

**SCHEDULES GENERAL NOTES:**

- TYPICAL FOR ALL SCHEDULE SHEETS:
- REFER TO ELECTRICAL STANDARD SCHEDULES, ONE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL ELECTRICAL INFORMATION
  - PROVIDE THE FOLLOWING FACTORY-WIRED ELECTRICAL OPTIONS/ACCESSORIES WHERE INDICATED IN SCHEDULE:
    - A - NON-FUSED DISCONNECT SWITCH
    - B - UNIT SHALL BE SINGLE POINT ELECTRICAL CONNECTION WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS
    - C - SERVICE RECEPTACLE
    - D - FUSED DISCONNECT SWITCH
    - E - COMBINATION STARTER
    - F - UNIT SHALL HAVE (2) SINGLE POINT CONNECTIONS WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS. (1) CONNECTION SHALL BE FOR CONDENSING SECTION AND (1) CONNECTION SHALL BE FOR THE REMAINDER OF THE UNIT.
  - FOR MODULATION/CONTROL TYPE COLUMN, "VFC" INDICATES VARIABLE FREQUENCY CONTROLLERS. "AUTO" INDICATES AUTOMATIC OPERATION (CONTROLLED BY TEMPERATURE CONTROLS OR SELF CONTAINED CONTROLS), "MANUAL" INDICATES HAND OPERATION.
  - IF VARIABLE FREQUENCY CONTROLLERS ARE INDICATED TO BE PROVIDED AND ARE NOT INSTALLED INTEGRAL TO THE UNIT, VARIABLE FREQUENCY CONTROLLERS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR (UNLESS OTHERWISE NOTED) AND INSTALLED BY THE ELECTRICAL CONTRACTOR INCLUDING THE LINE SIDE AND LOAD SIDE WIRING TO THE MOTOR AND INCLUDING MISCELLANEOUS STEEL REQUIRED FOR THE SUPPORT AND MOUNTING OF THE VFC. REFER TO FLOOR PLANS FOR LOCATION.
  - WHERE EQUIPMENT IS INDICATED TO HAVE A SINGLE POINT ELECTRICAL CONNECTION, THAT EQUIPMENT SHALL COME COMPLETE WITH FACTORY INSTALLED STARTERS, MOTOR OVERLOAD PROTECTION, CONTACTORS, FUSING AND ALL NECESSARY INTERNAL WIRING AND CONTROLS. PROVIDE A FACTORY MOUNTED UNIT DISCONNECTING MEANS WHERE THE ELECTRICAL CONTRACTOR SHALL MAKE SINGLE POINT CONNECTION. INSTALL PACKAGED EQUIPMENT SUCH THAT THE ELECTRICAL CONNECTION AND CONTROLS ARE ACCESSIBLE AND HAVE CLEARANCES MEETING THE NATIONAL ELECTRICAL CODE.
  - WHERE PACKAGED EQUIPMENT IS PROVIDED, NAMEPLATE MUST INDICATE MAXIMUM OVERCURRENT PROTECTION BY HACR RATED CIRCUIT BREAKERS OR FUSES. IF FUSE PROTECTION ONLY IS INDICATED, PROVIDE A FUSEIBLE DISCONNECT AND FUSES WITH THE UNIT.
  - WHERE EQUIPMENT IS DESIGNATED BY MANUFACTURER AND MODEL NUMBER, THIS IS THE BASIS OF DESIGN. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT BY OTHER SPECIFIED MANUFACTURERS OR PROPOSED ALTERNATE EQUIPMENT BY THE BASIS OF DESIGN MANUFACTURERS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS TO ELECTRICAL REQUIREMENTS, STRUCTURAL LOADING, OR ARCHITECTURAL APPURTENANCES AND SHALL INCLUDE THE COST OF SUCH REVISIONS IN HIS BID.
  - WHERE EQUIPMENT IS SCHEDULED TO INCLUDE A SERVICE RECEPTACLE, PROVIDE A FACTORY MOUNTED SERVICE RECEPTACLE WITH APPROPRIATE FUSES AND TRANSFORMERS CONNECTED ON THE LINE SIDE OF THE UNIT DISCONNECT. PROVIDE A NAMEPLATE ON THE DISCONNECT SWITCH INDICATING THE PRESENCE OF LIVE POWER TO THE SERVICE RECEPTACLE WHEN THE UNIT DISCONNECT IS IN THE OFF POSITION.
  - SIZE ALL EQUIPMENT FEEDERS BASED ON THE LISTED MOP (MAXIMUM OVERCURRENT PROTECTION), REFER TO THE FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE ON THE ELECTRICAL STANDARD SCHEDULES SHEET.

CONDENSING BOILER SCHEDULE																							
UNIT IDENTIFICATION	FUEL			OUTPUT MBH	PRESSURE RATING PSIG	NUMBER OF CONTROL STAGES	DIMENSIONS			FLUID				MODULATION/CONTROL TYPE	ELECTRICAL					MODEL NUMBER	KEYED NOTES		
	TYPE	MIN/MAX MANUFACTURER REQUIRED INLET PRESSURE AT GAS TRAIN	INPUT MBH				WIDTH	LENGTH	HEIGHT	E.W.T. °F	L.W.T. °F	FLOW GPM	FLUID TYPE		W.P.D. FT	VOLTS	PHASE	FLA	MOP			SCOR KA	OPTIONS/ACCESSORIES
B-1	NATURAL GAS	4/14	2000	1750	160	20:1	28	43.6	78	130.0	180.0	70	W	5.5	AUTO	120	1	16.0	20	10	B	BMK-2000	#1
B-2	NATURAL GAS	4/14	2000	1750	160	20:1	28	43.6	78	130.0	180.0	70	W	5.5	AUTO	120	1	16.0	20	10	B	BMK-2000	#1
B-3	NATURAL GAS	4/14	2000	1750	160	20:1	28	43.6	78	130.0	180.0	70	W	5.5	AUTO	120	1	16.0	20	10	B	BMK-2000	#1

GENERAL NOTES:  
 1. REFER TO SCHEDULES GENERAL NOTES.  
 2. MODEL NUMBERS ARE AERCO UNLESS OTHERWISE NOTED.  
 3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.

KEYED NOTES:  
 1. PROVIDE MUFFLER FOR BOILER FLUE.

PUMP SCHEDULE																					
UNIT IDENTIFICATION	SYSTEM SERVED	LOCATION	TYPE	COUPLING TYPE	WATERFLOW GPM	FLUID TYPE	COLDEST SYSTEM OPERATING TEMP. °F FOR PUMP SELECTION	PUMP HEAD FT.	OVERLOAD GPM	MINIMUM EFFICIENCY %	MOTOR			MODULATION/CONTROL TYPE	ELECTRICAL				MODEL NUMBER	KEYED NOTES	
											BHP	HP	RPM		VOLTS	PHASE	SCOR KA (NOTE 4)	OPTIONS/ACCESSORIES			
CP-1	B-1	BOILER ROOM	INLINE	FLEXIBLE	70	WATER	40	25	NON-OVERLOADING	66.6	0.676	1 1/2	1800	AUTO	208	3	10	----	E-60	2x2x5.25	
CP-2	B-2	BOILER ROOM	INLINE	FLEXIBLE	70	WATER	40	25	NON-OVERLOADING	66.6	0.676	1 1/2	1800	AUTO	208	3	10	----	E-60	2x2x5.25	
CP-3	B-3	BOILER ROOM	INLINE	FLEXIBLE	70	WATER	40	25	NON-OVERLOADING	66.6	0.676	1 1/2	1800	AUTO	208	3	10	----	E-60	2x2x5.25	
CP-601	HOT WATER HEATING SYSTEM	BOILER ROOM	BASE MOUNTED	FLEXIBLE	200	WATER	40	95	NON-OVERLOADING	69.2	6.64	10	3600	VFC	208	3	10	----	E-1510	2AD	
CP-602	HOT WATER HEATING SYSTEM	BOILER ROOM	BASE MOUNTED	FLEXIBLE	200	WATER	40	95	NON-OVERLOADING	69.2	6.64	10	3600	VFC	208	3	10	----	E-1510	2AD	

GENERAL NOTES:  
 1. REFER TO SCHEDULES GENERAL NOTES.  
 2. MODEL NUMBER ARE BELL & GOSSETT UNLESS OTHERWISE NOTED.  
 3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.  
 4. CONTROLLER (E.G. VARIABLE FREQUENCY CONTROLLER, MOTOR STARTER) FOR SPECIFIED EQUIPMENT SHALL BE MANUFACTURED AND MARKED PER NEC WITH A MINIMUM SHORT CIRCUIT CURRENT RATING AS INDICATED.

FUEL FIRED DOMESTIC WATER HEATER SCHEDULE																
UNIT IDENTIFICATION	STORAGE CAPACITY GALLONS	FUEL			RECOVERY GPH	E.W.T. °F	L.W.T. °F	MODULATION/CONTROL TYPE	ELECTRICAL					MODEL NUMBER	KEYED NOTES	
		TYPE	MIN/MAX MANUFACTURER REQUIRED INLET PRESSURE AT GAS TRAIN	INPUT MBH					VOLTS	PHASE	FLA	MOP	SCOR KA			OPTIONS/ACCESSORIES
DWH-1	17.0	NATURAL GAS	4"-14"	1,999	2,375	40	140	AUTO	208	3	10.9	15	10	----	AWH2000NFM	

GENERAL NOTES:  
 1. REFER TO SCHEDULES GENERAL NOTES.  
 2. MODEL NUMBERS ARE LOCHINVAR UNLESS OTHERWISE NOTED.

COMMERCIAL ROOFTOP AIR CONDITIONING UNIT SCHEDULE - PART A																													
UNIT I.D.	AREA SERVED	SUPPLY FAN										COOLING SECTION-CHILLED WATER																	
		AIRFLOW CFM	MIN. OUTSIDE AIRFLOW CFM	E.S.P. IN. W.G.	FAN SUCTION OR DISCHARGE S.P. IN. W.G. AT COOLING COIL DRAIN PAN	E.S.P. IN. W.G.	FAN SPEED RPM	FAN POSITION	FAN TYPE	CONTROL TYPE	MOTOR	MAXIMUM NUMBER ROWS	MAXIMUM FIN DENSITY FINS/INCH	NET UNIT CAPACITY	AIR					WATER					CONTROL VALVE W.P.D. FT. HEAD				
		TOTAL MBH	SENSIBLE MBH	AIRFLOW CFM	MIXED E.D.B. °F	MIXED E.W.B. °F	COIL L.D.B. °F	COIL L.W.B. °F	MAXIMUM A.P.D. IN. W.G.	MINIMUM FACE AREA SQ. FT.	FLOW GPM	FLUID TYPE	E.W.T. °F	L.W.T. °F	MAXIMUM W.P.D. FT. HEAD														
RTU-101	MUSIC	5,650	500	1.0	-1.36	2.36	2072	DRAWTHRU	CENTRIFUGAL PLENUM	VFC	3.45	5	4	10	157.0	117.0	5,650	81.8	68.6	62.9	60.2	0.43	11.25	26.0	W	45.0	55.0	0.43	11.5
RTU-301	MEDIA CENTER	5,600	1,200	1.5	-1.73	3.23	2201	DRAWTHRU	CENTRIFUGAL PLENUM	VFC	4.35	5	6	11	224.1	180.7	5,600	84.2	67.0	54.7	53.9	0.75	11.25	48.0	W	45.0	55.0	4.50	11.5
RTU-501	CAFETERIA	7,250	2,700	2.0	-1.65	3.65	1739	DRAWTHRU	CENTRIFUGAL PLENUM	VFC	6.05	7.5	5	11	308.3	200.2	7,250	82.8	69.8	57.6	56.8	0.62	15.12	60.5	W	45.0	55.0	5.80	11.5

GENERAL NOTES:  
 1. REFER TO SCHEDULES GENERAL NOTES.  
 2. MODEL NUMBERS ARE DAIKIN UNLESS OTHERWISE NOTED.  
 3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.  
 4. DESIGN MINIMUM OUTSIDE AIRFLOW CFM (VENTILATION) LISTED IS BASED ON THE ESTIMATED MAXIMUM OCCUPANT LOAD. REFER TO TEMPERATURE CONTROL DRAWINGS FOR OUTSIDE AIR CONTROL SEQUENCE.  
 5. MERV DESIGNATES THE "MINIMUM EFFICIENT REPORTING VALUE" AS EVALUATED UNDER ASHRAE STANDARD 52.2 1999.  
 6. TOTAL STATIC PRESSURE FOR VARIABLE AIR VOLUME SYSTEMS IS BASED ON THE FILTER DIRTY AIR PRESSURE DROP AND AVERAGE/MIDFIRE FILTER AIR PRESSURE DROP FOR CONSTANT VOLUME SYSTEMS UNLESS NOTED OTHERWISE.

KEYED NOTES:  
 1. PROVIDE CURB ADAPTOR FOR EXISTING 240"x34" CURB.  
 1. PROVIDE CURB ADAPTOR FOR EXISTING 240"x46" CURB.

COMMERCIAL ROOFTOP UNIT AIR CONDITIONING SCHEDULE - PART B																														
UNIT I.D.	UNIT HEATING SECTION - WATER					FILTER SECTION					CURB				MAXIMUM UNIT DIMENSIONS				TOTAL UNIT ELECTRICAL					MODEL NO.	KEYED NOTES					
	MINIMUM TOTAL CAPACITY MBH	AIRFLOW CFM	E.D.B. °F	L.D.B. °F	MAX. A.P.D. IN. W.G.	MIN. FACE AREA SQ. FT.	FLOW GPM	FLUID TYPE	E.W.T. °F	L.W.T. °F	MAX W.P.D. FT. HEAD	TYPE	MERV	AIR PRESS. DROP	INITIAL IN. W.G.	FINAL IN. W.G.	STANDARD	VIBRATION ISOLATION SPRING CURB	HEIGHT	LENGTH INCHES	HEIGHT INCHES	WIDTH INCHES	MAXIMUM UNIT OPERATING WEIGHT LBS. (WITH CURB)			VOLTS	PHASE	FLA	MOP	SCOR KA
RTU-101	142.9	5,650	62.0	85.1	0.18	8.0	13.5	W	180.0	160.0	0.8	PLEATED	8	0.17	1.00	YES	NO	KEYED NOTE #1	240	76	40	5,800	208	3	15.2	20	10	----	0AH013GDGM	
RTU-301	193.9	5,600	54.0	85.7	0.23	8.0	18.0	W	180.0	160.0	1.4	PLEATED	8	0.16	1.00	YES	NO	KEYED NOTE #1	240	76	40	5,920	208	3	15.2	20	10	----	0AH013GDGM	
RTU-501	324.7	7,250	44.8	85.8	0.28	10.0	33.0	W	180.0	160.0	1.3	PLEATED	8	0.16	1.00	YES	NO	KEYED NOTE #2	240	78	46	6,640	208	3	23.3	30	10	----	0AH016GDGM	

COMMERCIAL ROOFTOP AIR CONDITIONING UNIT SCHEDULE - PART C																																
UNIT I.D.	UNIT DISCHARGE Lw BY OCTAVE BAND																MAXIMUM SOUND POWER LEVELS															
	63 HZ (DB)	125 HZ (DB)	250 HZ (DB)	500 HZ (DB)	1000 HZ (DB)	2000 HZ (DB)	4000 HZ (DB)	8000 HZ (DB)	63 HZ (DB)	125 HZ (DB)	250 HZ (DB)	500 HZ (DB)	1000 HZ (DB)	2000 HZ (DB)	4000 HZ (DB)	8000 HZ (DB)	63 HZ (DB)	125 HZ (DB)	250 HZ (DB)	500 HZ (DB)	1000 HZ (DB)	2000 HZ (DB)	4000 HZ (DB)	8000 HZ (DB)	63 HZ (DB)	125 HZ (DB)	250 HZ (DB)	500 HZ (DB)	1000 HZ (DB)	2000 HZ (DB)	4000 HZ (DB)	8000 HZ (DB)
RTU-101	75	68	78	74	76	74	73	64	70	69	77	70	65	64	59	51	70	68	71	60	60	52	46	51	75	68	74	61	61	52	46	51
RTU-301	76	69	78	75	77	74	72	64	71	69	80	71	65	64	58	51	71	68	74	61	61	52	46	51	76	69	75	62	62	53	46	51
RTU-501	76	73	81	75	76	75	70	63	73	74	80	74	67	65	56	51	71	73	74	64	60	53	46	51	76	73	74	64	60	53	46	51

REVISION

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PROJECT TITLE  
**CREEKSIDE INTERMEDIATE SCHOOL REMODELING DEXTER COMMUNITY SCHOOL DEXTER, MICHIGAN**

SHEET TITLE  
**MECHANICAL SCHEDULES**

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