SPECIFICATIONS

GENERAL
1. VERIFY ALL MEASUREMENTS AND EXISTING CONDITIONS IN THE FIELD. GENERAL SCHEMATIC LAYOUT IS INDICATED; ALL OFFSETS, OBSTRUCTIONS, AND EXISTING CONFIGURATIONS AND CONSTRAINTS MUST BE FIELD VERIFIED.
2. RENOVATION WORK WILL TAKE PLACE IN AN OCCUPIED BUILDING. INSTALLATIONS SHALL NOT AFFECT ONGOING OPERATIONS. HOURS AVAILABLE TO PERFORM WORK AND DISRUPTION TO OPERATION OF SYSTEMS AND UTILITIES WILL NEED TO BE COORDINATED WITH THE OWNER.
3. OBTAIN NECESSARY PERMITS AND PAY ASSOCIATED FEES.
4. COORDINATE ANY SERVICE DISRUPTIONS WITH THE OWNER.
5. INSTALL ALL COMPONENTS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS, ALL LOCAL CODES AND STANDARDS.
6. DRAWINGS ARE DIAGRAMMATIC ONLY; FIELD–VERIFY ALL EXISTING CONDITIONS. COORDINATE INSTALLATIONS WITH OTHER TRADES. COORDINATE ELECTRICAL POWER REQUIREMENTS FOR ALL MOTORS.
7. THE INTENTION OF THESE CONTRACT DOCUMENTS IS TO CALL FOR FINISHED WORK, FULLY TESTED AND READY FOR OPERATION. ANY COMPONENTS OR LABOR NOT MENTIONED IN THE CONTRACT DOCUMENTS BUT REQUIRED FOR FUNCTIONING SYSTEMS SHALL BE PROVIDED. SHOULD THERE APPEAR TO BE ANY DISCREPANCIES OR QUESTIONS OF INTENT, THE CONTRACTOR SHALL REFER THE MATTER TO THE ARCHITECT FOR DECISION BEFORE START OF ANY RELATED WORK.
8. PERFORM WORK IN ACCORDANCE WITH LOCAL CODES.
9. SEAL ALL DUCT AND PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS WITH FIRE SEALANT.
10. SEAL ALL PERIMETER COLUMN PENETRATIONS IN THE SPACE BEING RENOVATED.
11. OBSERVE THE OWNER'S CLEANLINESS PROTOCOLS.

SUBMITTALS
1. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED.
2. DRAWINGS: SUBMIT THE FOLLOWING: AS–BUILT DRAWINGS UPON COMPLETION OF THE WORK. THE DRAWING SHALL REFLECT ANY CHANGES MADE SINCE THE TIME OF ORIGINAL DESIGN.
3. OPERATION AND MAINTENANCE DATA: SUBMIT MANUFACTURER'S OPERATION AND MAINTENANCE DATA, INCLUDING OPERATING INSTRUCTIONS, LIST OF SPARE PARTS AND MAINTENANCE SCHEDULE.
4. WARRANTEE: PROVIDE AT MINIMUM A ONE YEAR WARRANTEE FOR THE WORK, STARTING FROM TIME OF SUBSTANTIAL COMPLETION.

PIPING INSULATION
1. FIBERGLASS INSULATION WITH ALL SERVICE JACKET, 25 FLAME SPREAD, 50 SMOKE DEVELOPED.
A. DOMESTIC COLD WATER: 1" THICKNESS.
B. DOMESTIC HOT WATER: PIPE SIZES 1 INCH AND SMALLER RUN–OUTS UP TO 12' IN LENGTH: 1 INCH THICKNESS. ALL OTHER DHW PIPING SIZES: 1 INCH THICKNESS.
C. HEATING HOT WATER: 1 INCH THICKNESS.

PIPING MATERIALS
1. ALL PIPING SHALL BE PRESSURE TESTED. SUPPORT ALL PIPING IN ACCORDANCE WITH MSS STANDARD PRACTICE SP–69. PROVIDE ADJUSTABLE CLEVIS HANGERS, WITH INSULATION SHIELDS AS REQUIRED. INSTALL SHUTOFF VALVES AT EACH FIXTURE ON THE COLD, AND WHERE APPLICABLE, THE HOT WATER SUPPLY.
2. DWV PIPING, ABOVE GRADE: SERVICE WEIGHT CAST IRON WITH NO–HUB PIPE COUPLINGS.
A. OPTION: 2–INCH AND SMALLER NON–URINAL WASTES: TYPE DWV COPPER PIPE, COPPER FITTINGS, AND LEAD FREE SOLDERED JOINTS.
3. WATER SUPPLY PIPING, ABOVE GRADE: TYPE L SEAMLESS HARD DRAWN COPPER TUBING, COPPER FITTINGS, AND LEAD FREE SOLDERED JOINTS. ASSEMBLED WITH SOLDER FITTINGS.
4. HEATING WATER AND CONDENSER WATER: NPS 2 AND SMALLER: TYPE L DRAWN–TEMPER COPPER TUBING WITH SOLDERED JOINTS OR SCHEDULE 40 STEEL PIPE WITH THREADED JOINTS. NPS 2 ½ AND LARGER: SCHEDULE 40 STEEL PIPE WITH WELDED AND FLANGED JOINTS.
5. CONDENSATE DRAIN PIPING: TYPE L DRAWN–TEMPER COPPER TUBING WITH SOLDERED JOINTS.
6. SLEEVES, ESCUTCHEONS AND FIRE STOP: PROVIDE STEEL PIPE SLEEVES WHERE SYSTEMS PASS THROUGH PARTITIONS AND WALLS. WHERE EXPOSED PIPES PASS THROUGH FINISHED AREAS, PROVIDE HEAVY CHROME ESCUTCHEONS. MAINTAIN THE INTEGRITY OF RATED WALL, FLOOR, CEILING, AND SIMILAR ASSEMBLIES. PROVIDE FIRE STOP AS REQUIRED AT PIPING PENETRATIONS.
7. PROVIDE DIELECTRIC CONNECTIONS BETWEEN FERROUS AND NON–FERROUS MATERIALS.

HYDRONIC VALVES
1. HOT WATER:
A. BALL VALVES, NPS 2 AND SMALLER: TWO–PIECE, 600–PSIG CWP RATING, COPPER ALLOY.
B. BALANCE VALVES, NPS 2 AND SMALLER: BRONZE BODY, BALL TYPE, 125–PSIG RATING, CONNECTIONS FOR PORTABLE DIFFERENTIAL PRESSURE METER, MEMORY STOP.

VAV WATER HEATING COILS
1. TUBES: 5/8 INCH OD SEAMLESS COPPER ARRANGED IN PARALLEL OR STAGGERED PATTERN, EXPANDED INTO FINS, BRAZED JOINTS.
2. FINS: ALUMINUM OR COPPER CONTINUOUS PLATE TYPE WITH FULL FIN COLLARS.
3. CASING: DIE FORMED CHANNEL FRAME OF 16 GAGE GALVANIZED STEEL WITH 16 GAGE MOUNTING HOLES ON 3 INCH CENTERS.
4. HEADERS: SEAMLESS COPPER TUBE WITH SILVER BRAZED JOINTS.
5. INSTALL IN DUCTS AND CASINGS IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE. PROVIDE ACCESS DOORS FOR CLEANING.

MECHANICAL VIBRATION CONTROLS

1. MECHANICAL EQUIPMENT, PIPING, AND DUCTWORK SHALL BE MOUNTED ON VIBRATION ISOLATORS TO PREVENT THE TRANSMISSION OF VIBRATION AND MECHANICALLY TRANSMITTED SOUND TO THE BUILDING STRUCTURE.

METAL DUCTWORK
1. GALVANIZED STEEL DUCTWORK: ASTM A653 GALVANIZED STEEL SHEET, LOCK–FORMING QUALITY, AND G90 ZINC COATING. ALL DUCTWORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. CONSTRUCT DUCT SYSTEMS SO THAT LEAKAGE DOES NOT EXCEED ONE PERCENT OF THE TOTAL AIR QUANTITIES. SEAL ALL DUCT JOINTS.
2. DUCTWORK PRESSURE/SEAL CLASS:
A. SUPPLY DUCTWORK UPSTREAM OF FAN POWERED TERMINAL UNITS: 6 INCH/CLASS A.
B. SUPPLY DUCTWORK DOWNSTREAM OF FAN POWERED TERMINAL UNITS: 2 INCH/CLASS C.
3. INSULATE SUPPLY DUCTWORK WITH 1–1/2" FIBERGLASS BLANKET WITH VAPOR BARRIER JACKET EQUAL TO SCHULLER MICOLITE TYPE 75, ASTM C533, WITH FSK FACING.
4. PROVIDE VOLUME DAMPERS AT ALL BRANCH DUCTWORK.
5. PROVIDE FIRE DAMPERS AT FIRE–RATED WALL AS INDICATED ON THE DUCTWORK DRAWING.

INSULATED FLEXIBLE DUCTS
ALUMINUM LAMINATE AND POLYESTER FILM WITH LATEX ADHESIVE SUPPORTED BY HELICALLY WOUND SPRING STEEL WIRE, FIBERGLASS INSULATION, POLYETHYLENE VAPOR BARRIER FILM. R VALUE = 4.2, UL 181, CLASS 1. MAXIMUM LENGTH: 5 FEET.

IDENTIFICATION
1. IDENTIFY ALL EQUIPMENT WITH STENCIL PAINTING OR TAGS.

FAN POWERED VARIABLE AIR VOLUME TERMINAL UNITS
1. UNITS SHALL BE SERIES FLOW TYPE, PRESSURE INDEPENDENT, COMPLETE WITH MULTI–POINT INLET VELOCITY SENSOR, FAN AND MOTOR ASSEMBLY, HEAVY GAUGE PRIMARY AIR DAMPER ASSEMBLY, AND HOT WATER HEATING COIL. ALL ELECTRICAL COMPONENTS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THE NEC. CABINET SHALL BE CONSTRUCTED OF 20–GAUGE GALVANIZED STEEL WITH 1" INSULATION WITH VAPOR BARRIER.
2. CONTROLS FOR NEW UNITS SHALL BE PROVIDED UNDER AUTOMATIC TEMPERATURE CONTROLS

AUTOMATIC TEMPERATURE CONTROLS
1. CONTROLS SHALL BE AN EXTENSION OF THE EXISTING ANDOVER CONTROL SYSTEM. ALL NEW CONTROLS SHALL BE ELECTRONIC, DDC.
2. EXTEND EXISTING DDC CONTROL SYSTEM TO SERVE CONDENSER WATER SYSTEM, NEW FAN POWERED VAV TERMINAL UNITS, AND TEMPERATURE MONITORING AND EMERGENCY COOLING OF NETWORK ROOM 621.
3. PROVIDE VAV FAN POWERED UNIT CONTROLS.

TESTING, ADJUSTING, AND BALANCING (T–A–B)
1. TEST, ADJUST, AND BALANCE EQUIPMENT AND DISTRIBUTION SYSTEMS IN ACCORDANCE WITH NEBB OR AABC PROCEDURAL STANDARDS. TESTS SHALL BE PERFORMED BY AN INDEPENDENT T–A–B AGENCY.
2. T–A–B COMPUTER ROOM AIR CONDITIONERS.
3. T–A–B NEW FAN POWERED VAV TERMINAL UNITS.
4. T–A–B FAN POWERED VAV TERMINAL UNITS IMPACTED BY RENOVATIONS.
5. T–A–B SUPPLY DIFFUSERS AND RETURN AIR REGISTERS, NEW AND EXISTING WHERE IMPACTED BY RENOVATIONS.

PLUMBING PIPING AND INSULATION

1. PROVIDE ALL PIPING COMPLETE WITH FITTINGS, SUPPORTS, SLEEVES, AND ACCESSORIES. PROVIDE PIPE LABELS IN ACCORDANCE WITH ANSI REQUIREMENTS.
2. DOMESTIC WATER PIPING/NPW: COPPER TUBE, ASTM B88, TYPE L WITH WROUGHT COPPER PRESSURE FITTINGS. INSULATE PIPING WITH 1" THICK CONTINOUS FIBERGLASS INSULATION. INSULATION SHALL HAVE FACTORY APPLIED ALL–PURPOSE JACKET.
3. CONDENSATE DRAIN PIPING: COPPER TUBE, TYPE L DRAWN–TEMPER COPPER WITH SOLDERED JOINTS.
4. SOLDERED JOINTS: USE ASTM B 813, WATER–FLUSHABLE, LEAD–FREE FLUX; ASTM B 32, LEAD–FREE–ALLOY SOLDER; AND ASTM B 828 PROCEDURE, UNLESS OTHERWISE INDICATED.
5. INSTALL DOMESTIC/NPW PIPING AT 0.25 PERCENT DOWNWARD SLOPE TOWARD DRAIN AND PLUMB.
6. INSTALL HORIZONTAL DRAINAGE PIPING AT 1/4" PER FOOT DOWNWARD SLOPE IN THE DIRECTION OF FLOW.
7. PROPERLY SUPPORT PIPING AND CONTENTS TO PREVENT SAGGING, VIBRATION, OR SWAYING WITH GALVANIZED STEEL ADJUSTABLE CLEAVIS HANGERS AS PER MSS SP–69. PROVIDE INSULATION SHIELDS. ALLOW FOR EXPANSION AND CONTRACTION.
8. INSULATION SHALL NOT EXCEED A FLAME SPREAD OF 25 AND A SMOKE DEVELOPED RATING OF 50.
9. INSPECTIONS AND TESTS SHALL BE PERFORMED ON THE PIPING INSTALLATION AS REQUIRED BY CODE.

PLUMBING VALVES, EQUIPMENT AND SPECIALTIES
1. GENERAL: PROVIDE COMPONENTS, WHICH PREVENT BACK–SIPHONAGE OR CROSS–CONNECTIONS.
2. SHOCK ABSORBERS AND AIR CHAMBERS: PROVIDE WATER HAMMER ARRESTORS ON WATER SUPPLIES TO QUICK CLOSING VALVES. WHERE NOT PROVIDED, CONNECT TO FIXTURES USING AIR CHAMBERS.
3. BALL VALVES: MSS SP–110, 600# W.O.G., FORGED BRASS, TWO PIECE BODY, HARD CHROME PLATED FORGED BRASS BALL, FULL PORT.
4. ACCESS AND ACCESS PANELS: EQUIPMENT AND SPECIALTIES SHALL BE ACCESSIBLE. WHERE NECESSARY, PROVIDE METAL UNITS WITH LOCKS. CONFIGURE AND TRIM AS REQUIRED BY FINISH WALL SURFACE.
A. MANUFACTURERS: KARP, MILCOR, NYSTROM, OR APPROVED EQUAL.

PLUMBING FIXTURES
1. AS SCHEDULED ON POWER AND COMMUNICATION PLAN.

FIRE PROTECTION

1. REVISE THE EXISTING WET PIPE SPRINKLER SYSTEM TO SERVE THE NEW LAYOUT. COORDINATE WITH OWNER'S ROOM USES TO PROVIDE ADEQUATE SYSTEM FOR ALL CONTRACT AREAS. PROVIDE SPRINKLER SYSTEM COMPONENTS AS NECESSARY TO PROVIDE A COMPLETE AND OPERATIONAL NFPA 13 SYSTEM.

2. INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SUBMITTALS. INSTALL MATERIALS IN PROPER RELATION WITH ADJACENT CONSTRUCTION AND WITH UNIFORM APPEARANCE FOR EXPOSED WORK. COORDINATE WITH WORK OF OTHER SECTIONS. COMPLY WITH APPLICABLE REGULATIONS AND BUILDING CODE REQUIREMENTS. COMPLY WITH GOVERNING CODES AND REGULATIONS. SYSTEM COMPONENTS TO BE UL LISTED OR FM APPROVED AND SHALL MEET THE REQUIREMENTS OF THE OWNER'S INSURANCE CARRIER.

3. MAINTAIN SPRINKLER PROTECTION DURING CONSTRUCTION TO THE EXTENT REQUIRE BY AUTHORITIES HAVING JURISDICTION. SYSTEM IMPAIRMENTS SHALL BE LIMITED TO FOUR HOURS OR LESS. BEFORE SHUTTING OFF A SECTION OF THE SPRINKLER SYSTEM TO MAKE SPRINKLER TIE–INS, NOTIFY THE LOCAL FIRE DEPARTMENT, PLAN THE WORK CAREFULLY, AND ASSEMBLE ALL MATERIALS TO ENABLE COMPLETION IN THE SHORTEST TIME POSSIBLE. WORK STARTED ON CONNECTIONS SHOULD BE COMPLETED WITHOUT INTERRUPTION AND PROTECTION RESTORED AS PROMPTLY AS POSSIBLE. DURING THE IMPAIRMENT, PROVIDE EMERGENCY FIRE HOSE AND MAINTAIN EXTRA WATCH SERVICE IN THE AFFECTED AREAS.

4. SUBMIT PRODUCT DATA FOR EACH MATERIAL AND PRODUCT USED. SUBMIT AS–BUILT DRAWINGS UPON COMPLETION OF THE WORK.

5. PROVIDE AT MINIMUM A ONE YEAR WARRANTEE FOR THE WORK, STARTING FROM TIME OF SUBSTANTIAL COMPLETION. COORDINATE ADDITIONAL WARRANTEE REQUIREMENTS WITH THE OWNER.

6. PIPING TO BE SCHEDULE 40 STEEL WITH STEEL FITTINGS AND THREADED JOINTS.

7. PROVIDE SUPPORTS PER NFPA 13. SUPPORT MATERIALS AND SPACING SHALL BE COMPATIBLE WITH MATERIALS BEING SUPPORTED. SEISMICALLY BRACE SYSTEMS AS REQUIRED BY THE APPLICABLE BUILDING CODE.

8. PROVIDE STEEL PIPE SLEEVES WHERE SYSTEMS PASS THROUGH PARTITIONS AND WALLS. MAINTAIN THE INTEGRITY OF RATED WALL, FLOOR, CEILING, AND SIMILAR ASSEMBLIES. PROVIDE FIRE STOP AS REQUIRED AT PIPING PENETRATIONS.

9. PROVIDE QUICK RESPONSE SPRINKLER HEADS OF A TYPE AND FINISH TO MATCH EXISTING HEADS. WHERE HEAD LOCATIONS NEED TO CHANGE, DO NOT REUSE EXISTING HEADS.

10. RESTORE DAMAGED FINISHES. TEST ALL SYSTEMS FOR PROPER OPERATION IN ACCORDANCE WITH NFPA 13. CLEAN AND PROTECT WORK FROM DAMAGE.

SEQUENCE OF OPERATION

FAN POWERED VAV BOXES

1. DUAL TEMPERATURE SENSOR/THERMOSTAT SHALL MAINTAIN CONSTANT SPACE TEMPERATURE BY MODULATING PRIMARY AIR VOLUME DAMPER. ON A RISE IN TEMPERATURE ABOVE COOLING SETPOINT, THE TERMINAL UNIT SHALL MODULATE TO ITS MAXIMUM PRIMARY AIRFLOW RATE. AS THE SPACE TEMPERATURE DROPS BELOW ITS COOLING TEMPERATURE SETPOINT, THE TERMINAL UNIT SHALL MODULATE TO ITS MINIMUM SETPOINT. AS THE SPACE TEMPERATURE CONTINUES TO FALL TO THE HEATING SETPOINT, THE TERMINAL UNIT PROPORTIONAL HOT WATER VALVE SHALL MODULATE OPEN.
2. DURING UNOCCUPIED HOURS WHEN THE CENTRAL PRIMARY AIR SYSTEM IS OFF, THE TERMINAL UNIT FAN SHALL CYCLE ON TO DELIVER PLENUM AIR TO THE SPACE WHENEVER THE SPACE TEMPERATURE FALLS BELOW NIGHT SETBACK TEMPERATURE. ON UNITS WITH HOT WATER REHEAT, THE HOT WATER VALVE SHALL MODULATE OPEN.

NETWORK ROOM 621

1. AIR CONDITIONING UNITS AC–1 AND AC–2 SHALL OPERATE ACCORDING TO THEIR MICROPROCESSOR–BASED STAND–ALONE CONTROLS. CONTROL CONTRACTOR SHALL PROVIDE ALL HARDWARE, CONTROL WIRING, AND PROGRAMMING AS REQUIRED TO MEET THE INTENT OF THE SPECIFICATIONS. COORDINATE WITH AC UNIT MANUFACTURER.
2. THE DDC SYSTEM SHALL MONITOR THE ROOM TEMPERATURE AND SHALL GENERATE AN ALARM CONDITION WHENEVER THE ROOM EXCEEDS 85 F.

NOTE:

1. SEE SHEET M–001 FOR LEGEND AND ABBREVIATIONS.

REGISTER, DIFFUSER & GRILL SCHEDULE - GENERAL

TAG	TYPE	CFM	FACE SIZE	NECK SIZE (DIA)	SLOTS	SLOT SIZE	DP	MAX NC	TYPICAL UNIT MFG & MODEL NO.	NOTES
S-1	CEILING DIFFUSER	<125		6x6			0.10	<20	PRICE ASPD	1, 2, 3, 7
S-2	CEILING DIFFUSER	<125		6x6			0.10	<20	PRICE ASPD	1, 2, 4, 7
S-3	CEILING DIFFUSER	<125		6x6			0.10	<20	PRICE ASPD	1, 5, 7
S-4	SLOT DIFFUSER	120-200		8	4	1/2"	0.05	<20	PRICE SDB150, 48" LONG	1, 7
S-5	CEILING DIFFUSER	120-210		8x8			0.11	21	PRICE ASPD	1, 2, 3, 7
S-6	CEILING DIFFUSER	220-300		10x10			0.07	<20	PRICE ASPD	1, 2, 3, 7
S-7	CEILING DIFFUSER	<125		6x6			0.10	<20	PRICE ASPD	1, 5, 8
R-1	CEILING RETURN	<140		8x8			0.06	<20	PRICE 525	2, 7
R-2	CEILING RETURN	140-240		10x10			0.06	<20	PRICE 525	2, 7
R-3	CEILING RETURN	241-380		12x12			0.06	<20	PRICE 525	2, 7
R-4	CEILING RETURN	381-480		22x12			0.04	<20	PRICE 525	2, 7

NOTES:
1. ALUMINUM CONSTRUCTION.
2. 24x24 MODULE.
3. 4-WAY PATTERN TYPICAL.
4. 2-WAY (CORRIDOR) PATTERN.
5. 2-WAY (CORNER) PATTERN
6. 3-WAY PATTERN
7. LAY-IN
8. SURFACE MOUNT

FAN POWERED VARIABLE AIR VOLUME (FPVAV) TERMINAL SCHEDULE

TAG	INLET SIZE (IN)	PRIMARY AIR		INLET STATIC PRESSURE MIN. IN WG	FAN					HOT WATER HEATING COIL						TYPICAL UNIT MFG & MODEL NO.	NOTES:
		CFM MAX.	CFM MIN.		SIZE	MOTOR HP	VOLT/PH	FAN CFM	FAN S.P.	MBH	ROWS	EAT DEG. F	LAT DEG. F	GPM 120 EWT	WPD FT HD		
VAV-1	8	380	110	0.5	08SQ	0.5	120/1	380	0.32	11.1	2	58	85	1.00	0.9	TRANE VSWF	1, 2, 3
VAV-2	6	290	110	0.5	08SQ	0.5	120/1	290	0.3	8.5	2	58	85	0.67	0.4	TRANE VSWF	1, 2, 3
VAV-3	8	480	150	0.5	09SQ	0.5	120/1	480	0.34	14	2	58	85	1.70	2	TRANE VSWF	1, 2, 3
VAV-4	8	390	120	0.5	08SQ	0.5	120/1	390	0.32	11.4	2	58	85	1.10	0.9	TRANE VSWF	1, 2, 3
VAV-5	8	380	120	0.5	08SQ	0.5	120/1	380	0.32	11.1	2	58	85	1.00	0.9	TRANE VSWF	1, 2, 3
VAV-6	8	390	120	0.5	08SQ	0.5	120/1	390	0.32	11.4	2	58	85	1.10	0.9	TRANE VSWF	1, 2, 3
VAV-7	6	240	100	0.5	08SQ	0.5	120/1	240	0.3	7	2	58	85	0.52	0.3	TRANE VSWF	1, 2, 3
VAV-8	6	280	100	0.5	08SQ	0.5	120/1	280	0.3	8.2	2	58	85	0.64	0.4	TRANE VSWF	1, 2, 3
VAV-9	8	600	180	0.5	09SQ	0.5	120/1	600	0.4	17.6	2	58	85	3.20	6.2	TRANE VSWF	1, 2, 3
VAV-10	8	380	120	0.5	08SQ	0.5	120/1	380	0.32	11.1	2	58	85	1.04	0.9	TRANE VSWF	1, 2, 3
VAV-11	8	430	160	0.5	08SQ	0.5	120/1	430	0.33	12.6	2	58	85	1.32	1.3	TRANE VSWF	1, 2, 3
VAV-12	8	370	120	0.5	08SQ	0.5	120/1	370	0.31	10.8	2	58	85	1.00	0.8	TRANE VSWF	1, 2, 3
VAV-13	6	300	120	0.5	08SQ	0.5	120/1	300	0.3	0.88	2	58	85	0.70	0.4	TRANE VSWF	1, 2, 3

NOTES:
1. ECM FAN MOTOR.
2. 1-INCH FOIL-FACED INSULATION.
3. CONTRACTOR TO SELECT LEFT-HAND OR RIGHT-HAND UNIT AS REQUIRED FOR ACCESS CLEARANCE.

SPLIT SYSTEM SCHEDULE

INDOOR SECTION TAG	OUTDOOR SECTION TAG	SERVES	TYPE	SENSIBLE CAPACITY BTUH	SEER	INDOOR SECTION			OUTDOOR SECTION					INDOOR SECTION MODEL NO.	OUTDOOR SECTION MODEL NO.	NOTES:
						CFM (DRY) HI-SPEED	FAN FLA	V/PH	FAN FLA	COMP RLA	COMP LRA	MCA	V/PH			
AC-1	CU-1	NETWORK 621	WALL MOUNTED	23,940	14	920	0.57	208/1	0.75	-	-	25	208/1	MITSUBISHI PKA-A36KA4	PUY-A36NHA4	1, 2, 3, 4
AC-2	CU-2	NETWORK 621	WALL MOUNTED	23,940	14	920	0.57	208/1	0.75	-	-	25	208/1	MITSUBISHI PKA-A36KA4	PUY-A36NHA4	1, 2, 3, 4

NOTES:
1. DC INVERTER-DRIVEN COMPRESSOR.
2. MOUNT OUTDOOR UNIT ON STAND ABOVE SNOW LINE.
3. PROVIDE MHK-1 CONTROLLER, DLPS-1 DRAIN PAN LEVEL SENSOR, MINI CONDENSATE PUMP, AND WIND BAFFLE.
4. COORDINATE UNIT COOLING CAPACITY WITH EQUIPMENT HEAT LOAD.

SCALE:

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5/7/12

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NO:	DATE:	REMARKS:
0	05/09/2012	FOR LANDLORD REVIEW, BID, PERMIT AND CONSTRUCTION

REVISIONS:

DRAWING TITLE:
SPECIFICATIONS AND SCHEDULES

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