## Cooling Pilot Project Hillsborough City School District

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## **Project Specifics**

- Objectives
- Scope of Work
  Status Update
- Schedule
- Budget



- Objectives
  - Determine if ceiling fans will provide students and teachers with thermal comfort and mitigate need for air conditioning.
  - Determine number and size of fans that achieve the best results in the different size, shape, and locations of classrooms.



#### Scope of Work

- Install ceiling fans in 4 classrooms at each campus as follows:
  - Crocker: Second Floor Classrooms
    - Classrooms 9 and 10 with (1) of the 84" Haiku in each classroom.
    - Classrooms 14 and 15 with (2) of the 52" Haiku L in each classroom.
  - North: Classroom on different locations and configurations
    - Classrooms 10 and 20 with (1) of the 84" Haiku in each classroom.
    - Classrooms 14 and 27 with (2) of the 52" Haiku L in each classroom.



- Scope of Work continued...
  - South: Pod of 4 Classrooms
    - Classrooms E, F, G, and H to have (2) of the 54" Haiku L
    - Common Area in middle to have one 84" Haiku
  - West: Classroom on different locations and configurations
    - Classrooms 1 and 20 with (1) of the 84" Haiku in each classroom.
    - Classrooms 6 and 16 with (2) of the 52" Haiku L in each classroom.
  - Install added insulation and vents at Crocker second floor attic.



- Project Status Update
  - 27 fans have been ordered and are being shipped.
  - We have received installation proposals from 3 different contractors:
  - 1. Inter Mountain \$59,499
  - 2. Star Energy \$18,707
  - 3. Strawn Construction <\$TBD>



- Schedule Update
  - Installation is to occur over Spring Break.
  - Evaluations of effectiveness from Spring Break through end of school year (June 2020).
  - Determination of next steps in June 2020.



- Budget Update
  - Approved Budget \$86,000
  - Purchase order for fans is \$25,474.
    - Two of the fans were at no cost from Norman Wright Company, West Parent
  - Installation \$18,707 (Star Energy)
  - Management Fees \$10,000
  - Contingency \$10,000
  - Remaining budget \$21,819



## **Project Evaluation**



Fans & Ventilation Effectiveness Rubric

Link to Rubric

- Qualitative Rubric
- Pre and Post Conversations
- Study and Control Groups
  - Study Group has new fans and Control Group will use air from heating units (without the heat)



California Uniform Public Construction Cost Accounting Act CUPCCAA



#### Procurement via CUPCCAA

- CUPCCAA provides an alternative ("informal") process for procuring public project construction work and related materials, supplies, subcontracts and equipment.
- HCSD has already adopted a resolution to be able to use CUPCCAA.



#### **CUPCCAA** Limits

- CUPCCAA limitations:
  - \$60,000 or less can be performed by a "force account," negotiated contract or purchase order from a single vendor.
  - Over \$60,000 and up to \$200,000 may be procured via the CUPCCAA informal process from 3 bidders.



#### Procurement Options: CUPCCAA vs. Public Bid

- CUPCCAA procurement provides a more streamlined process over Public Bid:
  - Increased force account/PO limit from \$15k to \$60k.
  - Simplified process for bidding of projects under \$200,000.
  - Expedited contracting for projects under \$200,000 (reduced time, effort and expense).



#### Procurement: Public Bid

- Public Contract Code (PCC) Section 20111(a) requires school districts to competitively bid any contracts involving an expenditure of more than \$95,200.
  - Purchase of equipment, materials, or supplies to be furnished, sold, or leased to the school district.
  - Services that are not construction services.



### Next Steps and Timeline



#### Next Steps and Timeline

- Once the fan are installed over Spring Break, the effectiveness of the project will be evaluated based on a predetermined rubric in June 2020.
- After determining the effectiveness of the fans based on feedback from study participants and a control group, staff will make a recommendation to the Board on next steps.
- Should we not have hot weather in the spring, the pilot may need to continue into the fall months.

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#### Next Steps and Timeline

- Possible recommendations may include purchasing fans for the remaining 69 classrooms and other spaces including offices, libraries, etc...
- An additional recommendation could include either taking a multi-phased approach or a single-phased approach in project expansion.



#### Multi-phased Approach - CUPPCCA

- If decided to take a multi-phased approach to address only the highest priority classrooms, then CUPPCCA procurement could be used if under \$200k.
- CUPPCCA contracting can reduce costs by eliminating need for developing bid documents and costs to publicly bid.
- CUPPCCA contracting can save time by not requiring on-boarding architect and engineer, time to prepare bid documents, and conducting formal public bid.

#### Single-phased Approach - Public Bid

- The estimated costs to install in the remaining classrooms is approximately \$400k to \$500k.
- If a single-phase approach is desired, then the project must be publicly bid.



#### One Contract Approach - Public Bid

Public bidding will require additional expenses and time for creating the bid documents and performing the bidding process in accordance with PCC.

PCC prohibits "bid-splitting" to reduce costs for the purposes of avoiding compliance with the PCC requirements.



#### Summary

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If an evaluation of the pilot takes place in early June (based on enough hot weather days):

- Data will be shared with the Board at the second June Board Meeting.
- Should the pilot prove successful, staff will present a recommendation on next steps to the Board.
  - If a multi-phased approach is recommended work can be completed in late summer or early fall
  - If a single-phase approach is recommended, work can be completed in late fall or early winter.

### Thank you!

### Q&A

