SCHOOL DISTRICT OF MANAWA BUILDINGS & GROUNDS COMMITTEE MEETING AGENDA

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(US) +1 929-236-4066 PIN: 291 613 982#

Date: November 9, 2021 Time: 4:30 p.m.

Hybrid Meeting Format (In-person Meeting for Board of Education at MES Board Room, 800 Beech Street & Virtual Components)

Board Committee Members: R. Johnson (C), Griffin, Hollman

In Attendance:	
Timer:	Recorder:

- 1. Major Repair Updates (Information)
 - a. Irrigation Pump Replacement
 - b. MS/HS Kitchen Dishwasher
 - c. MES Boiler Control Issues
 - d. Other
 - 2. Long-term Maintenance Plan Pfefferle as Presented [Operation Efficiencies] (Information / Action)
 - 3. Custodial/Maintenance Plan Pfefferle as Presented (Information / Action)
 - 4. Brainstorm and Prioritize 2022-23 Fiscal Year Projects as Presented (Information /Action)
 - 5. Discuss Options for Filling Custodial Position (Information)
 - a. Review Rate of Pay Finance Committee
 - b. Buyer's Guide (free online), Shopper's Guide, and Classified Ad (\$30 a week)
 - c. Wisconsin Job Center
 - d. Temporary Use of a Cleaning Service
 - e. Indeed Free Service (Could Choose Paid Subscription)
 - f. District Website
 - g. WECAN
 - h. Other
 - 6. Consider TruGreen 2022 Season Proposal (Information / Action)
 - 7. Continue Review of Key Performance Indicators (Information / Action)
 - 8. Update on Manawa Athletic Booster Club Fundraising Effort (Information)
 - 9. Buildings & Grounds Committee Planning Guide (Information)
 - 10. Set Next Meeting Date:

11. Next Meeting Items:

- a. January Lawn Care Weed & Feed Request for Proposal
- b. January Schedule reseeding of new green spaces
- c. School Forest New Management Plan

d.

12. Adjourn

Manawa Schools

CAPITAL PLANNING - Middle/High School	١c
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	CAPITAL PLANNING - Middle/High School										
BUDGET ITEM:	NOTES	EQUIPMENT AGE (Year New)	LIFE EXPECTANCY (Years)	BUDGET ESTIMATE (Today's Dollars)	Scheduled Completed Date (Year)	Total Budget for Fiscal Year	Fiscal Year	APPROVED DATE			
1 ITW Switchgear in middle school area	Appears original - ITW no longer in production.	Original	30	\$ 15,000.00							
2 Sorgel Transformer	B0007	Unknown	30	\$ 6,000.00							
3 Exhaust Fans [Cook - Various Models]	Various locations	1996?	20	\$ 12,000.00	2016						
4 Water Heater [AO Smith FCG 75 300]	Room 1022	2011	10-15	\$ 3,000.00	2026						
4 AC Condenser [Trane TTA240K400BA]	West Air Handler Room	2014	15-20	\$ 10,100.00	2034						
5 AC Condenser [Trane RAUJC304BC03]	East Air Handler Room	2014	15-20	\$ 16,690.00	2034						
6 AC Condenser [Trane RAUJC304BC03]	East Air Handler Room	2014	15-20	\$ 16,690.00	2034						
7 ERV-1		2014	15-20	\$ 45,000.00	2034						
8 ERV-2		2014	15-20	\$ 45,000.00	2034						
9 ERV-3		2014	15-20	\$ 42,000.00	2034						
10 ERV-4		2014	15-20	\$ 45,000.00	2034						
11 Water Heater [Bradford White EF100250E3N2]	Room B0019	2019	15-20	\$ 15,000.00	2039						
12 Water Heater [Bradford White EF100250E3N2]	Room B0019	2019	15-20	\$ 15,000.00	2039						
13 Water Heater [Bradford White EF100250E3N2]	Room B0019	2019	15-20	\$ 15,000.00	2039						
14 RTU-1 [Trane YHD240F4RHA]		2014	20-25	\$ 24,000.00	2039						
15 RTU-2 [Trane YHD240F4RHA]		2014	20-25	\$ 24,000.00	2039						
16 RTU-3 [Trane YHD240F4RHA]		2014	20-25	\$ 24,000.00	2039						
17 RTU-4 [Trane YHC120E4RHA0Z]		2014	20-25	\$ 12,000.00	2039						
18 RTU-5 [Trane YHD240F4RHA]		2014	20-25	\$ 24,000.00	2039						
19 RTU-6 [Trane YHC120E4RHA0Z]		2014	20-25	\$ 12,000.00	2039						
20 RTU-7 [Trane YHD180F4RHA03D]		2014	20-25	\$ 18,000.00	2039						
21 RTU-8 [Trane YHD150F4RVB04D]			20-25	\$ 15,000.00	2039						
22 RTU-9 [Trane YHD150F4RVB04D]			20-25	\$ 15,000.00	2039						
23 RTU-10 [Trane YHD180F4RHA03D]		 	20-25	\$ 18,000.00	2039						
24 RTU-11 [Trane YHD150F4RVB04D]			20-25	\$ 15,000.00	2039						
25 RTU-12 [Trane YHC120E4RHA0Z]			20-25	\$ 12,000.00	2039						
26 RTU-13 [Trane YHC120E4RHA0Z]			20-25	\$ 12,000.00	2039						
27 RTU-14 [Trane YHC120E4RHA0Z]			20-25	\$ 12,000.00	2039						
28 RTU-15 [Trane YHD150F4RVB04D]			20-25	\$ 15,000.00	2039						
29 RTU-16 [Trane YHC048F4RHAD201A]			20-25	\$ 15,000.00	2039						
			15-20								
30 AC Condenser [Mitsubishi PUYA18NKA7]				\$ 5,500.00	2039						
31 RTU-17 [Trane YHC120F4RZA0PKEE]			20-25	\$ 12,000.00	2044						
32 RTU-18 [Trane YHC120F4RZA0PKEE]			20-25	\$ 12,000.00	2044						
33 RTU-19 [Trane YHC060F4ZA1TK0E]			20-25	\$ 6,000.00	2044						
34 RTU-20 [Trane YHC092F4RZA0PK6E]			20-25	\$ 9,000.00	2045						
35 RTU-21 [Trane YHD180G4RUB0YKHE10]			20-25	\$ 18,000.00	2045						
36 RTU-23 [Trane YHC092F4RYA0PK6E]			20-25	\$ 9,000.00	2045						
37 Parking Lot	Asphalt		20-25		2046						
38 Boiler 1 [PK CRNT3597-4123R]			25-30	\$ 40,000.00	2049						
39 Boiler 2 [PK CRNT3597-4123R]			25-30	\$ 40,000.00	2049						
40 Generator			35-40								
41 Roof	Crafts Roofing Installed; 30 year metal warranty; 15 year membral		25-30		2049						
42 AHU-1 [Trane]	DX Coil may need replacement with condenser		Indefinite								
43 AHU-2 [Trane]	DX Coil may need replacement with condenser	1995	Indefinite								
44 AHU-3 [Trane]	DX Coil may need replacement with condenser	1995	Indefinite								

Manawa Schools

CAPITAL PLANNING	- Elemenatar	y School
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	CAPITAL PLANNING - Elem	enatary Sch	001			1			
BUDGET ITEM:	NOTES	EQUIPMENT AGE (Year New)	LIFE EXPECTANCY (Years)	E	BUDGET STIMATE day's Dollars)	Scheduled Completed Date (Year)	Total Budget for Fiscal Year	Fiscal Year	APPROVED DATE
1 Exhaust Fans x15 [Cook - Various Models]		1996?	15-20	\$	25,000.00	2016			
2 AC Condenser [Trane TTA090A400CB]	Serves AHU-5		15-20	\$	4,510.00	2016			
3 Water Heater [A.O. Smith ECT80210]	Room 137A		10-15	\$	2,000.00	2027			
	Air Handler Room		10-15	\$	2,000.00	2034			
5 Water Heater [A.O. Smith BTH 199 200]	Boiler Room	2016	15-20	\$	15,000.00	2036			
6 Water Heater [A.O. Smith BTH 199 300]	Boiler Room		15-20	\$	15,000.00	2037			
7 AC Condenser [Trane TWA07244DAB01AR0]	DO - Serving AHU-7		15-20	\$	4,500.00	2040			
8 Chiller [Daikin AGZ150EDSEMNN00]	Air cooled - roof mounted		20-25	\$	150,000.00	2043			
9 Parking Lot	Asphalt		20-25		·	2043			
10 AHU-7 [Trane TWE07244BAA]	Mounted above ceiling in hallway	2020	20-25	\$	3,100.00	2045			
11 Boiler 1 [PK Sonic SC3000]		2017	25-30	\$	60,000.00	2047			
12 Boiler 2 [PK Sonic SC3000]		2017	25-30	\$	60,000.00	2047			
13 Generator			35-40						
14 Membrane Roof	Crafts Roofing Installed; 15 year membrane warranty	2019	25-30			2049			
15 AHU-1 [Trane]			Indefinite	\$	42,500.00				
16 AHU-2 [Trane]		1996	Indefinite	\$	42,500.00				
17 AHU-3 [Trane]	No information given on this Trane air handler		Indefinite						
18 AHU-4 [Trane]		1	Indefinite	\$	27,860.00				
19 AHU-5 [Trane]	DX Coil Replacement-R410A condening unit.		Indefinite	\$	8,250.00				
20 AHU-5 [Trane]	New Air Handler		Indefinite	\$	8,350.00				
21 Cabinet heaters. Cost per each	Tagged M-1, 18.	1000	macinino	\$	1,800.00				
22 Unit Heater.	Tag. N AH RM			\$	1,525.00				
23 Unit Heater.	Tag. Room 129A			\$	890.00				
24 Unit Heater.	Tag. Room 136B Elec			\$	1,185.00				
25 Unit Heater.	Tag. Room 138 Rec			\$	1,525.00				
26 Unit Heater	Room 1027 Rec			\$	1,865.00				
27 Unit Heater	Room 1028		1	\$	1,135.00				
28 Metal Roof	Crafts Roofing Installed: 30 year metal warranty	2016	40+			2056			
						1			
						1			

MANAWA ELEMENTARY SCHOOL MAINTENANCE PROGRAM MANUAL



8/27/2021

800 Beech St - Manawa, WI

Prepared For: Manawa School District/Dr. Melanie Oppor

Prepared By: Brandon M. Selissen - Pfefferle Management



The purpose of this manual is to provide information related to ongoing preventive maintenance of various equipment and assets in an effort to help ensure proper operation/service throughout their useful life. The program prescribed herein will not provide extensions of existing warranties on equipment, nor will it guarantee any equipment against failure that could not be foreseen.

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Annual/Semi-Annual Inspections
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Chiller
AC Condensers
Water Heaters
Generator
Exhaust Fans
Roof Areas
Cabinet and Unit Heaters

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Daily Preventive Maintenance Inspections

Daily Preventive Maintenance Inspections (PM's) typically focus on observing and identifying problems or potential problems with critical building systems or equipment. Daily PM's are passive, brief in nature, and ideally performed early in the work day. Observations that appear to be out of the ordinary should require further investigation and proper repairs made as necessary.

Recommended Daily Inspections:

- Check HVAC system computer to verify proper function and readings (if applicable)
- Mechanical/Air Handler Room Walk Through
 - Verify operation of air handler fans
 - Verify operation of pumps
 - O Listen for unusual sounds or noises coming from pumps, motors, fans, belts, etc.
 - Look for leaks
- Boiler Room Walk Through
 - Verify operation of boilers
 - Check boiler information centers for error messages
 - Look for leaks
- General Walk Through
 - o Break the building up into 4-5 general areas of focus and inspect at least one area per day
 - Look for water leaks/stained ceiling tiles
 - Test doors/locks for proper operation

Monthly Planned Maintenance/Inspections

Monthly Planned Maintenance and Inspections are more in depth than daily maintenance and focus on maintaining proper operation of equipment through proactive procedures.

Recommended Monthly Maintenance/Inspections:

- Air Handler Inspection*
 - o Check belts for wear.
 - Replace as necessary.
 - Check filters for excessive dirt build up.
 - Replace as necessary.
 - Inspect coils for buildup.
 - Clean as necessary.
- Exhaust Fan Inspection*
 - Verify operation of fan.
 - o Replace belts as needed.
- Roof/Drain Inspection*
 - O Check all roof drains for blockages and remove as necessary.
 - Verify drain covers are securely in place.
 - o Inspect roof membrane for damage or wear.
 - o Remove debris from roof.
- Means of Egress/Life Safety Inspection
 - Verify all paths of egress are clear of obstruction and doors are functioning.
 - Verify all egress paths are marked clearly and exit lighting/signage are functioning properly.
 - Log emergency lighting tests per local requirements.
- Exterior Lighting Inspection
 - Test exterior building lights and parking lot lights and repair/replace as necessary.
- Lighting Control Inspection
 - Test lighting controls and adjust schedules as necessary.
- Door Inspection
 - Test function of doors and hardware.
 - Lubricate parts as needed.
 - Adjust closers as needed.
 - Adjust thresholds/sweeps as needed.
 - Inspect weather seals and repair/replace as needed.
- Generator Testing*
 - Perform monthly generator test.
- Boiler Inspection*
 - Test chemicals.
 - o Check condensate drains for obstruction.
 - o Inspect flue piping for leaks and corrosion.

^{*}See PM Task Sheet for more detailed information

Quarterly Planned Maintenance/Inspections

Quarterly Planned Maintenance and Inspections typically requires replacement of filter media and manual cleaning of equipment.

Recommended Quarterly Maintenance/Inspections:

- Air Handler Inspection*
 - o Replace air filters.
 - Check belts for wear.
 - Replace as necessary.
 - Inspect coils for buildup.
 - Clean as necessary.
- Air Conditioning Condenser Unit (Exterior) Inspection*
 - Verify operation of fan(s).
 - Listen for unusual sounds, squealing, or noises.
 - Verify operation of compressor.
 - Listen for unusual sounds, squealing, or noises.
 - Check coils for buildup and damage.
 - Rinse coils with water and coil cleaning solution.
 - Comb out damaged fins.
- Pump Inspection
 - O Check pumps for function.
 - Listen for unusual sounds, squealing, grinding, or other noises.
 - Lubricate.
 - Check for leaks.
 - Check pressures (if applicable)
- Chiller Inspection (Spring & Fall)*
 - o Inspect piping and fittings for leaks.
 - Listen for unusual noises/sounds.
 - Clean strainers and coils.
- Water Softeners
 - Check salt level
 - Inspect piping for leaks and corrosion

^{*}See PM Task Sheet for more detailed information

Annual/Semi Annual Planned Maintenance/Inspections

Annual/Semi Annual Planned Maintenance and Inspections focus on equipment or systems with fewer moving parts and/or less than daily usage, or certain components of larger equipment that don't require frequent attention.

Recommended Annual/Semi Annual Maintenance/Inspections:

- Variable Frequency Drives (VFD's)
 - Blow out/vacuum electronics.
- Unit Heaters*
 - Test fans for function.
 - o Blow/vacuum off coils.
- Cabinet Heaters*
 - Test fans for function (if present)
 - Blow/vacuum off coils.
 - Inspect/replace filters (if present)
 - Replace as necessary.
 - Inspect coils for buildup.
 - Clean as necessary.
 - Oil motors where applicable.
- Domestic Water Heaters*
 - Drain sediment from tank
 - Test safety valve
 - Check temperature settings
 - Check all electrical connections
- Building Exterior
 - Visually inspect all exterior surfaces for paint failure, brick/block/mortar deterioration, cracks, etc.
 - Repair deficiencies as needed.
- Parking Lots, Sidewalks, Driveways (Spring)
 - Visually inspect for winter damage from freeze/thaw cycles and snow removal processes.
 - Repair damaged as necessary.
 - Work with asphalt maintenance contractor to assess lots annually and perform recommended maintenance.
 - Crack filling.
 - Seal coating.
 - Line Striping.

^{*}See PM Task Sheet for more detailed information

Additional Notes and Recommendations

At the time this program was developed, most of the facilities major equipment/assets have been modernized and are less than 10 years of age. Proper routine preventive maintenance procedures should help ensure full or extended service lives from this vital building equipment. Observations of certain equipment and/or assets made during the development of this program include:

<u>Air Handlers</u>: Air handlers 1-6 appear to be original to construction of the facility (ca. 1996). AHU - 7 was installed in 2020. Components of air handlers include motors, coils, fans, louvers, etc. all of which are replaceable and/or serviceable. Service life of an air handler is indefinite and the need for a complete replacement of an air handler unit is quite unlikely absent a catastrophic failure or major technological advance in general equipment design. Routine inspection and basic repairs can be made by on staff maintenance personnel, but professional inspection is recommended at least annually.

<u>Boilers:</u> Two large boilers provide hot water throughout the facility. These boilers were manufactured in 2017 and should provide a 25-30 year service life with proper maintenance. Basic operation inspection should be performed routinely by building staff. Annual inspection and maintenance by HVAC professional is recommended.

<u>Chiller:</u> The single air cooled Daikin chiller located on the northeast roof area provides chilled water to 4 of the building's AHU's. This unit was manufactured in 2018 and should provide 25 - 30 years of service. Basic cleaning and inspection should be performed by building staff with professional service recommended at least 1x per year.

<u>Air Conditioner Condensing Units:</u> Two air conditioning condensing units are present, with one located on the District Office roof serving AHU -7 and a second on the central roof serving AHU -5. Typical service life of an AC unit is 20 - 25 years. The DO unit was installed in 2020 and the unit serving AHU -5 was manufactured in 1996. The unit serving AHU -5 is near or at the end of its typical service life and replacement should be considered/expected. Basic cleaning and inspection can be performed by maintenance staff with annual service by a professional contractor recommended.

<u>Water Heaters</u>: Water heaters present vary in age from 2-9 years of age. Minimal maintenance is needed beyond routine inspection and testing. Life expectancy of most water heaters is 10-15 years depending on water quality.

<u>Generator</u>: Emergency power is provided by a single generator. The unit is in like new condition. Most generators can be maintained as long as replacement parts are available, but service life should be considered 25 – 30 years. Basic inspection, testing, and maintenance can be performed by maintenance staff, but professional testing and repairs should be made by a qualified generator maintenance company per manufacturer's recommendation.

Exhaust Fans: Numerous exhaust fans are present throughout the facility all in various condition and/or states of function at the time of the inspection. Many of the fans are original to construction with some in need of belt adjustment and/or replacement and others not appearing to be functional. Complete assessment of the exhaust fan network should be completed and repairs made as necessary to assure function. If some fans are no longer required, they should be decommissioned and removed if desired. Replacement of the original legacy fans may be desired and should be planned for. Typical life expectancy of this type of fan is 15 –

20 years. Inspection and maintenance of exhaust fans can be performed by typical maintenance staff, however repairs and/or replacement should be performed by a professional HVAC contractor.

Roof Areas: All areas of the roof appear to be in relatively new/good condition. The low slope portions of the roof are ballasted EPDM which has a life expectancy of 20 - 25 years. Routine inspections of the roof should be performed by building personnel to identify any damage, changes, or potential issues as well as remove debris and keep roof drains clear. Annual inspection by a roofing professional is recommended and any necessary repairs should be performed professionally in order to maintain any existing warranty. The steep slope areas of the roof are concealed fastener metal panel. Metal roofs like these should perform for 50+ years with little to no maintenance required. Routine inspection is recommended to identify any issues or damage. Associated sealants should be inspected annually for failure and replaced as needed.

<u>Cabinet and Unit Heaters:</u> Numerous cabinet and unit heaters are located throughout the building providing supplemental heat to vestibules and other lesser occupied spaces. These heaters have few moving parts and should be serviceable. Many filters of the cabinet heaters appeared to be very dirty and not having been replaced in some time. These should be replaced routinely as dirt build up can significantly affect the performance and efficiency of the units. Routine maintenance includes cleaning/vacuuming of components and function testing. Professional service is typically only necessary if there becomes a leak in the water supply or fan motor failure.

<u>Other:</u> Identifying and tagging equipment listed in this maintenance program is recommended. This exercise can help all parties involved with maintenance and repair as well as assist in identifying pieces for planned replacement. Installation of ID tags with a corresponding catalog entry is very useful in any maintenance program.

INSPECTION and PM CHECKLISTS

Monthly Inspections

Quarterly Inspections

Annual/Semi-Annual Inspections

EQUIPMENT INFO AND PM TASK SHEETS

Air Handlers (1-7)

Boilers (x2)

Chiller

Air Conditioner Condensers (x2)

Water Heaters (x4)

<u>Generator</u>

Exhaust Fans (Multiple)

Roof Areas (x6)

Cabinet and Unit Heaters (Multiple)

INDEX OF EQUIPMENT DATA BY AREA

Mechanical Rooms

Rooftops

Entryways

District Office

Northeast Area

Commons/Kitchen/Music Area

Office and West House

Central/Library/East House

Equipment Expansion Log

Room #	Equipment	Manufacturer	Model	Serial #	Date of Mfr.	Notes
N AH Rm.	Pump -5	Taco	Fl3007F4DAJ2L0AB196	520118/1/1	2018	Grease 2x/year; Inspect Coupler
N AH Rm.	Pump - 6	Taco	Fl3009F4FAJ2L0CB197	520118/2/1	2018	Grease 2x/year; Inspect Coupler
N AH Rm.	AHU 3	Trane	unknown		1996	16-20x25-2; 2 - 5L570
N AH Rm.	AHU 4	Trane	MCCA025GAM0ABC	K96C23124	1996	12-20x25x2; 2 - BX78
N AH Rm.	VFD - AHU 3	Danfoss	131B4245	000819H309	2019	Blow out 2x/year
N AH Rm.	Return Fan for AHU 3	Baldor Motor	EM3218T	F196		Grease 2x/year; 2 - AX80
N AH Rm.	Unit Heater	Trane	VH5A16858DAAF	A96A11090	1996	Blow off Coil 2x/year
N AH Rm.	VFD - Pump 5	ABB	ACH550-PDR-0689-4	2180402009	2018	Blow out 2x/year
N AH Rm.	VFD - Pump 6	ABB	ACH550-PDR-012A-4	2180402009	2018	Blow out 2x/year
Boiler	Pump - 3	Taco	FI2009F4EAH2L0CB197	519473/2/1	2018	Grease 2x/year; Inspect Coupler
Boiler	Pump - 4	Taco	FI2009F4EAH2L0CB197	519473/2/1	2018	Grease 2x/year; Inspect Coupler
Boiler	Recirc. Pump	Bell & Gosset			2015	Oil Regularly
Boiler	Water Heater	AO Smith	BTH 199 200	1643103727272	2016	
Boiler	Water Heater	AO Smith	BTH 199 300	1725106686478	2017	
Boiler	Boiler	PK Sonic	SC3000	S300 17-01170	2017	
Boiler	Boiler	PK Sonic	SC3000	S300 17-01171	2017	
Boiler	Boiler Pump	Taco				
Boiler	Boiler Pump	Taco				
Boiler	Cond. Treatment					Replace Media Annually
Boiler	Cond. Treatment					Replace Media Annually
Boiler	VFD - Pump 3	ABB	ACH550PDR08A8-4	2180402017	2018	Blow out 2x/year
Boiler	VFD - Pump 4	ABB	ACH550PDR08A8-4	2180402050	2018	Blow out 2x/year
Boiler	Backflow Preventer					Annual Testing by Qualified Vendor
Boiler	Eyewash Station	Bradley				Clean/Test Monthly
S AH Rm.	AHU 1	Trane	MCCA035GAM0ACC	K96C25813	1996	16-20x25x2; 2-5L580
S AH Rm.	AHU 2	Trane	MCCA035GAM0ACC00	K96C25842	1996	16-20x25x2: 2-BX55
S AH Rm.	AHU 5	Trane	MCCA006AM0ABC	K96C24495	1996	4-16x20x2; 2-5L490
S AH Rm.	VFD - AHU 1	Danfoss	131B4245	000919H309		Blow out 2x/year
S AH Rm.	VFD - AHU 2	Danfoss	131B4245	000719H309		Blow out 2x/year
S AH Rm.	VFD - AHU 5	Danfoss				Blow out 2x/year
S AH Rm.	Booster Pump	Bell & Gosset	F11	118844LF		Oil Regularly

S AH Rm.	Water Heater	Bradford White	RE35056-1NCWW	TH43829862	2019	
S AH Rm.	Return Fan for AHU 1	Baldor Motor	EM3218T	F196		Grease 2x/year; 2 - AX85

Room #	Equipment	Manufacturer	Model	Serial #	Date of Mfr.	Notes
NE	Chiller	Daikin	AGZ150EDSEMNN00	STNU180500103	2018	
NE	Exhaust Fan	Cook	130C3B		1996?	Girls Shower?;
NE	Exhaust Fan	Cook	180C3B		1996?	Girls Locker?; Belt 4L270
NE	Exhaust Fan	Cook	135C3B		1996?	Boys/Girls R.R.; Belt A21
NE	Exhaust Fan	Cook	180C3B		1996?	Boys Locker?; Belt 4L270
NE	Exhaust Fan	Cook	195C3B		1996?	Room 127 (Art); Belt A31
NE	Exhaust Fan	Cook	100C3B		1996?	Room 127C (Kiln)?; Belt 4L180
NE	Exhaust Fan	Cook	120C3B		1996?	Room 129A (Storage)?; 4L240
DO	Exhaust Fan					
DO	Exhaust Fan					
DO	AC/Condensor	Trane	TWA07244DAB01AR0	20162248YA	2020	
Central	Exhaust Fan	Greenheck	G095-VG-6-X	16178185-20B	2020	Direct Drive - Multiple Toilet Rooms
Central	Exhaust Fan	Cook	150C3B		1996?	Restrooms; Belt 4L240; Motor Seized
Central	Exhaust Fan	Cook	135R3B		1996?	Restroom; Belt A21
Central	Exhaust Fan	Cook	165VH6B		1996?	Kitchen; Belt 4L200; Motor Seized
Central	Exhaust Fan	Cook	135R4B		1996?	Kitchen; Belt 4L200
Central	Exhaust Fan	Cook	135C3B		1996?	Receiving; Belt 4L230
Central	Exhaust Fan	Cook	150C3B		1996?	Restrooms; Belt 4L240
Central	Exhaust Fan	Cook	120C3B		1996?	Restrooms; Belt 4L240
Central	AC/Condensor	Trane	TTA090A400CB	L061PMSAH	1996	Serves AHU-5
All	Drains					Multiple

Room #	Equipment	Manufacturer	Model	Serial #	Date of Mfr.	Notes
M-1	Cabinet Heater	Trane	FFNB0401AF0C0C1BA	H	1996	Filter 8.875 x 24.125 x 1
M-1	Cabinet Heater	Trane	FFNB0401BAYCOC1BA	A .	2021	Filter
M-2	Cabinet Heater	Trane	FFNB0401BF0C0C1BA	H	1995	Filter 8.875 x 24.125 x 1
M-3	Cabinet Heater	Trane	FFNB0401BF0C0C1BA	H	1995	Filter 8.875 x 24.125 x 1
M-4	Cabinet Heater	Trane	FFNB0401BF0C0C1BA	Н	1995	Filter 8.875 x 24.125 x 1
M-5	Cabinet Heater	Trane	FFNB0401BF0C0C1BA	Н	1995	Filter 8.875 x 24.125 x 1
M-6	Cabinet Heater	Trane	FFNB0401BF0C0C1BA	Н	1995	Filter 8.875 x 24.125 x 1
M-7						
M-8	Cabinet Heater	Trane	FFNB0401BF0C0C1BA	Н	1995	Filter 8.875 x 24.125 x 1
M-9						
M-10						
M-11						
M-12	Cabinet Heater	Trane				
M-13						
M-14	Cabinet Heater	Trane				
M-15						
M-16						
M-17						
M-18	Cabinet Heater	Trane	FFNB0601AF0C0C1BA	Н	1995	Filter 8.875 x 33.625 x 1

Room #	Equipment	Manufacturer	Model	Serial #	Date of Mfr.	Notes
131						Board Room
133						D.O. Reception
133A						D.O. Office
133B						D.O. Corridor
133C	HVAC Control Panel	Alerton				D.O. Storage
133D						D.O. Vault
133E						D.O. Business Manager Office
133F						D.O. District Adminisrator Office
134	AHU-7	Trane	TWE 07244BAA	20151348BA	2020	3 - 16x 25x1 Filters; Belt - BX49
134A						Vestibule

Room #	Equipment	Manufacturer	Model	Serial #	Date of Mfr.	Notes
127	Roof mounted fan					Art
127A						Art Office
127B						Art Storage
127C	Roof mounted fan					Kiln
128						Classroom
128A						Activity Room
129						Classroom
129A	Roof mounted fan					Storage
129A	Unit Heater	Trane	UHSA038580AAG	A95B31745	1995	Fan Powered/Water Heat; Blow off coil
129B						Storage
129C						Storage
130						Gymnasium
130 A						Storage
130 B						Boys Locker Corridor to Gym
130 C	Roof mounted fan					Boys Locker Room
130D	Roof mounted fan					Boys Showers
130E						Boys Locker Room Office
130F						Boys Locker Room Corridor from Hall
130G	Roof mounted fan					Boys Locker Room Toilet
130H						Fitness Room
130J						Girls Locker Corridor to Gym
130K	Roof mounted fan					Girls Locker Room
130L	Roof mounted fan					Girls Shower
130M						Girls Locker Room Office
130N						Girls Locker Room Corridor from Hall
130P	Roof mounted fan					Girls Locker Room Toilet
135						Corridor
135A	Cabinet heater					Vestibule (See Entryways)
136	İ					Corridor
136A	Cabinet heater					Vestibule (See Entryways)
136B (Elec	Unit Heater	Trane	UHSA10058DAAE	A95L10564	1995	Fan Powered/Water Heat; Blow off coil

136B (Elec)	Gen. Transfer Switch			
138B (Elec)	Generator	Generac		Outside
136B (Elec)	Time Clock	Intermatic		Adjust seasonally as needed

Room #	Equipment	Manufacturer	Model	Serial #	Date of Mfr.	Notes
100	Cabinet heater x2					Vestibule (See Entryways)
100A						Corridor
100B						Commons
125						Band
125A						Band Storage
125B						Band Practice Room
125C						Band Office
126						Music
126A						Music Storage
126B						Music Practice Room
126C						Music Office
126D						Music Practice Room
126E						Music Practice Room
135B						Custodian Closet
137 (Kitch)	Roof mounted fan					Range hood w/ Ansul
137 (Kitch)	Roof mounted fan					Dishwasher Hood
137 (Kitch)	Fire Suppression	Ansul	R102	R-431263		Annual Professsional Inspection Req.
137A	Water Heater	A.O. Smith	ECT80210	1214A000508		Kitchen Storage Room
137A	Water Softener	Hellenbrand	H100-048			Appeared to not be in service
138 (Rec.)	Roof mounted fan					Receiving Area
138 (Rec.)	Unit Heater	Trane	UHSA16858DAAG	A95B31744	1995	Fan Powered/Water Heat; Blow off coil
138 (Rec.)	Alarm Panel	Honeywell	NFS-320			Annual Professsional Inspection Req.
138 (Rec.)	Garage Door					Inspect monthly/lubricate
Rec. Stor.	Air Compressor	Bostitch	2969415600			For Water Softener
Rec. Stor.	Water Softener	Culligan	СТМ	23717028	2016	Routine maintenance by Culligan?
Rec. Stor.	Water Softener	Culligan	СТМ	23717030	2016	Routine maintenance by Culligan?

Room #	Equipment	Manufacturer	Model	Serial #	Date of Mfr.	Notes
100C						Corridor
100H						Corridor
100J	Cabinet Heater					Vestibule
100F	Cabinet Heater					Vestibule
101						School Office
101A						Nurse
101B	Roof mounted fan					Restroom
101C	Roof mounted fan					Restroom
101D						Office
101E						Office
101F						Work Room
101G						Corridor
101H						Principal Office
101J						Storage
104						Guidance
104A						Guidance Office
104B						Conference Room
104C						Office
104D						Storage
105						Classroom
105A						Corridor
105B	Roof mounted fan					Girls Restroom
105C	Roof mounted fan					Boys Restroom
105D						Resource
105E	Cabinet Heater					Vestibule
105F						Storage
106						Classroom
107	107					Classroom
108	08					Classroom
108A						Conference Room
108B						Storage

109			Classroom
110			Classroom
111			Classroom

Room #	Equipment	Manufacturer	Model	Serial #	Date of Mfr.	Notes
100D						Corridor
100E						Corridor
100G	Cabinet Heater					Vestibule
100K						Corridor
100L	Cabinet Heater					Vestibule
100M	Cabinet Heater					Vestibule
102						Special Education
102B						Study Room
102C						Storage
103						OT/PT
103A						OT/PT
112						Library
112A						Library Work Area
112B						Library Office
112D						Library Storage
112E						Office
112F						Office
113						Classroom
113A						Corridor
113B	Roof mounted fan					Girls Restroom
113C	Roof mounted fan					Boys Restroom
113D						Resource
113E	Cabinet Heater					Vestibule
113F						Storage
114						Classroom
115						Classroom
116						Classroom
116A						Office
116B						Storage
117						Classroom
118						Classroom

119		Classroom	
120		Computer Lab	
120A		Staff Room	
120B		Staff Workroom	
121		4 year old Kindergarden	
122		Early Childhood	
123		4k Activity Room	
123A	Roof mounted fan	Toilet	
123B		Storage	
124		Special Education	
124A		Storage	
124B		Corridor	
124C		Office	
124D	Roof mounted fan	Bathroom	
124E		Electrical	
139	Roof mounted fan	Girls Restroom	
140	Roof mounted fan	Boys Restroom	
141	Roof mounted fan	Family Restroom	
143	Roof mounted fan	Toilet	
144	Roof mounted fan	Toilet	
145		Stair Access to Mech. Room	า
146		Custodian	
147		IT Room	

Monthly Inspection Checklist

Elementary School/District Office

2021

Task	TL	Time	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Air Handler Inspection	М	15 min. (ea.)												
Exhaust Fan Inspection	М	30 min.												
Roof/Drain Inspection	C/M	30 min.												
Means of Egress Inspection	C/M	30 min.												
Exterior Lighting Inspection	C/M	30 min.												
Lighting Control Inspection	М	15 min.												
Door Inspection	М	1 hr.												
Generator Testing	M/P	30 min.												
Boiler Inspection	M/P	15 min. (ea.)												
Comments:				-				-		•		•		

Technical Level (TL): C = Custodial M = Maintenance P = Professional

Quarterly Inspection Checklist

Elementary School/District Office

2021

Task	TL	Time	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Air Handler Inspection	M/P	30 min. (ea.)					_	_						
AC Condensing Unit Inspection	M/P	15 min. (ea.)												
Pump Inspection	M/P	15 min. (ea.)												
Chiller Inspection (Spring/Fall)	M/P	1 hr.												
Water Softener Inspection	М	15 min. (ea.)												
Comments:														

Technical Level (TL): C = Custodial M = Maintenance P = Professional

Annual/Semi Annual Inspection Checklist

Elementary School/District Office

2021

Task	TL	Time	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
VFD Cleaning/Inspection	M/P	10 min. (ea.)												
Unit Heater Inspection/Cleaning	M/P	10 min. (ea.)												
Cabinet Heater Inspection/Cleaning	M/P	20 min. (ea.)												
Domestic Water Heater Inspection	M/P	15 min.												
Building Exterior Inspection	М	1 hr.												
Parking Lot Inspection/Evaluation	M/P	1 hr.												
Comments:									<u> </u>					
Comments.														

Technical Level (TL): C = Custodial M = Maintenance P = Professional

Air Handlers

Planned Mainten	ance Task Sheet		Facility	y:	Eleme	ntary Sc	:hool/DC)		Location	on	S. Air I	Handler	Room
				AH	U-1									
Manufacturer:	Trane	Model Numb	er:	MCCA	035GAN	лоасс		Serial:	K96C2	5813	Year of	Mfr.:		1996
Belts:	2 - 5L580	Filters:		16 - 20)x25x2									
Task			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Disconnects labe	eled and accessible													
Equipment locked	d and tagged out													
Filters cleaned ar														
Evaporator coil c	lean													
Drain pan and dra	ain line clean													
Blower fan belt tig	ght, checked for wear ar	nd alignment												
Blower fan bearir	ngs quiet, clean and lubr	ricated												
Motor free of exc	essive heat or noise													
Squirrel cages, c	lean and balanced													
Equipment panel	s secure													
Frequency Drive	cooling fan and filter cle	an												
Condenser coil a	ssociated with unit clear	า												
Check condense	r coil for signs of leaks s	uch as oil												
No unusual noise	e coming from condense	r fan motors												
Condenser fan bl	lades secure and intact													
Adequate supply	of spare parts													
Comments:				•	•	•	•	•	•	•	•	•	•	•

Planned Maintenance Task Sheet			Facility	/ :	Elemer	ntary Sc	:hool/D0)		Location	on	S. Air F	Handler	Room
				AH	U-2									
Manufacturer:	Trane	Model Numbe	r:	MCCA	035GAN	/IOACC	00	Serial:	K96C2	5842	Year of	Mfr.:		1996
		·												
Belts:	2 - BX55	Filters:		16-20x	25x2									
_		•						_	_	_	_	_	_	_
Task			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Disconnects labeled	Disconnects labeled and accessible													
Equipment locked and tagged out														
Filters cleaned and	or changed													
Evaporator coil clea	ın													
Drain pan and drain	line clean													
Blower fan belt tight, checked for wear and alignment														
Blower fan bearings	quiet, clean and lub	oricated												
Motor free of excess	sive heat or noise													
Squirrel cages, clea	n and balanced													
Equipment panels s	secure													
Frequency Drive co	oling fan and filter cle	ean												
Condenser coil asso	ociated with unit clea	n												
Check condenser co	oil for signs of leaks	such as oil												
No unusual noise co	oming from condense	er fan motors												
Condenser fan blad	les secure and intact													
Adequate supply of	spare parts													
Comments:														

Planned Maintenance Task Sheet		Facilit	Facility: Elementary School/DO						Location N. Air Handler Room					
				AH	U-3									
Manufacturer:	Trane	Model Numbe	lodel Number: Unknown					Serial:	Unkno	own Year of Mfr.:				1996
							_							
Belts:	2 - 5L570	Filters:		16 - 20)x25x2									
-			1				,			i				
Task			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Disconnects labele	d and accessible													
Equipment locked	and tagged out													
Filters cleaned and	l or changed													
Evaporator coil clea	an													
Drain pan and drain	n line clean													
Blower fan belt tight, checked for wear and alignment														
Blower fan bearing	s quiet, clean and lubricat	ed												
Motor free of exces	ssive heat or noise													
Squirrel cages, clea	an and balanced													
Equipment panels:	secure													
Frequency Drive co	ooling fan and filter clean													
Condenser coil ass	sociated with unit clean													
Check condenser of	coil for signs of leaks such	as oil												
No unusual noise coming from condenser fan motors														
Condenser fan blad	des secure and intact													
Adequate supply of	f spare parts													
Comments:														
I														

Planned Maintenance Task Sheet			lity: Elementary Schoo	Location N	I. Air Handler Room			
AHU-4								
Manufacturer:	Trane	Model Number:	MCCA025GAM0ABC	Serial: K96C23	124 Year of N	/lfr.: 1996		

Belts: 2 - BX78 Filters: 12-20x25x2

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Disconnects labeled and accessible												
Equipment locked and tagged out												
Filters cleaned and or changed												
Evaporator coil clean												
Drain pan and drain line clean												
Blower fan belt tight, checked for wear and alignment												
Blower fan bearings quiet, clean and lubricated												
Motor free of excessive heat or noise												
Squirrel cages, clean and balanced												
Equipment panels secure												
Frequency Drive cooling fan and filter clean												
Condenser coil associated with unit clean												
Check condenser coil for signs of leaks such as oil												
No unusual noise coming from condenser fan motors												
Condenser fan blades secure and intact												
Adequate supply of spare parts												
Comments:		I	<u> </u>	<u> </u>	1	1	L	<u> </u>			1	

Air Handlers

Manawa School District

Planned Maintenar	nce Task Sheet	Fac	cility: Elementary Scl	hool/DO	Location	S. Air Handler Roo	om
			AHU-5				
Manufacturer:	Trane	Model Number:	MCCA006AM0ABC	Serial: K96C24	1495 Year of	Mfr.: 19	996

Belts: 2 - 5L490 Filters: 4-16x20x2

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Disconnects labeled and accessible												
Equipment locked and tagged out												
Filters cleaned and or changed												
Evaporator coil clean												
Drain pan and drain line clean												
Blower fan belt tight, checked for wear and alignment												
Blower fan bearings quiet, clean and lubricated												
Motor free of excessive heat or noise												
Squirrel cages, clean and balanced												
Equipment panels secure												
Frequency Drive cooling fan and filter clean												
Condenser coil associated with unit clean												
Check condenser coil for signs of leaks such as oil												
No unusual noise coming from condenser fan motors												
Condenser fan blades secure and intact												

Adequate supply of spare parts						
Comments:						

Planned Maintenar	Facility:	Elementary So	Locatio	n District	Office/Hallway				
			A	AHU-7					
Manufacturer:	Trane	Model Number:	: TW	E 07244BAA	Se	rial: 201513	348BA	Year of Mfr.:	2020
		·			_				

Belts:	BX49	Filters:	3 - 16x25x1

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Disconnects labeled and accessible												
Equipment locked and tagged out												
Filters cleaned and or changed												
Evaporator coil clean												
Drain pan and drain line clean												
Blower fan belt tight, checked for wear and alignment												
Blower fan bearings quiet, clean and lubricated												
Motor free of excessive heat or noise												
Squirrel cages, clean and balanced												
Equipment panels secure												
Frequency Drive cooling fan and filter clean												
Condenser coil associated with unit clean												

Check condenser coil for signs of leaks such as oil							
No unusual noise coming from condenser fan motors							
Condenser fan blades secure and intact							
Adequate supply of spare parts							
Comments:	-		-				-

Planned Maintenance Task Sheet			Facility:	Elementary School/D0)	Locatio	n Boiler Room	
	Boiler 1							
Manufacturer:	PK Sonic	Model Number	er: SC30	00	Serial: S300 1	7-01170	Year of Mfr.:	2017

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Disconnects labeled and accessible												
Equipment locked and tagged out												
Inspect venting for condition and signs of leakage												
Visually check main burner flame, should be blue with slight yellow ti												
Inspect condensate lines												
Inspect condensate neutralizer if installed, replace lime stone as nee												
Inspect temperature/pressure gages for proper readings												
Inspect boiler jacket for damage and tightness of panels												
Inspect hot water supply and return piping for leaks and condition												
Inspect pressure relief valve												
Inspect all pumps associated with system for operation and leaks												
Check pressure tank for proper fill level												
Check system pressure gage for proper pressure reading												
Adequate supply of spare parts												
Comments:												
						_						

Planned Maintenance Task Sheet			Facility: E	lementary School/DO	Locati	on Boiler Room	
			Boiler 2				
Manufacturer:	PK Sonic	Model Numbe	er: SC3000	Se	erial: S300 17-0117	Year of Mfr.:	2017

Task	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Disconnects labeled and accessible												
Equipment locked and tagged out												
Inspect venting for condition and signs of leakage												
Visually check main burner flame, should be blue with slight yellow ti												
Inspect condensate lines												
Inspect condensate neutralizer if installed, replace lime stone as nee												
Inspect temperature/pressure gages for proper readings												
Inspect boiler jacket for damage and tightness of panels												
Inspect hot water supply and return piping for leaks and condition												
Inspect pressure relief valve												
Inspect all pumps associated with system for operation and leaks												
Check pressure tank for proper fill level												
Check system pressure gage for proper pressure reading												
Adequate supply of spare parts												
Comments:												

Planned Maintena	ance Task Sheet	Fa	acility: Elementary S	School/DO	Locatio	n NE Roof	
			Chiller				
Manufacturer:	Daikin	Model Number:	AGZ150EDSEMNN	Serial: STNU1805001	103	Year of Mfr.:	2018

T	1 1	F-1-				T			0	0-4	L N	
Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean water strainer.												
Clean condenser coils with cleaning solution.												
Check fans for operation.												
Check operations panel for alarms.												
Check electrical connections for secureness.												
				-				-				
Adequate supply of spare parts												
Comments:												

Manawa School District

Planned Maintena	nce Task Sheet	Facility:	Elementary School/DO	Locatio	n District Office	Roof
		AC Co	ondenser			
Manufacturer:	Trane Model #:	TWA07244DAB01AR0	Serial: 20162248YA		Year of Mfr.:	2020

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Remove debris from air screens and coils	-	102		7.10.		0 0		7.0.9	336			
Clean coils with cleaning solution and rinse												
Straighten any damaged fins with comb												
Inspect electrical/wiring connections for secureness												
Inspect mounting for secureness												
Inspect and clean interior of unit												
Inspect refrigerant lines for wear or damage												
Check fan(s) for function and damage/wear												
Check for unusual sounds/noises/vibrations												
Adequate supply of spare parts												
Comments:				•								

Planned Maintena	nce Task Sheet	Facility:	Elementary School/DO	Location Central I	Roof						
AC Condenser											
Manufacturer:	Trane Model #:	TTA090A400CB	Serial: L061PMSAH	Year of Mfr.:	1996						

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Remove debris from air screens and coils												
Clean coils with cleaning solution and rinse												
Straighten any damaged fins with comb												
Inspect electrical/wiring connections for secureness												
Inspect mounting for secureness												
Inspect and clean interior of unit												
Inspect refrigerant lines for wear or damage												
Check fan(s) for function and damage/wear												
Check for unusual sounds/noises/vibrations												
												1
Adequate supply of spare parts												
Adoquate supply of spare parts												<u> </u>
Comments:					1		<u> </u>	ļ			Į	1
Comments.												

Manawa School District

Planned Maintenance Task S	Sheet		Facility:	Elementary S	chool/DO	Location	on N Air Handle	Room			
WATER HEATER											
Manufacturer: A.O. Smith	Model #:	BTH 199 200			Serial: 16431037272	72	Year of Mfr.:	2016			

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Drain several gallons from tank to remove sediment		1 0.0		7.10.		0 0		7.0.9	336		1101	
Manually check operation of safety valve. Check for corros												
Check all connections, electrical/gas and water												
Check temperature settings and verify proper operation												
Inspect exterior surfaces for corrosion and/or leaks												
Adequate supply of spare parts												
Comments:												

Planned Maintenance Task	Sheet		Facility:	Elementary S	chool/DO	Location	on N Air Ha	ndler Room				
	WATER HEATER											
Manufacturer: A.O. Smith	Model #:	BTH 199 300			Serial: 172510668	86478	Year of Mfr.:	2017				

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Drain several gallons from tank to remove sediment												
Manually check operation of safety valve. Check for corro												
Check all connections, electrical/gas and water												
Check temperature settings and verify proper operation												
Inspect exterior surfaces for corrosion and/or leaks												_
												-
Adequate supply of spare parts												
Comments:												

Diamand Maintenana Tank Obsert	F 1114	Fl	1 4:	O Air Handley Deem
Planned Maintenance Task Sheet	Facility	: Elementary School/DO	Location	S Air Handler Room

		WATER HEATER			
Manufacturer: Bradford	Model #:	RE35056-1NCWW	Serial: TH43829862	Year of Mfr.:	2019

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Drain several gallons from tank to remove sediment												
Manually check operation of safety valve. Check for corro												
Check all connections, electrical/gas and water												
Check temperature settings and verify proper operation												
Inspect exterior surfaces for corrosion and/or leaks												
Adequate supply of spare parts												
Comments:				l				1			1	

Planned Maintenance Task Sheet	Facility:	Elementary School/DO	Location	137A
	WATER	HEATER		

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Drain several gallons from tank to remove sediment												
Manually check operation of safety valve. Check for corro												
Check all connections, electrical/gas and water												
Check temperature settings and verify proper operation												
Inspect exterior surfaces for corrosion and/or leaks												
												_
Adequate supply of spare parts												
Comments:												<u> </u>

Planned Maintenance Task S	Sheet	Facility:	Elementary So	chool/DO	Location	Outside 138B			
Generator									
Manufacturer: Generac	Model #:			Serial:	Ye	ear of Mfr.:			

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Record date of inspection.												
Check belts and tension.												
Check condition of hoses for deterioration and/or leakage.												
Check oil level												
Check antifreeze level												
Check battery terminals for tighness and corrosion												
Check battery charger												
Check block heater												
Inspect entire unit for oil, fuel, water leaks												
Record hours												
Initiate test at transfer switch												
Did unit transfer from utility power to emergency power?												
Record transfer time												
Record operating temperature												
Record operating oil pressure												
Record exhaust temperature (if applicable)												
Record voltage												
Record amperage												
Record frequency												
Check operation of intake louvers (if applicable)												
Check operation of remote annunciator (if applicable)												
Proper transfer back to utility power? (after 30 minutes)												
Did unit complete proper 5 minute cool down?												
Replaced panels removed for inspection.												
· · · · · ·												
Adequate supply of spare parts												
Comments:	•	•		•	•	•	•	•	•	•	•	

Planned Maintenance Task Sheet	Facilit	v:	Fleme	entary S	School/	DO		Locati	on	Rooft	าต		Northeast
Exhaus								120001	011	110011	- P		Northeast
Exitado	t i ai	13 (11	COIL		ount	<u>cu</u>							Northeast
Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Northeast
Disconnects labeled and accessible									-				Northeast
Equipment locked and tagged out													Northeast
Filters cleaned and or changed													Northeast
Blower fan mounts are secure													DO
Shaft aligned properly to motor													DO
Blower fan pulley secure to shaft													
Blower fan rotation correct													Central
Blower fan belt tight, checked for wear and alignment													Central
Blower fan bearings quiet, clean and lubricated													Central
Motor bearings free of wear													Central
Motor bearings lubricated													Central
Motor free of excessive heat or noise													Central
Squirrel cages, fan blades clean and balanced													Central
Fire, smoke and back draft dampers functional													Central
Equipment housings, caps and covers mounted secur													
Adequate supply of spare parts													
Comments:													
]
													1

Fan #	Manufacture	Model	Serial #	Date of Mfr.	Belt(s)	Serves
	Cook	130C3B		1996?		Girls Shower*
	Cook	180C3B		1996?	4L270	Girls Locker*
	Cook	135C3B		1996?	A21	Boys/Girls R.R.*
	Cook	180C3B		1996?	4L270	Boys Locker*
	Cook	195C3B		1996?	A31	Room 127 *(Art)
	Cook	100C3B		1996?	4L180	Room 127C*
	Cook	120C3B		1996?	4L240	Room 129A*
	Greenheck	G095-VG-6-X	16178185-20B	2020	N/A - Direct Drive	Multiple Toilets
	Cook	150C3B		1996?	4L240	Restrooms
	Cook	135R3B		1996?	A21	Restroom
	Cook	165VH6B		1996?	4L200	Kitchen
	Cook	135R4B		1996?	4L200	Kitchen
	Cook	135C3B		1996?	4L230	Receiving
	Cook	150C3B		1996?	4L240	Restrooms
	Cook	120C3B		1996?	4L240	Restrooms

Manawa School District

Planned Maintenance Task Sheet	Facility	y: Elementary School/D	0	Location	Roof				
Central Roof									
Installer	Year of Install:		Warranty:						

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Seams and welds appear tight									•			
Checked for pulling and tearing membrane												
Roof rains clear												
Drains have appropriate screens												
Flashing at chimneys, stack pipe vents and mechanical												
equipment intact												
Chimney brickwork, mortar and rain caps in good condition												
TV antennas and solar dishes secure												
Roof is free of debris												
Emergency roof repair materials in stock												
Ballast rock in place evenly with no bare spots												
Adequate supply of spare parts												
Comments:												,

Planned Maintenance Task Sheet	Facility:	: Elementary School/D0)	Location	Roof				
Northeast Roof									
Installer	Year of Install:		Warranty:						

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Seams and welds appear tight												
Checked for pulling and tearing membrane												
Roof rains clear												
Drains have appropriate screens												
Flashing at chimneys, stack pipe vents and mechanical												
equipment intact												
Chimney brickwork, mortar and rain caps in good conditio												
TV antennas and solar dishes secure												
Roof is free of debris												
Emergency roof repair materials in stock												
Ballast rock in place evenly with no bare spots												
Adequate supply of spare parts												
Comments:												

Planned Maintenance Task Sheet	Facility:	Elementary School/DO	Location Roof	
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Gymnasium and Boiler Room Roofs								
Installer	Year of Install:	Warranty:						

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Seams and welds appear tight												
Checked for pulling and tearing membrane												
Roof rains clear												
Drains have appropriate screens												
Flashing at chimneys, stack pipe vents and mechanical												
equipment intact												
Chimney brickwork, mortar and rain caps in good conditio												
TV antennas and solar dishes secure												
Roof is free of debris												
Emergency roof repair materials in stock												
Ballast rock in place evenly with no bare spots												
Adequate supply of spare parts												
Comments:												

Planned Maintenance Task Sheet	Facility:	Elementary School/DO	Location	Roof
	District O	ffice Roof		

Installer	Year of Install:	Warranty:
motanor	rear or motali.	i vvarranty.

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Seams and welds appear tight												
Checked for pulling and tearing membrane												
Roof rains clear												
Drains have appropriate screens												
Flashing at chimneys, stack pipe vents and mechanical												
equipment intact												
Chimney brickwork, mortar and rain caps in good conditio												
TV antennas and solar dishes secure												
Roof is free of debris												
Emergency roof repair materials in stock												
Ballast rock in place evenly with no bare spots												
Adequate supply of spare parts												
Comments:	-			-			-		-	-	-	

Planned Maintenance Task Sheet	Location	Roof							
	South Roof								
Installer Year of Install: Warranty:									

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Seams and welds appear tight												
Checked for pulling and tearing membrane												
Roof rains clear												
Drains have appropriate screens												
Flashing at chimneys, stack pipe vents and mechanical												
equipment intact												
Chimney brickwork, mortar and rain caps in good condition												
TV antennas and solar dishes secure												
Roof is free of debris												
Emergency roof repair materials in stock												
Ballast rock in place evenly with no bare spots												
Adequate supply of spare parts												
Comments:												

Planned Maintenance Task Sheet	Lo	ocation	Roof						
Metal Roofs									
Installer Year of Install: Warranty:									

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Seams are intact and locked in place												
Coatings are in good condition and no corrosion of panel												
Sealants in good contidion												
Flashings and trims intact and fastened properly												
Exposed fasteners properly tightend and in good condition												
Metal panels free of damage, dents, tears, etc.												
Transitions properly sealed												
Mounted fixtures properly fastened and flashed/sealed												
Roof is free of debris												
Emergency roof repair materials in stock												
Adequate supply of spare parts												
Comments:												

Manawa School District											Location			
													M-1	
Planned Maintenance Task Sheet	Facilit	•		entary S				Locati		Vario	us		M-1	
Cabinet and Unit	Cabinet and Unit Heaters (Fan Powered/Hot Water Coil)													
Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	M-4	
Test fans for function (if present)													M-5	
Blow off/Vacuum coils													M-6	
nspect/Replace filters (if present)													M-8	
Oil motors (if applicable)													M-12	
Inspect piping and fittings for corrosion or leaks.													M-14	
													M-18	
													129A	
													136B	
													138 (Receivin	
													N. AHU Room	
Adequate supply of spare parts														
Comments:	•	•	•	•		•	•				•	•		
													1	
													1	
_													1	
													1	

Туре	Unit #	Manufacture	Model	Serial #	Date of Mfr.	Filters
Cabinet		Trane	FFNB0401AF0C0C1BAH		1996	8.875 x 24.125 x 1
Cabinet		Trane	FFNB0401BAYC0C1BAH		2021	
Cabinet		Trane	FFNB0401BF0C0C1BAI	Н	1996	8.875 x 24.125 x 1
Cabinet		Trane	FFNB0401BF0C0C1BA	Н	1996	8.875 x 24.125 x 1
Cabinet		Trane	FFNB0401BF0C0C1BA	H	1996	8.875 x 24.125 x 1
Cabinet		Trane	FFNB0401BF0C0C1BA	Н	1996	8.875 x 24.125 x 1
Cabinet		Trane	FFNB0401BF0C0C1BA	Н	1996	8.875 x 24.125 x 1
Cabinet		Trane	FFNB0401BF0C0C1BA	H	1996	8.875 x 24.125 x 1
Cabinet		Trane			1996	
Cabinet		Trane			1996	
Cabinet		Trane	FFNB0601AF0C0C1BAI	H	1996	8.875x33.625x1
Unit Heater		Trane	UHSA038580AAG	A95B31745	1995	N/A
Unit Heater		Trane	UHSA10058DAAE	A95L10564	1995	N/A
Unit Heater		Trane	UHSA16858DAAG	A95B31744	1995	N/A
Unit Heater		Trane	VH5A16858DAAF	A96A11090	1996	N/A

MANAWA MIDDLE/HIGH SCHOOL MAINTENANCE PROGRAM MANUAL



8/27/2021

E. 4th St. - Manawa, WI

Prepared For: Manawa School District/Dr. Melanie Oppor Prepared By: Brandon M. Selissen - Pfefferle Management



The purpose of this manual is to provide information related to ongoing preventive maintenance of various equipment and assets in an effort to help ensure proper operation/service throughout their useful life. The program prescribed herein will not provide extensions of existing warranties on equipment, nor will it guarantee any equipment against failure that could not be foreseen.

Section 1 - Inspections Daily/Weekly Preventive Maintenance (PM) Inspections Monthly Preventive Maintenance Inspections Quarterly Preventive Maintenance Inspections Annual/Semi Annual Preventive Maintenance Inspections Additional Recommendations Section 2 - Inspection Checklists Monthly Inspections Quarterly Inspections Annual/Semi-Annual Inspections Section 3 - Equipment/Asset Info and PM Task Sheets Air Handlers 1 - 3 Packaged Rooftop Units (RTU) - 22 Energy Recovery Ventilators (ERV) - 4 Boilers <u>1&2</u> Air Conditioning Condensers - 4 Exhaust Fans Roof Areas Water Heaters Cabinet and Unit Heaters Generator

Section 4 - Index of Equipment Data by Area

Table of Contents

Daily/Weekly Preventive Maintenance Inspections

Daily and/or Weekly Preventive Maintenance Inspections (PM's) typically focus on observing and identifying problems or potential problems with critical building systems or equipment. Daily/Weekly PM's are passive, brief in nature, and ideally performed early in the work day. Observations that appear to be out of the ordinary should require further investigation and proper repairs made as necessary. Performing these inspections on a daily basis is preferred, however, the location and size of the Middle/High school facility could make that more difficult. These inspections are recommended at least 1 time per week.

Recommended Daily Inspections:

- Check HVAC system computer to verify proper function and readings (if applicable)
- Mechanical/Air Handler Room Walk Through
 - O Verify operation of air handler fans
 - Verify operation of pumps
 - Listen for unusual sounds or noises coming from pumps, motors, fans, belts, etc.
 - Look for leaks
- Boiler Room Walk Through
 - Verify operation of boilers
 - Check boiler information centers for error messages
 - Look for leaks
- General Walk Through
 - o Break the building up into 4-5 general areas of focus and inspect at least one area per day
 - Look for water leaks/stained ceiling tiles
 - Test doors/locks for proper operation

Monthly Planned Maintenance/Inspections

Monthly Planned Maintenance and Inspections are more in depth than daily maintenance and focus on maintaining proper operation of equipment through proactive procedures.

Recommended Monthly Maintenance/Inspections:

- Air Handler Inspection*
 - o Check belts for wear.
 - Replace as necessary.
 - O Check filters for excessive dirt build up.
 - Replace as necessary.
 - Inspect coils for buildup.
 - Clean as necessary.
- Exhaust Fan Inspection*
 - Verify operation of fan.
 - o Replace belts as needed.
- Roof/Drain Inspection*
 - O Check all roof drains for blockages and remove as necessary.
 - Verify drain covers are securely in place.
 - o Inspect roof membrane for damage or wear.
 - o Remove debris from roof.
- Means of Egress/Life Safety Inspection
 - Verify all paths of egress are clear of obstruction and doors are functioning.
 - Verify all egress paths are marked clearly and exit lighting/signage are functioning properly.
 - Log emergency lighting tests per local requirements.
- Exterior Lighting Inspection
 - Test exterior building lights and parking lot lights and repair/replace as necessary.
- Lighting Control Inspection
 - Test lighting controls and adjust schedules as necessary.
- Door Inspection
 - Test function of doors and hardware.
 - Lubricate parts as needed.
 - Adjust closers as needed.
 - Adjust thresholds/sweeps as needed.
 - Inspect weather seals and repair/replace as needed.
- Generator Testing*
 - Perform monthly generator test.
- Boiler Inspection*
 - Test chemicals.
 - O Check condensate drains for obstruction.
 - Inspect flue piping for leaks and corrosion.

^{*}See PM Task Sheet for more detailed information

Quarterly Planned Maintenance/Inspections

Quarterly Planned Maintenance and Inspections typically requires replacement of filter media and manual cleaning of equipment.

Recommended Quarterly Maintenance/Inspections:

- Air Handler Inspection*
 - o Replace air filters.
 - Check belts for wear.
 - Replace as necessary.
 - Inspect coils for buildup.
 - Clean as necessary.
- Packaged Rooftop Unit Inspection*
 - o Replace air filters.
 - Check belts for wear.
 - Replace as necessary.
 - o Inspect coils for buildup and clean with appropriate cleaning solution.
 - Check fans for function.
- Energy Recovery Ventilator Inspection.
 - Replace air filters.
 - Check belts for wear.
 - Replace as necessary.
- Air Conditioning Condenser Unit (Exterior) Inspection*
 - Verify operation of fan(s).
 - Listen for unusual sounds, squealing, or noises.
 - Verify operation of compressor.
 - Listen for unusual sounds, squealing, or noises.
 - O Check coils for buildup and damage.
 - Rinse coils with water and coil cleaning solution.
 - Comb out damaged fins.
- Pump Inspection
 - O Check pumps for function.
 - Listen for unusual sounds, squealing, grinding, or other noises.
 - Lubricate.
 - Check for leaks.
 - Check pressures (if applicable)
- Ice Maker Inspection
 - Check unit for function
 - Inspect piping for leaks
 - Replace inline water filter
- Sump Pump Inspection
 - Verify function of sump pump
 - o Inspect piping for leaks/corrosion

^{*}See PM Task Sheet for more detailed information

Quarterly Planned Maintenance Inspections (cont'd)

- Water Softeners
 - Check salt level
 - o Inspect piping for leaks and corrosion

^{*}See PM Task Sheet for more detailed information

Annual/Semi Annual Planned Maintenance/Inspections

Annual/Semi Annual Planned Maintenance and Inspections focus on equipment or systems with fewer moving parts and/or less than daily usage, or certain components of larger equipment that don't require frequent attention.

Recommended Semi Annual Maintenance/Inspections:

- Variable Frequency Drives (VFD's)
 - Blow out/vacuum electronics.
- Unit Heaters*
 - Test fans for function.
 - o Blow/vacuum off coils.
- Cabinet Heaters*
 - Test fans for function (if present)
 - Blow/vacuum off coils.
 - Inspect/replace filters (if present)
 - Replace as necessary.
 - Inspect coils for buildup.
 - Clean as necessary.
 - Oil motors where applicable.
- Domestic Water Heaters*
 - Drain sediment from tank
 - Test safety valve
 - Check temperature settings
 - Check all electrical connections
- Building Exterior
 - Visually inspect all exterior surfaces for paint failure, brick/block/mortar deterioration, cracks, etc.
 - Repair deficiencies as needed.
- Parking Lots, Sidewalks, Driveways (Spring)
 - Visually inspect for winter damage from freeze/thaw cycles and snow removal processes.
 - Repair damaged as necessary.
 - Work with asphalt maintenance contractor to assess lots annually and perform recommended maintenance.
 - Crack filling.
 - Seal coating.
 - Line Striping.

^{*}See PM Task Sheet for more detailed information

Additional Notes and Recommendations

At the time this program was developed, most of the facilities major equipment/assets have been modernized and are less than 10 years of age. Proper routine preventive maintenance procedures should help ensure full or extended service lives from this vital building equipment. Observations of certain equipment and/or assets made during the development of this program include:

<u>Air Handlers</u>: Air handlers 1-3 appear to have been installed at the same time (ca. 1995), presumably at the time of a major remodel or addition. Components of air handlers include motors, coils, fans, louvers, etc. all of which are replaceable and/or serviceable. Service life of an air handler is indefinite and the need for a complete replacement of an air handler unit is quite unlikely absent a catastrophic failure or major technological advance in general equipment design. Routine inspection and basic repairs can be made by on staff maintenance personnel, but professional inspection is recommended at least annually.

Packaged Rooftop Units (RTU's): The vast majority of heating and cooling needs for the facility are provided by a network of 22 RTU's of various ages. 16 of the rooftop units were manufactured in 2014 with the rest having been manufactured in 2019 or 2020. Typical rooftop unit lifespans are in the 20 - 25 year range if properly maintained. RTU's have numerous replaceable parts which can keep the units functional for many years with proper repair and maintenance procedures. Quarterly inspection and service should be performed with professional inspection recommended annually.

<u>Boilers:</u> Two boilers provide hot water throughout the facility. These boilers were manufactured in 2019 and should provide a 25-30 year service life with proper maintenance. Basic operation inspection should be performed routinely by building staff. Annual inspection and maintenance by HVAC professional is recommended.

<u>Air Conditioner Condensing Units:</u> Four air conditioning condensing units are present. Two units serve air handlers 1 &2 on the east end, the third serves AHU 3 on the west end, and a fourth unit serves a mini split system on the newly constructed weight room area. Typical service life of an AC unit is 20 - 25 years. The units serving AHU's 1,2, and 3 were manufactured in 2014 and the unit serving the mini split was manufactured in 2019. Basic cleaning and inspection can be performed by maintenance staff with annual service by a professional contractor recommended.

<u>Water Heaters</u>: Water heaters present vary in age from 2-10 years of age. Minimal maintenance is needed beyond routine inspection, flushing, and testing. Life expectancy of most water heaters is 10-15 years depending on water quality.

<u>Generator</u>: Emergency power is provided by a single generator. The unit is in like new condition. Most generators can be maintained as long as replacement parts are available, but service life should be considered 25 - 30 years. Basic inspection, testing, and maintenance can be performed by maintenance staff, but professional testing and repairs should be made by a qualified generator maintenance company per manufacturer's recommendation.

Exhaust Fans: Numerous exhaust fans are present throughout the facility all in various condition and/or states of function at the time of the inspection. Many fans are newer units, however, there are still some older equipment in use. Complete assessment of the exhaust fan network should be completed and repairs made as necessary to assure function. If some fans are no longer required, they should be decommissioned and removed if desired. Replacement of the original legacy fans may be desired and should be planned for.

Typical life expectancy of this type of fan is 15 - 20 years. Inspection and maintenance of exhaust fans can be performed by typical maintenance staff, however repairs and/or replacement should be performed by a professional HVAC contractor.

Roof Areas: All areas of the roof appear to be in relatively new/good condition. The low slope portions of the roof fully adhered, or ballasted EPDM which has a life expectancy of 20-25 years. Routine inspections of the roof should be performed by building personnel to identify any damage, changes, or potential issues as well as remove debris and keep roof drains clear. Annual inspection by a roofing professional is recommended and any necessary repairs should be performed professionally in order to maintain any existing warranty. A steep slope area of the roof is a concealed fastener metal panel. Metal roofs like these should perform for 50+ years with little to no maintenance required. Routine inspection is recommended to identify any issues or damage. Associated sealants should be inspected annually for failure and replaced as needed.

<u>Cabinet and Unit Heaters:</u> Numerous cabinet and unit heaters are located throughout the building providing supplemental heat to vestibules and other lesser occupied spaces. These heaters have few moving parts and should be serviceable. Cabinet heater filters should be replaced routinely as dirt build up can significantly affect the performance and efficiency of the units. Routine maintenance includes cleaning/vacuuming of components and function testing. Professional service is typically only necessary if there becomes a leak in the water supply or fan motor failure.

<u>Electrical Equipment:</u> Electrical service equipment should be professionally cleaned and tested at least every 5 years to ensure proper operation. The main service equipment appeared to be modern with replaceable parts. Some older legacy equipment was observed in various locations, which may or may not have replacement parts available. Assessment of these components should be performed by an electrical contractor and cleaning/refurbishing or replacement may be considered.

<u>Other:</u> Identifying and tagging equipment listed in this maintenance program is recommended. This exercise can help all parties involved with maintenance and repair as well as assist in identifying pieces for planned replacement. Installation of ID tags with a corresponding catalog entry is very useful in any maintenance program.

INSPECTION and PM CHECKLISTS

Monthly Inspections

Quarterly Inspections

Annual/Semi-Annual Inspections

EQUIPMENT INFO AND PM TASK SHEETS

Air Handlers (1-3)

Packaged Rooftop Units (x22)

Energy Recovery Ventilators (x4)

Boilers (x2)

Air Conditioner Condensers (x4)

Exhaust Fans

Roof Areas

Water Heaters (x4)

Cabinet and Unit Heaters (Multiple)

Generator

INDEX OF EQUIPMENT DATA BY AREA

Mechanical Rooms

Rooftops

Entryways

Lower Level

Main Level

Room #	Equipment	Manufacturer	Model	Serial #	Date of Mfr.	Notes
West	AHU-3	Trane	MCCA012GAK0ABA00	K95H57704	1995	6 - 20x20x2 Filters; Belt AX46
West	Unit Heater	Trane	UHSA09058DAAF	A95F11130	1995	Blow off coil
West (Roof	AC Condenser	Trane	TTA240K400BA	1410500CTA	2014	
East	AHU-2	Trane	MCCA021GAK0ACA	K95H57353	1995	12 - 16x20x2 Filters; 2 - B40 Belts
East	AHU-2 VFD	Danfoss				Blow out 2x/year
East	AHU-1	Trane	MCCA021GAK0ACA	K95H57376	1995	12 - 16x20x2 Filters; 2 - B40 Belts
East	AHU-1 VFD	Danfoss				Blow out 2x/year
East	Pump H-3	Bell & Gosset				
East	Pump H-4	Bell & Gosset				
East	Pump H-3 VFD	Danfoss				Blow out 2x/year
East	Pump H-4 VFD	Danfoss				Blow out 2x/year
East	Pump H-1	Bell & Gosset				
East	Pump H-2	Bell & Gosset				
East	Pump H-1 VFD	Danfoss				Blow out 2x/year
East	Pump H-2 VFD	Danfoss				Blow out 2x/year
East	Boiler	P&K	CRNT3597-4123R	W645-19-15011A	2019	
East	Boiler	P&K	CRNT3597-4123R	W645-19-15010A	2019	
East	Condensate Filter					Check monthly, add media as needed
East (Roof)	AC Condenser 1	Trane	RAUJC304BC03	C14G04617	2014	
East (Roof)	AC Conderser 2	Trane	RAUJC304BC03	C14F03698	2014	

Room #	Equipment	Manufacturer	Model	Serial #	Date of Mfr.	Notes
Roof	RTU-1	Trane	YHD240F4RHA	142510952D	2014	4 - 16x20x2, 8 - 20x20x2; 1-BX81 Belt
Roof	RTU-2	Trane	YHD240F4RHA	142510898D	2014	4 - 16x20x2, 8 - 20x20x2; 1-BX81 Belt
Roof	RTU-3	Trane	YHD240F4RHA	142510916D	2014	4 - 16x20x2, 8 - 20x20x2; 1-BX81 Belt
Roof	RTU-4	Trane	YHC120E4RHA0Z	142611055L	2014	3 - 20x25x2, 3 - 20x20x2; No Belt
Roof	RTU-5	Trane	YHD240F4RHA	142510934D	2014	4 - 16x20x2, 8 - 20x20x2; 1-BX81 Belt
Roof	RTU-6	Trane	YHC120E4RHA0Z	142611324L	2014	3 - 20x25x2, 3 - 20x20x2; No Belt
Roof	RTU-7	Trane	YHD180F4RHA03D	142510988D	2014	4 - 16x20x2, 8 - 20x20x2; 1-B71 Belt
Roof	RTU-8	Trane	YHD150F4RVB04D	142511014D	2014	4 - 20x25x2, 4 - 20x20x2; 1-BX68 Belt
Roof	RTU-9	Trane	YHD150F4RVB04D	142510911D	2014	4 - 20x25x2, 4 - 20x20x2; 1-BX68 Belt
Roof	RTU-10	Trane	YHD180F4RHA03D	142511005D	2014	4 - 16x20x2, 8 - 20x20x2; 1-B71 Belt
Roof	RTU-11	Trane	YHD150F4RVB04D	142510998D	2014	4 - 20x25x2, 4 - 20x20x2; 1-BX68 Belt
Roof	RTU-12	Trane	YHC120E4RHA0Z	142611077L	2014	3 - 20x25x2, 3 - 20x20x2; No Belt
Roof	RTU-13	Trane	YHC120E4RHA0Z	142611121L	2014	3 - 20x25x2, 3 - 20x20x2; No Belt
Roof	RTU-14	Trane	YHC120E4RHA0Z	142611099L	2014	3 - 20x25x2, 3 - 20x20x2; No Belt
Roof	RTU-15	Trane	YHD150F4RVB04D	142510893D	2014	4 - 20x25x2, 4 - 20x20x2; 1-BX68 Belt
Roof	RTU-16	Trane	YHC048F4RHAD201A	142610522L	2014	4 - 16x25x2; 1-AX29 Belt
Roof	RTU-17	Trane	YHC120F4RZA0PKEE	195210806L	2019	3 - 20x25x2, 3 - 20x20x2; No Belt
Roof	RTU-18	Trane	YHC120F4RZA0PKEE	195213034L	2019	3 - 20x25x2, 3 - 20x20x2; No Belt
Roof	RTU-19	Trane	YHC060F4ZA1TK0E	19520784C	2019	4 - 16x25x2; No Belt
Roof	RTU-20	Trane	YHC092F4RZA0PK6E	200212412L	2020	4 - 20x25x2; No Belt
Roof	RTU-21	Trane	YHD180G4RUB0YKHE1	200210223D	2020	4 - 16x20x2, 8 - 20x20x2; 1-BX71 Belt
Roof	RTU-23	Trane	YHC092F4RYA0PK6E	200212408L	2020	4 - 20x25x2; No Belt
Roof	ERV-1	Renew Aire	HE4XRT	G146491C	2014	8 - 20x20x2; 2-A44 Belts
Roof	ERV-2	Renew Aire	HE4XRT	G147478C	2014	8 - 20x20x2; 2-A44 Belts
Roof	ERV-3	Renew Aire	HE3XRT	G146493C	2014	6 - 20x20x2; A-39 & A-38 Belts
Roof	ERV-4	Renew Aire	HE4XRT	G146493C	2014	8 - 20x20x2; 2-A44 Belts
Roof (WR)	Mini Split Condensor	Mitsubishi	PUYA18NKA7	99U13637D	2019	
Roof (WR)	Exhaust Fan					Direct Drive
Roof	Exhaust Fan	Cook	36R8B			Belt Drive
Roof	Exhaust Fan	Cook	15C1B			Belt Drive
Roof	Exhaust Fan	Cook	15R2B			Belt Drive

Roof	Exhaust Fan	Greenheck	USF-13-5-B1-50-01-01	16214012 20B	2020	Direct Drive
Roof	Exhaust Fan	Greenheck	CUE-099-A	13887011 - 1410	2014	Direct Drive
Roof	Exhaust Fan	Greenheck	G-080-VG-X	16178142-20B	2020	Direct Drive
Roof	Exhaust Fan	Greenheck	CUE-080-VG-X	16866388-20G	2020	Direct Drive
Roof	Exhaust Fan	Greenheck	G-060-VG-X	16178177-20B	2020	Direct Drive
Roof	Exhaust Fan	Greenheck	G-090-VG-X	16178188-20B	2020	Direct Drive
Roof	Exhaust Fan	Greenheck	G-103-VG-4-X	16178172-20B	2020	Direct Drive
Roof	Exhaust Fan	Greenheck	G-080-VG-X	16178180-20B	2020	Direct Drive
Roof	Exhaust Fan	Cook	DX7B			Belt Drive
Roof	Exhaust Fan	Cook	DX7B			Belt Drive
Roof	Exhaust Fan	Cook	DX10B			Belt Drive
Roof	Exhaust Fan	Cook	DX7B			Belt Drive
Roof	Exhaust Fan	Cook	DX7B			Belt Drive
Roof	Exhaust Fan	Cook	DX7B			Belt Drive
Roof	Exhaust Fan	Greenheck	CUE-099-VG-4-X	16866386-20G	2020	Direct Drive
Roof	Exhaust Fan	Greenheck	G-099-VG-4-X	17112861-201	2020	Direct Drive
Roof	Refrigeration Unit	Bohn	BZT008M6BF	T19K06784	?	
Roof	Refrigeration Unit	?	?	?	?	

Room #	Equipment	Manufacturer	Model	Serial #	Date of Mfr.	Notes
H-5	Cabinet Heater	Trane				Filters
H-5	Cabinet Heater	Trane				Filters
H-6	Cabinet Heater	Trane				Filters
H-7	Cabinet Heater	Trane				Filters
H-8	Unit Heater	Trane	UHSA09058DAAE	A95F11181	1995	Blow Off
H-8	Exhaust Fan					Wall Mount
H-9	Cabinet Heater	Trane				Filters
H-20	Cabinet Heater	Trane				Filters
H-21	Cabinet Heater	Trane				Filters
H-22	Cabinet Heater	Trane				Filters
H-23	Cabinet Heater					Ceiling Mount (CUH-13)

Room #	Equipment	Manufacturer	Model	Serial #	Date of Mfr.	Notes
B0024A	Water Main/Meter					
B0024A	Water Softener	Culligan	1021125			Routine Maintenance by Culligan?
B0024A	Water Softener	Culligan	1021125			Routine Maintenance by Culligan?
B0007	Transformer	Sorgel	45 kva	X63227-1	Unknown	30 + years old?
B0005	Sump Pumps	Weill			2020	Control in off position
B0005	Transformer	Square D			2020	
B0005	Breaker Panels	Square D			2020	
B0005	Lighting Control	Watt Stopper			2020	
B0005	EM Lighting Inverter	Isolite E3 mac			2020	
B0005	Fan Control	Greenheck				
B0010	Dryer Exhaust Fan	Fantech	DEDPV-705	1005119424	2020	
B0010	Dryer Exhaust Fan	Fantech	DEDPV-705	1005119424	2020	
B0011	Ice Maker	Spartan	SMIM500 HC		2020	Filter
B0019	Water Heater	Bradford White	EF100250E3N2	TG43723224	2019	
B0019	Water Heater	Bradford White	EF100250E3N2	TG43723223	2019	
B0019	Water Heater	Bradford White	EF100250E3N2	TG43723221	2019	
B0019	Transfer Switch	Asco	D03ATSA30104NG0C	1820503 RE		
B0019	Electrical Service					

Room #	Equipment	Manufacturer	Model	Serial #	Date of Mfr.	Notes
1018	Alarm Panel					
1019	Transformer	Square D	90 KVA	X60895		
1019	Alarm Panel	Honeywell				
1022	Ice Maker	Manitowoc				Filter
1022	Water Heater	A.O. Smith	FCG 75 300	1104A010391	2011	
1022	Water Softener	Marlo			2013	Not in Use
1027	Exhaust Fan	Greenheck				Direct Drive; Wall Mount
1027 Rec.	Unit Heater	Trane	UHSA23058DAAJ	A95F11304	1995	Blow Off
1028	Transformer	Square D	75 KVA			
1028	Unit Heater	Trane	UHSA09058DAAE	A95F11178	1995	Blow Off
1029	Exhaust Fan	Greenheck				Direct Drive; Wall Mount
1032	Exhaust Fan	Greenheck				Direct Drive; Wall Mount
1034	Exhaust Fan					Multiple Roof Mounted (Home Ec.)
1035	Exhaust Fan	Greenheck				Fume Cabinet - Roof Mounted
1035	Eye Wash Station	Bradley				Test monthly for function
1041	Unit Heater	Trane	UHSB0481TAA101	F20B30831	2020	Blow Off
1047	Electrical Equipment					Various - Cleaning/Testing
1048	Exhaust Fan	Fantech	FG12XL	1005392577		Hood Vent - Inline Fan
1048	Grease Trap	Schier				Maintain as needed
1048A	Unit Heater	Trane	UHSB0481TAA101	F20B30832	2020	Blow Off
1049	Exhaust Fan					Direct Drive; Wall Mount
1049	Exhaust Fan					Wall Mount - Ground Draw (abandoned)
1049	Exhaust Fan					Wall Mount - CO/Exhaust
1054	Dust Collector	AGET	30SN90-01	30-9936		Routine Cleaning/Maintenance
1054	Unit Heater	Trane	UHSB0481TAA101	F20B30833	2020	Blow Off
1056B	Sump Pump	Goulds	EP0511F		2013	Alarm
1071	Controls Computer					
	Alarm Panel	Honeywell				
	Transformers	-, -				
M-2013		ITE				Legacy Equipment (Out of Production)

School District of Manawa

Planned Maintenar	nce Task Sheet			Facility: Middle/High School								Location E. Mech (Roof Acces				
					AH	U-1										
Manufacturer:	Trane	Mode	l Number:		MCCA	021GAK	(OACA		Serial:	K95H5	7376	Year of	Mfr.:		1995	
								_								
Belts:	2 - B40	Filters	s:		12 - 16	x20x2										
			<u> </u>		ī				-							
Task				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Disconnects labele	d and accessible															
Equipment locked	and tagged out				ļ											
Filters cleaned and	l or changed				ļ											
Evaporator coil clea	an															
Drain pan and drai	n line clean															
Blower fan belt tigh	nt, checked for wear a	and alignment	t													
Blower fan bearing	s quiet, clean and lub	oricated														
Motor free of exces	ssive heat or noise															
Squirrel cages, clea	an and balanced															
Equipment panels	secure															
Frequency Drive co	ooling fan and filter cl	ean														
Condenser coil ass	sociated with unit clea	an														
Check condenser of	coil for signs of leaks	such as oil														
No unusual noise o	coming from condens	er fan motors	5													
Condenser fan blad	des secure and intact	t														
Adequate supply of	f spare parts															
Comments:					•			•	•	•					•	

Planned Maintena	nce Task Sheet		Facilit	Facility: Middle/High School							Location E. Mech (Roof Acces				
				AH	U-2										
Manufacturer:	Trane	Model Nui	nber:	MCCA	021GA	(0ACA		Serial:	K95H5	7353	Year of	Mfr.:		1995	
Belts:	2 - B40	Filters:		12 - 16	5x20x2										
Took			lan	l Eab	Mor		Mov	lum	11	A	Con	Oct	Nov	Dag	
Task			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Disconnects labele				1											
Equipment locked									-						
Filters cleaned and	•														
Evaporator coil cle															
Drain pan and dra								1	<u> </u>	1					
	ht, checked for wear														
	gs quiet, clean and lul	bricated													
	ssive heat or noise														
Squirrel cages, cle				-											
Equipment panels									<u> </u>	1					
	ooling fan and filter c														
	sociated with unit clea														
Check condenser	coil for signs of leaks	such as oil													
No unusual noise	coming from condens	ser fan motors													
Condenser fan bla	des secure and intac	t													
Adequate supply o	of spare parts														
Comments:															

Planned Maintenar	nce Task Sheet		Facilit	y:	Middle	/High S	chool			Location	on	W. Me	ch (Roo	f Acces
				AH	IU-3									
Manufacturer:	Trane	Model Nur	nber:	MCCA	.012GA	(0ABA0	0E	Serial:	K95H5	7704	Year of	Mfr.:		1995
							_							
Belts:	AX46	Filters:		6 - 20x	(20x2									
Task			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Disconnects labele	ed and accessible					1 1								
Equipment locked														
Filters cleaned and														
Evaporator coil cle	an an													
Drain pan and drai	n line clean													
Blower fan belt tigh	nt, checked for wear a	and alignment												
Blower fan bearing	ıs quiet, clean and lul	oricated												
Motor free of exces	ssive heat or noise													
Squirrel cages, cle	an and balanced													
Equipment panels	secure													
Frequency Drive co	ooling fan and filter c	lean												
Condenser coil ass	sociated with unit clea	an												
Check condenser	coil for signs of leaks	such as oil												
No unusual noise o	coming from condens	er fan motors												
Condenser fan bla	des secure and intac	t												
Adequate supply o	f spare parts													
Comments:														

School District of Manawa

Planned Maintenan	ice Task Sheet	Fa	cility: Mi	ddle/High School	Lo	cation	Main Roof	
			RTU-	1				
Manufacturer:	Trane	Model Number:	YHD240F	4RHA	Serial: 14251095	2D Year o	of Mfr.:	2014

Belts: BX81 Filters: 4 - 16x20x2, 8 - 20x20x2

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												
Clean drain pan and condensation trap												
Check wiring and disconnects for secureness												
Check/replace filters												
Check louvers for operation and lube as necessary												
Check heat exchanger for cracks or deterioration												
Check and clean burners as necessary												
Inspect flame sensor and flame roll out switch												
Check pilot assembly and clean/adjust as necessary												
Check all panels for secureness and function												
Repair/Replacement parts on hand												
Comments:				_	_		_		_			

Planned Maintenance Task Sheet Facility: Middle/H						Location	on Main Roof	
				RTU-2				
Manufacturer:	Trane	Model Numbe	r: Yl	HD240F4RHA	Serial: 142510)898D	Year of Mfr.:	2014

Belts: BX81 Filters: 4 - 16x20x2, 8 - 20x20x2

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												
Clean drain pan and condensation trap												
Check wiring and disconnects for secureness												
Check/replace filters												
Check louvers for operation and lube as necessary												
Check heat exchanger for cracks or deterioration												
Check and clean burners as necessary												
Inspect flame sensor and flame roll out switch												
Check pilot assembly and clean/adjust as necessary												
Check all panels for secureness and function												
												<u> </u>
Repair/Replacement parts on hand												
Comments:	Į.											

Planned Maintenance Task Sheet	Facility:	Middle/High School	Location	Main Roof	
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			RTU-3		
Manufacturer:	Trane	Model Number:	YHD240F4RHA	Serial: 142510916D Year of Mfr.:	2014

Belts: BX81 Filters: 4 - 16x20x2, 8 - 20x20x2

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												
Clean drain pan and condensation trap												
Check wiring and disconnects for secureness												
Check/replace filters												
Check louvers for operation and lube as necessary												
Check heat exchanger for cracks or deterioration												
Check and clean burners as necessary												
Inspect flame sensor and flame roll out switch												
Check pilot assembly and clean/adjust as necessary												
Check all panels for secureness and function												
Repair/Replacement parts on hand												
Comments:	•	•							•			

Planned Maintenance Task Sheet	Facility:	Middle/High School	Location	Main Roof
	RT	U-4		

Manufacturer:	Trane	Model Number:	YHC120E4RHA0Z	Serial: 142611055L	Year of Mfr.:	2014
Belts:	N/A	Filters: 3 - 20x25x2,	3 - 20x20x2			

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												
Clean drain pan and condensation trap												
Check wiring and disconnects for secureness												
Check/replace filters												
Check louvers for operation and lube as necessary												
Check heat exchanger for cracks or deterioration												
Check and clean burners as necessary												
Inspect flame sensor and flame roll out switch												
Check pilot assembly and clean/adjust as necessary												
Check all panels for secureness and function												
Repair/Replacement parts on hand												
Comments:		_			-				_			

Planned Maintenance Task Sheet			Facility:	Middle/High School		Locatio	on Main Roof				
	RTU-5										
Manufacturer:	Trane	Model Number	r: YHD	240F4RHA	Serial: 142510)934D	Year of Mfr.:	2014			

Belts: BX81 Filters: 4 - 16x20x2, 8 - 20x20x2

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												
Clean drain pan and condensation trap												
Check wiring and disconnects for secureness												
Check/replace filters												
Check louvers for operation and lube as necessary												
Check heat exchanger for cracks or deterioration												
Check and clean burners as necessary												
Inspect flame sensor and flame roll out switch												
Check pilot assembly and clean/adjust as necessary												
Check all panels for secureness and function												
												<u> </u>
Repair/Replacement parts on hand												
Comments:												

Planned Maintena	nce Task Sheet	Fac	cility: Middle/High	School	Location	Main Roof					
	RTU-6										
Manufacturer:	Trane	Model Number:	YHC120E4RHA0Z	Serial: 14261	.1324L Y	ear of Mfr.:	2014				

l =		2 20 25 2 2 20 20 2
Belts:	N/A	Filters: 3 - 20x25x2, 3 - 20x20x2
I Duito.	13/7	I IIICIS. S ZONZONZ, S ZONZONZ

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												
Clean drain pan and condensation trap												
Check wiring and disconnects for secureness												
Check/replace filters												
Check louvers for operation and lube as necessary												
Check heat exchanger for cracks or deterioration												
Check and clean burners as necessary												
Inspect flame sensor and flame roll out switch												
Check pilot assembly and clean/adjust as necessary												
Check all panels for secureness and function												
Repair/Replacement parts on hand												
Comments:	Į		1	<u> </u>				1	l			1
Commence.												

Planned Maintenance Task Sheet			acility:	Middle/High School		Locatio	on Main Roof			
RTU-7										
Manufacturer:	Trane	Model Number:	ΥH	D180F4RHA03D	Serial: 142510)988D	Year of Mfr.:	2014		

Belts:	B71	Filters: 4 - 16x20x2, 8 - 20x20x2
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Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												
Clean drain pan and condensation trap												
Check wiring and disconnects for secureness												
Check/replace filters												
Check louvers for operation and lube as necessary												
Check heat exchanger for cracks or deterioration												
Check and clean burners as necessary												
Inspect flame sensor and flame roll out switch												
Check pilot assembly and clean/adjust as necessary												
Check all panels for secureness and function												
Repair/Replacement parts on hand												
Comments:												

Planned Maintenance Task Sheet			cility:	Middle/High School		Location	on Main Roof		
RTU-8									
Manufacturer:	Trane	Model Number:	YHD1	50F4RVB04D	Serial: 14251	1014D	Year of Mfr.:	2014	

Belts: BX68 Filters:	: 4 - 20x25x2, 4 - 20x20x2
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Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												
Clean drain pan and condensation trap												
Check wiring and disconnects for secureness												
Check/replace filters												
Check louvers for operation and lube as necessary												
Check heat exchanger for cracks or deterioration												
Check and clean burners as necessary												
Inspect flame sensor and flame roll out switch												
Check pilot assembly and clean/adjust as necessary												
Check all panels for secureness and function												
Repair/Replacement parts on hand												
Comments:												

Planned Maintena	Facility	y:	Middle	High S	School			Locati	on	Main F	Roof			
RTU-9														
Manufacturer:	Trane	Model Numbe	er:	YHD1	50F4R\	/B04D		Serial:	14251	.0911D	Year o	f Mfr.:		2014
							_							
Belts:	BX68	Filters: 4 - 20x	25x2, 4	1 - 20x2	0x2									
		_					_	_		_				_
Task			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

	 -		 			
Check and clean condesner coils						
Check and lube condensing fan motor						
Check belts and lubricate blower motor						
Check and lube blower bearings						
Check squirrel chage and shaft						
Clean drain pan and condensation trap						
Check wiring and disconnects for secureness						
Check/replace filters						
Check louvers for operation and lube as necessary						
Check heat exchanger for cracks or deterioration						
Check and clean burners as necessary						
Inspect flame sensor and flame roll out switch						
Check pilot assembly and clean/adjust as necessary						
Check all panels for secureness and function						
Repair/Replacement parts on hand						
Comments:						

Planned Maintena	nce Task Sheet	F	acility:	Middle/High School	Loc	cation	Main Roof	
			RT	U-10				
Manufacturer:	Trane	Model Number:	YHD1	80F4RHA03D	Serial: 14251100	5D Year o	of Mfr.:	2014

Belts:	B71	Filters: 4 - 16x20x2, 8 - 20x20x2

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												

Check and lube condensing fan motor	T						
Check belts and lubricate blower motor							
Check and lube blower bearings							
Check squirrel chage and shaft							
Clean drain pan and condensation trap							
Check wiring and disconnects for secureness							
Check/replace filters							
Check louvers for operation and lube as necessary							
Check heat exchanger for cracks or deterioration							
Check and clean burners as necessary							
Inspect flame sensor and flame roll out switch							
Check pilot assembly and clean/adjust as necessary							
Check all panels for secureness and function							
Repair/Replacement parts on hand							
Comments:							

Planned Maintena	nce Task Sheet	Fac	cility: Middle/High S	chool	Location	Main Roof	
			RTU-11				
Manufacturer:	Trane	Model Number:	YHD150F4RVB04D	Serial: 14251	0998D Y	ear of Mfr.:	2014

Belts:	BX68	Filters: 4 - 20x25x2, 4 - 20x20x2
I DEILS.	DAUO	FIILEIS. 4 - 20x23x2, 4 - 20x20x2

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												

Check belts and lubricate blower motor						
Check and lube blower bearings						
Check squirrel chage and shaft						
Clean drain pan and condensation trap						
Check wiring and disconnects for secureness						
Check/replace filters						
Check louvers for operation and lube as necessary						
Check heat exchanger for cracks or deterioration						
Check and clean burners as necessary						
Inspect flame sensor and flame roll out switch						
Check pilot assembly and clean/adjust as necessary						
Check all panels for secureness and function						
Repair/Replacement parts on hand						
Comments:		·				

Planned Maintena	ance Task Sheet	Faci	lity: Middle/High	School	Location	n Main Roof	
			RTU-12				
Manufacturer:	Trane	Model Number:	YHC120E4RHA0Z	Serial: 14261	L1077L Y	ear of Mfr.:	2014
				_			
Belts:	N/A	Filters: 3 - 20x25x2	, 3 - 20x20x2				

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												

Check and lube blower bearings						
Check squirrel chage and shaft						
Clean drain pan and condensation trap						
Check wiring and disconnects for secureness						
Check/replace filters						
Check louvers for operation and lube as necessary						
Check heat exchanger for cracks or deterioration						
Check and clean burners as necessary						
Inspect flame sensor and flame roll out switch						
Check pilot assembly and clean/adjust as necessary						
Check all panels for secureness and function						
Repair/Replacement parts on hand						
Comments:						

Planned Maintenar	nce Task Sheet	F	acility:	Middle/High School		Locatio	on Main Roof	
			R	ΓU-13				
Manufacturer:	Trane	Model Number	: YHO	C120E4RHA0Z	Serial: 142611	l121L	Year of Mfr.:	2014

Belts: N/A Filters: 3 - 20x25x	2, 3 - 20x20x2
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Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												

Check squirrel chage and shaft						
Clean drain pan and condensation trap						
Check wiring and disconnects for secureness						
Check/replace filters						
Check louvers for operation and lube as necessary						
Check heat exchanger for cracks or deterioration						
Check and clean burners as necessary						
Inspect flame sensor and flame roll out switch						
Check pilot assembly and clean/adjust as necessary						
Check all panels for secureness and function						
Repair/Replacement parts on hand						
Comments:						
Communic.						

Planned Maintenar	ice Task Sheet	Fac	ility: Middle/High S	chool	Location	Main Roof			
RTU-14									
Manufacturer:	Trane	Model Number:	YHC120E4RHA0Z	Serial: 14261:	1099L Yea	ar of Mfr.:	2014		

Belts:	N/A	Filters: 3 - 20x25x2, 3 - 20x20x2
DCIG.	1 1// 1	I IIICIG. S ZONZONZ, S ZONZONZ

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												

Clean drain pan and condensation trap						
Check wiring and disconnects for secureness						
Check/replace filters						
Check louvers for operation and lube as necessary						
Check heat exchanger for cracks or deterioration						
Check and clean burners as necessary						
Inspect flame sensor and flame roll out switch						
Check pilot assembly and clean/adjust as necessary						
Check all panels for secureness and function						
Repair/Replacement parts on hand						
Comments:						

Planned Maintenar	nce Task Sheet		Facility:	Middle/High School	L	Locatio	n Main Roof	
			RT	J-15				
Manufacturer:	Trane	Model Numbe	r: YHD1	50F4RVB04D	Serial: 142510	893D	Year of Mfr.:	2014

Belts:	BX68	Filters: 4 - 20x25x2, 4 - 20x20x2
Dono.	DAGO	I IIICIO. I ZONZONZ) I ZONZONZ

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												
Clean drain pan and condensation trap												

Check wiring and disconnects for secureness						
Check/replace filters						
Check louvers for operation and lube as necessary						
Check heat exchanger for cracks or deterioration						
Check and clean burners as necessary						
Inspect flame sensor and flame roll out switch						
Check pilot assembly and clean/adjust as necessary						
Check all panels for secureness and function						
Repair/Replacement parts on hand						
Comments:						

Planned Maintenar	ice Task Sheet	Facility:	Middle/High School		Locatio	n Main Roof						
RTU-16												
Manufacturer:	Trane	Model Numbe	r: YHC0	48F4RHAD201A	Serial: 142610	522L	Year of Mfr.:	2014				

Belts:	AX29	Filters: 4 - 16x25x2
DCIG.	/ / / 20	I IIICIS. T IONESNE

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												
Clean drain pan and condensation trap												
Check wiring and disconnects for secureness												

Check/replace filters						
Check louvers for operation and lube as necessary						
Check heat exchanger for cracks or deterioration						
Check and clean burners as necessary						
Inspect flame sensor and flame roll out switch						
Check pilot assembly and clean/adjust as necessary						
Check all panels for secureness and function						
Repair/Replacement parts on hand						
Comments:						

Planned Maintenar	nce Task Sheet		Facility:	Middle/High School		Locatio	n Main Roof					
RTU-17												
Manufacturer:	Trane	Model Number	r: YHC1	20F4RZA0PKEE	Serial: 195210	0806L	Year of Mfr.:	2019				

	Belts:	N/A	Filters: 3 - 20x25x2, 3 - 20x20x2
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Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												
Clean drain pan and condensation trap												
Check wiring and disconnects for secureness												
Check/replace filters												

Check louvers for operation and lube as necessary						
Check heat exchanger for cracks or deterioration						
Check and clean burners as necessary						
Inspect flame sensor and flame roll out switch						
Check pilot assembly and clean/adjust as necessary						
Check all panels for secureness and function						
Repair/Replacement parts on hand						
Comments:						

Planned Maintena	nce Task Sheet		Facility:	Middle/High School	L	Locatio	on Main Roof					
RTU-18												
Manufacturer:	Trane	Model Numbe	r: YH	C120F4RZA0PKEE	Serial: 195213	034L	Year of Mfr.:	2019				

1_			
ΙB	selts:	N/A	Filters: 3 - 20x25x2, 3 - 20x20x2

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												
Clean drain pan and condensation trap												
Check wiring and disconnects for secureness												
Check/replace filters												
Check louvers for operation and lube as necessary												

Check heat exchanger for cracks or deterioration						
Check and clean burners as necessary						
Inspect flame sensor and flame roll out switch						
Check pilot assembly and clean/adjust as necessary						
Check all panels for secureness and function						
Repair/Replacement parts on hand						
Comments:						

Planned Maintena	ance Task Sheet	Fa	acility:	Middle/High S	School		Locati	ion Main R	Roof
			R1	ΓU-19					
Manufacturer:	Trane	Model Number:	YHC	060F4ZA1TK0E		Serial: 1952	0784C	Year of Mfr.:	2019
Belts:	N/A	Filters: 4 - 16x25	x2						

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												
Clean drain pan and condensation trap												
Check wiring and disconnects for secureness												
Check/replace filters												
Check louvers for operation and lube as necessary												
Check heat exchanger for cracks or deterioration												

Check and clean burners as necessary						
Inspect flame sensor and flame roll out switch						
Check pilot assembly and clean/adjust as necessary						
Check all panels for secureness and function						
Repair/Replacement parts on hand						
Comments:						

Manawa School District+6628:660

Planned Maintena	ance Task Sheet	Fa	acility:	Middle/High School		Locatio	on Main Roof				
RTU-20											
Manufacturer:	Trane	Model Number:	YHC	092F4RZA0PK6E	Serial: 200212	2412L	Year of Mfr.:	2020			

Belts: N/A	Filters: 4 - 20x25x2
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Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												
Clean drain pan and condensation trap												
Check wiring and disconnects for secureness												
Check/replace filters												
Check louvers for operation and lube as necessary												
Check heat exchanger for cracks or deterioration												
Check and clean burners as necessary												

Inspect flame sensor and flame roll out switch						
Check pilot assembly and clean/adjust as necessary						
Check all panels for secureness and function						
Repair/Replacement parts on hand						
Comments:						

Planned Maintenar	nce Task Sheet	F	Facility:	Middle/High School	L	ocation	Main Roof				
RTU-21											
Manufacturer:	Trane	Model Number	: YHE	D180G4RUB0YKHE1C	Serial: 2002102	223D Y	ear of Mfr.:	2020			

Belts:	BX71	Filters: 4 - 16x20x2, 8 -20x20x2
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Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												
Clean drain pan and condensation trap												
Check wiring and disconnects for secureness												
Check/replace filters												
Check louvers for operation and lube as necessary												
Check heat exchanger for cracks or deterioration												
Check and clean burners as necessary												
Inspect flame sensor and flame roll out switch												

Check pilot assembly and clean/adjust as necessary							
Check all panels for secureness and function							
			-				
Repair/Replacement parts on hand							
Comments:							

Planned Mainten	ance Task Sheet	F	acility:	Middle/High School		Location	on Main Roof				
RTU-23											
Manufacturer:	Trane	Model Number	: YHC	C092F4RZA0PK6E	Serial: 200212	2408L	Year of Mfr.:	2020			

l =		1 4 30 35 3
Belts:	N/A	Filters: 4 - 20x25x2
ו טכונס.	11//	11 111013. 7 2012312

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Check and clean condesner coils												
Check and lube condensing fan motor												
Check belts and lubricate blower motor												
Check and lube blower bearings												
Check squirrel chage and shaft												
Clean drain pan and condensation trap												
Check wiring and disconnects for secureness												
Check/replace filters												
Check louvers for operation and lube as necessary												
Check heat exchanger for cracks or deterioration												
Check and clean burners as necessary												
Inspect flame sensor and flame roll out switch												
Check pilot assembly and clean/adjust as necessary												

Check all panels for secureness and function						
Repair/Replacement parts on hand						
Comments:						

School District of Manawa

Planned Maintenance Task Sheet			cility:	Middle/High School	I	Location	Main Roof			
ERV-1										
Manufacturer:	Renew Aire	Model Number:	HE4XR	Т	Serial: G14649	1C Year	of Mfr.:	2014		

Belts: 2 - A44 Filters: 8 - 20x20x2

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Change air filters (Quarterly)												
Check/change belts (Semi-Annually)												
Clean heat transfer media per mfr. Spec. (Semi-Annually												
Grease motors and bearings if required (Annually)												
Repair/Replacement parts on hand												
Comments:		•	•	•	•		•	•	•			•

Planned Maintenance Task Sheet			Facility:	Middle/High School		Locatio	on Main Roof					
	ERV-2											
Manufacturer: Renew Aire Model Numb			:: HE	4XRT	Serial: G14747	78C	Year of Mfr.:	2014				

Belts: 2 - A44 Filters: 8 - 20x20x2

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Change air filters (Quarterly)												
Check/change belts (Semi-Annually)												
Clean heat transfer media per mfr. Spec. (Semi-Annually												
Grease motors and bearings if required (Annually)												
												<u> </u>
												<u> </u>
												<u> </u>
												<u> </u>
												<u> </u>
												<u> </u>
Repair/Replacement parts on hand												
Comments:												

Planned Maintenance Task Sheet	Facility:	Middle/High School	Location	Main Roof	
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			ERV-3			
Manufacturer:	Renew Aire	Model Number:	HE3XRT	Serial: G146493C	Year of Mfr.:	2014

Belts: A39 & A38 Filters: 6 - 20x20x2

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Change air filters (Quarterly)												
Check/change belts (Semi-Annually)												
Clean heat transfer media per mfr. Spec. (Semi-Annually												
Grease motors and bearings if required (Annually)												
Repair/Replacement parts on hand												
Comments:												

Planned Maintenance Task Sheet	Facility:	Middle/High School	Location	Main Roof
	EF	RV-4		

Manufacturer:	Renew Aire	Model Number:	HE4XRT	Serial:	Year of Mfr.:	2014
Belts:	2 - A44	Filters: 8 - 20x20x2				

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Change air filters (Quarterly)												
Check/change belts (Semi-Annually)												
Clean heat transfer media per mfr. Spec. (Semi-Annually												
Grease motors and bearings if required (Annually)												
Repair/Replacement parts on hand												
Comments:												
	_	_	_			_		_		-	_	_

School District of Manawa

Planned Maintenance Task Sheet			Facility:	Middle/High School		Location	E. Mech (Roo	of Access		
Boiler 1										
Manufacturer:	PK	Model Numbe	er: CRN	3597-4123R	Serial: W645-	-19-15010A	Year of Mfr.	2019		

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Disconnects labeled and accessible												
Equipment locked and tagged out												
Inspect venting for condition and signs of leakage												
Visually check main burner flame, should be blue with slight yellow ti												
Inspect condensate lines												
Inspect condensate neutralizer if installed, replace lime stone as nee												
Inspect temperature/pressure gages for proper readings												
Inspect boiler jacket for damage and tightness of panels												
Inspect hot water supply and return piping for leaks and condition												
Inspect pressure relief valve												
Inspect all pumps associated with system for operation and leaks												
Check pressure tank for proper fill level												
Check system pressure gage for proper pressure reading												
Clean heat exchanger												
Clean burners												
												-
Adequate supply of spare parts												<u></u>
Comments:												

Planned Maintenance Task Sheet			Facility: Middle/I	ligh School	Location	n E. Mech (R	Roof Acces					
	Boiler 2											
Manufacturer:	PK	Model Numbe	r: CRNT3597-412	3R Seria	al: W645-19-1501:	1A Year of Mfr	. 2019					

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Disconnects labeled and accessible												
Equipment locked and tagged out												
Inspect venting for condition and signs of leakage												
Visually check main burner flame, should be blue with slight yellow t	i											
Inspect condensate lines												
Inspect condensate neutralizer if installed, replace lime stone as nee												
Inspect temperature/pressure gages for proper readings												
Inspect boiler jacket for damage and tightness of panels												
Inspect hot water supply and return piping for leaks and condition												
Inspect pressure relief valve												
Inspect all pumps associated with system for operation and leaks												
Check pressure tank for proper fill level												
Check system pressure gage for proper pressure reading												
Clean heat exchanger												
Clean burners												
Adequate supply of spare parts												
Comments:	•		•	•	•	•			•	•		

School District of Manawa

Planned Maintenar	nce Task Sh	heet		Facility:	: Middle/High S	chool	Location	n E. Mech (Ro	of)	
AC Condenser 1										
Manufacturer:	Trane I	Model #:	RAUJC304BC	03		Serial: C14G04617		Year of Mfr.:	2014	

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Remove debris from air screens and coils	-	102		7.10.		0 0		7.0.9	336			
Clean coils with cleaning solution and rinse												
Straighten any damaged fins with comb												
Inspect electrical/wiring connections for secureness												
Inspect mounting for secureness												
Inspect and clean interior of unit												
Inspect refrigerant lines for wear or damage												
Check fan(s) for function and damage/wear												
Check for unusual sounds/noises/vibrations												
Adequate supply of spare parts												
Comments:				•								

Planned Maintena	ance Task Sheet	Facility:	Middle/High School	Location	E. Mech (Ro	of)				
AC Condenser 2										
Manufacturer:	Trane Model #:	RAUJC304BC03	Serial: C14F03698	Year	r of Mfr.:	2014				

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Remove debris from air screens and coils												
Clean coils with cleaning solution and rinse												
Straighten any damaged fins with comb												
Inspect electrical/wiring connections for secureness												
Inspect mounting for secureness												
Inspect and clean interior of unit												
Inspect refrigerant lines for wear or damage												
Check fan(s) for function and damage/wear												
Check for unusual sounds/noises/vibrations												
Adequate supply of spare parts												
Comments:												

Planned Maintenance Task Sheet	Facility:	Middle/High School	Location	W. Mech (Roof)	
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		AC Condenser 3			
Manufacturer:	Trane Model #:	TTA240K400BA	Serial: 1410500CTA	Year of Mfr.:	2014

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Remove debris from air screens and coils												
Clean coils with cleaning solution and rinse												
Straighten any damaged fins with comb												
Inspect electrical/wiring connections for secureness												
Inspect mounting for secureness												
Inspect and clean interior of unit												
Inspect refrigerant lines for wear or damage												
Check fan(s) for function and damage/wear												
Check for unusual sounds/noises/vibrations												
Adequate supply of spare parts												
Comments:	•											

Planned Maintenance Task Sheet	Facility:	Middle/High School	Location	Weight Room Roof
		sa		

Manufacturer: Mitsubishi	Model #:	PUYA18NKA7	Serial: 99U13637D	Year of Mfr.:	2019

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Remove debris from air screens and coils												
Clean coils with cleaning solution and rinse												
Straighten any damaged fins with comb												
Inspect electrical/wiring connections for secureness												
Inspect mounting for secureness												
Inspect and clean interior of unit												
Inspect refrigerant lines for wear or damage												
Check fan(s) for function and damage/wear												
Check for unusual sounds/noises/vibrations												
Adequate supply of spare parts												
and an antible Anna than an												
Comments:		1	1		1			1				

School District of Manawa											Location	Fan #		
													Weight Room	
Planned Maintenance Task Sheet	Facility	/ :	Middle	High S	School			Location	on	Variou	s		Main	
	Ex	haus	st Fai	ns									Main	
													Main	
Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Main	
Disconnects labeled and accessible													Main	
Equipment locked and tagged out													Main	
Filters cleaned and or changed													Main	
Blower fan mounts are secure													Main	
Shaft aligned properly to motor													Main	
Blower fan pulley secure to shaft													Main	
Blower fan rotation correct													Main	
Blower fan belt tight, checked for wear and alignment													Main	
Blower fan bearings quiet, clean and lubricated													Main	
Motor bearings free of wear													Main	
Motor bearings lubricated													Main	
Motor free of excessive heat or noise													Main	
Squirrel cages, fan blades clean and balanced													Main	
Fire, smoke and back draft dampers functional													Main	
Equipment housings, caps and covers mounted securely													Main	
Adequate supply of spare parts													Sidewall	
													Sidewall	
Comments:													Sidewall	
													Inline	
													Sidewall	
													Sidewall	
													Sidewall	
													Inline	
													Inline	
													Ground Mount	t
													Sidewall	
													1	1

Manufacture	Model	Serial #	Date of Mfr.	Belt(s)	Serves
Greenheck				N/A	
Cook	36R8B				
Cook	15C1B				
Cook	15R2B				
Greenheck	USF-13-5-B1-50-01-01	16214012 20B	2020	N/A	Science Lab (1035)
Greenheck	CUE-099-A	13887011 - 1410	2014	N/A	
Greenheck	G-080-VG-X	16178142-20B	2020	N/A	
Greenheck	CUE-080-VG-X	16866388-20G	2020	N/A	
Greenheck	G-060-VG-X	16178177-20B	2020	N/A	
Greenheck	G-090-VG-X	16178188-20B	2020	N/A	
Greenheck	G-103-VG-4-X	16178172-20B	2020	N/A	
Greenheck	G-080-VG-X	16178180-20B	2020	N/A	
Cook	DX7B				
Cook	DX7B				
Cook	DX10B				
Cook	DX7B				
Cook	DX7B				
Cook	DX7B				
Greenheck	CUE-099-VG-4-X	16866386-20G	2020	N/A	
Greenheck	G-099-VG-4-X	17112861-201	2020	N/A	
Greenheck				N/A	1027
Greenheck				N/A	1029
Greenheck				N/A	1032
Fantech	FG12XL	1005392577			1048
					1049
					1049
					1049
Fantech	DEDPV-705	1005119424	2020		B0010
Fantech	DEDPV-705	1005119424	2020		B0010
AGET	30SN90-01	30-9936			1054 (Dust Collector)
					H-8

School District of Manawa

Planned Maintenance Task Sheet		Facility:	Middle/High School		Location	Roof
N	orthwest	(Entryway	y and Weight R	oom)		
Installer	Year of Install:	2020		Warranty:		

Task	Jan	Feb	Mar	Anr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Jan	reb	IVIAI	Apr	IVIAY	Juli	Jui	Aug	Sep	OCI	NOV	Dec
Seams and welds appear tight												-
Checked for pulling and tearing membrane												
Roof rains clear												
Drains have appropriate screens												
Flashing at chimneys, stack pipe vents and mechanical												
equipment intact												
Chimney brickwork, mortar and rain caps in good conditio												
TV antennas and solar dishes secure												
Roof is free of debris												
Emergency roof repair materials in stock												
Ballast rock in place evenly with no bare spots												
Adequate supply of spare parts												
Comments:		•		•	•	!	•	!	•	•	•	

Planned Maintenance Task Sheet		Facility: Mic	ddle/High School	Location	Roof
		North (Off	fices)		
Installer	Year of Install:	2020	Warranty:		

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Seams and welds appear tight												
Checked for pulling and tearing membrane												
Roof rains clear												
Drains have appropriate screens												
Flashing at chimneys, stack pipe vents and mechanical												
equipment intact												
Chimney brickwork, mortar and rain caps in good condition												
TV antennas and solar dishes secure												
Roof is free of debris												
Emergency roof repair materials in stock												
Ballast rock in place evenly with no bare spots												
Adequate supply of spare parts												
Comments:												

Planned Maintenance Task Sheet Facility: Middle/High School Location Roof	Planned Maintenance Task Sheet	Facility:	Middle/High School	Location	Roof
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	Gymnasium	
Installer	Year of Install:	Warranty:

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Seams and welds appear tight												
Checked for pulling and tearing membrane												
Roof rains clear												
Drains have appropriate screens												
Flashing at chimneys, stack pipe vents and mechanical												
equipment intact												
Chimney brickwork, mortar and rain caps in good conditio												
TV antennas and solar dishes secure												
Roof is free of debris												
Emergency roof repair materials in stock												
Adequate supply of spare parts												
Comments:												

Planned Maintenance Task Sheet	Facility:	Middle/High School	Location	Roof
	Main	Roof		

Installer	Year of Install:	Warranty:

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Seams and welds appear tight												
Checked for pulling and tearing membrane												
Roof rains clear												
Drains have appropriate screens												
Flashing at chimneys, stack pipe vents and mechanical												
equipment intact												
Chimney brickwork, mortar and rain caps in good conditio												
TV antennas and solar dishes secure												
Roof is free of debris												
Emergency roof repair materials in stock												
Adequate supply of spare parts												
Comments:	•	•			•	•			•		•	

Planned Maintenance Task Sheet	Facility:	Middle/High School		Location	Roof
	Sc	outhwest			
Installer	Year of Install:		Warranty:		

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Seams and welds appear tight												
Checked for pulling and tearing membrane												
Roof rains clear												
Drains have appropriate screens												
Flashing at chimneys, stack pipe vents and mechanical												
equipment intact												
Chimney brickwork, mortar and rain caps in good conditio												
TV antennas and solar dishes secure												
Roof is free of debris												
Emergency roof repair materials in stock												
Adequate supply of spare parts												
Comments:												
	_				_	_						

Planned Maintenance Task Sheet	Facility:	Middle/High School	L	_ocation	Roof
		East			
Installer	Year of Install:	W	Varranty:		

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Seams and welds appear tight												
Checked for pulling and tearing membrane												
Roof rains clear												
Drains have appropriate screens												
Flashing at chimneys, stack pipe vents and mechanical												
equipment intact												
Chimney brickwork, mortar and rain caps in good condition												
TV antennas and solar dishes secure												
Roof is free of debris												
Emergency roof repair materials in stock												
Ballast rock in place evenly with no bare spots												
Adequate supply of spare parts												
Comments:												

Planned Maintenance Task Sheet	Facility:	Middle/High School	Location	Roof					
Metal Roof									
Installer	Year of Install:	Warra	anty:						

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Seams are intact and locked in place												
Coatings are in good condition and no corrosion of panel												
Sealants in good contidion												
Flashings and trims intact and fastened properly												
Exposed fasteners properly tightend and in good condition												
Metal panels free of damage, dents, tears, etc.												
Transitions properly sealed												
Mounted fixtures properly fastened and flashed/sealed												
Roof is free of debris												
Emergency roof repair materials in stock												
Adequate supply of spare parts												
Comments:												

School District of Manawa

Planned Maintenance Task Sheet		Facility:	Middle/High S	chool	Location	n B0019	
		WATER H	HEATER 1				
Manufacturer: Bradford White	Model #:	EF100250E3N	12	Serial: TG43723224	Y	ear of Mfr.:	2019

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Drain several gallons from tank to remove sediment												
Manually check operation of safety valve. Check for corro												
Check all connections, electrical/gas and water												
Check temperature settings and verify proper operation												
Inspect exterior surfaces for corrosion and/or leaks												
Adequate supply of spare parts												
Comments:			•	•	•	•			•	•	•	•

Planned Maintenance Task Sheet		Facility:	Middle/High S	chool	Location	B0019	
		WATER H	HEATER 2				
Manufacturer: Bradford White	Model #:	EF100250E3N	12	Serial: TG43723223	Y	ear of Mfr.:	2019

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Drain several gallons from tank to remove sediment												
Manually check operation of safety valve. Check for corro												
Check all connections, electrical/gas and water												
Check temperature settings and verify proper operation												
Inspect exterior surfaces for corrosion and/or leaks												
												<u> </u>
												<u> </u>
Adequate supply of spare parts												
- tacquate cappy of cpane point												
Comments:	!		!		1		!	!	!	!		

Planned Maintenance Task Sheet	Facility:	Middle/High School	Location	B0019	
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		WATER HEATER	23		
Manufacturer: Bradford White	Model #:	EF100250E3N2	Serial: TG43723221	Year of Mfr.:	2019

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Drain several gallons from tank to remove sediment												
Manually check operation of safety valve. Check for corro												
Check all connections, electrical/gas and water												
Check temperature settings and verify proper operation												
Inspect exterior surfaces for corrosion and/or leaks												
												<u> </u>
Adequate supply of spare parts												
Comments:												

Planned Maintenance Task Sheet	Facility:	Middle/High School	Location	1022
	WATER H	HEATER 4		

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Drain several gallons from tank to remove sediment												
Manually check operation of safety valve. Check for corros												
Check all connections, electrical/gas and water												
Check temperature settings and verify proper operation												
Inspect exterior surfaces for corrosion and/or leaks												
												-
												
Adequate supply of spare parts												
Comments:												

School District of Manawa ned Maintenance Task Sheet Facility: Middle/High School Location Various													
												West AHU	Unit Heater
Facilit	y:	Middle	High S	School			Locati	on	Variou	IS		1027 (Rec.)	Unit Heater
it Heate	ers (F	an P	ower	ed/H	ot Wa	ater (Coil)					1028	Unit Heater
	-											1041	Unit Heater
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	1048A	Unit Heater
												1054	Unit Heater
												H-5	Cabinet Heate
												H-5	Cabinet Heate
												H-6	Cabinet Heate
												H-7	Cabinet Heate
												H-8	Unit Heater
												H-9	Cabinet Heate
												H-20	Cabinet Heate
												H-21	Cabinet Heate
												H-22	Cabinet Heate
												H-23	Cabinet Heate
1		1										1	
												1	
												1	
												1	
	it Heate	it Heaters (F	it Heaters (Fan P	it Heaters (Fan Power	it Heaters (Fan Powered/H	it Heaters (Fan Powered/Hot Wa	it Heaters (Fan Powered/Hot Water (it Heaters (Fan Powered/Hot Water Coil)	Facility: Middle/High School Location Various 1027 (Rec.)				

Unit #	Manufacture	Model	Serial #	Date of Mfr.	Filters
	Trane	UHSA09058DAAF	A95F11130	1995	
	Trane	UHSA23058DAAJ	A95F11304	1995	
	Trane	UHSA09058DAAE	A95F11178	1995	
	Trane	UHSB0481TAA101	F20B30831	2020	
	Trane	UHSB0481TAA101	F20B30832	2020	
	Trane	UHSB0481TAA101	F20B30833	2020	
	Trane				
	Trane	UHSA09058DAAE	A95F11181	1995	
	Trane				

School District of Manawa

Planned Maintenance Task S	Sheet	Facility:	Middle/High S	chool	Locatio	on	
		Gene	erator				
Manufacturer: Generac	Model #:			Serial:		Year of Mfr.:	

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Record date of inspection.												
Check belts and tension.												
Check condition of hoses for deterioration and/or leakage.												
Check oil level												
Check antifreeze level												
Check battery terminals for tighness and corrosion												
Check battery charger												
Check block heater												
Inspect entire unit for oil, fuel, water leaks												
Record hours												
Initiate test at transfer switch												
Did unit transfer from utility power to emergency power?												
Record transfer time												
Record operating temperature												
Record operating oil pressure												
Record exhaust temperature (if applicable)												
Record voltage												
Record amperage												
Record frequency												
Check operation of intake louvers (if applicable)												
Check operation of remote annunciator (if applicable)												
Proper transfer back to utility power? (after 30 minutes)												
Did unit complete proper 5 minute cool down?												
Replaced panels removed for inspection.												
Adequate supply of spare parts												
Comments:	•	•	•	•	•		•	•	•	•	•	•

Manawa School District

Monthly Inspection Checklist

Middle/High School

2021

Task	TL	Time	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Air Handler Inspection	М	15 min. (ea.)												
Exhaust Fan Inspection	М	30 min.												
Roof/Drain Inspection	C/M	30 min.												
Means of Egress Inspection	C/M	30 min.												
Exterior Lighting Inspection	C/M	30 min.												
Lighting Control Inspection	М	15 min.												
Door Inspection	М	1 hr.												
Generator Testing	M/P	30 min.												
Boiler Inspection	M/P	15 min. (ea.)												
Comments:														

Technical Level (TL): C = Custodial M = Maintenance P = Professional

Quarterly Inspection Checklist

Middle/High School

2021

Task	TL	Time	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Air Handler Inspection	M/P	30 min. (ea.)					_	_		-				
RTU Inspection	M/P	15 min. (ea.)												
ERV Inspection	M/P	30 min. (ea.)												
AC Condensor Unit Inspection	M/P	15 min. (ea.)												
Pump Inspection	M/P	15 min.												
Ice Maker Inspection	M	15 min. (ea.)												
Sump Pump Inspection	M	15 min.												
Water Softener Inspection	M	15 min.												
Comments:														

Technical Level (TL): C = Custodial M = Maintenance P = Professional

Annual/Semi Annual Inspection Checklist

Middle/High School

2021

Task	TL	Time	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
VFD Cleaning/Inspection	M/P	10 min. (ea.)												
Unit Heater Inspection/Cleaning	M/P	10 min. (ea.)												
Caninet Heater Inspection/Cleaning	M/P	20 min. (ea.)												
Domestic Water Heater Inspection	M/P	15 min.												
Building Exterior Inspection	М	1 hr.												
Parking Lot Inspection/Evaluation	M/P	1 hr.												
									-					
Comments:														
Comments.														

Technical Level (TL): C = Custodial M = Maintenance P = Professional

Project	Estimated Cost	Notes	Red/Yellow/Green
LED lighting MES classrooms	\$50,000.00	This cost may be off; Faith Technologies	
Strip and polish the terrazo at the high school	\$50,000.00		RED
MES Playground Equipment			
Furnishings - LWHS/MMS Commons			YELLOW
Furnishings - LWHS/MMS Collaboration Space	\$50,000.00		RED
Furnishings - LWHS/MMS Classroom Furniture	\$100,000.00		YELLOW
Furnishings - MES Flexible Classroom Furniture			
Furnishings - MES House Common Space			
Carpeting for the LWHS/MMS library			YELLOW
Bottle Fillers at LWHS - Library			RED
Air Duct/Fume Hood exhaust capabilities in the Engineering & Robitics Design Lab - LWHS			YELLOW
MS/HS Scrolling Sign			YELLOW
MES Scrolling Sign			
MES Additional Door Fobs	\$6,000.00	LaForce / Brivo System - 3 new fobbed doors	
MES Water Bottle Fillers		MES Houses (2)	
Easy-to-Move Furniture for LWHS/MMS library			
Easy-to-Move Furniture for MES library			
MES corridor tile replacement on expansion joints			
Electronic Attendance by classroom - MS/HS			GREEN
Automated lawn mowing			GREEN
Student SIS			
Information flow /paperless/single point data entry			
MES Scoreboard Replacement			



MANAWA SCHOOL DISTRICT

PROPERTY LISTING

Billing Address	s:					L	awn Servi	ces			ı	Expanded	Service	s		Tr	ee and	Shrub	Servic	es		
	MANAWA SCHOOL DISTRICT	PRICES LISTED)					<u> </u>				ST)										
	800 BEECH ST	ARE FOR 1 YEA	AR								(JUNE)	(AUGU	bu		<u>g</u>	tilization	5	-	5	zation		
	MANAWA, WI 54949					_				Total	ontrol #1	ontrol #2	& Seedi	<u> </u>	a Seedir	one Fer	e Control	e Contre	e Contro	e Fertiliz	ıb Total	
				Spring	Spring	Summe	ummer	Fall	a a	Service	ation Co	ation Cc	eration	ded To	im Extra	J Root Z	t/Diseas	/Diseas	/Diseas	oot Zon	nd Shr	Total
Account #	PROPERTY	ADDRESS	CITY	Early :	Late S	Early :	Late S	Early	Late F	Lawn	Veget	Vegeta	Fall Ae	Expan	One T	Spring	Insect	Insect	Insect	Fall Ro	Tree a	Grand
7002917469	LITTLE WOLF JR/SR HIGH SCHOOL (SITE 2)	515 E 4TH ST	MANAWA	\$482.00	\$482.00	\$482.00	\$482.00	\$482.00	\$482.00	\$2,892.00	\$250.00	\$250.00	TBD	\$500.00							\$0.00	3,392.00
7002917469	MANAWA ELEMENTARY SCHOOL (SITE 1)	800 BEECH ST	MANAWA	\$396.00	\$396.00	\$396.00	\$396.00	\$396.00	\$396.00	\$2,376.00	\$225.00	\$225.00	TBD	\$450.00							\$0.00	2,826.00
7002917469	MANAWA SPORTS COMPLEX (SITE 3)	515 E 4TH ST	MANAWA							\$0.00	\$125.00	\$125.00	TBD	\$250.00							\$0.00	250.00
7002917469	PRACTICE FIELDS (SITE 4)	585 E 4TH ST	MANAWA	\$185.00	\$185.00	\$185.00	\$185.00	\$185.00	\$185.00	\$1,110.00			TBD	\$0.00							\$0.00	1,110.00
7002917469	VACANT DISTRICT LOT (SITE 5)	585 E 4TH ST	MANAWA	\$750.00	\$750.00	\$750.00	\$750.00	\$750.00	\$750.00	\$4,500.00			TBD	\$0.00							\$0.00	4,500.00
			,				, and the second	·	·	\$0.00				\$0.00							\$0.00	0.00
	Totals before tax			\$1,813.00	\$1,813.00	\$1,813.00	\$1,813.00	\$1,813.00	\$1,813.00	\$10,878.00	\$600.00	\$600.00	\$0.00	\$1,200.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	12,078.00

SCHOOL DISTRICT OF MANAWA KEY PERFORMANCE INDICATORS

Internal predictive tests-universal screeners as defined by
building/grade that predict how students will do on mandated assessments. (STAR, Fountas and Pinnell Running Records, Lucy Calkins) Proficiency for each predictive test is based on the state proficiency level except early literacy and math that are locally created. Volunteerism will be based on school sponsored or school-based groups/organizations who provide a service to the community. ISTE stands for the International Society for Technology and Education and is a global institution on research-based best practices in technology education and innovation. There are 6 AP classes; 1 CAAP class; and 3 articulated with Fox Valley Technical College.
F p la V s ti

SCHOOL DISTRICT OF MANAWA KEY PERFORMANCE INDICATORS

II. Operation Efficiencies

- A. Maintain an annual balanced budget.
- B. Levy to the allowable authority.
- C. Workers Compensation Experience Rate (a.k.a. MOD rate) will be kept under 1.0
 - 1. 2020 rate is 1.04
 - 2. Cannot go lower than 0.70 statistically
- D. Bond Rating A+ (2019)
- E. Update and implement 20-year Facilities Plan.
- F. Update and implement a <u>5-year Technology Plan</u>.

To levy a tax means to collect a tax by legal authority

MOD rate is a premium multiplier that measures the difference in the past workers compensation claims to the expected claims. This either increases or decreases the workers compensation insurance premium.

A bond rating is a credit score obtained when borrowing. The District used Standard & Poor's (AAA-D) for our last referendum debt. This bond rating was established based on a stable local economy, a strong available fund balance, a moderate overall debt burden, and good district management practices. This is offset by declining enrollment.

III. Safe & Orderly Environment

- A. 95% of students have no major offense.
 - 1. High School (2020-2021): 86.4% of high school students didn't have a major offence
 - 2. Middle School (2020-2021): 87.1% of middle school students didn't have a major
 - 3. Elementary (2020-2021): 72% didn't have a major offense
- B. Maintain an annually approved School Safety Plan.
- C. No Out-of-School Suspensions/Expulsions
 - 1. Elementary = 0 in 20-21
 - 2. Secondary = 0 expulsions in 20-21 and 7 High School suspension and 7 Middle School suspensions
- D. 100% compliance with drills (evacuation, lockdown, lock out, shelter in place, etc.).

Major Offense - Behavior that rises to the level of administrative referral and/or police intervention.

SCHOOL DISTRICT OF MANAWA KEY PERFORMANCE INDICATORS

IV. Engagement & Satisfaction

- A. Staff retention rate at 92% or higher.
 - 1. 2019-20 Retention Rate: 96.3%
 - 2. 2020-21 Retention Rate: 84.1%
 - a) 2020-21 resignation due to retirement: 5/85 = 5.9%
 - b) 2020-21 resignation (not retirement): 9/85 = 9.6%
- B. Less than 5% of K-12 students are chronically absent per WISEdash state expectations by the conclusion of the 2023-24 school year.
 - 1. 2020-21 MES 3.4% of students chronically absent
 - 2. 2020-21 MMS 6.5% of students chronically absent
 - 3. 2020-21 LWHS 6.9% of students chronically absent
- C. Secondary student engagement based on participation in co-curriculars (unduplicated count)
 - 1. MS: 63% of students engaged in at least one or more offering
 - 2. HS: 74% of students engaged in at least one or more offering
- D. Decrease open enrollment out/Increase open enrollment in.
 - 1. Establish Baseline
- E. Establish New Staff Survey School Perceptions
- F. Establish Parent Survey School Perceptions
- G. Establish Student Survey School Perceptions

Retention Rate: the number of employees that left during the school year divided by the number of employees total at the end of the school year

Exit Survey: Currently only BOE members receive this data, it is suggested that the BOE creates a summary of recommendations to be shared with the administrative team.

Definition of Chronically Absent: Students are considered to be chronically absent if they miss 16% of school days per the DPI.

Open enrollment percent is based on all available possible resident students in the district (includes: St. Paul, all parochial/private school, homeschool, open enrollment out, current SDM enrollment but exclude Amish)

2020-21 Data - Co-Curriculars:

MS Offerings:

5 Academic Offerings

9 Athletic/Club Offerings

2 Musical Offerings

HS Offerings:

13 Academic Offerings

13 Athletic/Club Offerings

5 Musical Offerings