ADDENDUM

DATE: October 3, 2019

PROJECT: Hazel Park School – HPHS Interior Build Out – New Medical Center

TMP PROJECT NO.: 18097

ADDENDUM NO.: One (1)

The Bidding Documents are modified, supplemented or augmented as follows and this Addendum is hereby made a part of the proposed Contract Documents.

The following Drawings and attachments are issued with this Addendum.

Drawing Nos.: A1.1, AD.1

Attachments: Specification Sections: 095113, 100100

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>SPECIFICATION CHANGES</th>
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<tbody>
<tr>
<td>SC-1</td>
<td>Refer to Section TC – Table of Contents (not reissued):</td>
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<tr>
<td></td>
<td>A. Removed section to the Table of Contents as follows:</td>
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<tr>
<td></td>
<td>“093000 Tile”</td>
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<td>B. Added new section to the Table of Contents as follows:</td>
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<td>“095113 Acoustical Ceilings”</td>
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<td>SC-2</td>
<td>Refer to Section 093000 – TILE (not reissued):</td>
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<tr>
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<td>A. Removed section in its entirety.</td>
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<tr>
<td>SC-3</td>
<td>Refer to Section 095113 – ACOUSTICAL CEILINGS (new):</td>
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<tr>
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<td>A. Added section in its entirety.</td>
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<td>SC-4</td>
<td>Refer to Section 100100 – MISCELLANEOUS SPECIALTIES (reissued):</td>
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<td>A. Revised section 2.2 as indicated.</td>
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ITEM NO. | ARCHITECTURAL DRAWING CHANGES
---|---
AD-1 | Refer to Drawing No. A1.1 (reissued):
A. Added signage note to legend as indicated on drawing.
B. Added signage locations as indicated on drawing.
C. Added Finish Legend and General Notes as indicated on drawing.
D. Added Work Notes as indicated on drawing.
E. Added lintel note at Door A110A as indicated on drawing.
F. Added Cubicle Track and Curtain call out as indicated on drawing.
AD-2 | Refer to Drawing No. AD.1 (reissued):
A. Added Interior Signage Schedule.

**END OF ADDENDUM NO. 1**
ACOUSTICAL CEILINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following types of acoustical ceilings.
   1. Acoustical panel ceilings installed with exposed suspension systems.

B. Related Sections: The following sections contain requirements that relate to this section:
   1. Division 9 Section "Gypsum Wallboard Assemblies" for gypsum board substrate for adhered acoustical tile.
   2. Division 15 for grilles, registers, and diffusers and sprinkler heads in acoustical ceilings.
   3. Division 16 for lighting fixtures in acoustical ceilings.

1.3 SUBMITTALS

A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.
B. Product data for each type of product specified.
C. Samples for initial selection purposes in form of manufacturer's color charts consisting of actual acoustical units or sections of units showing full range of colors, textures, and patterns available for each type of unit indicated.
D. Samples for verification purposes of each type of exposed finish required, prepared on samples of size indicated below and of same thickness and material indicated for final unit of Work. Where finishes involve normal color and texture variations, include sample sets showing full range of variations expected.
   1. 6-inch-square samples of each acoustical panel type, pattern, and color.
   2. Set of 12-inch-long samples of exposed suspension system members, including moldings, for each color and system type required.
E. Qualification data for firms and persons specified in "Quality Assurance" article to demonstrate their capabilities and experience. Include list of completed projects with project names, addresses, names of Architects and Owners, and other information specified.
F. Product test reports from qualified independent testing laboratory that are based on its testing of current products for compliance of acoustical ceiling systems and components with requirements.
1.4 QUALITY ASSURANCE

A. Installer Qualifications: Engage an experienced Installer who has successfully completed acoustical ceilings similar in material, design, and extent to those indicated for Project.

B. Fire-Performance Characteristics: Provide acoustical ceilings that are identical to those tested for the following fire-performance characteristics, per ASTM test method indicated below, by UL or other testing and inspecting organizations acceptable to authorities having jurisdiction. Identify acoustical ceiling components with appropriate markings of applicable testing and inspecting organization.

1. Surface Burning Characteristics: As follows, tested per ASTM E 84 and complying with ASTM E 1264 for Class A products.
   a. Flame Spread: 25 or less.
   b. Smoke Developed: 50 or less.

2. Fire-Resistance Ratings: As indicated by reference to design designations in UL "Fire Resistance Directory," for types of assemblies in which acoustical ceilings function as a fire-protective membrane and tested per ASTM E 119.
   a. Protect lighting fixtures and air ducts to comply with requirements indicated for rated assembly.

C. Single-Source Responsibility for Ceiling Units: Obtain each type of acoustical ceiling unit from a single source with resources to provide products of consistent quality in appearance and physical properties without delaying progress of the Work.

D. Single-Source Responsibility for Suspension System: Obtain each type of suspension system from a single source with resources to provide products of consistent quality in appearance and physical properties without delaying progress of the Work.

E. Coordination of Work: Coordinate layout and installation of acoustical ceiling units and suspension system components with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system components (if any), and partition system (if any).

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver acoustical ceiling units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes.

B. Before installing acoustical ceiling units, permit them to reach room temperature and a stabilized moisture content.

C. Handle acoustical ceiling units carefully to avoid chipping edges or damaging units in any way.

1.6 PROJECT CONDITIONS

A. Space Enclosure: Do not install interior acoustical ceilings until space is enclosed and weatherproof, wet-work in space is completed and nominally dry, work above ceilings is complete, and ambient conditions of temperature and humidity will be continuously maintained at values near those indicated for final occupancy.
1.7 EXTRA MATERIALS

A. Deliver extra materials to Owner. Furnish extra materials described below that match products installed, are packaged with protective covering for storage, and are identified with appropriate labels.

1. Acoustical Ceiling Units: Furnish quantity of full-size units equal to 2.0 percent of amount installed.

2. Exposed Suspension System Components: Furnish quantity of each exposed component equal to 2.0 percent of amount installed.

PART 2 - PRODUCTS

2.1 ACOUSTICAL PANELS

A. Manufacturer: Subject to compliance with requirements provide products as follows:

1. ACT1 USG Interiors
   Radar ClimaPlus
   Item No.: 2220
   Size: 24” x 24” x 5/8”
   Edge: SLT
   Color: White
   Or Equal By: Armstrong, CertainTeed

2.2 METAL SUSPENSION SYSTEMS

A. Suspension systems shall conform to ASTM C-635 for "intermediate duty" classification, except that where quantity or weight of ceiling fixtures would create deflection of greater than 1/360 of the span length, "heavy duty" system shall be used or ceiling grid shall be reinforced in a manner to maintain deflection of less than 1/360 of the span length. The General and Supplementary Conditions shall take precedence over Section 6 (Inspection) of ASTM C-635. All recessed light fixtures shall be supported by main runners on not less than two opposite sides.

1. Exposed portions shall receive a factory applied matte white baked enamel finish.

B. Manufacturer: Subject to compliance with requirements provide products as follows:

1. Grid at ACT1:
   a. USG Interiors
      Donn DX Suspension System with 15/16” Exposed Face
      Color: White
      Or Equal By: Armstrong, CertainTeed

C. Edge trim system: Subject to compliance with requirements provide products as follows:

1. Edge trim: Provide where indicated on Drawings. Include all required accessories and components for a complete installation.
   a. USG Interiors
      Compasso Suspension Trim
      Depth: As indicated on Drawings
PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and structural framing to which ceiling system attaches or abuts, with Installer present, for compliance with requirements specified in this and other sections that affect installation and anchorage of ceiling system. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less-than-half-width units at borders, and comply with reflected ceiling plans.

3.3 INSTALLATION

A. General: Install acoustical ceiling systems to comply with installation standard referenced below, per manufacturer's instructions and CISCA "Ceiling Systems Handbook."


B. Arrange acoustical units and orient directionally patterned units (if any) in a manner shown by reflected ceiling plans.

C. Suspend ceiling hangers from building structural members and as follows:

1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structural or ceiling suspension system. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, counter-splaying, or other equally effective means.

2. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with the location of hangers at spacings required to support standard suspension system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards.

3. Secure wire hangers by looping and wire-tying, either directly to structures or to inserts, eyescrews, or other devices that are secure and appropriate for substrate, and in a manner that will not cause them to deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.

4. Secure flat, angle, channel, and rod hangers to structure, including intermediate framing members, by attaching to inserts, eyescrews, or other devices that are secure and appropriate for structure to which hangers are attached as well as for type of hanger involved, and in a manner that will not cause them to deteriorate or fail due to age, corrosion, or elevated temperatures.

5. Do not support ceilings directly from permanent metal forms; furnish cast-in-place hanger inserts that extend through forms.
6. Do not attach hangers to steel deck tabs.

7. Do not attach hangers to steel roof deck. Attach hangers to structural members.

8. Space hangers not more than 4'-0" o.c. along each member supported directly from hangers, unless otherwise shown, and provide hangers not more than 8 inches from ends of each member.

D. Install edge moldings of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical units.

1. Sealant Bed: Apply continuous ribbon of acoustical sealant, concealed on back of vertical leg before installing moldings.

2. Screw-attach moldings to substrate at intervals not over 16 inches o.c. and not more than 3 inches from ends, leveling with ceiling suspension system to tolerance of 1/8 inch in 12'-0". Miter corners accurately and connect securely.

E. Install acoustical panels in coordination with suspension system, with edges concealed by support of suspension members. Scribe and cut panels to fit accurately at borders and at penetrations.

1. Install hold-down clips in areas indicated and in areas where required by governing regulations or for fire-resistance ratings; space as recommended by panel manufacturer, unless otherwise indicated or required.

3.4 CLEANING

A. Clean exposed surfaces of acoustical ceilings, including trim, edge moldings, and suspension members. Comply with manufacturer's instructions for cleaning and touch-up of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

**END OF SECTION**
MISCELLANEOUS SPECIALTIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes miscellaneous items as specified in Part 2 below.

B. Related Sections include the following:

1. Division 5 “Metal Fabrication” for miscellaneous framing and supports.

2. Division 16 sections for electrical power supply wiring and motor connections.

1.3 SUBMITTALS

A. Product Data: For each product indicated, include construction details, materials, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: Show fabrication and installation details. Indicate dimensions, weights, loadings, required clearances, method of field assembly, and components. Include plans, elevations, sections, details, and attachments to other Work.

1. Include location and installation requirements for electrical components.

C. Wiring diagrams detailing power and control wiring. Differentiate between manufacturer-installed and field-installed wiring.

D. Samples for Initial Selection: Manufacturer's sample finishes showing the full range of colors and textures available for units with factory-applied color finishes.

E. Samples for Verification: For each type of exposed finish required, prepared on Samples in manufacturer's standard sizes, and of same thickness and material indicated for the Work. If finishes involve normal color or shade variations, include sample sets showing the full range of variations expected.

F. Maintenance Data: Maintenance manuals for maintaining and repairing miscellaneous specialties.

1.4 MISCELLANEOUS SPECIALTIES DESCRIPTION

A. Miscellaneous Specialties are items that are purchased completely fabricated and delivered to the jobsite for installation by other than the original fabricator.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply for product selection:
1. Basis-of-Design Products: The design for each miscellaneous item specified is based on the product named. Subject to compliance with requirements, provide either the named product or a comparable product by one of the other manufacturers specified.

2.2 CUBICLE TRACKS AND CURTAINS

A. Cubicle Track System:

1. General: Heavy duty extruded aluminum cubicle track. Provide straight and bent sections as indicated on Drawings.
   a. Minimize joints. Where required due to length of layout, locate joints to minimize curtain travel over joint.


5. Track Hardware:
   a. Track Splices: Extruded aluminum.
   b. End Caps: Molded thermoplastic for each end of track section; match track color.
   c. Fasteners: Provide appropriate attachment accessories as required for ceiling construction.

6. Accessories:
   a. Curtain Carriers: Provide curtain carriers with non-binding nylon rollers to accurately fit track.
      1) Carriers to be fitted to curtain to prevent accidental curtain removal.
      2) Provide 2.2 carriers per lineal foot of track, plus one additional carrier.
   b. Adjustable Drop Chain: Provide drop chain and field adjust to accommodate curtain at desired height for air circulation.
   c. Wands: Provide wand to move curtain along the track
   d. Provide fabric curtain tie back, 3 inches wide by 18 inches long with velcro on each end to hold curtain back.

7. Product: Subject to compliance with requirements provide Clickeze Ultra Cubicle Track as manufactured by Inpro Corp; www.inprocorp.com or a comparable product by one of the following:

B. Cubicle Curtains:

1. Curtain Fabrication: Fabricate curtains to comply with the following requirements:
   a. Width: Equal to track length from which curtain is hung plus 10 percent added fullness.
b. Length: Equal to floor-to-ceiling height less distance above the finished floor at bottom as follows.
   1) Bottom Edge of Curtain: 12 inches above finished floor.

c. Fabric to be tabled for squareness.

d. All joining seams will be achieved with a 1/2 inch gauge double needle lock stitch.
   1) All seams to be flat with no puckering.
   2) Any pattern to be properly matched before serging.

e. Mesh Top: Top 18 inches of curtain shall be 1/2 inch aperture, 100 percent nylon mesh.
   1) Top edge to include crinoline for support.
   2) Color: White.

f. Curtain grommets: Two-piece, rolled-edge, rustproof, nickel-plated brass; spaced not more than 6 inches o.c.; machined into top hem.

2. Replacement Materials:

   a. For each curtain size, provide two cubicle curtains for attic stock.

3. Curtain Fabric:

   a. General:
      1) Fabrics are launderable to a temperature of not more than 160 deg F.
      2) Fabrics are inherently flame resistant and area identical to those that have passed NFPA 701 when tested by a testing and inspecting agency acceptable to authorities having jurisdiction.
      3) Fabrics shall be Greenguard certified.
      4) Identify fabrics with appropriate markings of applicable testing and inspecting agency.

   b. Curtain Fabric:
      1) Material Content: 60 percent solution dyed polyester, 21 percent post-consumer recycled FR polyester, 19 percent FR polyester.
         a) Weight: 10.0 oz/ly.
      2) Product: Subject to compliance with requirements provide the following:
PART 3 – EXECUTION

3.1 INSTALLATION, GENERAL

A. Install all products at locations indicated in compliance with manufacturer’s written installation instructions.

B. Provide all accessories, including mounting hardware and trim, for a complete installation.

C. Coordinate product installations with all adjacent construction.

D. Connect products requiring power to building’s electrical system according to manufacturer’s written instructions.

E. Test products to verify that all functions properly operate in a safe and efficient manner.

3.2 PROTECTION AND CLEANING

A. Protect products after installation from damage during construction. If despite such protection damage occurs, remove or replace damaged components or entire unit as required to provide units in their original undamaged condition.

**END OF SECTION**