HMC Architects

**Meeting Minutes 24**

DATE: September 20, 2013

PROJECT: San Bernardino Community College District
**Valley College Gymnasium and Athletic Facilities**

PROJECT #: 5007002-000

PRESENT: Sweta Dedania (Kitchell/BRj)
Scott Stark, Kevin Emerson, Sue Crebbin, Dave Rubio (SBVC)
Brad Glassick (HMC)

PURPOSE: The purpose of this meeting was to review the project with the Athletics Department to reacquaint the team with the scope in the project and to discuss the proposed campus schedule and alternate priority.

ITEMS DISCUSSED:

24.1 **Project Schedule**: Kitchell shared that the current proposed schedule is to have DSA approval in early 2014 in order to begin bidding. This would allow the project to be awarded in Spring of 2014 with construction starting in April/May. This is a tentative schedule as the project is still in DSA backcheck. HMC will be meeting with DSA in order to discuss the requirements for backcheck with the DSA structural engineer.

*Action/Responsibility:* ***HMC/SBVC***

24.2 **Alternates:** In order to provide flexibility at the award for a rising construction market, the project will include three alternates: the deletion of the visitor bleacher, deletion of the visitor field building and the deletion of the home field building. The intent is to bid the entire project and only take the alternates if bids come in higher than expected. The Athletic Department prioritized the alternates in the following manner, in the order of most important to retain in the project to the least: 1) visitor bleacher; 2) visitor field building; and 3) home field building. HMC will develop the alternates with this numbering throughout the set.

*Action/Responsibility:* ***HMC***

24.3 **Project Review:** HMC reviewed the project floor plans with the team for the purpose of refreshing the College on the scope and layout of the project buildings. The following items were discussed related to the floor plans.

- The third floor office layout and sizes were reviewed. HMC shared that the layout is based on the approved program which gives a 90 sq. ft. office for faculty and then an 80 sq. ft. office for head coaches. There is also a 4 person shared office and a 2 person shared office. The office size was derived from the District standards and during design this standard was not to be modified. The Athletic Department requested if it would be possible to have some modifications in this area to account for their uses. The Athletic Department will mark up the third floor office plan and provide it to the College administration for approval if the changes fall within the range of the standards.

- HMC reviewed the current floor finishes per space in the project (see attached). The following items reflect the discussion on the floor finishes throughout the project.
    - The College does not want to have adhesive based flooring on the first floor due to past moisture intrusion issues. Creteseal has not been a viable solution in the past. HMC will confirm if the sports flooring is an adhesive based system or if it is ballasted. This will apply to carpet and sheet vinyl systems. HMC will confirm on the plans and specs where this will need to be modified.
    - The Athletic Department noted that concrete was not an appropriate finish in the team rooms due to athletes and cleats. HMC will provide a viable alternate finish.
    - The gym flooring is a bamboo floating floor system with vented perimeter base. The bamboo is DIN rated and is actually harder than typical maple flooring. The Athletic Department noted that this material is acceptable and they have been in gym facilities where it performs well.
    - The College noted that the epoxy flooring in the Business Building is being well received as a high traffic flooring which is easy to maintain.
- Elevators are currently specified as Otis. The specifications will have non-proprietary service language within the specification and all elevators will comply with this item. Kitchell will send HMC the latest specification standards for the elevators on campus. HMC also reviewed that DSA was questioning the current location of one of the elevators at the north end of the building. It was noted that the solution to this would be to move it to the other side of the weight room area. In looking at the elevators overall, HMC shared that one elevator on the south end of the building could be eliminated and still meet accessibility codes. The College took no exception to reducing the number of elevators in the project.
- The College noted that the standard paint finish in corridors and high abuse areas is gloss paint in order to manage better cleanability.
- The project will include the installation of the athletic equipment in the gym spaces such as basketball backstops, volleyball standards and badminton standards. The weight room and fitness center will include the existing equipment. The training room will include a new ice machine and treatment tables. The equipment storage room carts will also be provided in contract along with the washer and dryer for the laundry area. The project will also need to finalize the FFE for the offices and classrooms. HMC will be scheduling time with the College to refine and finalize the FFE portion of the project. For the stadium concession building, the space is being shelled out and furnished with casework and sinks. The refrigerators, freezers, cold storage, microwaves, and other euqipment are not in contract. Utilities have been provided for these pieces of equipment.
- The Athletic Department requested literature on the team room lockers and the equipment room storage system as they could not recall the finish and appearance of these items. HMC will forward these to Kitchell for review by the Athletics Department.
- The College will want to confirm that the telescoping bleacher and wood floor scope is well coordinated to prevent unusual wear and tear on the wood floor from the moving of the bleacher. The College will also want to confirm that the specification is as solid as can be so that the bleacher does not become a maintenance issue.
- In reviewing the site, it was noted that the main pathway from ticketing to the visitor side of the track is via a 4’-0” wide asphalt path. The path is currently accessible but has pinch points at the storage building and electrical enclosure. HMC shared that this portion of the path will not have a permanent fence due to the space limitations but

previously it has been discussed that the College will use temporary measures to block access on to the field. The Athletics Department noted they do not have temporary measures and barricades and this will need to be considered as a project FFE expense.

*Action/Responsibility**:*** ***HMC/Kitchell***

**NEXT MEETING**: The next meeting will be scheduled as needed by the team.

The above notes document our understanding of items discussed in the above referenced meeting. Unless notice to the contrary is received, the notations will be considered acceptable and HMC will proceed with work based on these understandings. Any discrepancies should be brought to our attention within seven (7) working days of receipt.

Submitted by,

**HMC Architects**

Brad Glassick, AIA, LEED AP BD+C
Associate Principal

Attachments:
Attachment A-"Floor Finish Summary"

BG

cc: Michael Villegas (For Distribution)
Ken Salyer (HMC)
File-MM

**GYM FINSIHES SUMMARY**
**HMC Job #5007002**
**SEPTEMBER 20, 2013**

## Gyms and Group Exercise

Plyboo Sports Floor Bamboo Flooring

## Weight and Fitness Rooms

Mondo Sports Flooring

## Team Rooms/Equipment

Polished concrete

## Locker Rooms/Toilet Rooms

Ceramic Tile

## Training Room

Sheet Vinyl

## Classrooms

Sheet Vinyl

## Large Lecture

Sheet Vinyl

## Lobby

Polished Concrete

## Offices

Carpet Tile

HMC Architects

**Meeting Minutes 25**

DATE: November 19, 2013

PROJECT: San Bernardino Community College District
**Valley College Gymnasium and Athletic Facilities**

PROJECT #: 5007002-000

PRESENT: Sweta Dedania, Michael Villegas (Kitchell/BRj)
Scott Stark, Genaro Varga, Johnny Kates, Kris Shafer, Aaron Beaver, Kevin Grishow (SBVC)
Brad Glassick (HMC)
Kirk Anglin, James Del Monaco, Wes McKean (P2S)

PURPOSE: The purpose of this meeting was to primarily review the mechanical aspects of the project with the College and M and O staff.

ITEMS DISCUSSED:

25.1 **Standards Discussion**: HMC reviewed the previous minutes from the meeting of March 2012 in which the standards were discussed with the campus and certain deviations were documented (see attached). Based on these minutes, the following items were discussed:

- It was noted previously that the field buildings were not to be on the campus EMS system. The College requested that the concession building package unit be put on the EMS system also. It is still not necessary to put the other split systems on the EMS system.
- The Atlas system is the campus standard for mass notification. It was noted that this is in the plans and will be reviewed at a future meeting to review electrical items.

*Action/Responsibility:* ***HMC/P2S***

25.2 **Mechanical Systems:** P2S gave an overview of the gym mechanical systems. The system uses chilled water from the central plant and then has boilers within the building. The air handlers then use chilled and hot water to condition the spaces. Large exchange rate spaces use indirect/direct air handlers. The smaller spaces utilize VAV boxes to condition various spaces. Offices of common exposure are linked within the same thermostat. The field buildings primarily use split systems with the concessions building utilizing a high efficiency package unit. Based on this, the team confirmed the following items for the project:

- The central plant piping for the chilled water was revised within the central plant project. Kitchell will provide P2S with the as-builts to confirm the location of the valves as installed.
- The campus wanted to confirm that the boilers within the gym do not require special maintenance or attendance due to their size. The boilers are for the HVAC hot water and also the domestic hot water within the building. P2S will confirm. The system is currently designed around Airco condensing boilers and the campus requested that the same boilers as used on the Business Building be specified. These are Raypac. P2S will confirm if they meet the project requirements.
- VAV boxes need to be accessible for maintenance. The ceiling in the office space is a T-bar ceiling with 2x2 tiles. The 2x2 ceiling will need to be 2x4 to ease accessibility.

- Fire and smoke dampers will need to be easily accessible. P2S will confirm that access panels are correctly coordinated in areas that are not accessible via drop in ceilings.
- The campus preferred thermostat is the ALC Pro. P2S will confirm the specifications are tailored around this while not proprietary as with all other products.
- P2S will need to confirm in the specifications that all VAV boxes are labeled and that labeling occurs on the ceiling grid as to where the VAV is located. As a general note, the College wants to ensure that labeling and as-built documentation is required of the contractor. This will be primarily governed by the general conditions. HMC and P2S will review the project general conditions once they are finalized by Kitchell.
- The flush valves for urinals and water closets shall be hardwired and recessed as opposed to the previously approved battery operated valves.
- Valves, faucets and fixtures need to all be a high quality and durable model. All of these need to have a balance between cost and durability. Chicago is the desired manufacturer. Faucets in public areas will be metered rather than a sensor type.
- Hose bibbs around the building need to be in a lockable access box.
- All floor drains shall be self-priming.
- Water closets are a 1.28 gallon flush as required by code and the urinals are a 1 pint flush model.

*Action/Responsibility**:*** ***HMC/P2S/Kitchell***

24.3 **Architectural Finish:** The team spent a short time discussing some of the architectural finishes and elements within the project. These will be discussed further at a future meeting but the following are the items that were mentioned at the meeting.

- SBVC will forward to Kitchell all of the desired toilet accessories for the project. The soap dispensers will be a surface mount foam dispenser. Some of the standards may not be able to be included in the plans as they will have to comply with all accessibility standards.
- HMC reviewed all of the custodial rooms with the College. They are all sufficiently sized to house the custodial carts. The College will also want to include shelves within each room for the storage of materials. HMC will provide a drawing of each room for the College to review and layout for proper storage shelves.
- HMC reviewed the elevator sizes with the team and illustrated that the desired lift to access the gym lights and ceiling mounted devices would not fit unless the elevator is enlarged to a large freight elevator. This would be a significant cost impact to the elevator. With the lift costing much less, the approach will be for the College to have a lift in the project and for it to be placed on the second floor by the contractor to minimize any need of craning a lift into the building. There is space in the gym storage to store the lift.
- The project will need to provide evac chairs, 1 from the 3rd floor and 2 from each gym.
- The project will need to provide defibulators. The number and location will be confirmed in the next architectural meeting.
- All site handrails shall be stainless steel. They shall not have slanted posts as this was a construction mistake in the early building programs. Posts shall be vertical.
- Fire extinguisher cabinets shall be lockable with breakable glass. The desired model is a fully recessed. HMC will need to confirm from wall thickness if this is possible at all locations. If not, recessed and semi recessed will be specified.

*Action/Responsibility**:*** ***HMC/Kitchell***

**NEXT MEETING**: The next meeting will be scheduled as needed by the team. It was discussed to do a meeting for electrical/AV/telecom and then a separate meeting for architectural finishes confirmation. These two meetings should conclude M and O update meetings.

The above notes document our understanding of items discussed in the above referenced meeting. Unless notice to the contrary is received, the notations will be considered acceptable and HMC will proceed with work based on these understandings. Any discrepancies should be brought to our attention within seven (7) working days of receipt.

Submitted by,

**HMC Architects**

Brad Glassick, AIA, LEED AP BD+C
Associate Principal

Attachments:
Attachment A-"Floor Finish Summary"

BG

cc: Michael Villegas (For Distribution)
Ken Salyer (HMC)
File-MM

HMC Architects

**Meeting Minutes 26**

DATE: December 12, 2013

PROJECT: San Bernardino Community College District
**Valley College Gymnasium and Athletic Facilities**

PROJECT #: 5007002-000

PRESENT: Sweta Dedania, Michael Villegas (Kitchell/BRj)
Scott Stark, Aaron Beaver, Kevin Grishow (SBVC)
Brad Glassick (HMC)
Wes McKean (P2S)

PURPOSE: The purpose of this meeting was to review the electrical power systems aspects of the project with the College and M and O staff.

ITEMS DISCUSSED:

26.1 **Site Distribution**: P2S reviewed the site distribution to the gym and the current configuration of power manholes that will remain in placed along with those to be installed to reroute the power systems through the gym site. The campus took no exception to the current electrical distribution and equipment. The following items were clarified for the site distribution.

- The project will install a selector switch which will allow the gym to be taken off line without affecting other buildings on campus. The gym will be on Site Circuit #1.
- The old interim housing portable area will be reconfigured electrically to clean up that area.
- The campus will confirm that the existing electrical vaults are in good shape prior to the bidding of the project.
- The campus requested that outlets be provided along the building exterior along with having them in the large DG area west of the gym and on the large light fixture in the eastern quad area between the gym and the home bleacher area.
- Site lighting will reuse poles that are currently within the project area and being relocated. These are metal halide fixtures. P2S will use these and also confirm if they can be converted to LED lamps by replacing the head and keeping the pole and base in place. Any new fixtures will be LED. The project will also need to add security site lighting along the soccer field chain link fence behind the visitor bleacher. The College also wants an attic stock of 5 site fixtures provided in the project.
- The site conduit banks shall have red concrete encasement.
- The visitor building is fed from the Central Plant/M&O area. The project conduits will need to be installed so that the new chain link fencing is not impacted.
- The College requested that 10 dedicated circuits be provided at the 50 yard line on the visitor side for use at commencement. These will be on the outside of the track since the infield will not be accessible for site conduit runs. On the home side, there shall be one outlet in the front of the bleachers along with one data outlet. It was also discussed that power would be needed for filming from the area of the concessions building. It was reviewed that the press box has a roof filming area so this is not necessary.

*Action/Responsibility**:*** ***HMC/P2S/SBVC***

26.2 **Building Electrical Systems:** P2S reviewed the building electrical power systems and the College approved of the current designs with the following clarifications.

- The project panels should be specified to be the following and in this order: 1) Square D; 2) Siemens; 3) General Electric. The campus does not want to have Cutler Hammer specified.
- The metering was reviewed with the campus and was acceptable as configured. No other meters will be required. The College did request to confirm if the meters can be tied into the EMS system.
- Lighting will be by T5, T8 and LED fixtures. The emergency egress lighting is powered by a lighting inverter. On these items, the College requested that P2S confirm that the inverter is not oversized and is appropriate for the needs in the building. Also, the lighting control system was discussed at length in order to confirm that there are not excessive maintenance costs for changing dimmable ballasts and switches. P2S will draft a summary of the lighting control system so that the College can review the benefits and future costs in more detail. P2S noted that the system is only using dimmable ballast in the gym area and areas with large window areas to take advantage of the dimming capabilities of the system while not creating excessive costs with ballasts throughout the project.
- The project will not have occupancy sensors in any of the spaces in which equipment needs to be serviced.
- The project conduit in the buildings is all EMT and flex is only allowed within 6' of fixtures.
- The College reviewed the can light cut sheet and noted that the transformer location is acceptable without an access panel.
- The College requested the transformer coils be copper.
- The College discussed providing GFI breakers at all sub breakers in the 480V switchgear. They agreed for now, due to cost, to keep the design as is, with only the main breaker as GFI (required by code). They indicated they may come back to that as a discussion point.

*Action/Responsibility**:*** ***HMC/P2S/Kitchell***

**NEXT MEETING**: The next meeting will be on December 18, 2013 and this meeting will cover the AV and IT systems in the project.

The above notes document our understanding of items discussed in the above referenced meeting. Unless notice to the contrary is received, the notations will be considered acceptable and HMC will proceed with work based on these understandings. Any discrepancies should be brought to our attention within seven (7) working days of receipt.

Submitted by,

**HMC Architects**

Brad Glassick, AIA, LEED AP BD+C
Associate Principal

Attachments:

BG

cc: Michael Villegas (For Distribution)
Ken Salyer (HMC)
File-MM

HMC Architects

**Meeting Minutes 27**

DATE: December 18, 2013

PROJECT: San Bernardino Community College District
**Valley College Gymnasium and Athletic Facilities**

PROJECT #: 5007002-000

PRESENT: Sweta Dedania, Michael Villegas (Kitchell/BRj)
Scott Stark, Rick Hrdlicka (SBVC)
Brad Glassick (HMC)
Kirk Anglin, Ejona Liberti, Barry Grezbik via phone conference (P2S)

PURPOSE: The purpose of this meeting was to review the audio visual and the telecommunications systems of the project with the College and M and O staff.

ITEMS DISCUSSED:

27.1 **Audio Visual Systems**: HMC reviewed the process for generating the current scope of the project related to the AV systems and equipment. In the late DD/early CD phase of the project, HMC and P2S generated a document that listed all of the spaces that required AV equipment, the capabilities needed in those spaces and then the equipment that would be installed to support the capabilities. This was provided to SBVC's Technology Services that confirmed the spaces and capabilities with the Athletics group at the time. HMC provided this final approved list of January 10, 2012 to those in the meeting (see attached). SBVC Technology Services confirmed this approach. The current project documents are based of this document and HMC reviewed with the College that the project documents have a matrix of the equipment and also single line diagrams to thoroughly cover the scope and functionality required for the project. The College confirmed that this appropriately covers the AV scope and the following items clarified the scope for the project.

- All AV equipment will be provided in contract by the contractor, fully installed. The exclusions to this would be computer lab security and actual computers within the project. These will be provided by the College.
- P2S will confirm that the project specifications cover all wiring and cabling for the AV systems. The project documents will reflect that all AV wiring and cabling will be in conduit as it moves from the rack vertically through the wall. Once in the ceiling space, it will be managed with J hooks and not be in conduit. It will not be acceptable to have the wiring on the ceiling tiles.
- Crestron is not the campus standard any longer and the controls shall be SP. The project documents already reflect the SP controls.
- All wall plates shall be stainless steel and sturdy.
- The AV systems will need to be able to stream media, both audio and visual. P2S will confirm what it will take to provide this in all spaces.
- The project is specifying Blu-Ray players as the means of playing media. VCRs are not in the scope.

*Action/Responsibility:* ***HMC/P2S/SBVC***

27.2 **Telecommunication Systems:** P2S reviewed the site routing for the telecommunications systems and noted the new pathways and routing to be provided through the gym site along with the specifications for the fiber and copper. The interim telecommunications routing for the Snyder and Women's Gym was also reviewed. P2S then reviewed the basic networking of the gym BDF and IDF spaces along with the telecommunications for the field buildings. The College approved of the project approach for these items. The following items were further discussed related to the telecommunications for the project.

- In reviewing the gym IDF and BDF spaces, it was noted that the 3rd floor IDF room 314 seemed large. P2S noted that it could be downsized and not affect the amount of equipment in the space. HMC will review and see if the space can be downsized and the additional space allocated in a beneficial manner.
- P2S will need to confirm that labeling of all manholes and telecommunications routing is well covered in the specifications. The College wants to have clear identification to note where telecom conduits are running to throughout the project.
- P2S reviewed the product cut sheet for the power and telecom floor boxes. They were the same box as recently installed in the Business Building. SBVC Technology Services approved of using this once again. Throughout the project, the use of floor boxes will be kept to a minimum.
- The Atlas mass notification system is also a part of the project plans.
- The project plans will provide power for the UPS units but the UPS units will not be a part of the contract documents and will be provided by the College.
- SBVC Technology Services requested an updated set of the telecom and AV plans for a final review. HMC will forward the set along with the specifications in PDF format.

*Action/Responsibility:* ***HMC/P2S***

27.3 **Architectural Finishes:** The team briefly discussed some architectural items that will be more fully covered in a future meeting. HMC noted that the furniture selection process will need to begin so the budget for this aspect can be confirmed. This will take place in January and HMC noted that this would be a good occasion to confirm interior finishes with the College and user group to confirm compliance to any changes from their first approval. The following items were discussed related to the

- The bleacher spec for the telescoping bleachers will need to be reviewed closely. The College noted that it does not desire to have the handrail attachment with butterfly screws as these often are misplaced.
- HMC will verify that the toilet rooms have a hose bibb within a lockable box.
- Recent projects have had rooms without base in spaces such as storage rooms. HMC will confirm that all spaces have a rubber space at minimum.
- The College noted that the durability of wall construction and attachments has been lacking in recent projects. HMC will confirm with the College the wall details for interior walls.

*Action/Responsibility:* ***HMC/P2S***

**NEXT MEETING**: The next meeting will be scheduled in January to begin the furniture selection process for the project. HMC will also review the interior finishes for confirmation at this time with the College and Athletic Department.

The above notes document our understanding of items discussed in the above referenced meeting. Unless notice to the contrary is received, the notations will be considered acceptable and HMC will proceed with work based on these understandings. Any discrepancies should be brought to our attention within seven (7) working days of receipt.

Submitted by,

**HMC Architects**

Brad Glassick, AIA, LEED AP BD+C
Associate Principal

Attachments: Attachment A-"AV Equipment List"

BG

cc: Michael Villegas (For Distribution)
Ken Salyer (HMC)
File-MM

**AV Equipment List**
**HMC Job #5007002**
**January 10, 2012 Revised by Rick Hrdlicka**

## Weight Room

A. Capabilities
1. Broadcast Music
2. Review Films from DVD/Internet
3. Voice Reinforcement
4. Student Tracking

B. Equipment
1. Flat Panel
2. Sound System
    i. Amp
    ii. Speakers
    iii. Wireless Microphone (Handheld and Headmount)
3. Crestron Controller
4. Crestron Button Panel on Wall
5. Wireless Presenter Controls
6. Audio Input
7. DVD
8. Laptop Connection
9. Computer for SARS w/ Card Swipe Keyboard (Owner Furnished)
10. Phone

## Team Rooms

A. Capabilities
1. Broadcast Music
2. Review Films from DVD/Internet
3. Voice Reinforcement
4. Student Tracking

B. Equipment
1. Flat Panel
2. Sound System
    i. Amp
    ii. Speakers
    iii. Wireless Microphone (Handheld and Headmount)
3. Crestron Controller
4. Crestron Button Panel on Wall
5. Wireless Presenter Controls
6. Audio Input
7. DVD
8. Laptop Connection
9. Phone

**Fitness Room**

A. Capabilities
1. Broadcast Music
2. Review Films from DVD/Internet
3. Voice Reinforcement
4. Student Tracking

B. Equipment
1. Flat Panel
2. Sound System
    i. Amp
    ii. Speakers
    iii. Wireless Microphone (Handheld and Headmount)
3. Crestron Controller
4. Crestron Button Panel on Wall
5. Wireless Presenter Controls
6. Audio Input
7. DVD
8. Laptop Connection
9. Computer for SARS w/ Card Swipe Keyboard (Owner Furnished)
10. Phone

**Medium Classroom (Smart Classroom)**

A. Capabilities
1. Smart Classroom
2. Polycom
3. Voice Reinforcement

B. Equipment
1. LCD Projector
2. Projector Screen
3. Document Camera
4. DVD
5. Polycom
6. Cameras
7. Confidence Monitor
8. Sound System
    i. Amp
    ii. Speakers
    iii. Wireless Microphone (Handheld and Headmount)
    iv. Podium Microphone
9. Crestron Controller
10. Crestron Touch Panel on Podium
11. Wireless Presenter Controls
12. Audio Input
13. Laptop Connection
14.
15. Phone

**Computer Classroom**

A. Capabilities
1. Smart Classroom
2. Voice Reinforcement
3. Student Tracking

B. Equipment
1. LCD Projector
2. Projector Screen
3. Document Camera
4. DVD
5. Sound System
    i. Amp
    ii. Speakers
    iii. Wireless Microphone (Handheld and Headmount)
    iv. Podium Microphone
6. Crestron Controller
7. Crestron Button Panel on Podium
8. Wireless Presenter Controls
9. Audio Input
10. Laptop Connection
11. Computer for SARS w/ Card Swipe Keyboard (Owner Furnished)
12. Phone

**Lecture Hall**

A. Capabilities
1. Smart Classroom
2. Voice Reinforcement

B. Equipment
1. LCD Projector
2. Projector Screen
3. Document Camera
4. DVD
5. Sound System
    i. Amp
    ii. Speakers
    iii. Wireless Microphone (Handheld and Headmount)
    iv. Podium Microphone
6. Crestron Controller
7. Crestron Button Panel on Podium
8. Wireless Presenter Controls
9. Audio Input
10. Laptop Connection
11. Phone

**Gyms**

A. Capabilities
1. Portable Control Systems on Floor with Multiple points of interface
2. Music Input

3. Sound
4. Conduits for future Video Cameras and connections

B. Equipment
1. Sound System
    i. Amp
    ii. Speakers
    iii. Wireless Microphones (Handheld and Headmount)
2. Portable Control system
    i. Scoreboard
    ii. Sound
3. Wireless Music Controls
4. Multi Point Audio Input

**Group Exercise**

A. Capabilities
1. Broadcast Music
2. Review Films from DVD/Internet
3. Voice Reinforcement
4. Student Tracking

B. Equipment
1. Flat Panel
2. Control Panel
3. Sound System
    i. Amp
    ii. Speakers
    iii. Wireless Microphone (Handheld and Headmount)
4. Crestron Controller
5. Crestron Button Panel on Wall
6. Wireless Presenter Controls
7. Audio Input
8. DVD
9. Laptop Connection
10. Computer for SARS w/ Card Swipe Keyboard (Owner Furnished)
11. Phone

**Offices (including equipment room offices)**

A. Capabilities
1. Computer Connection
2. Phone Connection

B. Equipment
1. Computer (Owner Furnished)
2. Phone (Owner Furnished)

**Field Office**

A. Capabilities
    1. Computer Connection
    2. Phone Connection

B. Equipment
    1. Computer (Owner Furnished)
    2. Phone (Owner Furnished)

**Pressbox Gym**

A. Capabilities
    1. Sound System control
    2. PA System
    3. Internet

B. Equipment
    1. Sound System
    2. Microphones
        i. Wireless
        ii. Wired

**Pressbox Field**

A. Capabilities
    1. Sound System control
    2. PA System
    3. Internet

B. Equipment
    1. Sound System
    2. Microphones
        i. Wireless
        ii. Wired

**Conference Room**

A. Capabilities
    1. Video Presentation
    2. Conference Calling
    3.

B. Equipment
    1. Flat Panel
    2. Crestron Controller
    3. Button Panel on Wall
    4. Connection in table
        i. Internet
        ii. Laptop
        iii. DVD

    5. Conference Phone on Table