SCHEDULE OF EXISTING AIR HANDLING UNIT

GENERAL DATA				FAN DATA				HEATING DATA (3)			COOLING DATA (3)(4)				CONDENSING UNIT		FILTER DATA			PHYSICAL DATA		ELECTRICAL DATA				REMARKS
MARK	SERVICE	MODEL NUMBER	OAI CFM MAX./MIN.	CFM	EXT. S.P IN H_2O	FAN RPM	MOTOR HP	TOTAL CAP. MBH	ENT. AIR TEMP. DB °F	LVG. AIR TEMP. DB °F	TOTAL CAP. MBH	SENSIBLE CAP. MBH	ENT. AIR TEMP. DB/WB °F	LVG. AIR TEMP. DB/WB °F	MARK	SERVICE	QTY.	SIZE (IN.)	TYPE	WEIGHT (LBS.)	LxWxH (IN.)	FLA	MCA	MOP	SERVICE	
AHU-1 (VRF)	AUXILIARY GYM	–	4500 / 1800	4500	1.0	–	–	205	40	110	170	120	78/65	55/54	CU-1	AUXILIARY GYM	–	–	MERV 13	–	–	–	–	–	208/3/60	REFER TO (2)(5)
AHU-2 (VRF)	AUXILIARY GYM	–	4500 / 1800	4500	1.0	–	–	205	40	110	170	120	78/65	55/54	CU-2	AUXILIARY GYM	–	–	MERV 13	–	–	–	–	–	208/3/60	(2)(5)

NOTES
1. AS MANUFACTURED BY "CARRIER".
2. REFURBISH IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
3. DESIGN AIR CONDITIONS: SUMMER: OA (94°F/75°F) RA (77°F/65°F); WINTER: OA (5°F/3°F) RA (70°F/55°F).
4. BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A, SEER 12.0,
5. REFURBISH EXISTING UNITS TO INCLUDE STEAM CLEANING OF EXISTING UNIT COILS, REPLACEMENT OF ALL FILTERS WITH MERV 13 FILTERS, AIR BALANCING OF EXISTING FANS AND AIR OUTLETS, PROVIDE NEW DUCT MOUNTED DX COILS IN EACH OF THE FOUR DISTRIBUTION MAINS, INSTALL VRF TYPE CONDENSING UNITS ON ROOF WITH CONNECTING REFRIGERANT PIPING AND CONTROLS FOR ASSOCIATED DX COILS.

SCHEDULE OF UNIT HEATER

MARK	MODEL No. (1)	CAPACITY DATA BTU/HR	EWT °F	LWT °F	GPM	MOTOR WATTS	ELECTRIC SERVICE	PHYSICAL DATA LxWxH	WEIGHT (LBS)	REMARKS
UH-A	HS-18	11725	160	140	1.0	9	120/1/60			REFER TO (1)(2)(3)(4)

NOTES
1. AS MANUFACTURED BY "STERLING".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. CAPACITIES BASED ON HIGH SPEED FAN SETTING AND HW 160°F/140°F
4. QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS.

SCHEDULE OF CONVECTORS

MARK	MODEL No. (1)	MBH	GPM	PHYSICAL DATA D	L	H	WEIGHT	REMARKS
CONV-A	SF-A	3.5	1.0	4"	36"	26"	50	REFER TO (2)(3)
CONV-B	SF-A	8.0	2.0	6"	48"	32"	75	(2)(3)
CONV-C	SF-A	11.0	2.0	6"	64"	32"	100	(2)(3)

NOTES
1. AS MANUFACTURED BY "STERLING".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. CAPACITIES BASED ON 150° A.W.T.

SCHEDULE OF DUCT MOUNTED HEATING COILS

GENERAL DATA			SIZE					AIR SIDE						WATER SIDE		
MARK	BUILDING	SERVICE	WIDTH (IN.)	HEIGHT INCHES	FACE AREA (FT²)	ROWS	FINS PER INCH	CFM	MBH	PRESS. DROP (" WC)	VELOCITY FPM	E.A.T. °F	L.A.T. °F	FLOW RATE (GPM)	PRESS. DROP Δ HEAD (FT)	REMARKS
HC-1	HIGH SCHOOL	ERV-1	–	–	–	2 MINIMUM	12 MAXIMUM	6600	435	0.2" MAX	600 MAX.	10	70	STEAM	5 FT. MAX	REFER TO (1)(2)(4)
HC-2	HIGH SCHOOL	ERV-2	–	–	–			6600	435					STEAM		
HC-3	HIGH SCHOOL	ERV-3	–	–	–			600	36					STEAM		
HC-4	HIGH SCHOOL	ERV-4	–	–	–			400	27					3.0		
HC-5	HIGH SCHOOL	ERV-5	–	–	–			200	14					2.0		
HC-6	HIGH SCHOOL	ERV-6	–	–	–			6000	396					40.0		
HC-7	MIDDLE SCHOOL	RTU-MS	–	–	–			8000	528					53.0		
HC-8	HIGH SCHOOL	ERV-8	–	–	–			1500	99					10.0		
HC-9	HIGH SCHOOL	ERV-9	–	–	–			400	27					3.0		
HC-11	MIDDLE SCHOOL	ERV-11	–	–	–			400	27					3.0		

NOTES
1. ENTERING WATER TEMPERATURE 180°F, 20°F ΔT.
2. PROVIDE INSPECTION AND CLEANING DUCT ACCESS DOOR ON UPSTEAM SIDE OF COIL.
3. THE HOT WATER COIL IS SIZED TO HANDLE OUTDOOR AIR QUANTITIES AT 100 PERCENT OF OCCUPANCY WITHOUT HAVING TO RESORT TO CLOSING OUTDOOR AIR INTAKE DAMPERS ON A "DESIGN HEATING DAY" TO PREVENT FREEZE-UP.

SCHEDULE OF CABINET HEATERS

MARK	TYPE UNIT	MODEL No.	CAPACITY DATA (2) BTU/HR	CFM	GPM	PD.FT.	MOTOR HP	MOTOR RPM	ELECTRIC SERVICE	PHYSICAL DATA (IN)	WEIGHT (LBS)	REMARKS
CH-A	RECESSED CLG. MTD.	RC1200-03 (1)	21,900	265	3.0	0.77	1/15	1100	120/1/60	43Wx25Lx10H	125	REFER TO (2)(3)(4)
CH-B	RECESSED WALL MTD.	RW1120-03	21,900	265	3.0	0.77	1/15	1100	120/1/60	43Wx25Lx10H	125	REFER TO (2)(3)(4)

NOTES
1. AS MANUFACTURED BY "STERLING".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. CAPACITIES BASED ON LOW SPEED FAN SETTING AND HW 160°F/140°F
4. PROVIDE THROWAWAY FILTERS, DISCONNECT SWITCH, TWO ROW COIL, REMOTE THERMOSTAT/FAN CONTROLS, ELECTRONICALLY COMMUTATED MOTOR (ECM), OPTIONAL COLOR/FINISH SELECTED BY ARCHITECT, INTEGRAL SPEED CONTROL SWITCH FIELD MOUNTED, RECESSED TRIM SECTION AND SEALS.

SCHEDULE OF EXPANSION TANK

MARK	MODEL No. (1)	TANK VOLUME GALS.	ACCEPTANCE VOLUME GALS.	REMARKS
ET-1	B-400	106	106	REFER TO (2)(3)

NOTES
1. AS MANUFACTURED BY "BELL & GOSSETT".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. VERTICAL MOUNTING 125PSI ASME TANK, DIMENSIONS 24"x65"H / 1200LBS.

SCHEDULE OF BOILERS

BOILER DATA MARK	LOCATION	MODEL No. (1)	BURNER DATA INPUT (MBH)	OUTPUT (MBH)	FUEL	ELECTRICAL SERVICE	MCA	PHYSICAL DATA (IN)	WEIGHT (LBS)	REMARKS
B-1 B-2 B-3	BOILER ROOM	ENDURA 1000	1000	902	GAS	120/1/60	20	28Wx51Lx68H	2000	REFER TO (2)(3)(4)(5)(6)

NOTES
1. AS MANUFACTURED BY "FULTON".
2. BURNER INTEGRAL TO BOILER.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
4. BOILER INSTALLATION SHALL CONFORM TO ALL REQUIREMENTS OF INSURANCE UNDERWRITER, NFPA AND ALL AUTHORITIES HAVING JURISDICTION. BOILERS SHALL BE FULLY FIELD COMMISSIONED BY AUTHORIZED TECHNICIAN FOR THE TYPE OF GAS FIRED (LPG OR NG). IF THE TYPE OF GAS IS CHANGED AFTER STARTUP THE BOILERS SHALL BE FULLY RE-COMMISSIONED BY AUTHORIZED TECHNICIAN.
5. PROVIDE MANUFACTURER RECOMMENDED COMBUSTION AIR INTAKE AND EXHAUST VENT PIPING, VENT PIPE CONDENSATE DRAIN, HIGH/LOW LIMIT CONTROL, DUAL LOW WATER CUT OFFS, OUTDOOR AIR TEMPERATURE SENSOR KIT, MULTIPLE BOILER CONDENSATE NEUTRALIZER PACKAGE, VENT PIPING PER THIS MANUFACTURER AL-29-4C OR 316L, BACNET CONTROLS, DISCONNECT SWITCH, LEAD LAG CONTROLS, MOTORIZED ISOLATION VALVES, BOILER PUMP START/STOP SIGNAL, VENTLESS GAS TRAIN, MODSYNC CONTROL PANEL.
6. HOT WATER BASED ON 140°F E.W.T., 160°F L.W.T.

SCHEDULE OF EXISTING STEAM BOILERS

BOILER DATA MARK	SERVICE	MODEL No. (1)	NUMBER OF SECTIONS	BURNER DATA MODEL No. (2)	OUTPUT (BHP)	OUTPUT (MBH/HR)	BOILER EFFICIENCY	FIRING RATE OIL (GPH)	FIRING RATE GAS (MBH)	BURNER MOTOR HP	OIL PUMP MOTOR HP	INDUCED DRAFT FAN DATA MODEL No. (3)	MOTOR HP	REMARKS
BOILER #1	ORIG.BLDG. & ADDITION	6500 -5-21	21	C7-GO-30	325	8463	83.7%	92	–	7 1/2 (208/3/60)	3/4 (208/3/60)	24C30D-3	3 (208/3/60)	
BOILER #2														
BOILER #3														

NOTES
1. AS MANUFACTURED BY "H.B. SMITH".
2. AS MANUFACTURED BY "POWERFLAME".
3. AS MANUFACTURED BY "AUBURN".

SCHEDULE OF PUMPS

MARK	SERVICE	LOCATION	MODEL No. (1)	GPM	HEAD FT.H_2O	RPM	MOTOR HP/BHP	ELECTRIC SERVICE	PHYSICAL DATA (IN)	WEIGHT (LBS)	REMARKS
CWP-1 CWP-2	HEATING LOOP	MECHANICAL	SERIES E-1510 5GB	800	80	1800	30/21	460/3/60	25Wx56Lx30H	1100	REFER TO (2)(3)
CWP-3 CWP-4	HEATING LOOP	MECHANICAL	SERIES E-1510 3AD	300	130	1800	25/17.5		21Wx52Lx24H	900	REFER TO (2)(3)
CWP-5 CWP-6	HEATING LOOP	MECHANICAL	SERIES E-1510 3AD	300	130	1800	25/17.5		21Wx52Lx24H	900	REFER TO (2)(3)
CWP-7 CWP-8 CWP-9	HEATING LOOP	MECHANICAL	SERIES E-80 4x4x9.5B	200	20	1170	2/1.5		12Wx25Lx29H	300	REFER TO (2)(3)
CWP-10 CWP-11	HEATING LOOP	MECHANICAL	– –	200	75	1750	7.5/–		–	–	REFER TO (4)

NOTES
1. AS MANUFACTURED BY "BELL & GOSSETT".
2. INSTALL PUMPS PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE VFD'S FOR ALL PUMPS. VFD'S SHALL BE WALL OR STAND MOUNTED NEAR PUMPS. PROVIDE ALL MOUNTING HARDWARE.
4. EXISTING PUMPS SHALL BE INSPECTED, REFURBISHED TO EXISTING DESIGN CONDITIONS. REPAIR PUMPS AS REQUIRED IF FOUND NOT OPERATING PROPERLY. PROVIDE INITIAL WATER BALANCING REPORT PRIOR TO HEAT EXCHANGER DEMOLITION FOR BASELINE OF EXISTING PUMP PERFORMANCES.

SCHEDULE OF UNIT VENTILATORS

MARK	MODEL No.	CFM	MIN. (2) O.A. CFM	COOLING DATA TOTAL CAPACITY MBH	COOLING DATA SENSIBLE CAPACITY MBH	HEATING DATA (2) CAPACITY MBH	GPM	ROWS	FILTER TYPE	MOTOR H.P.	ELEC. SERV.	MOTOR FLA	MCA	MOP	PHYSICAL DATA DIMENSION / WEIGHT	REMARKS
UV-A	FRESHMAN HNA1000BC (1)	1000	550	–	–	76	5	2	THROWAWAY (2)12"x20"x2"	0.5 EA	208/1/60	4.7	9.5	15	40"Lx35"Wx115"H/600LBS	REFER TO (3)(4)
UV-B	FRESHMAN HNA1800BC (1)	1750	550	–	–	76	5	2	THROWAWAY (2)12"x20"x2"	0.5 EA	208/1/60	4.7	14.4	20	47"Lx35"Wx115"H/600LBS	(3)(4)
UV-C	MAUV1500	1500	1055	–	–	84	9	3	THROWAWAY	0.5	115/1/60	4.7	5.9	15	100"Lx22"Wx30"H/750LBS	(3)(5)

NOTES
1. AS MANUFACTURED BY "CHANGEAIR SYSTEMS".
2. AS MANUFACTURED BY "MAGIC AIRE CORP".
3. BASED ON 160° F E.W.T., 140° F L.W.T.
4. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
4. UNIT SHALL INCLUDE ERV (ENERGY RECOVERY WHEEL) PACKAGE, SOUND PACKAGE, HOT WATER HEATING COIL, DX COIL FOR FUTURE CONNECTION, 24" HIGH ACOUSTICALLY LINED SUPPLY PLENUM WITH MULTIPLE REGISTERS, FIELD ERECTED TOP EXTENSION SECTIONS TO CEILING, MODULATING ECONOMIZER (100% OA) CONTROLS, POWERED EXHAUST, FIELD ERECTED REAR PLENUM SECTIONS, FULL SIZE LOUVER, BACNET CONTROLLER, ISOLATION VALVES, STRAINERS, PT PORTS, BRAIDED HOSE-KIT, 2" THICK MERV 13 FILTERS, SIDE PIPE COVERS, FULL HEIGHT SIDE PANELS FROM UNIT TO WALL AND TOP/BOTTOM TRIM/COVE BASE PIECES. (ALL EXTENSIONS, PANELS, PIPE ENCLOSURES AND TRIM/COVE BASE PIECES SHALL MATCH UNIT COLOR AND FINISH).
5. UNIT SHALL INCLUDE HOT WATER HEATING COIL, FULL ADAPTER BACK WITH PIPE TUNNEL, INSULATED VALVE PACKAGE, DISCHARGE GRILLE WITH SCREEN, INSULATED OUTSIDE AIR DAMPER, FACE AND BYPASS DAMPER, 2" MERV 8 FILTERS, DX COIL FOR FUTURE CONNECTION. (2)

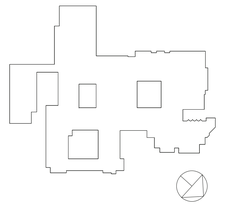
SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (#P/1000 SQ.FT.)	C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	D AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	F NUMBER OF PEOPLE (A×B)÷1000=#P	G OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F×C)+(A×D)=CFM	H ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	I MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIMUM EXHAUST AIR FLOW RATE A×E=CFM
H203											
CLASSROOM 191	CLASSROOM (AGES 9+)	743	35	10	0.12	0	27	359	0.8	449	0
CONFERENCE ROOM 192	CONFERENCE/MEETING	377	50	5	0.06	0	19	118	0.8	147	0
OFFICE 112	OFFICE SPACE	99	5	5	0.06	0	1	11	0.8	14	0
OFFICE 116	OFFICE SPACE	105	5	5	0.06	0	1	11	0.8	14	0
NURSE 118	OFFICE SPACE	115	5	5	0.06	0	1	12	0.8	15	0
TOILET 118A	TOILETS - PUBLIC	53	2 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	100
ROOM 143I	BREAK ROOMS	50	50	5	0.12	0	3	21	0.8	26	0
H204											
MIDDLE SCHOOL GYM 131	GYM, SPORTS ARENA (PLAY AREA)	5287	7	20	0.18	0.5	45	2032	0.8	2540	3144
H205											
LEARNING COMMONS 143	MEDIA CENTER	1996	25	10	0.12	0	50	740	0.8	924	0
OFFICE 141A	OFFICE SPACE	253	5	5	0.06	0	2	25	0.8	31	0
CLASSROOM 136	CLASSROOM (AGES 9+)	677	35	10	0.12	0	24	321	0.8	402	0
CLASSROOM 138	CLASSROOM (AGES 9+)	677	35	10	0.12	0	24	321	0.8	402	0
CLASSROOM 140	CLASSROOM (AGES 9+)	677	35	10	0.12	0	24	321	0.8	402	0
TEACHER WORKROOM 145	CLASSROOM (AGES 9+)	756	35	10	0.12	0	27	361	0.8	451	0
H206											
HIGH SCHOOL GYM 179	GYM, SPORTS ARENA (PLAY AREA)	6987	7	20	0.18	0.5	63	2878	0.8	3597	4494
AUXILARY GYM 177	GYM, SPORTS ARENA (PLAY AREA)	5507	7	20	0.18	0.5	39	1771	0.8	2214	2754
H207											
CAFETERIA	CAFETERIA/FAST-FOOD DINING	4488	100	7.5	0.18	0	449	4175	0.8	5219	0
H209											
CLASSROOM 221	CLASSROOM (AGES 9+)	691	35	10	0.12	0	25	333	0.8	416	0
CLASSROOM 223	CLASSROOM (AGES 9+)	691	35	10	0.12	0	25	333	0.8	416	0
CLASSROOM 225	CLASSROOM (AGES 9+)	691	35	10	0.12	0	25	333	0.8	416	0
CLASSROOM 224	CLASSROOM (AGES 9+)	920	35	10	0.12	0	33	440	0.8	551	0
CLASSROOM 226	CLASSROOM (AGES 9+)	716	35	10	0.12	0	25	346	0.8	432	0
CLASSROOM 218	CLASSROOM (AGES 9+)	1040	35	10	0.12	0	37	495	0.8	619	0
CLASSROOM 220	CLASSROOM (AGES 9+)	1030	35	10	0.12	0	37	494	0.8	617	0
CLASSROOM 222	CLASSROOM (AGES 9+)	908	35	10	0.12	0	32	429	0.8	536	0
H210											
OFFICE 239	OFFICE SPACE	870	5	5	0.06	0	5	77	0.8	97	0
OFFICE 240	OFFICE SPACE	870	5	5	0.06	0	5	77	0.8	97	0
H211											
LEARNING STUDIO 310	CLASSROOM (AGES 9+)	402	35	10	0.12	0	15	198	0.8	248	0
LEARNING STUDIO 312	CLASSROOM (AGES 9+)	402	35	10	0.12	0	15	198	0.8	248	0
LEARNING COMMONS	CLASSROOM (AGES 9+)	2240	35	10	0.12	0	79	1059	0.8	1324	0
SGR 315	CLASSROOM (AGES 9+)	105	35	10	0.12	0	4	53	0.8	66	0
ELEVATOR LOBBY 300	LOBBIES	80	150	5	0.06	0	12	65	0.8	81	0

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

Revision Schedule

No.	Description	Date
1	SED Submission	09/15/2020
3	ISSUED FOR BID	01/19/2021
5	BID ADDENDUM #2 (2)	02/05/2021



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SED #: 6618-0001-0005-031

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Rye High School & Middle School
1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE SCHOOL SCHEDULE

SEAL & SIGNATURE

DATE: 11/07/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: H2-302