

CROSWELL-LEXINGTON
COMMUNITY SCHOOLS

FROSTICK ELEMENTARY
HVAC Controls Upgrade

CROSWELL, MICHIGAN
PROJECT NO. 2022-017

APRIL 8, 2022 BID DOCUMENTS

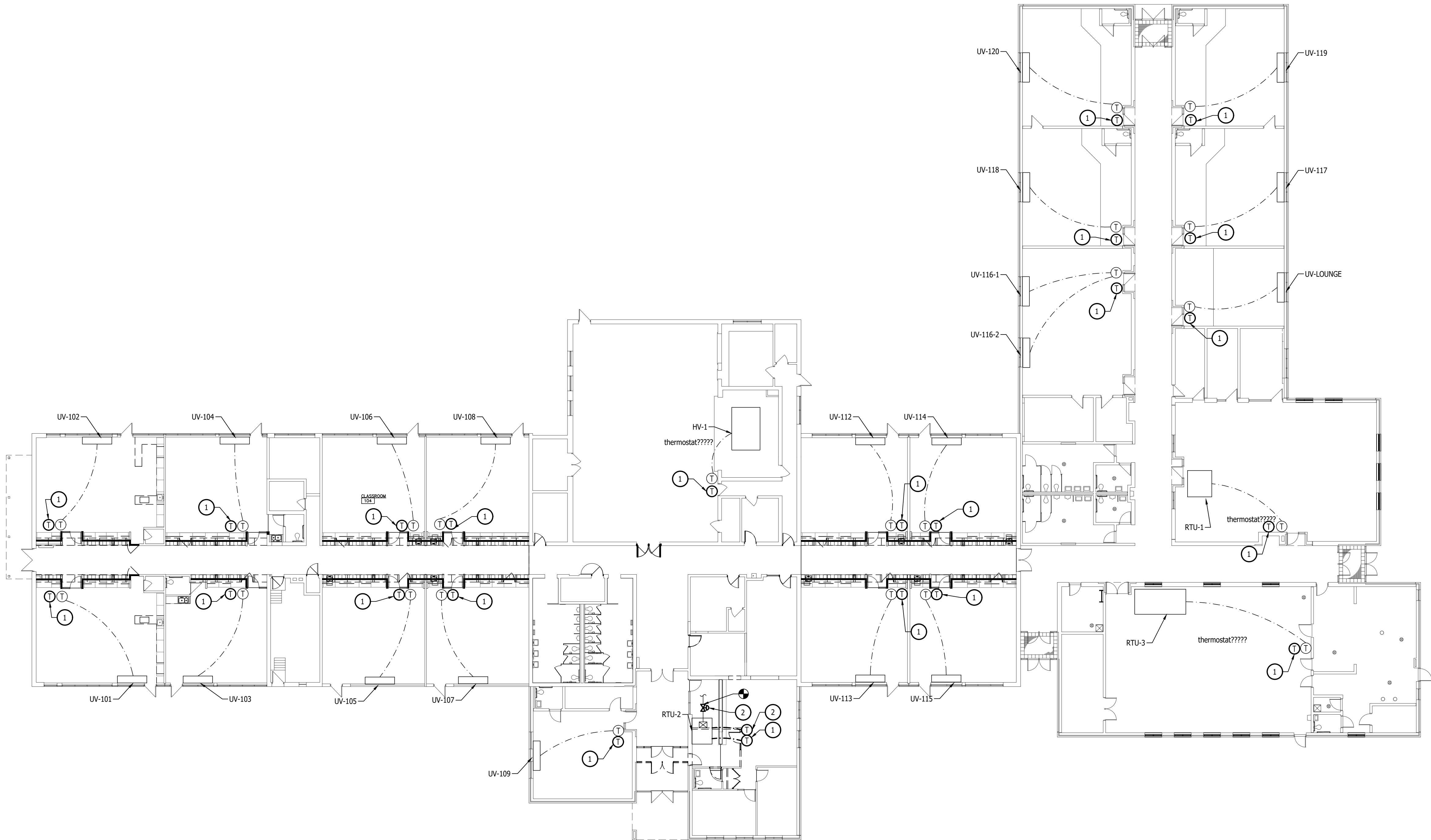


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LIST OF DRAWINGS

ARCHITECTURAL

M0.00	MECHANICAL GENERAL INFORMATION
M1.10	MECHANICAL HVAC COMPOSITE NEW WORK PLAN
M8.00	TEMPERATURE CONTROLS
M8.01	TEMPERATURE CONTROLS



 MECHANICAL HVAC COMPOSITE NEW WORK PLAN
SCALE: 1/16" = 1'-0"

HVAC GENERAL NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EXECUTE ALL HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLICABLE CODES INCLUDING AMENDMENTS, BULLETINS, ETC. AS WELL AS THE STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
B	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD. IN ACCORDANCE WITH ALTERNATES OF OPTIONS AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEMS ARE TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION WHEN PROJECT IS DELIVERED TO THE OWNER.
C	THE CONTRACTOR AND EACH SUBCONTRACTOR COVENANTS AND AGREES TO INDemnIFY, DEFEND, AND HOLD HARMLESS THE CONSULTING ENGINEER, ARCHITECT, AND OWNER FROM AND AGAINST ANY LIABILITY, LOSS, DAMAGE, OR EXPENSE INCLUDING ATTORNEYS ARISING FROM A FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRACTOR, SUBCONTRACTORS, AND THEIR AGENTS/EMPLOYEES PROPERLY TO DISCHARGE THE OBLIGATIONS ASSUMED BY HIM/HER IN THE PERFORMANCE OF THE WORK, INCLUDING ANY ACT OR OMISSION ALLEGEDLY RESULTING IN DEATH, PERSONAL INJURY, PROPERTY DAMAGE, OR IMPROPER CONSTRUCTION PROTOCOL.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILE NECESSARY FORMS, PAY ALL INSPECTION FEES.
E	CONTRACTOR TO EXAMINE ALL ADJOINING WORK BEFORE COMMENCEMENT OF HIS/HER SCOPE OF WORK. REPORT ANY DISCREPANCIES TO THE CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL. COORDINATE ALL WORK WITH OTHER TRADES TO ENSURE THAT INSTALLATION IS MADE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
F	PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT, DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
G	CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS.
H	FURNISH ADEQUATE LIABILITY INSURANCE AND BONDING DOCUMENTS AS REQUIRED BY THE OWNER.
J	NEW BACNET COMMUNICATIONS TO BE INSTALLED IN PARALLEL THRU EXISTING CEILING GRID. CONTRACTOR TO REPAIR/REPLACE ALL BROKEN CEILING TILES.

NEW WORK KEYED NOTES	
1	ALTERNATE M1: EXISTING PNEUMATIC THERMOSTAT TO REMAIN. INSTALL FLAT PLATE TEMPERATURE SENSOR ADJACENT TO EXISTING THERMOSTAT.
2	ALTERNATE M2: REPLACE PNEUMATIC 3-WAY CONTROL VALVE WITH NEW BACNET COMPATIBLE DEVICE. INSTALL NEW THERMOSTAT IN ADJACENT TO EXISTING PNEUMATIC DEVICE.

ISSUE DATE	ISSUED FOR
04/08/2022	BID DOCUMENTS
DRAWN	RPL
CHECKED	MPH
APPROVED	MPH



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PROJECT

Croswell-Lexington
Community Schools:
Frostick Elementary
HVAC Controls Upgrade

Croswell,
Michigan

SHEET

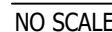
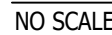
MECHANICAL HVAC
COMPOSITE NEW WORK
PLAN

PROJECT NUMBER

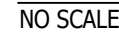
2022-017

SHEET NUMBER

M1.10



- NO SCALE



- TEMPERATURE (+/- 3°F BASED ON USER SETPOINT (ADJ.)

OUTSIDE AIR TEMP.	HHWS TEMPERATURE
$\geq 50^{\circ}\text{F}$	150°F
$< 25^{\circ}\text{F}$	180°F

ADDRESSES



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M8.00



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|------------|---------------|
| 04/08/2022 | BID DOCUMENTS |
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| DRAWN | RPL |
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Croswell,
Michigan