													ROO	F TOP	ENEF	RGY RE	COVER	Y UNI	Γ									
			0.4	Ε.Δ.	D.4		C	OOLING COI	_			S	UPPLY FAN				E	HAUST FAN			TOTAL MADILION/ED	TOTAL MOULON/ED	OPERATING		EL FOTE	0.4.1	TVDIOAL LINIT MEO	
MARK	LOCATION	AREA SERVED	(CFM)	(CFM)	(CFM)	TOTAL MBH	SENS MBH	EAT	LAT	AMB	FAN TYPE	E.S.P. (IN. WC)	RPM	BHP	HP	FAN TYPE	E.S.P. (IN. WC)	RPM	ВНР	HP	TOTAL MBH SAVED SUMMER	TOTAL MBH SAVED WINTER	WEIGHT (LBS)	FILTERS	ELECTF REQUIRE V/Ø/HZ FL/		TYPICAL UNIT MFG & MODEL NO.	REMARKS:
RTU-4	CAFÉ ROOF	CAFETERIA	9100	6000	6000	486	320	79.7	54.07	75	PLENUM	1	1760	11.89	15	PLENUM	0.5	1760	9.39	10	183	511	3780	MERV 13	208/360 195	207	AAON RN-025-8-0- EB09-EJK	1,2,3,4
REMARKS:		OUNTED AND WIRED				CE OUTLET, FA				SWITCH,						·												

2. ECM CONDENSER FAN, HEAT PRESSURE CONTROL WITH SIGHT GLASS. REMOTE SAFETY SHUTDOWN TERMINAL.

TERMINAL STRIP FOR BMS CONTROL OF FAN AND DAMPERS. COMPATIBLE WITH JOHNSON CONTROLS FACILITY EXPLORER.
 DOUBLE WALL, R-13 FOAM INSULATION. STAINLESS STEEL DRAIN PAN.

		Al	R SEP	ARATO	R SCH	EDULE		
MARK	LOCATION	SERVED	GPM	WEIGHT (LBS)	DIA. (IN)	LNG. (IN)	STRAINER SQ. IN. FA	TYRICAL UNITWIFE & MODEL NO.
AS-1	CHILLER PUMP ROOM	CHILLED WATER	300	579	18	44	6	B&G R-6F
REMARKS:	1. 30% PROPYLENE GI	LYCOL.						1 1 1 1 1

				PUN	IP	SCHE	DULE				
MARK	LOCATION	SERVICE	GPM	HD	\ L	ELÈ	CTRICAL DA	TA		TYPICAL UNIT MFG	\ REMARKS:
IVIAIXIX	LOCATION	OLIVIOL	OI W	(FT.)	7	HP) VOLTS	PH\	>	& MODEL NO.	INLIVIATO.
P-1	STORAGE 423	CHILLED WATER	300	80		15	208	3		B&G E-1510 3BD	1,2,3
P-2	STORAGE 423	CHILLED WATER	300	80	7	15	208	3	>	B&G E-1510 3BD	1,2,3
REMARKS:	1. 30% PROP	YLENE GLYC	OL.		7						<
	2. SUCTION D	IFFUSER.			,		1		1	\sim	
	3. WALL MOU	INTED VFD UI	NIT DISCONN	ECT.					`		_1\

			VRF FA	N COIL U	NITS			
MARK	TOTAL AIRFLOW CFM	NOM.HEATING CAPACITY BTU/HR	NOM.COOLING CAPACITY BTU/HR	WEIGHT (LBS)	POWER (Ø/V/HZ)	AMPS	TYPICAL UNIT MFG & MODEL NO.	REMARKS
SSI-1	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5
SSI-2	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5
SSI-3	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5
SSI-4	1500	27000	24000	47	1 / 208 / 60	- 0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5
SSI-5	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5
SSI-6	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5
SSI-7	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5
SSI-8	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5
SSI-9	250-430	21500	15000	23.4	1 / 208 / 60	1	SAMSUNG - AR12TSFABWKNCV	1,2,3,4,5
REMARKS:	1. UNIT MOUNTED	AND WIRED DISCON	NECT.					
	2. BAC NET INTER	RGRATION TO BMS, JC	HNSON CONTROLS FA	CILITY EXPLORER	₹.			
	3. COLOR WHITE 4. DRAIN PAN LEV	✓ \ <u></u>				1		

		EXPA	NSION	TANK	SCHED	ULE		
MARK	LOCATION	SERVED	ACCEPT. GAL.	DIA (IN.)	HEIGHT (IN.)	WEIGHT FULL (LBS.)	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
ET-1	CHILLER PUMP ROOM	CHILLED WATER	79	20	58	992	TACO CA-300	1,2
REMARKS:	1. REMOVABLE BLADE	DER TYPE			•			
	2. CHARGE TO 12PSI.							
	3. 30% PROPYLENE GL	YCOL.						

				ı	FIN TUI	BE SCI	HEDUL	E			
MARK	DTI I/ET	ODM.	TUBE	FINS /	EWT	EAT		ENCLOSUR	E	TYPICAL UNIT MFG	DEMARKO
MARK	BTU/FT.	GPM	SIZE (IN.)	FT.	(°F)	(°F)	H (IN.)	D (IN.)	STYLE	& MODEL NO.	REMARKS
FT-1	720	5	3/4	40	180	65	10-3/4	6-1/16	PEDESTAL	STERLING JVB	1,2,3,4
REMARKS:	1. CONTRO	L VALVES AB	OVE THE CEI	LING.				1	1		1
	2. COLOR B	Y ARCHITEC	Т.								
	3. ELEMENT	LENGTH LIS	STED ON PLAN	NS. CAT - 662	89C RETURN						
	4. COORDIN	IATE HEIGHT	WITH ELECT	RICAL DEVIC	ES.						

						C	HILLE	R SCHI	EDULE						
	NOMINAL	0/ 5565		Cł	HILLED WATE	R		REFRIG	ERANT	EL	ECTRICAL DA	ATA	==	-	
MARK	CAPACITY (TONS)	% PROP GLYCOL	FLOW (GPM)	DELTA P (FT)	IPLV	EWT (°F)	LWT (°F)	REF. TYPE.	CHARGE (LB)	VOLTS/Ø	MCA	MOP	WEIGHT (LBS)	TYPICAL UNIT MFG & MODEL NO.	REMARKS
CH-1	180	30	270	17.42	20.516	56.97	42.00	134A	420.00	230/3	654	800	15700	TRANE-ACRB1805B	1,2,3,4
REMARKS:				DISCONNEC		TURERS ES	TIMATE, CO	ORDINATE TH	HE CORREC	T CHARGE B	ASED ON FI	ELD CONDITI	ONS.		

FIVE YEAR COMPRESSOR WARRANTY.
 HEAT TRACED EVAPORATOR BARREL AND EXTERIOR PIPING. HEAT TRACE SHALL BE ON SEPARATE 120V/20AMP CIRCUIT.

2. PROVIDE WITH 1" MERV 7 FILTERS3. 30% PROPYLENE GLYCOL COOLING COIL.

4. CONDENSATE PUMP.5. ALTERNATE NO. MC-2

						FAN	I COIL	UNIT S	CHEDU	LE						
MARK	TYPE	LOCATION	MAX CFM		COOLING				HEATING			EL	ECTRICAL DA	TA	TYPICAL UNIT MFG	REMARKS:
IVIARK	TTPE	LOCATION	IVIAX CFIVI	MBH	GPM	WPD	MBH	EWT (°F)	WATER ∆T	GPM	WPD FT WC	WATTS	VOLTS	PHASE	& MODEL NO.	REWARNS:
FC-1	DUCTED	159 CUSTODIAN	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-2	CEILING RECESSED	GROUND FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4
FC-3	CEILING RECESSED	GROUND FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-4	CEILING RECESSED	1ST FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-5	CEILING RECESSED	1ST FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-6	CEILING RECESSED	2ND FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-7	CEILING RECESSED	2ND FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-8	CEILING RECESSED	1ST FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-9	CEILING RECESSED	3RD FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-10	DUCTED	105B SCHOOL PYCHOLOGIST	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4
FC-11	CEILING RECESSED	3RD FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5

								AIR	HAND	LING	UNIT S	SCHED	ULE								
							COOLING I	MBH				HOT WA	TER HEATING	G COIL DATA			SUPPLY	FAN MOT	OR DATA		
MARK	ROOM SERVED	CFM	MIN. OA CFM	EXT. SP W.C.	TOTAL	SENS	ROWS	EAT °F DB/WB	LAT °F DB/WB	МВН	EWT	LWT	EAT °F	LAT °F	GPM	WPD FT-W.C.	BHP/HP	RPM	VOLTS/Θ	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
AHU-1	GYM	3500	750	1.5	145	102	4	83.2/68.8	57.9/56	204	180	138	58.7/55.6	111.5/72.7	10	0.7	3.3/4	1935	208/3/60	AAON: H3-DRB-8-0-162D-12F	1,2,3,4,5
AHU-2	GYM	3500	750	1.5	145	102	4	83.2/68.8	57.9/56	204	180	138	58.7/55.6	111.5/72.7	10	0.7	3.3/4	1935	208/3/60	AAON: H3-DRB-8-0-162D-12F	1,2,3,4,5
AHU-3	GYM	3500	750	1.5	145	102	4	83.2/68.8	57.9/56	204	180	138	58.7/55.6	111.5/72.7	10	0.7	3.3/4	1935	208/3/60	AAON: H3-DRB-8-0-162D-12F	1,2,3,4
AHU-4	GYM	3500	750	1.5	145	102	4	83.2/68.8	57.9/56	204	180	138	58.7/55.6	111.5/72.7	10	0.7	3.3/4	1935	208/3/60	AAON: H3-DRB-8-0-162D-12F	1,2,3,4
AHU-5	KITCHEN	2600	500	1	98.3	70.57	6	80/67	56.1/44.7	128.7	180	127	60.4/56.6	105.4/71.3	5	0.3	1.68/4	1552	208/3/60	AAON:H3-CRB-8-0-162C-12F	1,2,3,4,5
AHU-6	MUSIC	4200	1500	1.2	185.6	129.7	6	85.4/70.2	57.8/56.3	266.4	180	122.3	47.9/47.9	104.2/68.5	9.5	0.7	3.12/4	1901	208/3/60	AAON: H3-DRB-8-0-162C-12F	1,2,3,4,5
REMARKS:	1. FACTORY MOUNTED A	ND WIRE	D DISCONNEC	T. ALL UNITS	SHALL BE	SINGLE POINT	CONNECTION	ON.	•	'				•				•	'		•

2. DAMPER ACTUATORS BY MANUFACTURER. FULLY MODULATING ACCUATORS. MERV 13 FILTERS. MAGNEHELIC HAUGE CLOG FILTER SWITCH. THERMAL EXPANSION VALVES.

2. DAMPER ACTUATORS BY MANUFACTURER. FULLY MODULATING ACCUATORS. MERV 13 FILTERS. MAGNEHELIC HAUGE CLOG FILTER SWITCH. THERMAL EXPANSION VALVES
3. CONNECT TO EXISTING JOHNSON CONTROLS, FACILITY EXPLORER.

REMARKS: 1. FACTORY MOUNTED AND WIRED DISCONNECT.
2. HINGED BASE AND BIRD SCREEN.

4. PROVIDE WITH SLOPPED CURBS.

3. ALTERNATE MC-5.

4. VIBRATION ISOLATION.

FINISH

WHITE

REGISTERS, GRILLES, AND DIFFUSERS

TYPE

LAY-IN

STEEL DUCT GRILLE WHITE

STEEL DUCT GRILLE WHITE

LAY-IN

WALL GRILLE WHITE

APPLICATION MATERIAL

SUPPLY

RETURN/EA

RETURN/EA

REMARKS: 1. OPPOSED BLADE DAMPER.

CONCEALED MOUNTING.

4. INSULATED BACK PAN.

STEEL

STEEL

STEEL

3. SINGLE DEFLECTION, BLADES PARALLEL TO LENGTH.

D1

D2

S1

5. CONTROLS RELOCATED BY OTHERS FROM EXISTING UNIT.

DESIGN EQUIP.

PRICE SPD

PRICE SDG

PRICE HCD

PRICE PDR

PRICE 90

REMARKS

4

1,3

2,3

						НОТ	WATE	R COIL	SCHE	DULE				
				AIR DATA				WATER	R DATA		MEO OLZE		TVDICAL LINIT MEC	
MARK	SERVICE	CFM	TEMI	⊃ (°F)	MAX APD	MIN.	GPM	TEMI	P (°F)	MAX APD	MFG SIZE HXL (IN.)	ROWS	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
		CFIVI	ENT	LVG	(IN. WC)	MBH	GFIVI	ENT	LVG	(IN. WC)	TIXE (IIV.)		a Mobile No.	
HC-1	SF-9	2250	-2	70	0.76	174,960	18.8	180	160	3.8	15X22	2	CAPITAL COIL W8-2215-12B-HCA-R	1,2
HC-2	RTU-4	9100	-2	70	0.56	707,616	70.8	180	160	4.5	46X30	4	CAPITAL COIL	1
REMARKS:	1. TUBE OD	0.625, FUBE S	SPACING 1.50	X1.299										
(2 AL TEDNIAT	YN 40 0 \												,

					FAN	SCHE	DULE					
MARK	LOCATION	SERVICE	TYPE	CFM	SP IN W.G.	RPM	HP	ELECTRIC/ VOLTS	AL DATA PHASE	AMPS	TYPICAL UNIT MFG & MODEL NO.	REMARKS
EF-1	GYM	LOCKER ROOM EXHAUST	CENTRIFUGAL	1500	0.75	1457	.25	115	1	3.8	GREENHECK G-100-VG	1,2,4
EF-2	GYM	LOCKER ROOM EXHAUST	CENTRIFUGAL	1500	0.75	1457	.25	115	1	3.8	GREENHECK G-100-VG	1,2,4
EF-3	ROOF	CLASSROOM EXHAUST	CENTRIFUGAL	2000	0.5	948	1/2	208	1	5.4	GREENHECK GB-161	1,2
EF-4	ROOF	MUSIC ROOM	CENTRIFUGAL	1400	1	1725	1/2	208	1	5.4	GREENHECK G-123-A	1,2
EF-5	ROOF	CLASSROOM EXHAUST	CENTRIFUGAL	1250	1	1725	1/2	208	1	4.9	GREENHECK G-123-1	1,2
EF-6	ROOF	CLASSROOM EXHAUST	CENTRIFUGAL	4500	1	1102	2	208	1	12	GREENHECK G-200	1,2
SF-1	ATTIC	CLASSROOM OA	INLINE	10000	1.5	824	5	208	3	16.7	GREENHECK BSQ-300	1
SF-2	ATTIC	CLASSROOM OA	INLINE	3750	0.4	539	1/2	208	3	2.4	GREENHECK BSQ-240	1
SF-3	ATTIC	CLASSROOM OA	INLINE	8750	1.5	1147	5	208	3	16.7	GREENHECK BSQ-240	1
SF-4	-	-	-	-	-	-	-	-	-	-	NOT USED	-
SF-5	-	-	-	-	-	-	-	-	-	-	NOT USED	-
SF-6	ATTIC	CLASSROOM OA	INLINE	7000	0.75	875	2	208	3	7.5	GREENHECK BSQ-240	1
SF-7	ATTIC	CLASSROOM OA	INLINE	7500	1	964	3	208	3	10.6	GREENHECK BSQ-240	1
SF-8	ATTIC	CLASSROOM OA	INLINE	6750	1.5	1012	5	208	3	16.7	GREENHECK BSQ-240	1
SF-9	TECH	CLASSROOM OA	INLINE	2250	0.5	992	1/2	208	1	5.4	GREENHECK BSQ-160	1,3
RF-1	ATTIC	CLASSROOM EA	INLINE	13750	1.25	675	7-1/2	208	3	24.2	GREENHECK BSQ-360	1
RF-2	ATTIC	CLASSROOM EA	CENTRIFUGAL	3750	0.8	738	1	208	3	4.6	GREENHECK GB-220	1,2
RF-3	ATTIC	CLASSROOM EA	INLINE	3750	0.4	539	1/2	208	3	2.4	GREENHECK BSQ-240	1
RF-4	ATTIC	CLASSROOM EA	INLINE	2500	0.25	585	1/3	208	3	2.4	GREENHECK BSQ-200	1
RF-5	ATTIC	CLASSROOM EA	INLINE	1250	0.25	623	1/4	208	3	2.4	GREENHECK BSQ-160	1
RF-6	ATTIC	CLASSROOM EA	INLINE	6250	0.75	816	2	208	3	7.5	GREENHECK BSQ-240	1
RF-7	ATTIC	CLASSROOM EA	INLINE	4000	1	1038	1-1/2	208	3	6.6	GREENHECK BSQ-200	1
RF-8	ATTIC	CLASSROOM EA	INLINE	7250	1	945	3	208	3	10.6	GREENHECK BSQ-240	1

				AIR CO	OLE	ED C	ONDI	ENSE	R UNI	T S	CHEDUL	E	
							ELECTR	RICAL DAT	-A		OPERATING		
	MARK	LOCATION	SERVES	NOMINAL TONS	F	AN	COMPI	RESSOR	VOLT/Ø	MCA	WEIGHT	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
					NO.	HP	QTY	RLA	VOLITO	IVICA	(LBS.)		
	ACC-1	GYM	AHU-1	13	2	.75	2	20.4	208/3	59	1141	AAON CFA-013-B-A-8-DC00K	1,3
	ACC-2	GYM	AHU-2	13	2	.75	2	20.4	208/3	59	1141	AAON CFA-013-B-A-8-DC00K	1,3
	ACC-3	GYM	AHU-3	13	2	.75	2	20.4	208/3	59	1141	AAON CFA-013-B-A-8-DC00K	1,3
	ACC-4	GYM	AHU-4	13	2	.75	2	20.4	208/3	59	1141	AAON CFA-013-B-A-8-DC00K	1,3
	ACC-5	KITCHEN ROOF	AHU-5	8	2	1/3	2	16.1	208/3	39	1078	AAON CFA-009-B-A-8-DC00K	1,3,4
	ACC-6	KITCHEN ROOF	AHU-6	15	2	.75	2	25	208/3	66	1143	AAON CFA-015-B-A-8-DC00K	1,3,4
\wedge	AQC-7	RITCHEM ROOF	SSI-4 THRU 8	16	2	620W	2	28	208/3	73~	763	SAMSUNG AM192HXVAFH2AA	1,2,3,4
	SSO-9	KITCHEN ROOF	SSI-9	1 /	1	40W	1 <u>/</u>	9.2	208/1	12.5	70.8	SAMSUNG AR12TSFABWKXCV	1,2
	REMARKS:		MOUNTED AND WIRE	D DISCONNE	CTAND	HAIL GL	ARDS.						
		 LOW AMBIE VARIABLE 	ENT KIT. SPEED COMPRESSO	RS.									
		4. SPRING ISO	DLATORS.										

CPL | Architecture Engineering Planning
50 FRONT ST. SUITE 202
NEWBURGH, NY 12550

CPLteam.com

PROJECT INFORMATION

Project Number 13940.18

NEWBURGH ENLARGED CITY
SCHOOL DISTRICT

Project Name
PHASE 3: HERITAGE MIDDLE
SCHOOL 2019 CAPITAL
IMPROVEMENT PROJECT

405 Union Avenue, New Windsor, NY 12553

SED Number 44-16-00-01-0-039-011

Project Address

PROJECT ISSUE SCHEDULE

1 9/17/21 BID ADDENDUM #1 2 9/23/21 BID ADDENDUM #2

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Issued Scale
09/09/2021 12" = 1'-0"
Project Status
CONSTRUCTION DOCUMENTS
Drawn By Checked By
NRH JJM

HVAC SCHEDULES

Drawing Number

Drawing Title

HMS H900