



## **ADDENDUM NO. 4**

### **CITY OF STOCKBRIDGE COMMUNITY ARTS CENTER ITB #2013-012**

Original Bid Date: December 27, 2013

**REVISED BID DATE: DECEMBER 30, 2013**

**Addendum Date: December 26, 2013**

#### **Bid Date Revised:**

Item No. 1: The bid date for this project is revised from December 27, 2013 @ 10:00 AM to **December 30, 2013 @ 10:00 AM.**

#### **Response to Questions:**

Item No. 2: Attached to this addendum is a response to all written questions submitted within the timeframe listed in the Contract Documents.

#### **Additional Narrative Information:**

Item No. 3: Attached to this addendum is additional Electrical and Mechanical narrative to be utilized in the development of the project bids.

#### **Clarification of Existing Components:**

Item No. 4: All existing theatre equipment and staging located within the existing build are to be professionally disassembled and stored onsite in areas designated by the Owner.

#### **Temporary Utilites:**

Item No. 5: The Owner will provide temporary water and power as it relates to this project.

#### **Building Permits:**

Item No. 6: The Contractor will be responsible for obtaining all required permits as it relates to this project.

**End of Addendum No. 4**

1. Note #9 is in direct conflict with special inspections requirements – conflicts w/ 1400-1.7 please clarify – Special Inspections cannot be engaged by contractor. The need for special inspections is to be identified by the GC, and coordinated between the General Contractor (GC), Construction Manager-At Risk (CM-AR) and City.
2. Pg. A001 Rated Partitions and Ceil. Area – However only info provided is note ref. exist firewall. Are fire rated walls at other locations required? A101 says ALL walls are type “XA” except as noted otherwise. Other than the rooms designated as storage, there are no new fire rated partitions. The ceilings to these rooms are to receive 2 layers of 5/8” gypsum wall board as well in lieu of running fire partitions to structure. These storage areas will to be sprinkered.
3. A101 – Provide Access underneath Dock for Storage? Fire Sprinkler? See answer for Q2 above.
4. A101 – Lockable Shelves? Yes, per Theatre consultant.
5. A101 – Serving Window W/ Security roll down door? Alpine “COUNTER SHUTTER” rolling counter door, stainless steel finish, lockable, or equivalent.
6. A302 – Building Signage to be weather proofed? Yes. These letters are new, building signage exterior lettering to be weather resistant anodized aluminum (brushed finish), 1’-6” tall (field verify), Bookman Old Style font.
7. A302 – DET. 2 – Separate pricing for bulletproof? Yes  
Anodized Alum counter – wouldn’t SS work? Yes  
Wood siding shown @ 1/A302 - what is that? Wood-trimmed box-out, simple column-type look.
8. Storage under seating – f/r walls and fire sprinkler? Yes. Absolutely. The Risers will be so tall, that it will serve as an electrics (lighting) storage space which will need electrical power, to be lit, and likely fire proofed.
9. What is Elev. Floor Systems? Certain parts of the facility need to be at the same height as the stage itself to allow for easy rolling of sets
10. Handrails @ Auditorium Seating Steps? Yes, they should be removable
11. Article 11.01 of Instructions to Bidders states that ALL substituted products are to be approved 10 days before the bid date. However, there are numerous divisions of the specs where no products at all are enumerated. Without a specific product described, this part of the requirement would seem to be unenforceable – Please provide specific products for each division if a specific product is required. Otherwise we will provide products that generally meet the apparent intent of the CD’s. Please confirm this is acceptable.

This is a design/build project, so meeting the intent of the CDs is acceptable. There will be coordination between the GC, CM-AR and the City.

12. Notice to proceed and instructions to bidder conflict relative to duration of project. Please confirm which is correct.

This is a design/build project, so this is to be coordinated between the CM-AR and the City.

13. Who Furnishes & Installs seating? If by contractor, please provide spec. Theatre consultant has already purchased seating.

The contractor just needs to install them to code.

14. Who provides engineering costs for skydeck supported from existing structure? Who pays for testing of connections? It has to be owner since this is classified as a special inspection.

Third-party engineering would need to be handled separately, and coordinated between the GC, CM-AR and the City.

15. Who provides engineering cost for structural modifications to the existing building? - seat riser, stage, shop, floor system? Who pays for testing? Box office will require footings and special inspections. Contractor cannot engage special inspections agent.

Third-party engineering would need to be handled separately, and coordinated between the GC, CM-AR and the City.

16. Sup. Cond. SC-6.17-F - Is this stating that after a third submittal of the same item, if the item is not approved, subsequent submittals will require contractor to pay arch. for time to review? Conflicts with 1330-1.18-E Please clarify

This is not part of the current scope of the design team and will need to be authorized, coordinated and defined by the City and the CM-AR.

17. 1330-1.16-A Photos – What/Who is acceptable?

To be coordinated and defined by the City and the CM-AR.

18. Electrical Utility Cost? Water Utility Cost?

To be coordinated and defined by the City and the CM-AR.

19. 1500-1.6-A States Contractor not to use existing facilities for field office. Are we to include a job office trailer on site? If so, any limitations for locations? Utilities?

To be coordinated and defined by the City and the CM-AR.

20. Are there limitations to time of day that work can take place?

The Theatre consultant and their operations staff will be producing during construction phase.

The space would need to be safe. No construction during performances.

Confirm and coordinate with CM-AR and the City.

21. 1700-1.2 Seems to ask for final property survey. Is this required?

Disregard request for final property survey.

22. 16000 – 3.4-I References F/A for new adjacent building to tie back to corresponding system in main classroom – please clarify.

Disregard specification for new adjacent building and main classroom.

23. 16000-3.4-S References Intrusion alarm. Should an intrusion alarm system be included? If so, provide spec.

Disregard specification for intrusion alarm.

24. 16000-3.05-K References science tables. Please provide location of science tables.

Disregard specification for science tables.

25. Mech. & Elec. Specs both make reference to kitchen requirements and equipment connections. A "Kitchen" does not appear on the drawings. Please clarify the meaning of these references & what equipment is in need of connections.

Tenant to provide equipment, since equipment is residential-level and not require commercial-grade connections or requirements.

We'll need suitable electrical with both 220 & 120 outlets & a hood for the oven, as indicated on the attached sketch.

26. 16000-3.13-B Provides a list of equipment to be connected. This list seems to be for another project. Please provide a corrected list of equipment requiring electrical connections. Particularly, the concession room is likely to have plumbing and electrical connections that we have no info on.

See Mechanical and Electrical Narratives, included in this document at the bottom. Concession room to be coordinated between GC, CM-AR and Theatre consultant, but provide allowance for the current pricing round.

27. Who provides wheelchair lift & lift @ load dock? If contractor to provide lift at loading dock, what weight should it be rated for?

GC to provide lifts, max. capacity of loading dock to be 1/2-ton.

28. 16000-2.08 states that we are to refer to drawings for lighting fixture schedule and lamps. Since there aren't any "E" drawings, we do not have a light fixture schedule. Please provide a light fixture schedule w/ quantities of each type.

This is to be developed under the design-build scope between GC, CM-AR and City.

29. 16750 – Makes reference to a cable tray for cable mgt. however, the drawings do not indicate a location for the com cables to originate from. Please provide a location of a com closet or IDF room.

Cable trays need to run from booth locations to the various parts of the stage, dimmer packs, amp racks, cabinets, led sub dimmers and the like.

See also Electrical Narrative, included in this document at the bottom.

30. What level of "Bullet Resistance" are the "Box Office" ticket windows to be priced for alternate?

For base bid, Outdoor lite is monolithic glass and indoor lite is glass-clad polycarbonate with spall-resistant film on inside face, Forced-Entry Resistance: Class II per ASTM F 1233. For alternate, substitute ½" thick tempered glazing in lieu of security glazing.

31. Stair finishes are not addressed in the finish notes on A-102. Will this be bare concrete or will it require vinyl treads and risers?

It will vary by location. Outside stairs to be concrete with striping. Internally, some will be metal, some wood, and some concrete varied by location.

32. Lobby #2 is to have ceiling removed. No other direction is provided. Does this area get a new ceiling? If so, what kind? If not, does exist HVAC stay in place? Intent is to remove ceiling, paint existing ceiling and equipment and leave exposed. GC to provide pricing for this as a separate line item in the event that the ceiling in Lobby #2 is retained.

33. Concession # 32 shows an interior and exterior counter. What material is to be used for these?

Stainless steel at both.

34. Concession # 32 Security roll down door – Please provide a spec. or narrative. Alpine “COUNTER SHUTTER” rolling counter door, stainless steel finish, lockable, or equivalent.

35. The walls at storage # 6 are not fire rated. Won't code require these to be rated? There is a wall on the lower side of the storage area that is not shown on A.101 that will likely be required to be fire rated, as well.

Other than the rooms designated as storage, there are no new fire rated partitions. The ceilings to these rooms are to receive 2 layers of 5/8” gypsum wall board as well in lieu of running fire partitions to structure. These storage areas will to be sprinkered.

36. Door hardware is not mentioned anywhere in the CD's. Should there be an allowance set for door hardware? Will most doors require sound seals and auto door bottoms?

For pricing, provide an allowance for door hardware. For the hinges, closure and locking hardware, this will need to be coordinated with the City; for any specialty sound-sensitive or sound-critical hardware, this item will have to be coordinated between GC, CM-AR, and Theatre consultant.

37. A-602 Door Schedule Door Type D-2A is rated in column under door tag, however, rating column says it is non-rated, then location column says existing fire rated wall. Please clarify requirement for fire rating of this door type.

See attached sketch for updated door schedule.

38. Per detail of wall type XA on A601 and note on A101, ALL new walls are type XA unless noted otherwise. I could not find any notes relative to all types other than referenced above. Please confirm.

Design team was directed by Owner's representative to 'design in the field' and match existing conditions, unless specifically called out on the drawings. This is the reason the wall type legend is rather generic and limited.

39. The restroom #28 & #35 indicates the removal of the urinal and replacement with a wall mounted water closet and the addition of another toilet partition and extension of the adjacent wall, cutting and patching of existing ceramic tile walls. This is a very costly minor modification. Do we really want to include this modification?

Please provide line item pricing for the two options.

40. Black box 23 indicates a stage. Please confirm a permanent stage is required. If so, what is the desired height? Are any steps required? Are any steps required? If so, are they recessed or outboard? What type of handrail required?

The ENTIRE room to receive a “Foam Based Sprung Floor System,” which must be sprung to dance standards with easily removable luan. It must bear the weight of risers or additional staging, chairs, dimmer packs, booth, and sound operation on top of it and it must be possible to bring the floor up to re-spring it.

Theatre consultant will be providing the stage for the Black Box theatre. No steps are required, therefore no handrails either.

41. Restroom fixture schedule – Fixture # 15 states there are to be 10 each of these. I only see 2 locations. On the drawing for this tag #. We will include 2 each unless directed otherwise.

See attached sketch for new fixture schedule.

42. On A.102 there are new walls, that according to the wall legend are existing. Please clarify.

See attached sketch for updated wall type schedule for new wall versus existing.

43. Door schedule makes reference to numerous frames being made of aluminum. However, I believe this is incorrect. I believe that these frames should be hollow metal. In the case of the pocket doors, the frames should be wood. Please confirm.

Correct, hollow metal frames where aluminum is called out. Wood frames at pocket doors.

44. There is what appears to be a new door from shop # 11 to auditorium #5 that does not have a door type tag. Please provide info for door, frame rating.

See attached sketch for updated door schedule.

45. A.302 Elevation 1 has a note “Building signage – exterior lettering to be water proofed.” This note would lead you to believe the building signage the note points to is existing. Especially, when there is no info about these particular letters and right above there is another elevation with the detailed info for “Box Office.” The letters referenced in 1/A.302 Do Not Exist. Will these be furnished and installed by the owner?

These letters are new (contractor furnished and installed), building signage exterior lettering to be weather resistant anodized aluminum (brushed finish), 1’-6” tall (field verify), Bookman Old Style font.

46. At the location referenced above on the building signage, I noticed that the plywood is delaminating due to water damage. This will need to be fixed prior to the letters being installed. Please advise if you want us to include this cost to repair the water damaged plywood, paint and repair the gutter where the water came from.

Provide as a separate line item, because this may well need to be handled by the City separately.

47. At Det. 2/A.302 there is a note for “Marquee lighting” at ceiling. This detail shows 4 fixtures outside of the box office in the existing ceiling. However, on page A.100 the isometric views indicate the entire existing porch ceiling area is to be densely populated

with the "Marquee Light" fixture. Please advise if the isometric views on A.100 are what is actually required.

Please provide pricing as an Additive Alternate. This is on the "wishlist" of the Theatre consultant, but another non-invasive solution may need to occur.

48. A.101 General Note # 5 states that wall assemblies separating Mechanical and Electrical spaces shall be 1-HR construction to structure above (U.L. Assemblies) U.N.O. Since the only Mechanical rooms on the plans are existing, we can only assume this note is referencing the existing walls. We cannot confirm the validity of the components of these existing walls without testing. The amount of time available for this testing until bid time is not adequate for a detailed test/report. To keep all on "level playing field" and not have the owner pay for something not required, I would suggest a stated allowance of say \$1,000.00 for remediation of these two room's walls to meet current fire rated requirements. Please advise.

An allowance of \$1000.00 for remediation of these room's walls to meet current fire rating requirements is acceptable.

49. A.102 Det. 2 is the plan view of the VIP Balcony w/ section 4/A.501 indicated. At 4/A.501 there is a vertical line extending up to bottom of roof from top of a low wall. Does this vertical line indicate glass or is the line just the corner of the sound booth beyond?

This is the "Sound Booth" beyond.

50. A.301 Room # 22 A "TV" mount is indicated. Are we to include a TV mount? If so, What size TV to be able to size mount?

36" for backstage, plan for a 50" TV in green room.

51. Spec section 16400 calls for the system voltage to be 277/480 volt system to be fed from a utility pad mount transformer. The current distribution equipment is a 1200A 120/208V system fed from a pole mounted transformer. Please confirm the existing distribution equipment is to be scrapped and a new 480Volt system is required being fed from a utility pad mount transformer.

See electrical narrative provided at the bottom of this document for direction. Provide allowance if in conflict, and coordinate with CM-AR and Theatre consultant.

52. Voice evacuation will be required since this is an assembly type building. Please advise if you do not want this type of fire alarm system.

Voice evac system will need to be priced; to be confirmed by fire marshal.

1. Do we need to provide an AIA qualification or will one be issued?

To be coordinated and defined by the City and the CM-AR.

2. Are subcontractor Affidavits required for subs on the List of Proposed Subs?

To be coordinated and defined by the City and the CM-AR.

Submitted by Headley Construction Corporation

1. The ITB notes this project to be a Design Build project. It seems that the intent is for the mechanical and electrical systems are the actual design build part, and the architectural and structural is to be provided by Innovo. However, the architectural and structural design is not yet complete; therefore, we can not determine exact costs. Is the Design-Builder required to complete for all architectural, structural design as well as provide the mechanical and electrical design?

The drawings are supplied in order to provide the vision of the Theatre consultant and the intent of the project scope. There will be coordination required, as the project progresses, between the CM-AR and the GC to fill in the gaps.

2. What is the anticipated cost of this project? How is it funded?

The design team has not been authorized to-date to release the anticipated cost (budget) assumed by the City. The design team is not privy to knowledge on how the project is funded.

3. Spec Section 011000 states that the owner will install the sprinkler system; however "General Notes" on architectural drawings imply that the contractor is to provide the sprinkler system. Who is to provide the sprinkler system? Is a sprinkler system required? If so, we need a reflective ceiling plan to coordinate locations of sprinkler heads, lights and duct supplies/returns. Is an appropriate water source available for a sprinkler system? Where is this water source? Has a flow test been performed?

It is assumed that the City will be responsible for a sprinkler system.

4. Will the GC be required to pay for a Building Permit Fees or will the owner waive this fee? Has the Building Inspector reviewed these plans?

It is assumed that the Owner will waive the building permit fees. The drawings have been submitted with the intention of building plan review, though it is not known at this time whether such review has been conducted.

5. Existing structure is a pre-engineered metal building with minimum insulation in roof. Ridge is vented. Does this building, after renovation, have to conform to the current energy codes? Current insulation does not comply.

It is understood, but not known at this time, that the current installation does not comply, nor whether the City will need to conform to current energy codes.

6. The existing HVAC equipment has some age and has a SEER rating of 10; it does not comply with current energy code requirements. Will Building Official allow this existing equipment to be used, a change in use of the building? Do you have an inventory of this existing equipment?

Please refer to the Mechanical Narrative provided at the bottom of this document.

7. Restrooms [15] & [21] will require sanitary sewer. Please provide location of where we are to tie in sewer.

To be provided by the City and/or CM-AR based on information by the City.

8. Sheet A101 list both demo and proposed work on the same page. Can separate sheets be provided for both demo and proposed to limit confusion?

With a limited demolition scope, a separate demolition plan was not deemed necessary.

9. Can a reflective ceiling plan be issue to accurately show what ceilings are to go in each room?

A plan accurately showing lighting is to be part of the design/build scope and, unfortunately, not part of the drawings.

10. The building has an existing concrete mezzanine. Apparently, the structure that holds this mezzanine up is located within a wall shown to be demolished. We suggest locating much of the HVAC equipment on this mezzanine, and keeping the structure intact. Is this acceptable?

It is the intention to keep the mezzanine. The access stair from the Green Room to the Stage will likely have to be modified slightly to accommodate a new steel beam and end columns to carry the mezzanine, and the new HVAC equipment. Please include line item pricing for this.

11. Is there a structural drawing/information for the sky deck system? Has the existing steel structure been evaluated to see if it is adequate to support the loads of this sky deck system? Provide loading information of the sky deck system, as well as details of how it will be attached.

The SkyDeck vendor has information on the layout of the system, but structural was assumed. A structural assumption was made based on a similar project at another location. Please contact:

Jeff Craycraft,

Sales Associate

InterAmerica Stage, Inc.

Ph: 407.302.0881 Fax: 407.302.0882

[jcraycraft@iastage.com](mailto:jcraycraft@iastage.com)

12. Is stair [303] to be provided by Sky Deck System? Is Design-Builder responsible for installing Sky Deck system, or is Owner contracting for material AND installation.

Design/Builder to provide pricing to furnish and install SkyDeck system (stair is not part of the SkyDeck system). Provide pricing as a line item that can be discussed as an alternate.

13. What products are we to use for the finishes, ie. Flooring, paint, etc? Please provide a finish schedule.

Finishes are to be economical and coordinated as part of the design/build.

14. The drawings call out for a wheelchair lift, who is the manufacturer? Will a specification be issued for this product?  
Provide three options for selection.
15. Who is to provide the 72"x48" portable lift under the loading area?  
GC to provide pricing for furnishing and installing the lift. Provide as a line item as an alternate.
16. How is the "raised floor system" in the shop and loading area to be constructed? What building materials? Provide details, or is this design-build as well? Provide loading requirements.  
These are part of the design/build – provide allowance for pricing. Finished product to be coordinated between CM-AR and Theatre consultant.
17. Please provide a structural drawing for stage construction? What building materials? Is this design-build? Provide loading requirements.  
These are part of the design/build, envisioned as wood framing – provide allowance for pricing. Finished product to be coordinated between CM-AR and Theatre consultant.
18. A new door is shown between the Shop and the Auditorium at a 4'0" elevation, what is this number for this door to reference the door schedule?  
See attached sketch for updated door schedule.
19. Doors D1, D2, D3, D4, D5, D28, D1B, and D1C are noted as having aluminum frames and wood doors, which is not customary. Is this correct?  
Hollow metal frames where aluminum is called out. See attached sketch for updated door schedule.
20. Is the owner going to provide the refrigerators in Star Room [16] and Star/Chorus [20]?  
Not part of the GC scope.
21. Green Room [22], note states "TV Mount." Is this mount to be provided and installed by the owner? If not, please provide specification.  
36" for backstage, plan for a 50" TV in green room.
22. Can a detail of the countertop be provided to show the countertop construction and the support bracket?  
To be coordinated and determined in design/build phase.

23. In Chorus Room 14 a note states "Demo existing GWB to expose column". How are we to finish the cabinet end once the wall is removed?  
To be coordinated and determined in design/build phase.
24. Can we get clarification on what items the Owner is providing?  
Items provided by others listed in the list of previous questions.
25. Are all of the Owner Provided items installed by the Owner/Owners Vendor? (If not, please provide who is responsible for what)  
All of the items listed as owner-provided, other than the stage in the Black Box are to be installed by the GC – coordinate with the CM-AR.
26. Where will the Telephone Service need to be relocated to?  
To be coordinated as part of the design/build; coordinate with CM-AR and refer also to Electrical Narrative at the bottom of this document.
27. If we are to reuse existing HVAC equipment does it meet the current electrical codes for energy consumption?  
To be coordinated and determined in design/build phase.

Drawing A501 details #1, #5 and #6 show what is called "kiddy or bull rails." Typically a performing arts center, auditorium or stage that utilizes a tension wire grid has a two railing safety hand rail (at 21" and 42"), which also can be used for lighting positions. Authorized personnel (maintenance, lighting, etc.) only have access to grid. Please clarify which type of perimeter hand rail is required for this project.  
To be coordinated with SkyDeck's standards. Approved equivalent is acceptable.

The **SkyDeck**™ layout shown on the drawings show the back of house portion going pass the last existing beam (will require more additional support steel than originally), and the over stage not going to the proscenium wall (will require more hand and kick rail than originally). Please confirm this layout.

Final layout will be part of the design/build phase – layout shown now is to direct the intent of the Theatre consultant.

1. Marquee lights are shown around the porch next to the ticket booth. The existing ceiling at the porch is stucco which is in good condition. To be able to install the marquee light fixtures we will have to demolish the porch ceiling. Is this necessary given that the stucco ceiling is in good shape? If we are to demo to stucco ceiling what finish are we to install back?  
Please provide pricing as an Additive Alternate. This is on the "wishlist" of the Theatre consultant, but another non-invasive solution may need to occur
2. Specification Section 011000 List "Work by Owner" to test mechanical, electrical, and plumbing systems for working condition. However, the MEP Narratives provided list that it is the contractor's responsibility to check these systems. Who is responsible for checking these systems?  
MEP Narratives take precedence – GC to check systems and report to CM-AR and Owner.

3. Specification Section 011000“Owner furnished Products” list owner as providing Low voltage and CCTV . The electrical narrative defines part of the electrical scope as having the installation of low voltage, ie. Sound Equipment, Fixed Camera’s, Telephone, Fire Alarm, and Data. Is the electrical contractor to provide the low voltage and CCTV or is this by the owner?

Electrical Narrative takes precedence.

4. Please clarify door hardware. Is the owner providing the hardware or is the GC? If GC is to provide is there a cost per set that needs to be used?

For pricing, provide an allowance for door hardware. For the hinges, closure and locking hardware, this will need to be coordinated with the City; for any specialty sound-sensitive or sound-critical hardware, this item will have to be coordinated between GC, CM-AR, and Theatre consultant

## **STOCKBRIDGE THEATRE MECHANICAL NARRATIVE**

The mechanical contractor is to raise all indoor HVAC equipment, ductwork, and piping located above the existing ceiling to a level above the new ceiling elevation (to be determined by the architect). We anticipate this work would, at a minimum, include the following (however, the mechanical contractor is to visit the site prior to submitting a bid and is responsible for providing permits and a complete operational system in conformance with all applicable codes and standards):

### **GENERAL AREAS:**

1. Confirm operation of all existing equipment prior to any relocations and notify owner of any Discrepancies
2. Removal of refrigerant and disconnection of refrigerant piping
3. Disconnection of condensate piping, gas piping, flue vents, electrical power, and control wiring
4. Rehanging and/or relocating the existing air handling equipment
5. Relocate air distribution/ thermostats as required to provide independent zones for the stage area, black box, and dimmer switch location.
6. Extension and/or relocating the condensate piping, gas piping, flue vents, electrical power, and control wiring (note all piping, wiring, and vents will be relocated above the new ceiling level).
7. Relocating or replacing existing ductwork at the new ceiling elevation (including additional transitions as needed to clear any obstructions or connecting to existing equipment)

8. Reconnection and extension (if required) of refrigerant piping
9. Pressure test natural gas and refrigeration
10. Recharge refrigeration systems per manufacturer's recommendations
11. Provide new programmable thermostats at locations to be determined by the architect.
12. Provide new filters, clean condenser and evaporator coils, and condensate drains
13. Provide any repair or replacement of piping or duct insulation as required.
14. Rehang air distribution either in the new ceiling grid or independently from structure above as required
15. Confirm proper operation of all HVAC equipment after relocations are complete
16. Provide independent test and balance by a N.E.E.B or A.A.B.C certified contractor
17. Provide as-built drawings including equipment model and serial numbers to the owner

### **ADDITIONAL WORK FOR SPECIFIC AREAS**

#### **Sound Room:**

1. Provide 1- 2-ton ductless split system with all associated refrigerant piping, condensate piping, insulation, air distribution, and controls for the sound room-coordinate voltage and electrical requirements with electrical contractor. Provide 300 cfm exhaust fan vented to outside with all required ductwork, line voltage thermostat, and roofing/louvers as required.

#### **Dimmer Switch Panel**

1. Provide 300 cfm exhaust fan vented to outside with all required ductwork, line voltage thermostat, and roofing/louvers as required.

#### **Shop Area**

1. Provide 1000 cfm exhaust fan vented to outside with all required ductwork, wall mounted speed control, and roofing/louvers as required.

### **STOCKBRIDGE THEATRE ELECTRICAL NARRATIVE**

The Electrical contractor is to relocate all indoor HVAC equipment disconnects to a level above the new ceiling elevation (to be determined by the architect), provide power for new theatre equipment, provide and install new lights and perform required modifications to existing electrical and communication systems (outlets, phone and data j-boxes etc.). We anticipate this work would, at a minimum, include the following

(however, the electrical contractor is to visit the site prior to submitting a bid and is responsible for providing permits and a complete operational system in conformance with all applicable codes and standards):

**GENERAL AREAS:**

1. Relocation of HVAC disconnects for relocated AHU's
2. Circuit Breakers, conduit, conductors and disconnects for additional HVAC
3. New luminaires and associated wiring devices, conduit and conductors.
4. New outlets in renovated areas. Quantity to be determined.
5. Circuit breakers, conduit, conductors, disconnects etc. for owner provided theatre equipment:
  - a. Stage lights
  - b. Lifts
  - c. Theatrical gel lights
  - d. House lights
6. 200 amp feeder to new sound room (sound equipment by others).
7. Empty conduit and pull boxes for sound system (sound equipment by others).
8. Verify existing Electrical system
9. Megger test new circuits 50 amps or greater
10. Update panel schedules
11. Pull boxes for new thermostats
12. Pull boxes for phone and data jacks
13. Modifications to fire alarm system
14. Verification of fire alarm system functionality
15. Load calculations to ensure existing service is suitable for new occupancy.
16. Provide as-built drawings to the owner

**THE FOLLOWING ARE SPECIFIC REQUIREMENTS OF THE PROJECT:**

1. Marquee lights at ceiling of covered

2. House lights for Black Box and Main Theatre include 2 channels overhead (HOUSE) (warm lighting (incandescent or LED)) and (WORKS) (task lighting (florescent or LED)). Also wall sconces are needed.
3. Incandescent lights in Restrooms, Star Rm, and Chorus Rm
4. Dimmer packs need to be in a vented climate controlled rm. How much square footage shall be allocated for this? [20sf ] 5ft deep 4 feet wide. In proximity to stage, where is the recommended location for dimmers. Is it more recommended to locate them at landing above stage Or create an additional room between the stage and the lobby area.
5. Soundboard to patching to snake 36 mic inputs to stage [12 StageLeft, 12 @ Pit, 12, StageRight, 4 returns each]
6. Amplifier racks (30" x 30" racks x 7') closer to stage [4 Amps 225 W @ 8 ohms, 1800 watts]
7. 3inch conduit for dimmers (each conduit will hold 36 dimmer)
8. 8 OHMS of impedance for each main front of house speaker, 2000watts Spec Mackie Speakers : <http://www.sweetwater.com/store/detail/HD1531/>
9. Stage Pin Connectors- One power source to each channel (each has dimmer and switch. Will need 128 1kw stage connector. Bipolar Neutrecht Ni-4connectors.
10. Provide power to Sound Booth HVAC/fan.
11. Provide power to Stage area HVAC/fan
12. Provide power to Dimmer area HVAC/fan
13. Provide power to Black Box area HVAC/fan
14. Provide power to Shop exhaust fan
15. Locate quads on every wall outlets every four feet in green rm, star rm, chorus rm
16. Locate minimum of 1 Ethernet, 1 Clearcom, and 1 Telephone line in green rm, star rm, chorus rm, shop, and hallways
17. Locate quad outlets in hallways and shop every 6 ft.
18. Locate quad outlets at countertop ht along vanity counters in star rm, restrooms, chorus rm (20 amps per circuit)
19. Locate outlets at Refrigerator locations

20. Locate cable and outlets at ht of TV location in Green Rm. TV to be mounted on wall. TV for viewing performance on stage. Connection needed for video camera onstage.
21. Two adjustable cameras mounted, one of which is located for conductor to be seen at pit, the second to cover stage
22. Lighting/Elec Grid to be 4 x 8. Lighting grid is every 8 ft, and runs parallel to the stage. Elec grid every 4 ft and runs perpendicular to the stage. Place Edison outlets every 4 to 5 ft
23. 4 quads of outlets at counter ht , 2 quads of outlets below counter, 2 quads of outlets at back wall. 3 CAT5 or CAT6 ethernet connection for internet, and 2 telephone lines in sound booth rm
24. 1 TeleQue from stage to sound booth rm
25. Clear Comm system install in back stage areas for actors/actresses to hear performance on stage. This includes star rm, restrooms, chorus rm, Green rm, hallways, Pit, Backstage, Stage Left & Stage Right, and shop, loading dock.
26. ALL clear com wiring to be shielded
27. Important to have separate electrical circuits for sound and light (sound needs more isolation)
28. 20 par (56) LED Lighting Instruments, (32) par 38 LEDs, (30) Source 4 Parnells, (12) Par 56 instruments, (20) Source 4 ellipsoidals
29. 175 hanging tails needed. Wired to code.
30. 175 Dimmers & Channels
31. Two ETC ion lighting console will run 4,096 Channels located in Black Box and Main Theatre
32. Floor lighting along aisles
33. 28 Berhringer X32 full console and Two S16 digital snakes

Electrical contractor shall consult owner for locations and specifications of equipment and coordinate with other trades