

# *WPS Air-Conditioning Supplemental Study (Article 18)*



*Town Meeting Presentation  
April 1, 2025*

Facilities Management Department

# *Agenda*

- Why is Supplemental Study Needed?
- Proposed Study Scope
- Project Schedule
- Appropriation Amount

# *Why is Supplemental Study Needed?*

1. More current and additional information required
2. Five years since original study completed
  - A. Ex. MS Auditorium now has AC
3. HVAC Technology has changed significantly
  - A. Hardy & Hunnewell: Heat Recovery vs. Heat Pump Systems
4. Estimated cost has increased significantly
5. Construction Schedule/Phasing major unknowns
6. ADA Requirements Likely to Apply w/ Higher Cost
7. Three options will be vetted in study **(2 are new)**
  - A. Preferred Option from 2020 study: Full AC
  - B. “Window Unit” option: Exterior Classrooms/Offices only
  - C. “Hybrid” AC/Heat Pump option: Exterior Classrooms/Offices only

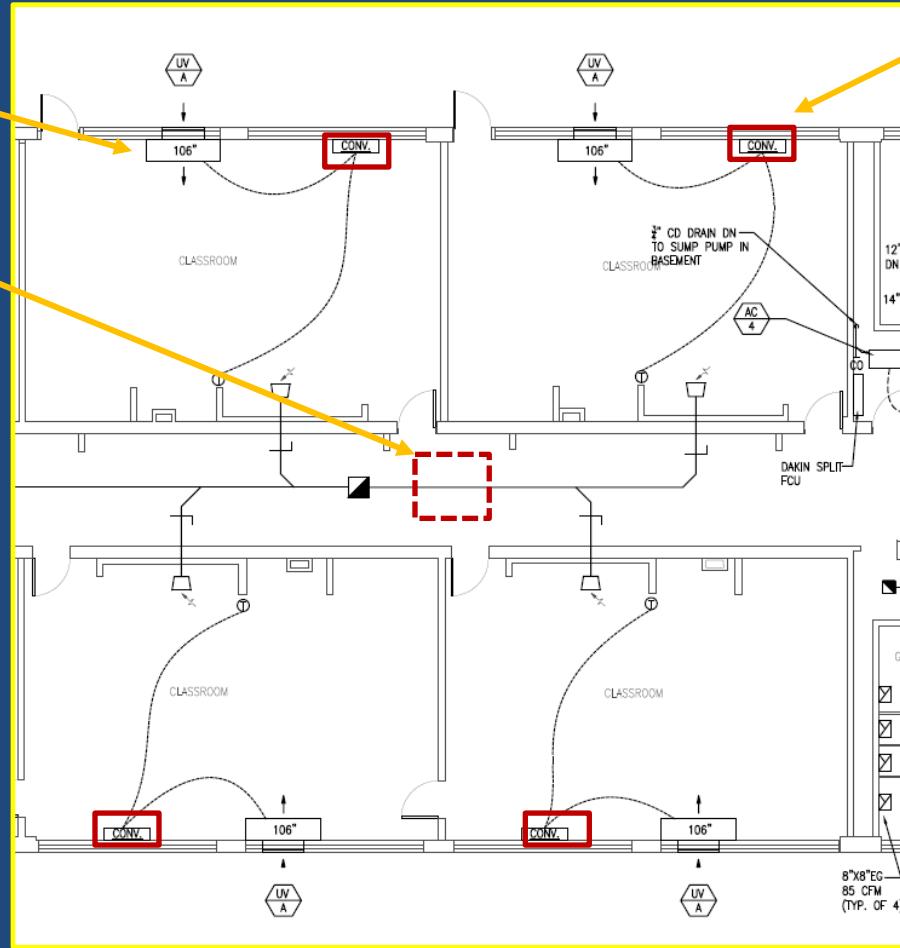
# *Proposed Supplemental Study Scope*

1. Develop 3 Air-Conditioning System Options
  - A. Update Preferred Option from 2020 Study
  - B. Window units in classrooms/exterior offices only
  - C. Ductless units/heat pumps in classrooms/offices only
    - *Consider Geothermal (only if grant funding available)*
2. Energy Analysis and Sustainability Considerations
3. Building Code Overview (*including MAAB/ADA*)
4. Schedule/Construction/Phasing
5. Cost Estimates
6. Report and Meetings

# Option 1: Full Building AC

(Preferred Option from Study – Representative School Shown)

Existing  
“Univent” to  
Remain  
New Rooftop  
VRF (Outdoor)  
Unit



New (Indoor)  
Diffuser Unit

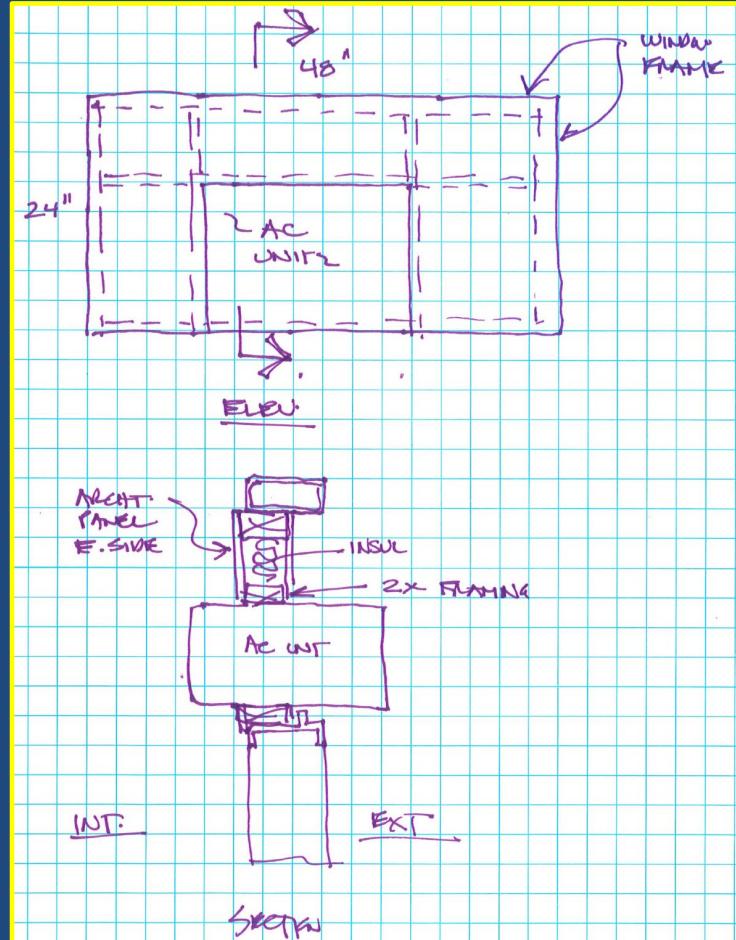


# Option 2: Window Units

*(Provides cooling at Exterior Classrooms/Offices only)*



Window Unit (One or two per classroom)



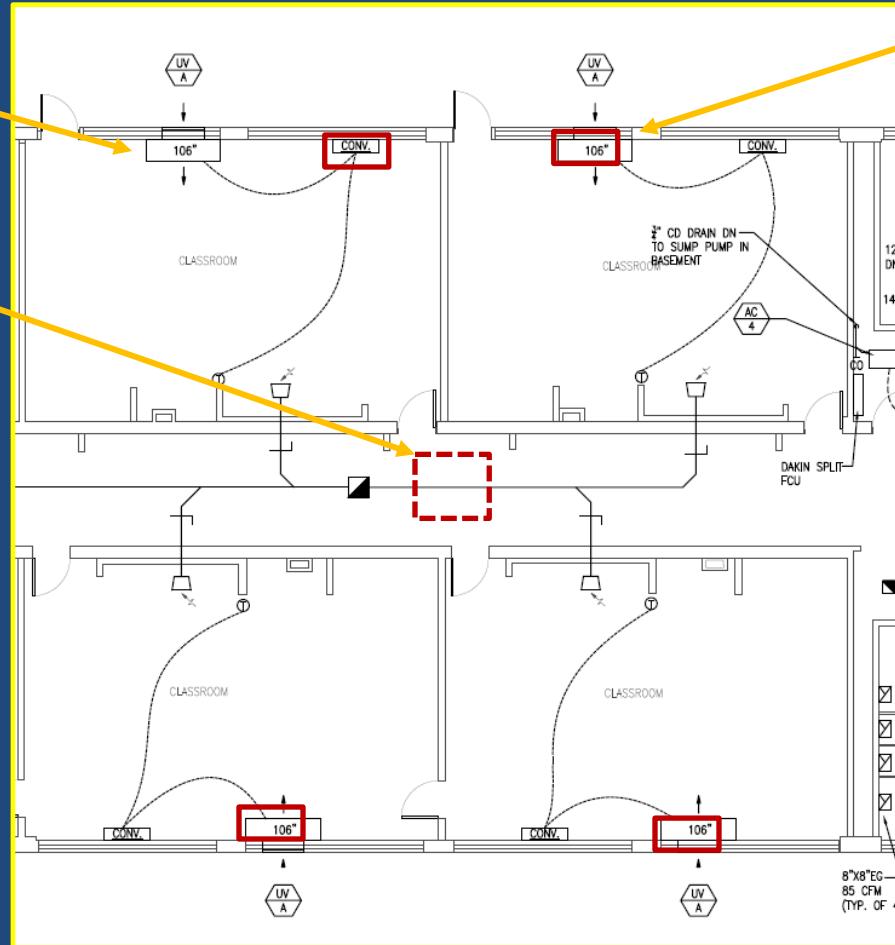
Window "Fit Out" Accommodations

# Option 3: Hybrid Partial AC

(Provides cooling & heating at Exterior Classrooms/Offices only)

Existing  
“Univent” to  
Remain

New  
Rooftop  
VRF Unit



New  
Diffuser



# *Project Schedule*

- 2025 ATM: Supplemental Study Fund Request (SC)
- 2026 ATM: Design Fund Request (PBC)
  - *May be a Fall 2026 STM request*
  - Possible Debt Exclusion and Ballot Vote
- 2027 Fall STM: Construction Fund Request (PBC)
- Final Completion – *TBD depending upon options selected*

# Appropriation Amount

- \$182,000 Appropriation Request

Project Budget for Supplemental Study <b>School Air-Conditioning Project</b>		<b>Budget</b>
<b>ENGINEERING &amp; OTHER PROFESSIONAL SERVICES</b>		<b>\$ 153,000</b>
Engineers Study Fee		\$ 68,000
Reimbursable expenses		\$ 5,000
Detailed MAAB Evaluation (additional placeholder)		\$ 40,000
Addit. Cost Estimates (additional placeholder)		\$ 10,000
Additional Architectural Renderings (additional placeholder)		\$ 5,000
Testing & Inspections		\$ 10,000
Hazardous Materials sampling/testing		\$ 15,000
<b>GENERAL SUPPLIES &amp; SERVICES</b>		<b>\$ 6,000</b>
Printing, mail, misc. expenses		\$ 1,000
FMD Support & Custodial OT		\$ 5,000
<b>CONTINGENCIES</b>		<b>\$ 22,950</b>
Soft Cost Contingency (15% of Engin)		\$ 22,950
<b>TOTAL BUDGET</b>		<b>\$ 181,950</b>
<b>APPROPRIATION REQUEST</b>		<b>\$ 182,000</b>

*Thank you for your consideration!*

