

6. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES INVOLVING EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
17. THE SCOPE OF WORK IS TO REPLACE THE EXISTING AIR HANDLING UNITS(AHUs) ON THE ROOF. THE EXISTING AIR HANDLING UNITS ARE CUSTOM MULTI-ZONE OUTDOOR UNITS. EXISTING AHUs SHALL BE REPLACED WITH A TYPICAL STANDARD ROOFTOP AHU.
18. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO PROVIDE CONTROL WIRING TO THE EXISTING BMS SYSTEM BY SIEMENS. MECHANICAL CONTRACTOR TO FURNISH THE SERVICES OF CONTROL CONTRACTOR TO PREPARE CONTROL WIRING DIAGRAMS.
19. CONTRACTOR SHALL PROVIDE AN ADAPTER CURB AND FACTORY ASSEMBLED PIPE CABINET FOR EACH AHU BEING REPLACED. DURING INSTALLATION OF AHU, REMOVE EXISTING GRAVEL FOR NEW BASE FLASHING. NEW BASE FLASHING TO BE INSTALLED OVER EXISTING ROOFING AND EXISTING TERMINATION BARS AS PER 2/A-500.
20. PERFORM COMMISSIONING OF THE INSTALLED AIR HANDLING EQUIPMENT AS PER 2020 NYS IECC C408. SEE SPEC 019113. SERVICES ARE TO BE PERFORMED BY A THIRD PARTY APPROVED AGENCY, SEE ALLOWANCE #3.
21. FOR SEQUENCE OF OPERATIONS, SEE SPECIFICATION SECTION 230993.
- | UNIT TAG | EXISTING CURB DIMENSIONS L X W | NEW UNIT DIMENSIONS L X W | CHW & DX COIL UNIT DIMENSIONS L X W | |
|----------|--------------------------------|---------------------------|-------------------------------------|--------|
| C2 | 222.0" X 95.0" | 280.0" X 94.0" | - | |
| C3 | 221.5" X 78.5" | 280.0" X 94.0" | - | |
| E1 | 221.5" X 79.5" | 222.0" X 94.0" | - | |
| E2 | 222.0" X 79.25" | 280.0" X 94.0" | 320.0" X 94.0" | ALT.#3 |
| E3 | 222.5" X 78.5" | 280.0" X 94.0" | - | |
| E5 | 221.0" X 79.0" | 222.0" X 94.0" | 262.0" X 94.0" | ALT.#4 |
| F2 | 222.5" X 133.5" | 320.0" X 94.0" | - | |
| H2 | 222.0" X 79.5" | 222.0" X 94.0" | 262.0" X 94.0" | ALT.#5 |
| G1 | 222.0" X 78.5" | 222.0" X 94.0" | - | |
| K1 | 221.25" X 133.0" | 264.0" X 99.0" | - | |
- REFERENCE TABLE 1 – UNIT DIMENSIONS
- NOTE: GC RESPONSIBLE TO PROVIDE ADAPTER CURB FOR NEW UNIT. EXISTING CURB DIMENSIONS AND DIMENSIONS OF NEW UNIT SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO VERIFY IN FIELD EXACT DIMENSIONS FOR PREPARATION OF ADAPTER CURB. SEE ARCH DETAILS.
- | UNIT TAG | CIRCUIT | CIRCUIT DESCRIPTION | VOLTAGE/PHASE/HZ | MCA(A) | Max Fuse Size (A) |
|----------|---------|---------------------|------------------|--------|-------------------|
| C2, C3 | 1 | Supply & Return Fan | 460/3/60 | 16.1 | 20 |
| E1 | 1 | Supply & Return Fan | 460/3/60 | 14.5 | 20 |
| E2 | 1 | Supply & Return Fan | 460/3/60 | 26.4 | 35 |
| E3 | 1 | Supply & Return Fan | 460/3/60 | 15.5 | 20 |
| E5 | 1 | Supply & Return Fan | 460/3/60 | 13.1 | 15 |
| F2 | 1 | Supply & Return Fan | 460/3/60 | 49.9 | 70 |
| G1, H2 | 1 | Supply & Return Fan | 460/3/60 | 14.5 | 20 |
| K1 | 1 | Supply & Return Fan | 460/3/60 | 23.4 | 40 |
- REFERENCE TABLE 2 – POWER/CIRCUIT INFORMATION
- NOTE: POWER/CIRCUIT INFORMATION OF NEW UNITS TO BE COORDINATED WITH ELECTRICAL CONTRACTOR. SHOWN HERE FOR REFERENCE ONLY.

BASE
BASE
BASE
BASE
BASE
ALT. #2-3
BASE
ALT. #2-1
ALT. #2-2

1 SCHEDULES & NOTES


SCALE: N.T.S.

SYSTEM	ROOM	OCCUPANCY CLASSIFICATION	FLOOR AREA SP Az	OCCUPANT LOAD OCCUPANT/1,000 SF	# OF OCCUPANTS Pz	REQUIRED CFM/OCCUPANT Rp	REQ. CFM/SF Ra	BREATHING ZONE OUTDOOR AIRFLOW Vbz=RpPz+RaAz	ZONE DISTRIBUTION EFFECTIVENESS Ez	TOTAL ROOM OUTDOOR REQUIRED Vol=Vbz/Ez	ACTUAL RM OUTSIDE AIR SUPPLY AIRFLOW CFM	REQ. EXHAUST AIRFLOW RATE CFM/SP	REQUIRED EXHAUST AIRFLOW CFM	ACTUAL EXHAUST AIRFLOW CFM
C1	CAFETERIA (1/3)	CAFETERIA	2373.33	100	237	7.5	0.18	2205	0.8	2756	5000	—	—	—
C2	CAFETERIA (1/3)	CAFETERIA	2373.33	100	237	7.5	0.18	2205	0.8	2756	2800	—	—	—
C3	CAFETERIA (1/3)	CAFETERIA	2373.33	100	237	7.5	0.18	2205	0.8	2756	2800	—	—	—
E1	220	CLASSROOM	680	35	24	10	0.12	322	0.8	402	425	—	—	—
	212	CLASSROOM	690	35	25	10	0.12	333	0.8	416	425	—	—	—
	SUITE BETW/N 220 & 219		OFFICE	560	5	3	5	0.06	49	0.8	61	75	—	—
	213	CLASSROOM	810	35	28	10	0.12	377	0.8	471	475	—	—	—
E2	214	CLASSROOM	670	35	24	10	0.12	320	0.8	401	425	—	—	—
	215	CLASSROOM	920	35	33	10	0.12	440	0.8	551	575	—	—	—
	216	CLASSROOM	815	35	29	10	0.12	388	0.8	485	500	—	—	—
	217	CLASSROOM	800	35	28	10	0.12	376	0.8	470	475	—	—	—
	218	CLASSROOM	905	35	32	10	0.12	429	0.8	536	550	—	—	—
	219	CLASSROOM	660	35	24	10	0.12	319	0.8	399	400	—	—	—
	219	CLASSROOM	660	35	24	10	0.12	319	0.8	399	400	—	—	—
E3	206	CLASSROOM	635	35	23	10	0.12	306	0.8	383	400	—	—	—
	207	CLASSROOM	710	35	25	10	0.12	335	0.8	419	425	—	—	—
	208	CLASSROOM	720	35	26	10	0.12	346	0.8	433	450	—	—	—
	209	CLASSROOM	780	35	28	10	0.12	374	0.8	467	475	—	—	—
	209A	STORAGE	580	—	—	—	0.12	70	0.8	87	100	—	—	—
E5	204	CLASSROOM	1405	35	50	10	0.12	669	0.8	836	850	—	—	—
F2	AUDITORIUM (1/3)	AUDITORIUM	4300	150	645	5	0.06	3483	0.8	4354	4400	—	—	—
F3	AUDITORIUM (1/3)	AUDITORIUM	3705	150	556	5	0.06	3002	0.8	3753	4200	—	—	—
F4	AUDITORIUM (1/3)	AUDITORIUM	590	150	89	5	0.06	480	0.8	601	2100	—	—	—
H2	GUIDANCE OFFICE		OFFICE	2560	5	13	5	0.06	219	0.8	273	275	—	—
	NURSE OFFICE (109)		OFFICE	1175	5	6	5	0.06	101	0.8	126	130	—	—
	CORRIDOR		CORRIDOR	410	—	—	—	0.06	25	0.8	31	50	—	—
	CORRIDOR		CORRIDOR	410	—	—	—	0.06	25	0.8	31	50	—	—
G1	120	CLASSROOM	335	35	12	10	0.12	160	0.8	200	200	—	—	—
	120A	OFFICE	335	5	2	5	0.06	30	0.8	38	50	—	—	—
	118	CLASSROOM	695	35	25	10	0.12	333	0.8	417	425	—	—	—
	119	CLASSROOM	695	35	25	10	0.12	333	0.8	417	425	—	—	—
	CORRIDOR		CORRIDOR	550	—	—	—	0.06	33	0.8	41	50	—	—
K1	GIRLS LOCKER RM	LOCKER RM	2545	—	—									

UNIT No.	LOCATION	EER	COOLING CAPACITY MBH	OPERATING UNIT WEIGHT (LB)	UNIT DIMENSIONS (N) LXXWxH	COMPRESSOR			REFRIGERANT (# OF CONNECTIONS)			COIL		CONDENSER FAN		POWER CONSUMPTION				MANUFACTURER AND MODEL
						QTY.	STAGES	AMPS FLA	TYPE	SUCTION OD (IN)	LIQUID OD (IN)	HOT GAS BYPASS(IN)	NO. OF ROWS	FPI	QTY. MOTORS	AMPS. FLA	V/PH/Hz	MCA	MOPD	
ACCU-E2	ROOF	12.5	283.8	185.3	58.0x99.0x55.5	3	4 STEPS	19.2/10.6/10.6	R-410A	(2) 1.62	(2) 0.88	(2) 0.88	1	18	2	2.1	460/3/60	50	60	RCS025D
ACCU-E5	ROOF	12.0	143.0	650	73.9x38.4x44.8	2	2 STEPS	10.6/10.6	R-410A	(1) 1.325	(1) 0.625	-	1	23	2	1.4	460/3/60	27	35	RCS12F150D
ACCU-H2	ROOF	12.5	143.0	650	73.9x38.4x44.8	2	2 STEPS	10.6/10.6	R-410A	(1) 1.325	(1) 0.625	-	1	23	2	1.4	460/3/60	27	35	RCS12F150D

- ALT. #3
ALT. #4
ALT. #5

BASE
BASE
BASE
BASE
BASE
BASE
ALT. #2-3
BASE
ALT. #2-1
ALT. #2-2



Mechanical & Electrical Engineer:	GREENMAN PEDERSEN, INC 400 RELLA BOULEVARD MONTEBELLO, NY 10901
Structural Engineer:	— — — —

NRHS
ROOFTOP HVAC
AND ANNEX UV
REPLACEMENT

SED # 50-02-01-06-016-029

106 Hammond Rd,
Tioga, NY 10884

TOWN OF CLARESTON
COUNTY OF ROCKLAND



MICHAEL SHIALE ARCHITECTS, L.L.P.
New City, NY 10956 Tel 845-708-9200
140 Park Avenue
www.shiale.com

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