INDOOR UNIT SCHEDULE

System Tag	Tag Reference	Supply CFM	Outdoor Air CFM	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Project Cooling Design Entering Temp DB/WB (°F)	Project Heating Design Entering Temp DB (°F)	Cooling Coil LAT (°F)	Heating Coil LAT (°F)	Make	Model	Type	Voltage / Phase	MCA / MOCP	Max Fan ESP Setting (IN WG)	Notes / Options
System 1	FCU-1-1	540	0	7,500.0	8,500.0	74.2 / 69.0	70.4	55	90	Toshiba	MMD-AP0074SPH2UL	Slim Duct Type	208/230V / 1-phase	0.73 / 15	0.08/0.14/0.2	1, 2, 3
System 1	FCU-1-2	780	225	15,400.0	17,000.0	66.3 / 59.8	63.9	55	90	Toshiba	MMD-AP0154SPH2UL	Slim Duct Type	208/230V / 1-phase	0.88 / 15	0.08/0.14/0.2	1, 2, 3
System 1	FCU-1-3	780	225	15,400.0	17,000.0	66.3 / 59.8	63.9	55	90	Toshiba	MMD-AP0154SPH2UL	Slim Duct Type	208/230V / 1-phase	0.88 / 15	0.08/0.14/0.2	1, 2, 3
System 1	FCU-1-4	1570	335	36,000.0	40,000.0	69.1 / 60.4	66.5	55	90	Toshiba	MMD-AP0364H2UL	High Static Pressure Duct Type	208/230V / 1-phase	2.93 / 15	0.5/0.8/1.1	1, 2, 3
System 1	FCU-1-5	1570	335	36,000.0	40,000.0	69.1 / 60.4	66.5	55	90	Toshiba	MMD-AP0364H2UL	High Static Pressure Duct Type	208/230V / 1-phase	2.93 / 15	0.5/0.8/1.1	1, 2, 3
System 1	FCU-1-6	1570	335	36,000.0	40,000.0	69.1 / 60.4	66.5	55	90	Toshiba	MMD-AP0364H2UL	High Static Pressure Duct Type	208/230V / 1-phase	2.93 / 15	0.5/0.8/1.1	1, 2, 3
System 1	FCU-1-7	1570	335	36,000.0	40,000.0	69.1 / 60.4	66.5	55	90	Toshiba	MMD-AP0364H2UL	High Static Pressure Duct Type	208/230V / 1-phase	2.93 / 15	0.5/0.8/1.1	1, 2, 3
System 1	FCU-1-8	1010	100	30,000.0	34,000.0	74.3 / 62.8	70.1	55	90	Toshiba	MMD-AP0304H2UL	High Static Pressure Duct Type	208/230V / 1-phase	2.93 / 15	0.5/0.8/1.1	1, 2, 3
System 1	FCU-1-9	2440	255	36,000.0	40,000.0	74.0 / 66.4	70.1	55	90	Toshiba	MMD-AP0364H2UL	High Static Pressure Duct Type	208/230V / 1-phase	2.93 / 15	0.5/0.8/1.1	1, 2, 3
System 1	FCU-1-10	580	35	7,500.0	8,500.0	73.0 / 66.4	69.1	55	90	Toshiba	MMD-AP0074SPH2UL	Slim Duct Type	208/230V / 1-phase	0.73 / 15	0.08/0.14/0.2	1, 2, 3
System 1	FCU-1-11	540	35	72,000.0	81,000.0	73.0 / 61.8	69.8	55	90	Toshiba	MMD-AP0726HP-UL	High Static Pressure Duct Type	208/230V / 1-phase	5.7 / 15	0.2/0.6/1.0	1, 2, 3
System 2	FCU-2-2	1395	305	30,000.0	34,000.0	70.0 / 61.1	68.6	55	90	Toshiba	MMD-AP0304BH2UL-1	Medium Static Pressure Duct Type	208/230V / 1-phase	1.8 / 15	0.15/0.25/0.46	1, 2, 3
System 2	FCU-2-3	935	335	15,400.0	17,000.0	66.6 / 59.6	64.3	55	90	Toshiba	MMD-AP0154BH2UL-1	Medium Static Pressure Duct Type	208/230V / 1-phase	1.2 / 15	0.15/0.25/0.46	1, 2, 3
System 2	FCU-2-4	1350	335	30,000.0	34,000.0	69.4 / 60.6	66.3	55	90	Toshiba	MMD-AP0304BH2UL-1	Medium Static Pressure Duct Type	208/230V / 1-phase	1.8 / 15	0.15/0.25/0.46	1, 2, 3
System 2	FCU-2-5	1350	335	30,000.0	34,000.0	69.4 / 60.6	66.3	55	90	Toshiba	MMD-AP0304BH2UL-1	Medium Static Pressure Duct Type	208/230V / 1-phase	1.8 / 15	0.15/0.25/0.46	1, 2, 3
System 2	FCU-2-6	1350	335	30,000.0	34,000.0	69.4 / 60.6	66.3	55	90	Toshiba	MMD-AP0304BH2UL-1	Medium Static Pressure Duct Type	208/230V / 1-phase	1.8 / 15	0.15/0.25/0.46	1, 2, 3
System 2	FCU-2-7	1350	335	30,000.0	34,000.0	69.4 / 60.6	66.3	55	90	Toshiba	MMD-AP0304BH2UL-1	Medium Static Pressure Duct Type	208/230V / 1-phase	1.8 / 15	0.15/0.25/0.46	1, 2, 3
System 2	FCU-2-9	300	50	7,500.0	8,500.0	74.6 / 62.6	70.3	55	90	Toshiba	MMD-AP0074BH2UL-1	Medium Static Pressure Duct Type	208/230V / 1-phase	0.9 / 15	0.15/0.25/0.46	1, 2, 3
System 2	FCU-2-11	815	255	15,400.0	17,000.0	66.7 / 59.8	64.4	55	90	Toshiba	MMD-AP0154BH2UL-1	Medium Static Pressure Duct Type	208/230V / 1-phase	1.2 / 15	0.15/0.25/0.46	1, 2, 3
System 2	FCU-2-12	815	300	15,400.0	17,000.0	66.7 / 59.8	64.4	55	90	Toshiba	MMD-AP0154BH2UL-1	Medium Static Pressure Duct Type	208/230V / 1-phase	1.2 / 15	0.15/0.25/0.46	1, 2, 3
System 2	FCU-2-1	2300	330	48,000.0	54,000.0	71.8 / 61.2	68.6	55	90	Toshiba	MMD-AP0484H2UL	High Static Pressure Duct Type	208/230V / 1-phase	3.65 / 15	0.1/0.5/0.8	1, 2, 3
System 2	FCU-2-10	1450	255	48,000.0	54,000.0	74.8 / 62.4	71.3	55	90	Toshiba	MMD-AP0484H2UL	High Static Pressure Duct Type	208/230V / 1-phase	3.65 / 15	0.1/0.5/0.8	1, 2, 3
System 2	FCU-2-10	1450	255	96,000.0	108,000.0	74.8 / 62.4	71.3	55	90	Toshiba	MMD-AP0966HP-UL	High Static Pressure Duct Type	208/230V / 1-phase	7.4 / 15	0.2/0.6/1.0	1, 2, 3

Notes & Options:
1 Nominal cooling capacities are based on indoor air temperature of 80°F DB / 67°F WB, outdoor air temperature of 95°F (DB)
2 Nominal heating capacities are based on indoor air temperature of 70°F DB, outdoor air temperature of 47°F DB / 43°F WB
3 LATs estimated using formula for sensible capacity = (1.08 Btu/(hr cfm °F)) x cfm x deltaT

OUTSIDE AIR CALCULATIONS (BASED ON TABLE 402.1, 2012 UMC)

BUILDING SPACE	OCCUPANCY CATEGORY	SQ. FT.	NUMBER OF PEOPLE	CFM/SF	CFM/ PERSON	TOTAL CFM/ SF	TOTAL CFM/ PERSON	TOTAL SPACE O/A CFM
Office	Office	119	1	0.06	5	7.14	5	12.14
Director	Office	114	1	0.06	5	6.84	5	11.84
Hall	Corridor	1439	0	0.06	0	86.34	0	86.34
Classroom 105	Classrooms (age 5-8)	695	25	0.12	10	83.4	250	333.4
Classroom 106	Classrooms (age 5-8)	680	25	0.12	10	81.6	250	331.6
Classroom 107	Classrooms (age 5-8)	685	25	0.12	10	82.2	250	332.2
Classroom 108	Classrooms (age 5-8)	688	25	0.12	10	82.56	250	332.56
Classroom 110	Classrooms (age 5-8)	454	17	0.12	10	54.48	170	224.48
Classroom 111	Classrooms (age 5-8)	454	17	0.12	10	54.48	170	224.48
Kitchen 114	Kitchen	152	2	0.12	7.5	18.24	15	33.24
Classroom 201	Classrooms (age 5-8)	682	25	0.12	10	81.84	250	331.84
Classroom 202	Classrooms (age 5-8)	630	23	0.12	10	75.6	230	305.6
Classroom 203	Classrooms (age 5-8)	630	23	0.12	10	75.6	230	305.6
Classroom 204	Classrooms (age 5-8)	630	23	0.12	10	75.6	230	305.6
Classroom 205	Classrooms (age 5-8)	630	23	0.12	10	75.6	230	305.6
Classroom 206	Classrooms (age 5-8)	630	23	0.12	10	75.6	230	305.6
Classroom 207	Classrooms (age 5-8)	630	23	0.12	10	75.6	230	305.6
Hall 216	Corridor	2219	0	0.06	0	133.14	0	133.14
Activity 305	Classrooms (age 5-8)	905	50	0.12	10	108.6	500	608.6
Office	Office	858	2	0.06	5	51.48	10	61.48
Office	Office	858	2	0.06	5	51.48	10	61.48
Office	Office	858	2	0.06	5	51.48	10	61.48
Office	Office	858	2	0.06	5	51.48	10	61.48
Office	Office	858	2	0.06	5	51.48	10	61.48
Hall	Corridor	1438	0	0.06	0	86.28	0	86.28
Kitchen	Kitchen	152	0	0.12	7.5	18.24	0	18.24
Lobby 301	Corridor	458	0	0.06	0	27.48	0	27.48
				TOTAL OUTSIDE AIR REQUIRED				**5269**
				TOTAL OUTSIDE AIR SUPPLIED				**6245**

VRF HEAT RECOVERY FS UNITS

System Tag	Make	Model Number	Type (Multi / Single)	Number of Ports	Voltage / Phase	MCA	Notes / Options
System 1	Toshiba	RBM-Y0611F6PUL	Multi	6	208-230V/1-phase	1	1, 2, 3, 4
System 1	Toshiba	RBM-Y0611F6PUL	Multi	6	208-230V/1-phase	1	1, 2, 3, 4
System 1	Toshiba	RBM-Y0963FUL	Single	1	208-230V/1-phase	1	1, 2, 3, 4
System 2	Toshiba	RBM-Y0611F6PUL	Multi	6	208-230V/1-phase	1	1, 2, 3, 4
System 2	Toshiba	RBM-Y0611F6PUL	Multi	6	208-230V/1-phase	1	1, 2, 3, 4
System 2	Toshiba	RBM-Y0963FUL	Single	1	208-230V/1-phase	1	1, 2, 3, 4

Notes & Options:
1 Single-Port Flow Selectors are powered from Indoor Units.
2 Standard Single-Port Flow Selectors (i.e. not "Long" models) come standard with power and communication wires for connection to Indoor Unit.
3 Multi-Port Flow Selectors require dedicated power supply.
4 Each port of Multi-Port Flow Selectors shall have a maximum capacity of 61 kBTU/hr.

OUTDOOR CONDENSER UNIT SCHEDULE

Tag Reference	Make	Model Number	Modules	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Corrected Cooling Total Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	System Connected Capacity	Sound Pressure (dBA)	Project Design Cooling Outdoor Temp DB (°F)	Project Design Heating Outdoor Temp WB (°F)	Voltage / Phase	MCA	RFS	Cooling Efficiency IEER/EER	Notes / Options
CU-1	Toshiba	MMY-AP288S6FT6P-UL	168 + 120	288,000.0	324,000.0	261,006.1	215,337.7	113.8%	68.5 / 69	98.0	20	460/3/60	29.7 + 22	35 + 25	22.25 / 10.45	1, 2, 3, 4, 5
CU-2	Toshiba	MMY-AP3366FT6P-UL	120 + 120 + 96	336,000.0	378,000.0	304,509.4	251,039.2	117.8%	67.5 / 68.5	98.0	20	460/3/60	22 + 22 + 17	25 + 25 + 20	23.55 / 10.85	1, 2, 3, 4, 5

Notes & Options:
1 Nominal cooling capacities are based on indoor air temperature of 80°F DB / 67°F WB, outdoor air temperature of 95°F (DB)
2 Nominal heating capacities are based on indoor air temperature of 70°F DB, outdoor air temperature of 47°F DB / 43°F WB
3 VRF Efficiency values for EER, IEER, and COP are for mixed ducted and non-ducted indoor units based on AHRI 1230 test method.
4 Ductless and Single-Phase VRF Heat Pump Efficiency values for EER, SEER, and HSPF are for mixed ducted and non-ducted indoor units based on AHRI 210/240 test method.

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ISSUES AND REVISIONS

NO	DATE	DESCRIPTION
A	07-22-2019	ISSUE FOR PERMIT
B	08-16-2019	ISSUE FOR BID
1	08-26-2019	ADDENDUM 2

STATE OF TEXAS
DAVIA ANN GERNAND
109903
LICENSED
PROFESSIONAL ENGINEER
26 AUG 2019

GH SCHOOL
4724 N MAIN STREET

SHEET TITLE
UNIT SCHEDULE

SHEET NUMBER
M102

PROJECT # 19.02

Architect shall own the overall conceptual design prepared and developed for the project on the intangible exclusive rights or copyright therein.

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