



134 3rd Ave E
Twin Falls, ID 83301
208.736.8050

Addendum No. 3

PROJECT: Filer Auditorium
Date: September 27, 2024

To the General Contractor, Subcontractors and Suppliers:

The following items contain additions, deletions, or modifications to the Plans and Specifications. This Addendum forms a part of the Contract Documents and shall be bound inside the cover of the Project Manual.

General Contractor shall be responsible for contacting their sub-contractors as this addendum may affect them.

Bidders shall acknowledge receipt of this Addendum on the Contractor Bid Proposal.

SPECIFICATIONS MANUAL:

REPLACE ENTIRE SECTION:

126100 FIXED AUDIENCE SEATING

Summary of Attachments to Addendum No. 3

126100 FIXED AUDIENCE SEATING

END OF ADDENDUM No. 3

SECTION 12610 - FIXED AUDIENCE SEATING

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Fixed upholstered chairs with self-rising seat mechanisms, aisle and intermediate standards.
 - 1. Typical applications include the following
 - a. Floor mounted chairs.
 - 2. Special applications include the following
 - a. None
- B. Related Sections:
 - 1. Division 16 Electrical sections for electrical wiring and connections for aisle lights.

1.02 REFERENCES

- A. American Welding society (AWS):
 - 1. AWS D1.1 Structural Welding Code - Steel.
 - 2. AWS D1.3 Structural Welding Code - Sheet Steel.
- B. American Institute of Steel Construction (AISC):
 - 1. AISC - Design of Hot Rolled Steel Structural Members.
- C. American National Standards Institute (ANSI).
- D. American Iron & Steel Institute (AISI):
 - 1. AISI - Design Cold Formed Steel Structural Members.
- E. Aluminum Association (AA):
 - 1. AA - Aluminum Structures, Construction Manual Series.
- F. American Society for Testing Materials (ASTM)
 - 1. ASTM - Standard Specification for Properties of Materials.
- G. National Forest Products Association (NFPA):
 - 1. NFPA - National Design Specification for Wood Construction.
- H. National Bureau of Standards/Products Standard (NBS/PS):
 - 1. PS1 - Construction and Industrial Plywood.
- I. Americans with Disability Act (ADA)
 - 1. ADA - Standards for Accessible Design.

1.03 MANUFACTURER'S SYSTEM ENGINEERING DESCRIPTION

- A. Structural Performance: Engineer, fabricate and install fixed audience seating to the following structural loads without exceeding allowable design working stresses of materials involved, including anchors and connection. Apply each load to produce maximum stress in each respective component of each audience seat unit.

B. Manufacturer's System Design Criteria:

1. Seats and Backs:

- a. Shall embody a timeless sculptured appearance to harmonize with any architectural form or room decor.
- b. Shall exhibit moderate compound contours for supportive comfort avoiding excess anatomical pressures.
- c. Seat shall be semi-cantilevered, self-centering, automatic three-quarter (3/4) lift with over center retract feature, for ease of passage and janitorial access.
- d. Seat shall be tested and professionally certified through an independent testing laboratory to support and withstand an evenly distributed 600 lb.[272 Kg] static load without failure or irregularities that would impair usefulness.
- e. Self-lifting seat shall be tested and professionally certified through an independent testing laboratory to withstand 350,000 operating cycles without failure of seat mechanism or measurable component wear.
- f. Seat shall be tested and professionally certified to withstand 10,000 impacts of a 40 lb.[18 Kg] sandbag dropped on the center of the seat from each of the following heights: 6"[152mm], 8"[203mm], 10"[254mm], and 12"[305mm]. The rate of impacts shall be approximately 18 per minute with the total quantity of impacts equaling 40,000.
- g. Back shall withstand an evenly distributed front or rear static load of 450 lbs.[205 Kg].
- h. Back shall be tested and professionally certified to withstand, without failure, 40,000 swinging impacts each to the front and rear of the back by means of two opposing 40 lb. [18 Kg] sandbags. The sandbags shall be moved horizontally and equally for 10,000 cycles each at the following distances of 6"[152mm], 8"[203mm], 10"[254mm], and 12"[305mm] at a rate of 35 cycles per minute.
- i. Back shall withstand, without failure, an evenly distributed Horizontal Traverse Static Load of 200 lbs.[90.70Kg]. The load shall be applied to the top of the back at a 45-degree angle to the row of seats.
- j. Armrests shall be tested and professionally certified to withstand, without failure, a 200 lb.[91 Kg] static load applied both perpendicular to and vertically down on the arm.

2. Materials (Flammability) shall satisfy applicable test, codes, standards, or requirements as follows:

- a. Copolymer polypropylene shall have a burn rate of 1 inch [25.4mm] or less per ASTM 635.
- b. Upholstery materials shall meet requirements as set forth in the state of California Bureau of Home Furnishings Technical Bulletin 117.
- c. Fire-performance Characteristics of Seat Padding: Provide seating that complies with test method: California Technical Bulletin 117
- d. Cushioning and padding shall be self-extinguishing as defined in the requirements as set forth in the State of California Bureau of Home Furnishings Technical Bulletin 117.

1.04 SUBMITTALS

- A. Section Cross-Reference: Submit required submittals in accordance with "Conditions of the Contract" and Division
 1. General Requirements sections of this "Project Manual."
- B. Project Data: Manufacturer's product data for each system. Include the following:

- C. Shop Drawings: Indicate fixed upholstered chair seating layout. Show all equipment to be furnished with details of accessories to be supplied including necessary electrical service to be provided by others.
- D. Samples: Seat materials and color finish as selected by Architect from manufacturers standard color finishes.
- E. Manufacturer Qualifications: Certification of insurance coverage and manufacturing experience of manufacturer.
- F. Installer Qualifications: Installer qualifications indicating capability, experience, and manufacturer acceptance.
- G. Owners Manuals: Provide Owner's maintenance manual and demonstrate operating procedures.
- H. Warranty: Manufacturers standard five-year warranty documents.

1.05 QUALITY ASSURANCE

- A. Welding Standards & Qualification: Comply with AWS D1.1 Structural Welding Code - Steel and AWS D1.3 Structural Welding Code - Sheet Steel.
- B. Insurance Qualifications: Mandatory that each bidder submit with his bid an insurance certificate from the manufacturer evidencing the following insurance coverage:
 - 1. Workers Compensation - including Employers Liability with the following limits:
 - a. \$500,000.00 Each Accident
 - b. \$500,000.00 Disease - Policy Limit
 - c. \$500,000.00 Disease - Each Employee
 - 2. Commercial General Liability - including premises/ operations, independent contractors and products completed operations liability. Limits of liability shall not be less than \$2,000,000.00
- C. Manufacturer Qualifications: Manufacturer who has 10 years of experience manufacturing spectator seating equipment.
- D. Installer Qualifications: Engage experienced Installer who has specialized in installation of audience seating similar to types required for this project and who is acceptable to, or certified by, fixed upholstered chair seating manufacturer.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver fixed upholstered chair seating in manufacturers packaging clearly labeled with manufacturer name and content.
- B. Handle seating equipment in a manner to prevent damage.
- C. Deliver the seating at a scheduled time for installation that will not interfere with other trades operating in the building.

1.07 PROJECT CONDITIONS

- A. Field Measurements: Coordinate actual dimensions of construction affecting fixed upholstered chair seating installation by accurate field measurements before fabrication. Show recorded measurements on final shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid delay of Work.

1.08 WARRANTY

- A. Manufacturer's Product Warranty: Submit manufacturer's standard warranty form for fixed upholstered chairs. This warranty is in addition to, and not a limitation of other rights Owner may have under Contract Documents.
 - 1. Warranty Period: Five years from Date of Substantial Completion.
 - 2. Beneficiary: Issue warranty in legal name of project Owner.
 - 3. Warranty Acceptance: Owner is sole authority who will determine acceptance of warranty documents.

1.09 MAINTENANCE AND OPERATION

- A. Instructions: An owners manual shall be transmitted to the Owner by the manufacturer of the seating or his representative.
- B. Service: Maintenance and operation of the seating system shall be the responsibility of the Owner or his duly authorized representative, and shall include the following:
 - 1. Only attachments specifically approved by the manufacturer for the specific installation shall be attached to the seating.
 - 2. Periodic annual inspections and required maintenance of each seating system shall be performed according to the owners manual to assure safe conditions.

PART 2 - PRODUCTS

"OR APPROVED EQUAL"

2.01 MANUFACTURERS

- A. Manufacturer: Hussey Seating Company, U.S.A.
 - 1. Address: 38 Dyer St Ext., North Berwick, Maine, 03906
 - 2. Telephone: (207) 676-2271; Fax: (207) 676-9690
 - 3. email: info@hussyseating.com

 - B. Manufacturer: Dealer Direct Office Furniture:
 - 1. Address: 8440 W. Fairview Avenue, Boise, Idaho 83709
 - 2. Telephone: 208-658-2252
 - 3. Email: Sales@dealerdirectofficefurniture.com
- 1. Product:
 - a. Model: **Quattro**
 - b. Series: EXTREME
 - c. Back Foam: 2" [51mm]
 - d. Seat Type: 3" Molded Foam, Full enveloped
 - e. Armrest Type: Plastic
 - f. Standards: Steel
 - g. Chair Mount: Floor Mount
 - h. End Panels: SOFT SQUARE

- 2. Product Description/Criteria:

- a. Number of Chairs: _____
- b. Number of Rows: _____
- c. Number of Wheelchair Locations: _____
- d. Number of ADA Easy Access End Standards: _____
- e. Row Spacing: _____
- f. Rise: _____
- g. Fabric: _____

- 3. Product Accessories: Armrest, End Panels laminated, Row letters, Removable chairs, Aisle lights

2.02 MATERIALS

- A. Cast Aluminum: AA - 380
- B. Steel Tubing: ASTM A513
- C. Steel Sheet/Coil: ASTM A607
- D. Mechanical
- E. Exposed Hardwood Lumber:
- F. Concealed Plywood: Engineered Wood Association PS1-95 2000: Poplar
- G. Exposed Plywood: Hardwood Plywood ANSI/HPVA-1 2000: Birch
- H. Plastic Laminate: NEMA LD3.1-1985, GP 48
- I. Polyurethane Foam Padding: ASTM D-3574
- J. Fabric: 100% Marquesa Lana continuous filament Olefin in the following standard selections:
 - 1. Fabric shall have 16 fill picks per inch, 19 warp ends per inch, weighing 12 oz. [340grams] per linear yard including backing.
- K. Molded plastic: Injection Molded copolymer polypropylene or nylon 6/6.

2.04 DESIGN AND CONCEPT: Auditorium chairs shall be designed to exhibit a modern appearance that will enhance any auditorium's décor. Seats, backs, and standards shall complement each other without the need for end panels or other adornments. Superior comfort will be derived through careful ergonomic engineering, selection of materials, and design of supportive structures.

2.05 FABRICATION

- A. Upholstered Seats:
 - 1. The seat assembly shall consist of a stylish padded and upholstered top surface, a polypropylene bottom shell with dual contours, and a dual sprung lifting mechanism. Seat shall have the ability to achieve a full fold position when rearward pressure is applied. Superior comfort shall be derived through careful ergonomic engineering.

2. Upholstery Pad: The upholstered seat topper shall consist of a 5/8" thick formed ply form base with contoured molded polyurethane foam padding and fabric upholstered cover. Seat padding shall be properly contoured to support the body without causing discomfort. The upholstered seat cover shall exhibit a high degree of tailoring and will be affixed to the base with upholstery staples.
3. Seat Mechanism: Seat lifting mechanism shall use lubricated lifting springs to provide whisper quiet fail-safe operation. The seat structure shall rotate on a 3/4" [19mm] spanner bar to assure shaft alignment and eliminate binding due to irregular floor conditions. Seats shall be certified to withstand 350,000 lifting cycles and a 600lb static load without failure.
4. Standard Bottom Cover: Seat shell/bottom shall be constructed of polypropylene plastic to provide a durable yet aesthetic design. The cover shall protect the mechanical parts of the lifting hinge and upholstered seat topper. The shell / bottom shape shall compliment the overall design of the chair.
5. **SEAT FOAM 3" Molded, Plush**
6. **SEAT COVER TAILORING. Waterfall**
7. Visual appeal and mask typical parasin marks from the blow molding process, The top seating surface shall have no "witness lines" from tooling size inserts but shall have a recessed design reveal to outline the area for a recessed pad option. All structural fasteners shall be molded into the polymer seat.
8. Seat mechanism: Seat lifting mechanism shall use lubricated lifting springs and rubber end stops to provide whisper quiet fail-safe operation. The seat structure shall rotate on a 3/4" [19mm] spanner bar to assure shaft alignment and eliminate binding due to irregular floor conditions. Seats shall be certified to withstand 350,000 lifting cycles and a 600lb static load without failure. The 2 individual seat lifting mechanisms shall be hidden and protected from dirt and contamination with an injection-molded cover, attaching to the polyethylene seat.

B. Classic Series Back (Plastic Outer Back Cover)

1. The outer back panel shall be constructed of injection molded polypropylene Plastic. The panel shall be no less than 27" in length and conceal the rear and sides of the upholstered inner panel. The panel shall extend below the rear of the seat to protect the chair occupant s back.
2. The inner upholstered panel shall be 5/8" (15mm) 11 ply thick-formed hardwood with an ergonomically engineered contour. The wings for attachment of chair back to standard shall be not less than 14 ga (1.9mm) and will be attached via concealed fasteners. Wings shall position the chair back at one of three positions: 15, 18, or 21 degrees. There shall be no exposed fasteners above the seat. Chair back upholstery shall exhibit a high degree of workmanship and customization.
 - a. Round – 36" The top of the back is radiused for stylish looks and a timeless appearance. Overall back height is 36" above the floor allowing proper shoulder support of the chair occupant. The back surface shall be contoured to facilitate proper posture of a seated individual.
3. **BACK FOAM TYPE. 2"(51mm) cut**
4. **BACK COVER TAILORING. Waterfall,**

C. Steel Standards:

1. The top of the standard shall provide for vandal resistant attachment of the armrest, without the use of exposed fasteners on the surface of the arm.
2. Floor mounted standards shall have a 14 gauge [1.9mm] formed steel foot. The formed foot shall be full perimeter welded to the upright tubular member. The floor mount standards shall be manufactured to match floor inclines in order to maintain proper seat height and angle.

D. Cast Aluminum Standards:

1. Standards shall be die cast Aluminum AA380 grade.
2. **FLOOR MOUNT STANDARDS** Standards shall be floor attached, designed to maintain a constant seat height to floor.
3. Cast Aluminum Standards shall be an integral aesthetic part of the chair's appearance and do not require the use of end panels.

E. Seat Hinges:

1. Seat hinges shall be fully contained within the seat pan and fitted with a pair of independent nylon bushings.
2. Each of the independent seat hinges shall be fitted with double acting; self-centering, pre-loaded coiled seat return spring.
3. Seat hinge and spring installation shall be designed not to require periodic adjustment or lubrication.

F. Finish:

1. Finish for Steel / Aluminum Components: (Indoor) Material shall be pre-treated in an iron phosphate wash system prior to finish application. Finish shall be a specially blended polyester T.G.I.C./Epoxy powder coating with a minimum dry film thickness of 1.5 mils.
2. Injection molded polypropylene or nylon: Shall be pigmented, in one of manufacturers standard colors and have a textured surface.
3. Fabric: Upholstery material shall be 100% Marquesa Lana continuous filament Olefin yarn with one of manufacturer's standard fabric offerings.
4. Color: Shall be per manufacturer's standards. Seating Contractor shall submit color samples for owner's approval prior to manufacture.

G. Armrests:

5. Armrests, Injection Molded Plastic: Armrests shall be of injection molded, textured polypropylene. Armrest to be secured to standard with concealed fasteners.

2.06 FASTENINGS

A. Chair Assembly

1. All welds shall be made at the factory by welders that are certified on the equipment and process used.
2. All structural connections shall be made with S.A.E. stress rated zinc plated or, black oxide steel bolts, washers and nuts.

B. Concrete Floor Attachment

1. Chair stanchions shall each be attached by means of two 1/4"[6mm] mechanical wedge anchors set in holes drilled to a minimum depth of 2"[50mm] in the concrete.

Wedge anchors shall be tested to ASTM E488 criteria and listed by ICBO and SBCCI. Wedge anchors feature a type 18-8 stainless steel split expansion ring and a threaded stud bolt body and integral cone expander, and a nut and washers. Stanchion shall be placed on the bolts, stanchions to be permanently secured with a flat washer, lock washer and nut.

2.07 ACCESSORIES

- A. End Panels, Plastic Laminate: End panels to be 1/2"[13mm] MDF, finished with laminated plastic. (Select End Panel Shape: Quattro Style, SoftSquare, Round or T1 Tablet Arm) End panels to be furnished per Plan of Seating.
- B. Standard Row Letters: Black text with gray background on a 23/32" x 2 7/32" [18.5mm x 56.5mm] elliptical Lexan plate. Plate fitted in a vandal resistant recess located in rear of armrest and secured with adhesive.
- C. T2m Folding Laptop Tablet Arm for reduced row spacing: Tablet arm to be 18 7/8" x 12 1/2" [480mm x 320mm] with rounded corners. Top and bottom surfaces to be high pressure laminate over solid core plywood. Tablet arm to store within users' chair beneath the seat.
- D. Removable Chairs: Provide chairs to be floor mounted and ganged in groups of one, two, or three chair units for easy removal. Chair standards shall be mounted to a painted steel skid base. Skid base with chairs shall be easily removed from the concrete floor by means of flush mounted internally threaded expansion anchors positioned under each leg of the skid. When removed, the anchor holes are filled by flat head bolts to provide a flat surface and prevent dirt and debris from entering.
- E. Seat Number Plates: Chair numbers shall be black numerals etched on an elliptical aluminum plate. Number plates to be located in vandal resistant recess in the upper left hand corner of the back and secured using two (2) aluminum pop rivets.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Verify areas to receive fixed upholstered chair seating are free of impediments interfering with installation and condition of installation substrates are acceptable to receive audience seats in accordance with seating manufacturer's recommendations. Do not commence installation until conditions are satisfactory.

3.02 INSTALLATION

- A. Manufacturer's Recommendations: Comply with seating manufacturer's recommendations for product installation requirements.

- B. General: Install fixed upholstered chair system in accordance with manufacturer's installation instructions and final shop drawings. Provide accessories, anchors, fasteners, inserts and other items for installation of seating and for permanent attachment to adjoining construction.

3.03 ADJUSTMENT AND CLEANING

- A. Adjustment: After installation completion, all equipment is to be adjusted for smooth and proper operation.
- B. Cleaning: Clean work area and remove debris from site.

3.04 PROTECTION

- A. General: Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer to ensure audience seats are without damage or deterioration at time of substantial completion.

END OF SECTION