

SECTION 01100 - SUMMARY

PART 1 - GENERAL

1.1 PROJECT INFORMATION

- A. Project: 13-ACRHS Minitorium Wall Panels Replacement
 - 1. Project Location: AC Reynolds High School, 1 Rocket Drive, Asheville, NC, 28803
- B. Owner: Buncombe County Board of Education.
- C. Architect: Mary Beth Kingston, Assistant Director of Facilities, Buncombe Co. Schools
- D. The Work is on the façade of the Minitorium as it extends above the main roof of the school and consists of removing asbestos transite panels and installing a new metal panel faced rainscreen wall system and rigid insulation to meet the 2012 NC Energy Conservation Code. Work will also include installation of nailers and extended roof edge.
- E. Work by Owner: Provide lined dumpster as required for asbestos disposal.
- F. Work Under Separate Contracts:
 - None

1.2 WORK RESTRICTIONS

- A. Contractor's Use of Premises: During construction, Contractor will have limited use of building indicated. Contractor's use of premises is limited only by Owner's right to perform work or employ other contractors on portions of Project and as follows:
 - 1. Work may be completed during school hours as coordinated with the school principal. If work disrupts instruction or poses a safety issue the principal may request work temporarily stop. Contractor to coordinate site conditions with student arrival and dismissal.
 - 2. Clean up work areas and return to usable condition at the end of each work period. Contractor to coordinate construction with the school's schedule if work noise is disrupting classroom work or student testing is in progress.
 - 3. Limits: Coordinate site access and staging areas at a pre-construction meeting and with the school principal.

1.3 SCHEDULE

- A. Work schedule is 90 days calendar from the issuance of Purchase Order.

END OF SECTION 01100

SECTION 01200 – ALTERNATE & CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 ALLOWANCES

- A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include taxes, freight and delivery to Project site.
- B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials under allowance shall be included as part of the Contract Sum and not part of the allowance.

1.2 UNIT PRICES

- A. Unit price is an amount incorporated in the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased. Unit prices are also the basis for quantities described in Allowances portion of the work.
- B. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.

1.3 ALTERNATES

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 SUBSTITUTION PROCEDURES

- A. Substitutions include changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor after award of the Contract.

SECTION 01200 – ALTERNATE & CONTRACT MODIFICATION PROCEDURES

1. Submit three copies of each request for product substitution.
2. Submit requests within 10 days after the Notice of Award.
3. Do not submit unapproved substitutions on Shop Drawings or other submittals.
4. Identify product to be replaced and show compliance with requirements for substitutions. Include a detailed comparison of significant qualities of proposed substitution with those of the Work specified, a list of changes needed to other parts of the Work required to accommodate proposed substitution, and any proposed changes in the Contract Sum or the Contract Time should the substitution be accepted.
5. Architect will review the proposed substitution and notify Contractor of its acceptance or rejection.

1.5 CONTRACT MODIFICATION PROCEDURES

- A. Architect will issue supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time.
- B. Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work.
 1. Proposal Requests are not instructions either to stop work in progress or to execute the proposed change.
 2. Within 20 days, when not otherwise specified, after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time.
- C. Contractor-Initiated Proposals: If latent or changed conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to Architect.
- D. Architect may issue a Construction Change Directive. Construction Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in the Purchase Order.
 1. Construction Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.
- E. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

SECTION 01200 – ALTERNATE & CONTRACT MODIFICATION PROCEDURES

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALLOWANCES

None

3.2 SCHEDULE OF UNIT PRICES

None

3.3 SCHEDULE OF ALTERNATES

Alternate (Z purlins & 1 1/2" polyiso) #1: In place of the noted hat channels, fasteners and 2" extruded insulation: Provide 1 1/2" thick 25 psi polyisocyanurate insulation and 16ga z-purlins with tapcons on same spacing as hat channels.

END OF SECTION 01200

SECTION 01300 - ADMINISTRATIVE REQUIREMENTS

PART 1 - GENERAL

1.1 PROJECT MANAGEMENT AND COORDINATION

- A. Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work.

1.2 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

- A. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 - 1. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
 - 2. Submittal Review time: 7 work days from receipt of submittal by Architect to call to pick up / e-mail of review comments back to contractor.
 - 3. Allow Architect 7 work days to process each resubmittal.
 - 4. Partial or incomplete submittals will be returned to contractor.
 - 5. Submit **three** copies of each submittal. Architect will return **two** copies.
- B. Identify, highlight or circle deviations from the Contract Documents on submittals. A written explanation of any deviation or substitution request is required for consideration by Architect.
- C. Submittals must be accepted in writing prior to commencement of work.

1.3 SCHEDULE OF SUBMITTALS

- A. Prior to issuance of Purchase Order by Buncombe County Schools, Contractor to provide:
 - 1. Copy of Certificate of Insurance.
 - 2. Copy of Performance and Payment Bonds (for projects over \$ 100,000.00).
- B. Prior to commencement of construction, Contractor to provide:
 - 1. Copy of Construction Permits.
 - 2. Copy of sample warranties.
 - 3. Letter describing proposed changes, deviations or substitution request with explanation of why substitutions should be considered.
 - 4. Rough Carpentry.
 - 5. Channel and Fastener materials and layout.
 - 6. Insulation.
 - 7. 12" Self adhering EPDM seamstripping and membrane Roofing submittals.
 - 8. Metal wall panel, Sheet Metal Flashing and Trim submittals.
 - 9. Photo or video documentation of existing damaged building components. Lack of submission prior to commencement of work indicates Contractor has discovered

SECTION 01300 - ADMINISTRATIVE REQUIREMENTS

no existing damaged components and assumes responsibility for any damages caused by operations.

10. Complete list of materials with Material Safety Data Sheets.

PART 2 - PRODUCTS

2.1 SUBMITTALS

- A. **Product Data:** Mark each copy to show applicable products and options. Include the following:
 1. Manufacturer's written recommendations, product specifications, and installation instructions.
 2. Testing by recognized testing agency.
 3. Compliance with specified standards and requirements.
- B. **Shop Drawings:** Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data. Include the following:
 1. Dimensions and identification of products.
 2. Fabrication and installation drawings and roughing-in and setting diagrams.
 3. Notation of coordination requirements.
 4. Notation of dimensions established by field measurement.
- C. **Samples:** Submit Samples for review of kind, color, pattern, and texture and for a comparison of these characteristics between submittal and actual component as delivered and installed. Include name of manufacturer and product name on label.
- D. **Qualification Data:** Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.
- E. **Product Certificates:** Prepare written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.
- F. **Design Data:** Provide products and systems complying with specific performance and design criteria indicated.
- G. **Manufacturer's Instructions:** Provide manufacturer's recommendations, guidelines and procedures for installing products. Include manufacturer's name and contact information.

SECTION 01300 - ADMINISTRATIVE REQUIREMENTS

PART 3 - EXECUTION

3.1 SUBMITTAL REVIEW

- A. Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.
- B. Submittals not required by the Contract Documents may not be reviewed and may be discarded.

END OF SECTION 01300

SECTION 01701 - EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 - GENERAL

1.1 CLOSEOUT PROCEDURES

- A. Substantial Completion: Before requesting Substantial Completion inspection, complete the following:
1. Prepare a list of items to be completed and corrected (punch list), the value of items on the list, and reasons why the Work is not complete.
 2. Deliver tools, spare parts, extra materials, and similar items.
 3. Make final changeover of permanent locks and deliver keys to Owner.
 4. Remove temporary facilities and controls.
 5. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.
 6. Complete final cleaning requirements, including touchup painting.
 7. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- B. Submit a written request for inspection for Substantial Completion. On receipt of request, Architect will proceed with inspection or advise Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will advise Contractor of items that must be completed or corrected before certificate will be issued.
- C. Request inspection for Final Completion, once the following are complete:
1. Submit a copy of Substantial Completion inspection list stating that each item has been completed or otherwise resolved for acceptance.
 2. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.
 3. Provide final notarized sales tax report.
 4. Provide final resolution of Allowances and Change Orders worksheet.
- D. Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
- E. Submit a written request for final inspection for acceptance. On receipt of request, Architect will proceed with inspection or advise Contractor of unfulfilled requirements. Architect will prepare final Certificate for Payment after inspection or will advise Contractor of items that must be completed or corrected before certificate will be issued.

SECTION 01701 - EXECUTION AND CLOSEOUT REQUIREMENTS

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance.
 - 1. Verify compatibility with and suitability of substrates.
 - 2. Examine roughing-in for mechanical and electrical systems.
 - 3. Examine walls, floors, and roofs for suitable conditions.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
- C. Take field measurements as required to fit the Work properly. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication.
- D. Verify space requirements and dimensions of items shown diagrammatically on Drawings.
- E. Surface and Substrate Preparation: Comply with manufacturer's written recommendations for preparation of substrates to receive subsequent work.

3.2 CONSTRUCTION LAYOUT AND FIELD ENGINEERING

- A. Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks.

3.3 INSTALLATION

- A. Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated. Make vertical work plumb and make horizontal work level.
 - 1. Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections to form hairline joints.
 - 2. Conceal pipes, ducts, and wiring in finished areas unless otherwise indicated.
 - 3. Maintain minimum headroom clearance of 8'-4" in occupied spaces.
- B. Comply with manufacturer's written instructions and recommendations.
- C. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- D. Use products, cleaners, and installation materials that are not considered hazardous.

SECTION 01701 - EXECUTION AND CLOSEOUT REQUIREMENTS

- E. Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place. Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed.

3.4 CUTTING AND PATCHING

- A. Provide temporary support of work to be cut. Do not cut structural members or operational elements without prior written approval of Architect.
- B. Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to minimize interruption to occupied areas.
- C. Patch with durable seams that are as invisible as possible. Provide materials and comply with installation requirements specified in other Sections.
 - 1. Restore exposed finishes of patched areas and extend finish restoration into adjoining construction in a manner that will minimize evidence of patching and refinishing.
 - 2. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.

3.5 CLEANING

- A. Clean Project site and work areas daily, including common areas. Dispose of materials lawfully.
 - 1. Remove liquid spills promptly.
 - 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
 - 3. Remove debris from concealed spaces before enclosing the space.
- B. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion:
 - 1. Remove labels that are not permanent.
 - 2. Clean transparent materials, including mirrors. Remove excess glazing compounds. Replace chipped or broken glass.
 - 3. Clean exposed finishes to a dust-free condition, free of stains, films, and foreign substances. Sweep concrete floors broom clean.
 - 4. Vacuum carpeted surfaces and wax resilient flooring.
 - 5. Wipe surfaces of mechanical and electrical equipment. Remove excess lubrication. Clean light fixtures, lamps, globes, and reflectors.
 - 6. Clean Project site, yard, and grounds, in areas disturbed by construction activities. Sweep paved areas; remove stains, spills, and foreign deposits. Rake grounds to a smooth, even-textured surface.

SECTION 01732 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Items indicated to be removed and salvaged remain Owner's property. Carefully detach from existing construction, in a manner to prevent damage, and deliver to Owner ready for reuse. Include fasteners or brackets needed for reattachment elsewhere.
- B. Comply with EPA regulations and hauling and disposal regulations of authorities having jurisdiction. Comply with ANSI A10.6 and NFPA 241.
- C. Predemolition Photographs: Show existing conditions of adjoining construction and site improvements, including finish surfaces. Submit before Work begins.
- D. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- E. Existing wall panels to be removed are known to be of asbestos containing material. Panels are to be removed by the contractor in compliance with requirements of local jurisdiction.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 DEMOLITION

- A. Requirements for Building Reuse:
 - 1. Maintain existing building structure (including structural floor and roof decking) and envelope (exterior skin and framing, excluding window assemblies and nonstructural roofing material) not indicated to be demolished; do not demolish such existing construction beyond indicated limits.
 - 2. Maintain existing interior nonstructural elements (interior walls, doors, floor coverings, and ceiling systems) not indicated to be demolished; do not demolish such existing construction beyond indicated limits.
- B. Maintain services/systems indicated to remain and protect them against damage during selective demolition operations. Before proceeding with demolition, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of the building.
- C. Locate, identify, shut off, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be selectively demolished.

SECTION 01732 - SELECTIVE DEMOLITION

- D. Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
- E. Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
- F. Provide temporary weather protection to prevent water leakage and damage to structure and interior areas.
- G. Protect walls, ceilings, floors, and other existing finish work that are to remain. Erect and maintain dustproof partitions. Cover and protect furniture, furnishings, and equipment that have not been removed.
- H. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction.
- I. Promptly remove demolition waste materials from Project site and legally dispose of them. Do not burn demolished materials.
- J. Clean adjacent structures and improvements of dust, dirt, and debris caused by demolition operations. Return adjacent areas to condition existing before demolition operations began.

END OF SECTION 01732

SECTION 07210 - BUILDING INSULATION

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submit Product Data for each type of insulation product specified.
- B. Surface-Burning Characteristics: ASTM E 84, flame-spread ratings of 75 or less and smoke-developed ratings of 450 or less.

PART 2 - PRODUCTS

2.1 INSULATION PRODUCTS

- A. Extruded-Polystyrene Board Insulation: ASTM C 578, Type IV.
- B. Polyisocyanurate Board Insulation: ASTM C 1289, Type I, Class 1 or 2, faced on both sides.

2.2 ACCESSORIES

- A. Fasteners: Types and sizes as recommended by building insulation manufacturer.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install insulation in areas and in thicknesses indicated. Cut and fit tightly around obstructions and fill voids with insulation.

END OF SECTION 07210

SECTION 07272 - FLUID-APPLIED MEMBRANE AIR BARRIERS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data.

1.2 PERFORMANCE REQUIREMENTS

- A. The building envelope shall be construction with a continuous, weather and air barrier to control moisture and air leakage into, and out of the conditions space.
- B. Joints, penetrations and paths of moisture and air infiltration shall be made watertight and airtight.
- C. System shall be capable of withstanding positive and negative combined wind and stack pressures on the envelope without damage or displacement.
- D. System shall be installed in an airtight and flexible manner, allowing for the relative movement of systems due to thermal and moisture variations.

1.3 QUALITY ASSURANCE

- A. Manufacturer qualifications: Weather and air barrier systems shall be manufactured and marketed by a firm with a minimum of five (5) years experience in the production and sales of weather and air barrier system. Manufacturers proposed for use, but not named in these specifications shall submit evidence of ability to meet all requirements specified, and include a list of projects of similar design and complexity completed within the past five years.
- B. Installer qualifications: The installer shall demonstrate qualifications to perform the work of this section by submitting the following:
 - 1. Verification that installer has been trained by and is approved to perform work as herein specified by weather and air barrier system manufacturer.
 - 2. List of at least three (3) projects completed within the past three (3) years of similar scope and complexity to this project carried out by the firm and site supervisor.
 - 3. Evidence of proper equipment and trained field personnel to successfully complete the project.

PART 2 - PRODUCTS

2.1 FLUID-APPLIED MEMBRANE AIR BARRIER

- A. Fluid-Applied, Vapor-Permeable Membrane Air Barrier: 98% solids, vapor permeable elastomeric, silyl-terminated polyether membrane with air permeance not greater than

SECTION 07272 - FLUID-APPLIED MEMBRANE AIR BARRIERS

0.004 cfm x sq. ft. at 1.57-lbf/sq. ft. pressure difference per ASTM E 2178 and water-vapor permeance not less than 12 perms per ASTM E 96.

1. Products:

- a. R-GUARD Cat 5 EXTREME Weather Air and Weather –Resistive Barrier (Waterproof) PROSOCO, Inc.
- b. Rub-R-Wall Airtight VP, Rubber Polymer Corporation (local installer, David Hyder (828) 779-0363.

2.2 ACCESSORIES

- A. Joint Reinforcing Strip: Air-barrier manufacturer's glass-fiber-mesh tape.
- B. Substrate Patching Material: Manufacturer's standard trowel-grade substrate filler.
- C. Other accessories as required by manufacturer for full weatherproof system installation.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Prepare and fill joints and cracks in substrate according to ASTM C 1193 and air-barrier manufacturer's written instructions.
- B. Install termination strips and auxiliary materials according to air-barrier manufacturer's written instructions to form a seal with adjacent construction and maintain a continuous air barrier. Install termination strips so that a minimum of 3 inches of coverage is achieved over both substrates.
- C. Fill gaps in perimeter frame surfaces of windows, curtain walls, storefronts, and doors, and miscellaneous penetrations of air-barrier membrane with foam sealant.
- D. Apply primer to substrates at required rate and allow to dry. Limit priming to areas that will be covered by air-barrier membrane in same day. Reprime areas exposed for more than 24 hours.
- E. Apply air-barrier membrane to form a seal with termination strips and to achieve a continuous air barrier according to air-barrier manufacturer's written instructions.

END OF SECTION 07272

SECTION 07412 – METAL WALL PANELS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data, Shop Drawings, and color Samples.
- B. Warranties: Provide manufacturer's standard written warranty, signed by manufacturer agreeing to promptly repair or replace metal wall panels that show evidence of deterioration of factory-applied finishes within 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 METAL WALL PANELS

- A. Products:
 - 1. MBCI (Basis for Design)
 - 2. McElroy
 - 3. American Metal Systems
- B. Wall Panel Type: Exposed-fastener, lap-seam metal wall panels.
 - 1. 7.2 Panel, MBCI
- C. Wall Panel Type: Factory-formed and –assembled metal wall panels.
- D. Metallic-Coated Steel Wall Panels: Fabricated from galvanized structural-steel sheet, ASTM A 653/A 653M, G90 or aluminum-zinc alloy-coated structural-steel sheet, ASTM A 792/A 792M, Class AZ50 coating designation, Grade 40.
 - 1. Nominal Metal Thickness: 26 gage.
 - 2. Finish: Manufacturer's standard two-coat fluoropolymer system with color coat containing not less than 70 percent PVDF resin by weight; complying with AAMA 621.
 - a. MBCI Signature 300
 - 3. Concealed Finish: Manufacturer's standard white or light-colored acrylic or polyester backer finish.
- E. Flashing and Trim: Formed from 24 ga nominal thickness, zinc-coated (galvanized) steel sheet or aluminum-zinc alloy-coated steel sheet. Provide flashing and trim as required to seal against weather and to provide finished appearance. Finish flashing and trim with same finish system as adjacent metal wall panels.

SECTION 07412 – METAL WALL PANELS

2.2 FASTENERS

- A. All self-tapping/self-drilling fasteners, bolts, nuts, self-locking rivets and other suitable fasteners shall be designed to withstand specified design loads.
 - 1. Use long life fasteners for all interior and exterior metal roof panel applications.
 - 2. Provide fasteners with factory applied coating in a color to match metal panel application.
 - 3. Provide neoprene washers under heads of exposed fasteners.
 - 4. Locate and space all exposed fasteners in a true vertical and horizontal alignment and in a pattern as recommended by panel manufacturer. Use proper torque settings to obtain controlled uniform compression for a positive seal without rupturing the neoprene washer.

2.3 ACCESSORIES

- A. Provide all components required per the metal panel manufacturer's approved shop drawings for a complete installation to include panels, fasteners, trim/flashing, fascias, ridge, closures, sealants, fillers and any other required items.
 - 1. All outside and inside closures will be fabricated from polyethylene laminated foam.
 - 2. All tape seal is to be a pressure sensitive 100 percent solids, polyisobutylene compound sealing tap with a release paper backing. Provide permanently elastic, non-sagging, non-toxic, non-staining tape seal approved by the metal panel system manufacturer.
- B. Sheet Metal Accessories: Fabricate flashing and trim to comply with recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to the design, dimensions, metal, and other characteristics of item indicated.

2.4 FABRICATION

- A. Material shall be in-line tension leveled prior to roll forming panel profile.
- B. Where possible, roll form panels in continuous lengths, full length of detailed runs.
- C. Standard panel length shall be no more than 45 feet long.
- D. Fabricate trim/flashing and accessories to detailed profiles.
- E. Fabricate trim/flashing from same gauge and color material as panels.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Anchor panels securely in place, with provisions for thermal and structural movement. Field cutting exterior panels by torch is not permitted. Install panels with concealed

SECTION 07412 – METAL WALL PANELS

fasteners unless otherwise indicated. Where exposed, use fasteners finished to match wall panels.

1. Steel Wall Panels: Use stainless-steel fasteners for surfaces exposed to the exterior and galvanized-steel fasteners for surfaces exposed to the interior.
 2. Aluminum Wall Panels: Use aluminum or stainless-steel fasteners for surfaces exposed to the exterior and aluminum or galvanized-steel fasteners for surfaces exposed to the interior.
- B. Install gaskets, joint fillers, and sealants where indicated and where required for weatherproof performance of wall panel assemblies. Provide types of gaskets, fillers, and sealants as indicated, or as recommended by panel manufacturer.
- C. Separate dissimilar metals and metal panels from contact with wood or cementitious materials, by painting each metal surface in area of contact with a bituminous coating or by other permanent separation.

END OF SECTION 07412