	SCHEDULE OF EXISTING AIR HANDLING UNIT																									
	C	SENERAL DATA			FAN	DATA			HEATING				NG DATA	34		ENSING UNIT	f	TILTER D	DATA	PHYSIC	CAL DATA	E	LECTRI	ICAL [DATA	
		MODEL NUMBER	OAI CFM MAX./MIN.	CFM	EXT. S.I IN H ₂ O	P. FAN RPM	MOTOR HP	TOTAL CAP. MBH	ENT. AIR TEMF DB °F	P. 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	REMARKS
AHU1 EXIST	AUXILIARY GYM AUXILIARY GYM	_	4500 1800	4500	1.0	-	_	205	40	110	170	120	78/65	55/54	<u>CU</u>	AUXILIARY GYM	_	_	MERV 13	_	_	_	_	_	208/3/60	REFER TO ②⑤
AHU2 EXIST	AUXILIARY GYM	_	4500 1800	4500	1.0	_	_	205	40	110	170	120	78/65	55/54	<u>CU</u> 12	AUXILIARY GYM	_	_	MERV 13	_	_	_			208/3/60	2 6

N 1 AS MANUFACTURED BY "CARRIER".

6 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.

0 (2) REFURBISH IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.

F (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).

S 4 BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A, SEER 12.0,

			SC	CHED	ULE	OF U	NIT H	HEATER		
MARK	MODEL No. (1)	BTU/HR	CAPACIT EWT °F	Y DATA LWT °F	GPM	MOTOR WATTS	ELECTRIC SERVICE		DATA WEIGHT (LBS)	REMARKS
UH A	HS-18	11725	160	140	1.0	9	120/1/60			REFER TO (1)(2)(3)(4)

N (1) AS MANUFACTURED BY "STERLING".

O INSTALL PER MANUFACTURER'S RECOMMENDATIONS

E CAPACITIES BASED ON HIGH SPEED FAN SETTING AND HW 160°F/140°F

5 (4) QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS.

	SCHEDULE OF CABINET HEATERS														
MARK	TYPE UNIT	MODEL N≗	CAP. BTU/HR	ACITY L CFM		2 PD.FT.	MOTOR HP	MOTOR RPM	ELECTRIC SERVICE	PHYSICAL (IN)	DATA WEIGHT (LBS)	REMARKS			
CH A	RECESSED CLG. MTD.	RC1200-03	21,900	265	3.0	0.77	1/15	1100	120/1/60	43Wx25Lx10H	125	REFER 10 234			
CH B	RECESSED WALL MTD.	RW1120-03	21,900	265	3.0	0.77	1/15	1100	120/1/60	43Wx25Lx10H	125	REFER 10 234			

N 0 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

	SCHEDULE OF CONVECTORS														
MARK	MODEL	MBH	GPM	F	PHYSICA	AL DA		REMARKS							
7777 17 (7 (No. ①	ווטווו	07 777	D	L	Н	WEIGHT								
CONV	SF-A	3.5	1.0	4"	36"	26"	50	REFER TO							
CONV	SF-A	8.0	2.0	6"	48"	32"	<i>75</i>	23							
CONV	SF-A	11.0	2.0	6"	64"	32"	100	23							

N (1) AS MANUFACTURED BY "STERLING". (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS

(3) CAPACITIES BASED ON 150° A.W.T.

SC	HEDULE	OF EX	PANSION	V TANK
MARK	MODEL N≗ ⊙	TANK VOLUME GALS.	ACCEPTANCE VOLUME GALS.	REMARKS
ET 1	B-400	106	106	REFER TO 23

 $\bigcap_{i=1}^{n} \bigcap_{j=1}^{n} AS$ MANUFACTURED BY "BELL & GOSSETT".

T (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 3 VERTICAL MOUNTING 125PSI ASME TANK, DIMENSIONS 24"x65"H / 1200LBS.

				SC	HED	ULE	OF	DU	CT N	10UN	ITED F	HEATII	VG	CO	ILS		
		GENERAL	. DATA			SIZE				Al	R SIDE				WATER		
-	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)	$PRESS DROP \ \Delta HEAD (FT)$	REMARKS
	HC 1	HIGH SCHOOL	ERU 1	_	-		2 MINIMUM	12 MAXIMUM	6600	435	0.2" MAX	600 MAX.	10	70	STEAM	5 FT. MAX	REFER TO ①②③
-	HC 2	HIGH SCHOOL	ERU 2	_	_	ı			6600	435					STEAM		
-	$\frac{HC}{3}$	HIGH SCHOOL	ERU 3	_	-	_			600	36					STEAM		
	HC 4	HIGH SCHOOL	ERU 4	_	ı	-			400	27					3.0		
	HC 5	HIGH SCHOOL	ERU 5	_	-	-			200	14					2.0		
	HC 6	HIGH SCHOOL	ERU 6	_	-	-			6000	396					40.0		
J	HC 7	MIDDLE SCHOOL	ERU3 EXIST	_	-	-			8000	528					53.0		
1	HC 8	HIGH SCHOOL	ERU 8	_	-	-			1500	99					10.0		
	HC 9	HIGH SCHOOL	ERU 9	-	-	-			400	27					3.0		
	(HC)	MIDDLE SCHOOL	<u>ERU</u> 11	_	_	-	V		400	27		V	V		3.0		

(2) PROVIDE INSPECTION AND CLEANING DUCT ACCESS DOOR ON UPSTEAM SIDE OF COIL.

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 BOILERS														
Bo	OILER DATA														
MARK	LOCATION	MODEL Nº ①	INPUT (MBH)	OUTPUT (MBH)	FUEL	SERVICE	MCA	(IN)	WEIGHT (LBS)	REMARKS					
B B B B 4 5 6	BOILER ROOM	ENDURA 1000	1000	902	GAS	120/1/60	20	28Wx51Lx68H	2000	REFER TO 23456					

 $oldsymbol{\mathsf{N}}$ (1) as manufactured by "fulton".

2 BURNER INTEGRAL TO BOILER.

[3] INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 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 6 HOT WATER BASED ON 140°F E.W.T., 160°F L.W.T. 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

	SCHEDULE OF EXISTING STEAM BOILERS BOILER DATA BURNER DATA INDUCED DRAFT FAN DATA														
MARK	SERVICE	MODEL NUMBER OF MODEL OUTPUT OUTPUT BOILER FIRING RATE FIRING RATE BURNER OIL PUMP MODEL MOTOR N° © (BHP) (MBH/HR) EFFICIENCY OIL (GPH) GAS (MBH) MOTOR HP MOTOR HP N° © HP												REMARKS	
BOILER #1	ORIG.BLDG. & ADDITION	6500 -S-21	21	C7-G0)– <i>30</i>	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	V	•	v	V	1	•	,	 	•	V	,	•	•		

OUTDOOR AIR FLOW

RATE WITHOUT ZONE

EFFECTIVENESS

FACTOR

 $(F \times C) + (A \times D) = CFM$

NUMBER OF

PEOPLE

(A×B)÷1000=#P

27

EXHAUST AIR FLOW RATE

(CFM/SQ.FT.)

0

ZONE AIR

DISTRIBUTION

EFFECTIVENESS

FACTOR

0.8

0.8

0.8

0.8

0.8

0.8

77

1059

5

79

12

97

97

248

1324

66

0

0

0

MINIMUM ROOM

FLOW RATE

G÷H=CFM

449

VENTILATION AIR

EXHAUST

AIR FLOW

A×E=CFM

N (1) AS MANUFACTURED BY "H.B. SMITH". $\stackrel{Q}{\leftarrow} \stackrel{\swarrow}{(2)}$ as manufactured by "Powerflame". (3) AS MANUFACTURED BY "AUBURN".

ROOM AREA

743

ROOM NAME/NUMBER | OCCUPANCY CATEGORY

CLASSROOM (AGES 9+)

CONFERENCE/MEETING

OFFICE SPACE

OFFICE SPACE

CLASSROOM (AGES 9+)

CLASSROOM (AGES 9+)

LOBBIES

LEARNING STUDIO 312 | CLASSROOM (AGES 9+

LEARNING COMMONS | CLASSROOM (AGES 9+)

870

870

402

2240

105

80

5

35

150

H203 CLASSROOM 191

CONFERENCE ROOM

H210 OFFICE 239

OFFICE 240

H211 LEARNING STUDIO 310

SGR 315

ELEVATOR LOBBY 300

PEOPLE DENSITY

(#P/1000 SQ.FT.)

	SCHEDULE OF PUMPS														
MARK	RK SERVICE LOCATION MODEL Nº O GPM FT.H₂O RPM MOTOR ELECTRIC PHYSICAL DATA HP/BHP SERVICE (IN) WEIGHT (LBS)														
	HEATING LOOP	MECHANICAL	SERIES E-1510 5GB	800	80	1800	30/21	460/3/60	25Wx56Lx30H	1100	REFER TO 23				
HWP HWP 4	HEATING LOOP	MECHANICAL	SERIES E-1510 3AD	300	130	1800	25/17.5		21Wx52Lx24H	900	REFER TO 23				
HWP HWP 5	HEATING LOOP	MECHANICAL	SERIES E-1510 3AD	300	130	1800	25/17.5		21Wx52Lx24H	900	REFER TO 23				
<u>HWP\HWP\HWP</u> 7 8 9	HEATING LOOP	MECHANICAL	SERIES E-80 4x4x9.5B	200	20	1170	2/1.5		12Wx25Lx29H	300	REFER TO 23				
EHWP EHWP	HEATING LOOP	MECHANICAL	_ _	200	<i>75</i>	1750	7.5/-	↓	_	_	REFER TO 4				

 $\begin{array}{c}
N \\
O \\
T
\end{array}$ AS MANUFACTURED BY "BELL & GOSSETT".

TO INSTALL PUMPS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE VFD'S FOR ALL PUMPS. VFD'S SHALL BE WALL OR STAND MOUNTED NEAR PUMPS. PROVIDE ALL MOUNTING HARDWARE.

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														
	MODEL		MIN.2	COOLING	G DATA	HEAT	TNG DA	TA 2	<i></i>		<i></i>			DUVCIONI DATA	
MARK	MODEL No.	CFM	O.A. CFM	TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	CAPACITY MBH	GPM	ROWS	FILIER		ELEC. SERV.		MCA	PHYSICAL DATA DIMENSION / WEIGHT	REMARKS
UV A	VER1000 O	1000	550	1	_	76	5	2	THROWAWAY (2)12"x20"x2"	0.5 EA	208/1/60	4.7	1	44"Lx30"Wx115"H/600LBS	REFER TO
UV B	VER1800 ①	1800	1055	_	_	76	5	2	THROWAWAY (2)12"x20"x2"	0.5 EA	208/1/60	4.7	7	44"Lx30"Wx115"H/600LBS	34
UV C	MAUV1500	1500	1055		_	84	9	3	THROWAWAY	0.5	115/1/60	4.7	5.9	100"Lx22"Wx30"H/750LBS	35

N (1) AS MANUFACTURED BY "TEMSPEC INC". O 6 AS MANUFACTURED BY "MAGIC AIRE CORP". T 2 BASED ON 160° F E.W.T., 140° F L.W.T.

WATER HEATING COIL, 24" HIGH ACOUSTICALLY LINED SUPPLY PLENUM WITH MULTIPLE REGISTERS, FIELD ERECTED TOP EXTENSION SECTIONS TO CEILING, MODULATING ECONOMIZER (100% OA) CONTROLS, E 3 INSTALL PER MANUFACTURER'S RECOMMENDATIONS POWERED EXHAUST, FIELD ERECTED REAR PLENUM SECTIONS, FULL SIZE LOUVER, FACTORY INSTALLED CONTROLS, CONTROL VALVES

ISOLATION VALVES, STRAINERS, PT PORTS, BRAIDED HOSE-KIT, HIGH EFFICIENCY MOTORS, 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).

4 UNIT SHALL INCLUDE ERV (ENERGY RECOVERY WHEEL) PACKAGE, HOT

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, DDC CONTROL PACKAGE, NIGHT SETBACK CONTROL RELAY, BACNet CONTROLLER.

	•		•		1					•	
OFFICE 112	OFFICE SPACE	99	5	5	0.06	0	1	11	0.8	14	О
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 1431	BREAK ROOMS	50	50	5	0.12	0	3	21	0.8	26	0
H204											
MIDDLE SCHOOL GYM 131	GYM, SPORTS ARENA (PLAY AREA)	6287	7	20	0.18	0.5	45	2032	0.8	2540	3144
H205											
LEARNING COMMONS 143	MEDIA CENTER	1996	25	10	0.12	o	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)	8987	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	26	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

0.06

0.12

0.12

0.12

0.06

SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

RATE IN BREATHING ZONE

(CFM/SQ.FT.)

0.12

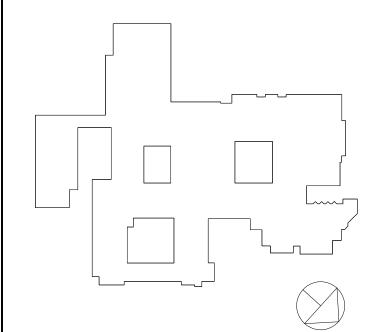
PEOPLE OUTDOOR AIR AREA OUTDOOR AIR FLOW

FLOW RATE

(CFM/PERSON)

Date Description 09/15/2020 SED Submission 01/08/2021 SED Submission Addendum#1 ISSUED FOR BID 01/19/2021

Revision Schedule



Geddis **Architects**

Architecture. Planning. Interiors

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SED #: 6618-0001-0005-032

PROJECT

Rye City School District 555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School

1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE SCHOOL SCHEDULE

SEAL & SIGNATURE | DATE: PROJECT No: 9200

DRAWING BY: BGA CHK BY: BGA DWG No: H2-302

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

DBE: TAB: Layout1 - Y:\RYE CITY SD\Rye CSD - 2019 Bond - Phase 2 (1937.00)\Drawings\HVAC\a193700H-302-MHS.dwg - DATE: Jan 15, 2021 - 3:22pm