PART 1 GENERAL

1.01 SECTION INCLUDES

SECTION 10 2213 WIRE MESH PARTITIONS

A. Wire mesh systems for walls and ceilings.

1.02 RELATED REQUIREMENTS

A. Section 01 3329.02 Sustainable Design Reporting - LEED v4.
B. Section 08 7100 - Door Hardware: Cylinders for locksets.

1.03 REFERENCE STANDARDS

A. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2018.
B. ASTM A510/A510M - Standard Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel, and Alloy Steel; 2018.
C. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2015, with Errata (2016).

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide data for mesh materials, finishes.
C. Shop Drawings: Indicate plan and vertical dimensions, elevations, component details; head, jamb, and sill details; location of hardware. Provide component details, anchorage, and type and location of fasteners.
    1. Show field measurements on shop drawings.
D. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Wire Mesh Partitions provided by Southwest Solutions Group. southwestsolutions.com Phone: (800) 803-1083.
B. The materials, products and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance and quality to be met by any proposed substitution
C. No substitution will be considered prior to receipt of Bids unless written request for approval has been received by the Architect at least ten days prior to the date for receipt of Bids. Such requests shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitution including drawings, performance and test data, and other information necessary for an evaluation. A statement setting forth changes in other materials, equipment or other portions of the Work, including changes in the work of other contracts that incorporation of the proposed substitution would

require, shall be included. The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect's decision of approval or disapproval of a proposed substitution shall be final.

D. Requests for substitutions will be considered in accordance with provisions of Section 01600. If the Architect approves a proposed substitution prior to receipt of Bids, such approval will be set forth in an Addendum. Bidders shall not rely upon approvals made in any other manner.

E. Substitutions: See Section 01 6000 - Product Requirements.

2.02 WIRE MESH PARTITIONS

A. Wire Mesh Partitions: Factory-fabricated modular assemblies of panels, doors, anchors, hardware, and accessories as required to provide a complete system.

1. Design Criteria:
   a. Design partition system to provide for movement of components without damage, undue stress on fasteners or other detrimental effects, when subject to design loads.
   b. Design system to accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.
   c. Comply with applicable code for wire mesh opening size.
2. Performance:
   a. Installed Wall Assembly: Resist a lateral load of 250 lbs without damage or permanent set.
   b. Hinged Door and Panel in Open Position: Resist a downward load of 250 lbs (1112 N) without damage or permanent set.

2.03 COMPONENTS

A. Woven Wire Mesh: Heavy duty.

1. Material: ASTM A510/A510M uncoated crimped steel wire. 2. Frame: 1-1/4" x 1-1/4" x 1/8" Angle
3. Door Frame: 1-1/4" x 1-1/4" x 1/8" Angle
4. Warp and Fill Wire Size: 10 gage, 0.1019 inch (2.59 mm).
5. Mesh Opening Size: 1 x 2 inch (50 mm).
6. Mesh Weave: Plain weave, double crimped.
7. Posts: 2" x 2" 14 ga. square tubing

B. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.

2.04 FASTENERS

A. Bolts, Nuts and Washers: Hot dip galvanized.

B. Anchorage Devices: Provide power driven, powder actuated, and drilled expansion bolts.

2.05 ACCESSORIES

A. Plates, Gussets, Clips: Formed sheet steel, thickness determined for conditions encountered, manufacturer's standard shapes, same finish as framing members.

B. Post Caps: Manufacturer's standard.

C. Floor and Ceiling Pilaster Shoe: Manufacturer's standard.

2.06 FABRICATION

A. Fit and assemble in largest practical sections for delivery to site, ready for installation.
B. Make exposed joints flush or tight.
C. Provide components required for anchorage to adjacent construction.
D. Frame openings made for penetrating mechanical and electrical components.

2.07 FINISHES

A. Painted Finish: Manufacturer's standard powder coat finish.
    1. Color: Gray.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field measurements are as indicated.
B. Verify that substrate surfaces and required openings are readyto receive work.

3.02 PREPARATION

A. Clean substrate surfaces.

3.03 INSTALLATION

A. Install in accordance with manufacturer's instructions.
B. Install items plumb and level, accurately fitted, free from distortion or defects.

3.04 TOLERANCES

A. Maximum Variation From Plumb or Level: 1/4 inch (6 mm).
B. Maximum Misalignment From True Position: 1/4 inch (6 mm).

3.05 CLEANING

A. Remove temporary protection to prefinished surfaces.

END OF SECTION