

# Addendum 01

DOCUMENT 00 9100

**DATE:** March 16, 2022

**PROJECT:** Seneca Parks Fruth Operations Building  
10130 OH State Route 18  
Fostoria, Ohio 44830

**PROJECT #:** 21095.00

**OWNER:** Seneca County Parks  
Contact: Sarah Betts  
3362 South TR 151  
Tiffin, Ohio 44883

**ARCHITECT:** Garmann Miller  
38 South Lincoln Drive  
P.O. Box 71  
Minster, Ohio 45865

**TO:** Prospective Bidders

This addendum form is a part of the Contract Documents and modifies the Bidding Documents dated March 3, 2022 with amendments and additions noted below.

Acknowledge receipt of this Addendum on the Bid Form. Failure to do so may disqualify the Bidder.

This addendum consists of 2 pages, 3 specification sections, 0 re-issued drawing sheets, and 0 exhibits.

## FOR INFORMATION ONLY

1. Pre-bid meeting minutes and the pre-bid meeting sign-in sheet are attached.

## CHANGES TO THE PROJECT MANUAL

1. Section 00 11 30 Abbreviated Scop of Work, replace section in entirety.
2. Section 07 42 13.13 Formed Metal Wall Panels, replace section in entirety.
3. Section 07 61 00 Sheet Metal Roofing, replace section in entirety.



## **ATTACHMENTS**

The following attachments are included and are part of this addendum:

Pre-bid meeting minutes and the pre-bid meeting sign-in sheet.

Specification Sections 00 11 30, 07 42 13.13 and 07 61 00.

**END OF ADDENDUM**





## Pre-bid meeting

|              |   |                  |                                  |
|--------------|---|------------------|----------------------------------|
| Project name | Seneca Parks<br>Fruth Operations Building | GM project no.   | 21095.00                         |
| Meeting date | Thursday March 10, 2022                   | Meeting location | Fruth Wetland<br>Nature Preserve |

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## Outline

1. Attendees: Sign in sheet
2. Introductions
3. **Project overview**

General Construction: New 73'x33' wood framed cold storage building with 14' ceiling height on 6" sealed concrete slab on grade. Building to be enclosed with exposed-fastener metal wall panels and to be insulated but not to receive any heating/cooling system. Interior wall finish to be metal liner panel. One hollow metal door and four overhead garage doors. Standing seam metal roof with concealed fasteners.

Site Work: Utilities to be verified with full land survey paid directly by owner. Site demo, prep and improvements associated with Operations Building scope. Drive North of building to be gravel.

Plumbing Work: No floor drains. One water hydrant inside the building.

HVAC Work: Building intake louver with backdraft damper and exhaust fan with backdraft damper.

Electrical Work: New 200A panelboard, LED lighting, receptacles, and minimal exterior lighting.

## 4. Bidding

- a. Online Bids will be received by the Seneca Parks via QuestCDN, [www.questCDN.com](http://www.questCDN.com), for the Seneca Parks Fruth Operations Building.
- b. Bid Date: 2:00.00 PM on Thursday, March 24, 2022
- c. Bids will read aloud at 2:00.00 PM on Thursday, March 24, 2022 via Teams Meeting at: Join via internet at 1:45pm: <https://bit.ly/3hdKw9L> or contact [eschmiesing@creategm.com](mailto:eschmiesing@creategm.com) for invite.
- d. Bid tabulation will be posted as quickly as possible after the 2:00.00 PM bid time via QuestCDN.
- e. Plans have been submitted to Hopewell Township for zoning review and Richland County for plan approval, costs paid by owner.

**5. Bid categories**

Lump Sum General Contract

- a. This project is a prevailing wage project. The wage rates can be found at this website: <https://www.com.ohio.gov/dico/wagehour.aspx>
- b. Contract A – General Construction
- c. General Contractor is responsible for securing necessary subcontractors
  - i. Estimate of Construction Work: \$175,000.00
    1. Contingency Allowance to be included in Bid: \$10,000.00

**6. No alternates**

**7. Plan Approval Status**

- a. Contract Documents have been submitted.
- b. Contract Documents have not been submitted for plumbing plan review.
  - i. All plumbing plan review costs will be incurred by the contractor per the specifications

**8. Schedule**

- a. Addendum #1 – March 16th
- b. Addendum #2 – March 21st
- c. Bid Opening – March 24th
- d. Start Date/Preconstruction meeting after notice of award – April 11th
- e. Completion – August 31st

**9. Contracts will be administered by Garmann Miller**

- a. All questions and correspondence to go through Garmann Miller
- b. All RFIs to go through Garmann Miller
- c. Pay applications to go to Garmann Miller
- d. Garmann Miller will schedule a preconstruction meeting with the contractor after the notice of award

**10. General conditions**

- a. Waste Removal: Each prime contractor
- b. General Contractor
  - i. Responsible for construction schedule and general supervision
  - ii. Submit preliminary schedule 10 days after notice to proceed
  - iii. Responsible for scheduling and administering job meetings; prepare agenda, responsible for meeting minutes and distributing copies
- c. Field office not required.
- d. Responsible for telephone service/fax to supervisor.
- e. Responsible for sanitary facilities



**11. Substitution request by 10 days prior to bid.**

**12. Correspondence**

- a. Correspondence to run through the Architect's office
  - i. Project Manager – Eric Schmiesing- [eschmiesing@creategm.com](mailto:eschmiesing@creategm.com)
  - ii. Architecture – Eric Schmiesing- [eschmiesing@creategm.com](mailto:eschmiesing@creategm.com)
  - i. Plumbing/HVAC – Rick Gilbert - [rgilbert@creategm.com](mailto:rgilbert@creategm.com)
  - ii. Electrical – Chad Schroer - [cschroer@creategm.com](mailto:cschroer@creategm.com)
  - iii. Construction Administrator – Rob Tangeman [rtangeman@garmannmiller.com](mailto:rtangeman@garmannmiller.com)
  - iv. Additional hard copies of drawings available from DC Reprographics.

**13. Question:** Clarify the 4" storm drain comment on sheet C1.1

- a. GM's response: We could not find any plans of the existing development. During our survey, we located the existing catch basin and it shows a 4" going east and west. Most likely this is an underdrain system that runs along the roadway to help drain the sub-base and the catch basin will pick up any surface water. Again, we are not 100% sure of the location and where it goes and ends.  
It is our intent to add a small yard drain in the grass area to help pick up any trapped water by the new construction. We are asking the contractor to investigate the exact location and connect the new yard drain to this 4" pipe. If they cannot find it, they should connect the new yard drain to the existing 4" in the catch basin using new 4" piping.



**Sign-in Sheet**

Project Name SANDCA PARKS FRUITH OPERATIONS BUILDING GM Project No. 21095.00  
Meeting Location FRUITH Meeting Date 3-10-22

Purpose

**Attendees**

|                          |                |                                    |       |                     |
|--------------------------|----------------|------------------------------------|-------|---------------------|
| <input type="checkbox"/> | Name           | <u>ERIC SCHMIESING</u>             | Phone | <u>419-307-0214</u> |
|                          | Business/Title | <u>PROJECT MANAGER / ARCHITECT</u> |       |                     |
|                          | Email          | <u>eschmiesing@creategm.com</u>    |       |                     |
| <input type="checkbox"/> | Name           | <u>Rich Southward</u>              | Phone | <u>419-727-0111</u> |
|                          | Business/Title | <u>Direct Services</u>             |       |                     |
|                          | Email          | <u>RSouthward@Direct.com</u>       |       |                     |
| <input type="checkbox"/> | Name           | <u>TJLY GRAVER</u>                 | Phone | <u>567-429-9291</u> |
|                          | Business/Title | <u>PM</u>                          |       |                     |
|                          | Email          | <u>tjgraver@helmsandsons.com</u>   |       |                     |
| <input type="checkbox"/> | Name           | <u>Tyler Rea</u>                   | Phone | <u>567-295-1682</u> |
|                          | Business/Title | <u>PM</u>                          |       |                     |
|                          | Email          | <u>trea@helmsandsons.com</u>       |       |                     |
| <input type="checkbox"/> | Name           |                                    | Phone |                     |
|                          | Business/Title |                                    |       |                     |
|                          | Email          |                                    |       |                     |
| <input type="checkbox"/> | Name           |                                    | Phone |                     |
|                          | Business/Title |                                    |       |                     |
|                          | Email          |                                    |       |                     |
| <input type="checkbox"/> | Name           |                                    | Phone |                     |
|                          | Business/Title |                                    |       |                     |
|                          | Email          |                                    |       |                     |
| <input type="checkbox"/> | Name           |                                    | Phone |                     |
|                          | Business/Title |                                    |       |                     |
|                          | Email          |                                    |       |                     |

## **SECTION 00 11 30 - ABBREVIATED SCOPE OF WORK**

**THE FOLLOWING IS AN ABBREVIATED SCOPE OF WORK INTENDED TO PROVIDE POTENTIAL BIDDERS WITH INFORMATION AS TO THE SIZE AND NATURE OF THE PROJECT. BIDDERS ARE TO REFER TO THE DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK.**

**Project: 21095.00 Seneca Parks Fruth Operations Building  
10130 OH State Route 18  
Fostoria, Ohio 44830**

**GM Project Number: 21095.00**

**Bid Date: 03-24-2022**

**Bid Categories: Lump Sum General Contract**

**Estimate of Construction Cost: \$175,000**

### **PROJECT SCOPES OF WORK**

**General Construction: New 73'x33' wood framed cold storage building with 14' ceiling height on 6" sealed concrete slab on grade. Building to be enclosed with exposed-fastener metal wall panels and to be insulated but not to receive any heating/cooling system. Interior wall finish to be metal liner panel. One hollow metal door and four overhead garage doors. Standing seam metal roofing.**

**Site Work: Utilities to be verified with full land survey paid directly by owner. Site demo, prep and improvements associated with Operations Building scope. Drive North of building to be gravel.**

**Plumbing Work: No floor drains. One water hydrant inside the building.**

**HVAC Work: Building intake louver with backdraft damper and exhaust fan with backdraft damper.**

**Electrical Work: New 200A panelboard, LED lighting, receptacles, and minimal exterior lighting.**

**END OF SECTION**



**SECTION 07 42 13.13  
FORMED METAL WALL PANELS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Manufactured metal panels for exterior wall panels, interior liner panels, soffit panels, and subgirt framing assembly, with related flashings and accessory components.

**1.02 RELATED REQUIREMENTS**

- A. Section 01 30 00 - Administrative Requirements
- B. Section 07 92 00 - Joint Sealants: Sealing joints between metal wall panel system and adjacent construction.

**1.03 REFERENCE STANDARDS**

- A. ASTM A792/A792M - Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process 2021a.
- B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials 2021a.

**1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate dimensions, layout, joints, construction details, and methods of anchorage.
- C. Shop Drawing: Sub framing system: Indicate dimensions, layout, construction details, method of anchorage
- D. Samples: Submit two samples of wall panel and soffit panel, 12 inch by 12 inch in size illustrating finish color, sheen, and texture.
- E. Manufacturer's Qualification Statement.

**1.05 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
- B. Manufacturer's Qualifications: Wall system manufacturer has been engaged in the fabrication of metal wall systems for at least ten years.
  - 1. The Manufacturer shall be a member of the Metal Building Manufacturer's Association (MBNA).
  - 2. The American Institute of Steel Construction (AISC) currently certifies the Manufacturer for Category MB.
  - 3. The Manufacturer maintains a certified installer program for its products and maintains an up to date authorized roofing contractor list.
  - 4. The Manufacturer has a written warranty covering durability, color and weather tightness of its roof system.
  - 5. Manufacturer shall produce the metal panels on fixed equipment operated by the manufacturer.
- C. Installer Qualifications: Company specializing in performing sheet metal installations with minimum 5 years of experience on projects of similar size and scope.
  - 1. Contractor shall follow the Manufacturer's installation details without exception unless written authorization from the manufacturer and architect are provided on an installation detail revision.

**1.06 PRE-INSTALLATION MEETING**

- A. Convene two weeks before starting work of this section.

**1.07 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver system components to the project site in Manufacturer's unopened original containers.

- B. Protect system components during shipment, storage, handling and erection from mechanical abuse, stains, discoloration and corrosion.
- C. Protect panels from accelerated weathering by removing or venting sheet plastic shipping wrap.
- D. Store prefinished material off the ground and protected from weather; prevent twisting, bending, or abrasion; provide ventilation; slope metal sheets to ensure proper drainage.
- E. Prevent contact with materials that may cause discoloration or staining of products.
- F. Damaged materials will be rejected and removed from the site.

## **1.08 WARRANTY**

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. General Warranty: The warranties specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents
- C. Finish Warranty: Furnish panel manufacturer's written warranty for twenty (20) years covering the finish of exposed coated metal surfaces against blistering, peeling, cracking, flaking, checking, chipping, rusting, and chalking and color change during the warranty period.
- D. Contractor Warranty: The contractor will guarantee, from the date of Substantial Completion, at his cost and expense make or cause to make such repairs to the wall panel system resulting from faults or defects in material or workmanship as necessary to maintain the wall panel system in a watertight condition. Guarantee shall include, but is not limited, panels, flashing, fasteners, trim flashings and joints.
  - 1. Warranty Period: 2 Years from the date of Substantial Completion
  - 2. Repairs required, either permanent or temporary, to the wall panel system or system flashing under this guarantee shall be made within 3 days after notice of the need for repair. Should the contractor fail to make such repairs within the time period, the Owner may have the repairs made and the cost paid by the Contractor.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Basis of Design: Ram Panel, manufactured by Ramco Metal Roofing & Buildings.
  - 1. Product: Ram Panel, vertical installation.
- B. Other Acceptable Manufacturers:
  - 1. DMI Dimensional Metals, Inc.
  - 2. Centria.
  - 3. MBCI.
  - 4. Petersen, Pac-Clad

### **2.02 MANUFACTURED METAL PANELS**

- A. Wall Panel System: Factory fabricated prefinished metal panel system, site assembled.
  - 1. Provide exterior wall panels, interior liner panels, soffit panels, and subgirt framing assembly.
  - 2. Design and size components to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of wall.
  - 3. Design Pressure: In accordance with applicable codes.
  - 4. Maximum Allowable Deflection of Panel:  $L/180$  for length(L) of span.
  - 5. Movement: Accommodate movement within system without damage to components or deterioration of seals, movement between system and perimeter components when subject to seasonal temperature cycling; dynamic loading and release of loads; and deflection of structural support framing.
  - 6. Drainage: Provide positive drainage to exterior for moisture entering or condensation occurring within panel system.

7. Fabrication: Formed true to shape, accurate in size, square, and free from distortion or defects; pieces of longest practical lengths.
  8. Corners: Factory-fabricated in one continuous piece with minimum 2 inch returns.
- B. Interior and Exterior Liner Panel:
1. Profile: Vertical; style as indicated.
    - a. 36 inch wide panel, 1 inch deep
  2. Material: Precoated steel sheet, 28 gage minimum thickness.
  3. Panel Width: 36 inches.
  4. Color: As selected by Architect from manufacturer's standard line.
    - a. Exterior Panel - Charcoal to match existing building
    - b. Interior Panel walls and ceiling - Ash Gray
- C. Soffit Panels:
1. Material: Precoated steel sheet, 28 gage minimum thickness.
  2. Color: As selected by Architect from manufacturer's standard line.
  3. Color: Charcoal.
- D. Internal and External Corners: Same material, thickness, and finish as exterior sheets; profile to suit system; shop cut and factory mitered to required angles.
- E. Expansion Joints: Same material, thickness and finish as exterior sheets; manufacturer's standard brake formed type, of profile to suit system.
- F. Trim: Same material, thickness and finish as exterior sheets; brake formed to required profiles.
- G. Anchors: Stainless steel.

## **2.03 MATERIALS**

- A. Precoated Steel Sheet: Aluminum-zinc alloy-coated steel sheet, ASTM A792/A792M, Commercial Steel (CS) or Forming Steel (FS), with AZ50/AZM150 coating; continuous-coil-coated on exposed surfaces with specified finish coating and on panel back with specified panel back coating.

## **2.04 ACCESSORIES**

- A. Sealants:
1. Exposed Sealant: Elastomeric; silicone, polyurethane, or silyl-terminated polyether/polyurethane.
  2. Concealed Sealant: Non-curing butyl sealant or tape sealant.
- B. Fasteners: Manufacturer's standard type to suit application; with soft neoprene washers, steel, hot dip galvanized. Fastener cap same color as exterior panel.
1. Metal-to-Metal Fasteners: Self-drilling, self-tapping screws.
- C. Field Touch-up Paint: As recommended by panel manufacturer.

## **2.05 FABRICATION**

- A. Form sections true to shape, accurate in size, square, and free from distortion or defects.
- B. Form pieces in longest practicable lengths.
- C. Fabricate corners in one continuous piece with minimum 18 inch returns.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that building framing members are ready to receive panels.

### **3.02 INSTALLATION**

- A. Install panels on walls in accordance with manufacturer's instructions.
- B. Protect surfaces in contact with cementitious materials and dissimilar metals with bituminous paint. Allow to dry prior to installation.
- C. Fasten panels to structural supports; aligned, level, and plumb.

- D. Locate joints over supports.
- E. Use concealed fasteners unless otherwise approved by Architect.
- F. Seal and place gaskets to prevent weather penetration. Maintain neat appearance.

**3.03 CLEANING**

- A. Remove site cuttings from finish surfaces.
- B. Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.

**END OF SECTION**

**SECTION 07 61 00  
SHEET METAL ROOFING**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Complete preformed, roof system, including all materials, associated flashings, trim, closures, fasteners, framing, supports, sealants and underlayment required.
- B. Counterflashings.
- C. Vapor Barrier
- D. Underlayment
- E. Eave Protection
- F. Integral fascias.
- G. Sealants for joints within sheet metal fabrications.

**1.02 RELATED REQUIREMENTS**

**1.03 ALTERNATIVES**

- A. See Section 01 2300 - Alternates, for product alternatives affecting this section.

**1.04 REFERENCE STANDARDS**

- A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2020.
- B. ASTM B32 - Standard Specification for Solder Metal 2020.
- C. ASTM C920 - Standard Specification for Elastomeric Joint Sealants 2018.
- D. ASTM E 1646 - Standard Specification for Water Infiltration.
- E. ASTM E 1680 - Standard Specification for Air Infiltration
- F. AISC Category MB Certification
- G. SMACNA (ASMM) - Architectural Sheet Metal Manual 2012.

**1.05 ADMINISTRATIVE REQUIREMENTS**

- A. Preinstallation Meeting: Convene two weeks before starting work of this section.

**1.06 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Engineered Drawings: Manufacturer of the roofing system, shall provide engineer stamped drawings certifying that the roof system is designed specifically for this project and will meet all State of Ohio Building Codes. Engineer shall be certified in the State of Ohio.
- C. Shop Drawings: Indicate material profile, jointing pattern, jointing details, fastening methods, flashings, terminations, and installation details.
- D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
- E. Manufacturer's Field Reports: Indicate procedures followed, ambient temperatures, humidity, wind velocity during application, and supplementary instructions given.
- F. Warranty: Submit manufacturer warranty and ensure forms have been completed in Seneca Parks's name and registered with manufacturer.
- G. Product Data: Provide data on metal types, finishes, characteristics .
  - 1. Flashing materials
  - 2. Insulation
  - 3. Fasteners
  - 4. Pre-manufactured pipe flashing
  - 5. Accessories
- H. Submit three samples illustrating metal finish color.

## 1.07 QUALITY ASSURANCE

- A. Perform work in accordance with SMACNA (ASMM) requirements and standard details, except as otherwise noted.
- B. Manufacturer's Qualifications: Roof system manufacturer has been engaged in the fabrication of metal roof systems for at least ten years.
  - 1. The Manufacturer shall be a member of the Metal Building Manufacturer's Association (MBNA).
  - 2. The American Institute of Steel Construction (AISC) currently certifies the Manufacturer for Category MB.
  - 3. The Manufacturer maintains a certified installer program for its products and maintains an up to date authorized roofing contractor list.
  - 4. The Manufacturer has a written warranty covering durability, color and weather tightness of its roof system.
  - 5. Manufacturer shall produce the metal roof panels on fixed equipment operated by the manufacturer. Portable roll forming shall not be permitted except for special applications and shall be licensed and operated by the Manufacturer in a permanent manufacturing facility.
  - 6. Manufacturing facilities shall be currently under inspection by Underwriters Laboratory personal to verify compliance that the products fabricated are in accordance with the specifications of the products which were originally tested
  - 7. Manufacturer's Field Services: Manufactures Technical Representative Inspection: Minimum of three visits to the jobsite to inspect and monitor the installation of the metal roof system. After each inspection provide the installer with a detailed written report communicating issues and progress of the roof inspection. All inspections must be performed by a technical field representative. A copy of the report shall be forwarded to the Architect for information purposes.
    - a. Should the roofing system not be approved by the manufacturer's technician, correcting the defective work shall be done by the contractor until the roofing system satisfactorily meets all the specifications and manufacturer's requirements.
- C. Installer Qualifications: Company specializing in performing sheet metal roof installations with minimum 10 years of experience on projects of similar size and scope.
  - 1. Roofing Contractor shall be certified by the Manufacturer to install Manufacturer's roof system.
  - 2. Roofing Contractor shall follow the Manufacturer's installation details without exception unless written authorization from the manufacturer and architect are provided on an installation detail revision.
  - 3. Roofing Contractor shall have no viable claims pending regarding negligent acts or defective workmanship on previously performed or current projects.
  - 4. Roofing Contractor shall have not filed for protection from creditors under any state or federal insolvency or debtor relief status or codes.
  - 5. Roofing Contractor shall execute 100% of the roof system installation, utilizing full time employees of the Roofing Contractor. Second and third tier sub-contractors for the installation work in this section are not permitted.

## 1.08 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roof system components to the project site in Manufacturer's unopened original containers.
- B. Protect roof system components during shipment, storage, handling and erection from mechanical abuse, stains, discoloration and corrosion.
- C. Provide strippable plastic film on all painted surfaces between contact areas to prevent abrasion during shipping, storage, and handling.
- D. Stack material to prevent twisting, bending, or abrasion, and to provide ventilation. Store materials off the ground, under protective cover. Slope metal sheets to ensure drainage.
- E. Prevent contact with materials that could cause discoloration or staining.

F. Damaged materials will be rejected and removed from the site.

## **1.09 WARRANTY**

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. General Warranty: The warranties specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents
- C. Finish Warranty: Furnish panel manufacturer's written warranty for twenty (20) years covering the finish of exposed coated metal surfaces including but not limited to roof panels, counterflashings, gutters, downspouts, fascias and trim flashings against blistering, peeling, cracking, flaking, checking, chipping, rusting, and chalking and color change during the warranty period.
- D. Roofing Contractor Warranty: The roofing contractor will guarantee, from the date of Substantial Completion, at his cost and expense make or cause to make such repairs to the roof resulting from faults or defects in material or workmanship as necessary to maintain the roof in a watertight condition. Guarantee shall include, but is not limited, roof panels, flashing, roof insulation, fasteners, valleys, fascia, gutters, downspouts, trim flashings and roof joints. (Copy of the Warranty is included at the end of this Section.)
  - 1. Guarantee shall include, but is not limited, roof membrane, flashing, roof insulation, fasteners, and roof expansion joints.
  - 2. Warranty Period: 2 Years from the date of Substantial Completion
  - 3. Repairs required, either permanent or temporary, to the roofing or roof flashing under this guarantee shall be made within 3 days after notice of the need for repair. Should the contractor fail to make such repairs within the time period, the Owner may have the repairs made and the cost paid by the Contractor.

## **PART 2 PRODUCTS**

### **2.01 GENERAL**

- A. Product Source:
  - 1. Single source responsibility for panel materials: Metal roof panels, wall panels, soffit panels and related metal components from a single manufacturer.

### **2.02 MANUFACTURERS**

- A. Ramco Metal Roofing & Buildings, 22822 Roemer Drive, Woodburn, In 46797
  - 1. Roof Panel: 7/8" Super-Loc Panel
  - 2. Color - Slate Gray
- B. Centria
  - 1. Roof Panel: SDP 200 Embossed with pencil ribs.
  - 2. Soffit: IW-14A Vented and Un-Vented
- C. Dimensional Metal Inc, 58 Kelma Drive, Reynoldsburg, Ohio 43068
  - 1. Roof Panel: Span-Lock SL2516
  - 2. Wall Panel: R Panel WPRP
  - 3. Soffit: VS-0512
- D. Peterson Pac-Clad
  - 1. Roof Panel: Snap-Clad Embossed with pencil ribs
  - 2. Soffit: Pac 750 Soffit series Vented and Un-Vented

### **2.03 ROOF SYSTEM**

- A. Roof panel 16 inch wide x 7/8 inch high standing seam with factory applied mastic (in female leg), striations (pencil ribs), embossed texture, concealed fastener, snap lock or mechanically seamed if necessary.
- B. Sheet Materials

1. Roof panels: 24 gauge (.027"), 50 ksi steel sheet Galvalume Aluminum-Zinc Alloy Coated Steel Grade C meeting ASTM A792
2. Panel continuous length without seam except where noted on the drawings.

#### 2.04 SOFFIT SYSTEM

- A. Soffit panel to be nominal 12 inches wide perforated to allow 7.5% free air with V groove in the middle, conceal fastener leg with concealed fasteners
- B. Sheet Materials: Soffit and related soffit flashing and trim metal
  1. Aluminum Sheet: ASTM B 209 (ASTM B 290M) 0.032 inch thick
  2. Panel continuous length.
  3. Texture: Embossed and striated
  4. Finish: Premium fluorocarbon coating - Kynar 500 or Hylar 5000

#### 2.05 ACCESSORIES

- A. General: Provide trim/flashing, fascias, ridge, valley, closures, gutters, gutter hangers and other related required items to provide a complete system
- B. Clip: One piece floating clip with 3 1/2" x 6" x 18 ga. bearing plates screwed into metal deck at 36 inches on center of per roof manufacturer's requirements.
- C. Fasteners:
  1. Use long life fasteners for all interior and exterior applications
  2. Provide fasteners with a factory applied coating in a color to match metal roof system.
  3. Provide neoprene washers under heads of exposed fasteners.
- D. Fascia:
  1. Formed to size and configuration as indicated on drawings.
  2. Fascia shall be 20 gauge or heavier and same finish as roof panel.
- E. Vapor Barrier:
  1. ASTM C 1136-06
  2. Maximum permeance rating of 0.13 perm.
  3. Manufacturers:
    - a. Griffolyn Type-65; Reef Industries, Houston, Texas
    - b. DURA-SKRIM 6WW; Raven Industries, Sioux Falls, South Dakota
    - c. WMP-VR; Lamtec Corporation, Mount Bethel, Pennsylvania
- F. Vented Soffit Trim:
  1. Color: Surfaces exposed to view to match the color of the soffit.
- G. Fasteners: Galvanized steel, with soft neoprene washers.
- H. Protective Backing Paint: Zinc molybdate alkyd.
- I. Sealant to be Concealed in Completed Work: Non-curing butyl sealant.
- J. Sealant to be Exposed in Completed Work: {rs#1} elastomeric sealant, 100 percent silicone with minimum movement capability of plus/minus 25 percent and recommended by manufacturer for substrates to be sealed; clear.
- K. Underlayment (Eave Protection Sheet): Rubberized asphalt bonded to sheet polyethylene, 40 mil total thickness, with strippable treated release paper.
  1. Thermal Stability: Stable after testing at 240 deg F; ASTM D 1970.
  2. Low-Temperature Flexibility: Passes after testing at minus 20 deg F; ASTM D 1970.
  3. Manufacturer:
    - a. W.R. Grace Construction Products, Ultra
    - b. Protecto Wrap, Safe Seal 6640
    - c. Dimensional Metal Inc, Dynaclad Ultra HT
    - d. Substitutions: See Section 01 6000 - Products Requirements
- L. Solder: {rs#1}; Sn50 (50/50) type.



## **PART 3 EXECUTION**

### **3.01 GENERAL REQUIREMENTS:**

- A. Install roofing and flashing in accordance with approved shop drawings and manufacturer's product data, within specified tolerances.
- B. Isolate dissimilar metals, masonry and concrete from metal roof system with bituminous coating.
- C. Anchorage shall allow for thermal expansion and contraction without stress or elongation of panels, clips or anchors.
- D. Coordinate flashing and sheet metal work to provide watertight conditions at roof terminations. Fabricate and install in accordance with standards set forth in the SMACNA Manual using continuous cleats at all exposed edges.

### **3.02 EXAMINATION**

- A. Inspect roof deck to verify deck is clean and smooth, free of depressions, waves, or projections, properly sloped to drains.
- B. Verify deck is dry and free of snow or ice.
- C. Verify correct placement of wood nailers and insulation positioning between nailers.
- D. Verify roof openings, curbs, pipes, sleeves, ducts, or vents through roof are solidly set, reglets are in place, and nailing strips located.
- E. Verify roofing termination and base flashings are in place, sealed, and secure.

### **3.03 PREPARATION**

- A. Install starter and edge strips, and cleats before starting installation.
- B. Install surface mounted reglets true to lines and levels; seal top of reglets with sealant.
- C. Back paint concealed metal surfaces and surfaces in contact with dissimilar metals with protective backing paint to a minimum dry film thickness of 15 mil.
- D. Place eave edge and gable edge metal flashings tight with fascia boards. Weather lap joints 2 inches and seal with plastic cement. Secure flange with nails spaced 16 inches OC.

### **3.04 INSTALLATION - ROOFING**

- A. Apply underlayment over entire roof area.
  - 1. Apply in single layer laid perpendicular to slope; weather lap edges 4 inches
- B. Install metal roof system in accordance to manufacturer's instructions and shop drawings.
  - 1. Install metal roof system so that it is weather tight, without waves, warps, buckles, fastening stresses or distortion, allowing for expansion and contraction.
  - 2. Provide concealed anchors at all panel attachment locations
  - 3. Install panels plumb, level and straight with seams and parallel, conforming to design indicated.

### **3.05 INSTALLATION - FLASHINGS**

- A. Install flashings, including laps, splices, joints, bonding, adhesion, and attachment, as required by roof panel manufacturer's recommendations and details.
- B. Comply with SMACNA (ASMM)
- C. Insert flashings into reglets to form tight fit.
  - 1. Seal flashings into reglets with sealant.
- D. Secure flashings in place using concealed fasteners, and use exposed fasteners only where permitted.
- E. Cleat and seam all joints.
- F. Apply plastic cement compound between metal flashings and felt flashings.

- G. Fit flashings tight in place, and make corners square, surfaces true and straight in planes, and lines accurate to profiles.
- H. Seal metal joints watertight.

### **3.06 INSTALLATION - SOFFIT**

- A. Inspect soffit framing to verify the framing is smooth, free of waves and projections.
- B. Verify soffit openings, lights, louvers and other recessed equipment are in place.
- C. Install starter, edge strips and molds around perimeter before starting installation.
- D. Start panel installation at one end and continue to the other end of soffit.
- E. Push panel into adjacent panel and fasten through the flange at 24 inches on center (maximum)
- F. Panels to be installed perpendicular to the exterior building wall
- G. Align panel joints at intersections.

### **3.07 FIELD QUALITY CONTROL**

- A. See Section 01 4000 - Quality Requirements, for general requirements for field quality control and inspection.
- B. Inspection: Roofing manufacturer's technical representative and roofing contractor shall conduct all required inspections. Submit all required drawings, details, and completed questionnaires to the roofing manufacturer before obtaining the specified warranty. After an authorized Technical Representative has inspected the roof for determining acceptability for warranty issuance, any deficiencies on the final inspection report shall be corrected by the contractor/applicator and made ready for reinspection within five (5) working days.
- C. Warranty: Upon receipt of required materials, certifying inspection, and acceptance of the roofing system by the roofing manufacturer, the warranty shall be duly executed and issued to the Owner. Date of Warranty will be the date of Substantial Completion.

### **3.08 PROTECTION**

- A. Do not permit traffic over unprotected roof surface.

**END OF SECTION**