



**Manheim Township School District**

**REQUEST FOR PROPOSAL**

**Brecht Elementary School Roofing Project**

**Date Due: January 28, 2025, by or before 2:00 pm**

Proposals Shall Be Marked  
"Brecht Elementary School Roofing Project"  
and Submitted Electronically to  
Ashley Spector [spectoas@mtwp.net](mailto:spectoas@mtwp.net).

# BRECHT ELEMENTARY SCHOOL ROOF REPLACEMENT RFP

## 1. Summary

- a. The Manheim Township School District is currently accepting proposals for the Brecht Elementary School Roofing Project.
- b. The desired start date for the project is June 9, 2025.
- c. The project end date shall be no later than August 8, 2025.
- d. This Request for Proposal (RFP) is to solicit proposals from qualified firms, conduct a fair evaluation based on the set criteria, and select the firm that is the best fit for the project.
- e. This project will be procured via a COSTAR vendor and the contractor shall provide their COSTAR number with the deliverables.
- f. Note: The district reserves the right to award the contract as it sees fit and to the firm of its choosing when and how it deems appropriate.

## 2. General Conditions

- a. It shall be the responsibility of the contractor to visit the site and field-verify all aspects of the project prior to submitting proposal for this project.
- b. All work must be done in strict accordance with all applicable OSHA and other safety regulations.
- c. Contractor shall furnish all insurance, permits, labor, materials, equipment, apparatus, tools, transportation, and services necessary for, and incidental to, the proper installation and completion of the designated slate and standing seam metal roofs. This work shall include removing and properly disposing off-site existing roofing shingles and applicable accessories and installing new roof flashings, full sheathing over existing wood plank decks to receive new slate and the installation of standing seam metal roofs over existing nail-board insulation to cover the entire existing steep slope roof areas, leaving a very long term, damage resistant, weatherproof roof.
- d. The scope of work shall include snow guards as specified herein and installed pursuant to manufacturers' warranty requirements.
- e. On a unit cost basis, the contractor shall replace as needed unsuitable underlayment and roof accessories. The unit cost for such items shall be included with the proposal.
- f. All equipment left unattended or not in use shall be secured and inoperable.
- g. The Contractor shall provide a designated site supervisor/lead person who is authorized to make immediate decisions/take action on behalf of the Contractor.
- h. The Contractor is responsible for ensuring the work areas are blocked off to prevent unauthorized individuals from entering while work is being done.
- i. The district reserves the right to stop any work it deems unsafe.
- j. The RFP constitutes the entire agreement between district and contractor relating to the project. The scope of work shall not be modified except by writing, signed on or behalf of both district and contractor.
- k. Contractors will provide the owner with detailed submittals for all materials and installation styles, including, but not limited to:
  1. Slate types, thicknesses, colors, and origins; nail types and lengths; underlayment types and weights; headlaps; ridge style; valley style; flashing materials, including weights, types, and sizes of metals; and new guards.
  2. Standing seam metal roof panel, material, gauge, profile, seam height, in-seam sealant, finish, anchoring method, trim and accessories; and snow guards.
- l. Contractor shall also include the detailed installation and warranty with their submittals for both the slate and standing seam metal roofs.

## 3. Nature and Scope of Work

- a. The purpose of this project is to remove all asphalt shingles and related accessories, replace any unsound decking, install new sheathing within designated slate areas and then install a new slate shingle roofs, standing seam metal roofs, snow guards and related accessories in accordance with the slate manufacturers and standing seam metal roof manufacturers installation and warranty requirements.

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### 4. Location of Work

- a. Brecht Elementary School 1250 Lititz Pike, Lancaster, PA 17601- (see satellite photo in Appendix No. 3 identifying Roof areas to receive Slate and Roof areas to receive Standing Seam Metal roofs).
- b. Slate roof installation guidelines- (Appendix No. 1).
- c. Standing Seam Metal roof installation guidelines- (Appendix No. 2).

### 5. Selection Criteria

- a. All proposals that meet the requirements of this RFP and are submitted by the deadline will be considered based on the submission of the items noted in the deliverables section of this RFP.
- b. Note: The district reserves the right to suspend or terminate acceptance of proposals at any time as it sees fit, for any reason, without notice or obligation to any firm that has submitted a proposal.

### 6. Deliverables

- a. The proposal shall be in the following format:
  1. Contact Information: Provide the name, title, phone number, and email for the contact for follow up questions and/or to notify of status.
  2. Summary & Qualifications: Use this section to introduce your company and provide information on your relevant experience and qualifications.
  3. Methods and Plans: Provide a detailed milestone timeline (Gantt Chart) in this section for all phases proposed work starting with the issuance of the Purchase Order through Final Closeout.
  4. Management and Staff: List all applicable key personnel that would be involved with this project, along with their titles, roles, and qualifications.
  5. Outsourced/Contracted Work: Any outsourced or contracted work is subject to the requirements of this RFP and must be clearly disclosed in the proposal. Proposals that include outsourced or contracted work must provide a name and description of the individuals and/or organizations being contracted. All costs must be itemized and include a detailed explanation of all fees and associated costs.
  6. Project Costs: Provide a detailed breakdown of all expenses, and a summary of the total proposed costs for this project. Provide a square foot or quantity cost for all unforeseen conditions that may be encountered as a Unit Cost (i.e. roof deck replacement). Any work that is not listed in the contractor provided Unit Cost summary shall be included in the base bid price.
  7. COSTAR ID: Provide the firm's Cooperative Purchase COSTAR Identification number.
  8. References: Provide three (3) references from clients for previous work of a similar nature (slate installation and standing seam metal roof installations).

### 7. Insurance Requirements and Limits:

- a. The selected firm shall acquire and maintain for the duration of the contract period, including any warranty period, insurance from a company rated A+ by A.M. Best Company, and authorized to do business in the Commonwealth of Pennsylvania with minimum limits as set forth in Appendix No. 6.

### 8. Site Visit

- a. There will not be a Pre-Bid meeting. However, it is mandatory that contractors schedule a time to visit the site prior to submitting a bid by contacting Ashley Spector at [spectoas@mtwp.net](mailto:spectoas@mtwp.net) and send a follow-up email confirming that the site visit has been completed and whether a proposal will or will not be submitted.

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### 9. Addendums

- a. Shall be issued to document and incorporate changes to the specifications during the request for bid period as specified herein. The Addendum will be issued via email to all contractors so that each will receive the same information. Addendums become a legal part of the proposal documents. Oral information given to firms on matters of such changes are not to be interpreted as an Addendum.

### 10. Prevailing Wage

- a. This project is subject to applicable provisions of the Pennsylvania Prevailing Wage Act of August 15, 1961, P.L. 987, as amended and supplemented, and appropriate prevailing minimum rates, as promulgated under provisions of said Act, must be paid by contractors in connection with performance of the necessary work. Secondly, this project is subject to the Pennsylvania Human Relations Act, the Act of October 27, 1955, P.L. 744 as amended and supplemented. Notice is also given that in the event there are revisions to either Act prior to the start of work that would impact cost to the contractor the School District reserves the right to renegotiate the proposal price with the successful low firm. Prevailing wages are attached. (Appendix No. 4).

### 11. Laws

- a. All applicable laws shall be deemed to be part of the Specifications and the Contractor shall be responsible therewith.

### 12. Criminal History Report

- a. Criminal History Reports (Act 34-1985, Act 151-1994, and FBI) will be required for the Contractor's on-site personnel.

### 13. Performance Bond and Labor and Material Payment Bond

- a. The awarded firm within ten (10) days of being notified of acceptance of the proposal, must provide a Performance Bond and a Labor and Material Bond; each in the amount of one hundred percent (100%) of the contract price. No Bid Bond is required for this project.

### 14. Non-Collusion Affidavit

- a. All proposals shall be submitted with a completed Non-Collusion Affidavit form (Appendix No. 5).

### 15. Taxes

- a. The MTSD is exempt from State and Federal sales and excise taxes.

### 16. Billing

- a. Invoices shall be mailed to the Manheim Township School District, Attn: Ashley Spector, P.O. Box 5134, Lancaster, PA 17606-5134 or emailed to [spectoas@mtwp.net](mailto:spectoas@mtwp.net). Invoices shall be submitted with corresponding Certified Payroll Forms. The School District strives to process payment to vendors within 60-days from the billing date assuming services are performed according to the specifications.

### 17. Questions:

- a. All questions pertaining to this Bid shall be directed to Tom Koch, MTSD Plant Manager, via email at [kochto@mtwp.net](mailto:kochto@mtwp.net) no later than 9:00 a.m. on January 23, 2025. Questions and answers will be compiled and made available via email to all contractors.

### 18. Proposal Due To:

- a. Send proposals via email to: Ashley Spector at [spectoas@mtwp.net](mailto:spectoas@mtwp.net)

### 19. Timeline

- a. **RFP sent:** December 20, 2024
- b. **Last day to submit questions:** January 23, 2025, by 9:00 am
- c. **Proposals due:** January 28, 2025, on or before 2:00 pm
- d. **Proposal award date:** February 20, 2025
- e. Firms who were not selected will be notified by February 24, 2025

**END OF SECTION**

## **Appendix No. 1 Slate Roofing Specifications**

### **1. Technical & Supplemental Conditions**

- a. The installing contractor shall follow all Greenstone Slate Installation Instructions <[Technical Documentation | Greenstone Slate](#)>, SRCA Section 07310 "Slate Shingles" for architectural specification and the supplemental conditions listed below. Where there is a discrepancy, the roofer shall install the roof pursuant to the most stringent parameters/guidelines when pricing this project.

### **2. Summary Requirements**

- a. Slates shall be installed by skilled and experienced roofers who will fit and fasten each slate in accordance with the manufacturer's installation guidelines.
- b. Each roofer proposed for the project should have relevant experience.
- c. Roofer shall purchase Class 4 architectural random width slate from Greenstone Slate, 325 Upper Road, PO Box 134, Poultney, VT 05764. p: 802-287-4333, f: 802.287.5720, toll free: 800.619.4333 Attn: Connor Hill.
- d. Roofer shall agree that the materials used for the project will be installed pursuant to the provisions of Greenstone Slate specifications, SRCA Section 07310 "Slate Shingles" for architectural specification and the supplemental conditions noted herein.
- e. The roofer shall comply with manufacturers ordering instructions and lead time requirements to avoid construction delays.
- f. Shingles may either be stored at the contractor's facility or at Brecht Elementary School (if coordinated with the owner).
- g. Existing wood plank decks at roof areas to receive slate shall be sheathed with ½" thick plywood. Secure plywood 8" on-center along all edges with fasteners installed 12" on-center in rows spaced 16" on-center in the field of sheets.

### **3. Warranty**

- a. Shingle Warranty: Submit slate shingle supplier warranty, signed by the supplier and covering the slate shingles described in this section, in which the supplier agrees to replace slate shingles that fail in materials and deliver the replacement slate to the original point of destination. The duration of this warranty shall be 100-years from the date of original supply.
- b. Roofing Installer Warranty: Submit a roofing installer warranty, signed by roofing installer and covering work of this section, in which the roofing installer agrees to repair or replace slate roofing that fails in materials or workmanship for five (5) years from date of substantial completion.
- c. Additional Roofing Installer Warranty: The roofing installer agrees to return to the job site on an annual basis for the duration of the Roof Installer Warranty to inspect the roof and replace any broken or missing slates created as a result of normal, installation-related, shedding.

### **4. Project Conditions**

- a. The roofer shall proceed with slate shingle installation only after all existing structural repairs have been completed correctly, the existing rubber roof, gutters and downspouts protected, the substrate is dry, and weather conditions are favorable.
- b. Gutters and roof areas will be cleaned of debris at the end of each workday and upon completion of the work.
- c. Existing gutters, downspouts, and remaining roofing and accessories are to be protected from damage during the course of the work.

### **5. Material Storage**

- a. Slate roofing shingles shall be delivered on manufacturer's skids with intact labels indicating source.
- b. Rolled underlayment shall be stored on end and manufacturer's recommendations for job-site storage and protection shall be followed.

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- c. Materials shall not be stored in areas that may obstruct the ingress or egress of essential doorways or walkways, or on low-slope roofs or other roof slopes where the weight of the materials may damage the roof structure.
- 6. Codes and Regulations**
- a. Contractor shall comply with all federal, state, local and contractual regulations regarding specific installations, and abide by applicable building, safety and health codes related to construction practices or use of equipment.
- 7. Roofing Slate**
- a. Slate shall be Class 4 architectural random width slate from Greenstone Slate.
  - b. Color shall be a blend of stock slate colors.
  - c. Hips shall be "saddled" ridges.
  - d. All ridges shall be laid to form "saddled" ridges.
  - e. Nails of the combing slate shall pass through the joints of the slates beneath.
  - f. Valleys shall be "open valley" 20-oz copper with center water diverter and side hemmed water-stops to receive securement straps. All seams shall be lapped shingle fashion and shall not be soldered.
  - g. The roofer shall draw (shuffle) slates from several pallets to blend the material on the roof prior to installation.
  - h. Slate shall project 2 inches at eaves and 1 inch at gable ends and shall be laid in horizontal courses with 3 inch headlaps, and each course shall break vertical joints with a minimum of 3 inch sidelap.
  - i. Starter or "under eave" slates and slates at the ridge shall be canted 1/4 inch by a wooden cant strip which shall be supplied by the roofer.
  - j. Copper nails shall not be driven as to produce strain on slates. The slate shall be loose when fully nailed. NOTE: If this is not executed properly, building movement could draw the nail head through the slate.
  - k. Exposed nails are only permissible at the top courses (where unavoidable).
  - l. Exposed nail heads shall be covered with elastic cement in accordance with the manufacturer's installation requirements.
  - m. Hip slates and ridge slates shall be laid in elastic cement spread thickly over unexposed surface of under courses, nailed securely in place, and pointed with elastic cement in accordance with the manufacturer's installation requirements.
  - n. All penetrations such as pipes and ventilators shall have slate neatly fitted around them.
  - o. The roofer shall build in, and place, all flashing pieces. Each course of slate shall have 20-oz copper step-flashing neatly woven into the slate. Form step flashing with hemmed water-stops along the horizontal edge parallel with the roof slope.
  - p. Entire surfaces of all roofs, except as noted, shall be covered with slate in a proper and weatherproof manner.
  - q. Upon completion, all slates must be sound, whole, and clean. The roof must be left watertight and neat in every respect, and subject to the owner's approval.
  - r. Provide an additional one square of field slates, twenty pieces of starter slate, and thirty pieces of hip and ridge slates for the owner's attic stock for use in future roof maintenance/repairs.
  - s. The maintenance stock is to be placed in storage in a location at the work site to be determined by the owner.
- 8. Protection of Roof Surfaces**
- a. The adjoining rubber roofs, gutters and roof accessories shall be protected prior to the start of work.
  - b. Workers shall not damage slates by walking on them.
  - c. The roof shall be properly staged to allow safe work surfaces, such as planks, that prevent unnecessary foot traffic on the slates.

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- d. Where foot traffic is unavoidable, roof ladders, hook ladders, chicken ladders, foam pads or other such devices should be used to protect the slates.
- 9. Slate Size**
- a. Random sizes with graduated exposure.
- 10. Slate Thickness**
- a. Class 4-  $\frac{3}{8}$ -  $\frac{1}{2}$  inch.
- 11. Nail Holes**
- a. Each slate shall be machine punched and located for proper headlap.
- 12. Physical Requirements**
- a. Slates shall be randomly selected from each shipment and tested for grain direction to ensure proper fabrication.
  - b. Slates with broken corners on the exposed ends shall not be installed when either the base or leg of the right triangular piece broken off is greater than 1 1/2 inches.
  - c. Slates with broken corners are acceptable for cutting stock only.
  - d. The curvature of shingles shall not exceed 1/8 inch in 12 inches.
  - e. Curved slates shall be trimmed and holed to permit them to be laid with the convex side facing up.
  - f. "Knots" and "knurls" defects are acceptable on the exposed portion of the top face only.
  - g. Shingles having knots or knurls on the covered portions projecting more than 1/16 inch shall not be used.
  - h. Slates shall be free from ribbons.
  - i. Not more than 1% of broken slates, including those having cracks materially precluding ringing when sounded, will be accepted.
  - j. Face dimensions shall not differ from those specified by more than 1/8 inch.
- 13. Approved Slate Supplier**
- a. The slate shall be furnished by Greenstone Slate, 325 Upper Road, PO Box 134, Poultney, VT 05764, p-802-287-4333, f-802.287.5720, toll free: 800.619.4333 Attn: Connor Hill.
    - 1. Project pricing shall be based on securing slate from "Greenstone Slate" only.
    - 2. Substitutions will be considered from the low bidder but only after proposals are opened and reviewed.
    - 3. No substitution requests shall be submitted during the bidding period.
- 14. Roofing Felt**
- a. The roofer shall use 30-pound asphalt saturated rag felt per ASTM D 226. 2.03.
  - b. The roofer shall lay the felt in horizontal layers, with joints lapped toward the eaves at least 2 inches.
  - c. The felt shall be well secured along laps and at ends as necessary to properly hold the felt in place and protect the structure until the slate has been installed.
  - d. The Roofer shall lap the felt over all hips and ridges at least 12 inches to form double thickness.
  - e. The Roofer shall lap the felt 2 inches over the metal of any valleys or built-in gutters.
- 15. Nails**
- a. Nails shall be solid copper, smooth-shank roofing nails, minimum 10 gauge, minimum 1 1/2 inch or longer for field, and 2 inches for slates on hips and ridges.
  - b. Nails should adequately penetrate the roof deck.
- 16. Caulking**
- a. The roofer shall use approved waterproof elastic slaters' cement, color to match slate.
- 17. Cants**
- a. Copper 20-ounce edging with a built-in cant shall be used.
  - b. Cant size shall be pursuant to the manufacturer's guidelines based on the thickness of the slate.

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### **18. Flashing**

- a. The roofer shall use copper flashing in accordance with Greenstone Slate guidelines.
- b. Flashing shall be installed where there are roof plane intersections, where the roof abuts walls, parapets, dormers and chimneys, or where there are roof penetrations.
- c. All flashings and fasteners are to be galvanically compatible metals.
- d. Flashing shall be installed according to the SMACNA "Architectural Sheet Metal Manual" and the publication "Copper and Common Sense" by Revere Copper Products.

### **19. Eaves**

- a. The starter course of slates shall be laid horizontally (with the long edge perpendicular to the roof slope) with the bevel-edged side facing down and be canted to allow the starter slates to be tilted to the same angle as the field slates.
- b. The starter slates shall have nail-holes 1" to 1 1/2" down from the top, long edge of the slate, and approximately 1 1/2" in from each short edge.
- c. Eave slates shall be laid to provide the specified overhang (1 1/2"), beyond the furthest extent of the fascia, cornice, crown molding, metal drip edge, trim, or other construction material at the eaves.
- d. Slates at the eaves shall be doubled by first installing a slate starter course. The first course of slate shall be laid over the starter course so that the butt edges of both courses align. The first course of slate shall break side joints with the starter course side joints by not less than 3". The second course of slates must overlap the starter course by at least the headlap of the field slates along the eaves.

### **20. Open Valley Installation**

- a. Slates at the edges of valleys shall be cut in neat and straight lines.
- b. Valley slates are to be cut from the back of the slate to maintain a beveled slate edge.
- c. Clip the upper corner of valley slates to allow the slate to lay correctly and to direct moisture toward the valley centerline. \
- d. For fabrication of valley flashing, lay slate shingles a minimum of 3"-4" each side of the valley centerline.
- e. Taper outward 1/16" per foot from top to bottom to allow for release of ice.
- f. When fastening slates, do not puncture valley flashing with nails. Use wider slates as needed; place two nails, one above the other along the edge of the slate farthest from the valley centerline; or, hang slates from copper wire secured above the top edge of the valley flashing.
- g. Adjust width of slates approaching a valley to avoid the need to cut slate to a point at the valley; width of the butt of the valley slate shall be 3" minimum.

### **21. Ice Dam Installation**

- a. Self-Adhering polyethylene faced ice dam protection at eaves (24" up beyond insulated wall), rakes (full 36" wide sheet), valleys (2-36" wide sheets lapped 12" over the valley centerline), ridges (36" wide sheet centered over the ridge), hips (36" wide sheet centered over the hip) and along walls (36" wide sheet extended up vertical wall surface minimum 3") pursuant to ASTM D 1970, minimum of 30 mils thick, slip-resistant, polyethylene-film or granule surfaced laminated to SBS-modified asphalt adhesive, with release-sheet backing; cold applied. manufactured by. "Grace Ice & Water Shield HT," GCP Applied Technologies, Inc.

### **22. Snow Guards**

- a. Install five rows (5) rows traditional spread pattern of Rocky Mountain Yeti 18 copper snow guards pursuant to manufacturer's installation guidelines <[yeti-18-system-packet\\_0.pdf](#)>.

### **23. Closeout**

- a. Contractor shall inspect the attic space prior to work starting and clean-up dust and dirt that may infiltrate into the attic space during installation or removal of roofing slate when the project has been completed.



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**Slate Roofing Specifications**

**24. Substitutions**

- a. Project pricing shall be based on solely using the products specified herein.
- b. Substitutions will be considered from the low bidder but only after proposals are opened and reviewed.
- c. No substitution requests shall be sent to the owner during the bidding period.

**End of Section**

## **APPENDIX 2 PREFORMED METAL STANDING SEAM ROOFING**

### **1. DESCRIPTION OF WORK**

- a. This section covers the pre-finished, prefabricated architectural standing seam roof system.

### **2. DEFINITIONS**

- a. Metal Roof Panel Assembly: Metal roof panels, flashings, attachment system components, miscellaneous metal framing, thermal, and accessories necessary for a complete weathertight roofing system.
- b. References:
  - 1. American Society for Testing and Materials (ASTM)
  - 2. ASTM A 653: Steel Sheet, Zinc Coated by the Hot Dip Process
  - 3. ASTM A 792: Steel Sheet, Aluminum-Zinc Alloy Coated by the Hot Dip Process
  - 4. ASTM B 209: Aluminum and Aluminum Alloy Sheet and Plate
  - 5. ASTM B370 Standard Specification for Copper Sheet and Strip for Building Construction
  - 6. Sheet Metal and Air Conditioning Contractors National Association (SMACNA)
  - 7. SMACNA Architectural Sheet Metal Manual, 1993 edition
  - 8. American Iron and Steel Institute (AISI)
  - 9. AISI Cold Formed Steel Design Manual
  - 10. Aluminum Association
  - 11. Aluminum Design Manual
  - 12. Metal Construction Association
  - 13. Preformed Metal Wall Guidelines
  - 14. Code References
    - i. ASCE, Minimum Loads for Buildings and Other Structures
    - ii. BOCA National Building Codes
    - iii. UBC Uniform Building Code
    - iv. SBC Standard Building Code

### **3. QUALITY ASSURANCE/SUBSTITUTIONS**

- a. Contractor shall install standing seam roofing manufactured by Petersen Aluminum Corp, Annapolis Junction, MD, 800-344-1400 and all flashing and accessories pursuant to the manufacturers warrant requirements.
- b. No substitution requests shall be sent to the owner during the bidding period. Substitutions will be considered from the low bidder but only after proposals are opened and reviewed.
- c. Manufacturer and erector shall demonstrate experience of a minimum of five (5) years in this type of project.
- d. Panels shall be factory-produced only. No portable, installer-owned, or installer-rented machines will be permitted.

### **4. SYSTEM DESCRIPTION**

- a. Material to comply with:
  - 1. ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process

### **5. ROOF SYSTEM PERFORMANCE TESTING**

- a. General Performance: Metal roof panels shall comply with performance requirements without failure due to defective manufacture, fabrication, installation, or other defects in construction.
- b. Roof System shall be designed to meet Standard Building Code Wind Load requirements.
- c. Panels to meet:
  - 1. Water Penetration: When tested per ASTM E-283/1680 and ASTM E-331/1646 there shall be no uncontrolled water penetration or air infiltration through the panel joints.

## **APPENDIX 2**

### **PREFORMED METAL STANDING SEAM ROOFING**

2. Roof System shall be designed to meet a UL Class 90 wind uplift in accordance with UL standard 580 and panel system shall be ASTM 1592 Tested and approved.
3. UL 2218 - Impact Resistance rated.

#### **6. WARRANTIES**

- a. Weathertight Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace standing seam metal roof panel assemblies that fail to remain weathertight, including leaks, within 20 Years from date of Substantial Completion.
- b. Finish Warranty: Manufacturer's standard form in which manufacturer agrees to repair finish or replace standing seam metal roof panels that show evidence of deterioration of factory-applied finish within specified warranty period.
  1. Exposed Panels Finish - deterioration includes the following:
    - i. Color fading more than 5 hunter units when tested according to ASTM D 2244
    - ii. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214
    - iii. Cracking, checking, peeling or failure of a paint to adhere to a bare metal.
- c. Roofing Installer Warranty: Roof installers warranty, in which roofer agrees to repair or replace standing seam roofing that fails in materials or workmanship for five (5) years from date of substantial completion.
- d. Additional Roofing Installer Warranty: The roofing installer agrees to return to the job site on an annual basis for the duration of the Roof Installer Warranty to inspect the roof and make any repairs needed.

#### **7. SUBMITTALS**

- a. Furnish detailed drawings showing profile and gauge of exterior sheets, location and type of fasteners, location, gauges, shape, and method of attachment of all trim locations and types of sealants, and any other details as may be required for a weather-tight installation.
- b. Provide finish samples for up to five standard colors requested by the owner.
- c. Shop drawings: Show fabrication and installation layouts of metal roof panels, metal wall panels or metal soffit panels, details of edge conditions, side-seam joints, panel profiles, corners, anchorages, trim, flashings, closures and accessories, and special details. Distinguish between factory and field-assembled work.
- d. Coordination Drawings: Roof plans, drawn to scale, on which the following are shown and coordinated with each other, based on input from installer of the items involved:
  1. Roof panels and attachments
  2. Metal trusses, bracings and supports.
  3. Flashing and accessories.
  4. Roof-mounted items including snow guards and items mounted on roof curbs.

#### **8. DELIVERY, STORAGE AND HANDLING**

- a. Ordering: Comply with manufacturer's ordering instruction and lead time requirements to avoid construction delays.
- b. Deliver components, sheets, metal roof panels and other manufactured items so as not to be damaged or deformed. Package metal roof panels for protection during transportation and handling.
- c. Unload, store and erect metal roof panels in a manner to prevent bending, warping, twisting and surface damage.
- d. Stack metal roof panels on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal roof panels to ensure dryness. Do not store metal roof

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panels in contact with other materials that might cause staining, denting or other surface damage.

- e. Protect strippable protective coating on any metal coated product from exposure to sunlight and high humidity, except to the extent necessary for material installation.

### **9. PROJECT CONDITIONS**

- a. Weather Limitations: proceed with installation only when existing and forecasted weather conditions permit metal roof panel work to be performed.
- b. Field Measurements: Verify actual dimensions of construction contiguous with metal roof panels by field measurements before fabrication.

### **10. COORDINATION**

- a. Coordinate sizes and locations of roof curbs, equipment supports and roof penetrations with actual equipment provided.
- b. Coordinate metal roof panels with rain drainage work, flashing, trim and construction of decks, parapet walls and other adjoining work to provide a leakproof, secure and noncorrosive installation.

## **PART 2 - PRODUCTS**

### **1. PANEL DESIGN**

- a. General: Provide factory-formed metal roof panels designed to be installed by lapping and interconnecting raised side edges of adjacent panels with joint type indicated and mechanically attaching panels to supports using concealed clips inside laps. Include clips, cleats, pressure plates and accessories required for a weathertight installation.
- b. Roof panels shall be Snap Clad standing seam in 16" widths with 1 3/4" high seam.
- c. Panels to be produced with factory supplied hot melt mastic in the seams.
- d. Panels to be produced with stiffening ribs. Panels to be designed for attachment with concealed fastener clips, spaced as required by the manufacturer to provide for both positive and negative design loads, while allowing for the expansion and contraction of the entire roof system resulting from variations in temperature.
- e. Forming: Use continuous end rolling method. No end laps on panels. No portable roll forming machines will be permitted on this project, no installer-owned or installer-rented machines will be permitted. It is the intent of the Architect to provide Factory-Manufactured panel systems only for this project.

### **2. MATERIALS AND FINISHES**

- a. Preformed roofing panels shall be fabricated of 22 GA Steel Color shall be Standard Pac-Clad Finish.
- b. Finish shall be Kynar 500 coating with a top side film thickness of 0.70 to 0.90 mil over a 0.25 to 0.3 mil prime coat to provide a total dry film thickness of 0.95 to 1.25 mil, to meet AAMA 621. Bottom side shall be coated with a primer with a dry film thickness of 0.25 mil. Finish shall conform to all tests for adhesions, flexibility and longevity as specified by Kynar 500 finish supplier.
- c. Strippable coating to be applied on the pre-finished panels to the top side to protect the finish during fabrication, shipping and handling, film shall be removed before installation.
- d. Trim shall be fabricated of the same material, gauge, and finish to match the profile, and will be press broken in lengths of 10 to 12 feet. Trim shall be formed only by the manufacturer of their approved dealer. Trim to be erected in overlapped condition. Use lap strips only as indicated on drawings. Miter conditions shall be factory welded material to match the sheeting.
- e. Closures: use composition or metal profiled closures at the top of each elevation to close ends of the panels. Metal closures to be made in the same material and finish as face sheet.

## **APPENDIX 2 PREFORMED METAL STANDING SEAM ROOFING**

- f. Fasteners: Fasteners shall be of type, material, size, corrosion resistance, holding power and other properties required to fasten miscellaneous framing members to substrates.
  - g. Substrate shall be existing nail base.
  - h. Snow Guards shall be Snow Defender® 7500 DECO™ powder coated stainless steel, in a standard color, installed in quantity and pattern pursuant to the manufacturer warranty requirements.
  - i. Roofing Underlayment
    - 1. On all surfaces to be covered with roofing material, furnish, and install a 40 mil “Peel & Stick membrane”, required as outlined by metal panel manufacturer. Membrane to be a minimum of 40 mil thickness, smooth, non-granular, high temperature. Contractor shall install: Carlisle WIP 300 HT High Temperature Protection Self Adhering Roofing.
    - 2. Underlayment shall be laid in horizontal layers with joints lapped toward the eaves a minimum of 6”, and well secured along laps and at ends as necessary to properly hold the felt in place. All underlayment shall be preserved unbroken and whole.
    - 3. Peel and Stick Underlayment shall lap all hips and ridges at least 12” to form double thickness and shall be lapped 6” over the metal of any valley or built-in gutters and shall be installed as required by the Standing Seam Panel Manufacturer to attain the desired 20 Year Weathertightness Warranty.
  - j. Sealants
    - 1. Provide two-part polysulfide class B non-sag type for vertical and horizontal joints or one part polysulfide not containing pitch or phenolic extenders or exterior grade silicone sealant recommended by roofing manufacturer one-part non-sag, gun grade exterior type polyurethane recommended by the roofing manufacturer.
- 3. FABRICATION**
- a. Comply with dimensions, profile limitations, gauges, and fabrication pursuant to manufacturer's standard product fabrication.
  - b. Fabricate components of the system in factory, ready for field assembly.
  - c. Fabricate components and assemble units to comply with fire performance requirements specified.
  - d. Apply specified finishes in conformance with manufacturer's standard, and according to manufacturer's instructions.

### **PART 3 - EXECUTION**

- 1. INSPECTION**
- a. Examine alignment of structural steel and related supports, primary and secondary roof framing, solid roof sheathing, prior to installation.
  - b. For the record, prepare written report, endorsed by installer, listing conditions detrimental to performance of the Work.
  - c. Proceed with installation only after unsatisfactory conditions have been corrected.
- 2. FASTENERS**
- a. Secure units to supports.
  - b. Place fasteners as indicated in manufacturer's standards.
- 3. INSTALLATION**
- a. Panels shall be installed plumb and true in a proper alignment and in relation to the structural framing. The erector must have at least five years successful experience with similar applications.

**APPENDIX 2**  
**PREFORMED METAL STANDING SEAM ROOFING**

- b. Install metal panels, fasteners, trim and related sealants in accordance with approved shop drawings and as may be required for a weather-tight installation.
  - c. Remove all strippable coating and provide a dry-wipe down cleaning of the panels as they are erected.
4. **DAMAGED MATERIAL**
- a. Upon determination of responsibility, repair or replace damaged metal panels and trim to the satisfaction of the Owner.

**End of Section**

**Appendix No. 3  
Photo of Brecht Roof Areas**



Blue: Slate

Red: Standing Seam

**Appendix No. 4**  
**Prevailing Wage Determination**

The Brecht Elementary Roof Project Prevailing Wages Determination Project Serial Number is #24-10381.

Please go to:

<https://www.dlisureweb.pa.gov/PrevWage/Pages/Project.aspx?ID=188860&PageType=>

to view the wage rates for this project and print a hard copy for your records.



**Appendix No. 5**

**MANHEIM TOWNSHIP SCHOOL DISTRICT  
NON-COLLUSION AFFIDAVIT**

Contract / RFP Number: \_\_\_\_\_

State of: \_\_\_\_\_

County of \_\_\_\_\_

I state that I am \_\_\_\_\_ (title) of \_\_\_\_\_ (Name of firm) and that I am authorized to make this affidavit on behalf of my firm, and its owners, directors, and officers. I am the person responsible in my firm for the price (s) and the amount of this bid.

I state that:

(1) The price(s) and amount of this bid have been arrived at independently and without consultation, communication or agreement with any other contractor, bidder, or potential bidder.

(2) Neither the prices(s) nor the amount of this bid, and neither the approximate price (s) nor approximate amount of this bid, have been disclosed to any other firm or person who is a bidder or potential bidder, and they will not be disclosed before bid opening.

(3) No attempt has been made or will be made to induce any firm or person to refrain from bidding on this contract, or to submit a bid higher than this bid, or to submit any intentionally high or noncompetitive bid or other form of complementary bid.

(4) The bid of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive bid.

(5) (Name of my firm), its affiliates, subsidiaries, officers, directors, and employees are not currently under investigation by any governmental agency and have not in the last four years been convicted or found liable for any act prohibited by State or Federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding on any public contract, except as follows:

I state that \_\_\_\_\_ (Name of firm) understands and acknowledges that the above representations are material and important and will be relied on by MANHEIM TOWNSHIP SCHOOL DISTRICT in awarding the contract(s) for which this bid is submitted. I understand and my firm understands that any misstatement in this affidavit is and shall be treated as fraudulent concealment from MANHEIM TOWNSHIP SCHOOL DISTRICT of the true facts relating to the submission of bids for this contract.

\_\_\_\_\_ (Name and Company Position)

SWORN TO AND SUBSCRIBED  
BEFORE ME THIS \_\_\_\_\_ DAY  
OF \_\_\_\_\_, 2024

\_\_\_\_\_ (Notary Public) My Commission Expires \_\_\_\_\_

## Appendix No. 6

### Insurance Requirements and Limits

1. Commercial General Liability:
  - \$2,000,000 Products/Completed Operations
  - \$2,000,000 General Aggregate
  - \$1,000,000 Any One Occurrence
  - \$1,000,000 Personal & Advertising Injury

Policy shall be written on an Occurrence form. Policy shall include coverage for: Employees, Volunteers, and Independent Contractors; Premises, Operations and mobile equipment liability; Contractual Liability insuring the obligations assumed by the sub-contractor or vendor in this subcontract; Completed Operations and Products Liability; Broad form Property Damage Liability, including completed operations; Liability that the Subcontractor may incur as a result of the operations, acts, or omissions of its subcontractors, suppliers, agents or employees.

The Certificate must show the Manheim Township School District, as an additional insured for ongoing and completed operations on the General Liability policy. Additional insured status must apply on a primary and non-contributory basis. A copy of the policy endorsement showing additional insured status and any other special policy provisions which may exclude or limit our insured position must be attached to the Certificate.

2. Umbrella/Excess Coverage: To extend additional limits of coverage over the General Liability, Auto Liability, Professional Liability, and Employers' Liability insurance policies.
  - Each Occurrence \$2,000,000
  - Aggregate \$2,000,000
3. Professional Liability:
  - Per Claim \$2,000,000
  - Aggregate \$2,000,000
4. Commercial Automobile Liability: Including coverage for owned, hired and non-owned vehicles.
  - \$1,000,000 Combined Single Limit for Bodily Injury and Property Damage
5. Workers' Compensation and Employers' Liability:
  - Statutory limits as required by the State of Pennsylvania
6. Employers Liability Coverage (*Part 2 on your Worker's Compensation Policy*)
  - \$100,000 Each Accident
  - \$100,000 Each Employee for Injury by Disease
  - \$500,000 Aggregate for Injury by Disease

The Certificate of insurance must provide that the policies shown on the Certificate cannot be cancelled until after thirty (30) days written notice to the Certificate Holder, and if the expiration date of the policies occurs during the term of the awarded contract, a renewal certificate of insurance (with policy numbers) will be provided to the Manheim Township School District, prior to the effective date of the renewal policies.

General Liability, Umbrella/Excess Liability, Professional Liability, Automobile, and workers compensation policies shall be endorsed to include waiver of subrogation in favor of Manheim Township School District.