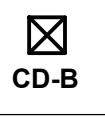
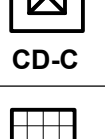
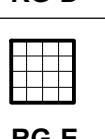
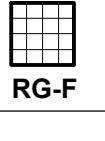
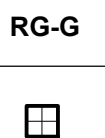
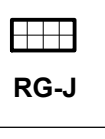
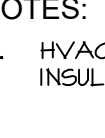
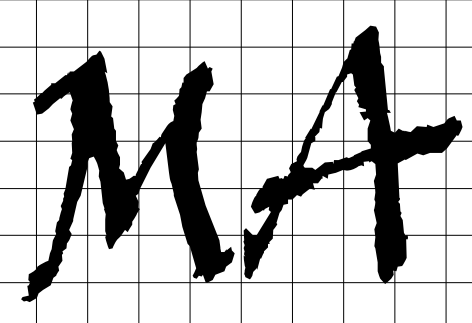


AIR HANDLING UNIT SCHEDULE						
DESIGNATION	AHU-A	AHU-B	AHU-C	AHU-D	AHU-E	AHU-F
LOCATION	201	201	201	201	201	201
AREA SERVED	SEE HVAC DWGS	SEE HVAC DWGS	SEE HVAC DWGS	SEE HVAC DWGS	SEE HVAC DWGS	SEE HVAC DWGS
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
MODEL NUMBER	40RUAA01T3A5-OA0A0	42BVE12ID3L61212DE	42BVE20ID3L62011TE	40RUAA01T3A5-OA0A0	40RUAA25T3A5-OA0A0	42BVE16ID3L61611DE
WEIGHT OF UNIT (POUNDS)	341	233	331	341	178	270
UNIT DIMENSIONS LxWxD (IN.)	44"x28.2"x56.1"	22"x31"x31.38"	24"x48.0"x45.13"	44"x28.2"x56.1"	86.1"x67.1"x50.4"	22"x47"x31.38"
DESIGN DATA:						
SUPPLY AIR (CFM)	2100	1200	2000	2220	7000	1600
OUTDOOR AIR (CFM)	425	200	415	555	2710	240
FILTER DATA:						
TYPE/EFFICIENCY	PLEATED/MERV 8	PLEATED/MERV 8	PLEATED/MERV 8	PLEATED/MERV 8	PLEATED/MERV 8	PLEATED/MERV 8
QUANTITY	4	1	2	4	4	2
SIZE HxWxD (IN.)	16 x 24 x 2	18 ¼ x 33 x 2	20 ¾ x 22 x 2	16 x 24 x 2	16 x 20 x 2 16 x 24 x 2	18 ¼ x 21 ½ x 2
HOT WATER COIL DATA:						
No. OF ROWS	2	2	2	2	2	2
EAT (°F) DB	60.0	60.0	60.0	60.0	60.0	60.0
LAT (°F) DB	116.4	110.4	113.4	116.4	116.1	110.1
TOTAL CAP. (MBH)	158.25	66.68	117.71	158.25	484.72	81.7
ENT/LMT (°F)	180/160	180/126	180/140	180/160	180/160	180/128.1
FLUID FLOW RATE (GPM)	15.8	3.0	6.0	15.8	48.5	3.5
FLUID PD (FT)	3.2	2.71	2.23	3.2	4.3	2.02
EVAPORATOR COIL DATA:						
EAT (°F) DB/WB	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0
TOTAL CAPACITY (MBH)	74.7	36.0	62.8	74.7	250.5	41.86
SUPPLY FAN DATA:						
AIRFLOW VOLUME (CFM)	2100	1200	2000	2220	7000	1600
HP	3.0	3/4	1.5	3.0	7.5	3/4
ESP (IN H ₂ O)	1.2	0.8	1.2	1.2	1.4	1.4
DISCHARGE LOCATION	TOP	TOP	TOP	TOP	TOP	TOP
VOLTS/ØHz	208/3/60	208/1/60	208/3/60	208/3/60	208/3/60	208/1/60
FLA (AMPS)	10.8	6.6	5.2	10.8	23.5	6.6
MOTOR EFFICIENCY	PREMIUM/VFD	ECM	PREMIUM/VFD	PREMIUM/VFD	PREMIUM/VFD	ECM
NOTES: 1. UNITS BASED ON CARRIER. 2. MECHANICAL CONTRACTOR TO COORDINATE COIL CONNECTION AND ACCESS DOOR SIDE IN FIELD PRIOR TO ORDERING. 3. PROVIDE (1) COMPLETE EXTRA SET OF FILTERS FOR EACH UNIT. 4. REFER TO PLANS AND SECTIONS FOR AIR HANDLING UNIT SECTION ARRANGEMENTS AND DUCTWORK CONNECTION LOCATIONS. 5. ALL FILTER SECTIONS SHALL HAVE MINIHELIC 11 0-2" FILTER GAUGES. 6. ALL MOTORS 1 HP AND LARGER SHALL BE PREMIUM EFFICIENCY. FANS PROVIDED WITH VARIABLE FREQUENCY DRIVES WITH DISCONNECT SWITCHES, SHALL HAVE INVERTER RATED PREMIUM EFFICIENCY MOTORS SUITABLE FOR VARIABLE SPEED AND TORQUE APPLICATIONS. TURN DOWN RATIO OF 10:1. 7. AHU-A,C,D,E - FULL ECONOMIZER TEMPERATURE DRY BULB CONTROLLED 0-100% WITH ENTHALPY. ULTRA LOW-LEAKAGE. 8. FREEZE-STAT 9. PROVIDE NEMA 1 DISCONNECT SWITCH FOR AIR HANDLERS 10. PROVIDE MIXING BOXES FOR ALL AIR HANDLERS 11. CO2 SENSOR VENTILATION CONTROL AHU-E 12. AIR HANDLERS (AHU-A,C,D,E) SHALL BE EQUIPPED WITH STAGED AIR VOLUME (SAV) SYSTEM UTILIZING A VARIABLE FREQUENCY DRIVE (VFD) TO AUTOMATICALLY ADJUST THE INDOOR FAN SPEED IN SEQUENCE WITH UNITS STAGED COOLING OPERATION. DURING 1st STAGE OF COOLING OPERATION THE VFD WILL ADJUST THE FAN MOTOR TO PROVIDE 2/3rd OF THE TOTAL CFM ESTABLISHED FOR UNIT. WHEN A CALL FOR THE SECOND STAGE OF COOLING IS REQUIRED, THE VFD WILL ALLOW THE TOTAL CFM FOR THE UNIT ESTABLISHED (100%). DURING THE HEATING MODE THE VFD WILL ALLOW TOTAL DESIGN CFM (100%) OPERATION AND DURING VENTILATION MODE VFD WILL ALLOW OPERATION TO 2/3RD OF TOTAL CFM. 13. 2-SPEED FAN CONTROLLER (VFD) W/2 SPEED VFD DISPLAY KIT FOR INDOOR UNIT.						

LOUVER SCHEDULE							
DESIGNATION	L-1	L-2	L-3	L-4	L-5	L-6	L-7
MODEL NUMBER	ESD-435	ESD-435	ESD-435	ESD-435	ESD-435	ESD-435	ESD-435
LOCATION	201	201	120	326	308	CUPOLA	CUPOLA
DIMENSIONS LxWxD (IN.)	72"x72"x4"	72"x48"x4"	24"x16"x4"	72"x16"x4"	16"x16"x4"	132"x24"x4"	36"x24"x4"
MIN. FREE AREA (SQ. FT.)	20.71	13.36	1.00	3.17	.62	10.55	2.84
FREE AREA (%)	58	55	38	40	35	48	47
BLADE ANGLE	35	35	35	35	35	35	35
MATERIAL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM
NOTES: 1. LOUVERS BASED ON GREENHECK. 2. COORDINATE EXACT LOUVER SIZE WITH ARCHITECTURAL PLANS AND WITH WALL OPENINGS IN THE FIELD. 3. ALL LOUVERS SHALL HAVE FACTORY POWDER COAT FINISH, COLOR TO BE SELECTED BY ARCHITECT. SUBMIT COLOR CHART FOR REVIEW. 4. ALL LOUVERS SHALL BE PROVIDED WITH BIRD SCREENS AND EXTENDED SILLS. 5. LOUVERS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR. 6. LOUVERS SHALL BARE THE ANCA SEAL.							

AIR-COOLED CONDENSING UNIT SCHEDULE						
DESIGNATION	CC-A	CC-B	CC-C	CC-D	CC-E	CC-F
AREA SERVED	SEE HVAC DWGS	SEE HVAC DWGS	SEE HVAC DWGS	SEE HVAC DWGS	SEE HVAC DWGS	SEE HVAC DWGS
UNIT SERVED	AHU-A	AHU-B	AHU-C	AHU-D	AHU-E	AHU-F
MODEL NUMBER	38AUZD07A0A5-OA0A0	24ANBT36A003	24ANBT60A003	38AUZD07A0A5-OA0A0	38AUDA25A0A5-OA0A0	24ANBT48A003
SEER/EER - MAX.	12.0 EER	14.5/12.2	14.0/11.7	12.0 EER	11.0 EER	14.0/12.0
WEIGHT OF UNIT (POUNDS)	381	274	351	381	730	351
CONDENSER DATA:						
AMBIENT TEMPERATURE (°F)	45	45	45	45	45	45
No. OF ROWS/FP1	2/17	1/20	2/20	2/17	2/17	2/20
No. OF FANS	2	1	1	2	4	1
FAN MOTOR HP (EACH)	1/4	1/5	1/4	1/4	1/4	1/4
FAN MOTOR FLA (AMPS EACH)	1.5	.44	1.3	1.5	1.5	1.3
COMPRESSOR DATA:						
REFRIGERANT TYPE	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
COMPRESSOR TYPE	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
REFRIGERATION EFFECT (MBH)	71.0	36.0	60.0	71.0	240.0	48.0
CAPACITY CONTROL	2 STEPS	2 STEPS	2 STEPS	2 STEPS	2 STEPS	2 STEPS
SINGLE POINT POWER CONNECTION ELECTRICAL DATA:						
VOLTS/ØHz	208/3/60	208/1/60	208/1/60	208/3/60	208/3/60	208/1/60
MCAMOCIP (AMPS)	28.0/45	21.8/35	30.1/50	28.0/45	73.7/100	27.8/40
NOTES: 1. UNITS BASED ON CARRIER. 2. UNITS SHALL BE COMPLETE WITH THE FOLLOWING: • NON-FUSED DISCONNECT SWITCH WITH THROUGH THE DOOR HANDLE • FACTORY POWERED, 115 VOLT, 6F1, ELECTRICAL OUTLET • SUCTION AND DISCHARGE ISOLATION VALVES FOR EACH REFRIGERATION SECTION. • 24 VOLT TERMINAL STRIP FOR FIELD SUPPLIED AND INSTALLED CONTROLS. • 115 VOLT TRANSFORMER • CRANKCASE HEATER • LOW AMBIENT COOLING CONTROLS, WINTER START KIT, HARD SHUTOFF TVV, COMPRESSOR START ASSIST - CAPACITOR AND RELAY • LOUVERED COIL GUARD, FILTER DRYER • LIQUID LINE SOLENOID VALVES • REFRIG CIRCUIT/COMPRESSOR STAGING - SINGLE CIRCUIT/DUAL STAGE (SIZE Ø1 & Ø8 ONLY)						

REGISTER/GRILLE SCHEDULE			
SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
 CD-A	PRICE	SCDA	CEILING DIFFUSER, CONSTRUCTED OF STEEL, LAY-IN (24" x 24") COORDINATE WITH CEILING GRID TYPE, ADJUSTABLE AIR PATTERN, ROUND NECK, 4-WAY DEFLECTION, BUTTERFLY DAMPER, WHITE
 CD-B	PRICE	SMDA	CEILING DIFFUSER, CONSTRUCTED OF STEEL, SURFACE MOUNTED 3-WAY DEFLECTION, ADJUSTABLE AIR PATTERN AND OPPOSED BLADE DAMPER, WHITE
 CD-C	PRICE	SMDA	CEILING DIFFUSER, CONSTRUCTED OF STEEL, SURFACE MOUNTED 2-WAY DEFLECTION, ADJUSTABLE AIR PATTERN AND OPPOSED BLADE DAMPER, LAY-IN CEILING MODULE (24" x 24") COORDINATE WITH CEILING GRID TYPE, WHITE
 RG-D	PRICE	80	RETURN REGISTER, WALL OR CEILING MOUNTED AS SHOWN, ½" EGG CRATE TYPE ALUMINUM CONSTRUCTION, 24" x 12", WHITE.
 RG-E	PRICE	80	RETURN REGISTER, WALL OR CEILING MOUNTED AS SHOWN, ½" EGG CRATE TYPE ALUMINUM CONSTRUCTION, 24" x 24", WHITE.
 RG-F	PRICE	80	RETURN REGISTER, WALL OR CEILING MOUNTED AS SHOWN, ½" EGG CRATE TYPE ALUMINUM CONSTRUCTION, 48" x 24", WHITE.
 RG-G	PRICE	80	RETURN REGISTER, WALL OR CEILING MOUNTED AS SHOWN, ½" EGG CRATE TYPE ALUMINUM CONSTRUCTION WITH OPPOSED BLADE DAMPER, 24" x 12", WHITE.
 RG-H	PRICE	80	RETURN REGISTER, WALL OR CEILING MOUNTED AS SHOWN, ½" EGG CRATE TYPE ALUMINUM CONSTRUCTION WITH OPPOSED BLADE DAMPER, 6" x 6", WHITE.
 SR-I	PRICE	520	SUPPLY REGISTER, CONSTRUCTED OF STEEL, SURFACE MOUNTED DOUBLE DEFLECTION, ¾" BLADE SPACING WITH OPPOSED BLADE DAMPER, (16" x 10"), WHITE
 RG-J	PRICE	80	REGISTER, WALL OR CEILING MOUNTED AS SHOWN, ½" EGG CRATE TYPE ALUMINUM CONSTRUCTION, 12" x 12", WHITE.
 RG-K	PRICE	80	REGISTER, WALL OR CEILING MOUNTED AS SHOWN, ½" EGG CRATE TYPE ALUMINUM CONSTRUCTION, WITH OPPOSED BLADE DAMPER, 12" x 12", WHITE.
NOTES: 1. HVAC CONTRACTOR SHALL INSULATE THE BACKS OF ALL DIFFUSERS AND GRILLES WITH 1" THICK FIBERGLASS INSULATION VAPOR JACKET TO PREVENT CONDENSATION.			



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NEW STATION
FOR
PUTNAM VALLEY
FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY		
	DATE	DESCRIPTION
		
		
		
		
		
		

MECHANICAL:
EQUIPMENT
SCHEDULES

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

M301