# Butler Tech DRL
## 3605 Hamilton Middletown Rd. Ohio 45011
## Roofing - Summer 2026

**Base Bid Item #1 Roof Replacement - Sections D, D1, D2 & D4**
**Alternate Bid Item #2 Roof PM – Section H**
**Alternate Bid Item #3 Roof Replacement - Section I**

SECTION 07550
MODIFIED BITUMEN ROOFING COLD PROCESS

1.1 **SCOPE OF WORK** – **Bid Items #1 and #3 Full Replacement** - Sections D, D1, D2, D4 & I

A. Provide all labor, equipment, and materials to install the roof system over a properly prepared substrate.
B. All required permits are the roofing contractor's responsibility.
C. Remove all roofing to existing steel deck. Inspect decking and make repairs as needed per unit costs. Minimal deck repairs are expected.
D. Slope is in the structure – Loose lay two layers 2.2" x 4' x 8' Polyiso. ridged insulation. Keep all joints tight. Offset insulation layers by 12" minimum in both directions.
**E. Mechanically fasten the new polyiso. with coated roofing screws and 3" insulation plates at 1:2 per sf in the field. Increase fastener rate by 50% at all 8 ft perimeters.**
F. Install 1 layer ½" x 4'x4' DensDeck prime in Garland Insul-Lock Adhesive. Apply at 12" bead centers in field and 6" bead center at 8 ft perimeters. Application rate to be provided with material price sheet. Garland compressed tank adhesive is also available.
G. Add treated wood nailers as required for the new roof system. Existing wood nailers may remain if in good condition. Add fasteners to existing blocking as needed to secure the existing wood nailer. All existing wood must be sound and secure. Wood nailers at the existing gutter edge to be 1.5" lower than the field insulation. A sketch will be provided at the prebid site meeting. The existing stainless steel gutters and downspouts are to remain.
H. Gutter strip-in tapered edge transition - Install 0" to 1.5" x 24" wood fiber tapered edge at the gutter line.
I. **All roof drains to be sumped 8' x 8' x 2.5".** Install 40" x 40" x 4 lb drain leads per Garland standard details at all roof drains. Missing drain bolts, clamping rings and strainers to be replaced. Paint strainers with aluminum coating.
J. Five course all cut plies inside roof drain sumps.
K. Install ½" per FT saddles at roof drains to metal edge (16 ft wide) and on the high side of curbs. Submit proposed tapered insulation drawing for Garland approval.
L. Install one ply FlexBase 80 and 1 ply Stress Ply E (non-mineral) in Weatherking cold ply adhesive. Top StressPly to be installed within 3 days of the base ply.
M. Meadows White walk roof protection pad or equal to be installed at all serviceable units. Pads to be 3 ft x 4 ft and set in 6ea 6" x 6" globs of roofing cement over the coated roof. Install with 1.5" drainage channels between pads. A LF will be provided at the prebid site meeting.
N. Install new pre-fabricated pipe supports by Viking Products Group for all exiting gas pipe lines. Spacing to be 10ft o.c. for pipe less than 3" dia and 5 ft o.c. for pipe 3" dia. and larger.
O. Fabricate and install 22 Ga. contractor fabricated flashing out of Garland prefinished flat stock metal. The owner to select a color from standard colors. Submit end joint details for approval. All coping and edge metal requires continuous cleats **face fastened (12" o.c.)**

**and deck wood nailer fastened (8" o.c.).**

P. AFTER 30 DAYS ply adhesive cure, aluminize all flashings, vent pipes, roof drains and penetrations with **1 coat of Garland GarlaBrite and 1 coat of Garland SilverShield fibrated reflective coating.**

**Q. Roofing Contractor - Lightning protection to be removed and ground loaded for the owner to store. All unit and grounding rods to remain in place. New lightning protection will not be installed**

R. All new pitch pockets, caps and pipe flashings to be 26 Ga stainless steel with soldered joints. Pitch pockets to be filled with pourable sealer.

S. Follow all Garland standard details.

**SCOPE OF WORK – Bid Items #2 PM and Coating Section H**

A. Provide all labor, equipment, and materials to install the roof system over a properly prepared substrate.

B. All required permits are the roofing contractor's responsibility.

C. Pressure wash per Section H PM Map – Ponding areas with Simple Green

D. Apply a base coat of Liquid Tech and polyester Gray

E. Apply a top coat Liquid Tec White

1.2 RELATED SECTIONS

A. Drawings and general provisions of the Contract apply to this section.

1.3 REFERENCES

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|---|---|
| ASTM D-41 | Specification for Asphalt Primer Used in Roofing, Dampproofing and Waterproofing |
| ASTM D-312 | Specification for Asphalt Used in Roofing |
| ASTM D-451 | Test Method for Sieve Analysis of Granular Mineral Surfacing for Asphalt Roofing Products |
| ASTM D-1079 | Terminology Relating to Roofing, Waterproofing and Bituminous Materials |
| ASTM D-1227 | Specification for Emulsified Asphalt Used as a Protective Coating for Roofing |
| ASTM D-1863 | Specification for Mineral Aggregate Used as a Protective Coating for Roofing |
| ASTM D-2178 | Specification for Asphalt Glass Felt Used as a Protective Coating for Roofing |
| ASTM D-2822 | Specification for Asphalt Roof Cement |
| ASTM D-2824 | Specification for Aluminum-Pigmented Asphalt Roof Coating |
| ASTM D-4601 | Specification for Asphalt Coated Glass Fiber Base Sheet Used in Roofing |
| ASTM D-5147 | 1991 Test Method for Sampling and Testing Modified Bituminous Sheet Materials |
| ASTM D-6162 | Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements |
| ASTM D-6163 | Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Glass Fiber Reinforcements |
| ASTM E-108 | Test Methods for Fire Test of Roof Coverings |
| FM | Factory Mutual |
| NRCA | National Roofing Contractors Association |

| | |
|---|---|
| UL | Underwriters Laboratories |
| WH | Warnock Hersey |

1.4 SUBMITTALS

A. Submit under provisions of Section 01300-Submittals.

B. Submit certification that the roof system furnished is approved by Factory Mutual, Underwriters Laboratories, or Warnock Hersey for external fire E-108 Class 1A and that the roof system is adhered properly to meet or exceed 1-90.

B. Submit certification that the roof system furnished meets local or nationally recognized building codes for fire Class A and/or wind resistance.

C. Product Data for each type of product specified including manufacturer's technical product data, installation instructions and recommendations for each type of roofing product required. Include data substantiating that materials comply with specified requirements.

D. For all modified bituminous sheet roofing, include independent test data according to ASTM designation D-5147-91 "Standard Test Methods for Sampling and Testing Modified Bituminous Sheet Material", substantiating that materials comply with specified requirements.

E. Any material submitted as an equal to specified material must also submit a list of three jobs where the proposed material has been used in a similar roofing system as that which is specified and within one hundred mile radius from the location of the specified job. In addition, the three jobs must be at least five years old and be available for the Owner or Owner's Representative to inspect.

F. Show evidence that the products and materials are manufactured in the United States and that materials provided conform to all requirements specified herein, and are chemically and physically compatible with each other and are suitable for inclusion within the total roof system specified herein.

G. Show evidence that the Installer specializes in modified bituminous roof application with a minimum 5 years experience and who is certified by the roofing system manufacturer as qualified to install manufacturer's roofing materials.

H. Provide a sample of each product.

I. Unexecuted Manufacturer's warranty.

J. Certified copy of ISO 9001 compliance.

L. Any deficiencies in performance, warranty terms or improper submittal procedure will constitute grounds for immediate rejection of alternate.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Roofing system manufacturer shall have a minimum of 12 years experience in manufacturing bitumen roofing products in the United States and be ISO 9001 certified.

B. Installer Qualifications: Installer (Roofer) shall be specializing in modified bituminous roof application with minimum 5 years experience and who is certified by the roofing system manufacturer as qualified to install manufacturer's roofing materials.

C. It is the intent of this specification to provide a roof system with an external fire rating. The descriptions given below are general descriptions. The insulation, recovery board, and other components shall be required by the membrane manufacturer to provide a Class A fire resistance rating.

D. Installer's Field Supervision: Require Installer to maintain a full-time Supervisor/Foreman on job site during all phases of bituminous sheet roofing work and at any time roofing work is in progress, proper supervision of workmen shall be maintained. A copy of the specification shall be in the possession of the Supervisor/Foremen and on the roof at all times.

E. It shall be the Contractor's responsibility to respond immediately to correction of roof leakage during construction. If the contractor does not respond within 24 hours, the Owner has the right to hire a qualified contractor and back charge the original contractor.

F. Disqualification of Bidders: A bidder can be disqualified by the Owner for any of the following reasons, but not limited to:

1. The failure to attend the Pre-Bid conference at the time and place so described under Bidding Dates.
2. Incorrect use of the "Proposal" as provided by the Owner. Any changes in said format shall be accepted by the Owner only when requested and approved in writing prior to the bid opening. Changes in the Proposal after the opening of the bids will not be accepted.
3. Lack of proficiency as shown by past work or incomplete work under other contracts which, in the judgment of the Owner might hinder or prevent the prompt completion of additional work if so awarded or any involvement in any legal actions which relate to past or present performance. This includes, but is not limited to lawsuits, court appointed actions, and/or ongoing litigation.

G. Insurance Certification: 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.

H. Pre-application Roofing Conference: Approximately 2 weeks before scheduled commencement of modified bitumen roof system installation and associated work meet at project site with installer of each component of associated work, installers of deck or substrate construction to receive roofing work, installers of rooftop units and other work in the around roofing must precede or follow roofing work (including mechanical work if any), Architect/Owner, roofing system manufacturer's representative, and other representatives directly concerned with performance of the Work, including (where applicable) Owner's insurers, test agencies and governing authorities.

Objectives to include:

1. Review foreseeable methods and procedures related to roofing work.
2. Tour representative areas of roofing substrates (decks), inspect and discuss condition of substrate, roof drains, curbs, penetrations and other preparatory work performed by other trades.
3. Review structural loading limitations of deck and inspect deck for loss of flatness and for required attachment.
4. Review roofing system requirements (drawings, specifications and other contract documents).
5. Review required submittals both completed and yet to be completed.
6. Review and finalize construction schedule related to roofing work and verify availability of materials, Installer's personnel, equipment and facilities needed to make progress and avoid delays.
7. Review required inspection, testing, certifying and material usage accounting procedures.

8. Review weather and forecasted weather conditions and procedures for coping with unfavorable conditions, including possibility of temporary roofing (if not mandatory requirement).
9. Record (contractor) discussion of conference including decisions and agreements (or disagreements) reached and furnish copy of record to each party attending. If substantial disagreements exist at conclusion of conference, determine how disagreements will be resolved and set date for reconvening conference.
10. Review notification procedures for weather or non-working days.

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver products to site with seals and labels intact, in manufacturer's original containers, dry and undamaged.

B. Store and handle roofing sheets in a dry, well-ventilated, weather-tight place to ensure no possibility of significant moisture exposure. Store rolls of felt and other sheet materials on pallets or other raised surface. Stand all roll materials on end. Cover roll goods with a canvas tarpaulin or other breathable material (not polyethylene).

C. Do not leave unused materials on the roof overnight or when roofing work is not in progress unless protected from weather and other moisture sources.

D. It is the responsibility of the contractor to secure all material and equipment on the job site. If any material or equipment is stored on the roof, the contractor must make sure that the integrity of the deck is not compromised at any time. Damage to the deck caused by the contractor will be the sole responsibility of the contractor and will be repaired or replaced at his expense.

1.7 MANUFACTURER'S INSPECTIONS

A. When the project is in progress, the Roofing System Manufacturer will provide the following:

1. Keep the Owner informed as to the progress and quality of the work as observed.
2. Provide job site inspections a minimum of three days a week.
3. Report to the Owner in writing any failure or refusal of the Contractor to correct unacceptable practices called to the Contractor's attention.
4. Confirm after completion of the project and based on manufacturer's observation and tests that manufacturer has observed no applications procedures in conflict with the specifications other than those that may have been previously reported and corrected.

1.8 PROJECT CONDITIONS

A. Weather Condition Limitations: Do not apply roofing membrane during inclement weather or when a 40% chance of precipitation is expected.

B. Do not apply roofing insulation or membrane to damp deck surface.

C. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed during the same day.

D. Proceed with roofing work only when existing and forecasted weather conditions will permit unit of work to be installed in accordance with manufacturer's recommendations and warranty requirements.

1.9 SEQUENCING AND SCHEDULING

A. Sequence installation of modified bituminous sheet roofing with related units of work specified in other sections to ensure that roof assemblies including roof accessories, flashing, trim and joint sealers are protected against damage from the effects of weather, corrosion and adjacent construction activity.

B. All work must be fully completed on each day. Phased construction will not be accepted.

C. The Contractor is to coordinate with the G.C. on the project for the installation of HVAC Units on roof areas.

1.10 WARRANTY

A. Upon completion of installation, and acceptance by the Owner and, the manufacturer will supply to the Owner a 25 Year Warranty.

B. Contractor will submit a minimum of a two-year warranty to the membrane manufacturer with a copy directly to Owner.

PART 2 - PRODUCTS

2.1 GENERAL

A. When a particular trade name or performance standard is specified, it shall be indicative of a standard required.

B. Provide products as manufactured by The Garland Company or approved equal. Bidders proposing substitutes shall submit all required information to Owner at least 10 days prior to bid due date.

C. Any item or materials submitted as an alternate to the manufacturer specified must comply in all respects as to the quality and performance of the brand name specified. The Owner shall be the sole judge as to whether or not an item submitted as an equal is truly equal. Should the contractor choose to submit on the equal basis, he shall assume all risk involved, monetary or otherwise should the Owner find it unacceptable.

D. **NOTE: As per Butler Tech's participation in the Equalis Group Cooperative Purchasing Program for Roofing Supplies and Related Products and Services, as priced by and awarded to Garland/DBS, Inc., resulting from the competitively solicited RFP # COG - 2133, it is the intent of the Agency to purchase direct the identified materials on the "Garland Material List" which will be provided via Addendum. The authorized Garland Applicators Bid shall include everything except for the materials listed on the Material List. The roofing contractor shall also be responsible for accepting the materials at the job site and staging them where they feel necessary. If materials remain once the job is complete, Butler Tech has the option to decide what to do with the materials. One option, if Butler Tech decides to return the unused/properly stored materials to Garland, the contractor shall be responsible for the restocking fee. The base list of materials will be provided via addendum prior to the bid due date.**

2.2 DESCRIPTION

A. Modified bituminous roofing work including but not limited to:

1. One ply **FLEXBASE 80** in cold process

2. Garland WeatherKing Cold Process interply

3. All flashings will be set in bitumen and will be one ply of 40 mil SBS base flashing ply covered by an additional layer of modified bitumen membrane.

4. The top modified membrane will be:

a. **STRESSPLY E**
135 mil SIS and SBS
(Styrene-Isoprene-Styrene and Styrene-Butadiene-Styrene) rubber modified roofing membrane with fire retardant characteristics and reinforced with a dual fiberglass scrim and polyester mat.

2.3 BITUMINOUS MATERIALS

A. Asphalt Primer: V.O.C. compliant, ASTM D-41.

B. Asphalt Roofing Mastic: V.O.C. compliant, ASTM D-2822, Type II.

C. Interply Adhesive

1. Shall meet ASTM Specifications D-312 Type III.

C. Modified Flashing Ply

STRESSPLY "E" MINERAL

D. MODIFIED MEMBRANE
PROPERTIES: Finished Membranes

1. **STRESSPLY E**
ASTM D-6162 Type III Grade G

| | | |
|---|---|---|
| **Tensile Strength** (ASTM D-5147) | | |
| 2 in/min. @ 73.4 ± 3.6°F | MD 500 lbf/in | CMD 550 lbf/in |
| (50 mm/min. @ 23 ± 3°C) | MD 122.5 kN/m | CM131.25 kNm |
| **Tear Strength** (ASTM D-5147) | | |
| 2 in/min. @ 73.4 ± 3.6°F | MD 900 lbf | CMD 950 lbf |
| 50 mm/min. @ 23 ± 3°C | MD 5783 N | CMD 6227 N |
| **Elongation at Maximum Tensile** (ASTM D-5147) | | |
| 2 in/min. @ 73.4 ± 3.6°F | MD 6.0% | CMD 6.0% |
| 50 mm/min. @ 23 ± 3°C | | |
| **Low Temperature Flexibility** (ASTM D-5147) | Passes -30°F (-34°C) | |

2.5 SURFACINGS

A. Garland GarlaBrite and SilverShield Reflective coating. 1 coat each.

2.6 RELATED MATERIALS

A. Roof Insulation: Reference Section 07220 - Roof and Deck Insulation for requirements.

B. Roof Insulation Fasteners: Reference Section 07220 - Roof and Deck Insulation for requirements.

C. Base Sheet: shall meet the requirements of ASTM D-4601 Type II and be recommended and furnished by the membrane manufacturer.

D. Nails and Fasteners: Non-ferrous metal or galvanized steel, except that hard copper nails shall be used with copper; aluminum or stainless-steel nails shall be used with aluminum; and stainless steel nails shall be used with stainless steel. Fasteners shall be self-clinching type of penetrating type as recommended by the manufacturer of the deck material. Nails and fasteners shall be flush-driven through flat metal discs of not less than 1-inch diameter. Metal discs may be omitted when one-piece composite nails or fasteners with heads not less than 1-inch diameter are used.

E. Metal Discs: Flat discs or caps of zinc-coated sheet metal not lighter than 28 gauge and not less than 1-inch in diameter. Discs shall be formed to prevent dishing. Bell or cup shaped caps are not acceptable.

F. Walkway Pads: As recommended and furnished by the membrane manufacturer.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

A. Examine substrate surfaces to receive modified bitumen sheet roofing system and associated work and conditions under which roofing will be installed. Do not proceed with roofing until unsatisfactory conditions have been corrected in a manner acceptable to Roof System Manufacturer.

### 3.2 GENERAL INSTALLATION REQUIREMENTS

A. Cooperate with manufacturer, inspection and test agencies engaged or required to perform services in connection with installing the roof system.

B. Insurance/Code Compliance: Where required, install and test the roofing system to comply with governing regulations and specified insurance requirements.

B. Protect other work from spillage of roofing materials and prevent materials from entering or clogging drains and conductors. Replace or restore other work damaged by installation of the modified bituminous roofing system work.

C. Substrate Joint Penetrations: Prevent bitumen from penetrating substrate joints, entering building, or damaging roofing system components or adjacent building construction.

D. Apply roofing materials as specified herein unless recommended otherwise by manufacturer’s instructions. Keep roofing materials dry before and during application. Do not permit phased construction. Complete application of roofing plies, modified sheet and flashing in a continuous operation. Begin and apply only as much roofing in one day as can be completed that same day.

E. Cut-Offs: At end of each day’s roofing installation, protect exposed edge of incomplete work, including ply sheets and insulation.

### 3.5 MODIFIED MEMBRANE APPLICATION

A. The modified membrane shall then by solidly bonded to the base layers with specified adhesive .

B. Apply pressure to all seams to ensure that the laps are solidly bonded to substrate.

C. Subsequent rolls of modified shall be installed across the roof as above with a minimum of 4" side laps and 8" end laps. The end laps shall be staggered. The modified membrane shall be laid in the same direction as the underlayers but the laps shall not coincide with the laps of the base layers.

D. Extend membrane 2" beyond top edge of all cants in full adhesive

3.6 FLASHING MEMBRANE INSTALLATION (GENERAL)

A. All curb, wall and parapet flashings shall be sealed with an application of mastic and mesh on a daily basis. No condition should exist that will permit moisture entering behind, around or under the roof or flashing membrane.

B. Prepare all walls, penetrations and expansion joints to be flashed and where shown on the drawings with asphalt primer at the rate of 100 square feet per gallon. Allow primer to dry tack free.

C. The modified membrane will be used as the flashing membrane and will be adhered to an underlying base flashing ply with specified asphalt unless otherwise noted in these specifications and nailed off 8" O.C. at all vertical surfaces.

D. The entire sheet of flashing membrane must be solidly adhered to the substrate.

E. Seal all vertical laps of flashing membrane with a three-course application of Flashing Bond and fiberglass mesh.

F. Counter flashing, cap flashings, expansion joints, and similar work to be coordinated with modified bitumen roofing work are specified in other sections.

E. Roof accessories, miscellaneous sheet metal accessory items, including piping vents and other devices to be coordinated with the roofing system work are in other sections.

3.7 FLASHING MEMBRANE INSTALLATION (SPECIFIC)

.1 EXHAUST FAN DETAIL
DETAIL #MBH-36

A. Minimum curb height is 8". Prime vertical at a rate of 100 square feet per gallon and allow to dry.

B. Set cant in flashing cement. Run all plies over cant a minimum of 2".

C. Install base flashing ply covering curb with 6" on to field of roof.

D. The second ply shall be a modified flashing ply installed over the base flashing ply 9" on to field of roof. Attach top of membrane to top of curb and nail 8" O.C. All vertical seams will receive a three-course application of mastic and mesh allowed to cure and aluminize.

E. Place metal exhaust fan over the wood nailers and flashing to act as counterflashing. Fasten per manufacturer's recommendation.

.2 ROOF DRAIN

DETAIL #MBH-40

A. Plug drain to prevent debris from entering plumbing.

B. Taper insulation to drain minimum of 24” from center of drain.

C. Run roof system plies over drain. Cut out plies inside drain bowl.

D. Set lead 4 pound flashing (30” square minimum) in 1/4” bed of mastic. Run lead into drain a minimum of 2”. Prime lead/copper at a rate of 100 square feet per gallon and allow to dry.

E. Install base flashing ply (40” square minimum) in adhesive.

F. Install modified membrane (48” square minimum) in adhesive.

G. Install clamping ring and assure all plies are under the clamping ring.

H. Remove drain plug and install strainer.

.3 PLUMBING STACK
DETAIL #MBH-50

A. Minimum stack height is 12”.

B. Run roof system over the roof. Seal the base of the stack with elastomeric sealant.

C. Prime flange of new sleeve. Install properly sized sleeves set in ¼” bed of roof cement.

D. Install base flashing ply in adhesive .

E. Install modified membrane in adhesive .

F. Caulk the intersection of the membrane with elastomeric sealant.

F. Turn sleeve a minimum of 1” down inside of stack.

.4 COPING CAP
DETAIL #MBH-20

A. Minimum flashing height is 8”. Maximum flashing height is 24”. Prime vertical wall at a rate of 100 square feet per gallon and allow to dry.

B. Set cant in bitumen. Run all field plies over cant a minimum of 2”.

C. Attach tapered board to top of wall.

D. Install base flashing ply covering entire wall and wrapped over top of wall and down face with 6” on to field of roof set in hot asphalt. Nail membrane 8” O.C.

E. The second ply shall be a modified flashing ply installed over the base flashing ply 9” on to field of roof in bitumen. All vertical seams will receive a three-course application of mastic and mesh allowed to cure and aluminize.

F. Install continuous cleat, fasten 6” O.C. to outside wall.

G. Install new metal coping cap 22 ga prefinished Garland hooked to continuous cleat.

H. Fasten inside cap 24" O.C. with approved fasteners with neoprene washers.

.5 PITCH POCKET UMBRELLA
DETAIL #MBH-53

A. Run all plies up to the penetration.

B. Pitch pans shall be 24 gauge galvanized steel and at least 4" deep. The pourable sealer pocket should extend at least 1" beyond the penetration in all directions. All corners and seams should be welded tight and watertight.

C. Place the pourable sealer pocket over the penetration and prime all flanges.

D. Strip in flange of pourable sealer pocket with one ply of base flashing ply. Extend 6" onto field of roof.

E. Install second layer of modified membrane extending 9" onto field of roof.

F. Fill pitch pan half full with non-shrink grout. Let this cure and top off with pourable sealant min 2".

G. Caulk joint between roof system and pitch pan with roof cement.

H. Place a watershedding bonnet over the top of the pitch pocket and clamp the top with a drawband collar. Caulk the upper edge of the band with an elastomeric sealant.

.6 EXPANSION JOINT
DETAIL #MBH-30

A. Minimum curb height is 8". Top of curb to be chamfered. Prime vertical curb at a rate of 100 square feet per gallon and allow to dry.

B. Mechanically attach wood cant to expansion joint nailers. Run all field plies over cant a minimum of 2".

C. Install compressible insulation in neoprene cradle.

D. Install base flashing ply covering curb with 6" on to field of roof set in hot asphalt.

E. The second ply shall be a modified flashing ply installed over the base flashing ply 9" on to field of roof set adhesive . Attach top of membrane to top of curb and nail 8" O.C. All vertical seams will receive a three-course application of Flashing Bond and mesh allowed to cure and aluminize.

F. Install shop fabricated 26 ga stainless steel expansion joint cover. Fasten sides 12" O.C. with fasteners and neoprene washers. All joint cover laps will have butyl tape between metal covers.

APPLICATION OF SURFACING

A. Reflective Coating Surfacing

1. Garland GarlaBrite and SilverShield Reflective coating. 1 coat each.

3.9 CLEANING

A. Remove drippage of adhesive from all walls, windows, floors, ladders and finished surfaces.

B. In areas where finished surfaces are soiled by asphalt or any other sources of soiling caused by work of this section, consult manufacturer of surfaces for cleaning advice and conform to their instructions.

3.10 FINAL INSPECTION

A. At completion of roofing installation and associated work, meet with 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 parting attending.

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 at a negotiated price.

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 (as required) deteriorated or defective work found at time above inspection to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.

F. The Contractor is to notify the Owner upon completion of corrections.

G. Following the final inspection, acceptance will be made in writing by the material manufacturer.

END OF SECTION