NETHER PROVIDENCE ELEMENTARY SCHOOL

Retro-Commissioning Report

Prepared By: David-Christopher Mychaluk and Daniel Hainey
Inspection Period: 1/24/24 – 2/05/24
Report completed: 2/28/2024



Systems Inspected:

Page 2: Building Automation System

Page 3: Hot Water Plant

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Nether Providence Elementary School Building Summary

Nether Providence Elementary School was originally constructed in 1939, with additional wings added in 1949 and 1964. In 2015 a significant remodel and expansion occurred, the design was completed by GKO Architects modernizing the structure and providing additional square footage. Primary systems include a hot water plant, Closed water loop heat pump plant, rooftop air handling units, water source heat pumps and a kitchen makeup air unit.

Building Automation System Summary

The building automation system is comprised entirely of Honeywell Comfort Point Open series controllers. HVAC equipment utilizes an individualized electronic controller managing the overall functionality. This includes the closed loop heat pump plant, rooftop air handling units, water source heat pumps, and hydronic heaters. The existing controls are currently being integrated to the district wide Niagara server that provides graphics, alarming, trending, and restricted remote access.

HOT WATER PLANT



Application

Primary Variable Volume Hot Water, Secondary Variable Volume Hot Water, Electronic Controls

Approximate Equipment Age

10 years

Approximate Quantity

2 boilers, 2 primary hot water pumps, 2 secondary hot water pumps

Areas Served

Entire building, Closed water heat pump plant

Equipment and Controls Expectations

The hot water plant provides and distributes hot water to hot water heating coils throughout the building. Equipment is staged such that the minimum number of boilers and pumps are running at variable speed to satisfy the overall building hot water demand. A differential pressure sensor is used as a controlling source for pump speed control maintaining an adjustable setpoint. A heat exchanger for the heat pump loop is fed hot water to maintain desired heat exchanger setpoint. Equipment is rotated (lead and lag) to equalize runtimes. Alarms are generated upon equipment failure or inability to maintain a temperature setpoint. The lag equipment assumes operation upon failure of a lead equipment (boiler or pump).

Observations

Refer to BlueRithm Issues log for a complete list of observations.

Recommendations

Refer to BlueRithm Issues log for a complete list of recommendations.

CLOSED WATER LOOP HEAT PUMP PLANT





Application

Variable Volume Condenser water, Electronic Controls

Approximate Equipment Age

10 years

Approximate Quantity

2 condenser water pumps, 1 Cooling Tower, 1 Heat Exchanger

Areas Served

Water Source Heat Pump Loop, Rooftop Units

Equipment and Controls Expectations

The closed water loop heat pump plant provides and distributes conditioned condenser water to rooftop units and water source heat pumps located throughout the building. The plant is enabled continuously, with pump speed modulating to meet a differential pressure setpoint. The system maintains a condenser water supply temperature setpoint, utilizing several control valves that direct water flow through a heat exchanger and cooling tower when required. Equipment is staged such that the minimum number of pumps are running to satisfy the overall building condenser water demand. Pumps are rotated (lead and lag) to equalize runtimes. Alarms are generated upon a pump failure, or equipment inability to maintain setpoints. The lag pump assumes operation upon failure of the lead pump.

Observations

The cooling tower was found to be in poor condition with scale and moss buildup on inlet louvers which can prevent proper airflow. Extensive rust and corrosion found on the galvanized steel coil. The plant is currently maintaining loop temperatures and working as expected. Refer to BlueRithm Issues log for a complete list of observations.

Recommendations

Replacement of the cooling tower inlet louvers and upgrading the coil to a stainless-steel type is recommended. Full tower replacement should be considered in lieu of these repairs. Refer to BlueRithm Issues log for a complete list of recommendations.

ROOFTOP AIR HANDLING UNITS



Application

Variable Volume Supply Air Fan, Variable Volume Exhaust Air Fan, Water conditioned heat pump, Hot Gas Reheat, Economizer, Heat Recovery Wheel, Electronic Controls

Approximate Equipment Age

10 years

Approximate Quantity

8

Areas Served

Gymnasium, Auditorium, Cafeteria, Administration, Library, classrooms

Equipment and Controls Expectations

The rooftop air handing unit and energy recovery unit provides heating, cooling, dehumidification, outside air ventilation and heat recovery for the areas served. The supply fan modulates fan speed to maintain supply air duct static pressure setpoint. The exhaust fan modulates fan speed to maintain a space static pressure setpoint. Upon a call for cooling the conditioned water loop isolation valve opens and DX compressors cycle on. When in heating mode a reversing valve is energized in addition to the loop isolation valve and DX compressor command. The DX compressors cycle on and the hot gas bypass valve opens to reheat on a call for dehumidification. The minimum outside air is set to maintain an airflow target set during test and balancing of the system. Outside air increases upon a call for cooling, if outside air conditions are favorable (economizer cooling), maintaining a low limit temperature. Outside air increases in similar sequence upon high space CO2 concentrations. When outside air is introduced, and air is exhausted the heat recovery wheel is engaged and will run while conditions are favorable. The outside air damper, exhaust damper, DX compressors, supply fan, exhaust fan and heat recovery wheel, close or shut down when the space is unoccupied. The unit cycles in heating, cooling, or dehumidification to maintain a minimum and a maximum space temperature and a maximum space humidity when the space is unoccupied. Alarms are generated upon equipment failure or the inability to maintain a desired setpoint. Unit shuts down upon active fire alarm or smoke detection.

Observations

Rooftop air handling units are operational with each needing miscellaneous repairs or maintenance. The integration and available setpoints for the controllers require correction. Refer to BlueRithm Issues log for a complete list of observations.

Recommendations

Perform repairs and update preventative maintenance schedule. Make corrections to the ongoing Niagara integration of each unit as needed. Refer to BlueRithm Issues log for a complete list of recommendations.

WATER SOURCE HEAT PUMPS



Application

Constant Volume Supply Air, Water Source Heat Pump (heating and cooling), Water Source Isolation Valve, Electronic Controls

Approximate Equipment Age

10 years

Approximate Quantity

45

Areas Served

Classrooms, MDF closets, Breakrooms, Small offices

Equipment and Controls Expectations

The water source heat pump provides heating and cooling by cycling a compressor and reversing valve to maintain a space temperature setpoint. The compressor depends on water circulation from the closed loop water plant. Each unit is outfitted with an isolation valve to stop flow from the plant when not needed, thereby reducing unnecessary pump energy the plant consumes. The heat pump supply fan runs continuously when the space is occupied to assist in this ventilation. Units cycle during unoccupied periods to maintain a minimum heating and a maximum cooling setpoint. Alarms are generated upon equipment failure or the inability to maintain a desired setpoint. The unit shuts down upon active fire alarm or smoke detection.

Observations

A systemic issue was present in the water loop isolation valve for all water source heat pump units. All valves did not close with programming logic, and several had completely failed with the actuator removed from the valve body. Outside of this issue the units were generally operational. The maintenance schedule was found to be recently updated with regular filter changes; however, condensate drain lines and coils require cleaning and sanitizing. Refer to BlueRithm Issues log for a complete list of observations.

Recommendations

Complete repairs as needed, update programing and repair isolation valve such that they close when the compressor is not calling. Replacing the valve body and actuator with a more robust type may be required. Properly maintain and clean units with regular filter changes and coil cleaning. Flush and sanitize all condensate drain lines and include condensate pan treatment tabs in quarterly preventative maintenance schedule. Refer to BlueRithm Issues log for a complete list of recommendations.

VAIRABLE AIR VOLUME UNITS

Application

Variable Volume Supply Air, Hydronic heating coil

Approximate Equipment Age

10 years

Approximate Quantity

20

Areas Served

Administrative areas, Group instruction classrooms, Library, Common spaces

Equipment and Controls Expectations

The variable air volume unit (VAV) identified as Shut-Off Air terminal (SOV) in mechanical drawings, supplies conditioned air provided from the associated rooftop unit. A damper mounted inside the assembly will modulate to maintain a cubic foot per minute (CFM) setpoint. The CFM setpoint will change based on space condition and mode of the VAV. When space temperature is below the heating space temperature setpoint a hydronic heating valve will open to a coil which reheats the supplied air.

Observations

The devices were functional and able to maintain setpoint. Multiple units had zone sensors reading 3 degrees higher or lower than actual when compared against a calibrated hand probe. Refer to BlueRithm Issues log for a complete list of observations.

Recommendations

Annual setpoint alignment should occur on all VAV's. Temperature offset correction or replacement of failed sensors should occur. Refer to BlueRithm Issues log for a complete list of recommendations.

UNIT HEATERS





Application

Constant Volume Supply Air, Hot Water Heating, Electro-Mechanical Controls

Approximate Equipment Age

10 years

Approximate Quantity

32

Areas Served

Corridors, Stairwells, Vestibules, Storage areas

Equipment and Controls Expectations

The unit heater (Cabinet and hanging) provides heating for the space it serves. It depends on hot water from the boiler plant when in heating mode. The unit utilizes a flush mount sensor to sense space temperature. When a drop in temperature below setpoint occurs a hot water valve shall open and a fan will enable.

Observations

Several issues including uninsulated piping, and failed control valves were found. Integration and layout on building floorplans within the BAS were inaccurate. Refer to BlueRithm Issues log for a complete list of observations.

Recommendations

Recommend completing miscellaneous repairs and updating unit locations within the BAS floorplans. Refer to BlueRithm Issues log for a complete list of recommendations.

CONVECTORS



Application

Hot Water Heating, Electronic Controls

Approximate Equipment Age

10 years

Approximate Quantity

19

Areas Served

Lavatories, Breakroom, Storage

Equipment and Controls Expectations

The convector, like a radiator, provides heating for the space it serves. It depends on hot water from the boiler plant. The unit is provided with a hot water control valve that modulates or opens to maintain the space temperature at setpoint. Each unit is capable of being scheduled with occupied and unoccupied heating setpoints to save energy when the space it serves is unoccupied.

Observations

Several hot water control valves were found unresponsive to override or command from the BAS. Graphic locations were missing or inaccurate on the BAS. Refer to BlueRithm Issues log for a complete list of observations.

Recommendations

Make required repairs to control valves and controllers. Update graphics and floorplan locations as required. Refer to BlueRithm Issues log for a complete list of recommendations.

Functional Checklist And Issues Log

C-1 100C Admin

Project / Nether Providence Elementary School / Convectors

Convector

In Progress

		Design	Proposed	Final	Units
Description	C-1				

Notes

danhainey@cm3inc.com on 2/1/2024 10:21:24 PM:
Overview



Principal.v2.jpg; Added on 2/1/2024 10:21:25 PM by danhainey@cm3inc.com

C-1 100C ADMIN WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Heating Valve	BO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

In Progress
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 2/1/2024 10:20:21 PM
Last edit by danhainey@cm3inc.com on 2/2/2024 2:27:11 PM

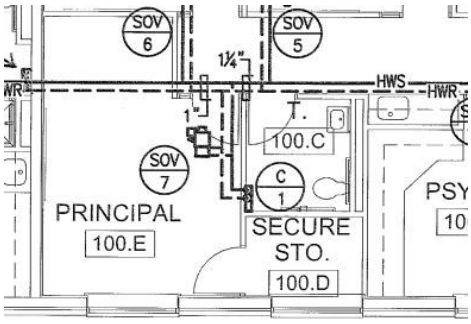
C-1 100C ADMIN ISSUES

ISSUE-1257

Project / Nether Providence Elementary School / Convectors / C-1 100C Admin

This unit does not appear to be integrated. : Properly integrate unit and include on BAS graphic in location shown.

Status	Open
Entered	2/1/2024 10:23:20 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	bencohen@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



C1.png; Added on 2/1/2024 10:23:20 PM by danhainey@cm3inc.com

C-1B Toilet 112B

Project / Nether Providence Elementary School / Convectors

Convector

Complete

		Design	Proposed	Final	Units
Description	C-1B				

Notes

danhainey@cm3inc.com on 1/31/2024 9:11:59 PM:
Overview



Overview.v2.jpg; Added on 1/31/2024 9:12:00 PM by danhainey@cm3inc.com

C-1B TOILET 112B WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	72.1	72.9	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	74	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 6:01:09 PM
Marked complete by danhainey@cm3inc.com on 1/31/2024 9:13:40 PM

C-1B TOILET 112B ISSUES

ISSUE-1237

Project / Nether Providence Elementary School / Convectors / C-1B Toilet 112B

Hot water control valve failed to close upon command. : Check control wiring and programming.

Status	Open
Entered	1/31/2024 9:12:43 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM

C-1C Toilet 122A

Project / Nether Providence Elementary School / Convectors

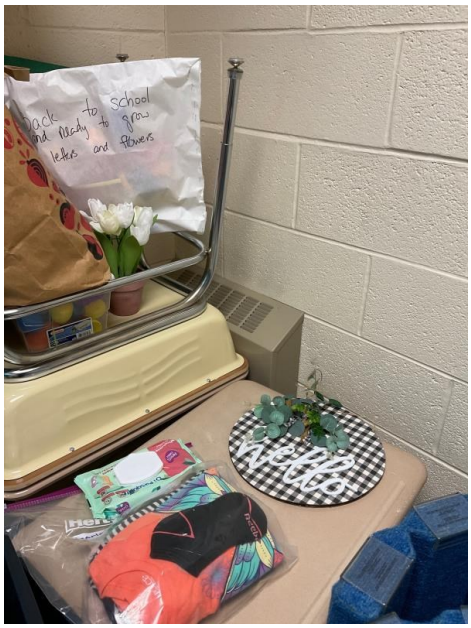
Convector

In Progress

		Design	Proposed	Final	Units
Description	C-1C				

Notes

danhainey@cm3inc.com on 2/1/2024 9:38:15 PM:
Overview



Overview.v2.jpg; Added on 2/1/2024 9:38:15 PM by danhainey@cm3inc.com

C-1C TOILET 122A WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	69.3	70.4	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 6:04:48 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:12:43 PM

C-1C TOILET 122A ISSUES

ISSUE-1255

Project / Nether Providence Elementary School / Convectors / C-1C Toilet 122A

Hot water control valve failed to close upon command. : Check control wiring and programming.

Status	Open
Entered	2/1/2024 9:39:12 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM

ISSUE-1263

Project / Nether Providence Elementary School / Convectors / C-1C Toilet 122A

Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.

Status	Open
Entered	2/2/2024 2:46:42 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



Convectors

UNIT NAME	SERVES	SPACE TEMP	OCC SETPT	UNOC SETPT	ACTIVE SETPT	HEAT VLV CMD
C-1B	Toilet Rm-112B	73.34 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1C	Toilet Rm-122A	70.96 °F	70.00 °F	68.00 °F	68.00 °F	Close
C-1D	Toilet Rm-104C	73.47 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1E	Rm-104B	74.00 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1F	Rm-102B	86.79 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1G	Boys T-13	73.61 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1H	Girls T-14	73.35 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1I	Toilet T-10	72.39 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1J	Toilet T-12	72.72 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1K	Toilet Rm-113	71.46 °F	70.00 °F	68.00 °F	68.00 °F	Close
C-1L	Toilet Rm-114	72.76 °F	70.00 °F	68.00 °F	68.00 °F	Close
C-2A	Toilet T-09	74.63 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-2B	Toilet T-11	74.52 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-2C	Rm-217	69.19 °F	70.00 °F	68.00 °F	70.00 °F	Open
C-2D	Rm-217	69.05 °F	70.00 °F	68.00 °F	70.00 °F	Open
FTR-1	Storage ST-4	66.98 °F	70.00 °F	68.00 °F	68.00 °F	Open
FTR-2	Janitor J-02	72.17 °F	70.00 °F	68.00 °F	70.00 °F	Close
FTR-3	2nd Flr A Stor	72.00 °F	70.00 °F	68.00 °F	70.00 °F	Close

C.png; Added on 2/2/2024 2:46:42 PM by danhainey@cm3inc.com

C-1D Toilet 104C

Project / Nether Providence Elementary School / Convectors

Convector

Complete

		Design	Proposed	Final	Units
Description	C-1D				

Notes

danhainey@cm3inc.com on 2/1/2024 6:17:27 PM:
Overview



Overview.v2.jpg; Added on 2/1/2024 6:17:39 PM by danhainey@cm3inc.com

C-1D TOILET 104C WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	72.9	73.3	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 6:04:47 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:48:01 PM

C-1E Room 104B

Project / Nether Providence Elementary School / Convectors

Convector

Complete

		Design	Proposed	Final	Units
Description	C-1E				

Notes

danhainey@cm3inc.com on 2/1/2024 6:24:10 PM:
Overview



Overview.v2.jpg; Added on 2/1/2024 6:24:10 PM by danhainey@cm3inc.com

C-1E ROOM 104B WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	72.7	74.5	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 6:04:49 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:14:52 PM

C-1F Room 102B

Project / Nether Providence Elementary School / Convectors

Convector

Complete

		Design	Proposed	Final	Units
Description	C-1F				

Notes

danhainey@cm3inc.com on 2/1/2024 5:02:43 PM:
Overview



Overview.v2.jpg; Added on 2/1/2024 5:02:43 PM by danhainey@cm3inc.com

C-1F ROOM 102B WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	93.7	86.1	☐	✔	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 6:04:47 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:15:06 PM

C-1F ROOM 102B ISSUES

ISSUE-1242

Project / Nether Providence Elementary School / Convectors / C-1F Room 102B

Space temperature sensor is in discharge of convector. : Relocate space temperature sensor to an opposite wall.

Status	Open
Entered	2/1/2024 5:03:42 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Control Device Installation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM



Overview.v2.jpg; Added on 2/1/2024 5:03:43 PM by danhainey@cm3inc.com

ISSUE-1243

Project / Nether Providence Elementary School / Convectors / C-1F Room 102B

Hot water control valve failed to close upon command. : Check control wiring and programming.

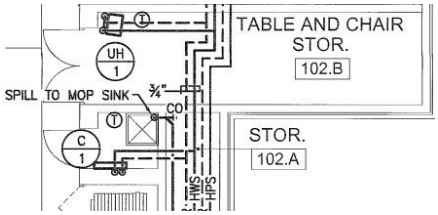
Status	Open
Entered	2/1/2024 5:04:57 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM

ISSUE-1244

Project / Nether Providence Elementary School / Convectors / C-1F Room 102B

This unit is improperly located on the BAS floor plan graphic. : Relocate unit on BAS floor plan to serve Storage 102A (Janitor Closet).

Status	Open
Entered	2/1/2024 5:12:41 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM



UHC.png; Added on 2/1/2024 5:12:42 PM by danhainey@cm3inc.com

C-1G Boys T-13

Project / Nether Providence Elementary School / Convectors

Convector

Complete

		Design	Proposed	Final	Units
Description	C-1G				

Notes

danhainey@cm3inc.com on 1/30/2024 6:21:51 PM:
Overview



Overview.v2.jpg; Added on 1/30/2024 6:21:51 PM by danhainey@cm3inc.com

C-1G BOYS T-13 WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.6	72.6	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 6:04:49 PM
Marked complete by danhainey@cm3inc.com on 1/30/2024 6:20:52 PM

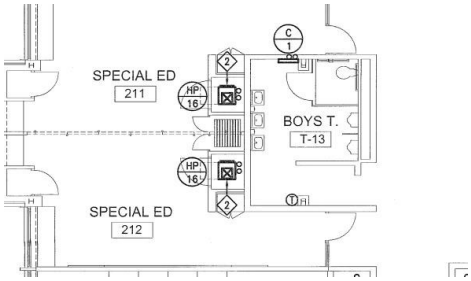
C-1G BOYS T-13 ISSUES

ISSUE-1201

Project / Nether Providence Elementary School / Convectors / C-1G Boys T-13

Unit is not shown on BAS floor plan graphic. : Add to graphic, serving Boys T-13.

Status	Open
Entered	1/30/2024 6:24:50 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



CT13.png; Added on 1/30/2024 6:24:50 PM by danhainey@cm3inc.com

C-1H Girls T-14

Project / Nether Providence Elementary School / Convectors

Convector

Complete

		Design	Proposed	Final	Units
Description	C-1H				

Notes

danhainey@cm3inc.com on 1/30/2024 6:35:08 PM:
Overview



Overview.v2.jpg; Added on 1/30/2024 6:39:17 PM by danhainey@cm3inc.com

C-1H GIRLS T-14 WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.3	73.3	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 6:04:46 PM
Marked complete by danhainey@cm3inc.com on 1/30/2024 6:51:41 PM

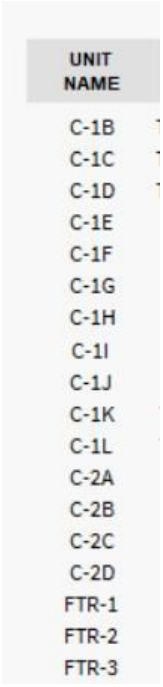
C-1H GIRLS T-14 ISSUES

ISSUE-1202

Project / Nether Providence Elementary School / Convectors / C-1H Girls T-14

Clicking on Unit Name C-1H on overview graphic links to wrong floor plan graphic. :
Correct graphics.

Status	Open
Entered	1/30/2024 6:32:52 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



Clink.png; Added on 1/30/2024 6:32:52 PM by danhainey@cm3inc.com

ISSUE-1203

Project / Nether Providence Elementary School / Convectors / C-1H Girls T-14

Hot water control valve failed to close upon command. : Check control wiring and programming.

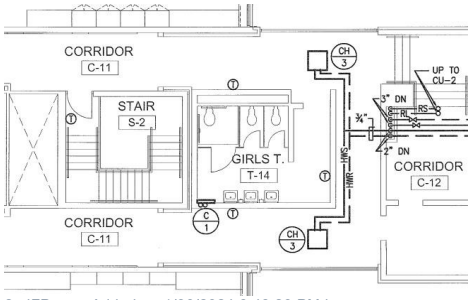
Status	Open
Entered	1/30/2024 6:34:39 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM

ISSUE-1204

Project / Nether Providence Elementary School / Convectors / C-1H Girls T-14

Unit is not shown on BAS floor plan graphic. : Add to graphic, serving Girls T-14.

Status	Open
Entered	1/30/2024 6:48:20 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



2ndFP.png; Added on 1/30/2024 6:48:20 PM by danhainey@cm3inc.com

C-1I Toilet T-10

Project / Nether Providence Elementary School / Convectors

Convector

Complete

		Design	Proposed	Final	Units
Description	C-1I				

Notes

danhainey@cm3inc.com on 1/30/2024 8:13:03 PM:
Overview



Overview.v2.jpg; Added on 1/30/2024 8:13:03 PM by danhainey@cm3inc.com

C-1I TOILET T-10 WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.6	72.8	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	✔	☐	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 6:04:46 PM
Marked complete by danhainey@cm3inc.com on 1/30/2024 8:12:39 PM

C-1J Toilet T-12

Project / Nether Providence Elementary School / Convectors

Convector

Complete

		Design	Proposed	Final	Units
Description	C-1J				

Notes

danhainey@cm3inc.com on 1/30/2024 8:07:35 PM:
Overview



Overview.v2.jpg; Added on 1/30/2024 8:07:35 PM by danhainey@cm3inc.com

C-1J TOILET T-12 WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.7	73.3	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 6:04:48 PM
Marked complete by danhainey@cm3inc.com on 1/30/2024 8:07:15 PM

C-1K Toilet 113

Project / Nether Providence Elementary School / Convectors

Convector

In Progress

		Design	Proposed	Final	Units
Description	C-1K				

Notes

danhainey@cm3inc.com on 2/1/2024 10:03:28 PM:
Overview



Overview.v2.jpg; Added on 2/1/2024 10:03:28 PM by danhainey@cm3inc.com

C-1K TOILET 113 WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	69.4	71.0	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 6:04:48 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:15:23 PM

C-1K TOILET 113 ISSUES

ISSUE-1264

Project / Nether Providence Elementary School / Convectors / C-1K Toilet 113

Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.

Status	Open
Entered	2/2/2024 2:47:31 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



Convectors

UNIT NAME	SERVES	SPACE TEMP	OCC SETPT	UNOC SETPT	ACTIVE SETPT	HEAT VLV CMD
C-1B	Toilet Rm-112B	73.34 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1C	Toilet Rm-122A	70.96 °F	70.00 °F	68.00 °F	68.00 °F	Close
C-1D	Toilet Rm-104C	73.47 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1E	Rm-104B	74.00 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1F	Rm-102B	86.79 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1G	Boys T-13	73.61 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1H	Girls T-14	73.35 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1I	Toilet T-10	72.39 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1J	Toilet T-12	72.72 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1K	Toilet Rm-113	71.46 °F	70.00 °F	68.00 °F	68.00 °F	Close
C-1L	Toilet Rm-114	72.76 °F	70.00 °F	68.00 °F	68.00 °F	Close
C-2A	Toilet T-09	74.63 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-2B	Toilet T-11	74.52 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-2C	Rm-217	69.19 °F	70.00 °F	68.00 °F	70.00 °F	Open
C-2D	Rm-217	69.05 °F	70.00 °F	68.00 °F	70.00 °F	Open
FTR-1	Storage ST-4	66.98 °F	70.00 °F	68.00 °F	68.00 °F	Open
FTR-2	Janitor J-02	72.17 °F	70.00 °F	68.00 °F	70.00 °F	Close
FTR-3	2nd Flr A Stor	72.00 °F	70.00 °F	68.00 °F	70.00 °F	Close

C.png; Added on 2/2/2024 2:47:31 PM by danhainey@cm3inc.com

C-1L Toilet 114

Project / Nether Providence Elementary School / Convectors

Convector

In Progress

		Design	Proposed	Final	Units
Description	C-1L				

Notes

danhainey@cm3inc.com on 2/1/2024 9:55:55 PM:
Overview



Overview.v2.jpg; Added on 2/1/2024 9:55:55 PM by danhainey@cm3inc.com

C-1L TOILET 114 WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	70.9	69.9	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	✔	☐	----
----	Heating Valve	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 6:04:46 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:15:40 PM

C-1L TOILET 114 ISSUES

ISSUE-1256

Project / Nether Providence Elementary School / Convectors / C-1L Toilet 114

Hot water control valve failed to close upon command. : Check control wiring and programming.

Status	Open
Entered	2/1/2024 9:56:28 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM

ISSUE-1265

Project / Nether Providence Elementary School / Convectors / C-1L Toilet 114

Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.

Status	Open
Entered	2/2/2024 2:48:12 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



Convectors

UNIT NAME	SERVES	SPACE TEMP	OCC SETPT	UNOC SETPT	ACTIVE SETPT	HEAT VLV CMD
C-1B	Toilet Rm-112B	73.34 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1C	Toilet Rm-122A	70.96 °F	70.00 °F	68.00 °F	68.00 °F	Close
C-1D	Toilet Rm-104C	73.47 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1E	Rm-104B	74.00 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1F	Rm-102B	86.79 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1G	Boys T-13	73.61 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1H	Girls T-14	73.35 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1I	Toilet T-10	72.39 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1J	Toilet T-12	72.72 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-1K	Toilet Rm-113	71.46 °F	70.00 °F	68.00 °F	68.00 °F	Close
C-1L	Toilet Rm-114	72.76 °F	70.00 °F	68.00 °F	68.00 °F	Close
C-2A	Toilet T-09	74.63 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-2B	Toilet T-11	74.52 °F	70.00 °F	68.00 °F	70.00 °F	Close
C-2C	Rm-217	69.19 °F	70.00 °F	68.00 °F	70.00 °F	Open
C-2D	Rm-217	69.05 °F	70.00 °F	68.00 °F	70.00 °F	Open
FTR-1	Storage ST-4	66.98 °F	70.00 °F	68.00 °F	68.00 °F	Open
FTR-2	Janitor J-02	72.17 °F	70.00 °F	68.00 °F	70.00 °F	Close
FTR-3	2nd Flr A Stor	72.00 °F	70.00 °F	68.00 °F	70.00 °F	Close

C.png; Added on 2/2/2024 2:48:12 PM by danhainey@cm3inc.com

C-2A Toilet T-09

Project / Nether Providence Elementary School / Convectors

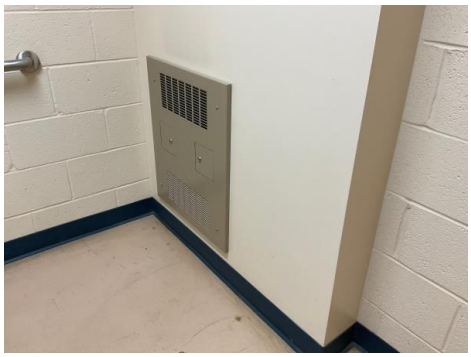
Convector

Complete

		Design	Proposed	Final	Units
Description	C-2A				

Notes

danhainey@cm3inc.com on 1/30/2024 8:19:54 PM:
Overview



Overview.v2.jpg; Added on 1/30/2024 8:19:54 PM by danhainey@cm3inc.com

C-2A TOILET T-09 WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	72.2	74.2	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 6:04:48 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:15:55 PM

C-2A TOILET T-09 ISSUES

ISSUE-1208

Project / Nether Providence Elementary School / Convectors / C-2A Toilet T-09

Hot water control valve failed to close upon command. : Check control wiring and programming.

Status	Open
Entered	1/30/2024 8:18:47 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM

C-2B Toilet T-11

Project / Nether Providence Elementary School / Convectors

Convector

Complete

		Design	Proposed	Final	Units
Description	C-2B				

Notes

danhainey@cm3inc.com on 1/30/2024 8:01:39 PM:
Overview



Overview.v2.jpg; Added on 1/30/2024 8:01:40 PM by danhainey@cm3inc.com

C-2B TOILET T-11 WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	72.8	73.8	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 6:04:49 PM
Marked complete by danhainey@cm3inc.com on 1/30/2024 7:58:55 PM

C-2B TOILET T-11 ISSUES

ISSUE-1207

Project / Nether Providence Elementary School / Convectors / C-2B Toilet T-11

Hot water control valve failed to close upon command. : Check control wiring and programming.

Status	Open
Entered	1/30/2024 8:00:00 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM

C-2C Room 217 Art Storage

Project / Nether Providence Elementary School / Convectors

Convector

Complete

		Design	Proposed	Final	Units
Description	C-2C				

Notes

danhainey@cm3inc.com on 1/31/2024 4:33:03 PM:
Overview



OverviewStorage.v2.jpg; Added on 1/31/2024 4:33:03 PM by danhainey@cm3inc.com

C-2C ROOM 217 ART STORAGE WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.9	69.2	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 6:04:47 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:16:08 PM

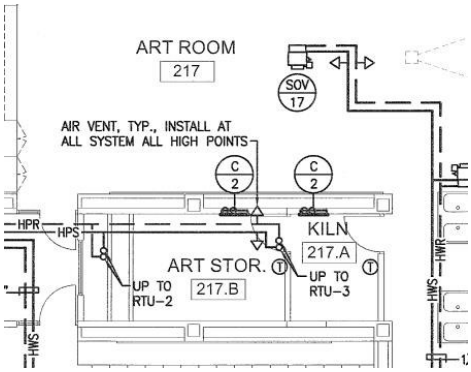
C-2C ROOM 217 ART STORAGE ISSUES

ISSUE-1211

Project / Nether Providence Elementary School / Convectors / C-2C Room 217 Art Storage

Unit is not shown in correct location on BAS floor plan graphic. : Relocate unit to correct location (Art Storage).

Status	Open
Entered	1/31/2024 4:35:31 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM



Art.png; Added on 1/31/2024 4:35:31 PM by danhainey@cm3inc.com

ISSUE-1214

Project / Nether Providence Elementary School / Convectors / C-2C Room 217 Art Storage

Hot water control valve failed to close upon command. : Check control wiring and programming.

Status	Open
Entered	1/31/2024 4:40:32 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM

C-2D Room 217 Kiln

Project / Nether Providence Elementary School / Convectors

Convector

Complete

		Design	Proposed	Final	Units
Description	C-2D				
Area Served	Kiln				

Notes

danhainey@cm3inc.com on 1/31/2024 4:37:35 PM:
Overview



OverviewKiln.v2.jpg; Added on 1/31/2024 4:37:35 PM by danhainey@cm3inc.com

C-2D ROOM 217 KILN WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.7	69.1	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 6:04:47 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:16:24 PM

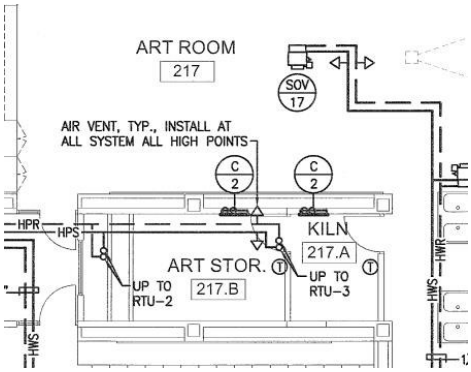
C-2D ROOM 217 KILN ISSUES

ISSUE-1212

Project / Nether Providence Elementary School / Convectors / C-2D Room 217 Kiln

Unit is not shown in correct location on BAS floor plan graphic. : Relocate unit to correct location (Kiln).

Status	Open
Entered	1/31/2024 4:37:16 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM



Art.png; Added on 1/31/2024 4:37:16 PM by danhainey@cm3inc.com

ISSUE-1213

Project / Nether Providence Elementary School / Convectors / C-2D Room 217 Kiln

Hot water control valve failed to close upon command. : Check control wiring and programming.

Status	Open
Entered	1/31/2024 4:39:58 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM

FTR-1 Storage ST-4

Project / Nether Providence Elementary School / Convectors

Fintube

In Progress

		Design	Proposed	Final	Units
Description	FTR-1				

Notes

danhainey@cm3inc.com on 1/31/2024 7:04:37 PM:
Overview



Overview.v2.jpg; Added on 1/31/2024 7:04:37 PM by danhainey@cm3inc.com

FTR-1 STORAGE ST-4 WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	65.7	66.3	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 8:42:33 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:37:20 PM

FTR-1 STORAGE ST-4 ISSUES

ISSUE-1225

Project / Nether Providence Elementary School / Convectors / FTR-1 Storage ST-4

Unit discharge is blocked by ceiling tiles and has little to no ability to heat the space. :
Modify ceiling grid and tiles or install an alternate style of heating unit.

Status	Open
Entered	1/31/2024 7:06:31 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Design
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM



Overview.v2.jpg; Added on 1/31/2024 7:06:32 PM by danhainey@cm3inc.com

ISSUE-1226

Project / Nether Providence Elementary School / Convectors / FTR-1 Storage ST-4

Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.

Status	Open
Entered	1/31/2024 7:08:34 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM

Cabinet Unit Heaters

UNIT NAME	SERVES	SPACE TEMP	OCC SETPT	UNOC SETPT	ACTIVE SETPT	HEAT VLV CMD	FAN CMD
CH-1A	Stair S-2	71.04 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-1B	Stair S-3	73.87 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-2A	Admin 100	75.22 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-2B	Boys T-01	70.36 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-2C	Girls T-02	70.61 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3A	Kitchen	73.96 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
CH-3B	Kitchen	73.24 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
CH-3C	Corr C-11	71.18 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3D	Corr C-11	72.67 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-3E	Stair S-1	66.93 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3F	Corr C-10	72.04 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3G	Corr C-10	72.55 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-4	Corr C-7	0.00 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-5	Corr C-13	72.98 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-6	Outside Toilet	70.64 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-7	Corr C-7	72.97 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-8A	Corr C-8	68.27 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-8B	Corr C-8	67.66 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-9A	Corr By ST-01	-11.84 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-9B	Stage Corr	78.18 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-9C	Rm-112A	69.57 °F	74.00 °F	68.00 °F	74.00 °F	Open	Start
CH-10A	Vest C-1A	73.62 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-10B	Vest C-1A		72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-11	Stair S-01	66.26 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-12A	Lobby	71.14 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-12B	Lobby	72.04 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop

Occupancy.png; Added on 1/31/2024 7:08:35 PM by danhainey@cm3inc.com

FTR-2 Janitor J-02

Project / Nether Providence Elementary School / Convectors

Fintube

Complete

		Design	Proposed	Final	Units
Description	FT-2				

Notes

danhainey@cm3inc.com on 1/30/2024 8:41:17 PM:
Overview



Overview.v2.jpg; Added on 1/30/2024 8:41:18 PM by danhainey@cm3inc.com

FTR-2 JANITOR J-02 WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	70.7	71.5	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 8:42:34 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:37:37 PM

FTR-3 2nd Floor A Storage

Project / Nether Providence Elementary School / Convectors

Fintube

Complete

		Design	Proposed	Final	Units
Description	FT-3				

Notes

danhainey@cm3inc.com on 1/30/2024 8:51:10 PM:
Overview



Overview.v2.jpg; Added on 1/30/2024 8:51:11 PM by danhainey@cm3inc.com

FTR-3 2ND FLOOR A STORAGE WORK

Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.0	71.9	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 8:42:34 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:38:00 PM

Controls

Project / Nether Providence Elementary School / Heat Pump Water Loop

Heating Water System

In Progress

Design	Proposed	Final	Units

CONTROLS WORK

Functional Checklist

Controls Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	HP Loop DP	psi	AI	----	----	----	----	----	----	27.1	☐	☐	☐	----
----	HP Loop DP Setpoint	psi	AI	----	----	----	----	----	----	28.0	☐	✔	☐	----
----	HP Loop DP Valve	%	AO	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
----	Outside Air Temp	Deg F	AI	----	----	----	----	----	47.2	45.0	✔	☐	☐	----
----	Supply Hi Setpoint	Deg F	Stpt	----	----	----	----	----	----	115.0	☐	☐	☐	----
----	Supply Lo Setpoint	Deg F	Stpt	----	----	----	----	----	----	40.0	☐	☐	☐	----
----	OA Low Limit Setpoint	Deg F	Stpt	----	----	----	----	----	----	35.0	☐	☐	☐	----
----	System Enable	On/Off	VBO	OK	----	----	----	----	----	----	✔	☐	☐	----
----	Pump Min Speed	%	Stpt	----	----	----	----	----	----	30.0	☐	☐	☐	----
----	Pump Manual Lead	----	VBO	OK	----	----	----	----	----	----	✔	☐	☐	----
----	Lag Pump Setpoint	%	Stpt	----	----	----	----	----	----	95.0	☐	☐	☐	----
----	System Reset	On/Off	Setpt	----	----	----	----	----	----	Normal	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

In Progress

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/26/2024 6:49:38 PM
Last edit by dmychaluk@cm3inc.com on 2/14/2024 10:16:06 AM

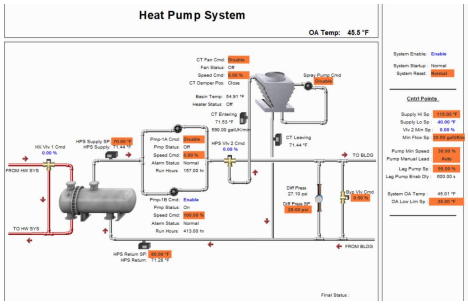
CONTROLS ISSUES

ISSUE-1267

Project / Nether Providence Elementary School / Heat Pump Water Loop / Controls

Points are in fault. : Check integration and programming.

Status	Open
Entered	2/2/2024 3:16:15 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	bencohen@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



HPsystem.png; Added on 2/2/2024 3:16:15 PM by danhainey@cm3inc.com

ISSUE-1291

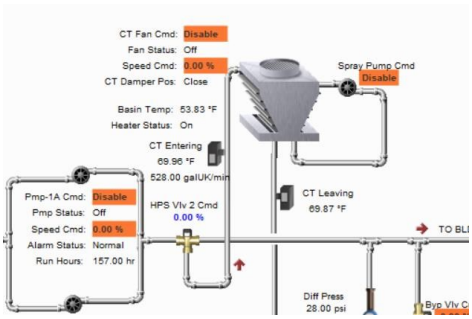
Project / Nether Providence Elementary School / Heat Pump Water Loop / Controls

Cooling tower flow meter reads 522.0 gal/min when there is no water flow to cooling tower.
: Calibrate or replace flow meter.

Status	Open
Entered	2/5/2024 5:29:42 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Calibration
Assigned To	bencohen@cm3inc.com
Respondent Status	Open
Due Date	2/12/2024 12:00:00 AM



FlowMeter.v2.jpg; Added on 2/5/2024 5:29:42 PM by danhainey@cm3inc.com



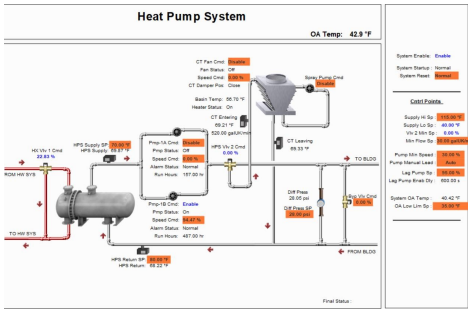
FlowMeter.png; Added on 2/5/2024 5:29:43 PM by danhainey@cm3inc.com

ISSUE-1292

Project / Nether Providence Elementary School / Heat Pump Water Loop / Controls

Graphic is unclear as what setpoint controls the cooling tower (shown as HPS Return SP). This is more likely CT Leaving SP. : Clarify important setpoints and corresponding control.

Status	Open
Entered	2/5/2024 5:39:34 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	bencohen@cm3inc.com
Respondent Status	Open
Due Date	2/12/2024 12:00:00 AM



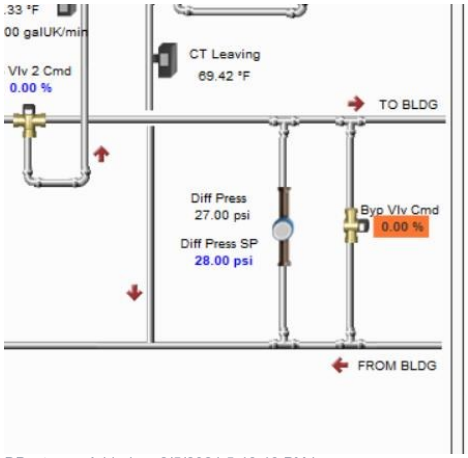
CTHX.png; Added on 2/5/2024 5:39:34 PM by danhainey@cm3inc.com

ISSUE-1293

Project / Nether Providence Elementary School / Heat Pump Water Loop / Controls

System is maintaining a differential setpoint of 28 psi. A more standard energy saving setpoint is 15 psi. : Consider adjusting differential pressure setpoint.

Status	Open
Entered	2/5/2024 5:48:46 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	bencohen@cm3inc.com
Respondent Status	Open
Due Date	2/12/2024 12:00:00 AM



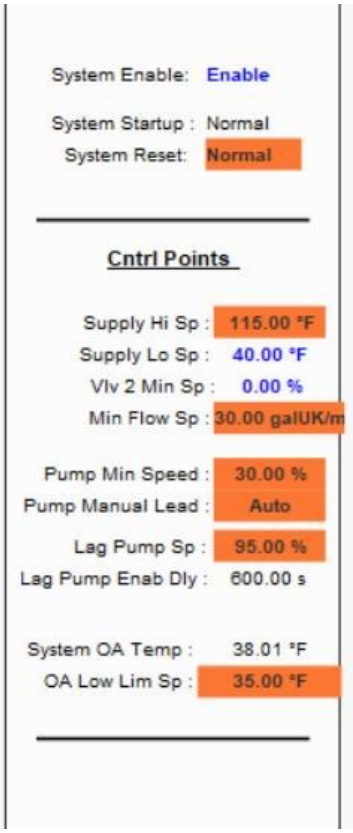
DPset.png; Added on 2/5/2024 5:48:46 PM by danhainey@cm3inc.com

ISSUE-1297

Project / Nether Providence Elementary School / Heat Pump Water Loop / Controls

Graphic is unclear regarding Supply Hi Sp and Supply Lo Sp. Are these alarm setpoints? : Clarify graphic.

Status	Open
Entered	2/5/2024 6:07:09 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	bencohen@cm3inc.com
Respondent Status	Open
Due Date	2/12/2024 12:00:00 AM



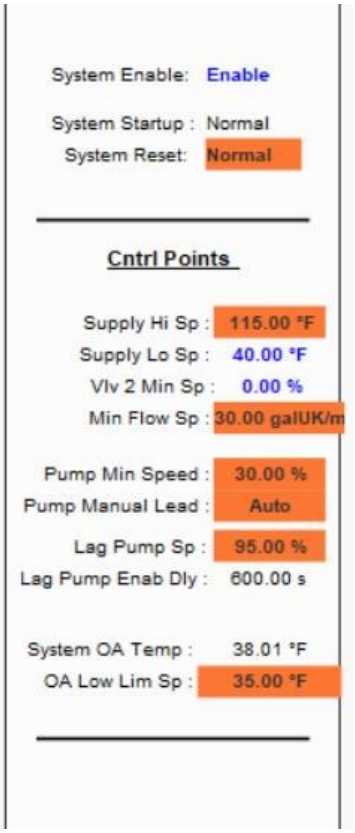
Setpoints.png; Added on 2/5/2024 6:07:09 PM by danhainey@cm3inc.com

ISSUE-1298

Project / Nether Providence Elementary School / Heat Pump Water Loop / Controls

What is the purpose of OA Low Lim Sp? : Clarify graphics.

Status	Open
Entered	2/5/2024 6:08:16 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	bencohen@cm3inc.com
Respondent Status	Open
Due Date	2/12/2024 12:00:00 AM



Setpoints.png; Added on 2/5/2024 6:08:16 PM by danhainey@cm3inc.com

Cooling Tower

Project / Nether Providence Elementary School / Heat Pump Water Loop

Cooling Tower

In Progress

Design	Proposed	Final	Units

Notes

danhainey@cm3inc.com on 2/2/2024 3:52:34 PM:
Overview



CoolingTower.v2.jpg; Added on 2/2/2024 3:52:34 PM by danhainey@cm3inc.com

COOLING TOWER WORK

Functional Checklist

Cooling Tower Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	CT Bypass Valve	%	AO	----	ok	ok	ok	----	----	0.0	✔	☐	☐	----
----	CT Entering Temp	Deg F	AI	----	----	----	----	----	----	69.4	☐	☐	☐	----
----	CT Leaving Temp	Deg F	AI	----	----	----	----	----	----	69.4	☐	☐	☐	----
----	CT Flow Meter	GPM	AI	----	----	----	----	----	----	590	☐	☐	☐	----
----	CT Fan Cmd	On/Off	BO	----	----	----	----	----	----	Disable	☐	☐	☐	----
----	CT Fan Status	On/Off	BI	----	----	----	----	----	----	Off	☐	☐	☐	----
----	CT Fan Speed	%	AO	----	----	----	----	----	----	0.0	☐	☐	☐	----
----	CT Basin Temp	Deg F	AI	----	----	----	----	----	----	54.9	☐	☐	☐	----
----	CT Spray Pump	On/Off	BO	----	----	----	----	----	----	Disable	☐	☐	☐	----
----	CT Damper Position	On/Off	BO	----	----	----	----	----	----	Close	☐	☐	☐	----
----	CT Heater Status	On/Off	BI	----	----	----	----	P	----	On	☐	☐	☐	----
----	Min Flow Setpoint	GPM	Setpt	----	----	----	----	----	----	30.0	☐	☐	☐	----
----	CT Bypass Valve Min	%	Setpt	----	----	----	----	----	----	0.0	☐	☐	☐	----
----	CT Return Setpoint	Deg F	Setpt	----	----	----	----	----	----	80.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

In Progress
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 2/6/2024 10:05:52 AM
Last edit by dmychaluk@cm3inc.com on 2/16/2024 2:21:51 PM

COOLING TOWER ISSUES

ISSUE-1296

Project / Nether Providence Elementary School / Heat Pump Water Loop / Cooling Tower

Leak noted at cooling tower makeup. : Repair leak and replace insulation as required.

Status	Open
Entered	2/5/2024 5:59:58 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/12/2024 12:00:00 AM



Leak.v2.jpg; Added on 2/5/2024 5:59:58 PM by danhainey@cm3inc.com

ISSUE-1314

Project / Nether Providence Elementary School / Heat Pump Water Loop / Cooling Tower

Cooling tower flow sensor shows 597 GPM however the pump is off and valve shows closed on the BAS. Water flow was not noted in the tower : Recommend replacement of the tower flow sensor

Status	Open
Entered	2/16/2024 2:15:38 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/23/2024 12:00:00 AM

ISSUE-1315

Project / Nether Providence Elementary School / Heat Pump Water Loop / Cooling Tower

Cooling tower air louver cells are compacted with scale and moss growth. Sealed coil is beginning to rust and has significant calcification. Replacement of the cells and coil should be considered. Replacement of the tower may be warranted.

Status	Open
Entered	2/19/2024 5:20:09 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/26/2024 12:00:00 AM



PXL_20240216_193940464.jpg; Added on 2/19/2024 5:20:09 PM by dmychaluk@cm3inc.com



PXL_20240216_194332325.jpg; Added on 2/19/2024 5:20:09 PM by dmychaluk@cm3inc.com



43054254_PXL_20240215_203519823 (1).jpg; Added on 2/19/2024 5:21:43 PM by dmychaluk@cm3inc.com

ISSUE-1320

Project / Nether Providence Elementary School / Heat Pump Water Loop / Cooling Tower

Cooling tower chemical feed is enclosed in a residential style Rubbermaid storage unit. The chemical feed has power and appears to be active. However this is an unprofessional installation and should be moved into the mechanical room and plumbed out to the tower as needed.

Status	Open
Entered	2/28/2024 10:13:33 AM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	3/6/2024 12:00:00 AM



PXL_20240215_203707244.jpg; Added on 2/28/2024 10:13:33 AM by dmychaluk@cm3inc.com



PXL_20240215_203714258.jpg; Added on 2/28/2024 10:13:33 AM by dmychaluk@cm3inc.com

CWP-1A

Project / Nether Providence Elementary School / Heat Pump Water Loop

Pump

Complete

		Design	Proposed	Final	Units
Association	Heat Pump Loop				

Notes

danhainey@cm3inc.com on 2/2/2024 3:53:37 PM:
Overview and Nameplate



CWP1A.v2.jpg; Added on 2/2/2024 3:53:38 PM by danhainey@cm3inc.com



CWP1ANameplate.v2.jpg; Added on 2/2/2024 3:53:38 PM by danhainey@cm3inc.com



1Avfd.v2.jpg; Added on 2/5/2024 4:54:01 PM by danhainey@cm3inc.com

CWP-1A WORK

Functional Checklist

Pump Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Pump Command	On/Off	BO	Ok	----	----	----	----	----	----	✔	☐	☐	----
----	Pump Status	On/Off	BI	----	----	----	----	Ok	----	----	✔	☐	☐	----
----	Pump Speed	%	AO	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
----	Pump Alarm Status	On/Off	BI	----	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 2/6/2024 10:05:51 AM
Marked complete by dmychaluk@cm3inc.com on 2/14/2024 10:13:47 AM

CWP-1B

Project / Nether Providence Elementary School / Heat Pump Water Loop

Pump

Complete

		Design	Proposed	Final	Units
Association	Heat Pump Loop				

Notes

danhainey@cm3inc.com on 2/2/2024 3:54:33 PM:
Overview and Nameplate



CWP1B.v2.jpg; Added on 2/2/2024 3:54:33 PM by danhainey@cm3inc.com



CWP1BNameplate.v2.jpg; Added on 2/2/2024 3:54:33 PM by danhainey@cm3inc.com



1Bvfd.v2.jpg; Added on 2/5/2024 4:55:13 PM by danhainey@cm3inc.com

CWP-1B WORK

Functional Checklist

Pump Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Pump Command	On/Off	BO	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Pump Status	On/Off	BI	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Pump Speed	%	AO	----	ok	ok	ok	----	----	----	✔	☐	☐	----
----	Pump Alarm Status	On/Off	BI	----	----	----	----	ok	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 2/6/2024 10:05:51 AM
Marked complete by dmychaluk@cm3inc.com on 2/14/2024 10:12:36 AM

Heat Exchanger

Project / Nether Providence Elementary School / Heat Pump Water Loop

Heat Exchanger

In Progress

Design	Proposed	Final	Units

Notes

danhainey@cm3inc.com on 2/5/2024 5:52:34 PM:
Overview



HeatX.v2.jpg; Added on 2/5/2024 5:52:35 PM by danhainey@cm3inc.com

HEAT EXCHANGER WORK

Functional Checklist

Heat Exchanger Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Heat X Ret Temp	Deg F	AI	----	----	----	----	----	70	68.2	✔	☐	☐	----
----	Heat X Sup Temp	Deg F	AI	----	----	----	----	----	70	70.1	✔	☐	☐	----
----	Heat X Bypass valve	%	AO	----	ok	ok	ok	----	----	----	✔	☐	☐	----
----	Heat X Sup Setpt	Deg F	Setpt	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 2/6/2024 10:27:07 AM
Marked complete by dmychaluk@cm3inc.com on 2/16/2024 2:21:03 PM

HEAT EXCHANGER ISSUES

ISSUE-1294

Project / Nether Providence Elementary School / Heat Pump Water Loop / Heat Exchanger

Insulation missing on hot water return piping. : Repair pipe insulation.

Status	Open
Entered	2/5/2024 5:52:11 PM
Entered By	danhainey@cm3inc.com
Priority	Energy
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/12/2024 12:00:00 AM



Insulation.v2.jpg; Added on 2/5/2024 5:52:12 PM by danhainey@cm3inc.com

ISSUE-1295

Project / Nether Providence Elementary School / Heat Pump Water Loop / Heat Exchanger

Leak noted around hot water control valve. : Monitor or repair leaks as required.

Status	Open
Entered	2/5/2024 5:55:08 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/12/2024 12:00:00 AM



HeatExLeak.v2.jpg; Added on 2/5/2024 5:55:09 PM by danhainey@cm3inc.com

Boiler-1

Project / Nether Providence Elementary School / Hot Water Plant

Boiler

Complete

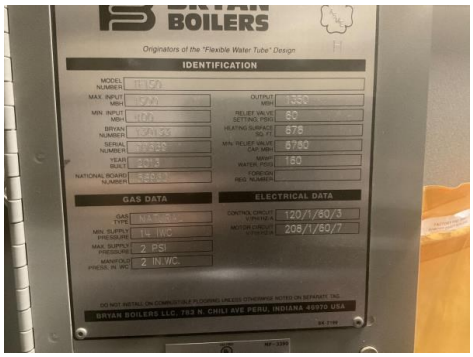
Design	Proposed	Final	Units

Notes

danhainey@cm3inc.com on 2/2/2024 3:55:31 PM:
Overview and Nameplate



Boiler1.v2.jpg; Added on 2/2/2024 3:55:31 PM by danhainey@cm3inc.com



Boiler1Nameplate.v2.jpg; Added on 2/2/2024 3:55:31 PM by danhainey@cm3inc.com

BOILER-1 WORK

Functional Checklist

Boiler Plant Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Boiler Cmd	On/Off	BO	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Boiler Status	On/Off	BI	----	----	----	----	Ok	----	----	✔	☐	☐	----
----	Boiler Flow Status	On/Off	BI	----	----	----	----	Ok	----	----	✔	☐	☐	----
----	Alarm Status	On/Off	BI	----	----	----	----	OK	----	----	✔	☐	☐	----
----	Boiler Supply Temp	Deg F	AI	----	----	----	----	----	163	159	✔	☐	☐	----
----	Boiler Return Temp	Deg F	AI	----	----	----	----	----	154	156	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 2/6/2024 10:05:48 AM
Marked complete by dmychaluk@cm3inc.com on 2/16/2024 2:05:32 PM

Boiler-2

Project / Nether Providence Elementary School / Hot Water Plant

Boiler

Complete

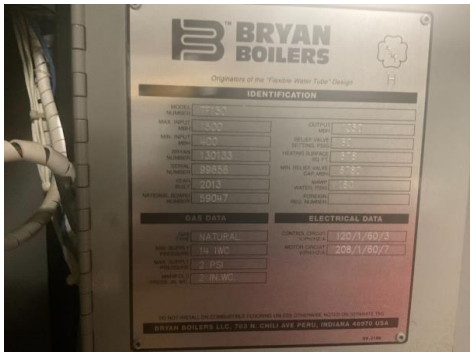
Design	Proposed	Final	Units

Notes

danhainey@cm3inc.com on 2/2/2024 3:56:20 PM:
Overview and Nameplate



Boiler2.v2.jpg; Added on 2/2/2024 3:56:20 PM by danhainey@cm3inc.com



Boiler2Nameplate.v2.jpg; Added on 2/2/2024 3:56:20 PM by danhainey@cm3inc.com

BOILER-2 WORK

Functional Checklist

Boiler Plant Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Boiler Cmd	On/Off	BO	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Boiler Status	On/Off	BI	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Boiler Flow Status	On/Off	BI	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Alarm Status	On/Off	BI	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Boiler Supply Temp	Deg F	AI	----	----	----	----	----	141	140.7	✔	☐	☐	----
----	Boiler Return Temp	Deg F	AI	----	----	----	----	----	140	140.5	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 2/6/2024 10:05:48 AM
Marked complete by dmychaluk@cm3inc.com on 2/16/2024 2:10:31 PM

HWP-2A

Project / Nether Providence Elementary School / Hot Water Plant

Pump

Complete

Design	Proposed	Final	Units

Notes

danhainey@cm3inc.com on 2/2/2024 3:58:29 PM:
Overview and Nameplate



HWP2A.v2.jpg; Added on 2/2/2024 3:58:30 PM by danhainey@cm3inc.com



HWP2ANameplate.v2.jpg; Added on 2/2/2024 3:58:30 PM by danhainey@cm3inc.com



2Avfd.v2.jpg; Added on 2/5/2024 4:56:02 PM by danhainey@cm3inc.com

HWP-2A WORK

Functional Checklist

Pump Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Pump Cmd	On/Off	BO	OK	----	----	----	----	----	----	✔	☐	☐	----
----	Pump Status	On/Off	BI	----	----	----	----	OK	----	----	✔	☐	☐	----
----	Pump Alarm	On/Off	BI	----	----	----	----	OK	----	----	✔	☐	☐	----
----	Pump VFD Speed	%	AO	----	----	----	----	----	----	----	☐	✔	☐	Not on graphic
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 2/6/2024 10:05:49 AM
Marked complete by dmychaluk@cm3inc.com on 2/14/2024 10:09:55 AM

HWP-2B

Project / Nether Providence Elementary School / Hot Water Plant

Pump

Complete

Design	Proposed	Final	Units

Notes

danhainey@cm3inc.com on 2/2/2024 3:59:34 PM:
Overview and Nameplate



HWP2B.v2.jpg; Added on 2/2/2024 3:59:35 PM by danhainey@cm3inc.com



HWP2BNameplate.v2.jpg; Added on 2/2/2024 3:59:35 PM by danhainey@cm3inc.com



2bvfd.v2.jpg; Added on 2/5/2024 4:56:38 PM by danhainey@cm3inc.com

HWP-2B WORK

Functional Checklist

Boiler Plant Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Pump Cmd	On/Off	BI	OK	----	----	----	----	----	----	✔	☐	☐	----
----	Pump Status	On/Off	BI	----	----	----	----	OK	----	----	✔	☐	☐	----
----	Pump Alarm	On/Off	BI	----	----	----	----	----	----	----	✔	☐	☐	----
----	Pump VFD Speed	%	AO	----	----	----	----	----	----	----	☐	✔	☐	Not on graphic
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 2/6/2024 10:05:49 AM
Marked complete by dmychaluk@cm3inc.com on 2/14/2024 10:17:18 AM

HWP-3A

Project / Nether Providence Elementary School / Hot Water Plant

Pump

Complete

		Design	Proposed	Final	Units
Association	Boiler-1				

Notes

danhainey@cm3inc.com on 2/5/2024 4:52:08 PM:
Overview



3Apump.v2.jpg; Added on 2/5/2024 4:52:08 PM by danhainey@cm3inc.com



P3Astarter.v2.jpg; Added on 2/5/2024 4:52:08 PM by danhainey@cm3inc.com

HWP-3A WORK

Functional Checklist

Pump Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Pump Cmd	On/Off	BO	Ok	----	----	----	----	----	----	☐	☐	☐	----
----	Pump Status	On/Off	BI	----	----	----	----	OK	----	----	☐	☐	☐	----
----	Pump Alarm	On/Off	BI	----	----	----	----	OK	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 2/6/2024 10:05:50 AM
Marked complete by dmychaluk@cm3inc.com on 2/14/2024 10:09:16 AM

HWP-3B

Project / Nether Providence Elementary School / Hot Water Plant

Pump

Complete

		Design	Proposed	Final	Units
Association	Boiler-2				

Notes

danhainey@cm3inc.com on 2/5/2024 4:53:04 PM:
Overview



3Bpump.v2.jpg; Added on 2/5/2024 4:53:05 PM by danhainey@cm3inc.com



P3Bstarter.v2.jpg; Added on 2/5/2024 4:53:05 PM by danhainey@cm3inc.com

HWP-3B WORK

Functional Checklist

Pump Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Pump Cmd	On/Off	BO	Ok	----	----	----	----	----	----	✔	☐	☐	----
----	Pump Status	On/Off	BI	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Pump Alarm	On/Off	BI	----	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 2/6/2024 10:05:50 AM
Marked complete by dmychaluk@cm3inc.com on 2/14/2024 10:08:34 AM

HWS-Controls

Project / Nether Providence Elementary School / Hot Water Plant

Heating Water System

In Progress

Design	Proposed	Final	Units

HWS-CONTROLS WORK

Functional Checklist

Boiler Plant Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS Reading	Pass	Fail	NA	Comments
----	Hot Water Return Temp	Deg F	AI	----	----	----	----	----	154	156	✔	☐	☐	----
----	Hot Water Supply Temp	Deg F	AI	----	----	----	----	----	161	159.1	✔	☐	☐	----
----	HW Supply Temp Setpt	Deg F	Setpt	----	----	----	----	----	----	150.0	✔	☐	☐	----
----	OA Temp	Deg F	AI	----	----	----	----	----	46.5	45.0	✔	☐	☐	----
----	HW DP Valve	%	AO	----	OK	OK	OK	----	----	----	✔	☐	☐	----
----	Hot Water DP Setpt	psi	Setpt	----	----	----	----	----	----	10.0	✔	☐	☐	----
----	Hot Water DP	psi	AI	----	----	----	----	----	----	8.4	✔	☐	☐	----
----	Operator Enable	On/Off	Setpt	----	----	----	----	----	----	Enable	✔	☐	☐	----
----	OA Enable Setpt	Deg F	Setpt	----	----	----	----	----	----	62.0	✔	☐	☐	----
----	HW Return Low Setpt	Deg F	Setpt	----	----	----	----	----	----	140.0	✔	☐	☐	----
----	Lag Boiler Enable	On/Off	Setpt	----	----	----	----	----	----	Enable	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/26/2024 6:50:10 PM
Marked complete by dmychaluk@cm3inc.com on 2/16/2024 2:09:09 PM

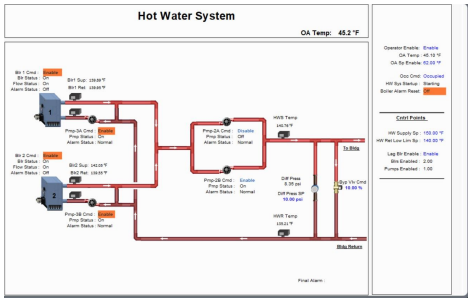
HWS-CONTROLS ISSUES

ISSUE-1268

Project / Nether Providence Elementary School / Hot Water Plant / HWS-Controls

System has points in fault. : Check controller and programming.

Status	Open
Entered	2/2/2024 3:18:05 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	bencohen@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



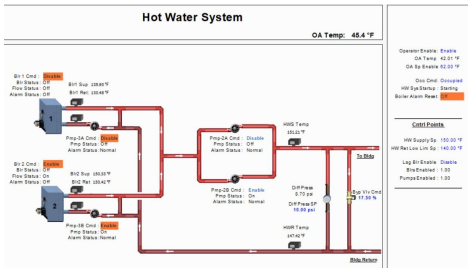
HWsystem.png; Added on 2/2/2024 3:18:05 PM by danhainey@cm3inc.com

ISSUE-1289

Project / Nether Providence Elementary School / Hot Water Plant / HWS-Controls

Pump 2A and Pump 2B are each equipped with a VFD. BAS graphic does not illustrate VFD speed command. : Add VFD speed command for each pump to graphic.

Status	Open
Entered	2/5/2024 5:07:26 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	bencohen@cm3inc.com
Respondent Status	Open
Due Date	2/12/2024 12:00:00 AM



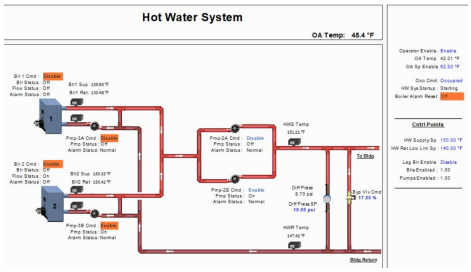
VFDspeed.png; Added on 2/5/2024 5:07:26 PM by danhainey@cm3inc.com

ISSUE-1290

Project / Nether Providence Elementary School / Hot Water Plant / HWS-Controls

Differential pressure setpoint is unable to be maintained. Differential pressure setpoint is 10 psi, and actual is 8.7 psi with bypass valve 17.5 % open. Check VFD functionality and programming.

Status	Open
Entered	2/5/2024 5:12:31 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	bencohen@cm3inc.com
Respondent Status	Open
Due Date	2/12/2024 12:00:00 AM



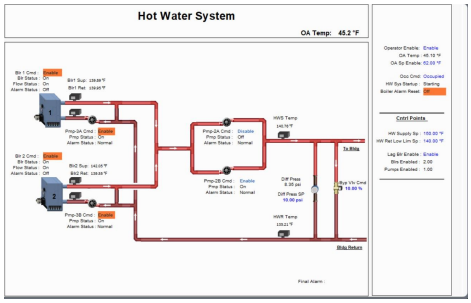
VFDspeed.png; Added on 2/5/2024 5:12:31 PM by danhainey@cm3inc.com

ISSUE-1311

Project / Nether Providence Elementary School / Hot Water Plant / HWS-Controls

Outside air temperature is 45 degrees F in late afternoon. Two boilers are enabled, where 1 is likely sufficient. : Check boiler drop / add programming.

Status	Open
Entered	2/6/2024 12:10:27 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	bencohen@cm3inc.com
Respondent Status	Open
Due Date	2/13/2024 12:00:00 AM



HWsystem.png; Added on 2/6/2024 12:10:27 PM by danhainey@cm3inc.com

ERU-6

Project / Nether Providence Elementary School / Rooftop Units

ERU

In Progress

Design	Proposed	Final	Units

Notes

dmychaluk@cm3inc.com on 1/25/2024 5:05:23 PM:
Unit nameplate and overview



54970966_1000010695.v2.jpg; Added on 1/25/2024 5:30:54 PM
by dmychaluk@cm3inc.com



55361597_1000010696.v2.jpg; Added on 1/25/2024 5:30:55 PM
by dmychaluk@cm3inc.com

ERU-6 WORK

Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Recovery wheel cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	recovery wheel sts	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	OA Damper Cmd	%	----	----	ok	ok	ok	----	----	----	✔	☐	☐	----
----	Reheat Valve Cmd	%	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan VFD Speed	%	----	----	ok	ok	ok	----	----	----	✔	☐	☐	----
----	OaFlow Sensor	CFM	----	----	----	----	----	----	----	1388	✔	☐	☐	----
----	Return Air Temperature	Deg F	----	----	----	----	----	----	70.5	70.3	✔	☐	☐	----
----	Discharge Air Temperature	DegF	----	----	----	----	----	----	67.9	68.7	✔	☐	☐	----
----	Discharge Air Humidity	%Rh	----	----	----	----	----	----	53.4	51	✔	☐	☐	----
----	Filter Status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Alarm	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Sts	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan En	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Exhaust Fan En	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Exhaust Fan sts	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Compressor 1 Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2 Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Reheat Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Reversing Valve En	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Isolation Valve Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Isolation Valve status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Building Pressure	InWc	----	----	----	----	----	----	0.04	4.9	☐	✔	☐	----
----	DuctStatic Pressure	InWc	----	----	----	----	----	----	----	----	☐	☐	✔	----

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Discharge Air Setpnt	SetPnt	----	----	----	----	----	----	----	75	✔	☐	☐	----
----	Building Pressure Stpnt	SetPnt	----	----	----	----	----	----	----	0.01	✔	☐	☐	----
----	OaFlow Setpnt	SetPnt	----	----	----	----	----	----	----	1000	✔	☐	☐	----
----	Occupied Cool DAT Setpoint	SetPnt	----	----	----	----	----	----	----	80	✔	☐	☐	----
----	Occupied Heat DAT Setpoint	SetPnt	----	----	----	----	----	----	----	75	✔	☐	☐	----
----	SFMinSpd	SetPnt	----	----	----	----	----	----	----	65	✔	☐	☐	----
----	Discharge Air Humdiity Sepoint	SetPnt	----	----	----	----	----	----	----	60	✔	☐	☐	----
----	Occupancy Cmd	VDO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 4:35:43 PM
Marked complete by dmychaluk@cm3inc.com on 1/25/2024 5:47:55 PM

ERU-6 ISSUES

ISSUE-1141

Project / Nether Providence Elementary School / Rooftop Units / ERU-6

Unit has a compressor lockout error code. : Recommend troubleshooting compressor circuits for issues.

Status	Open
Entered	1/25/2024 5:06:23 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



45562677_17062221004339184157039544923538.v2.jpg;
Added on 1/25/2024 5:35:45 PM by dmychaluk@cm3inc.com

ISSUE-1142

Project / Nether Providence Elementary School / Rooftop Units / ERU-6

Failed space static sensor in the controller shows 4.99 causing the exhaust fan to run at 60hz. display for space static shows .04. recommend replacement of controller or correcting logic int eh comfort point controller.

Status	Open
Entered	1/25/2024 5:29:55 PM
Entered By	dmychaluk@cm3inc.com
Priority	Energy
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



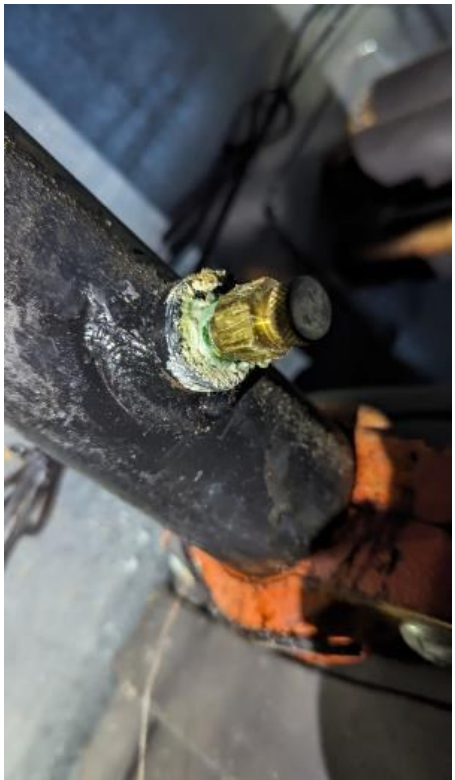
21378059_17062221633462099121332432408930.v2.jpg;
Added on 1/25/2024 5:36:21 PM by dmychaluk@cm3inc.com

ISSUE-1143

Project / Nether Providence Elementary School / Rooftop Units / ERU-6

Water leak or water intrusion found in the condenser water loop cabinet. : Recommend locating and correcting leak/or penetration as needed.

Status	Open
Entered	1/25/2024 5:38:00 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



09647723_1000010704.v2.jpg; Added on 1/25/2024 5:41:09 PM by dmychaluk@cm3inc.com



10007106_1000010705.v2.jpg; Added on 1/25/2024 5:41:10 PM by dmychaluk@cm3inc.com



10428990_1000010702.v2.jpg; Added on 1/25/2024 5:41:10 PM by dmychaluk@cm3inc.com



10772753_1000010698.v2.jpg; Added on 1/25/2024 5:41:10 PM
by dmychaluk@cm3inc.com



11163387_1000010697.v2.jpg; Added on 1/25/2024 5:41:11 PM
by dmychaluk@cm3inc.com

ERU-7

Project / Nether Providence Elementary School / Rooftop Units

ERU

In Progress

Design	Proposed	Final	Units

Notes

dmychaluk@cm3inc.com on 1/25/2024 6:06:34 PM:
Unit nameplate and overview

ERU-7 WORK

Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Recovery wheel	DO	----	Ok	----	----	----	----	----	----	✔	☐	☐	----
----	Recovery Wheel Sts	DI	----	----	----	----	----	OK	----	----	✔	☐	☐	----
----	OA Damper Cmd	%	----	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
----	Reheat Valve Cmd	%	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan VFD Speed	%	----	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
----	OaFlow Sensor	CFM	----	----	----	----	----	----	----	1048	☐	✔	☐	----
----	Return Air Temperature	Deg F	----	----	----	----	----	----	70.9	68.5	✔	☐	☐	----
----	Discharge Air Temperature	DegF	----	----	----	----	----	----	68.2	68.1	✔	☐	☐	----
----	Discharge Air Humidity	%Rh	----	----	----	----	----	----	53.9	53.9	✔	☐	☐	----
----	Filter Status	DI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Alarm	DI	----	----	----	----	----	Ok	----	----	✔	☐	☐	----
----	Supply Fan Sts	DI	----	----	----	----	----	Ok	----	----	✔	☐	☐	----
----	Supply Fan En	DO	----	OK	----	----	----	----	----	----	✔	☐	☐	----
----	Exhaust Fan En	DO	----	Ok	----	----	----	----	----	----	✔	☐	☐	----
----	Exhaust Fan sts	DI	----	----	----	----	----	Ok	----	----	✔	☐	☐	----
----	Compressor 1 Cmd	DO	----	Ok	----	----	----	----	----	----	✔	☐	☐	Controls functional mechanical operation failed
----	Compressor 2 Cmd	DO	----	Ok	----	----	----	----	----	----	✔	☐	☐	----
----	Reheat Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Reversing Valve En	DO	----	Ok	----	----	----	----	----	----	✔	☐	☐	----
----	Isolation Valve Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Isolation Valve status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Building Pressure	InWc	----	----	----	----	----	----	----	0.01	✔	☐	☐	----
----	DuctStatic Pressure	InWc	----	----	----	----	----	----	----	----	☐	☐	✔	----

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Discharge Air Setpnt	SetPnt	----	----	----	----	----	----	----	75	✔	☐	☐	----
----	Building Pressure Stpnt	SetPnt	----	----	----	----	----	----	----	0.01	✔	☐	☐	----
----	OaFlow Setpnt	SetPnt	----	----	----	----	----	----	----	1000	✔	☐	☐	----
----	Occupied Cool DAT Setpoint	SetPnt	----	----	----	----	----	----	----	75	✔	☐	☐	----
----	Occupied Heat DAT Setpoint	SetPnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
----	SFMinSpd	SetPnt	----	----	----	----	----	----	----	65	✔	☐	☐	----
----	Discharge Air Humdiity Sepoint	SetPnt	----	----	----	----	----	----	----	60	✔	☐	☐	----
----	Occupancy Cmd	VDO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	OAtemp	----	----	----	----	----	----	----	51.5	52.2	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 4:41:56 PM
Marked complete by dmychaluk@cm3inc.com on 1/25/2024 6:13:16 PM

ERU-7 ISSUES

ISSUE-1144

Project / Nether Providence Elementary School / Rooftop Units / ERU-7

AAON controller shows a compressor lockout fault code. Neither compressor is enabling when the BAS calls for a compressor run. : Recommend troubleshooting compressor circuit.

Status	Open
Entered	1/25/2024 6:08:18 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM

ISSUE-1145

Project / Nether Providence Elementary School / Rooftop Units / ERU-7

OA flow sensor has a insect nest built over the flow sampling tubes and will prevent accurate flow measurement resulting in excessive OA intake. : recommend following manufactures cleaning and maintenance of sampling tubes.

Status	Open
Entered	1/25/2024 6:16:46 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



05394761_1000010711.v2.jpg; Added on 1/25/2024 6:27:05 PM
by dmychaluk@cm3inc.com

ISSUE-1146

Project / Nether Providence Elementary School / Rooftop Units / ERU-7

Exhaust fan Binary command not enabling drive to run status. Drive speed signal modulates as expected. : Recommending the comfort-point controller be programmed or replaced.

Status	Open
Entered	1/25/2024 6:26:30 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



05408236_1000010716.v2.jpg; Added on 1/25/2024 6:28:05 PM
by dmychaluk@cm3inc.com

ERU-8

Project / Nether Providence Elementary School / Rooftop Units

ERU

In Progress

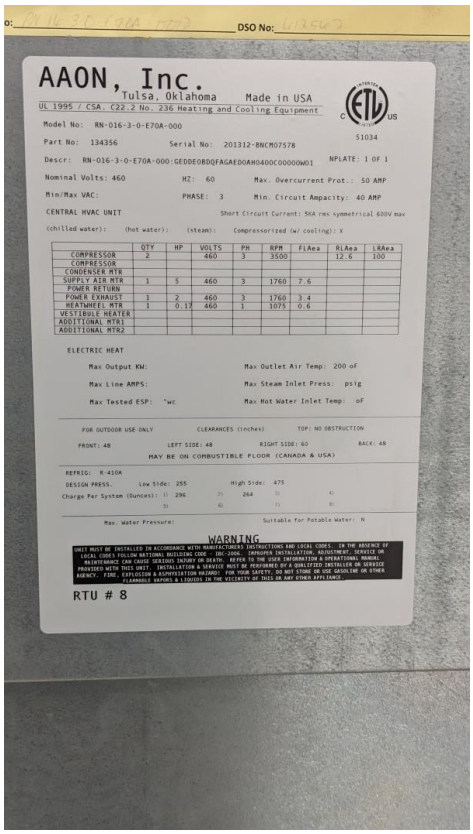
Design | Proposed | Final | Units

Notes

dmychaluk@cm3inc.com on 1/26/2024 3:47:37 PM:
Unit nameplate and overview



PXL_20240126_204617276.v2.jpg; Added on 1/26/2024 3:47:38 PM by dmychaluk@cm3inc.com



PXL_20240126_204636258.v2.jpg; Added on 1/26/2024 3:47:38 PM by dmychaluk@cm3inc.com

ERU-8 WORK

Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Recovery Wheel Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Recovery Wheel Sts	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	OA Damper Cmd	%	----	----	----	----	bad	----	----	----	☐	✔	☐	----
----	Reheat Valve Cmd	%	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan VFD Speed	%	----	----	ok	ok	ok	----	----	----	✔	☐	☐	----
----	OaFlow Sensor	CFM	----	----	----	----	----	----	----	1913	✔	☐	☐	----
----	Return Air Temperature	Deg F	----	----	----	----	----	----	71.7	70.7	✔	☐	☐	----
----	Discharge Air Temperature	DegF	----	----	----	----	----	----	72.7	71.5	✔	☐	☐	----
----	Discharge Air Humidity	%Rh	----	----	----	----	----	----	47.4	47	✔	☐	☐	----
----	Filter Status	DI	----	----	----	----	----	Ok	----	----	✔	☐	☐	----
----	Supply Fan Alarm	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Sts	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan En	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Exhaust Fan En	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Exhaust Fan sts	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Compressor 1 Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2 Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Reheat Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Reversing Valve En	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Isolation Valve Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Isolation Valve status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Building Pressure	InWc	----	----	----	----	----	----	0.15	0.0	☐	✔	☐	----
----	Discharge Air Setpnt	SetPnt	----	----	----	----	----	----	----	55	✔	☐	☐	----

Functional Checklist And Issues Log

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Building Pressure Stpnt	SetPnt	----	----	----	----	----	----	----	0.01	✔	☐	☐	----
----	OaFlow Setpnt	SetPnt	----	----	----	----	----	----	----	1000	✔	☐	☐	----
----	Occupied Cool DAT Setpoint	SetPnt	----	----	----	----	----	----	----	75	✔	☐	☐	----
----	Occupied Heat DAT Setpoint	SetPnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
----	SFMinSpd	SetPnt	----	----	----	----	----	----	----	50	✔	☐	☐	----
----	Discharge Air Humdiity Sepoint	SetPnt	----	----	----	----	----	----	----	60	✔	☐	☐	----
----	Occupancy Cmd	VDO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 4:41:56 PM
Marked complete by dmychaluk@cm3inc.com on 1/26/2024 4:34:06 PM

ERU-8 ISSUES

ISSUE-1168

Project / Nether Providence Elementary School / Rooftop Units / ERU-8

BAS shows 0.0 for building static, actual is 0.10 on sensor display. : Recommend verification of integration and correction of programming within the comfort point controller if needed.

Status	Open
Entered	1/26/2024 4:17:07 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM

ISSUE-1169

Project / Nether Providence Elementary School / Rooftop Units / ERU-8

Discharge humidity setpoint has no effect on unit operation. : recommend correction of setpoint programming within the comfort point controller.

Status	Open
Entered	1/26/2024 4:31:51 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM

RTU-1 Administration

Project / Nether Providence Elementary School / Rooftop Units

RTU

In Progress

Design	Proposed	Final	Units

Notes

dmychaluk@cm3inc.com on 1/24/2024 4:37:58 PM:
Unit nameplate and overview



1000010627.v2.jpg; Added on 1/24/2024 4:37:58 PM by dmychaluk@cm3inc.com

RTU-1 ADMINISTRATION WORK

Pre-Functional Checklist

AHU Pre-Functional Checklist

Inspection and Verification	Pass	Fail	NA	Comments
Integrity of insulation on pipework	✔	☐	☐	----
Integrity of door seals and panel penetrations	✔	☐	☐	----
Heating, Cooling, and Preheat Coil condition and cleanliness	☐	✔	☐	----
Filter condition and cleanliness	✔	☐	☐	----
Filter block off plate and seal integrity	✔	☐	☐	----
Decking and curb for roof mounted equipment is insulated and airtight	✔	☐	☐	----
Sensor locations follow best practices	✔	☐	☐	----
Condensate pan clean and flowing properly	✔	☐	☐	----
Flex connection from blower motor to duct transition is intact and free from tearing	☐	☐	✔	----
Outside air damper blade seals are intact and sealing properly	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:31:33 PM
Marked complete by dmychaluk@cm3inc.com on 2/14/2024 10:06:47 AM

Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	OA Damper Cmd	%	----	----	ok	ok	ok	----	----	----	✔	☐	☐	----
----	Reheat Valve Cmd	%	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	SFVFDSpd	%	----	----	ok	ok	ok	----	----	----	✔	☐	☐	----
----	OaFlow Sensor	CFM	----	----	----	----	----	----	----	1475	✔	☐	☐	----
----	Return Air Temperature	Deg F	----	----	----	----	----	----	71.2	72	✔	☐	☐	----
----	Discharge Air Temperature	DegF	----	----	----	----	----	----	66	67.03	✔	☐	☐	----
----	Filter Status	DI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Alarm	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Sts	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan En	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 1 Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2 Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Reheat Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Reversing Valve En	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Isolation Valve Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Isolation Valve status	DI	----	----	----	----	----	----	ok	----	✔	☐	☐	----
----	Building Pressure	InWc	----	----	----	----	----	----	0.01	0	✔	☐	☐	----
----	DuctStatic Pressure	InWc	----	----	----	----	----	----	----	1.53	✔	☐	☐	----
----	Discharge Air Setpnt	SetPnt	----	----	----	----	----	----	----	65	✔	☐	☐	----
----	DuctStaticSp	SetPnt	----	----	----	----	----	----	----	1.5	✔	☐	☐	----
----	OaFlow Setpnt	SetPnt	----	----	----	----	----	----	----	1200	✔	☐	☐	----
----	Occupied Cool DAT Setpoint	SetPnt	----	----	----	----	----	----	----	58	✔	☐	☐	----
----	Occupied Heat DAT Setpoint	SetPnt	----	----	----	----	----	----	----	55	✔	☐	☐	----
----	SFMinSpd	SetPnt	----	----	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	VDO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	SOV_RTU1UnOccClgEn	VDO	----	----	----	----	----	----	----	55	☐	✔	☐	----
----	SOV_RTU1UnOccHtgEn	VDO	----	----	----	----	----	----	----	90	☐	✔	☐	----

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	OA temperature	----	----	----	----	----	----	----	46	44	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 4:29:34 PM
Marked complete by dmychaluk@cm3inc.com on 1/24/2024 4:50:43 PM

RTU-1 ADMINISTRATION ISSUES

ISSUE-1119

Project / Nether Providence Elementary School / Rooftop Units / RTU-1 Administration

Unit showing compressor lockout. : Recommend mechanical service of unit.

Status	Open
Entered	1/24/2024 4:31:26 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	1/31/2024 12:00:00 AM

ISSUE-1120

Project / Nether Providence Elementary School / Rooftop Units / RTU-1 Administration

Rust noted around coil frame. : remediation required

Status	Open
Entered	1/24/2024 4:40:48 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	1/31/2024 12:00:00 AM



1000010628.v2.jpg; Added on 1/24/2024 4:40:49 PM by dmychaluk@cm3inc.com

ISSUE-1121

Project / Nether Providence Elementary School / Rooftop Units / RTU-1 Administration

Stage 1 coil is blue in color when the compressor is off. : Check graphic DX coil automation.

Status	Open
Entered	1/24/2024 4:55:21 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	1/31/2024 12:00:00 AM



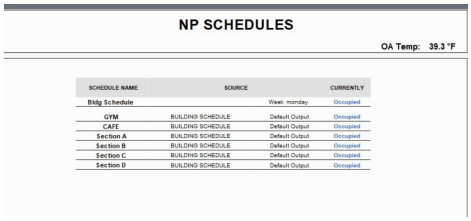
NPERTU1.png; Added on 1/24/2024 4:55:21 PM by danhainey@cm3inc.com

ISSUE-1299

Project / Nether Providence Elementary School / Rooftop Units / RTU-1 Administration

Unit remains in unoccupied mode when all building schedules are occupied. : Check and clarify building schedules.

Status	Open
Entered	2/5/2024 6:18:55 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/12/2024 12:00:00 AM



NPschedules.png; Added on 2/5/2024 6:18:55 PM by danhainey@cm3inc.com

RTU-2 Library

Project / Nether Providence Elementary School / Rooftop Units

RTU

In Progress

Design | Proposed | Final | Units

Notes

dmychaluk@cm3inc.com on 1/24/2024 5:06:51 PM:
Unit nameplate and overview



06360913_1000010636.v2.jpg; Added on 1/24/2024 5:08:06 PM
by dmychaluk@cm3inc.com



52380760_1000010629.v2.jpg; Added on 1/24/2024 5:08:52 PM
by dmychaluk@cm3inc.com



52708878_1000010630.v2.jpg; Added on 1/24/2024 5:08:52 PM
by dmychaluk@cm3inc.com

RTU-2 LIBRARY WORK

Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	OA Damper Cmd	%	----	----	ok	ok	ok	----	----	----	✔	☐	☐	----
----	Reheat Valve Cmd	%	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	SFVFDSpd	%	----	----	ok	ok	ok	----	----	----	✔	☐	☐	----
----	OaFlow Sensor	CFM	----	----	----	----	----	----	----	946	✔	☐	☐	----
----	Return Air Temperature	Deg F	----	----	----	----	----	----	76.5	77.2	✔	☐	☐	----
----	Discharge Air Temperature	DegF	----	----	----	----	----	----	71	70.1	✔	☐	☐	----
----	Filter Status	DI	----	----	----	----	----	----	----	----	✔	☐	☐	----
----	Supply Fan Alarm	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Sts	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan En	DO	ok	----	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 1 Cmd	DO	----	----	----	----	----	----	----	----	☐	☐	✔	compressors failed
----	Compressor 2 Cmd	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Reheat Enable	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Reversing Valve En	DO	----	----	----	----	----	----	----	----	✔	☐	☐	----
----	Isolation Valve Cmd	DO	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Isolation Valve status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Building Pressure	InWc	----	----	----	----	----	----	----	0	☐	✔	☐	----
----	DuctStatic Pressure	InWc	----	----	----	----	----	----	----	0.26	✔	☐	☐	----
----	Discharge Air Setpnt	SetPnt	----	----	----	----	----	----	----	58	✔	☐	☐	----
----	DuctStaticSp	SetPnt	----	----	----	----	----	----	----	1.0	✔	☐	☐	----
----	OaFlow Setpnt	SetPnt	----	----	----	----	----	----	----	940	✔	☐	☐	----
----	Occupied Cool DAT Setpoint	SetPnt	----	----	----	----	----	----	----	58	✔	☐	☐	----
----	Occupied Heat DAT Setpoint	SetPnt	----	----	----	----	----	----	----	55	✔	☐	☐	----
----	SFMinSpd	SetPnt	----	----	----	----	----	----	----	30	✔	☐	☐	----
----	Occupancy Cmd	VDO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	SOV_RTU1UnOccClgEn	VDO	----	----	----	----	----	----	----	55	✔	☐	☐	----

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	SOV_RTU1UnOccHtgEn	VDO	----	----	----	----	----	----	----	90	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 4:10:49 PM
Marked complete by dmychaluk@cm3inc.com on 1/24/2024 5:28:50 PM

Pre-Functional Checklist

AHU Pre-Functional Checklist

Inspection and Verification	Pass	Fail	NA	Comments
Integrity of insulation on pipework	✔	☐	☐	----
Integrity of door seals and panel penetrations	✔	☐	☐	----
Heating, Cooling, and Preheat Coil condition and cleanliness	✔	☐	☐	----
Filter condition and cleanliness	✔	☐	☐	----
Filter block off plate and seal integrity	✔	☐	☐	----
Decking and curb for roof mounted equipment is insulated and airtight	✔	☐	☐	----
Sensor locations follow best practices	✔	☐	☐	----
Condensate pan clean and flowing properly	✔	☐	☐	----
Flex connection from blower motor to duct transition is intact and free from tearing	☐	☐	✔	----
Outside air damper blade seals are intact and sealing properly	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/24/2024 4:57:25 PM
Marked complete by dmychaluk@cm3inc.com on 2/14/2024 10:05:53 AM

RTU-2 LIBRARY ISSUES

ISSUE-1122

Project / Nether Providence Elementary School / Rooftop Units / RTU-2 Library

Discharge air sensor is reading 9 Deg F below actual value causing the unit to overheat and overcool the space served. : Recommend replacement of sensor

Status	Open
Entered	1/24/2024 5:06:37 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	1/31/2024 12:00:00 AM

ISSUE-1123

Project / Nether Providence Elementary School / Rooftop Units / RTU-2 Library

Missing room setpoint high and room setpoint low from Niagara integration. : recommend correction and addition of logic with exposed parameters on the Niagara front end.

Status	Open
Entered	1/24/2024 5:15:42 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	1/31/2024 12:00:00 AM

ISSUE-1124

Project / Nether Providence Elementary School / Rooftop Units / RTU-2 Library

Compressor controllers for both circuits show a fault 4 for a locked rotor. : Recommend troubleshooting the cooling circuits

Status	Open
Entered	1/24/2024 5:27:46 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	1/31/2024 12:00:00 AM



23462497_PXL_20240124_222215520.v2.jpg; Added on 1/24/2024 5:30:23 PM by dmychaluk@cm3inc.com



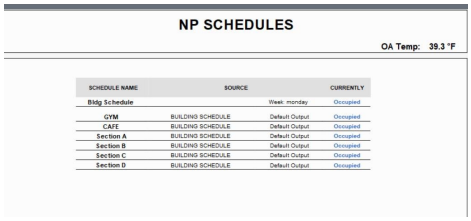
23854894_PXL_20240124_222212178.v2.jpg; Added on 1/24/2024 5:30:23 PM by dmychaluk@cm3inc.com

ISSUE-1300

Project / Nether Providence Elementary School / Rooftop Units / RTU-2 Library

Unit remains in unoccupied mode when all building schedules are occupied. : Check and clarify building schedules.

Status	Open
Entered	2/5/2024 6:19:45 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Calibration
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/12/2024 12:00:00 AM



NPschedules.png; Added on 2/5/2024 6:19:45 PM by danhainey@cm3inc.com

RTU-3 Art, Computer Rooms

Project / Nether Providence Elementary School / Rooftop Units

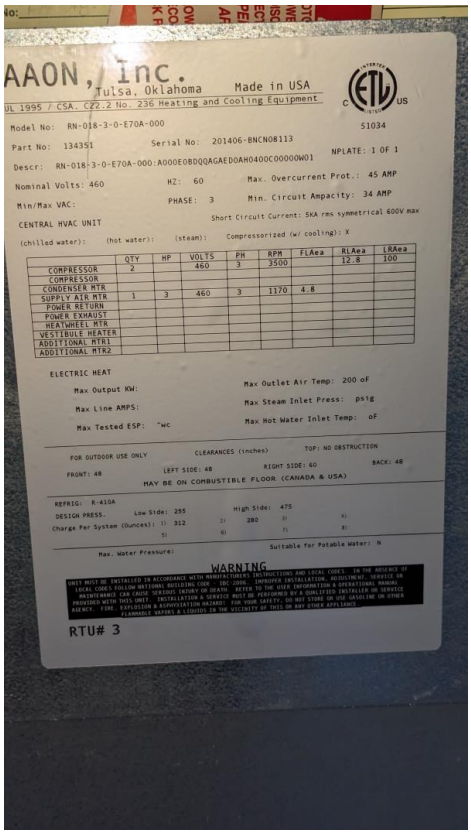
RTU

In Progress

Design	Proposed	Final	Units

Notes

dmychaluk@cm3inc.com on 1/24/2024 5:29:43 PM:
Unit nameplate and overview



1000010640.v2.jpg; Added on 1/24/2024 5:29:43 PM by dmychaluk@cm3inc.com



1000010641.v2.jpg; Added on 1/24/2024 5:29:44 PM by dmychaluk@cm3inc.com

RTU-3 ART, COMPUTER ROOMS WORK

Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	OA Damper Cmd	%	----	----	bad	ok	ok	----	----	----	☐	✔	☐	----
----	Reheat Valve Cmd	%	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	SFVFDSpd	%	----	----	Ok	Ok	OK	----	----	----	✔	☐	☐	----
----	OaFlow Sensor	CFM	----	----	----	----	----	----	----	2156	✔	☐	☐	----
----	Return Air Temperature	Deg F	----	----	----	----	----	----	71	70.8	✔	☐	☐	----
----	Discharge Air Temperature	DegF	----	----	----	----	----	----	57.1	56.7	✔	☐	☐	----
----	Filter Status	DI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Alarm	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Sts	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan En	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 1 Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2 Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Reheat Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Reversing Valve En	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Isolation Valve Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Isolation Valve status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Building Pressure	InWc	----	----	----	----	----	----	----	0.0	☐	✔	☐	----
----	DuctStatic Pressure	InWc	----	----	----	----	----	----	----	.82	☐	☐	☐	----
----	Discharge Air Setpnt	SetPnt	----	----	----	----	----	----	----	55	☐	☐	☐	----
----	DuctStaticSp	SetPnt	----	----	----	----	----	----	----	1.2	✔	☐	☐	----
----	OaFlow Setpnt	SetPnt	----	----	----	----	----	----	----	1100	✔	☐	☐	----
----	Occupied Cool DAT Setpoint	SetPnt	----	----	----	----	----	----	----	56	✔	☐	☐	----
----	Occupied Heat DAT Setpoint	SetPnt	----	----	----	----	----	----	----	55	✔	☐	☐	----
----	SFMinSpd	SetPnt	----	----	----	----	----	----	----	30	✔	☐	☐	----
----	Occupancy Cmd	VDO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	SOV_RTU1UnOccClgEn	VDO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	SOV_RTU1UnOccHtgEn	VDO	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 4:29:35 PM
Marked complete by dmychaluk@cm3inc.com on 1/24/2024 6:00:03 PM

RTU-3 ART, COMPUTER ROOMS ISSUES

ISSUE-1125

Project / Nether Providence Elementary School / Rooftop Units / RTU-3 Art, Computer Rooms

OA flow setpoint is not controlling OA damper properly. Flow reading 2465 damper will not go below 60% without override. : recommend replacement of the controller.

Status	Open
Entered	1/24/2024 5:39:37 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	1/31/2024 12:00:00 AM



47172282_PXL_20240124_225910285.v2.jpg; Added on 1/24/2024 6:34:47 PM by dmychaluk@cm3inc.com

ISSUE-1126

Project / Nether Providence Elementary School / Rooftop Units / RTU-3 Art, Computer Rooms

When overridden to 0% the OA damper is actually at 20%. With OA flow showing 0%. Recommend correcting OA damper actuator on damper assembly.

Status	Open
Entered	1/24/2024 5:59:47 PM
Entered By	dmychaluk@cm3inc.com
Priority	Energy
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	1/31/2024 12:00:00 AM



1000010649.v2.jpg; Added on 1/24/2024 5:59:47 PM by dmychaluk@cm3inc.com



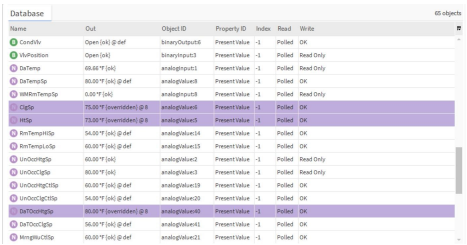
1000010648.v2.jpg; Added on 1/24/2024 5:59:48 PM by dmychaluk@cm3inc.com

ISSUE-1127

Project / Nether Providence Elementary School / Rooftop Units / RTU-3 Art, Computer Rooms

RTU 3 integration is not functional for heating control, unit works in heating is setpoints not reflected int eh graphic are overridden. : Recommend correction of setpoints and adding additional text to describe what setpoints need to be modified for proper unit control.

Status	Open
Entered	1/24/2024 7:28:46 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



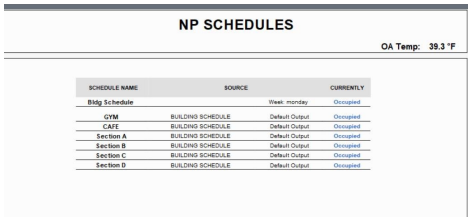
42648478_RTU3points.png; Added on 1/24/2024 7:30:42 PM by danhainey@cm3inc.com

ISSUE-1301

Project / Nether Providence Elementary School / Rooftop Units / RTU-3 Art, Computer Rooms

Unit remains in unoccupied mode when all building schedules are occupied. : Check and clarify building schedules.

Status	Open
Entered	2/5/2024 6:21:22 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/12/2024 12:00:00 AM



NPschedules.png; Added on 2/5/2024 6:21:22 PM by danhainey@cm3inc.com

RTU-4 Gymnasium

Project / Nether Providence Elementary School / Rooftop Units

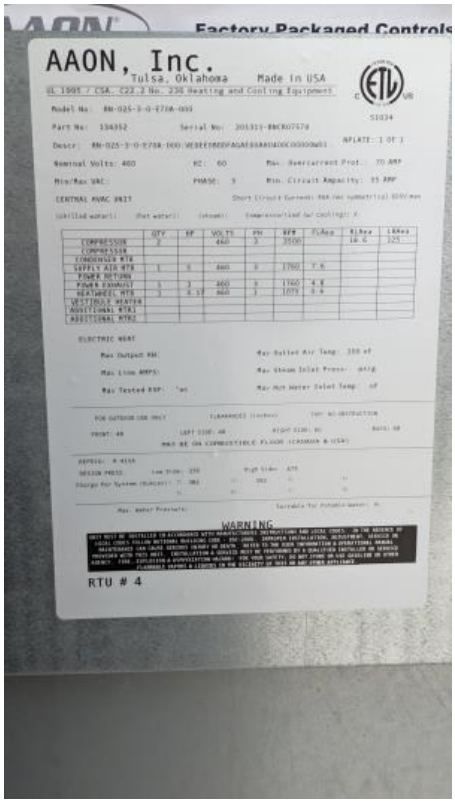
RTU

In Progress

Design	Proposed	Final	Units

Notes

dmychaluk@cm3inc.com on 1/26/2024 12:29:04 PM:
Unit nameplate and overview



34587027_1000010755.v2.jpg; Added on 1/26/2024 12:32:34 PM by dmychaluk@cm3inc.com



34946408_1000010756.v2.jpg; Added on 1/26/2024 12:32:34 PM by dmychaluk@cm3inc.com

RTU-4 GYMNASIUM WORK

Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Recovery wheel	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Recovery Wheel Sts	DI	----	----	----	----	----	bad	----	----	☐	✔	☐	----
----	OA Damper Cmd	%	----	----	ok	ok	ok	----	----	----	✔	☐	☐	----
----	Reheat Valve Cmd	%	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan VFD Speed	%	----	----	ok	ok	ok	----	----	----	✔	☐	☐	----
----	OaFlow Sensor	CFM	----	----	----	----	----	----	----	0	✔	☐	☐	----
----	Room Temp	Deg F	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Room Humidity	%rh	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Rom C02	PPM	----	----	----	----	----	----	----	576	✔	☐	☐	----
----	PushButton Ovrd	DI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Discharge Air Temperature	DegF	----	----	----	----	----	----	66.4	65.4	✔	☐	☐	----
----	Filter Status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Alarm	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Sts	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan En	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Exhaust Fan En	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Exhaust Fan sts	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Compressor 1 Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2 Cmd	DO	----	----	----	----	----	----	----	----	☐	☐	✔	Compressor disabled
----	Reheat Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Reversing Valve En	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Isolation Valve Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Isolation Valve status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Occupied Cool Space Setpoint	SetPnt	----	----	----	----	----	----	----	74	✔	☐	☐	----
----	Occupied Heat Space Setpoint	SetPnt	----	----	----	----	----	----	----	70	✔	☐	☐	----

Functional Checklist And Issues Log

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Occupancy Cmd	VDO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Return Air temp	----	----	----	----	----	----	----	67.5	63.9	☐	✔	☐	----
----	C02 Setpnt	----	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/26/2024 12:41:11 PM
Marked complete by dmychaluk@cm3inc.com on 1/26/2024 12:41:11 PM

RTU-4 GYMNASIUM ISSUES

ISSUE-1158

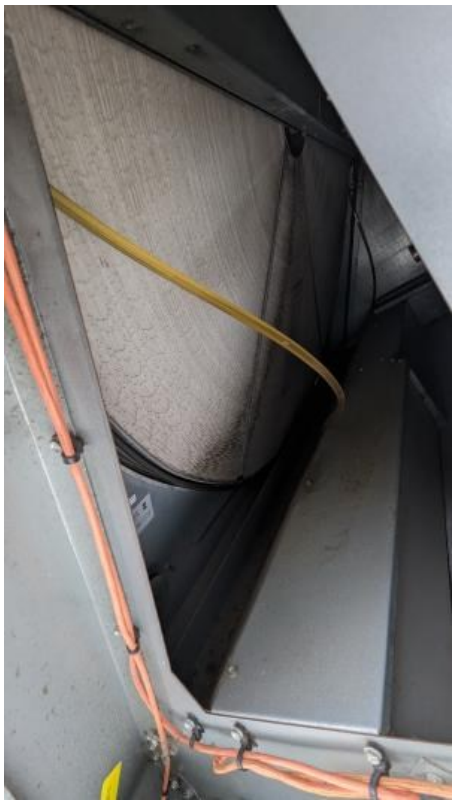
Project / Nether Providence Elementary School / Rooftop Units / RTU-4 Gymnasium

Heat wheel belt is no longer attached and the motor is freespining. : Recommend replacement of belt and adjusting sensitivity of the CT to trigger at a higher amp draw so the status reflect accurately

Status	Open
Entered	1/26/2024 12:51:02 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



08279108_PXL_20240126_173233615.v2.jpg; Added on 1/26/2024 1:08:08 PM by dmychaluk@cm3inc.com



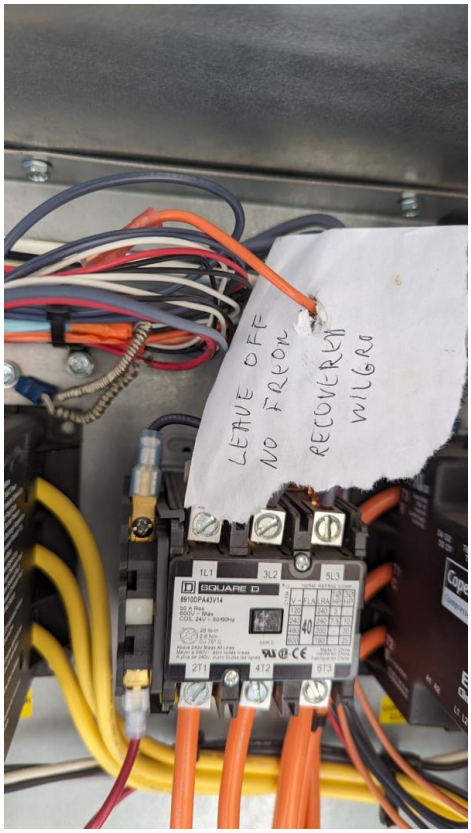
08716614_PXL_20240126_173238326.v2.jpg; Added on 1/26/2024 1:08:08 PM by dmychaluk@cm3inc.com

ISSUE-1159

Project / Nether Providence Elementary School / Rooftop Units / RTU-4 Gymnasium

Compressor circuit 2 no longer connected to low voltage circuit, note states refrigerant has been removed. : recommend troubleshooting refrigerant circuit for issues.

Status	Open
Entered	1/26/2024 1:03:15 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



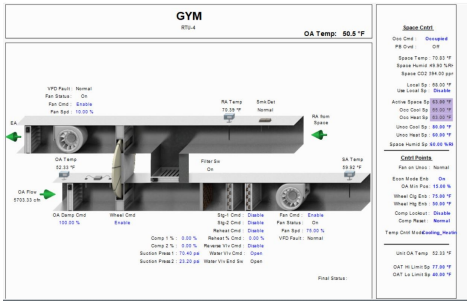
PXL_20240126_173520413.v2.jpg; Added on 1/26/2024 1:03:17 PM by dmychaluk@cm3inc.com

ISSUE-1160

Project / Nether Providence Elementary School / Rooftop Units / RTU-4 Gymnasium

Controller has a C02 sensor and a min C02 Damper position but no Space C02 setpoint. : Recommend verification of integration and replacement of the comfort point controller as needed

Status	Open
Entered	1/26/2024 1:08:38 PM
Entered By	dmychaluk@cm3inc.com
Priority	IAQ
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



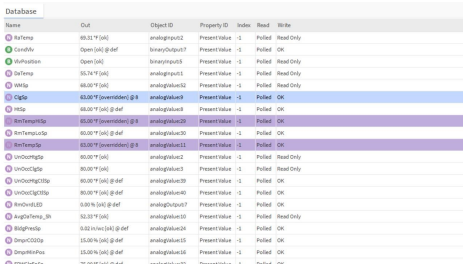
08664807_RTU4.png; Added on 1/26/2024 1:12:08 PM by danhainey@cm3inc.com

ISSUE-1161

Project / Nether Providence Elementary School / Rooftop Units / RTU-4 Gymnasium

Unit has additional points that need to be added to the graphics for proper functionality. :
Recommend adding these points and confirming integration

Status	Open
Entered	1/26/2024 1:09:32 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



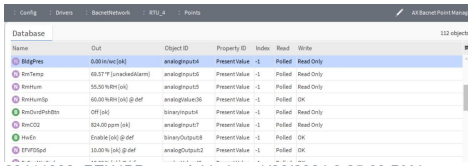
43738880_Points.png; Added on 1/26/2024 1:16:43 PM by danhainey@cm3inc.com

ISSUE-1162

Project / Nether Providence Elementary School / Rooftop Units / RTU-4 Gymnasium

Building static sensor and setpoint are not in the BAS graphics. : recommend adding to the graphics.

Status	Open
Entered	1/26/2024 3:21:35 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



03411032_RTU4BP.png; Added on 1/26/2024 3:25:03 PM by danhainey@cm3inc.com

RTU-5 Cafeteria, Stage

Project / Nether Providence Elementary School / Rooftop Units

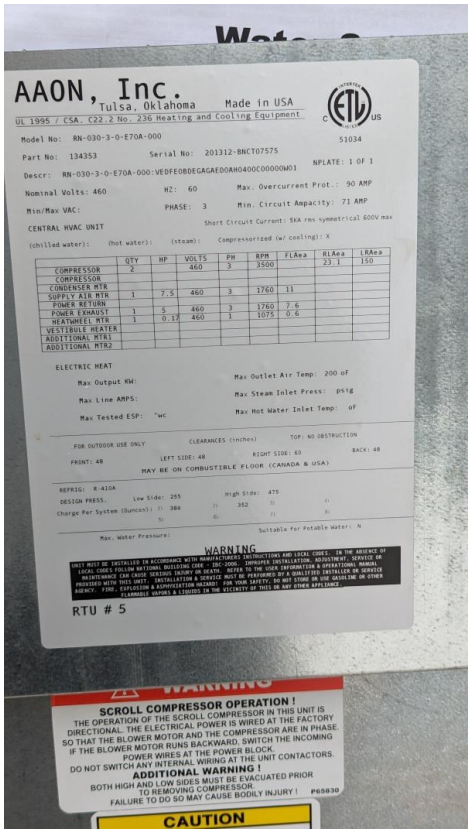
RTU

In Progress

Design | Proposed | Final | Units

Notes

dmychaluk@cm3inc.com on 1/26/2024 3:23:54 PM:
Unit nameplate and overview



1000010757.v2.jpg; Added on 1/26/2024 3:23:54 PM by dmychaluk@cm3inc.com


1000010758.v2.jpg; Added on 1/26/2024 3:23:55 PM by dmychaluk@cm3inc.com

RTU-5 CAFETERIA, STAGE WORK

Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Recovery wheel	DO	----	bad	----	----	----	----	----	----	☐	✔	☐	not working automatically
----	Recovery Wheel Sts	DI	----	----	----	----	----	bad	----	----	☐	✔	☐	----
----	OA Damper Cmd	%	----	----	----	----	----	----	----	----	✔	☐	☐	----
----	Reheat Valve Cmd	%	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan VFD Speed	%	----	----	ok	ok	ok	----	----	----	✔	☐	☐	----
----	OaFlow Sensor	CFM	----	----	----	----	----	----	----	1443	✔	☐	☐	----
----	Room Temp	Deg F	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Room Humidity	%rh	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Rom C02	PPM	----	----	----	----	----	----	----	716	✔	☐	☐	----
----	PushButton Ovrd	DI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Discharge Air Temperature	DegF	----	----	----	----	----	----	67.1	66.6	✔	☐	☐	----
----	Filter Status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Alarm	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Sts	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan En	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Exhaust Fan En	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Exhaust Fan sts	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Compressor 1 Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2 Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Reheat Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Reversing Valve En	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Isolation Valve Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Isolation Valve status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Exhaust Fan Speed Cmd	----	----	----	ok	ok	ok	----	----	----	✔	☐	☐	----
----	Occupied Cool Space Setpoint	SetPnt	----	----	----	----	----	----	----	72	✔	☐	☐	----

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	OA Temperature	----	----	----	----	----	----	----	52.7	54.3	✔	☐	☐	----
----	Occupied Heat Space Setpoint	SetPnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
----	Occupancy Cmd	VDO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Return Air temp	----	----	----	----	----	----	----	67.1	62.9	☐	✔	☐	----
----	C02 Setpnt	----	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	space humidity setpnt	----	----	----	----	----	----	----	----	60%	☐	✔	☐	No effect on unit

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/26/2024 3:20:48 PM
Marked complete by dmychaluk@cm3inc.com on 1/26/2024 3:20:48 PM

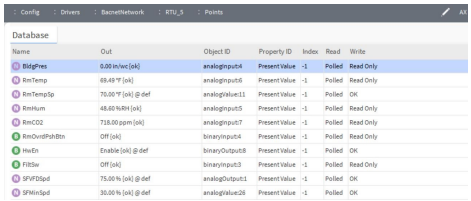
RTU-5 CAFETERIA, STAGE ISSUES

ISSUE-1163

Project / Nether Providence Elementary School / Rooftop Units / RTU-5 Cafeteria, Stage

Building static sensor and setpoint are not in the BAS graphics. : recommend adding to the graphics.

Status	Open
Entered	1/26/2024 3:22:36 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



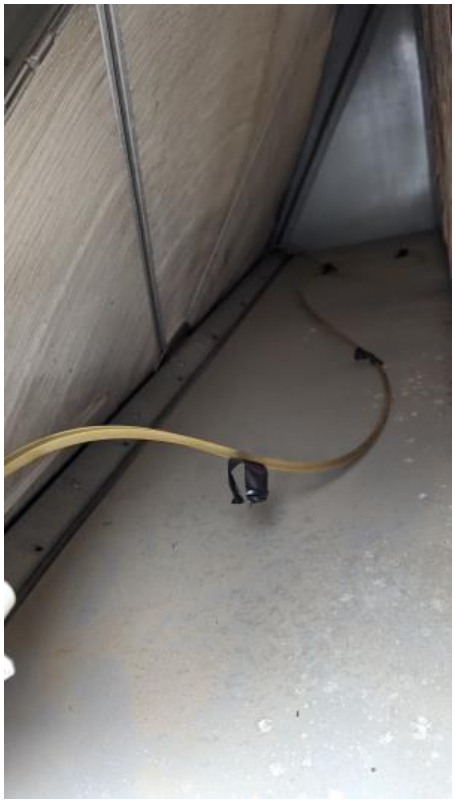
46069146_RTU5BP.png; Added on 1/26/2024 3:25:46 PM by danhainey@cm3inc.com

ISSUE-1164

Project / Nether Providence Elementary School / Rooftop Units / RTU-5 Cafeteria, Stage

Heat wheel belt is no longer attached and the motor is freespining. : Recommend replacement of belt and adjusting sensitivity of the CT to trigger at a higher amp draw so the status reflect accurately

Status	Open
Entered	1/26/2024 3:27:41 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



45645427_PXL_20240126_202539596.v2.jpg; Added on 1/26/2024 3:29:45 PM by dmychaluk@cm3inc.com



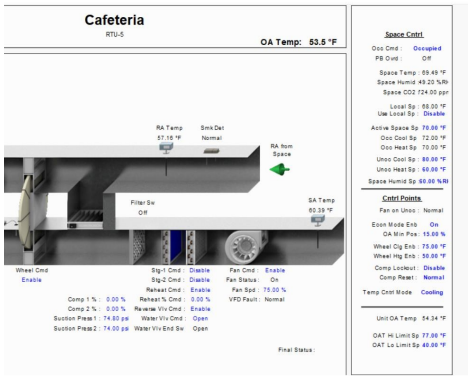
46020433_PXL_20240126_202546192.v2.jpg; Added on 1/26/2024 3:29:46 PM by dmychaluk@cm3inc.com

ISSUE-1165

Project / Nether Providence Elementary School / Rooftop Units / RTU-5 Cafeteria, Stage

Heat wheel setpoint is set such that the wheel should be disabled however it is still enabled by the controller. : recommend correction of programming within the comfort point controller so the heat wheel follows lockout setpoints.

Status	Open
Entered	1/26/2024 3:37:18 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



09543829_HeatWheel.png; Added on 1/26/2024 3:39:09 PM by danhainey@cm3inc.com

ISSUE-1166

Project / Nether Providence Elementary School / Rooftop Units / RTU-5 Cafeteria, Stage

Dirty wet rags found in the conditioned loop cabinet. Rags may have been from a previous or still active leak. Due to the growth found on the rags and active leak still maybe present. : recommend cleaning cabinet and searching for water penetrations

Status	Open
Entered	1/26/2024 3:52:07 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



1000010772.v2.jpg; Added on 1/26/2024 3:52:07 PM by dmychaluk@cm3inc.com



1000010773.v2.jpg; Added on 1/26/2024 3:52:07 PM by dmychaluk@cm3inc.com



1000010774.v2.jpg; Added on 1/26/2024 3:52:08 PM by dmychaluk@cm3inc.com

ISSUE-1167

Project / Nether Providence Elementary School / Rooftop Units / RTU-5 Cafeteria, Stage

Room temp setpoint override worked to command the unit, appears other setpoints needed modification as well. not all setpoints were available in the existing BAS graphics. : recommend correction of graphics.

Status	Open
Entered	1/26/2024 3:56:25 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM

SOV-100 Admin

Project / Nether Providence Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-12				

SOV-100 ADMIN WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	P	P	P	----	----	54.8	✔	☐	☐	----
Heating Valve	%	----	----	P	P	P	----	----	0	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	----	71.6	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	229.8	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	71.4	74	☐	✔	☐	----
Zone Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	74	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	P	----	----	----	----	----	----	✔	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:00:23 PM
Marked complete by danhainey@cm3inc.com on 2/5/2024 8:29:46 PM

SOV-100 ADMIN ISSUES

ISSUE-1304

Project / Nether Providence Elementary School / SOV / SOV-100 Admin

Space temperature sensor reads approximately 3 degrees F too high. : Calibrate or replace space temperature sensor.

Status	Open
Entered	2/5/2024 8:28:53 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Calibration
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/13/2024 12:00:00 AM



Space.v2.jpg; Added on 2/5/2024 8:28:53 PM by danhainey@cm3inc.com

SOV-100 Lobby

Project / Nether Providence Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-11				

SOV-100 LOBBY WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	P	P	P	----	----	50.5	✔	☐	☐	----
Heating Valve	%	----	----	P	P	P	----	----	88.9	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	----	116.7	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	778.3	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	71.6	72.4	✔	☐	☐	----
Zone Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	74	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	P	----	----	----	----	----	----	✔	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 2:54:59 PM
Marked complete by danhainey@cm3inc.com on 2/5/2024 8:13:11 PM

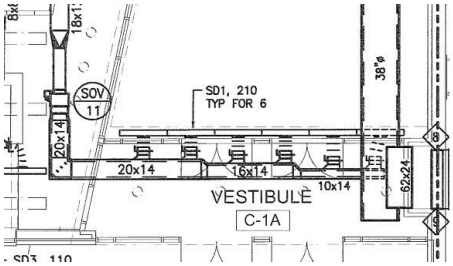
SOV-100 LOBBY ISSUES

ISSUE-1303

Project / Nether Providence Elementary School / SOV / SOV-100 Lobby

BAS graphic incorrectly shows this unit serving admin area. It serves the lobby. : Make corrections to graphic.

Status	Open
Entered	2/5/2024 8:24:18 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/13/2024 12:00:00 AM



Vestibule.png; Added on 2/5/2024 8:24:18 PM by danhainey@cm3inc.com

SOV-100.A Conf Room

Project / Nether Providence Elementary School / SOV

SOV

In Progress

		Design	Proposed	Final	Units
Description	SOV-3				

SOV-100.A CONF ROOM WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	P	P	P	----	----	29.7	✔	☐	☐	----
Heating Valve	%	----	----	P	P	P	----	----	100	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	----	103.1	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	267.7	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	71.5	0	☐	✔	☐	----
Zone Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	P	----	----	----	----	----	----	✔	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:00:23 PM
Marked complete by danhainey@cm3inc.com on 2/5/2024 8:33:51 PM

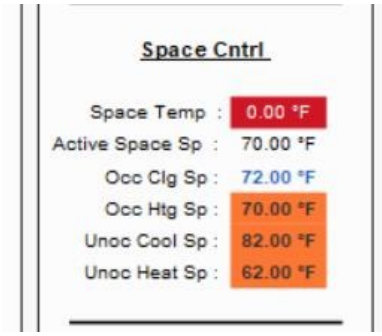
SOV-100.A CONF ROOM ISSUES

ISSUE-1302

Project / Nether Providence Elementary School / SOV / SOV-100.A Conf Room

Space temperature sensor reads 0.00 degrees F. : Check programming or replace space temperature sensor as required.

Status	Open
Entered	2/5/2024 6:41:46 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/12/2024 12:00:00 AM



Space.png; Added on 2/5/2024 6:41:46 PM by danhainey@cm3inc.com

ISSUE-1308

Project / Nether Providence Elementary School / SOV / SOV-100.A Conf Room

Supply air temperature is noticeably higher (70.07 degrees F) compared to other SOV boxes with control valves commanded closed. : Check control valve and programming.

Status	Open
Entered	2/5/2024 9:41:03 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/13/2024 12:00:00 AM



UNIT NAME	SERVES	FED FROM	SPACE TEMP	SA TEMP	OCC HEAT SP	OCC COOL SP	UNOC HEAT SP	UNOC COOL SP	ACTIVE SETPT	OCC CMD	HEAT V.V	AIR FLOW	AIR FLOW SP	DAMPER %
SOV1	Rm-112B	RTU_1	68.21 °F	62.05 °F	70.00 °F	72.00 °F	62.00 °F	82.00 °F	70.00 °F	Occupied	0.00 %	395.50 cfm	390.00 cfm	80.91 %
SOV2	Rm-112A	RTU_1	68.66 °F	63.43 °F	70.00 °F	72.00 °F	62.00 °F	82.00 °F	70.00 °F	Occupied	0.00 %	43.93 cfm	50.00 cfm	37.27 %
SOV3	Rm-106A	RTU_1	74.03 °F	79.07 °F	70.00 °F	72.00 °F	62.00 °F	82.00 °F	70.00 °F	Occupied	0.00 %	215.13 cfm	520.00 cfm	28.82 %
SOV5	Rm-106G	RTU_1	66.35 °F	62.26 °F	70.00 °F	72.00 °F	62.00 °F	82.00 °F	62.00 °F	Occupied	0.00 %	171.75 cfm	80.00 cfm	45.42 %
SOV6	Rm-106F	RTU_1	67.34 °F	62.58 °F	68.00 °F	70.00 °F	62.00 °F	82.00 °F	68.00 °F	Occupied	0.00 %	86.25 cfm	90.00 cfm	43.20 %
SOV7	Rm-106D	RTU_1	68.88 °F	62.44 °F	70.00 °F	72.00 °F	62.00 °F	82.00 °F	70.00 °F	Occupied	0.00 %	254.48 cfm	380.00 cfm	66.41 %
SOV8	Rm-106H	RTU_1	68.36 °F	62.88 °F	70.00 °F	72.00 °F	62.00 °F	82.00 °F	70.00 °F	Occupied	0.00 %	197.11 cfm	290.00 cfm	67.30 %
SOV10	Rm-106B	RTU_1	70.46 °F	62.77 °F	72.00 °F	74.00 °F	62.00 °F	82.00 °F	76.00 °F	Occupied	0.00 %	172.14 cfm	170.00 cfm	39.31 %
SOV11	Admin Area	RTU_1	71.87 °F	62.85 °F	72.00 °F	74.00 °F	62.00 °F	82.00 °F	72.00 °F	Occupied	0.00 %	783.84 cfm	790.00 cfm	54.51 %
SOV12	Admin Area	RTU_1	74.21 °F	62.93 °F	72.00 °F	74.00 °F	62.00 °F	82.00 °F	74.00 °F	Occupied	0.00 %	153.54 cfm	145.10 cfm	51.26 %

SAT.png; Added on 2/5/2024 9:41:03 PM by danhainey@cm3inc.com

SOV-100.B Psych

Project / Nether Providence Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-10				

SOV-100.B PSYCH WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	P	P	P	----	----	42.1	✔	☐	☐	----
Heating Valve	%	----	----	P	P	P	----	----	22.1	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	----	85.2	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	174.9	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	70.3	73.03	☐	✔	☐	----
Zone Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	74	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	P	----	----	----	----	----	----	✔	☐	☐	----

Complete

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SOV-100.B PSYCH ISSUES

ISSUE-1305

Project / Nether Providence Elementary School / SOV / SOV-100.B Psych

Space temperature sensor reads approximately 3 degrees F too high. : Calibrate or replace space temperature sensor.

Status	Open
Entered	2/5/2024 8:39:38 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Calibration
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/13/2024 12:00:00 AM



Space.v2.jpg; Added on 2/5/2024 8:43:00 PM by danhainey@cm3inc.com

SOV-100.E Principal

Project / Nether Providence Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-7				

SOV-100.E PRINCIPAL WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	P	P	P	----	----	52.9	✔	☐	☐	----
Heating Valve	%	----	----	P	P	P	----	----	0	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	----	78.6	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	136.6	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	71.8	72.8	✔	☐	☐	----
Zone Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	P	----	----	----	----	----	----	✔	☐	☐	----

Complete

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SOV-100.F Conf Rm

Project / Nether Providence Elementary School / SOV

SOV

Complete

	Design	Proposed	Final	Units
Description	SOV-6			

SOV-100.F CONF RM WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	P	P	P	----	----	45.1	✔	☐	☐	----
Heating Valve	%	----	----	P	P	P	----	----	0	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	----	63.8	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	84.4	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	70.5	67.8	☐	✔	☐	----
Zone Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	68	✔	☐	☐	----
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	P	----	----	----	----	----	----	✔	☐	☐	----

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SOV-100.F CONF RM ISSUES

ISSUE-1306

Project / Nether Providence Elementary School / SOV / SOV-100.F Conf Rm

Space temperature sensor reads approximately 3 degrees F too low. : Calibrate or replace space temperature sensor.

Status	Open
Entered	2/5/2024 8:53:04 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Calibration
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/13/2024 12:00:00 AM



Space.v2.jpg; Added on 2/5/2024 8:53:04 PM by danhainey@cm3inc.com

SOV-100.G Guidance

Project / Nether Providence Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-5				

SOV-100.G GUIDANCE WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	ok	Ok	Ok	----	----	----	✔	☐	☐	----
Heating Valve	%	----	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	71.1	69.6	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	157.7	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	72.6	69.2	☐	✔	☐	----
Airflow Setpoint	%Rh	----	----	----	----	----	----	----	120	✔	☐	☐	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	Bad	----	----	----	----	----	----	☐	✔	☐	----

Complete

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SOV-100.G GUIDANCE ISSUES

ISSUE-1173

Project / Nether Providence Elementary School / SOV / SOV-100.G Guidance

Space sensor is reading 3 Deg F lower than actual. : Recommend calibration of sensor.

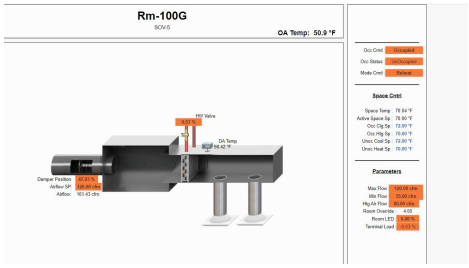
Status	Open
Entered	1/26/2024 6:42:52 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM

ISSUE-1174

Project / Nether Providence Elementary School / SOV / SOV-100.G Guidance

Unit occupancy is not reflecting correctly, occupied command is occupied however the status does not change and stays unoccupied and reflects unoccupied setpoints. : Recommend troubleshooting the controller and replacing as needed. Unoccupied setpoints modified until repairs can take place.

Status	Open
Entered	1/26/2024 6:46:11 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



09343717_SOv-5.png; Added on 1/26/2024 6:47:09 PM by dmychaluk@cm3inc.com

SOV-100.H Work/Mail

Project / Nether Providence Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-8				

SOV-100.H WORK/MAIL WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	P	P	P	----	----	67.1	✔	☐	☐	----
Heating Valve	%	----	----	P	P	P	----	----	9.3	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	----	64.2	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	213.5	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	70.3	68.9	✔	☐	☐	----
Zone Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	P	----	----	----	----	----	----	✔	☐	☐	----

Complete

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SOV-112 Nurse

Project / Nether Providence Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-1				

SOV-112 NURSE WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
Heating Valve	%	----	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	108.6	108	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	398	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	71.2	71.3	✔	☐	☐	----
Airflow setpoint	CFM	----	----	----	----	----	----	----	410	✔	☐	☐	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	----	----	----	----	----	----	----	✔	☐	☐	----

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SOV-112.A Exam Rm

Project / Nether Providence Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-2				

SOV-112.A EXAM RM WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
Heating Valve	%	----	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	67	66	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	48.3	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	70.9	70.6	✔	☐	☐	----
Airflow setpoint	CFM	----	----	----	----	----	----	----	50	✔	☐	☐	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	OK	----	----	----	----	----	----	✔	☐	☐	----

Complete

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SOV-130 Library

Project / Nether Providence Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-14				

SOV-130 LIBRARY WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	P	P	P	----	----	49.8	✔	☐	☐	----
Heating Valve	%	----	----	P	P	P	----	----	100	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	----	109.4	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	601.5	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	64.6	64.9	✔	☐	☐	----
Zone Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	P	----	----	----	----	----	----	✔	☐	☐	----

Complete

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SOV-130 Library

Project / Nether Providence Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-13				

SOV-130 LIBRARY WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	P	P	P	----	----	54.9	✔	☐	☐	----
Heating Valve	%	----	----	P	P	P	----	----	0	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	----	60.1	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	436.9	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	63.5	64.9	☐	☐	☐	----
Zone Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	P	----	----	----	----	----	----	✔	☐	☐	----

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SOV-130 Library

Project / Nether Providence Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-16				

SOV-130 LIBRARY WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	P	P	P	----	----	50.6	✔	☐	☐	----
Heating Valve	%	----	----	P	P	P	----	----	100	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	----	111.8	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	599.8	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	63.6	62.8	✔	☐	☐	----
Zone Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	P	----	----	----	----	----	----	✔	☐	☐	----

Complete

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SOV-130.A Library Off

Project / Nether Providence Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-15				

SOV-130.A LIBRARY OFF WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	P	P	P	----	----	44	✔	☐	☐	----
Heating Valve	%	----	----	P	P	P	----	----	8.8	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	----	68.7	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	304.2	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	62.7	62.3	☐	☐	☐	----
Zone Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	P	----	----	----	----	----	----	✔	☐	☐	----

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Marked complete by danhainey@cm3inc.com on 2/5/2024 9:21:26 PM

SOV-217 Art Room-1

Project / Nether Providence Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-17				

SOV-217 ART ROOM-1 WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
Heating Valve	%	----	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	67.8	66.5	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	806	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	72	73.5	✔	☐	☐	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	74	☐	✔	☐	Heating SPt should never be higher than cooling correcte d in the field
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
Airflow Setpoint	Setpnt	----	----	----	----	----	----	----	797	✔	☐	☐	----
OccSchedule	VDO	----	OK	----	----	----	----	----	----	✔	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:00:27 PM
Marked complete by dmychaluk@cm3inc.com on 1/26/2024 5:31:47 PM

SOV-217 Art Room-2

Project / Nether Providence Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-18				

SOV-217 ART ROOM-2 WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
Heating Valve	%	----	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	67.8	64.6	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	510	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	72.5	74.4	✔	☐	☐	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	75	☐	✔	☐	Heating SPt should never be higher than cooling correcte d in the field
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
Airflow Setpoint	Setpnt	----	----	----	----	----	----	----	1240	✔	☐	☐	----
OccSchedule	VDO	----	OK	----	----	----	----	----	----	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/26/2024 5:08:10 PM
Marked complete by dmychaluk@cm3inc.com on 1/26/2024 5:28:37 PM

SOV-218 Computer Room 1

Project / Nether Providence Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-20				

SOV-218 COMPUTER ROOM 1 WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	Ok	Ok	ok	----	----	----	✔	☐	☐	----
Heating Valve	%	----	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	----	60.3	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	386	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	71.6	74.4	☐	✔	☐	----
Airflow Setpoint	CFM	----	----	----	----	----	----	----	385	✔	☐	☐	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	74	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	OK	----	----	----	----	----	----	✔	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:00:21 PM
Marked complete by danhainey@cm3inc.com on 2/5/2024 6:13:03 PM

SOV-218 COMPUTER ROOM 1 ISSUES

ISSUE-1170

Project / Nether Providence Elementary School / SOV / SOV-218 Computer Room 1

Space sensor is reading 3 Deg F higher in the BAS. : Recommend correction of sensor calibration.

Status	Open
Entered	1/26/2024 5:33:14 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM

SOV-218 Computer Room 2

Project / Nether Providence Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-21				

SOV-218 COMPUTER ROOM 2 WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	Ok	Ok	OK	----	----	----	✔	☐	☐	----
Heating Valve	%	----	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	65.2	63.6	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	543	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	72.3	72.8	✔	☐	☐	----
Airflow Setpoint	CFM	----	----	----	----	----	----	----	540	✔	☐	☐	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	OK	----	----	----	----	----	----	✔	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:00:22 PM
Marked complete by dmychaluk@cm3inc.com on 1/26/2024 5:44:18 PM

SOV-218A tech Room

Project / Nether Providence Elementary School / SOV

SOV

In Progress

		Design	Proposed	Final	Units
Description	SOV-19				

SOV-218A TECH ROOM WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
Heating Valve	%	----	----	Ok	Ok	Ok	----	----	----	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	69.8	71.2	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	265	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	73.1	73.7	✔	☐	☐	----
Flow setpoint	CFM	----	----	----	----	----	----	----	192	✔	☐	☐	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	75	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	75	☐	✔	☐	Modified to 70, heating/cooling setpoints should never match
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	Modified to 62
OccSchedule	VDO	----	Ok	----	----	----	----	----	----	✔	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:00:22 PM
Marked complete by dmychaluk@cm3inc.com on 1/26/2024 5:49:31 PM

SOV-218A TECH ROOM ISSUES

ISSUE-1307

Project / Nether Providence Elementary School / SOV / SOV-218A tech Room

Supply air temperature is noticeably higher (63.75 degrees F) compared to other SOV boxes with control valves commanded closed. : Check control valve and programming.

Status	Open
Entered	2/5/2024 9:36:41 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/13/2024 12:00:00 AM



SAT.png; Added on 2/5/2024 9:36:41 PM by danhainey@cm3inc.com

SOV-8 Mail and File

Project / Nether Providence Elementary School / SOV

SOV

Complete

Design	Proposed	Final	Units

SOV-8 MAIL AND FILE WORK

Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Damper Cmd	%	----	----	P	P	P	----	----	64.3	✔	☐	☐	----
Heating Valve	%	----	----	P	P	P	----	----	0	✔	☐	☐	----
DaTemp	DegF	----	----	----	----	----	----	----	64.9	✔	☐	☐	----
AirFlow	CFM	----	----	----	----	----	----	----	205.8	✔	☐	☐	----
Zone Temperature Sensor	DegF	----	----	----	----	----	----	70.9	69.6	✔	☐	☐	----
Zone Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
Occupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	72	✔	☐	☐	----
Occupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
Unoccupied Cooling Stpnt	Setpnt	----	----	----	----	----	----	----	82	✔	☐	☐	----
Unoccupied Heating Stpnt	Setpnt	----	----	----	----	----	----	----	62	✔	☐	☐	----
OccSchedule	VDO	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 2/5/2024 6:53:52 PM
Marked complete by danhainey@cm3inc.com on 2/5/2024 8:08:20 PM

CH-10A Vestibule C-1A

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-10A				

Notes

danhainey@cm3inc.com on 1/31/2024 9:35:51 PM:
Overview



10A overview.v2.jpg; Added on 1/31/2024 9:35:51 PM by danhainey@cm3inc.com

CH-10A VESTIBULE C-1A WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.8	73.8	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:24 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:35:57 PM

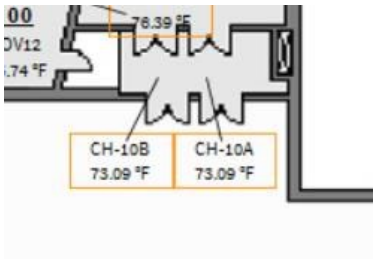
CH-10A VESTIBULE C-1A ISSUES

ISSUE-1239

Project / Nether Providence Elementary School / Unit Heaters / CH-10A Vestibule C-1A

CH-10A and CH-10B are flip-flopped on BAS graphic. : Make corrections to BAS graphic.

Status	Open
Entered	1/31/2024 9:35:28 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM



10ABFP.png; Added on 1/31/2024 9:35:28 PM by danhainey@cm3inc.com

CH-10B Vestibule C-1A

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-10B				

Notes

danhainey@cm3inc.com on 1/31/2024 9:32:17 PM:
Overview



10B overview.v2.jpg; Added on 1/31/2024 9:32:17 PM by danhainey@cm3inc.com

CH-10B VESTIBULE C-1A WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	72.2	72.2	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:17 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:36:12 PM

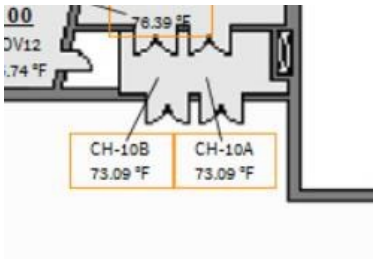
CH-10B VESTIBULE C-1A ISSUES

ISSUE-1238

Project / Nether Providence Elementary School / Unit Heaters / CH-10B Vestibule C-1A

CH-10A and CH-10B are flip-flopped on BAS graphic. : Make corrections to BAS graphic.

Status	Open
Entered	1/31/2024 9:34:02 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM



10ABFP.png; Added on 1/31/2024 9:34:02 PM by danhainey@cm3inc.com

CH-11 Lower Stair S-01

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

In Progress

		Design	Proposed	Final	Units
Description	CH-11				

Notes

danhainey@cm3inc.com on 1/31/2024 7:18:09 PM:
Overview

CH-11 LOWER STAIR S-01 WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	68.7	67.5	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:26 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:36:27 PM

CH-11 LOWER STAIR S-01 ISSUES

ISSUE-1227

Project / Nether Providence Elementary School / Unit Heaters / CH-11 Lower Stair S-01

Blower motor making high pitched noise and requires servicing. Unit is turned off. :
Repair blower or blower motor.

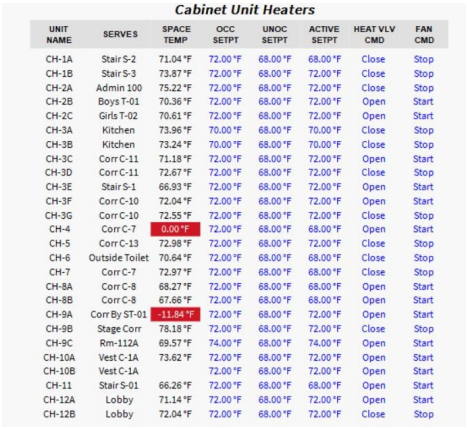
Status	Open
Entered	1/31/2024 7:19:28 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM

ISSUE-1228

Project / Nether Providence Elementary School / Unit Heaters / CH-11 Lower Stair S-01

Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.

Status	Open
Entered	1/31/2024 7:20:12 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM



Cabinet Unit Heaters

UNIT NAME	SERVES	SPACE TEMP	OCC SETPT	UNOC SETPT	ACTIVE SETPT	HEAT VLV CMD	FAN CMD
CH-1A	Stair S-2	71.04 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-1B	Stair S-3	73.87 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-2A	Admin 100	75.22 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-2B	Boys T-01	70.36 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-2C	Girls T-02	70.61 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3A	Kitchen	73.96 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
CH-3B	Kitchen	73.24 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
CH-3C	Corr C-11	71.18 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3D	Corr C-11	72.67 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-3E	Stair S-1	66.93 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3F	Corr C-10	72.04 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3G	Corr C-10	72.55 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-4	Corr C-7	0.00 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-5	Corr C-13	72.98 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-6	Outside Toilet	70.64 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-7	Corr C-7	72.97 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-8A	Corr C-8	68.27 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-8B	Corr C-8	67.66 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-9A	Corr By ST-01	-11.84 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-9B	Stage Corr	78.18 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-9C	Rm-112A	69.57 °F	74.00 °F	68.00 °F	74.00 °F	Open	Start
CH-10A	Vest C-1A	73.62 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-10B	Vest C-1A		72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-11	Stair S-01	66.26 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-12A	Lobby	71.14 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-12B	Lobby	72.04 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop

Occupancy.png; Added on 1/31/2024 7:20:12 PM by danhainey@cm3inc.com

CH-12A Lobby

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-12A				

Notes

danhainey@cm3inc.com on 1/31/2024 8:41:56 PM:
Overview



Overview.v2.jpg; Added on 1/31/2024 8:41:56 PM by danhainey@cm3inc.com

CH-12A LOBBY WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.0	72.2	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:23 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:36:43 PM

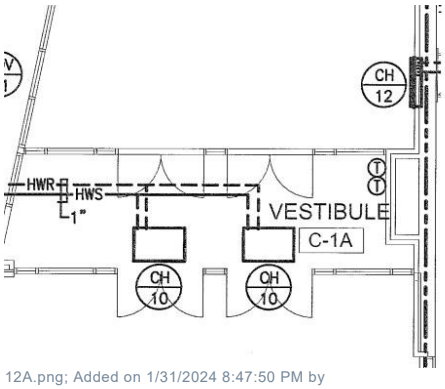
CH-12A LOBBY ISSUES

ISSUE-1235

Project / Nether Providence Elementary School / Unit Heaters / CH-12A Lobby

Floor plan graphic does not show actual location of unit. : Relocate unit on floor plan graphic close to Vestibule as shown.

Status	Open
Entered	1/31/2024 8:47:50 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM



12A.png; Added on 1/31/2024 8:47:50 PM by danhainey@cm3inc.com

CH-12B Lobby

Project / Nether Providence Elementary School / Unit Heaters

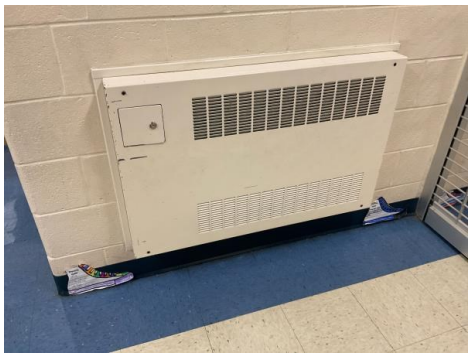
Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-12B				

Notes

danhainey@cm3inc.com on 1/31/2024 8:36:18 PM:
Overview



Oveview.v2.jpg; Added on 1/31/2024 8:36:18 PM by danhainey@cm3inc.com

CH-12B LOBBY WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.8	72.9	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:22 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:37:00 PM

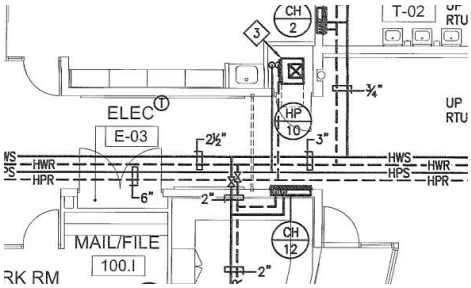
CH-12B LOBBY ISSUES

ISSUE-1236

Project / Nether Providence Elementary School / Unit Heaters / CH-12B Lobby

Floor plan graphic does not show actual location of unit. : Relocate unit on floor plan graphic serving corridor closer to Mail/File room as shown.

Status	Open
Entered	1/31/2024 8:51:36 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM



12B.png; Added on 1/31/2024 8:51:36 PM by danhainey@cm3inc.com

CH-1A Stair S-2

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

In Progress

		Design	Proposed	Final	Units
Description	CH-1A				

Notes

danhainey@cm3inc.com on 1/31/2024 6:27:31 PM:
Overview



Overview.v2.jpg; Added on 1/31/2024 6:27:31 PM by danhainey@cm3inc.com

CH-1A STAIR S-2 WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	70.6	72.1	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:38:45 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:22:33 PM

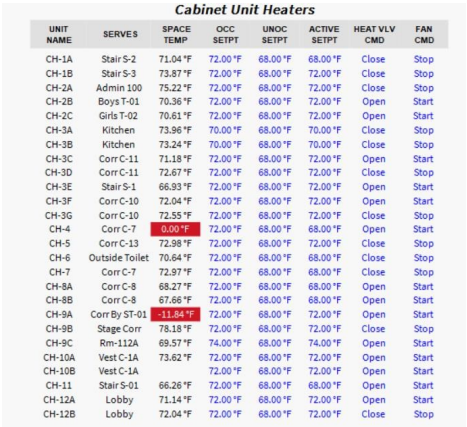
CH-1A STAIR S-2 ISSUES

ISSUE-1224

Project / Nether Providence Elementary School / Unit Heaters / CH-1A Stair S-2

Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.

Status	Open
Entered	1/31/2024 6:28:15 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM



Cabinet Unit Heaters

UNIT NAME	SERVES	SPACE TEMP	OCC SETPT	UNOC SETPT	ACTIVE SETPT	HEAT VLV CMD	FAN CMD
CH-1A	Stair S-2	71.04 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-1B	Stair S-3	73.87 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-2A	Admin 100	75.22 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-2B	Boys T-01	70.36 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-2C	Girls T-02	70.61 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3A	Kitchen	73.96 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
CH-3B	Kitchen	73.24 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
CH-3C	Corr C-11	71.18 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3D	Corr C-11	72.67 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-3E	Stair S-1	66.93 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3F	Corr C-10	72.04 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3G	Corr C-10	72.55 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-4	Corr C-7	0.00 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-5	Corr C-13	72.98 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-6	Outside Toilet	70.64 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-7	Corr C-7	72.97 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-8A	Corr C-8	68.27 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-8B	Corr C-8	67.66 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-9A	Corr By ST-01	-11.84 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-9B	Stage Corr	78.18 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-9C	Rm-112A	69.57 °F	74.00 °F	68.00 °F	74.00 °F	Open	Start
CH-10A	Vest C-1A	73.62 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-10B	Vest C-1A		72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-11	Stair S-01	66.26 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-12A	Lobby	71.14 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-12B	Lobby	72.04 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop

Occupancy.png; Added on 1/31/2024 6:28:15 PM by danhainey@cm3inc.com

CH-1B Upper Stair S-3

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-1B				

Notes

danhainey@cm3inc.com on 1/30/2024 5:38:33 PM:
Overview



Overview.v2.jpg; Added on 1/30/2024 5:38:33 PM by danhainey@cm3inc.com

CH-1B UPPER STAIR S-3 WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	74.5	74.8	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:18 PM
Marked complete by danhainey@cm3inc.com on 1/30/2024 5:44:04 PM

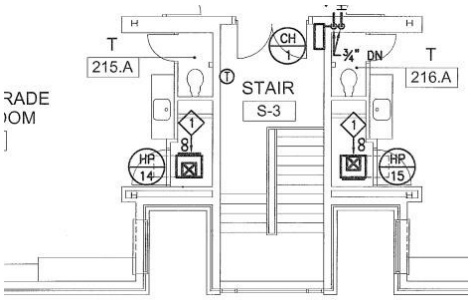
CH-1B UPPER STAIR S-3 ISSUES

ISSUE-1200

Project / Nether Providence Elementary School / Unit Heaters / CH-1B Upper Stair S-3

This unit is improperly shown on 1st floor plan graphic : Relocate unit to 2nd floor plan graphic.

Status	Open
Entered	1/30/2024 5:50:15 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



2ndFloorCUH.png; Added on 1/31/2024 5:12:35 PM by danhainey@cm3inc.com

CH-2A Admin 100

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-2A				

Notes

danhainey@cm3inc.com on 1/31/2024 9:02:06 PM:
Overview



Overview.v2.jpg; Added on 1/31/2024 9:02:06 PM by danhainey@cm3inc.com

CH-2A ADMIN 100 WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	76.4	74.8	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:24 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:31:05 PM

CH-2B Boys T-01

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-2B				

Notes

danhainey@cm3inc.com on 1/31/2024 10:05:09 PM:
Overview



Overview.v2.jpg; Added on 1/31/2024 10:05:09 PM by danhainey@cm3inc.com

CH-2B BOYS T-01 WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.2	71.6	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:24 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:31:44 PM

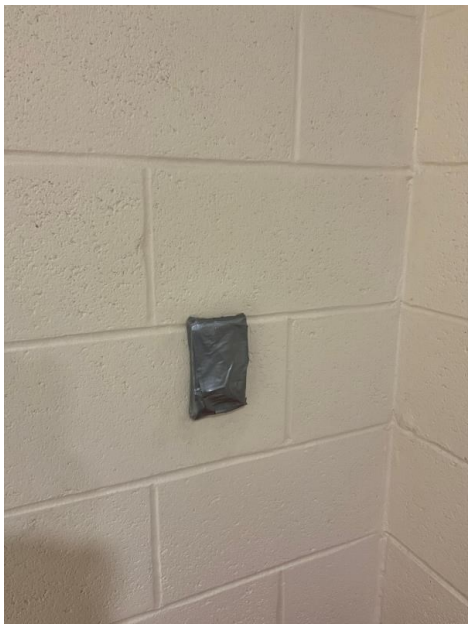
CH-2B BOYS T-01 ISSUES

ISSUE-1240

Project / Nether Providence Elementary School / Unit Heaters / CH-2B Boys T-01

Space temperature sensor is covered in duct tape. : Replace space temperature sensor.

Status	Open
Entered	1/31/2024 10:05:58 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Control Device Installation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM



TempSensor.v2.jpg; Added on 1/31/2024 10:05:58 PM by danhainey@cm3inc.com

CH-2C Girls T-02

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-2C				

Notes

danhainey@cm3inc.com on 1/31/2024 10:00:26 PM:
Overview



Overview.v2.jpg; Added on 1/31/2024 10:00:26 PM by danhainey@cm3inc.com

CH-2C GIRLS T-02 WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	70.1	71.8	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:16 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:32:01 PM

CH-3A Kitchen

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-3A				

Notes

danhainey@cm3inc.com on 2/1/2024 5:50:30 PM:
Overview



Overview.v2.jpg; Added on 2/1/2024 5:50:30 PM by danhainey@cm3inc.com

CH-3A KITCHEN WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	73.1	73.8	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:16 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:32:18 PM

CH-3B Kitchen

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-3B				

Notes

danhainey@cm3inc.com on 2/1/2024 5:42:05 PM:
Overview



Overview.v2.jpg; Added on 2/1/2024 5:42:06 PM by danhainey@cm3inc.com

CH-3B KITCHEN WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	72.9	74.6	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:18 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:32:30 PM

CH-3C Elevator C-11

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-3C				
Area Served	Close to Elevator				

Notes

danhainey@cm3inc.com on 1/30/2024 4:36:18 PM:
Overview



Overview.v2.jpg; Added on 1/30/2024 4:36:18 PM by danhainey@cm3inc.com

CH-3C ELEVATOR C-11 WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.2	72.4	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Fan Cmd	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:25 PM
Marked complete by danhainey@cm3inc.com on 1/30/2024 4:34:43 PM

CH-3C ELEVATOR C-11 ISSUES

ISSUE-1191

Project / Nether Providence Elementary School / Unit Heaters / CH-3C Elevator C-11

Hot water piping is missing insulation. : Properly insulate hot water piping.

Status	Open
Entered	1/30/2024 4:37:20 PM
Entered By	danhainey@cm3inc.com
Priority	Energy
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



Insulation.v2.jpg; Added on 1/30/2024 4:37:20 PM by danhainey@cm3inc.com

ISSUE-1192

Project / Nether Providence Elementary School / Unit Heaters / CH-3C Elevator C-11

Supply fan failed to start upon command. Control relay did not light up. : Check control wiring and programming.

Status	Open
Entered	1/30/2024 4:38:40 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



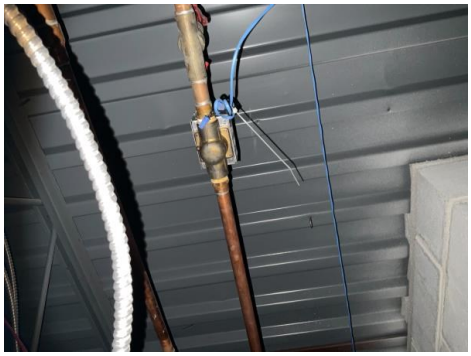
Relay.v2.jpg; Added on 1/30/2024 4:38:40 PM by danhainey@cm3inc.com

ISSUE-1194

Project / Nether Providence Elementary School / Unit Heaters / CH-3C Elevator C-11

Hot water control valve failed to close upon command. : Check control wiring and programming.

Status	Open
Entered	1/30/2024 4:43:48 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



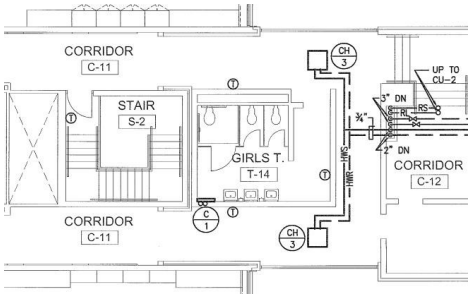
Valve.v2.jpg; Added on 1/30/2024 4:43:48 PM by danhainey@cm3inc.com

ISSUE-1206

Project / Nether Providence Elementary School / Unit Heaters / CH-3C Elevator C-11

Unit is not shown in correct location on BAS floor plan graphic. : Move close to elevator, serving Corridor C-11.

Status	Open
Entered	1/30/2024 7:43:40 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM



2ndFP.png; Added on 1/30/2024 7:43:40 PM by danhainey@cm3inc.com

CH-3D Stairs C-11

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-3D				

Notes

danhainey@cm3inc.com on 1/30/2024 5:04:18 PM:
Overview



Overview.v2.jpg; Added on 1/30/2024 5:04:18 PM by danhainey@cm3inc.com

CH-3D STAIRS C-11 WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.0	71.2	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Fan Cmd	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:25 PM
Marked complete by danhainey@cm3inc.com on 1/30/2024 5:17:17 PM

CH-3D STAIRS C-11 ISSUES

ISSUE-1196

Project / Nether Providence Elementary School / Unit Heaters / CH-3D Stairs C-11

Hot water piping is missing insulation. : Properly insulate hot water piping.

Status	Open
Entered	1/30/2024 5:03:55 PM
Entered By	danhainey@cm3inc.com
Priority	Energy
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



Piping.v2.jpg; Added on 1/30/2024 5:03:56 PM by danhainey@cm3inc.com

ISSUE-1197

Project / Nether Providence Elementary School / Unit Heaters / CH-3D Stairs C-11

Supply fan failed to start upon command. Control relay did not light up. : Check control wiring and programming.

Status	Open
Entered	1/30/2024 5:04:58 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



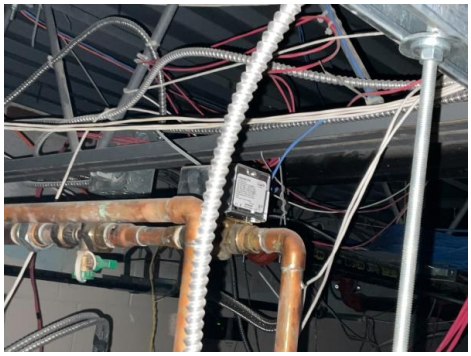
Relay.v2.jpg; Added on 1/30/2024 5:04:59 PM by danhainey@cm3inc.com

ISSUE-1198

Project / Nether Providence Elementary School / Unit Heaters / CH-3D Stairs C-11

Hot water control valve failed to close upon command. : Check control wiring and programming.

Status	Open
Entered	1/30/2024 5:05:56 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



Control Valve.v2.jpg; Added on 1/30/2024 5:05:57 PM by danhainey@cm3inc.com

CH-3E Upper Stair S-1

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-3E				
Location	Corridor				

Notes

danhainey@cm3inc.com on 1/30/2024 9:15:13 PM:
Overview



Overview.v2.jpg; Added on 1/30/2024 9:15:14 PM by danhainey@cm3inc.com

CH-3E UPPER STAIR S-1 WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	68.5	67.2	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:17 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:32:58 PM

CH-3E UPPER STAIR S-1 ISSUES

ISSUE-1210

Project / Nether Providence Elementary School / Unit Heaters / CH-3E Upper Stair S-1

Unit has no hot water flow and unable to heat. : Check control valve and piping.

Status	Open
Entered	1/30/2024 9:38:05 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM

CH-3F Corridor C-10

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-3F				
Location	Corridor				

Notes

danhainey@cm3inc.com on 1/30/2024 9:04:26 PM:
Overview



Overview.v2.jpg; Added on 1/30/2024 9:04:26 PM by danhainey@cm3inc.com

CH-3F CORRIDOR C-10 WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.5	72.4	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:18 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:33:17 PM

CH-3G Corridor C-10

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-3G				
Location	Corridor				

Notes

danhainey@cm3inc.com on 1/30/2024 8:32:50 PM:
Overview



Overview.v2.jpg; Added on 1/30/2024 8:32:51 PM by danhainey@cm3inc.com

CH-3G CORRIDOR C-10 WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.4	72.6	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	✔	☐	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:22 PM
Marked complete by danhainey@cm3inc.com on 1/30/2024 8:31:33 PM

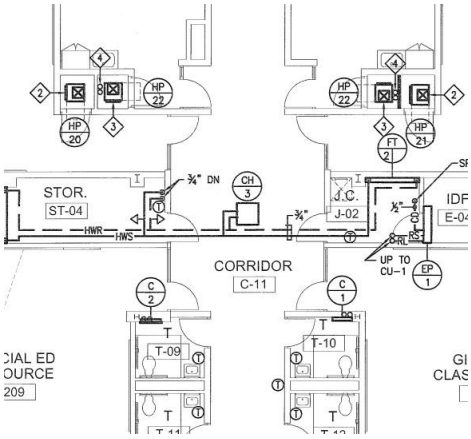
CH-3G CORRIDOR C-10 ISSUES

ISSUE-1209

Project / Nether Providence Elementary School / Unit Heaters / CH-3G Corridor C-10

Unit is not shown on BAS floor plan graphic in correct location. : Relocate on graphic, outside of Janitors Closet.

Status	Open
Entered	1/30/2024 8:34:47 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM



CH3FP.png; Added on 1/30/2024 8:34:48 PM by danhainey@cm3inc.com

CH-4 Corridor C-7

Project / Nether Providence Elementary School / Unit Heaters

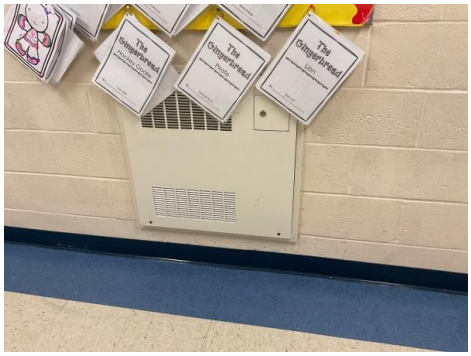
Cabinet Unit Heater

In Progress

		Design	Proposed	Final	Units
Description	CH-4				

Notes

danhainey@cm3inc.com on 1/31/2024 5:35:54 PM:
Overview



Overview.v2.jpg; Added on 1/31/2024 5:35:54 PM by danhainey@cm3inc.com

CH-4 CORRIDOR C-7 WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.5	0.0	☐	✔	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Fan Cmd	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:17 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:33:38 PM

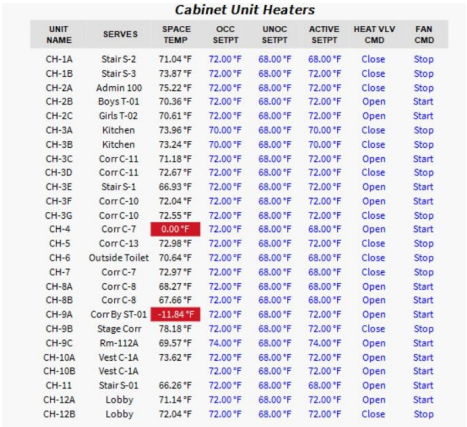
CH-4 CORRIDOR C-7 ISSUES

ISSUE-1217

Project / Nether Providence Elementary School / Unit Heaters / CH-4 Corridor C-7

Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.

Status	Open
Entered	1/31/2024 5:38:00 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM



Cabinet Unit Heaters

UNIT NAME	SERVES	SPACE TEMP	OCC SETPT	UNOC SETPT	ACTIVE SETPT	HEAT VLV CMD	FAN CMD
CH-1A	Stair S-2	71.04 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-1B	Stair S-3	73.87 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-2A	Admin 100	75.22 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-2B	Boys T-01	70.36 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-2C	Girls T-02	70.61 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3A	Kitchen	73.96 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
CH-3B	Kitchen	73.24 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
CH-3C	Corr C-11	71.18 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3D	Corr C-11	72.67 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-3E	Stair S-1	66.93 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3F	Corr C-10	72.04 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3G	Corr C-10	72.55 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-4	Corr C-7	0.00 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-5	Corr C-13	72.98 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-6	Outside Toilet	70.64 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-7	Corr C-7	72.97 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-8A	Corr C-8	68.27 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-8B	Corr C-8	67.66 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-9A	Corr By ST-01	-11.84 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-9B	Stage Corr	78.18 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-9C	Rm-112A	69.57 °F	74.00 °F	68.00 °F	74.00 °F	Open	Start
CH-10A	Vest C-1A	73.62 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-10B	Vest C-1A		72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-11	Stair S-01	66.26 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-12A	Lobby	71.14 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-12B	Lobby	72.04 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop

Occupancy.png; Added on 1/31/2024 5:38:00 PM by danhainey@cm3inc.com

ISSUE-1218

Project / Nether Providence Elementary School / Unit Heaters / CH-4 Corridor C-7

Hot water control valve failed to close upon command. : Check control wiring and programming.

Status	Open
Entered	1/31/2024 5:38:52 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM

ISSUE-1219

Project / Nether Providence Elementary School / Unit Heaters / CH-4 Corridor C-7

Supply fan failed to start upon command. : Check control wiring and programming.

Status	Open
Entered	1/31/2024 5:39:57 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM

ISSUE-1220

Project / Nether Providence Elementary School / Unit Heaters / CH-4 Corridor C-7

Space temperature sensor reads 0.00 degrees F. : Check wiring. Replace space temperature sensor as required.

Status	Open
Entered	1/31/2024 5:42:26 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM



Space.v2.jpg; Added on 1/31/2024 5:42:26 PM by danhainey@cm3inc.com

CH-4 Vestibule near Music

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-4				

Notes

danhainey@cm3inc.com on 2/1/2024 4:19:54 PM:
Overview



Overview.v2.jpg; Added on 2/1/2024 4:19:55 PM by danhainey@cm3inc.com

CH-4 VESTIBULE NEAR MUSIC WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.9	72.5	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 2/1/2024 4:15:02 PM
Marked complete by danhainey@cm3inc.com on 2/1/2024 4:19:03 PM

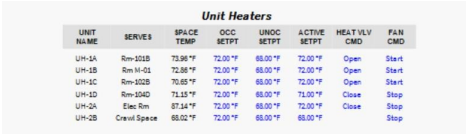
CH-4 VESTIBULE NEAR MUSIC ISSUES

ISSUE-1241

Project / Nether Providence Elementary School / Unit Heaters / CH-4 Vestibule near Music

This unit is incorrectly integrated as UH-1B at the BAS. : Correct integration (points, graphic, database).

Status	Open
Entered	2/1/2024 4:24:02 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM



Unit Heaters

UNIT NAME	SERVES	SPACE TEMP	OCC SETPT	UNOC SETPT	ACTIVE SETPT	HEAT VLV CMD	FAN CMD
UH-1A	Rm-101B	73.96 °F	72.00 °F	65.00 °F	72.00 °F	Open	Start
UH-1B	Rm M-01	72.86 °F	72.00 °F	65.00 °F	72.00 °F	Open	Start
UH-1C	Rm-102B	70.65 °F	72.00 °F	65.00 °F	72.00 °F	Open	Start
UH-1D	Rm-104D	71.15 °F	72.00 °F	65.00 °F	71.00 °F	Close	Stop
UH-2A	Elec Rm	67.14 °F	72.00 °F	65.00 °F	72.00 °F	Close	Stop
UH-2B	Crawl Space	65.02 °F	72.00 °F	65.00 °F	65.00 °F		Stop

UH1B.png; Added on 2/1/2024 4:24:03 PM by danhainey@cm3inc.com

CH-5 Corridor C-13

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-5				

Notes

danhainey@cm3inc.com on 1/30/2024 5:36:03 PM:
Overview



Overview.v2.jpg; Added on 1/30/2024 5:36:03 PM by danhainey@cm3inc.com

CH-5 CORRIDOR C-13 WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	73.9	73.1	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:17 PM
Marked complete by danhainey@cm3inc.com on 1/30/2024 5:25:17 PM

CH-6 Outside Toilet

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

In Progress

		Design	Proposed	Final	Units
Description	CH-6				

Notes

danhainey@cm3inc.com on 1/31/2024 5:53:34 PM:
Overview



Overview.v2.jpg; Added on 1/31/2024 5:53:34 PM by danhainey@cm3inc.com

CH-6 OUTSIDE TOILET WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	70.3	71.2	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:24 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:33:55 PM

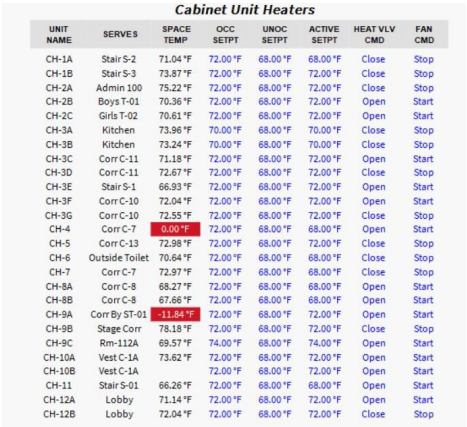
CH-6 OUTSIDE TOILET ISSUES

ISSUE-1221

Project / Nether Providence Elementary School / Unit Heaters / CH-6 Outside Toilet

Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.

Status	Open
Entered	1/31/2024 5:54:35 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM



Cabinet Unit Heaters

UNIT NAME	SERVES	SPACE TEMP	OCC SETPT	UNOC SETPT	ACTIVE SETPT	HEAT VLV CMD	FAN CMD
CH-1A	Stair S-2	71.04 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-1B	Stair S-3	73.87 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-2A	Admin 100	75.22 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-2B	Boys T-01	70.36 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-2C	Girls T-02	70.61 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3A	Kitchen	73.96 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
CH-3B	Kitchen	73.24 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
CH-3C	Corr C-11	71.18 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3D	Corr C-11	72.67 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-3E	Stair S-1	66.93 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3F	Corr C-10	72.04 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3G	Corr C-10	72.55 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-4	Corr C-7	0.00 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-5	Corr C-13	72.98 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-6	Outside Toilet	70.64 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-7	Corr C-7	72.97 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-8A	Corr C-8	68.27 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-8B	Corr C-8	67.66 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-9A	Corr By ST-01	-11.84 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-9B	Stage Corr	78.18 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-9C	Rm-112A	69.57 °F	74.00 °F	68.00 °F	74.00 °F	Open	Start
CH-10A	Vest C-1A	73.62 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-10B	Vest C-1A		72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-11	Stair S-01	66.26 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-12A	Lobby	71.14 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-12B	Lobby	72.04 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop

Occupancy.png; Added on 1/31/2024 5:54:35 PM by danhainey@cm3inc.com

CH-7 Lower Stairs

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

In Progress

		Design	Proposed	Final	Units
Description	CH-7				
Location Description	Between J-02 and Stor ST-04				

Notes

danhainey@cm3inc.com on 1/31/2024 5:25:43 PM:
Overview



Overview.v2.jpg; Added on 1/31/2024 5:25:43 PM by danhainey@cm3inc.com

CH-7 LOWER STAIRS WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.0	72.6	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	88	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:25 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:34:13 PM

CH-7 LOWER STAIRS ISSUES

ISSUE-1215

Project / Nether Providence Elementary School / Unit Heaters / CH-7 Lower Stairs

Hot water control valve failed to close upon command. : Check control wiring and programming.

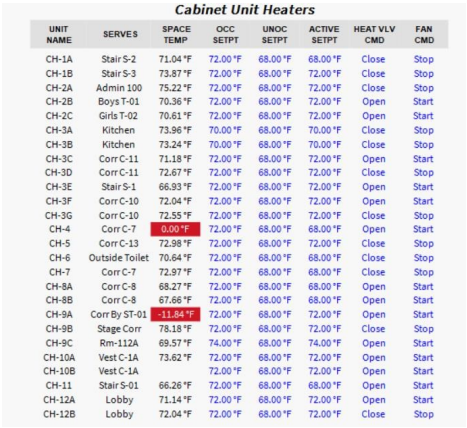
Status	Open
Entered	1/31/2024 5:26:54 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM

ISSUE-1216

Project / Nether Providence Elementary School / Unit Heaters / CH-7 Lower Stairs

Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.

Status	Open
Entered	1/31/2024 5:30:12 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM



Cabinet Unit Heaters

UNIT NAME	SERVES	SPACE TEMP	OCC SETPT	UNOC SETPT	ACTIVE SETPT	HEAT VLV CMD	FAN CMD
CH-1A	Stair S-2	71.04 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-1B	Stair S-3	73.87 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-2A	Admin 100	75.22 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-2B	Boys T-01	70.36 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-2C	Girls T-02	70.61 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3A	Kitchen	73.96 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
CH-3B	Kitchen	73.24 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
CH-3C	Corr C-11	71.18 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3D	Corr C-11	72.67 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-3E	Stair S-1	66.93 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3F	Corr C-10	72.04 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3G	Corr C-10	72.55 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-4	Corr C-7	0.00 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-5	Corr C-13	72.98 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-6	Outside Toilet	70.64 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-7	Corr C-7	72.97 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-8A	Corr C-8	68.27 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-8B	Corr C-8	67.66 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-9A	Corr By ST-01	-11.84 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-9B	Stage Corr	78.18 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-9C	Rm-112A	69.57 °F	74.00 °F	68.00 °F	74.00 °F	Open	Start
CH-10A	Vest C-1A	73.62 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-10B	Vest C-1A		72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-11	Stair S-01	66.26 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-12A	Lobby	71.14 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-12B	Lobby	72.04 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop

Occupancy.png; Added on 1/31/2024 5:30:13 PM by danhainey@cm3inc.com

CH-8A Lobby C-8

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

In Progress

		Design	Proposed	Final	Units
Description	CH-8A				

Notes

danhainey@cm3inc.com on 1/31/2024 6:05:05 PM:
Overview



Overview.v2.jpg; Added on 1/31/2024 6:05:05 PM by danhainey@cm3inc.com

CH-8A LOBBY C-8 WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	69.2	68.6	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 7:26:54 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:34:29 PM

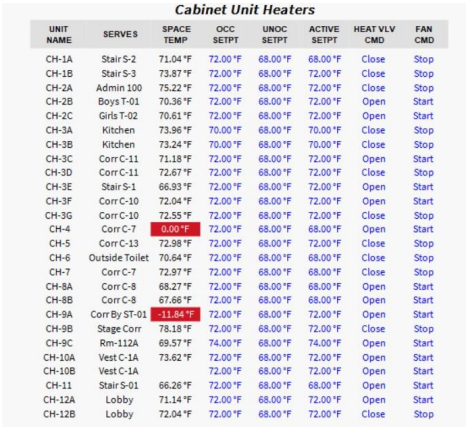
CH-8A LOBBY C-8 ISSUES

ISSUE-1222

Project / Nether Providence Elementary School / Unit Heaters / CH-8A Lobby C-8

Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.

Status	Open
Entered	1/31/2024 6:05:57 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	bencohen@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM



Cabinet Unit Heaters

UNIT NAME	SERVES	SPACE TEMP	OCC SETPT	UNOC SETPT	ACTIVE SETPT	HEAT VLV CMD	FAN CMD
CH-1A	Stair S-2	71.04 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-1B	Stair S-3	73.87 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-2A	Admin 100	75.22 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-2B	Boys T-01	70.36 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-2C	Girls T-02	70.61 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3A	Kitchen	73.96 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
CH-3B	Kitchen	73.24 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
CH-3C	Corr C-11	71.18 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3D	Corr C-11	72.67 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-3E	Stair S-1	66.93 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3F	Corr C-10	72.04 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3G	Corr C-10	72.55 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-4	Corr C-7	0.00 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-5	Corr C-13	72.98 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-6	Outside Toilet	70.64 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-7	Corr C-7	72.97 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-8A	Corr C-8	68.27 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-8B	Corr C-8	67.66 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-9A	Corr By ST-01	-11.84 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-9B	Stage Corr	78.18 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-9C	Rm-112A	69.57 °F	74.00 °F	68.00 °F	74.00 °F	Open	Start
CH-10A	Vest C-1A	73.62 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-10B	Vest C-1A		72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-11	Stair S-01	66.26 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-12A	Lobby	71.14 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-12B	Lobby	72.04 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop

Occupancy.png; Added on 1/31/2024 6:05:57 PM by danhainey@cm3inc.com

CH-8B Lobby C-8

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

In Progress

		Design	Proposed	Final	Units
Description	CH-8B				

Notes

danhainey@cm3inc.com on 1/31/2024 6:14:13 PM:
Overview



Overview.v2.jpg; Added on 1/31/2024 6:14:13 PM by danhainey@cm3inc.com

CH-8B LOBBY C-8 WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	68.2	67.4	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/30/2024 7:26:54 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:34:46 PM

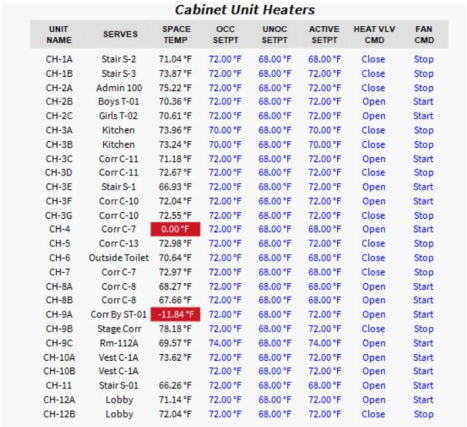
CH-8B LOBBY C-8 ISSUES

ISSUE-1223

Project / Nether Providence Elementary School / Unit Heaters / CH-8B Lobby C-8

Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.

Status	Open
Entered	1/31/2024 6:14:46 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	bencohen@cm3inc.com
Respondent Status	Open
Due Date	2/7/2024 12:00:00 AM



Cabinet Unit Heaters

UNIT NAME	SERVES	SPACE TEMP	OCC SETPT	UNOC SETPT	ACTIVE SETPT	HEAT VLV CMD	FAN CMD
CH-1A	Stair S-2	71.04 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-1B	Stair S-3	73.87 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-2A	Admin 100	75.22 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-2B	Boys T-01	70.36 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-2C	Girls T-02	70.61 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3A	Kitchen	73.96 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
CH-3B	Kitchen	73.24 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
CH-3C	Corr C-11	71.18 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3D	Corr C-11	72.67 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-3E	Stair S-1	66.93 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3F	Corr C-10	72.04 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-3G	Corr C-10	72.55 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-4	Corr C-7	0.00 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-5	Corr C-13	72.98 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-6	Outside Toilet	70.64 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-7	Corr C-7	72.97 °F	72.00 °F	68.00 °F	68.00 °F	Close	Stop
CH-8A	Corr C-8	68.27 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-8B	Corr C-8	67.66 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-9A	Corr By ST-01	-11.84 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-9B	Stage Corr	78.18 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop
CH-9C	Rm-112A	69.57 °F	74.00 °F	68.00 °F	74.00 °F	Open	Start
CH-10A	Vest C-1A	73.62 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-10B	Vest C-1A		72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-11	Stair S-01	66.26 °F	72.00 °F	68.00 °F	68.00 °F	Open	Start
CH-12A	Lobby	71.14 °F	72.00 °F	68.00 °F	72.00 °F	Open	Start
CH-12B	Lobby	72.04 °F	72.00 °F	68.00 °F	72.00 °F	Close	Stop

Occupancy.png; Added on 1/31/2024 6:14:47 PM by danhainey@cm3inc.com

CH-9A Corridor by ST-01

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-9A				

Notes

danhainey@cm3inc.com on 1/31/2024 10:21:04 PM:
Overview



Overview.v2.jpg; Added on 1/31/2024 10:21:04 PM by danhainey@cm3inc.com

CH-9A CORRIDOR BY ST-01 WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	72.1	-11.84	☐	✔	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:25 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:35:02 PM

CH-9A CORRIDOR BY ST-01 ISSUES

ISSUE-1231

Project / Nether Providence Elementary School / Unit Heaters / CH-9A Corridor by ST-01

Space temperature sensor reads -11.84 degrees F. Unable to locate sensor. : Repair or install a space temperature as required.

Status	Open
Entered	1/31/2024 7:43:18 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Control Device Installation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM



SpacTemp.v2.jpg; Added on 1/31/2024 10:19:44 PM by danhainey@cm3inc.com

CH-9B Stage Corridor

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-9B				

Notes

danhainey@cm3inc.com on 2/1/2024 6:07:20 PM:
Overview



Overview.v2.jpg; Added on 2/1/2024 6:07:20 PM by danhainey@cm3inc.com

CH-9B STAGE CORRIDOR WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	72.0	72.8	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:23 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:35:23 PM

CH-9C Corridor near Nurse

Project / Nether Providence Elementary School / Unit Heaters

Cabinet Unit Heater

Complete

		Design	Proposed	Final	Units
Description	CH-9C				

Notes

danhainey@cm3inc.com on 1/31/2024 8:04:54 PM:
Overview



Overview.v2.jpg; Added on 1/31/2024 8:04:54 PM by danhainey@cm3inc.com

CH-9C CORRIDOR NEAR NURSE WORK

Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.5	71.3	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Fam Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:16 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:35:39 PM

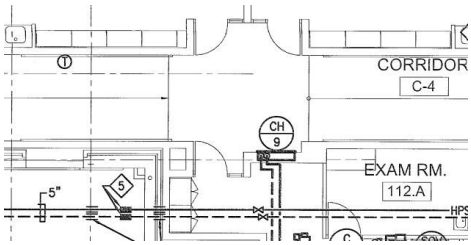
CH-9C CORRIDOR NEAR NURSE ISSUES

ISSUE-1232

Project / Nether Providence Elementary School / Unit Heaters / CH-9C Corridor near Nurse

Unit is mislabeled as serving Room 112B on BAS overview and floor plan graphic. :
Relocate and rename unit to serve corridor near the nurse.

Status	Open
Entered	1/31/2024 8:09:30 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM



CH9A.png; Added on 1/31/2024 8:09:30 PM by danhainey@cm3inc.com

ISSUE-1234

Project / Nether Providence Elementary School / Unit Heaters / CH-9C Corridor near Nurse

Hot water control valve failed to close upon command. : Check control wiring and programming.

Status	Open
Entered	1/31/2024 8:25:11 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM

UH-1A Room 101B

Project / Nether Providence Elementary School / Unit Heaters

Unit Heater

Complete

		Design	Proposed	Final	Units
Description	UH-1A				

Notes

danhainey@cm3inc.com on 2/2/2024 1:07:42 PM:
Overview



Overview.v2.jpg; Added on 2/2/2024 1:07:42 PM by danhainey@cm3inc.com

UH-1A ROOM 101B WORK

Functional Checklist

UH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	69.1	70.4	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	----	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	----	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:19 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:12:01 PM

UH-1C Room 102B Storage

Project / Nether Providence Elementary School / Unit Heaters

Unit Heater

Complete

		Design	Proposed	Final	Units
Description	UH-1C				

UH-1C ROOM 102B STORAGE WORK

Functional Checklist

UH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	68.3	70.2	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:26 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:38:26 PM

Notes

danhainey@cm3inc.com on 2/1/2024 4:47:54 PM:
Overview



Overview.v2.jpg; Added on 2/1/2024 4:47:54 PM by danhainey@cm3inc.com

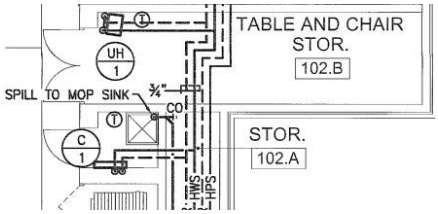
UH-1C ROOM 102B STORAGE ISSUES

ISSUE-1245

Project / Nether Providence Elementary School / Unit Heaters / UH-1C Room 102B Storage

This unit is improperly located on the BAS floor plan graphic. : Relocate unit on BAS floor plan graphic to serve Storage 102B.

Status	Open
Entered	2/1/2024 5:14:46 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM



UHC.png; Added on 2/1/2024 5:14:46 PM by danhainey@cm3inc.com

UH-1D Room 104D

Project / Nether Providence Elementary School / Unit Heaters

Unit Heater

Complete

		Design	Proposed	Final	Units
Description	UH-1D				

Notes

danhainey@cm3inc.com on 2/1/2024 5:59:56 PM:
Overview



Overview.v2.jpg; Added on 2/1/2024 5:59:56 PM by danhainey@cm3inc.com

UH-1D ROOM 104D WORK

Functional Checklist

UH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	72.6	71.1	✔	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:26 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 1:38:43 PM

UH-2A MER

Project / Nether Providence Elementary School / Unit Heaters

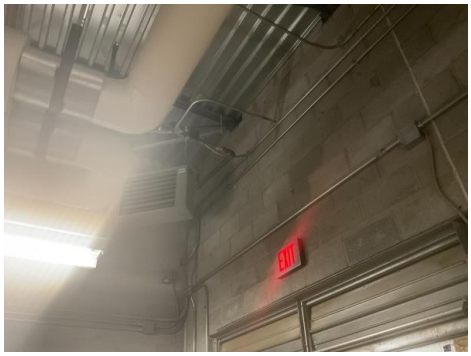
Unit Heater

Complete

		Design	Proposed	Final	Units
Description	UH-2A				
Location	Ceiling				

Notes

danhainey@cm3inc.com on 2/2/2024 2:24:49 PM:
Overview



Overview.v2.jpg; Added on 2/2/2024 2:24:50 PM by danhainey@cm3inc.com

UH-2A MER WORK

Functional Checklist

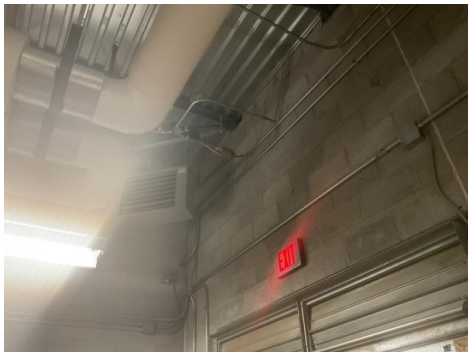
UH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	84.9	88.4	☐	✔	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Heating Valve	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Fan Cmd	BO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	68.0	✔	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:19 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 2:11:35 PM

Notes

danhainey@cm3inc.com on 2/2/2024 2:06:24 PM:
Overview



Overview.v2.jpg; Added on 2/2/2024 2:06:24 PM by danhainey@cm3inc.com

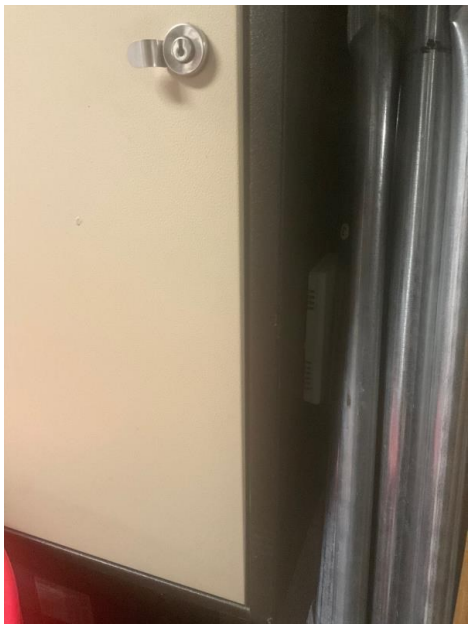
UH-2A MER ISSUES

ISSUE-1260

Project / Nether Providence Elementary School / Unit Heaters / UH-2A MER

Space temperature sensor reads over 3 degrees F too high. : Calibrate or replace space temperature sensor.

Status	Open
Entered	2/2/2024 2:22:37 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Calibration
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



SpaceTemperature.v2.jpg; Added on 2/2/2024 2:22:38 PM by danhainey@cm3inc.com

ISSUE-1261

Project / Nether Providence Elementary School / Unit Heaters / UH-2A MER

Hot water supply and hot water return piping is missing insulation. : Professionally insulate hot water piping.

Status	Open
Entered	2/2/2024 2:24:08 PM
Entered By	danhainey@cm3inc.com
Priority	Energy
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



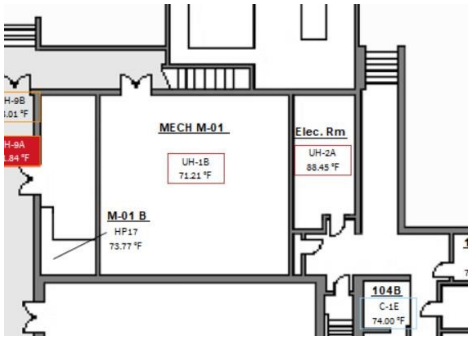
Insulation.v2.jpg; Added on 2/2/2024 2:24:09 PM by danhainey@cm3inc.com

ISSUE-1262

Project / Nether Providence Elementary School / Unit Heaters / UH-2A MER

The BAS floor plan graphic incorrectly shows this unit in the electrical room : Relocate unit to the mechanical room. There is no BAS controlled hydronic unit heater in the electrical room, only a stanalone electric unit heater exists.

Status	Open
Entered	2/2/2024 2:33:23 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



MER.png; Added on 2/2/2024 2:33:23 PM by danhainey@cm3inc.com

UH-2B Crawl Space

Project / Nether Providence Elementary School / Unit Heaters

Unit Heater

In Progress

		Design	Proposed	Final	Units
Description	UH-2B				

UH-2B CRAWL SPACE WORK

Functional Checklist

UH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Heating Valve	AO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Not Started

Assigned to dmychaluk@cm3inc.com
Created by danhainey@cm3inc.com on 1/26/2024 1:43:26 PM

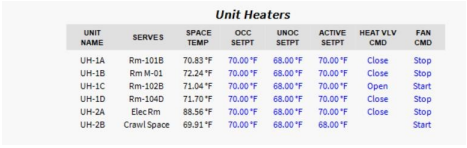
UH-2B CRAWL SPACE ISSUES

ISSUE-1266

Project / Nether Providence Elementary School / Unit Heaters / UH-2B Crawl Space

Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.

Status	Open
Entered	2/2/2024 2:49:29 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



Unit Heaters

UNIT NAME	SERVES	SPACE TEMP	OCC SETPT	UNOC SETPT	ACTIVE SETPT	HEAT VLV CMD	FAN CMD
UH-1A	Rm-101B	70.83 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
UH-1B	Rm M-01	72.24 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
UH-1C	Rm-102B	71.04 °F	70.00 °F	68.00 °F	70.00 °F	Open	Start
UH-1D	Rm-104D	71.70 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
UH-2A	Elec Rm	88.56 °F	70.00 °F	68.00 °F	70.00 °F	Close	Stop
UH-2B	Crawl Space	69.91 °F	70.00 °F	68.00 °F	68.00 °F		Start

UH.png; Added on 2/2/2024 2:49:29 PM by danhainey@cm3inc.com

WSHP - General Findings

Project / Nether Providence Elementary School / Water Source Heat Pumps

Heating Water System

In Progress

Design	Proposed	Final	Units

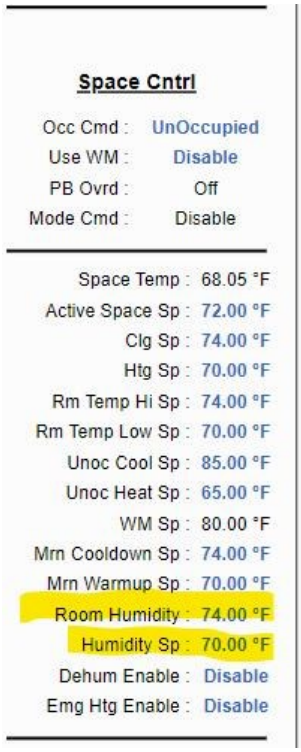
WSHP - GENERAL FINDINGS ISSUES

ISSUE-1128

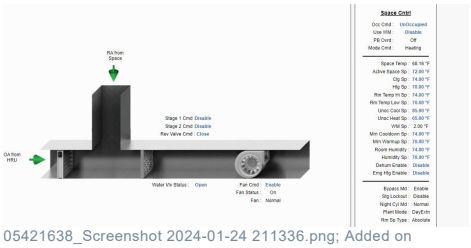
Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP - General Findings

BAS graphic needs updating to reflect zone humidity sensor, one compressor, no emergency heat, and active setpoint values are not accurate and are the wrong facet. coil is removed on some units when unit is satisfied (HP123) : Recommend correction of graphic

Status	Open
Entered	1/24/2024 7:54:14 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



Screenshot 2024-01-24 195256.png; Added on 1/24/2024 7:54:15



05421638_Screenshot 2024-01-24 211336.png; Added on 1/24/2024 9:14:05 PM by dmychaluk@cm3inc.com

PM by dmychaluk@cm3inc.com

ISSUE-1129

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP - General Findings

Isolation valve open while unit is unoccupied. : Recommend replacement of controller. Include programming to enable the isolation valve only when calling for a compressor.

Status	Open
Entered	1/24/2024 7:59:28 PM
Entered By	dmychaluk@cm3inc.com
Priority	Energy
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



UNIT NAME	SERVES	SPACE TEMP	OCC SP	HEAT SETPT	COOL SETPT	OCC CMD	COMP STG-1	COMP STG-2	REV VLV CMD	WATER VLV CMD	FAN CMD	FAN STATUS
HP1A	Rm-127	70.68 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Enable	Enable	Close	Open	Enable	On
HP1B	Rm-129	68.23 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Enable	Disable	Close	Open	Enable	On
HP2A	Rm-126	69.64 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP2B	Rm-128	68.17 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	On
HP3	Rm-125	68.90 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Close	Disable	Off
HP4A	Rm-121	70.02 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP4B	Rm-115	71.37 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP4C	Rm-123	68.61 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Close	Disable	Off
HP5	Rm-124	69.33 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP6A	Rm-122	69.28 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP6B	Rm-116	69.24 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP7A	Rm-118	71.54 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP7B	Rm-119	70.99 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP7C	Rm-120	70.83 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP8	Rm-117	70.33 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP9A	Rm-113	69.74 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP9B	Rm-114	69.19 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP10A	Rm-108	67.70 °F	72.00 °F	72.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP10B	Rm-109	71.52 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP10C	Rm-110	69.75 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP10D	Rm-111	69.99 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP11	Rm-107	71.07 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP12	Rm-106	67.79 °F	70.00 °F	68.00 °F	72.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP13	Rm-105	68.48 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP14A	Rm-215	69.89 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP14B	Rm-213	70.56 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off
HP15A	Rm-216	69.14 °F	72.00 °F	70.00 °F	74.00 °F	UnOccupied	Disable	Disable	Close	Open	Disable	Off

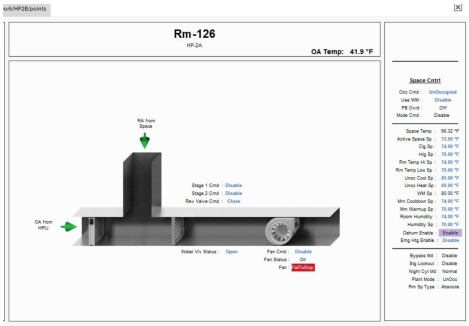
18292347_Screenshot 2024-01-24 200539.png; Added on 1/24/2024 8:06:18 PM by dmychaluk@cm3inc.com

ISSUE-1137

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP - General Findings

When dehumidification is manually enabled, fan command shows disabled, compressor shows disabled, and coil graphic disappears. : Correct graphics as required.

Status	Open
Entered	1/24/2024 9:44:17 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



Dehumidification.png; Added on 1/24/2024 9:44:17 PM by danhainey@cm3inc.com

ISSUE-1138

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP - General Findings

Humidity setpoint is linked to morning warmup setpoint. : Correct dehumidification setpoint on graphic. Confirm unit operates in dehumidification mode when this setpoint is exceeded.

Status	Open
Entered	1/24/2024 9:47:42 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



Setpoint.png; Added on 1/24/2024 9:47:42 PM by danhainey@cm3inc.com

ISSUE-1323

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP - General Findings

Isolation control valves have a high rate of failure and are not functioning as expected. Additionally there are no isolation valves prior to the control valve which prevent proper servicing of the equipment. : Recommend replacement of valve and actuator and installation of an isolation valve prior to the actuator.

Status	Open
Entered	3/1/2024 12:11:38 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	3/8/2024 12:00:00 AM

WSHP-101A Gymnasium Office

Project / Nether Providence Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-25				
Location	Ceiling				

Notes

danhainey@cm3inc.com on 2/2/2024 7:23:10 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 2/2/2024 7:23:10 PM by danhainey@cm3inc.com


Overview.v2.jpg; Added on 2/2/2024 7:23:10 PM by danhainey@cm3inc.com

WSHP-101A GYMNASIUM OFFICE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	37.6	31.6	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	67.5	69.7	☐	✔	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	60.0	✔	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:09:36 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 7:41:41 PM

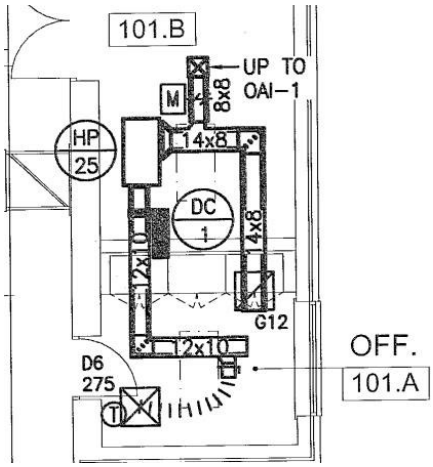
WSHP-101A GYMNASIUM OFFICE ISSUES

ISSUE-1249

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-101A Gymnasium Office

Unit is equipped with an electric duct coil (DC-1) and an outside air motorized damper. Neither are shown on the BAS graphic. : Correct BAS graphic to illustrate existence and functionality of this equipment. Outside air motorized damper found functional.

Status	Open
Entered	2/1/2024 7:10:36 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



HP25.png; Added on 2/1/2024 7:10:36 PM by danhainey@cm3inc.com

ISSUE-1282

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-101A Gymnasium Office

Unit failed to engage dehumidification mode. Unit is located in a storage room and unable to confirm equipment has this functionality. : Further check unit once better access is made available.

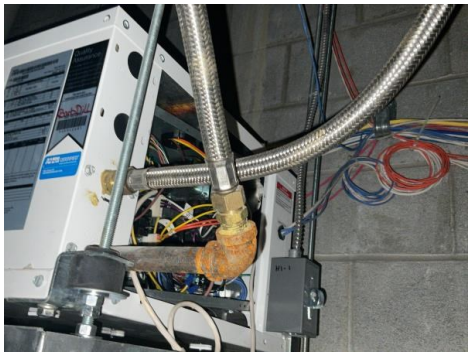
Status	Open
Entered	2/2/2024 7:09:25 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/10/2024 12:00:00 AM

ISSUE-1283

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-101A Gymnasium Office

Unit is missing a cabinet or enclosure panel. : Reinstall correct cabinet panel.

Status	Open
Entered	2/2/2024 7:24:49 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/10/2024 12:00:00 AM



Panel.v2.jpg; Added on 2/2/2024 7:24:49 PM by danhainey@cm3inc.com

ISSUE-1284

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-101A Gymnasium Office

Space sensor is inaccurate with both space humidity and space temperature. : Calibrate or replace space humidity and temperature sensor.

Status	Open
Entered	2/2/2024 7:26:06 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Calibration
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/10/2024 12:00:00 AM



SpaceSensor.v2.jpg; Added on 2/2/2024 7:26:06 PM by danhainey@cm3inc.com

ISSUE-1285

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-101A Gymnasium Office

Filter was found improperly installed and unit is missing filter door. : Replace filter door.

Status	Open
Entered	2/2/2024 7:27:56 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/10/2024 12:00:00 AM



FilterDoor.v2.jpg; Added on 2/2/2024 7:27:56 PM by danhainey@cm3inc.com

ISSUE-1286

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-101A Gymnasium Office

Unit fails to maintain operation after occupancy bypass button is pressed. : Check programming.

Status	Open
Entered	2/2/2024 7:40:02 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/10/2024 12:00:00 AM

WSHP-104 KitchenStorage,Office

Project / Nether Providence Elementary School / Water Source Heat Pumps

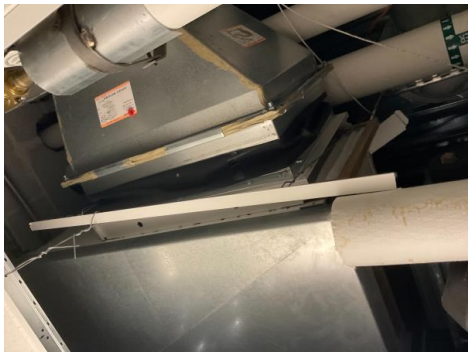
WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-24				
Location	Ceiling				

Notes

danhainey@cm3inc.com on 2/1/2024 6:52:12 PM:
Overview



Overview.v2.jpg; Added on 2/1/2024 6:52:12 PM by danhainey@cm3inc.com

WSHP-104 KITCHENSTORAGE,OFFICE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	☐	Communication loss
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Dehumidifcation Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 1	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Isolation Valve	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Reversing Valve	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupancy Bypass	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

In Progress

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:36 PM
Last edit by danhainey@cm3inc.com on 2/2/2024 2:53:16 PM

WSHP-104 KITCHENSTORAGE,OFFICE ISSUES

ISSUE-1247

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-104 KitchenStorage,Office

Filter is not correct size and filter door is not installed. : Install filter of correct specification and filter door.

Status	Open
Entered	2/1/2024 6:53:36 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM



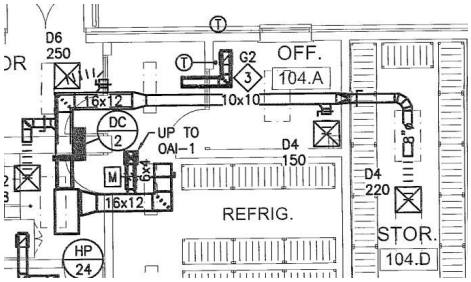
Filter.v2.jpg; Added on 2/1/2024 6:53:37 PM by danhainey@cm3inc.com

ISSUE-1248

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-104 KitchenStorage,Office

Unit is equipped with an electric duct coil (DC-2) and an outside air motorized damper. Neither are shown on the BAS graphic. : Correct BAS graphic to illustrate existence and functionality of this equipment.

Status	Open
Entered	2/1/2024 7:04:44 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/8/2024 12:00:00 AM



DC2.png; Added on 2/1/2024 7:04:44 PM by danhainey@cm3inc.com

WSHP-105 MusicRoom

Project / Nether Providence Elementary School / Water Source Heat Pumps

WSHP

Complete

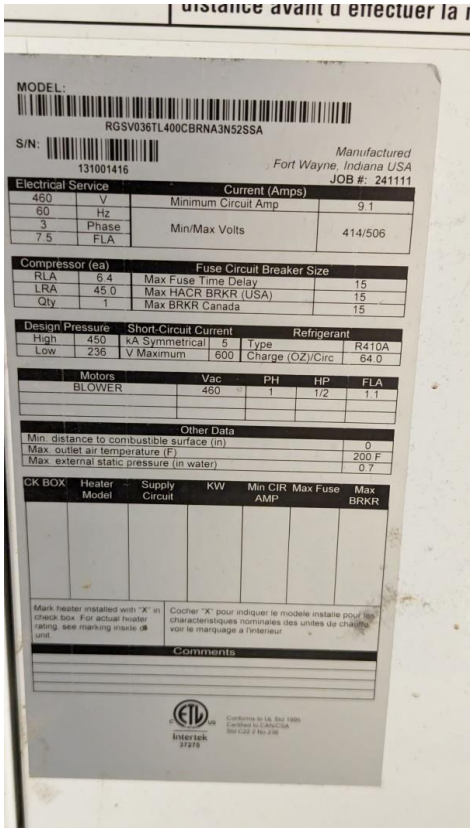
		Design	Proposed	Final	Units
Description	HP-13				
Location	Closet				

Notes

dmychaluk@cm3inc.com on 1/25/2024 8:41:35 PM:
Unit nameplate and overview



1000010751.v2.jpg; Added on 1/25/2024 8:41:36 PM by dmychaluk@cm3inc.com



1000010752.v2.jpg; Added on 1/25/2024 8:41:36 PM by dmychaluk@cm3inc.com

WSHP-105 MUSICROOM WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	69.3	69.06	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	84	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	64	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	----	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:19 PM
Marked complete by dmychaluk@cm3inc.com on 1/25/2024 8:40:02 PM

WSHP-105 MUSICROOM ISSUES

ISSUE-1157

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-105 MusicRoom

Coil is dirty and compacted. : recommend cleaning of coil

Status	Open
Entered	1/25/2024 8:42:23 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



1000010749.v2.jpg; Added on 1/25/2024 8:42:23 PM by dmychaluk@cm3inc.com

WSHP-106 Instrument

Project / Nether Providence Elementary School / Water Source Heat Pumps

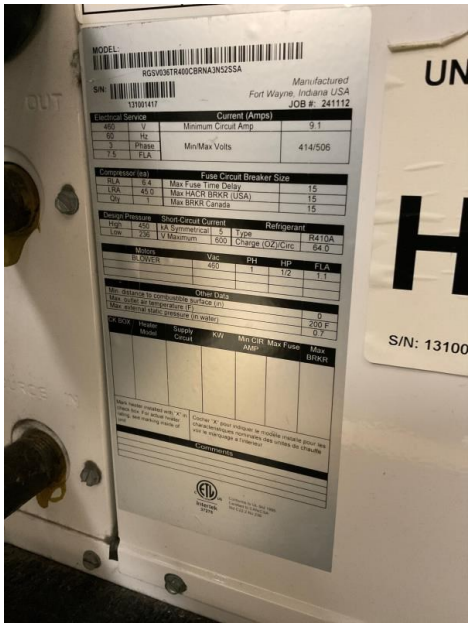
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-12				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/25/2024 8:30:20 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/25/2024 8:30:21 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/25/2024 8:30:21 PM by danhainey@cm3inc.com

WSHP-106 INSTRUMENT WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	52.3	74.0	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	67.9	68.8	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	68.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	68.0	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:34 PM
Marked complete by danhainey@cm3inc.com on 1/25/2024 8:41:47 PM

WSHP-107 Fac Dining

Project / Nether Providence Elementary School / Water Source Heat Pumps

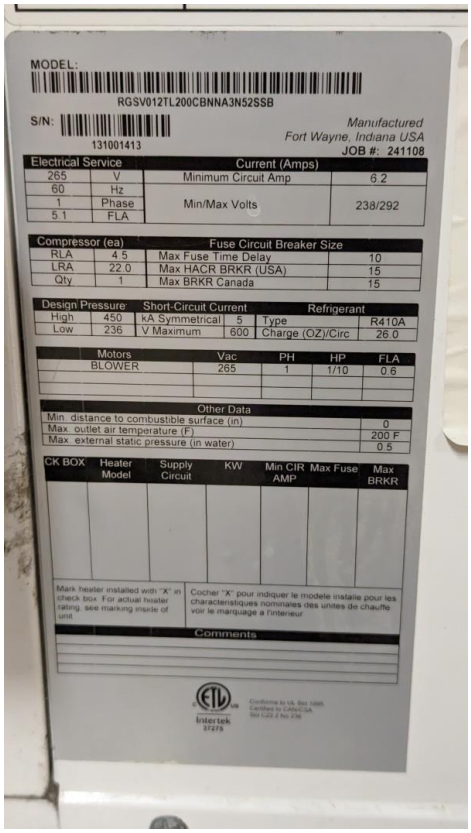
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-11				
Location	Closet				

Notes

dmychaluk@cm3inc.com on 1/25/2024 8:28:41 PM:
Unit nameplate and overview



PXL_20240126_012108871.v2.jpg; Added on 1/25/2024 8:28:41 PM by dmychaluk@cm3inc.com



PXL_20240126_012058942.v2.jpg; Added on 1/25/2024 8:28:42 PM by dmychaluk@cm3inc.com

WSHP-107 FAC DINING WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	71.8	72.06	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	84	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	64	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	----	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	bad	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:42 PM
Marked complete by dmychaluk@cm3inc.com on 1/25/2024 8:27:55 PM

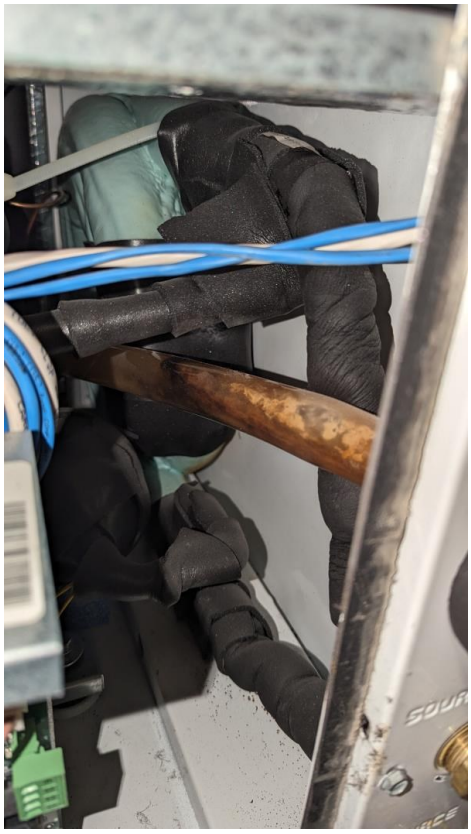
WSHP-107 FAC DINING ISSUES

ISSUE-1155

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-107 Fac Dining

Condensate like needs to be flushed and cleaned. : recommend replacement of line and flushing additional piping

Status	Open
Entered	1/25/2024 8:29:42 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



1000010746.v2.jpg; Added on 1/25/2024 8:29:42 PM by dmychaluk@cm3inc.com

ISSUE-1156

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-107 Fac Dining

Corrosion beginning to form on conditioned water loop piping and fittings. : recommend replacement of fittings.

Status	Open
Entered	1/25/2024 8:30:56 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



1000010748.v2.jpg; Added on 1/25/2024 8:30:56 PM by dmychaluk@cm3inc.com



1000010747.v2.jpg; Added on 1/25/2024 8:30:57 PM by dmychaluk@cm3inc.com

WSHP-108 3rdGrade

Project / Nether Providence Elementary School / Water Source Heat Pumps

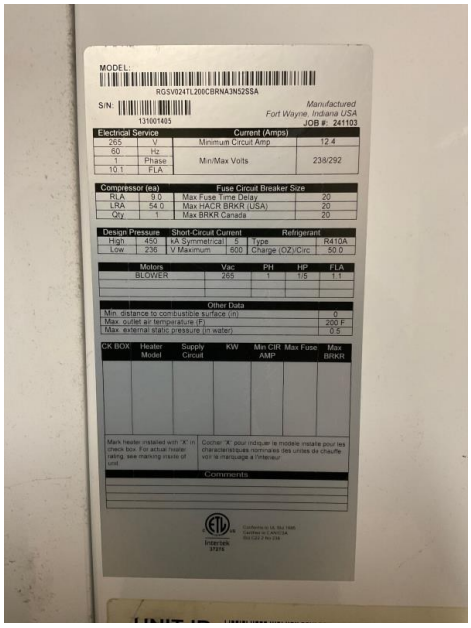
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-10				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/25/2024 8:09:28 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/25/2024 8:09:28 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/25/2024 8:09:28 PM by danhainey@cm3inc.com

WSHP-108 3RDGRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	49.9	74.0	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	71.2	69.8	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	84.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	64.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:31 PM
Marked complete by danhainey@cm3inc.com on 1/25/2024 8:17:49 PM

WSHP-108 3RDGRADE ISSUES

ISSUE-1152

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-108 3rdGrade

Condenser water isolation valve actuator is disconnected from valve body. : Repair or replace condenser water isolation valve.

Status	Open
Entered	1/25/2024 8:10:41 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



IsolationValve.v2.jpg; Added on 1/25/2024 8:10:41 PM by danhainey@cm3inc.com

ISSUE-1154

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-108 3rdGrade

Supply fan is noisy. : Troubleshoot and repair or replace per manufacturer recommendations.

Status	Open
Entered	1/25/2024 8:21:48 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



SAF.png; Added on 1/25/2024 8:21:48 PM by danhainey@cm3inc.com

WSHP-109 3rdGrade

Project / Nether Providence Elementary School / Water Source Heat Pumps

WSHP

Complete

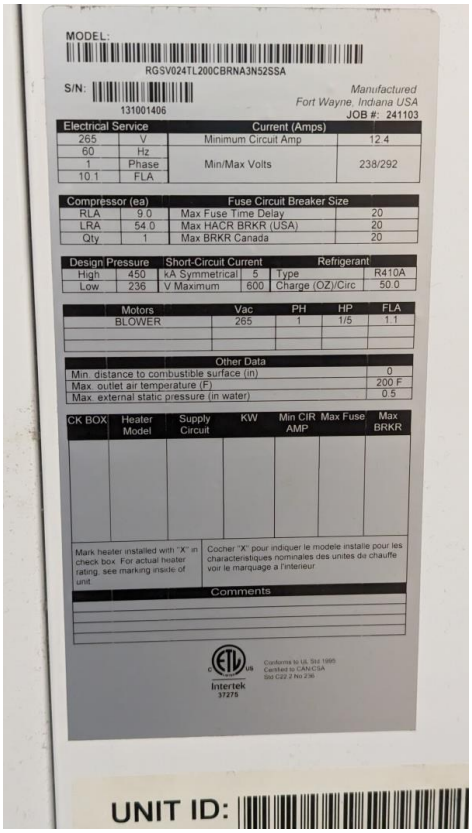
		Design	Proposed	Final	Units
Description	HP-10				
Location	Closet				

Notes

dmychaluk@cm3inc.com on 1/25/2024 8:16:18 PM:
Unit nameplate and overview



1000010738.v2.jpg; Added on 1/25/2024 8:16:18 PM by dmychaluk@cm3inc.com



1000010740.v2.jpg; Added on 1/25/2024 8:16:18 PM by dmychaluk@cm3inc.com

WSHP-109 3RDGRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	72.3	72.53	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	84	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	64	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	bad	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:32 PM
Marked complete by dmychaluk@cm3inc.com on 1/25/2024 8:13:36 PM

WSHP-109 3RDGRADE ISSUES

ISSUE-1153

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-109 3rdGrade

Coil is dirty and requires cleaning

Status	Open
Entered	1/25/2024 8:17:55 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



1000010737.v2.jpg; Added on 1/25/2024 8:17:56 PM by dmychaluk@cm3inc.com

WSHP-110 3rdGrade

Project / Nether Providence Elementary School / Water Source Heat Pumps

WSHP

Complete

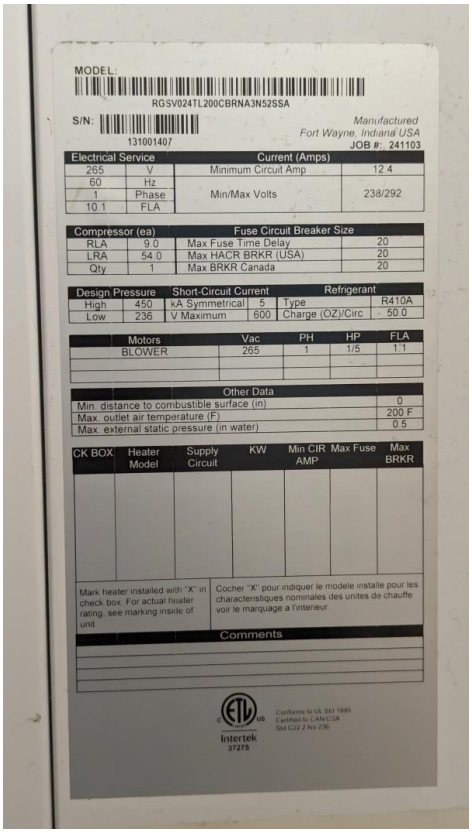
		Design	Proposed	Final	Units
Description	HP-10				
Location	Closet				

Notes

dmychaluk@cm3inc.com on 1/25/2024 7:56:04 PM:
Unit nameplate and overview



PXL_20240126_005025020.v2.jpg; Added on 1/25/2024 7:56:05 PM by dmychaluk@cm3inc.com



PXL_20240126_005036387.v2.jpg; Added on 1/25/2024 7:56:05 PM by dmychaluk@cm3inc.com

WSHP-110 3RDGRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	70.2	71.2	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	84	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	64	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	----	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	----	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:32 PM
Marked complete by dmychaluk@cm3inc.com on 1/25/2024 7:59:50 PM

WSHP-110 3RDGRADE ISSUES

ISSUE-1151

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-110 3rdGrade

Coil is dirty and requires cleaning. : recommend cleaning of the coil.

Status	Open
Entered	1/25/2024 7:56:45 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



1000010733.v2.jpg; Added on 1/25/2024 7:56:46 PM by dmychaluk@cm3inc.com

WSHP-111 3rdGrade

Project / Nether Providence Elementary School / Water Source Heat Pumps

WSHP

Complete

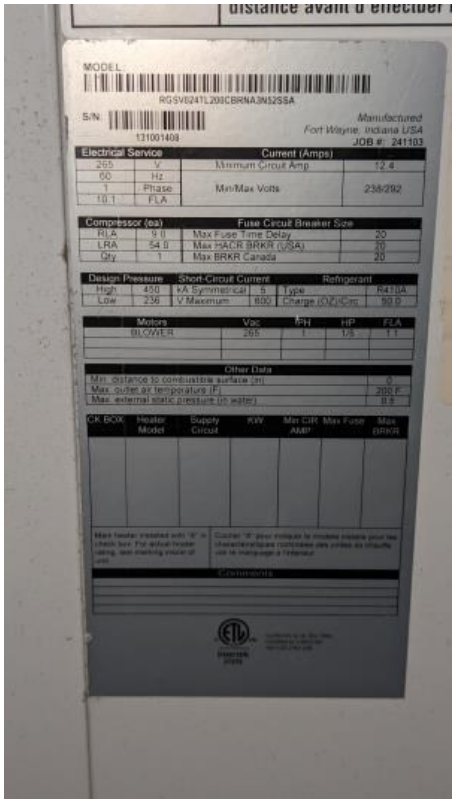
		Design	Proposed	Final	Units
Description	HP-10				
Location	Closet				

Notes

dmychaluk@cm3inc.com on 1/25/2024 7:43:48 PM:
Unit nameplate and Overview



06160976_1000010731.v2.jpg; Added on 1/25/2024 7:49:06 PM
by dmychaluk@cm3inc.com



06473467_1000010732.v2.jpg; Added on 1/25/2024 7:49:06 PM
by dmychaluk@cm3inc.com

WSHP-111 3RDGRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	69.8	71.30	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74	☐	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70	☐	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 1	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	bad	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:33 PM
Marked complete by dmychaluk@cm3inc.com on 1/25/2024 7:32:52 PM

WSHP-111 3RDGRADE ISSUES

ISSUE-1149

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-111 3rdGrade

Coil is dirty and requires cleaning. : Recommend professional cleaning of coil

Status	Open
Entered	1/25/2024 7:44:20 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



48673648_1000010729.v2.jpg; Added on 1/25/2024 7:49:48 PM
by dmychaluk@cm3inc.com

ISSUE-1150

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-111 3rdGrade

Corrosion and evidence of rust buidling up on braided lines for the glycol loop. :
Recommend replacement of line and cleaning/sealing fittings.

Status	Open
Entered	1/25/2024 7:45:48 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



33168971_1000010730.v2.jpg; Added on 1/25/2024 7:49:33 PM
by dmychaluk@cm3inc.com

WSHP-113 Kindergarten

Project / Nether Providence Elementary School / Water Source Heat Pumps

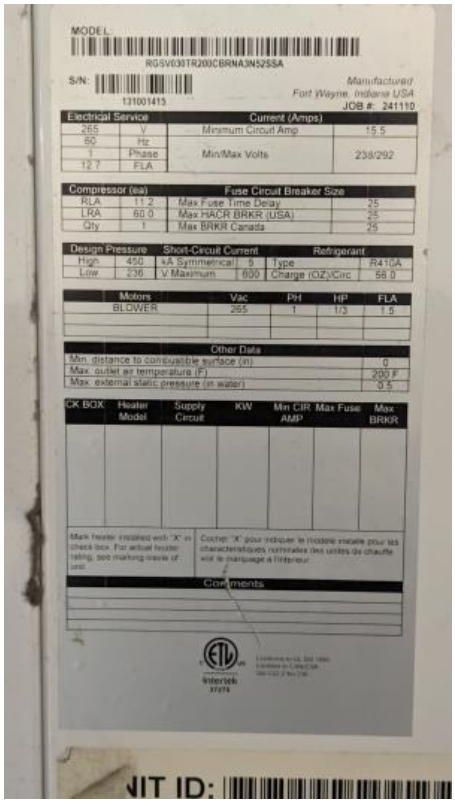
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-9				
Location	Closet				

Notes

dmychaluk@cm3inc.com on 1/25/2024 7:35:20 PM:
Unit nameplate and overview



31857219_1000010726.v2.jpg; Added on 1/25/2024 7:36:31 PM
by dmychaluk@cm3inc.com



32247875_1000010723.v2.jpg; Added on 1/25/2024 7:36:32 PM
by dmychaluk@cm3inc.com

WSHP-113 KINDERGARTEN WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	69.5	70.5	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	84	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	64	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	----	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:33 PM
Marked complete by dmychaluk@cm3inc.com on 1/25/2024 7:28:47 PM

WSHP-113 KINDERGARTEN ISSUES

ISSUE-1147

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-113 Kindergarten

Coil needs to be cleaned and is compacted with dirt..: recommend cleaning the coil.

Status	Open
Entered	1/25/2024 7:37:15 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



1000010722.v2.jpg; Added on 1/25/2024 7:37:15 PM by dmychaluk@cm3inc.com

ISSUE-1148

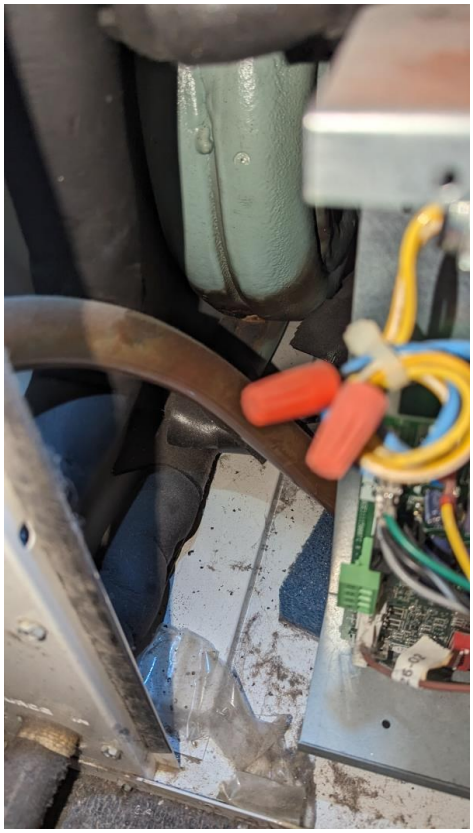
Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-113 Kindergarten

Condensate drain pan is rusting along with the coil frame. : recommend remediation and cleaning/replacing the drain line

Status	Open
Entered	1/25/2024 7:38:23 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/2/2024 12:00:00 AM



1000010720.v2.jpg; Added on 1/25/2024 7:38:23 PM by dmychaluk@cm3inc.com



1000010721.v2.jpg; Added on 1/25/2024 7:38:24 PM by dmychaluk@cm3inc.com

WSHP-114 Kindergarten

Project / Nether Providence Elementary School / Water Source Heat Pumps

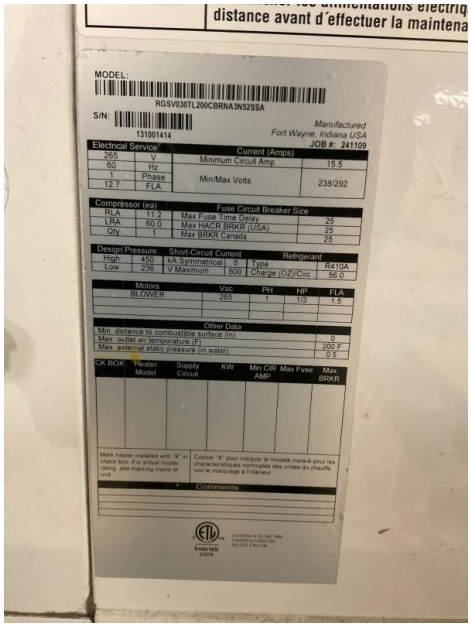
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-9				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/25/2024 7:18:03 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/25/2024 7:18:03 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/25/2024 7:18:03 PM by danhainey@cm3inc.com

WSHP-114 KINDERGARTEN WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	51.5	74	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	67.4	69.8	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	74.0	----	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	70.0	----	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	74.0	----	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	85.0	----	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	65.0	----	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:34 PM
Marked complete by danhainey@cm3inc.com on 1/25/2024 7:58:26 PM

WSHP-115 1stGrade

Project / Nether Providence Elementary School / Water Source Heat Pumps

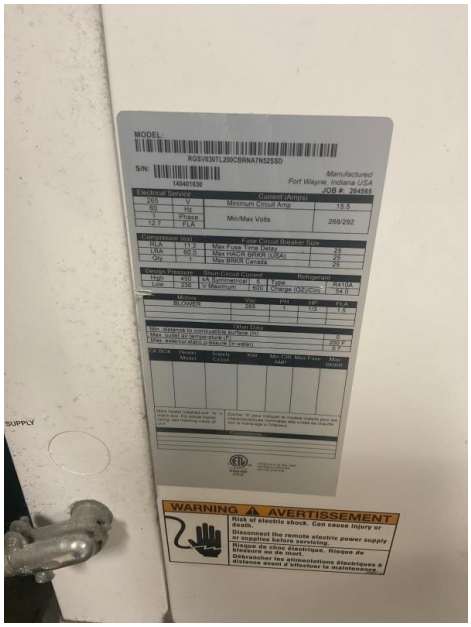
WSHP

Complete

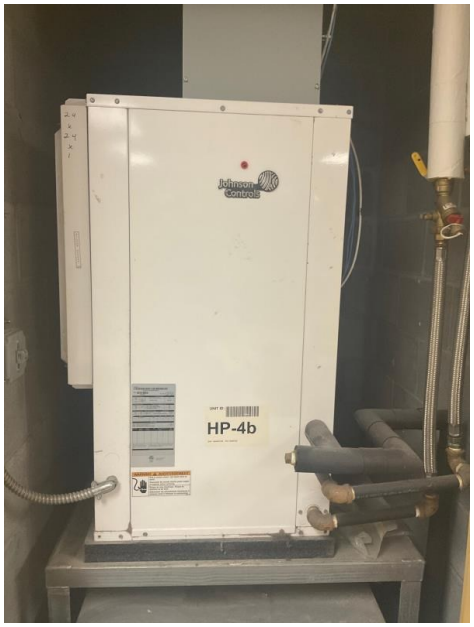
		Design	Proposed	Final	Units
Description	HP-4				
Location	Closet				

Notes

danhainey@cm3inc.com on 2/2/2024 5:56:18 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 2/2/2024 5:56:19 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 2/2/2024 5:56:19 PM by danhainey@cm3inc.com

WSHP-115 1STGRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	35.5	33.7	✔	☐	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	72.2	72.5	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	60.0	✔	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:28 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 6:06:08 PM

WSHP-116 SpecEd

Project / Nether Providence Elementary School / Water Source Heat Pumps

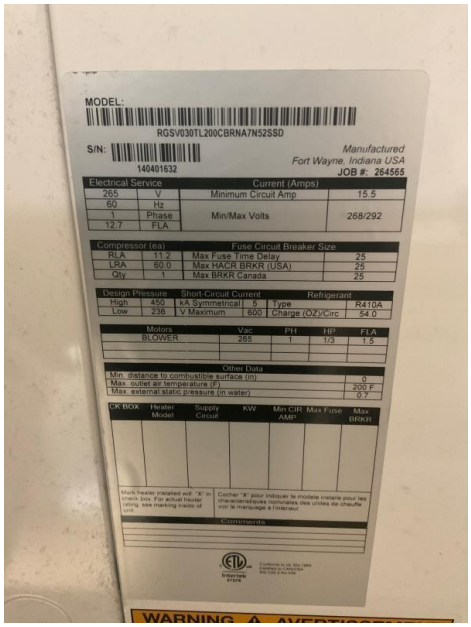
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-6				
Location	Closet				

Notes

danhainey@cm3inc.com on 2/2/2024 6:16:43 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 2/2/2024 6:16:43 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 2/2/2024 6:16:44 PM by danhainey@cm3inc.com

WSHP-116 SPECED WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	36.7	31.1	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	69.5	70.2	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	60.0	✔	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:30 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 6:28:45 PM

WSHP-116 SPECED ISSUES

ISSUE-1280

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-116 SpecEd

Space humidity sensor reads over 5 % RH too low. : Calibrate or replace space humidity sensor.

Status	Open
Entered	2/2/2024 6:26:05 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Calibration
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



Space.v2.jpg; Added on 2/2/2024 6:26:06 PM by danhainey@cm3inc.com

ISSUE-1281

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-116 SpecEd

Return air grille is loose from wall. : Repair return air grille.

Status	Open
Entered	2/2/2024 6:45:43 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



RAG.v2.jpg; Added on 2/2/2024 6:45:44 PM by danhainey@cm3inc.com

WSHP-117 SGI

Project / Nether Providence Elementary School / Water Source Heat Pumps

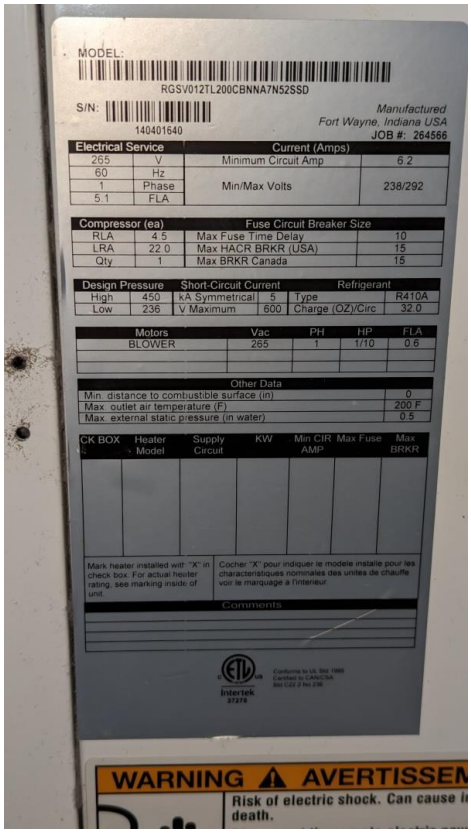
WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-8				
Location	Closet				
Location Description	Closet in front of 115				

Notes

dmychaluk@cm3inc.com on 1/24/2024 9:59:32 PM:
Unit nameplate and overview



1000010680.v2.jpg; Added on 1/24/2024 9:59:33 PM by dmychaluk@cm3inc.com



1000010679.v2.jpg; Added on 1/24/2024 9:59:33 PM by dmychaluk@cm3inc.com

WSHP-117 SGI WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	69	69.8	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	----	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:27 PM
Marked complete by dmychaluk@cm3inc.com on 1/24/2024 9:49:44 PM

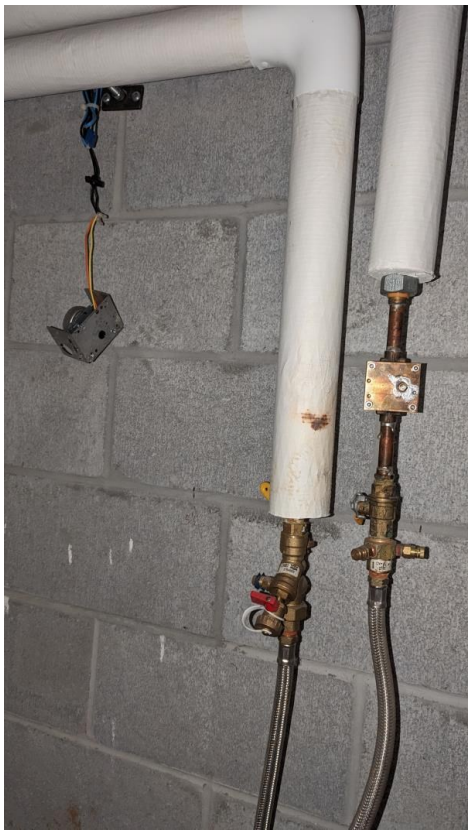
WSHP-117 SGI ISSUES

ISSUE-1139

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-117 SGI

Isolation valve actuator removed and most likely failed. : recommend replacement of valve and actuator

Status	Open
Entered	1/24/2024 10:00:25 PM
Entered By	dmychaluk@cm3inc.com
Priority	Energy
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



1000010677.v2.jpg; Added on 1/24/2024 10:00:25 PM by dmychaluk@cm3inc.com

ISSUE-1140

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-117 SGI

Coil is dirty and requires cleaning. : recommend professional cleaning of the coil

Status	Open
Entered	1/24/2024 10:01:29 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



1000010678.v2.jpg; Added on 1/24/2024 10:01:29 PM by dmychaluk@cm3inc.com

WSHP-118 Read

Project / Nether Providence Elementary School / Water Source Heat Pumps

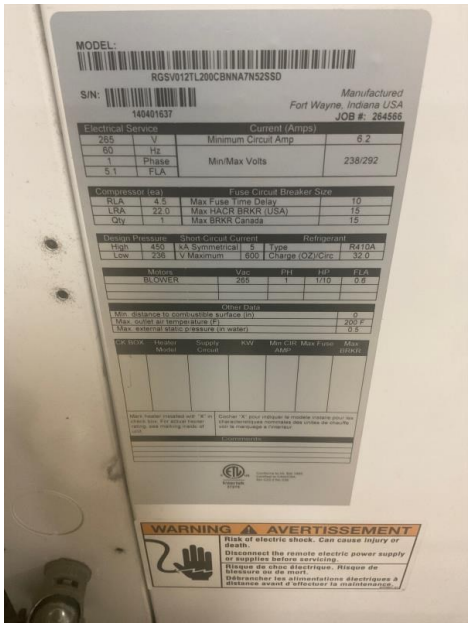
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-7				
Location	Closet				

Notes

danhainey@cm3inc.com on 2/2/2024 4:15:42 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 2/2/2024 4:15:43 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 2/2/2024 4:15:43 PM by danhainey@cm3inc.com

WSHP-118 READ WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	35.5	31.2	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	70.7	71.2	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	60.0	✔	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:29 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 4:37:27 PM

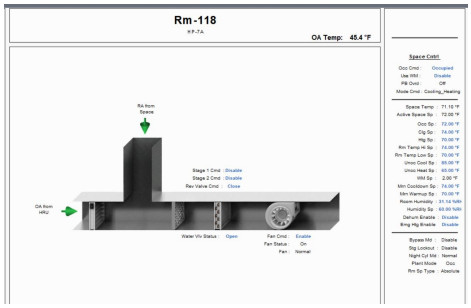
WSHP-118 READ ISSUES

ISSUE-1269

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-118 Read

Unit is not equipped for dehumidification. : Remove all references from graphic and points.

Status	Open
Entered	2/2/2024 4:18:07 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



RM118.png; Added on 2/2/2024 4:18:08 PM by danhainey@cm3inc.com

ISSUE-1270

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-118 Read

Electrical flex conduit has separated from connector. : Repair electrical flexible conduit.

Status	Open
Entered	2/2/2024 4:20:12 PM
Entered By	danhainey@cm3inc.com
Priority	Safety
Category	Electrical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



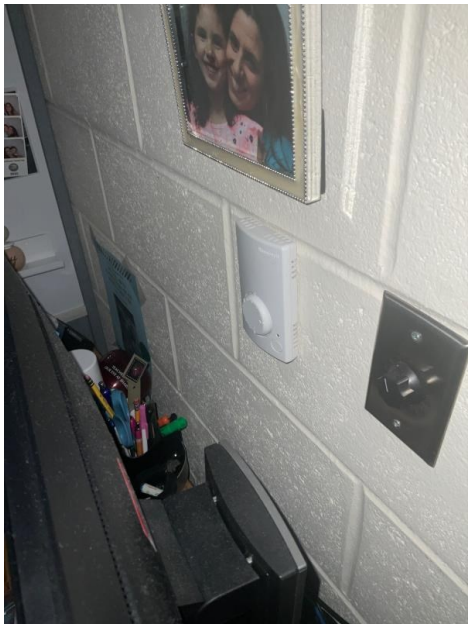
Flex.v2.jpg; Added on 2/2/2024 4:20:12 PM by danhainey@cm3inc.com

ISSUE-1271

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-118 Read

Space humidity sensor reads approximately 4 % RH too low. : Calibrate or replace space humidity sensor.

Status	Open
Entered	2/2/2024 4:35:36 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Calibration
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



Sensor.v2.jpg; Added on 2/2/2024 4:35:37 PM by danhainey@cm3inc.com

WSHP-119 Speech

Project / Nether Providence Elementary School / Water Source Heat Pumps

WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-7				
Location	Closet				

Notes

danhainey@cm3inc.com on 2/2/2024 4:46:28 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 2/2/2024 4:46:28 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 2/2/2024 4:46:28 PM by danhainey@cm3inc.com

WSHP-119 SPEECH WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	34.9	31.7	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	71.5	71.9	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	60.0	✔	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:19 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 5:11:59 PM

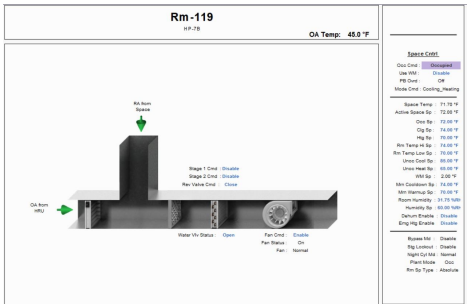
WSHP-119 SPEECH ISSUES

ISSUE-1272

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-119 Speech

Unit is not equipped for dehumidification. : Remove all references from graphic and points.

Status	Open
Entered	2/2/2024 4:48:30 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



Rm119.png; Added on 2/2/2024 4:48:31 PM by danhainey@cm3inc.com

ISSUE-1273

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-119 Speech

Condenser water isolation valve actuator is removed from valve body. : Replace condenser water isolation valve.

Status	Open
Entered	2/2/2024 4:50:07 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



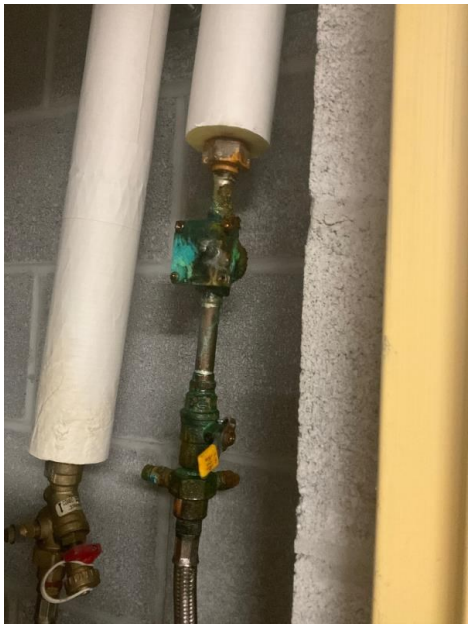
IsolationValve.v2.jpg; Added on 2/2/2024 4:50:08 PM by danhainey@cm3inc.com

ISSUE-1274

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-119 Speech

Condenser water pipe is leaking. : Repair condenser water piping.

Status	Open
Entered	2/2/2024 4:51:15 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



Leak.v2.jpg; Added on 2/2/2024 4:51:15 PM by danhainey@cm3inc.com

ISSUE-1275

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-119 Speech

Insulation on the back of unit access panel is peeling off. : Repair unit cabinet insulation.

Status	Open
Entered	2/2/2024 4:53:22 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



Insulation.v2.jpg; Added on 2/2/2024 4:53:22 PM by danhainey@cm3inc.com

ISSUE-1276

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-119 Speech

Space humidity sensor reads greater than 3 % RH too low. : Calibrate or replace space humidity sensor.

Status	Open
Entered	2/2/2024 5:00:29 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Calibration
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



SpaceHumid.v2.jpg; Added on 2/2/2024 5:00:30 PM by danhainey@cm3inc.com

WSHP-120 OT

Project / Nether Providence Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-7				
Location	Closet				

WSHP-120 OT WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	34.7	29.8	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	72.2	71.9	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	60.0	✔	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Dehumidifcation Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 1	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Isolation Valve	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Reversing Valve	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Occupancy Bypass	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

In Progress
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:29 PM
Last edit by danhainey@cm3inc.com on 2/2/2024 5:18:11 PM

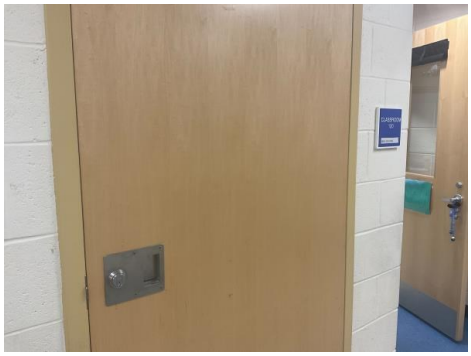
WSHP-120 OT ISSUES

ISSUE-1277

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-120 OT

Unable to access unit. Enclosure lock is jammed. : Repair lock.

Status	Open
Entered	2/2/2024 5:14:56 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



Lock.v2.jpg; Added on 2/2/2024 5:14:56 PM by danhainey@cm3inc.com

ISSUE-1278

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-120 OT

Space humidity sensor reads over 4 % RH too low. : Calibrate or replace humidity sensor.

Status	Open
Entered	2/2/2024 5:21:34 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Calibration
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



SpaceHumid.v2.jpg; Added on 2/2/2024 5:21:34 PM by danhainey@cm3inc.com

WSHP-121 1stGrade

Project / Nether Providence Elementary School / Water Source Heat Pumps

WSHP

Complete

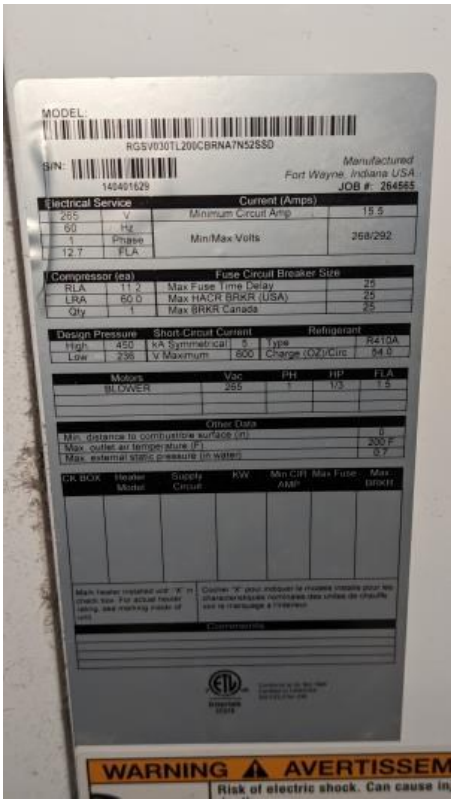
		Design	Proposed	Final	Units
Description	HP-4				
Location	Closet				

Notes

dmychaluk@cm3inc.com on 1/24/2024 9:35:01 PM:
Unit nameplate and Overview



29748112_1000010667.v2.jpg; Added on 1/24/2024 9:56:29 PM
by dmychaluk@cm3inc.com



30107491_1000010668.v2.jpg; Added on 1/24/2024 9:56:30 PM
by dmychaluk@cm3inc.com

WSHP-121 1STGRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	68.9	69.8	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	60	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	bad	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:27 PM
Marked complete by dmychaluk@cm3inc.com on 1/24/2024 9:41:27 PM

WSHP-121 1STGRADE ISSUES

ISSUE-1134

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-121 1stGrade

Master key does not work for this mechanical closet. : recommend rekeying the door.

Status	Open
Entered	1/24/2024 9:27:16 PM
Entered By	dmychaluk@cm3inc.com
Priority	Structural
Category	Mechanical, Access
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



PXL_20240125_022349702.v2.jpg; Added on 1/24/2024 9:27:17 PM by dmychaluk@cm3inc.com

ISSUE-1135

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-121 1stGrade

Coil is dirty and requires cleaning, filter is dirty adn requires replacement. : Reocmmend maintenance of unit.

Status	Open
Entered	1/24/2024 9:36:19 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



36607810_1000010665.v2.jpg; Added on 1/24/2024 9:55:36 PM
by dmychaluk@cm3inc.com

ISSUE-1136

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-121 1stGrade

Condensate pan is rusted and has old debris in the pan. the condensate line appears to be shaped incorrectly and needs to be cleaned and properly ran through the unit. : recommend correction of condensate issues.

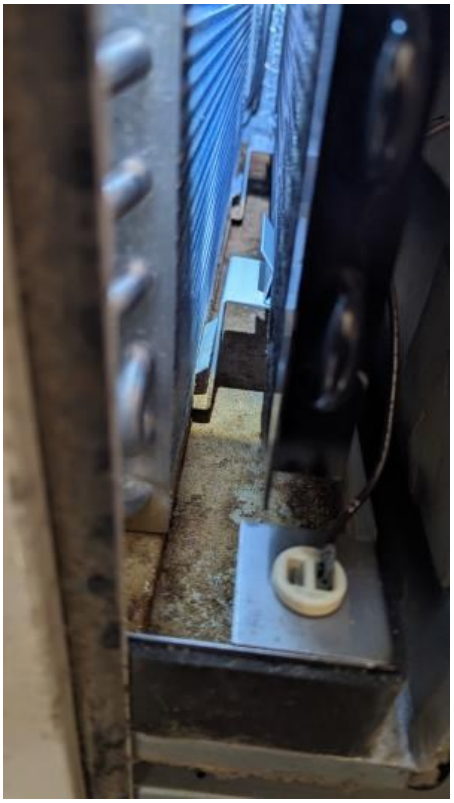
Status	Open
Entered	1/24/2024 9:37:35 PM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



04749744_1000010673.v2.jpg; Added on 1/24/2024 9:56:04 PM by dmychaluk@cm3inc.com



05109109_1000010669.v2.jpg; Added on 1/24/2024 9:56:05 PM by dmychaluk@cm3inc.com



05437251_1000010674.v2.jpg; Added on 1/24/2024 9:56:05 PM by dmychaluk@cm3inc.com

WSHP-122 Learning

Project / Nether Providence Elementary School / Water Source Heat Pumps

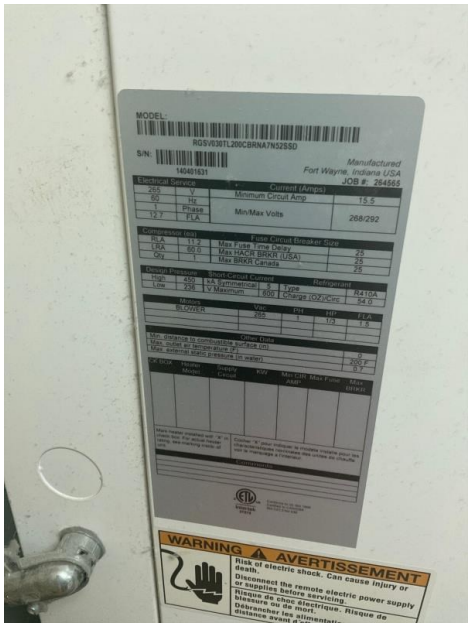
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-6				
Location	Closet				

Notes

danhainey@cm3inc.com on 2/2/2024 5:32:00 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 2/2/2024 5:32:01 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 2/2/2024 5:32:01 PM by danhainey@cm3inc.com

WSHP-122 LEARNING WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	36.2	35.8	✔	☐	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	70.0	70.4	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	60.0	✔	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:30 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 5:40:40 PM

WSHP-122 LEARNING ISSUES

ISSUE-1279

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-122 Learning

Incorrect filter is installed and filter door is unattached. : Install filter of proper specifications and attach filter door.

Status	Open
Entered	2/2/2024 5:33:25 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



Filter.v2.jpg; Added on 2/2/2024 5:33:26 PM by danhainey@cm3inc.com

WSHP-123 1stGrade

Project / Nether Providence Elementary School / Water Source Heat Pumps

WSHP

Complete

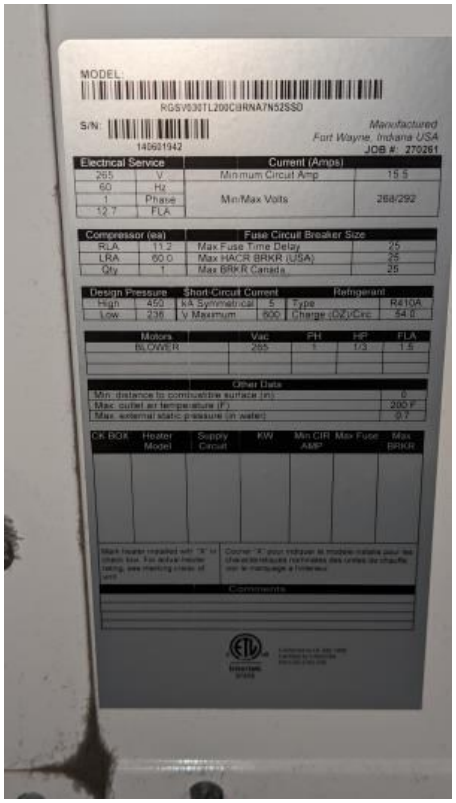
		Design	Proposed	Final	Units
Description	HP-4				
Location	1st Grade 123				
Location Description	Side closet				

Notes

dmychaluk@cm3inc.com on 1/24/2024 9:06:01 PM:
Unit nameplate and overview



17391195_1000010662.v2.jpg; Added on 1/24/2024 9:06:17 PM
by dmychaluk@cm3inc.com



17750596_1000010663.v2.jpg; Added on 1/24/2024 9:06:17 PM
by dmychaluk@cm3inc.com

WSHP-123 1STGRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	67.9	68.25	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	----	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	----	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:26 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 2:56:08 PM

WSHP-124 1stGrade

Project / Nether Providence Elementary School / Water Source Heat Pumps

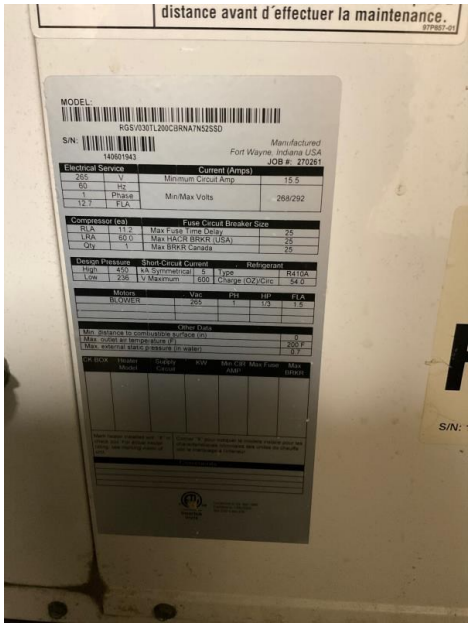
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-5				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/24/2024 10:01:59 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/24/2024 10:02:00 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/24/2024 10:02:00 PM by danhainey@cm3inc.com

WSHP-124 1STGRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	74.0	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	69.3	68.8	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	84.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	64.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	----	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:26 PM
Marked complete by danhainey@cm3inc.com on 1/25/2024 4:11:23 PM

WSHP-125 SpecEd

Project / Nether Providence Elementary School / Water Source Heat Pumps

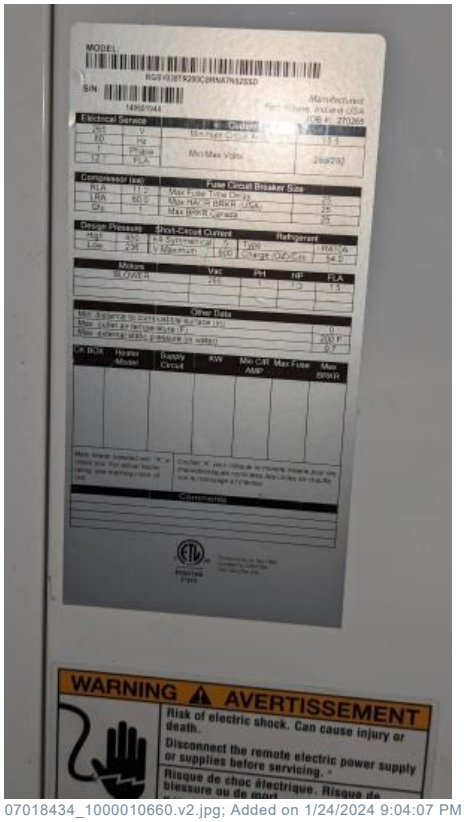
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-3				
Location	1st Grade 123				
Location Description	rear closet				

Notes

dmychaluk@cm3inc.com on 1/24/2024 9:02:10 PM:
Unit Nameplate and overview



07018434_1000010660.v2.jpg; Added on 1/24/2024 9:04:07 PM
by dmychaluk@cm3inc.com



07426642_1000010659.v2.jpg; Added on 1/24/2024 9:04:07 PM
by dmychaluk@cm3inc.com

WSHP-125 SPECED WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	Unit offline and has no power, may be due to a remodel
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Supply Fan Status	DI	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Supply Fan Enable	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Dehumidifcation Enable	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Reversing Valve	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Occupancy Bypass	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:25 PM
Marked complete by dmychaluk@cm3inc.com on 1/24/2024 9:00:28 PM

WSHP-125 SPECED ISSUES

ISSUE-1132

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-125 SpecEd

Unit offline and has no power after pressing the occupancy override button on the thermostat. After power cycling the the unit goes back online. : Recommend replacement of the thermostat and troubleshooting wiring issues

Status	Open
Entered	1/24/2024 9:01:51 PM
Entered By	dmychaluk@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



50099664_1000010658.v2.jpg; Added on 1/24/2024 9:03:50 PM
by dmychaluk@cm3inc.com

WSHP-126 2ndGrade

Project / Nether Providence Elementary School / Water Source Heat Pumps

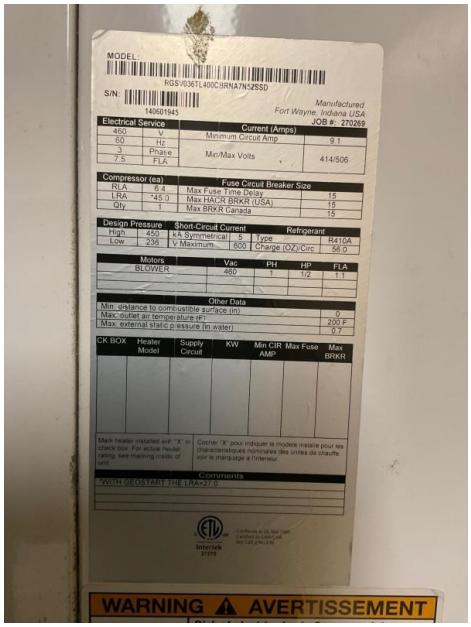
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-2				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/24/2024 9:10:20 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/24/2024 9:10:20 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/24/2024 9:10:21 PM by danhainey@cm3inc.com

WSHP-126 2NDGRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	74.0	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	68.5	69.4	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:25 PM
Marked complete by danhainey@cm3inc.com on 1/24/2024 9:50:52 PM

WSHP-126 2NDGRADE ISSUES

ISSUE-1133

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-126 2ndGrade

Condenser water isolation valve actuator is detached from valve body. : Replace condenser water isolation valve.

Status	Open
Entered	1/24/2024 9:11:50 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



IsolationValve.v2.jpg; Added on 1/24/2024 9:11:50 PM by danhainey@cm3inc.com

WSHP-127 2ndGrade

Project / Nether Providence Elementary School / Water Source Heat Pumps

WSHP

Complete

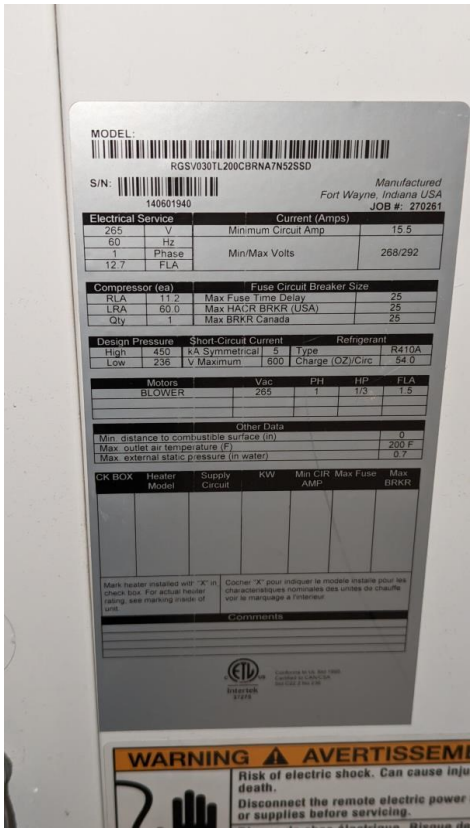
		Design	Proposed	Final	Units
Description	HP-1				
Location	Closet				

Notes

dmychaluk@cm3inc.com on 1/24/2024 7:43:35 PM:
Unit nameplate and overview



1000010652.v2.jpg; Added on 1/24/2024 7:43:35 PM by dmychaluk@cm3inc.com



1000010653.v2.jpg; Added on 1/24/2024 7:43:35 PM by dmychaluk@cm3inc.com

WSHP-127 2NDGRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	69.1	71.12	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	70	☐	☐	✔	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	ok	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	----	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	ok	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:24 PM
Marked complete by dmychaluk@cm3inc.com on 1/24/2024 8:52:51 PM

WSHP-128 2ndGrade

Project / Nether Providence Elementary School / Water Source Heat Pumps

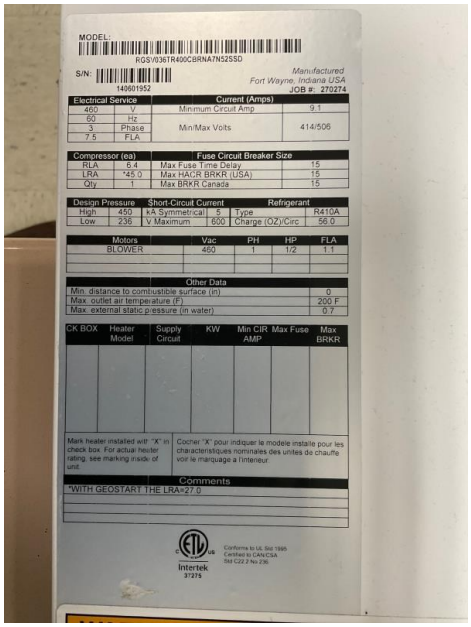
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-2				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/24/2024 8:35:45 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/24/2024 8:35:46 PM by danhainey@cm3inc.com


Overview.v2.jpg; Added on 1/24/2024 8:35:46 PM by danhainey@cm3inc.com

WSHP-128 2NDGRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	42.8	74.0	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	66.4	67.9	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	84.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	64.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:23 PM
Marked complete by danhainey@cm3inc.com on 1/24/2024 8:54:33 PM

WSHP-128 2NDGRADE ISSUES

ISSUE-1130

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-128 2ndGrade

Condenser water isolation valve is leaking. : Repair or replace condenser water isolation valve.

Status	Open
Entered	1/24/2024 8:32:38 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/1/2024 12:00:00 AM



IsolationValve.v2.jpg; Added on 1/24/2024 8:32:38 PM by danhainey@cm3inc.com

WSHP-129 2ndGrade

Project / Nether Providence Elementary School / Water Source Heat Pumps

WSHP

Complete

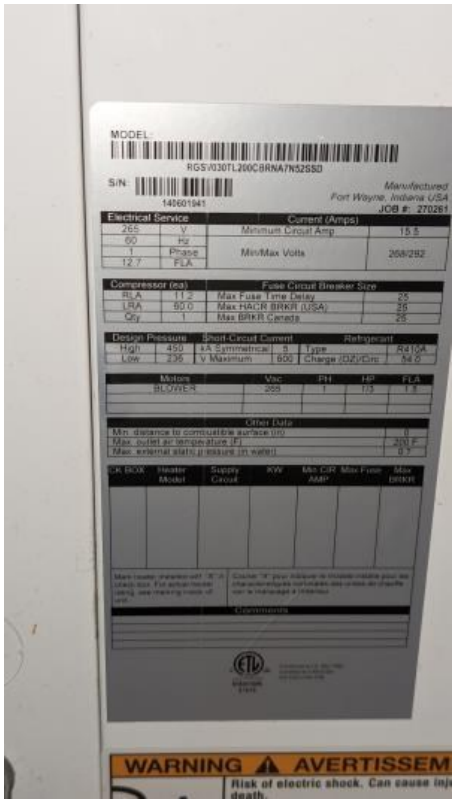
		Design	Proposed	Final	Units
Description	HP-1				
Location	Closet				

Notes

dmychaluk@cm3inc.com on 1/24/2024 7:54:39 PM:
Unit nameplate and overview



09257686_1000010656.v2.jpg; Added on 1/24/2024 7:56:09 PM
by dmychaluk@cm3inc.com



09585819_1000010657.v2.jpg; Added on 1/24/2024 7:56:09 PM
by dmychaluk@cm3inc.com

WSHP-129 2NDGRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	66.5	68.10	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	70	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	OK	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	Ok	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	OK	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	Bad	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	OK	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	OK	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	Ok	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:18 PM
Marked complete by dmychaluk@cm3inc.com on 1/24/2024 8:17:38 PM

WSHP-201 5thGrade

Project / Nether Providence Elementary School / Water Source Heat Pumps

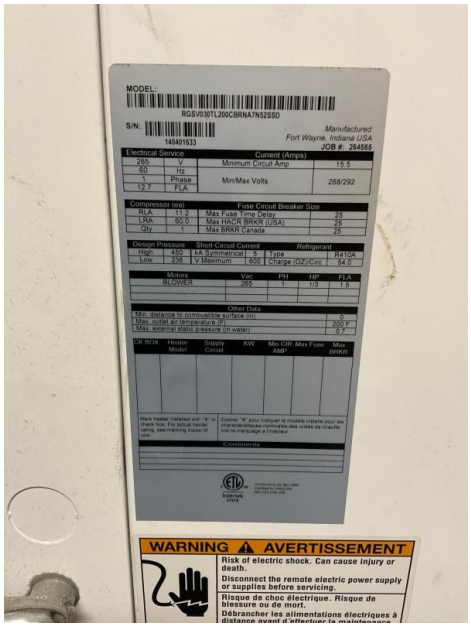
WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-20				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/29/2024 9:51:46 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/29/2024 9:51:46 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/29/2024 9:51:46 PM by danhainey@cm3inc.com

WSHP-201 5THGRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	☐	Communication loss
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Dehumidifcation Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 1	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Isolation Valve	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Reversing Valve	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupancy Bypass	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

In Progress
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:20 PM
Last edit by danhainey@cm3inc.com on 1/29/2024 9:52:45 PM

WSHP-202 5thGrade

Project / Nether Providence Elementary School / Water Source Heat Pumps

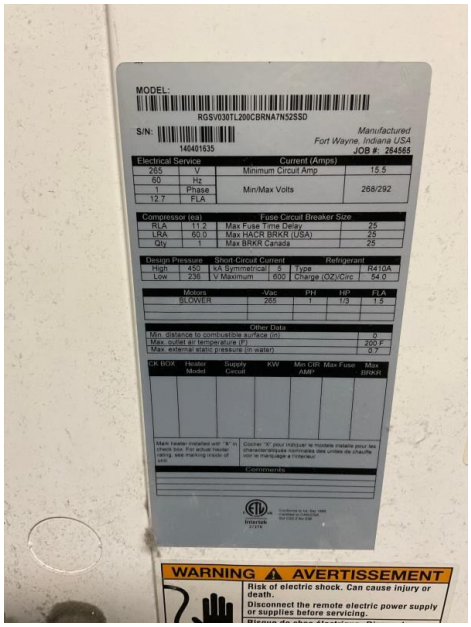
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-21				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/29/2024 9:39:02 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/29/2024 9:39:03 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/29/2024 9:39:03 PM by danhainey@cm3inc.com

WSHP-202 5THGRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	34.4	74.0	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	69.5	68.8	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:20 PM
Marked complete by danhainey@cm3inc.com on 1/29/2024 9:44:30 PM

WSHP-202 5THGRADE ISSUES

ISSUE-1189

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-202 5thGrade

Filter access door is missing. : Install a new filter access door.

Status	Open
Entered	1/29/2024 9:40:08 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



Filter.v2.jpg; Added on 1/29/2024 9:40:08 PM by danhainey@cm3inc.com

WSHP-203 SGI

Project / Nether Providence Elementary School / Water Source Heat Pumps

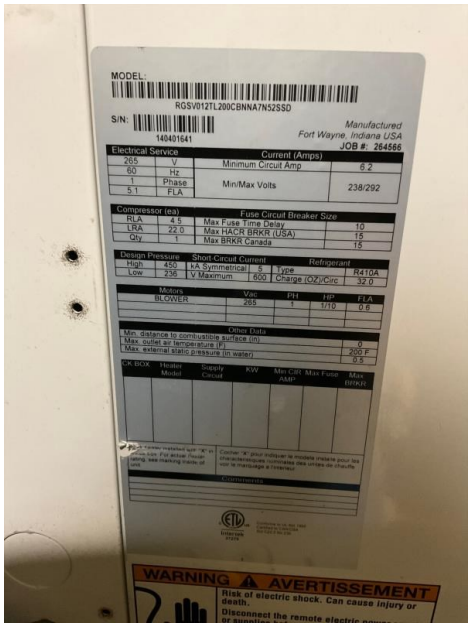
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-22				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/29/2024 8:46:58 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/29/2024 8:46:58 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/29/2024 8:46:59 PM by danhainey@cm3inc.com

WSHP-203 SGI WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	33.3	74.0	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	70.4	71.0	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:21 PM
Marked complete by danhainey@cm3inc.com on 1/29/2024 8:59:54 PM

WSHP-203 SGI ISSUES

ISSUE-1186

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-203 SGI

Electrical flex conduit connector has screw removed. : Repair flex conduit connector.

Status	Open
Entered	1/29/2024 8:48:28 PM
Entered By	danhainey@cm3inc.com
Priority	Safety
Category	Electrical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



Fitting.v2.jpg; Added on 1/29/2024 8:48:28 PM by danhainey@cm3inc.com

ISSUE-1187

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-203 SGI

Unit is not equipped for dehumidification. : Remove all references from graphic and points.

Status	Open
Entered	1/29/2024 8:51:36 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



50311349_203.png; Added on 1/29/2024 9:18:50 PM by danhainey@cm3inc.com

WSHP-204 Reading

Project / Nether Providence Elementary School / Water Source Heat Pumps

WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-22				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/29/2024 9:10:01 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/29/2024 9:10:01 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/29/2024 9:10:01 PM by danhainey@cm3inc.com

WSHP-204 READING WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	33.6	74.0	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	70.1	70.2	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:22 PM
Marked complete by danhainey@cm3inc.com on 1/29/2024 9:27:20 PM

WSHP-204 READING ISSUES

ISSUE-1188

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-204 Reading

Unit is not equipped for dehumidification. : Remove all references from graphic and points.

Status	Open
Entered	1/29/2024 9:35:22 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



204.png; Added on 1/29/2024 9:35:22 PM by danhainey@cm3inc.com

WSHP-205 SGI FacRm

Project / Nether Providence Elementary School / Water Source Heat Pumps

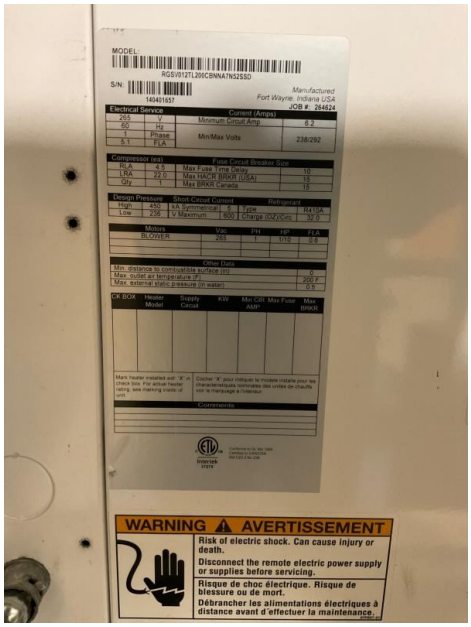
WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-22				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/29/2024 8:19:53 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/29/2024 8:19:53 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/29/2024 8:19:53 PM by danhainey@cm3inc.com

WSHP-205 SGI FACRM WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	☐	Check integration
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Dehumidifcation Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 1	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Isolation Valve	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Reversing Valve	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupancy Bypass	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

In Progress

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:23 PM
Last edit by danhainey@cm3inc.com on 1/29/2024 8:20:45 PM

WSHP-205 SGI FACRM ISSUES

ISSUE-1185

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-205 SGI FacRm

Unit in room 205 has no response to commands on graphic. Graphic appears to be integrated to the unit in room 206 across the hall. : Review and correct integration.

Status	Open
Entered	1/29/2024 8:26:47 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



206.v2.jpg; Added on 1/29/2024 8:26:48 PM by danhainey@cm3inc.com

WSHP-206 SGI

Project / Nether Providence Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-22				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/29/2024 8:07:29 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/29/2024 8:07:29 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/29/2024 8:07:30 PM by danhainey@cm3inc.com

WSHP-206 SGI WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	☐	Communication loss
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Dehumidifcation Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 1	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Isolation Valve	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Reversing Valve	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupancy Bypass	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

In Progress
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:22 PM
Last edit by danhainey@cm3inc.com on 1/29/2024 8:04:25 PM

WSHP-207 5th Grade

Project / Nether Providence Elementary School / Water Source Heat Pumps

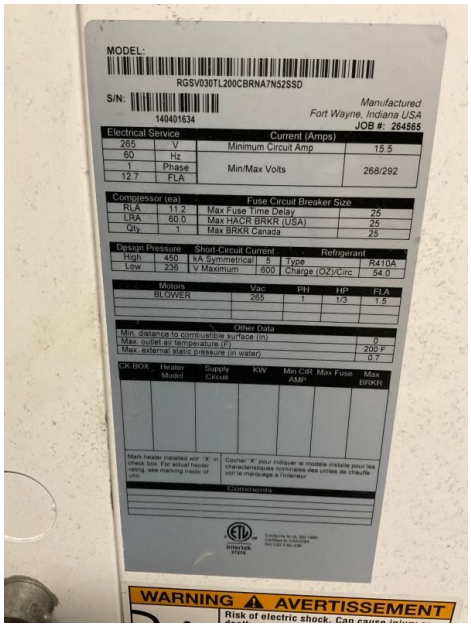
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-20				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/29/2024 7:45:05 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/29/2024 7:45:05 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/29/2024 7:45:05 PM by danhainey@cm3inc.com

WSHP-207 5TH GRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	33.3	74.0	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	69.3	69.7	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:37 PM
Marked complete by danhainey@cm3inc.com on 1/29/2024 7:50:01 PM

WSHP-208 5th Grade

Project / Nether Providence Elementary School / Water Source Heat Pumps

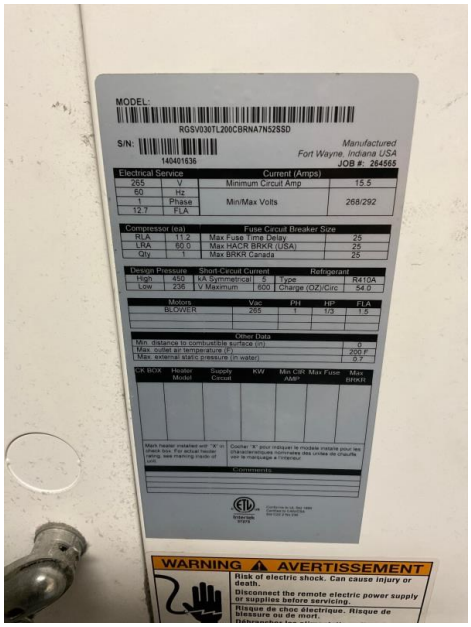
WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-21				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/29/2024 7:08:25 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/29/2024 7:08:25 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/29/2024 7:08:25 PM by danhainey@cm3inc.com

WSHP-208 5TH GRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	☐	Communication loss
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Dehumidifcation Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 1	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Isolation Valve	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Reversing Valve	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupancy Bypass	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

In Progress
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:37 PM
Last edit by danhainey@cm3inc.com on 1/29/2024 7:07:50 PM

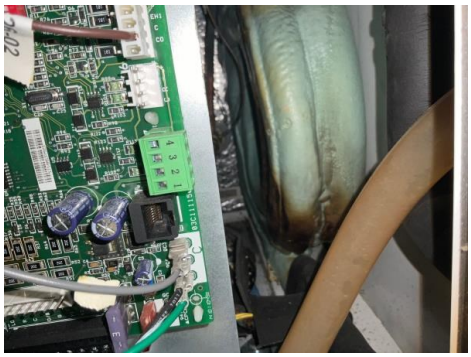
WSHP-208 5TH GRADE ISSUES

ISSUE-1181

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-208 5th Grade

Condenser coil shows a dark brown discoloration in lower portion. : Check with manufacturer for a solution or continue to monitor.

Status	Open
Entered	1/29/2024 7:12:46 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



Leak.v2.jpg; Added on 1/29/2024 7:12:46 PM by danhainey@cm3inc.com

ISSUE-1182

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-208 5th Grade

Compressor compartment insulation inside unit sagging. : Repair insulation.

Status	Open
Entered	1/29/2024 7:14:41 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/6/2024 12:00:00 AM



Insulation.v2.jpg; Added on 1/29/2024 7:14:41 PM by danhainey@cm3inc.com

WSHP-209 Spec Ed

Project / Nether Providence Elementary School / Water Source Heat Pumps

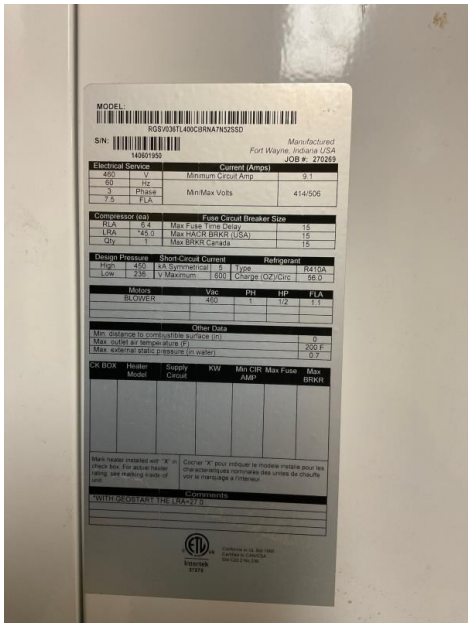
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-18				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/29/2024 6:25:59 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/29/2024 6:26:00 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/29/2024 6:26:00 PM by danhainey@cm3inc.com

WSHP-209 SPEC ED WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	36.0	74.0	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	68.9	67.7	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:38 PM
Marked complete by danhainey@cm3inc.com on 1/29/2024 6:35:25 PM

WSHP-210 Gifted Class

Project / Nether Providence Elementary School / Water Source Heat Pumps

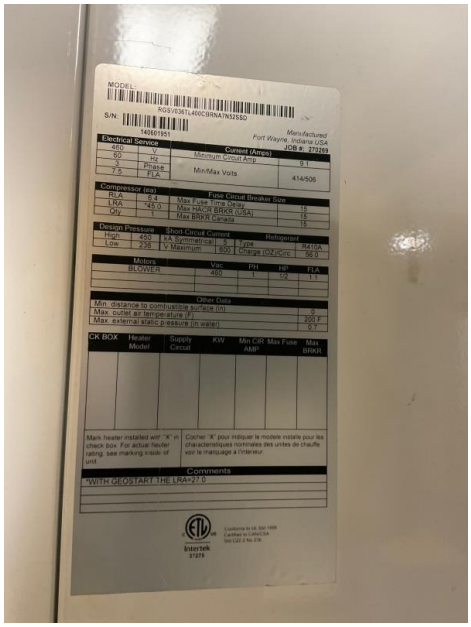
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-19				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/29/2024 6:42:49 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/29/2024 6:42:49 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/29/2024 6:42:49 PM by danhainey@cm3inc.com

WSHP-210 GIFTED CLASS WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	36.8	74.0	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	69.3	68.8	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:39 PM
Marked complete by danhainey@cm3inc.com on 1/29/2024 6:48:10 PM

WSHP-211 Spec Ed

Project / Nether Providence Elementary School / Water Source Heat Pumps

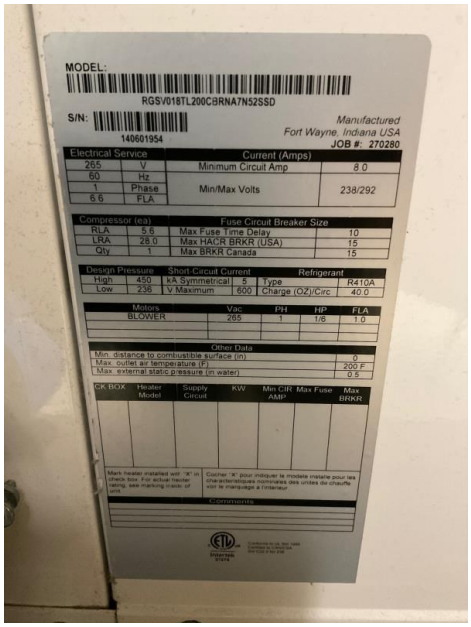
WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-16				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/29/2024 6:17:52 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/29/2024 6:17:52 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/29/2024 6:17:52 PM by danhainey@cm3inc.com

WSHP-211 SPEC ED WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	☐	Not communicating
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Dehumidifcation Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 1	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Isolation Valve	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Reversing Valve	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupancy Bypass	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

In Progress

Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:39 PM
Last edit by danhainey@cm3inc.com on 1/29/2024 6:15:57 PM

WSHP-211 SPEC ED ISSUES

ISSUE-1180

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-211 Spec Ed

Insulation missing from condensate piping. : Repair condensate piping insulation.

Status	Open
Entered	1/29/2024 6:25:04 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/5/2024 12:00:00 AM



Condensate.v2.jpg; Added on 1/29/2024 6:25:04 PM by danhainey@cm3inc.com

WSHP-212 Spec Ed

Project / Nether Providence Elementary School / Water Source Heat Pumps

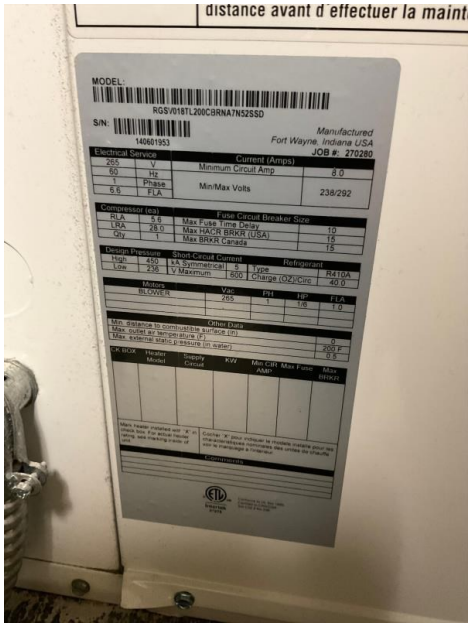
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-16				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/29/2024 5:57:20 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/29/2024 5:57:20 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/29/2024 5:57:20 PM by danhainey@cm3inc.com

WSHP-212 SPEC ED WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	----	----	☐	☐	☐	Not communicating
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Supply Fan Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Dehumidifcation Enable	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 1	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Isolation Valve	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Reversing Valve	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupancy Bypass	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:40 PM
Marked complete by dmychaluk@cm3inc.com on 2/14/2024 9:54:16 AM

WSHP-213 4th Grade

Project / Nether Providence Elementary School / Water Source Heat Pumps

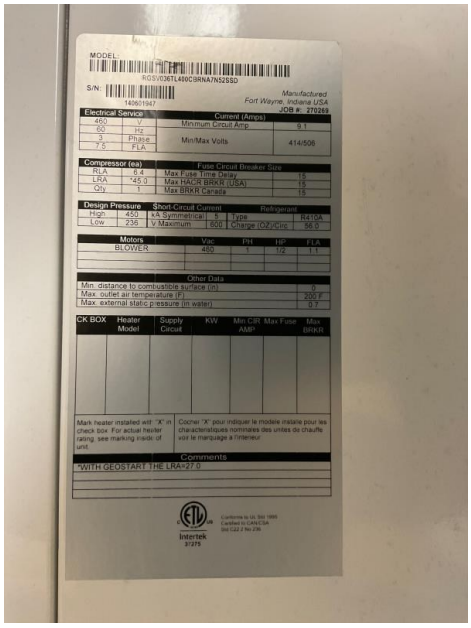
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-14				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/29/2024 5:24:19 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/29/2024 5:24:19 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/29/2024 5:24:19 PM by danhainey@cm3inc.com

WSHP-213 4TH GRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	36.2	74.0	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	69.1	69.7	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	84.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	64.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	----	----	----	----	----	----	----	☐	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	☐	✔	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	☐	✔	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	☐	✔	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:40 PM
Marked complete by danhainey@cm3inc.com on 1/29/2024 5:40:00 PM

WSHP-213 4TH GRADE ISSUES

ISSUE-1177

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-213 4th Grade

Electrical flex conduit has detached from connector. : Repair conduit.

Status	Open
Entered	1/29/2024 5:26:28 PM
Entered By	danhainey@cm3inc.com
Priority	Safety
Category	Electrical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/5/2024 12:00:00 AM



Flex.v2.jpg; Added on 1/29/2024 5:26:28 PM by danhainey@cm3inc.com

WSHP-214 4th Grade

Project / Nether Providence Elementary School / Water Source Heat Pumps

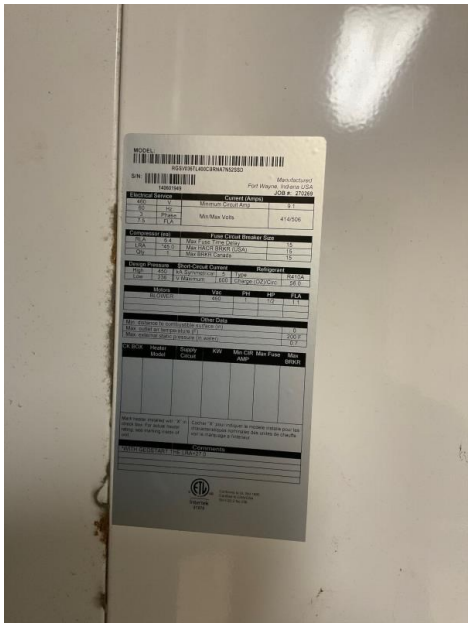
WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-15				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/29/2024 5:04:45 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/29/2024 5:04:45 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/29/2024 5:04:45 PM by danhainey@cm3inc.com

WSHP-214 4TH GRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	34.4	74.0	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	70.7	70.1	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:41 PM
Marked complete by danhainey@cm3inc.com on 1/29/2024 5:22:53 PM

WSHP-214 4TH GRADE ISSUES

ISSUE-1319

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-214 4th Grade

Significant rust and buildup found on unit frame and unit assembly. Leak may be coming form multiple sources. : Recommend replacement of the WSHP, Frame, and remaking all pipe fittings for the unit.

Status	Open
Entered	2/28/2024 9:58:15 AM
Entered By	dmychaluk@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	3/6/2024 12:00:00 AM



34334651_PXL_20240127_000228429.jpg; Added on 2/28/2024 9:58:34 AM by dmychaluk@cm3inc.com

WSHP-215 4th Grade

Project / Nether Providence Elementary School / Water Source Heat Pumps

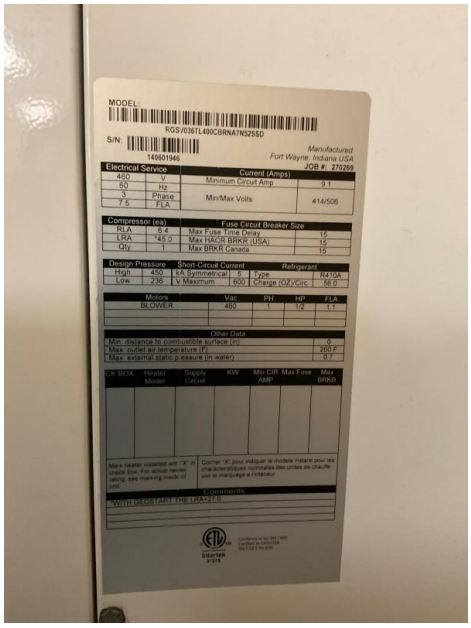
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-14				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/29/2024 4:38:19 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/29/2024 4:38:20 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/29/2024 4:38:20 PM by danhainey@cm3inc.com

WSHP-215 4TH GRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	36.3	74.0	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	70.0	70.5	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	84.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	64.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:41 PM
Marked complete by danhainey@cm3inc.com on 1/29/2024 4:53:29 PM

WSHP-215 4TH GRADE ISSUES

ISSUE-1176

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-215 4th Grade

Control panel is not attached to anything. : Properly mount control panel.

Status	Open
Entered	1/29/2024 4:44:25 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/5/2024 12:00:00 AM



Control Panel.v2.jpg; Added on 1/29/2024 4:44:25 PM by danhainey@cm3inc.com

WSHP-216 4th Grade

Project / Nether Providence Elementary School / Water Source Heat Pumps

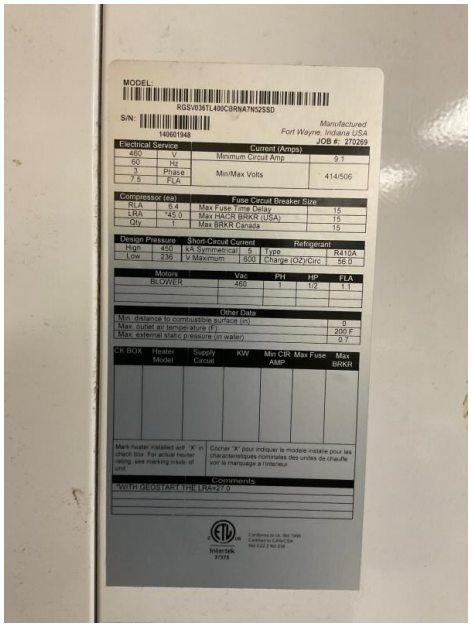
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-15				
Location	Closet				

Notes

danhainey@cm3inc.com on 1/29/2024 4:06:35 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 1/29/2024 4:06:35 PM by danhainey@cm3inc.com



Overview.v2.jpg; Added on 1/29/2024 4:06:35 PM by danhainey@cm3inc.com

WSHP-216 4TH GRADE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	35.7	74.0	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	70.2	70.9	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	70.0	☐	✔	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	84.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	64.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:42 PM
Marked complete by danhainey@cm3inc.com on 1/29/2024 4:29:17 PM

WSHP-216 4TH GRADE ISSUES

ISSUE-1175

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-216 4th Grade

Insulation material on the back of unit access panel is peeling off. : Repair or replace insulation.

Status	Open
Entered	1/29/2024 4:21:29 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/5/2024 12:00:00 AM



Insulation.v2.jpg; Added on 1/29/2024 4:21:30 PM by danhainey@cm3inc.com

WSHP-E-02 MDF

Project / Nether Providence Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-23				
Location	Stor ST-01				

Notes

danhainey@cm3inc.com on 2/1/2024 7:47:32 PM:
Overview



MDF.v2.jpg; Added on 2/1/2024 7:47:32 PM by danhainey@cm3inc.com

WSHP-E-02 MDF WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	32.2	31.5	✔	☐	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	71.6	70.5	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	69.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	66.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	60.0	✔	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:35 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 3:05:27 PM

WSHP-E-02 MDF ISSUES

ISSUE-1250

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-E-02 MDF

Filter is wrong size for unit and filter door is not attached. : Install filter of proper specifications and attach filter door.

Status	Open
Entered	2/1/2024 8:22:06 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



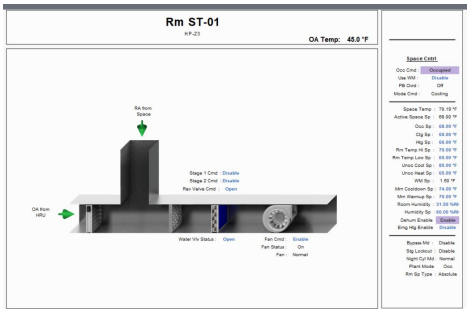
Filter 1.v2.jpg; Added on 2/1/2024 8:22:07 PM by danhainey@cm3inc.com

ISSUE-1251

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-E-02 MDF

Unit failed to engage dehumidification mode. Unit is located in a storage room and unable to confirm equipment has this functionality. : Further check unit once better access is made available.

Status	Open
Entered	2/1/2024 8:27:07 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



Dehumid.png; Added on 2/1/2024 8:30:14 PM by danhainey@cm3inc.com

ISSUE-1259

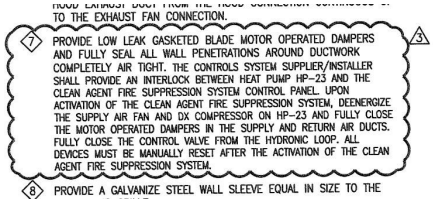
Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-E-02 MDF

HP-23 serves the data room. : Modify graphic and programming such that unit never goes unoccupied or is otherwise shut down unintentionally. Consider adding critical alarming. Unit is designed with supply and return isolation dampers with the attached sequence.

Status	Open
Entered	2/1/2024 10:34:29 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Programming
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



MDF.v2.jpg; Added on 2/1/2024 10:34:30 PM by danhainey@cm3inc.com



Note.png; Added on 2/1/2024 10:46:47 PM by danhainey@cm3inc.com

ISSUE-1287

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-E-02 MDF

Unit fails to maintain operation after occupancy bypass button is pressed. : Check programming.

Status	Open
Entered	2/2/2024 7:41:07 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Automation
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/10/2024 12:00:00 AM

WSHP-M-01.B Office

Project / Nether Providence Elementary School / Water Source Heat Pumps

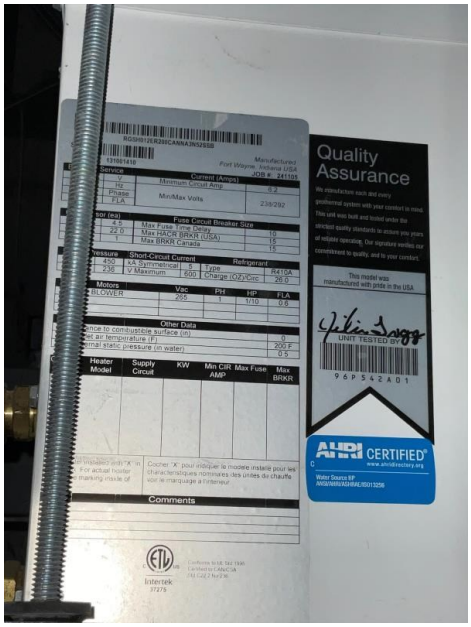
WSHP

Complete

		Design	Proposed	Final	Units
Description	HP-17				
Location	Stor ST-01				

Notes

danhainey@cm3inc.com on 2/1/2024 8:42:18 PM:
Overview and Nameplate



Nameplate.v2.jpg; Added on 2/1/2024 8:42:18 PM by danhainey@cm3inc.com



Storage.v2.jpg; Added on 2/1/2024 8:42:18 PM by danhainey@cm3inc.com

WSHP-M-01.B OFFICE WORK

Functional Checklist

WSHP Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Room Humidity Sensor	%Rh	----	----	----	----	----	----	29.7	23.8	☐	✔	☐	----
----	Room Temperature Sensor	Deg F	----	----	----	----	----	----	72.8	72.1	✔	☐	☐	----
----	Occupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	74.0	✔	☐	☐	----
----	Occupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	72.0	✔	☐	☐	----
----	Humidity Setpoint	Setpnt	----	----	----	----	----	----	----	60.0	✔	☐	☐	----
----	Unoccupied Cooling Setpoint	Setpnt	----	----	----	----	----	----	----	85.0	✔	☐	☐	----
----	Unoccupied Heating Setpoint	Setpnt	----	----	----	----	----	----	----	65.0	✔	☐	☐	----
----	Supply Fan Status	DI	----	----	----	----	----	P	----	----	✔	☐	☐	----
----	Supply Fan Enable	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Dehumidifcation Enable	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Emergency Heating	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Compressor 1	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Compressor 2	DO	----	----	----	----	----	----	----	----	☐	☐	✔	----
----	Isolation Valve	DO	----	F	----	----	----	----	----	----	☐	✔	☐	----
----	Reversing Valve	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Bypass	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	Occupancy Cmd	DO	----	P	----	----	----	----	----	----	✔	☐	☐	----
----	----	----	----	----	----	----	----	----	----	----	☐	☐	☐	----

Complete
Assigned to dmychaluk@cm3inc.com
Created by dmychaluk@cm3inc.com on 1/19/2024 3:23:36 PM
Marked complete by danhainey@cm3inc.com on 2/2/2024 3:05:12 PM

WSHP-M-01.B OFFICE ISSUES

ISSUE-1252

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-M-01.B Office

Filter is wrong size for unit and filter door is not attached. : Install filter of proper specifications and attach filter door.

Status	Open
Entered	2/1/2024 8:46:05 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



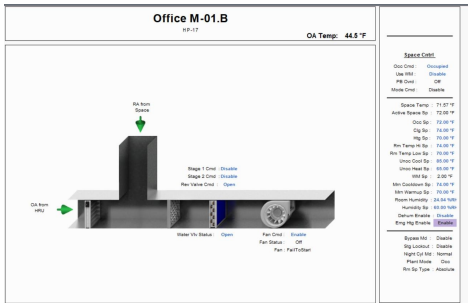
Filter.v2.jpg; Added on 2/1/2024 8:46:05 PM by danhainey@cm3inc.com

ISSUE-1253

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-M-01.B Office

Unit failed to engage dehumidification mode. Unit is located in a storage room and unable to confirm equipment has this functionality. : Further check unit once better access is made available.

Status	Open
Entered	2/1/2024 8:51:22 PM
Entered By	danhainey@cm3inc.com
Priority	Mechanical
Category	Mechanical
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



Dehum.png; Added on 2/1/2024 8:51:23 PM by danhainey@cm3inc.com

ISSUE-1254

Project / Nether Providence Elementary School / Water Source Heat Pumps / WSHP-M-01.B Office

Humidity sensor reads over 5 % RH lower than actual. : Replace humidity sensor.

Status	Open
Entered	2/1/2024 9:09:30 PM
Entered By	danhainey@cm3inc.com
Priority	Automation
Category	Controls Calibration
Assigned To	dmychaluk@cm3inc.com
Respondent Status	Open
Due Date	2/9/2024 12:00:00 AM



Humidity.v2.jpg; Added on 2/1/2024 9:09:31 PM by danhainey@cm3inc.com

Issues Log Condensed

CLOSED	INFO. ONLY	AWAIT. VER.	OPEN
0 0% of 178	0 0% of 178	0 0% of 178	178 100% of 178

ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1119	Mechanical	Mechanical	Unit showing compressor lockout. : Recommend mechanical service of unit.	Open	Open	RTU-1 Administration	dmychaluk@cm3inc.com	1/31/2024 12:00:00 AM	
ISSUE-1120	Mechanical	Mechanical	Rust noted around coil frame. : remediation required	Open	Open	RTU-1 Administration	dmychaluk@cm3inc.com	1/31/2024 12:00:00 AM	
ISSUE-1121	Automation	Automation	Stage 1 coil is blue in color when the compressor is off. : Check graphic DX coil automation.	Open	Open	RTU-1 Administration	dmychaluk@cm3inc.com	1/31/2024 12:00:00 AM	
ISSUE-1122	Automation	Automation	Discharge air sensor is reading 9 Deg F below actual value causing the unit to overheat and overcool the space served. : Recommend replacement of sensor	Open	Open	RTU-2 Library	dmychaluk@cm3inc.com	1/31/2024 12:00:00 AM	
ISSUE-1123	Automation	Automation	Missing room setpoint high and room setpoint low from Niagara integration. : recommend correction and addition of logic with exposed parameters on the Niagara front end.	Open	Open	RTU-2 Library	dmychaluk@cm3inc.com	1/31/2024 12:00:00 AM	
ISSUE-1124	Mechanical	Mechanical	Compressor controllers for both circuits show a fault 4 for a locked rotor. : Recommend troubleshooting the cooling circuits	Open	Open	RTU-2 Library	dmychaluk@cm3inc.com	1/31/2024 12:00:00 AM	
ISSUE-1125	Automation	Automation	OA flow setpoint is not controlling OA damper properly. Flow reading 2465 damper will not go below 60% without override. : recommend replacement of the controller.	Open	Open	RTU-3 Art, Computer Rooms	dmychaluk@cm3inc.com	1/31/2024 12:00:00 AM	
ISSUE-1126	Energy	Mechanical	When overridden to 0% the OA damper is actually at 20%. With OA flow showing 0%. Recommend correcting OA damper actuator on damper assembly.	Open	Open	RTU-3 Art, Computer Rooms	dmychaluk@cm3inc.com	1/31/2024 12:00:00 AM	
ISSUE-1127	Automation	Automation	RTU 3 integration is not functional for heating control, unit works in heating is setpoints not reflected int eh graphic are overridden. : Recommend correction of setpoints and adding additional text to describe what setpoints need to be modified for proper unit control.	Open	Open	RTU-3 Art, Computer Rooms	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1128	Automation	Automation	BAS graphic needs updating to reflect zone humidity sensor, one compressor, no emergency heat, and active setpoint values are not accurate and are the wrong facet. coil is removed on some units when unit is satisfied (HP123) : Recommend correction of graphic	Open	Open	WSHP - General Findings	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1129	Energy	Automation	Isolation valve open while unit is unoccupied. : Recommend replacement of controller. Include programming to enable the isolation valve only when calling for a compressor.	Open	Open	WSHP - General Findings	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	

ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1130	Mechanical	Mechanical	Condenser water isolation valve is leaking. : Repair or replace condenser water isolation valve.	Open	Open	WSHP-128 2ndGrade	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1132	Automation	Automation	Unit offline and has no power after pressing the occupancy override button on the thermostat. After power cycling the the unit goes back online. : Recommend replacement of the thermostat and troubleshooting wiring issues	Open	Open	WSHP-125 SpecEd	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1133	Mechanical	Mechanical	Condenser water isolation valve actuator is detached from valve body. : Replace condenser water isolation valve.	Open	Open	WSHP-126 2ndGrade	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1134	Structural	Mechanical, Access	Master key does not work for this mechanical closet. : recommend rekeying the door.	Open	Open	WSHP-121 1stGrade	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1135	Mechanical	Mechanical	Coil is dirty and requires cleaning, filter is dirty adn requires replacement. : Reocmmend maintenance of unit.	Open	Open	WSHP-121 1stGrade	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1136	Mechanical	Mechanical	Condensate pan is rusted and has old debris in the pan. the condensate line appears to be shaped incorrectly and needs to be cleaned and properly ran through the unit. : recommend correction of condensate issues.	Open	Open	WSHP-121 1stGrade	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1137	Automation	Controls Programming	When dehumidification is manually enabled, fan command shows disabled, compressor shows disabled, and coil graphic disappears. : Correct graphics as required.	Open	Open	WSHP - General Findings	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1138	Automation	Controls Programming	Humidity setpoint is linked to morning warmup setpoint. : Correct dehumidification setpoint on graphic. Confirm unit operates in dehumidification mode when this setpoint is exceeded.	Open	Open	WSHP - General Findings	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1139	Energy	Mechanical	Isolation valve actuator removed and most likely failed. : recommend replacement of valve and actuator	Open	Open	WSHP-117 SGI	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1140	Mechanical	Mechanical	Coil is dirty and requires cleaning. : recommend professional cleaning of the coil	Open	Open	WSHP-117 SGI	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1141	Mechanical	Mechanical	Unit has a compressor lockout error code. : Recommend troubleshooting compressor circuits for issues.	Open	Open	ERU-6	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1142	Energy	Automation	Failed space static sensor in the controller shows 4.99 causing the exhaust fan to run at 60hz. display for space static shows .04. recommend replacement of controller or correcting logic int eh comfort point controller.	Open	Open	ERU-6	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	

ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1143	Mechanical	Mechanical	Water leak or water intrusion found in the condenser water loop cabinet. : Recommend locating and correcting leak/or penetration as needed.	Open	Open	ERU-6	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1144	Mechanical	Mechanical	AAON controller shows a compressor lockout fault code. Neither compressor is enabling when the BAS calls for a compressor run. : Recommend troubleshooting compressor circuit.	Open	Open	ERU-7	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1145	Mechanical	Mechanical	OA flow sensor has a insect nest built over the flow sampling tubes and will prevent accurate flow measurement resulting in excessive OA intake. : recommend following manufactures cleaning and maintenance of sampling tubes.	Open	Open	ERU-7	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1146	Automation	Automation	Exhaust fan Binary command not enabling drive to run status. Drive speed signal modulates as expected. : Recommending the comfort-point controller be programmed or replaced.	Open	Open	ERU-7	dmychaluk@cm3inc.com	2/1/2024 12:00:00 AM	
ISSUE-1147	Mechanical	Mechanical	Coil needs to be cleaned and is compacted with dirt..: recommend cleaning the coil.	Open	Open	WSHP-113 Kindergarten	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1148	Mechanical	Mechanical	Condensate drain pan is rusting along with the coil frame. : recommend remediation and cleaning/replacing the drain line	Open	Open	WSHP-113 Kindergarten	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1149	Mechanical	Mechanical	Coil is dirty and requires cleaning. : Recommend professional cleaning of coil	Open	Open	WSHP-111 3rdGrade	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1150	Mechanical	Mechanical	Corrosion and evidence of rust buidling up on braided lines for the glycol loop. : Recommend replacement of line and cleaning/sealing fittings.	Open	Open	WSHP-111 3rdGrade	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1151	Mechanical	Mechanical	Coil is dirty and requires cleaning. : recommend cleaning of the coil.	Open	Open	WSHP-110 3rdGrade	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1152	Mechanical	Mechanical	Condenser water isolation valve actuator is disconnected from valve body. : Repair or replace condenser water isolation valve.	Open	Open	WSHP-108 3rdGrade	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1153	Mechanical	Mechanical	Coil is dirty and requires cleaning	Open	Open	WSHP-109 3rdGrade	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1154	Mechanical	Mechanical	Supply fan is noisy. : Troubleshoot and repair or replace per manufacturer recommendations.	Open	Open	WSHP-108 3rdGrade	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	

ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1155	Mechanical	Mechanical	Condensate like needs to be flushed and cleaned. : recommend replacement of line and flushing additional piping	Open	Open	WSHP-107 Fac Dining	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1156	Mechanical	Mechanical	Corrosion beginning to form on conditioned water loop piping and fittings. : recommend replacement of fittings.	Open	Open	WSHP-107 Fac Dining	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1157	Mechanical	Mechanical	Coil is dirty and compacted. : recommend cleaning of coil	Open	Open	WSHP-105 MusicRoom	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1158	Mechanical	Mechanical	Heat wheel belt is no longer attached and the motor is freespining. : Recommend replacement of belt and adjusting sensitivity of the CT to trigger at a higher amp draw so the status reflect accurately	Open	Open	RTU-4 Gymnasium	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1159	Mechanical	Mechanical	Compressor circuit 2 no longer connected to low voltage circuit, note states refrigerant has been removed. : recommend troubleshooting refrigerant circuit for issues.	Open	Open	RTU-4 Gymnasium	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1160	IAQ	Automation	Controller has a C02 sensor and a min C02 Damper position but no Space C02 setpoint. : Recommend verification of integration and replacement of the comfort point controller as needed	Open	Open	RTU-4 Gymnasium	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1161	Automation	Automation	Unit has additional points that need to be added to the graphics for proper functionality. : Recommend adding these points and confirming integration	Open	Open	RTU-4 Gymnasium	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1162	Automation	Automation	Building static sensor and setpoint are not in the BAS graphics. : recommend adding to the graphics.	Open	Open	RTU-4 Gymnasium	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1163	Automation	Automation	Building static sensor and setpoint are not in the BAS graphics. : recommend adding to the graphics.	Open	Open	RTU-5 Cafeteria, Stage	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1164	Mechanical	Mechanical	Heat wheel belt is no longer attached and the motor is freespining. : Recommend replacement of belt and adjusting sensitivity of the CT to trigger at a higher amp draw so the status reflect accurately	Open	Open	RTU-5 Cafeteria, Stage	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1165	Automation	Automation	Heat wheel setpoint is set such that the wheel should be disabled however it is still enabled by the controller. : recommend correction of programming within the comfort point controller so the heat wheel follows lockout setpoints.	Open	Open	RTU-5 Cafeteria, Stage	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1166	Mechanical	Mechanical	Dirty wet rags found in the conditioned loop cabinet. Rags may have been from a previous or still active leak. Due to the growth found on the rags and active leak still maybe present. : recommend cleaning cabinet and searching for water penetrations	Open	Open	RTU-5 Cafeteria, Stage	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	

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ISSUE-1167	Automation	Automation	Room temp setpoint override worked to command the unit, appears other setpoints needed modification as well. not all setpoints were available in the existing BAS graphics. : recommend correction of graphics.	Open	Open	RTU-5 Cafeteria, Stage	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1168	Automation	Automation	BAS shows 0.0 for building static, actual is 0.10 on sensor display. : Recommend verification of integration and correction of programming within the comfort point controller if needed.	Open	Open	ERU-8	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1169	Automation	Automation	Discharge humidity setpoint has no effect on unit operation. : recommend correction of setpoint programming within the comfort point controller.	Open	Open	ERU-8	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1170	Automation	Automation	Space sensor is reading 3 Deg F higher in the BAS. : Recommend correction of sensor calibration.	Open	Open	SOV-218 Computer Room 1	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1173	Automation	Automation	Space sensor is reading 3 Deg F lower than actual. : Recommend calibration of sensor.	Open	Open	SOV-100.G Guidance	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1174	Automation	Automation	Unit occupancy is not reflecting correctly, occupied command is occupied however the status does not change and stays unoccupied and reflects unoccupied setpoints. : Recommend troubleshooting the controller and replacing as needed. Unoccupied setpoints modified until repairs can take place.	Open	Open	SOV-100.G Guidance	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1175	Mechanical	Mechanical	Insulation material on the back of unit access panel is peeling off. : Repair or replace insulation.	Open	Open	WSHP-216 4th Grade	dmychaluk@cm3inc.com	2/5/2024 12:00:00 AM	
ISSUE-1176	Mechanical	Mechanical	Control panel is not attached to anything. : Properly mount control panel.	Open	Open	WSHP-215 4th Grade	dmychaluk@cm3inc.com	2/5/2024 12:00:00 AM	
ISSUE-1177	Safety	Electrical	Electrical flex conduit has detached from connector. : Repair conduit.	Open	Open	WSHP-213 4th Grade	dmychaluk@cm3inc.com	2/5/2024 12:00:00 AM	
ISSUE-1180	Mechanical	Mechanical	Insulation missing from condensate piping. : Repair condensate piping insulation.	Open	Open	WSHP-211 Spec Ed	dmychaluk@cm3inc.com	2/5/2024 12:00:00 AM	
ISSUE-1181	Mechanical	Mechanical	Condenser coil shows a dark brown discoloration in lower portion. : Check with manufacturer for a solution or continue to monitor.	Open	Open	WSHP-208 5th Grade	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	
ISSUE-1182	Mechanical	Mechanical	Compressor compartment insulation inside unit sagging. : Repair insulation.	Open	Open	WSHP-208 5th Grade	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	

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ISSUE-1185	Automation	Controls Programming	Unit in room 205 has no response to commands on graphic. Graphic appears to be integrated to the unit in room 206 across the hall. : Review and correct integration.	Open	Open	WSHP-205 SGI FacRm	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	
ISSUE-1186	Safety	Electrical	Electrical flex conduit connector has screw removed. : Repair flex conduit connector.	Open	Open	WSHP-203 SGI	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	
ISSUE-1187	Mechanical	Mechanical	Unit is not equipped for dehumidification. : Remove all references from graphic and points.	Open	Open	WSHP-203 SGI	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	
ISSUE-1188	Automation	Controls Programming	Unit is not equipped for dehumidification. : Remove all references from graphic and points.	Open	Open	WSHP-204 Reading	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	
ISSUE-1189	Mechanical	Mechanical	Filter access door is missing. : Install a new filter access door.	Open	Open	WSHP-202 5thGrade	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	
ISSUE-1191	Energy	Mechanical	Hot water piping is missing insulation. : Properly insulate hot water piping.	Open	Open	CH-3C Elevator C-11	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	
ISSUE-1192	Automation	Automation	Supply fan failed to start upon command. Control relay did not light up. : Check control wiring and programming.	Open	Open	CH-3C Elevator C-11	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	
ISSUE-1194	Automation	Automation	Hot water control valve failed to close upon command. : Check control wiring and programming.	Open	Open	CH-3C Elevator C-11	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	
ISSUE-1196	Energy	Mechanical	Hot water piping is missing insulation. : Properly insulate hot water piping.	Open	Open	CH-3D Stairs C-11	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	
ISSUE-1197	Automation	Automation	Supply fan failed to start upon command. Control relay did not light up. : Check control wiring and programming.	Open	Open	CH-3D Stairs C-11	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	
ISSUE-1198	Automation	Automation	Hot water control valve failed to close upon command. : Check control wiring and programming.	Open	Open	CH-3D Stairs C-11	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	
ISSUE-1200	Automation	Controls Programming	This unit is improperly shown on 1st floor plan graphic : Relocate unit to 2nd floor plan graphic.	Open	Open	CH-1B Upper Stair S-3	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	

ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1201	Automation	Controls Programming	Unit is not shown on BAS floor plan graphic. : Add to graphic, serving Boys T-13.	Open	Open	C-1G Boys T-13	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	
ISSUE-1202	Automation	Controls Programming	Clicking on Unit Name C-1H on overview graphic links to wrong floor plan graphic. : Correct graphics.	Open	Open	C-1H Girls T-14	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	
ISSUE-1203	Automation	Automation	Hot water control valve failed to close upon command. : Check control wiring and programming.	Open	Open	C-1H Girls T-14	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	
ISSUE-1204	Automation	Controls Programming	Unit is not shown on BAS floor plan graphic. : Add to graphic, serving Girls T-14.	Open	Open	C-1H Girls T-14	dmychaluk@cm3inc.com	2/6/2024 12:00:00 AM	
ISSUE-1206	Automation	Controls Programming	Unit is not shown in correct location on BAS floor plan graphic. : Move close to elevator, serving Corridor C-11.	Open	Open	CH-3C Elevator C-11	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1207	Automation	Automation	Hot water control valve failed to close upon command. : Check control wiring and programming.	Open	Open	C-2B Toilet T-11	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1208	Automation	Automation	Hot water control valve failed to close upon command. : Check control wiring and programming.	Open	Open	C-2A Toilet T-09	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1209	Automation	Controls Programming	Unit is not shown on BAS floor plan graphic in correct location. : Relocate on graphic, outside of Janitors Closet.	Open	Open	CH-3G Corridor C-10	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1210	Automation	Mechanical	Unit has no hot water flow and unable to heat. : Check control valve and piping.	Open	Open	CH-3E Upper Stair S-1	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1211	Automation	Controls Programming	Unit is not shown in correct location on BAS floor plan graphic. : Relocate unit to correct location (Art Storage).	Open	Open	C-2C Room 217 Art Storage	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1212	Automation	Controls Programming	Unit is not shown in correct location on BAS floor plan graphic. : Relocate unit to correct location (Kiln).	Open	Open	C-2D Room 217 Kiln	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1213	Automation	Automation	Hot water control valve failed to close upon command. : Check control wiring and programming.	Open	Open	C-2D Room 217 Kiln	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	

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ISSUE-1214	Automation	Automation	Hot water control valve failed to close upon command. : Check control wiring and programming.	Open	Open	C-2C Room 217 Art Storage	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1215	Automation	Automation	Hot water control valve failed to close upon command. : Check control wiring and programming.	Open	Open	CH-7 Lower Stairs	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1216	Automation	Automation	Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.	Open	Open	CH-7 Lower Stairs	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1217	Automation	Automation	Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.	Open	Open	CH-4 Corridor C-7	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1218	Automation	Automation	Hot water control valve failed to close upon command. : Check control wiring and programming.	Open	Open	CH-4 Corridor C-7	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1219	Automation	Automation	Supply fan failed to start upon command. : Check control wiring and programming.	Open	Open	CH-4 Corridor C-7	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1220	Automation	Automation	Space temperature sensor reads 0.00 degrees F. : Check wiring. Replace space temperature sensor as required.	Open	Open	CH-4 Corridor C-7	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1221	Automation	Automation	Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.	Open	Open	CH-6 Outside Toilet	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1222	Automation	Automation	Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.	Open	Open	CH-8A Lobby C-8	bencohen@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1223	Automation	Automation	Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.	Open	Open	CH-8B Lobby C-8	bencohen@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1224	Automation	Automation	Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.	Open	Open	CH-1A Stair S-2	dmychaluk@cm3inc.com	2/7/2024 12:00:00 AM	
ISSUE-1225	Mechanical	Design	Unit discharge is blocked by ceiling tiles and has little to no ability to heat the space. : Modify ceiling grid and tiles or install an alternate style of heating unit.	Open	Open	FTR-1 Storage ST-4	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	

ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1226	Automation	Automation	Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.	Open	Open	FTR-1 Storage ST-4	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1227	Mechanical	Mechanical	Blower motor making high pitched noise and requires servicing. Unit is turned off. : Repair blower or blower motor.	Open	Open	CH-11 Lower Stair S-01	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1228	Automation	Automation	Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.	Open	Open	CH-11 Lower Stair S-01	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1231	Automation	Control Device Installation	Space temperature sensor reads -11.84 degrees F. Unable to locate sensor. : Repair or install a space temperature as required.	Open	Open	CH-9A Corridor by ST-01	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1232	Automation	Controls Programming	Unit is mislabeled as serving Room 112B on BAS overview and floor plan graphic. : Relocate and rename unit to serve corridor near the nurse.	Open	Open	CH-9C Corridor near Nurse	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1234	Automation	Automation	Hot water control valve failed to close upon command. : Check control wiring and programming.	Open	Open	CH-9C Corridor near Nurse	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1235	Automation	Controls Programming	Floor plan graphic does not show actual location of unit. : Relocate unit on floor plan graphic close to Vestibule as shown.	Open	Open	CH-12A Lobby	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1236	Automation	Controls Programming	Floor plan graphic does not show actual location of unit. : Relocate unit on floor plan graphic serving corridor closer to Mail/File room as shown.	Open	Open	CH-12B Lobby	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1237	Automation	Automation	Hot water control valve failed to close upon command. : Check control wiring and programming.	Open	Open	C-1B Toilet 112B	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1238	Automation	Controls Programming	CH-10A and CH-10B are flip-flopped on BAS graphic. : Make corrections to BAS graphic.	Open	Open	CH-10B Vestibule C-1A	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1239	Automation	Controls Programming	CH-10A and CH-10B are flip-flopped on BAS graphic. : Make corrections to BAS graphic.	Open	Open	CH-10A Vestibule C-1A	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1240	Automation	Control Device Installation	Space temperature sensor is covered in duct tape. : Replace space temperature sensor.	Open	Open	CH-2B Boys T-01	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	

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ISSUE-1241	Automation	Controls Programming	This unit is incorrectly integrated as UH-1B at the BAS. : Correct integration (points, graphic, database).	Open	Open	CH-4 Vestibule near Music	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1242	Automation	Control Device Installation	Space temperature sensor is in discharge of convector. : Relocate space temperature sensor to an opposite wall.	Open	Open	C-1F Room 102B	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1243	Automation	Automation	Hot water control valve failed to close upon command. : Check control wiring and programming.	Open	Open	C-1F Room 102B	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1244	Automation	Controls Programming	This unit is improperly located on the BAS floor plan graphic. : Relocate unit on BAS floor plan to serve Storage 102A (Janitor Closet).	Open	Open	C-1F Room 102B	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1245	Automation	Controls Programming	This unit is improperly located on the BAS floor plan graphic. : Relocate unit on BAS floor plan graphic to serve Storage 102B.	Open	Open	UH-1C Room 102B Storage	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1247	Mechanical	Mechanical	Filter is not correct size and filter door is not installed. : Install filter of correct specification and filter door.	Open	Open	WSHP-104 KitchenStorage,Office	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1248	Automation	Controls Programming	Unit is equipped with an electric duct coil (DC-2) and an outside air motorized damper. Neither are shown on the BAS graphic. : Correct BAS graphic to illustrate existence and functionality of this equipment.	Open	Open	WSHP-104 KitchenStorage,Office	dmychaluk@cm3inc.com	2/8/2024 12:00:00 AM	
ISSUE-1249	Automation	Controls Programming	Unit is equipped with an electric duct coil (DC-1) and an outside air motorized damper. Neither are shown on the BAS graphic. : Correct BAS graphic to illustrate existence and functionality of this equipment. Outside air motorized damper found functional.	Open	Open	WSHP-101A Gymnasium Office	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1250	Mechanical	Mechanical	Filter is wrong size for unit and filter door is not attached. : Install filter of proper specifications and attach filter door.	Open	Open	WSHP-E-02 MDF	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1251	Mechanical	Mechanical	Unit failed to engage dehumidification mode. Unit is located in a storage room and unable to confirm equipment has this functionality. : Further check unit once better access is made available.	Open	Open	WSHP-E-02 MDF	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1252	Mechanical	Mechanical	Filter is wrong size for unit and filter door is not attached. : Install filter of proper specifications and attach filter door.	Open	Open	WSHP-M-01.B Office	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1253	Mechanical	Mechanical	Unit failed to engage dehumidification mode. Unit is located in a storage room and unable to confirm equipment has this functionality. : Further check unit once better access is made available.	Open	Open	WSHP-M-01.B Office	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	

ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1254	Automation	Controls Calibration	Humidity sensor reads over 5 % RH lower than actual. : Replace humidity sensor.	Open	Open	WSHP-M-01.B Office	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1255	Automation	Automation	Hot water control valve failed to close upon command. : Check control wiring and programming.	Open	Open	C-1C Toilet 122A	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1256	Automation	Automation	Hot water control valve failed to close upon command. : Check control wiring and programming.	Open	Open	C-1L Toilet 114	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1257	Automation	Controls Programming	This unit does not appear to be integrated. : Properly integrate unit and include on BAS graphic in location shown.	Open	Open	C-1 100C Admin	bencohen@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1259	Automation	Controls Programming	HP-23 serves the data room. : Modify graphic and programming such that unit never goes unoccupied or is otherwise shut down unintentionally. Consider adding critical alarming. Unit is designed with supply and return isolation dampers with the attached sequence.	Open	Open	WSHP-E-02 MDF	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1260	Automation	Controls Calibration	Space temperature sensor reads over 3 degrees F too high. : Calibrate or replace space temperature sensor.	Open	Open	UH-2A MER	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1261	Energy	Mechanical	Hot water supply and hot water return piping is missing insulation. : Professionally insulate hot water piping.	Open	Open	UH-2A MER	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1262	Automation	Controls Programming	The BAS floor plan graphic incorrectly shows this unit in the electrical room : Relocate unit to the mechanical room. There is no BAS controlled hydronic unit heater in the electrical room, only a stanalone electric unit heater exists.	Open	Open	UH-2A MER	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1263	Automation	Automation	Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.	Open	Open	C-1C Toilet 122A	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1264	Automation	Automation	Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.	Open	Open	C-1K Toilet 113	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1265	Automation	Automation	Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.	Open	Open	C-1L Toilet 114	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1266	Automation	Automation	Building is occupied. Active setpoint reflects the unoccupied setpoint. : Check programming.	Open	Open	UH-2B Crawl Space	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	

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ISSUE-1267	Automation	Automation	Points are in fault. : Check integration and programming.	Open	Open	Controls	bencohen@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1268	Automation	Automation	System has points in fault. : Check controller and programming.	Open	Open	HWS-Controls	bencohen@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1269	Automation	Automation	Unit is not equipped for dehumidification. : Remove all references from graphic and points.	Open	Open	WSHP-118 Read	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1270	Safety	Electrical	Electrical flex conduit has separated from connector. : Repair electrical flexible conduit.	Open	Open	WSHP-118 Read	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1271	Automation	Controls Calibration	Space humidity sensor reads approximately 4 % RH too low. : Calibrate or replace space humidity sensor.	Open	Open	WSHP-118 Read	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1272	Automation	Controls Programming	Unit is not equipped for dehumidification. : Remove all references from graphic and points.	Open	Open	WSHP-119 Speech	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1273	Mechanical	Mechanical	Condenser water isolation valve actuator is removed from valve body. : Replace condenser water isolation valve.	Open	Open	WSHP-119 Speech	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1274	Mechanical	Mechanical	Condenser water pipe is leaking. : Repair condenser water piping.	Open	Open	WSHP-119 Speech	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1275	Mechanical	Mechanical	Insulation on the back of unit access panel is peeling off. : Repair unit cabinet insulation.	Open	Open	WSHP-119 Speech	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1276	Automation	Controls Calibration	Space humidity sensor reads greater than 3 % RH too low. : Calibrate or replace space humidity sensor.	Open	Open	WSHP-119 Speech	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1277	Mechanical	Mechanical	Unable to access unit. Enclosure lock is jammed. : Repair lock.	Open	Open	WSHP-120 OT	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1278	Automation	Controls Calibration	Space humidity sensor reads over 4 % RH too low. : Calibrate or replace humidity sensor.	Open	Open	WSHP-120 OT	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	

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ISSUE-1279	Mechanical	Mechanical	Incorrect filter is installed and filter door is unattached. : Install filter of proper specifications and attach filter door.	Open	Open	WSHP-122 Learning	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1280	Automation	Controls Calibration	Space humidity sensor reads over 5 % RH too low. : Calibrate or replace space humidity sensor.	Open	Open	WSHP-116 SpecEd	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1281	Mechanical	Mechanical	Return air grille is loose from wall. : Repair return air grille.	Open	Open	WSHP-116 SpecEd	dmychaluk@cm3inc.com	2/9/2024 12:00:00 AM	
ISSUE-1282	Automation	Automation	Unit failed to engage dehumidification mode. Unit is located in a storage room and unable to confirm equipment has this functionality. : Further check unit once better access is made available.	Open	Open	WSHP-101A Gymnasium Office	dmychaluk@cm3inc.com	2/10/2024 12:00:00 AM	
ISSUE-1283	Mechanical	Mechanical	Unit is missing a cabinet or enclosure panel. : Reinstall correct cabinet panel.	Open	Open	WSHP-101A Gymnasium Office	dmychaluk@cm3inc.com	2/10/2024 12:00:00 AM	
ISSUE-1284	Automation	Controls Calibration	Space sensor is inaccurate with both space humidity and space temperature. : Calibrate or replace space humidity and temperature sensor.	Open	Open	WSHP-101A Gymnasium Office	dmychaluk@cm3inc.com	2/10/2024 12:00:00 AM	
ISSUE-1285	Mechanical	Mechanical	Filter was found improperly installed and unit is missing filter door. : Replace filter door.	Open	Open	WSHP-101A Gymnasium Office	dmychaluk@cm3inc.com	2/10/2024 12:00:00 AM	
ISSUE-1286	Automation	Automation	Unit fails to maintain operation after occupancy bypass button is pressed. : Check programming.	Open	Open	WSHP-101A Gymnasium Office	dmychaluk@cm3inc.com	2/10/2024 12:00:00 AM	
ISSUE-1287	Automation	Automation	Unit fails to maintain operation after occupancy bypass button is pressed. : Check programming.	Open	Open	WSHP-E-02 MDF	dmychaluk@cm3inc.com	2/10/2024 12:00:00 AM	
ISSUE-1289	Automation	Controls Programming	Pump 2A and Pump 2B are each equipped with a VFD. BAS graphic does not illustrate VFD speed command. : Add VFD speed command for each pump to graphic.	Open	Open	HWS-Controls	bencohen@cm3inc.com	2/12/2024 12:00:00 AM	
ISSUE-1290	Automation	Automation	Differential pressure setpoint is unable to be maintained. Differential pressure setpoint is 10 psi, and actual is 8.7 psi with bypass valve 17.5 % open. Check VFD functionality and programming.	Open	Open	HWS-Controls	bencohen@cm3inc.com	2/12/2024 12:00:00 AM	
ISSUE-1291	Automation	Controls Calibration	Cooling tower flow meter reads 522.0 gal/min when there is no water flow to cooling tower. : Calibrate or replace flow meter.	Open	Open	Controls	bencohen@cm3inc.com	2/12/2024 12:00:00 AM	

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ISSUE-1292	Automation	Controls Programming	Graphic is unclear as what setpoint controls the cooling tower (shown as HPS Return SP). This is more likely CT Leaving SP. : Clarify important setpoints and corresponding control.	Open	Open	Controls	bencohen@cm3inc.com	2/12/2024 12:00:00 AM	
ISSUE-1293	Automation	Automation	System is maintaining a differential setpoint of 28 psi. A more standard energy saving setpoint is 15 psi. : Consider adjusting differential pressure setpoint.	Open	Open	Controls	bencohen@cm3inc.com	2/12/2024 12:00:00 AM	
ISSUE-1294	Energy	Mechanical	Insulation missing on hot water return piping. : Repair pipe insulation.	Open	Open	Heat Exchanger	dmychaluk@cm3inc.com	2/12/2024 12:00:00 AM	
ISSUE-1295	Mechanical	Mechanical	Leak noted around hot water control valve. : Monitor or repair leaks as required.	Open	Open	Heat Exchanger	dmychaluk@cm3inc.com	2/12/2024 12:00:00 AM	
ISSUE-1296	Mechanical	Mechanical	Leak noted at cooling tower makeup. : Repair leak and replace insulation as required.	Open	Open	Cooling Tower	dmychaluk@cm3inc.com	2/12/2024 12:00:00 AM	
ISSUE-1297	Automation	Controls Programming	Graphic is unclear regarding Supply Hi Sp and Supply Lo Sp. Are these alarm setpoints? : Clarify graphic.	Open	Open	Controls	bencohen@cm3inc.com	2/12/2024 12:00:00 AM	
ISSUE-1298	Automation	Controls Programming	What is the purpose of OA Low Lim Sp? : Clarify graphics.	Open	Open	Controls	bencohen@cm3inc.com	2/12/2024 12:00:00 AM	
ISSUE-1299	Automation	Controls Programming	Unit remains in unoccupied mode when all building schedules are occupied. : Check and clarify building schedules.	Open	Open	RTU-1 Administration	dmychaluk@cm3inc.com	2/12/2024 12:00:00 AM	
ISSUE-1300	Automation	Controls Calibration	Unit remains in unoccupied mode when all building schedules are occupied. : Check and clarify building schedules.	Open	Open	RTU-2 Library	dmychaluk@cm3inc.com	2/12/2024 12:00:00 AM	
ISSUE-1301	Automation	Controls Programming	Unit remains in unoccupied mode when all building schedules are occupied. : Check and clarify building schedules.	Open	Open	RTU-3 Art, Computer Rooms	dmychaluk@cm3inc.com	2/12/2024 12:00:00 AM	
ISSUE-1302	Automation	Automation	Space temperature sensor reads 0.00 degrees F. : Check programming or replace space temperature sensor as required.	Open	Open	SOV-100.A Conf Room	dmychaluk@cm3inc.com	2/12/2024 12:00:00 AM	
ISSUE-1303	Automation	Controls Programming	BAS graphic incorrectly shows this unit serving admin area. It serves the lobby. : Make corrections to graphic.	Open	Open	SOV-100 Lobby	dmychaluk@cm3inc.com	2/13/2024 12:00:00 AM	

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ISSUE-1304	Automation	Controls Calibration	Space temperature sensor reads approximately 3 degrees F too high. : Calibrate or replace space temperature sensor.	Open	Open	SOV-100 Admin	dmychaluk@cm3inc.com	2/13/2024 12:00:00 AM	
ISSUE-1305	Automation	Controls Calibration	Space temperature sensor reads approximately 3 degrees F too high. : Calibrate or replace space temperature sensor.	Open	Open	SOV-100.B Psych	dmychaluk@cm3inc.com	2/13/2024 12:00:00 AM	
ISSUE-1306	Automation	Controls Calibration	Space temperature sensor reads approximately 3 degrees F too low. : Calibrate or replace space temperature sensor.	Open	Open	SOV-100.F Conf Rm	dmychaluk@cm3inc.com	2/13/2024 12:00:00 AM	
ISSUE-1307	Automation	Mechanical	Supply air temperature is noticeably higher (63.75 degrees F) compared to other SOV boxes with control valves commanded closed. : Check control valve and programming.	Open	Open	SOV-218A tech Room	dmychaluk@cm3inc.com	2/13/2024 12:00:00 AM	
ISSUE-1308	Automation	Mechanical	Supply air temperature is noticeably higher (70.07 degrees F) compared to other SOV boxes with control valves commanded closed. : Check control valve and programming.	Open	Open	SOV-100.A Conf Room	dmychaluk@cm3inc.com	2/13/2024 12:00:00 AM	
ISSUE-1311	Automation	Automation	Outside air temperature is 45 degrees F in late afternoon. Two boilers are enabled, where 1 is likely sufficient. : Check boiler drop / add programming.	Open	Open	HWS-Controls	bencohen@cm3inc.com	2/13/2024 12:00:00 AM	
ISSUE-1314	Automation	Automation	Cooling tower flow sensor shows 597 GPM however the pump is off and valve shows closed on the BAS. Water flow was not noted in the tower : Recommend replacement of the tower flow sensor	Open	Open	Cooling Tower	dmychaluk@cm3inc.com	2/23/2024 12:00:00 AM	
ISSUE-1315	Mechanical	Mechanical	Cooling tower air louver cells are compacted with scale and moss growth. Sealed coil is beginning to rust and has significant calcification. Replacement of the cells and coil should be considered. Replacement of the tower may be warranted.	Open	Open	Cooling Tower	dmychaluk@cm3inc.com	2/26/2024 12:00:00 AM	
ISSUE-1319	Mechanical	Mechanical	Significant rust and buildup found on unit frame and unit assembly. Leak may be coming form multiple sources. : Recommend replacement of the WSHP, Frame, and remaking all pipe fittings for the unit.	Open	Open	WSHP-214 4th Grade	dmychaluk@cm3inc.com	3/6/2024 12:00:00 AM	
ISSUE-1320	Mechanical	Mechanical	Cooling tower chemical feed is enclosed in a residential style Rubbermaid storage unit. The chemical feed has power and appears to be active. However this is an unprofessional installation and should be moved into the mechanical room and plumbed out to the tower as needed.	Open	Open	Cooling Tower	dmychaluk@cm3inc.com	3/6/2024 12:00:00 AM	
ISSUE-1323	Mechanical	Mechanical	Isolation control valves have a high rate of failure and are not functioning as expected. Additionally there are no isolation valves prior to the control valve which prevent proper servicing of the equipment. : Recommend replacement of valve and actuator and installation of an isolation valve prior to the actuator.	Open	Open	WSHP - General Findings	dmychaluk@cm3inc.com	3/8/2024 12:00:00 AM	