



TRANSMITTAL

July 22, 2025

To: Mr. Clifford Halvorson
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Project Name: EHRM Infrastructure Upgrades – Tier 2
Contract No.: 36C26319D0044
Station Project No.: 437-21-210
Bancroft-AE No.: 22-113

We Transmit:	For Your:	Response Required:
<input type="checkbox"/> Attached	<input checked="" type="checkbox"/> Approval	<input type="checkbox"/> Yes
<input type="checkbox"/> Under Separate Cover	<input type="checkbox"/> Review/Comment	<input checked="" type="checkbox"/> No
<input type="checkbox"/> Via US Mail	<input type="checkbox"/> Use	
<input type="checkbox"/> Via FedEx	<input checked="" type="checkbox"/> Record/File	
<input checked="" type="checkbox"/> Electronic		

Contents:
Electronic Submittal Documents for the Document Clarification

Addendum#1_Drawing M-600 – Updated CRAC schedule to indicate -30F low ambient operation.
Addendum#1_Above Air Technologies technical manual for MC2 DX units.

Action Required: Submitted for VA approval / record / file.

Please contact me directly if you have any questions or concerns regarding this submittal.

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Bancroft Architects + Engineers

Cc: Project File

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COMPUTER ROOM AC UNIT SCHEDULE

GENERAL										FANS								REHEAT SECTION			HUMIDIFIER SECTION		FILTERS		ELECTRICAL DATA					NOTES
EQUIPMENT TAG	LOCATION	AREA SERVED	MANUFACTURER BASIS OF DESIGN	TYPE	DESIGN MODEL OR EQUIVLANT	PHYSICAL CHARACTERISTICS			CFM	MOTOR		CAPACITY STEPS	REFRIG. TYPE	NET TOTAL CAPACITY (MBH)	NET SENSIBLE CAPACITY (MBH)	EAT (DB°F/WB°F)	TYPE	STAGES	CAPACITY (KW)	TYPE	STEAM CAPACITY (LBS/HR)	TYPE	FLA	MCA	MOCP	PHASE	VOLT			
						DIMENSIONS (IN.)				WEIGHT (LBS.)	QTY.																	KW (EACH)		
D	W	H																												
CRAC-1	MAIN COMPUTER ROOM 4E-24	MCR 4E-24	ABOVE AIRE	DOWNFRONT FLOW	MCH-105D-3-HGHERH-EC-00-DF-2E	33	107	85	3,420	15,000	3	3.10	VARIABLE	R-410a	378.3	312.1	75/62.5	ELECTRIC	SCR	30	STEAM CANISTER	30.0	MERV 8	132.6	158.7	175	3	208	1, 2, 3, 4, 5, 6, 9	
CRAC-2	MAIN COMPUTER ROOM 4E-24	MCR 4E-24	ABOVE AIRE	DOWNFRONT FLOW	MCH-105D-3-HGHERH-EC-00-DF-2E	33	107	85	3,420	15,000	3	3.10	VARIABLE	R-410a	378.3	312.1	75/62.5	ELECTRIC	SCR	30	STEAM CANISTER	30.0	MERV 8	132.6	158.7	175	3	208	1, 2, 3, 4, 5, 6, 9	
CRAC-3	UPS ROOM BE-97	UPS BE-97	ABOVE AIRE	UPFRONT FLOW	MCH-035D-3-HGER0-EC-00-UF-1-2A	34	59	95	1,695	4,400	1	3.10	VARIABLE	R-410a	89.3	89.3	75/62.5	ELECTRIC	SCR	15	N/A	N/A	MERV 8	48.6	60.8	70	3	208	1, 2, 3, 4, 5, 6, 7, 8, 9	
CRAC-4	UPS ROOM BE-97	UPS BE-97	ABOVE AIRE	UPFRONT FLOW	MCH-035D-3-HGER0-EC-00-UF-1-2A	34	59	95	1,695	4,400	1	3.10	VARIABLE	R-410a	89.3	89.3	75/62.5	ELECTRIC	SCR	15	N/A	N/A	MERV 8	48.6	60.8	70	3	208	1, 2, 3, 4, 5, 6, 7, 8, 9	
NOTES: 1. OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUALS. 2. PROVIDE LOCKING DISCONNECT, STARTER, AND CONTROLLER WITH BACnet COMPATIBLE BY MANUFACTURER. 3. PROVIDE SUPPLY AIR SENSOR WITH MULTIPLE RETURN SENSORS FIELD VERIFY EXACT LOCATION. 4. PROVIDE SMOKE SENSOR WITH UNIT ALARM AND SHUTDOWN INCLUDE SUPERVISION CONTACTS 5. PROVIDE DUAL REFRIGERATION CIRCUITS WITH HOT GAS BYPASS AND MUFFLERS, DIGITAL SCROLL COMPRESSOR, AND COMPRESSORS TO INCLUDE CRANKCASE HEATER. 6. BMS CARD COMPATIBLE WITH CURRENT BUILDING CONTROL SYSTEM 7. EACH CRAC SHALL HAVE A LOCAL MONITORING PANEL AFFIXED TO THE UNIT ACCESSING THE FOLLOWING INFORMATION: SYSTEM AUTOMATIC RESTART WITH PROGRAMMABLE DELAY, SEQUENTIAL LOAD ACTIVATION, SENSOR CALIBRATION, CURRENT TEMPERATURE SET POINT AND LOCATION OF THAT SET POINT, CURRENT SUPPLY AND RETURN TEMPERATURE AND HUMIDITY, UNIT DIAGNOSTICS (FAN, VALVE, ALARM), ALARM LOG HISTORY, RUNTIME LOG, AUDIBLE AND VISUAL ALARM 8. 24" FLOOR STAND 9. LOW AMBIENT OPERATION TO -30F																														

DUCT FREE SPLIT SYSTEM SCHEDULE

EQUIPMENT TAG	BUILDING NO.	LOCATION	BASIS OF DESIGN	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	HEATING FLOW RATE (GPM)	ENTERING WATER TEMPERATURE (°F)	INDOOR UNIT																OUTDOOR UNIT												NOTES
								DESIGN MODEL OR EQUIVLANT	TYPE	WEIGHT (LBS)	DIMENSIONS (IN.)			AIRFLOW			FILTERS		ELECTRICAL DATA				EQUIPMENT TAG	DESIGN MODEL OR EQUIVLANT	LOCATION	WEIGHT (LBS)	COMPRESSOR			ELECTRICAL DATA						
											H	W	D	TOTAL CFM	EAT, D.B. (°F)	EAT, W.B. (°F)	TYPE	MCA	MOCP	PHASE	VOLTS	SIZE (TONS)					REF. TYPE	EAT (°F)	MCA	MOCP	PHASE	VOLTS				
CCU-BC50A-1	46	STORAGE ROOM BC-50A	MODINE	19.2	40.4	4.0	180	CSD18BACBNDM	CEILING CASSETTE	84	32.4	32.4	12	590	80	67	CLEANABLE	0.7	15	1	208	ACCU-BC-50A-1	YC2E18	ROOF	150	1.5	R-410A	90	11.8	20	1	208	1, 2, 3, 4, 5, 6, 7, 8			
CCU-BC50A-2	46	STORAGE ROOM BC-50A	MODINE	19.2	40.4	4.0	180	CSD18BACBNDM	CEILING CASSETTE	84	32.4	32.4	12	590	80	67	CLEANABLE	0.7	15	1	208	ACCU-BC-50A-2	YC2E18	ROOF	150	1.5	R-410A	90	11.8	20	1	208	1, 2, 3, 4, 5, 6, 7, 8			
CCU-BC-50B	46	SPLICE ENCLOSURE ROOM BC-50B	MODINE	19.2	40.4	4.0	180	CSD18BACBNDM	CEILING CASSETTE	84	32.4	32.4	12	590	80	67	CLEANABLE	0.7	15	1	208	ACCU-BC-50B	YC2E18	ROOF	150	1.5	R-410A	90	11.8	20	1	208	1, 2, 3, 4, 5, 6, 7, 8			
CCU-BC-60-1	46	TELEPHONE EQUIPMENT ROOM BC-50B	MODINE	19.2	40.4	4.0	180	CSD18BACBNDM	CEILING CASSETTE	84	32.4	32.4	12	590	80	67	CLEANABLE	0.7	15	1	208	ACCU-BC-60-1	YC2E18	ROOF	150	1.5	R-410A	90	11.8	20	1	208	1, 2, 3, 4, 5, 6, 7, 8			
CCU-BC-60-2	46	TELEPHONE EQUIPMENT ROOM BC-50B	MODINE	19.2	40.4	4.0	180	CSD18BACBNDM	CEILING CASSETTE	84	32.4	32.4	12	590	80	67	CLEANABLE	0.7	15	1	208	ACCU-BC-60-2	YC2E18	ROOF	150	1.5	R-410A	90	11.8	20	1	208	1, 2, 3, 4, 5, 6, 7, 8			
NOTES: 1. ACCEPTABLE MANUFACTURERS: VA APPROVED EQUALS 2. INDOOR UNIT SHALL BE INTERLOCKED TO OUTDOOR UNIT FOR POWER AND CONTROL WIRING. 3. FACTORY SHROUD FOR EXPOSED CEILING APPLICATION. 4. PROVIDE DIGITAL WALL STAT, NON-FUSED DISCONNECT, AND CONDENSATE PUMP. 5. PROVIDE THE FOLLOWING FACTORY INSTALLED ACCESSORIES FOR THE OUTDOOR UNIT: LOW AMBIENT KIT 6. MERV 10 FILTER AND SPARE 7. BACNET CARD 8. INDOOR UNITS PROVIDED WITH HEATING WATER COILS																																				

ELECTRIC SUSPENDED HEATER SCHEDULE

GENERAL			MANUFACTURER BASIS OF DESIGN	DESIGN MODEL OR EQUIVLANT	HEATER			FAN DATA		ELECTRICAL DATA			NOTES
EQUIPMENT TAG	LOCATION	TYPE			KW	PHASE	VOLT	TYPE	CFM	AMPS	PHASE	VOLT	
EUH-1	BUILDING 1 GENERATOR ROOM BE-98	SUSPENDED HORIZONTAL	MODINE	HER200	20	3	208	PROP.	1300	55.6	3	208	1,2,3,4
EUH-2	BUILDING 1 GENERATOR ROOM BE-98	SUSPENDED HORIZONTAL	MODINE	HER200	20	3	208	PROP.	1300	55.6	3	208	1,2,3,4
NOTES: 1. OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUAL 2. DISCONNECT SWITCH. 3. MOUNTING KIT TO MATCH MOUNTING REQUIREMENTS. 4. FAN DELAY SWITCH.													

EXHAUST / SUPPLY FAN SCHEDULE

EQUIPMENT TAG	LOCATION	AREA SERVED	MANUFACTURER BASIS OF DESIGN	DESIGN MODEL OR EQUIVLANT	TYPE	DRIVE	CFM	ESP (IN.)	MAXIMUM SONES	FAN RPM	BHP	MOTOR				WEIGHT	CONTROL TYPE	NOTES
												HP	RPM	PHASE	VOLT			
EFG-1	GENERATOR ROOM	GENERATOR ROOM	GREENHECK	SBCE-3H36	WALL MOUNTED PROPELLER	BELT	17500	0.25	46.0	1200	4.6	5	-	3	208	250	BAS	1, 3, 4, 5, 7
EFG-2	GENERATOR ROOM	GENERATOR ROOM	GREENHECK	SBE-3H36	WALL MOUNTED PROPELLER	BELT	17500	0.25	46.0	1200	4.6	5	-	3	208	250	BAS	1, 3, 4, 5, 7
SFG-1	GENERATOR ROOM	GENERATOR ROOM	GREENHECK	SBS-3H48	WALL MOUNTED PROPELLER	BELT	25000	0.375	40.0	688	5.1	7 1/2	-	3	208	400	BAS	1, 3, 4, 5, 6
NOTES: 1. OTHER ACCEPTABLE MANUFACTURERS: SEE SPECIFICATIONS. 2. PROVIDE THE FOLLOWING OPTIONS: GRAVITY BACKDRAFT DAMPER AND DISCONNECT SWITCH. 3. PROVIDE GALVANIZED BIRDSCREEN, WALL HOUSING, MOTORIZED DAMPER. 4. PROVIDE VFD AND ROOM SPACE TEMPERATURE SENSOR ON BAS. 5. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES: ELECTRICAL DISCONNECT SWITCH, NEOPRENE VIBRATION ISOLATORS. 6. 90 DEGREE INLET HOOD 7. 45 DEGREE OUTLET HOOD																		

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ARCHITECTS + ENGINEERS

Office of
Construction
and Facilities
Management

VA

U.S. Department
of Veterans Affairs

Stamp

Drawing Title

MECHANICAL SCHEDULES

Approved: Project Director

Phase

ISSUE FOR BID

BUILDING FULLY
SPRINKLERED

Project Title

EHRM INFRASTRUCTURE
UPGRADES - TIER 2

Location
FARGO VA HEALTH CARE SYSTEM

Issue Date
01/16/2024

Checked
RH

Drawn
MB

Project Number

437-21-210

Building Number

1-9-46

Drawing Number

M-600

BIDDING ADDENDA #1

ISSUE FOR BID

Revisions:

07-22-25

01-16-24

Date:

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VA FORM 08 - 6231

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ISSUE FOR BID - 01/16/2024

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