LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
4a		GENERAL CLASSROOMS AND LABS																					
4a.1	1	Computer Laboratory	1150	1150	30	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	10.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
4a.2	1	Distance Learning Lab/Group Meeting	1500	1500	30	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	10.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	30	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
		SUBTOTAL General Classrooms and Labs		2,650																			
5a		HEALTH & HUMAN SERVICES																					
5a.1a	2	LPN Classrooms I & II	900	1800	52	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.1b	1	LPN Skills Lab	1150	1150	26	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	30	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.1c	1	LPN Program Offices (4 stations)	400	400	4	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.1d	1	Skills Lab Storage	150	150	N/A	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	1CFM/ SF	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.1e	1	LPN Program Equipment Storage	150	150	N/A	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	1 CFM/ SF	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.1f	1	LPN Program Handicap Toilet	80	80	N/A	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	2CFM/ SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.1g	3	Healthcare/Laboratory Technician Classroom	900	2700	30	HP-HRU-X	VAV GSHP	3	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	---	---	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.2a	1	Healthcare/Lab Tech Program Lab	1150	1150	26	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	PER EQUIP. SPECS.	N	HOOD EXH. SYSTEM	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.2b	1	Lab Tech Office	120	120	1	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.2c	1	Handicap Toilet	80	80	N/A	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	2 CFM/ SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.2d	1	Lab Tech Storage	150	150	N/A	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	1 CFM/ SF	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE																							
GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
5a.3a	1	Administration of Justice Classroom/Lab	1150	1150	26	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.3b	1	AoJ Program Storage	150	150	N/A	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	1 CFM/ SF	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.4a	1	Physical Training Room Shared	150	150	2	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	10.0	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.4b	1	AoJ Forensic Lab	1150	1150	30	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	10.0	Y	Y	Y	REFER TO BOD	PER EQUIP. SPECS.	Y	SEPARATE HOOD EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.5a	1	Firefighter 1/EMT Classroom/Lab	750	750	26	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	4.0	Y	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.5b	1	Simulated Training Area	600	600	18	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	PER EQUIP. SPECS.	N	APPLIANCE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.5c	1	Firefighter Program Storage	150	150	N/A	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	1 CFM/ SF	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.5d	1	Vehicle Shelter	1000	1000	26	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	1.5 CFM/SF	Y	Y	Y	REFER TO BOD	PER EQUIP. SPECS.	N	SPECIAL HOSE EXH. RETRACT	40	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.5e	1	AoJ Program Storage	200	200	2	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.5f	2	AoJ/Firefighter Office Suite	200	200	2	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.5g	2	Locker/Toilets/Shower	550	1100	20	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	2 CFM/ SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.5h	1	AoJ Firefighter Laundry	100	100	N/A	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	15.0	Y	Y	Y	REFER TO BOD	PER EQUIP. SPECS.	Y	DRYER EXHAUST & MUA	40	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.6a	2	Cosmetology/Nail Design Laboratory	2400	4800	52	HP-HRU-X	VAV GSHP	4	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	1.5 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.6b	1	Cosmetology/Nail Classroom	600	600	26	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.6c	2	Dispensary	400	800	6	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
5a.6d	2	Cosmetology/Nail Design Lockers/Toilets	400	800	6	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.6e	2	Cosmetology/Nail Design Office Suite	120	240	2	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.6f	1	Cosmetology/Nail Design Reception	300	300	3	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5a.6g	1	Cosmetology/Nail Design Laundry	100	100	2	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	15.0	Y	Y	Y	REFER TO BOD	PER EQUIP. SPECS.	Y	DRYER EXHAUST & MUA	40	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
		SUBTOTAL Health and Human Services		22,270	140																		
5b		HOSPITALITY/TOURISM																					
5b.1a	1	Culinary Arts Laboratory (Kitchen)	1150	1150	26	AHU-X	VAV HW/ CHW	2	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	2 CFM/SF	N	TEMPERED MUA CANOPY HOOD	40	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5b.1b	2	Walk-In Freezer/Refrigerator	150	300	N/A	---	---	---	---	---	---	---	---	---	SEPARATE REFRIG. SYST.	---	---	---	---	---	Y	---	---
5b.1c	1	Dry Food Storage	300	300	N/A	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5b.1d	1	Culinary Arts Office	120	120	1	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5b.1e	1	Kitchen Custodial	50	50	N/A	---	---	---	---	---	---	---	---	---	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	40	ARI 260	---	---	---
5b.1f	1	Electrical Room	50	50	N/A	AHU-X	VAV HW/ CHW	1	VAV	N/A	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	40	ARI 260	Y	---	---
5b.1g	1	Laundry Room	100	100	2	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	15.0	Y	Y	Y	REFER TO BOD	PER EQUIP. SPECS.	N	DRYER EXHAUST & MUA	40	ARI 260	Y	---	---

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
5b.1h	2	Culinary Arts Lockers/Toilets	300	300	4	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5b.1i	1	Culinary Arts Classroom	900	900	26	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5b.1j	1	Culinary Arts Dining Area (Restaurant)	1150	1150	52	AHU-X	VAV HW/ CHW	2	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5b.1k	2	Restaurant Rest Rooms	80	160	N/A	AHU-X	VAV HW/ CHW	2	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
		SUBTOTAL HOSPITALITY/TOURISM		4,580																			
5c		INFORMATION TECHNOLOGY																					
5c.1a	2	CISCO Laboratory/Classroom	1150	2300	20	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5c.1b	1	CISCO Networking Racks/Equipment Trainer	400	400	2	HP-HRU-X	VAV GSHP	1	VAV	N/A	10.0	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	40	ARI 260	Y	---	---
5c.1c	1	CISCO Storage	120	120	1	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5c.1e	2	CISCO Locker/Toilet Rooms	300	600	N/A	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5c.2a	1	Computer Systems Technology Laboratory/Classroom	1150	1150	26	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	10.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5c.2b	1	CST Textbook/Software Storage	150	150	1	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5c.2c	1	CST Hardware Storage	300	300	N/A	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	---	---
		SUBTOTAL INFORMATION TECHNOLOGY		5,020																			

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
5d		ENGINEERING & CONSTRUCTION																					
5d.1a	1	HVAC & Electrical Lab	3200	3200	26	AHU-X	VAV HW/ CHW	3	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5d.1b	1	HVAC & Electrical Classroom	600	600	26	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5d.1c	1	HVAC & Electrical Tool Room	150	150	1	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5d.1d	2	HVAC Electrical(Panelboard) Room	300	600	N/A	AHU-X	VAV HW/ CHW	1	VAV	N/A	8.0	Y	Y	Y	REFER TO BOD	10.0	Y	SEPARATE EXHAUST	40	ARI 260	Y	---	---
5d.2a	1	Building Construction Lab	2400	2400	52	AHU-X	VAV HW/ CHW	2	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	8.0	Y	DESIGNED FOR SPECIAL EQUIP.	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5d.2b	1	Building Construction Classroom	800	800	40	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5d.2c	1	Building Construction Tool Room	200	200	2	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5d.2d	1	Finishing Room	200	200	2	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	8 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5d.2e	1	Paints and Stains Storage	100	100	26	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	10.0	Y	Y	Y	REFER TO BOD	4 CFM/SF		SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5d.2f	1	Lumber Storage	300	300	N/A	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
5d.3a	1	Masonry Lab	3000	3000	52	AHU-X	VAV HW/ CHW	3	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	8.0	N	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5d.3b	1	Masonry Classroom	600	600	26	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	---	---
5d.3c	1	Masonry Tool Room	150	150	1	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5d.4a	1	Welding Lab/Classroom	3600	3600	52	AHU-X	VAV HW/ CHW	3	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	8.0	N	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5d.4b	1	Welding Tool Room	300	300	N/A	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5d.4c	1	Welding Clean Storage	300	300	N/A	AHU-X	VAV HW/ CHW	2	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5d.4d	1	Welding Electrical Room	300	300	N/A	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5d.5a	1	Computer Integrated Engineering and Design Classroom and Lab	2000	2000	26	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	10.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5d.5b	1	Computer Integrated Engineering and Design Office	120	120	1	HP-HRU-X	VAV GSHP	1	VAV	VAV	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5d.5c	1	CEID Hardware Storage	250	250	N/A	HP-HRU-X	VAV GSHP	1	VAV	N/A	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5d.6a	2	HVAC Welding Lockers/Toilets/Showers	300	600	8	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5d.6b	1	Engineering and Construction Office Suite	300	300	6	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5d.6c	2	Buidling Construction/Masonry Lockers/Toilets/Showers	300	600	8	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
		SUBTOTAL ENGINEERING & CONSTRUCTION		20,670																			
5e		TRANSPORTATION																					
5e.1a	1	Auto Servicing Technology Lab	7500	7500	52	AHU-X	VAV HW/ CHW	4	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	1.5 CFM/SF	Y	SPECIAL EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5e.1b	1	Auto Servicing Technology Classroom	1200	1200	26	AHU-X	VAV HW/ CHW	2	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5e.1c	1	Auto Servicing Technology Parts Storage	200	200	N/A	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5e.1d	1	AST Storage	500	500	4	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5e.1e	1	AST Tool Storage	150	150	N/A	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5e.1f	1	AST Shop Manual Library	150	150	1	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5e.2a	1	Collision Repair Technology Lab	7500	7500	52	AHU-X	VAV HW/ CHW	4	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	1.5 CFM/SF	Y	SPECIAL EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5e.2b	1	Collision Repair Technology Classroom	600	600	26	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5e.2c	1	CRT Reference Room/Teaching Aides	200	200	2	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SPECIAL EXHAUST	35	ARI 260	Y	---	---
5e.2d	1	Equipment Storage	150	150	1	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	---	---

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
5e.2e	1	CRT Paint and Equipment Storage/Accudraft Mix Room	800	800	10	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	10.0	Y	Y	Y	REFER TO BOD	10.0	N	SPECIAL EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5e.2f	1	Detailing and Wash Bay/Detailing Materials Storage	450	450	N/A	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5e.2g	1	Collision Repair Tool Storage	150	150	N/A	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5e.3a	1	AST/Collision Repair Technology Instructor Office Suite	100	100	2	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5e.3b	2	AST/Collision Repair Program Shared/Lockers/Showers/Toilet	300	600	8	AHU-X	VAV HW/ CHW	2	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
		SUBTOTAL TRANSPORTATION		20,250																			
5f		COMMUNICATIONS																					
5f.1a	1	Graphic Communications/Production Lab	2700	2700	26	HP-HRU-X	VAV GSHP	3	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	30	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5f.1b	1	Production Printing Office	400	400	3	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5f.1c	1	Loading Area	800	800	6	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	---	---
5f.1c.1	1	Paper Storage	600	600	N/A	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	4.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	---	---
5f.1d	1	Materials Storage	200	200	N/A	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5f.1e	1	Graphic Communications Lab/Classroom	1150	1150	26	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5f.1f	1	Graphic Communications Program Storage	500	500	N/A	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
5f.1g	1	Graphic Communications Ink/Supply Storage	200	200	N/A	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	10.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5f.1h	1	Graphic Communications Plate Room	200	200	2	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5f.1i	1	Graphic Communications Instructor Office	200	200	2	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5f.2a	1	Television Production Studio/Classroom	2600	2600	26	HP-HRU-X	VAV GSHP	3	VAV	VAV RH	10.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	30	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5f.2b	1	Television Production Control/Editing Room	900	900	26	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	10.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	30	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5f.2c	1	Television Production Set Storage	600	600	N/A	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5f.2d	1	Television Production Video Equipment Storage	300	300	N/A	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5f.2e	2	Audio Rooms	100	200	4	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	---	---	---	30	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5f.2f	1	Television Production Classroom	600	600	26	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	---	---	---	30	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5f.3a	1	Computer Digital and Animation Laboratory	1500	1500	26	HP-HRU-X	VAV GSHP	2	VAV	VAV RH	10.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	30	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5f.3b	1	Computer and Digital Animation Storage	120	120	2	HP-HRU-X	VAV GSHP	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.08	REFER TO SHEET M7.08
5f/4	1	Television Production Office & Computer Digital Annimation Office Suite	300	300																			
		SUBTOTAL COMMUNICATIONS		14,070																			
5g		ENVIRONMENTAL SCIENCES & TECHNOLOGY																					
5g.1a	1	Retail Greenhouse	18,750	18,750	52	GSHP-X	CV GSHP	6	DX CLG	DX HTG	4.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.09	REFER TO SHEET M7.09

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
5g.1b	3	Production Greenhouses	3,750	11,250	78	GSHP-X	CV GSHP	4	DX CLG	DX HTG	4.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.09	REFER TO SHEET M7.09
5g.1c	1	Holding/Stock Plant Greenhouse	1500	1500	26	GSHP-X	CV GSHP	2	DX CLG	DX HTG	4.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.09	REFER TO SHEET M7.09
5g.1d	2	Environmental Program Classrooms	600	1200	52	GSHP-X	CV GSHP	2	DX CLG	DX HTG	8.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.09	REFER TO SHEET M7.09
5g.1e	2	Environmental Program Offices	120	240	2	GSHP-X	CV GSHP	1	DX CLG	DX HTG	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.09	REFER TO SHEET M7.09
5g.1f	1	Floral Production Lab	1200	1200	26	GSHP-X	CV GSHP	1	DX CLG	DX HTG	8.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	30	ARI 260	Y	REFER TO SHEET M7.09	REFER TO SHEET M7.09
5g.1g	1	Floral Production Storage	225	225	12	GSHP-X	CV GSHP	1	DX CLG	DX HTG	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5g.1h	1	Floral Production Walk-In Cooler	500	500	N/A	GSHP-X	CV GSHP	1	DX CLG	DX HTG	---	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	---	---
5g.1i	1	Potting Area	2500	2500	26	GSHP-X	CV GSHP	2	DX CLG	DX HTG	8.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.09	REFER TO SHEET M7.09
5g.1j	1	Potting Area Storage	900	900	N/A	GSHP-X	CV GSHP	1	DX CLG	DX HTG	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5g.1k	1	Pesticide Storage	400	400	N/A	GSHP-X	CV GSHP	1	DX CLG	DX HTG	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5g.1l	1	Lath Area	2400	2400	N/A	GSHP-X	CV GSHP	2	DX CLG	DX HTG	4.0	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	40	ARI 260	Y	---	---
5g.1m	1	Outdoor Retail Nursery Area	2400	2400	N/A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5g.1n	1	Heavy Equipment Garage Storage	2400	2400	N/A	AHU-X	VAV HW/ CHW	2	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	1.5 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5g,1o	1	Small Engines Repair & Maintenance/Turf Lab	2400	2400	20	AHU-X	CV GSHP	1	DX CLG	DX HTG	8.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
5g.1p	1	Small Engines Classroom	900	900	20	GSHP-X	CV GSHP	1	DX CLG	DX HTG	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5g.1q	1	Small Engines Storage	150	150	N/A	GSHP-X	CV GSHP	1	DX CLG	DX HTG	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
5g.1r	1	Small Engines Tool Room	150	150	N/A	GSHP-X	CV GSHP	1	DX CLG	DX HTG	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
5g.1s	2	Environmental Program Lockers/Toilets/Showers	600	1200	10	GSHP-X	CV GSHP	2	DX CLG	DX HTG	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
		SUBTOTAL ENVIRONMENTAL SCIENCES & TECHNOLOGY		50,665																			
6a		ADMINISTRATION																					
6a.1a	1	General Office/Waiting	800	800	6	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6a.1b	1	Principal's Office	300	300	3	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	30	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6a.1c	1	Asst. Principal's Office	300	300	3	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	30	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6a.1d	1	Records Vault	150	150	1	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6a.1e	1	Attendance	80	80	1	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	---	---
6a.1f	1	Paper Storage	100	100	1	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	---	---
6a.1g	1	Admin. Storage	200	200	N/A	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6a.1w	1	Bookkeepers Office	120	120	1	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6a.2a	1	Clinic Waiting	50	50	1	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
6a.2b	1	Clinic Examination	200	200	1	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
6a.2c	2	Clinic Toilets	65	130	1	AHU-X	VAV HW/ CHW	2	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
6a.2d	2	Clinic Rest Areas	120	120	1	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	---	---
6a.3	1	Conference/Coffee Room	250	250	8	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	30	ARI 260	Y	---	---
6a.4a	1	Guidance Waiting	100	100	1	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6a.4b	2	Counselor Office	120	240	2	AHU-X	VAV HW/ CHW	2	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	30	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6a.4c	1	Special Ed/ESL Office	320	320	3	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	30	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6a.4d	1	Coordinator Office	300	300	3	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	30	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6a.5a	1	Mail/Copy/Faculty Work Room	400	400	3	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
6a.5b	2	Faculty Toilets	65	130	1	AHU-X	VAV HW/ CHW	2	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
6a.5c	1	Faculty Break Room	200	200	1	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6a.6a	2	Security Specialists	100	200	2	AHU-X	VAV HW/ CHW	2	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	30	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
6a.6b	1	Data/Comm Head End	80	80	N/A	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	4 CFM/SF	Y	Y	Y	REFER TO BOD	4 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
6a.6c	1	IT Tech and Servers	100	100	1	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	4 CFM/SF	Y	Y	Y	REFER TO BOD	4 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
		SUBTOTAL ADMINISTRATION		4,870																			
6b		CUSTODIAL																					
6b.1a	1	Custodial Office	200	200	2	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6b.1b	1	Custodial Toilet/Shower	80	80	1	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
6b.1c	1	Custodial Supplies Storage	250	250	N/A	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	1 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
6b.1d	6	Janitors' Closets	40	240	N/A	AHU-X	VAV HW/ CHW	---	VAV	VAV RH	---	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	40	ARI 260	Y	---	---
		SUBTOTAL CUSTODIAL		770																			
6c		MULTIPURPOSE/COMMONS/FOOD SERVICE																					
6c.1a	1	Multipurpose Room	6000	6000	600	AHU-X	SZVAV HW/ CHW	1	SZ VAV	SZ VAV RH	8.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	30	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6c.1b	1	Furniture Storage	750	750	N/A	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	---	---

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
6c.1d	1	Kitchen/Food Preparation	3000	3000	20	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	8.0	Y	KITCHEN HOOD EXH.	40	ARI 260	Y	---	---
		SUBTOTAL MULTIPURPOSE/COMMONS/FOOD SERVICE		9,750																			
6d		VOCATIONAL ASSESSMENT																					
6d.1a	1	Phase 1 Assessment	600	600	26	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	---	---	---	30	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6d.1b	1	Phase 2 Assessment	2480	2480	52	AHU-X	VAV HW/ CHW	4	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	---	---	---	30	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6d.1c	1	Vocational Assessment Office	240	240	2	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	30	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6d.1d	1	Vocational Assessment Storage	150	300	2	AHU-X	VAV HW/ CHW	2	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	---	---
6d.1e	1	Handicap Toilet	80	80	N/A	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
6d.1f	1	Instructor Toilet	50	50	N/A	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
		SUBTOTAL VOCATIONAL ASSESSMENT		3,750																			
6e		TEXTBOOK STORAGE																					
6e.1a		Textbook Storage/Copier	300	300	2	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	10.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
		SUBTOTAL		300																			

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
6f		STUDENT STORAGE																					
6f.1	1	AV Storage	300	300	N/A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6f.2	1	Adult ed Storage/Copier	300	300	2	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	10.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6f.3	1	Student Lockers (800)	1000	1000	50	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	10.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
		SUBTOTAL		1,600																			
6g		PUBLIC USE																					
6g.1	3	Public Toilets Women	400	1200	N/A	AHU-X	VAV HW/ CHW	3	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
6g.2	3	Public Toilets Men	400	1200	N/A	AHU-X	VAV HW/ CHW	3	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	35	ARI 260	Y	---	---
6g.3	2	Vending/Lounge	400	800	40	AHU-X	VAV HW/ CHW	2	VAV	VAV RH	8.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	35	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
		SUBTOTAL PUBLIC USE		3,200																			
6h		CAREER RESOURCE/LIBRARY/MEDIA CENTER																					
6h.1a	1	Career Resource Center	250	250	2	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	30	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6h.1b	1	Library	800	800	20	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	30	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6h.1c	1	AV Storage	200	200	N/A	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	1 CFM/SF	Y	Y	Y	REFER TO BOD	---	---	---	35	ARI 260	Y	---	---

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
6h.1d	1	Library Office/Work Room	200	200	2	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	10.0	Y	Y	Y	REFER TO BOD	4.0	Y	SEPARATE EXHAUST	30	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6h.1e	1	Guidance Department	250	250	2	AHU-X	VAV HW/ CHW	1	VAV	VAV RH	6.0	Y	Y	Y	REFER TO BOD	---	---	---	30	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
6h.1f	1	General Computer Lab	1200	1200	30	AHU-X	SZVAV HW/ CHW	2	VAV	SZ VAV RH	10.0	Y	Y	Y	REFER TO BOD	6.0	Y	SEPARATE EXHAUST	30	ARI 260	Y	REFER TO SHEET M7.07	REFER TO SHEET M7.07
		SUBTOTAL CAREER RESOURCE/LIBRARY		2,900																			
7b		MECHANICAL ROOM																					
7b.1	1	Mechanical room	3000	3000	4	AHU-X	SZVAV HW/ CHW	1	SZ VAV	SZ VAV HW	8.0	Y	Y	Y	REFER TO BOD	8.0	Y	SEPARATE EXHAUST	85dBA	ARI 260	Y	---	---
		SUBTOTAL MECHANICAL ROOM		3,000																			
7c		ELECTRICAL ROOM																					
7c.1	1	Electrical Switchgear	1000	1000	2	AHU-X	SZVAV HW/ CHW	1	VAV	VAV RH	2 CFM/SF	Y	Y	Y	REFER TO BOD	2 CFM/SF	Y	SEPARATE EXHAUST	40	ARI 260	Y	---	---
7c.2	4	Electrical Rooms	50	200	1	AHU-X	SZVAV HW/ CHW	4	VAV	VAV RH	4 CFM/SF	Y	Y	Y	REFER TO BOD	4 CFM/SF	Y	SEPARATE EXHAUST	40	ARI 260	Y	---	---
		SUBTOTAL ELECTRICAL ROOM		1,200																			
7d		TELEPHONE/DATA EQUIPMENT ROOMS																					
7d.1	1	Telephone Equipment	300	300	1	AHU-X	SZVAV HW/ CHW	1	VAV	VAV RH	4 CFM/SF	Y	Y	Y	REFER TO BOD	4 CFM/SF	Y	SEPARATE EXHAUST	40	ARI 260	Y	---	---

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
MECHANICAL
MONROE ADVANCED TECHNOLOGY ACADEMY

MECHANICAL SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			HVAC AIR DISTRIBUTION (C)										EXHAUST AIR (D)			ACOUSTICS (E)		BAS SENSORS (F)		
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	IMC DESIGN OCCUPANCY	SYSTEM	TYPE	QTY.	CLG	HTG	AIR FLOW (AC/hr)	DUCTED SA	DUCTED RA	BAS	REMARKS	FLOW RATE (AC/1 hr)	BAS	REMARKS	NC LEVEL	REMARKS	TEMP (F)	HUMIDITY (%RH)	CO2 (PPM)
7d.2	8	Data Closets	150	1200	8	AHU-X	SZVAV HW/ CHW	8	VAV	VAV RH	4 CFM/SF	Y	Y	Y	REFER TO BOD	4 CFM/SF	Y	SEPARATE EXHAUST	40	ARI 260	Y	---	---
		SUBTOTAL		1,500																			
		TOTAL NET S.F.		173,015																			
	*	Add 27 % for circulation, wall thickness and other allowable factors.		46,714																			
		TOTAL GROSS S.F.		219,729																			

* See Architectural package for latest building function areas and square footage for each space.

END OF FACILITY LIST - EDUCATION SPECIFICATION NO. 3