



Scope of Work/Specifications
FOR
COLTON JOINT UNIFIED SCHOOL DISTRICT
FOR
CalSHAPE AB841 HVAC Optimizing Program
1212 Valencia Drive, Colton, CA 92324

Bid No. #26-08FAC

Contractor to provide all Labor and Materials to install and program thermostat and integrated carbon dioxide monitors and provide documentation in coordination with KFI Engineers with appropriate project information (eg. CO2 monitor status, quantity, manufacturer, model, labor hours and rates) to finalize reporting in compliance with CalSHAPE Program Guidelines.

All data points will be required for trending and notification purposes in accordance with CalSHAPE requirements. The CO2 monitoring data will need to be fully integrated through back-end programming and front-end viewing on the Pelican web-based Connect App. Pelican thermostats and all associated Pelican products in the Pelican ecosystem are the District standard for all wireless mesh thermostats.

The district has multiple variations of existing thermostats to be replaced and proper disposal of including but not limited to:

- Venstar stand-alone T2900 thermostats
- Carrier T56 wall sensors
- Carrier CCN Gen 3 wall sensors
- Various versions of Carrier ZS sensors

All existing Carrier iVu communications buses (“com. wire”) from excluded HVAC units from this SOW must NOT be tampered with and must be left fully operational, including lighting controllers that utilize the Carrier iVu communications.

The district is requesting contractor to install new Pelican thermostats with integrated CO2 sensors per “Exhibit A” Site Drawings for each Site including all associated controls materials including but not limited to:

- Pelican TC3 Thermostats
- Pelican Gateway GW400
- Pelican Repeater WR900 per plans and any additional quantity to support the mesh network
- PROBE-T1- 10K Type Duct Probe Supply Air Sensors connected to either TA1 or Pearl Controller per plans
- Z Series: Wireless Zone Coordinators for zoned units per plans
- Enclosures if needed
- Transformers
- Wiring – Low voltage for thermostat and sensor communications
- Wiring – High voltage for power supply, where needed, for gateways and repeaters
- Thermostat wall-plates to cover any existing wall openings

Contractor shall provide all unit costs on the furnished Bid Form

Unit Cost #1:

Provide a cost to install and program one (1) TC3 thermostat - CO2 sensor for sensors beyond bid quantity listed below.

Unit Cost #2:

Provide a cost to install and program one (1) Pelican Gateway GW400 beyond bid quantity listed below.

Unit Cost #3:

Provide a cost to install and program one (1) Pelican Repeater WR900 beyond bid quantity listed below.

Unit Cost #4:

Provide a cost to install and program one (1) PROBE-T1 Supply Air Sensor and one (1) TA1 beyond bid quantity listed below.

Unit Cost #5:

Provide a cost to install one (1) PROBE-T1 Supply Air Sensor and one (1) Pearl Controller to be installed, integrated, and programmed with Economizer integration.

List of Sites for CalSHAPE Scope of Work

Number	Site	Monitor Quantity
1	Grand Terrace High	12
2	Bloomington High	126
3	Crestmore Elementary	34
4	Gerald A. Smith Elementary	14
5	Grand Terrace Elementary	19
6	Mary B. Lewis Elementary	21
7	Ruth Grimes Elementary	5
8	Terrace Hills Middle	11
9	Terrace View Elementary	13
10	Walter Zimmerman Elementary	18
11	Joe Baca	49
12	Jurupa Vista Elementary	37
13	Ruth O. Harris Middle	41
14	Michael D'Arcy Elementary	40
15	Sycamore Hills Elementary	41
	Total	481

Refer to “Exhibit A” Site Drawings for each Site
Refer to “Exhibit B” District School Calendar