

TRANSMITTAL / MEMO

Project: UO - OBF
Date: February 5, 2016
To: Melissa Clark Hacker
LEED AP BD+C 733 Southwest Oak Street
Portland OR 97205
From: Ian Hunter, CTS-D
Adam Shalleck, FAIA
Re: Performance Systems Budgets – 100% SD
Via: e-mail
Fax:
Tel: 503-227-1254
of pgs. 2
including cover:

Below are listed the budget recommendations for performance systems within the UO Oregon Bach Festival project.

Please forward this to the Cost Estimator for the project for inclusion in the total estimate. It is important to note that not all sections represent a complete and installed cost. In particular, the Cost Estimator(s) who is/are responsible for structural and electrical costs will need to include performance systems infrastructure and installation (in the case of electrical) that normally falls under Divisions 5 and 26 (16). Those major needs are described below and in our “Performance Engineering Report.”

The recommendations below are listed in 2016 dollars and do not include General Contractors mark-up and general conditions or overall contingencies.

1. Rehearsal Room

Variable Acoustic Systems– Section 11 61 34 **\$125,000**
Allowance to include motorized variable acoustic systems, as defined by the project acoustician.
Related Exclusions: Structural Support, drapery/banner pockets/enclosures, electrical connections.

Performance Lighting Control – Section 11 61 83 **\$35,000**
Budget includes (12) 20A, 2.4kw dimmers/non-dims with thru-power for incandescent and LED performance lighting, (12) 20A DMX-controlled relays for architectural lighting, network components, simple architectural controls, control and circuit wiring devices, equipment only.
Related Exclusions: Div. 26 work including power/wiring infrastructure, architectural lighting fixtures, emergency lighting/transfer, distribution and control wire, conduit, and complete installation.

Performance AV Systems – Section 27 41 16 **\$95,000**
Deduct for removal of video projection **(\$40,000)**
Simple system to include audio automixer, (2) wireless mics, simple audio recording system with hanging microphones, column loudspeaker system for voice reinforcement, stereo loudspeaker system to support video content playback, HD video projection system with motorized roll-down screen, simple control system, FM assistive listening. Wire, pull and system integration and installation.

Related Exclusions: Electrical work including all line voltage connections (complete), and providing and installing all low-voltage conduit and backboxes required by the AV system, as well as specialty electrical systems noted in the engineering report.

2. Boardroom

AV Systems – Section 27 41 16 \$10,000

AV system with laptop connections in floor pocket, simple control system, 80” flat panel video display, audio playback capability. Wire, pull and system integration and installation.

Related Exclusions: Electrical work including all line voltage connections (complete), and providing and installing all low-voltage conduit and backboxes required by the AV system.

3. FF&E

Performance Lighting Fixtures \$30,000

Allowance to include assortment of LED fixtures, connection cables, and accessories.

Riser Package \$25,000

Allowance for choir and instrument riser package, with storage carts and accessories.

Audience Seating \$45,000

Allowance 150 stacking chairs with storage carts and accessories.

Loose AV Equipment \$15,000

Allowance for loose AV equipment allowance to include mics, stands, cables, monitors and accessories.

4. Miscellaneous Aspects To Be Included In Other Sections

Architectural Lighting

The normal and performance downward performance lighting to be provided as part of the architectural lighting system. Provide 50 or more footcandles of down light in the third of the room where the performers are located. This is critical for the visual acuity of seeing sheet music and highlighting the performers.

Electrical & Mechanical Accommodations

As indicated in the engineering report

AV Low-Voltage Conduit System (by electrical):

The low-voltage portion of the AV system will comprise a significant amount of EMT conduit.

The AV system is divided into five signal groups, which EACH requires its own conduit raceway:

- A: Mic Level
- B: Line Level
- C: Video & Communications Level
- D: Loudspeaker Level
- E: Empty

As becomes clear, the amount of conduit becomes a significant cost factor, and should be accounted for accordingly. See forthcoming AV drawings.

University of Oregon – Oregon Bach Festival

Performance Systems Executive Summary

100% Schematic Design

February 5, 2016

The following narrative describes our recommended approach for the technical systems related to the performance facilities at the University of Oregon – Oregon Bach Festival. These recommendations are further based conversations with the User's committee, our interpretations made from experience on similar projects of this type, and incorporating new directions in theatre technology.

1. Rehearsal Room

Variable Acoustic System

The Recital Hall will be provided with motorized variable acoustics draperies and/or banners for the adjustment of the reverberation characteristics of the room. The locations and extent of the drapery and/or banners will be determined based on criteria established by the Acoustics Consultant.

Performance Lighting

The architectural lighting for the Recital Hall should be designed so that it can provide no less than 50 foot-candles of light for musicians at the music stands. It is critical that the lighting system is able to provide sufficient lighting so that musicians do not suffer from eye strain caused by attempting to read scores from a standing or seated position.

As part of the same architectural lighting system, the rehearsal room will be provided with a series of simple performance spotlight fixtures to better highlight portions of the room while in performance mode.

Controls will include simple programmable preset recall pushbuttons, and secondary controls integrated with the AV control system.

AV Systems

Audio System

The audio system will be designed for use without an operator, including an automixing system and touch panel preset control. The audio system will be designed for voice amplification only, and will not be capable of handling high-level audio program, such as a jazz band or other type of concert. It is anticipated that any event requiring high-level audio will use portable equipment.

Two channels of wireless microphones will be provided, and can include both handheld and lavalier-style transmitters.

Recording

A system for making simple two-track audio recordings of live presentations for archival purposes will be provided. The recording can be made to CD, flash drive, or network location.

Video System

The video projection system consists of a video projector, video switcher blu-ray player, and connection points for laptop computers. Video projection will be wall mounted with a single video projector. A motorized roll-down front projection screen will be provided. Both projector and projection screen will be integrated into the room aesthetic.

Assistive Listening System

As required by the building code and the ADA (Americans with Disabilities Act), compliant assistive listening systems will be provided for 4% of audience seating capacity. Receivers would be checked out in the lobby, and signage provided. Use of this system will require little or no input from the patron.

We anticipate the use of an FM based system, but other options are available, such as IR (infrared) or underfloor “loop” systems.

Control System

A touch screen-based control system will be implemented to allow for simple presentations to take place without an operator present. Control will be via presets, and will have options such as “Performance”, “Lecture w/ laptop” or similar as desired by the user group.

Portable Equipment

A complement of portable equipment, including cables, microphones, stands, portable loudspeakers, performance lighting fixtures, musician risers, audience seating, and other related items will be provided under the “FF&E” package.

END OF REPORT

OVERVIEW OF OUTLINE SPECIFICATION

The following outline specifications describe the basic construction systems to be used in Oregon Bach Festival Building. The document is organized in UniFormat (a uniform classification of construction systems and assemblies) with its corresponding numbering system.

PROJECT DESCRIPTION

D. SERVICES

D50 Electrical

D5010 To support AV systems in the Rehearsal Room, provide (4) dedicated 120VAC outlets. Any power conditioning and protection will occur locally, and be part of the AV scope.

E. EQUIPMENT AND FURNISHINGS

E1020 INSTITUTIONAL EQUIPMENT

Where required equipment suppliers shall provide design for anchoring of equipment to structure. This can be a deferred submittal

Rigging / Variable Acoustics

Rehearsal Room –

- Motorized variable acoustic system using drapery and/or banners
- Simple control system with preset recall

Performance Lighting

Rehearsal Room –

- Presentation and general lighting
- Simple controls

Audio/Video Equipment

Rehearsal Room –

- Column loudspeaker for voice amplification
- Wireless microphones
- Simple audio recording
- FM assistive listening
- Video Projection with laptop input
- Simple controls

Boardroom –

- Wall mounted LED Display Monitor
- Loudspeakers
- Simple control system

E20 FURNISHING

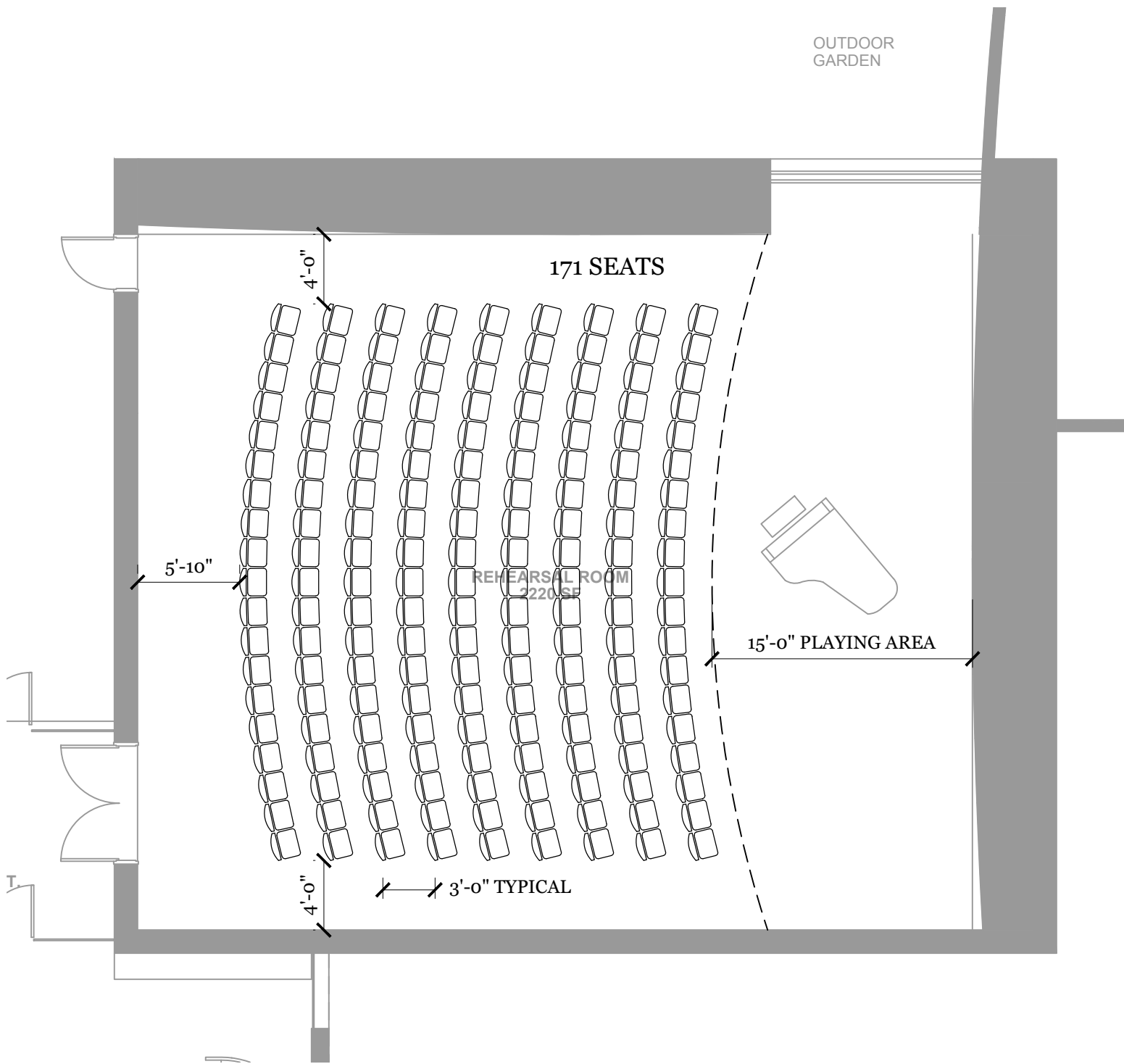
E2010 FIXED FURNISHINGS

Rehearsal Room - Projection Screen to be recessed ceiling mounted and motorized.

E2020 MOVEABLE FURNISHINGS

Rehearsal Room - Portable riser system for choir/musicians and audience seating.

OUTDOOR
GARDEN



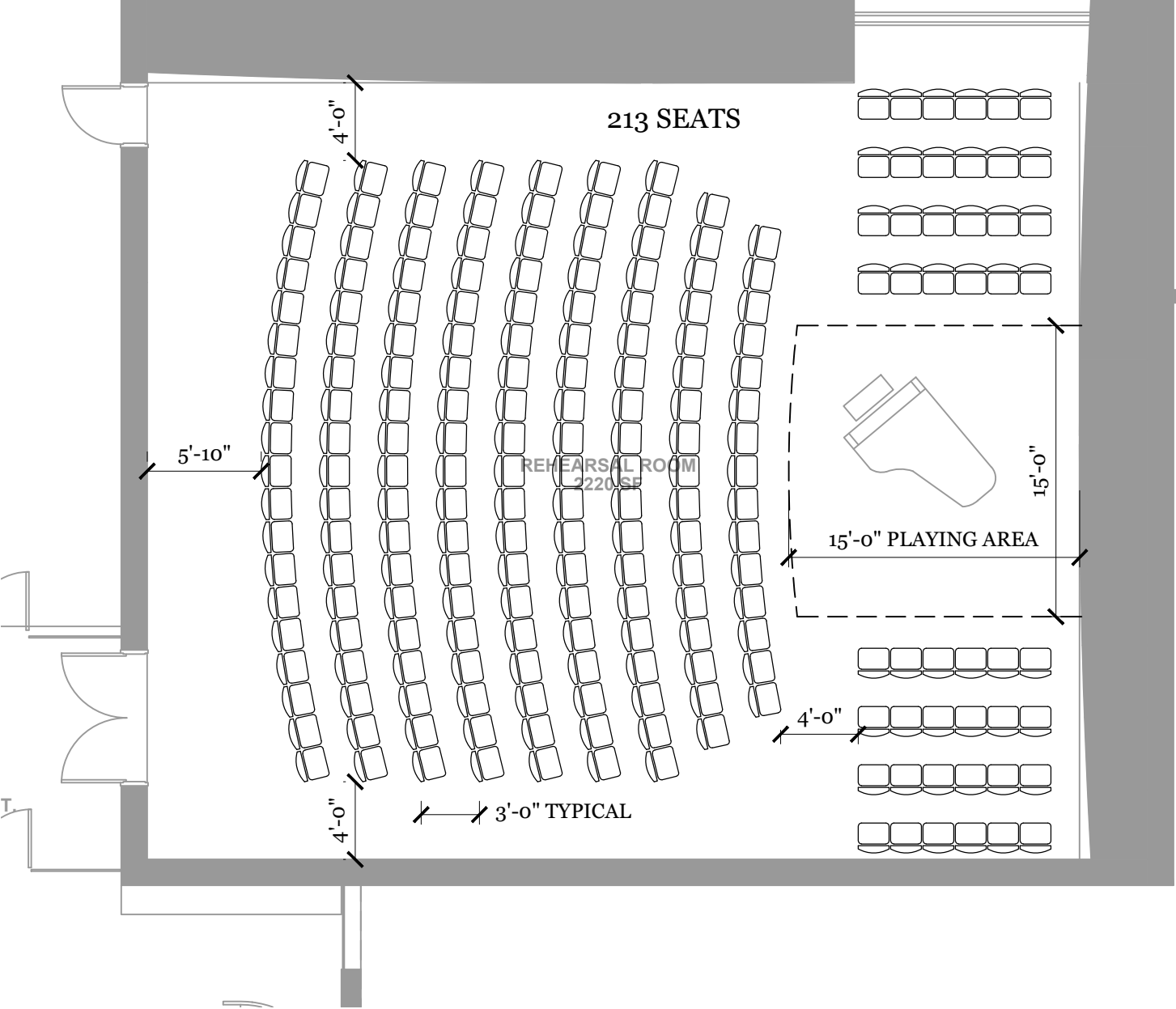
1 REHEARSAL ROOM
1/8"=1'-0"

Title: UO OBF - Example Seating for Ensemble
Date: 02/05/2016 Drawing Number:
Scale: 1/8"=1'-0" **SK-1**
Drawn By: JC

The **Shalleck Collaborative** Inc.
Planning and Design of Theatres and Production Systems

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OUTDOOR
GARDEN



1 REHEARSAL ROOM
1/8"=1'-0"

Title: UO OBF - Example Seating for Soloist
Date: 02/05/2016 Drawing Number:
Scale: 1/8"=1'-0" **SK-2**
Drawn By: JC

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