

TOPEKA METRO

**REQUEST FOR BIDS
QSS HVAC Equipment Upgrade
TO-25-03**

**Appendix 3
Engineering Specifications**

EXISTING AIR HANDLING UNIT									
MARK	MANUFACTURER	MODEL	FAN				MOTOR		
			CFM	BHP	RMP	ESP	HP	RPM	ELECTRICAL
EX AHU-1	MCQUAY	CAH10FDAC	4,930	4.8	1495	1.1"	7.5	1800	208/3ø
EX AHU-2	MCQUAY	CAH004FDAC	1,960	2.2	2053	1.0"	3.0	1800	208/3ø
EX AHU-3	MCQUAY	CAH008FDAC	2,390	1.3	1365	1.0"	2.0	1800	208/3ø

BASE BID: EXISTING FAN AND MOTOR TO REMAIN
ALTERNATE #2: REPLACE EXISTING FULL FAN ASSEMBLY AND MOTOR

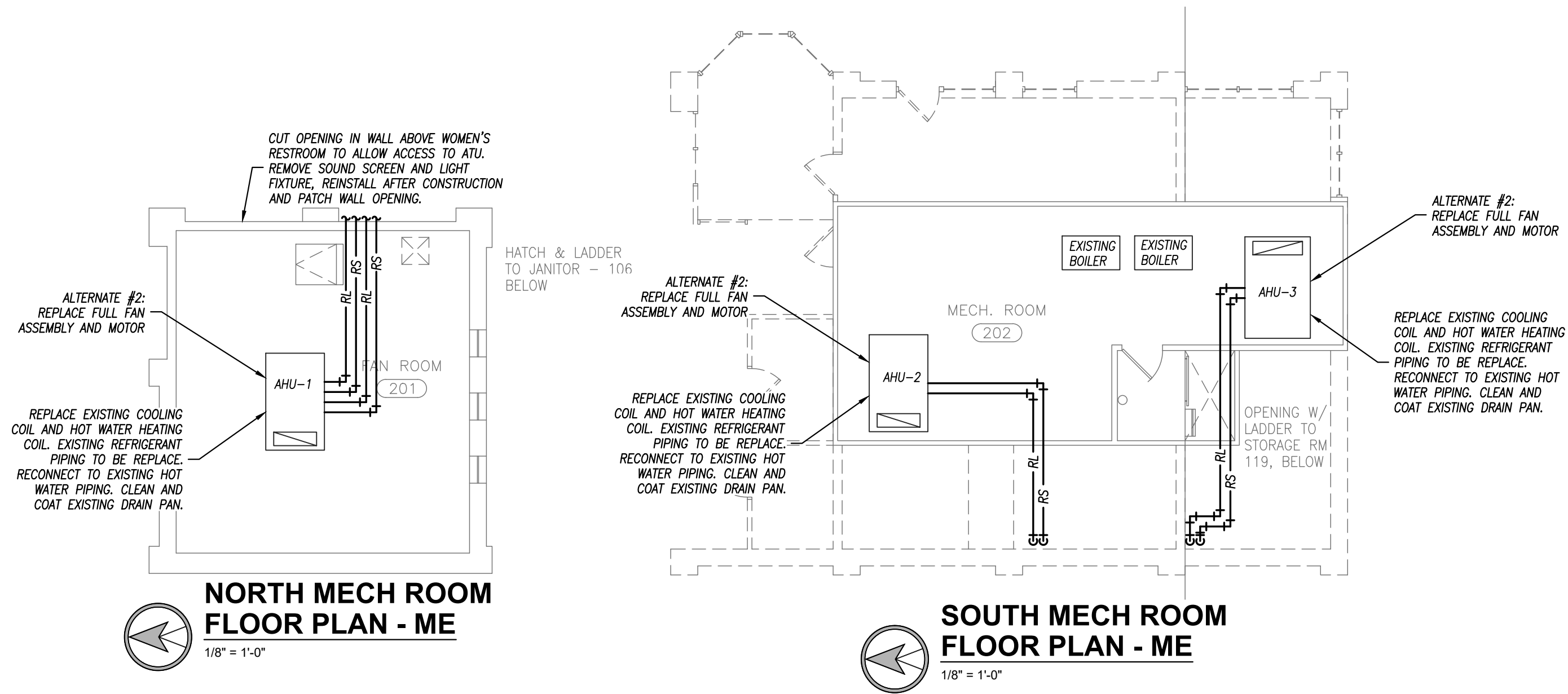
HOT WATER HEATING COIL										
MARK	MANUFACTURER	MODEL	CFM	GPM	CAPACITY	WPD	EAT/LAT	EWTLWT	ROWS	FIN DIMENSIONS
EX AHU-1	DAIKIN	5WB0802B	4,930	14.1	219 MBH	1.1 FT	50/90.7	170/139.5	2	27" H X 48" L
EX AHU-2	DAIKIN	5WH0702B	1,960	4.3	64 MBH	0.1 FT	60/90.2	170/139.8	2	18" H X 28" L
EX AHU-3	DAIKIN	5WH0802B	2,390	5.3	79 MBH	0.2 FT	60/90.3	170/139.9	2	18" H X 28" L

COOLING COIL SCHEDULE									
PLAN MARK	MANUFACTURER	MODEL NUMBER	CFM	REFRIGERANT	COOLING CAPACITY	ENTERING AIR DRY/WET	LEAVING AIR DRY/WET	FIN DIMENSIONS	
EX AHU-1	DAIKIN	5EJ0806B	4,930	R-410A	183 MBH	80.0/67.0	57.0/55.0	27" H X 51" L	
EX AHU-2	DAIKIN	5EN0704B	1,960	R-410A	63 MBH	80.0/67.0	60.3/57.1	24" H X 32" L	
EX AHU-3	DAIKIN	5EN1204B	2,390	R-410A	96 MBH	78.7/64.7	52.8/50.9	21" H X 39" L	

BASE BID: CONDENSING UNITS AS SCHEDULED ABOVE WITH R-410A REFRIGERANT
ALTERNATE #1: CONDENSING UNITS ABOVE TO BE USED WITH EITHER REFRIGERANT R32 OR R454B. PROVIDE WITH REFRIGERANT MONITORS IN COIL SECTIONS TO SHUT THE SYSTEM OFF IN THE EVENT OF A LEAK DETECTION (REQUIRED BY ASHRAE 15 FOR A2L REFRIGERANTS).

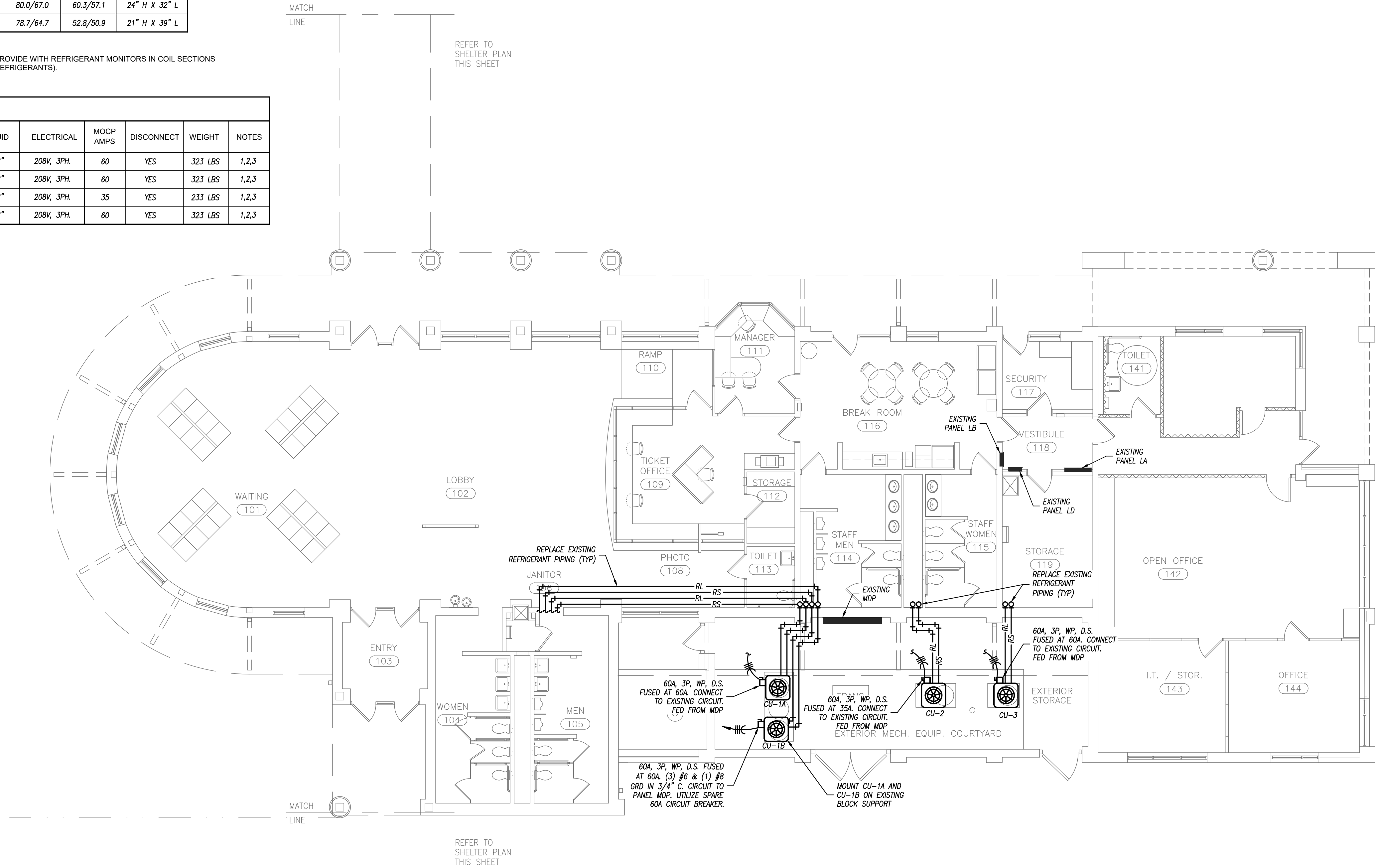
CONDENSING UNIT SCHEDULE												
PLAN MARK	MANUFACTURER	MODEL NUMBER	NOMINAL SIZE	TOTAL CAPACITY	AMBIENT	SUCTION	LIQUID	ELECTRICAL	MOCAP AMPS	DISCONNECT	WEIGHT	NOTES
CU-1A	DAIKIN	DX14XA0903A	7.5 TONS	96 MBH	105	1-3/8"	5/8"	208V, 3PH.	60	YES	323 LBS	1,2,3
CU-1B	DAIKIN	DX14XA0903A	7.5 TONS	96 MBH	105	1-3/8"	5/8"	208V, 3PH.	60	YES	323 LBS	1,2,3
CU-2	DAIKIN	DX13SA0603	5 TONS	56 MBH	105	7/8"	3/8"	208V, 3PH.	35	YES	233 LBS	1,2,3
CU-3	DAIKIN	DX14XA0903A	7.5 TONS	96 MBH	105	1-3/8"	5/8"	208V, 3PH.	60	YES	323 LBS	1,2,3

- NOTES LEGEND
- PROVIDE TXV VALVE, SERVICE VALVES, AND REFRIGERANT ACCUMULATOR AT SUCTION LINE
 - PROVIDE COIL HAIL GUARDS
 - VERIFY EXACT REFRIGERANT LINE SIZES WITH MANUFACTURER

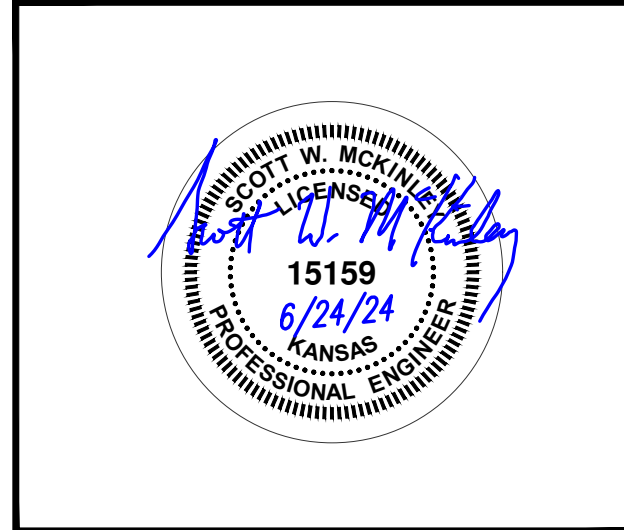


NORTH MECH ROOM FLOOR PLAN - ME
1/8" = 1'-0"

SOUTH MECH ROOM FLOOR PLAN - ME
1/8" = 1'-0"



FLOOR PLAN - ME
1/8" = 1'-0"



TOPEKA METROPOLITAN TRANSIT AUTHORITY AC REPLACEMENT

**820 SE QUINCY STREET
TOPEKA, KS**

ISSUED FOR:	
DESCRIPTION	DATE
1	
2	
3	
4	
5	
6	
7	
8	

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DRAWN BY: NSG
CHECKED BY: SWM

SHEET TITLE:
HVAC PLAN

DATE: **6/24/24** PKMR PROJECT: **24.137**

SHEET NUMBER:
ME3