HEAT PUMP SCHEDULE

	UNIT NUMBER	HP-B-1	HP-1-1	HP-1-2	HP-1-3	HP-2-1	HP-2-2	HP-2-3	HP-2-4	HP-2-5	HP-2-6	
	SERVICE	FRONT VESTIBULE	PRESCHOOL ROOM	CHILDCARE ROOM	AUDITORIUM	AFTER SCHOOL R. S.	AFTER SCHOOL R. N.	RECEPTION AREA	KITCHEN/ CORRIDOR	GALLERY/WAITING AREA	LIBRARY	
	MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	
	MODEL	GEHE-061	EXHE-060	EXVE-048	GEHE-1204	EXHE-042	EXHE-042	EXHE-030	EXHE-036	EXHE-030	EXHE-024	
FANS	C.F.M. (TOTAL/OUTSIDE AIR)	200	1700	1520	3960	1330	1330	1045	1254	1045	836	
	EXTERNAL STATIC PRESS. (IN WG)	0.65	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	FAN RPM/SPEED	MEDIUM SPEED	RATED CFM	RATED CFM + 10%	MEDIUM SPEED	MEDIUM SPEED	MEDIUM SPEED	MEDIUM SPEED	RATED SPEED +10%	MEDIUM SPEED	MEDIUM SPEED	
	FAN HP	0.083	1	0.75	3	0.75	0.75	0.5	0.75	0.5	0.33	
	CAPACITY (TONS)	1/2	5	4	10	3 1/2	3 1/2	2 1/2	3	2 1/2	2	
	SUPPLY/RETURN CONFIGURATION	REAR/LEFT	REAR/LEFT	REAR/LEFT	REAR/LEFT	REAR/LEFT	REAR/LEFT	REAR/LEFT	REAR/LEFT	REAR/LEFT	REAR/LEFT	
	FILTER TYPE	1" MERV-13	1" MERV-13	1" MERV-13	1" MERV-13	1" MERV-13	1" MERV-13	1" MERV-13	1" MERV-13	1" MERV-13	1" MERV-13	
ELEC.	ELECTRIC HEAT (KW)	–	6.5	6.5	–	6.5	6.5	–	–	–	–	
	ELECTRIC HEAT FLA	–	31.3 A	31.8	–	31.3	31.3	–	–	–	–	
	TOTAL FLA	3.9 A	36.7	34.1	44.6 A	35.6	35.6	17.3 A	18.1	17.3 A	15.7 A	
	MIN. CRT AMPS	4.73	45.81	42.56	53.4	44.56	44.56	20.83	21.63	20.83	19.08	
	MAX. FUSE SIZE	13	60	50	60	45	45	30.0	35.0	30.0	30.0	
	VOLTAGE/PHASE	208/1	208/1	208/1	208/3	208/1	208/1	208/1	208/1	208/1	208/1	
HEATING MODE	AIR DATA ENT DRY BULB	68	68	68	68	68	68	68	68	68	68	
	AIR DATA LV DRY BULB	92	94.23	90.63	95.15	88	88	87.7	88.27	87.7	93.36	
	WATER DATA TEMP. ENTERING	40	40	40	40	40	40	40	40	40	40	
	WATER DATA TEMP. LEAVING	32	32	33.1	32.94	31.73	31.73	33.6	32.3	32.3	31	
	WATER DATA HEAT ABSORPTION MBH	3.36	38.2	29.85	88.51	25.37	25.37	18.9	22.34	18.02	13.84	
	WATER DATA WATER FLOW RATE (GPM)	2.0	9.81	8.9	15	6.3	6.3	4.82	6.47	4.82	4.46	
	COP	3.13	5.0	5.3	4.4	5.2	5.2	5.3	5.3	5.3	4.7	
	CAPACITY TOTAL MBH	4.6	52.36	40.37	89.41	34.02	34.02	25.9	29.9	24.5	19	
COOLING MODE	AIR DATA ENT DRY BULB	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	
	AIR DATA ENT WET BULB	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	
	AIR DATA LV DRY BULB	50.5	54.33	58.32	59.73	58.92	58.92	58.45	59.04	58.45	59.75	
	AIR DATA LV WET BULB	51.3	56.45	55.94	56.4	56.66	56.66	56.81	56.83	56.81	56.9	
	CAPACITY TOTAL MBH	5.9	61.13	47.96	119.85	43.2	43.2	30.42	36.43	30.42	24.13	
	CAPACITY SENSIBLE MBH	4.4	44.46	37.08	92.07	34.7	34.7	25.34	29.61	25.34	19.09	
	WATER DATA TEMP. ENTERING °F.	70	70	70	70	70	70	70	70	70	70	
	WATER DATA TEMP. LEAVING °F.	83.4	85.57	83.4	90.8	87.0	87.0	85.6	83.85	85.6	83.4	
	WATER DATA WATER FLOW RATE (GPM)	1.3	9.8	8.91	15	6.3	6.3	4.82	6.47	4.82	4.46	
	WATER DATA PRESS. DROP (FT HD)	2.5	5.77	8.06	5.24	7.33	7.33	8.16	7.74	8.16	9.38	
	EER	14.9	14.8	15.5	12.4	15.6	15.6	15.5	15.9	15.5	15.0	
BLOWER/COMPRESSOR QUANTITY		1	1	1	2	1	1	1	1	1	1	
COMPRESSOR RLA (AMPS)												
COMPRESSOR LRA (AMPS)												

NOTES:
1. ALL UNITS FLUID TYPE IS 20% ETHYLENE GLYCOL SOLUTION.
2. PROVIDE DELUXE SOUND ATTENUATION PACKAGE.
3. PROVIDE HIGH STATIC BLOWER MOTOR.
4. PROVIDE CONDENSATE OVER FLOW SENSOR.

FAN SCHEDULE

UNIT NUMBER	TXF-1	TXF-2		GXF-1	GXF2
SERVICE	1ST FLOOR	2ND FL. BATH R.		LAUNDRY ROOM	JANITOR CL.
MANUFACTURER	COOK	COOK		COOK	COOK
MODEL	90SQN12D	GC-124		GC 122	GC 122
C.F.M.	300	75		25	25
STATIC PRESS. (IN WG)	0.5"	0.125"		0.1"	0.1"
VOLTS/PHASE	115/1	115/1		115/1	115/1
WATTS	115	50		25	25
HVI SONES	7.3	1.6	1	.2	.2
NOTES	1	1		1	1

NOTES: 1. PROVIDE BACKDRAFT DAMPER.

LOUVER SCHEDULE

UNIT NUMBER	L-1	L-2	L-3	L-4	L-5		L-7
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK		GREENHECK
MODEL	ESD-435	ESD-435	ESD-435	ESD-435	ESD-435		ESD-435
THICKNESS (IN.)	4	4	4	4	4		4
SIZE (W IN. x H IN.)	30x18	30x18	30x24	30x24	18x18		12x12
FREE AREA (SQ. FT.)	1.59	1.59	2.33	2.33	0.89		0.29
MIN. WATER PENETRATION (FPM)	1151	1151	1151	1151	1151		1151
PRESSURE DROP AT 1000 FPM FREE AREA VELOCITY (IN.)	0.15	0.12	0.15	0.12	0.12		0.035 1

NOTES:
1. PROVIDE BIRD SCREEN FOR ALL LOUVERS.
2. COLOR TO BE SELECTED BY ARCHITECT.
3. LOUVER SUBMITTAL MUST INCLUDE VELOCITY OF BEGINNING POINT OF WATER PENETRATION BASED ON AMCA WATER PENETRATION TEST.

HYDRONIC PUMP SCHEDULE

UNIT NUMBER		GEP-1 & 2	CP-1
SERVICE		WELL FIELD & HEAT PUMPS	HP-2-5 & HP-2-6
MANUFACTURER		B&G	LITTLE GIANT PUMP
MODEL		SERIES 80 SIZE 2x2x 9 1/2B	554542
FLUID DATA	FLUID	20% ETHYLENE GLYCOL	WATER
	TEMPERATURE (F)	100	70
	FLOW RATE (GPM)	69.5	10
	T.D.H. (FT)	77.2	20
	MAX. PRESS. (PSI)	175	–
PUMP DATA	TYPE	IN-LINE	WALL MOUNTED
	SPEED (RPM)	1750	–
	BRAKE H.P.	2.52	–
	MOTOR H.P.	5.0	1/30
MOTOR	TYPE	–	–
	H.P.	5.0	–
	R.P.M	–	–
	VOLTAGE/PHASE	208 / 1Ø	115 / 1Ø
STARTER	TYPE	HOA	–
	NEMA SIZE	1	–
	CONTROL	–	–
	AUX. CONTACTS	2NO / 2NC	–
	VAR. FREQUENCY DRIVE	–	–

NOTES:
1. GEP-1 AND GEP-2 PUMPS SHALL BE FURNISHED WITH B&G TRIPLE-DUTY VALVE AND VSD DRIVE. REFER TO PUMP DETAIL FOR ADDITIONAL INFORMATION.

ENERGY RECOVERY VENTILATOR SCHEDULE

UNIT NUMBER	ERV-1	ERV-2	ERV-3
SERVICE	AFTER SCHOOL ROOM RECEPTION, GALLERY	PRESCHOOL CHILDCARE KITCHEN & LIBRARY	AUDITORIUM
MANUFACTURER	COOK	COOK	COOK
MODEL	ERV-1000	ERV-1000	ERV-1000
C.F.M.	650	750	1050
STATIC PRESS. (IN WG)	0.5	0.5	0.35
VOLTS/PHASE	120/1	120/1	120/1
HP	1	1	1
FILTER NO. SIZE	2/ 10.5 X10.5	2/ 10.5 X10.5	2/ 10.5 X10.5
NOTES			
NOTES:			

DIFFUSER, REGISTER & GRILLE SCHEDULE

KEY	D-1	D-2	R-1	CG-1	HG-1	E-1
MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS
MODEL	TDC	CT-540	350	350R	350R	350R
NECK SIZE	VAR.	VAR.	VAR.	VAR	VAR	VAR
MODULE SIZE	VAR.	VAR.	VAR.	VAR	VAR	VAR
BORDER	TYPE 1	TYPE 5	TYPE 1	TYPE 1	TYPE 1	TYPE 1
FINISH	By Archiect	By Archiect	By Archiect	By Archiect	By Archiect	By Archiect
BLOW PATTERN	4-WAY	1-WAY	2-WAY	–	–	–
OPPOSED BLADE DAMPER	YES	YES	YES	YES	YES	YES
STYLE	CEILING S/A DIFFUSER	CEILING S/A LINEAR BAR	HIGH WALL S/A REGISTER	CEILING WALL R/A GRILLE	HIGH WALL R/A GRILLE	EXHAUST GRILLE

NOTES: ALL MODELS: STEEL BLACK PAN.
ALL MODELS: ACCORDINGLY TO ARCHITECT APPROVAL.

EXPANSION TANK SCHEDULE

UNIT NUMBER	ET-1
QUANTITY	1
MANUFACTURER	B & G
MODEL	D-100V
TYPE	PRESSURIZED
MAX. TEMP. F°	240
MAX. PRESSURE PSI	125
SYSTEM	20% GLYCOL
TANK CAPACITY GAL.	55.7
TANK ACCEPTANCE GAL.	22.6
REMARKS:	

AIR SEPARATOR SCHEDULE

UNIT NUMBER	AS-1
QUANTITY	1
MANUFACTURER	B & G
MODEL	RL-3
CONNECTION SIZE	3"
CAPACITY (GPM)	–
SYSTEM	GEO-EXCHANGE
REMARKS:	

PROPANE UNIT HEATER SCHEDULE

UNIT NUMBER	GUH-1 & 2
MANUFACTURER	PAYNE
MODEL	PG9MAB
UNIT SIZE	024040
GAS CONNECTION SIZE	1/2"
CONCENTRIC VENT DIA	3 1/2"
INPUT BTU/H	40000.0
OUTPUT BTU/H	37000.0

REMARKS:
PROVIDE GAS CONVERSION KIT PROPANE TO NATURAL
PROVIDE CONCENTRIC VET TERMINATION KIT

ARCHITECT

bh+a

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REVISIONS

1 Addendum #1 8-4-10
2
3
4
5
DATE

DRAWING TITLE
Schedules

DRAWING INFORMATION

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