PUERTO RICO PORTS AUTHORITY

X63 REGIONAL AIRPORT / HURRICANE MARIA DISASTER RELIEF (DR-4339-PR)
PROJECT #85447 / MPPA057 HUMACAO REGIONAL AIRPORT
DR. HERMENEGILDO ORTIZ QUIÑONEZ AIRPORT, HUMACAO, PR

BID NO. 1-56

ADDENDUM NO. 6

TO ALL BIDDERS:

This addendum forms part of the Project Manual for Bid No. 1-56. Acknowledge receipt of this Addendum in the space provided on the bid proposal form. Failure to do so may subject Bidder to disqualification.

A. **GENERAL – RESPONSE TO REQUEST FOR FURTHER INFORMATION (RFI's) SUBMITTED BY BIDDER**

1. Enclosed find a copy of the Letter from LOA Ingenieros CSP, the architectural and engineering contractor for this project, with ALL the answers and/or clarifications to Request for Further Information (RFI) submitted by Bidder for Bid 1-56. These revisions are dated November 12, 2025, for the Humacao Regional Airport project, Dr. Hermenegildo Ortiz Quiñonez (X63), Humacao, PR. See Attachment 1.

END OF ADDENDUM NO. 6

Romel Pedraza, PE
Assistant Executive Director
Planning, Engineering, Construction
& Environmental Affairs

November 12, 2025
San Juan, PR

ADDENDUM NO. 6

Attachment 1

November 12, 2025

Mr. Romel Pedraza-Claudio, PE
Assistant Executive Director for
Planning, Engineering, Construction and Environmental Affairs
Attention: Mr. Roberto Rivera Medina
Puerto Rico Ports Authority
64 Lindbergh Street
San Juan, Puerto Rico 00907

200400094

PUERTO RICO PORTS AUTHORITY (000-UEYUL-00)
HURRICANE MARÍA DISASTER RECOVERY-SECTOR 7
PROJECT #85447/MPPA057 HUMACAO REGIONAL AIRPORT (HUC)

RE: BID NO. 1-56, RESPONSE TO RFI OF OCTOBER 30, 2025

Dear Mr. Rivera Medina:

We are responding to the request for information for the above-referenced bid. Proposer question is the following:

> *"…Uno de nuestros subcontratistas nos hace la siguiente pregunta Según el breakdown, el sistema de techo es TPO y según las especificaciones SBS. Favor de aclarar cuál prevalece…"*

The response is thermoplastic PVC. A technical specification is included as part of the response.

Should you have any questions or need further information, you may me contact me at lortiz@loaingenieros.com or mobile 787-382-7782.

Cordially,

Ladislao Ortiz, Jr., P.E.
LOA Ingenieros, CSP

LO/JL

Enclosures (1): Section 075001 Thermoplastic Single Ply Roofing

c: E. Miranda-Gvelop
W. Amaro-Gvelop

SECTION 075001-THERMOPLASTIC SINGLE PLY ROOFING

PART 1 - GENERAL CONDITIONS

1.01 DESCRIPTION

A. Scope: To install a complete thermoplastic PVC feltback field membrane including membrane flashings and other related roofing components directly onto a concrete deck.

B. Related Work: The work includes but is not limited to the installation of:
1. Substrate Preparation
2. Roof Drains and Overflows Scuppers
3. Roof Membrane and Adhesive
4. Adhesive for Flashings
5. Roof Membrane Flashings
6. Roof Expansion Joints
7. Walkways
8. Metal Flashings
9. Sealants

C. Upon successful completion of work the following warranties may be obtained:
1. Manufacturer's 20 Year NDL Warranty
2. Roofing Applicator's 5 Year Labor Warranty

1.02 QUALITY ASSURANCE

A. This roofing system shall be applied only by a roofing applicator authorized prior to bid by the single ply membrane manufacturer.

B. The manufacturer's Technical Service Representative will review the roof system installed for the System Warranty. Roofing system will be accepted only when the roof system is 100% completed including all punch list items.

C. All work pertaining to the installation of membrane, flashings, and accessories shall only be completed by Applicator authorized by membrane manufacturer in those procedures.

D. Roofing membrane manufacturer must have a demonstrated performance history of producing PVC roof membranes no less, in duration of years, than the warranty duration specified.

E. Roofing membrane and membrane flashings to be manufactured by membrane supplier and not private labeled.

F. Manufacturer to have a minimum ten years of experience recycling their membranes at the end of their service life back into new membrane products. Provide a minimum of five reference projects completed with new membrane produced from recycled membrane.

G. Applicable code/insurance requirements shall be identified by the Owner or Owner's representative.

1.03 SUBMITTALS

A. At the time of bidding, the Applicator shall submit to the Owner (or Representative) the following:

1. Copies of Specification.
2. Samples of each primary components to be used in the roof system and the manufacturer's current product data sheet for each component.
3. Written approval by the insulation manufacturer (as applicable) for use of the product in the proposed system.
4. Sample copy of Manufacturer's warranty.
5. Sample copy of Applicator's warranty.
6. Safety Data Sheets (SDS)

SECTION 075001-THERMOPLASTIC SINGLE PLY ROOFING

1.04CODE REQUIREMENTS

The Applicator shall submit evidence that the proposed roof system meets the requirements of the local building code and has been tested and approved or listed by an approved, codified testing organization. These requirements are minimum standards, and no roofing work shall commence without written documentation of the system's compliance.

A. System should be designed to meet the minimum wind design requirements of the applicable version of ASCE 7.

B. Factory Mutual Research Corporation (FM) - Norwood, MA
System shall be designed to meet 4470 requirements and the most recent versions of FM Global LPDS 1-28 and 1-29.

1. FM Rating 1-990

C. Underwriters Laboratories, Inc. - Northbrook, IL

1. Class A Assembly

1.05PRODUCT DELIVERY, STORAGE, AND HANDLING

A. All products delivered to the job site shall be in the original unopened containers or wrappings bearing all seals and approvals.

B. Handle all materials to prevent damage. Place all materials on pallets and fully protect from moisture.

C. Membrane rolls shall be stored lying down on pallets and fully protected from the weather with clean tarpaulins. Unvented tarpaulins are not accepted due to the potential accumulation of moisture beneath the tarpaulin which may affect the membrane weldability.

D. As a general rule all adhesives shall be stored at temperatures between 40°F (4°C) and 80°F (27°C). Read product data sheets and instructions contained on adhesive canisters for specific storage instructions.

E. All flammable materials shall be stored in a cool, dry area away from sparks and open flames. Follow precautions outlined on containers and read product Safety Data Sheets (SDS).

F. Any materials which the Owner’s representative or Membrane Manufacturer to determine damages are to be removed from the job site and replaced at no cost to the Owner.

G. Safety Data Sheets (SDS) shall be available at the job site at all times.

1.06JOB CONDITIONS

A. Only as much of the new roofing as can be made weathertight each day, including all flashing and detail work, shall be installed. All seams shall be heat welded before leaving the job site that day.

B. Temporary overnight tie-ins shall be installed at the end of each day's work and shall be completely removed (including any contaminated materials) before proceeding with the next day's work.

C. The Applicator shall follow all safety regulations as required by OSHA and any other applicable authority having jurisdiction. Working on surfaces under these conditions is hazardous. Appropriate safety measures must be implemented prior to working on such surfaces. Always follow OSHA and other relevant fall protection standards when working on roofs.

D. Where applicable, the Applicator shall arrange for pullout tests in accordance with the latest versions of the SPRI/ANSI Standard Field Test Procedures FX-1 and IA-1 for fasteners and adhesives, respectively, to verify condition of the deck/substrate and to confirm expected pullout values.

E. The PVC membrane shall not be installed under the following conditions without consulting the manufacturers Technical Dept. for precautionary steps:

1. The roof assembly permits interior air to pressurize the membrane underside.
2. Any exterior wall has 10% or more of the surface area comprised of opening doors or windows.
3. The wall/deck intersection permits air entry into the wall flashing area.

F. Special consideration should be given to construction related moisture. Sika Corporation is not responsible for damage when exposed to construction related moisture.

1.07BIDDING REQUIREMENTS

A. Pre-Bid Meeting: A pre-bid meeting shall be held with the Owner's Representative and involved trades to discuss all aspects of the project. The Applicator's field representative or roofing foreman for the work shall be in attendance.

B. Site Visit: Bidders shall visit the site and carefully examine the areas in question as to conditions that may affect proper execution of the work. All dimensions and quantities shall be determined or verified by the Applicator. No claims for extra costs will be allowed because of lack of full knowledge of the existing conditions unless agreed to in advance with the Owner or Owner's Representative.

1.08WARRANTIES

A. Membrane Warranty 20 Year NDL – No Dollar Limit Material and Labor

1. System Warranty

B. Contractor 5 Year Warranty

1.09WARRANTY DURATIONS

A. Membrane warranty shall be in effect for a 20 Year NDL duration.

PART 2 - PRODUCTS

2.01GENERAL

A. Components of the Basis of Design Roof System shall be products of Sika Corporation as indicated on the Detail Drawings and specified in the Contract Documents.

B. Consult respective product data sheets and selection guides for additional information.

2.02MEMBRANE

A. Membrane shall conform to:
1. ASTM D-4434 (latest version), "Standard for Polyvinyl Chloride Sheet Roofing". Classification: Type III.

B. PVC thermoplastic membrane

1. Type of Membrane
   a) Sikaplan Universal or approved equal

2. Membrane Thickness
   a) 60 mil (1.5 mm)

C. Color of Membrane

1. PVC Membrane and Flashings
   a) EnergySmart White

D. Typical Physical Properties

1. Refer to Product Data Sheets for physical property values.

2.03INSULATIONS / ROOF BOARDS

A. Insulation Not Required for this project.

2.04ATTACHMENT COMPONENTS

A. Membrane Adhesive

1. Sarnacol 2121 Adhesive: Water-based adhesive used to attach membrane.

B. Insulation / Roof Board Attachment Plates

1. Non-Insulated Concrete Deck

2.05FLASHING MATERIALS

A. Wall / Curb Flashing

1. PVC Universal Membrane
2. G 459 Flashing Membrane: For use over residual asphalt or other contaminated surfaces.
3. Detail Membrane
4. Sarnacol 2170 Adhesive: Solvent-based reactivating adhesive used to attach membrane to flashing substrate.
5. Sarnaclad: 24 gauge, G90 galvanized steel with PVC-coating on one side for heat-weldability shop fabricated to meet project requirements.

B. Perimeter Edge Flashing

1. Metal Clad: 24 gauge, G90 galvanized steel with PVC-coating on one side for heat-weldability. shop fabricated to meet project requirements.
2. Hickman Edge Systems: Factory manufactured perimeter edge metal system supplier. See section 077110.
3. Metal-Era Edge Systems: Factory manufactured perimeter edge metal system supplier. See section 077110.

C. Miscellaneous PVC Membrane Flashing

1. Sarnacircles: Round circle patch.
2. Sarnacorners – Inside/Outside: Injection molded inside/outside corner.
3. Sarnastack Universal: Injection molded stack/pipe boot to flash pipes, vent stacks and cylindrical penetrations.

4. Sarnastack Split A, B, C: Prefabricated stack/pipe boot open along one side to flash pipes, vent stacks and cylindrical penetrations when access is obstructed.

5. Sikaplan Termination Bar: 3/4" wide extruded aluminum bar used to terminate Sikaplan roofing membranes at walls and edges.

6. Sarnadrain with U-Flow: Seamless one-piece heavy-duty aluminum drain with a coated flange for hot-air welding of Sikaplan membranes.

7. Liquid Flashing Primer: Two-component polymethyl methacrylate-based (PMMA) primer used to promote the adhesion of Liquid Flashing SW and Liquid Flashing WW over wood and concrete surfaces.

8. Liquid Flashing Fleece: Non-woven, needle-punched polyester fleece used as the reinforcement for Sika's Liquid Flashing details.

9. Liquid Flashing Catalyst: Reactive agent based on dibenzoyl peroxide to induce curing of Sika's Liquid Flashing SW, Liquid Flashing WW, and Liquid Flashing Primer when mixed.

10. Liquid Flashing SW (summer-grade white)
    Two-component polymethyl methacrylate-based (PMMA). The ambient temperature at application must be between 59°F (15°C) and 104°F (40°C). The surface temperature at application must be between 59°F (15°C) and 122°F (50°C).

11. Sikalastic EP Primer/Sealer: Two-component epoxy primer used to promote the adhesion of Sikalastic 641 Lo-VOC to the membrane, metal, Sarnaclad metal, wood, and concrete surfaces.

12. Sikalastic 641 Lo-VOC: One-component, moisture-triggered, aliphatic polyurethane resin. The ambient and surface temperatures at application must be between 41°F - 95°F (5°C - 35°C).

13. Sika Fleece 140: Non-woven, needle-punched polyester fleece reinforcement used with Sikalastic 641 Lo-VOC.

14. Sika Reemat Premium: Surface treated, randomly oriented glass fiber reinforcement used with Sikalastic 641 Lo-VOC.

15. Sika Joint Tape SA: Self-adhering polymeric rubberized tape with woven polyester facer used to smooth and locally reinforce transitions.

2.06EXPANSION JOINT

A. Emseal RoofJoint expansion joint System: Dual-seal, double-flanged, extruded nitrile PVC (NPVC) alloy system for sealing roof expansion joints.

2.07WALKWAY PROTECTION

A. Sarnatred-V: Polyester reinforced, 96 mil (2.4 mm) thick, weldable membrane with surface embossment similar to a chevron pattern. Used as a protection layer from rooftop traffic.

B. Sikaplan Walkway-20: PVC, 79 mil (2.0 mm) thick, weldable membrane with pyramidal surface embossment. Used as a protection layer from rooftop traffic.

C. Crossgrip XTRA: Rolled-out walkway protection mat loose laid on top of completed roof assemblies consisting of 5/8" (16 mm) thick flexible PVC with cross-directional textured ribs. Available in white, gray, and yellow.

2.08 MISCELLANEOUS ACCESSORIES

A. Aluminum Tape: 2” (51 mm) wide pressure-sensitive aluminum tape used as a separation layer between small areas of asphalt contamination and the membrane and as a bond-breaker under the coverstrip at Sarnaclad joints.

B. SikaLastomer-65: Tape used to seal membrane at penetrations and securements, metals, or Vapor Retarder PE 10.

C. Perimeter Warning Tape: 2” (51 mm) wide yellow tape with a release liner used in required areas. Exceeds reflectivity 3 requirements and Federal spec. L-S-300, Class 1.

D. Membrane Cleaner 100: Used to clean roof membrane.

E. Sarnastop: 1” wide extruded aluminum, low profile bar used with certain Sarnafasteners to secure membrane to the roof deck or to walls/curbs at terminations, penetrations and at angle changes of the substrate.

2.09 SEALANTS AND PITCH POCKET FILLERS

A. Sikaflex-1a: Moisture-cured, one-component polyurethane-based, non-sag elastomeric sealant used in wall, curb and drain terminations. It is also used as a sealant at pipe penetrations and under certain metal flashings. Sikaflex-1a can be used as a pourable sealer pocket filler.

B. Sarnafiller: Two-component urethane adhesive for pitch pocket toppings.

2.10 MISCELLANEOUS FASTENERS AND ANCHORS

All fasteners, anchors, nails, straps, bars, etc. shall be post-galvanized steel, aluminum or stainless steel. Mixed metal type components shall be assembled in such a manner as to avoid galvanic corrosion. Fasteners for attachment of metal to masonry shall be expansion type fasteners with stainless steel pins.

2.11 RELATED MATERIALS

A. Wood / Metal Nailer: Code compliant wood nailers or approved engineered metal roof nailers shall be installed at the perimeter of the entire roof and around such other roof projections and penetrations as specified on Project Drawings. Thickness of nailers must match the height of the insulation and roof board to achieve a smooth transition.

B. Plywood: When bonding directly to plywood, a minimum 1/2” (13 mm) CDX (C side out), smooth-surfaced exterior grade plywood with exterior grade glue shall be used. Rough-surfaced plywood or high fastener heads will require the use of Sarnafelt behind the flashing membrane. Plywood shall have a maximum moisture content of 19% by weight on a dry weight basis.

PART 3 - EXECUTION

3.01 PRE-CONSTRUCTION CONFERENCE

The Applicator, Owner's Representative/Designer and Manufacturer(s) shall attend a pre-construction conference.

3.02 SUBSTRATE CONDITION

A. Applicator shall be responsible for acceptance or provision of proper substrate to receive new roofing materials.

B. Applicator shall verify that the work done under related sections meets the following conditions:
1. Roof drains and scuppers have been reconditioned or replaced (as applicable) and installed properly.
2. Roof curbs, nailers, equipment supports, vents and other roof penetrations are properly secured and prepared to receive new roofing materials.

C. The substrate shall be clean, smooth, dry, free of water, free of flaws, sharp edges, loose and foreign material, oil, grease and other contaminants. Roofing shall not start until all defects have been corrected.

3.03 SUBSTRATE PREPARATION

The roof deck and existing roof construction must be structurally sound to provide support for the new roof system. The Owner's Representative shall ensure that the roof deck is secured to the structural framing according to local building code or insurance requirements and in such a manner as to resist all anticipated loads in that location.

A. New Construction

1. Poured Structural Concrete Deck: The surface shall be dry and free of moisture, have a level finish, and shall be free of dust, excess moisture, oil-based curing agents and loose debris. Under no circumstances shall a sealer be used in lieu of a curing agent. Sharp ridges or other projections above the surface shall be removed before roofing. In accordance with the ICRI Technical Guideline No. 310.2R-2013, newly poured concrete surfaces may be finished by forming, wood float, steel or power trowel, or broom finished to meet a concrete surface profile (CSP) of 2 – 5.

2. Poured (Insulating) Concrete Substrate: The surface shall be installed per concrete manufacturers' guidelines. The wet and dry densities shall be in accordance with the manufacturer's requirements. Sharp ridges or other projections above the surface shall be removed before roofing.

3. Precast / Prestressed Concrete Panel Deck: The surface shall have a smooth and level finish and shall be free of dust, moisture, oil or loose debris. All joints between precast units shall be grouted. Any differentials in height between precast units shall be feathered for a smooth transition. Sharp ridges or other projections above the surface shall be removed before roofing.

3.04 WOOD / METAL NAILER INSTALLATION

A. Install continuous code compliant wood or engineered metal nailers at the perimeter of the entire roof and around roof projections and penetrations as shown on the Detail Drawings.

B. Wood or engineered metal nailers, or wood blocking for penetrations, curbs, or snow protection systems shall be installed prior to the installation of the roof membrane whenever possible.

3.05 THERMOPLASTIC MEMBRANE INSTALLATION

The surface of the insulation, roof board, or substrate shall be inspected prior to installation of the roof membrane. The substrate shall be clean, dry, and free from debris and smooth with no surface roughness or contamination. Broken, delaminated, wet or damaged boards shall be removed and replaced.

General Criteria

1. Membrane shall be fully adhered to withstand project specified design pressures.
2. Tack welding of full or half-width rolls for temporary restraint during installation is not permitted and may result in voiding of manufacturer's warranty.
3. Sheet layout shall not buck water.
4. Hot-air weld overlaps according to manufacturer's recommendations. Seam test cuts shall be taken at least 3 times per day.
5. Refer to the Technical Roofing Applicator Handbook for detailed installation instructions.

A. Waterbase Adhesive:

1. Apply adhesive direct to substrate, rate may vary depending on porosity of substrate. Do not allow adhesive to skin-over or surface-dry prior to installation of Sarnafil membrane.

2. Refer to individual Product Data Sheets (PDS) and *Adhered Systems: Water Based Adhesive Installation* sections of the manufacturers Roofing Applicator's Handbook for detailed installation instructions.

6. Refer to individual Product Data Sheets (PDS) and *Adhered Systems: Urethane Adhesive Installation Using Feltback Membrane* section of the Roofing Applicator's Handbook for detailed installation instructions.

3.06HOT-AIR WELDING OF MEMBRANE OVERLAPS

A. All membrane overlaps shall be hot-air welded. The membrane shall be clean and dry prior to hot-air welding.

B. Field membrane overlaps for automatic machine-welding will vary in width depending on the plate and fastener combination used. A minimum of 4" (10.2 cm) wide overlap is required when hand-welding details.

C. 1" (25 mm) wide cross-section samples of welded seams shall be taken at least two times a day, once in the morning and once in the afternoon.

D. Refer to *Welding* section of the manufacturers Roofing Applicator Handbook for detailed installation instructions.

3.07MEMBRANE FLASHING INSTALLATION

All flashings shall be installed concurrently with the roof membrane as the job progresses. No temporary flashings shall be allowed without the prior written approval of the Owner's Representative and Membrane Manufacturer. Approval shall only be for specific locations on specific dates. If any water is allowed to enter under the newly completed roofing, the affected area shall be removed and replaced at the Applicator's expense. Flashing shall be adhered to compatible, dry, and smooth surfaces free of dirt, dust, and debris. Use caution to ensure adhesive fumes are not drawn into the building.

A. All flashings should extend a minimum of 8" (20.3 cm) above finished roofing level. Submit requests for exceptions in writing to the Owner's Representative and manufacturers Technical Department for signed approval.

B. No bitumen shall be in contact with the membrane.

C. All flashing membranes shall be mechanically fastened along the counter-flashed top edge with Sarnastop or approved Sarnadisc at 6 - 12" (15.2 – 30.5 cm) on center.

D. Flashings shall be terminated according to manufacturer's recommended details.

E. All adhered flashings that exceed 45" (1.14 m) in height shall receive additional securement, unless applying Sarnafil G 410 SA membrane to plywood, DensDeck Prime, concrete block, or concrete with a CSP of 1 – 4 according to ICRI Technical Guideline No. 310.2R-2013.

F. Refer to *Typical Flashing Procedures* section of the Roofing Applicator Handbook for detailed installation instructions.

3.08LIQUID APPLIED FLASHING INSTALLATION

A. Application Guidelines: Liquid applied flashing resins and primer have a strong odor. Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents and other means of ingress for odors and/or vapors into the building/structure during product application and cure. Refer to individual Product Data Sheets (PDS), Technical Bulletins 19-02 and 23-02, and the *Liquid Flashing Procedures* section of PVC Roofing Applicator Handbook for detailed installation instructions.

B. Installation Notes
1. Prepare the surface to be flashed by cleaning the area to like-new condition.
2. Pre-cut vertical and horizontal liquid flashing reinforcement to fit around the penetration and onto the roof membrane surface allowing for the required overlaps.

3. Once the edges of the reinforcement are determined, mark a line ¼" – ½" (6 mm – 13 mm) beyond the edge of the reinforcement and apply painter's tape to provide a clean edge.
4. Prime the surface if required at the recommended rate. Pull the painter's tape while wet to achieve a clean edge. Allow the primer to cure and re-mask the area before applying resin.
5. Thoroughly mix the resin if required and apply to the surface at the required thickness.
6. Embed the reinforcement into the wet resin. Apply additional resin to completely saturate the reinforcement as required. Pull painter's tape while wet to achieve a clean edge.

3.09 METAL BASE FLASHINGS / EDGE METAL INSTALLATION

A. All flashings shall be installed concurrently with the roof membrane as the job progresses. No temporary flashings shall be allowed without the prior written approval of the Owner's Representative and Manufacturer. Approval shall only be for specific locations on specific dates. If any water is allowed to enter under the newly completed roofing due to incomplete flashings, the affected area shall be removed and replaced at the Applicator's expense.

B. Metal details, fabrication practices and installation methods shall conform to the applicable requirements of the following:
   1. ANSI SPRI ES-1 (latest issue).
   2. Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA) - latest issue.

C. Pre-formed metal flashing shall be installed according to metal manufacturer's guidelines.

3.10 ROOFJOINT EXPANSION JOINT

A. Clean the joint opening of all contaminants immediately prior to installation of expansion joint system. Repair spalled, irregular or unsound joint surfaces using accepted industry practices for repair of the substrates in question. Remove protruding roughness to ensure joint sides are smooth.

B. Install RoofJoint expansion joint and accessories according to joint system manufacturer's most current requirements.
   1. Secure roofing membrane up to expansion joint opening.
   2. Lower RoofJoint into expansion joint gap so that it achieves a level and firm fit with the rooftop surface.
   3. Hot-air weld lower RoofJoint flange to installed roofing membrane surface.
   4. Place termination bar on top of lower RoofJoint flange. Install provided fasteners through pre-drilled holes in termination bar. Tighten until termination bar is snug with lower flange. Do not overtighten.
   5. Lap upper RoofJoint flange over termination bar and hot-air weld to roofing membrane surface.
   6. Verify and document weld strength of seams minimum once daily via mockup vs in-field destructive testing.
   7. Test lap edges with probe to verify seam weld continuity.
   8. If any tears or voids in lapped seams are found repair using appropriate approved technique.

3.11 WALKWAY INSTALLATION

A. Sarnatred-V: Probe all existing deck membrane seams which are to be covered. Install walkway in straight lines by either adhering and welding or just welding to the field membrane.

B. Walkway-20: Probe all existing deck membrane seams which are to be covered by Walkway. Install walkway in straight lines by either adhering and welding or just welding to the field membrane.

C. Crossgrip XTRA: Probe all existing membrane seams which are to be covered by Crossgrip XTRA. Crossgrip XTRA is installed loose laid. Connecting clips are available for attaching roll ends together.

D. Refer to individual Product Data Sheets (PDS) and *Walkway Installation* section of the Applicator Handbook for detailed installation instructions.

3.12 TEMPORARY CUT-OFF

A. All flashings shall be installed concurrently with the roof membrane in order to maintain a watertight condition as the work progresses. All temporary cut-offs shall be constructed to provide a watertight seal. The new membrane shall be carried into the temporary cut-off. Temporary cut-off shall be sealed to the deck or substrate so that water will not be allowed to travel under the new or existing roofing. When work resumes, the contaminated membrane shall be cut out.

B. If any water is allowed to enter under the newly completed roofing, the affected area shall be removed and replaced at the Applicator's expense.

3.13 COMPLETION

A. Prior to demobilization from the site, the work shall be reviewed by the Owner's Representative and the Applicator. All identified defects and any non-compliance with the Specifications shall be documented in a punch list. The Applicator is required to promptly address and resolve these items to the satisfaction of both the Owner's Representative and Membrane Manufacturer before demobilization proceeds.

B. All Warranties referenced in this Specification shall have been submitted and have been accepted by the owner or owner’s representative at time of contract award.