Bid Specs

PROJECT: GUTTER HEAT TRACE CABLE AND CONTROLS INSTALLATION

1. SUMMARY & BACKGROUND

The Freeport Area School District is soliciting comprehensive, competitive, sealed bids from qualified electrical contractors to furnish, install, and test a fully automated self-regulating heat trace cable system. The objective is to mitigate hazardous ice dams and snow accumulation in gutters and downspouts.

Building: Freeport Area Middle School
Address: 629 South Pike Road, Sarver, PA 16055

** Building layout schematic available upon request **

IMPORTANT NOTICE TO CONTRACTORS: All architectural layout drawings and sketches provided by the District are **FOR REFERENCE ONLY!** The chosen contractor shall be solely and fully **responsible for verifying all in-field measurements**, actual gutter lengths, downspout paths, and physical routing profiles prior to submitting a final bid or ordering project equipment.

2. RFP COORDINATION & CORRESPONDENCE

All official correspondence, questions, site visit coordination, and final bid submissions must be routed directly to the designated District Representative:

Contact Person: Eric Maliki

Email Address: mailki@freeport.k12.pa.us

Role: Maintenance Director

3. SCOPE OF WORK

The contracted vendor shall provide all engineering, supervision, labor, materials, tools, staging equipment, and testing tools required to execute a complete, code-compliant, and operational installation.

Material Procurement & Furnishing

- Provide premium commercial-grade self-regulating heat trace heating cables.
- Provide heavy-duty, weather-resistant gutter/downspout mechanical attachment clips, spacers, and structural hardware.
- Provide waterproof junction boxes, power connection kits, end seals, and splice kits certified for outdoor, wet environments.

Field Engineering & Installation

- **Field Verification:** Independently measure and survey every gutter segment and downspout drop mapped on reference drawings to ensure total system structural compatibility.
- Mount heating cables in a straight configuration along gutters, and track downspouts below the frost line or exit point.
- Coordinate all electrical connections inside building panels, executing clean conduit paths along exterior walls.

Electrical & Automation Controls Setup

- Furnish and mount a weatherproof, centralized automation control panel utilizing ambient dry-bulb temperature and moisture/snow precipitation sensors.

- Ensure controls prevent system operation when ambient temperatures are above freezing or when moistures absent, optimizing energy performance.
- Provide code-mandated ground-fault equipment protection (GFEP) breakers (typically 30mA trip) at the source panelboard.

4. TECHNICAL SPECIFICATIONS

Component	Technical Criteria & Standard
System Voltage	Dual Capabilities: **120 Volt** or **277 Volt** circuits based on localized configurations.
Cable Type	Self-regulating, industrial/commercial grade with UV-stabilized fluoropolymer jackets.
Power Output	5 to 8 Watts per foot at 32 degrees F in snow/ice, adjusting dynamically.
Control Logic	Smart Microprocessor-based controller featuring dual-sensor input (Temp + Moisture).
Code Compliance	Full alignment with **National Electrical Code (NEC) Article 426**.

5. BID SUBMISSION REQUIREMENTS

Bids will be received up to 11:00 A.M., to the attention of Bradley T. Walker, Director of Finance & Operations, Freeport Area School District, 621 South Pike Road, Sarver, PA 16055.

- **Detailed Bill of Materials:** Explicit breakdown of cable counts, controller model, and hardware items.
- **Field Verification Statement:** Affirmation that the contractor understands they are solely responsible for all final field measurements.
- **Project Schedule:** Estimated timeframes from authorization to procurement, field installation, and final testing.
- **Warranty Document:** Breakdown of standard material and installation craft guarantees.
- **Total Fixed-Price Estimate:** All-inclusive lump-sum value encompassing all labor, overhead, and equipment.
- **Include State Contract Information:** CoStars, etc.

6. Timeline

- Submissions are due by 11:00 AM on Monday, November 9, 2026