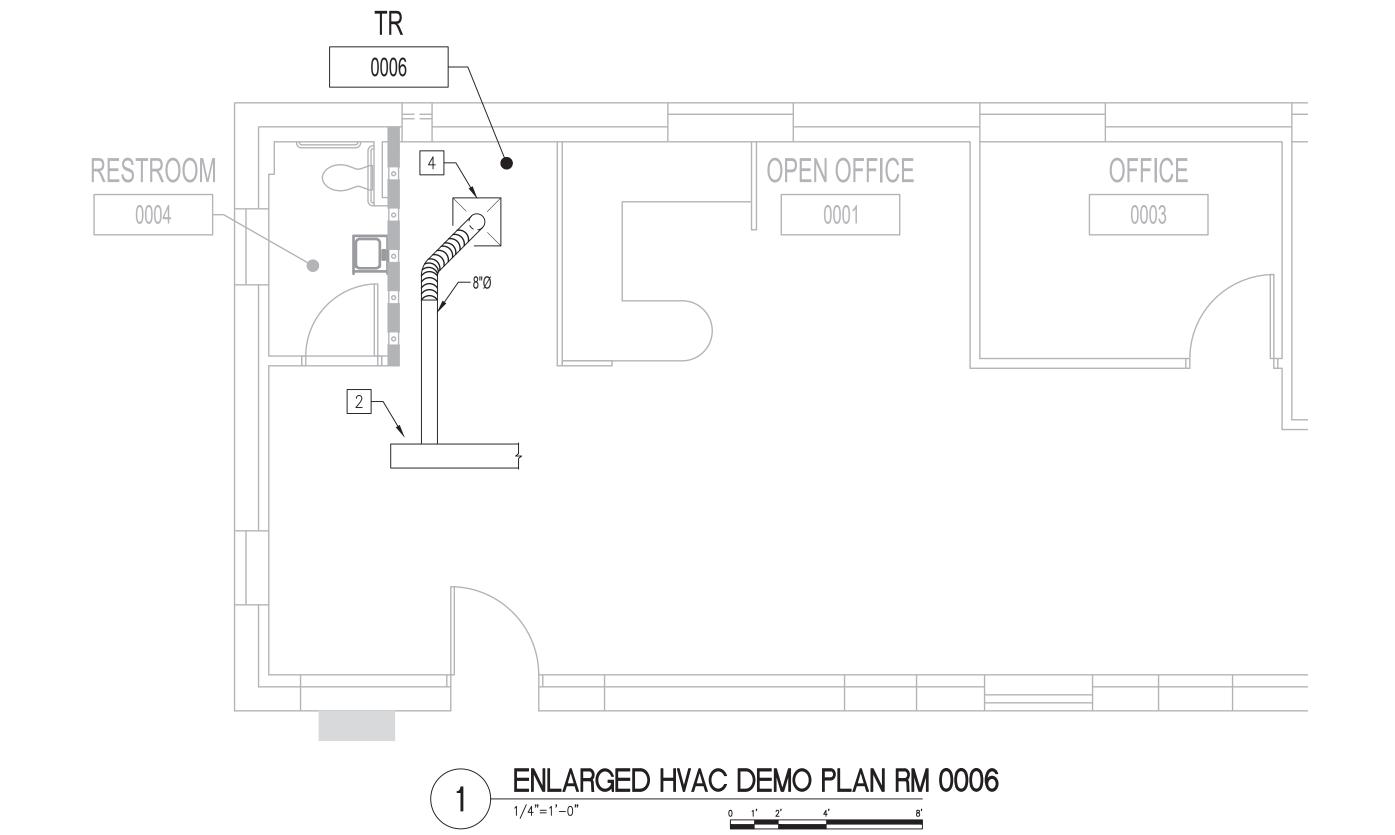
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- 1. EXISTING THERMOSTATS AND CONTROL WIRING TO REMAIN AND ARE TO BE ADJUSTED 10 DEGREES ABOVE NEW AC EQUIPMENT SETPOINTS
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Drawing Number

MH-03-101





VA FORM 08 - 6231

	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of	Drawing Title MECHAICAL - BUILDING 3 - ENLARGED	Phase ISSUE FOR BID	Project Title EHRM INFRAST	TRUCTURE	
		√ /	PROFESSION RAED HAMID	Construction and Facilities	PLAN		UPGRADES		
		3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362	PE-28170 DATE 3/18/2022	Management	SHEET 131 OF 279		Location FARGO VA HEA		
ISSUE FOR BID 03-18-22 Revisions: Date:		BANCROFT ARCHITECTS + ENGINEERS / www. bancroft-ae.com Bancroft Project No: 18-121	Page Hame	U.S. Department of Veterans Affairs			3/18/2022	Checked DG	Drawn BX

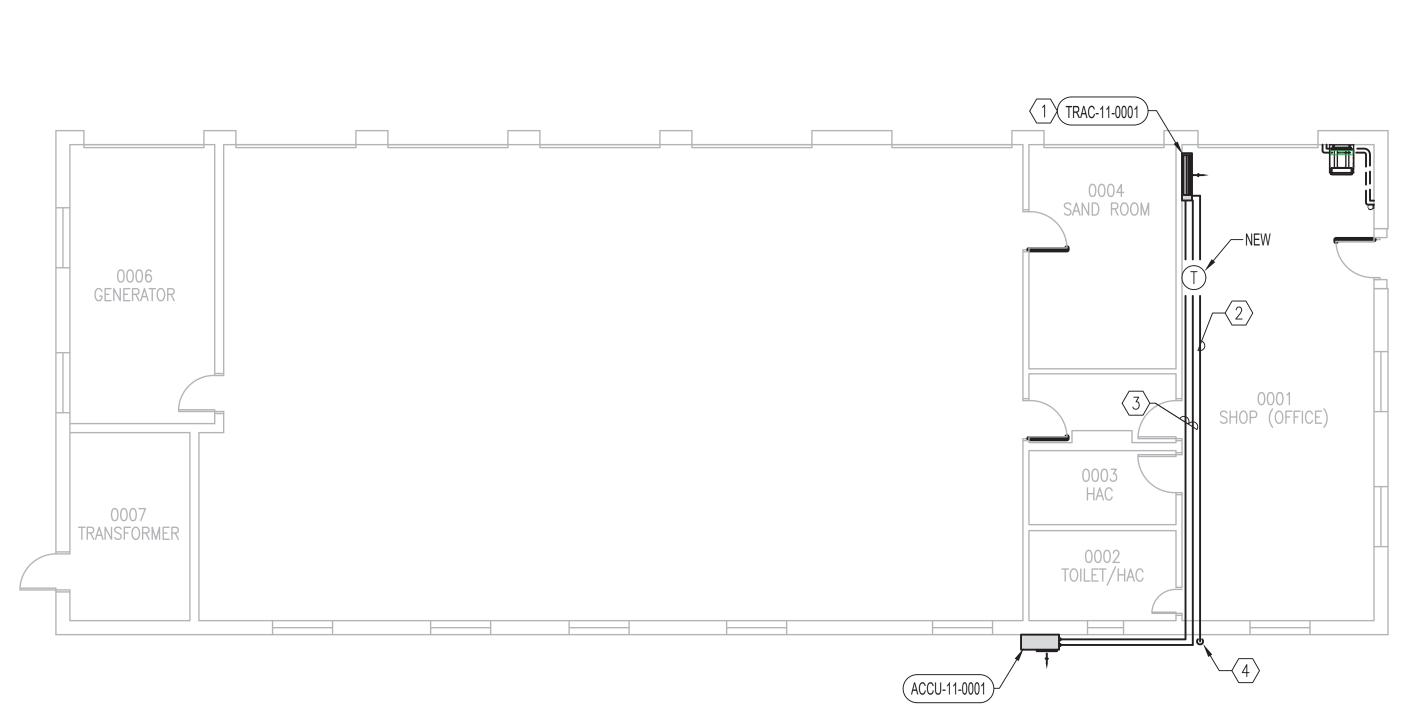
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1 ENLARGED HVAC DEMO PLAN RM 0001

1/8"=1'-0"

0 2' 4' 8' 16'

0006

0007

TRANSFORMER

VA FORM 08 - 6231

0004

/—SPLIT DX

SHOP (OFFICE)

SAND ROOM

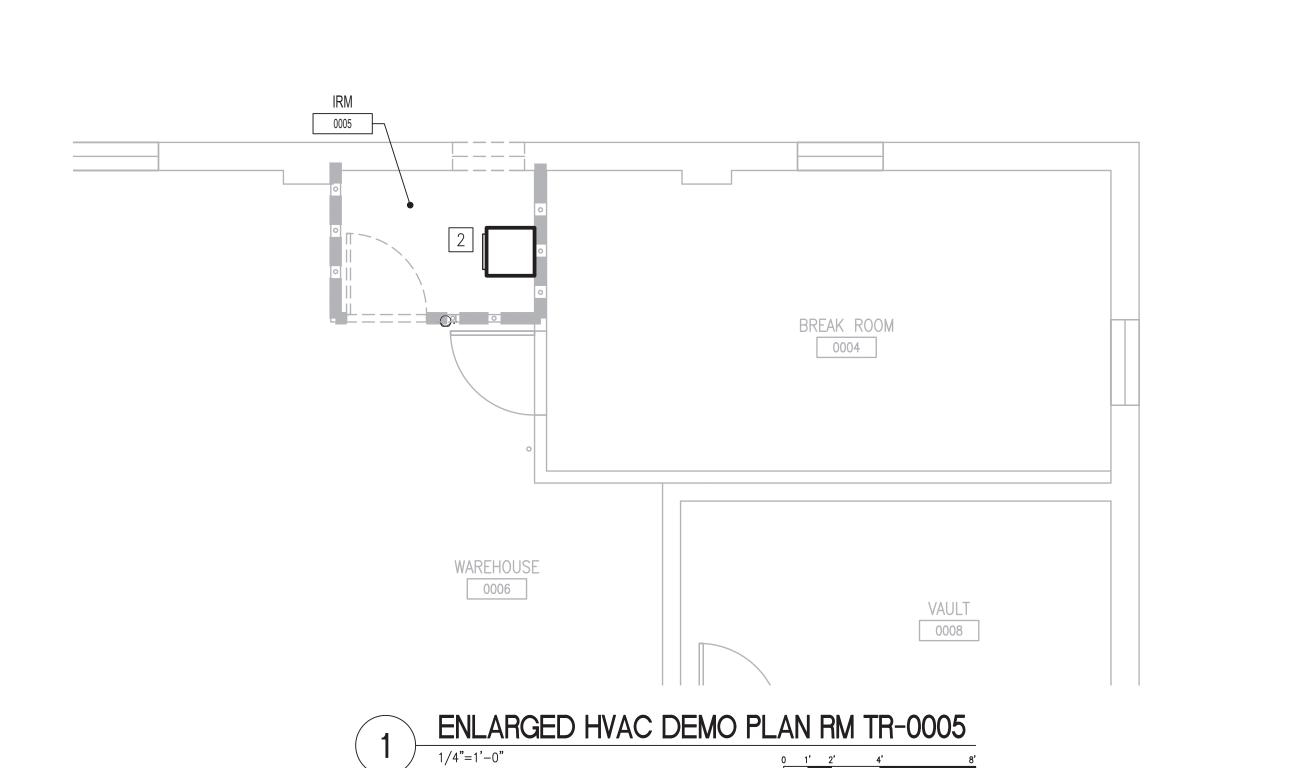
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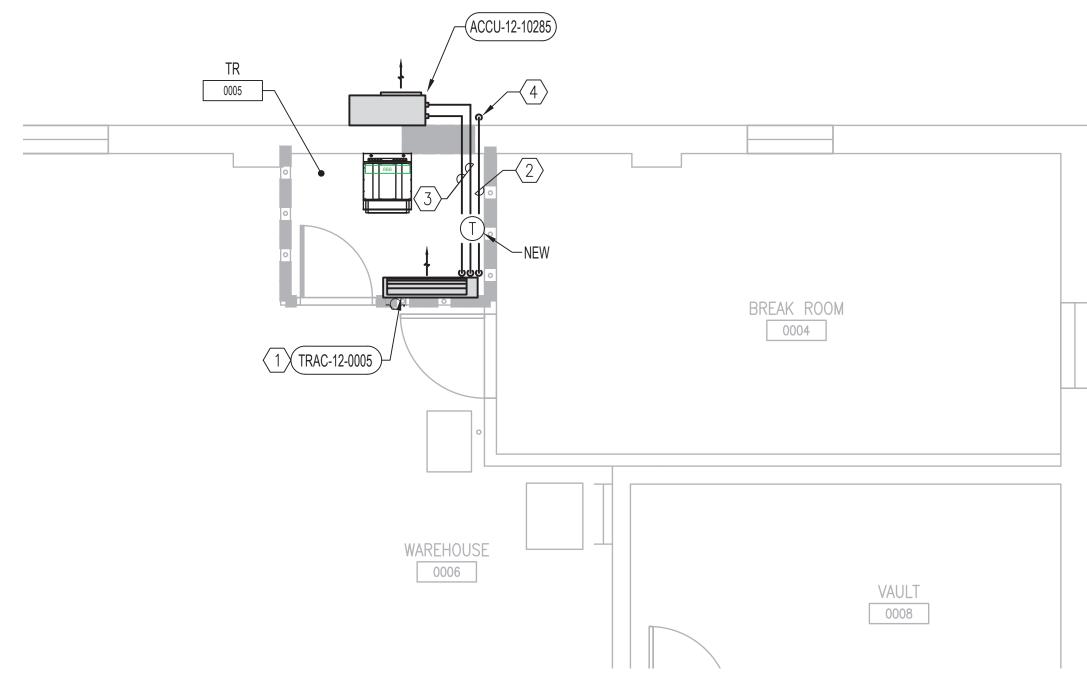
1 ENLARGED HVAC PLAN RM 0001

1/8"=1'-0"

0 2' 4' 8' 16'

Project Title Project Number Phase ISSUE FOR BID ARCHITECT/ENGINEER OF RECORD | STAMP CONSULTANT Office of MECHANICAL - BUILDING 11 - FIRST 437-21-205 EHRM INFRASTRUCTURE Construction and Facilities **UPGRADES** Building Number FLOOR PLAN RAED HAMID Drawing Number PE-28170 Management 3300 Dundee RD. FARGO VA HEALTH CARE SYSTEM Northbrook, IL 60062 DATE 3/18/2022 SHEET 132 OF 279 T: 847.952.9362 Checked Drawn MH-11-101 BANCROFT ARCHITECTS + ENGINEERS www. bancroft-ae.com U.S. Department of Veterans Affairs **ISSUE FOR BID** 03-18-22 Bancroft Project No: 18-121 3/18/2022 WG ВХ Date: Revisions:





2 ENLARGED HVAC PLAN RM TR-0005 1/4"=1'-0" 2 4' 8'

MECHANICAL GENERAL NOTES

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	O3-18-22	ARCHITECT/ENGINEER OF RECORD STAMP	Office of	Drawing Title MECHANICAL - BUILDING 12 -	Phase ISSUE FOR BID	Project Title EHRM INFRASTRUCTURE	Project Number 437-21-205
		PROFESSION RAED HAMID	Construction and Facilities Management	ENLARGED PLAN - FIRST FLOOR		UPGRADES	Building Number
		3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362		SHEET 133 OF 279		Location FARGO VA HEALTH CARE SYSTE	Drawing Number
ISSUE FOR BID Revisions:	03-18-22 Date:	BANCROFT ARCHITECTS + ENGINEERS www. bancroft-ae.com Bancroft Project No: 18-121	U.S. Department of Veterans Affair			Issue Date Checked DG Drawn	MH-12-401

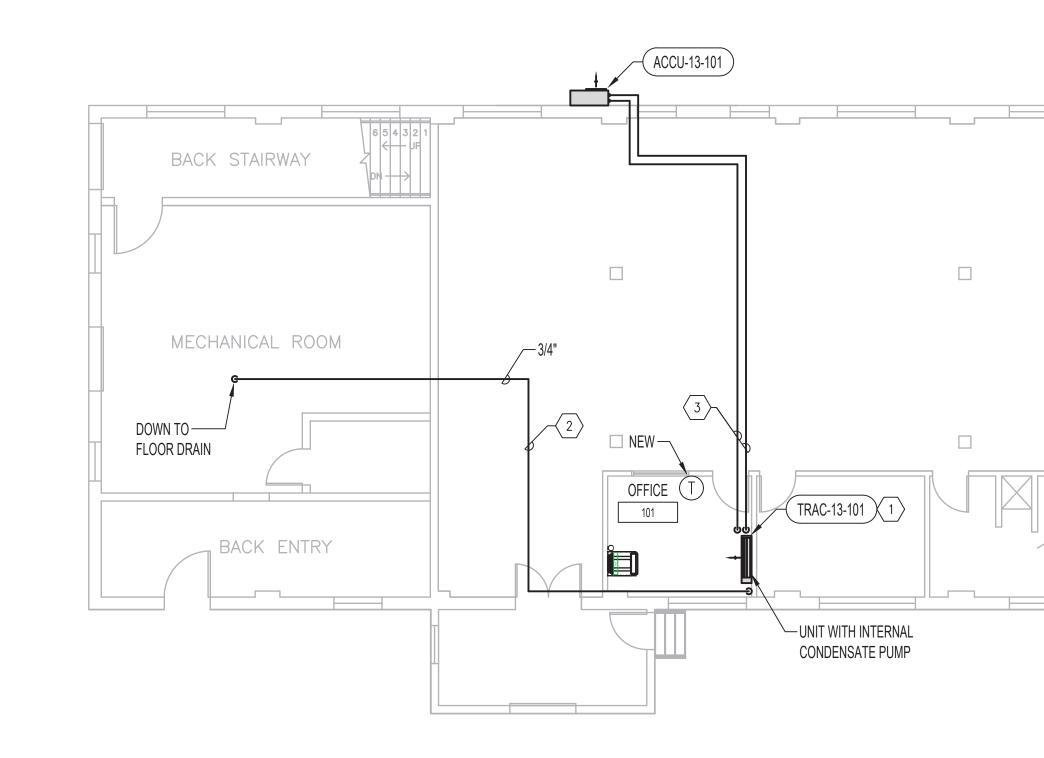
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1 ENLARGED HVAC DEMO PLAN RM OFFICE-101

22x10 —

OFFICE

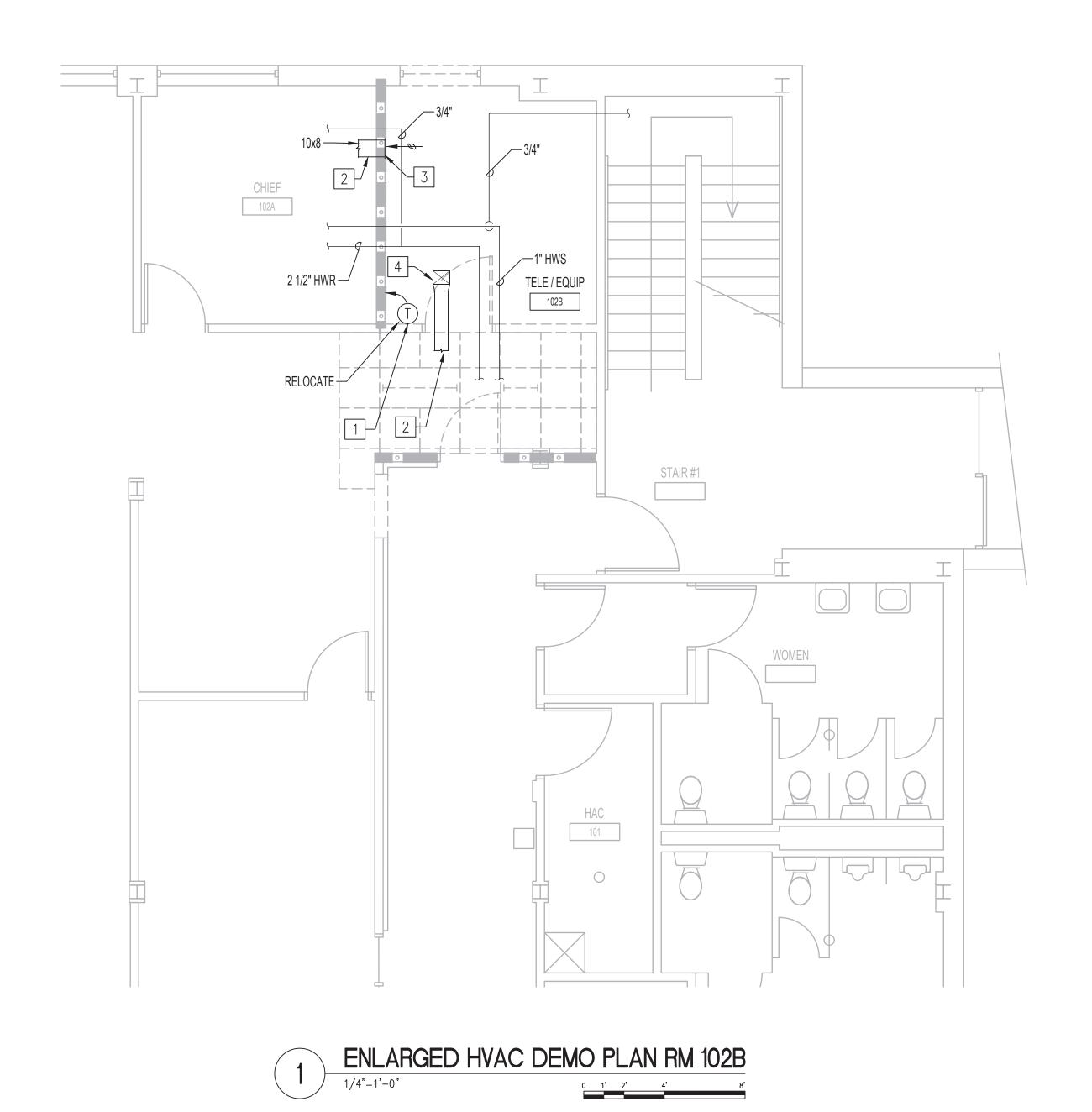
BACK STAIRWAY

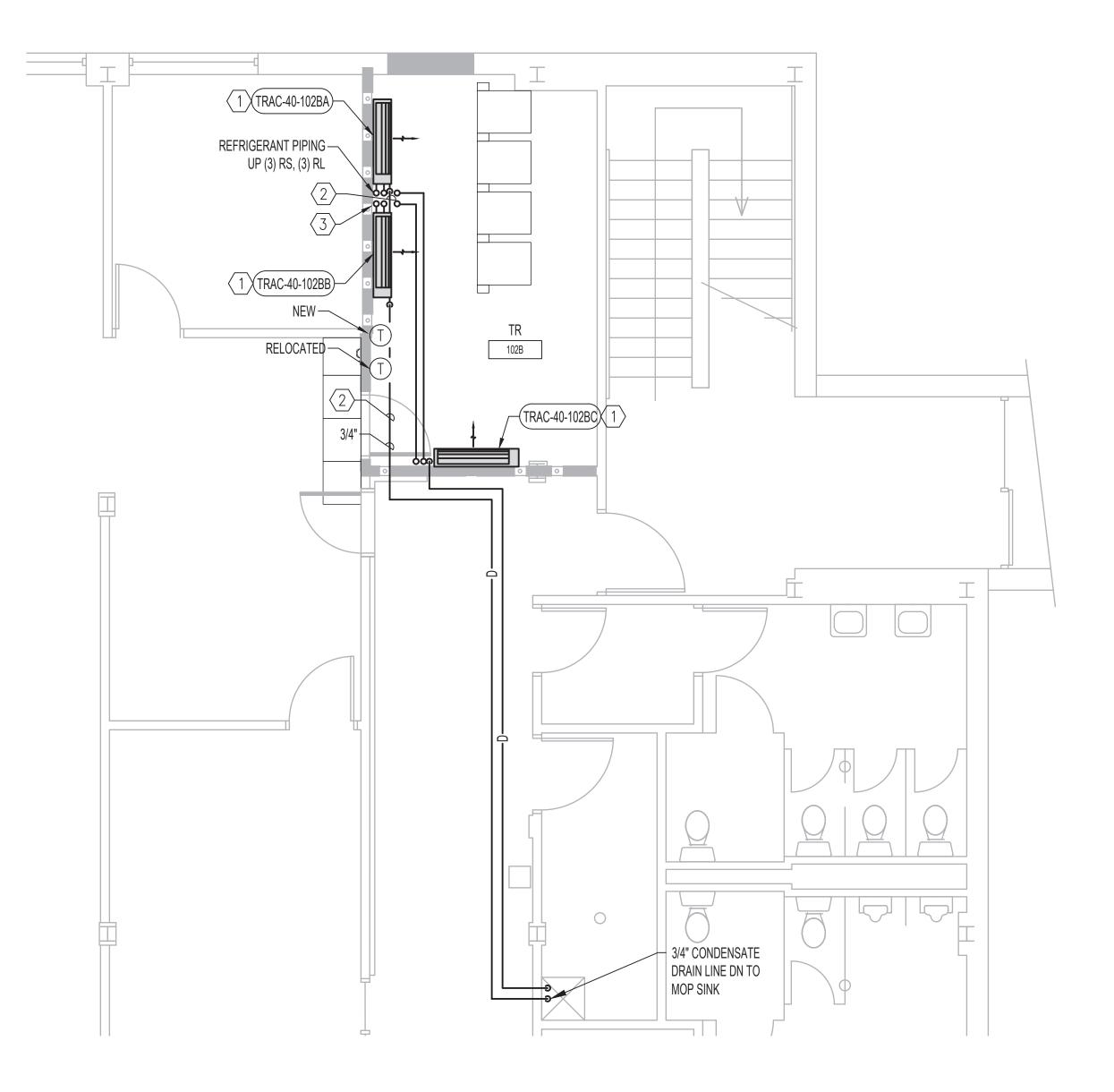
MECHANICAL ROOM

BACK ENTRY



	CONSULTANT	ARCHITECT/ENGINEER OF RECORD STAMP	Office of	Drawing Title MECHANICALL - BUILDING 13 - FIRST	Phase ISSUE FOR BID	Project Title EHRM INFRASTRUCTURE	Project Number 437-21-205
		PROFESSION RAED HAMID	Construction and Facilities	FLOOR PLAN		UPGRADES	Building Number
		3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362	Management	SHEET 134 OF 279		FARGO VA HEALTH CARE SYSTEM	Drawing Number
ISSUE FOR BID Revisions:	03-18-22 Date:	BANCROFT ARCHITECTS + ENGINEERS www. bancroft-ae.com Bancroft Project No: 18-121 www. bancroft-ae.com www.bancroft-ae.com www.bancroft-ae	U.S. Department of Veterans Affair	rs		Issue Date Checked Drawn 3/18/2022 WG BX	MH-13-101





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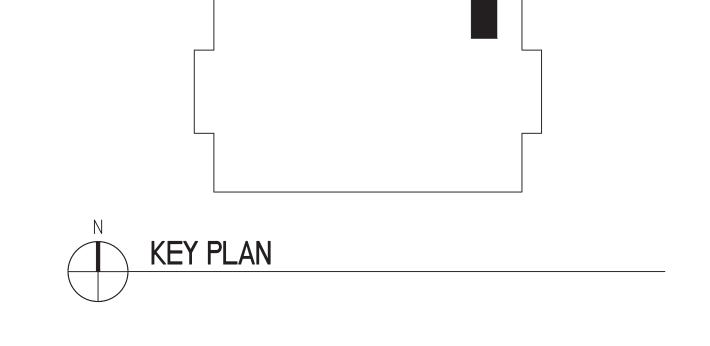
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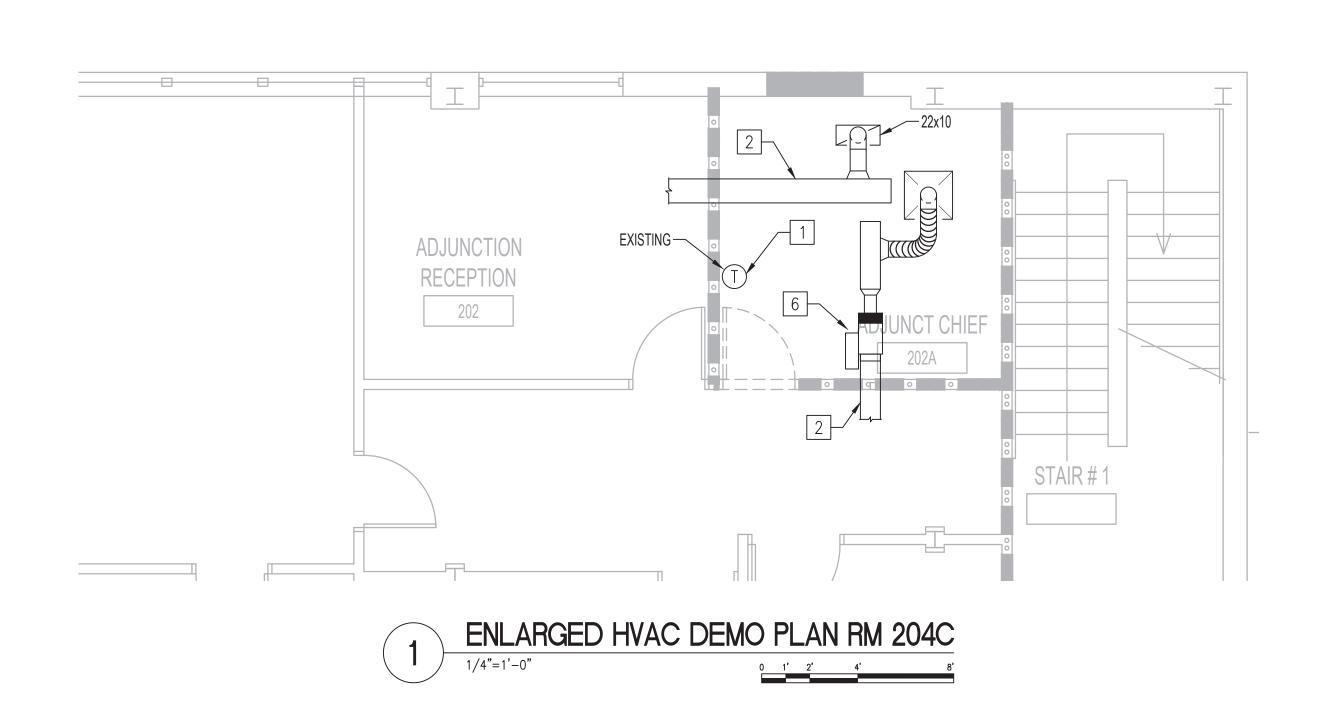
MECHANICAL KEY NOTES - DEMOLITION

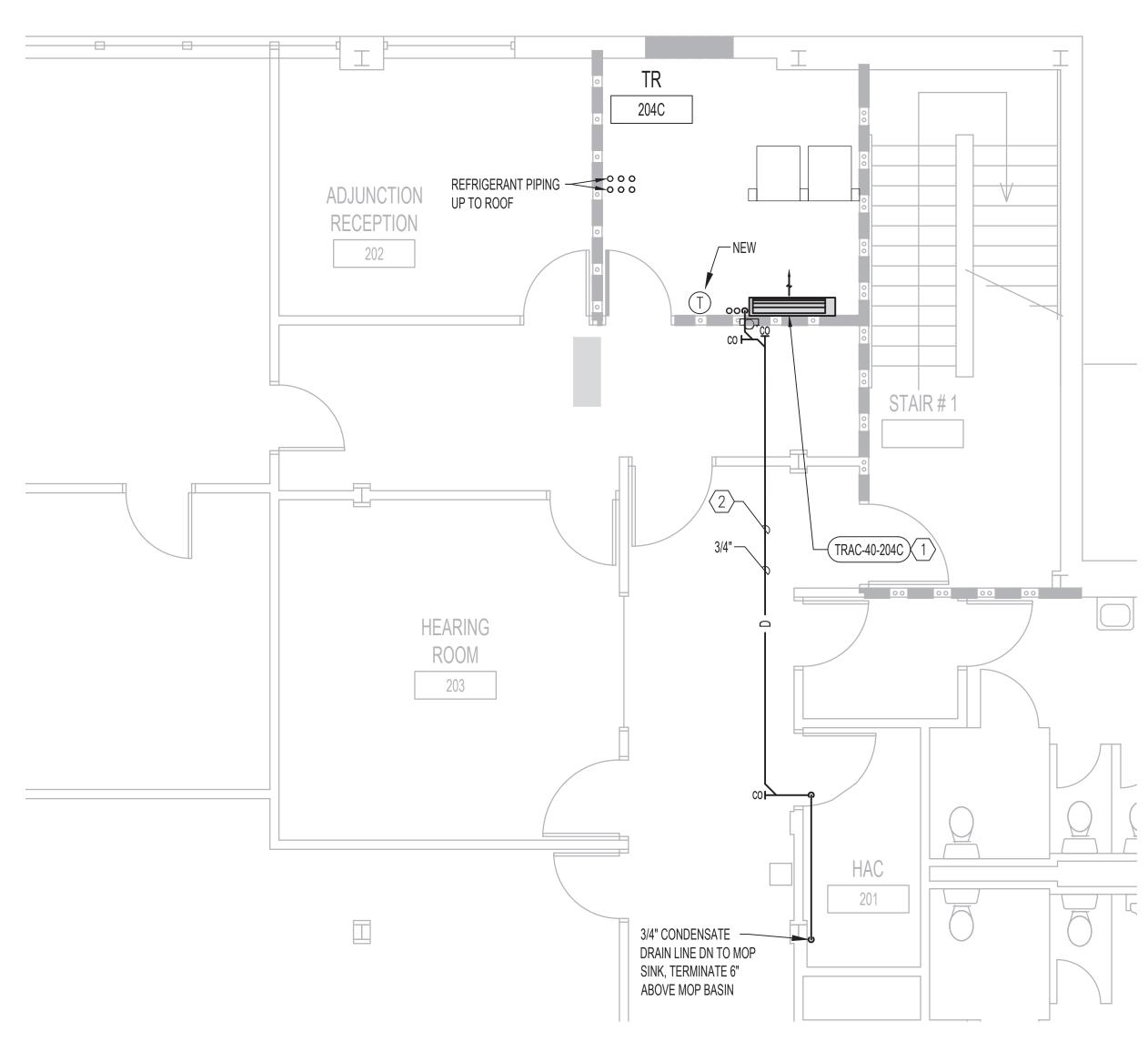
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2 ENLARGED HVAC PLAN RM 102E



	CONSULTANT	ARCHITECT/ENGINEER OF RECORD s	STAMP	Office of	Drawing Title MECHANICAL - BUILDING 40 -	Phase ISSUE FOR BID	Project Title EHRM INFRAST	TRUCTURE	Project Number 437-21-205
				Construction and Facilities	ENLARGED PLANS - FIRST FLOOR		UPGRADES		Building Number 40
		3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362	14/ 14-27/11/12	Management	SHEET 135 OF 279		Location FARGO VA HEA	ALTH CARE SYSTE	Drawing Number
ISSUE FOR BID Revisions:	03-18-22 Date:	BANCROFT ARCHITECTS + ENGINEERS / www. bancroft-ae.com Bancroft Project No: 18-121	Page Hamed	U.S. Department of Veterans Affairs			3/18/2022	Checked Drawn DG BX	MH-40-101

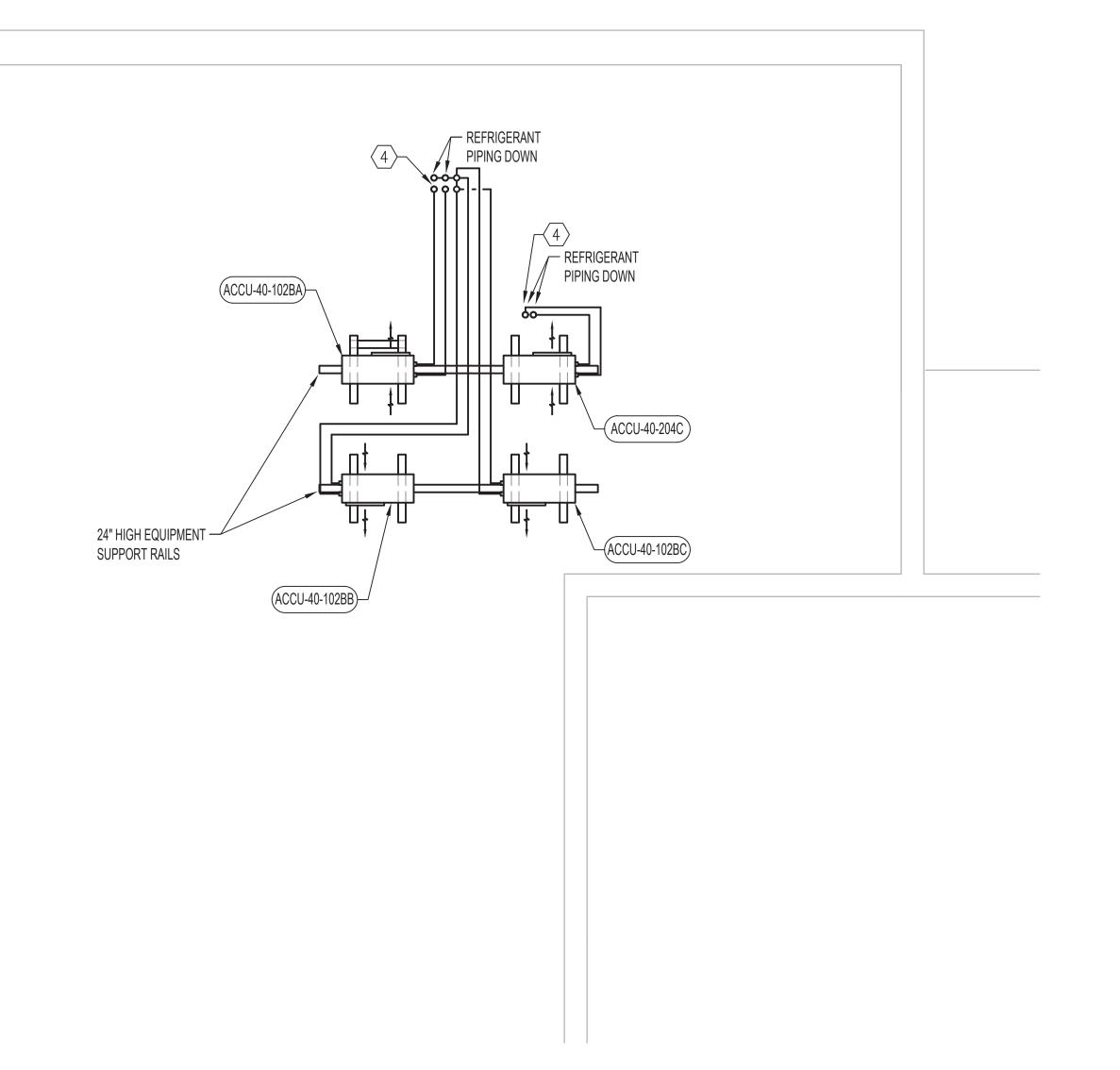






Revisions:

VA FORM 08 - 6231





ARCHITECT/ENGINEER OF RECORD | STAMP CONSULTANT RAED HAMID PE-28170 3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362 DATE 3/18/2022 www. bancroft-ae.com Bancroft Project No: 18-121 BANCROFT ARCHITECTS + ENGINEERS **ISSUE FOR BID** 03-18-22

Office of

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

Drawing Title
MECHANICAL - BUILDING 40 -Project Title Project Number Phase ISSUE FOR BID 437-21-205 EHRM INFRASTRUCTURE **UPGRADES Building Number** ENLARGED PLANS - SECOND FLOOR Drawing Number FARGO VA HEALTH CARE SYSTEM SHEET 136 OF 279 MH-40-102 3/18/2022 DG ВХ

KEY PLAN

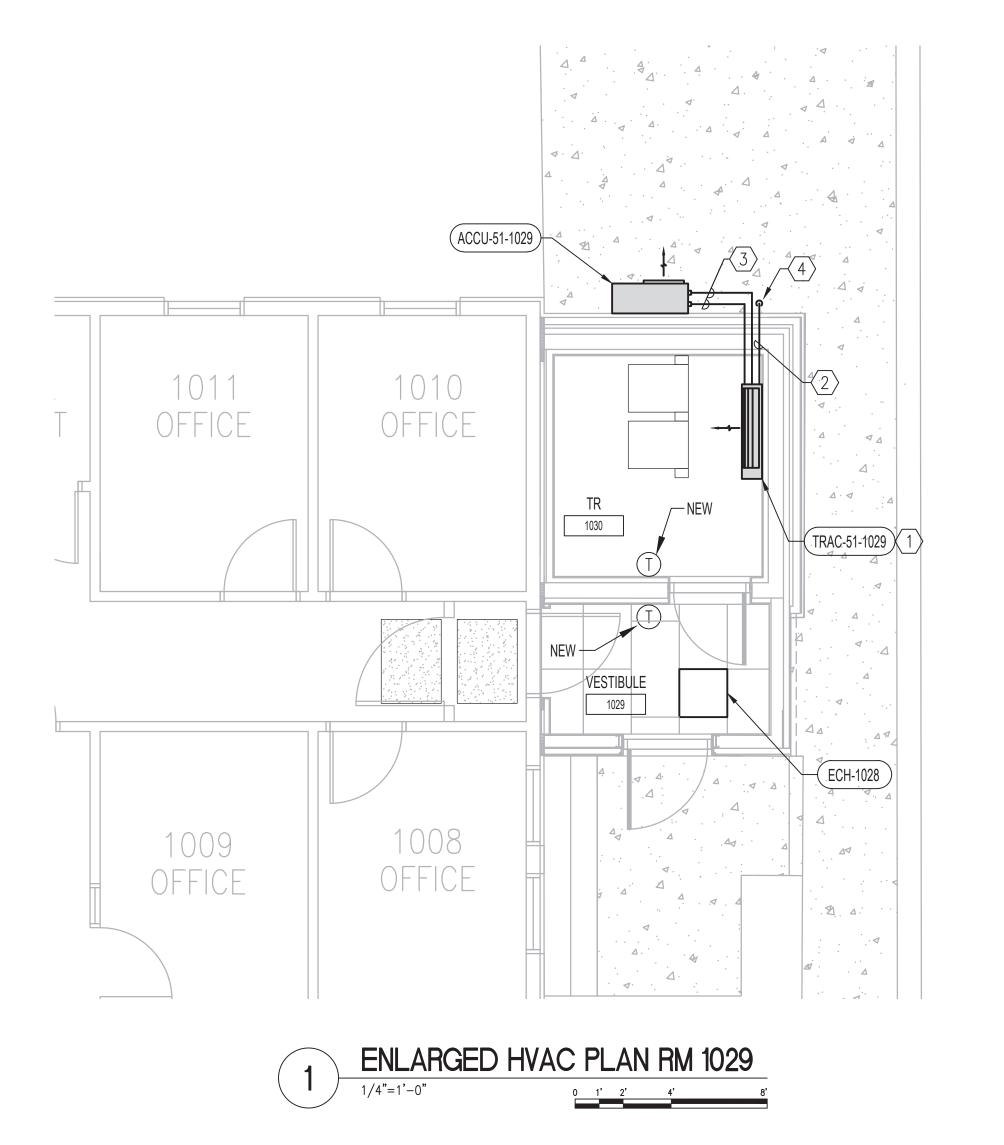
MECHANICAL GENERAL NOTES

- A. INSTALLING HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING HVAC EQUIPMENT SYSTEM COMPONENTS AND CONTROLS TO BE USED AS BACK UP FOR NEW SPLIT SYSTEM AIR CONDITIONING FROM DAMAGE WITHIN NEW TR SPACE. EXISTING SHALL REMAIN OPERATIONAL UPON COMPLETION OF CONTRACT.
- B. CONTRACTOR RESPONSIBLE FOR REMOVING AND REINSTALLATION OF CEILING TILES AS REQUIRED TO FACILITATE INSTALLATION OF REFRIGERANT AND CONDENSATE DRAIN PIPING.

MECHANICAL KEY NOTES - NEW WORK

- 1. WALL MOUNTED VRF DUCT FREE DX SPLIT SYSTEMS INDOOR UNIT. TELECOMMUNICATION ROOM AIR CONDITIONING UNIT (TRAC). COORDINATE ALL LOCATIONS WITH NEW AND EXISTING PIPING, ELECTRIC PANELS ÉTC. FOR CODE REQUIRED CLEARANCE AND EQUIPMENT ACCESS PRIOR TO FINAL LOCATION.
- INSULATED COPPER CONDENSATE DRAIN LINE FROM NEW WALL MOUNTED CONDENSATE PUMPS BELOW AC UNITS TO NEAREST INDIRECT WASTE CONNECTION. FOR LOCATION AND PIPING ROUTING SEE ROOF AND FULL FLOOR PLANS. (IN MULTIPLE SYSTEM INSTALLATIONS DRAIN LINES FROM EACH UNIT SHALL BE SERVED BY ONE CONDENSATE PUMP AND DRAIN LINE TO NEAREST MOP SINK OR FLOOR DRAIN WITH A SINGLE INDEPENDENT CONNECTION FOR ALL INSTALLATION CONDENSATE LINES EXITING ROOMS.).
- REFRIGERANT SUCTION (RS) AND LIQUID (RL) LINES FROM EVAPORATOR COIL CONNECTION TO REMOTE OUTDOOR AÌR ĆOOLED CONDENSING UNIT (ACCU). FOR LOCATION AND PIPING ROUTING SEE ROOF AND FULL FLOOR PLANS. SIZE PIPING PER MANUFACTURE'S RECOMMENDATION.
- 4. REFRIGERANT PIPING DOWN THROUGH ROOF PIPE PORTAL. (2) RS, (2) RC.

- 1. EXISTING THERMOSTATS AND CONTROL WIRING TO REMAIN AND ARE TO BE ADJUSTED 10 DEGREES ABOVE NEW AC EQUIPMENT SETPOINTS
- 2. ALL EXISTING HVAC SYSTEMS, EQUIPMENT, AIR DISTRIBUTION DUCTWORK, PLUMBING PIPING. MEDICAL GAS AND CONTROLS TO REMAIN. THIS INCLUDES ALL EQUIPMENT, PIPING, DUCTWORK AND CONTROLS SERVING AREAS OUTSIDE OF THIS ROOM.
- 3. EXISTING GRILLES, REGISTERS AND OPEN ENDED DUCTS TO REMAIN AS IS.
- 4. WHERE EXISTING CEILINGS ARE TO BE REMOVED, EXISTING DIFFUSERS, GRILLES, FLEXIBLE DUCT SHALL BE SUSPENDED FROM FROM STRUCTURE ABOVE. AS PART OF NEW WORK SCOPE. A SECOND ADJUSTMENT OF LOCATIONS MAY BE REQUIRED TO ACCOMMODATE NEW DATA WIRING AND DEVICES.
- 5. EXISTING SPLIT SYSTEM DX CASSETTE OR VRF FAN COIL TERMINALS, RELATED CONTROLS AND DRAIN PIPING SHALL REMAIN AS BACK UP SYSTEMS FOR NEW DEDICATED HEAT REMOVAL AND COOLING IN NEW WORK SCOPE.
- EXISTING VAV BOX AND RELATED PIPING, DUCTWORK, AIR DEVICES AND THERMOSTATS TO REMAIN AS BACK UP SYSTEMS FOR NEW DEDICATED HEAT REMOVAL AND COOLING IN NEW
- 7. EXISTING EXHAUST FAN, DUCTWORK, THERMOSTATS AND RELATED TEMP CONTROLS TO REMAIN AS BACK UP SYSTEM FOR NEW DEDICATED HEAT REMOVAL AND COOLING IN NEW WORK SCOPE.



- A. INSTALLING HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING HVAC EQUIPMENT SYSTEM COMPONENTS AND CONTROLS TO BE USED AS BACK UP FOR NEW SPLIT SYSTEM AIR CONDITIONING FROM DAMAGE WITHIN NEW TR SPACE. EXISTING SHALL REMAIN OPERATIONAL UPON COMPLETION OF CONTRACT.
- B. CONTRACTOR RESPONSIBLE FOR REMOVING AND REINSTALLATION OF CEILING TILES AS REQUIRED TO FACILITATE INSTALLATION OF REFRIGERANT AND CONDENSATE DRAIN PIPING.

MECHANICAL KEY NOTES - NEW WORK

- 1. WALL MOUNTED VRF DUCT FREE DX SPLIT SYSTEMS INDOOR UNIT. TELECOMMUNICATION ROOM AIR CONDITIONING UNIT (TRAC). COORDINATE ALL LOCATIONS WITH NEW AND EXISTING PIPING, ELECTRIC PANELS ETC. FOR CODE REQUIRED CLEARANCE AND EQUIPMENT ACCESS PRIOR TO FINAL LOCATION.
- 2. INSULATED COPPER CONDENSATE DRAIN LINE FROM NEW WALL MOUNTED CONDENSATE PUMPS BELOW AC UNITS TO NEAREST INDIRECT WASTE CONNECTION. FOR LOCATION AND PIPING ROUTING SEE ROOF AND FULL FLOOR PLANS. (IN MULTIPLE SYSTEM INSTALLATIONS DRAIN LINES FROM EACH UNIT SHALL BE SERVED BY ONE CONDENSATE PUMP AND DRAIN LINE TO NEAREST MOP SINK OR FLOOR DRAIN WITH A SINGLE INDEPENDENT CONNECTION FOR ALL INSTALLATION CONDENSATE LINES EXITING ROOMS.).
- 3. REFRIGERANT SUCTION (RS) AND LIQUID (RL) LINES FROM EVAPORATOR COIL CONNECTION TO REMOTE OUTDOOR AIR COOLED CONDENSING UNIT (ACCU). FOR LOCATION AND PIPING ROUTING SEE ROOF AND FULL FLOOR PLANS. SIZE PIPING PER MANUFACTURE'S RECOMMENDATION.
- 4. RUN 3/4" COPPER DRAIN LINE THOUGH WALL AND TERMINATE WITH 45° SCREENED ELBOW 42" MINIMUM ABOVE GRADE. PROVIDE SPLASH BLOCK ON GRADE BELOW. HEAT TRACE 5' FROM WALL.

MECHANICAL KEY NOTES - DEMOLITION

- 1. EXISTING THERMOSTATS AND CONTROL WIRING TO REMAIN AND ARE TO BE ADJUSTED 10 DEGREES ABOVE NEW AC EQUIPMENT SETPOINTS
- 2. ALL EXISTING HVAC SYSTEMS, EQUIPMENT, AIR DISTRIBUTION DUCTWORK, PLUMBING PIPING, MEDICAL GAS AND CONTROLS TO REMAIN. THIS INCLUDES ALL EQUIPMENT, PIPING, DUCTWORK AND CONTROLS SERVING AREAS OUTSIDE OF THIS ROOM.
- 3. EXISTING GRILLES, REGISTERS AND OPEN ENDED DUCTS TO REMAIN AS IS.
- 4. WHERE EXISTING CEILINGS ARE TO BE REMOVED, EXISTING DIFFUSERS, GRILLES, FLEXIBLE DUCT SHALL BE SUSPENDED FROM FROM STRUCTURE ABOVE. AS PART OF NEW WORK SCOPE. A SECOND ADJUSTMENT OF LOCATIONS MAY BE REQUIRED TO ACCOMMODATE NEW DATA WIRING AND DEVICES.
- 5. EXISTING SPLIT SYSTEM DX CASSETTE OR VRF FAN COIL TERMINALS, RELATED CONTROLS AND DRAIN PIPING SHALL REMAIN AS BACK UP SYSTEMS FOR NEW DEDICATED HEAT REMOVAL AND COOLING IN NEW WORK SCOPE.
- 6. EXISTING VAV BOX AND RELATED PIPING, DUCTWORK, AIR DEVICES AND THERMOSTATS TO REMAIN AS BACK UP SYSTEMS FOR NEW DEDICATED HEAT REMOVAL AND COOLING IN NEW WORK SCOPE.
- 7. EXISTING EXHAUST FAN, DUCTWORK, THERMOSTATS AND RELATED TEMP CONTROLS TO REMAIN AS BACK UP SYSTEM FOR NEW DEDICATED HEAT REMOVAL AND COOLING IN NEW WORK SCOPE.

N

KEY PLAN

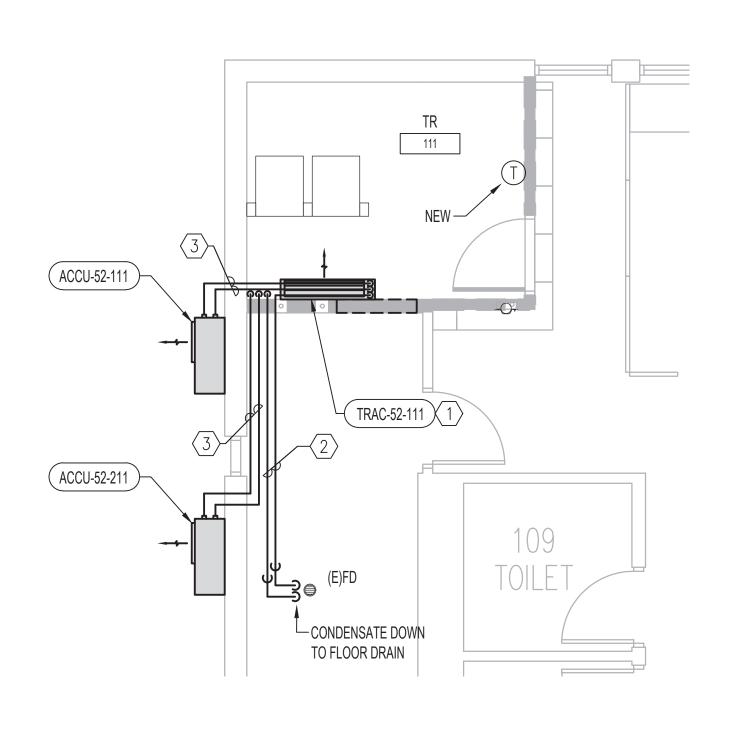
Drawing Title

MECHANICAL - BUILDING 51 -Project Title Project Number Phase ISSUE FOR BID CONSULTANT ARCHITECT/ENGINEER OF RECORD | STAMP Office of 437-21-205 EHRM INFRASTRUCTURE Construction and Facilities **UPGRADES Building Number** ENLARGED PLANS - FIRST FLOOR RAED HAMID Drawing Number PE-28170 Management 3300 Dundee RD. FARGO VA HEALTH CARE SYSTEM DATE 3/18/2022 Northbrook, IL 60062 SHEET 137 OF 279 T: 847.952.9362 Checked MH-51-101 www. bancroft-ae.com Bancroft Project No: 18-121 BANCROFT ARCHITECTS + ENGINEERS **ISSUE FOR BID** U.S. Department of Veterans Affairs 03-18-22 3/18/2022 DG ВХ Date: Revisions:

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8'0 2 RM 1111 110 109 TOILET

ENLARGED HVAC DEMO PLAN RM 111



ENLARGED HVAC PLAN RM 111

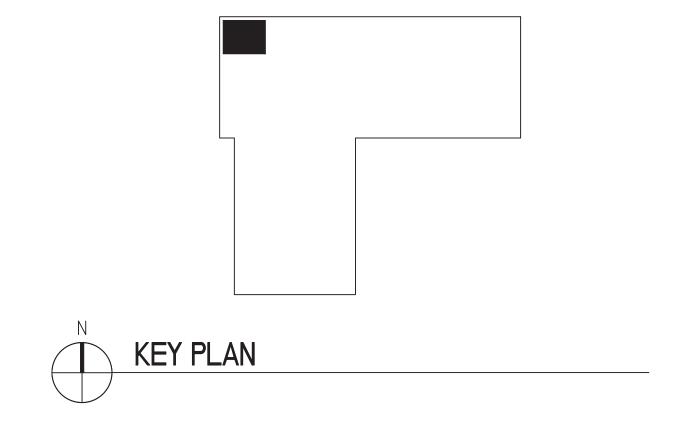
MECHANICAL GENERAL NOTES

- A. INSTALLING HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING HVAC EQUIPMENT SYSTEM COMPONENTS AND CONTROLS TO BE USED AS BACK UP FOR NEW SPLIT SYSTEM AIR CONDITIONING FROM DAMAGE WITHIN NEW TR SPACE. EXISTING SHALL REMAIN OPERATIONAL UPON COMPLETION OF CONTRACT.
- B. CONTRACTOR RESPONSIBLE FOR REMOVING AND REINSTALLATION OF CEILING TILES AS REQUIRED TO FACILITATE INSTALLATION OF REFRIGERANT AND CONDENSATE DRAIN PIPING.

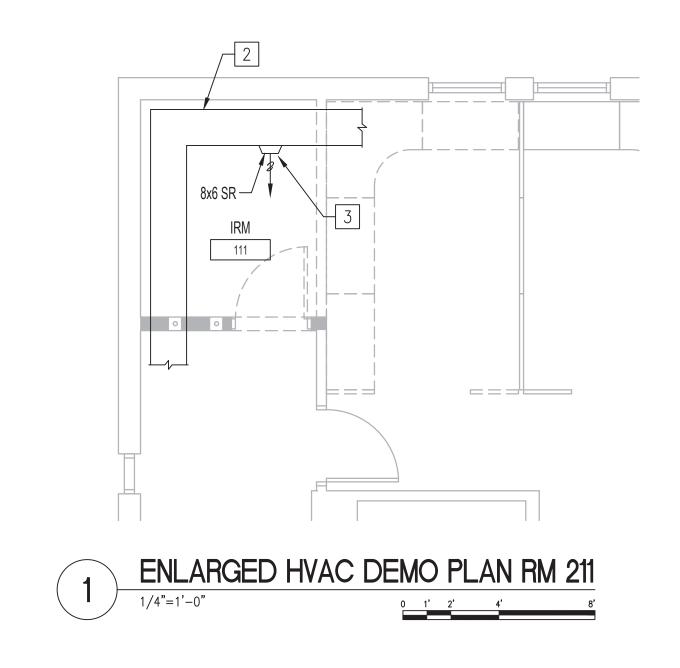
MECHANICAL KEY NOTES - NEW WORK

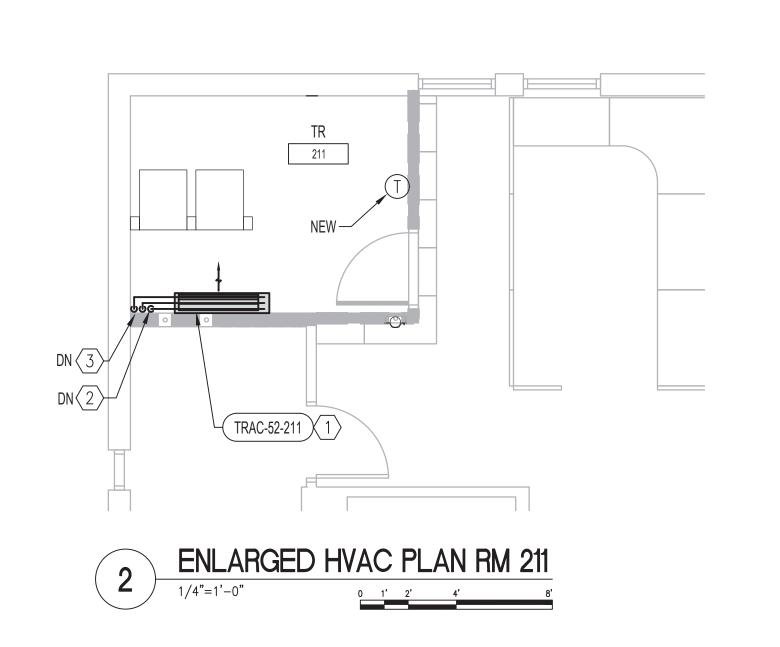
- 1. WALL MOUNTED VRF DUCT FREE DX SPLIT SYSTEMS INDOOR UNIT. TELECOMMUNICATION ROOM AIR CONDITIONING UNIT (TRAC). COORDINATE ALL LOCATIONS WITH NEW AND EXISTING PIPING, ELECTRIC PANELS ETC. FOR CODE REQUIRED CLEARANCE AND EQUIPMENT ACCESS PRIOR TO FINAL LOCATION.
- 2. INSULATED COPPER CONDENSATE DRAIN LINE FROM NEW WALL MOUNTED CONDENSATE PUMPS BELOW AC UNITS TO NEAREST INDIRECT WASTE CONNECTION. FOR LOCATION AND PIPING ROUTING SEE ROOF AND FULL FLOOR PLANS. (IN MULTIPLE SYSTEM INSTALLATIONS DRAIN LINES FROM EACH UNIT SHALL BE SERVED BY ONE CONDENSATE PUMP AND DRAIN LINE TO NEAREST MOP SINK OR FLOOR DRAIN WITH A SINGLE INDEPENDENT CONNECTION FOR ALL INSTALLATION CONDENSATE LINES EXITING ROOMS.).
- 3. REFRIGERANT SUCTION (RS) AND LIQUID (RL) LINES FROM EVAPORATOR COIL CONNECTION TO REMOTE OUTDOOR AIR COOLED CONDENSING UNIT (ACCU). FOR LOCATION AND PIPING ROUTING SEE ROOF AND FULL FLOOR PLANS. SIZE PIPING PER MANUFACTURE'S RECOMMENDATION.

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	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of	Drawing Title MECHANICAL - BUILDING 52 -	Phase ISSUE FOR BID	Project Title EHRM INFRASTRUCTURE	Project Number 437-21-205
			PROFESSION RAED HAMID	Construction and Facilities	ENLARGED PLANS - FIRST FLOOR		UPGRADES	Building Number 52
		3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362	PE-28170 PE-28170 DATE 3/18/2022	Management	SHEET 138 OF 279		Location FARGO VA HEALTH CARE SYSTEM	☐ Drawing Number
ISSUE FOR BID Revisions:	03-18-22 Date:	BANCROFT ARCHITECTS + ENGINEERS / www. bancroft-ae.com Bancroft Project No: 18-121	Page Hame	U.S. Department of Veterans Affairs			Issue Date Checked Drawn 3/18/2022 DG BX	MH-52-101



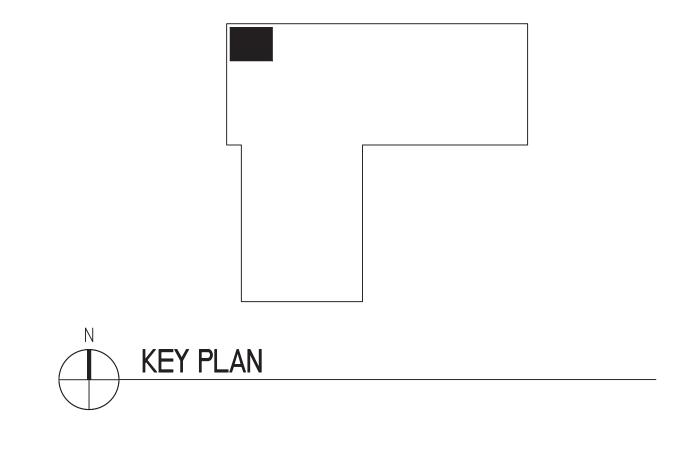


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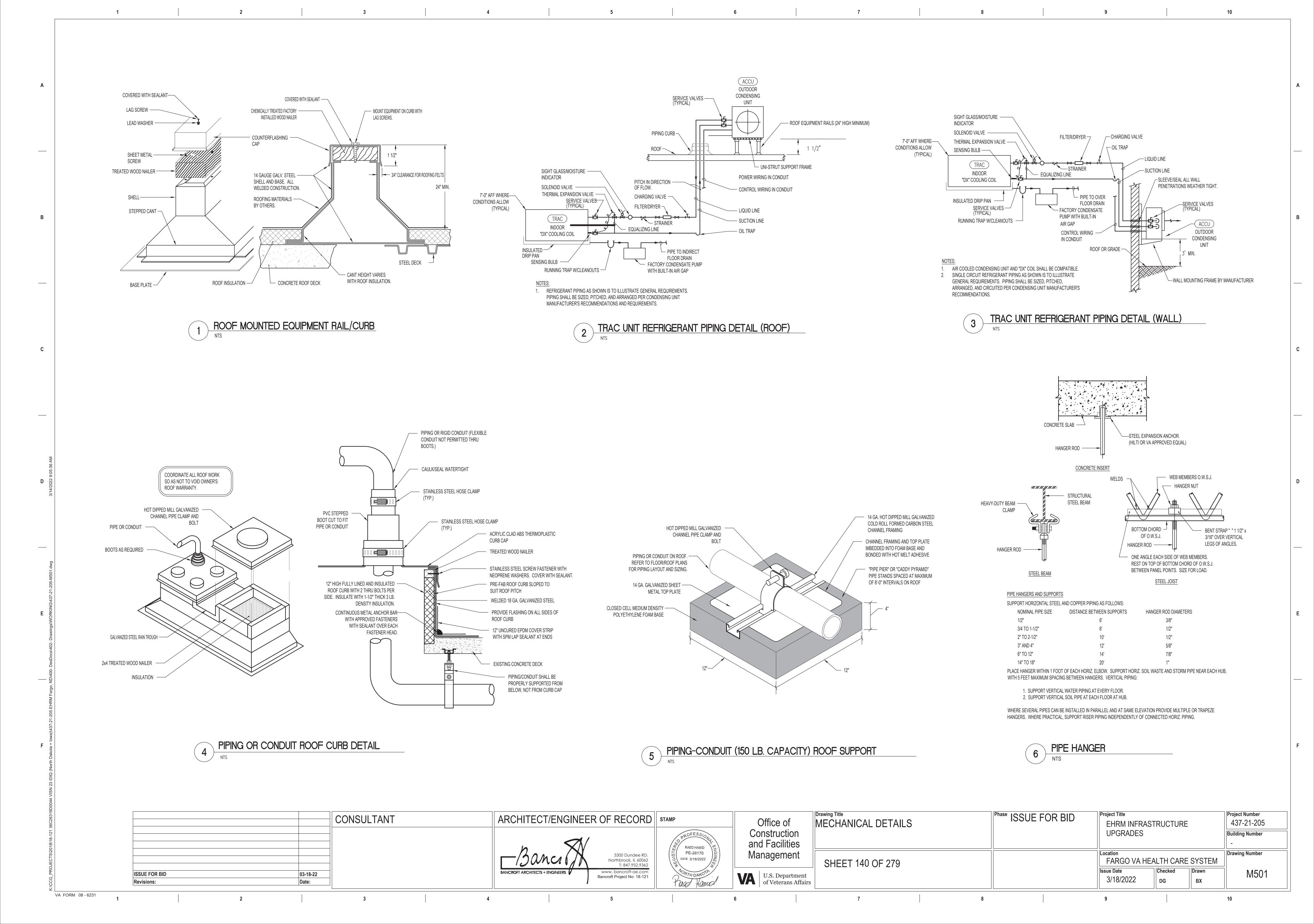
MECHANICAL KEY NOTES - NEW WORK

- 1. WALL MOUNTED VRF DUCT FREE DX SPLIT SYSTEMS INDOOR UNIT. TELECOMMUNICATION ROOM AIR CONDITIONING UNIT (TRAC). COORDINATE ALL LOCATIONS WITH NEW AND EXISTING PIPING, ELECTRIC PANELS ETC. FOR CODE REQUIRED CLEARANCE AND EQUIPMENT ACCESS PRIOR TO FINAL LOCATION.
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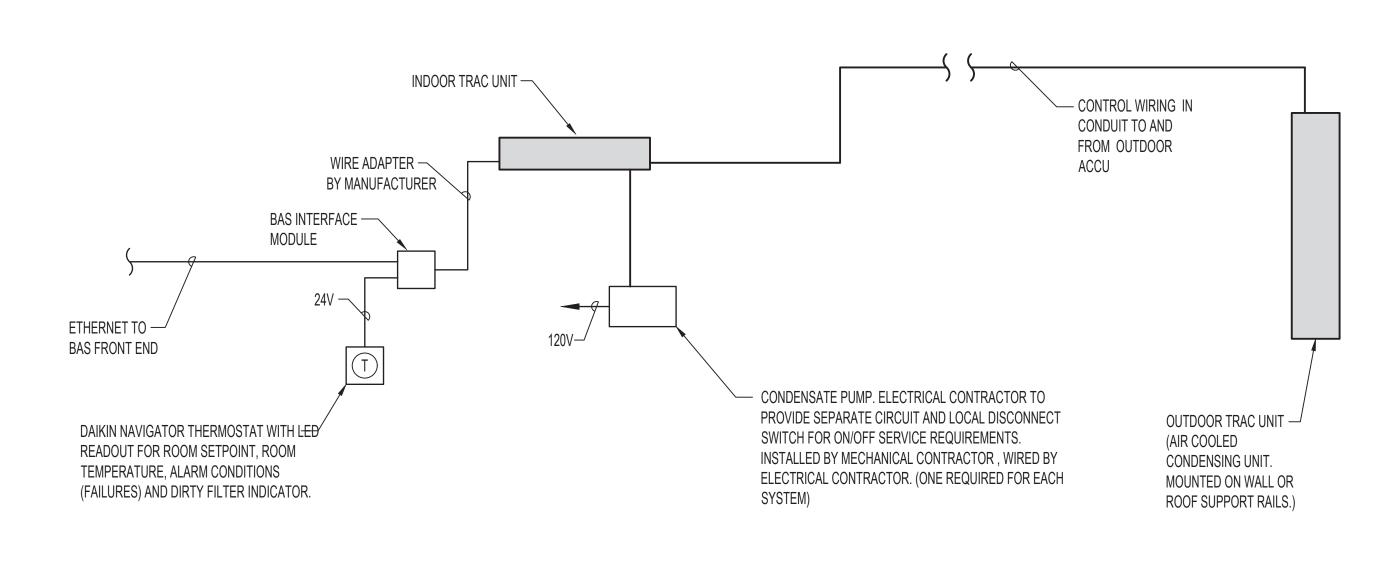


	CONSULTANT	ARCHITECT/ENGINEER OF RECORD STAMP	Office of	Drawing Title MECHANICAL - BUILDING 52 -	Phase ISSUE FOR BID	Project Title EHRM INFRASTRUCTURE	Project Number 437-21-205
		PROFESSION RAED HAMID		ENLARGED PLANS - SECOND FLOOR		UPGRADES	Building Number 52
		3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362 RAED HAMID PE-28170 DATE 3/18/2022		SHEET 139 OF 279		Location FARGO VA HEALTH CARE SYST	Drawing Number
ISSUE FOR BID Revisions:	03-18-22 Date:	BANCROFT ARCHITECTS + ENGINEERS www. bancroft-ae.com Bancroft Project No: 18-121	U.S. Department of Veterans Affair			Issue Date Checked Drawn 3/18/2022 DG BX	MH-52-102



UNDERSIDE OF FLOOR OR ROOF DECK

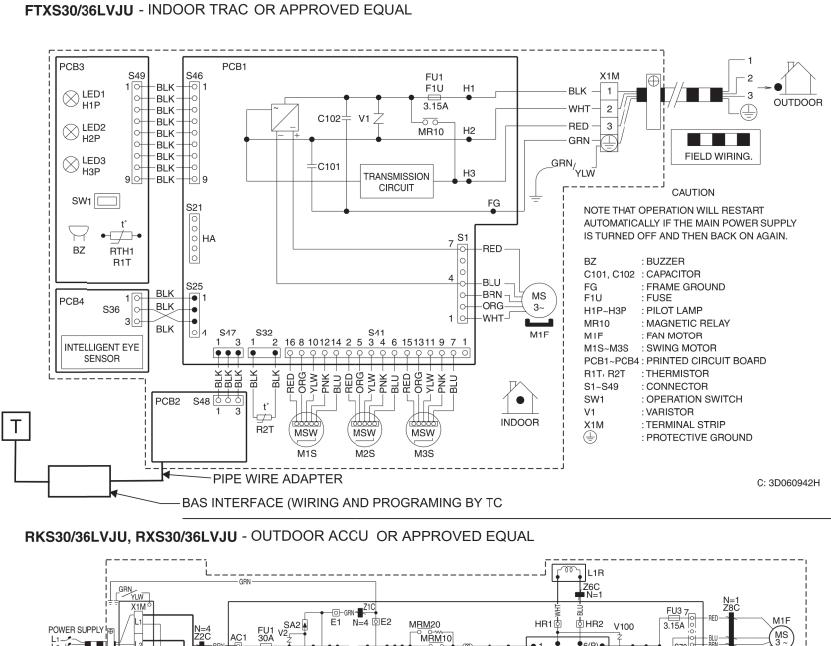
FLOOR

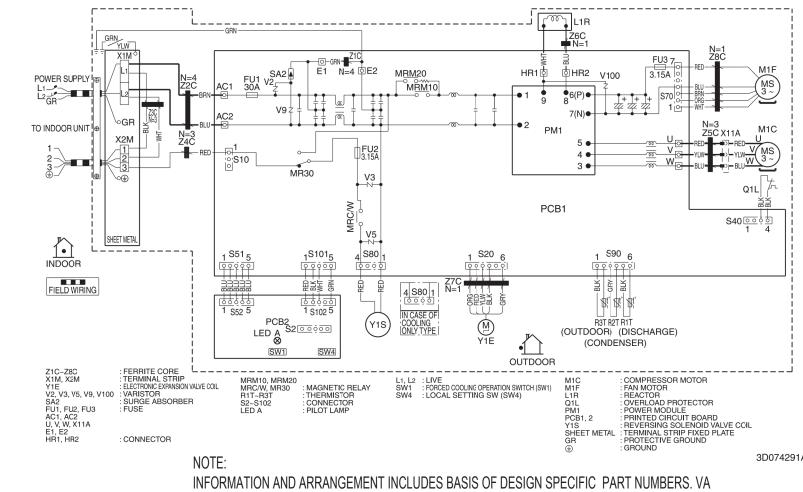


INFORMATION AND ARRANGEMENT INCLUDES BASIS OF DESIGN SPECIFIC PART NUMBERS. VA APPROVED DESIGN SHALL BE EQUAL AND INCLUDE SIMILAR DEVICES AND ARRANGEMENT.

TYPICAL TRAC UNIT CONTROLS AND DEVICES DETAIL

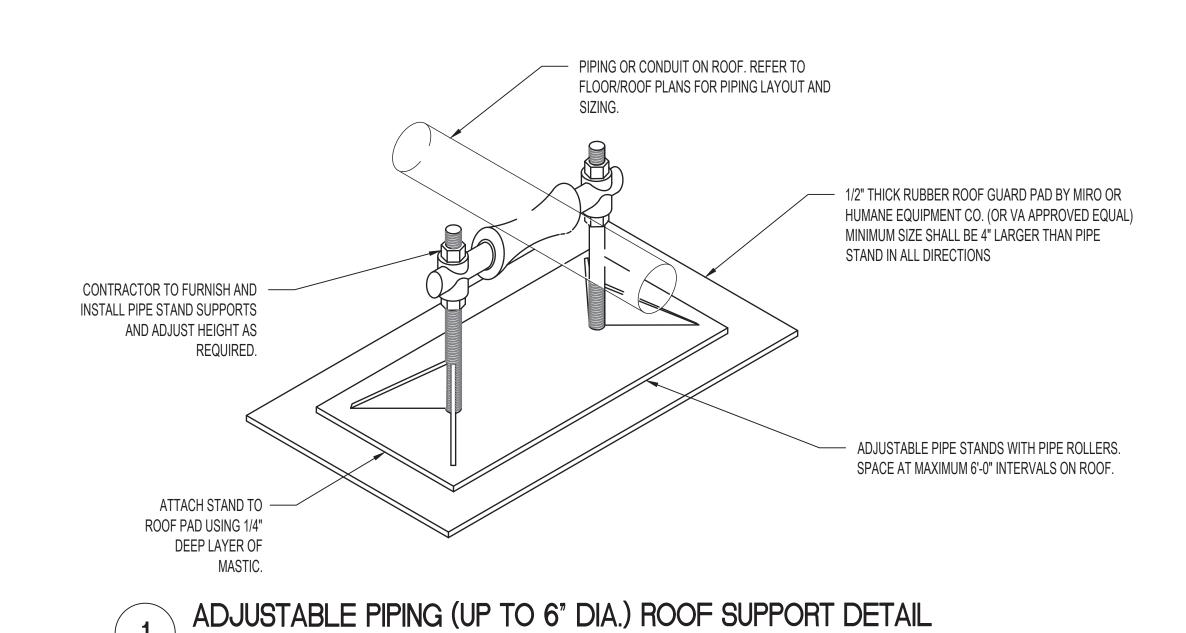
Wiring Diagrams





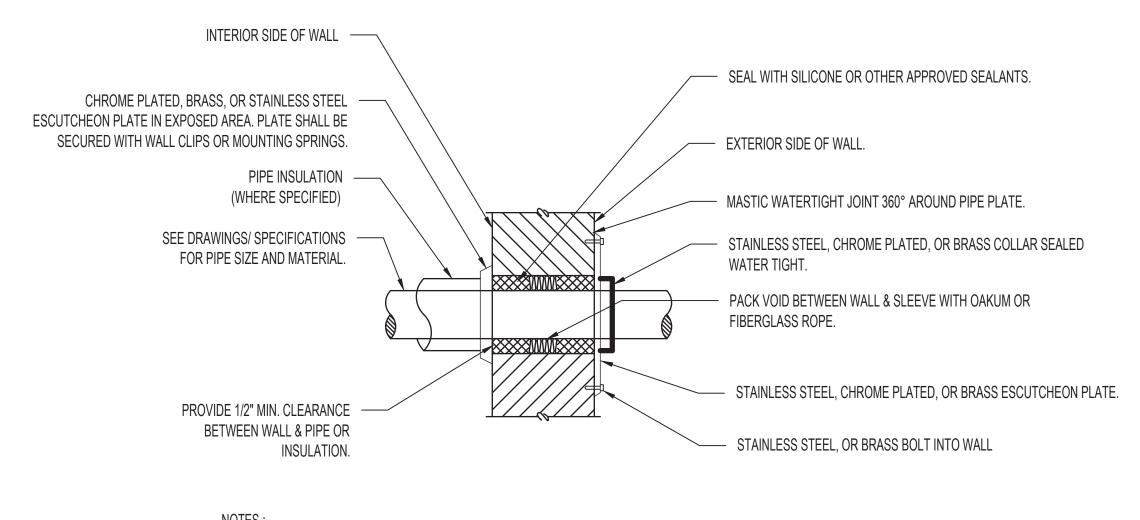
TYPICAL TRAC UNIT WIRING DIAGRAM

APPROVED DESIGN SHALL BE EQUAL AND INCLUDE SIMILAR DEVICES AND ARRANGEMENT.



WALL OR FLOOR SLAB -— FIRESTOP MATERIAL AROUND PIPE ROCK WOOL PIPE INSULATION — — PIPE OR CONDUIT THRU PENETRATION (WHERE INSULATION IS REQUIRED) - SEALANT - 3M FIRE BARRIER OR EQUAL INSULATION WHERE — REQUIRED STEEL PIPE SLEEVE -





1. CONTRACTOR SHALL ISOLATE ALL PIPES WHICH VIBRATE FROM CONSTRUCTION IN ORDER TO AVOID TRANSMISSION TO STRUCTURE. 2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THEIR WALL OPENINGS WITH OTHER TRADES AND/OR CONTRACTORS.

PIPE PENETRATION OF EXTERIOR WALL ABOVE GRADE

	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of	Drawing Title MECHANICAL DETAILS	Phase ISSUE FOR BID	Project Title EHRM INFRASTF	RUC
			RAED HAMID	Construction and Facilities			UPGRADES	
		3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362	PE-28170 DATE 3/18/2022	Management	SHEET 141 OF 279		Location FARGO VA HEAL	
ISSUE FOR BID 03-18-22 Revisions: Date:		BANCROFT ARCHITECTS + ENGINEERS www. bancroft-ae.com Bancroft Project No: 18-121	NORTH DAKOTA	U.S. Department of Veterans Affairs				Check DG
NOTIONO.		*	I Tage Hamer	of veteralis Affairs				_ •

VA FORM 08 - 6231

437-21-205 RUCTURE Drawing Number TH CARE SYSTEM

Project Number

VA FORM 08 - 6231

Project Title Phase ISSUE FOR BID CONSULTANT ARCHITECT/ENGINEER OF RECORD | STAMP Office of MECHANICAL SCHEDULES Construction and Facilities RAED HAMID Management PE-28170 3300 Dundee RD. Northbrook, IL 60062 DATE 3/18/2022 SHEET 142 OF 279 T: 847.952.9362 BANCROFT ARCHITECTS + ENGINEERS www. bancroft-ae.com U.S. Department of Veterans Affairs **ISSUE FOR BID** 03-18-22 Bancroft Project No: 18-121 Date: Revisions:

																					 '				
TRAC-1A54A&B	TR 1A-54	1-9-46	DAIKIN	6/2	12.5KW / 42,650	10,200 / 36,000	24,000	FTXS36LVJU HIGH WALL	10	47 13	770	80	67	CLEANABLE	ACCU-1A54A&B	RKS36LVJU	ROOF	3	R-410A	95 17.9	19.5	20	1	208	1,2,3,4,6
TRAC-1C99A&B	TR 1C-99	1-9-46	DAIKIN	5/2	8.5KW / 29.0	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-1C99A&B	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	3 17	20	1	208	1,2,3,4,5
TRAC-1D158	TR 1D-158	1-9-46	DAIKIN	1/1	5KW / 17,060	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-1D158	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	3 17	20	1	208	1,2,3,4,6
TRAC-1D64AA&B	TR 1D-64A	1-9-46	DAIKIN	4/2	8.5KW / 29.0	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-1B64AA&B	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	3 17	20	1	208	1,2,3,4,6
TRAC-2A24A&B	TR 2A-24	1-9-46	DAIKIN	6/2	12.5KW / 42,650	10,200 / 36,000	24,000	FTXS36LVJU HIGH WALL	10	47 13	770	80	67	CLEANABLE	ACCU-2A24A&B	RKS36LVJU	ROOF	3	R-410A	95 17.9	19.5	20	1	208	1,2,3,4,6
TRAC-2C33A&B	TR 2C-33	1-9-46	DAIKIN	3/2	8.5KW / 29.0	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-2C33A&B	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	3 17	20	1	208	1,2,3,4,6
TRAC-2C90A&B	TR 2C-90A	1-9-46	DAIKIN	4/2	10 KW / 34,120	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-2C90A&B	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	3 17	20	1	208	1,2,3,4,5
TRAC-2D18A&B	TR 2D-18	1-9-46	DAIKIN	4/2	10 KW / 34,120	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-2D18A&B	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	3 17	20	1	208	1,2,3,4,5
TRAC-3B23	TR 3B-23	1-9-46	DAIKIN	5/2	10 KW / 34,120	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-3B23	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	3 17	20	1	208	1,2,3,4,6
TRAC-3D12A&B	TR 3D-12	1-9-46	DAIKIN	4/2	10 KW / 34,120	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-3D12A&B	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	3 17	20	1	208	1,2,3,4,5
TRAC-4B23A&B	TR 4B-23	1-9-46	DAIKIN	4/2	8.5KW / 29.0	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-4B23A&B	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	3 17	20	1	208	1,2,3,4,6
TRAC-4E15A	TR 4E-15A	1-9-46	DAIKIN	2/1	7KW / 23,884	10,200 / 36,000	24,000	FTXS36LVJU HIGH WALL	10	47 13	770	80	67	CLEANABLE	ACCU-4E15A	RKS36LVJU	ROOF	3	R-410A	95 17.9	19.5	20	1	208	1,2,3,4,6
TRAC-5-501	TR 501	1-9-46	DAIKIN	1/1	5KW / 17,060	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-5-501	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	17	20	1	208	1,2,3,4,6
TRAC-5-502	TR 502	1-9-46	DAIKIN	1/1	5KW / 17,060	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-5-501	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	3 17	20	1	208	1,2,3,4,6
TRAC-5-503A&B	TR 503	1-9-46	DAIKIN	4/2	10 KW / 34,120	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-5-503A&B	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	3 17	20	1	208	1,2,3,4,5
TRAC-3-0006	TR 0006	3	DAIKIN	1/1	5KW / 17,060	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-0006	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	3 17	20	1	208	1,2,3,4,5
TRAC-11-0001	SHOP OFFICE 0001	11	DAIKIN	1/1	5KW / 17,060	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-3-0001	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	3 17	20	1	208	1,2,3,4,5
TRAC-12-0005	TR 0005	12	DAIKIN	1/1	5KW / 17,060	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-12-0005	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	3 17	20	1	208	1,2,3,4,5
TRAC-13-101	OFFICE 101	13	DAIKIN	1/1	5KW / 17,060	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-13-101	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	3 17	20	1	208	1,2,3,4,5
TRAC-40-102BA,B,&C	TR 102B	40	DAIKIN	4/3	10 KW / 34,120	10,200 / 31,400	19,940	FTXS30LVJU HIGH WALL	10	47 13	706	80	67	CLEANABLE	ACCU-40-102BA,B,&C	RKS30LVJU	ROOF	2.5	R-410A	95 19.3	3 17	20	1	208	1,2,3,4,6
TRAC-40-204C	TR 204C	51	DAIKIN	2/1	7KW / 23,884	10,200 / 36,000	24,000	FTXS36LVJU HIGH WALL	10	47 13	770	80	67	CLEANABLE	ACCU-40-204C	RKS36LVJU	ROOF	3	R-410A	95 17.9	19.5	20	1	208	1,2,3,4,6
TRAC-51-1029	TR 1029	51	DAIKIN	2/1	7KW / 23,884	10,200 / 36,000	24,000	FTXS36LVJU HIGH WALL	10	47 13	770	80	67	CLEANABLE	ACCU-51-1029	RKS36LVJU	ROOF	3	R-410A	95 17.9	19.5	20	1	208	1,2,3,4,5
TRAC-52-111	TR 111	52	DAIKIN	2/1	7KW / 23,884	10,200 / 36,000	24,000	FTXS36LVJU HIGH WALL	10	47 13	770	80	67	CLEANABLE	ACCU-52-111	RKS36LVJU	ROOF	3	R-410A	95 17.9	19.5	20	1	208	1,2,3,4,5
TRAC-52-211	TR 211	52	DAIKIN	2/1	7KW / 23,884	10,200 / 36,000	24,000	FTXS36LVJU HIGH WALL	10	47 13	770	80	67	CLEANABLE	ACCU-52-211	RKS36LVJU	ROOF	3	R-410A	95 17.9	19.5	20	1 1	208	1,2,3,4,5

TELECOMUNICATION ROOM AC DUCT FREE VRF SPLIT SYSTEM SCHEDULE

FTXS30LVJU | HIGH WALL |

FTXS30LVJU HIGH WALL

FTXS30LVJU | HIGH WALL |

FTXS36LVJU | HIGH WALL |

FTXS36LVJU | HIGH WALL |

HIGH WALL

10

FTXS36LVJU

MODEL

INDOOR UNIT

13

13

13

13

13

DIMENSIONS (IN.)

W

47

AIRFLOW (AHRI)

(°F)

TOTAL EAT. D.B. (°F)

706

706

706

770

770

770

80

FILTERS

TYPE

CLEANABLE

CLEANABLE

CLEANABLE

CLEANABLE

CLEANABLE

CLEANABLE

EQUIPMENT

ACCU-BA30A&B

ACCU-BB92A&B

ACCU-BC02A&B

ACCU-BD02

ACCU-BD84

ACCU-1B121

MODEL LOCATION

ROOF

ROOF

RKS30LVJU

RKS30LVJU

RKS30LVJU

RKS36LVJU

RKS36LVJU

RKS36LVJU

NUMBER OF DATA REQUIRED EHRM

/ NUMBER OF SENSIBLE HEAT OF

ROOM DESIGN

REJECTION - KW

RACK QTY.)

8.5KW / 29,000

8.5KW / 29.0

8.5KW / 29.0

7KW / 23,884

7KW / 23,884

7KW / 23,884

BTUH (BASED ON

RACKS SERVED

SYSTEMS

ROOM

3/2

3/2

3/2

2/1

2/1

2/1

REQUIRED PER /

BUILDING BASIS OF DESIGN

DAIKIN

DAIKIN

DAIKIN

DAIKIN

DAIKIN

DAIKIN

1-9-46

1-9-46

1-9-46

1-9-46

1-9-46

1-9-46

SYSTEM (MIN

/ MAX)

COOLING

CAPACITY

(BTUH)

10,200 / 31,400

10,200 / 31,400

10,200 / 31,400

10,200 / 36,000

10,200 / 36,000

10,200 / 36,000

SYSTEM SENSIBLE

AHRI RATED

COOLING

CAPACITY

(BTUH)

19,940

19,940

19,940

24,000

24,000

24,000

1 . PROVIDE DISCONNECTS (1) NEMA 3R FACTORY UNIT MOUNTED FOR ACCUS AND (1) NEMA 1 SHIPPED LOOSE FOR TRACS TO BE FIELD MOUNTED INDOOR.

2. PROVIDE WITH WALL MOUNTED CONTROLLER WITH INTEGRAL THERMOSTAT, TOUCH SCREEN AND BAS INTERFACE FOR MONITORING AND ALARMS THROUGH FRONT END.

3.UNIT SHALL BE FACTORY EQUIPED FOR CATALOG -40F RATED ULTRA LOW AMBIENT OPERATION.

TELECOMMUNICATION

ROOM SERVED

TR BA-30

TR BB-92

TR BC-02

TR BD-02

TR BD-84

TR 1B-121

EQUIPMENT

TRAC-BA30A&B

TRAC-BB92A&B

TRAC-BC02A&B

TRAC-BD02

TRAC-BD84

TRAC-1B121

4. PROVIDE WITH WALL MOUNT FRAMES AND HARDWARE FOR ALL INDOOR TRAC UNITS. 5. PROVIDE WALL MOUNT FRAMES AND HARDWARE PER DETAIL ON SHEET M-501 FOR ALL WALL MOUNTED OUTDOOR ACCU UNITS.

6. PROVIDE RAILS AND SUPPORT FRAMES PER DETAIL ON SHEET M-501 FOR ALL ROOF MOUNTED OUTDOOR ACCU UNITS. 7. OTHER MANUFACTURERS SHALL BE ACCEPTED PER VA APPROVAL. BASIS OF DESIGN IS STATION PREFFERED.

GENERAL					HEATER			FAN DATA		ELECTRICAL DATA			_
EQUIPMENT TAG	LOCATION	TYPE	MANUFACTURER	MODEL	KW	PHASE	VOLT	TYPE	CFM	AMPS	PHASE	VOLT	NOTES
ECH-101	VESTIBULE 101	RECESSED CEILING	MARKEL	3480 SERIES	4	1	208	PROP.	425	19.2	1	208	1,2,3,

OUTDOOR UNIT

SIZE | REF. | EAT

COMPRESSOR

ELECTRICAL DATA

208

208

208

208

208

208

1,2,3,4,5

1,2,3,4,5

1,2,3,4,5

1,2,3,4,6

1,2,3,4,6

Project Number

Building Number

Drawing Number

M601

EHRM INFRASTRUCTURE

FARGO VA HEALTH CARE SYSTEM

Checked

ВХ

DG

UPGRADES

3/18/2022

437-21-205

(TONS) TYPE (°F) SEER MCA MOCP PHASE VOLTS

R-410A 95 19.3 17 20

R-410A 95 17.9 19.5 20

R-410A 95 | 17.9 | 19.5 | 20

R-410A 95 17.9 19.5 20

R-410A 95 19.3

R-410A 95 19.3

OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUAL. SEE SPECIFICATIONS.

PROVIDE WITH DISCONNECT SWITCH. PROVIDE WITH MOUNTING HARDWARE AND FRAME TO MATCH ACT CEILING MOUNTING REQUIREMENTS.

PROVIDE WITH FAN DELAY SWITCH. PROVIDE WITH REMOTE PROGRAMMABLE WALL MOUNTED THERMOSTAT.