Addendum 3 for RFB927940-04

Project Name: WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40 & 9279.41) Bid Issuance #4
DAS RFB #: 927940-04
DAS Project #: 9279.40 & 9279.41
Date: 6/2/2026

Bids Due: June 4, 2026, at 2:00pm

TO: PROSPECTIVE BIDDERS:

THIS ADDENDUM FORMS A PART OF THE BIDDING AND CONTRACT DOCUMENTS AND MODIFIES THE BIDDING DOCUMENTS DATED 03-27-2026, WITH AMENDMENTS AND ADDITIONS NOTED BELOW. THIS ADDENDUM SUPERSEDES AND SUPPLEMENTS ALL PORTIONS OF THE ORIGINAL BIDDING AND CONTRACT DOCUMENTS WITH WHICH IT CONFLICTS. ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE IMPACS ELECTRONIC PROCUREMENT SYSTEM. FAILURE TO DO SO MAY DISQUALIFY THE BIDDER.

QUESTIONS AND ANSWERS:

Q1. Can we get some clarification on the Gas Meters required for this project. Are they to be replaced, or are we running our new piping from the existing meters?

A1. The gas meters have already been installed so new piping is what should be included.

DRAWINGS:

- **09-A110 – BASEMENT RCP – BUILDING A & B**
  - REVISE keynote A12 to read: 'FIRESTOP ALL EXISTING AND NEW PENETRATIONS THROUGH FLOOR/CEILING ASSEMBLY WITH APPROVED FIRESTOP SYSTEMS TO MAINTAIN 1 HOUR FIRE-RATED ASSEMBLY.'

- **09-E201 – FIRST FLOOR A&B POWER PLAN:**

  - **ADD** to keynote 09-E030 "TEMPORARY INSTALL BOTH NEW AND EXISTING DEVICES DURING CONSTRUCTION. INSTALL THE NEW DEVICES LAST IN THE PROJECT TO MINIMIZE THE TIME THE DEVICES ARE INSTALLED TEMPORARILY. THIS KEYNOTE TO APPLY TO ALL CORRIDORS WITH HARD LID CEILING."

- **09-ED200 – BASEMENT LEVEL A&B – DEMOLITION PLAN:**

  - **CHANGE** to keynote 09-E025 to state "EXISTING FIRE ALARM CONTROL PANEL TO REMAIN OPERATIONAL DURING CONSTRUCTION. REMOVE EXISTING DEVICES, CONDUIT TO DEVICES AND WIRING TO DEVICES AFTER NEW FIRE ALARM SYSTEM IS OPERATIONAL. REMOVE EXISTING FIRE ALARM CONTROL PANEL AT THE END OF CONSTRUCTION."

- **09-FP101 – FIRST FLOOR FIRE PROTECTION PLAN:**

  - **ADD** Keynote 09-FP08 to fire protection piping in corridor.

- **09-M400 – BUILDING A & B ENLARGED AHU PLANS:**
    - **ADD** Approximate duct support locations to exterior ductwork and associated note “SUPPORTS REPRESENTATIVE OF APPROXIMATE REQUIRED SUPPORTING DISTANCE REQUIREMENTS AND QUANTITY. CONTRACTOR SHALL VERIFY SUPPORTING REQUIREMENTS WITH FINAL DUCT SIZES AND SMACNA GUIDELINES. CONTRACTOR SHALL COORDINATE LOCATIONS OF SUPPORTS WITH ALL UNDERGROUND UTILITIES AND VERIFY ALL EXISTING CONDITIONS PRIOR TO EXCAVATION AND CONSTRUCTION.”
- **09-M402 – BUILDING A & B NATURAL GAS PLAN:**
    - **REVISE** Natural gas pipe sizing to AHU-A and AHU-B on Gas Piping Schematic.
- **09-M600 – MECHANICAL SCHEDULES:**
    - **REVISE** Air Pressure Drop to heating coils for VAV-A-209, VAV-A-214, VAV-A-216, VAV-B-228, VAV-B-229, VAV-B-239.

- **13-A110 – BASEMENT RCP – BUILDING C & D**
    - REVISE keynote A12 to read: FIRESTOP ALL EXISTING AND NEW PENETRATIONS THROUGH FLOOR/CEILING ASSEMBLY WITH APPROVED FIRESTOP SYSTEMS TO MAINTAIN 1 HOUR FIRE-RATED ASSEMBLY.’
- **013-ED200 – BASEMENT LEVEL C&D – DEMOLITION PLAN:**
    - **CHANGE** to keynote 13-E025 to state “EXISTING FIRE ALARM CONTROL PANEL TO REMAIN OPERATIONAL DURING CONSTRUCTION. REMOVE EXISTING DEVICES, CONDUIT TO DEVICES AND WIRING TO DEVICES AFTER NEW FIRE ALARM SYSTEM IS OPERATIONAL. REMOVE EXISTING FIRE ALARM CONTROL PANEL AT THE END OF CONSTRUCTION.”
- **13-E201 – FIRST FLOOR C&D POWER PLAN:**
    - **ADD** to keynote 13-E030 “TEMPORARY INSTALL BOTH NEW AND EXISTING DEVICES DURING CONSTRUCTION. INSTALL THE NEW DEVICES LAST IN THE PROJECT TO MINIMIZE THE TIME THE DEVICES ARE INSTALLED TEMPORARILY. THIS KEYNOTE TO APPLY TO ALL CORRIDORS WITH HARD LID CEILING.”
- **13-E202 – SECOND FLOOR C&D – POWER PLAN:**
    - **REMOVE** Keynote 09-E033 from keynote key.
- **13-FP100 – BASEMENT FIRE PROTECTION PLAN:**
    - **REMOVE** Keynote 13-FP08 from piping inside Building D basement.
- **13-FP101 – FIRST FLOOR FIRE PROTECTION PLAN:**
    - **ADD** Keynote 13-FP08 to fire protection piping in corridor.
- **13-FP300 – OVERALL FIRE PROTECTION PLAN:**
    - **ADD** Keynote 13-FP08 to fire protection piping in corridor.
    - **ADD** Keynote Legend
    - **ADD** Detail G3 – FIRE PROTECTION HANGER ARM detail.
    - **REVISE** Note on pipe routing.

- **13-M200 – BASEMENT MECHANICAL DUCTWORK PLAN:**
    - **ADD** Keynote 13-M03 to EUH-D-2.
- **13-M201 – FIRST FLOOR MECHANICAL DUCTWORK PLAN:**
    - **ADD** Keynote 13-M03 to EUH-CD-5 and EUH-CD-6.
- **13-M300 – THERMOSTAT PLAN:**
    - **ADD** Tags to EUH-D-2 and ACCU-D-2.
- **13-M400 – BUILDING C & D ENLARGED AHU PLANS:**
    - **ADD** Approximate duct support locations to exterior ductwork and associated note "SUPPORTS REPRESENTATIVE OF APPROXIMATE REQUIRED SUPPORTING DISTANCE REQUIREMENTS AND QUANTITY. CONTRACTOR SHALL VERIFY SUPPORTING REQUIREMENTS WITH FINAL DUCT SIZES AND SMACNA GUIDELINES. CONTRACTOR SHALL COORDINATE LOCATIONS OF SUPPORTS WITH ALL UNDERGROUND UTILITIES AND VERIFY ALL EXISTING CONDITIONS PRIOR TO EXCAVATION AND CONSTRUCTION."
- **13-M402 – BUILDING C & C NATURAL GAS PLAN:**
    - **REVISE** Natural gas pipe sizing to AHU-C and AHU-D on Gas Piping Schematic.
- **13-M600 – MECHANICAL SCHEDULES:**
    - **REVISE** Air Pressure Drop to heating coils for VAV-C-24, VAV-C-71, VAV-C-72, VAV-D-46, VAV-D-56, VAV-D-240.
- **13-MD202 – MECHANICAL SCHEDULES:**
    - **REVISE** Keynote pointing to heating coil I mechanical room to 13-MD2.
- **13-AD00 – BASEMENT DEMOLITION PLAN – BUILDING C & D**
    - **DELETE** window demolition shown on west side of Building C
    - **ADD** demolition and keynote of plywood window infill on east side of Building D
- **13-A100 – BASEMENT FLOOR PLAN – BUILDING C & D**
    - **ADD** keynote A24 on west side of Building C
    - **ADD** keynote A26 and keynote A25 on east side of Building D

SUBSTITUTION REQUESTS

- 23 3300 Air Duct Accessories – Manufacturer: United Enertech -APPROVED
- 23 3300 Air Duct Accessories – Manufacturer: Greenheck - APPROVED
- 23 3713 Diffusers, Registers, and Grilles – Manufacturer: Tuttle & Bailey -APPROVED
- 23 7413 Packaged Outdoor Air Handler Units – Manufacturer: VTS Ventus AHU - APPROVED
- 23 8240 Electric Unit Heaters – Manufacturer: Brasch - APPROVED
- 23 8240 Electric Unit Heaters – Manufacturer: Oulette OCA - APPRVOED

ATTACHMENTS

- 09-FP101, 09-M400, 09-M402, 09-M600, 13-AD00, 13-A100, 13-FP100, 13-FP101, 13-FP300, 13-M200, 13-M201, 13-M300, 13-M400, 13-M402, 13-M600, & 13-MD202

END OF ADDENDUM

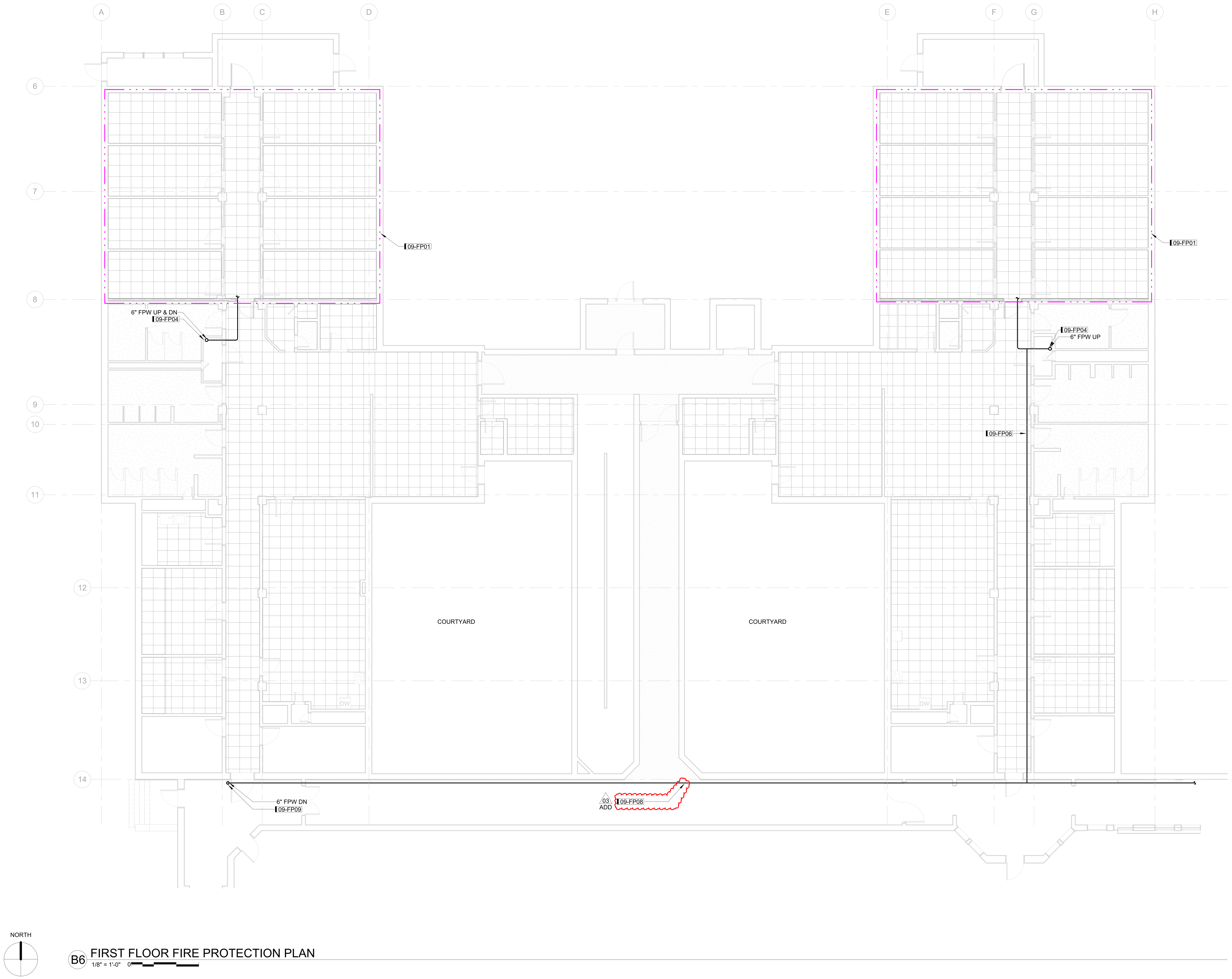
KEYNOTES

KEY	NOTE
09-FP01	INSTALL SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. AREA SHALL BE CONSIDERED ORDINARY HAZARD GROUP 2 WITH MINIMUM DENSITY OF 0.20 GPM/SF OVER THE MOST HYDRAULICALLY REMOTE 1500 SF WITH 250 COMBINED INSIDE AND OUTSIDE HOSE STREAM ALLOWANCE.
09-FP04	LOCATION OF RISER SHOWN IS THE ANTICIPATED RISER LOCATION. CONTRACTOR SHALL CORE DRILL THROUGH FLOOR AS REQUIRED AT FINAL RISER LOCATION. CONTRACTOR SHALL FIELD VERIFY ROUTING AND COORDINATE FINAL ROUTING WITH ABATEMENT CONTRACTOR.
09-FP06	ROUTE FIRE PROTECTION PIPING THROUGH HALLWAY TO JANITOR'S CLOSET. PIPE ROUTING IS SCHEMATIC. FIELD VERIFY EXACT PIPE ROUTING PRIOR TO INSTALLATION.
09-FP08	ROUTE FIRE PROTECTION PIPING TIGHT TO CEILING. DESIGN INTENT IS FOR ALL PIPING TO BE WALL-MOUNTED. FIELD VERIFY EXACT PIPE ROUTING PRIOR TO INSTALLATION. COORDINATE ANY REQUIRED CONDUIT RELOCATION WITH FINAL ROUTING. OFFSET PIPING OVER DOORWAYS AND WALKWAYS AS REQUIRED TO MAINTAIN CLEAR OPENINGS.
09-FP09	ROUTE BUILDING FIRE PROTECTION MAIN INTO BASEMENT BEFORE ROUTING INTO BUILDING. REFER TO SHEET 09-FP100 FOR CONTINUATION.

03 ADD

NOTE:

BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.



B6 FIRST FLOOR FIRE PROTECTION PLAN

1/8" = 1'-0"

SHIVE-HATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

9-LINDEN A/B

Iowa Department of Administrative Services
1251 334th St, Woodward, IA 50276

ADD 03	06/02/2026	ADD-003	

DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

FIRST FLOOR FIRE PROTECTION PLAN

09-FP101

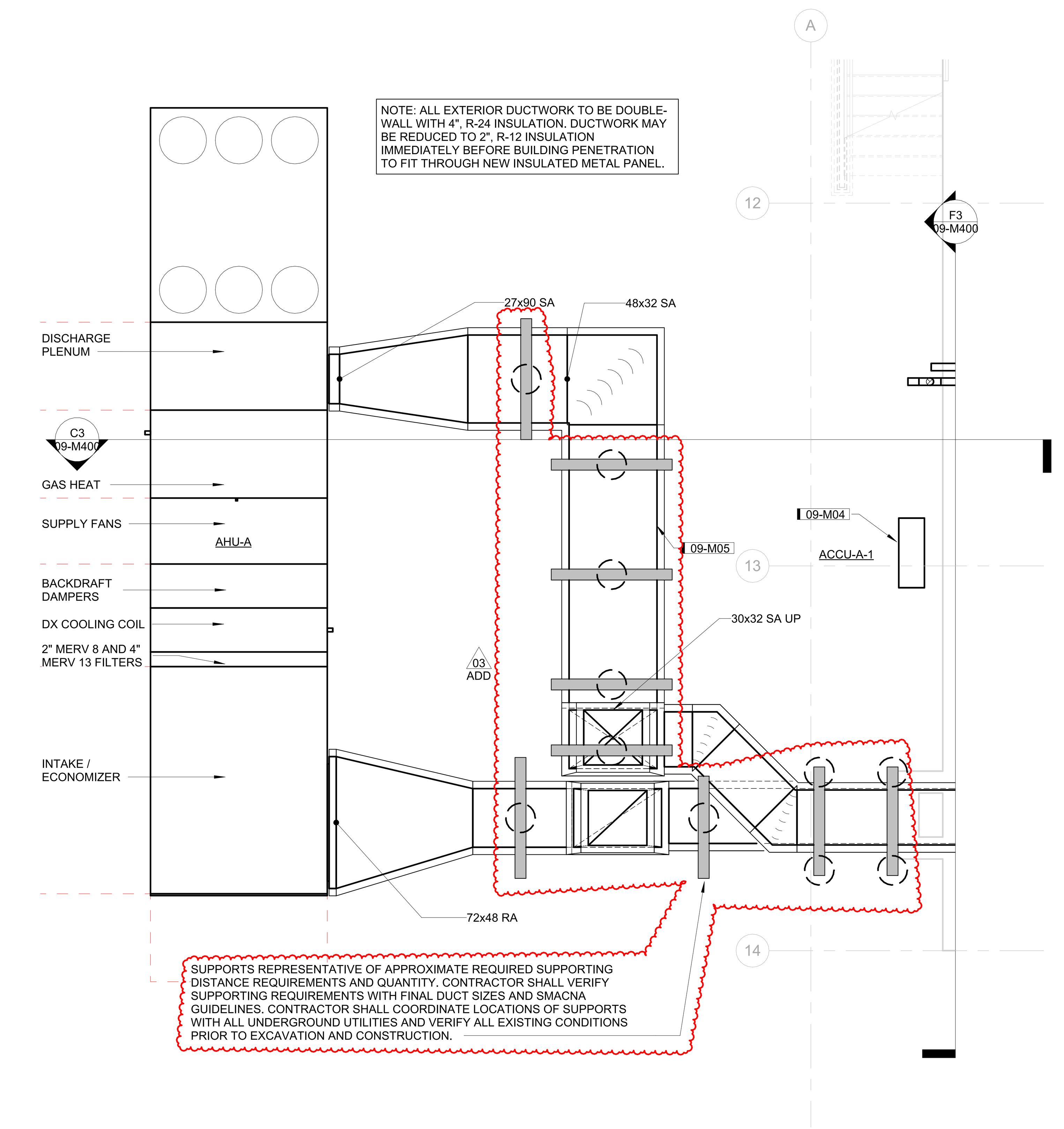
Autodesk Revit 2022

NOTE:

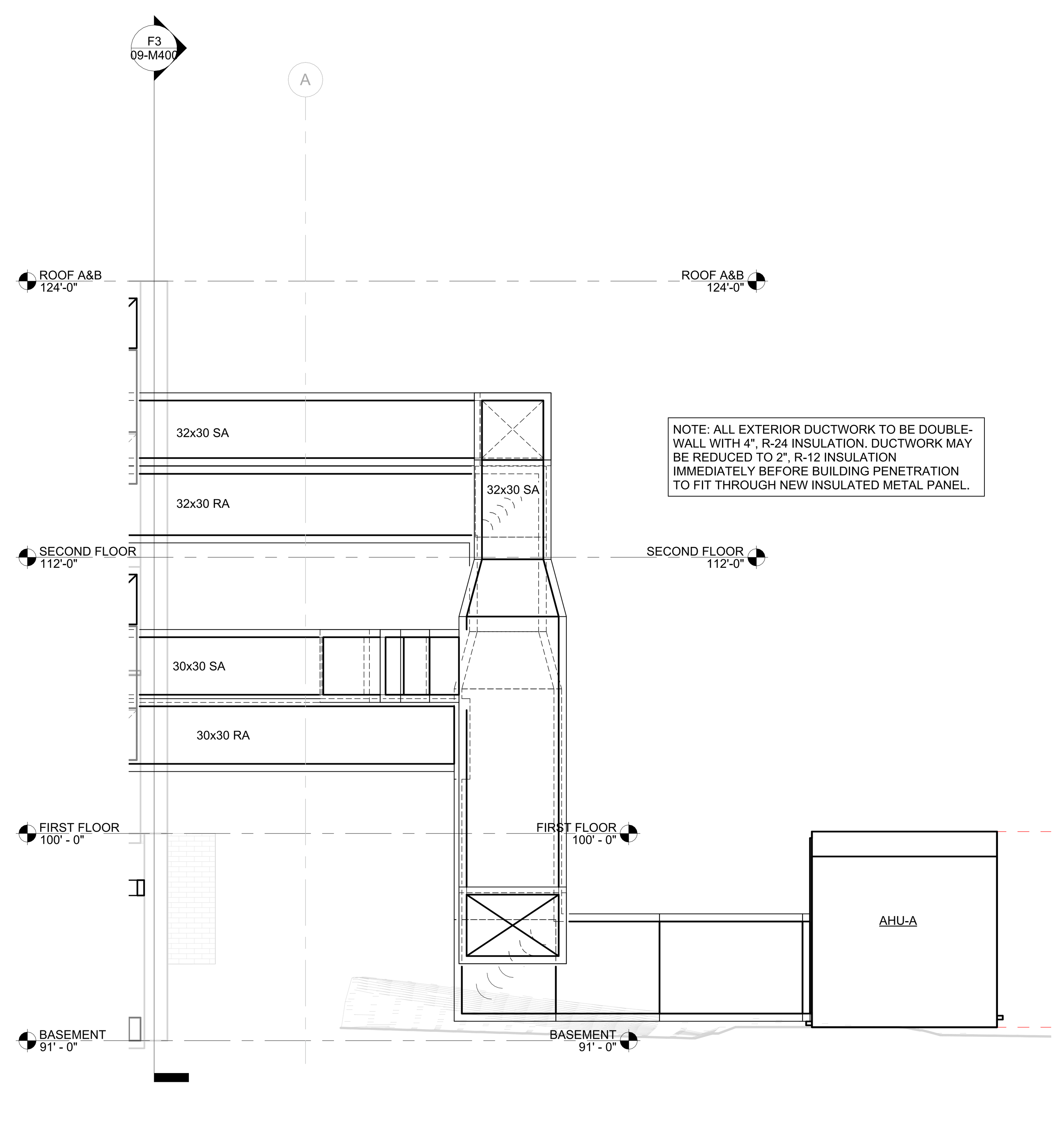
BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.

KEYNOTES

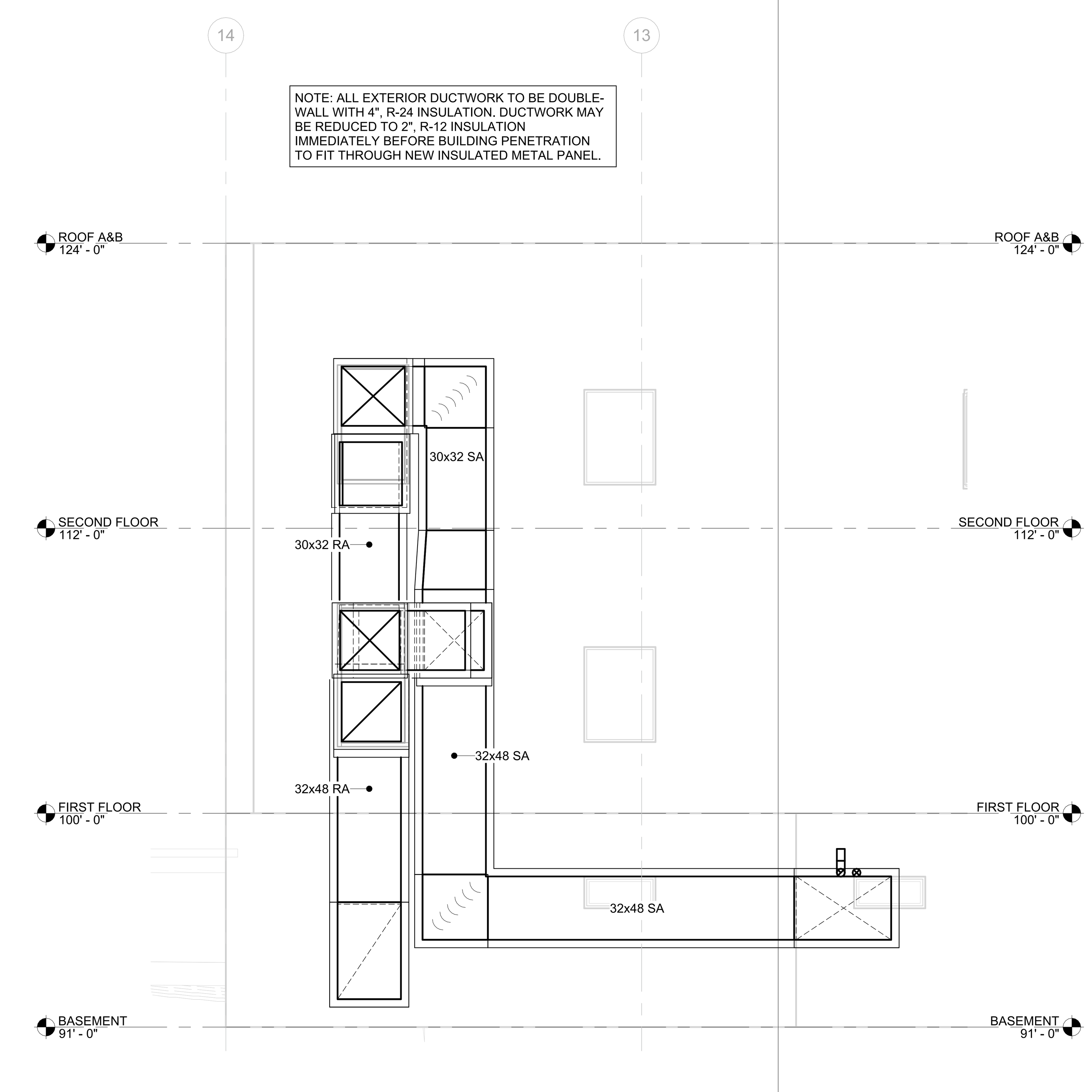
KEY	NOTE
09-M04	ACCU TO BE WALL MOUNTED PER MANUFACTURER'S INSTRUCTIONS WITH MANUFACTURER PROVIDED MOUNTING BRACKETS.
09-M05	EXTERIOR DUCTWORK TO BE ROUTED ALONG GROUND TO BUILDING RISER LOCATION. REFER TO DETAIL E6 ON SHEET M500 FOR DUCT SUPPORT DETAIL.



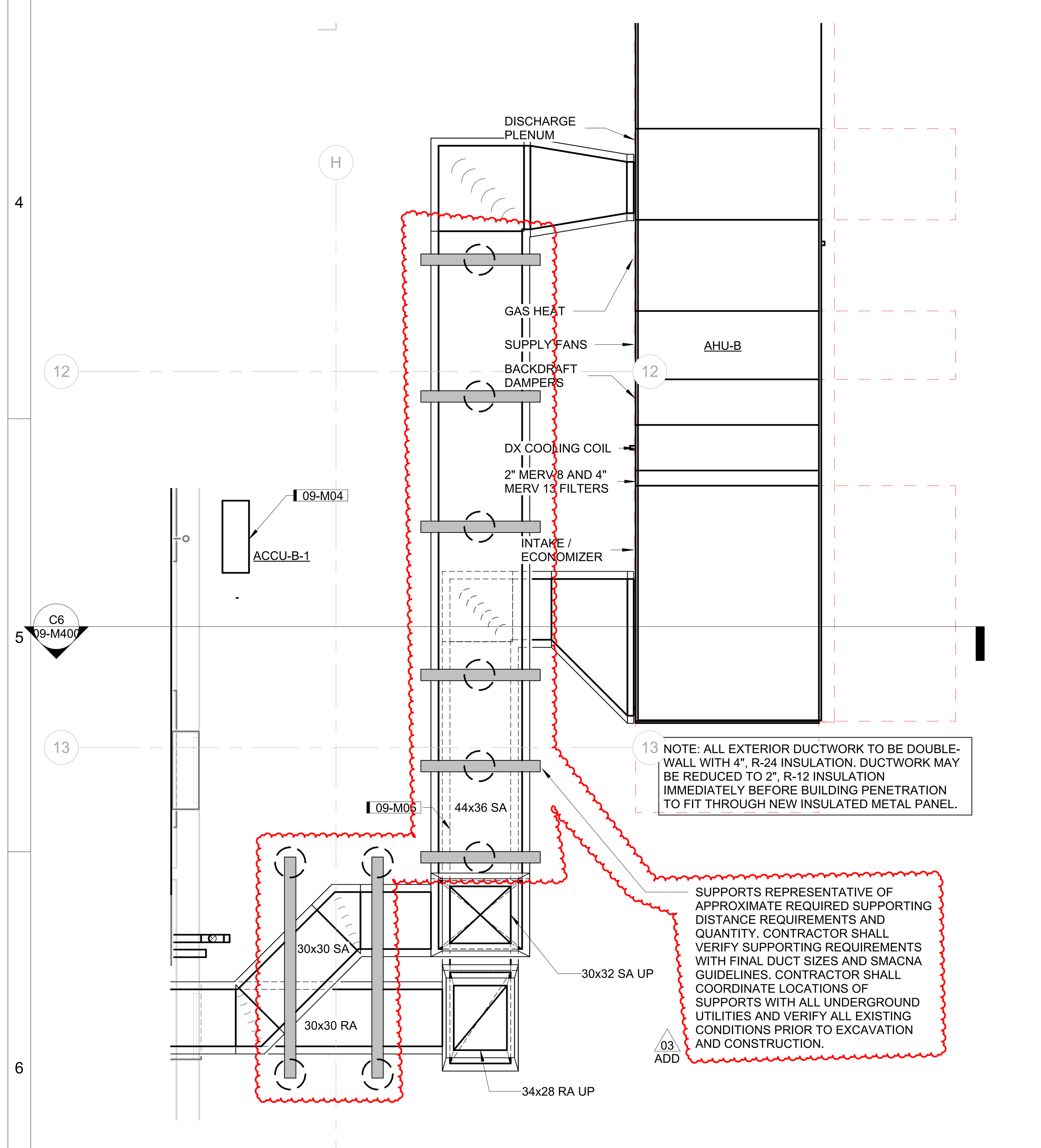
A3 BUILDING A AHU MECHANICAL PLAN
1/4" = 1'-0"



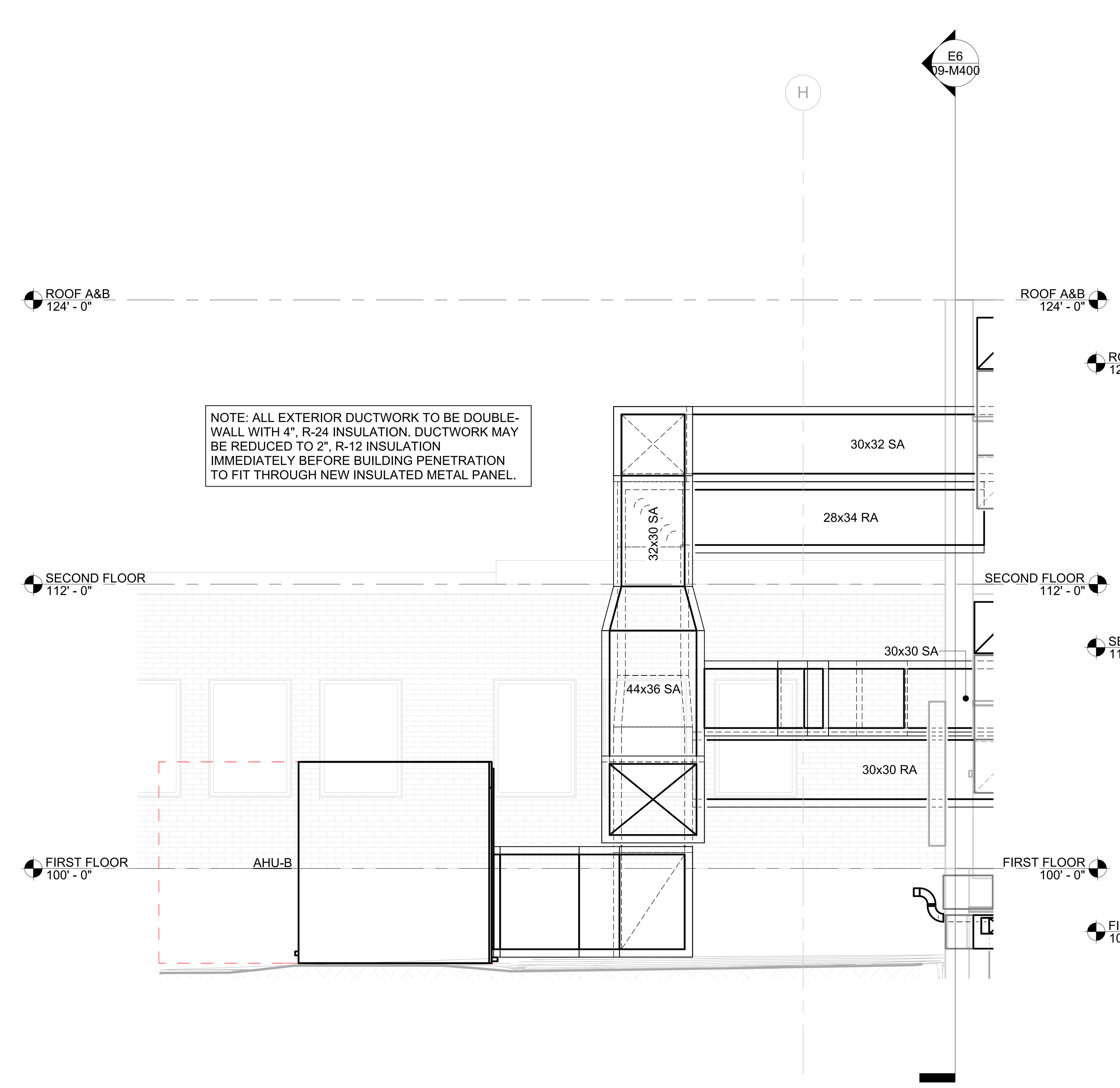
C3 BUILDING A AHU DUCT RISER & WALL PENETRATION PLAN
1/4" = 1'-0"



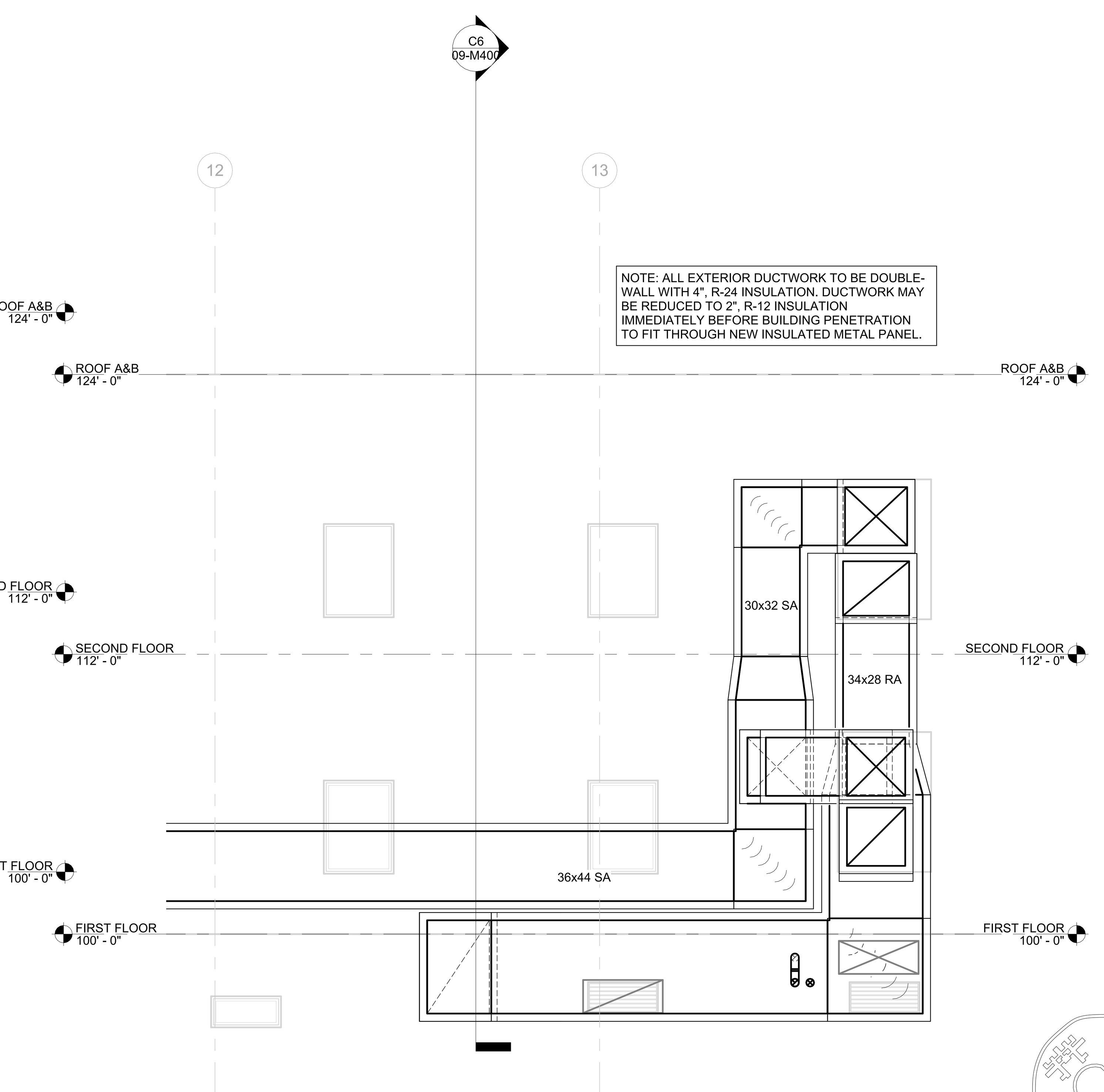
F3 BUILDING A AHU DUCT CONNECTION PLAN
1/4" = 1'-0"



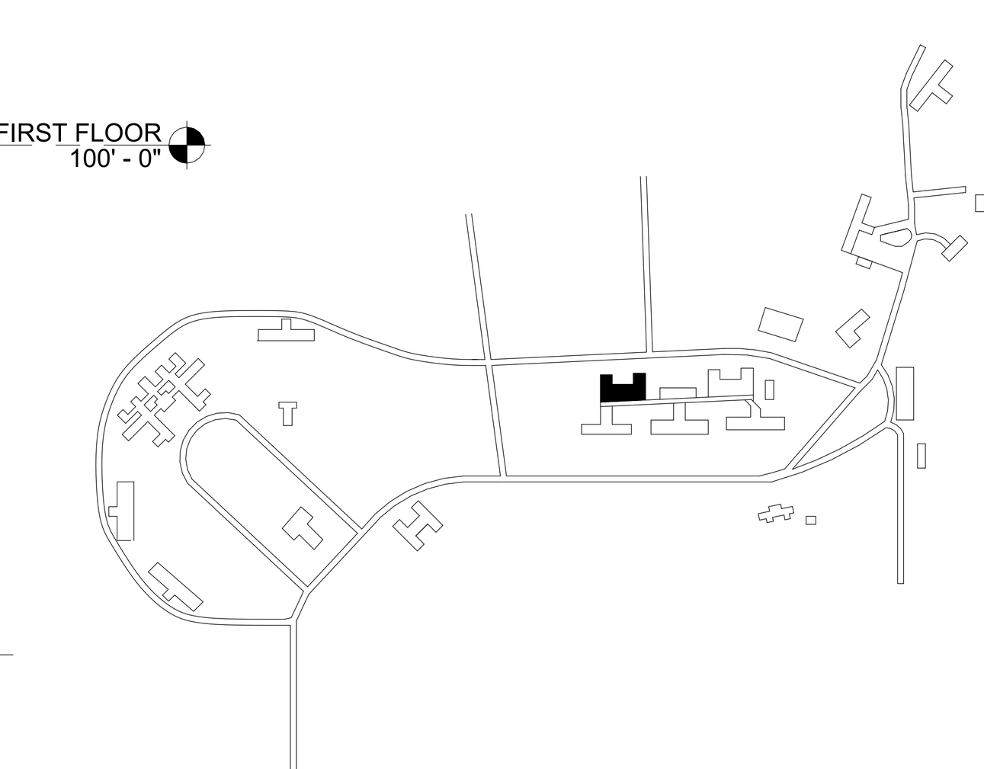
A6 BUILDING B AHU MECHANICAL PLAN
1/4" = 1'-0"



C6 BUILDING B AHU DUCT RISER & WALL PENETRATION PLAN
1/4" = 1'-0"



E6 BUILDING B AHU DUCT CONNECTION PLAN
1/4" = 1'-0"



SHIVEHATTERY
ARCHITECTURE + ENGINEERING

4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)
9-LINDEN A/B

Iowa Department of Administrative Services
1251 334th St, Woodward, IA 50276

ADD 03	06/02/2026	ADD-003	

DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

BUILDING A & B ENLARGED AHU PLANS

09-M400

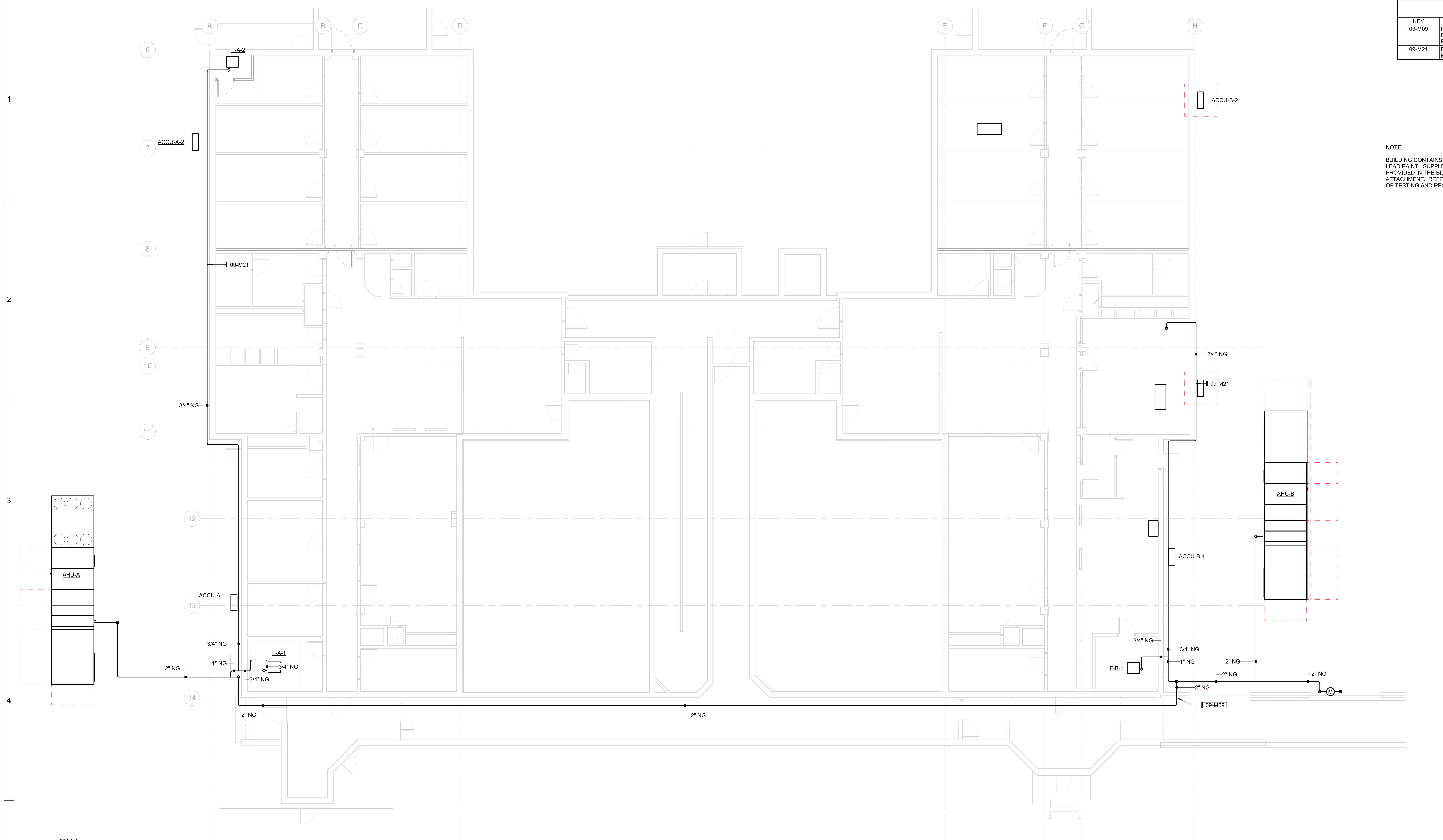
Autodesk Revit 2022

KEYNOTES

KEY	NOTE
09-M09	ROUTE NATURAL GAS PIPING UP TO CORRIDOR ROOF. ROUTE PIPING ON CORRIDOR ROOF TO SERVE EQUIPMENT IN ACADEMY A.
09-M21	ROUTE NATURAL GAS PIPING ALONG EXTERIOR OF BUILDING.

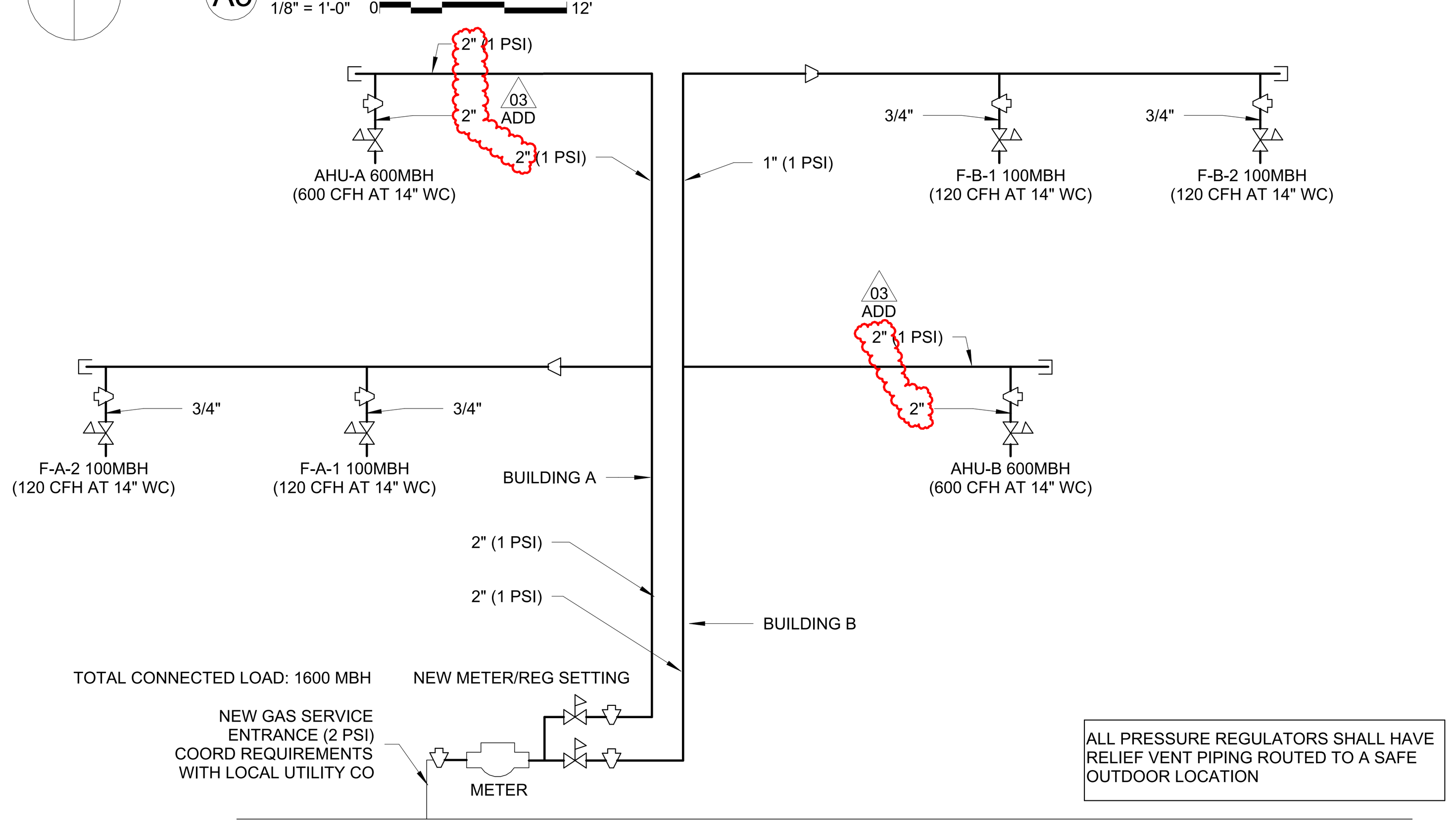
NOTE:

BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.



A5 NATURAL GAS PLAN

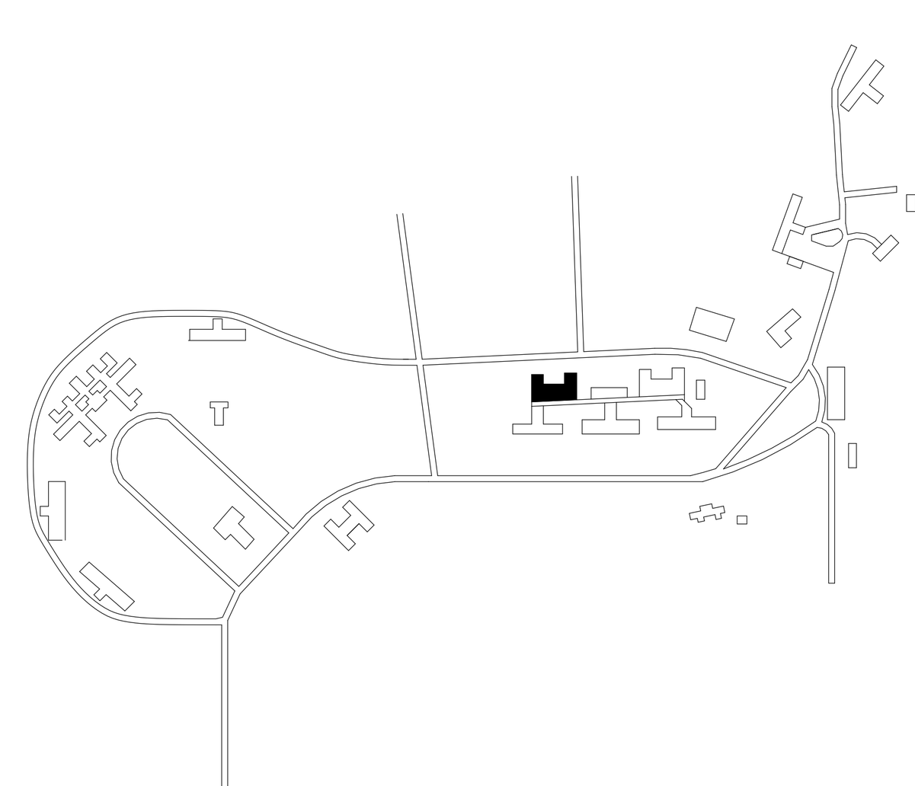
1/8" = 1'-0"



ALL PRESSURE REGULATORS SHALL HAVE RELIEF VENT PIPING ROUTED TO A SAFE OUTDOOR LOCATION

A6 Gas Piping Schematic

NOT TO SCALE



SHIVE-HATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

9-LINDEN A/B

Iowa Department of Administrative Services
1251 334th St, Woodward, IA 50276

ADD 03	06/02/2026	ADD-003

DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

BUILDING A & B NATURAL GAS PLAN

09-M402

Autodesk Revit 2022

UNIT HEATER SCHEDULE - ELECTRIC

REMARKS:
1. OR ENGINEER APPROVED EQUIVALENT
2. TO BE INSTALLED WITH MANUFACTURER'S SPECIFIED WALL MOUNTING BRACKETS
3. UNIT SHALL HAVE MANUFACTURER'S INTEGRAL TAMPER-PROOF THERMOSTAT WITH DDC INTEGRATION CAPABILITIES.
4. UNIT SHALL HAVE MANUFACTURER'S VANDAL-PROOF COVER.
5. ALL HEATERS SHALL HAVE TWO-STAGE HEAT.
6. UNIT HEATERS SHALL BE PROVIDED WITH FACTORY MOUNTED DISCONNECT SWITCH.

MARK	AREA SERVED	CFM	ELECTRICAL DATA				DESIGN BASIS
			KW	VOLTS	PHASE	FLA	
EUH-A-1-1	STAIRWELL 142	500	4	480	3	6	BERKO CUH935
EUH-A-1-2	CORRIDOR 121	500	4	480	3	6	BERKO CUH935
EUH-A-1-3	STAIRWELL 111	500	4	480	3	6	BERKO CUH935
EUH-A-1-4	VESTIBULE 120	500	4	480	3	6	BERKO CUH935
EUH-A-1-5	VESTIBULE 120	500	4	480	3	6	BERKO CUH935
EUH-A-2-1	STAIRWELL 143	500	4	480	3	6	BERKO CUH935
EUH-A-2-2	CORRIDOR 220	500	4	480	3	6	BERKO CUH935
EUH-A-2-3	STAIRWELL 205	500	6	480	3	8	BERKO CUH935
EUH-A-B-1	CORRIDOR B17	500	4	480	3	6	BERKO CUH935
EUH-A-B-3	SPACE 97	500	5	480	3	7	BERKO CUH935
EUH-AB-1	TUNNEL 123	1000	8	480	3	11	BERKO CUH945
EUH-AB-2	TUNNEL 123	1000	8	480	3	11	BERKO CUH945
EUH-AB-3	TUNNEL 123	1000	8	480	3	11	BERKO CUH945
EUH-AB-ST1	STEAM TUNNEL	1000	8	480	3	11	BERKO CUH945
EUH-AB-ST2	STEAM TUNNEL	1000	8	480	3	11	BERKO CUH945
EUH-B-1-1	STAIRWELL 11	500	4	480	3	6	BERKO CUH935
EUH-B-1-2	CORRIDOR 121	500	4	480	3	6	BERKO CUH935
EUH-B-1-3	STAIRWELL 12	500	4	480	3	6	BERKO CUH935
EUH-B-1-4	SPACE 103	500	4	480	3	6	BERKO CUH935
EUH-B-2-1	STAIRWELL 144	500	4	480	3	6	BERKO CUH935
EUH-B-2-2	CORRIDOR 220	500	4	480	3	6	BERKO CUH935
EUH-B-2-3	STAIRWELL 16	500	4	480	3	6	BERKO CUH935
EUH-B-2-4	RAMP 215	500	4	480	3	6	BERKO CUH935
EUH-B-B-1	CORRIDOR B17	500	4	480	3	6	BERKO CUH935

VRF INDOOR UNIT SCHEDULE

REMARKS:
1. INDOOR UNIT SHALL MAINTAIN SCHEDULED CAPACITY REGARDLESS OF OUTDOOR AIR TEMPERATURE.
2. DISCONNECT SWITCH SHALL BE PROVIDED AND INSTALLED BY E.C.
3. PROVIDE WITH INTEGRAL CONDENSATE PUMP.

MARK	CFM	ESP (IN WC)	COOLING DATA	HEATING DATA	ELECTRICAL DATA				DESIGN BASIS	APPLICABLE REMARKS
			TOTAL MBH	OUTPUT MBH	VOLTS	PHASE	MCA	MOCP		
HP-B-1	795	0.8	36	40	208	1	3	15	DAIKIN FBA36	
HP-B-2	795	0.8	36	40	208	1	3	15	DAIKIN FBA36	

ELECTRIC VAV BOX SCHEDULE

REMARKS:
1. OR ENGINEER PRE-APPROVED EQUIVALENT
2. PROVIDE WITH FACTORY INSTALLED DOOR INTERLOCK DISCONNECT SWITCH.
3. REFER TO PLANS FOR CONTROL BOX ORIENTATION.
4. MAXIMUM BOX HEIGHT INCLUDING CONTROL BOX NOT TO EXCEED 18"

MARK	UNIT SIZE	CFM			MAX NC	HEATING COIL DATA	AIR TEMPERATURE		ELECTRICAL DATA					DESIGN BASIS	REMARKS
		COOLING MAX	MIN CFM	HEATING MAX		APD (IN)	EAT °F	LAT °F	VOLTS	PHASE	KW	MOP	MCA		
VAV-A-1W	16	2160	1390	1900	24	0.1	60	95	480	3	21	35 A	31.6 A	TITUS DESV	1,2,3
VAV-A-2W	16	2810	1365	2810	22	0.07	60	88	480	3	25	40 A	37.6 A	TITUS DESV	1,2,3
VAV-A-101	12	890	710	890	22	0.06	60	92	480	3	9	15 A	13.5 A	TITUS DESV	1,2,3,4
VAV-A-112	14	1540	370	1400	21	0.1	60	94	480	3	15	25 A	22.6 A	TITUS DESV	1,2,3,4
VAV-A-116	14	2310	850	1900	23	0.16	60	95	480	3	21	35 A	31.6 A	TITUS DESV	1,2,3,4
VAV-A-209	12	1250	700	1100	24	0.1 (03 ADD)	60	95	480	3	12	20 A	18 A	TITUS DESV	1,2,3,4
VAV-A-214	14	2335	985	2100	24	0.1	60	95	480	3	23	35 A	34.6 A	TITUS DESV	1,2,3,4
VAV-A-216	14	1540	370	1400	21	0.1	60	94	480	3	15	25 A	22.6 A	TITUS DESV	1,2,3,4
VAV-B-1E	16	1915	1420	1915	17	0.09	60	93	480	3	20	35 A	30.1 A	TITUS DESV	1,2,3
VAV-B-2E	16	2375	1295	2100	21	0.12	60	95	480	3	23	35 A	34.6 A	TITUS DESV	1,2,3
VAV-B-126	14	2040	730	1850	23	0.1	60	94	480	3	20	35 A	30.1 A	TITUS DESV	1,2,3,4
VAV-B-131	14	1760	370	1600	21	0.1	60	94	480	3	17	30 A	25.6 A	TITUS DESV	1,2,3,4
VAV-B-141	12	890	690	790	22	0.1	60	94	480	3	8.5	15 A	12.8 A	TITUS DESV	1,2,3,4
VAV-B-228	14	2365	730	2100	24	0.1	60	95	480	3	23	35 A	34.6 A	TITUS DESV	1,2,3,4
VAV-B-229	14	2040	370	1850	21	0.1 (03 ADD)	60	95	480	3	20	35 A	30.1 A	TITUS DESV	1,2,3,4
VAV-B-239	12	1250	695	1100	24	0.1	60	95	480	3	12	20 A	18 A	TITUS DESV	1,2,3,4

VRF AIR COOLED CONDENSING UNIT SCHEDULE

REMARKS:
1. PROVIDE SYSTEM WITH INTEGRAL DRAIN PAN HEATER VIA HOT GAS PIPING. IF ELECTRICAL PAN HEATER IS PROVIDED IN LIEU OF HOT GAS ALL ELECTRICAL CONNECTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST.
2. VRF SYSTEM SHALL MAINTAIN CONTINUOUS HEATING DURING DEFROST OPERATION. REVERSE CYCLE DEFROST OPERATION SHALL NOT BE PERMITTED.
3. VRF SYSTEM SHALL MAINTAIN CONTINUOUS HEATING DURING OIL RETURN OPERATION.
4. PROVIDE UNIT WITH SNOW GUARDS.
5. DISCONNECT SWITCH SHALL BE PROVIDED AND INSTALLED BY E.C.
6. CIRCUIT REFRIGERANT VOLUME SHALL NOT EXCEED 20 LBS.

MARK	SYSTEM SERVED	CAPACITY (MBH)	HEATING CAPACITY (MBH)	AMBIENT TEMPERATURE (°F)		# OF COMPRESSORS	SEER	EER2	ELECTRICAL DATA				REFRIGERANT		CONSTRAINTS (LESS CURB)	DESIGN BASIS
				DESIGN	MIN				VOLTS	PHASE	MCA	MOCP	TYPE	LBS	OPERATING WEIGHT (LBS)	
ACCU-B-2	HP-B-1	36	40	95	0	1	16.9	11.8	208	1	34.6	40	R-32	8	234	DAIKIN RZA36AACJU
ACCU-B-3	HP-B-2	36	40	95	0	1	16.9	11.8	208	1	34.6	40	R-32	8	234	DAIKIN RZA36AACJU

ENERGY RECOVERY VENTILATOR SCHEDULE

REMARKS:
1. UNIT SHALL HAVE FACTORY-MOUNTED DISCONNECT SWITCH.
2. UNIT SHALL HAVE MERV 8 FILTERS ON OA AND RA INLETS.

MARK	SUPPLY FAN DATA				EXHAUST FAN DATA				SUMMER OPERATION								WINTER OPERATION								ELECTRICAL DATA				DESIGN BASIS
									OUTSIDE AIR EAT (°F)		EXHAUST AIR EAT (°F)		TEMPERED AIR LAT (°F)				OUTDOOR AIR EAT (°F)		EXHAUST AIR EAT (°F)		TEMPERED AIR LAT (°F)								
	CFM	ESP (IN WC)	BHP	HP	CFM	ESP (IN WC)	BHP	HP	DB	WB	DB	WB	DB	WB	EFFECTIVENESS	TOTAL REC MBH	DB	WB	DB	WB	DB	WB	EFFECTIVENESS	TOTAL REC MBH	VOLTS	PHASE	MCA	MOCP	
ERV-B-1	400	0.7	0.16	.75	400	0.7	0.22	.75	95	76	75	62	78	65	81.5	20.8	-10	-11	72	55	57	46	82	36	120	1	21	25	GREENHECK MINIVENT-750-VG

DIFFUSERS REGISTERS AND GRILLES SCHEDULE

REMARKS:
1. COORDINATE MOUNTING STYLE WITH MOUNTING SURFACE.

MARK	MATERIAL	DESCRIPTION	FACE SIZE	FACTORY FINISH	DESIGN BASIS
A	ALUMINUM	SQUARE PLAQUE	24"x24"	WHITE	TITUS OMNI
B	ALUMINUM	1/2" X 1/2" X 1/2" EGGCRATE	SEE PLANS	WHITE	TITUS 50F
C	ALUMINUM	1/2" SPACING, 45° DEFLECTION	24"x12"	WHITE	TITUS 4FL
D	ALUMINUM	AEROBLADE SUPPLY DIFFUSER WITH 3/4" BLADE SPACING	SEE PLANS	WHITE	TITUS 272FL
E	ALUMINUM	3/4" SPACING SHORT BLADE RETURN GRILLE	SEE PLANS	WHITE	TITUS 350RL
F	ALUMINUM	LINEAR SLOT DIFFUSER, 1" 1-SLOT, HIGHTHROW, SURFACE MOUNT, BORDER TYPE 22	SEE PLANS	WHITE	TITUS FL-10

AIR COOLED CONDENSING UNIT SCHEDULE

REMARKS:
1. OR ENGINEER APPROVED EQUIVALENT.
2. TO BE WALL MOUNTED WITH MANUFACTURER APPROVED MOUNTING BRACKETS.
3. DISCONNECT TO BE PROVIDED BY ELECTRICAL CONTRACTOR.

MARK	SYSTEM SERVED	CAPACITY (MBH)	COND AMBIENT AIR TEMP (°F)	MINIMUM OPERATING AMBIENT TEMPERATURE	NUMBER OF COMPRESSORS	SEER	EER	ELECTRICAL DATA			REFRIGERANT TYPE	DESIGN BASIS
								VOLTS	PHASE	MCA		
ACCU-A-1	F-A-1	53.5	95	0	1	16.2	9	208	1	37.5	R-32	DAIKIN DC6VSS6010
ACCU-A-2	F-A-2	53.5	95	0	1	16.2	9	208	1	37.5	R-32	DAIKIN DC6VSS6010
ACCU-B-1	F-B-1	53.5	95	0	1	16.2	9	208	1	37.5	R-32	DAIKIN DC6VSS6010

FURNACE SCHEDULE - GAS

REMARKS:
1. OR ENGINEER PRE-APPROVED EQUIVALENT.
2. LITTLE GIANT CONDENSATE PUMP TO BE PROVIDED AND ROUTED BY MECHANICAL CONTRACTOR.
3. MOTORIZED OA DAMPER TO BE PROVIDED AND INSTALLED BY CONTROLS CONTRACTOR. COORDINATE ALL ACTUATOR REQUIREMENTS WITH CONTROLS CONTRACTOR.
4. FURNACE DISCONNECT SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR.

MARK	AREA SERVED	SYSTEM SERVED	OA CFM	CFM	ESP (IN WC)	AIRFLOW DIRECTION	COOLING COIL DATA						HEATING DATA					ELECTRICAL DATA			DESIGN BASIS
								EAT (°F)		LAT (°F)											
							TOTAL MBH	DB	WB	DB	WB	MODEL	EAT (°F)	LAT (°F)	INPUT MBH	MINIMUM GAS PRESSURE (IN. WC.)	AFUE	HP	VOLTS	PHASE	
F-A-1	SOUTH BUILDING A BASEMENT	ACCU-A-1	200	1950	1	UPFLOW	60	80	67	58	58	CAPEA6030D3	55	100	100	14	96	1	120	1	DAIKIN DR96TC1005DN
F-A-2	NORTH BUILDING A BASEMENT	ACCU-A-2	200	1950	1	UPFLOW	60	80	67	58	58	CAPEA6030D3	55	100	100	14	96	1	120	1	DAIKIN DR96TC1005DN
F-B-1	SOUTH BUILDING B BASEMENT	ACCU-B-1	200	1950	1	UPFLOW	60	80	67	58	58	CAPEA6030D3	55	100	100	14	96	1	120	1	DAIKIN DR96TC1005DN

AIR HANDLING UNIT SCHEDULE

REMARKS:
1. OR ENGINEER PRE-APPROVED EQUIVALENT
2. UNIT SHALL HAVE SINGLE POINT POWER CONNECTION, FACTORY-POWERED CONVENIENCE OUTLET, AND FACTORY MOUNTED DISCONNECT SWITCH.
3. UNIT SHALL HAVE HOT GAS REHEAT COIL
4. COOLING COIL SHALL HAVE STAINLESS STEEL DRAIN PAN.
5. UNIT SHALL HAVE 2" MERV 8 PRE-FILTER WITH DIRTY FILTER SWITCH INSTALLED AT EACH FILTER SECTION.
6. LEAD COMPRESSOR ON EACH AHU SHALL BE VARIABLE SPEED.
7. UNIT SHALL HAVE SMOKE DETECTORS PROVIDED AND INSTALLED IN THE SUPPLY AND RETURN DUCTS BY THE E.C. AND INTEGRATED INTO THE DDC AND FIRE ALARM SYSTEM.
8. MAXIMUM UNIT DIMENSIONS SHALL BE 96.5" W X 429" L X 102" H.
9. AHU TO HAVE ACCESS DOORS ON BOTH SIDES OF THE AHU.

MARK	AREA SERVED	SUPPLY CFM	MINIMUM OA (%)	SUPPLY FAN DATA										RELIEF FAN DATA										DESIGN BASIS
						STATIC PRESSURE			SUPPLY FAN ELECTRICAL DATA							STATIC PRESSURE			RELIEF FAN ELECTRICAL DATA					
				SUPPLY FAN CFM	RPM	TOTAL (T.S.P.)	EXTERNAL (E.S.P.)	TYPE	BHP (TOTAL)	HP (EACH)	VOLTS	PHASE	SUPPLY FAN ARRAY	RELIEF FAN CFM	RPM	TSP	ESP	TYPE	BHP (TOTAL)	HP (EACH)	VOLTS	PHASE	RELIEF FAN ARRAY	
AHU-A	BUILDING A	15000	20	15000	1708	3.06	1.5	CENTRIFUGAL DIRECT DRIVE ECM	12.3	5.1	460	3	2X2 (4)	12500	2049	2.4	1.5	CENTRIFUGAL DIRECT DRIVE ECM	8.5	5	460	3	1X2 (2)	DAIKIN DPSA060
AHU-B	BUILDING B	15000	20	15000	1708	3.06	1.5	CENTRIFUGAL DIRECT DRIVE ECM	12.3	5.1	460	3	2X2 (4)	12500	2049	2.4	1.5	CENTRIFUGAL DIRECT DRIVE ECM	8.5	5	460	3	1X2 (2)	DAIKIN DPSA060

AIR HANDLING UNIT SCHEDULE (CONTINUED)

MARK	AREA SERVED	COOLING COIL								HOT GAS REHEAT				HEATING ELEMENT						ELECTRICAL DATA				DESIGN BASIS
		EAT (°F)		LAT (°F)														GAS						
		DB	WB	DB	WB	APD (IN WC)	REFRIGERANT TYPE	MBH	SENSIBLE MBH	MBH	EAT (°F)	LAT (°F)	APD (IN WC)	TYPE	EAT DB (°F)	LAT DB (°F)	APD (IN WC)	INPUT (MBH)	OUTPUT (MBH)	VOLTS	PHASE	MOCP	MCA	
AHU-A	BUILDING A	79	65.6	51	50.9	0.6	R-32	645	459	309	51	70	0.22	NG	45	75	0.19	600	486	460	3	150 A	130.4 A	DAIKIN DPSA060
AHU-B	BUILDING B	79	65.6	51	50.9	0.6	R-32	645	459	309	51	70	0.22	NG	45	75	0.19	600	486	460	3	150 A	130.4 A	DAIKIN DPSA060

SHIVE HATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

Iowa Department of Administrative Services
1251 334th St, Woodward, IA 50276

ADD 03	06/02/2026	ADD-003

DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

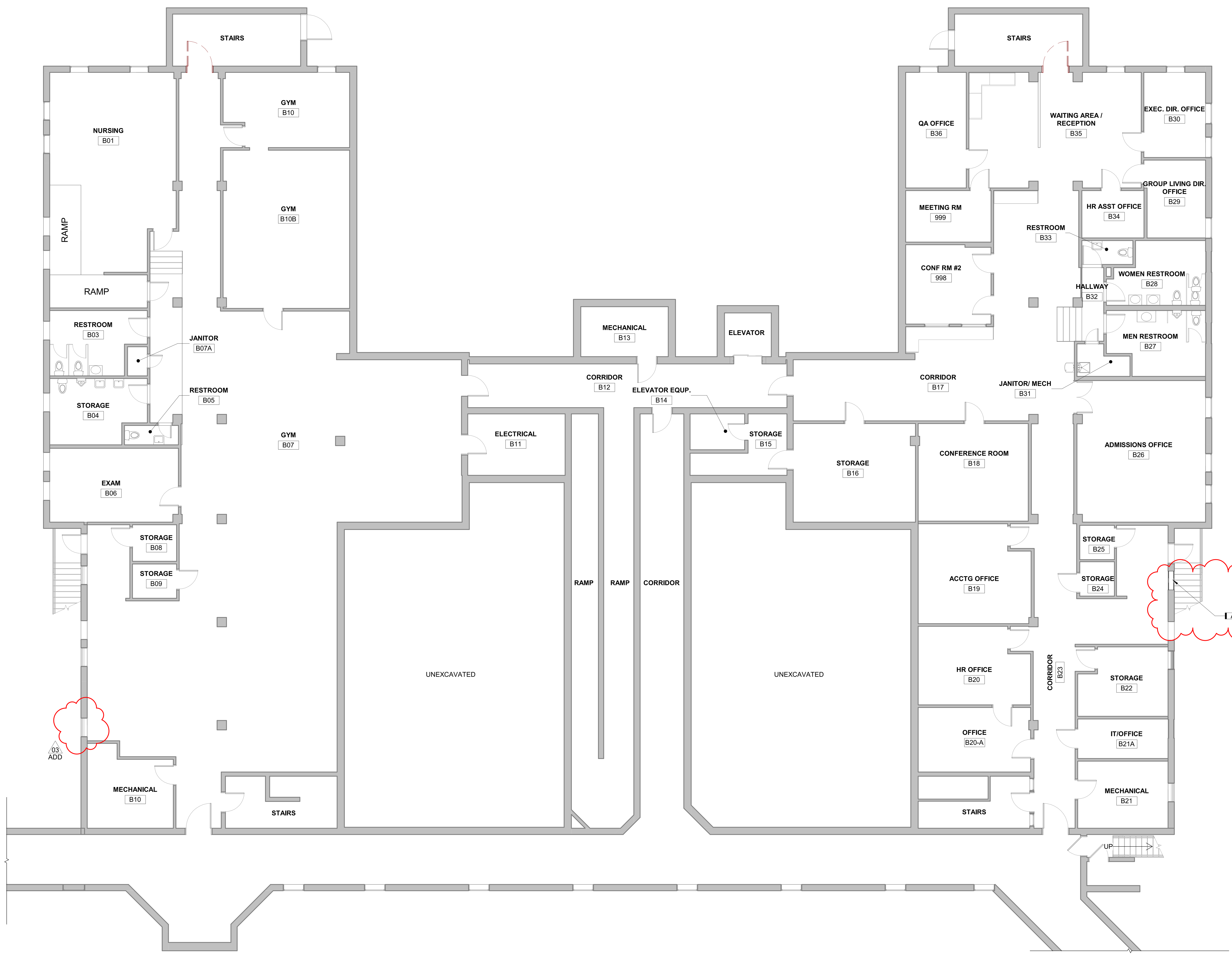
MECHANICAL SCHEDULES

09-M600

KEYNOTES

KEY	NOTE
AD11	REMOVE EXISTING PLYWOOD/WINDOW INFILL AND PREP OPENING FOR INSTALLATION OF NEW LOUVER - SEE MECHANICAL DRAWINGS

03 ADD



NORTH

A6 BASEMENT DEMOLITION PLAN - BUILDING C & D

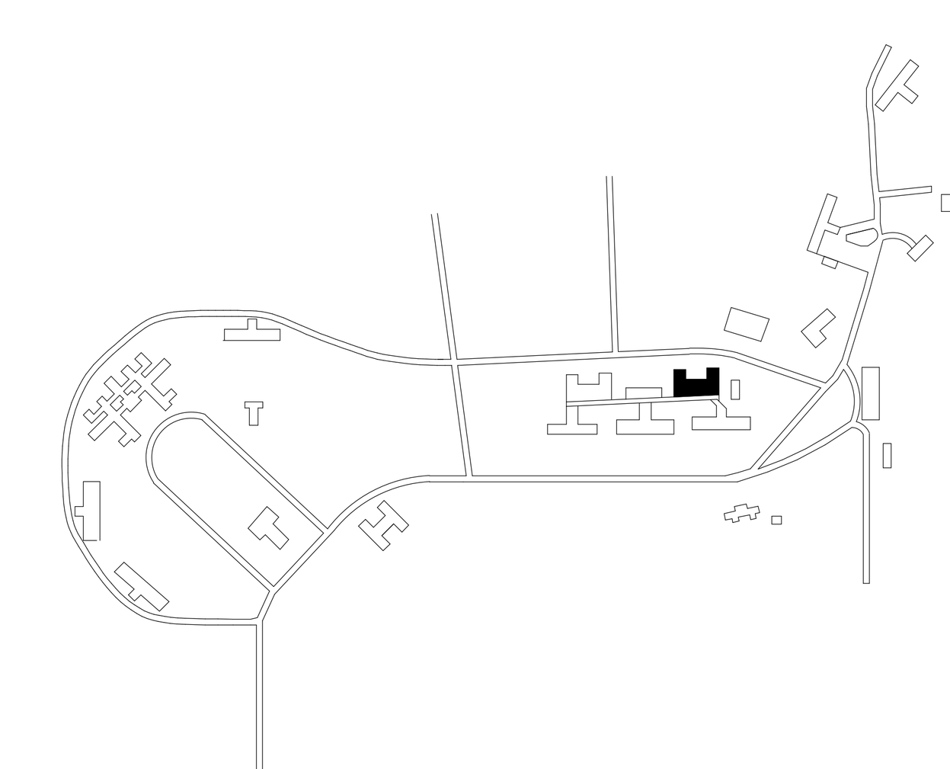
1/8" = 1'-0" 0' 12'

ARCHITECTURAL DEMOLITION NOTES

1. ARCHITECTURAL DEMOLITION RCP PLANS SHALL BE PRINTED IN COLOR.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF DEMOLITION WORK. NOTIFY ARCHITECT IN WRITING OF DISCREPANCIES BETWEEN WORK SHOWN IN THE DRAWINGS AND FIELD CONDITIONS ENCOUNTERED.
3. TO PROTECT OWNER AND CONTRACTOR, PHOTOGRAPHICALLY DOCUMENT EXISTING CONDITIONS TO REMAIN, PRIOR TO START OF DEMOLITION AND CONSTRUCTION ACTIVITIES. COPY ARCHITECT AND OWNER ON PHOTOGRAPHIC DOCUMENTATION.
4. OPEN FLAME EQUIPMENT IS NOT PERMITTED FOR REMOVAL OF EXISTING WORK WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER.
5. COORDINATE WITH OWNER ANY ITEMS TO BE SALVAGED.
6. PROTECT ANY REMAINING NON-FIXED FURNISHINGS AND EQUIPMENT DURING CONSTRUCTION.
7. MAINTAIN BUILDING IN A WEATHER-TIGHT CONDITION. DO NOT PERFORM WORK ON EXTERIOR OPENINGS THAT CANNOT BE COMPLETED OR MADE WEATHER-TIGHT WHEN INCLEMENT WEATHER IS POSSIBLE.
8. PROTECT ALL FINISHES (TO REMAIN) IN THE PROJECT AREA. COORDINATE WITH ARCHITECT AND OWNER PRIOR TO DEMOLITION.
9. ENSURE THAT DUST AND DEBRIS ARE PREVENTED FROM ENTERING THE EXISTING HVAC SYSTEM AND ADJOINING SPACES WITH TEMPORARY BARRIERS AS REQUIRED PER THE BUILDING.
10. ALL NEW AND EXISTING PENETRATIONS IN EXISTING INTERIOR AND EXTERIOR WALLS, FLOORS AND CEILING DECKS SHALL RECEIVE UL AND FACILITY APPROVED FIRE SEALANT MATERIALS TO MATCH RATING REQUIREMENT OF AREA BEING PENETRATED. FOR LOCATIONS AND EXTENTS OF NEW PENETRATIONS SEE MECHANICAL AND ELECTRICAL DRAWINGS.
11. COORDINATE WITH OTHER TRADES CUTTING AND PATCHING REQUIRED FOR DEMOLITION OR NEW CONSTRUCTION.
12. ANY DEMOLITION OR REMOVAL INDICATED IS SHOWN IN GENERAL TO PROVIDE THE EXTENT OF DEMOLITION AND IS NOT TO BE CONSIDERED AS A RECORD DRAWING OF EXISTING CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR IN FIELD VERIFICATION AND COORDINATION WITH THE ARCHITECT PRIOR TO COMMENCING WITH STATED WORK.
13. ALL CONSTRUCTION TO REMAIN WHICH IS AFFECTED BY DEMOLITION SHALL BE PATCHED, BE PROPERLY ALIGNED AND FINISHED SO AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIR. REPAIR OR REPLACE ANY EXISTING CONSTRUCTION, MATERIALS, OR EQUIPMENT DAMAGED DURING DEMOLITION TO LIKE NEW CONDITION.
14. THE CONTRACTOR IS TO RETURN SALVAGEABLE MATERIALS, INCLUDING BUT NOT LIMITED TO DOORS, FRAMES, HARDWARE, MARBLE, EQUIPMENT, AND LIGHTING FIXTURES TO THE OWNER AND STOCKPILE THEM IN AN APPROVED CONSTRUCTION AREA. DISPOSE OF THESE MATERIALS AFTER OWNER'S REVIEW AND APPROVAL.
15. BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.
16. TEMPORARILY REMOVE OR SUPPORT ELECTRICAL FIXTURES AND OTHER DEVICES AS NEEDED TO COMPLETE NEW WORK. REINSTALL ONCE MECHANICAL/ELECTRICAL WORK IS COMPLETE.

DEMOLITION PLAN SYMBOLS LEGEND

- EXISTING WALL PARTITIONS
- TEMPORARY WALL PARTITIONS
- DEMOLISHED WALL PARTITIONS
- EXISTING DOOR
- DEMOLISHED DOOR



SHIVEHATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

13-LINDEN C/D

IA DAS
Woodward, IA 50276

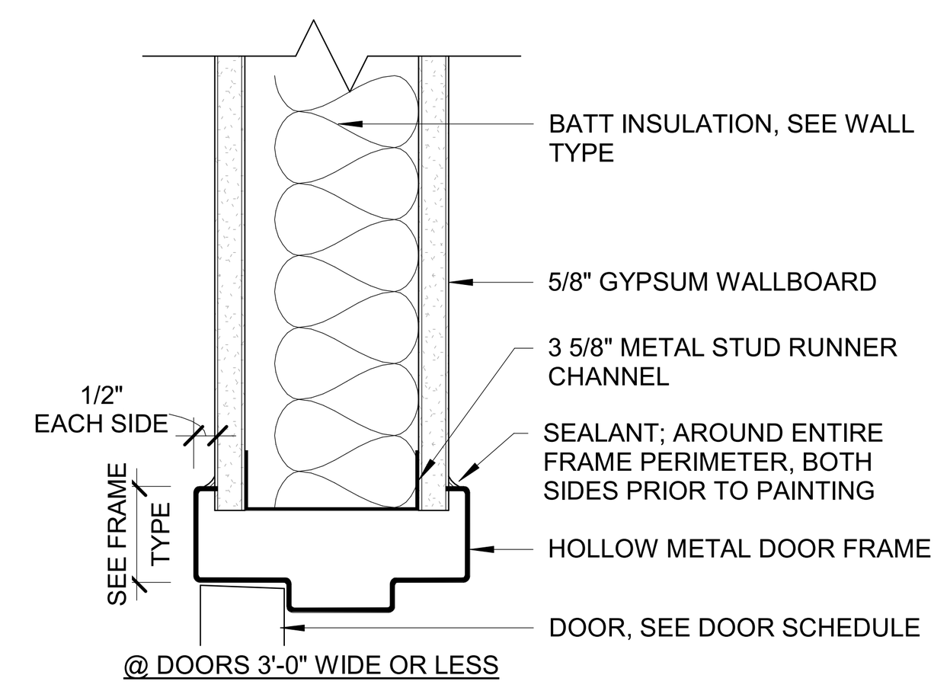
ADD	03	06/02/26	ADD-003

DRAWN BY	CRK
APPROVED BY	CLM
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

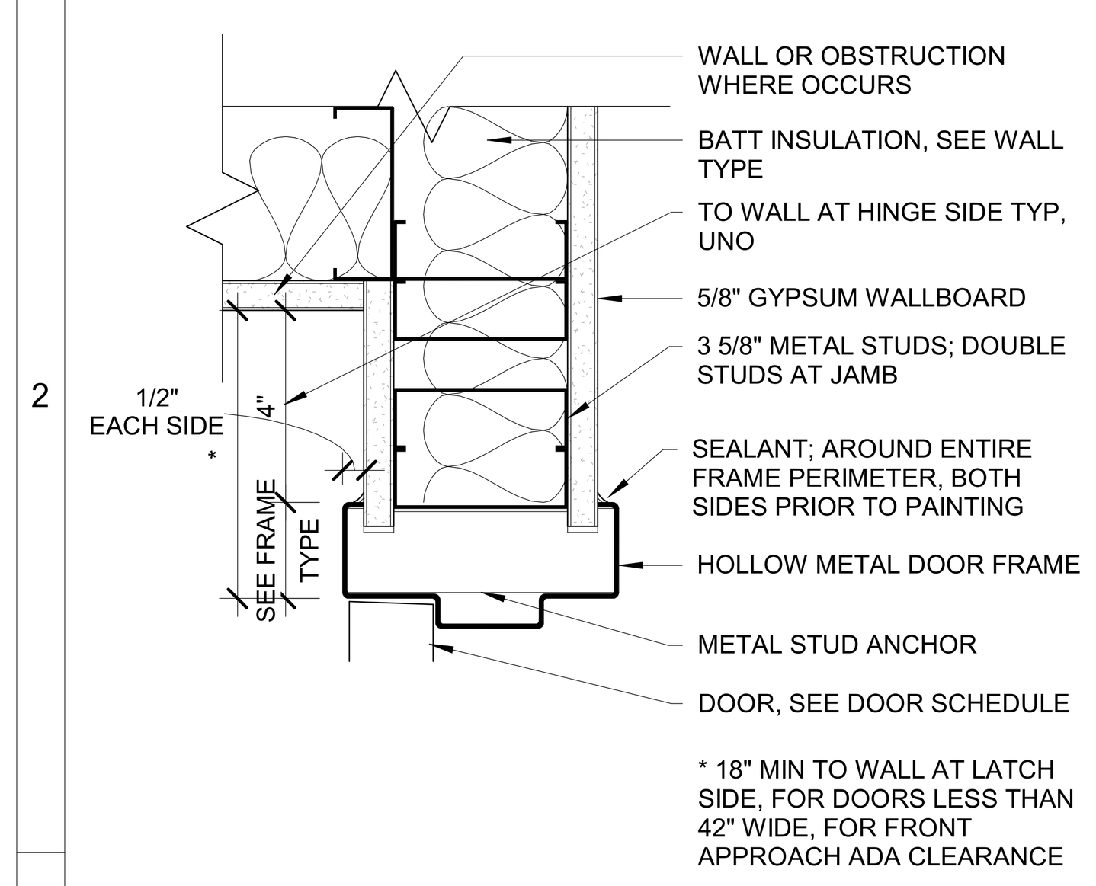
BASEMENT DEMOLITION PLAN - BUILDING C & D

13-AD00

Autodesk Revit 2022



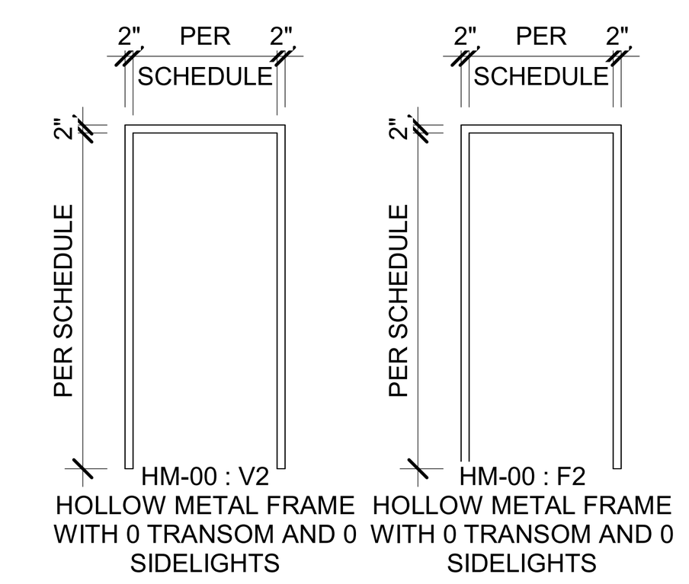
A1 HEAD - HM - METAL STUD
3" = 1'-0"



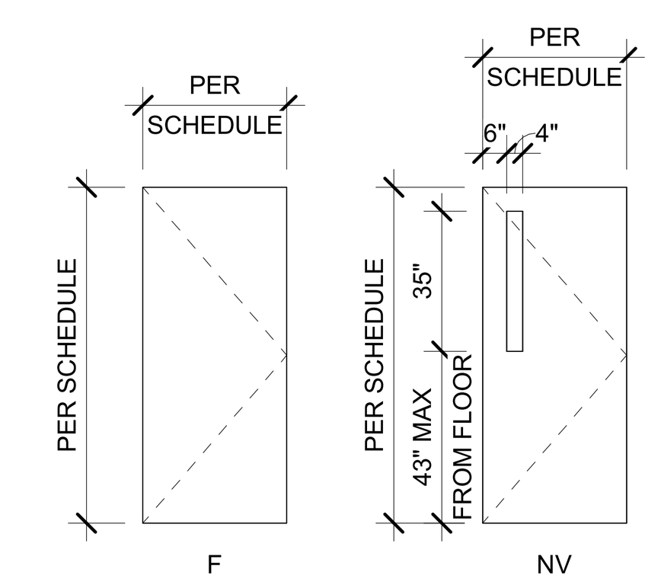
A3 JAMB - HM - METAL STUD
3" = 1'-0"

DOOR AND FRAME SCHEDULE - BUILDING C & D

MARK	ROOM NAME	FINISHED OPENING SIZE		LEAF				FRAME	DETAILS		HDWR	RATING	REMARKS
		WIDTH	HEIGHT	THICK	TYPE	MTRL	GLAZ	MTRL-TYPE	HEAD	JAMB			
13-101	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : V2	-	-	02	45 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
13-145	STAIRS	4' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : F2	-	-	03	60 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
13-146	STAIRS	4' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : F2	-	-	03	60 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
13-209	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : V2	-	-	02	45 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
13-241	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : V2	-	-	02	45 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
13-245	STAIRS	4' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : F2	-	-	03	60 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
13-246	STAIRS	4' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : F2	-	-	03	60 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
13-B01	NURSING	3' - 0"	6' - 8"	1 3/4"	F	HM	-	HM-00 : V2	A1/A100	A3/A100	01	-	9279.40
13-B45	STAIRS	4' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : F2	-	-	03	60 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
13-B46	STAIRS	4' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : F2	-	-	03	60 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH



C2 DOOR FRAME ELEVATIONS
1/4" = 1'-0"



D2 DOOR PANEL ELEVATIONS
1/4" = 1'-0"

DOOR HARDWARE GROUPS

GROUP 01

SINGLE MECHANICAL LOUVER DOOR.

3 EA.	HEAVY DUTY HINGES	TA795, 4-1/2"	US26D	MCK
1 EA.	STOREROOM LOCKSET	PROVIDED BY OWNER	-	-

GROUP 02

SINGLE, 45 MIN. FIRE RATED DOOR.

3 EA.	HEAVY DUTY HINGES	TA795, 4-1/2"	US26D	MCK
1 EA.	ELEC. MORTISE LOCKSET	PROVIDED BY OWNER	-	-
1 EA.	CLOSER	4040XP DEL EDA	AL	LCN
1 EA.	OVERHEAD STOP	599S	US26D	RO
1 EA.	KICKPLATE	8400 8" X 34"	US32D	IV
1 SET	SMOKE GASKET	PK52BL	BL	PE

GROUP 03

SINGLE, 60 MIN. FIRE RATED DOOR.

3 EA.	HEAVY DUTY HINGES	TA795, 4-1/2"	US26D	MCK
1 EA.	ELEC. MORTISE LOCKSET	PROVIDED BY OWNER	-	-
1 EA.	RIM EXIT DEVICE	8888-F	US32D	SA
1 EA.	CLOSER	4040XP DEL EDA	AL	LCN
1 EA.	OVERHEAD STOP	599S	US26D	RO
1 EA.	KICKPLATE	8400 8" X 34"	US32D	IV
1 SET	SMOKE GASKET	PK52BL	BL	PE

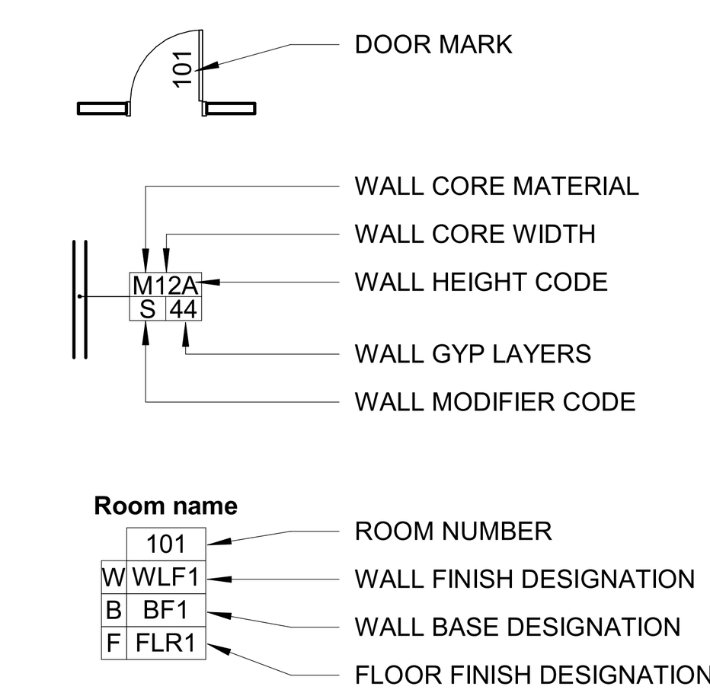
MANUFACTURER ABBREVIATIONS

IV - IVES
LCN - LCN CLOSERS
MCK - MCKINNEY
PE - PEMKO
RO - ROCKWOOD
SA - SARGENT

FLOOR PLAN NOTES

1. WATER-RESISTANT GYPSUM BOARD SHALL BE USED FOR STUD PARTITIONS IN TOILET ROOMS, JANITOR'S CLOSETS, FIRE SERVICE ROOMS, MECHANICAL ROOMS, AND ANY ADDITIONAL LOCATIONS DESIGNATED IN CONTRACT DOCUMENTS.
2. WHERE STRUCTURAL ELEMENTS INTERFERE WITH FIRE-RATED PARTITIONS, FRAME TOP OF WALL AROUND STRUCTURAL ELEMENT.
3. REFER TO DRAWINGS OF ALL TRADES FOR ADDITIONAL INFORMATION REGARDING ITEMS PENETRATING FLOORS, WALLS, AND CEILINGS.
4. ALL NEW PARTITIONS ARE DIMENSIONED TO FACE OF STUD, MASONRY, OR CONCRETE COMPONENT UNLESS NOTED OTHERWISE. DIMENSIONS TO EXISTING ELEMENTS ARE TO EXPOSED FACE.
5. ALL DOORS IN STUD WALL CONSTRUCTION ARE TO BE LOCATED WITH EDGE OF FRAME 4" FROM FACE OF ADJACENT PARTITION UNLESS NOTED OTHERWISE. DIMENSIONS LOCATING DOORS NOT DIRECTLY ADJACENT TO WALLS ARE GIVEN TO OUTSIDE EDGE OF FRAME.
6. ALL NEW WALLS AND HM DOORS & FRAMES TO BE PAINTED AS SPECIFIED

FLOOR PLAN SYMBOLS LEGEND



FRAME NAMING CONVENTION

HM-12:V2

FRAME MATERIAL
AL ALUMINUM
HM HOLLOW METAL
WD WOOD

FRAME CONFIGURATION
1ST DIGIT TRANSOM (0=NO, 1=YES)
2ND DIGIT NUMBER OF SIDELIGHTS
DE DOUBLE EGRESS
NS NO STOP
F FULL FRAME

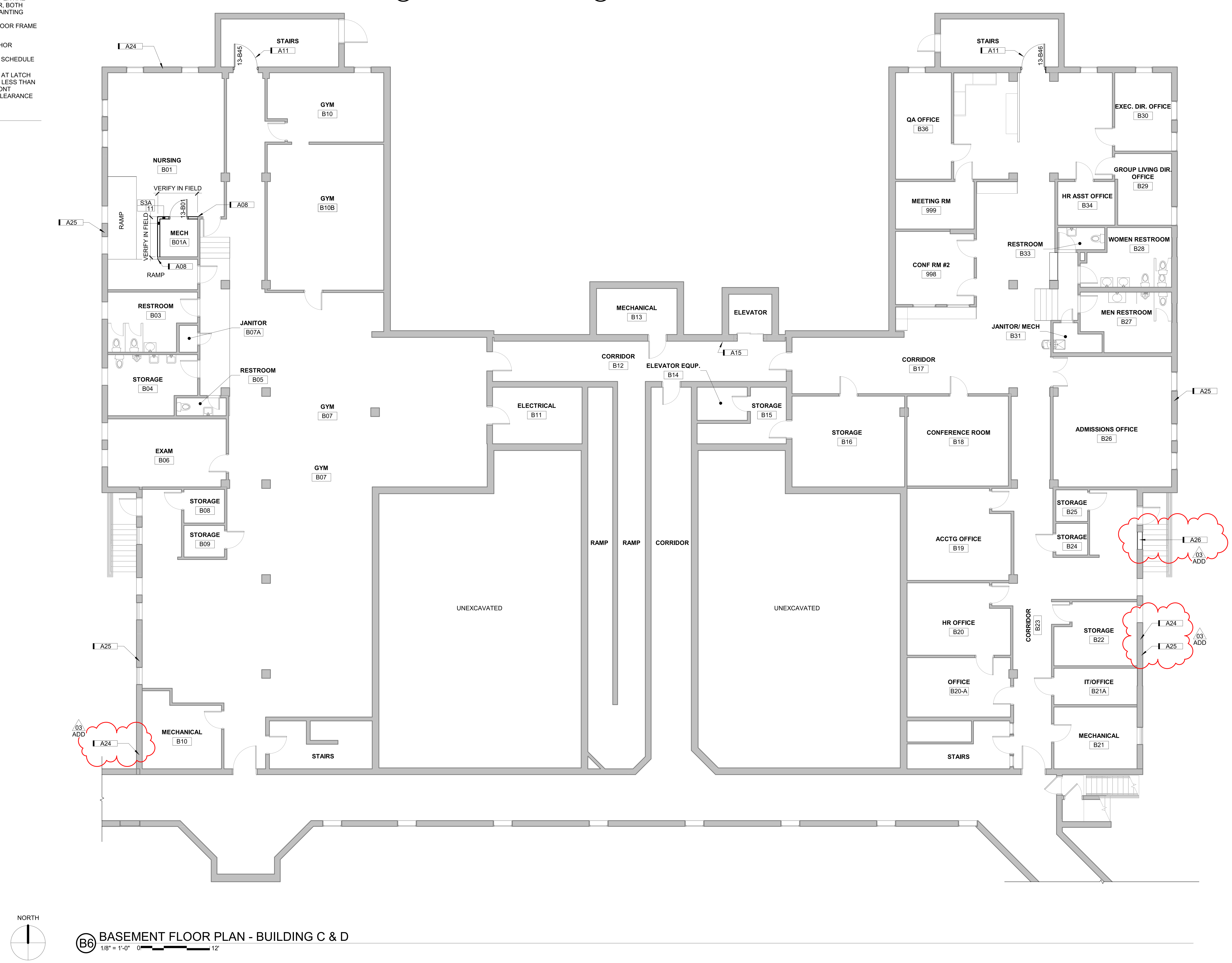
FRAME HEAD HEIGHT
2 2" HIGH
4 4" HIGH

FRAME DEPTH
V MATCH WALL WIDTH
F FIXED/ SPECIFIED

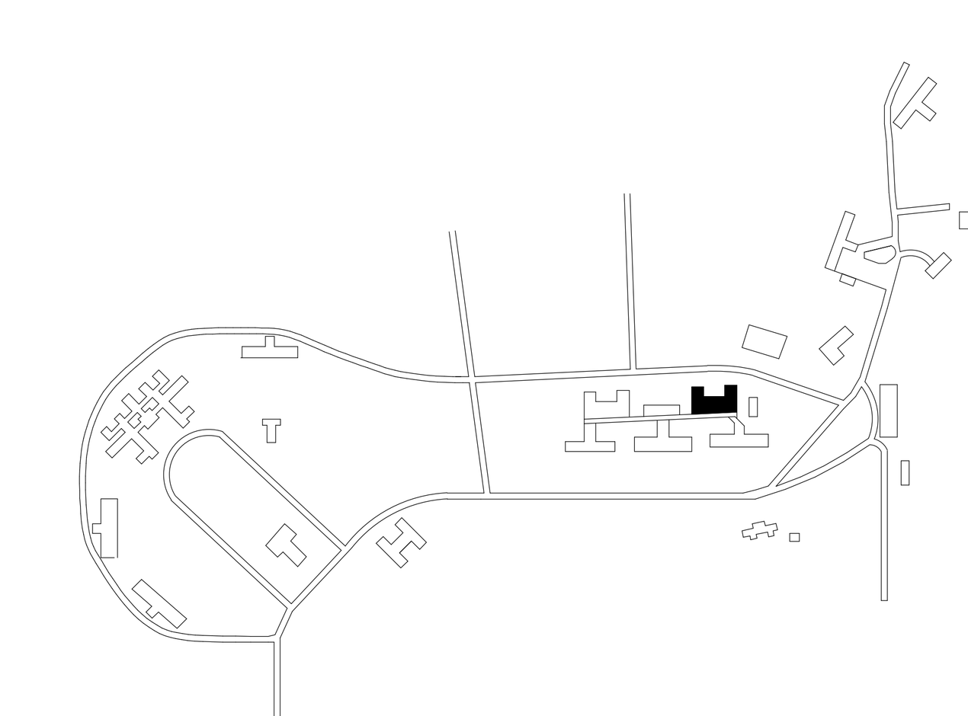
KEYNOTES

KEY	NOTE
A08	ALIGN NEW WALL WITH EXISTING
A11	REPLACE EXISTING DOOR WITH NEW FIRE RATED DOOR, AS PART OF 9279.41
A15	INSTALL FIRE SIGNAGE OUTSIDE ELEVATOR DOORS, SEE SPEC
A24	CORE DRILL THROUGH EXISTING WALL ASSEMBLY FOR NEW MECHANICAL SYSTEM. SEE MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
A25	NEW PIPE PENETRATIONS FOR NEW MECHANICAL SYSTEM. SEE MECHANICAL DRAWINGS FOR FURTHER INFORMATION
A26	INFILL OPENING (22"H X 34"W - FIELD VERIFY) WITH MECHANICAL LOUVER - SEE MECHANICAL DRAWINGS

03 ADD



B6 BASEMENT FLOOR PLAN - BUILDING C & D
1/8" = 1'-0"



SHIVE-HATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)
13-LINDEN C/D

IA DAS
Woodward, IA 50276

ADD 03 06/02/26 ADD-003

DRAWN BY	CRK
APPROVED BY	CLM
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

BASEMENT FLOOR PLAN - BUILDING C & D

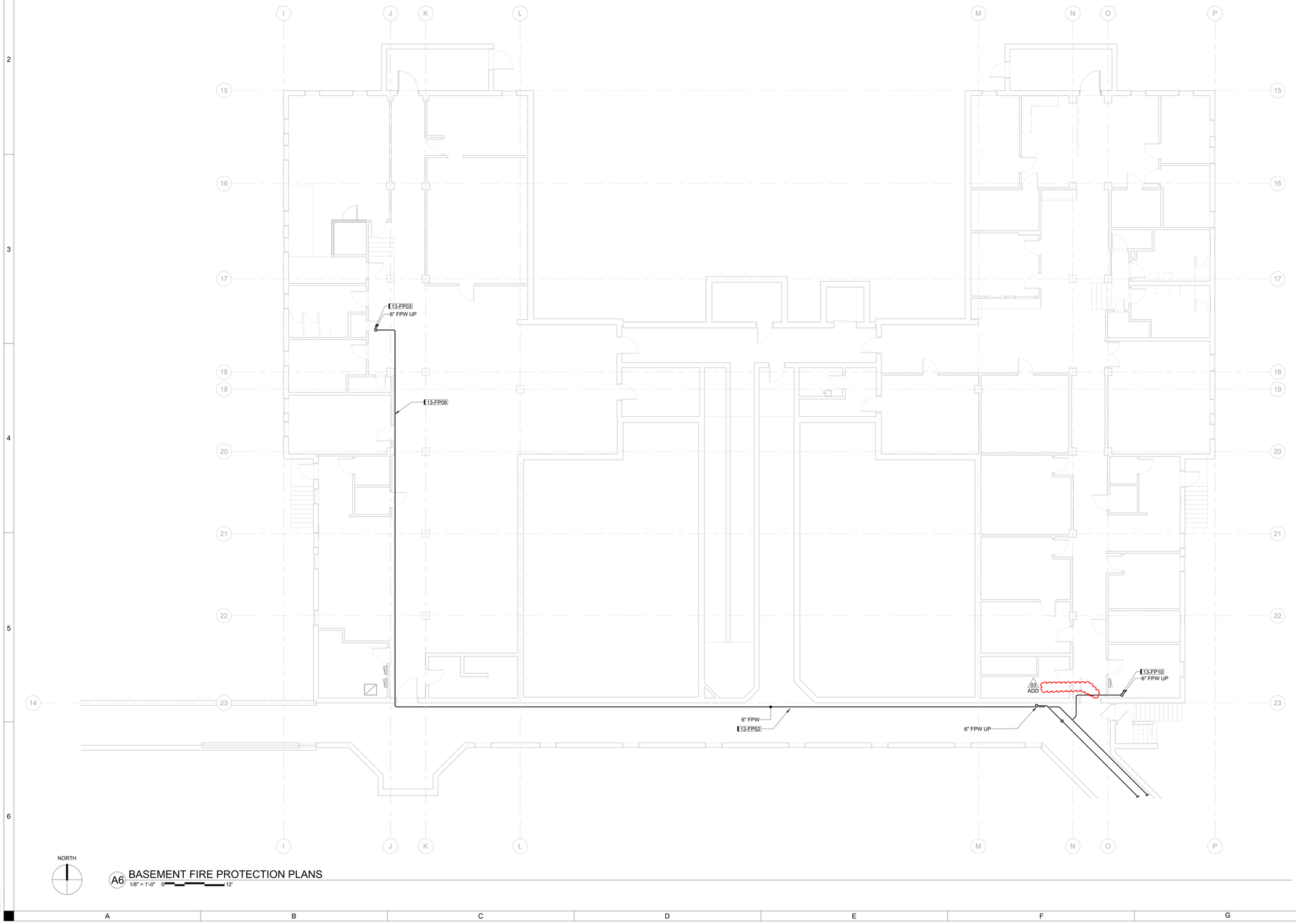
13-A100

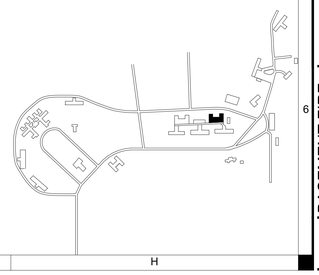
Autodesk Revit 2022

KEYNOTES	
KEY	NOTE
13-FP02	ROUTE NEW 6" FP PIPING IN EXISTING STEAM TUNNEL. PIPING IS SHOWN IN SCHEMATIC FORM AND DOES NOT INCLUDE ALL REQUIRED FITTINGS AND OFFSETS. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD-VERIFYING INTENDED ROUTING.
13-FP03	ROUTE FIRE PROTECTIONS MAIN TO JANITOR'S CLOSET. ROUTE RISER TO SECOND FLOOR THROUGH JANITOR'S CLOSETS ON FLOORS ABOVE. RISER LOCATION SHOWN IS ANTICIPATED RISER LOCATION. FIELD VERIFY PIPE RISER LOCATION ON EACH FLOOR PRIOR TO BEGINNING WORK.
13-FP08	ROUTE FIRE PROTECTION PIPING TIGHT TO CEILING. DESIGN INTENT IS FOR ALL PIPING TO BE WALL-MOUNTED. FIELD VERIFY EXACT PIPE ROUTING PRIOR TO INSTALLATION. COORDINATE ANY REQUIRED CONDUIT RELOCATION WITH FINAL ROUTING. OFFSET PIPING OVER DOORWAYS AND WALKWAYS AS REQUIRED TO MAINTAIN CLEAR OPENINGS.
13-FP10	ROUTE FIRE PROTECTION PIPING UP IN MECHANICAL ROOM. REFER TO FIRST FLOOR PLAN 13-FP101 FOR CONTINUATION.

NOTE:

BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.





NORTH

A6 BASEMENT FIRE PROTECTION PLANS
1/8" = 1'-0" 0 12'

SHIVEHATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVEHATTERY.COM

WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

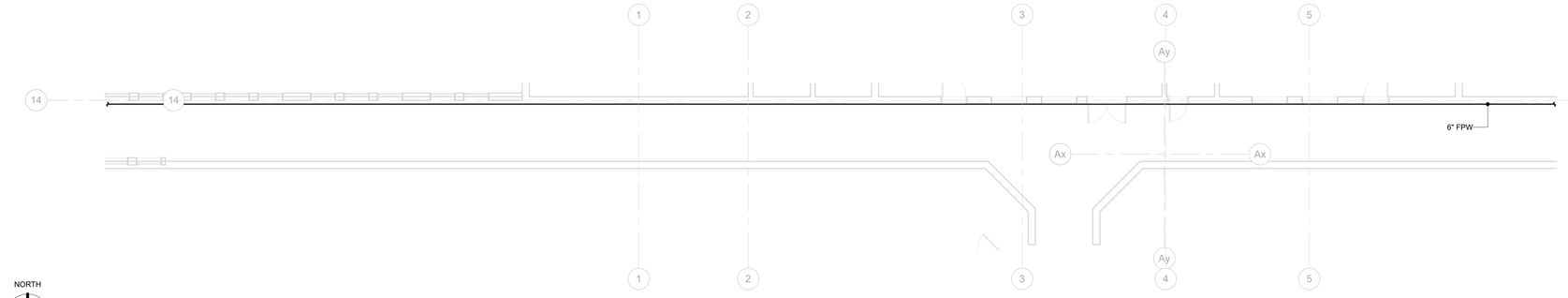
13-LINDEN C/D

Iowa Department of Administrative Services
1251 334th St, Woodward, IA 50276

ADD 03	06/02/20 ADD-003 26
DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2020
PROJECT NUMBER	2240007040
FIELD BOOK	

BASEMENT FIRE PROTECTION PLAN

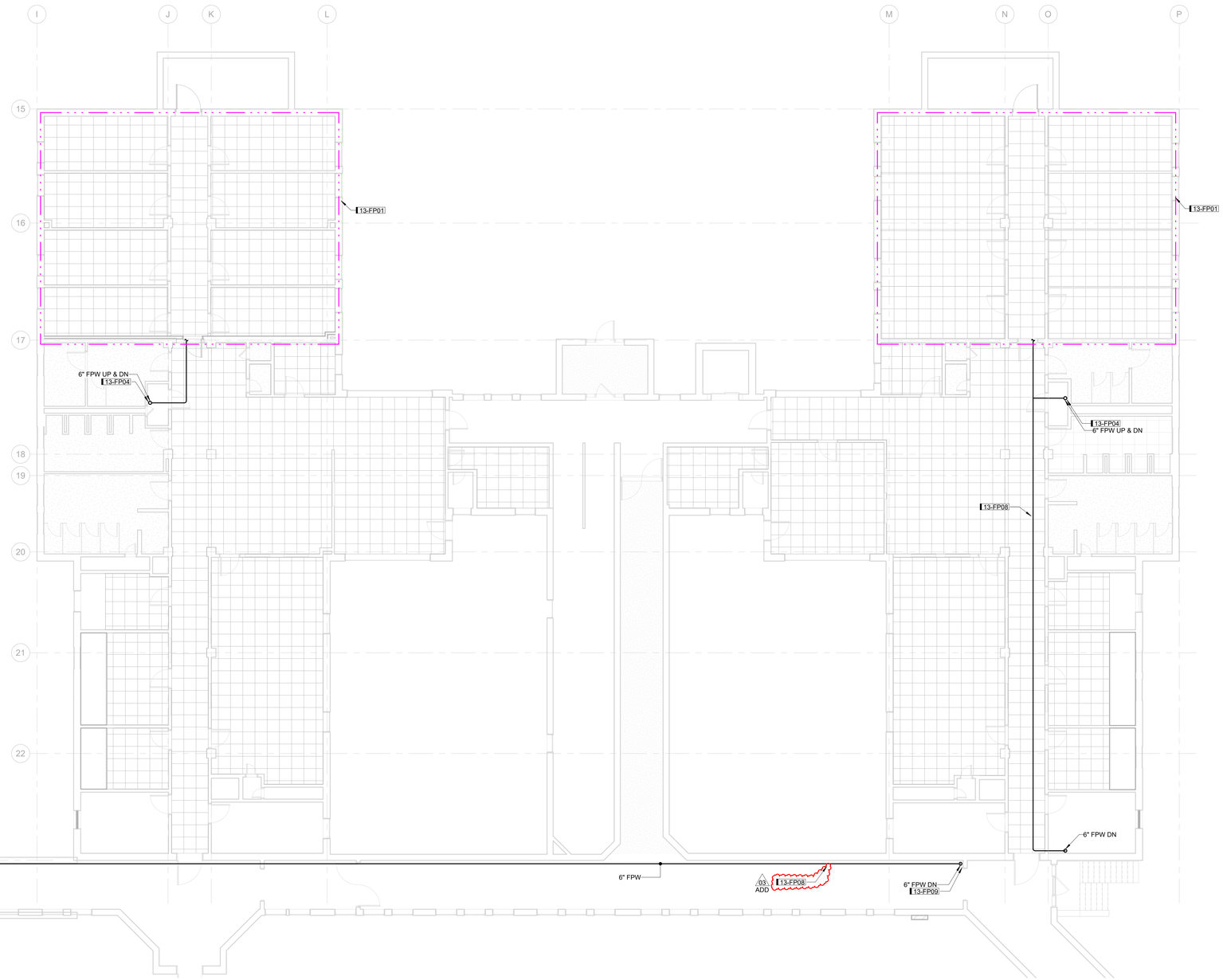
13-FP100



NORTH

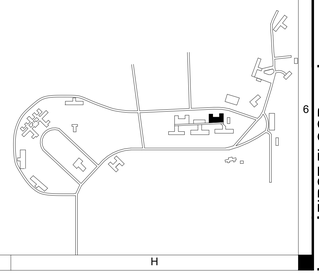
B2 FOOD SERVICE FIRST FLOOR CORRIDOR FIRE PROTECTION PIPING PLAN
1/8" = 1'-0" 0 12'

KEYNOTES	
KEY	NOTE
13-FP01	INSTALL SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. AREA SHALL BE CONSIDERED ORDINARY HAZARD GROUP 2 WITH MINIMUM DENSITY OF 0.20 GPM/SF OVER THE MOST HYDRAULICALLY REMOTE 1500 SF WITH 250 COMBINED INSIDE AND OUTSIDE HOSE STREAM ALLOWANCE.
13-FP04	LOCATION OF RISER SHOWN IS THE ANTICIPATED RISER LOCATION. CONTRACTOR SHALL CORE DRILL THROUGH FLOOR AS REQUIRED AT FINAL RISER LOCATION. CONTRACTOR SHALL FIELD VERIFY ROUTING AND COORDINATE FINAL ROUTING WITH ABATEMENT CONTRACTOR
13-FP08	ROUTE FIRE PROTECTION PIPING TIGHT TO CEILING. DESIGN INTENT IS FOR ALL PIPING TO BE WALL-MOUNTED. FIELD VERIFY EXACT PIPE ROUTING PRIOR TO INSTALLATION. COORDINATE ANY REQUIRED CONDUIT RELOCATION WITH FINAL ROUTING. OFFSET PIPING OVER DOORWAYS AND WALKWAYS AS REQUIRED TO MAINTAIN CLEAR OPENINGS.
13-FP09	FIRE PROTECTION ROUTES DOWN TO MAIN IN BASEMENT TUNNEL. REFER TO SHEET 13-FP100 FOR CONTINUATION.



NOTE:

BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.



NORTH

B6 FIRST FLOOR FIRE PROTECTION PLAN
1/8" = 1'-0" 0 12'

SHIVEHATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVEHATTERY.COM

WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)
13-LINDEN C/D
Iowa Department of Administrative Services
1251 334th St. Woodward, IA 50276

ADD 03	06/02/20 ADD-003 26
DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2020
PROJECT NUMBER	2240007040
FIELD BOOK	

FIRST FLOOR FIRE PROTECTION PLAN

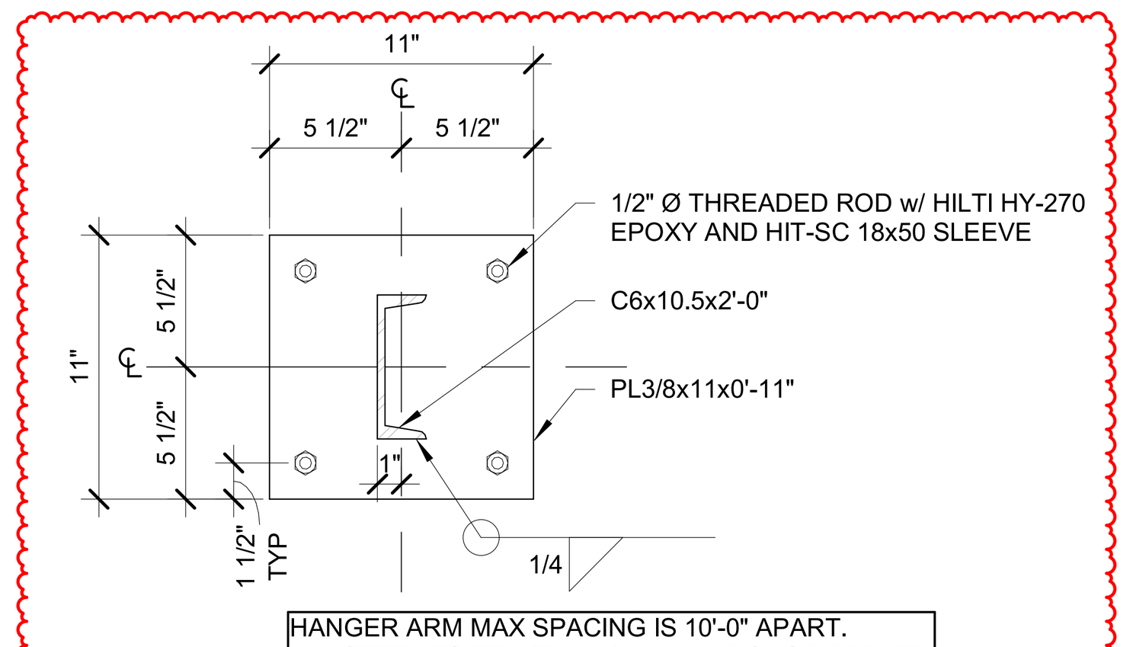
13-FP101

KEYNOTES	
KEY	NOTE
13-FP08	ROUTE FIRE PROTECTION PIPING TIGHT TO CEILING. FIELD VERIFY EXACT PIPE ROUTING PRIOR TO INSTALLATION. ATTACH FIRE PROTECTION TO EXISTING WALLS WITH DETAIL G3/13-FP300.

03 ADD

NOTE:

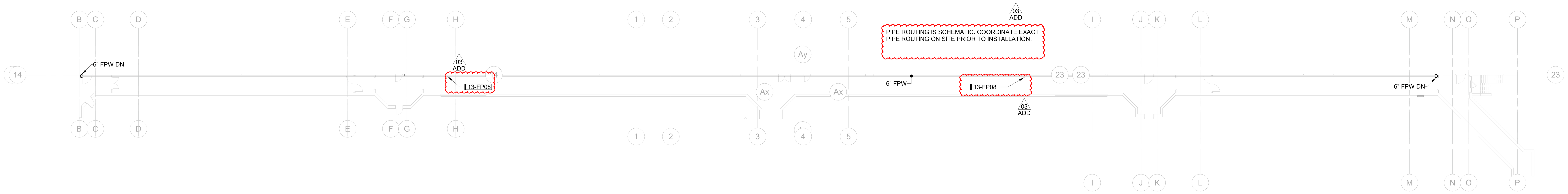
BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.



03 ADD

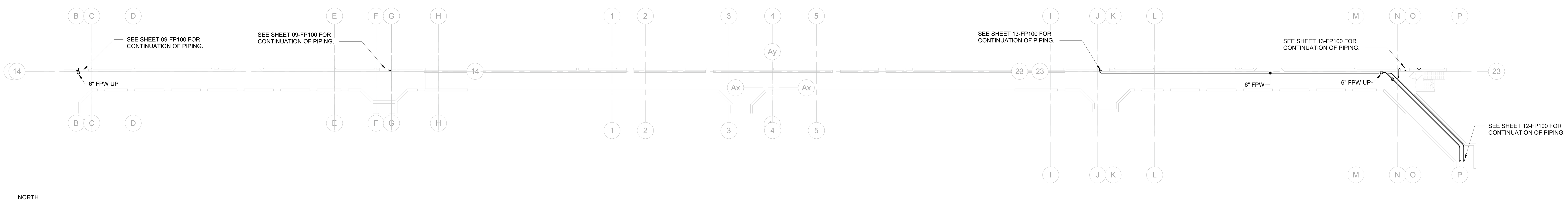
G3 FIRE PROTECTION HANGER ARM

1 1/2" = 1'-0"



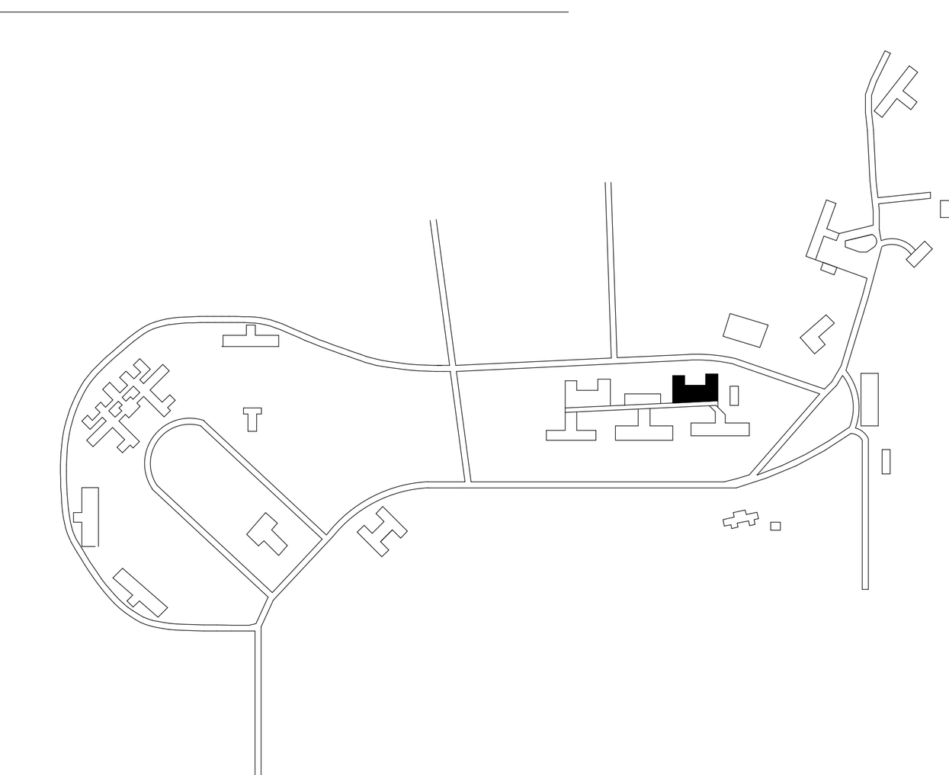
A4 OVERALL FIRST FLOOR CORRIDOR FIRE PROTECTION PIPING PLAN

1" = 20'-0"



A6 OVERALL BASEMENT TUNNEL FIRE PROTECTION PIPING PLAN

1" = 20'-0"



SHIVE-HATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

13-LINDEN C/D

Iowa Department of Administrative Services
1251 334th St, Woodward, IA 50276

ADD 03	06/02/2026	ADD-003

DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

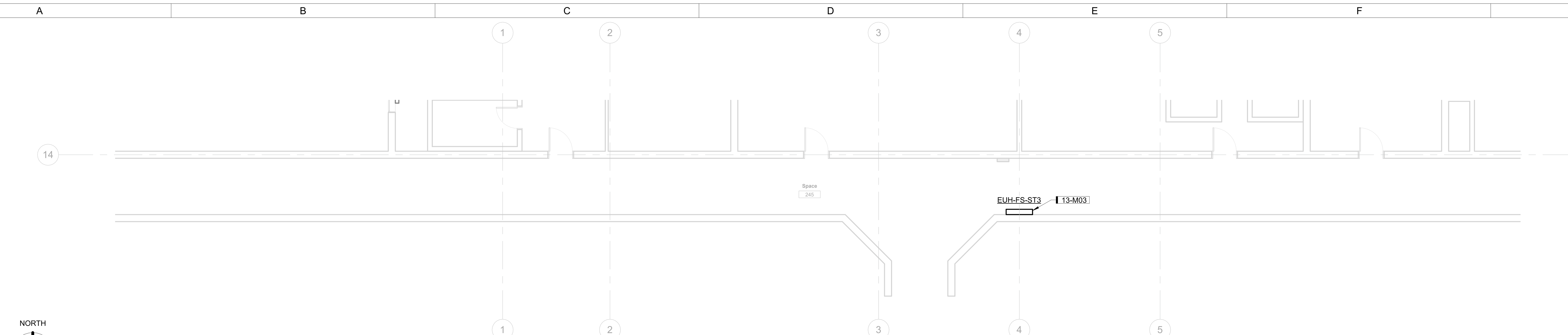
OVERALL FIRE PROTECTION PLAN

13-FP300

Autodesk Revit 2022

KEYNOTES

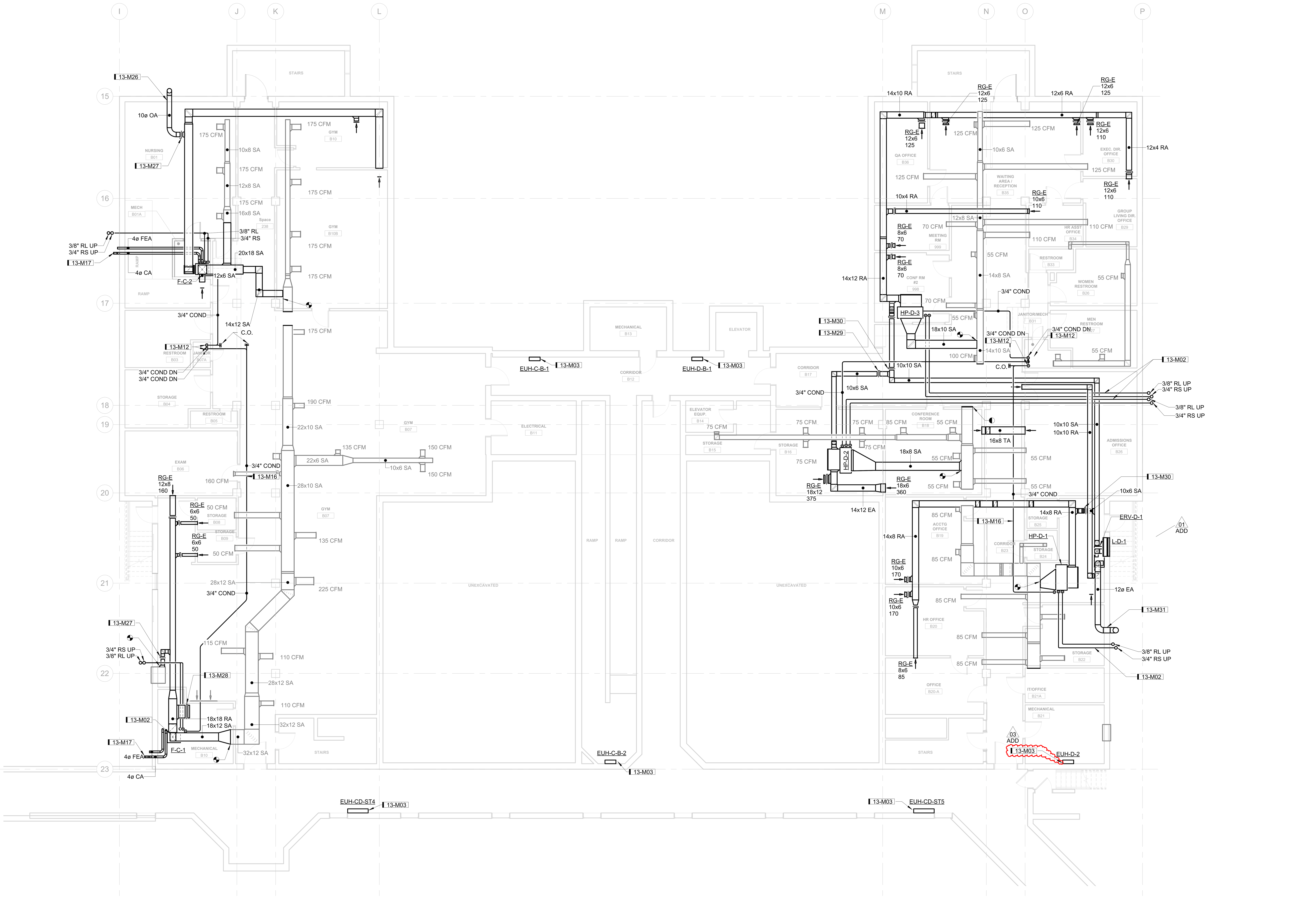
KEY	NOTE
13-M02	REFRIGERANT PIPING SIZE AND ROUTING SHOWN IS AN APPROXIMATION. EXACT SIZING AND ROUTING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
13-M03	NEW ELECTRIC UNIT HEATER TO BE SURFACE MOUNTED ON WALL PER MANUFACTURER'S INSTRUCTIONS.
13-M12	ROUTE CONDENSATE PIPING FROM CONDENSATE PUMP TO JANITOR'S CLOSET. TERMINATE PIPING AT THE NEAREST FIXTURE IN JANITOR CLOSET.
13-M16	PIPE ROUTING SHOWN IS THE ANTICIPATED CONDENSATE PIPE ROUTING. FIELD VERIFY EXACT PIPE ROUTING PRIOR TO INSTALLATION.
13-M17	EXTEND FLUE AND COMBUSTION AIR THROUGH WALL TO EXTERIOR. SLEEVE PENETRATIONS AND SEAL WEATHERTIGHT. REFER TO FURNACE MANUFACTURER'S WRITTEN INSTRUCTIONS FOR FLUE AND COMBUSTION VENTING REQUIREMENTS AND TERMINATION DETAILS.
13-M26	ROUTE NEW OA INTAKE DUCT THROUGH WALL. SLEEVE PENETRATION AND SEAL WEATHERTIGHT. TERMINATE DUCT WITH GOOSENECK WITH BIRD SCREEN 3'-0" ABOVE GRADE.
13-M27	BALANCE OA INTAKE TO 200 CFM.
13-M28	BALANCE RETURN AIR DAMPER TO 1500 CFM.
13-M29	BALANCE OA BRANCH TO 100 CFM.
13-M30	BALANCE OA BRANCH TO 150 CFM.
13-M31	ROUTE NEW EXHAUST DUCT THROUGH WALL. SLEEVE PENETRATION AND SEAL WEATHERTIGHT. TERMINATE DUCT WITH GOOSENECK WITH BIRD SCREEN 3'-0" ABOVE GRADE.



NORTH

A2 FOOD SERVICE BASEMENT TUNNEL MECHANICAL PLAN

1/8" = 1'-0" 0 12'



NORTH

A6 BASEMENT MECHANICAL DUCTWORK PLAN

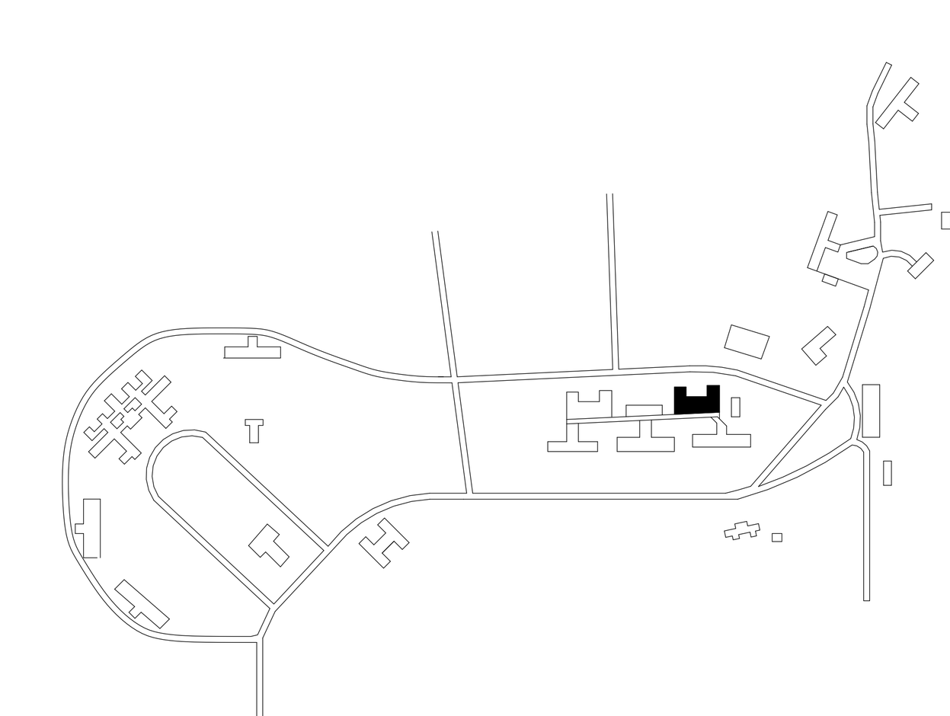
1/8" = 1'-0" 0 12'

NOTE:

BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.

DUCT ROUTING IS BASED ON RECORD DRAWINGS AND DIFFUSER LOCATIONS ON SITE. FIELD VERIFY LOCATION OF DUCTWORK PRIOR TO PERFORMING WORK.

AIRFLOWS SHOWN ON PLANS ARE ASSUMED AIRFLOWS BASED ON RECORD DRAWINGS.



SHIVE-HATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

13-LINDEN C/D

Iowa Department of Administrative Services
1251 334th St, Woodward, IA 50276

ADD 01	05/19/2026	ADD-001	
ADD 03	06/02/2026	ADD-003	

DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

BASEMENT MECHANICAL DUCTWORK PLAN

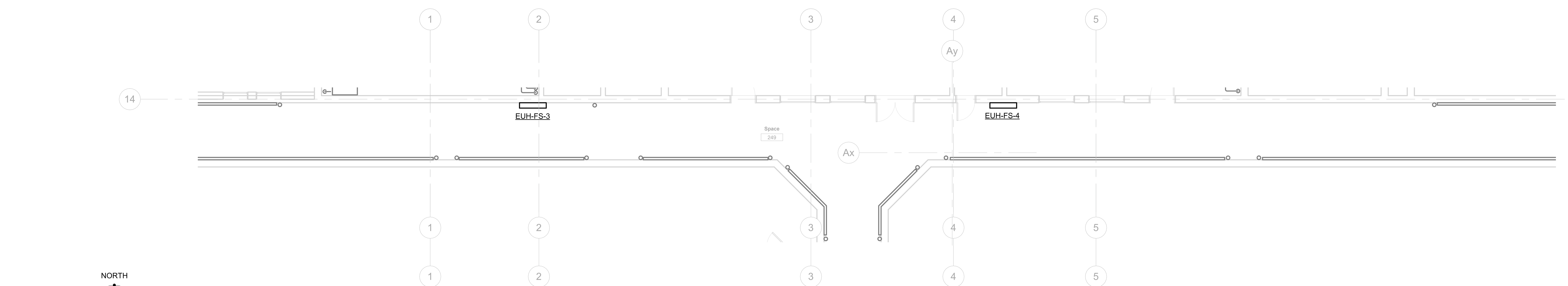
13-M200

Autodesk Revit 2022

KEYNOTES

KEY	NOTE
13-M03	NEW ELECTRIC UNIT HEATER TO BE SURFACE MOUNTED ON WALL PER MANUFACTURER'S INSTRUCTIONS.
13-M04	ACCU TO BE WALL MOUNTED PER MANUFACTURER'S INSTRUCTIONS WITH MANUFACTURER PROVIDED MOUNTING BRACKETS.
13-M06	REFER TO DETAIL G5 ON SHEET M500 FOR FIRE DAMPER DETAIL.
13-M19	NEW RETURN DUCTWORK TO DRAW AIR FROM EXISTING PLENUM RETURN DUCTWORK AND MECHANICAL ROOM. TERMINATE RA OPENING IN ROOM WITH 3/4" HARDWARE CLOTH.
13-M31	ROUTE NEW EXHAUST DUCT THROUGH WALL. SLEEVE PENETRATION AND SEAL WEATHERTIGHT. TERMINATE DUCT WITH GOOSENECK WITH BIRD SCREEN 3'-0" ABOVE GRADE.
13-M32	EXTEND EXISTING DUCT PAST NEW FIREWALL AND INSTALL FIRE DAMPER. TERMINATE ABOVE CEILING AFTER FIRE DAMPER.

01 ADD



A2 FOOD SERVICE FIRST FLOOR MECHANICAL PLAN

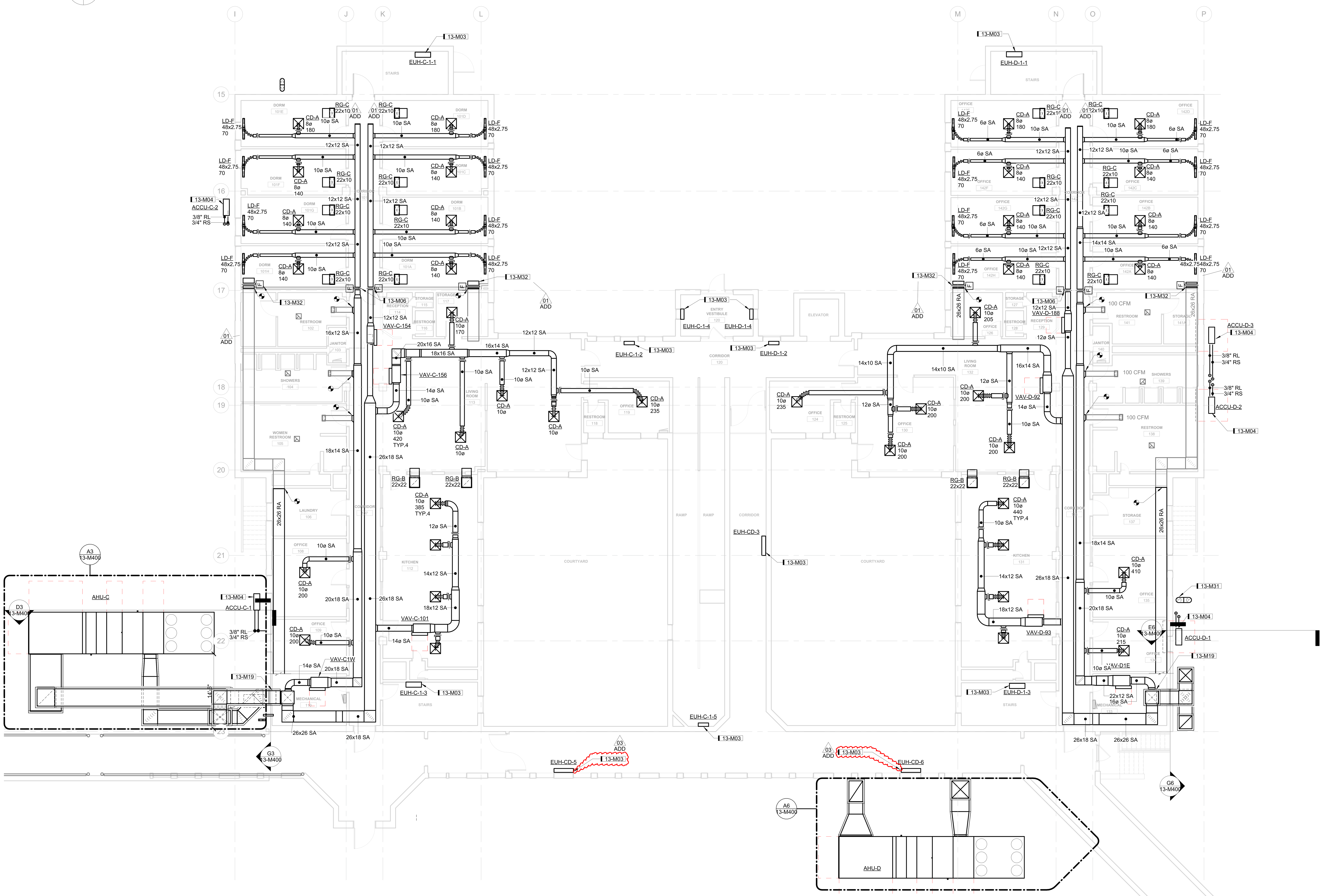
1/8" = 1'-0"

NOTE:

BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.

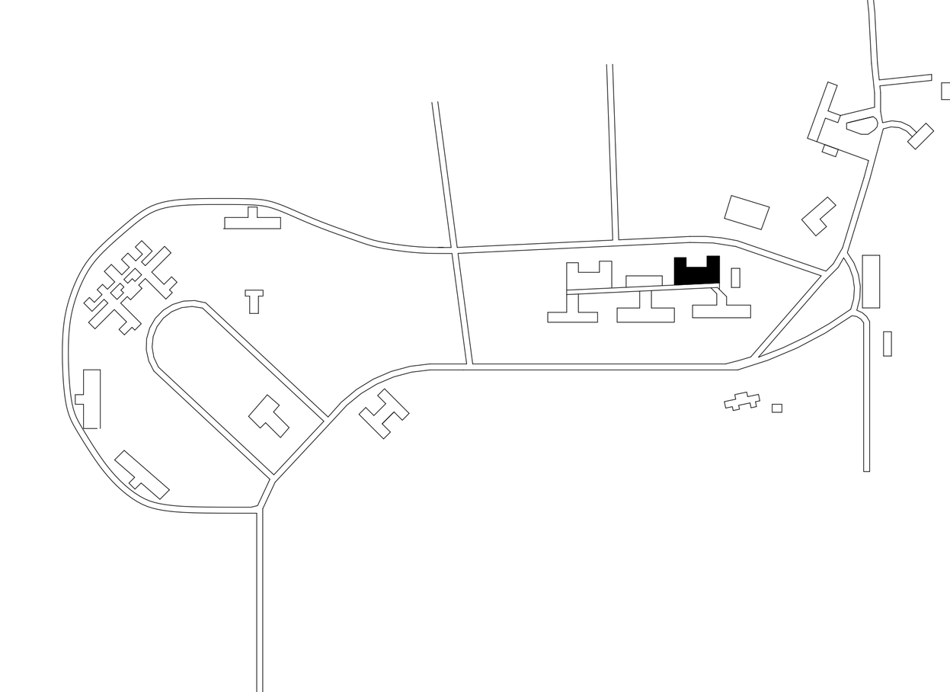
DUCT ROUTING IS BASED ON RECORD DRAWINGS AND DIFFUSER LOCATIONS ON SITE. FIELD VERIFY LOCATION OF DUCTWORK PRIOR TO PERFORMING WORK.

AIRFLOWS SHOWN ON PLANS ARE ASSUMED AIRFLOWS BASED ON RECORD DRAWINGS.



A6 FIRST FLOOR MECHANICAL DUCTWORK PLAN

1/8" = 1'-0"



SHIVE-HATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

13-LINDEN C/D

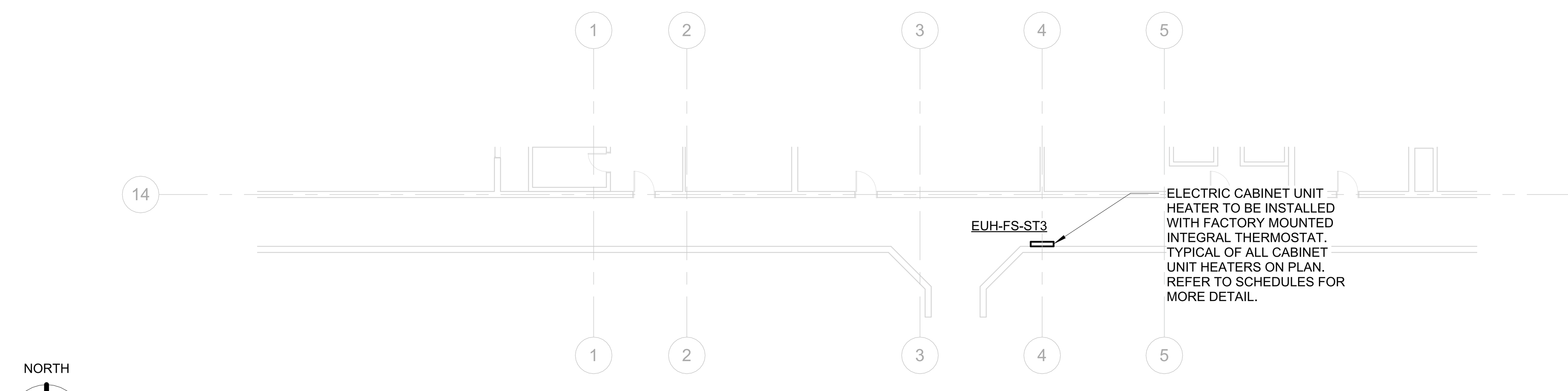
Iowa Department of Administrative Services
1251 334th St, Woodward, IA 50276

ADD 01	05/19/2026	ADD-001
ADD 03	06/02/2026	ADD-003

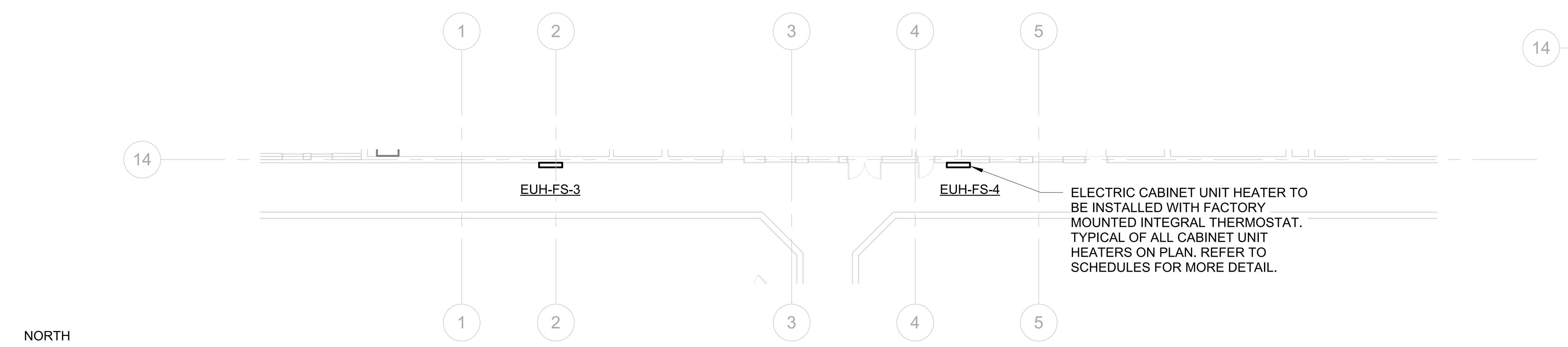
DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

FIRST FLOOR MECHANICAL DUCTWORK PLAN

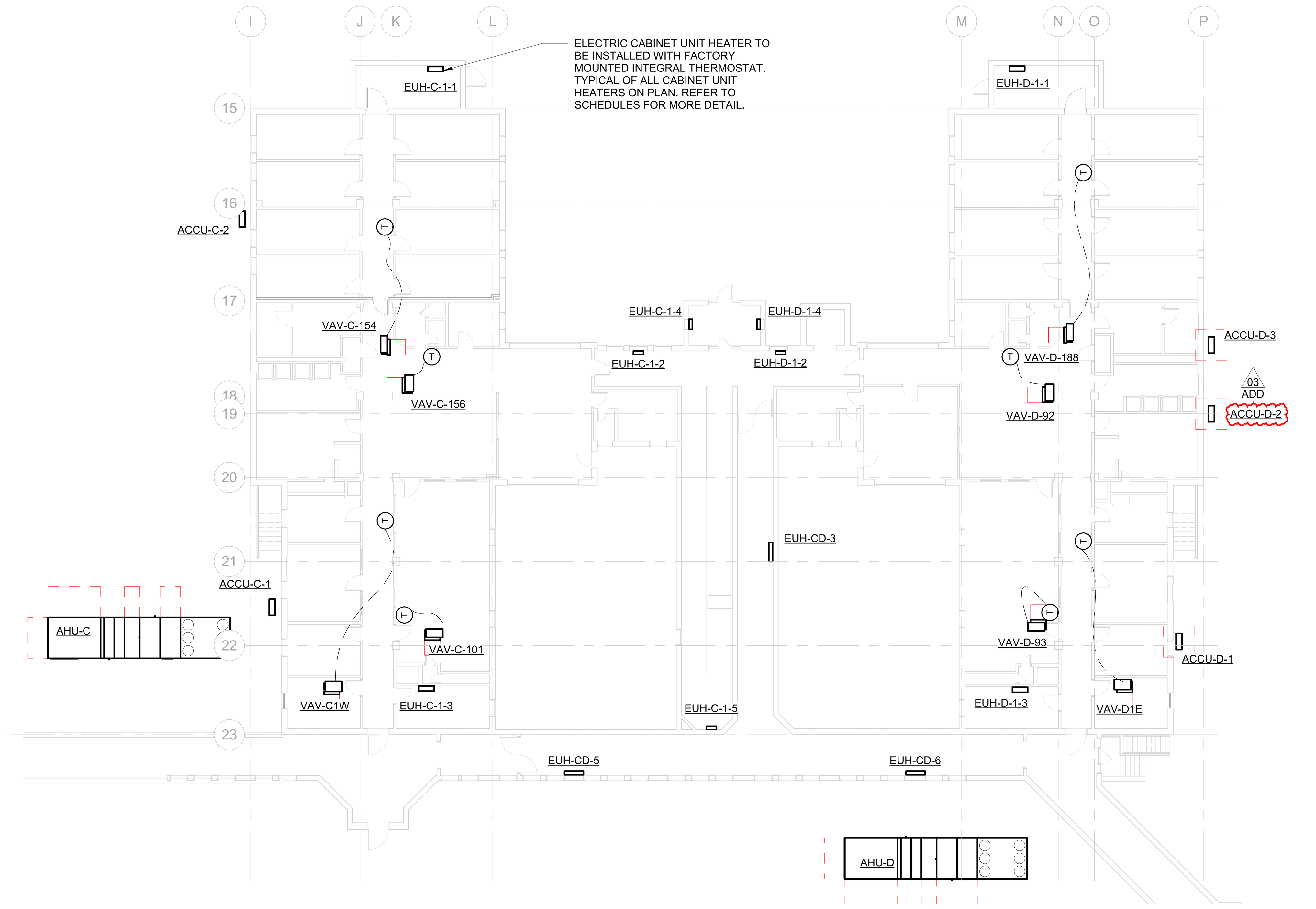
13-M201



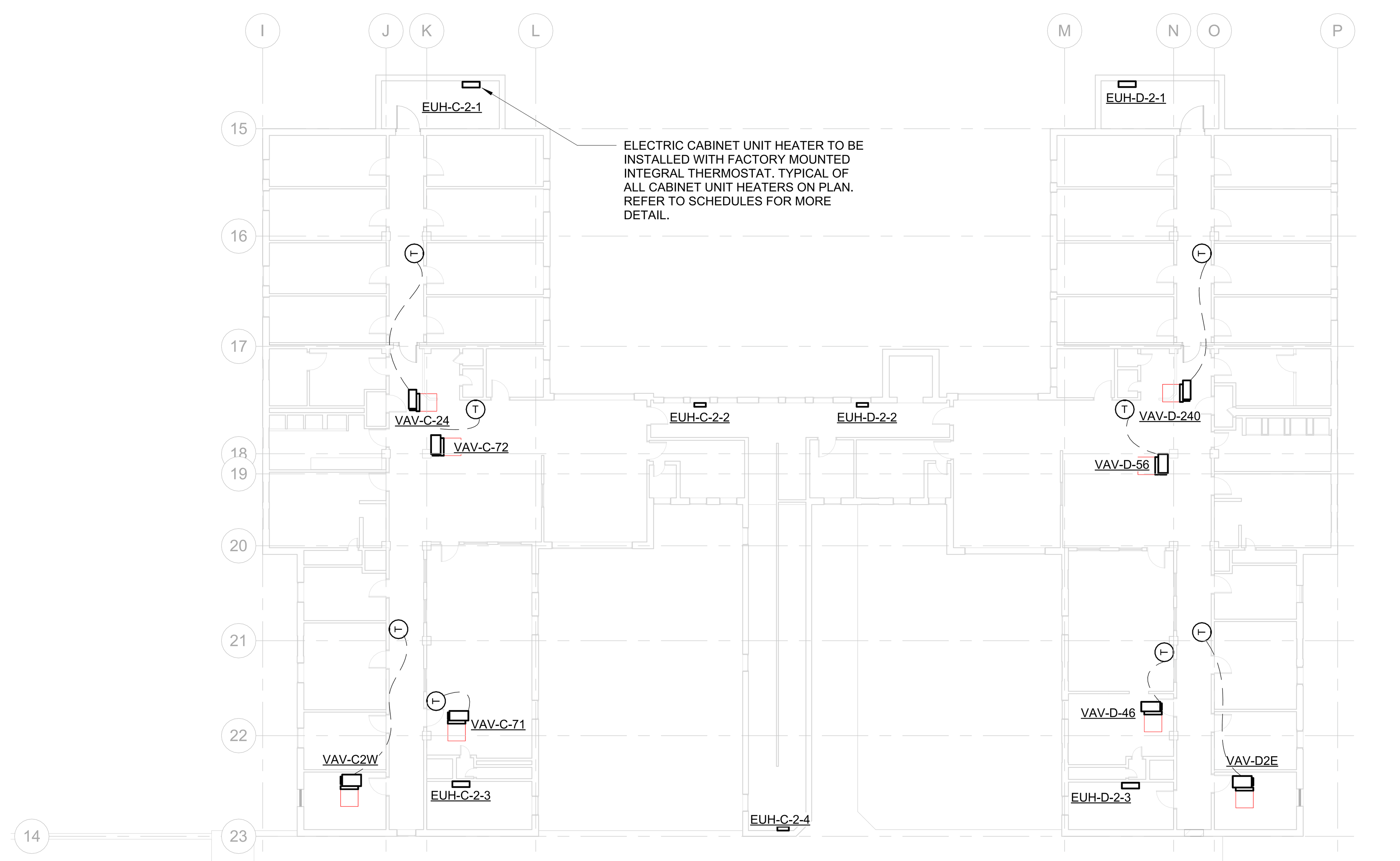
A2 FOOD SERVICE BASEMENT TUNNEL THERMOSTAT PLAN
1/16" = 1'-0"



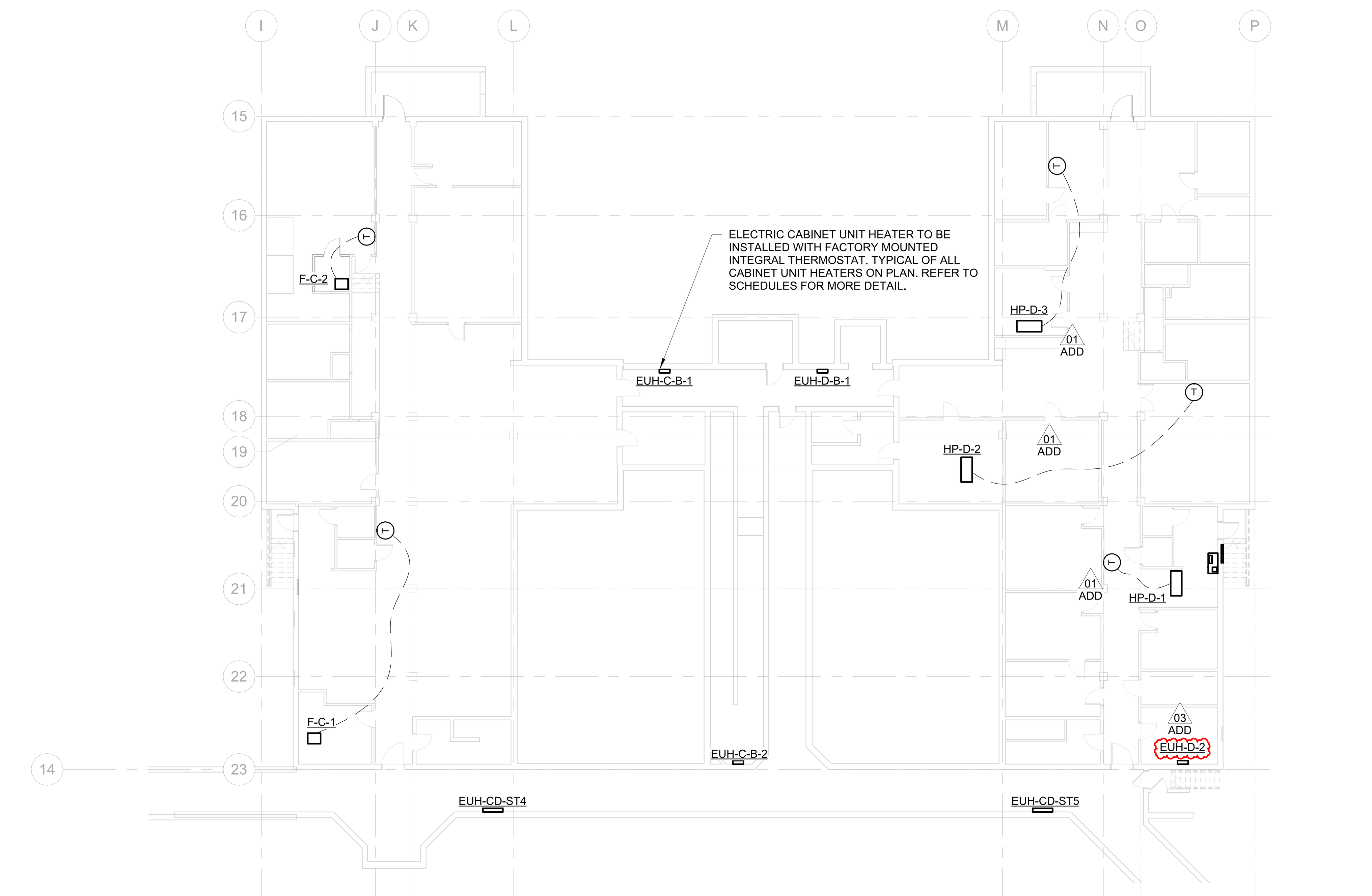
A4 FOOD SERVICE FIRST FLOOR THERMOSTAT PLAN
1/16" = 1'-0"



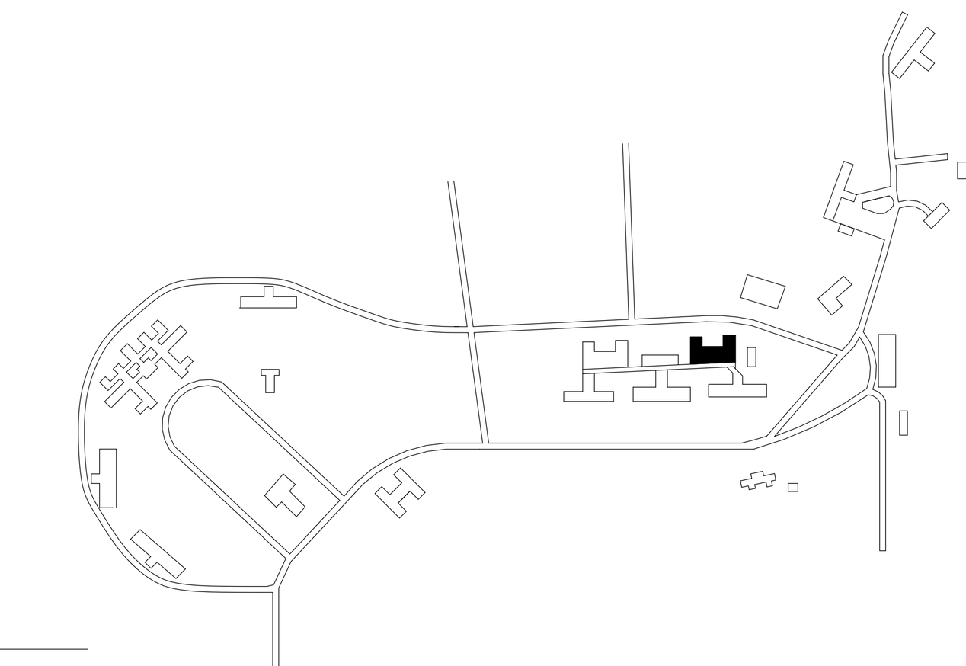
D4 FIRST FLOOR THERMOSTAT PLAN
1/16" = 1'-0"



A6 SECOND FLOOR THERMOSTAT PLAN
1/16" = 1'-0"



D6 BASEMENT THERMOSTAT PLAN
1/16" = 1'-0"



SHIVE-HATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

13-LINDEN C/D

Iowa Department of Administrative Services
1251 334th St, Woodward, IA 50276

ADD 01	05/19/2026	ADD-001	
ADD 03	06/02/2026	ADD-003	

DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

THERMOSTAT PLAN

13-M300

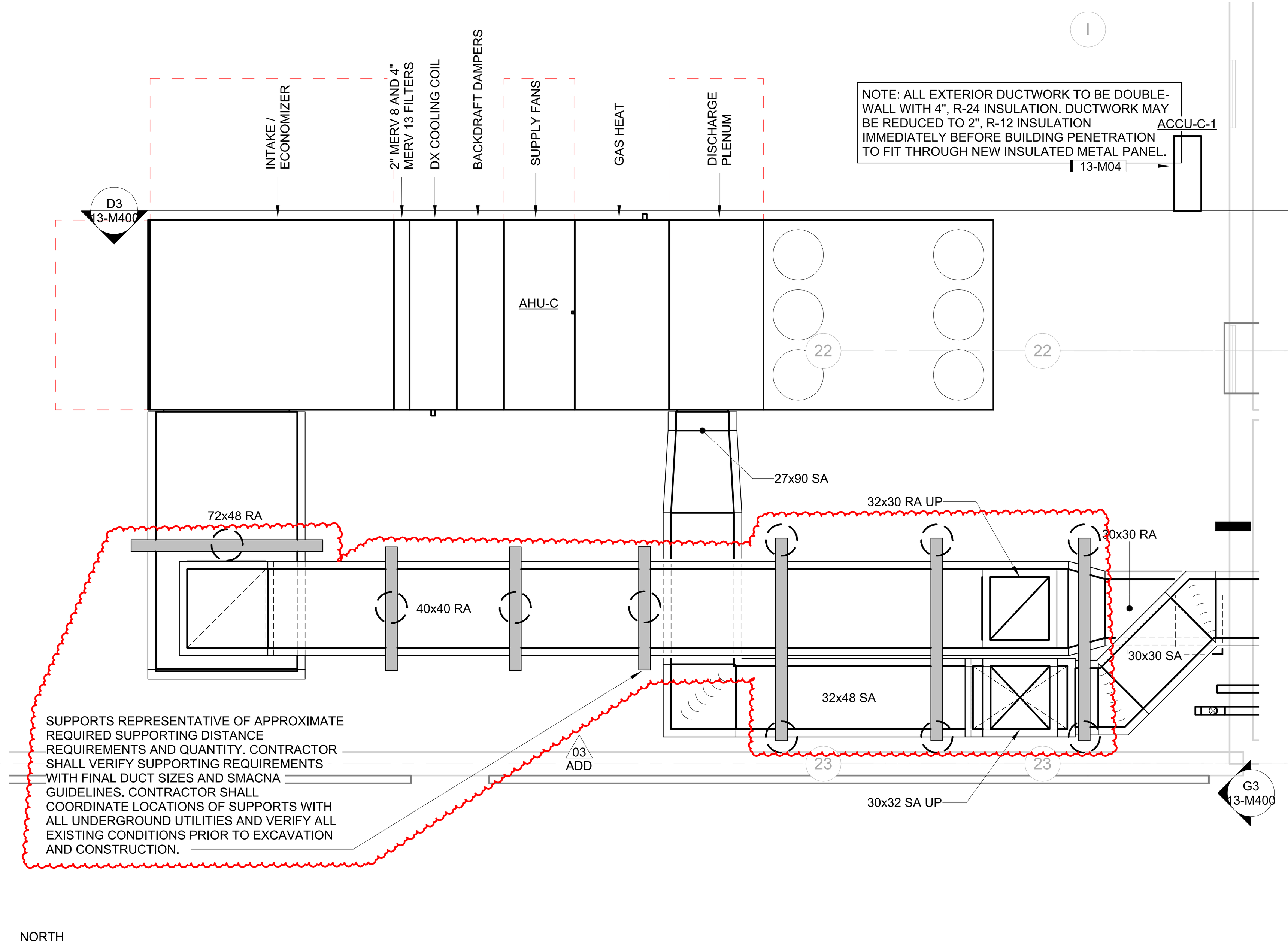
Autodesk Revit 2022

NOTE:

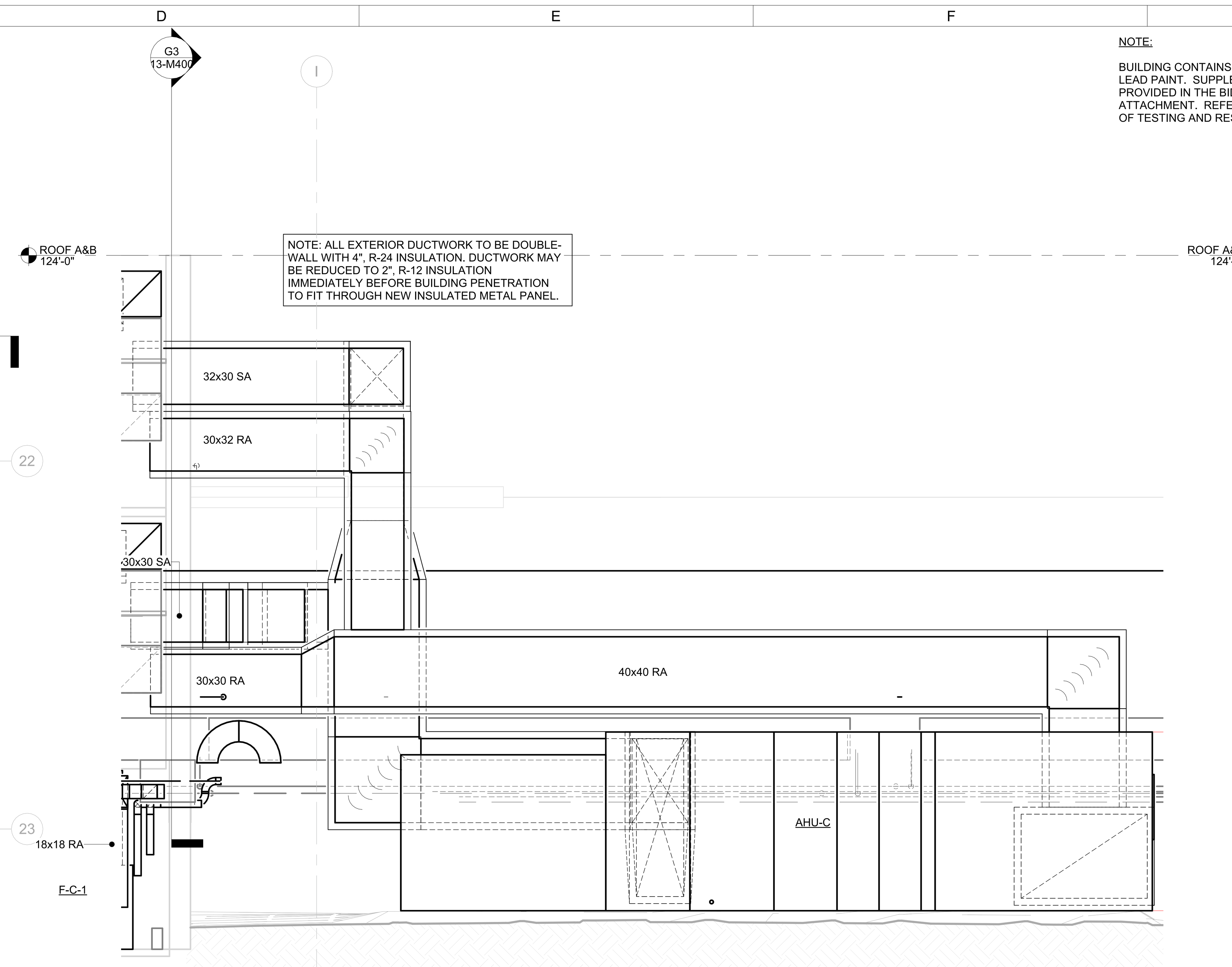
BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.

KEYNOTES

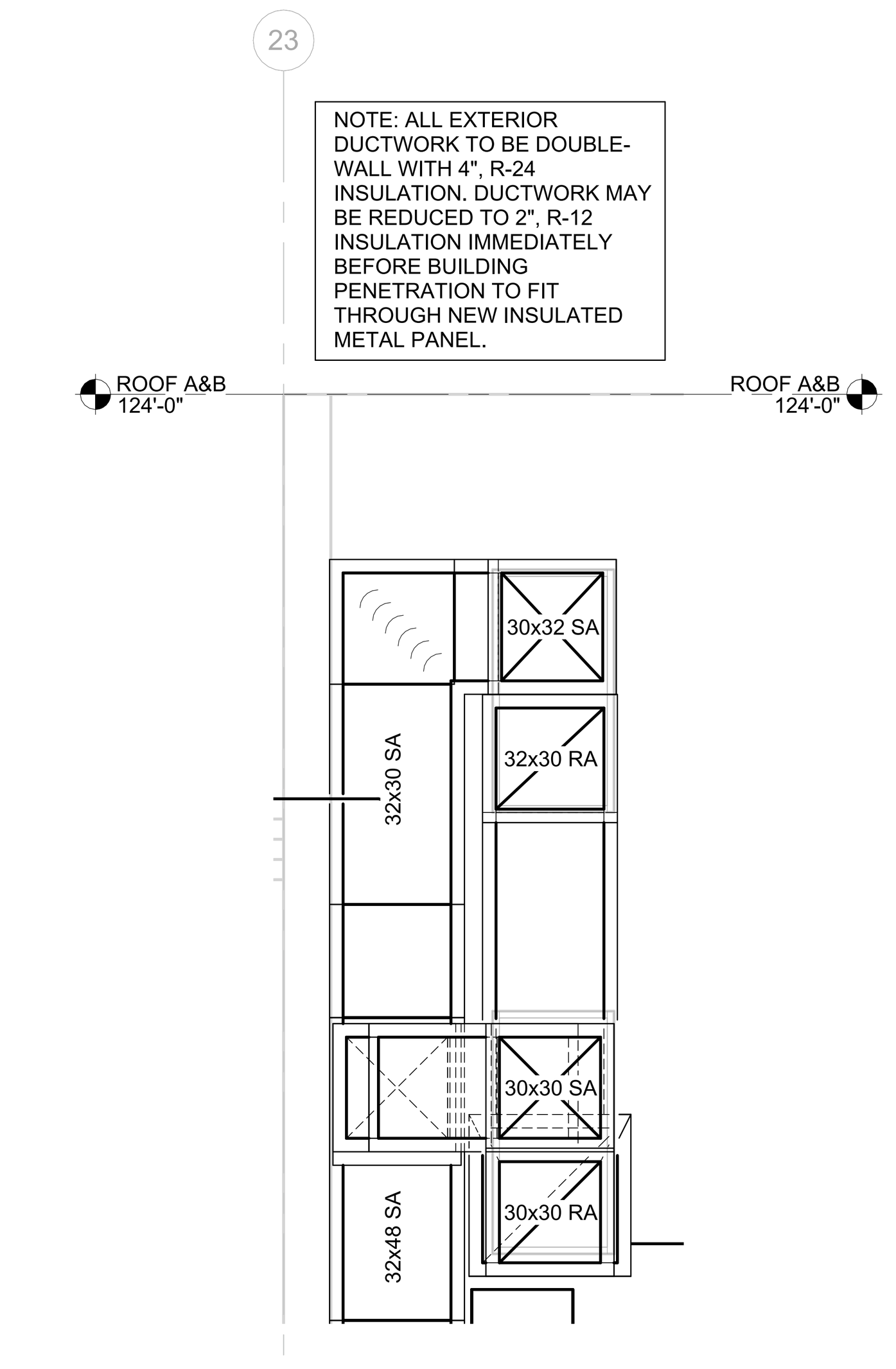
KEY	NOTE
13-M04	ACCU TO BE WALL MOUNTED PER MANUFACTURER'S INSTRUCTIONS WITH MANUFACTURER PROVIDED MOUNTING BRACKETS.



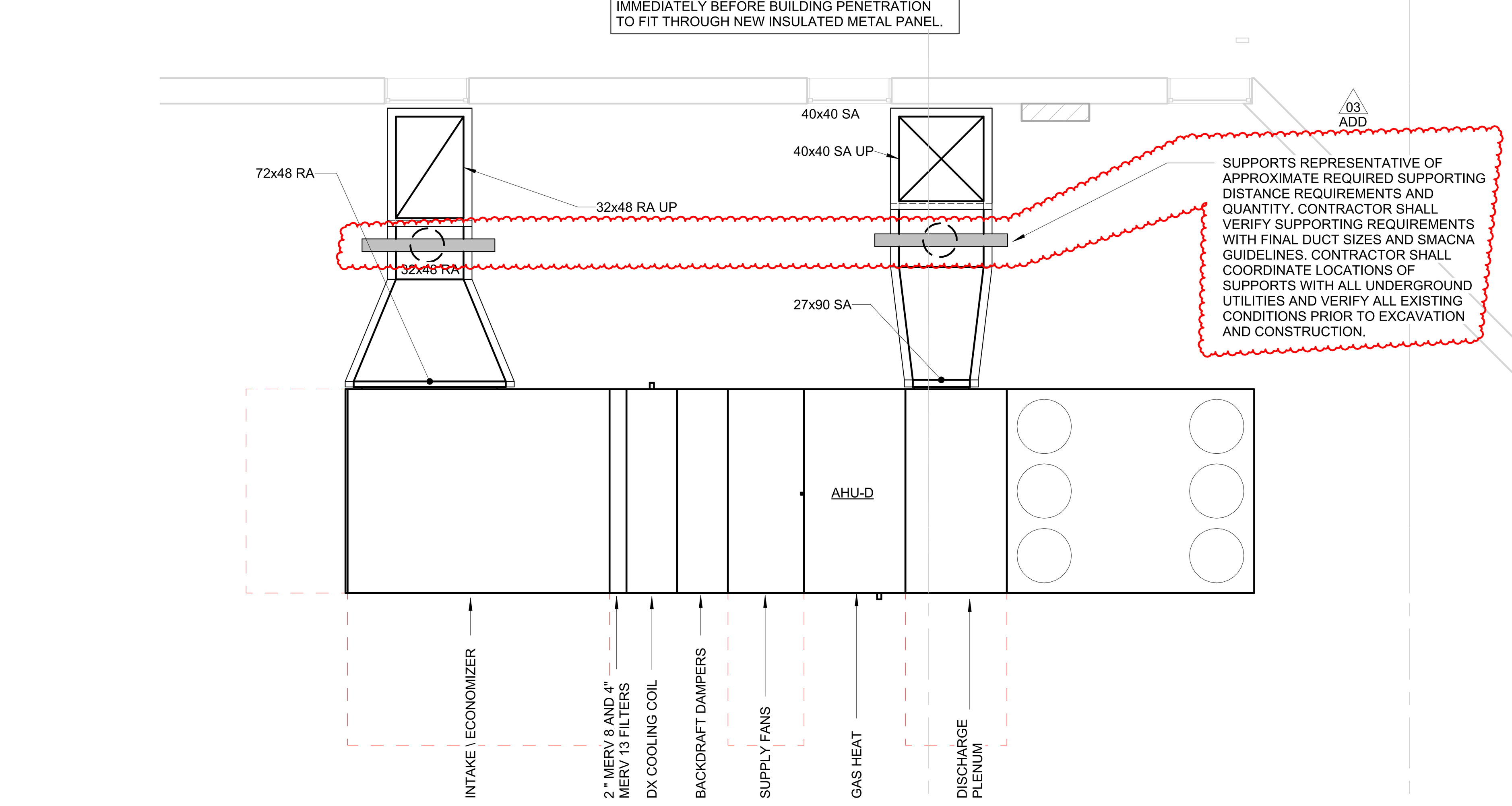
A3 BUILDING C AHU MECHANICAL PLAN
1/4" = 1'-0"



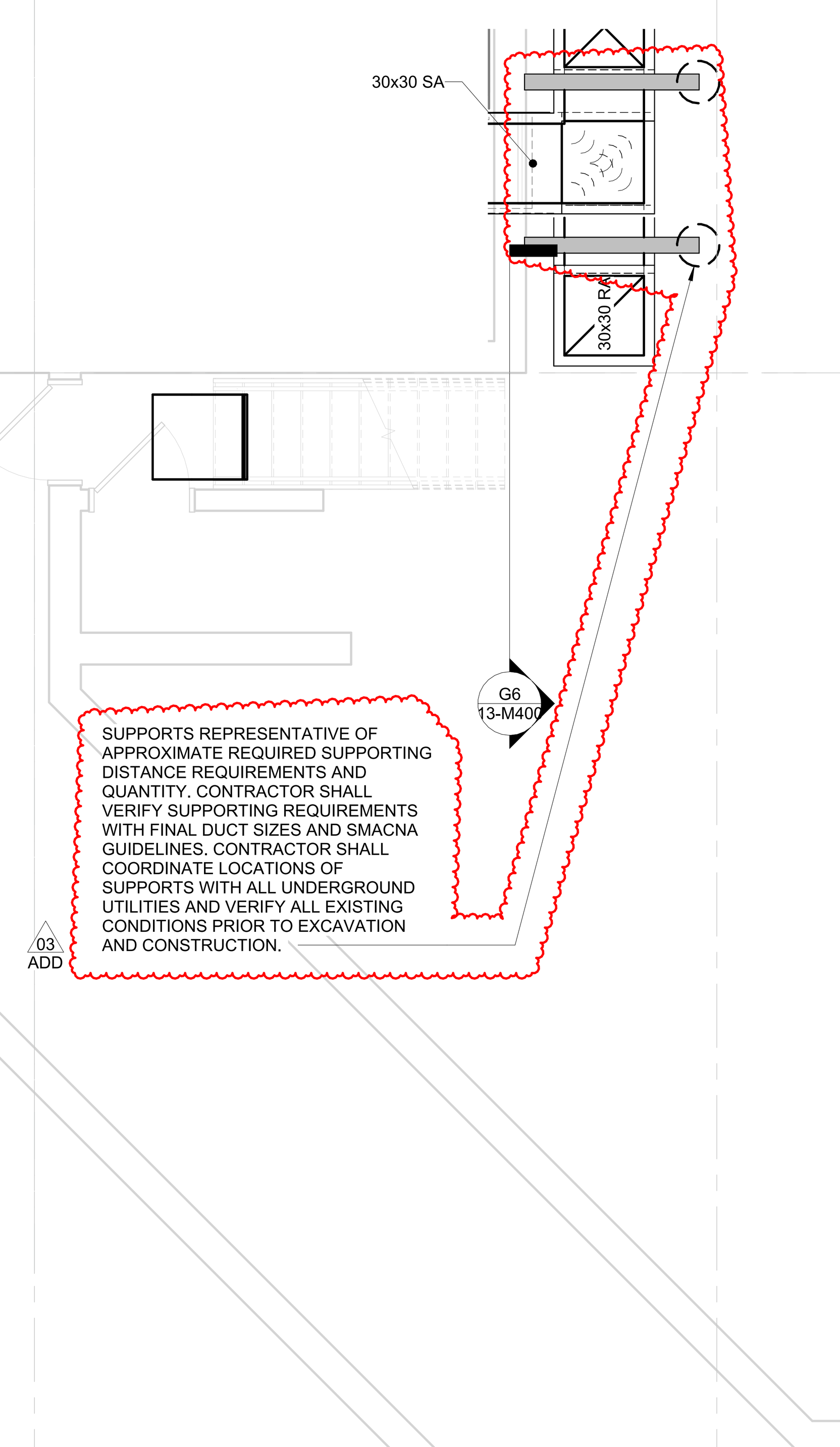
D3 BUILDING C AHU DUCT RISER & WALL PENETRATION PLAN
1/4" = 1'-0"

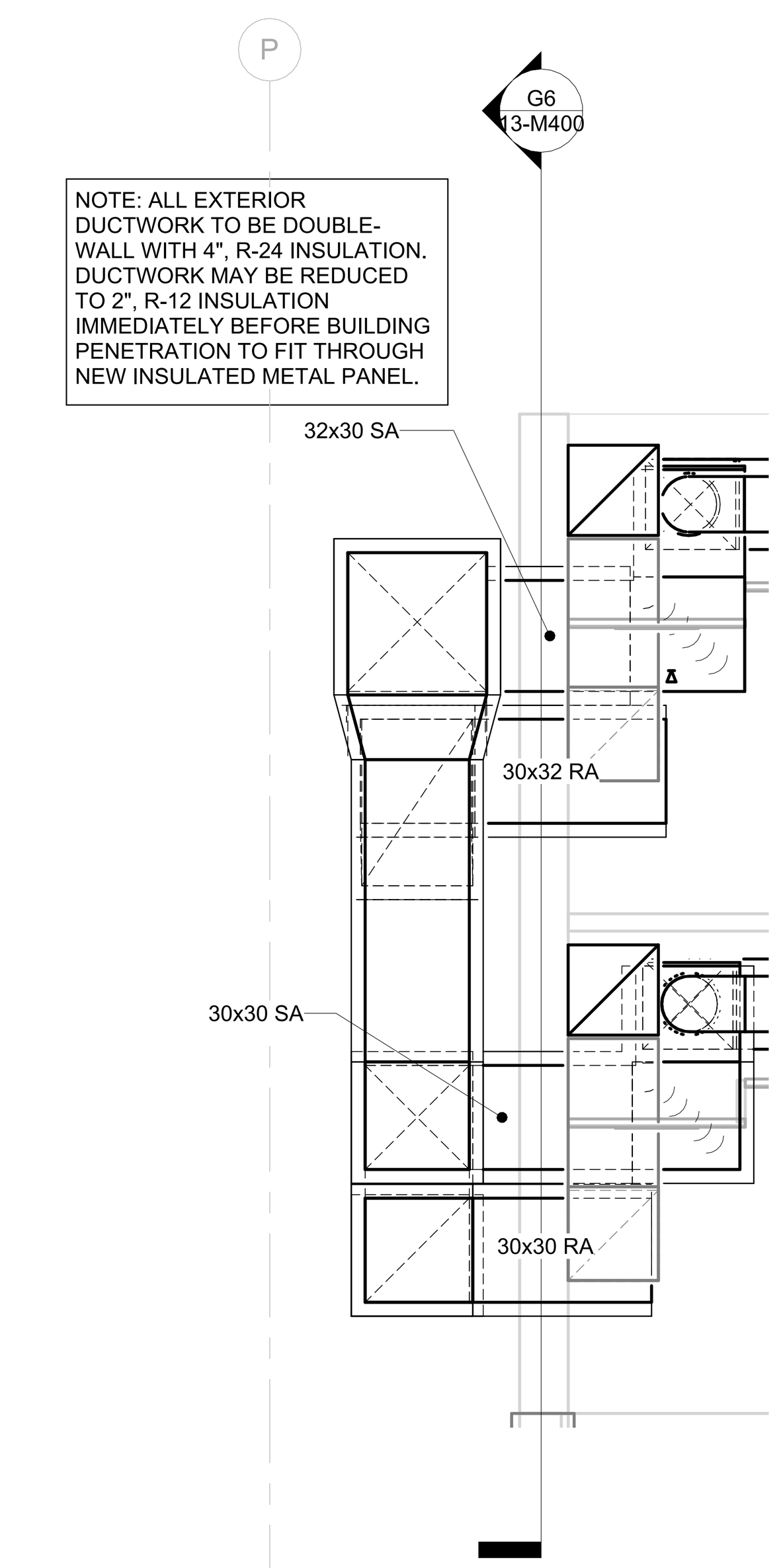


G3 BUILDING C AHU DUCT CONNECTION PLAN
1/4" = 1'-0"

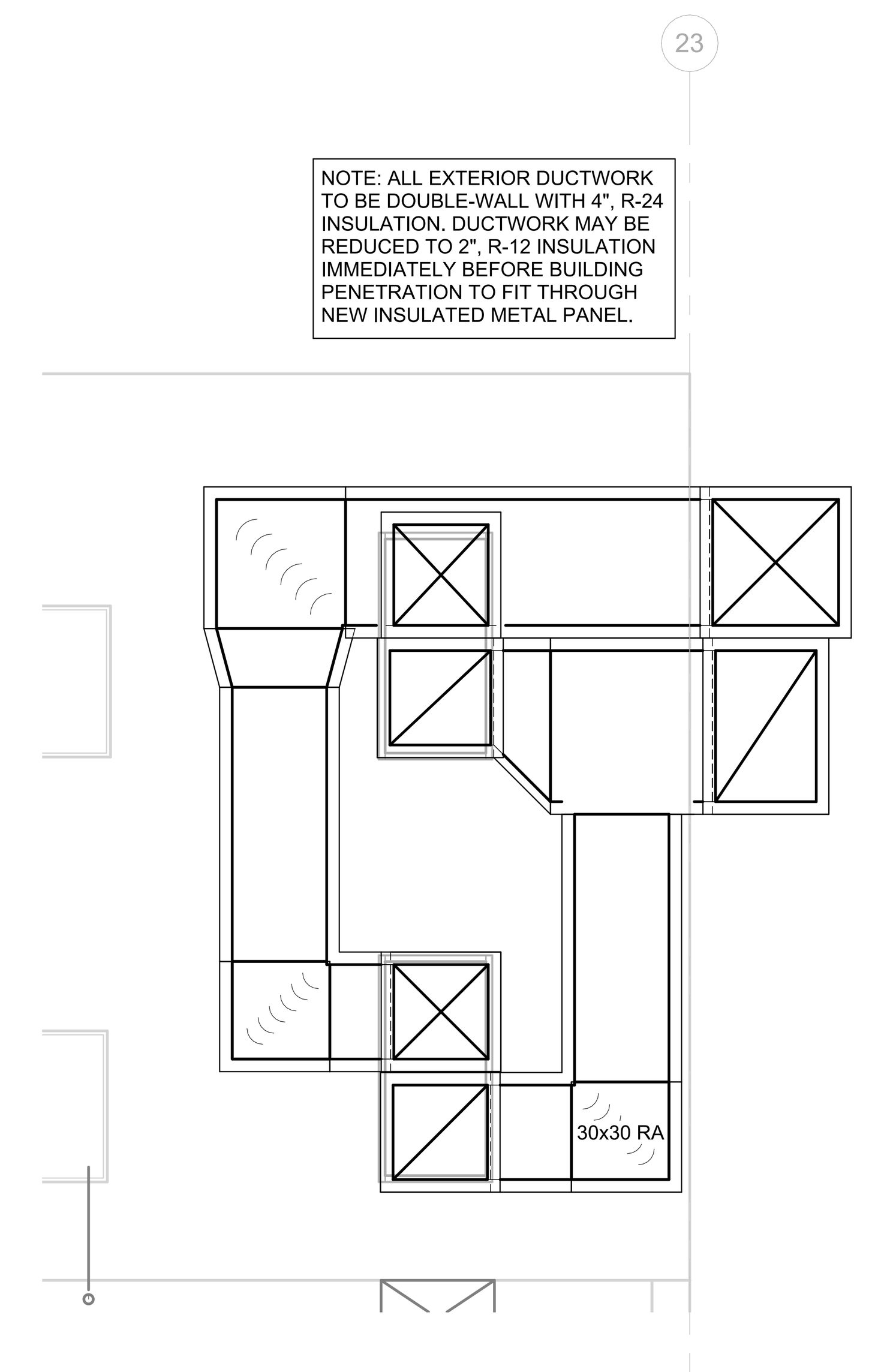


A6 BUILDING D AHU MECHANICAL PLAN
1/4" = 1'-0"

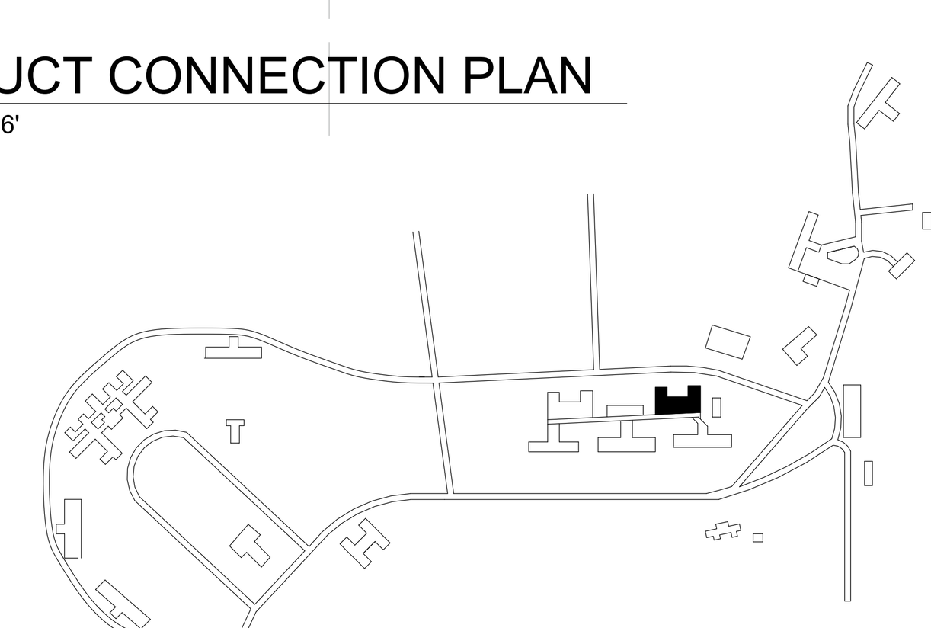




E6 BUILDING D AHU DUCT RISER & WALL PENETRATION PLAN
1/4" = 1'-0"



G6 BUILDING D AHU DUCT CONNECTION PLAN
1/4" = 1'-0"



SHIVE-HATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

13-LINDEN C/D

Iowa Department of Administrative Services
1251 334th St, Woodward, IA 50276

ADD 03	06/02/2026	ADD-003	

DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

BUILDING C & D ENLARGED AHU PLANS

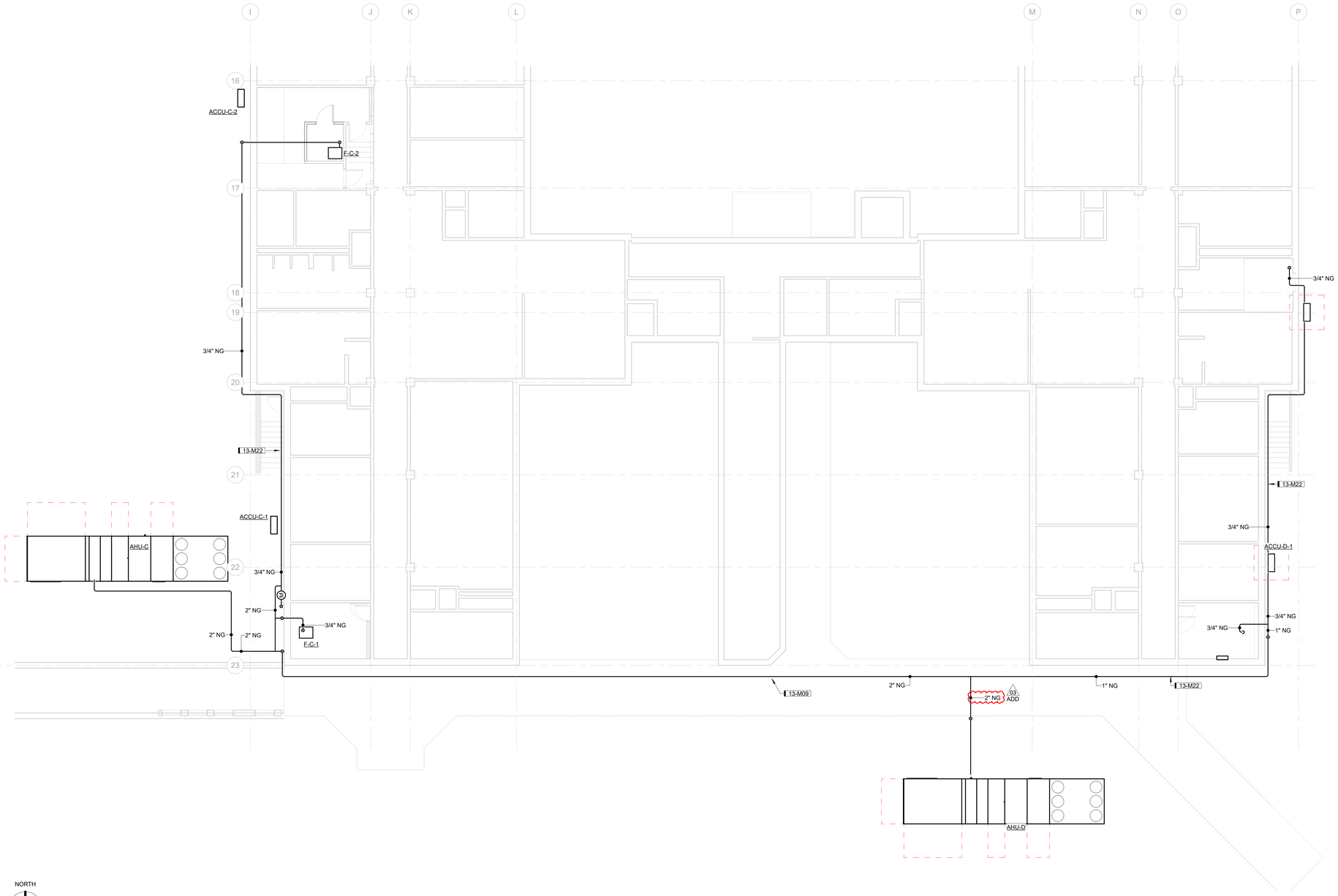
13-M400

Autodesk Revit 2022

KEYNOTES	
KEY	NOTE
13-M09	ROUTE NATURAL GAS PIPING UP TO CORRIDOR ROOF. ROUTE PIPING ON CORRIDOR ROOF TO AHU.
13-M22	TERMINATE EXHAUST SYSTEM WITH 3/4" HARDWARE CLOTH.

NOTE:

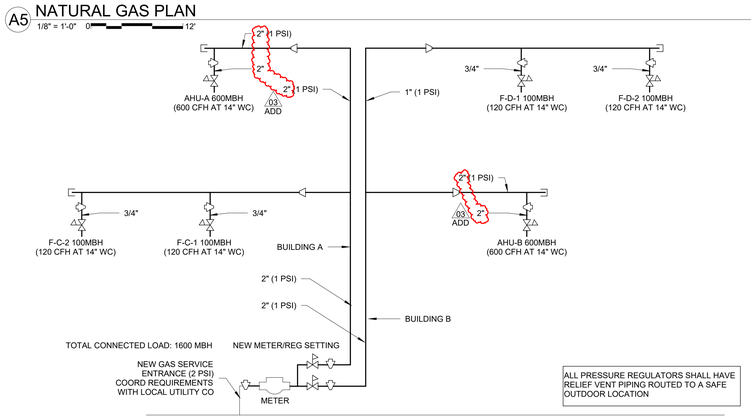
BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.



NORTH

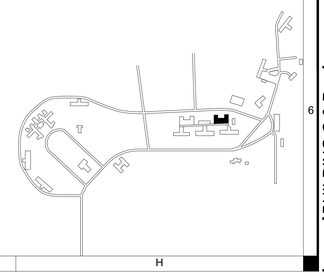
A5 NATURAL GAS PLAN

1/8" = 1'-0"



A6 Gas Piping Schematic

NOT TO SCALE



SHIVEHATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVEHATTERY.COM

WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

13-LINDEN C/D

Iowa Department of Administrative Services
1251 334th St, Woodward, IA 50276

ADD 03	06/02/20 ADD-003
	26
DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2020
PROJECT NUMBER	2240007040
FIELD BOOK	

BUILDING C & D NATURAL GAS PLAN

13-M402

UNIT HEATER SCHEDULE - ELECTRIC

REMARKS:
1. OR ENGINEER APPROVED EQUIVALENT
2. TO BE INSTALLED WITH MANUFACTURER'S SPECIFIED WALL MOUNTING BRACKETS
3. UNIT SHALL HAVE MANUFACTURER'S INTEGRAL TAMPER-PROOF THERMOSTAT WITH DDC INTEGRATION CAPABILITIES.
4. UNIT SHALL HAVE MANUFACTURER'S VANDAL-PROOF COVER.
5. ALL ELECTRIC UNIT HEATERS SHALL HAVE TWO-STAGE HEAT.

MARK	AREA SERVED	CFM	EAT (°F)	ELECTRICAL DATA KW	VOLTS	PHASE	FLA	DESIGN BASIS
EUH-C-1-1	STAIRS 258	500	45	4	480	3	8.3	BERKO CUH935
EUH-C-1-2	CORRIDOR 158	500	45	4	480	3	7.5	BERKO CUH935
EUH-C-1-3	STAIRS 261	500	45	4	480	3	8.3	BERKO CUH935
EUH-C-1-4	ENTRY VESTIBULE B42	500	45	4	480	3	7.5	BERKO CUH935
EUH-C-1-5	RAMP B37	500	45	4	480	3	8.3	BERKO CUH935
EUH-C-2-1	STAIRS B35	500	45	4	480	3	8.3	BERKO CUH935
EUH-C-2-2	CORRIDOR 58	500	45	4	480	3	7.5	BERKO CUH935
EUH-C-2-3	STAIRS 252	500	45	4	480	3	8.3	BERKO CUH935
EUH-C-2-4	SPACE 337	500	45	4	480	3	8.3	BERKO CUH935
EUH-C-B-1	SPACE 51	500	45	4	480	3	7.5	BERKO CUH935
EUH-C-B-2	SPACE 52	500	45	4	480	3	8.3	BERKO CUH935
EUH-CD-3	TUNNEL 161	1000	45	8	480	3	11	BERKO CUH945
EUH-CD-5	CORRIDOR 161	1000	45	8	480	3	11	BERKO CUH945
EUH-CD-6	CORRIDOR 161	1000	45	8	480	3	11	BERKO CUH945
EUH-CD-ST4	STEAM TUNNEL	1000	45	8	480	3	11	BERKO CUH945
EUH-CD-ST5	STEAM TUNNEL	1000	45	8	480	3	11	BERKO CUH945
EUH-D-1-1	STAIRS 259	500	45	4	480	3	8.3	BERKO CUH935
EUH-D-1-2	CORRIDOR 158	500	45	4	480	3	7.5	BERKO CUH935
EUH-D-1-3	STAIRS 260	500	45	4	480	3	8.3	BERKO CUH935
EUH-D-1-4	ENTRY VESTIBULE B42	500	45	4	480	3	7.5	BERKO CUH935
EUH-D-2	SPACE 52	500	45	4	480	3	8.3	BERKO CUH935
EUH-D-2-1	STAIRS 255	500	45	4	480	3	8.3	BERKO CUH935
EUH-D-2-2	CORRIDOR 58	500	45	4	480	3	7.5	BERKO CUH935
EUH-D-2-3	STAIRS 253	500	45	4	480	3	8.3	BERKO CUH935
EUH-D-B-1	SPACE 51	500	45	4	480	3	7.5	BERKO CUH935
EUH-FS-3	CONNECTING CORRIDOR	1000	45	8	480	3	11	BERKO CUH945
EUH-FS-4	CONNECTING CORRIDOR	1000	45	8	480	3	11	BERKO CUH945
EUH-FS-ST3	STEAM TUNNEL	1000	45	8	480	3	11	BERKO CUH945

DIFFUSERS REGISTERS AND GRILLES SCHEDULE

REMARKS:
1. COORDINATE MOUNTING STYLE WITH MOUNTING SURFACE.

MARK	MATERIAL	DESCRIPTION	FACE SIZE	FACTORY FINISH	DESIGN BASIS
A	ALUMINUM	SQUARE PLAQUE	24"x24"	WHITE	TITUS OMNI
B	ALUMINUM	1/2" X 1/2" X 1/2" EGGCRATE	SEE PLANS	WHITE	TITUS 50F
C	ALUMINUM	1/2" SPACING, 45° DEFLECTION	24"x12"	WHITE	TITUS 4FL
D	ALUMINUM	AEROBLADE SUPPLY DIFFUSER WITH 3/4" BLADE SPACING	SEE PLANS	WHITE	TITUS 272FL
E	ALUMINUM	3/4" SPACING SHORT BLADE RETURN GRILLE	SEE PLANS	WHITE	TITUS 350RL
F	ALUMINUM	LINEAR SLOT DIFFUSER, 1" 1-SLOT, HIGHTHROW, SURFACE MOUNT, BORDER TYPE 22	SEE PLANS	WHITE	TITUS FL-10

VRF AIR COOLED CONDENSING UNIT SCHEDULE

REMARKS:
1. PROVIDE SYSTEM WITH INTEGRAL DRAIN PAN HEATER VIA HOT GAS PIPING. IF ELECTRICAL PAN HEATER IS PROVIDED IN LIEU OF HOT GAS ALL ELECTRICAL CONNECTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST.
2. VRF SYSTEM SHALL MAINTAIN CONTINUOUS HEATING DURING DEFROST OPERATION. REVERSE CYCLE DEFROST OPERATION SHALL NOT BE PERMITTED.
3. VRF SYSTEM SHALL MAINTAIN CONTINUOUS HEATING DURING OIL RETURN OPERATION.
4. PROVIDE UNIT WITH SNOW GUARDS.
5. DISCONNECT SWITCH SHALL BE PROVIDED AND INSTALLED BY E.C.
6. CIRCUIT REFRIGERANT VOLUME SHALL NOT EXCEED 20 LBS.

MARK	SYSTEM SERVED	CAPACITY (MBH)	HEATING CAPACITY (MBH)	AMBIENT TEMPERATURE (°F) DESIGN	MIN	# OF COMPRESSORS	SEER	EER2	ELECTRICAL DATA VOLTS	PHASE	MCA	MOCP	REFRIGERANT TYPE	LBS	CONSTRAINTS (LESS CURB) OPERATING WEIGHT (LBS)	DESIGN BASIS
ACCU-D-1	HP-D-1	36	40	95	0	1	16.9	11.8	208	1	34.6	40	R-32	8	234	DAIKIN RZA36AACJU
ACCU-D-2	HP-D-2	36	40	95	0	1	16.9	11.8	208	1	34.6	40	R-32	8	234	DAIKIN RZA36AACJU
ACCU-D-3	HP-D-3	36	40	95	0	1	16.9	11.8	208	1	34.6	40	R-32	8	234	DAIKIN RZA36AACJU

VRF INDOOR UNIT SCHEDULE

REMARKS:
1. INDOOR UNIT SHALL MAINTAIN SCHEDULED CAPACITY REGARDLESS OF OUTDOOR AIR TEMPERATURE.
2. DISCONNECT SWITCH SHALL BE PROVIDED AND INSTALLED BY E.C.
3. PROVIDE WITH INTEGRAL CONDENSATE PUMP.

MARK	CFM	ESP (IN WC)	COOLING DATA TOTAL MBH	HEATING DATA OUTPUT MBH	ELECTRICAL DATA VOLTS	PHASE	MCA	MOCP	DESIGN BASIS
HP-D-1	795	0.8	36	40	208	1	3	15	DAIKIN FBA36
HP-D-2	795	0.8	36	40	208	1	3	15	DAIKIN FBA36
HP-D-3	795	0.8	36	40	208	1	3	15	DAIKIN FBA36

VAV BOX SCHEDULE

REMARKS:
1. OR ENGINEER PRE-APPROVED EQUIVALENT
2. PROVIDE WITH FACTORY INSTALLED DOOR INTERLOCK DISCONNECT SWITCH.
3. REFER TO PLANS FOR CONTROL BOX ORIENTATION.
4. MAXIMUM BOX HEIGHT INCLUDING CONTROL BOX NOT TO EXCEED 18"

MARK	UNIT SIZE	CFM COOLING MAX	MIN CFM	HEATING MAX	MAX NC	HEATING COIL DATA APD (IN)	AIR TEMPERATURE EAT °F	LAT °F	ELECTRICAL VOLTS	PHASE	KW	MOP	MCA	DESIGN BASIS	REMARKS
VAV-C1W	16	2160	1390	1900	24	0.1	60	95	480	3	21	35 A	31.6 A	TITUS DESV	1,2,3
VAV-C2W	16	2810	1365	2810	22	0.07	60	88	480	3	25	40 A	37.6 A	TITUS DESV	1,2,3
VAV-C-24	12	1250	700	1100	24	0.1	60	95	480	3	12	20 A	18 A	TITUS DESV	1,2,3,4
VAV-C-71	14	1540	370	1600	21	0.1	60	94	480	3	15	25 A	22.6 A	TITUS DESV	1,2,3,4
VAV-C-72	14	2335	985	2100	21	0.1	60	95	480	3	23	35 A	34.6 A	TITUS DESV	1,2,3,4
VAV-C-101	14	1540	370	1400	21	0.1 (03 ADD)	60	94	480	3	15	25 A	22.6 A	TITUS DESV	1,2,3,4
VAV-C-154	12	890	710	890	22	0.06	60	92	480	3	9	15 A	13.5 A	TITUS DESV	1,2,3,4
VAV-C-156	14	2310	850	1900	23	0.16	60	95	480	3	21	35 A	31.6 A	TITUS DESV	1,2,3,4
VAV-D1E	16	1915	1420	1915	17	0.09	60	93	480	3	20	35 A	30.1 A	TITUS DESV	1,2,3
VAV-D2E	16	2375	1295	2100	21	0.12	60	95	480	3	23	35 A	34.6 A	TITUS DESV	1,2,3
VAV-D-46	14	2040	370	1850	21	0.1	60	95	480	3	20	35 A	30.1 A	TITUS DESV	1,2,3,4
VAV-D-56	14	2365	730	2100	24	(03 ADD) 0.1	60	95	480	3	23	35 A	34.6 A	TITUS DESV	1,2,3,4
VAV-D-92	14	2040	730	1850	23	0.1	60	94	480	3	20	35 A	30.1 A	TITUS DESV	1,2,3,4
VAV-D-93	14	1760	370	1600	21	0.1	60	94	480	3	17	30 A	25.6 A	TITUS DESV	1,2,3,4
VAV-D-188	12	890	690	790	22	0.1	60	94	480	3	8.5	15 A	12.8 A	TITUS DESV	1,2,3,4
VAV-D-240	12	1250	695	1100	24	0.1 (03 ADD)	60	95	480	3	12	20 A	18 A	TITUS DESV	1,2,3,4

ENERGY RECOVERY VENTILATOR SCHEDULE

REMARKS:
1. UNIT SHALL HAVE FACTORY-MOUNTED DISCONNECT SWITCH.
2. UNIT HSALL HAVE MERV 8 FILTERS IN OA AND RA SECTIONS.

MARK	SUPPLY FAN DATA CFM	ESP (IN WC)	BHP	HP	EXHAUST FAN DATA CFM	ESP (IN WC)	BHP	HP	SUMMER OPERATION OUTSIDE AIR EAT (°F) DB	WB	EXHAUST AIR EAT (°F) DB	WB	TEMPERED AIR LAT (°F) DB	WB	EFFECTIVENESS	TOTAL REC MBH	WINTER OPERATION OUTDOOR AIR EAT (°F) DB	WB	EXHAUST AIR EAT (°F) DB	WB	TEMPERED AIR LAT (°F) DB	WB	EFFECTIVENESS	TOTAL REC MBH	ELECTRICAL DATA VOLTS	PHASE	MCA	MOCP	DESIGN BASIS	APPLICABLE REMARKS
ERV-D-1	400	0.7	0.16	.75	400	0.7	0.22	.75	95	76	75	62	75	65	81.5	20.8	-10	-11	72	55	57	46	83.3	36	120	1	21	25	GREENHECK MINIVENT-750-VG	

LOUVER SCHEDULE

REMARKS:
1. OR ENGINEER PRE-APPROVED EQUIVALENT
2. LOUVER TO BE CUSTOM COLOR SELECTED BY ARCHITECT DURING THE SUBMITTAL PROCESS. (01 ADD)

MARK	SYSTEM SERVED	CFM	DIMENSIONS (IN) W	H	D	FREE AREA VELOCITY (FPM)	PRESSURE DROP (IN WG)	DESIGN BASIS
L-D-1	ERV-D-1	400	40	16	4	180	0.01	GREENHECK ESD-435

AIR COOLED CONDENSING UNIT SCHEDULE

REMARKS:
1. OR ENGINEER APPROVED EQUIVALENT.
2. TO BE WALL MOUNTED WITH MANUFACTURER APPROVED MOUNTING BRACKETS.
3. DISCONNECT TO BE PROVIDED BY ELECTRICAL CONTRACTOR.

MARK	SYSTEM SERVED	CAPACITY (MBH)	COND AMBIENT AIR TEMP (°F)	MINIMUM OPERATING AMBIENT TEMPERATURE	NUMBER OF COMPRESSORS	SEER	EER	ELECTRICAL DATA VOLTS	PHASE	MCA	REFRIGERANT TYPE	DESIGN BASIS
ACCU-C-1	F-C-1	53.5	95	0	1	16.2	9	208	1	37.5	R-32	DAIKIN DC6VSS6010
ACCU-C-2	F-C-2	53.5	95	0	1	16.2	9	208	1	37.5	R-32	DAIKIN DC6VSS6010

FURNACE SCHEDULE - GAS

REMARKS:
1. OR ENGINEER APPROVED EQUIVALENT.
2. LITTLE GIANT CONDENSATE PUMP TO BE PROVIDED AND ROUTED BY MECHANICAL CONTRACTOR.
3. MOTORIZED OA DAMPER TO BE PROVIDED AND INSTALLED BY CONTROLS CONTRACTOR.

MARK	OA CFM	CFM	ESP (IN WC)	AIRFLOW DIRECTION	COOLING COIL DATA TOTAL MBH	EAT (°F) DB	WB	LAT (°F) DB	WB	MODEL	HEATING DATA EAT (°F)	LAT (°F)	INPUT MBH	MINIMUM GAS PRESSURE	AFUE	ELECTRICAL DATA VOLTS	PHASE	DESIGN BASIS
F-C-1	200	2000	1	UPFLOW	60	95	75	58	58	CAPEA6030D3	55	100	100	14	96	120	1	DAIKIN DR96TC1005DN
F-C-2	200	2000	1	UPFLOW	60	95	75	58	58	CAPEA6030D3	55	100	100	14	96	120	1	DAIKIN DR96TC1005DN

AIR HANDLING UNIT SCHEDULE

REMARKS:
1. OR ENGINEER PRE-APPROVED EQUIVALENT
2. UNIT SHALL HAVE SINGLE POINT POWER CONNECTION, FACTORY-POWERED CONVENIENCE OUTLET, AND FACTORY MOUNTED DISCONNECT SWITCH.
3. UNIT SHALL HAVE HOT GAS REHEAT COIL
4. COOLING COIL SHALL HAVE STAINLESS STEEL DRAIN PAN.
5. UNIT SHALL HAVE 2" MERV 8 PRE-FILTER WITH DIRTY FILTER SWITCH INSTALLED AT EACH FILTER SECTION.
6. LEAD COMPRESSOR ON EACH AHU SHALL BE VARIABLE SPEED.
7. UNIT SHALL HAVE SMOKE DETECTORS PROVIDED AND INSTALLED IN THE SUPPLY AND RETURN DUCTS BY THE E.C. AND INTEGRATED INTO THE DDC AND FIRE ALARM SYSTEM.
8. MAXIMUM UNIT DIMENSIONS SHALL BE 96.5" W X 429" L X 102" H.
9. AHU TO HAVE ACCESS DOORS ON BOTH SIDES OF THE AHU.

MARK	AREA SERVED	SUPPLY CFM	MINIMUM OA (%)	SUPPLY FAN DATA SUPPLY FAN CFM	RPM	STATIC PRESSURE TOTAL (T.S.P.)	EXTERNAL (E.S.P.)	TYPE	SUPPLY FAN ELECTRICAL DATA BHP (TOTAL)	HP (EACH)	VOLTS	PHASE	SUPPLY FAN ARRAY	RELIEF FAN DATA RETURN FAN CFM	RPM	STATIC PRESSURE TSP	ESP	TYPE	RETURN FAN ELECTRICAL DATA BHP (TOTAL)	HP (EACH)	VOLTS	PHASE	RELIEF FAN ARRAY	DESIGN BASIS
AHU-C	BUILDING C	15000	20	15000	1708	3.06	1.5	CENTRIFUGAL DIRECT DRIVE ECM	12.3	5.1	460	3	2X2 (4)	12500	2211	2.4	1	CENTRIFUGAL DIRECT DRIVE ECM	8.5	5.5	460	3	1X2 (2)	DAIKIN DPSA060
AHU-D	BUILDING D	15000	20	15000	1708	3.06	1.5	CENTRIFUGAL DIRECT DRIVE ECM	12.3	5.1	460	3	2X2 (4)	12500	2211	2.4	1	CENTRIFUGAL DIRECT DRIVE ECM	8.5	5.5	460	3	1X2 (2)	DAIKIN DPSA060

AIR HANDLING UNIT SCHEDULE (CONTINUED)

MARK	AREA SERVED	COOLING COIL EAT (°F) DB	WB	LAT (°F) DB	WB	APD (IN WC)	REFRIGERANT TYPE	MBH	SENSIBLE MBH	REHEAT COIL MBH	EWT (°F)	LWT (°F)	APD (IN WC)	HEATING ELEMENT TYPE	EAT DB (°F)	LAT DB (°F)	APD (IN WC)	INPUT MBH	OUTPUT MBH	FINAL FILTER TYPE	DEPTH (IN)	FACE AREA	APD (IN WC)	ELECTRICAL DATA VOLTS	PHASE	MOCP	MCA	DESIGN BASIS
AHU-C	BUILDING C	79	65.6	51	50.9	0.6	R-32	645	459	309	51	70	0.22	NATURAL GAS	45	75	0.19	600	486	MERV 8	2	56.7	0.15	460	3	150 A	130.4 A	DAIKIN DPSA060
AHU-D	BUILDING D	79	65.6	51	50.9	0.6	R-32	645	459	309	51	70	0.22	NATURAL GAS	45	75	0.19	600	486	MERV 8	2	56.7	0.15	460	3	150 A	130.4 A	DAIKIN DPSA060

SHIVE-HATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

Iowa Department of Administrative Services
1251 334th St, Woodward, IA 50276

ADD 01	05/19/2026	ADD-001
ADD 03	06/02/2026	ADD-003

DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

MECHANICAL SCHEDULES

13-M600

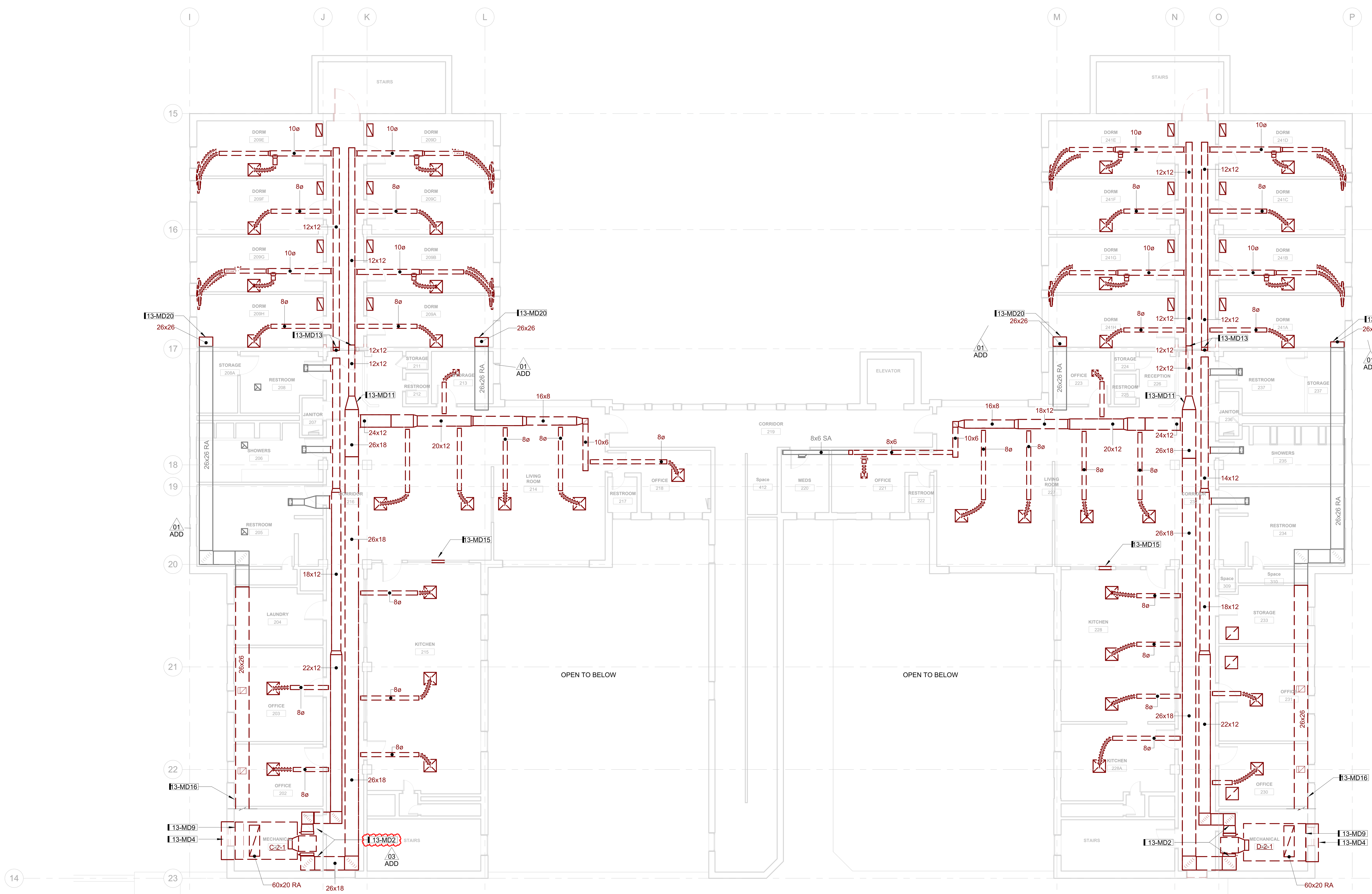
KEYNOTES

KEY	NOTE
13-MD2	DEMOLISH EXISTING DUCT HEATING COIL AND DUCTWORK INSIDE THE MECHANICAL ROOM.
13-MD4	DEMOLISH OA DUCTWORK BACK TO AHU. WALL PENETRATION TO BE REUSED FOR NEW OA DUCTWORK.
13-MD9	REMOVE EXISTING BLOWER COIL UNIT AND ASSOCIATED PIPING, OUTDOOR AIR DUCTWORK, AND CONTROLS. SUPPLY DUCTWORK TO REMAIN FOR RECONNECTION.
13-MD11	DEMOLISH EXISTING DUCTWORK AND ACCESSORIES IN THIS LOCATION. PREPARE DUCTWORK FOR NEW VAV AND DUCTWORK INSTALLATION.
13-MD13	REMOVE SECTION OF DUCTWORK FOR INSTALLATION OF NEW FIRE DAMPER. SEE NEW WORK PLANS
13-MD15	REMOVE EXISTING KITCHEN TRANSFER DUCT AND GRILLE. INFILL AND PAINT WALL TO MATCH ADJACENT WALL COLOR.
13-MD16	DEMOLISH EXISTING RETURN DUCT TO APPROXIMATE EXTENT INDICATED. DESIGN INTENT IS TO DEMOLISH RETURN DUCTWORK WHERE CEILING REPLACEMENT AND ABATEMENT IS OCCURRING.
13-MD20	DEMOLISH PORTION OF EXISTING RETURN DUCT AS INDICATED BACK TO WALL AND PREPARE DUCT FOR NEW CONNECTION. VERIFY TERMINATION POINT AND NOTIFY ENGINEER IF TERMINATION POINT DIFFERS FROM ANTICIPATED LOCATION.

01 ADD

NOTE:

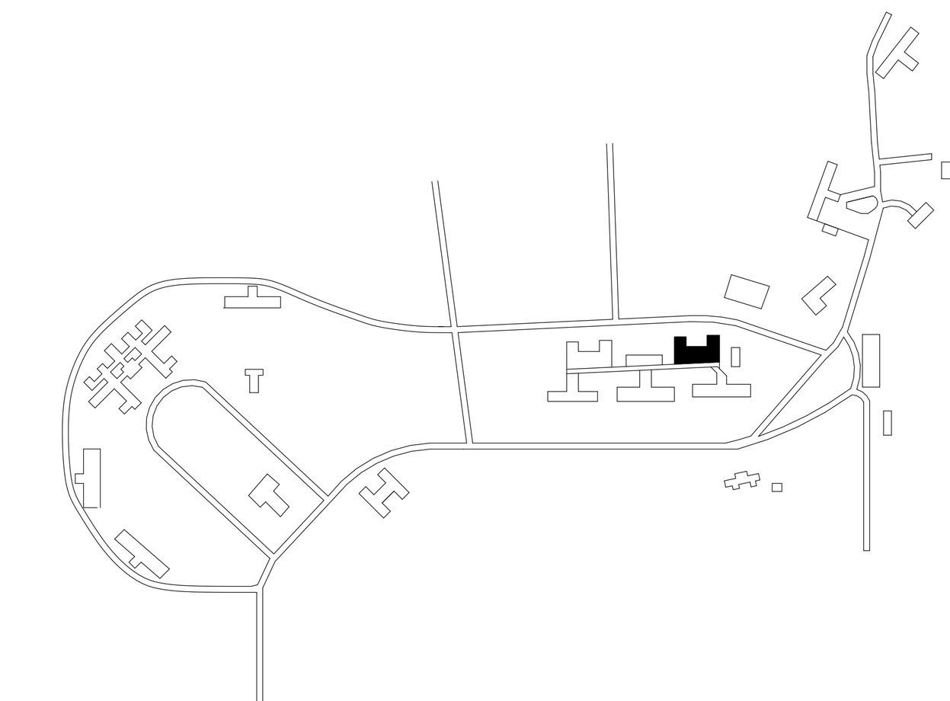
BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.



NORTH

A6 SECOND FLOOR MECHANICAL DUCTWORK DEMOLITION PLAN

1/8" = 1'-0"



SHIVE-HATTERY ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

13-LINDEN C/D

Iowa Department of Administrative Services
1251 334th St, Woodward, IA 50276

ADD 01	05/19/2026 ADD-001
ADD 03	06/02/2026 ADD-003

DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

SECOND FLOOR MECHANICAL DUCTWORK DEMOLITION PLAN

13-MD202