

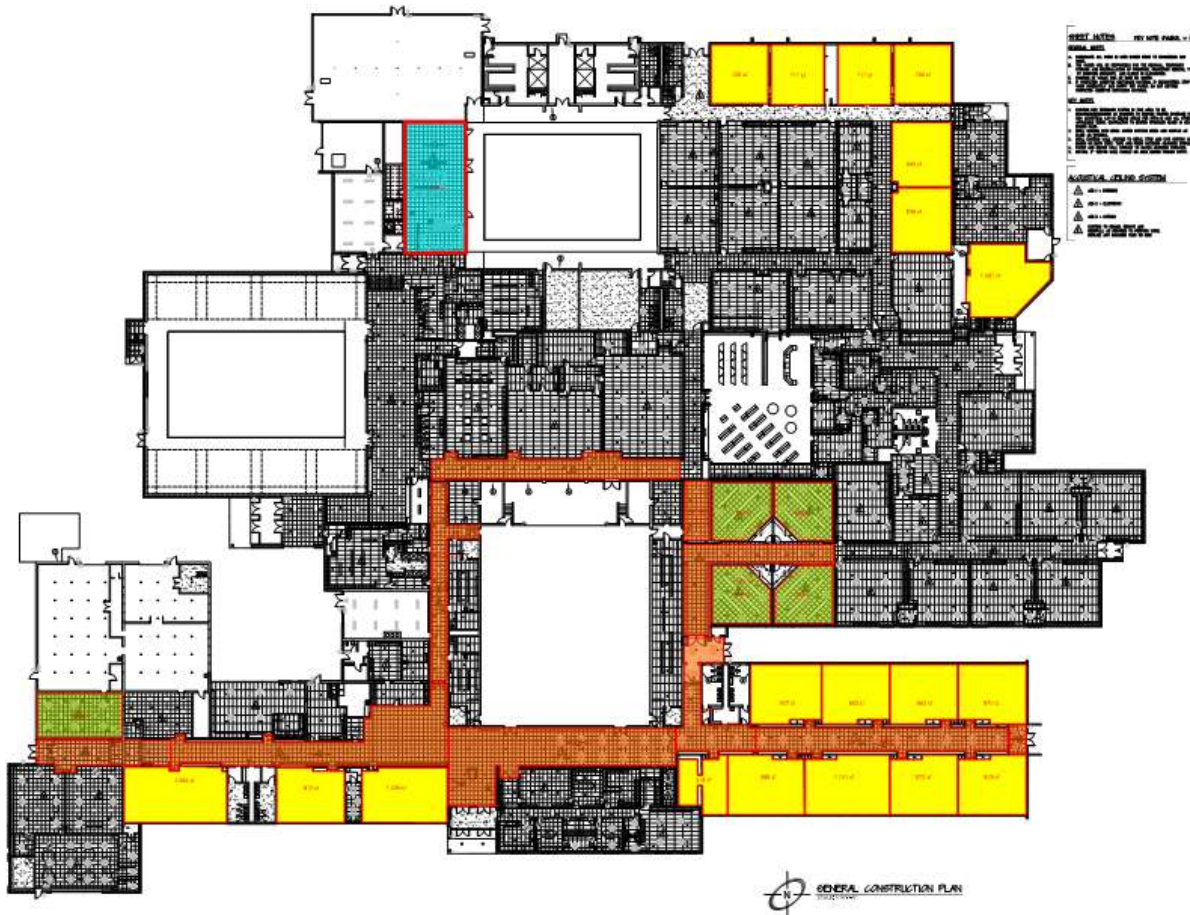
## UPDATE ON HVAC PROJECT

February 3, 2016

- Preliminary Schedule for Design/Bid/Build:
  - 1/15/16 - 95% CDs for owner review
  - 1/22/16 - Comments to AES
  - 2/1/16 - 100% CDs / out for bid
  - 2/15/16 - On site pre-bid walk through
  - 2/25/16 - Bid date (3 weeks for bidding) @ 2:00 p.m. in Board Room
  - 3/3/16 - Contractor selection/contract
  - 3/7/16 - Begin construction process
  - 5/12/16 - Begin on site construction
  - 12/31/17 - Substantial Completion
- Doug Beal has been assigned as project manager for our project. He has a degree in architecture and construction management with a wealth of experience in this area.
- Asbestos removal (if it exists and it potentially does on piping in mechanical room) will be done by owner outside of this contract of work.
- Contractor area has been identified.
- Phasing plan has been developed.
  - Phase 1** consists of work to be completed during Summer of 2016. This would include: Placement of all roof RTU's (approx.. 48 units including curbs, cuts, etc.), installing new electrical service (2x), replace gas service and gas pipe on roof, installation of new electrical panels and conduit on roof, demo and new HVAC, ceiling, lights, and work in old gym, HS front offices, cafeteria, ELE office and media ???
  - Phase 2** consists of work to be completed during academic year. Existing mechanical remains operational. Classroom tie-ins. No more than 2 classrooms in HS and 4 classrooms in elem being worked on at any one time.
  - Phase 3** consists of work to be completed summer of 2017. Demo of ceilings in corridors, removal old mechanical, reinstall of new and existing ceilings, project clean-up and closeout, complete installation and testing of new fire alarm system, removal of old fire alarm system, ELE offices and media???, civil work.
- We have identified the internal relocation areas and the need to clear out some spaces to realize these relocations. Direction has been given to principals and they provide direction to their staffs accordingly. It has been indicated to us that 2 weeks is the time frame for a classroom to be relocated.
- Local advertisement for bids in Fremont Tribune and Arlington Citizen and AES handles marketing by contacting vendors and publishing on state vendor sites.
- Cost of new electrical service for elementary is \$25,462 of which the district is responsible for \$10,861 and the cost of high school relocation service is \$8,209.
- See page 2 for ceiling plan.
- See page 2 for decisions on what to abandon in place and recommendations from engineers. Building and Grounds committee is still deciding what to do with 'orange' areas.
- Leaving current kitchen exhaust as existing.
- Decided to bid the control system with the option to be wireless.

Below is a graphic showing the proposed ceiling plan.

- The Yellow areas indicated new ceilings and new light fixtures.
- The Blue area indicates new ceiling and new light fixtures in the Kitchen.
- Green is new ceiling pads only. (Let me know if we should show identify more of these areas on the plan.)
- Orange corridor area is new ceiling grid and pads, with refurbish existing light fixtures as well as demolition of old piping above ceiling.



We are recommending that the corridor area indicated in Orange be replaced for the following reasons:

1. New HVAC system installation will require that some of the existing piping and equipment above the ceiling be demoed to allow installation.
2. The remaining piping above the ceiling will no longer be in use after the new systems are operational. From a maintenance perspective it is always better to get rid of abandon systems to avoid future confusion.
3. Replacement will improve the appearance of the front entry of the building. Currently the corridor has multiple elevations and appears somewhat cobbled together. Many of the ceiling tiles are water damaged or chipped up.
4. At some point these ceiling will need to be replaced. Better to get this completed while other work is being done, than deferring the major disruption for later.

**Estimated cost to replace the area in Orange is between \$85,000 to \$100,000.**

As discussed on Jan 28, we are abandoning the following items in place.

- Piping in tunnels,
- Corridor in wall Cabinet Unit Heaters,
- High School Cabinet Unit Heaters,
- Mechanical equipment and ductwork in Cafeteria soffits,
- Piping above hard ceilings.