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State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

#### Request for Quotation

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## GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid.
- 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
- 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
- 5. Payment may only be made after the delivery and acceptance of goods or services.
- 6. Interest may be paid for late payment in accordance with the West Virginia Code.
- 7. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
- 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 12. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
- 13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
- 14. CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.
- 15. LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
- 16. ANTITRUST: In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

#### INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
- 2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- 4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
- 5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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\*709035857

PO BOX

State of West Virginia Department of Administration **Purchasing Division** 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

#### Request for Quotation

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ADDRESS CORRESPONDENCE TO ATTENTION OF: BUYER 32 304-558-2544

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304-4303-5244 TRI STATE ROOFING & SHEET META

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DIV ENGINEERING & FACILITIES NATIONAL GUARD ARMORY

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2019 Washington Street East
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\*709035857 304-328-5244 TRI STATE ROOFING & SHEET META PO BOX S9Z MAGANTOWN WV 26507-089Z

DIV ENGINEERING & FACILITIES NATIONAL GUARD ARMORY

ROUTE 1, BOX 74 SALEM, WV 26426

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## DEFK11010

## Addendum #1

1. **Question:** Could we get the plans and specs for this project? We have a copy of the RFQ but are still needing to get the plans and specs.

**Answer:** The plans and specifications for this project are pages 12 through

22 of the RFQ.

2. Question: What is a standard size roof access hatch?

**Answer:** The standard size roof access hatch is 32" X 36".

3. **Question:** Will the price per lineal foot of nailers used include nailers added to match the heighth of added insulation?

**Answer:** No, the price per lineal foot applies to replacing deteriorated wood nailers as needed.

- 4. **Question:** What width flashing will be used to strip in the drill hall seams? **Answer:** The drill hall seams will be stripped in with 6" uncured flashing.
- 5. **Question:** If Trane does not have a direct replacement for the exhaust fans, what will be an acceptable replacement?

Answer: Exhaust fans are to be replaced with Dayton #4YC67 OR EQUAL.

6. **Question:** What is to be done to correct the ponding shown on the drawing?

**Answer:** There will be a 32' X 36' X 21' tapered insulation cricket installed in ponding area shown on drawing to establish slope to roof drain.

SIGN IN SHEET

Request for Proposal No. OEFK 11010

PLEASE PRINT

Page 2 of 2 Date:

PLEASE BE SURE TO PRINT LEGIBLY - IF POSSIBLE, LEAVE A BUSINESS CARD

304-428-4623 PHONE 304 422 - 543 TOLL FREE 800 - 464 - 850 PHONE 304 - 429 - 4233 TELEPHONE & FAX NUMBERS PHONE 301-375-5244
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FREE PHONE 740-867.2727 TOLL FREE 325 3700 PHONE 304 327 53/4 TOLL 80 325 8/79 FAX 740-867.2727 M GALGANTOWN, WV 26507-0819C+0X 304-328-5748 FAX FAX FREE FAX CHESAPEACE, OL YSCAP Bloomer Com 2470) 2000 PRINCETON ANE MAILING ADDRESS endring K P.O. BUX SAZ FO. Box 400 TRI-STAFT ROBANG (SHEET MENT) Email Actress: 102 6 missausa halmetak. 1000 Email Address: KHANKAN @ TRI-SANTESKNIE GM Company: Mussay Sheet Mets Email Address: devil a Doggs COPS (Az Com Email Address: Tomeral @ Prychook yo. Com Email Acdress: +AIR/ANNIC @ 401. (3) FIRM & REPRESENTATIVE NAME Frye Roofing INC. Jeremi Robinson Kew Howson JOAK KUSSELL Company: FAIRFIX, INC. Company: ANSS 今々なた Company Rep: Rep



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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

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State of West Virginia Department of Administration Quotation Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

TRI-STATE ROOFING & SHEET METAL

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## Request for

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**DIV ENGINEERING & FACILITIES** NATIONAL GUARD ARMORY

ROUTE 1, BOX 74 SALEM, WV 26426

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SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE TELEPHONE 304-328-5244 ADDRESS CHANGES TO BE NOTED ABOVE 55-0367488



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State of West Virginia Department of Administration Quotation Purchasing Division -2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

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DIV ENGINEERING & FACILITIES NATIONAL GUARD ARMORY

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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

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**DIV ENGINEERING & FACILITIES** NATIONAL GUARD ARMORY

ROUTE 1, BOX 74 SALEM, WV 26426

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# Army National Guard Salem, WV

#### PART 1 GENERAL

#### 1.01 DESCRIPTION

- A. The Salem Army National Guard is located at RR 50, West Salem Road in Salem, WV 26426.
- B. The project consists of installing Carlisle's Sure-Seal (black) Design "A" Fully Adhered Roofing System (or State Approved Equal) as outlined below:
- C. Replace one each access hatch with a Bilco standard size aluminum roof hatch or equal.
- D. Replace one skylight (34" x 34") with a clear on white double domed finished. Reuse existing curb and be covered in the total system warranty.
- E. Retro-fit all roof drains with a insert that will be covered in the total system warranty,
- F. Replace five (19" x 19") exhaust fans. Match the CFM with existing fans.
- G. Install two splash blocks for down spouts.
- H. Remove two antennas and lower them to the ground. The owner will dispose of them.
- I. Add wood blocking at all curb locations to maintain a minimum 10" height from top of insulation.
- J. **Drill Hall Roof (Gym):** The existing roof will remain. Strip in all seams to include factory seams. Reflash all penetrations to include the chimney. Fabricate 8 drop tube from .063 aluminum with solid wields, screens, and flash in to existing membrane roof. Replace all down spout and elbows with .032 mil finished material.
- K. Install 140 LF of buried 6" scheduled 40 PVC storm drain line, tie-in three down spouts to the underground, install three clean outs (4" minimum) and terminate at ground level at drop inlet as shown on drawing. The drain will be aminimum of 12' at the first downspout and have a minimum of 1/16' fall per foot.

Apply the Fully Adhered EPDM Roofing System in conjunction with two layers of 1.5" (R-18.0) Polyiso or equal Insulation after tear off of the existing roof to expose the Tectum Deck for verification of suitable substrate as specified in this specification. Existing roof is .060 ballasted membrane, 1" polyiso or equal insulation with single layer of vapor barrier. Ballast is to be disposed of on site.

#### 1.02 EXTENT OF WORK

A. Provide all labor, material, tools, equipment, and supervision necessary to complete the installation of a Sure-Seal or equal .060 inch thick non-reinforced EPDM membrane Fully Adhered Roofing System (or equal) including flashings and insulation as specified herein and as indicated on the drawings in accordance with the manufacturer's most current specifications and details.

Bids will include a price per square foot to replace tectum decking as needed and a price per lineal foot to add or replace wood nailers as needed.

- B. The roofing contractor shall be fully knowledgeable of all requirements of the contract documents and shall make themselves aware of all job site conditions that will affect their work.
- C. The roofing contractor is responsible for confirming all measurements.
- D. Any contractor who intends to submit a bid using a roofing system other than the approved manufacturers must submit for pre-qualification in writing five (5) days prior to the bid date. Any contractor who fails to submit all information as requested will be subject to rejection.

#### 1.03 SUBMITTALS

- A. Prior to starting work, the roofing contractor must submit the following:
  - 1. Shop drawings showing layout, details of construction and identification of materials.
  - 2. Sample of the manufacturer's Membrane System Warranty.
  - 3. Submit a letter of certification from the manufacturer which certifies the roofing contractor is authorized to install the manufacturer's roofing system and lists foremen who have received training from the manufacturer along with the dates training was received.
  - 4. Certification of the manufacturer's warranty reserve.
- B. Upon completion of the installed work, submit copies of the manufacturer's final inspection to the specifier prior to the issuance of the manufacturer's warranty.

### 1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Materials delivered to the job site must be in the manufacturer's original, unopened containers or wrappings with the manufacturer's name, brand name and installation instructions intact and legible. Sufficient quantity to permit work to continue without interruptionmust be on site prior to start of project.
- B. Roofing Contractor must comply with the manufacturer's written instructions for proper material storage as follows.
  - Store materials, except membrane, between 60°F and 80°F in dry areas protected from water and direct sunlight. If exposed to lower temperature, restore to 60°F minimum temperature for a minimum of one hour before using.
  - 2. Store materials containing solvents in dry, well ventilated spaces with proper fire and safety precautions. Keep lids on tight. Use before expiration of their shelf life.
- C. Insulation must be on pallets, off the ground and tightly covered with waterproof materials.
- D. Any materials which are found to be damaged shall be removed and replaced at the applicator's expense.

#### 1.05 WORK SEQUENCE

- A. Contractor must schedule and execute work to prevent leaks and excessive traffic on completed roof sections. Care should be exercised to provide protection for the interior of the building and to ensure water does not flow beneath any completed sections of the membrane system.
- B. Do not disrupt activities in occupied spaces.

#### 1.06 USE OF THE PREMISES

- A. Before beginning work, the roofing contractor must secure approval from the building owner's representative for the following:
  - Areas permitted for personnel parking.
  - 2. Access to the site.
  - 3. Areas permitted for storage of materials and debris.
  - 4. Areas permitted for the location of cranes, hoists and chutes for loading and unloading materials to and from the roof.
- B. Interior stairs or elevators will not be used for removing debris or delivering materials.

#### 1.07 EXISTING CONDITIONS

If discrepancies are discovered between the existing conditions and those noted on the drawings, immediately notify the owner's representative by phone and solicit the manufacturer's approval prior to commencing with the work. Necessary steps shall be taken to make the building watertight until the discrepancies are resolved.

#### 1.08 PRE-BID CONFERENCE

A mandatory pre-bid conference will be held on 24 August, 2010 at the Salem National Guard Armory. Failure to attend will result in disqualification of bid.

#### 1.09 TEMPORARY FACILITIES AND CONTROLS

- A. Temporary Utilities:
  - 1. Water, power for construction purposes and lighting are available at the site and will be made available to the roofing contractor.
  - 2. Contractor will provide all hoses, valves and connections for water from source designated by the owner when made available.
  - 3. When available, electrical power should be extended as required from the source. Contractor will provide all trailers, connections and fused disconnects.
- B. Temporary Sanitary Facilities

Sanitary facilities will be available at the job site.

- C. Building Site:
  - 1. The roofing contractor shall use reasonable care and responsibility to protect the building and site against damages. The contractor shall be responsible for the correction of any damage incurred as a result of the performance of the contract.
  - 2. The roofing contractor shall remove all debris from the job site in a timely and legally acceptable manner so as to not detract from the aesthetics or the functions of the building.

#### D. Security:

Contractor shall meet the owner's requirements for personnel identification, inspection and other security measures.

#### 1.10 JOB SITE PROTECTION

- A. The roofing contractor shall adequately protect building, paved areas, service drives, lawn, shrubs, trees, etc. from damage while performing the required work. Provide canvas, boards and sheet metal (properly secured) as necessary for protection and remove protection material at completion. The contractor shall repair or be responsible for costs to repair all property damaged during the roofing application.
- B. During the roofing contractor's performance of the work, the building owner will continue to occupy the existing building. The contractor shall take precautions to prevent the spread of dust and debris, particularly where such material may sift into the building. The roofing contractor shall provide labor and materials to construct, maintain and remove necessary temporary enclosures to prevent dust or debris in the construction area(s) from entering the remainder of the building.
- C. The contractor will not overload any portion of the building, either by use of or placement of equipment, storage of debris, or storage of materials.
- D. The contractor will protect against fire and flame spread as well as maintain proper and adequate fire extinguishers.
- E. The contractor will take precautions to prevent drains from clogging during the roofing application. Remove debris at the completion of each day's work and clean drains, if required. At completion, test drains to ensure the system is free running and drains are watertight. Remove strainers and plug drains in areas **where work is in progress**. Install flags or other telltales on plugs. Remove plugs each night and screen drain.
- F. Moisture susceptible materials must be stored above ground and protect with waterproof coverings.
- G. All traces of piled bulk materials must be removed and the job site will be returned to its original condition upon completion of the work.

#### 1.11 SAFETY

The roofing contractor shall be responsible for all means and methods as they relate to safety and shall comply with all applicable local, state and federal requirements that are safety related. **Safety shall be the responsibility of the roofing contractor.** All related personnel shall be instructed daily to be mindful of the full time requirement to maintain a safe environment for the facility's occupants including staff, visitors, customers and the occurrence of the general public on or near the site.

#### 1.12 WORKMANSHIP

- A. Applicators installing new roof, flashing and related work shall be factory trained and approved by the manufacturer they are representing.
- B. All work shall be of highest quality and in strict accordance with the manufacturer's published specifications and to the building owner's satisfaction.
- C. There shall be a supervisor on the job site at all times while work is in progress.

#### 1.13 QUALITY ASSURANCE

- A. The EPDM membrane roofing system must achieve a UL Class A and must be approved by the International Building Code (IBC).
- B. The manufacturer must have a minimum of 20 years experience in the manufacturing of vulcanized thermal set sheeting.
- C. Unless otherwise noted in this specification, the roofing contractor must strictly comply with the manufacturer's current specifications and details.

- D. Contractor will provide verification of the following; The roofing system must be installed by an applicator authorized and trained by the manufacturer in compliance with shop drawings as approved by the manufacturer. The roofing applicator shall be thoroughly experienced and upon request be able to provide evidence of having at least <u>five (5)</u> years successful experience installing single-ply EPDM roofing systems and having installed at least <u>one (1)</u> roofing application or several similar systems of equal or greater size within one year.
- E. Contractor will provide adequate number of experienced workmen regularly engaged in this type of work who are skilled in the application techniques of the materials specified. Provide at least one thoroughly trained and experienced superintendent on the job at all times roofing work is in progress.
- F. There shall be no deviations made from this specification or the approved shop drawings without the prior written approval of the specifier. Any deviation from the manufacturer's installation procedures must be supported by a written certification on the manufacturer's letterhead and presented for the specifier's consideration.
- G. Upon completion of the installation, the applicator shall arrange for an inspection to be made by a non-sales technical representative of the membrane manufacturer in order to determine whether or not corrective work will be required before the warranty will be issued. The building owner will be notified seventy-two (72) hours prior to the manufacturer's final inspection.

#### 1.14 JOB CONDITIONS, CAUTIONS AND WARNINGS

The following General Job Site Considerations must be adhered to:

- A. Material Safety Data Sheets (MSDS) must be on location at all times during the transportation, storage and application of materials.
- B. When positioning membrane sheets, exercise care to locate all field splices away from low spots and out of drain sumps. All field splices will be shingled to prevent bucking of water.
- C. When loading materials onto the roof, the Roofing Applicator must comply with the requirements of the building owner to prevent overloading and possible disturbance to the building structure.
- D. Proceed with roofing work only when weather conditions are in compliance with the manufacturer's recommended limitations, and when conditions will permit the work to proceed in accordance with the manufacturer's requirements and recommendations.
- E. Proceed with work so new roofing materials are not subject to construction traffic. When necessary, new roof sections shall be protected and inspected upon completion for possible damage.
- F. Provide protection, such as 3/4 inch thick plywood, for all roof areas exposed to traffic during construction. Plywood must be smooth and free of fasteners and splinters.
- G. The surface on which the insulation or roofing membrane is to be applied shall be clean, smooth, dry, and free of projections or contaminants that would prevent proper application of or be incompatible with the new installation, such as fins, sharp edges, foreign materials, oil and grease.
- H. New roofing shall be complete and weathertight at the end of the work day.
- I. Contaminants such as grease, fats and oils shall not be allowed to come in direct contact with the roofing membrane.

#### 1.15 WARRANTY

- A. Provide manufacturer's 15 year Total System Warranty covering both labor and material with no dollar limitation. The maximum wind speed coverage shall be peak gusts of 55 mph measured at 10 meters above ground level.
- B. Pro-rated System Warranties shall not be accepted.

#### PART 2 PRODUCTS

#### 2.01 GENERAL

- A. All components of the specified roofing system shall be products of the chosen roofing system manufacturer or accepted by the manufacturer as compatible.
- B. Unless otherwise approved by the specifier and accepted by the membrane manufacturer, all products (including insulation, fasteners, fastening plates and edgings) must be **manufactured and supplied** by the roofing system manufacturer and covered by the warranty.

#### 2.02 MEMBRANE

Furnish .060 EPDM (Ethylene, Propylene, Diene Terpolymer) with factory applied 6" seam tape in the largest sheet possible. The membrane shall conform to the minimum physical properties of ASTM D4637. When a 10 foot wide membrane is to be used, the membrane shall be manufactured in a single panel with no factory splices to reduce splice intersections.

#### 2.03 INSULATION/UNDERLAYMENT

- A. When applicable, insulation shall be installed in multiple layers. The first and second layer of insulation shall be adhered to the substrate with a Fast-100 or equal in accordance with the manufacturer's published specifications.
- B. Insulation shall be two layers of 1.5" Polyiso or equal insulation as supplied by roofing manufacturer. Minimum R-value required is (R-18.1).

#### 2.04 ADHESIVES AND CLEANERS

All products shall be furnished by membrane manufacturer and specifically formulated for the intended purpose.

- A. Bonding Adhesive:
- B. Splicing Cement: Splicing Cement
- C. Splice Tape and Primer:,TAPE and Primer
- D. Cleaning Solvent: Splice Cleaner or Weathered Membrane Cleaner.
- E. Internal seam sealant: In-Seam Sealant□□(used with adhesive splices only)
- F. External seam sealant: Lap Sealant
- G. Sealer: Pourable Sealer
- H. Insulation adhesive: FAST-100 Adhesive or equal

# 2.05 FASTENERS AND PLATES

The following fasteners (or approved equal) will be used for mechanical attachment of insulation and to provide additional membrane securement:

- HP Fasteners: A threaded, black epoxy electro-deposition coated fastener used with steel and wood A.
- Pre-Assembled ASAP Fasteners: A pre-assembled 3" diameter Plastic Plate and standard phillips B. head fastener used for insulation attachment into steel or wood decks. Installed using Olympic or
- InsulFast Fasteners: A threaded #12 fastener with #3 phillips head used for insulation attachment C.
- HP-NTB Fasteners: a non-penetrating, plastic fastener and corresponding 3" diameter plate used D. with lightweight deck substrates such as cementitious wood fiber, gypsum, and lightweight insulating
- HP Term Bar Nail-Ins: A 1-1/4" long expansion anchor with a zinc plated steel drive pin used for E. fastening the Sure-Seal, or equal, Termination Bar or Seam Fastening Plates to concrete, brick, or block walls.
- Seam Fastening Plates: A 2 inch diameter FM approved metal plate used in conjunction with RUSS F.
- RUSS (Reinforced Universal Securement Strip): A 6 or 9 inch wide, 100 foot long strip of Sure-Seal, G.

The 6 inch wide RUSS shall be utilized horizontally or vertically (in conjunction with Seam Fastening Plates) below the EPDM membrane for additional membrane securement.

The 9 inch wide RUSS shall be utilized in conjunction with metal edgings to allow the continuation of the EPDM deck membrane as flashing in accordance with Carlisle or equal details.

## 2.06 METAL EDGING AND MEMBRANE TERMINATIONS

Sure-Seal (or equal) Termination Bar: (a 1 inch wide and .098 inch thick extruded aluminum bar A. pre-punched 6 inches on center; incorporates a sealant ledge to support Lap Sealant) will be installed WALKWAYS

## 2.07

Protective surfacing for roof traffic shall be Sure-Seal (or equal) Walkway Pads (30" x 30" molded black rubber with factory rounded corners) adhered to the EPDM membrane roof with Splicing Cement or Splice Tape. OTHER MATERIALS

## 2.08

- Edging & Fascia System: Shop fabricate from .040 mil finished aluminum will be installed in ten foot A. lengths with a full cleat fastened 2' OC. No exposed fasteners accepted. B.
- Drain Inserts: All internal drains will receive a retro-fit drain that will be covered in the Total System
- Down Spouts: .032 mil finished aluminum down spouts will be installed to include elbows. C.

#### PART 3 EXECUTIONS

#### 3.01 GENERAL

- A. Contractor will comply with the manufacturer's published instructions for the installation of the membrane roofing system including proper substrate preparation, jobsite considerations and weather restrictions.
- B. Sheets will be positioned to accommodate contours of the roof deck and shingle splices to avoid bucking water.

#### 3.02 INSULATION PLACEMENT

- A. Insulation or membrane underlayment will be installed over the substrate with boards butted tightly together with no joints or gaps greater than 1/4 inch. Stagger joints both horizontally and vertically if multiple layers are provided.
- B. Insulation will be secured to the substrate with the required FAST Adhesive or equal in accordance with the manufacturer's specifications.

#### 3.03 MEMBRANE PLACEMENT AND BONDING

- A. Membrane will be unrolled and positioned without stretching. Allow the membrane to relax for approximately 1/2 hour before bonding. Fold the sheet back onto itself so half the underside of the membrane is exposed.
- B. Bonding Adhesive will be applied in accordance with the manufacturer's published instructions, to both the underside of the membrane and the substrate. Adhesive will be allowed to dry until it is tacky but will not string or stick to a dry finger touch.
  - Roll the coated membrane into the coated substrate while avoiding wrinkles. Brush down the bonded half of the membrane sheet with a soft bristle push broom to achieve maximum contact.
  - 2. Fold back the unbonded half of the membrane sheet and repeat the bonding procedure.
- C. Adjoining membrane sheets will be installe in the same manner, overlapping edges approximately 4 inches. Do not apply bonding adhesive to the splice area.

# 3.04 MEMBRANE SPLICING (6" Adhesive Splice) Membrane will be spliced as follows;

- A. Fold the top sheet back and clean the dry splice area (minimum 6 inches wide) of both membrane sheets by scrubbing with clean natural fiber rags saturated with Splice Cleaner or Primer. When using PRE-KLEENED or equal membrane, cleaning the splice area is not required unless contaminated with field dirt or other residue.
- B. Apply Splicing Cement and In-Seam Sealant in accordance with the manufacturer's specifications and roll the top sheet onto the mating surface.
- C. Roll the splice with a 2 inch wide steel roller and wait at least 2 hours before applying Lap Sealant to the splice edge following the manufacturer's requirements.
- D. Field splices without In-Seam Sealant must be overlaid with uncured flashing.

# 3.05 MEMBRANE SPLICING (6"Tape Splice) Membrane will be spliced as follows;

- A. Overlap adjacent sheets and mark a line 1/2 inch out from the top sheet.
- B. Fold the top sheet back and clean the dry splice area (minimum 6-1/2 inches wide) of both membrane sheets with primer as required by the membrane manufacturer.
- C. Where Splice Tape is not pre-applied, apply Splice Tape to bottom sheet with the edge of the release film along the marked line. Press tape onto the sheet using hand pressure. Overlap tape roll ends a minimum of 1 inch.
- D. Remove the release film and press the top sheet onto the tape using hand pressure.
- E. Roll the seam toward the splice edge with a 2 inch wide steel roller.
- F. Install a 6 inch wide section of Pressure-Sensitive Flashing or Elastoform Flashing over all field splice intersections and seal edges of flashing with Lap Sealant.
- G. The use of Lap Sealant with tape splices is optional except at tape overlaps and cut edges of reinforced membrane where Lap Sealant is required.

#### 3.06 FLASHING

- A. Wall and curb flashing shall be cured EPDM membrane. Continue the deck membrane as wall flashing where practicable.
- B. Manufacturer's typical flashing procedures for all wall, curb, and penetration flashing including metal edging/coping and roof drain applications will be followed.

#### 3.07 WALKWAYS

- A. Walkways will be installed at all traffic concentration points (such as roof hatches, access doors, rooftop ladders, etc.) and all locations as identified on the specifier's drawing.
- C. Walkways pads will be adhered to the EPDM membrane in accordance with the manufacturer's specifications.

#### 3.08 DAILY SEAL

- A. On phased roofing, when the completion of flashings and terminations is not achieved by the end of the work day, a daily seal must be performed to temporarily close the membrane to prevent water infiltration.
- B. An acceptable membrane seal in accordance with the manufacturer's requirements will be used.

#### 3.09 CLEAN UP

- A. Daily clean-up will be performed to collect all wrappings, empty containers, paper, and other debris from the project site. Upon completion, all debris must be disposed of in a legally acceptable manner.
- B. Prior to the manufacturer's inspection for warranty, the applicator must perform a pre-inspection to review all work and to verify all flashing has been completed as well as the application of all caulking.

#### **END OF SPECIFICATION**

#### **BID BOND**

			, the undersigned, Tri State Roofing & Sheet Metal Company
of	Morgantown		, as Principal, and Travelers Casualty and Surety Company of America
of	Hartford		, a corporation organized and existing under the laws of the State of
	CTwith its principal o	office in the City of	Hartford, as Surety, are held and firmly bound unto the State
of West	Virginia, as Obligee, in the p	enal sum of Five Perce	ent of Amount Bid (\$ 5% ) for the payment of which
			lves, our heirs, administrators, executors, successors and assigns.
	The Condition of the above	obligation is such that w	hereas the Principal has submitted to the Purchasing Section of the
Departn	nent of Administration a certa	in bid or proposal, attact	ned hereto and made a part hereof, to enter into a contract in writing for
			DEFK11010 -According to Plans & Specificatinos
	NOW THEREFORE,		
	(a) If said bid shall be rejec	ted, or	
horata o	(b) If said bid shall be acce	pted and the Principal sh	tall enter into a contract in accordance with the bid or proposal attached
agreeme	nd shall lumish any other por ent created by the acceptance	nos and insurance require of said bid, then this of	ed by the bid or proposal, and shall in all other respects perform the ligation shall be null and void, otherwise this obligation shall remain in full
torce and	d effect. It is expressly under	rstood and agreed that th	e liability of the Surety for any and all claims hereunder shall, in no event,
exceed t	he penal amount of this oblig	ation as herein stated.	
	The Surety for the value rec	eived hereby stimulates	and agrees that the obligations of said Surety and its bond shall be in no
way impa	aired or affected by any exten	ision of the time within w	hich the Obligee may accept such bid, and said Surety does hereby
waive no	tice of any such extension.		
	IN WITNESS WHEREOF Pr	incinal and Surety have	hereunto set their hands and seals, and such of them as are corporations
			hese presents to be signed by their proper officers, this
	_day ofSeptember		nese presents to be signed by their proper officers, this
	_ day or		
Drincinal	Corporate Seal		Tri State Roofing & Sheet Metal Company
- incipai	Corporace Seat		f / (Name of Principal)
			By (Must be President or
			Vice President)
			VICE-PRESIDENT
			(Title)
iuraly Co	rporate Seal		,
raiety Co	rporace ocal		Travelers Casualty and Surety Company of America
			(Name of Surety)
			( ) . 1 m
			By: tahuna A. Thous
			Patricia A. Moye, WV Resident Agent Attorney-in-fact

IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance. Corporate seals must be affixed, and a power of attorney must be attached.