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# HCPS Jarrettsville ES Pre-K Expansion, Hickory ES Strive Suite, and Roye-Williams ES Sensory Room Project

Addendum # 01
April 1th, 2026

This addendum is to be included in the HCPS JVES, HIES and RWES BID drawings dated 03-27-2026. This addendum modifies and becomes part of the contract documents. Work and/or materials not specifically mentioned herein are to be as shown on the drawings and in the general notes.

Addendum #01 is the revised drawing sheets.

These items in the addendum have no specific order. All contractors are responsible for checking all items.

This addendum consists of 9 drawing sheets.

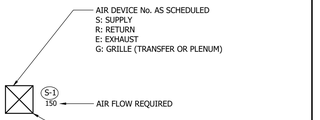
## List of revised drawing sheets for BID #: CAG 26-2 – Addendum 1

- Jarrettsville ES (JVES)
  - JM0.0
    - Revised line size for water closet
  - JM1.1
    - Revised notes for existing Mechanical systems
  - JM2.1
    - Revised pathing for CW and HW lines and added riser diagram
    - Revised notes for existing Mechanical systems
- Hickory ES (HIES)
  - HAD.2
    - Demolished additional ceiling mounted returns to coordinate with MEP drawings
  - HA1.2
    - Demolished additional ceiling mounted returns to coordinate with MEP drawings
    - Added ceiling mounted return to coordinate with MEP drawings
  - HM1.1
    - Revised note on existing plumbing tie-in
  - HM2.1
    - Revised notes on plumbing tie-in
    - Added domestic water and sanitary riser diagrams

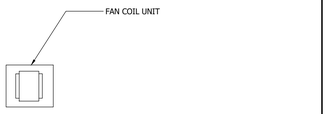
- HM3.1
  - Removed detail for sewage ejector pump
- HE2.1
  - Removed notes for electrical connection/tie-in for sewage ejector pump

## MECHANICAL EQUIPMENT IDENTIFICATION

### AIR DEVICE IDENTIFICATION




### FCU DUCTED UNIT IDENTIFICATION




## DRAIN CONNECTOR SCHEDULE

| DESIG | DRAIN LOCATION | SAN | VENT | DFU | REMARKS |
|---|---|---|---|---|---|
| FD-1 | FINISHED SPACE | 2",3",4" | 2" | - | ALL ARE EMERGENCY DRAINS |

## ELECTRIC WALL HEATER SCHEDULE

| NO. EWH-x | SERVICE | SUPPLY FAN | | | ELECTRICAL | | | | BASED ON |
|---|---|---|---|---|---|---|---|---|---|
| | | CFM | WATTS | RPM | EAT (°F) | CAP (MBH) | KW | VOLTS/PH/HZ | |
| 1 | RESTROOM A1-B | 100 | 5.3 | 1550 | 60 | 6.1 | 1.8 | 120/1/60 | INDEEDCO WCI |

## GENERAL MECHANICAL LEGEND

| SYMBOL | DEFINITION |
|---|---|
| Ø | DIAMETER |
| | CONNECT TO EXISTING |
| | DEMOLITION ENDS HERE |
| # | DRAWING NOTE DESIGNATION |
| | FLAT OVAL |
| | FAN SWITCH |
| | HUMIDISTAT |
| | TEMPERATURE SENSOR (NIGHT SETBACK) |
| | THERMOSTAT |
| | CARBON DIOXIDE SENSOR |
| | CARBON MONOXIDE SENSOR |
| N | NITROGEN SENSOR |
| | PART PLAN NUMBER |
| | SHEET NUMBER |
| | SECTION NUMBER |
| | DRAWING SECTION APPEAR ON |

## MECHANICAL DUCTWORK LEGEND

| SYMBOL | DEFINITION |
|---|---|
| | SUPPLY AIR DUCT UP, DOWN |
| | RETURN AIR DUCT UP, DOWN |
| | EXHAUST AIR DUCT UP, DOWN |
| | OUTSIDE AIR DUCT UP, DOWN |
| | RECT. TO ROUND TRANSITION |
| | FLEXIBLE CONNECTION (DUCTWORK) |
| | FLEXIBLE DUCT <AUTOCAD> |
| | FLEXIBLE DUCT <REVIT> |
| | VOLUME DAMPER |
| AIR MONITORING STATION | AIR MONITORING STATION |
| | SOUND ATTENUATOR |
| | ELBOW W/TURNING VANES |
| | RADIUS ELBOW |
| | ACOUSTICAL SOUND LINING |
| | DUCT TRANSITION |
| | CHANGE IN ELEVATION RISE(R), DROP(D) |
| | TRANSFER AIR GRILLE |
| | DOOR LOUVER |
| SP | STATIC PRESSURE SENSOR |

## LIFE SAFETY LEGEND

| SYMBOL | DEFINITION |
|---|---|
| | 1 HOUR FIREWALL |
| | 2 HOUR FIREWALL |
| | SMOKE PARTITION |
| | SMOKE BARRIER |
| | FIRE DAMPER |
| | MOTOR OPERATED DAMPER |
| | SMOKE DAMPER |
| | COMBINATION FIRE/SMOKE DAMPER |
| DD | DUCT SMOKE DETECTOR <AUTOCAD> |
| DD | DUCT SMOKE DETECTOR <REVIT> |

## MECHANICAL TERMINAL EQUIPMENT LEGEND

| SYMBOL | DEFINITION |
|---|---|
| | SINGLE DUCT VAV AIR TERMINAL UNIT W/ HEAT COIL |
| | VRF CEILING CASSETTE |
| | <VRFW>/<HP>/<FCU> WALL CASSETTE |
| | UNIT VENTILATOR |
| | HORIZONTAL <FCU>/<VRF>/<HP> |
| | VERTICAL <HP>/<FCU>/<VRFV> |
| | FAN POWERED VAV AIR TERMINAL UNIT W/HEAT COIL |
| | POWER ROOF VENTILATOR |

## MECHANICAL PIPING LEGEND

| SYMBOL | DEFINITION |
|---|---|
| CHS | CHILLED WATER SUPPLY |
| CHR | CHILLED WATER RETURN |
| CHS(P) | CHILLED WATER SUPPLY (PRIMARY) |
| CHS(S) | CHILLED WATER SUPPLY (SECONDARY) |
| CHR(P) | CHILLED WATER RETURN (PRIMARY) |
| CHR(S) | CHILLED WATER RETURN (SECONDARY) |
| CW | COLD WATER |
| HS | HEATING SUPPLY |
| HR | HEATING RETURN |
| HS(P) | HEATING SUPPLY (PRIMARY) |
| HS(S) | HEATING SUPPLY (SECONDARY) |
| HR(P) | HEATING RETURN (PRIMARY) |
| HR(S) | HEATING RETURN (SECONDARY) |
| HPWS | HEAT PUMP WATER SUPPLY |
| HPWR | HEAT PUMP WATER RETURN |
| DTS | DUAL TEMPERATURE WATER SUPPLY |
| DTR | DUAL TEMPERATURE WATER RETURN |
| GHPR | GEOTHERMAL HEAT PUMP RETURN |
| GHPS | GEOTHERMAL HEAT PUMP SUPPLY |
| CS | CONDENSER WATER SUPPLY |
| CR | CONDENSER WATER RETURN |
| CD | CONDENSATE DRAIN LINE |
| NPW | NON-POTABLE WATER |
| RL | REFRIGERANT LIQUID |
| RS | REFRIGERANT SUCTION |
| LPS | LOW PRESSURE STEAM |
| MPS | MEDIUM PRESSURE STEAM |
| HPS | HIGH PRESSURE STEAM |
| SC | STEAM CONDENSATE |
| F | FIRE LINE |
| SP | SPRINKLER PIPING |
| | FLOAT AND THERMOSTATIC TRAP |
| | PIPE ALIGNMENT GUIDE |
| | PIPE ANCHOR |
| | EXPANSION LOOP |
| X% | PITCH OF PIPE, % SLOPE |
| | PIPE-TURN DOWN |
| | PIPE-TURN UP |
| | PIPE DROP INTO |
| | PIPE TAP INTO BOTTOM |
| | 2-LINE PIPE DOWN |
| | 2-LINE PIPE UP |
| | SOLENOID VALVE |
| | END CAP |
| | BLIND FLANGE |
| | DIRECTION OF FLOW |
| | GATE VALVE |
| | GLOBE VALVE |
| | BALL VALVE |
| | BALANCING VALVE |
| | MULTI-PURPOSE VALVE |
| | CHECK VALVE |
| | BUTTERFLY VALVE |
| | 3-WAY MODULATING VALVE (ATC) |
| | 2-WAY MODULATING VALVE (ATC) |
| | PRESSURE REDUCING VALVE |
| | NEEDLE VALVE |
| | PRESSURE RELIEF OR SAFETY VALVE |
| | HOSE END DRAIN VALVE |
| | STRAINER W/HOSE END DRAIN VALVE & CAP |
| | AUTOMATIC AIR VENT |
| | FLOW METER FITTING |
| | COMBINATION SHUT-OFF/BALANCING VALVE |
| | UNION |
| | FLANGE |
| | CONCENTRIC REDUCER |
| | ECCENTRIC REDUCER |
| | FLEXIBLE CONNECTION (PIPING) |
| | MANUAL AIR VENT |
| | THERMOMETER |
| | PRESSURE GAUGE W/NEEDLE VALVE |
| | AUTOMATIC FLOW CONTROL VALVE |
| DPT | DIFFERENTIAL PRESSURE TRANSMITTER |

## MECHANICAL ABBREVIATIONS

| ABBREV | DESCRIPTION |
|---|---|
| A | AMPS |
| AAV | AUTOMATIC AIR VENT |
| ABR | ABOVE FINISHED ROOF |
| ACU | AIR CONDITIONING UNIT |
| ACV | AUTOMATIC CONTROL VALVE |
| AD | ACCESS DOOR |
| ADJ | ADJACENT/ADJUSTABLE |
| AFF | ABOVE FINISHED FLOOR |
| AMS | AIR FLOW MEASURING STATION |
| AHU | AIR HANDLING UNIT |
| ALT | ALTERNATE |
| ANC | ANCHOR |
| APD | AIR PRESSURE DROP |
| APG | AIR PRESSURE GAUGE |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECTURAL |
| AS | AIRFLOW SENSOR/AIR SEPARATOR |
| ATC | AUTOMATIC TEMPERATURE CONTROLS |
| AV | ACID VENT/AIR VENT |
| AVG | AVERAGE |
| AW | ACID WASTE |
| BAS | BUILDING AUTOMATION SYSTEM |
| BFP | BACKFLOW PREVENTOR |
| BHP | BRAKE HORSEPOWER |
| BLDG | BUILDING |
| BTU | BRITISH THERMAL UNIT |
| BTUH | BRITISH THERMAL UNIT PER HOUR |
| BWF | BYPASS WATERFILTER |
| BWV | BACK WATER VALVE |
| CAP | CAPACITY |
| CC | COOLING COIL |
| CD | CONDENSATE DRAIN |
| CFH | CUBIC FEET PER HOUR |
| CFM | CUBIC FEET PER MINUTE |
| CI | CAST IRON |
| CIP | CAST IRON PIPE |
| CIRC | CIRCULATING |
| CL | CENTERLINE |
| CLG | CEILING/COOLING |
| CO | CLEANOUT/CARBON MONOXIDE SENSOR |
| CO2 | CARBON DIOXIDE SENSOR |
| COMP | COMPRESSOR |
| COND | CONDENSATE/CONDENSER/CONDENSING |
| COP | COEFFICIENT OF PERFORMANCE |
| CPVC | CHLORINATED POLYVINYL CHLORIDE |
| CR | CONDENSER WATER RETURN |
| CS | CONDENSER WATER SUPPLY/CURRENT SENSOR |
| CT | COOLING TOWER |
| CV | CONSTANT VOLUME |
| CW | COLD WATER |
| CX | CONNECT TO EXISTING |
| D | DAMPER/DEEP/DIA/DIFFUSER/DRAIN/DROP/DISCHARGE |
| DB | DECIBEL/DRY BULB |
| DEG | DEGREES |
| DESIG | DESIGNATION |
| DIA | DIAMETER |
| DN | DOWN |
| DOAS | DEDICATED OUTSIDE AIR SYSTEM |
| DP | DEW POINT/DIFFERENTIAL PRESSURE |
| DPS | DIFFERENTIAL PRESSURE SWITCH/SENSOR |
| DSHP | DUCTLESS SPLIT HEAT PUMP |
| DSS | DUCTLESS SPLIT SYSTEM |
| DW | DISHWASHER |
| DWC | DRINKING WATER COOLER |
| DWG | DRAWING |
| DWGS | DRAWINGS |
| DWH | DOMESTIC WATER HEATER |
| E | EAST/ELECTRICAL |
| EA | EACH/EXHAUST AIR |
| EAF | EXHAUST AIR FAN |
| EAT | ENTERING AIR TEMPERATURE |
| EER | ENERGY EFFICIENCY RATIO |
| EF | EXHAUST FAN |
| EFF | EFFICIENCY |
| EFT | ENTERING FLUID TEMPERATURE |
| EL | ELEVATION |
| ELEC | ELECTRIC/ELECTRICAL |
| ELEV | ELEVATION/ELEVATOR |
| EMER | EMERGENCY |
| EMS | ENERGY MANAGEMENT SYSTEM |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| ES | EMERGENCY STATION |
| ESP | EXTERNAL STATIC PRESSURE |
| ESS | EMERGENCY SHUTDOWN SWITCH |
| ET | EXPANSION TANK |
| ETR | EXISTING TO REMAIN |
| EVAP | EVAPORATOR |
| EWT | ENTERING WATER TEMPERATURE |
| EX | EXISTING |
| EXH | EXHAUST |
| EXP | EXPANSION |
| EXT | EXTERIOR |
| EWC | ELECTRIC WATER COOLER |
| F | FAHRENHEIT/FAN/FIRE/FIRE LINE/FREEZESTAT |
| FA | FACE AREA/FREE AREA |
| FC | FLEXIBLE CONNECTION |
| FCO | FLOOR CLEANOUT |
| FCU | FAN COIL UNIT |
| FD | FIRE DAMPER |
| FDV | FIRE DEPARTMENT VALVE |
| FF | FINISHED FLOOR |
| FFC | FIELD FABRICATED CASING |
| FLA | FULL LOAD AMPS |
| FLR | FLOOR |
| FM | FLOW METER/FACTORY MUTUAL GLOBAL |
| FOB | FLAT ON BOTTOM |
| FOR | FUEL OIL RETURN |
| FOS | FUEL OIL SUPPLY |
| FPD | FLUID PRESSURE DROP |
| FPM | FEET PER MINUTE |
| FS | FLOW SWITCH |
| FT | FEET/FOOT |
| FV | FACE VELOCITY |
| G | GAS/GRILLE |
| GA | GAUGE |
| GAL | GALLON |
| GALV | GALVANIZED |
| GI | GREASE INTERCEPTOR |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| GR | GRADE |
| GRD | GREASE RECOVERY DEVICE |
| GSV | GAS SOLENOID EMERGENCY SHUTOFF VALVE |
| GV | GREASE VENT |
| GW | GREASE WASTE |
| H | HEIGHT/HIGH/HUMIDITY SENSOR |
| HB | HOSE BIBB |
| HC | HEATING COIL |
| HD | HEAD |
| HOA | HAND-OFF-AUTOMATIC SWITCH |
| HP | HIGH PRESSURE/HORSEPOWER |
| HR | HOT WATER HEATING RETURN/HOUR |
| HS | HOT WATER HEATING SUPPLY /HIGH SCHOOL |
| HTG | HEATING |
| HVAC | HEATING, VENTILATING, AND AIR CONDITIONING |
| HW | HOT WATER |
| HWG | HOT WATER GENERATOR |

## MECHANICAL ABBREVIATIONS

| ABBREV | DESCRIPTION |
|---|---|
| HWR | HOT WATER RETURN |
| HZ | HERTZ |
| IN | INCH/INCHES |
| INSUL | INSULATION/INSULATED |
| INT | INTERIOR |
| INV | INVERT |
| IPLV | INTEGRATED PART LOAD VALUE |
| IPS | IRON PIPE SIZE |
| IT | INFORMATION TECHNOLOGY |
| IW | INDIRECT WASTE |
| K | KITCHEN EQUIPMENT TYPE |
| KW | KILOWATT |
| L | LENGTH |
| LAT | LEAVING AIR TEMPERATURE |
| LAV | LAVATORY |
| LFT | LEAVING FLUID TEMPERATURE |
| LRA | LOCKED ROTOR AMPS |
| LW | LABORTORY WASTE |
| LWT | LEAVING WATER TEMPERATURE |
| M | MECHANICAL |
| MAX | MAXIMUM |
| MBH | THOUSAND BTU PER HOUR |
| MCA | MINIMUM CIRCUIT AMPS |
| MCC | MOTOR CONTROL CENTER |
| MECH | MECHANICAL |
| MER | MECHANICAL EQUIPMENT ROOM |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MOCP | MAXIMUM OVERCURRENT PROTECTION |
| MOD | MOTOR-OPERATED DAMPER |
| MS | MIDDLE SCHOOL |
| MTD | MOUNTED |
| MTG | MOUNTING |
| MV | MIXING VALVE |
| N | NORTH |
| N/A | NOT APPLICIBLE |
| NC | NOISE CRITERIA/NORMALLY CLOSED |
| NFWH | NON-FREEZE WATER HYDRANT |
| NIC | NOT IN CONTRACT |
| NO | NORMALLY OPEN/NUMBER |
| NOM | NOMINAL |
| NPLV | NON-STANDARD PART LOAD VALUE |
| NPSH | NET POSITIVE SUCTION HEAD |
| NPSHA | NET POSITIVE SUCTION HEAD AVAILABLE |
| NPSHR | NET POSITIVE SUCTION HEAD REQUIRED |
| NPW | NON-POTABLE WATER |
| NTS | NOT TO SCALE |
| OA | OUTDOOR AIR |
| OC | ON CENTER |
| OED | OPEN-END DUCT |
| OH | OVERHEAD |
| OPER | OPERATING/OPERATOR |
| OPP | OPPOSITE |
| P | PIPE/PLUMBING FIXTURE TYPE/PRESSURE |
| PD | PRESSURE DROP/PUMP DISCHARGE |
| PH | PHASE |
| PHC | PREHEAT COIL |
| PL | PLATE/PILOT LIGHT |
| PPM | PARTS PER MILLION |
| PRV | PRESSURE REDUCING VALVE |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | PRESSURE-POUNDS PER SQUARE INCH |
| PSIG | PRESSURE-POUNDS PER SQUARE INCH, GAGE |
| PVC | POLYVINYL CHLORIDE |
| R | RADIUS/REFRIGERANT/REGISTER/RISE/RISER |
| RA | RETURN AIR |
| RAD | RADIUS |
| RAF | RETURN AIR FAN |
| REFRIG | REFRIGERANT/REFRIGERATION |
| REG | REGISTER/REGULATOR |
| REQD | REQUIRED |
| RET | RETURN |
| RH | REHEAT/RELATIVE HUMIDITY |
| RHC | REHEAT COIL |
| RL | RAIN LEADER/REFRIGERANT LIQUID |
| RLA | RUNNING LOAD AMPS |
| RM | ROOM |
| RPBP | REDUCED PRESSURE BACKFLOW PREVENTOR |
| RPM | REVOLUTIONS PER MINUTE |
| RS | REFRIGERANT SENSOR/REFRIGERANT SUCTION |
| RV | RELIEF VALVE |
| RX | REMOVE EXISTING |
| S | SANITARY/SOIL/SOUTH/SWITCH/SUCTION |
| SA | SOUND ATTENUATOR/SUPPLY AIR |
| SAF | SUPPLY AIR FAN |
| SD | SINGLE DUCT/SMOKE DAMPER/SMOKE DETECTOR |
| SEER | SEASONAL ENERGY EFFICIENCY RATIO |
| SENS | SENSIBLE COOLING |
| SF | SQUARE FEET/SQUARE FOOT |
| SH | SHOWER |
| SHGC | SOLAR HEAT GAIN COEFFICIENT |
| SHR | SENSIBLE HEAT RATIO |
| SP | SPRINKLER PIPING/STATIC PRESSURE SENSOR |
| SQ | SQUARE |
| SS | SERVICE SINK/STAINLESS STEEL |
| SST | SATURATION SUCTION TEMPERATURE |
| STD | STANDARD |
| STL | STEEL |
| SW | STORM WATER |
| T | TEMPERATURE SENSOR |
| TAO | TRANSFER AIR OPENING |
| TD | TRENCH DRAIN |
| TEMP | TEMPERATURE/TEMPORARY |
| TOT | TOTAL |
| TP | TOTAL PRESSURE |
| TSP | TOTAL STATIC PRESSURE |
| TYP | TYPICAL |
| UH | UNIT HEATER |
| UR | URINAL |
| UTE | UNEQUAL THROAT ELBOW |
| UV | ULTRA VIOLET/UNIT VENTILATOR |
| V | VACUUM/VALVE/VENT/VOLTS |
| VAV | VARIABLE AIR VOLUME |
| VD | VOLUME DAMPER |
| VEL | VELOCITY |
| VERT | VERTICAL |
| VFD | VARIABLE FREQUENCY DRIVE |
| VOL | VOLUME |
| VR | VOLUME REGULATOR |
| VRF | VARIABLE REFRIGERANT FLOW |
| VRFC | VARIABLE REFRIGERANT FLOW CASSETTE |
| VRFW | VARIABLE REFRIGERANT FLOW WALL UNIT |
| VRFV | VARIABLE REFRIGERANT FLOW VERTICAL UNIT |
| VSD | VARIABLE SPEED DRIVE |
| VTR | VENT THROUGH ROOF |
| VV | VAPOR VENT |
| W | WASTE/WATER/WATTS/WEST/WIDTH |
| XFMR | TRANSFORMER |
| WB | WET BULB |
| WC | WATER CLOSET/WATER COLUMN/WHEELCHAIR ACCESSIBLE |
| WG | WATER GAGE |
| WH | WALL HYDRANT/WATER HEATER |
| WPD | WATER PRESSURE DROP |
| WT | WEIGHT |
| WTV | WATER TEMPERING VALVE |

## GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL STATE, COUNTY AND LOCAL CODES, REGULATIONS AND ORDINANCES. MATERIAL, EQUIPMENT, INSTALLATION, AND PROCEDURES SHALL BE IN STRICT ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE LATEST CURRENT EDITION OF THE REFERENCED DOCUMENTATION.
   A. REGULATIONS OF LOCAL AUTHORITIES HAVING JURISDICTION.
   B. NFPA-NATIONAL FIRE PROTECTION ASSOCIATION.
   C. SMACNA - SHEET METAL AND AIR CONDITIONING NATIONAL ASSOCIATION.
   D. ASME - AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
   E. ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS.
   F. ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS, INC. LATEST EDITION OF STANDARD 15.
   G. ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS, INC. LATEST EDITION OF STANDARD 55.
   H. ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS, INC. LATEST EDITION OF STANDARD 62.1. - 2007 (LEED COMPLIANCE), 2013 CODE COMPLIANCE.
   I. ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS, INC. LATEST EDITION OF STANDARD 90.1. - 2007 (LEED COMPLIANCE), 2013 CODE COMPLIANCE.
   J. INTERNATIONAL BUILDING CODE - 2021.
   K. INTERNATIONAL ENERGY CONSERVATION CODE - 2021.
   L. INTERNATIONAL EXISTING BUILDING CODE - 2021.
   M. INTERNATIONAL FUEL GAS CODE - 2021.
   N. INTERNATIONAL MECHANICAL CODE - 2021.
   O. INTERNATIONAL PLUMBING CODE - 2021.
   P. SMACNA - SHEET METAL AND AIR CONDITIONING NATION ASSOCIATION.
   Q. NATIONAL ELECTRICAL CODE - 2020.
   R. STATE OF MARYLAND ACCESSIBILITY CODE, COMAR 09.12.53.
2. CONTRACTORS SHALL BE RESPONSIBLE TO VERIFY AND FAMILIARIZE THEMSELVES WITH ACTUAL FIELD CONDITIONS ASSOCIATED WITH WORK UNDER THIS CONTRACT PRIOR TO SUBMITTING THEIR BID.
3. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. REPAIR ALL DAMAGES OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
4. ELEVATIONS NOTED ARE TO CENTER LINES OF PIPES FOR ALL PRESSURE LINES AND TO INVERT FOR ALL GRAVITY FLOW LINES.
5. MAINTAIN MINIMUM OF 3'-0" COVER OVER UNDERGROUND WATER MAINS.
6. UNLESS OTHERWISE NOTED, ALL PIPING AND DUCTWORK IS OVERHEAD, TIGHT TO UNDERSIDE OF SLAB AND STRUCTURE, WITH SPACE FOR INSULATION, IF REQUIRED.
7. INSTALL PIPING AND DUCTWORK SO THAT ALL VALVES AND DAMPERS ARE ACCESSIBLE.
8. COORDINATE ALL MECHANICAL WORK WITH OTHER TRADES INCLUDING BUT NOT LIMITED TO PLUMBING WORK, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, KITCHEN, CIVIL, AND ARCHITECTURAL WORK ETC., SHOWN ON OTHER DRAWINGS.
9. EXCEPT AS OTHERWISE SHOWN, LOCATE ALL ROOM THERMOSTATS 3'-10" (CENTERLINE) ABOVE FINISHED FLOOR ON THE HORIZONTAL CENTERLINE OF THE ROOM LIGHT SWITCH. NOTIFY THE ENGINEER OF ANY ROOMS WHERE THE ABOVE LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.
10. MAINTAIN MINIMUM 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUIT, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL AND ELECTRICAL ROOMS.
11. CERTAIN ITEMS SUCH AS CLEAN-OUTS, ACCESS DOORS, RISES AND DROPS IN DUCTWORK AND PIPING, ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY ON A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR SUCH ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS.
12. EQUIPMENT CONNECTION SIZES MAY DIFFER FROM INDICATED DUCT OR PIPE SIZES. PROVIDE APPROPRIATE TRANSITIONS WHERE REQUIRED.
13. THE DRAWINGS ARE DIAGRAMMATIC AND ALL OFFSETS, FITTINGS, TRANSITIONS AND ACCESSORIES ARE NOT NECESSARILY SHOWN. COORDINATE THE INSTALLATION OF ALL PIPING, DUCTWORK, EQUIPMENT AND OTHER WORK WITH ALL OTHER TRADES.
14. IT IS THE INTENT THAT ALL WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT MATERIAL OR WORK SPECIFICALLY NOT INDICATED ON THE DRAWINGS, BUT NECESSARY TO COMPLETE THE WORK, SHALL BE PROVIDED.
15. EXACT LOCATION OF DIFFUSERS, REGISTERS, AND GRILLES IN THE CEILING SHALL BE COORDINATED WITH REFLECTED CEILING PLANS.
16. REFER TO AIR DEVICE SCHEDULES FOR SIZE OF DUCT FROM BRANCH DUCT TO NECK OF AIR DEVICE. IF NOT INDICATED THE DUCT RUNOUT SIZE SHALL EQUAL THE AIR DEVICE NECK SIZE.
17. ALL BRANCH DUCTS INCLUDING RUN-OUTS TO AIR DEVICES SHALL BE PROVIDED WITH VOLUME DAMPERS. DO NOT PROVIDE VOLUME DAMPERS IN SUPPLY AIR DUCTS UPSTREAM OF AIR TERMINAL UNITS. THOSE INDICATED ON THE DRAWINGS ARE INDICATED DUE TO A SPECIFIC PHYSICAL LOCATION REQUIREMENT.
18. ALL AUTOMATIC TEMPERATURE CONTROL SETPOINTS SHALL BE ADJUSTABLE.
19. PROVIDE A MINIMUM OF 36-INCHES OF CLEARANCE TO ALL EQUIPMENT THE ELECTRICAL COMPONENT LOCATIONS.
20. CONTRACTOR IS PROHIBITED FROM ATTACHING TO THE ROOF DECK AND LOWER CHORD OF JOISTS AS A SUPPORT SYSTEM FOR DEVICES AND BUILDING SYSTEMS.
21. CONTRACTOR SHALL REPAIR ALL PENETRATION HOLES IN WALLS, FLOORS, CEILINGS AND ROOF AS A RESULT OF DEMOLITION WORK. REPAIRS SHALL MATCH ADJACENT CONSTRUCTION.
22. PROVIDE ALL NECESSARY COMPONENTS FOR U.L. LISTED THROUGH PENETRATION SYSTEM AT RATED FLOORS, CEILING AND WALL PENETRATIONS IN ORDER TO MAINTAIN THE REQUIRED ASSEMBLY RATING. REFER TO ARCHITECTURAL DRAWINGS FOR RATED ASSEMBLY LOCATIONS AND CONSTRUCTION.

## AUTOMATIC TEMPERATURE CONTROLS

1. ALL WORK SHALL BE PERFORMED BY JOHNSON CONTROLS, INC.
2. ALL COMPONENTS ON THE CONTROL DIAGRAMS SHALL HAVE THE POINTS AND GRAPHICS INTEGRATED INTO THE EXISTING BAS SYSTEM OF THE BUILDING.
3. PROVIDE FULL SUBMITTAL TO ENGINEER FOR WORK TO BE COMPLETED.
4. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH NEC-2020 AND IT SHALL BE INSTALLED IN CONDUIT.
5. ALL POWER SHALL BE OBTAINED FROM THE NEAREST AVAILABLE PANEL.
6. PROVIDE A FULL TURN-KEY DESIGN AND INSTALLATION.

## PLUMBING FIXTURE SCHEDULE

| No. | FIXTURE | ROUGH-IN CONNECTION | | | | FIXTURE UNIT VALUES | | | FLOW RATE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | CW | HW | SAN | VENT | CW | HW | SAN | | |
| P-1 | WATER CLOSET | 1-1/4" | - | 4" | 2" | 10 | - | 6 | 1.6 GPF | WALL HUNG |
| P-2 | LAVATORY | 1/2 | 1/2" | 1-1/2" | 1-1/2" | 1.5 | 1.5 | 1 | 1.0 GPM | WALL HUNG |

## FAN SCHEDULE

| F- | ROOM SERVED | LOCATION | CHARACTERISTICS | | | | | V/ø/Hz | REMARKS | BASIS OF DESIGN (GREENHECK) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | MAX CFM | ESP (IN H2O) | FRPM | MOTOR W | MOTOR TYPE | | | |
| 1 | A1-B - RESTROOM | ROOF | 75 | 0.4 | 772 | 80 | DIRECT | 115/1/60 | | SP-B110 |

NOTES: 1. TSTAT=THERMOSTAT; SW=SWITCH; SP=STATIC PRESSURE, TD =WITH 15 MINUTES TIME DELAY
2. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH FOR ALL EXHAUST FANS. COORDINATE REQUIREMENTS AND INTERLOCKS WITH ELECTRICAL
3. REFER TO CONTROL DIAGRAMS FOR SPECIFIC SEQUENCES OF OPERATION AND INTERLOIOX ARRANGEMENTS

REVISIONS

| REV# | DATE | DESCRIPTION |
|---|---|---|
| 1 | 4/1/26 | Addendum NO. 1 |


Gipe Associates Inc.
Consulting Engineers
1220 East Joppa Road
Suite 223
Towson, MD. 21286
Phone: 410.832.2600
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8719 Brooke Drive
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Easton, Maryland 21601
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Fax: 410.822.6306


CLIENT: HARFORD COUNTY PUBLIC SCHOOLS (HCPS)
102 SOUTH HICKORY AVE, BEL AIR, MD 21014

ABBREVIATIONS, GENERAL NOTES, LEGEND, & SCHEDULE

HCPS JVES STRIVE RENOVATION

3818 NORRISVILLE RD, JARRETTSVILLE, MD 21014

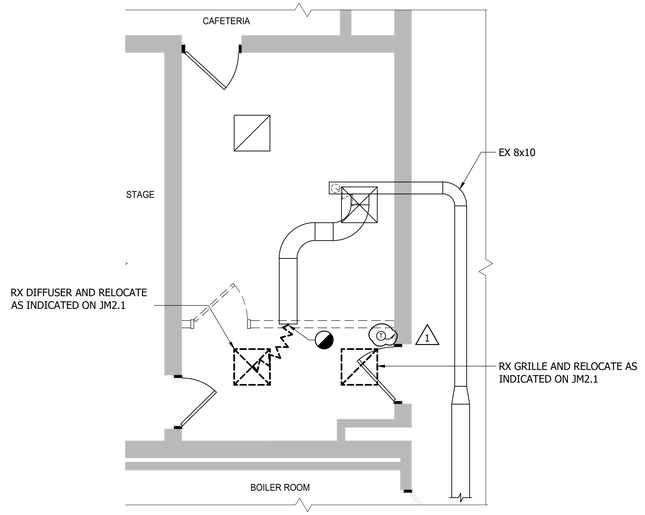
STATE OF MARYLAND · MICHAEL NOTARANTONIO · No. 35222 · PROFESSIONAL ENGINEER

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: 35222
EXPIRATION DATE: 01/05/2028

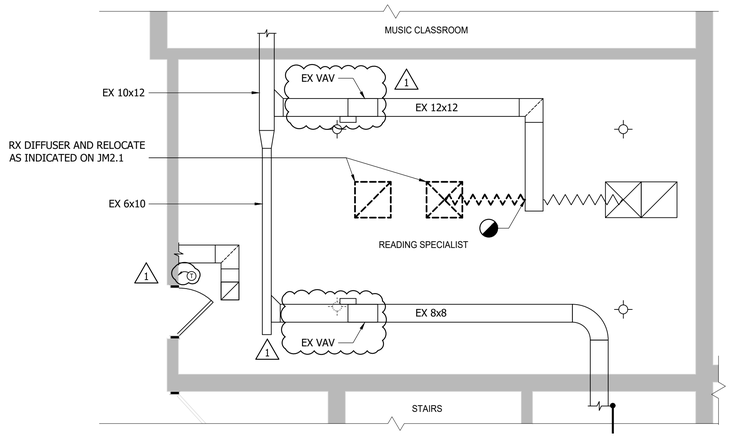
| | |
|---|---|
| DATE: 03.24.2026 | DRAWING NO: JM0.0 |
| SCALE: AS NOTED | |
| DRAWN BY: --- | |
| CHECKED BY: SED | FWA JOB NUMBER 2251187.00 |

## GENERAL NOTES

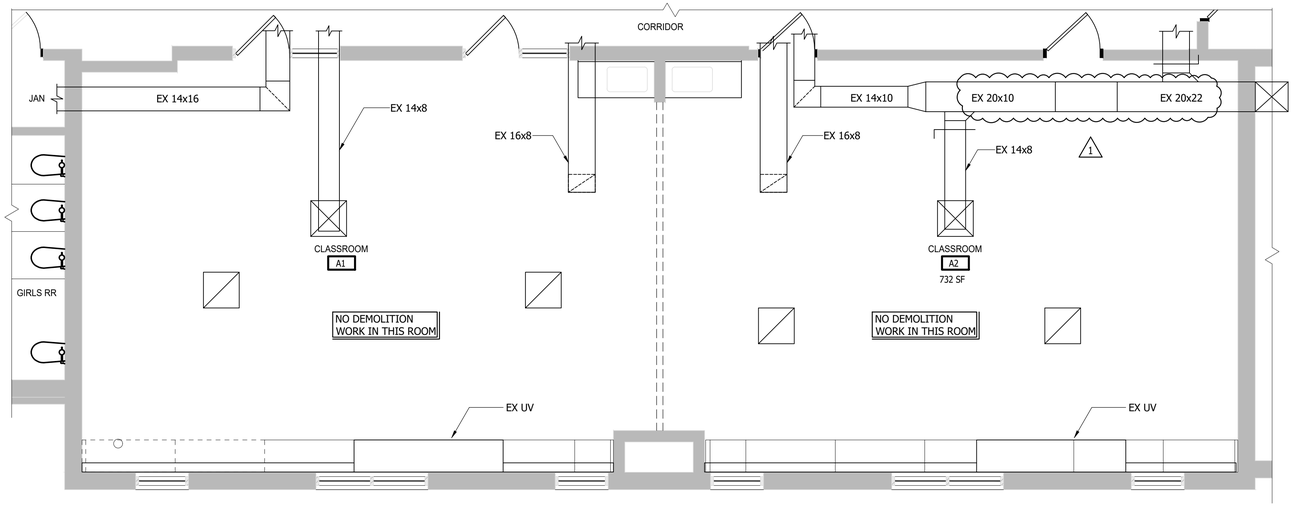
1. EX IS INDICATED IN LIGHT/THIN LINES.
2. DEMOLITION WORK IS INDICATED IN DARKER/THICKER LINES.
3. HVAC UNITS AND AIR DEVICES SHALL BE BALANCED TO THE AIR FLOW INDICATED.



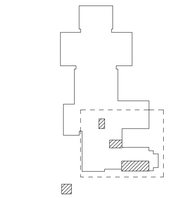

1 / JM1.2 FLOOR PLAN - OFFICE & WAITING AREA - DEMOLITION
SCALE: 1/4" = 1'-0"




2 / JM1.2 FLOOR PLAN - ART CLASSROOM - DEMOLITION
SCALE: 1/4" = 1'-0"




3 / JM1.2 FLOOR PLAN - CLASSROOM A1 & A2 - DEMOLITION
SCALE: 1/4" = 1'-0"



SCALE: 1/4" = 1'-0"
4 0 4 8

REVISIONS

| REV# | DATE | DESCRIPTION |
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| 1 | 4/1/26 | Addendum NO. 1 |


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CLIENT:
HARFORD COUNTY PUBLIC SCHOOLS (HCPS)
102 SOUTH HICKORY AVE, BEL AIR, MD 21014

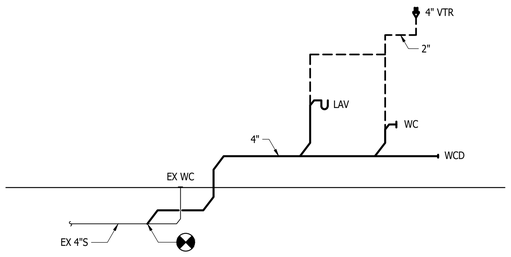
FLOOR PLAN - MECHANICAL - DEMOLITION

HCPS JVES STRIVE RENOVATION
3818 NORRISVILLE RD, JARRETTSVILLE, MD 21014

STATE OF MARYLAND
STEPHEN E. DIMMEL, NOTARY
No. 35227
PROFESSIONAL ENGINEER

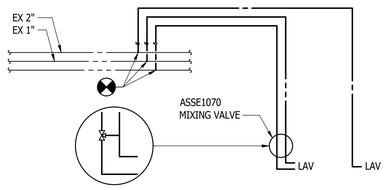
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: 35222
EXPIRATION DATE: 01/05/2028

| | |
|---|---|
| DATE: 03.24.2026 | DRAWING NO: JM1.1 |
| SCALE: AS NOTED | |
| DRAWN BY: --- | |
| CHECKED BY: SED | FWA JOB NUMBER 2251187.00 |



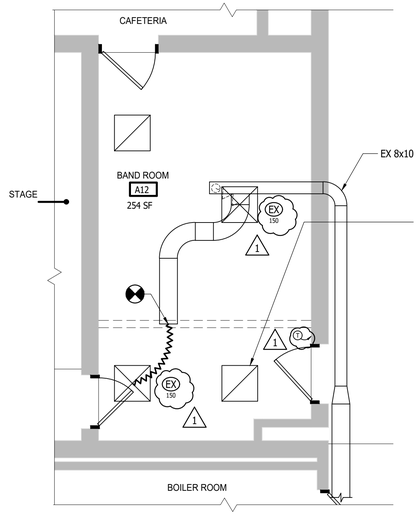

## SANITARY/VENT RISER DIAGRAM

NOT TO SCALE



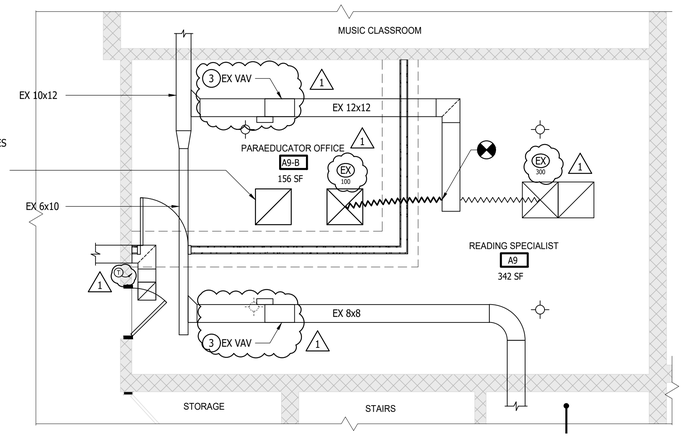

## DOMESTIC WATER RISER DIAGRAM

NOT TO SCALE




1 / JM1.2 FLOOR PLAN - OFFICE & WAITING AREA - NEW WORK

SCALE: 1/4" = 1'-0"




2 / JM1.2 FLOOR PLAN - ART CLASSROOM - NEW WORK

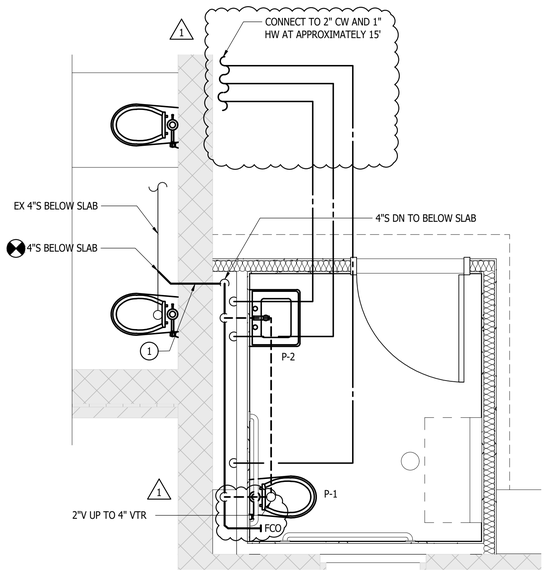
SCALE: 1/4" = 1'-0"

## GENERAL NOTES

1. EX IS INDICATED IN LIGHT/THIN LINES.
2. NEW WORK IS INDICATED IN DARKER/THICKER LINES.
3. HVAC UNITS AND AIR DEVICES SHALL BE BALANCED TO THE AIR FLOW INDICATED.

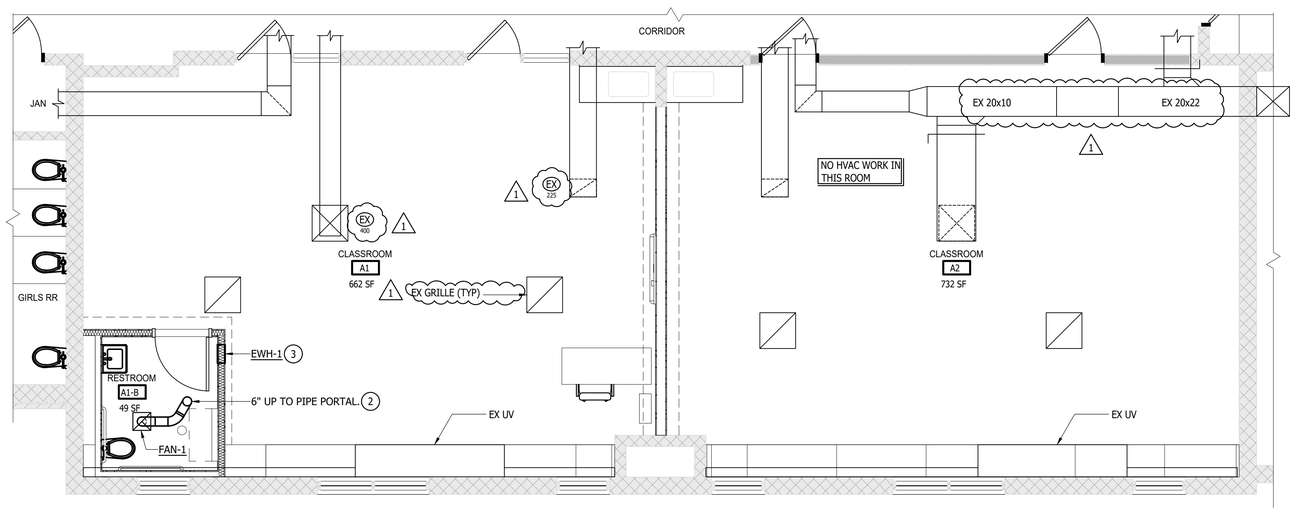
## DRAWING NOTES

1. INSTALL 4"S BELOW SLAB. CUT AND EXCAVATE TO INSTALL PIPE. BACK FILL AND POUR NEW SLAB WITH FINISHES TO MATCH EXISTING.
2. PROVIDE PIPE PORTAL ON ROOF. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. PROVIDE ALL ROOFING MATERIAL FOR A COMPLETE WATER-TIGHT INSTALLATION.
3. REBALANCE EX VAV BOX TO CFM INDICATED. 1




## FLOOR PLAN - PLUMBING - NEW WORK

SCALE: 1/2" = 1'-0"




3 / JM1.2 FLOOR PLAN - CLASSROOM A1 & A2 - NEW WORK

SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"

4 0 4 8

| REVISIONS | | | |
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| REV# | DATE | DESCRIPTION |
| 1 | 4/1/26 | Addendum NO. 1 |


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Fax: 410.822.6306


CLIENT:
HARFORD COUNTY PUBLIC SCHOOLS (HCPS)
102 SOUTH HICKORY AVE, BEL AIR, MD 21014

FLOOR PLAN - MECHANICAL - NEW WORK

HCPS JVES STRIVE RENOVATION

3818 NORRISVILLE RD, JARRETTSVILLE, MD 21014

STATE OF MARYLAND
MICHAEL NOTARANGELO
No. 35222
PROFESSIONAL ENGINEER

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: 35222
EXPIRATION DATE: 01/05/2028

| DATE: | DRAWING NO: |
|---|---|
| 03.24.2026 | JM2.1 |
| SCALE: AS NOTED | |
| DRAWN BY: --- | |
| CHECKED BY: SED | FWA JOB NUMBER 2251187.00 |

## KEYNOTES - DEMOLITION - RCP

1 REMOVE EXISTING ACT CEILING AND ALL ASSOCIATED APPURTENANCES IN THEIR ENTIRETY. PREPARE AREA TO RECEIVE NEW CEILING FINISH. EXISTING LIGHT FIXTURES TO BE SALVAGED AND STORED AT OWNERS APPROVED LOCATION FOR INSTALLATION DURING NEW WORK PHASE.

2 ANY MISC. CEILING MOUNTED ITEMS TO BE REMOVED TO ACCOMMODATE NEW WORK SHALL BE TURNED OVER TO OWNER FOLLOWING DEMOLITION PHASE OR STORED AND MADE READY FOR INSTALLATION

3 REMOVE EXISTING BULKHEAD AND CEILING IN THEIR ENTIRETY. PREPARE AREA TO RECEIVE NEW CEILING FINISH.

4 EXISTING CEILING FINISH AND ASSOCIATED ITEMS TO REMAIN. PROTECT-IN-PLACE DURING CONSTRUCTION PHASE.

## GENERAL DEMOLITION NOTES

A DEMOLITION PLAN IS NOT ALL INCLUSIVE. ADDITIONAL DEMOLITION WORK MAY BE REQUIRED FOR INSTALLING NEW WORK.

B IN AREAS OR ROOMS WHERE ARCHITECTURAL DEMOLITION IS NOT INDICATED AND MPE IS REQUIRED, REMOVE AND REPAIR ANY ITEMS TO ACCOMODATE WORK REQUIRED AND RESTORE AREA TO ORIGINAL CONDITION BEFORE WORK PROCEEDS.

C PROTECT FROM THE ELEMENTS ALL EXISTING CONDITIONS THAT ARE TO REMAIN, AS NECESSARY, DURING DEMOLITION PHASE OF CONSTRUCTION, REPAIR ALL DAMAGE PROMPTLY TO ORIGINAL CONDITION.

D DEMOLITION SHALL INCLUDE ANY REMOVAL OF EXISTING MATERIALS TO MAKE PROVISION FOR NEW FINISHES.

E THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL EXISTING CONDITIONS. THE ARCHITECT IS TO BE NOTIFIED OF ANY DISCREPANCIES AND ANY DISCREPANCIES RECTIFIED BEFORE WORK IS RESUMED.

F ALL STRUCTURAL ITEMS THAT SEEM TO BE SUSPECT FOR REPLACEMENT SHALL BE INSPECTED BY THE PROJECT ARCHITECT TO DETERMINE IF THEY SHOULD BE REPLACED. ALL STRUCTURAL ITEMS THAT ARE DAMAGED AND NEED REPLACING WILL BE TAGGED BY THE STRUCTURAL ENGINEER AND REPLACED BY THE CONTRACTOR BEFORE ANY OTHER WORK BEGINS.

G ALL DEMOLITION WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE NOISE, DUST AND DISTURBANCE TO THE OWNER.

H THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES ALL EXISTING SMOKE AND FIRE PROTECTION SYSTEMS.

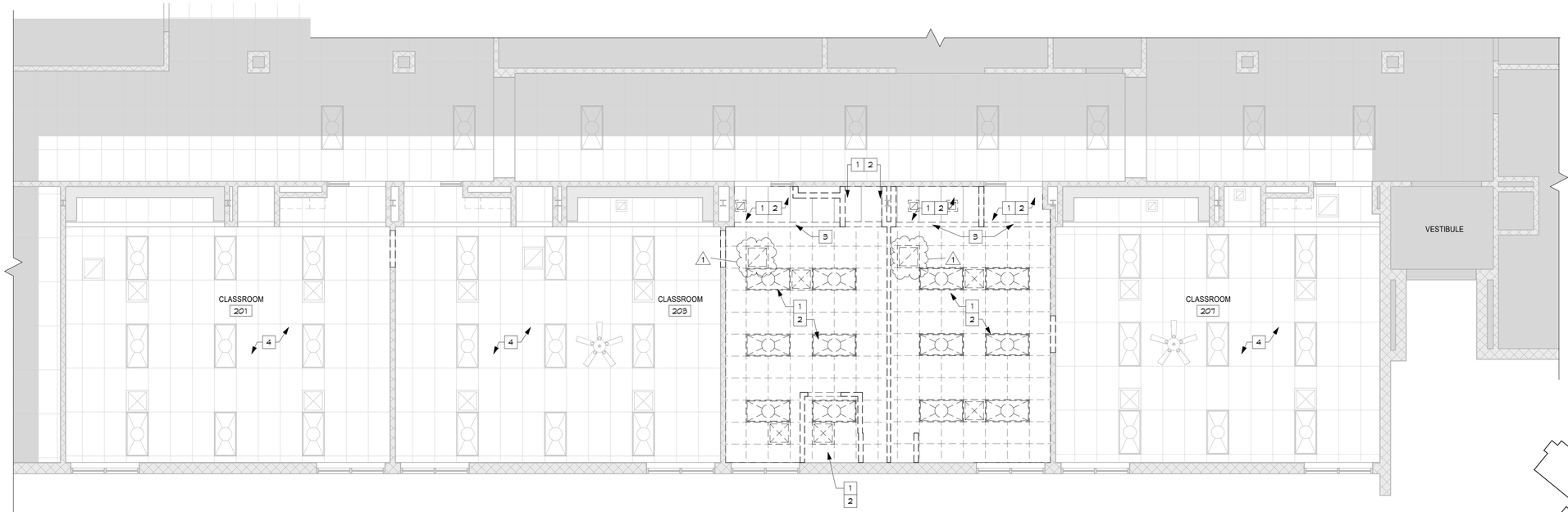
I THE CONTRACTOR SHALL AT ALL TIMES KEEP ALL EXISTING ACCESS/EGRESS FREE AND CLEAR OF DEBRIS.

J OWNER HAS RIGHT OF FIRST REFUSAL ON ANY ITEMS REMOVED OR DEMOLISHED IN PROJECT AREA. AT EXISTING AREAS TO BE RENOVATED, REMOVE EXISTING FINISHES AS REQUIRED TO COMPLETE NEW WORK. PATCH AND REPAIR REMAINING SURFACES AS REQUIRED TO BRING TO A LIKE NEW STATE PRIOR TO APPLYING NEW FINISHES.

K AT AREAS TO BE RENOVATED, PROVIDE HEAD GUARDS AT ALL EXISTING SPRINKLER HEADS DURING THE PERIOD OF RENOVATION.

L ANY MISC. CEILING MOUNTED ITEMS (WAPS, SPEAKERS, ETC.) TO BE REMOVED TO ACCOMMODATE WORK SHALL BE TURNED OVER TO OWNER FOLLOWING DEMOLITION PHASE.

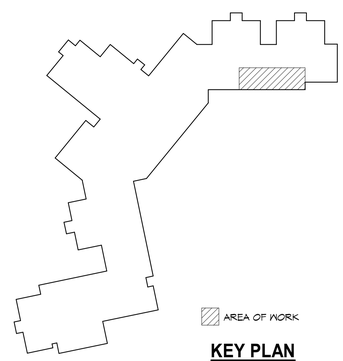
M CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY FURNITURE / EQUIPMENT LEFT IN SPACE AND EARMARKED BY OWNER'S PERSONNEL FOR DISPOSAL.




2 HAD.2 **REFLECTED CEILING PLAN - DEMOLITION**
3/16" = 1'-0"

**DEMOLITION CEILING PLAN LEGEND**

- DEMOLISHED 2 X 4 LED PARABOLIC LIGHT
- 2' X 4' ACOUSTICAL CEILING TILE
- DEMOLISHED 2' X 2' ACOUSTICAL CEILING TILE
- DEMOLISHED 2' X 4' ACOUSTICAL CEILING TILE
- SUPPLY DIFFUSER
- RETURN




**KEY PLAN**

3/16" = 1'-0" SCALE 2 0 2 4 6 8 10 12 14 FEET

P T

REVISIONS

| REV# | DATE | DESCRIPTION |
|---|---|---|
| 1 | 04/01/2026 | ADDENDUM 1 |


FREDERICK WARD ASSOCIATES
ARCHITECTS
ENGINEERS
PLANNERS
SURVEYORS
410-838-7800
www.frederickward.com
P.O. Box 727, 5 South Main Street Bel Air Maryland 21014


CLIENT:
HARFORD COUNTY PUBLIC SCHOOLS (HCPS)
102 SOUTH HICKORY AVE, BEL AIR, MD 21014

DEMOLITION REFLECTED CEILING PLAN

HCPS HICKORY ES STRIVE SUITE
2100 CONOWINGO ROAD, BEL AIR, MD 21014

STATE OF MARYLAND BRIAN A. MCCLAIN 29410 REGISTERED ARCHITECT

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: LICENSE #0009410
EXPIRATION DATE: DATE:02/14/2027

| | |
|---|---|
| DATE: 03/27/2026 | DRAWING NO: HAD.2 |
| SCALE: AS NOTED | |
| DRAWN BY: RAG | |
| CHECKED BY: BAM | FWA JOB NUMBER 2251187.00 |

PERMIT / BID DOCUMENTS

## CEILING TYPE SCHEDULE

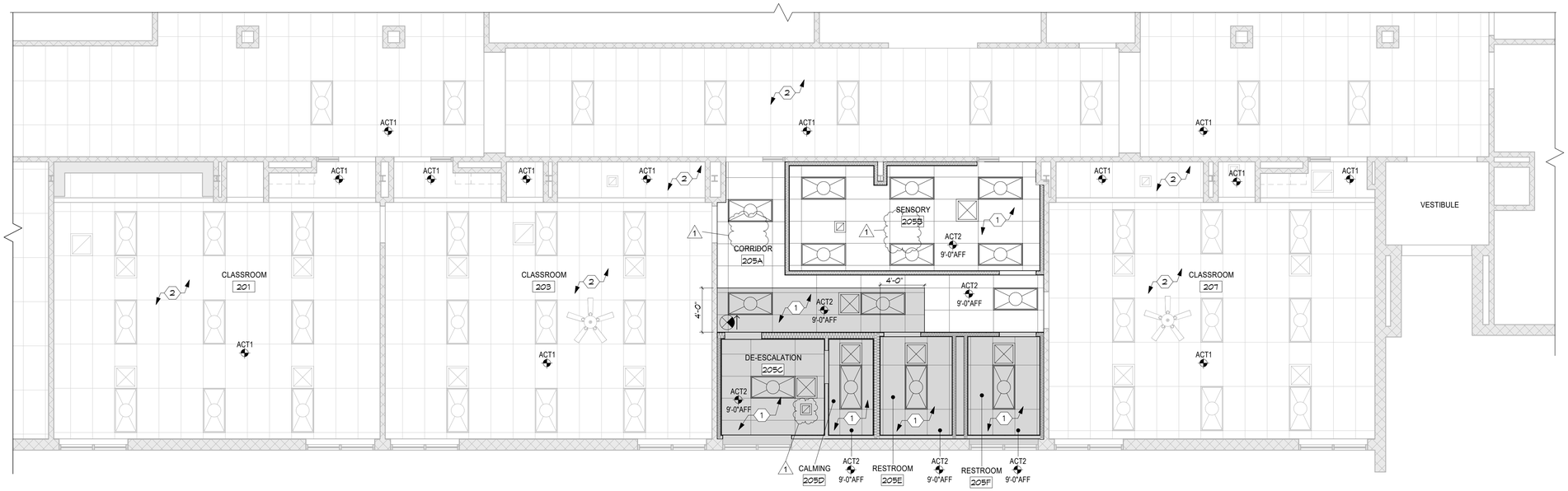
| MARK | DESCRIPTION | BOD MFR | BOD MODEL | COMMENTS |
|---|---|---|---|---|
| ACT1 | 2x4 ACOUSTICAL CEILING TILE | ETR | ETR | |
| ACT2 | 2x4 ACOUSTICAL CEILING TILE | ARMSTRONG | SCHOOL ZONE FINE FISSURED | |

## GENERAL CEILING NOTES

A ALL CEILING HEIGHT TAGS SHOW HEIGHT FROM FINISH FLOOR OF SPACE TAGGED.
B SEE MECHANICAL AND ELECTRICAL PLANS FOR TYPES OF FIXTURES, ROUTE OF DUCTWORK, ETC. FOR ADDITIONAL INFORMATION NOT SHOWN.
C ALL CEILING GRID, SUPPLY AND RETURN DIFFUSERS, CEILING ACCESS PANELS AND LIGHT FIXTURE TRIM TO MATCH COLOR OF CEILING TILE.

## KEYNOTES - NEW WORK - RCP

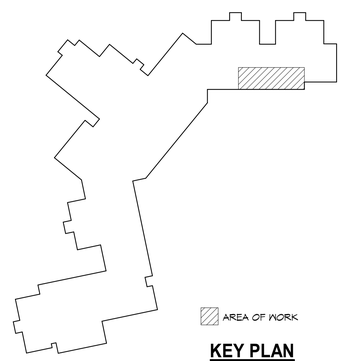
1 AT AREA SHADED, PROVIDE SOUND BATT INSULATION ON TOP OF CEILING TILE - SEE DETAILS FOR MORE INFORMATION
2 EXISTING CEILING FINISHES IN THIS AREA TO REMAIN. PROTECT-IN-PLACE DURING CONSTRUCTION




1 HA1.2 **REFLECTED CEILING PLAN**
3/16" = 1'-0"

### CEILING PLAN LEGEND

- 2 X 4 LED PARABOLIC LIGHT
- 2' X 4' ACOUSTICAL CEILING TILE
- SUPPLY DIFFUSER
- RETURN
- EXIT SIGN
- SOUND ATTENUATION BATT INSULATION ABOVE CEILING



AREA OF WORK

**KEY PLAN**

3/16" = 1'-0" SCALE 2 0 2 4 6 8 10 12 14 FEET

P T

PERMIT / BID DOCUMENTS

REVISIONS

| REV# | DATE | DESCRIPTION |
|---|---|---|
| 1 | 04/01/2026 | ADDENDUM 1 |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410-838-7800
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p.o. Box 727, 5 South Main Street Bel Air Maryland 21014


CLIENT: HARFORD COUNTY PUBLIC SCHOOLS (HCPS)
102 SOUTH HICKORY AVE, BEL AIR, MD 21014

REFLECTED CEILING PLAN

HCPS HICKORY ES STRIVE SUITE
2100 CONOWINGO ROAD, BEL AIR, MD 21014

STATE OF MARYLAND — BRIAN A. MCCLELLAND — No. 9410 — ARCHITECT

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: LICENSE # D0079410
EXPIRATION DATE: DATE 02/14/2027

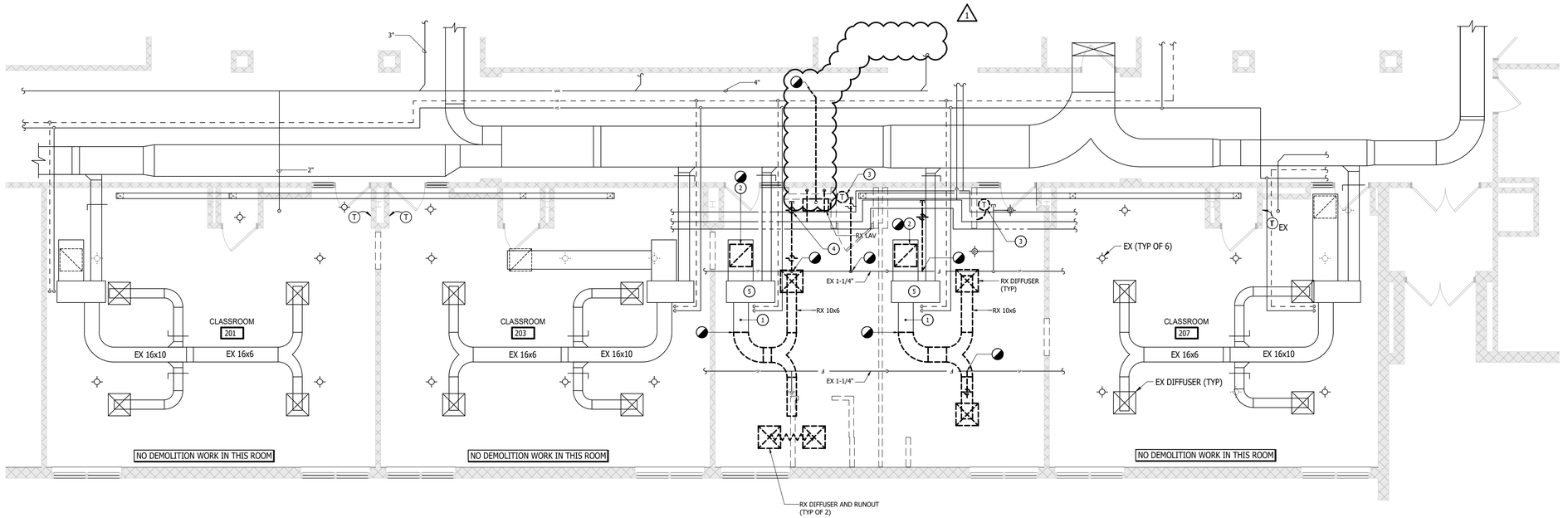
| | |
|---|---|
| DATE: 03/27/2026 | DRAWING NO: HA1.2 |
| SCALE: AS NOTED | |
| DRAWN BY: SLA | |
| CHECKED BY: BAM | FWA JOB NUMBER 2251187.00 |

## GENERAL NOTES

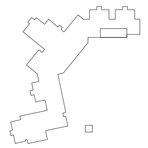
1. EX IS INDICATED IN LIGHT/THIN LINES.
2. DEMOLITION WORK IS INDICATED IN DARKER/THICKER LINES.
3. HVAC UNITS AND AIR DEVICES SHALL BE BALANCED TO THE AIR FLOW INDICATED.

## DRAWING NOTES

1. PRIOR TO DEMOLITION TRAVERSE DUCT AND REPORT FINDS TO ENGINEER.
2. RX RA REGISTER. CAP AND SEAL DUCT.
3. RX THERMOSTAT AND RELOCATE TO LOCATION ON HM2.1.
4. RX SPRINKLER HEAD. RX RUNOUT AS NECESSARY FOR NEW HEAD INDICATED ON HM2.1.
5. EX FAN POWERED TERMINAL UNIT TO REMAIN.




1 HM1.1 FIRST FLOOR - DEMOLITION
SCALE: 3/16" = 1'-0"



SCALE: 1/8" = 1'-0"
8 0 8 16

| REVISIONS | | | |
|---|---|---|---|
| REV# | DATE | DESCRIPTION |
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Phone: 410.822.3666
Fax: 410.822.6306


CLIENT:
HARFORD COUNTY PUBLIC SCHOOLS (HCPS)
102 SOUTH HICKORY AVE, BEL AIR, MD 21014

FIRST FLOOR - MECHANICAL - DEMOLITION

HCPS HIES STRIVE RENOVATION
2100 CONOWINGO ROAD, BEL AIR, MD 21014

STATE OF MARYLAND
MICHAEL NOTARANGELO
No. 35222
PROFESSIONAL ENGINEER

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: 35222
EXPIRATION DATE: 01/05/2028

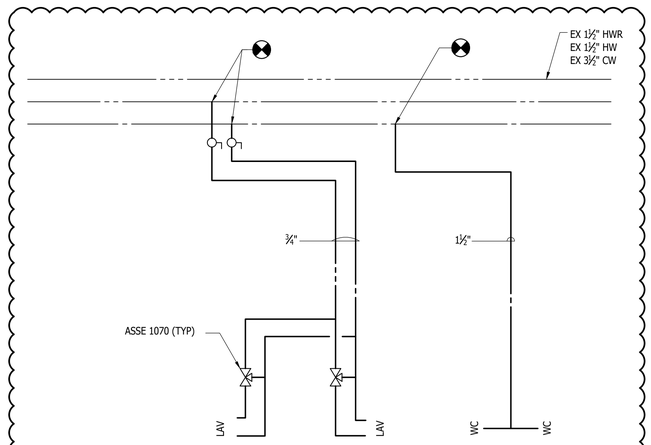
| | |
|---|---|
| DATE: 03.24.2026 | DRAWING NO: HM1.1 |
| SCALE: AS NOTED | |
| DRAWN BY: --- | |
| CHECKED BY: SED | FWA JOB NUMBER 2251187.00 |

## GENERAL NOTES

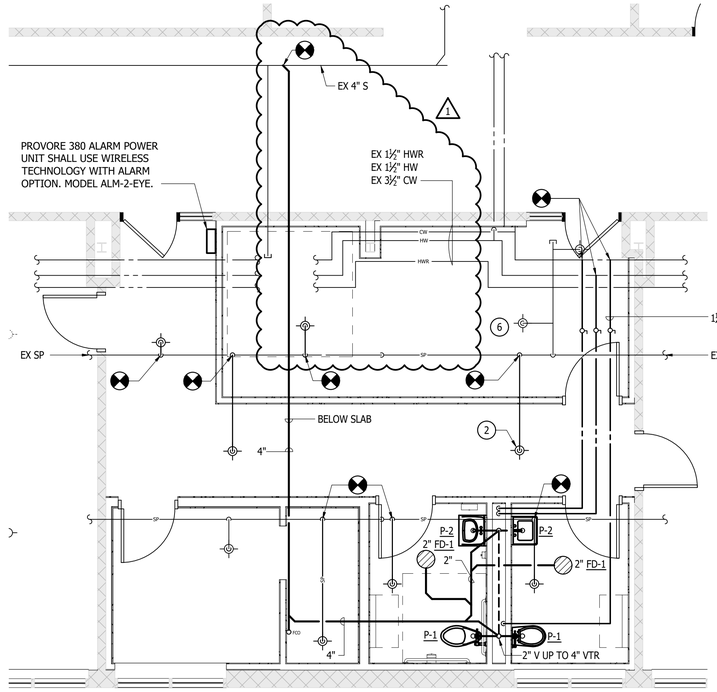
1. EX IS INDICATED IN LIGHT/THIN LINES.
2. NEW WORK IS INDICATED IN DARKER/THICKER LINES.
3. HVAC UNITS AND AIR DEVICES SHALL BE BALANCED TO THE AIR FLOW INDICATED.

## DRAWING NOTES

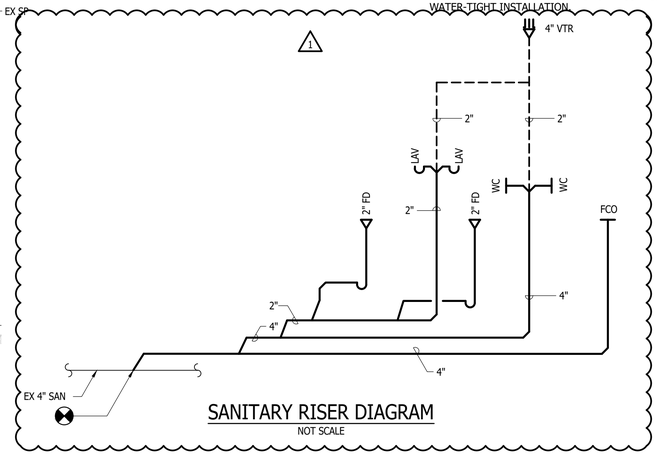
1. NEW SPRINKLER HEAD. EXTEND EX RUNOUT TO THIS LOCATION
2. NEW SPRINKLER HEAD (TYP)
3. (2) 6"O EA UP TO PIPE PORTAL ON ROOF
4. RELOCATE UNIT THERMOSTAT TO THIS LOCATION.
5. EX FAN POWERED BOX. BALANCE FOR MAX CFM 450 CFM. BALANCE PRIMARY AIR FOR MAX CFM 450 CFM
6. NOT USED
7. NOT USED
8. PROVIDE PIPE PORTAL ON ROOF. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. PROVIDE ALL ROOFING MATERIAL FOR A COMPLETE WATER-TIGHT INSTALLATION.



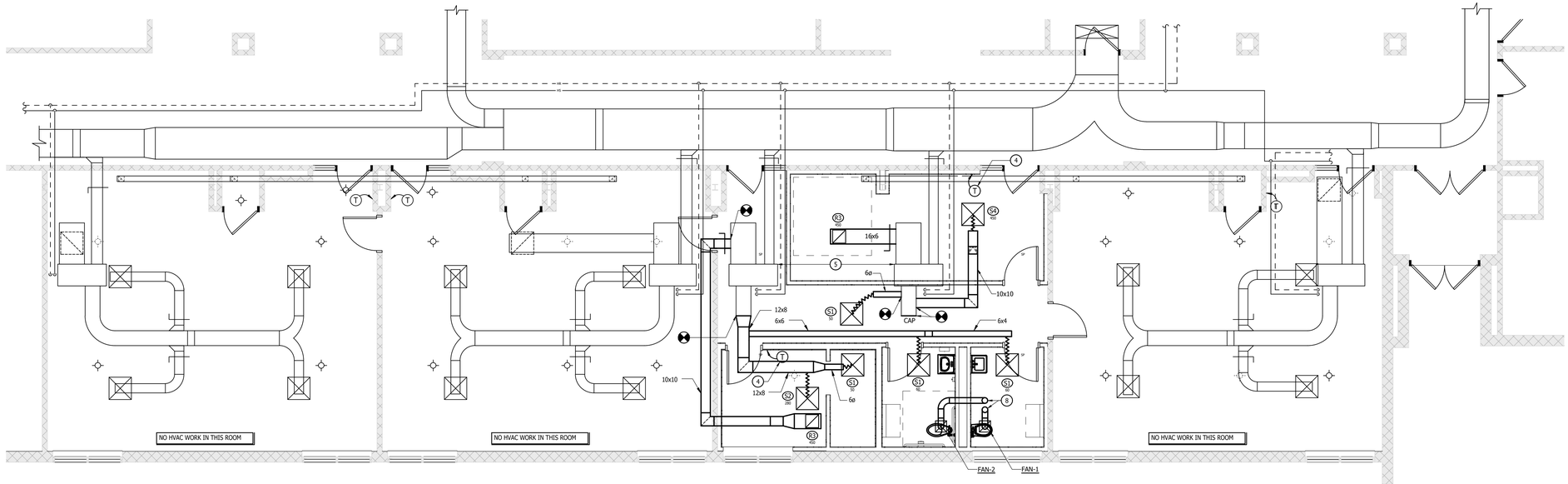

DOMESTIC WATER RISER DIAGRAM
NOT SCALE



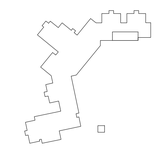

2 / HM1.1 FIRST FLOOR - NEW WORK - PLUMBING AND FIRE PROTECTION
SCALE: 1/4" = 1'-0"




SANITARY RISER DIAGRAM
NOT SCALE




1 / HM1.1 FIRST FLOOR - NEW WORK
SCALE: 3/16" = 1'-0"



SCALE: 1/8" = 1'-0"

8 0 8 16

REVISIONS

| REV# | DATE | DESCRIPTION |
|---|---|---|
| 1 | 4/1/2026 | ADDENDUM NO. 1 |


Gipe Associates Inc.
Consulting Engineers
1220 East Joppa Road, Suite 223, Towson, MD. 21286, Phone: 410.832.2400, Fax: 410.832.2418
8719 Brooke Drive, Suite 2-S, Easton, Maryland 21601, Phone: 410.822.4488, Fax: 410.822.6306


CLIENT:
HARFORD COUNTY PUBLIC SCHOOLS (HCPS)
102 SOUTH HICKORY AVE, BEL AIR, MD 21014

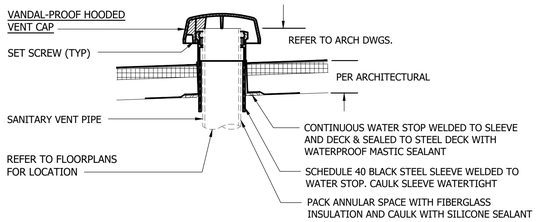
FLOOR PLAN - MECHANICAL - NEW WORK

HCPS HIES STRIVE RENOVATION
2100 CONOWINGO ROAD, BEL AIR, MD 21014

STATE OF MARYLAND
SHAWN E. DOUGHERTY
No. 35222
PROFESSIONAL ENGINEER

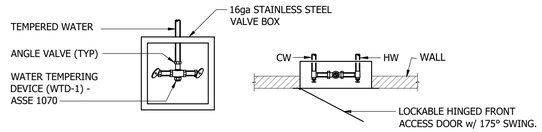
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: 35222
EXPIRATION DATE: 01/05/2028

| DATE: | DRAWING NO: |
|---|---|
| 03.24.2026 | HM2.1 |
| SCALE: AS NOTED | |
| DRAWN BY: --- | |
| CHECKED BY: SED | FWA JOB NUMBER 2251187.00 |



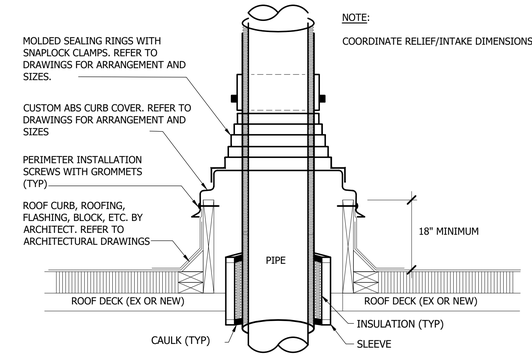

NOTE:
1. ALL ARCHITECTURAL REFERENCES ARE FOR GUIDANCE ONLY. REFER TO ARCHITECTURAL DRAWING FOR EXACT ARCHITECTURAL AND ROOFING REQUIREMENTS.
2. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION.

1 TYPICAL VENT THROUGH ROOF w/ VANDAL-PROOF CAP DETAIL — SCALE: NONE



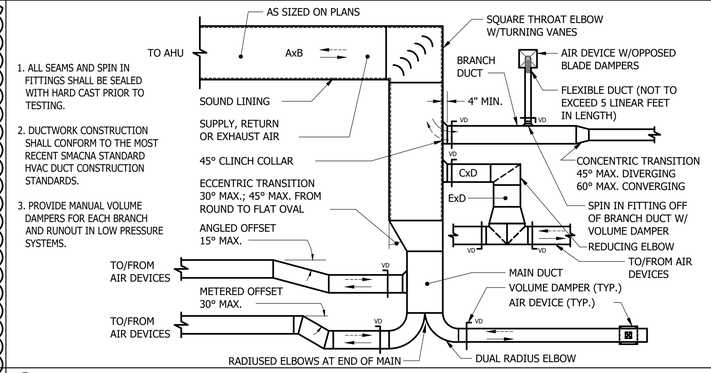

NOTES:
1. UNLESS OTHERWISE BOX SHALL BE RECESSED IN WALL, BELOW FIXTURE.
2. REFER TO RISER DIAGRAMS FOR PIPE SIZING AND ASSOCIATED FIXTURE.
3. INSTALL VALVE BOX PER MANUFACTURERS RECOMMENDATIONS.

2 TYPICAL RECESSED WATER TEMPERING DEVICE BOX DETAIL — SCALE: NONE

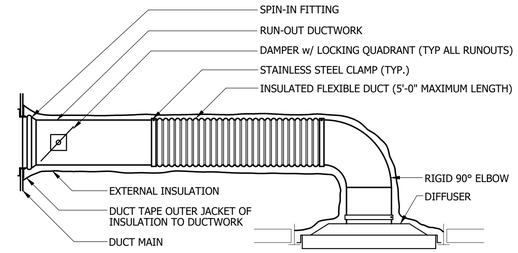



3 PIPE PORTAL DETAIL — SCALE: NONE

4 NOT USED — SCALE: NONE




5 TYPICAL SUPPLY, EXHAUST, OR RETURN DUCT OFFSET AND TRANSITION DETAIL — SCALE: NONE




NOTES:
1. REFER TO AIR DEVICE SCHEDULE FOR RUN-OUT DUCT SIZES.
2. WHERE 90° RADIUS ELBOW CANNOT BE INSTALLED DUE TO SPACE LIMITATIONS, PROVIDE RIGID 45° OR SQUARE THROAT ELBOW.

6 SUPPLY AIR DEVICE INSTALLATION DETAIL — SCALE: NONE

7 NOT USED — SCALE: NONE

8 NOT USED — SCALE: NONE

9 NOT USED — SCALE: NONE

10 NOT USED — SCALE: NONE

11 NOT USED — SCALE: NONE

12 NOT USED — SCALE: NONE

REVISIONS

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| 1 | 4/1/2026 | ADDENDUM NO. 1 |

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CLIENT:
HARFORD COUNTY PUBLIC SCHOOLS (HCPS)
102 SOUTH HICKORY AVE, BEL AIR, MD 21014

DETAILS

HCPS HIES STRIVE RENOVATION
2100 CONOWINGO ROAD, BEL AIR, MD 21014

STATE OF MARYLAND · MICHAEL NOTARANGELO · No. 35222 · PROFESSIONAL ENGINEER

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: 35222
EXPIRATION DATE: 01/05/2028

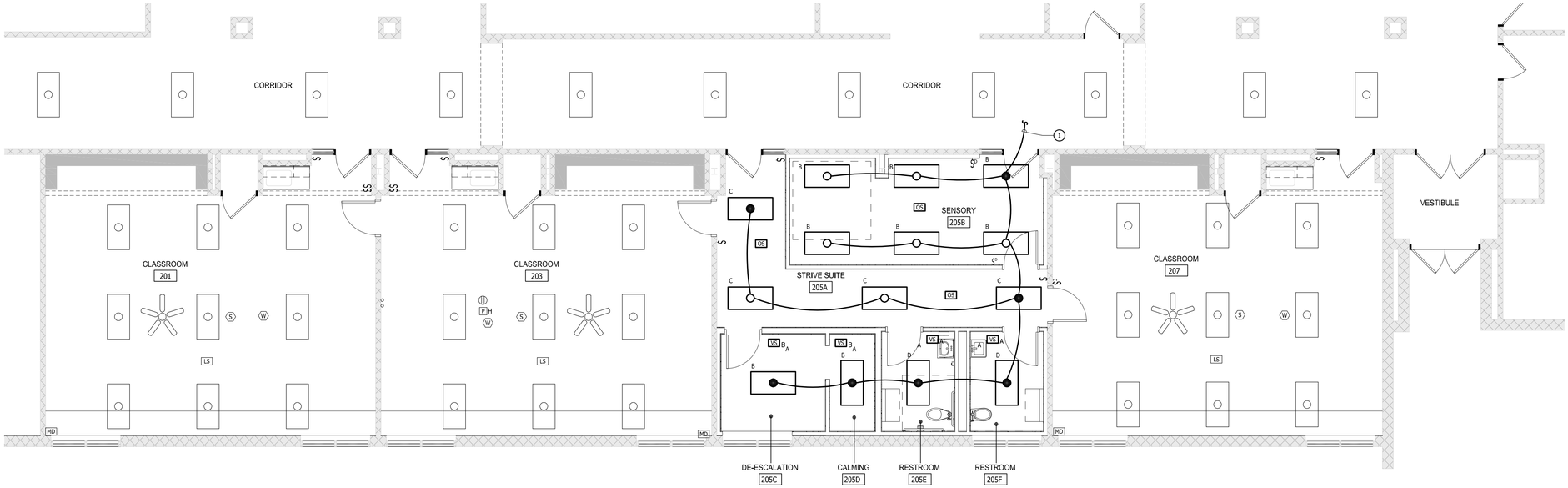
| DATE: | DRAWING NO: |
|---|---|
| 03.24.2026 | HM3.1 |
| SCALE: AS NOTED | |
| DRAWN BY: --- | |
| CHECKED BY: SED | FWA JOB NUMBER 2251187.00 |

## GENERAL NOTES:

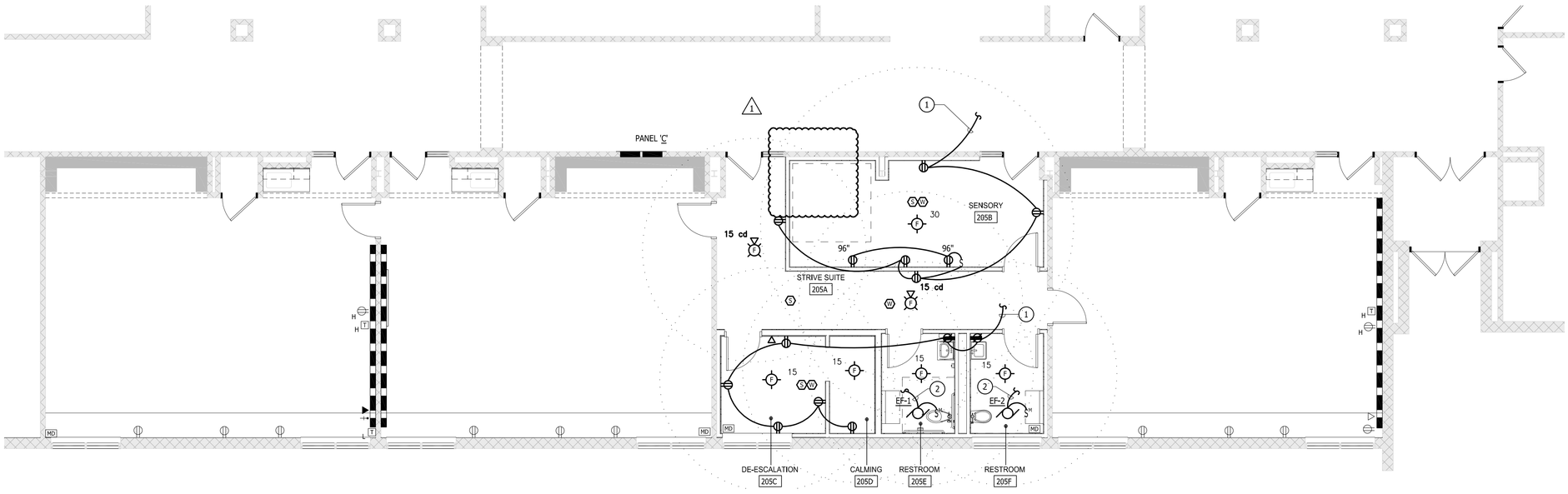
1. REFER TO MECHANICAL CONNECTION SCHEDULE AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
2. PROVIDE NEW FIRE ALARM DEVICES AS REQUIRED AND CONNECT TO EXISTING SYSTEM. PROVIDE ALL PROGRAMMING AS REQUIRED TO UPDATE SYSTEM. VERIFY SYSTEM HAS SUFFICIENT BATTERY CAPACITY FOR ADDITIONAL DEVICES. HONEYWELL SILENT KNIGHT MODEL 6700
3. REPLACE ALL EXISTING DUPLEX RECEPTACLES WITH TAMPER PROOF OUTLETS.
4. NEW SPEAKERS SHALL BE VALCOM IP BASED SPEAKERS.

## DRAWING NOTES:

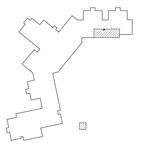
1. CONNECT TO EXISTING CIRCUIT MADE AVAILABLE THROUGH DEMOLITION.
2. CONNECT TO LIGHTING CIRCUIT IN ROOM.
3. CONNECT TO EXISTING 1P20A SPARE CIRCUIT BREAKER IN EX PANEL C.
4. COORDINATE INSTALLATION OF 2" CONDUIT FOR INSTALL OF CORD AND PLUG TO SEWAGE EJECTOR PUMP.




1 HE2.1 FIRST FLOOR - NEW WORK
SCALE: 3/16" = 1'-0"




2 HE2.1 FIRST FLOOR - NEW WORK - POWER, FIRE ALARM & SPECIAL SYSTEMS
SCALE: 3/16" = 1'-0"



SCALE: 3/16" = 1'-0"

4 0 4 8 12

REVISIONS

| REV# | DATE | DESCRIPTION |
|---|---|---|
| 1 | 03/31/2026 | ADDENDUM 1 |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CLIENT:
HARFORD COUNTY PUBLIC SCHOOLS (HCPS)
102 SOUTH HICKORY AVE, BEL AIR, MD 21014

FLOOR PLAN - ELECTRICAL - NEW WORK

HCPS HIES STRIVE RENOVATION
2100 CONOWINGO ROAD, BEL AIR, MD 21014

STATE OF MARYLAND
ERIC A. PUSCHEL
4483
PROFESSIONAL ENGINEER

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: 44837
EXPIRATION DATE: 12/22/2027

| | |
|---|---|
| DATE: 03.24.2026 | DRAWING NO: HE2.1 |
| SCALE: AS NOTED | |
| DRAWN BY: EMP | |
| CHECKED BY: EMP | FWA JOB NUMBER 2251187.00 |