



Goodwyn Mills Cawood
11 North Water Street
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T 251.460.4006
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FASCIMILE TRANSMITTAL COVER SHEET

DATE: March 20, 2024

TO: Doris Furr

FROM: Planholder

PROJECT: INDIAN SPRINGS ELEMENTARY SCHOOL CANOPY
For MOBILE COUNTY PUBLIC SCHOOL SYSTEM
GMC PROJECT NO. AMOB230140

RE: ADDENDUM NO. 1 AND ACKNOWLEDGEMENT OF RECEIPT OF ADDENDUM NO. 1

ACKNOWLEDGEMENT OF RECEIPT:

PLEASE PRINT RECIPIENT'S NAME, FIRM, AND DATE RECEIVED.

THEN FAX BACK TO (251) 460-4423 or EMAIL doris.furr@gmcnetwork.com
FOR OUR RECORDS AND TO ACKNOWLEDGE YOUR RECEIPT OF THIS ADDENDUM.

NAME (PLEASE PRINT)

FIRM (PLEASE PRINT)

DATE RECEIVED (PLEASE PRINT)

ADDENDUM NUMBER 1

March 20, 2024

**PROJECT: INDIAN SPRINGS ELEMENTARY SCHOOL CANOPY
FOR MOBILE COUNTY PUBLIC SCHOOL SYSTEM
GMC PROJECT NO. AMOB230140**

AD1-1 CLARIFICATIONS / RFI'S / RESPONSES:

- A. Bidders shall acknowledge receipt of the Addendum in writing, as provided on the Acknowledgment Receipt.
- B. A copy of the pre-bid meeting minutes as well as the sign in sheet are attached.
- C. Replace Section 10 5300 Walkway Canopies with Revised Section 10 5300 Walkway Canopies. Section 2.1 Manufacturer's has been revised to include Item 10.

AD1-2 ISSUED SPECIFICATIONS:

- A. Section 10 5300 Walkway Canopies

AD1-3 ISSUED DRAWINGS:

- A. None

AD1-4 ATTACHMENTS:

- A. Addendum Acknowledgment Response
- B. Pre-Bid Meeting Minutes and Sign In Sheet
- C. Section 10 5300 Walkway Canopies

-END OF ADDENDUM-

PREPARED BY



Goodwyn Mills
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**PRE-BID CONFERENCE AGENDA
INDIAN SPRINGS ELEMENTARY SCHOOL CANOPY
FOR THE MOBILE COUNTY PUBLIC SCHOOL SYSTEM
GMC PROJECT NO. AMOB230140
Tuesday, March 19, 2024**

Note: *This Agenda is complimentary, for general use as an outline and for discussion during this meeting. Any errors, omissions, or clarifications shall be communicated to the Architect for distribution. This Agenda does not attempt to be, nor represent, any recapitulation of Project requirements, and does not change or alter same in any respect; Changes, if any, will only be made by written Addendum.*

Introductions and opening remarks and reminder to sign-in on sheet being circulated.

1. Names and relationship to Project of local Owner personnel:

- Owner - Mobile County Public School System
- Owner's Representatives:
 - i. Mike Griswold, Facilities Division
 - ii. Robert Kimbrough, Jr., Facilities Division

2. Names of Architect personnel involved – Goodwyn, Mills and Cawood, Inc.

- Project Architect/Manager – Chris Lunsford, AIA
- Administrative Assistant – Doris Furr

3. Bid Time, Date, Place – indicated in Advertisement for Bids:

- Bids will be received and clocked in at 10:00 a.m. local time on Tuesday, March 26, 2024, at the Facilities Conference Room, Building F, 1 Magnum Pass, Mobile, Alabama 36618.
- Contractor's responsibility to make sure Bid is received prior to bid time or they will not be accepted.

4. General Contractor's State Licensing Requirements/ Qualifications:

- When the amount bid for a contract exceeds \$50,000, the bidder must be licensed by the State of Alabama Licensing Board for General Contractors and must show the Architect evidence of license before bidding or the bid will not be received by the Architect or considered by the Awarding Authority.
- Demolition Subcontractor shall have no less than 5-years verifiable commercial experience in their trade and no less than 5-years verifiable commercial experience in their business enterprise contracting for work under this project.
- Demolition Subcontractor shall have completed no less than 5 verifiable commercial projects of similar scope, extent and dollar value during the last 3 years.
- Failure to comply with these requirements may result in rejection of non-compliant bids.

5. Bid Preparation / Bid Guaranty / Delivery of Bids:

- Bids shall be prepared pursuant to the Contract Documents, including but not limited to Bidding Requirements, Contract Forms, General Conditions, Special Conditions, Technical Specifications, Construction Drawings, and all Addendums.
- ALL information requested of the bidder on the Proposal form, must be filled in. The form must be completed by typewriter or hand-printed ink.
- No alterations shall be made to bid proposal unless modified by Addendum.
- Bids must be submitted on the Proposal Form as contained in the Bid Documents; only one copy is required to be submitted.
- Where indicated by the format of the Proposal Form, the bidder must specify lump sum prices in both words and figures. In case of discrepancy between the prices shown in words and in figures, the words shall govern.
- The Proposal Form must be accompanied by a cashier's check, or a Bid Bond.
 - Bid Bond is required if Bid is over 50,000.
- If a Bid Bond is provided, the bond shall be on the Bid Bond form as stipulated in the Bid Documents; executed by a surety company duly authorized and qualified to make such bonds in the State of Alabama, payable to the Mobile County Public School System.
- Cashier's check must be drawn on an Alabama bank, 5% of bid amount, not to exceed \$10,000.
- Each bid shall be placed together with the Bid Guaranty and Disclosure Statement in a sealed envelope. On the outside of the envelope the bidder shall write in large letters "Proposal", below which the bidder shall identify the Project and the Work bid on, the name of the bidder, and the bidder's current general contractor's state license number.
- Bids may be delivered in person or by mail if ample time is allowed for delivery. When sent by mail, the sealed envelope containing the bid shall be enclosed in another envelope for mailing.

Mail Bids To:

Board of School Commissioners of Mobile County - Facilities Division
1 Magnum Pass, Building F
Mobile, AL 36618

- A bid which has been sealed in its delivery envelope may be revised by writing the change in price on the outside of the delivery envelope over the signature and date of the bidder or the bidder's "authorized representative". Authorized Representative is defined as a person to whom the bidder has granted written authority to conduct business in the bidder's behalf by signing and/or modifying the bid. Such written authority shall be signed by the bidder and shall be attached to the Proposal Form.
- A bid that is not accompanied by data required by the Bid Documents, or a bid which is in any way incomplete, may be rejected. Any bid which contains any un-initialed alterations or erasures, or any bid which contains any additions, alternate bids, or conditions not called for, or any other irregularities of any kind, will be subject to rejection.
- MCPSS Bid Proposal Required Documentation. The documents listed below are required to be submitted with bid proposals. Any missing documentation will render the bid unresponsive and unacceptable:
 - Delivery Envelope with Company Name, Project Name, License Number, and any Envelope Adjustments
 - Proposal DCM Form C-3 - Missing information will render bid unresponsive

- Attachment A - Unit Prices
- Attachment B - Accounting of Sales Tax
- Bid Security
- State of Alabama Disclosure Statement
- Vendor Minority Questionnaire
- Covenant Against Contingency Fees
- State of Alabama General Contractors License
- List of Subcontractors and Suppliers (if not included in bid proposal, it must be turned in within 24 hrs of the bid)

All other required documentation must be turned in with the Construction Contract.

6. Performance and Payment Bonds:

- As per Requirements of Project Manual
 - P&P bonds are required if Bid is over \$50,000.

7. Sales, Use, and Severance Tax Savings:

- Tax Exempt Project Per State of Alabama Requirements.
- Accounting of Sales Tax (Attachment to DCM Form C-3) – Shall be included with the Proposal Form.
- Sales tax is not to be included in the proposal price but must be included on the form noted above that is included in the project manual / it must be submitted with the bid.

8. Addenda:

- Addendum No. 1 will include minutes of this Pre-Bid Meeting, the sign in sheet, and any pertinent items discussed.
- Any further addenda necessary after the Pre-Bid Meeting will be issued to all General Contractors which have picked up a set of contract documents.

9. Project NTP/Mobilization:

- The Official Notice to Proceed will be issued with the fully executed Contract.
- Once bids are received, then sent to- and- approved by the board, contracts and tax exempt (at same time) will be provided.
- **NO WORK SHALL BEGIN ON PROJECT UNTIL INSURANCE CERTIFICATES ARE RECEIVED AND APPROVED BY MOBILE COUNTY PUBLIC SCHOOL SYSTEM.**

10. Project Observation & Site Visits:

- Conducted bi-weekly or as needed by the progress of construction.

11. Safety:

- The Contractor shall be responsible for all project safety. Neither the Architect, nor the Owner will be responsible for the Contractor's safety precautions, means, methods, techniques, sequences, or procedures. Contractor's personnel responsible for safety shall be OSHA certified.
- Safety fencing for project, including equipment and storage areas, shall be part of contractors means, methods, techniques, sequences, procedures; cost of any type fencing, barricades, construction tunnels, etc. necessary shall be incidental to project.

12. Existing Conditions / Constraints:

- As per Contract Documents.

13. Traffic Control / Contractor Parking:

- Coordinate all construction activities including contractor parking and construction staging with facilities.
- Particular attention also paid to pedestrian traffic and routing of such during project.
- Notification to Emergency Vehicles (Police, Fire, Rescue, Ambulance, etc.) shall be contractor's responsibility.

14. Child Labor Law:

- All Contractors shall adhere to the federal child labor provisions, authorized by the Fair Labor Standards Act (FLSA) of 1938, also known as the child labor laws.

15. Meetings & Inspections:

- **Pre-Construction** - will be scheduled once a low bidder is determined and project is awarded. Attended by DCM Inspector.
- **Owner / Architect / Contractor (OAC)** progress meeting to be held per project requirements and biweekly.
- **Other** – Pre-installation meetings per project specifications for the proper coordination and execution of the Work.
- **Additional DCM mandatory inspections that will be attended by the DCM inspector** – ‘Above the Ceiling(s)’ / Substantial Completion(s).

16. Explanations and Interpretations:

- Every General Contractor and every Subcontractor should read and be familiar with all of the “front-end” documents and all of Division 1 of the Project Manual, in addition to the work they are bidding and have to coordinate with.
- Before submitting a bid for the Work, the bidders shall carefully examine the Bid Documents, visit the site, and satisfy themselves as to the nature and location of the Work, and the general and local conditions, including weather, the general character of the site or building, the character and extent of existing work within or adjacent to the site and any other work being performed thereon at the time of submission of their bids.
- The Contract Documents shall be interpreted collectively, each part complementing the others and consistent with the Intent of the Contract Documents.
- If there is a conflict, discrepancy, or confusion between the plans and specifications for work, materials or equipment and the Contractor does not receive written clarification from the Architect or Engineer prior to the opening of bids the Contractor shall include the better quality or greater quantity of Work in his/her bid.
- Written formal questions regarding the work shall be directed to the Architect in the form of an (RFI), Request for Information. All RFI's are to be sent to the architect (Chris Lunsford chris.lunsford@gmcnetwork.com) with copies to Doris Furr doris.furr@gmcnetwork.com.
- Communications by and with the Architect's consultants shall be through the Architect ONLY.

- Questions and clarification from prospective bidders will be made only by written Addenda sent to all prospective bidders. Questions and clarifications must be submitted in writing a minimum of 72 hours prior to bid.
- When the Bid Documents identify three or more sources and the list of sources is not followed by “or approved equal” or similar wording, the bidder’s proposal shall be based upon one of the identified sources, unless the bidder obtains “Pre-bid Approval” of another source. Acceptance of additional suppliers, manufacturers, and/or products in such instances shall be limited to those named, unless others are properly submitted at least 7-days prior to the Bid Date and subsequently accepted. Contractor should review the Contract Documents for proper submittal for consideration and review for pre-approvals.
- Acceptance will only be acknowledged by Addendum
- Submittals during construction other than those pre-qualified or pre-accepted will not be reviewed, but instead, returned for re-submittal, without exception.
- Each Bidder shall determine the number of sets of Contract Documents required for the construction of the specified work.
- Proposals may be rejected if they contain any omissions, alterations of forms, additions not called for, conditional bids, alternate bids unless called for, incomplete bids, erasures, or irregularities of any kind.

17. Insurance Requirements:

- State Building Commission Insurance requirements are included in the Project Manual in GENERAL CONDITIONS OF THE CONTRACT (DCM FORM C-8) – ARTICLE 37 & SUPPLEMENT TO THE GENERAL CONDITIONS OF THE CONTRACT (DCM FORM C-8 SUPPLEMENT) and should be provided to each General Contractor’s and Subcontractor’s insurance carrier for review. Additional requirements are indicated in Section 01015 - SPECIAL CONDITIONS and should also be carefully reviewed and also sent to insurance carriers for review.

PROJECT SPECIFIC REQUIREMENTS

18. Unit Prices (Specification Section 01220 for additional information):

- See Construction Documents, Description of Unit Prices, and ATTACHMENT A TO PROPOSAL FORM STATING UNIT PRICES.
- Unit prices shall include all charges for labor and materials, fee, layout, supervision (field and office), general expenses, taxes, insurance, overhead and profit, for Unit Item of Work in place and complete.
- Bidders are requested to bid on all Unit Price Items indicated. Where a Unit Price does not involve a change in price, insert the words “No Change.” Bidders not desiring to bid a certain Unit Price should so indicate by the words “No Bid”. Bidders failing to bid all Unit Prices risk disqualification of their bid.
- Submit Unit Prices with the Proposal Form on Bid Date. If any are so determined, they will be added via addenda (currently there are ~~not~~ unit prices in the project).

19. List of Subcontractors and Suppliers:

- Each bid shall have attached a list of major subcontractors and suppliers proposed for the principal parts of the work which is to be turned in with a copy of the Proposal Form on Bid Date, or at Contractor’s option, turned in to the Owner within 24-hours after receipt of Bids, with a copy

to the Architect. Bidders failing to submit such list, as indicted, will be considered non-responsive and will be rejected; Bidder failing to submit a complete list may be rejected.

- Subcontractors listed and thereafter approved may not be changed without prior approval of the Owner and Architect.

20. Modification and Withdrawal:

- After the bid opening, bids may be withdrawn or modified only after the expiration of sixty (60) days.

21. Warranty:

- General Contractor one (1) year warranty for general construction
- Manufacturer's standard warranty per project specifications.

22. Permits, Licenses and Fees:

- The Contractor is responsible for all permits, including the DCM permit fee (worksheet in contract documents) and all fees necessary for proper and legal completion of the Work.

23. Supervision:

- General Contractor shall provide a **FULL-TIME** Project Manager / Superintendent for the duration of the Contract; the Project Manager/Superintendent shall have minimum of 10 years' experience specific to the work in this scope. Project and Owner references shall be provided prior to preconstruction meeting. Refer to General and Special Conditions for additional information and requirements, and minimum experience requirements.

24. Completion Time for Project:

- Base Bid Completion Time: **150 calendar days** to substantial completion from date of Official Notice to Proceed
-

25. Detailed Construction Schedule/Extensions of Time Due to Weather:

- At the time the Contractor receives the signed Contract and the Notice to Proceed, he shall submit a Schedule of Work Progress to the Design Consultant which reflects the amount of time required for the Work and the deadline by which it can be expected to be completed. The Schedule must accurately reflect the date for Substantial Completion, and take into consideration any reasonable contingencies.
- The unusually severe weather must exceed the average number of days per month for the five (5) previous years. Rainfall amounts must exceed two-tenths of an inch (0.20") during the twenty-four hour period in order to be considered a Rain Day for purposes of determining the number of actual rain days per month. Additional rain days over the average will be reviewed by the Architect. For further requirements see Special Conditions (to DCM Form C-8 August 2001, General Conditions).

26. Liquidated Damages:

- Per General & Special Conditions of the Contract

27. Goodwyn Mills Cawood, LLC (Project Architect)

11 North Water Street, Suite 15250, Battle House Tower, Mobile, AL 36602

Phone: (251) 460-4006, Fax (251) 460-4423.

chris.lunsford@gmcnetwork.com

doris.furr@gmcnetwork.com

28. OWNER COMMENTS:

- Testing currently ongoing (coordinate with Robert for access to the building). At times of testing during construction, arrangements will need to be made to mitigate noise from construction activities.

29. GC QUESTIONS / COMMENTS:

- 5 months duration...
 - Not limited to summer work only ... Question / comment was from YBC
 - Re-routing of students around construction activities may be required ... Question was from YBC
 - Traffic / routing will also need to be coordinated during the summer months ... Question was from JNB

END OF MEETING

SECTION 10 5300

WALKWAY CANOPIES

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.
- B. Related work specified elsewhere includes:
 - 1. Section 06 1000 - "Rough Carpentry"
 - 2. Section 07 6200 - "Flashing and Sheet Metal"
 - 3. Section 07 9200 - "Joint Sealers"

1.2 SUMMARY:

- A. This Section includes prefinished, preformed, extruded aluminum, manufactured walkway assemblies and all related work, as indicated on the Drawings and including in part, the following:
 - 1. Water-tight canopy system, including in part, prefinished, extruded aluminum columns, support system, combination structural fascia/gutter system, with integral internal drainage, extruded aluminum roof deck, vertical closures between columns at canopy steps, related flashings and trim, accessories, and all related work.
- B. Scope: The work in the Section includes all labor, materials, accessories, services and incidentals necessary for designing, supplying, installing and testing of the metal roofing, drainage, and systems described herein. Provide all flashing, fascia, caps, closures, trim, etc., which are associated with and/or come in contact with walkway canopy systems, in same metal and finish as roofing panels where exposed and where concealed, and make watertight junctions with work of other trades.
 - 1. Finish for concealed sides of all metal shall be manufacturer's standard color baked enamel, in color selected by Architect after bidding.

1.3 SYSTEM PERFORMANCE REQUIREMENTS:

- A. Provide certified test results by a recognized testing laboratory or agency in accordance with specified test methods for each system, upon request.

- B. Water Penetration: Provide roof and similar wall panel systems with no water penetration as defined in the test method, when tested in accordance with ASTM E 331 at a static air pressure differential of not less than 6.24 psf and not more than 12.0 psf.
- C. Structural Performance: Manufacturer shall design and supply extruded walkway canopies to withstand severe icing, heavy hail, and project site design wind loads required by applicable building codes and regulations.

1.4 SUBMITTALS:

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.
- B. Product data including manufacturer's complete and current product specifications, standard details, certified product test results, installation instructions, and general recommendations, as applicable to materials and finishes for each component and for total walkway canopy system.
- C. Samples for Verification Purposes of Roof Panels, Vertical Panels and Trim, and Fascia/Gutter Sections.
 - 1. Provide sample panels 12-inches long by actual panel width, in the profile, style, color, and texture indicated. Include clips, battens, fasteners, closures, and other panel accessories.
- D. Shop Drawings showing layouts of structural support system and canopy system, roof and vertical panels, details of edge conditions, joints, corners, panel profiles, miscellaneous supports, anchorages, trim, flashings, closures, and special details. Distinguish between factory and field assembly work. The manufacturer's design Structural Engineer and technical engineering department shall approve the drawings before they are submitted.
 - 1. Shop Drawings shall be certified by manufacturer's Structural Engineer and bear his/her current, signed and dated Alabama registration seal.

1.5 QUALITY ASSURANCE:

- A. Wind Uplift: Provide roof and vertical panel systems including supports meeting requirements of Underwriters Laboratories, Inc. for at least Class 90 wind uplift resistance.
 - 1. Minimum Code Wind Load at Site: **140 mph**, unless higher wind load is indicated on Structural Drawings or required by applicable Codes.

- B. Field Measurements: Where possible, prior to fabrication of walkway canopy system and panels, take field measurements of structure or substrates to receive panel system. Allow for trimming panel units where final dimensions cannot be established prior to fabrication.

1.6 DELIVERY, STORAGE, AND HANDLING:

- A. Deliver panels and other components so they will not be damaged or deformed. Package extruded components, vertical and roof panels for protection against transportation damage.
- B. Handling: Exercise care in unloading, storing, and erecting support system, panels and other system components to prevent bending, warping, twisting, and surface damage.
- C. Stack materials on platforms or pallets, covered with tarpaulins or other suitable weathertight ventilated covering. Store metal panels so that they will not accumulate water. Do not store panels or other system components in contact with other materials that might cause staining, denting, or other surface damage.
- D. Deliver accessories, such as reglets, inserts, etc., which are to be installed by other trades and/or in conjunction with the work of other trades, far enough in advance so as not to delay the Work on the project.
- E. Refer to Division 1 Sections “Summary of Work” and “Special Conditions” for additional information and requirements regarding stored materials.

1.7 WARRANTIES:

- A. Warranty: The manufacturer and installer shall jointly and severably, in writing, warrant that the walkway canopy system shall remain intact (without perceptible deformation) and completely leak free for a period of **5-years** from the date of acceptance of the project (this warranty need not cover damage from winds exceeding the velocities and/or loading required by the Standard Building Code as generated by a design velocity based on the 100-year probability wind speed).
 - 1. Repairs that become necessary, such as for leaks, wind damage or temperature stress while walkway canopy system is under warranty, shall be performed by the installer or manufacturer within 7-days of notification. Should for any reason, the installer not be able to perform the repairs, it shall be incumbent upon the manufacturer to do so. If repairs are not begun on time, Owner shall have work done by others and costs will be charged to the Contractor, with no detrimental effect or cancellation of the warranty resulting from same.

- B. This warranty shall be in addition to, shall be in effect simultaneously with, and shall not alter other required project or product warranties or guarantees, and shall not limit other remedies available to the Owner.

1.8 PROJECT CONDITIONS:

- A. Weather: Proceed with walkway canopy system work when existing and forecasted weather conditions permit work to be performed in accordance with manufacturers' current written instructions, recommendations and warranty requirements.
- B. Substrate Conditions: Do not begin roofing or vertical panel installation until substrates have been inspected and are determined to be in satisfactory condition.

PART 2 - PRODUCTS

2.1 MANUFACTURERS:

- A. Manufacturer: Subject to compliance with requirements, provide products of one of the following, equivalent in quality and design as "Basis of Design" prefinished, extruded aluminum canopy system:
 - 1. American Walkway Covers, LLC
 - 2. Mapes Industries, Inc.
 - 3. Mason
 - 4. Peachtree Protective Covers, Inc.
 - 5. Polyvision Corporation
 - 6. Superior Metal Products Co.
 - 7. Tennessee Valley Metals, Inc. (Basis of Design, and quality standard)
 - 8. Texas Aluminum Industries, Inc.
 - 9. Vulcan Materials Corp.
 - 10. or Equal to BOD
- B. Product/Manufacturer: Subject to compliance with requirements, provide water-tight walkway canopy system and all related components equivalent to standard extruded products/systems as manufactured by Tennessee Valley Metals, Inc.; Birmingham, Alabama; Phone: 1-800-551-2579 or (205) 853-1125, by one of the above named manufacturers, or other pre-approved manufacturer - properly submitted at least ten (10) days prior to original bid date in accordance with requirements of Section 01015 - "Special Conditions," and subsequently accepted in writing or by addendum, and as follows:
 - 1. Extruded Corrugated Roof Deck Panels: Extruded aluminum, nominal 6-inches wide x 3-inches high. All panels shall interlock together with no exposed fasteners. Finish shall be factory baked enamel, in non-metallic standard color selected by Architect from manufacturer's standard full line of color selections.

2. Vertical Panels: Similar to Extruded Corrugated Flat-Pan roof deck panels, except 2-inches high.
3. Fascia/Gutter: Extruded aluminum, at least 7-inches high x 4-inches wide; With minimum metal thickness of 0.094-inch. Finish shall be factory baked enamel, in non-metallic standard color selected by Architect from manufacturer's standard full line selections.
4. Columns: Extruded aluminum, at least 4-inches x 4-inches, with minimum metal thickness of 0.125-inch thick. Corners shall be rounded. Finish shall be factory baked enamel, in non-metallic standard color selected by Architect from manufacturer's standard full line selections.
5. Drainage: All drainage shall drain internally from the deck to the fascia/gutter to the columns, spouting out at ground level with a deflector plate. The hole for the deflector plate shall be cut in the column with the cut straight and neat. Prior to setting deflector plate, fill any internal voids of column with non-metallic non-shrink grout product acceptable to walkway canopy system manufacturer.
6. Flashings and Trim: Same metal and finish as roof deck, unless other metal thickness not less than 0.040-inch is permitted by walkway canopy manufacturer.
7. Sealants: As recommended in writing by walkway canopy manufacturer, or if not recommended by walkway canopy manufacturer, as specified in Section 07900 - "Joint Sealers."

2.2 MATERIALS:

- A. Fasteners: All fasteners in the plane of the roof deck, wall panels and fascia/gutter shall be concealed wherever possible. No exposed fasteners which would penetrate the panels, flashings, etc., will be permitted. Penetrating type fasteners will be allowed only in the vertical plane (i.e. fastening of flashings, battens, trim, etc., and then only if neoprene washers are used externally). Materials used in all fasteners shall be non-magnetic (stainless steel). All exposed fasteners shall match adjacent material, finish and/or color. Length and diameter of screws shall be sufficient to meet design criteria.
- B. Closures: Precut closures as standard with walkway canopy manufacturer, fabricated from same metal as that receiving closure(s), or from gray cross-linked closed-cell polyethylene composition foam, to the exact profile of the members with which it is to function.
- C. Sealants: Non-skinning, non-hardening, non-oxidizing butyl sealant, designed for metal-to-metal concealed joints. Field applied adhesive tape sealants shall be extruded polymeric butyl tape, non-skinning. Use no exposed sealants. Comply with minimum installation requirements of sealant manufacturer and Section 07900 - "Joint Sealers."

- D. Bituminous Coating: Cold-Applied asphalt mastic, SSPC-12, compounded for 15-mil dry film thickness per coat, and approved for the intended use by both the mastic and roofing manufacturers.
- E. Aluminum Extrusions (minimum): Alloy and temper recommended by manufacturer for use intended and as required for proper application of finish indicated but not less than the strength and durability properties specified in ASTM B 221 for 6063-T6.
- F. Aluminum Sheet (minimum): Alloy and temper recommended by manufacturer for use intended and as required for proper application of finish indicated but with not less than the strength and durability properties specified in ASTM B 209 for 5005-H15.
- G. Non-Metallic Shrinkage-Resistant Grout:
 - 1. Pre-mixed, non-metallic, non-corrosive, non-staining product containing selected silica sands, portland cement, shrinkage compensating agents, plasticizing and water reducing agents, complying with CRD-621.
 - 2. Products offered by manufacturer to comply with requirements for non-metallic, non-shrink grout include the following:
 - a. Euco N.S.; Euclid Chemical Company
 - b. Crystex; L & M Construction Chemicals.
 - c. Masterflow 713; Master Builders.
 - d. Five Star Grout; U.S. Grout Corp.
 - e. Upcon; Upco Chemical Division, USM Corp.
 - f. Propak; Protex Industries, Inc.

2.3 **METAL FINISHES:**

- A. General: Comply with NAAMM “Metal Finishes Manual” for recommendations relative to application and designations of finishes.
- B. Finish designations prefixed by “AA” conform to the system established by the Aluminum Association for designating aluminum finishes.
- C. High Performance Organic Coating: AA-C12C42R1x (Chemical Finish: Cleaned with inhibited chemicals; Chemical Finish: Chemical conversion coating, acid chromate-fluoride-phosphate pretreatment; Organic Coating: As specified below). Prepare, pretreat, and apply coating to exposed metal surfaces, to comply with coating and resin manufacturer’s instructions.
 - 1. Fluorocarbon **3-Coat** Coating System: Manufacturer’s standard **3-coat** thermo-cured system, with metallic finish, composed of specially formulated inhibitive primer, fluorocarbon color coat and clear top coat, with both color coat and clear top coat containing not less than 70 percent polyvinylidene fluoride resin by weight; Comply with AAMA 2605.2.

2. Colors: As selected by Architect after Bid Date, from manufacturer's "standard" non-metallic colors; Minimum 15 colors to select from, to include in part, color(s) to match window/storefront framing and/or metal roofing and trim.

2.4 FABRICATION:

- A. General: Fabricate and finish panels, extrusions and accessories at the factory, by manufacturer's standard procedures and processes, as required to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and dimensional requirements and with structural requirements.
- B. Apply bituminous coating or other permanent separation materials on concealed panel surfaces where panels would otherwise be in direct contact with substrate materials that are noncompatible or could result in corrosion or deterioration of either material or finishes.

PART 3 - EXECUTION

3.1 GENERAL:

- A. Installer shall examine all substrates and verify that they are acceptable, which will be acknowledged and accepted by his beginning work. Installer shall verify that all expansion joints, blocking, etc., are securely anchored into place, and that substrate is clean and free of all debris or other substance detrimental to the walkway canopy system work.
 1. Notify the Contractor in writing of conditions requiring corrections, for proper completion of the Work. Do not proceed until unsatisfactory conditions have been satisfactorily completed.
- B. The use of square head nails, staples, and pneumatic or electric nail guns are strictly prohibited.

3.2 PANEL SUPPORTS AND ANCHORAGE:

- A. All volume, fascia/gutter, and other secondary structural panel support members and anchorage shall be installed in strict accordance with manufacturer's current written instructions and recommendations, and their Structural Engineer's Shop Drawings.

3.3 INSTALLATION:

- A. General: Comply with manufacturer's current written instructions and recommendations for installation, as applicable to project conditions and supporting

substrates. Anchor panels and other components of the work securely in place, with provisions for thermal and structural movement.

1. Field cutting of panels and any other component by torch is not permitted.
- B. Accessories: Install all components required for a complete walkway canopy, roof and vertical panel system, including in part, trim, copings, fascia/gutters, soffits, stops, mullions, corner units, closures, clips, seam covers, battens, flashings, sealants, gaskets, fillers, closure strips, water shields, and similar items.
1. Install water-tight flashing and counterflashings at all locations where canopy system abuts buildings.
- C. Joint Sealers: Install gaskets, joint fillers, and sealants where indicated and where required for weatherproof performance of walkway canopy panel systems and accessories. Provide types of gaskets, sealants, and fillers indicated or, if not otherwise indicated, types recommended by walkway canopy manufacturer.
1. Flash and seal panels to exclude weather.
 2. Counter flash over otherwise exposed flashings with metal and finish to match adjacent metal.
 3. Refer to other sections of these specifications for product and installation requirements applicable to indicated joint sealers.
- D. Installation Tolerances: Shim and align panel units within installed tolerance of 1/4-inch in 20'-0" on level/plumb/slope and location/line as indicated, and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

3.4 CLEANING AND PROTECTION:

- A. Damaged Units: Replace panels and other components of the work that have been damaged or have deteriorated beyond successful repair by means of finish touch-up or similar minor repair procedures, as determined solely by the Architect.
- B. Cleaning: Remove temporary protective coverings and strippable films as soon as each panel is installed. Upon completion of panel installation, clean finished surfaces as recommended in writing by walkway canopy system manufacturer, and maintain in a clean condition during construction.

END OF SECTION 10 5300