MEETING NO.: 013
LOCATION: Sterling High School
DATE / TIME: May 15, 2014, 9:00 am
ATTENDEES: Dale Mitchell, Sterling HS – Principal; Kedrick Wright, HISD – Design; David Funk, HISD – Planning; Marvin Stone, HISD/Heery – Program Management; Ashlea Hogancamp, SHW Group – Design Team; Steve Parker, SHW Group – Design Team; Jonathan Fountain, SHW Group – Design Team; Eddie Smith, Cadence McShane – CMAR; Richard Whiteside, MIAT; Joshua Harris, JROTC; Rev. A.L. Hickman, HISD N.C.C.F.; Norris Groves, Sterling PAT; Shone Dobbs, Sterling Student; Steve Parker, SHW Group – Design Team; Jonathan Fountain, SHW Group – Design Team; Eddie Smith, Cadence McShane – CMAR; Richard Whiteside, MIAT; Joshua Harris, JROTC; Rev. A.L. Hickman, HISD N.C.C.F.; Norris Groves, Sterling PAT; Shone Dobbs, Sterling Student; Steve Parker, SHW Group – Design Team; Jonathan Fountain, SHW Group – Design Team; Eddie Smith, Cadence McShane – CMAR; Richard Whiteside, MIAT; Joshua Harris, JROTC; Rev. A.L. 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PURPOSE: The meeting discussions focused on the Aviation Hangar + CTE Spaces and Components, Baylor Medical Clinic Program revisions, and Life Skills revisions.

AGENDA ITEMS:

- Project Update
- Design Updates
- What to Expect at the next PAT Meeting

NOTES:
Discussion
1. Meeting began with general introductions.
   a. Attendees were present from City of Houston, “STRIVE” – Crime Prevention through Environmental Design. They will be doing projects with the campus and were invited to join the PAT meetings by Dave Funk from HISD.
2. Design Updates:
   a. Miscellaneous Discussions for Aviation:
      i. Principal Mitchell plans for the building to be used 24/7 in the future to allow for public use of the aviation program for certification, etc.
      ii. Richard Whiteside is to confirm if 220V is correct or if 208V will work.
      iii. Fire Extinguishers to be discussed for each space. Richard Whiteside to send data for any specific type of Fire Extinguisher for each Aviation room.
      iv. SHW questioned if there will be any spray painting, welding (outside of the Welding room), torching, cutting, re-fueling in the Hangar.
1. Richard Whiteside confirmed that none of these activities will occur inside of the building.

b. Hangar:
   i. Each Lab Area to include (25) students.
   ii. 220 Power is located at the west, north and east wall as requested.
   iii. The Hangar will include band saws, drill presses, with 120V needs. (Owner Furnished – Owner Installed (OFOI)). The request is for a ‘fair amount’ of 120V power along the remainder of the walls by Richard Whiteside.
   iv. Band Saw will be cutting aluminum, and will have a standard dust collection built in. (OFOI)
   v. Each Lab area should have (2) 6’x4’ metal cabinets, with locks, (OFOI) within the hangar for a total of (10) cabinets.
   vi. The desired cabinet location is near the Lab stations.
   vii. There is no need for maker boards within the Hangar.
   viii. 6’ wide x 7’ tall openings will work for access to the Electricity Air Science and Air Frame / Rivet Room.

c. Electricity Air Science:
   i. Smart Board/White Board need to be provided.
   ii. The space will have (13) 2x4 work stations; each to have overhead power drops provided, mobile (OFOI) and laid out as discussed.
   iii. Each classrooms needs (2) 2x4 metal cabinets, lockable. (OFOI)
   iv. This SF does not match the Ed Specification exactly. It has been modified to meet the Aviation program needs. HISD is okay with this revision.
   v. Standard 120V electricity will suffice at the walls.
   vi. Coat Hooks will be provided at each room.
   vii. The window at the north wall will be deleted.

d. Air Frame/Rivet Room:
   i. A Smart Board/White Board is to be provided in the Sheet Metal Shop/Rivet room (typical classroom).
   ii. The room includes locations for Foot Shear, Engine Wheel, B&P Break, Roller, and Metals Storage. (OFOI)
   iii. No power is needed for this equipment. It is all manual.
   iv. The space includes (13) 2x4 work tables (OFOI) laid out in room.
   v. No power is needed at 2x4 work tables, but compressed air hoses will need to be dropped from ceiling.
   vi. The compressor for this room is a 60 Gallon, 125 PSI unit. (OFOI)
   vii. There is the opportunity to share a larger a compressor between Auto Technology and Aviation. Richard Whiteside said this would be the best option.
   viii. One (1) door to compressor room from the corridor will be provided, adjust door location further north and adjust Auto Technology classroom door to allow access to the compressor room from the corridor.
   ix. It has been determined that standard 120 volt electrical outlets will suffice on the walls of this area.
   x. Richard Whiteside is to send product data for the equipment used at the Rivet Room for (Rivet Guns). About 150 – 200 hours of student’s program will be in Riveting.
1. An Internet search found that Rivet Guns may have 130 dB of noise associated with it. SHW is to review with Acoustician for sound mitigation options available that fit within budget.

2. Richard Whiteside stated that ear protection is required in the Rivet Room. Ear and eye protection will be signed out of the Tool Crib.

3. Principal Mitchell stated that the louder activities could be handled through scheduling and notification by instructors to the campus.

   xi. Provide sound rated door at the corridor of the Rivet Room.

e. ALC NDT Room:
   i. 220V for Magniflux (has black light and ultrasound curtain) – Richard Whiteside is to verify and provide on Monday 05/19. (OFOI)
   ii. Richard Whiteside to confirm if standard 120V around the walls is acceptable.
   iii. There will need to be (2) 2x4 metal cabinets in room. (OFOI)
   iv. There will need to be a 6’ dry-erase board only. No projector or Smart Board is needed.
   v. The program will be using ‘spray time’ chemicals, so it will need an exhaust fan – Cleaner Developer and Penetrant. The space will need a chemical cabinet (4x2) to hold spray cans. (OFOI).
   vi. Two gallons (maximum) Mineral Spirits associated with Magniflux will remain in the machine.
   vii. There will need to be a self-contained, eye wash within the Aviation Learning Center NDT room (OFOI), bolted to the wall near the door. There was a request is to have two (2) self-contained eye wash stations in the Aviation areas.

f. Welding:
   i. Per program, 200 SF of storage which will be needed per Richard Whiteside.
   ii. Information is forthcoming from Richard Whiteside regarding the Welding Booths model. Previously sent booth information is what is currently being incorporated into the layout/design.
   iii. The dividing wall between ‘classroom’ and ‘welding booth room’; which is fire rated, works well for program.

g. Auto Technology:
   i. The square footage grew to include all of the requirements of the program, which exceeded the Ed Spec programmed SF. HISD is okay with this adjustment.
   ii. Mr. Chilo was not present at the meeting, but will need to review very soon to confirm layout and components.

h. Tool Crib:
   i. There will be an overhead grille at the counter from the Aviation to Tool Crib.
   ii. No window is needed at the north wall.
   iii. There needs to be ten (10) cabinets within the room. (OFOI)
   iv. There will need to be desk for keeping up with inventories, including providing power and data. (Desk is OFOI).
   v. Provide standard power around the room.
   vi. Students will never access the Tool Crib; only teachers.
vii. Richard Whiteside to provide photos of their current tool crib to Sterling High school, to show an entire wall to be transparent/chain link/metal mesh, with a counter at the center and operable grille above counter.

viii. A 4'-0" pedestrian door at Tool Crib will suffice.

ix. Reduce SF closer to 900 SF and give SF to the Down Draft Table Room/ALC Composite Room.

x. There are no ceiling height restrictions.

i. Down Draft Table Room/ALC Composites Room:
   i. Two (2) 4x8 Down Draft Tables (OFOI) need to be provided. Preference is for three, but the room will only accommodate two with adequate clearance surrounding the tables.
   ii. The tables have self-contained dust collection.
   iii. 460V 3-phase power is needed.
   iv. Self-contained eye wash stations need to be provided.
   v. Standard 120V power is to be provided throughout room.
   vi. Richard Whiteside will send specifics of the DenRey model.
   vii. A large door to accommodate moving equipment in/out for maintenance will need to be provided. A 4'-0" door should suffice.
   viii. Epoxy, etc. will be used, but chemical storage is not needed. Nothing beyond the standard room exhaust will be needed.
   ix. There are no ceiling height restrictions.
   x. There are no significant noise issues.

j. Gas Holding Storage area at exterior:
   i. Aviation needs Mig and Tig welding, not stick welding.
   ii. Oxygen and Acetylene is not as great of a need for the Aviation program. Auto Tech will need to confirm quantity needed.
   iii. Mig/Tig welding power requirements will be sent by Richard Whiteside.
   iv. Provide bollards surrounding the tank Oxygen and Acetylene storage area walls.

k. Incorporation - Baylor Medical Clinic Program based on the 05/02 meeting with Baylor, HISD, Sterling Nurse, the following revisions have occurred:
   i. Administration Offices will be located in the west end of the Administration area near the secured entry vestibule. IT Support Office and the Building Communications Room (BCR) are also located within this west Administration area. The BCR is required by HISD to be located in this area.
   ii. Shared Waiting Area for Baylor and Sterling Aviation High School Clinic.
      1. It should be able to accommodate 6-8 chairs for waiting.
      2. The area will allow for reception and visual control of waiting room. Low solid walls, and glass above for visual and audible control, will enable the Baylor Clinic to conduct initial interviews / conversations.
   iii. Two (2) exam rooms will be provided for Baylor.
      1. The laboratory for Baylor will include counters and a blood draw chair.
      2. “Pharmacy closet” is to have a refrigerator with a freezer, tied to emergency power, which will contain prescriptions and immunizations plus a shelving unit adjacent to refrigerator.
      3. The Sterling Nurse will have an office and two (2) exam rooms
         a. The exam rooms will have mobile storage carts (OFOI).
b. Within the clinic corridor, there will be a refrigerator with a lock, a sink next to it, and overhead cabinets above the sink.

4. The two clinics will share two (2) toilet rooms and a waiting / reception area.

5. The small conference room and the storage room originally programmed have been adjusted.
   a. The storage room was reduced to include the Baylor clinic.
   b. The conference room will now be housed in the Flex / Grad Lab.

6. The New Mother’s Room is now accessed from the clinic, which everyone agreed was ideal.

7. The community room will remain close to the stairs, only accessible from the Main Corridor / Learning Runway.

8. Only adults have badge access for locked doors throughout campus.

I. Life Skills Revisions:
   i. Two (2) Life Skills areas are located on the first floor.
      1. There is a shared restroom, storage and kitchen between the two rooms.
      2. Provide doors with windows in the kitchen.
      3. Visual Arts classrooms remain in same location; southwest, with access to the exterior courtyard at south.
      4. The Computer Storage and Computer Repair rooms moved to the 3rd floor within a classroom module. A Tech Lounge area outside of these computer rooms will be available and can accommodate media and dining use.

WHAT TO EXPECT AT THE NEXT PAT MEETING:
1. At the next regular PAT meeting, we will continue to discuss project updates and design specifics.

ACTION ITEMS:
13-01 SHW is to forward parking variance information to Kedrick Wright and Principal Mitchell.
13-02 SHW is to forward plans to David Funk to update the Education Specifications based on revised / added programs to school.

NEXT MEETINGS SCHEDULED:
1. The next regular PAT Meeting is scheduled for June 19, 2014 @ 9:00am.

Please review the meeting minutes and submit any changes or corrections to Marvin Stone. After five (5) days, the minutes will be assumed to be accurate.

Sincerely,

Marvin Stone III
Construction & Facility Services, Project Management
HISD – Construction & Facility Services
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Phone: (713) 556-9265