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ADDENDUM 02

Hoover Middle School Portable Classroom Updates

Bid # 2025-9

INDEX OF ADDENDA TRANSMITTED

SCOPE OF WORK:

Additions made to the scope of work

1. Number of lights inside each portable classroom.
2. Roofing specifications added.

Questions relating to an asbestos report:

- Per our roofing specialist, there is no asbestos report needed due to the portables having metal roofs.

Questions relating to three add alternates:

- It is mandatory for a price to be listed for each add alternate or bid is considered incomplete.

Hoover Middle School Portable Classroom Updates

BID # 2025-9

- Project Advertising: February 19, 2026 and February 26, 2026
- Mandatory Job Walk: March 4 at 10:00 a.m.
- Bids Due: Wednesday, March 25, 2026 at 2:00 p.m.
- Projected Award Date: April 14, 2026

SCOPE OF WORK

Room 30

- Refinish Ramp – *SEE PROJECT SPECIFICATION*
- Replace Roof – *SEE PROJECT SPECIFICATIONS*
- Replace / Paint all siding (Exterior)
- New Carpet/baseboard
- New Ceiling Tiles
- New Lights. Total of 12.
- New Tackboard
- New Window Coverings
- Floor leveling / Float
- New Whiteboard
- Paint metal ceiling grid
- Electrical / Data / Audio-Video Connections *See IT Specs included in Addendum No. 1*

Room 31

- Refinish Ramp – *SEE PROJECT SPECIFICATION*
- New Whiteboard
- New Window Coverings
- New Ceiling Tiles
- New Lights. Total of 24.
- New Carpet / baseboard
- Paint Tackboard
- Paint metal ceiling grid
- Electrical / Data / Audio-Video Connections *See IT Specs included in Addendum No. 1*

Room 32

- Refinish Ramp – *SEE PROJECT SPECIFICATION*
- New Whiteboard
- New Window Coverings
- New Ceiling Tiles
- New Lights. Total of 24.
- New Tackboard (East, West, and South Walls only)
- Floor Leveling / Float
- New Carpet/baseboard
- Paint metal ceiling grid
- Electrical / Data / Audio-Video Connections *See IT Specs included in Addendum No. 1*

Room 33

- Refinish Ramp – *SEE PROJECT SPECIFICATION*
- New Window Coverings
- New Ceiling Tiles
- New Lights. Total of 24.
- New Carpet/baseboard
- Paint metal ceiling grid
- Electrical / Data / Audio-Video Connections*See IT Specs included in Addendum No. 1*

Add Alternates:

- (1) Reroof Room 31
- (2) Reroof Room 32
- (3) Reroof Room 33

PROJECT SPECIFICATIONS

- Refinish Ramp - Marine Grade Plywood Anti-Slip Epoxy
- Whiteboards – 16' x 5' with full-length pen shelf (magnetic)
 - Link to Markerboard with 1" map rail **Must be equivalent to this style**
- Carpet Tiles – Tarkett Aftermath II (Tapestry 23512)
- Lights – Lithonia Lighting LED C Panel CPX-2x4-ALO80SWW7
- Window Coverings – Hunter Douglas Roller & Screen Shades AGO – Agora 0% 832-Hadrian Wall
- Tackboard – Chatfield Clarke – Belair Misty Grey (8.5' floor to ceiling)
- Roofing Info: *SEE SUMMARY OF WORK, PROJECT DRAWINGS, and ROOFING SPECS.*
- Floor Leveling/Float – UZIN NC 150 F, Premium Plus – Fiber Reinforced Self-Leveling Compound
- HDMI cables are to be 'ACTIVE' cables for all portables.

SECTION 07 54 20
KEE MEMBRANE ROOFING

1. GENERAL

1.1. RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including the Conditions of the Contract and Division 01 Specification Sections apply to this Section.

1.2. SUMMARY

- A. Section includes an adhered Solar Bright FB 80 mil Evaloy KEE single ply roofing system one layer of 1/2" Dens Dek prime and all associated details required by the manufacturer for a complete warrantable roofing assembly.
- B. Includes removal and disposal of existing roofing system(s), insulation board, flashings, sheet metal items, copings, etc. for a complete prepared roof surface to receive the new roofing system.
- C. See section 011100 Summary of Work for a detailed scope of work.
- D. Related Work Specified Elsewhere:
 - 1. Section 06: Rough Carpentry
 - 2. Section 07: Roofing Related Sheet Metal
 - 3. Section 07: Sealants

1.3. SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation instructions.
- C. Shop Drawings: Submit shop drawings including installation details of roofing, flashing, fastening, insulation and vapor barrier, including notation of roof slopes, tapered insulation design if applicable, and fastening patterns of insulation and membrane, prior to job start.
- D. Design Pressure Calculations: Submit design pressure calculations for the roof area in accordance with ASCE 7 and local Building Code requirements. Include a roof system attachment analysis report, certifying the system's compliance with applicable wind load requirements before Work begins. Report shall be reviewed by a Professional Engineer registered in the State of the Project who has provided roof system attachment analysis for not less than 5 consecutive years.

- E. LEED Submittals: Provide documentation of how the requirements of Credit will be met:
 - 1. List of proposed materials with recycled content. Indicate post-consumer recycled content and pre-consumer recycled content for each product having recycled content.
 - 2. Product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content.
 - 3. Product reflectivity and emissivity criteria to qualify for one point under the LEED credit category, Credit 7.2, Landscape & Exterior Design to Reduce Heat Island - Roof.
- F. Verification Samples: For each membrane product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
- G. Provide written certification from the roofing system manufacturer certifying the applicator is currently authorized to install the specified roof system and ability to provide the specified warranty.
- H. Sample Warranty: Provide an unexecuted copy of the warranty specified for this project clearly stating the terms required of the owner, contractor, and manufacturer.
- I. Manufacturer's Certificates: Provide to certify products meet or exceed specified requirements.
- J. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic inspection and maintenance of all completed roofing work. Provide product warranty executed by the manufacturer. Assist Owner in preparation and submittal of roof installation acceptance certification as may be necessary in connection with fire and extended coverage insurance on roofing and associated work.
- K. Any material submitted as equal to or better than the specified material must be accompanied by a report signed and sealed by a professional engineer licensed in the state in which the installation is to take place. This report shall show that the submitted equal meets the Design and Performance criteria in this specification. Substitution requests submitted without licensed engineer stamp will be rejected for non-conformance.

1.4. QUALITY ASSURANCE

- A. Perform Work in accordance with NRCA Roofing and Waterproofing Manual and all manufacturer's instructions.
- B. Manufacturer Qualifications: Company specializing in manufacturing products specified with documented ISO 9001 certification and minimum of twelve years of documented experience and must not have been in Chapter 11 bankruptcy during the last five years.
- C. Installer Qualifications: Company specializing in performing Work of this section with minimum five years documented experience and a certified Pre-Approved Garland Contractor.
- D. Installer's Field Supervision: Maintain a full-time Supervisor/Foreman on job site during all phases of roofing work while roofing work is in progress.
- E. Product Certification: Provide manufacturer's certification that materials are manufactured in the United States and conform to requirements specified herein, are chemically and physically compatible with each other, and are suitable for inclusion within the total roof system specified herein.

- F. Source Limitations: Obtain all components of roof system from a single manufacturer. Secondary products that are required shall be recommended and approved in writing by the roofing system Manufacturer. Upon request of the Architect or Owner, submit Manufacturer's written approval of secondary components in list form, signed by an authorized agent of the Manufacturer.
- G. Manufacturers Participation:
 - 1. Pre-Application Job-Site Conference: Arranged by Applicator, with a minimum of 1 week advance notice; for review of storage, handling, protection, surface preparation, materials and application specifications; attended by applicator, his foreman, Architect, inspector, and manufacturer's agent.
 - 2. Source Quality Control: Manufacturer shall have in place a documented, standardized quality control program such as ISO-9001.
 - 3. When the project is in progress, the roofing system manufacturer will provide the following:
 - a. Report progress and quality of the work as observed.
 - b. Provide job site inspections a minimum of two (2) days a week throughout the course of construction.
 - c. Provide electronic inspection reports submitted weekly to the Owner and/or Architect.
 - d. Report to the Architect and/or Owner in writing any failure or refusal of the Contractor to correct unacceptable practices called to the Contractor's attention.
 - e. Confirm after completion that manufacturer has observed no application procedures in conflict with the specifications other than those that may have been previously reported and corrected.

1.5. WARRANTY

- A. Manufacturer: Provide a fifteen (15) year warranty on manufacturers form. Warranty shall period shall begin on date of acceptance of roofing by Owner.
- B. Manufacturer will provide the following services at years 2, 5, 10 & 15 at no cost to the owner.
 - 1. Inspection by a technical service representative and delivery of a written inspection report documenting roof conditions.
- C. Provide one warranty by a single approved manufacturer for membrane roof areas, standing seam metal roofing, coping metal systems and transitions between the material types.
- D. Installer: Provide in required form for a period of Five (5) years from date of acceptance by Owner.
- E. Special Project Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering the Work of this Section, including all components of roofing system such as membrane roofing, base flashing, roof insulation, fasteners, cover boards,

substrate boards, vapor retarders (where included) , and walkway products, for the following warranty period:

1. Correct defective Work within a five (5) year period after Date of Substantial Completion.

2.PRODUCTS

2.1. KEE SINGLE-PLY ROOFING

A. Acceptable Products:

1. Acceptable Manufacturer: The Garland Company, Inc.; 3800 E. 91st St., Cleveland, OH 44105.
Local Representative: Rich Jones Phone: (559) 647-1196. rjones@garlandco.com Web Site: www.garlandco.com.
2. Requests for substitutions will not be considered for this project.
3. Roofing Membrane:
 - a. Solar Bright Fleeceback 80 Mil Membrane (ASTM D 751)
 - b. Membrane Thickness: (ASTM D 751) 80 mil nominal
 - c. Breaking Strength (ASTM D 751): 325X324 lbf/in
 - d. Tearing Strength (ASTM D 751): 89X109 lbf/in
 - e. Factory Seam Strength (ASTM D 751) 295 lbf
 - f. Solar Reflectivity (ASTM C 1549) 82% (White)
 - g. Emissivity (ASTM C 1371) 91% (White)
 - h. SRI (ASTM E1980) 109 (White)

B. The Products specified are intended and the Standard of Quality for the products required for this project. If other products are proposed the bidder must disclose in the bid the manufacturer and the products that they intend to use on the Project. If no manufacturer and products are listed, the bid may be accepted only with the use of products specified.

1. Bidder will not be allowed to change materials after the bid opening date.
2. If alternate products are included in the bid, the products must be equal to or exceed the products specified. Supporting technical data shall be submitted to the Architect/ Owner for approval prior to acceptance.
3. In making a request for substitution, the Bidder/Roofing Contractor represents that it has:
 - a. Personally investigated the proposed product or method, and determined that it is equal or superior in all respects to that specified.
 - b. Will provide the same guarantee for substitution as for the product and method specified.
 - c. Will coordinate installation of accepted substitution in work, making such changes as may be required for work to be completed in all respects.
 - d. Will waive all claims for additional cost related to substitution, which consequently become apparent.
 - e. Cost data is complete and includes all related cost under his/her contract or other contracts, which may be affected by the substitution.
 - f. Will reimburse the Owner for all redesign cost by the Architect for accommodation of the

- substitution.
4. Architect/ Owner reserves the right to be the final authority on the acceptance or rejection of any or all bids, proposed alternate roofing systems or materials that has met ALL specified requirement criteria.
 5. Failure to submit substitution package, or any portion thereof requested, will result in immediate disqualification and consideration for that particular contractors request for manufacturer substitution.

2.2. UNDERLAYMENT

- A. Slip Sheet: HPR Premium Glasbase Sheet; Install one layer of HPR Premium Glasbase sheet shingled uniformly to achieve one ply over the entire roof substrate. Shingle in direction of the slope of the roof to shed water.
 1. HPR Premium Glasbase by The Garland Company

2.3. NAILERS

- A. Douglas Fir; No. 2 or better, pressure treated; no creosote or asphalt preservatives allowed.

2.4. ROOF BOARD INSULATION

- A. Roof Insulation Base Layer 4' x 8' max dimension: N/A
 1. Thickness: Match flute depth on metal roof deck buildings.
 2. R-Factor: Varies
 3. Attachment Method: Loose Laid
- B. Roof Insulation top layer: Georgia Pacific Dens Dek Prime Roof Board.
 1. Max Dimension: 4' x 8'
 2. Thickness: 1/2" at all horizontal surfaces and 1/4" inch at all vertical surfaces.
 3. Attachment Method: Mechanically attached with manufacturers #15 screws and 3" insulation plates, 16 per 4'x8' sheet.
- C. Tapered Insulation: Tapered roof board insulation to be used as required for tapered insulation system or tapered crickets. Hunter or equal, ASTM C 1289, Type II, Class 1, Grade 2, (20psi) polyisocyanurate insulation board.
 1. Field Slope: ___N/A___ inch per foot.
 2. Sump Slope: 1/2" inch per foot.
 3. Cricket Slope: 1/2" inch per foot as needed for crickets and proper slope.

4. Attachment Method: Mechanically Attached or Adhered in Insuloc insulation Adhesive by The Garland Company.

2.5. FASTENERS

- A. Heavy duty #15 threaded fastener with a #3 Phillips drive used with barbed fastening plate to secure the insulation board to the structural decking. It is used on minimum 22 gauge steel decks or minimum 15/32" CDX plywood decks. It is also designed to offer an optimum combination of driving performance, back-out and corrosion resistance with excellent pullout performance.
 1. TruFast #15 EHD Roofing Fasteners
- B. Fastening Plate: A 2-3/8" diameter metal barbed fastening plate used with HP-X, CD-10 or HD 14-10 Fasteners for membrane or insulation securement. This plate can be used for membrane or insulation securement.
 1. TruFast Metal Seam Plates, 2.4" barbed.
- C. Insulation Fastening Plate: A nominal 3-inch metal plate used for insulation attachment in conjunction with the appropriate fastener.
 1. TruFast Metal Insulation Plates, 3" round.

2.6. ACCESSORIES

- A. Solar Bright 80 membrane shall be used for all flashing requirements to match the field membrane and warranty expectations selected for the roofing system.
- B. Solar Bright Inside Corners: Pre-molded corner flashing for inside corners. 80 mil thickness. Color - White.
- C. Solar Bright Outside Corners: Pre-molded corner flashing for outside corners. 80 mil thickness. Color - White.
- D. Solar Bright T-Joint Covers: 40 mil thick non-reinforced PVC flashing cut into a 4.5 inch (114mm) diameter circle used to seal step-offs at splice intersections.
- E. Solar Bright Pipe Flashings: A pre-molded flashing and clamping ring used for pipe penetrations. Available for 1 inch to 6 inch (25 - 152mm) diameter pipes.
- F. Solar Bright Split Pipe Seals: Pre-fabricated flashing consisting of 80 mil reinforced Membrane for pipes 1 inch to 6 inch (25 - 152mm) in diameter. A split (cut) and overlap tab are incorporated to allow the pipe seal to be opened and wrapped around the pipe when it is not possible to pull a standard pipe flashing over a round penetration.
- G. Solar Bright Non-Reinforced Flashing: 80 mil thick rolls 12 inches and 24 inches wide. Used for inside/outside corners and field fabricated pipe flashings when use of pre-molded accessories is not feasible.

- H. Solar Bright Heat Weldable Walkway Rolls: offering superior tear, puncture and weather resistance and designed to protect membrane in those areas exposed to repetitive foot traffic or other hazards. Walkway material may be heat welded to membrane using an automated heat welder or hand held heat welder. Walkway Rolls are 36 inches (914mm) wide by 60 feet (18.3 M) long and are nominal 80 mills thick.
- I. Single ply Coated Sheet Metal: Provide where flashing, gravel stops and sheet metal are in contact with single ply roofing membrane. Install 22 gauge cleat all all edge metal conditions.

2.7. SOLVENT, SEALANT, AND ADHESIVES

- A. As recommended by manufacturer.
- B. Horizontal Applications (field); SolarBright FB Substate Adhesive 7003.
 - 1. Weight: 8.4lbs
 - 2. VOC: 3
 - 3. Color: Black
 - 4. Solids 70%
- C. Vertical Applications (walls & curbs); SolarBright Low VOC Bonding Adhesive: Low VOC solvent-based contact adhesive that allows bonding of membrane to various porous and non-porous substrates.
 - 1. Weight: 7.4lbs
 - 2. VOC: 199
 - 3. Color: Amber
 - 4. Solids: 20%

3.EXECUTION

3.1. EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- D. Do not commence Work until all other work trades have completed jobs that require them to traverse the deck on foot or with equipment.

- E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2. PREPARATION

- A. Do not apply wet roofing, on wet application surface, or when temperature of deck less than 50 degrees F.
- B. Provide entire roof system including treated wood nailers, Single-ply coated sheet metal, and coordination of items such as roof drains, sumps, jacks, etc.
- C. Protect adjoining materials from stains particularly around perimeter of building; prevent debris from clogging roof drains.
- D. Deck surface swept clean and dry; keep free of loose and foreign materials.

3.3. INSTALLATION

- A. Install in conformance with referenced standards, manufacturer's written directions, as shown, and as specified.
 - 1. Install insulation or membrane underlayment over the substrate with boards butted tightly together with no joints or gaps greater than 1/4 inch (6 mm). Stagger joints both horizontally and vertically if multiple layers are provided.
 - 2. Secure insulation to the substrate with the required mechanical fasteners or insulation adhesive in accordance with the manufacturer's current application guidelines and as specified in section 07 54 20, 2.4, A, B, & C above.
 - 3. Securely attach insulation to the roof deck. Attachment must have been successfully tested to meet or exceed the calculated uplift pressure required by Factory Mutual (FM I-90) & the International Building Code (ASCE-7) or ANSI/SPRI WD-1.
- B. Application; Adhered system over roof deck
 - 1. Position SolarBright membrane over the acceptable substrate. Fold membrane sheet back lengthwise so half the underside of the membrane is exposed.
 - 2. Apply SolarBright Bonding Adhesive in accordance with the manufacturer's published instructions, to the exposed underside of the membrane and the corresponding substrate area. Do not apply Bonding Adhesive along the splice edge of the membrane to be hot air welded over the adjoining sheet. Allow the adhesive to dry until it is tacky but will not string or stick to a dry finger touch.
 - 3. Roll the coated membrane into the coated substrate while avoiding wrinkles. Brush down the bonded section of the membrane sheet immediately after rolling the membrane into the adhesive with a soft bristle push broom to achieve maximum contact.
 - 4. Fold back the un-bonded half of the sheet lengthwise and repeat the bonding procedures.
 - 5. Position adjoining sheets to allow a minimum overlap of 2 inches (51mm).

6. Hot-air weld the SolarBright membrane sheets using the Automatic Hot Air Welding Machine or Hot Air Hand Welder in accordance with the manufacturer's hot air welding procedures.
 7. Continue to install adjoining membrane sheets in the same manner, overlapping edges a minimum of 2 inches (51mm) and complete the bonding procedures as stated previously.
 8. Parapet Wall Covering: Install as shown, extend to full height of parapet; lap under parapet cap flashing and over wall substrate 2 inches minimum on the back side of the wall. Secure in adhesive and attach at 9" on center on the outside face to assure a completely watertight installation.
 9. Walkway: Per manufacturer's instructions and as shown on drawings. If drawings do not show walkways a minimum required will be;
 - a. A path from the main roof access point to and around all HVAC units, to and around all serviceable roof top equipment, to and around all roof hatches, to and around all access points as designated by the owner, and as needed for protection of the roofing system will have walkway installed.
 - b. All support blocking will have walkway pad installed as a protection mat.
- C. Fasteners:
1. General: Per manufacturer's recommendation; fastening length and pattern based on performance values supplied by the fastener/disc manufacturer and conforming to Factory Mutual I-90 fastening pattern.
 2. Walkway Fastening: Provide 2 inch continuous heat weld strip around perimeter of membrane. A 3" opening is to be left non-welded at the lower side of the walkway pad to allow drainage and venting.
- D. Hot Air Welding
1. All field seams exceeding 10 feet in length shall be welded with an approved automatic welder.
 2. All field seams must be clean and dry prior to initiating any field welding.
 3. Remove foreign materials from the seams (dirt, oils, etc.) with Acetone or authorized alternative. Use CLEAN WHITE COTTON cloths and allow approximately five minutes for solvents to dissipate before initiating the automatic welder. Do not use denim or synthetic rags for cleaning.
 4. All welding shall be performed only by qualified personnel to ensure the quality and continuity of the weld.
 5. Contaminated areas within a seam will inhibit proper welding and will require a membrane patch or replacement of the membrane.
- E. Hand Welding

1. The lap or seam area of the membrane should be intermittently tack welded to hold the membrane in place.
2. The back "interior" edge of the membrane shall be welded first, with a thin, continuous weld to concentrate heat along the exterior edge of the lap during the final welding pass.
3. The nozzle of the hand held hot air welder shall be inserted into the lap at a 45° angle to the lap. Once the polymer on the material begins to flow, a hand roller shall be used to apply pressure at a right angle to the tip of the hand welder. Properly welded seams shall utilize a 1-1/2 inch wide nozzle, to create a homogeneous weld, a minimum of 1-1/2 inches in width.
4. Smaller nozzles may be used for corners, and other field detailing, maintaining a minimum 1 inch weld.

F. Automatic Machine Welding

1. Follow all manufacturers' instructions for the safe operation of the automatic welder.
2. Follow local code requirements for electric supply, grounding and surge protection.
3. The use of a dedicated, portable generator is highly recommended to ensure a consistent electrical supply, without fluctuations that can interfere with weld consistency.
4. Properly welded seams shall utilize a 1-1/2 inch wide nozzle, to create a homogeneous weld, a minimum of 1-1/2 inches in width.

G. Inspection

1. The job foreman and/or supervisor shall initiate daily inspections of all completed work which shall include, but is not limited to the probing of all field welding with a dull pointed instrument to assure the quality of the application and ensure that any equipment or operator deficiencies are immediately resolved.
2. Ensure that all aspects of the installation (sheet layout, attachment, welding, flashing details, etc.) are in strict accordance with the most current Solar Bright Roofing Systems Specifications and Details.
3. Excessive patching of field seams because of inexperienced or poor workmanship will not be accepted at time of final inspection for warranty acceptance.

H. Metal Flashings:

1. General: Fabricate and install per Section 07601 - FLASHING AND SHEET METAL, as shown and per manufacturer's recommendations. Install PVC coated metal flashing at intersections of roofs with sloped or vertical surfaces, roof interruptions and penetrations.
2. Base Flashing: Extend up vertical surfaces 6 inches, minimum, and onto the horizontal roof surfaces not less than 3 inches, unless otherwise noted. Provide PVC coated metal flashing with 2 inches minimum overlap of roofing membrane; heat weld in the horizontal plane, with subsequent sealing of seams with sealant.

3. All perimeter edge details are to be fabricated from Garland/VPG SolarBright Clad Metal and required to have 22 gauge cleat.
4. Ensure all fascia extend a minimum of 2 inch lower than the bottom of the wood nailers.
5. Fasten all metal flashing to wood nailers or approved substrate with approved fasteners eight (8") inches on center.
6. Manufacture and install Solar Bright Clad metal in accordance with approved details, ensuring proper attachment, maintaining 1/2 inch expansion joints and the installation of a minimum 2 inch bond breaker tape prior to sealing the joint.
7. Solidly weld Solar Bright Clad expansion joints with a 6 inch strip of Solar Bright membrane welded to the Solar Bright Clad, covering the bond breaker tape (cover plates are optional).

I. Roof Drains

1. Flash all roof drains in accordance with Solar Bright roof drain details.
2. Replace all worn or broken parts that may cut the Solar Bright membrane or prevent a watertight seal. This includes the clamping ring and strainer basket.
3. Replace all drain bolts or clamps used to hold the drain compression ring to the drain bowl.
4. Solar Bright non-reinforced 60 mil membrane shall be used for flashing the drain assembly. Drain assemblies and basins or "sumps" must be free of any asphalt or coal tar pitch residue prior to installation.
5. The drain target sheet should be sized and installed to provide for a minimum of 12 inch of exposed 60 mil on all sides of the drain.

3.4. FIELD QUALITY CONTROL

- A. Perform field inspection and testing as required under provisions of Division 01 Section Quality Requirements & manufacturers recommendations.
- B. Heat weld test cuts will be required. One (1) test cut per 5,000 square feet will be required.
- C. Correct defects or irregularities discovered during field inspection.
- D. Require attendance of roofing materials manufacturers' representatives at site during installation of the roofing system a minimum of two (2) days per week. A copy of the specification should also be on site at all times.

3.5. CLEANING

- A. Keep premises free from accumulation of waste and debris. At completion of installation remove surplus materials and debris.
- B. At completion clean exposed surfaces in a manner that will not damage finish.

3.6. FINAL INSPECTION

- A. At completion of roofing installation and associated work, meet with Contractor, Architect, installer, installer of associated work, Owner, roofing system manufacturer's representative, and other representatives directly concerned with performance of roofing system.
- B. Walk roof surface areas of the building, inspect perimeter building edges as well as flashing of roof penetrations, walls, curbs and other equipment. List all items requiring correction or completion and furnish copy of list to each party in attendance.
- C. The roofing system manufacturer reserves the right to request a thermographic scan of the roof during final inspection to determine if any damp or wet materials have been installed. The thermographic scan shall be provided by the Roofing Contractor.
- D. If core cuts verify the presence of damp or wet materials, the Roofing Contractor shall be required to replace the damaged areas at his own expense.
- E. Repair or replace deteriorated or defective work found at time above inspection as required to produce an installation which is free of damage and deterioration at time of Substantial Completion and according to warranty requirements
- F. Notify the Contractor, Architect, & Owner upon completion of corrections.
- G. Following the final inspection, provide written notice of acceptance of the installation from the roofing system manufacturer.

3.7. FIELD QUALITY CONTROL

- A. Inspection: Provide manufacturer's field observations at start-up and two (2) days per week through project completion. Provide a final inspection upon completion of the Work.
 - 1. Warranty shall be issued upon manufacturer's acceptance of the installation.
 - 2. Field observations shall be performed by a representative employed full-time by the manufacturer and whose primary job description is to assist, inspect and approve membrane installations for the manufacturer.
 - 3. Provide observation reports from the representative indicating procedures followed, weather conditions and any discrepancies found during inspection.
 - 4. Provide a final report from the representative, certifying that the roofing system has been satisfactorily installed according to the project specifications, approved details and good general roofing practice.

3.8 ROOFING INSTALLER'S WARRANTY

- A. WHEREAS _____ of _____, herein called the "Roofing Installer," has performed roofing and associated work ("work") on the following project:
1. Owner: _____.
 2. Address: _____.
 3. Building Name/Type: _____.
 4. Address: _____.
 5. Area of Work: _____.
 6. Acceptance Date: _____.
 7. Warranty Period: **Five Years**.
 8. Expiration Date: _____.
- B. AND WHEREAS Roofing Installer has contracted (either directly with Owner or indirectly as a subcontractor) to warrant said work against leaks and faulty or defective materials and workmanship for designated Warranty Period,
- C. NOW THEREFORE Roofing Installer hereby warrants, subject to terms and conditions herein set forth, that during Warranty Period he will, at his own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work and as are necessary to maintain said work in a watertight condition.
- D. This Warranty is made subject to the following terms and conditions:
1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by:
 - a. lightning;
 - b. peak gust wind speed exceeding **100 MPH**;
 - c. fire;
 - d. failure of roofing system substrate, including cracking, settlement, excessive deflection, deterioration, and decomposition;
 - e. faulty construction of parapet walls, copings, chimneys, skylights, vents, equipment supports, and other edge conditions and penetrations of the work;
 - f. vapor condensation on bottom of roofing; and
 - g. activity on roofing by others, including construction contractors, maintenance personnel, other persons, and animals, whether authorized or unauthorized by Owner.
 2. When work has been damaged by any of foregoing causes, Warranty shall be null and void until such damage has been repaired by Roofing Installer and until cost and expense thereof have been paid by Owner or by another responsible party so designated.
 3. Roofing Installer is responsible for damage to work covered by this Warranty but is not liable for consequential damages to building or building contents resulting from leaks or faults or defects of work.
 4. During Warranty Period, if Owner allows alteration of work by anyone other than Roofing Installer, including cutting, patching, and maintenance in connection with penetrations, attachment of other work, and positioning of anything on roof, this Warranty shall become null and void on date of said alterations, but only to the extent said alterations affect work covered by this Warranty. If Owner

engages Roofing Installer to perform said alterations, Warranty shall not become null and void unless Roofing Installer, before starting said work, shall have notified Owner in writing, showing reasonable cause for claim, that said alterations would likely damage or deteriorate work, thereby reasonably justifying a limitation or termination of this Warranty.

5. During Warranty Period, if original use of roof is changed and it becomes used for, but was not originally specified for, a promenade, work deck, spray-cooled surface, flooded basin, or other use or service more severe than originally specified, this Warranty shall become null and void on date of said change, but only to the extent said change affects work covered by this Warranty.
6. Owner shall promptly notify Roofing Installer of observed, known, or suspected leaks, defects, or deterioration and shall afford reasonable opportunity for Roofing Installer to inspect work and to examine evidence of such leaks, defects, or deterioration.
7. This Warranty is recognized to be the only warranty of Roofing Installer on said work and shall not operate to restrict or cut off Owner from other remedies and resources lawfully available to Owner in cases of roofing failure. Specifically, this Warranty shall not operate to relieve Roofing Installer of responsibility for performance of original work according to requirements of the Contract Documents, regardless of whether Contract was a contract directly with Owner or a subcontract with Owner's General Contractor.

E. IN WITNESS THEREOF, this instrument has been duly executed this _____ day of _____, _____.

1. Authorized Signature: _____.
2. Name: _____.
3. Title: _____.

END SECTION 07 54 20