



**GMP PROPOSAL FOR THE
DESIGN AND INSTALLATION OF HVAC
REPLACEMENT UNDER
PROPOSITION 39 ENERGY EXPENDITURE
PLAN**

***PLEASANTON UNIFIED SCHOOL DISTRICT
Facilities and Construction
4750 First Street
Pleasanton, Ca 94566***

Submitted January 30, 2019:



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CA LICENSE #646794

DSA #1000000166

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1.0 Base Proposal Scope (Split and Package Systems)

A. Scope of Work:

Contractor shall provide construction services as described in the Agreement & General Conditions, Contractor's Guaranteed Maximum Price (GMP) Proposal, and other Contract Documents as necessary to implement the Scope of Work described herein. To the extent that there are discrepancies between the Agreement and the Contractor's GMP Proposal, the terms of the GMP Proposal shall prevail.

Inventories of existing installations are specified in the Project Scope Inventory dated 12/20/2019 and included in this GMP Proposal (see Section 4 of the GMP Proposal). All HVAC units shall be replaced with units of equivalent capacity. Proposed units must have meet minimum efficiencies as required by Building Efficiency Standards and the California Energy Commission Proposition 39 Program.

The following provides a brief description of the Project installations as found in the Project Scope Inventory:

Heating, Ventilation, and Air Conditioning ("HVAC") – Scope of Work includes labor and materials for the following:

- Replace 42 heat pump units with high efficiency heat pump units:
- Replace (4) 7.5-ton package AC units
- Replace (2) 4-ton package AC units
- Complete removal and replacement of the existing HVAC units, patching, and assessment of the condition of existing ductwork as needed.
- The new indoor units will be installed in the original place as the old units. The new outdoor units will be installed on the existing condensing and package unit platforms.
- Provide all sheetmetal as needed to connect new units to the existing ductwork.
- Verify that all new units will connect to existing ductwork. If new ductwork transitions are required, Contractor to furnish and install.
- Furnish and install weather tight sealant on all seams, joints, and connection to ensure full weather seal.
- Provide and install new breakers, as necessary. As it is unknown which breakers may be in need of replacement, IES will provide new breakers as needed. Depending on the breaker rating (indoor 208/1ph or outdoor 600 V/3ph) the price varies from \$195/each installed to \$375/each.

- Reconnect the condensate and electrical service to the new equipment. New fused disconnects are included for the (38) rooftop split. The (4) ground outdoor units, all indoor units and (6) package unit disconnects will be reused per the District's direction.
- Cap gooseneck on roof for ductwork serving rooms 404 and 405, so that outside air is not pulled in.
- Furnish and install new primary condensate lines in buildings 200, 300, 600, 700. Re-pipe all horizontal lines in attic and connect them to existing vertical lines. Provide and install float switch to enable the unit to turn off.
- Provide and install refrigerant line connections to the AC units. Refrigerant lines will be flushed and purged, and pressure tested to identify leaks. All exposed refrigerant lines will be insulated and painted, per regulations.
- Repair existing economizer systems in Wing 400 for (2) 7.5-ton/each split systems.
- Existing HVAC units are connected to Pelican programmable thermostats. Contractor is responsible for ensuring that new HVAC units are compatible with the thermostats and retain the same functionality regarding controls compared to existing units. The cost of any work required to make the new units operate and/or properly interface with the District's thermostats is the Contractor's responsibility.

All material counts provided **must** be verified by the Contractor during the Site verification walks. Upon completion of the Site verification walks, Contractor is responsible for updating and presenting final counts to the District for approval (via Submittals) before commencing procurement.

In addition to the construction of the Project installations, Contractor will be responsible for the following:

- Survey all sites and existing installations/systems.
- Obtain and maintain all licenses, permits, and authorizations as needed for the Project.
- District will register project with DIR and Contractor shall file all necessary paperwork throughout the Project.
- Provide Submittals to District for approval prior to procuring material.
- Remove old HVAC equipment and properly dispose of per EPA regulations.
- Provide necessary rigging and trucking of new equipment to the Project site.
- Provide a crane or gradall for the removal and installation of the equipment on the roof.
- Procure and install Project, ensuring quality of workmanship meets requirements set forth in the Agreement and other Contract Documents.

- Installation schedule should take into account typical school operating hours.
- Provide documentation, as requested by District or Program Manager, to support energy savings calculations and progress reports.
- Participate in bi-weekly or weekly progress meetings (by phone) to provide progress updates, schedule updates, and installation updates, as requested by District or Program Manager.
- Ensure compliance with governing codes and standards including, but not limited, to Title 24 Standards and the California Building Code.
- Provide a schedule for completion of Project and update schedule as requested by District or Program Manager.
- Assist the District and its consultants in preparing and filing utility incentive and rebate applications including incentives from PG&E and the Proposition 39 program.
- Clean all areas daily as new work is completed.
- Return all Sites to condition existing prior to Project commencement. Work to restore Sites to preexisting condition shall include, but is not limited to: paint touchups, patching of stucco, patching of walls, and replacement of ceiling tiles where cracked or damaged due to Work. Paint to be provided by Contractor.
- Contractor is responsible for all ADA compliance associated with scope of work, as well as for Title 24 NRCA and NRCI forms, as required, for Title 24 compliance.
- As appropriate, complete commissioning and testing requirements in accordance with Title 24.
- Create and deliver Final Binder to District in accordance with specifications in Exhibit G of the Agreement.
- Provide a 2-year contractor's warranty after the completion of work that all material and equipment furnished under this contract will be of good quality, new, and will operate free from defects.

Below is the detailed HVAC Scope of Work to be performed and a list of the units scheduled for replacements, as included in the Project Scope Inventory dated 12/05/18 (See Section 4) revised from the originally provided in RFP dated 8/29/18).

- Remove old HVAC equipment and properly dispose of per EPA regulations.
- Provide necessary rigging and trucking of new equipment to the Project site.
- Provide a crane or gradall for the removal and installation of the equipment on the roof.
- Provide and install new split systems as detailed below. The indoor units will be installed in the original place as the old units. The new outdoor units will be installed on the existing platforms. We will include and install minimum strip heaters for all

indoor air handlers but we will not supply electrical power to power the strip heater. Any upgraded electrical service for the new strip heaters is not in this GMP Proposal.

- Provide all sheetmetal as needed to connect new indoor unit to the existing ductwork.
- Furnish and install weather tight sealant on all seams, joints and connections to ensure full weather seal.
- Reconnect the condensate and electrical service to the new equipment. New fused disconnect is only included for the (38) rooftop split units. The (4) ground outdoor units, the indoor units and (4) package unit disconnects will be reused per the Customer's direction.
- As requested, provide new secondary condensate line from the existing fan-coil units located in the hallways with terminations to the outside of the building.
- The existing refrigerant lines are to be re-used. R-22 refrigerant will be purged and evacuated per EPA regulations. All existing exposed refrigerant lines will be insulated and painted per regulations, as needed.
- Reconnect all units to the existing thermostat controls.
- As requested, repairs to the existing economizer systems in Wing 400 for (2) 7.5-ton/each split systems.
- IES' technicians will perform a complete start-up and test of new equipment to ensure proper system operation.
- Clean all areas daily as new work is completed.
- Two year warranty on IES' provided equipment and workmanship. Warranty starts from the day of equipment start-up.

The quantities, sizes and location of all new HVAC units are listed below:

Pleasanton Middle School Site						
Proposed Equipment						
Area	Qty	Nominal Tons	Type	Brand	Cooling Efficiency SEER/EER	Heating Efficiency AFUE %
Office1	1	3.0	Split/HP	Day & Night	14 SEER	N/A
(2) Building 200, (2) Building 300, Building 500, (2) Building 600, (2) Building 700, Office2 and Counseling,	11	4.0	Split/HP	Day % Night	14 SEER	N/A
(6) Building 200, (6) Building 300, (2) Building 400, (1) Building 500, (6) Building 600, (6) Building 700, Office3,	28	5.0	Spit/HP	Day & Night	14 SEER	N/A
(2) Building 400 Classrooms	2	7.5	Split/HP	Day & Night	11 EER	N/A
(4) Building 400	4	7.5	Pkg/GE	Day & Night	11 EER	81%
(2) Building 400	2	4.0	Pkg/GE	Day & Night	14 SEER	81%

Notes:

- * - G/E – denotes Gas Heating/Electric Cooling system unit.
- HP – denotes Heat Pump system unit.

B. Exclusions:

The above Scope of Work excludes the following:

- Plumbing, Fire Sprinklers, Fire and Life Safety equipment and its components; individual diffusers air balance inside the classrooms.
- Warranty, repair and/or upgrade of the existing mechanical, plumbing and electrical systems, air distribution and control systems found in disrepair or not compliant to code; modifications/upgrades to existing condensing unit platforms. Any and all systems and defects which require repairs/replacements as a result of the pre-existing condition.
- Upgrade of the existing over all site electrical service capacity, if needed for the new units. Upgrade existing power to the new strip heaters.
- New controls; repairs/replacement of the existing controls to be re-used, re-programming of the existing controls; economizers where not required by code (unless stated above).
- DSA fees, inspectors, reviews and approvals; Proposition 39 submissions, energy calculations; design services (sizing, load calculations, air/water distribution systems, etc.) unless specifically stated herein.
- Any items not specified or addressed in this Scope of Work. No equipment, materials or labor above and beyond this scope is included in this project.

C. Assumptions and Clarifications:

1. This proposal is based on the assumption that unfettered access to the work areas will be provided to IES and its subcontractors, if any.
2. As per General Conditions, IES' pricing include per diem wages & other wage requirements applicable to public projects.
3. As requested, IES will be replacing the existing outdated HVAC units with new in-kind equipment of equal capacity. These direct like-for-like replacements are based on the assumption that the original units have been sized properly for the local weather conditions, current occupancy levels, and current building use. Unless specifically requested, it is not IES' intent to re-design or to modify these systems. The existing air distribution systems (inside the buildings), electrical connections, condensate and gas piping and other existing HVAC systems' components will remain as-is.
4. Original design plans by Deems Lewis McKinley Architecture (DSA approved on 12/22/89; as-builts dated 6/20/91) are used as a reference for this project. Since the considered work is a direct in-kind HVAC equipment replacement in the same locations, no existing building structural elements will be affected or altered. Essentially, this project consists of the maintenance related HVAC equipment replacements only. According to State of California Division of State Architect Office of Regulation policies IR A-10, PR 14-02, IR A-22, IR 11B-6 and applicable Sections 17280-17316 of the California Education Codes, this project falls into the categories of non-structural work. Approval from DSA/ORS is exempted and plans need not be submitted for the review based on the considered herein reasons. IES will provide a letter signed by the independent licensed Structural Engineer stating that the project is exempted from DSA review.
5. Since the project consists of in-kind HVAC equipment replacements with no new units being added (all scope is exempted from DSA review), no system design changes are required. IES will provide school site drawings with the locations of the replaced units shown along with the corresponding detailed equipment schedules. Upon the project completion, IES will provide final Drawings of Record (DOR).

2.0 Project Guaranteed Maximum Price

Guaranteed Maximum Price:

The Guaranteed Maximum Price for the project is **\$653,213**, including all Pre-Construction Fees and Construction Fees as outlined in the RFP Fee Breakdown Table, which is revised below. This Guaranteed Maximum Price shall be the “Contract Sum” as defined in the Agreement.

Proposed Contractor Fees			
Pre-Construction Fees			
	Value	Unit	
Management Fee (Note 2)	0.00%	%	\$ -
Site Audit Fee (Note 3)	0.43%	%	\$ 2,525
Design Fees (Note 4)	2.15%	%	\$ 12,625
Pre-Construction Fees Sub-total (CA 1 + CA 2)	-	-	\$ 15,150
Construction Fees			
	Value	Unit	
General Conditions Costs	\$ 8,499	Per Month	\$ 12,749
Supervision Costs	\$ 7,333	Per Month	\$ 11,000
Trade Bids	1	Each	\$ 586,546
Title 24 Acceptance Testing Costs	-	Each	\$ -
Insurance	0.00%	%	\$ -
Builders Risk Insurance	0.50%	%	\$ 3,051
Profit	0.00%	%	\$ -
Bond	1.00%	%	\$ 6,133
Contingency and Allowances	3.00%	%	\$ 18,584
Construction Agreement Sub-total	-	-	\$ 638,063
Total Project Cost			\$ 653,213

3.0 Proposal Approval

This agreement is subject to the terms and conditions outlined in the Agreement entered into by IES and Pleasanton Unified School District. This GMP Proposal shall commence upon receipt of a Notice to Proceed to construction from the District.

4. Project Scope Inventory

The Project Scope Inventory for the Base Project Scope is included on the following pages, followed by the Project Scope Inventory for the Alternate Packaged Units.

I.E.S. HVAC Audit Form																Page: 1 of 3
District: Pleasanton USD																Date: 12-5-18
																Auditor: RAM
	School Site	Classroom # or Area Served	Unit Type	Manufacturer	Configuration	Model #	Serial #	Existing Nominal Tons	Year Installed	New Nominal Tons	Electrical Service Indoor Units	Electrical Service Outdoor Units	Heating Load, MBH In/Out	Electrical Heater, KW	Supply Air Blower, HP or AMP.	IES Price
1	Pleasanton Middle School	Building 200	Split/HP	Carrier	Hori.	38YH0600DL	2889E27389	5	1989	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
2	Pleasanton Middle School	Building 200	Split/HP	Carrier	Hori.	38YH0600DL	0590E29949	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
3	Pleasanton Middle School	Building 200 CH	Split/HP	Carrier	Hori.	38YH0420DL	4989E01195	3.5	1989	4	208/230/1	460/3	N/A	0	0.5	\$ 10,886.88
4	Pleasanton Middle School	Building 200	Split/HP	Carrier	Hori.	38YH0600DL	0590E29940	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
5	Pleasanton Middle School	Building 200	Split/HP	Carrier	Hori.	38YH0600DL	1090E02565	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
6	Pleasanton Middle School	Building 200	Split/HP	Carrier	Hori.	38YH0600DL	0590E29953	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
7	Pleasanton Middle School	Building 200 CH	Split/HP	Carrier	Hori.	38YH0420DL	4989E01201	3.5	1989	4	208/230/1	460/3	N/A	0	0.5	\$ 10,886.88
8	Pleasanton Middle School	Building 200	Split/HP	Carrier	Hori.	38YH0600DL	0590E29945	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
9	Pleasanton Middle School	Building 300	Split/HP	Carrier	Hori.	38YH0600DL	0590E29952	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
10	Pleasanton Middle School	Building 300	Split/HP	Carrier	Hori.	38YH0600DL	0590E29936	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
11	Pleasanton Middle School	Building 300	Split/HP	Carrier	Hori.	38YH0600DL	0590E29938	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
12	Pleasanton Middle School	Building 300 CH	Split/HP	Carrier	Hori.	38YH0420DL	4989E01199	3.5	1989	4	208/230/1	460/3	N/A	0	0.5	\$ 10,886.88
13	Pleasanton Middle School	Building 300	Split/HP	Carrier	Hori.	38YH0600DL	0390E18388	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
14	Pleasanton Middle School	Building 300	Split/HP	Carrier	Hori.	38YH0600DL	0590E29951	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
15	Pleasanton Middle School	Building 300	Split/HP	Carrier	Hori.	38YH0600DL	0590E29935	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
16	Pleasanton Middle School	Building 300 CH	Split/HP	Carrier	Hori.	38YH0420DL	4989E01198	3.5	1989	4	208/230/1	460/3	N/A	0	0.5	\$ 10,886.88
17	Pleasanton Middle School	Building 400, Classroom	Split/HP	Carrier	Upflow	40BA009	N/A	7.5	1990	7.5	208/230/1	460/3	N/A	0	1	\$ 20,412.90
Thermostat Settings																Notes and Conditions and extras
1	H:	C:	No strip heaters on all heat pumps													
2	H:	C:	Original supplied audit indicated 5 ton split units for (2) Building 400 Classroom units. Actual size for this units is 7.5 tons													
3	H:	C:	As requested by Customer, repair economizer systems for the (2) 7.5 ton split systems in Building 400 Classrooms including actuators, wiring and labor.													
4	H:	C:	As requested by Customer, new secondary condensate lines to be run to the outside of the building. This was not originally included in the project.													
5	H:	C:	Add new minimum strip heaters to (42) split heat pump units per Customers direction. Upgraded electrical service to these strip heaters is not included in tis project													
6	H:	C:														
7	H:	C:														
8	H:	C:														
9	H:	C:														
10	H:	C:														
11	H:	C:														
12	H:	C:														
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14	H:	C:														
15	H:	C:														
16	H:	C:														
17	H:	C:														

Priority: 1 - Replace Now, 2 - Within 3-5 years, 3 - Within 5 - 10 years, 4 - over 10 years, 5 - New

Configuration= SD Side Discharge, DF Downflow, Hori Horizontal

I.E.S. HVAC Audit Form																Page: 2 of 3
District: Pleasanton USD																Date: 12-5-18
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	School Site	Classroom # or Area Served	Unit Type	Manufacturer	Configuration	Model #	Serial #	Existing Nominal Tons	Year Installed	New Nominal Tons	Electrical Service Indoor Units	Electrical Service Outdoor Units	Heating Load, MBH In/Out	Electrical Heater, KW	Supply Air Blower, HP or AMP.	IES Price
1	Pleasanton Middle School	Building 400, Classroom	Split/HP	Carrier	Upflow	40BA009	N/A	7.5	1990	7.5	208/230/1	460/3	N/A	0	1	\$ 20,412.90
2	Pleasanton Middle School	Building 400, CH	Split/HP	Carrier	Hori.	40QH060320	N/A	5	1989	5	208/230/1	460/3	N/A	0	1	\$ 13,608.60
3	Pleasanton Middle School	Building 400, CH	Split/HP	Carrier	Hori.	40QH060320	N/A	5	1989	5	208/230/1	460/3	N/A	0	1	\$ 13,608.60
4	Pleasanton Middle School	Building 500, CH	Split/HP	Carrier	Hori.	40QH060320	N/A	5	1989	5	208/230/1	460/3	N/A	0	1	\$ 13,608.60
5	Pleasanton Middle School	Building 500, CH	Split/HP	Carrier	Hori.	40QH060320	N/A	4	1989	4	208/230/1	460/3	N/A	0	1	\$ 10,886.88
6	Pleasanton Middle School	Building 600	Split/HP	Carrier	Hori.	38YH060600DL	1090E02557	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
7	Pleasanton Middle School	Building 600	Split/HP	Carrier	Hori.	38YH060600DL	0390E18392	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
8	Pleasanton Middle School	Building 600	Split/HP	Carrier	Hori.	38YH060600DL	1090E02560	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
9	Pleasanton Middle School	Building 600 CH	Split/HP	Carrier	Hori.	38YH042600DL	4989E01191	3.5	1989	4	208/230/1	460/3	N/A	0	0.5	\$ 10,886.88
10	Pleasanton Middle School	Building 600	Split/HP	Carrier	Hori.	38YH060600DL	1090E02556	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
11	Pleasanton Middle School	Building 600	Split/HP	Carrier	Hori.	38YH060600DL	1090E02552	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
12	Pleasanton Middle School	Building 600 CH	Split/HP	Carrier	Hori.	38YH042600DL	4989E01204	3.5	1989	4	208/230/1	460/3	N/A	0	0.5	\$ 10,886.88
13	Pleasanton Middle School	Building 600	Split/HP	Carrier	Hori.	38YH060600DL	N/A	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
14	Pleasanton Middle School	Building 700	Split/HP	Carrier	Hori.	38YH060600DL	1090E02542	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
15	Pleasanton Middle School	Building 700	Split/HP	Carrier	Hori.	38YH060600DL	1090E02544	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
16	Pleasanton Middle School	Building 700 CH	Split/HP	Carrier	Hori.	38YH042600DL	3988E23859	3.5	1988	4	208/230/1	460/3	N/A	0	0.5	\$ 10,886.88
17	Pleasanton Middle School	Building 700	Split/HP	Carrier	Hori.	38YH060600DL	0590E29933	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
Thermostat Settings																Notes and Conditions and extras
1	H:	C:	Indoor units are 40 QHS													
2	H:	C:	No strip heaters on all heat pumps													
3	H:	C:	Original supplied audit indicated 5 ton split units for (2) Building 400 Classroom units. Actual size for this units is 7.5 tons													
4	H:	C:	As requested by Customer, repair economizer systems for the (2) 7.5 ton split systems in Building 400 Classrooms including actuators, wiring and labor.													
5	H:	C:	As requested by Customer, new secondary condensate lines to be run to the outside of the building. This was not originally included in the project.													
6	H:	C:	Add new minimum strip heaters to (42) split heat pump units per Customers direction. Upgraded electrical service to these strip heaters is not included in tis project													
7	H:	C:														
8	H:	C:														
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Priority: 1 - Replace Now, 2 - Within 3-5 years, 3 - Within 5 - 10 years, 4 - over 10 years, 5 - New

Configuration= SD Side Discharge, DF Downflow, Hori Horizontal

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District: Pleasanton USD																Date: 12-5-18
																Auditor: RAM
	School Site	Classroom # or Area Served	Unit Type	Manufacturer	Configu ration	Model #	Serial #	Existing Nominal Tons	Year Installed	New Nominal Tons	Electrical Service Indoor Units	Electrical Service Outdoor Units	Heating Load, MBH In/Out	Electrical Heater, KW	Supply Air Blower, HP or AMP.	IES Price
1	Pleasanton Middle School	Building 700	Split/HP	Carrier	Hori.	38YH060600DL	1090E02553	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
2	Pleasanton Middle School	Building 700	Split/HP	Carrier	Hori.	38YH060600DL	1090E02548	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
3	Pleasanton Middle School	Building 700	Split/HP	Carrier	Hori.	38YH060600DL	N/A	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
4	Pleasanton Middle School	Building 700 CH	Split/HP	Carrier	Hori.	38YH042600DL	4989E01196	3.5	1989	4	208/230/1	460/3	N/A	0	0.5	\$ 10,886.88
5	Pleasanton Middle School	Office	Split/HP	Carrier	Hori.	38YH036600DL	0490E19829	3	1990	3	208/230/1	460/3	N/A	0	0.5	\$ 8,165.16
6	Pleasanton Middle School	Office	Split/HP	Carrier	Hori.	38YH048610DL	5189E25640	4	1989	4	208/230/1	460/3	N/A	0	0.75	\$ 10,886.88
7	Pleasanton Middle School	Office	Split/HP	Carrier	Hori.	38YH060600DL	0590E29937	5	1990	5	208/230/1	460/3	N/A	0	0.75	\$ 13,608.60
8	Pleasanton Middle School	Counceling	Split/HP	Carrier	Hori.	38YH048610DL	5189E25659	4	1989	4	208/230/1	460/3	N/A	0	0.75	\$ 10,886.88
9																
10																
11																
12																
13																
14																
15																
16																
17																
Thermostat Settings								Notes and Conditions and extras								
1	H:	C:	No strip heaters on all heat pumps													
2	H:	C:	Original supplied audit indicated 5 ton split units for (2) Building 400 Classroom units. Actual size for this units is 7.5 tons													
3	H:	C:	As requested by Customer, repair economizer systems for the (2) 7.5 ton split systems in Building 400 Classrooms including actuators, wiring and labor.													
4	H:	C:	As requested by Customer, new secondary condensate lines to be run to the outside of the building. This was not originally included in the project.													
5	H:	C:	Add new minimum strip heaters to (42) split heat pump units per Customers direction. Upgraded electrical service to these strip heaters is not included in tis project													
6	H:	C:														
7	H:	C:														
8	H:	C:														
9	H:	C:														
10	H:	C:														
11	H:	C:														
12	H:	C:														

Priority: 1 - Replace Now, 2 - Within 3-5 years, 3 - Within 5 - 10 years, 4 - over 10 years, 5 - New

Configuration= SD Side Discharge, DF Downflow, Hori Horizontal

I.E.S. HVAC Audit Form															Page: 1 of 1
District: Pleasanton USD															Date: 12-5-18
															Auditor: RAM
	School Site	Classroom # or Area Served	Unit Type	Manufacturer	Configuration	Model #	Serial #	Existing Nominal Tons	Year Installed	New Nominal Tons	Electrical Service	Heating Load, MBH In/Out	Electrical Heater, KW	Supply Air Blower, HP or AMP.	IES Price
1	Pleasanton Middle School	Building 400, Classrooms	Pkg/GE	Carrier	DF	009 (N/A)	N/A	7	1990	7.5	460/3	150/120	N/A	1.5	\$ 20,413.02
2	Pleasanton Middle School	Building 400, Classrooms	Pkg/GE	Carrier	DF	009 (N/A)	N/A	7	1990	7.5	460/3	150/120	N/A	1.5	\$ 20,413.02
3	Pleasanton Middle School	Building 400, Classrooms	Pkg/GE	Carrier	DF	009 (N/A)	N/A	7	1990	7.5	460/3	150/120	N/A	1.5	\$ 20,413.02
4	Pleasanton Middle School	Building 400, Classrooms	Pkg/GE	Carrier	DF	009 (N/A)	N/A	7	1990	7.5	460/3	150/120	N/A	1.5	\$ 20,413.02
5	Pleasanton Middle School	Building 400, Classrooms	Pkg/GE	Carrier	DF	005 (N/A)	N/A	4	1990	4	460/3	74/59	N/A	0.5	\$ 10,886.74
6	Pleasanton Middle School	Building 400, Classrooms	Pkg/GE	Carrier	DF	005 (N/A)	N/A	4	1990	4	460/3	74/59	N/A	0.5	\$ 10,886.74
7															
8															
9															
10															
11															
12															
Thermostat Settings					Notes and Conditions										
1	H:	C:	Np strip heaters on all heat pumps												
2	H:	C:													
3	H:	C:													
4	H:	C:													
5	H:	C:													
6	H:	C:													
7	H:	C:													
8	H:	C:													
9	H:	C:													
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12	H:	C:													
13	H:	C:													
14	H:	C:													
15	H:	C:													
16	H:	C:													
17	H:	C:													

Priority: 1 - Replace Now, 2 - Within 3-5 years, 3 - Within 5 - 10 years, 4 - over 10 years, 5 - New

Configuration= SD Side Discharge, DF Downflow

5. Project Schedule

IES has provided a revised project schedule based on a board approval date of this proposal on February 12th, 2019.

PLEASANTON UNIFIED SCHOOL DISTRICT MIDDLE SCHOOL HVAC PROJECT

