

MANSFIELD MIDDLE SCHOOL GYM FLOOR REPLACEMENT PROJECT

**205 SPRING HILL ROAD
STORRS, CT 06268**

S/P+A Project No. 16.208

DATE: April 5, 2017

The following changes to the Drawings and Project Specifications shall become a part of the Drawings and Project Specifications; superseding previously issued Drawings and Project Specifications to the extent modified by Addendum No. 1.

General Information/Clarifications: Not Applicable

New Specifications Added (attached as part of this Addendum):

- 126600 “Telescoping Stands”. (6 pages)

Changes to the Specifications: Not Applicable

New Drawings Added (attached as part of this Addendum): Not Applicable

Changes to the Drawings: Not Applicable

The bid due dates are unchanged by this Addendum.

The Addendum consists of seven (7) pages of 8½” x 11” text.

End of Addendum #1

SECTION 126600 - TELESCOPING STANDS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Wall-attached, electrically operated telescoping stands.

1.3 PERFORMANCE REQUIREMENTS

- A. Third Party Review: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements", to review the load calculations of the telescoping stands assembly, including attachment to building construction.
- B. Structural Performance: Telescoping stands shall withstand the effects of gravity loads and loads and stresses within limits and under conditions indicated according to ICC/ANSI 300.
 - 1. Railings, posts and sockets designed to withstand the following forces applied separately:
 - a. Handrails shall be designed and constructed for:
 - 1) A concentrated load of 200 lbs. applied at any point and in any direction.
 - 2) A uniform load of 50 lbs. per ft. applied in any direction.
 - b. Guards shall be designed and constructed for:
 - 1) A concentrated load of 200 lbs. applied at any point and in any direction along the top railing member and;
 - 2) A uniform load of 50 lbs. per ft. applied horizontally at the required guardrail height and simultaneous uniform load of 100 lbs. per ft. applied vertically downward at the top of the guardrail.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for telescoping stands.
- B. Shop Drawings: For telescoping stands in both stacked and extended positions. Include plans, elevations, sections, details, and attachments to other work.
 - 1. Wiring Diagrams: For power, signal, and control wiring.

- C. Samples: For each type of exposed finish required, prepared on Samples of size indicated below:
 - 1. Decking: 6-inch-square Samples of finished material.
 - 2. Metal Components: 6-inch-square Sample of each color and finish indicated.
 - 3. Seating: 6-inch-square Sample of each seating material, color, and finish indicated.
 - 4. Signage: Full-size units for row letters, seat numbers, each type of accessibility sign and custom graphics.
- D. Delegated-Design Submittal: For telescoping stands indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified Installer.
- B. Welding certificates.

1.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For telescoping stands to include in operation and maintenance manuals.
 - 1. Precautions for cleaning materials and methods that could be detrimental to telescoping stand finishes and performance.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
- B. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1, "Structural Welding Code - Steel," and AWS D1.3, "Structural Welding Code - Sheet Steel."
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- D. Standard: Provide telescoping stands to comply with ICC/ANSI 300.
- E. Regulatory Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1.

1.8 PROJECT CONDITIONS

- A. Field Measurements: Verify actual dimensions of openings and construction contiguous with telescoping stands by field measurements before fabrication. Verify locations of walls, columns, and other construction that will interface with operating telescoping stands.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Wood:

1. Plywood: APA-grade trademarked, DOC PS 1.

B. Steel:

1. Structural-Steel Shapes, Plates, and Bars: ASTM A 36.
2. Galvanized-Steel Sheet: ASTM A 653, G90 coating designation.
3. Tubing: ASTM A 500, cold formed; ASTM A 501, hot formed; or ASTM A 513, mechanical.

C. Extruded Aluminum: ASTM B 221, alloy as standard for manufacturer.

D. Polyethylene Plastic: High-density polyethylene; molded, color-pigmented, textured, impact-resistant, structural formulation.

2.2 TELESCOPING STANDS

A. General: Operable systems of multiple-tiered seating on interconnected folding platforms that close, without being dismantled, into a nested stack for storing. Stand units permit opening and closing of adjacent rows, allow individual and collective rows to be locked open for use, and close with vertical faces of upper skirts on the same vertical plane.

B. Wall-Attached Telescoping Stands: Forward-folding system, in which the bleachers open in the forward direction by initially moving the front row away from the stack to the fully extended position, and the rear of bleacher understructure is permanently attached to wall construction.

1. Basis of Design:

- a. Hussey Seating Company; **Maxam**

2. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

- a. Irwin Telescopic Seating Company
- b. Kodiak Industries Ltd.
- c. Substitutions: Under provisions of Section 012500 "Substitution Procedures".

3. Row Spacing: As indicated on Drawings.

4. Row Rise: As indicated on Drawings.

5. Operation: Automatic, friction-type, integral power unit.

- a. Limit Switches: Automatically stop integral power system when telescoping stands reach fully opened or closed positions.
- b. Motion Monitor: Flashing light with self-contained warning horn, rated at 85 dB at 10 feet, mounted under telescoping seating for audio and visual warning during integral power operation.

- c. Transformer: As required to coordinate current characteristics of motor and control station with building electrical system.
- d. Remote Control: Manufacturer's standard, wall-attached system.

2.3 COMPONENTS

- A. Benches: Seats and skirts.
 - 1. Material: Molded polyethylene plastic with contour surfaces.
 - a. Color: As selected by Architect and Owner from manufacturer's full range.
 - 2. Bench Height: Not less than 16 inches or more than 18 inches.
 - 3. Bench Depth: 10 inches.
- B. Wheelchair-Accessible Seating: Locate permanent seating cutouts to provide wheelchair-accessible seating at locations indicated on Drawings.
 - 1. Equip tiers adjacent to wheelchair-accessible seating with front rails as required by referenced safety standard.
 - 2. Equip cutouts with full-width front closure panels that match decking construction and finish and that extend from underside of tiers adjacent to cutouts to 1½ inches from finished floor.
- C. Deck: Aluminum.
 - 1. Finish: Clear anodized.
- D. Risers: Steel sheet with manufacturer's standard, rust-inhibiting coating or hot-dip galvanized finish.
- E. Safety Rails: Structural steel, finished with manufacturer's standard powder coat system.
 - 1. Folding mid-aisle handrails located at centerline of each vertical aisle with seating on both sides.
 - 2. End rails (guards) that are telescoping and self-storing.
 - 3. Back rails (guards) along rear of units where required by referenced safety standard.
 - 4. Fixed front rails (guards) along front of units where required by referenced safety standard.
 - 5. Fixed rails around accessible seating cutouts and truncations.
 - 6. Removable, programming-support front rails to allow seating in upper rows while lower rows remain in the stored position.
 - 7. Color: As selected by Architect and Owner from manufacturer's full range.
- F. Understructure: Structural steel.
 - 1. Finish: Manufacturer's standard rust-inhibiting finish.
 - 2. Color: Manufacturer's standard.
- G. Support Column Wheels: Nonmarring, soft, rubber-face wheel assembly under each support column.

1. Include wheels of size, number, and design required to support stands and operate smoothly without damaging the flooring surface, but no fewer than four (4) per column or less than 3½ inches in diameter and 1 inch wide.

H. Fasteners: Vibration proof, in manufacturer's standard size and material.

2.4 ACCESSORIES

A. Steps:

1. Slip-resistant, abrasive tread surfaces at vertical aisles.
2. Intermediate aisle steps, fully enclosed, at each vertical aisle.
3. Transitional top step, fully enclosed, at each vertical aisle where last row of telescoping stands is adjacent to a cross aisle.
4. Removable front steps, fully enclosed, at each vertical aisle, that engage with front row to prevent accidental separation or movement and are equipped with a minimum of four skid-resistant feet.

B. Stairs: Portable access-stair units equipped with handrails, with no fewer than four full-swiveling, nonmarring wheels and a locking mechanism to prevent movement during use.

C. Closure Panels and Void Fillers:

1. Aisle closures at foot level that produce flush vertical face at aisles when system is stored.
2. End panels covering exposed ends of stands in the stored position.
3. Back panels covering rear of freestanding units. Panels extend full height and width of unit.
4. Panels at cutouts and truncations for accessible seating.
5. Rear fillers including supports for closing openings between top row and rear wall of adjoining construction.
6. Gap fillers for closing openings between stand units or between stand units and adjoining construction.

D. Signage:

1. Row letters at each row end.
2. Seat numbers at 18 inches o.c. on benches.
3. Accessibility signs at each accessible space.

E. Scorer's Table: Removable unit that attaches to mounting sockets installed in telescoping stand unit.

2.5 FABRICATION

A. Fabricate understructure from structural-steel members in size, spacing, and form required to support design loads specified in referenced safety standard.

B. Weld understructure to comply with applicable AWS standards.

- C. Round corners and edges of components and exposed fasteners to reduce snagging and pinching hazards.
- D. Form exposed sheet metal with flat, flush surfaces, level and true in line, and without cracking and grain separation.
- E. Seating Supports: Fabricate supports to withstand, without damage to components, the forces imposed by use of stands without failure or other conditions that might impair the usefulness of seating units.
 - 1. Cantilever bench seat supports to produce toe space uninterrupted by vertical bracing.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas where telescoping stands are to be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install telescoping stands to comply with referenced safety standard and manufacturer's written instructions.

3.3 ADJUSTING AND CLEANING

- A. On completion of installation, lubricate, test, and adjust each telescoping stand unit so that it operates according to manufacturer's written operating instructions.
- B. Clean installed telescoping stands on exposed and semiexposed surfaces. Touch up shop-applied finishes or replace components as required to restore damaged or soiled areas.

3.4 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain telescoping stands.

END OF SECTION 126600