

AIR HANDLING UNIT SCHEDULE																																						
TAG	LOCATION	AREA SERVED	SUPPLY FAN SECTION				MOTOR DATA (per fan)				SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	COOLING COIL										HEATING COIL										FILTER		UNIT WEIGHT (LBS)	UNIT DIMENSION L x W x H (INCH)	BASED ON MANUFACTURER AND MODEL	REMARKS
			NO. OF FANS	CFM	E.S.P (IN. W.G.)	T.S.P. (IN. W.G.)	KW	RPM	V/PH	AIR				WATER				FACE AREA (SQ.ST)	MAX FPM	ROWS/FI N PER FT.	CAPACITY (MBH)	AIR		WATER				P.D. (FT)	FACE AREA (SQ.FT.)	ROWS/FI N PER FT.	PRE-FILTER	FINAL FILTER						
										EAT (DB (F))			WB (F)	DB (F)	WB (F)	FLOW (GPM)	EWT (F)					LWT (F)	P.D. (FT)	EAT (DB (F))	LAT (DB (F))	FLOW (GPM)	EWT (F)						LWT (F)					
AHU-5	BABCOX - 2ND FLR.	2ND FLOOR - MED CELL AREA	2	4,500	1.8		2.5	3153	480/3	167.49	118.72	80.0	67.0	55.6	55.2	34	45	55	3.8	10.41	432	4/12	178.9	30.0	66.8	17	180	159	3	22.5	1/6	MERV-8	MERV-13		195 x 114 x 50	ENGINEERED AIR	SEE NOTES	
AHU-7	BABCOX - 2ND FLR.	2ND FLOOR - JAIL ADMIN AREA	2	5,000	2.1		3.9	3490	480/3	172.1	115.80	77.0	66.0	55.3	54.8	35	45	55	3.2	9.3	533	8/6	236.9	40.0	86.3	26	180	161	1.8	9.3	1/12	MERV-8	MERV-13		137 x 55 x 42	ENGINEERED AIR	SEE NOTES	
NOTES: 1. UNIT SHALL HAVE 2" CASING. 2. PROVIDE OUTSIDE AND RETURN DAMPERS. 3. AHU CONSTRUCTION SHALL BE 2" R14 L/1150 THERMO-COMPOSITE CONSTRUCTION OR 4" ALL ALUMINUM CONSTRUCTION. SEE SPEC SECTION 237313 FOR DETAILS. 4. PROVIDE AIRFLOW MONITORING STATION ON OUTDOOR AIR INTAKE AND CONNECT BAS. 5. PROVIDE FREEZESTAT ON ALL HW AND CHW AHU COILS. REFER TO PUMP SCHEDULE FOR PUMP DETAILS AND DETAIL SHEETS FOR PIPING ARRANGMENT. 6. ALL UNITS TO MATCH DIMENSIONS IN THE SCHEDULE EXACTLY TO MAXIMIZE SPACE IN THE MECHANICAL ROOM. PROVIDE ALUMINUM TREADPLATE FLOOR FOR THE FOLLOWING SECTIONS: FAN SECTION, COIL SECTION, DAMPER SECTION, AND FILTER SECTION. 7. AHU-5 SHALL BE A DUAL DUCT AHU WITH (1) COLD DECK AND (1) NEUTRAL DECK WITH INNERGY TECH WRAP AROUND HEAT PIPE SYSTEM PER SPEC SECTION 237200. 8. PROVIDE DUAL DIRECT DRIVE PLENUM FANS. EACH FAN TO HAVE INDIVIDUAL VFD. PROVIDE A SEPARATE VFD FOR EACH FAN. 9. UNITS TO SHIP IN MODULES TO FIT IN THROUGH EXISTING WALL OPENING. 10. PROVIDE MIN. 6" CONCRETE BASE AND BASE RAILS UNDER ALL AHU'S. CONFIRM COOLING COIL DRAIN TRAP DIMENSIONS AND INSTALLATION PRIOR TO INSTALLATION OF CONCRETE BASE. 11. PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT. 12. THERE IS NO BACNET INTERFACE DEVICE FOR THIS UNIT. ALL CONTROLS ARE STICK-BUILT. SEE DIVISION 25 FOR DETAILS. ALL STICK-BUILT CONTROLS SHALL BE CONNECTED TO A UL-LISTED BAS PANEL TO MAINTAIN THE UL CHAIN OF CUSTODY FOR THE AHU. THE ONLY OTHER BACNET MS/TP NETWORKED DEVICE ON THE AHU IS THE AIRFLOW STATION. THIS DEVICE SHALL BE EBTRON GOLD BACNET MS/TP OR APPROVED EQUAL.... EQUAL: THIS DEVICE DOES NOT HAVE TO BE UL-LISTED AS IT IS NOT PART OF THE SMOKE CONTROL SEQUENCE. SEE DIVISION 25 BACNET SINGLE LINE DIAGRAM FOR DETAILS. 13. FOR AHU-5 SEE ADDITIONAL INFORMATION ON WRAP-AROUND HEAT PIPE SCHEDULE. 14. AIR FLOW STATIONS (AFSS) ALL AFSS SHALL COME WITH A BACNET MS/TP INTERFACE. THIRD PARTY GATEWAYS THAT ARE NOT FACTORY AUTHORIZED GATEWAYS ARE NOT ALLOWED IN THE WORK. NOTE THAT THE GATEWAY SHALL BE A FACTORY AUTHORIZED PRODUCT PROVIDED BY THE EQUIPMENT SUPPLIER. PROVIDE PROOF OF THIS DURING THE SUBMITTAL PROCESS. SEE DIVISION 25 FOR DETAILS ON THE BACNET OBJECT LIST TO BE PROVIDED AS BACNET AVS, BVS AND MSVS BY THE EQUIPMENT SUPPLIER. POINT NAMES AND DEVICE NAMES SHALL BE WRITABLE IN THE EQUIPMENT SUPPLIER'S BACNET INTERFACE DEVICE SO THE NAMES CAN BE CHANGED TO THE LAKE COUNTY STANDARD. DEVICES THAT DO NOT SUPPORT WRITABLE DEVICE AND POINT NAMES ARE NOT ALLOWED IN THE WORK. IF THERE ARE POINTS IN THE DEVICE THAT DO NOT APPLY TO THE WORK, THE EQUIPMENT SUPPLIER SHALL WORK ON SITE WITH THE LAKE COUNTY CONTROLS CONSULTANT TO IDENTIFY THOSE POINTS THAT DO NOT APPLY TO THE WORK. THEY SHALL BE DELETED FROM THE EQUIPMENT SUPPLIER'S BACNET INTERFACE DEVICE IF THEY ARE NOT USED IN THE WORK. DIVISION 25 IS RESPONSIBLE FOR NETWORKING TO THIS DEVICE. SEE DIVISION 25 FOR BACNET AND NETWORKING DETAILS. ALL NON-IP BAS WIRING SHALL BE IN BLUE CONDUIT. THE BASIS OF DESIGN FOR THIS DEVICE IS EBTRON. ALL AFSS SHALL COME WITH THE EQUIVALENT OF AN EBTRON GOLD GTC116 AFS OR APPROVED EQUAL. DIVISION 25 SHALL CONNECT THESE DEVICES TO A NEW MS/TP TRUNK OF DEVICES THAT IS IN TURN CONNECTED TO A NEW BACNET/TP PANEL. SEE DIVISION 25 BACNET SINGLE LINE DIAGRAM FOR DETAILS. THERE IS NO HARDWIRED CONNECTION TO THIS DEVICE. ALL DATA SHALL BE TRANSMITTED OVER THE BACNET MS/TP NETWORK.																																						

AHU-WRAP-AROUND HEAT PIPE SCHEDULE																						
TAG	LOCATION	AREA SERVED	CFM	PRE-COOL PERFORMANCE				WRAP COIL PERFORMANCE							RE-HEAT PERFORMANCE				HEAT RECOVERY (MBH)	MAX FACE VELOCITY (FPM)	BASED ON MANUFACTURER AND MODEL	REMARKS
				AIR				AIR				COOLING COIL			AIR							
				EAT	LAT				EAT	LAT		EWT/LWT	P.D.	EAT	LAT							
				DB (F)	WB (F)	DB (F)	WB (F)	DB (F)	WB (F)	DB (F)	WB (F)	(F)	GPM	(FT)	DB (F)	WB (F)	DB (F)	WB (F)				
AHU-5	BABCOX - 2ND FLR.	2ND FLOOR - MED CELL AREA	4500	80.0	67.0	64.9	62.0	64.9	62.0	54.9	54.7	44/55.4	18.9	7.8	54.9	54.7	70.0	60.3	73.47	332	ENGINEERED AIR	
NOTES: 1. REFER TO NOTES ON AHU SCHEDULE. 2. THERE IS NO BACNET INTERFACE DEVICE FOR THIS UNIT. ALL CONTROLS ARE STICK-BUILT. SEE DIVISION 25 FOR DETAILS. ALL STICK-BUILT CONTROLS SHALL BE CONNECTED TO A UL-LISTED BAS PANEL TO MAINTAIN THE UL CHAIN OF CUSTODY FOR THE AHU. THE ONLY OTHER BACNET MS/TP NETWORKED DEVICE ON THE AHU IS THE AIRFLOW STATION. THIS DEVICE SHALL BE EBTRON GOLD BACNET MS/TP OR APPROVED EQUAL. THIS DEVICE DOES NOT HAVE TO BE UL-LISTED AS IT IS NOT PART OF THE SMOKE CONTROL SEQUENCE. SEE DIVISION 25 BACNET SINGLE LINE DIAGRAM FOR DETAILS.																						

ENERGY RECOVERY UNIT																											
TAG	LOCATION	SERVICE	CFM	P.D. IN. WC SUPPLY	P.D. IN. EC EXHAUST	MAX FACE VELOCITY (FPM)	WINTER CONDITIONS								SUMMER CONDITIONS								DIMENSION H x W x L (INCH)	BASED ON MANUFACTURER	REMARKS		
							RETURN EAT		EXHAUST LAT		SUPPLY EAT		SUPPLY LAT		TOTAL EFFECTIVENESS	RETURN EAT		EXHAUST LAT		SUPPLY EAT		SUPPLY LAT				TOTAL EFFECTIVENESS...	
							*F DB	*F WB	*F DB	*F WB	*F DB	*F WB	*F DB	*F WB		*F DB	*F WB	*F DB	*F WB	*F DB	*F WB	*F DB					*F WB
ERU-5	2ND FLOOR MECH. ROOM	AHU-5	2000	0.3	0.67	242.0	70.0	56.7	23.0	23.0	-1.6	-2.0	45.8	39.9	62.27%	75.0	62.0	86.4	68.7	92.1	72.8	80.8	66.7	59.32%	60 x 58 x 56	DAIKIN - CAC006GVAC	SEE NOTES
NOTES: 1. PROVIDE WITH OUTSIDE AIR DAMPER. 2. ERU CONSTRUCTION SHALL BE 2" R14 U/1150 THERMO-COMPOSITE CONSTRUCTION OR 4" ALL ALUMINUM CONSTRUCTION. 3. PROVIDE INNERGY TECH TOTAL ENTHALPY PLATE PER SPEC SECTION 237200. 4. PROVIDE FILTERS ON BOTH SIDES OF THE ENTHALPY PLATE. 5. THERE IS NO BACNET INTERFACE DEVICE FOR THIS UNIT. ALL CONTROLS ARE STICK-BUILT. SEE DIVISION 25 FOR DETAILS. ALL STICK-BUILT CONTROLS SHALL BE CONNECTED TO A UL-LISTED BAS PANEL TO MAINTAIN THE UL CHAIN OF CUSTODY FOR THE AHU.																											

FAN SCHEDULE												
TAG	LOCATION	AREA SERVED	CFM	S.P. (IN. W.G.)	CONSTRUCTION DATA		ELECTRICAL DATA			UNIT WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
					FAN TYPE	DRIVE	HP	RPM	V / PH			
RF-5	2ND FLOOR MECHANICAL ROOM	AHU-5	2,250	0.50	INLINE	DIRECT	0.75	1,725	480/3	150	COOK - 165SQNH17D VF2	SEE NOTES
SF-5	2ND FLOOR MECHANICAL ROOM	AHU-5	2,000	1.50	INLINE	DIRECT	1.5	1,725	480/3	185	COOK - 180SQNH17D VF2	SEE NOTES
EF-5	2ND FLOOR MECHANICAL ROOM	AHU-5	1,850	1.75	INLINE	DIRECT	1.5	1,725	480/3	185	COOK - 180SQNH17D VF2	SEE NOTES
REF-7	2ND FLOOR MECHANICAL ROOM	AHU-7	4,000	0.75	INLINE	DIRECT	3.0	1,725	480/3	301	COOK - 210SQNH17D VF2	SEE NOTES
NOTES:												
1. EXHAUST FAN SHALL INCLUDE AN ELECTRICAL DISCONNECT SWITCH LOCATED AT UNIT.												
2. MOTOR VFD RATED WITH SHAFT GROUNDING PROTECTION.												
3. PROVIDE WITH VFD.												
4. PROVIDE WITH HANGERS & VIBRATORS ISOLATORS. ALONG WITH FLEXIBLE CONNECTIONS AT INLET AND OUTLET.												
5. CONNECT FANS TO EXISTING BMS.												
6. VFDS, EACH FAN MOTOR SHALL COME WITH A VFD THAT CAN BE INDEPENDENTLY CONTROLLED. ALL VFDS SHALL COME WITH A BACNET MS/TP INTERFACE. THIRD PARTY GATEWAYS THAT ARE NOT FACTORY AUTHORIZED GATEWAYS ARE NOT ALLOWED IN THE WORK. NOTE THAT THE GATEWAY SHALL BE A FACTORY AUTHORIZED PRODUCT PROVIDED BY THE EQUIPMENT SUPPLIER. PROVIDE PROOF OF THIS DURING THE SUBMITTAL PROCESS. SEE DIVISION 25 FOR DETAILS ON THE BACNET OBJECT LIST TO BE PROVIDED AS BACNET AVS, BVS AND MSVS BY THE EQUIPMENT SUPPLIER. POINT NAMES AND DEVICE NAMES SHALL BE WRITABLE IN THE EQUIPMENT SUPPLIER'S BACNET INTERFACE DEVICE SO THE NAMES CAN BE CHANGED TO THE LAKE COUNTY STANDARD. DEVICES THAT DO NOT SUPPORT WRITABLE DEVICE AND POINT NAMES ARE NOT ALLOWED IN THE WORK. IF THERE ARE POINTS IN THE DEVICE THAT DO NOT APPLY TO THE WORK, THE EQUIPMENT SUPPLIER SHALL WORK ON SITE WITH THE LAKE COUNTY CONTROLS CONSULTANT TO IDENTIFY THOSE POINTS THAT DO NOT APPLY TO THE WORK. THEY SHALL BE DELETED FROM THE EQUIPMENT SUPPLIER'S BACNET INTERFACE DEVICE IF THEY ARE NOT USED IN THE WORK. DIVISION 25 IS RESPONSIBLE FOR NETWORKING TO THIS DEVICE. SEE DIVISION 25 FOR BACNET AND NETWORKING DETAILS. ALL NON-IP BAS WIRING SHALL BE IN BLUE CONDUIT. THE BASIS OF DESIGN FOR THIS DEVICE IS ABB ACH580. ALL VFDS SHALL COME WITH THE EQUIVALENT OF AN ABB ACH580 ECLIPSE ELECTRONIC BYPASS OR APPROVED EQUAL. PROVIDE A SEPARATE DISCONNECT IF THE ELECTRONIC BYPASS DOES NOT TERMINATE POWER TO THE VFD SO IT CAN BE LOCKED OUT AND TAGGED OUT FOR SERVICE. APPROVED VFD SUPPLIERS ARE ABB, DANFOSS AND YASKAWA. THE VFD SHALL HAVE UL-APPROVED FIREMAN'S OVERRIDE CONTACTS SO DIVISION 26 CAN LAND FIRE ALARM CONTROL WIRING ON THESE CONTACTS TO MEET THE SMOKE CONTROL SEQUENCE OF OPERATIONS SPECIFIED IN THE CONTRACT DOCUMENTS. DIVISION 25 SHALL CONNECT THESE DEVICES TO A NEW MS/TP TRUNK OF DEVICES THAT IS IN TURN CONNECTED TO A NEW BACNET/TP PANEL. SEE DIVISION 25 BACNET SINGLE LINE DIAGRAM FOR DETAILS. DIVISION 25 SHALL PROVIDE HARDWIRED CONNECTIONS FOR VFD ENABLE, VFD SPEED AND VFD COMMON ALARM. ALL OTHER POINTS ARE TRANSMITTED OVER THE BACNET MS/TP NETWORK.												

PUMP SCHEDULE											
TAG	LOCATION	SYSTEM SERVED	TYPE	GPM	HEAD FT	MOTOR HP	RPM	V / PH	STARTER	MANUFACTURER AND MODEL	REMARKS
HWCP-5.1	BABCOX - 2ND FLOOR	AHU-5 HEATING COIL	INLINE	14	6	0.170	3,300	120/1	LINE	B & G - PL-50	SEE NOTES
HWCP-7.1	BABCOX - 2ND FLOOR	AHU-7 HEATING COIL	INLINE	14	6	0.170	3,300	120/1	LINE	B & G - PL-50	SEE NOTES
CHWCP-5.2	BABCOX - 2ND FLOOR	AHU-5 COOLING COIL	INLINE	12	12	0.170	3,300	120/1	LINE	B & G - PL-45	SEE NOTES
CHWCP-7.2	BABCOX - 2ND FLOOR	AHU-7 COOLING COIL	INLINE	12	12	0.170	3,300	120/1	LINE	B & G - PL-45	SEE NOTES
NOTES: 1. PROVIDE ECM MOTOR. 2. DIVISION 25 SHALL PROVIDE A STARTER EQUAL TO FRANKLIN BAS-1P TO ALLOW FOR HOA CONTROL. DIVISION 25 SHALL PROVIDE A CURRENT TRANSDUCER TO READ AMPS. SEE DIVISION 25 FOR DETAILS. ALL WIRING SHALL BE IN BLUE CONDUIT. DIVISION 25 SHALL PROVIDE BACNET MS/TP THERMOSTAT TO READ THE SPACE TEMPERATURE. SEE DRAWINGS FOR LOCATIONS. WHEN THERE IS A CALL FOR HEAT AND THE AMP READING IS ZERO FOR 2 MINUTES (ADJUSTABLE), GENERATE AN ALARM AT THE FRONT END. DIVISION 25 WILL USE THE CURRENT TRANSDUCER TO CALCULATE KW AND KWH. REPORT THIS DATA TO THE HEATING SYSTEM ENERGY DASHBOARD. PUMP SHALL RUN CONTINUOUSLY BELOW 55 DEGREES F. CONNECT TO THE MS/TP TRUNK OF DEVICES TO A NON UL-LISTED BACNET/TP PANEL. SEE DIVISION 25 BACNET SINGLE LING DIAGRAM FOR DETAILS. 3. REFER TO AHU SEQUENCE OF OPERATION FOR FREEZE PUMP OPERATION.											



Syska HENNESSY GROUP

A member company of SH Group, Inc.

Syska Hennessy Group, Inc.
10 S. Riverside Plaza
Suite 1810
Chicago, IL 60606
Tel: 312.588.3560
Fax: 312.588.3578
www.syska.com

CONSULTANTS:

Robert H. Babcox Justice Complex
20 South County Street
Waukegan, IL 60085
Medical Unit AHU Replacement

SEAL

5	09.18.2026	Addendum 01
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3	07.24.2026	Issued for Owner Review
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SCHEDULES

NUMBER:

1.M011

CONSULTANTS:

Robert H. Babcox Justice Complex
20 South County Street
Waukegan, IL 60085
Medical Unit AHU Replacement

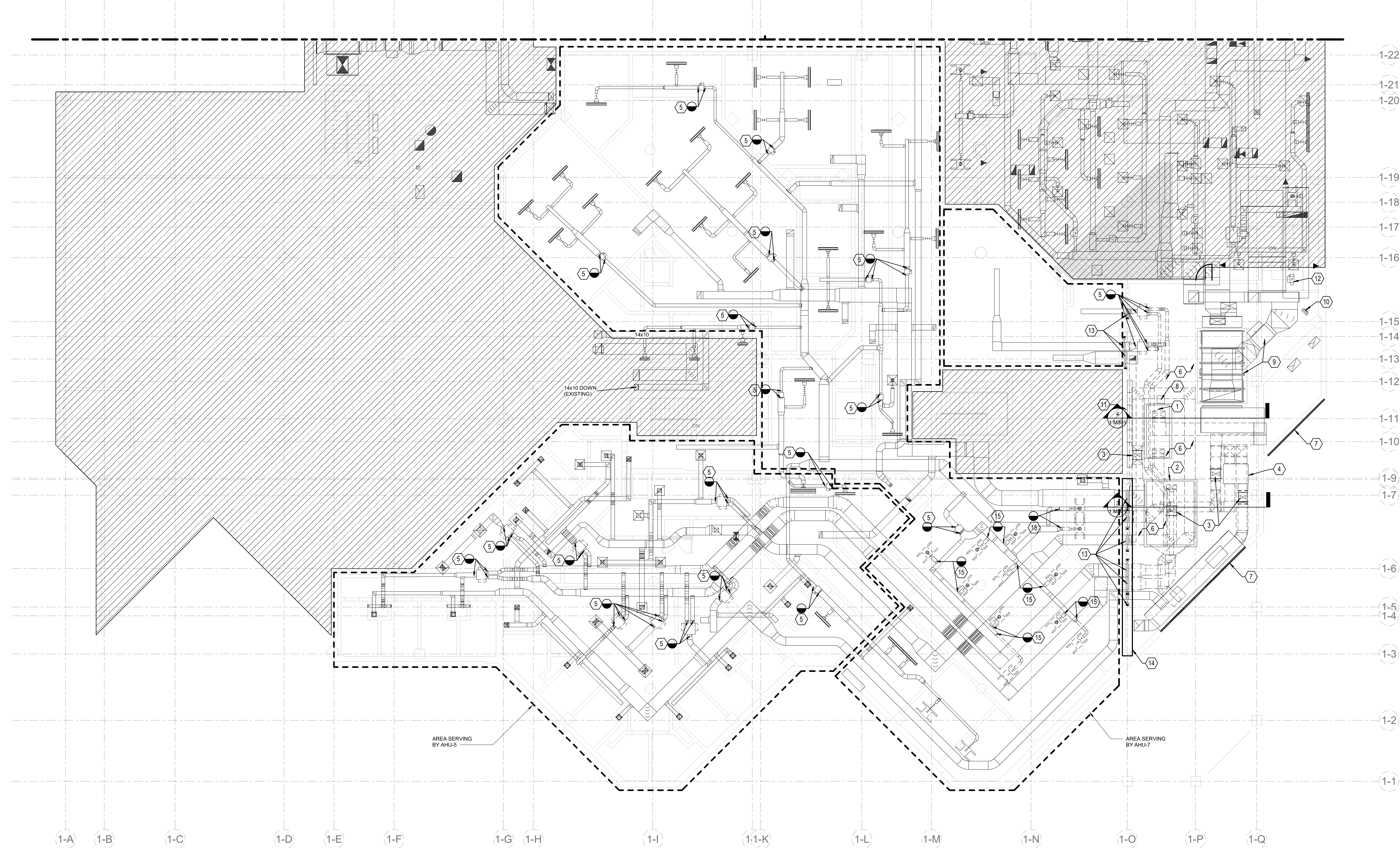
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SECOND LEVEL -
DUCTWORK
DEMOLITION PLAN -
AREA B

NUMBER:

1.MHD102B



1 LEVEL 2 - MECHANICAL DUCTWORK DEMOLITION PLAN - AREA B

1.MHD102B

SCALE: 1/8" = 1'-0"

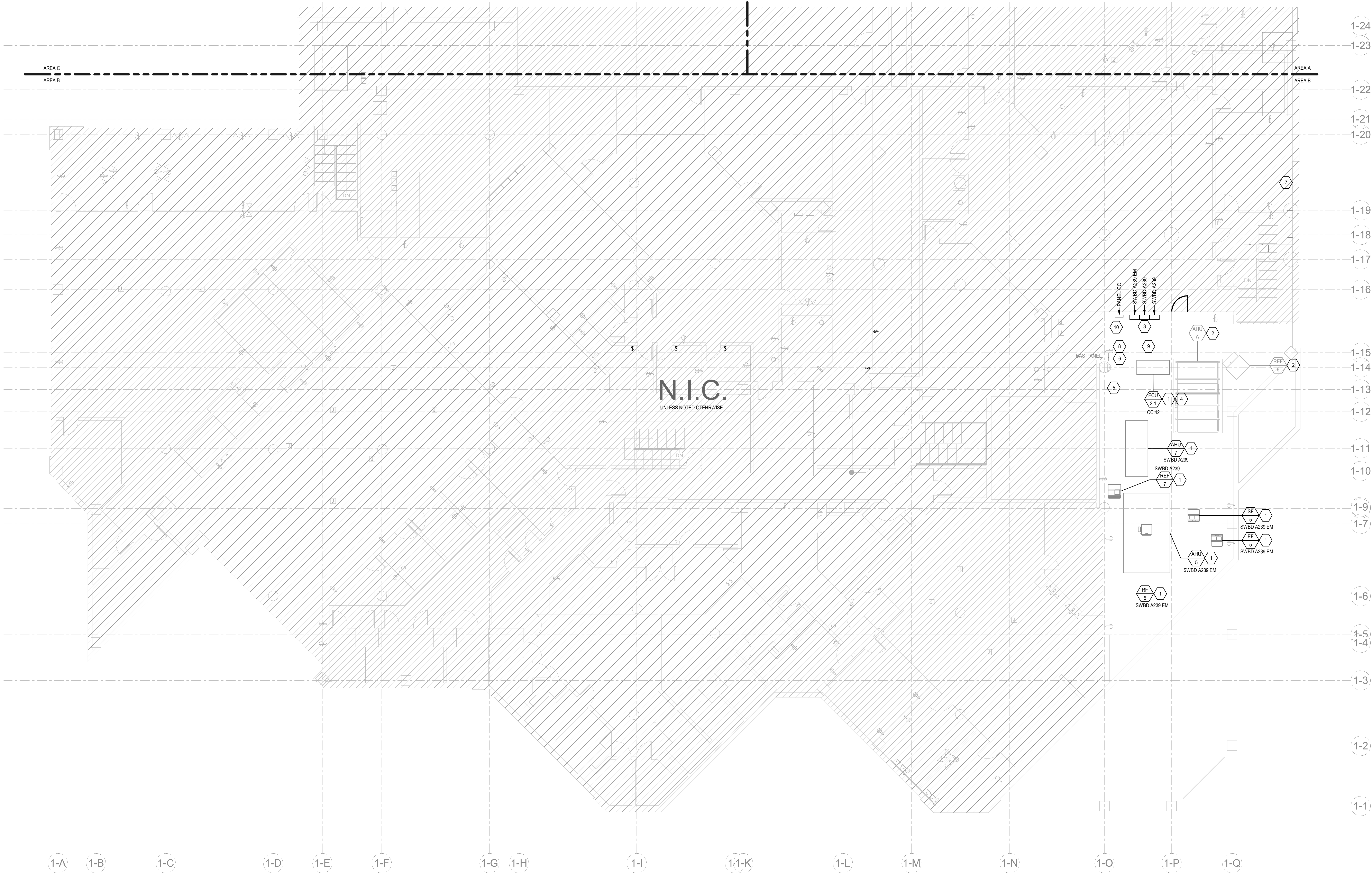
KEY NOTES:

- REMOVE EXISTING AHU-7 WITH ASSOCIATED CONCRETE PAD, CONTROLS, POWER AND ACCESSORIES.
- REMOVE EXISTING AHU-5 WITH ASSOCIATED CONCRETE PAD, CONTROLS, POWER AND ACCESSORIES.
- REMOVE EXISTING FANS WITH ASSOCIATED CONTROLS, POWER, ACCESSORIES, HANGERS AND SUPPORTS.
- REMOVE EXISTING ENERGY RECOVERY UNIT WITH ACCESSORIES AND SUPPORTS.
- REMOVE/REPLACE EXISTING DUAL VAV BOXES AND SINGLE VAV BOXES WITH ASSOCIATED CONTROLS AND ACCESSORIES. SEE NEW WORK. VERIFY FOR EXACT LOCATION OF EXISTING SENSOR/THERMOSTAT.
- REMOVE EXISTING DUCTWORK WITH ASSOCIATED HANGERS AND SUPPORTS.
- APPROXIMATE LOCATION OF EXISTING INTAKE AND EXHAUST LOUVERS. CONTRACTOR SHALL TEMPORARY REMOVE INCLUDING PLENUMS AS TO ALLOW TO BRING EQUIPMENT IN/OUT FROM THE SPACE. MODIFY AND REINSTALL AS REQUIRED. VERIFY FOR EXACT CONDITION AND LOCATION.
- REMOVE EXISTING HUMIDIFIER WITH ASSOCIATED CONTROLS, POWER, ACCESSORIES AND SUPPORTS. COORDINATE WITH PIPING DRAWING.
- APPROXIMATE LOCATION OF EXISTING AHU-6 AND REF-6 TO REMAIN. AHU-6 SERVES ACTIVE SPACES AND MUST REMAIN OPERATION DURING THE PROJECT.
- APPROXIMATE LOCATION OF EXISTING UNIT HEATER TO REMAIN.
- APPROXIMATE LOCATION OF EXISTING CONTROL PANEL TO REMAIN.
- REMOVE EXISTING ABANDONED TERMINAL UNIT WITH ASSESSOR, HANGERS AND SUPPORTS. COORDINATE WITH DEMO PIPING PLAN.
- EXISTING SMOKE/FIRE DAMPER TO REMAIN.
- CONTRACTOR SHALL CREATE AN OPENING DURING CONSTRUCTION SO THE CREW CAN STAY WITHIN A SECURED AREA DURING CONTORTION. OPENING WILL NEED TO BE CLOSED UP AFTER CONSTRUCTION IS COMPLETE.
- REMOVE AND REPLACE EXISTING LIGHT TROFFER DIFFUSERS WITH NEW 2x2 DIFFUSERS. SEE NEW WORK.

SHEET NOTES:

- PRIOR TO SHUT-DOWN OF ANY EXISTING SYSTEMS, CONTRACTOR MUST INFORM AND COORDINATE WITH BUILDING ENGINEER.
- CONTRACTOR SHALL RECOVER ALL CONTROLS COMPONENTS INTACT. THE OWNER WILL REVIEW THE RECOVERED EQUIPMENT AND WILL SALVAGE WHAT CAN BE USED. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL UNWANTED EQUIPMENT IN AN APPROVED MANNER.
- CONTRACTOR SHALL TEMPORARY REMOVE EXISTING LOUVER WITH ASSOCIATED DUCTWORK AS TO ALLOW TO BRING THE NEW EQUIPMENT THROUGH THE EXISTING OPENING. MODIFY AS REQUIRE.
- REPLACE THE EXISTING DUAL VAV BOX WITH NEW. SEE SCHEDULE.
- REMOVE AND REPLACE EXISTING DIFFUSER.
- CONTRACTOR SHALL REMOVE AND REPLACE EXISTING ACOUSTIC METAL PANEL SECURITY CEILING SYSTEM WITH NEW AS PART OF THIS PROJECT.
- CONTRACTOR TO PROVIDE TEMPORARY HVAC UNIT WHILE WORKING ON THE OLD UNITS. COORDINATE WITH OWNER FOR EXACT LOCATION OF TEMPORARY UNIT. EXTEND TEMPORARY DUCTWORK AND CONNECT TO EXISTING DUCT.
- CONTRACTOR SHALL COORDINATE WITH COUNTY FOR SEQUENCE OF DEMO AND NEW WORK.
- CONTRACTOR SHALL PRE-READ ALL EXISTING TERMINAL UNITS PRIOR TO DEMO. SUBMIT THE REPORTS TO OWNER AND ENGINEER.

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1 | SECOND LEVEL - ELECTRICAL POWER PLAN - AREA B

1.EP102B REF: SCALE: 1/8" = 1'-0"

KEY NOTES:

1. PROVIDE ELECTRICAL CONNECTION AND NEMA 1 DISCONNECT SWITCH AS REQUIRED FOR THE INDICATED MECHANICAL EQUIPMENT. DISCONNECT SWITCH TO HAVE AIC RATING EXCEEDING MAXIMUM EXISTING FAULT CURRENT AT EQUIPMENT. REFER TO EQUIPMENT FEEDER SCHEDULE, PANEL SCHEDULES, ONE LINE DIAGRAM, AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. EXISTING MECHANICAL EQUIPMENT TO REMAIN. SHOWN FOR REFERENCE ONLY.
3. MOTOR CONTROL CENTER IS TO BE REPLACED WITH NEW SQUARE D SWITCHBOARD TYPE QED-2 LV. NEW SWITCHBOARD IS TO BE SUPPLIED TRIP UNITS AS CURRENTLY SHOWN ON ONE LINE DIAGRAM.
4. NEW CONDENSATE PUMP REPLACING DEMOLISHED ONES ARE TO REUSE EXISTING 120V CONNECTION. PROVIDE NEW CONDUIT AND FEEDERS AS REQUIRED.
5. EXISTING VFDS ARE TO BE RELOCATED. MAINTAIN EXISTING POWER SOURCE. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. PROVIDE NEW CONDUIT AND FEEDERS AS REQUIRED FOR CONNECTION AT NEW LOCATION.
6. COORDINATE VAV BOX LOCATIONS AND LOW VOLTAGE DDC CONTROLS WITH MECHANICAL AND MANUFACTURER.
7. APPROXIMATE LOCATION OF FIRE ALARM CONTROL PANELS ON FLOOR BELOW. COORDINATE EXACT LOCATION IN FIELD PRIOR TO START OF WORK. PROVIDE CONTROL WIRING FOR FIRE DAMPERS ASSOCIATED WITH AHU-S. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
8. PROVIDE UPS POWER FOR BACNET/IP AND BACNET MS/TP PANELS, SMOKE DAMPERS, AND ASSOCIATED CONTROL DEVICES. COORDINATE FINAL LOCATION OF PANELS IN FIELD. SEE ONE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
9. PROVIDE AN IP NETWORK DIAGRAM FOR THE IP DROPS NEEDED IN THE WORK. PROVIDE A CLIENT DROP 3 FT. FROM THE BACNET/IP PANEL. PROVIDE A NEW UL-LISTED SWITCH FOR THE WORK. LOCATE PER LAKE COUNTY REQUIREMENTS. PROVIDE (2) IP DROPS IN MECHANICAL ROOMS FOR NEW ALC REV. 10 BAS PANEL. COORDINATE EXACT LOCATION WITH OWNER IN FIELD.
10. PROVIDE CONTEMPORARY CONTROLS EISW UNMANAGED SWITCH 8-PORT VERSION. SWITCH SHALL HAVE A NON UL-864 CONNECTION TO LAKE COUNTRY NETWORK. COORDINATE EXACT LOCATION OF SWITCH IN MECHANICAL ROOM WITH OWNER.

SHEET NOTES:

1. ELECTRICAL CIRCUIT NUMBERS ARE SHOWN FOR DESIGN INTENT ONLY. VERIFY CIRCUIT NUMBERING IN FIELD AND MAKE THE NECESSARY CHANGES. EACH 120V/20A CIRCUIT SHALL BE INSTALLED WITH 2#12, 1# 12G IN 3/4" C. U.N.O.
2. REFERENCE PANEL SCHEDULES ON 1.E011 SERIES DRAWINGS FOR CIRCUITING REQUIREMENTS. COORDINATE INSTALLATION REQUIREMENTS AND LOCATIONS WITH INSTALLER PRIOR TO ROUGH-IN.
3. COORDINATE MECHANICAL EQUIPMENT POWER REQUIREMENTS WITH MECHANICAL DRAWINGS. REFER TO EQUIPMENT FEEDER SCHEDULE ON SHEET 1.E011.
4. REFER TO SHEET 1.E000 FOR VOLTAGE DROP INFORMATION. REFER TO SHEETS 1.E002 FOR ELECTRICAL SPECIFICATIONS.
5. CONTRACTOR SHALL PROPERLY BALANCE LOADS BETWEEN PHASES FOR NEW WORK.
6. ALL ELECTRICAL JUNCTION BOX COVERS SHALL BE COLOR CODED PER BASE BUILDING STANDARDS. ALL JUNCTION BOX COVERS SHALL CONTAIN ADHESIVE LABELS DESIGNATING CIRCUIT NUMBER(S) AND PANEL(S).
7. ALL EQUIPMENT SHALL HAVE CODE REQUIRED CLEARANCE.
8. ALL RECEPTACLES AND ASSOCIATED CIRCUITRY SHALL BE 20 AMP RATED UNLESS NOTED OTHERWISE.
9. ALL LIGHT SWITCHES, THERMOSTATS AND FIRE ALARM DEVICES, LOCATED NEAR THE ENTRY WAY OF A ROOM, SHALL BE VERTICALLY CENTERED ON EACH OTHER.
10. ALL BAS WIRING IS TO BE IN BLUE CONDUIT.
11. COPPER IP CAN ONLY RUN 20 METERS (238 FEET). IF CABLE RUN EXCEEDS THIS DISTANCE, THE ADI PANEL SHALL BE PROVIDED WITH A MODBUS RTU DEVICE USING EIA-485 THAT CAN RUN UP TO 1200 METERS.

12. ALL IP DROPS FOR BAS OR ANY OTHER IP DEVICE EXCEPT SHERIFFS DEPARTMENT SHALL BE IN ORANGE CONDUIT.

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SECOND LEVEL -
ELECTRICAL POWER
PLAN - AREA B

NUMBER:

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Syska Hennessy Group, Inc.
10 S. Riverside Plaza
Suite 1810
Chicago, IL 60606
Tel: 312.588.3560
Fax: 312.588.3579
www.syska.com

Robert H. Babcox Justice Complex
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CHECKED BY:	Checker	
APPROVED BY:	Approver	
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TITLE:		

BASEMENT LEVEL -
FIRE ALARM PLAN -
COURTS TOWER

1.FA100D



1. CONTRACTOR TO RUN (2) CAT6 DATA LINE TO 2ND FLOOR MECHANICAL ROOM FROM NEW SMOKE CONTROL PANEL. COORDINATE EXACT ROUTE IN FIELD.
2. NEW SMOKE CONTROL PANEL TO TAKE UPS POWER FROM NEARBY SERVER ROOM DISTRIBUTION PANEL.
3. ADJ ADJ AND ALG PANELS TO BE FED FROM UPS POWER FROM COURT TOWER UPS SYSTEM. COORDINATE EXACT CIRCUIT IN FIELD.
4. PROVIDE AN IP NETWORK DIAGRAM FOR THE IP DROPS NEEDED IN THE WORK. PROVIDE (1) IP DROPS IN FIRE COMMAND CENTER ROOMS FOR NEW ALG REV. 10 BAS PANEL.

1. PROVIDE ALL WIRING REQUIRED BETWEEN FIRE ALARM SYSTEM AND BUILDING AUTOMATION SYSTEM
2. PROVIDE ALL PROGRAMMING OF THE FIRE ALARM SYSTEM AND BUILDING AUTOMATION SYSTEM.
3. ANY BAS WORK FOR THIS PROJECT SHALL BE DONE USING ALL LISTED EQUIPMENT AND INSTALLATION RESOURCES. REFER TO MECHANICAL AND DIVISION 25 FOR DETAILS.
4. ALL IP DROPS FOR BAS OR ANY OTHER IP DEVICE EXCEPT SHERIFF'S DEPARTMENT SHALL BE IN ORANGE CONDUIT.