

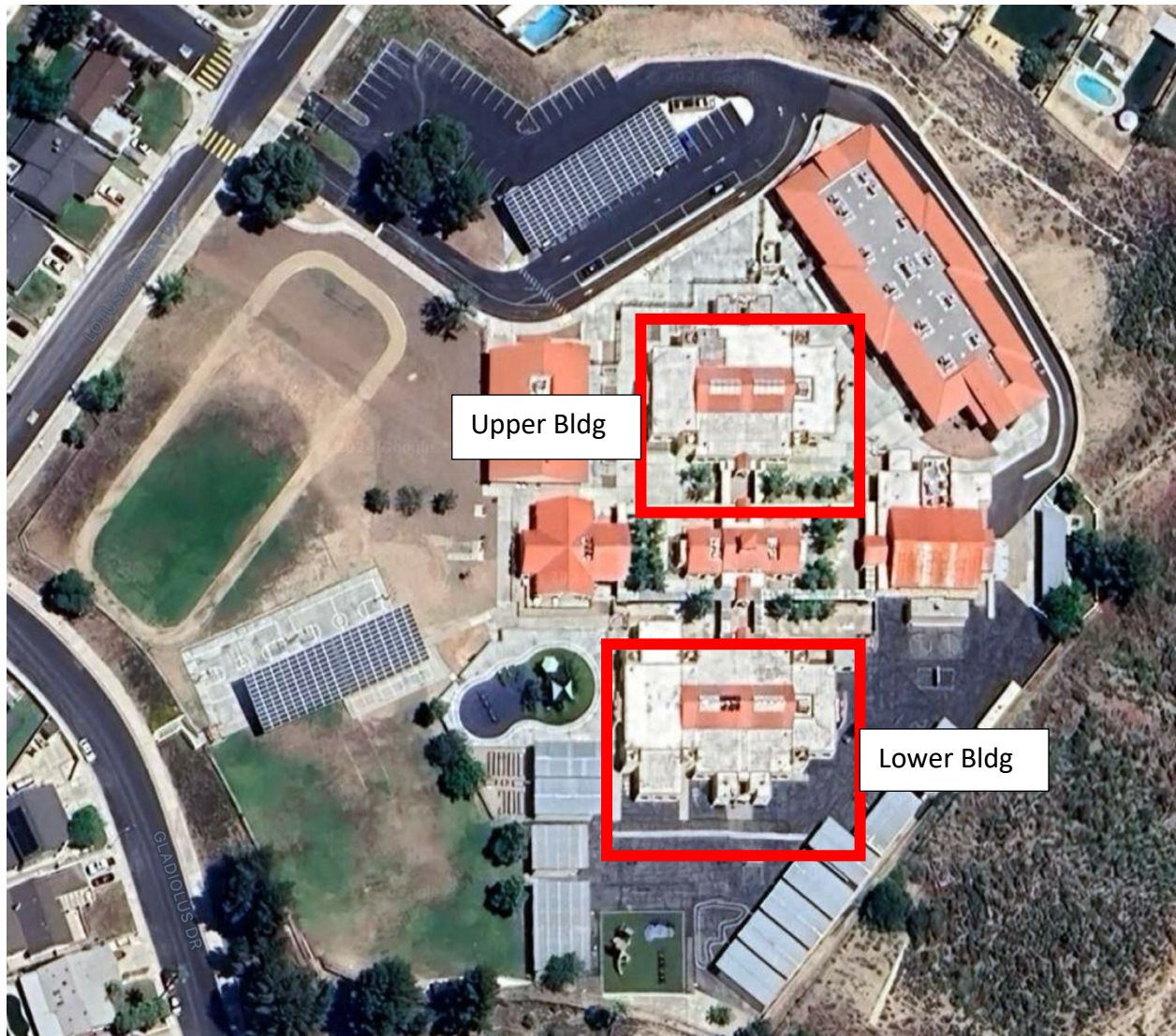
# 2025 ROOFING PROJECTS

Pinetree Community Elementary School

April 2025

# **Sulphur Springs Union School District Pinetree Community Elementary School**

29156 Lotusgarden Dr  
Canyon Country, CA 91387



UPPER AND LOWER BUILDING- All flat roof levels

SECTION 075416 - KETONE ETHYLENE ESTER (KEE) ROOFING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Mechanically-fastened thermoplastic KEE roofing system on wood deck, including:
2. Roof insulation.
3. Roof insulation cover board.
4. New Kynar copings.
5. New drain covers (where missing)
6. Walkway material.

1.2 RELATED SECTIONS

1. This project consists of roof replacing selected roofs at Pinetree Comm. Elementary School with roofing system utilizing materials that are pre-purchased by the District via CMAS. Contractor is to provide Labor and all other materials in conformance with Contract Documents and as necessary in order for the Roof System Manufacture to issue specified Warranty and Maintenance Program
2. Contractor shall be responsible for providing and installing additional materials and miscellaneous not provided by the District (**See Attachments A for list of District Supplied Materials**). All Roofing Materials used must be approved by Roof System Manufacturer in writing. Additional materials required for a complete installation are to be supplied by the Contractor including but not limited to sheet metal flashings, walkways, edge metals, gutters, coatings, sealants, wall panels, copings, etc.
3. Contractor shall provide all labor and equipment necessary to off load Owner's material from transit vehicles or storage and placement within staging areas or on roof. Contractor shall verify shipping manifests and compare and sign off quantities from Owner Materials Supplied List with Manufacture's and Owner's representative present.

1.3 DEFINITIONS

- A. Roofing Terminology: Refer to ASTM D1079 "Standard Terminology Relating to Roofing and Waterproofing" and applicable edition of NRCA's "The NRCA Roofing Manual: Membrane Roof Systems" and NRCA's Glossary for definition of terms related to roofing work in this Section.

#### 1.4 PREINSTALLATION MEETINGS

A. Preinstallation Roofing Conference: Conduct conference at Project site.

1. Meet with Owner, Owner's Consultant, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, [deck Installer,] and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
2. Review drawings and specifications.
3. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
4. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
5. Examine substrate conditions and finishes for compliance with requirements, including flatness and fastening.
6. Review structural loading limitations of roof deck during and after roofing.
7. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that will affect roofing system.
8. Review governing regulations and requirements for insurance and certificates if applicable.
9. Review temporary protection requirements for roofing system during and after installation.
10. Review roof observation and repair procedures after roofing installation.

#### 1.5 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. Sustainable Design Submittals:

1. Product Data and Laboratory Test Reports: For adhesives and sealants, indicating compliance with requirements for low-VOC/low-emitting materials.

C. Samples for Verification: For the following products:

1. Sheet roofing, of color specified, including T-shaped side and end lap seam.
2. Walkway pads or rolls.
3. Metal termination bars.

- D. Wind Uplift Resistance Submittal: For roofing system, indicating compliance with wind uplift performance requirements.

#### 1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer, Manufacturer and Roofing Inspector.
  - 1. Include letter from Manufacturer written for this Project indicating approval of Installer.
- B. Manufacturer Certificates:
  - 1. Submit evidence of compliance with specified requirements in "Performance Requirements" Article.
  - 2. Product Compatibility: Indicate manufacturer has verified compatibility of roofing system components, including but not limited to: Roofing membrane, flashing sheets, adhesives, and sealants.
- C. Warranties: Unexecuted sample copies of special warranties.
- D. Manufacturer's Instructions: Submit copy of manufacturer's written installation instructions for specified roofing system.

#### 1.7 CLOSEOUT SUBMITTALS

- A. Executed copies of warranties.
- B. Maintenance Data: To include in maintenance manuals.

#### 1.8 QUALITY ASSURANCE

- A. Installer Qualifications: An employer of workers trained and certified by manufacturer, including a full-time on-site supervisor with a minimum of five years' experience installing products comparable to those specified, able to communicate verbally with Contractor, Owner's Consultant, and employees, and qualified by the manufacturer to install manufacturer's product and furnish warranty of type specified.
- B. Manufacturer Qualifications: Approved manufacturer with roofing systems comparable to that specified for this Project, with minimum five years' experience in manufacture of thermoplastic roof membrane products in successful use in similar applications.
- C. Roofing Inspector Qualifications: A technical representative of manufacturer and experienced in the installation and maintenance of the specified roofing system, qualified to perform roofing observation and inspection specified in Field Quality Control Article, to determine Installer's compliance with the requirements of this Project, and approved by the manufacturer to issue warranty certification. The Roofing Inspector shall be one of the following:
  - 1. An authorized full-time technical employee of the manufacturer.

- D. Manufacturer's Installation Instructions: Obtain and maintain on-site access to manufacturer's written recommendations and instructions for installation of products.

#### 1.9 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.
- B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
  - 1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- D. Handle and store roofing materials and place equipment in a manner to avoid permanent deflection of deck.

#### 1.10 PROJECT / FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.
- B. Daily Protection: Coordinate installation of roofing so insulation and other components of roofing system not permanently exposed are not subjected to precipitation or left uncovered at the end of the workday or when rain is forecast.
  - 1. Provide tie-offs at end of each day's work to cover exposed roofing and insulation with a course of roofing sheet securely in place with joints and edges sealed.
  - 2. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing.
  - 3. Remove temporary plugs from roof drains at end of each day.
  - 4. Remove and discard temporary seals before beginning work on adjoining roofing.

#### 1.11 WARRANTY

- A. Manufacturer's Warranty: Roof System Manufacturer's standard form in which Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within warranty period, as follows.
  - 1. Form of Warranty: Manufacturer's standard warranty form.

2. Scope of Warranty: Work of this Section and including sheet metal details and termination details installed by the roof system Installer and approved by the Roof System Manufacturer.
  3. Warranty Period: 20 years from date of completion.
- B. Manufacturer Inspection Services: By manufacturer's technical representative, to report maintenance responsibilities to Owner necessary for preservation of Owner's warranty rights. The cost of manufacturer's inspections is included in the Contract Sum.
1. Inspections to occur in following years: 2, 5, 10 and 15 following completion.
- C. Installer Warranty: Installer's warranty signed by Installer, as follows.
1. Form of Warranty: Form acceptable to Roofing Manufacturer and Owner.
  2. Scope of Warranty: Work of this Section.
  3. Warranty Period: 2 years from date of completion.

## **PART 2 - PRODUCTS**

### **2.1 MANUFACTURERS**

- A. Basis of Design: The roof system specified in this Section is based upon products of Tremco CPG Inc, Beachwood, OH, (800) 562-2728, [www.tremcoroofing.com](http://www.tremcoroofing.com) that are named in other Part 2 articles. Provide specified products. *Local Rep: Kevin Khalili [kkhalili@tremcoinc.com](mailto:kkhalili@tremcoinc.com)*
- B. Source Limitations: Obtain components for roofing system from same manufacturer as membrane roofing or manufacturer approved by membrane roofing manufacturer.

### **2.2 PERFORMANCE REQUIREMENTS**

- A. General Performance: Installed membrane roofing and base flashings shall withstand specified uplift pressures, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Membrane roofing and base flashings shall remain watertight.
1. Accelerated Weathering: Roofing system shall withstand 10,000 hours of exposure when tested according to ASTM G152, ASTM G154, or ASTM G155.
  2. Impact Resistance: Roof membrane shall resist impact damage when tested according to ASTM D3746/D3746M, ASTM D4272/D4272M, or the "Resistance to Foot Traffic Test" in FM Approvals 4470.
- B. Roofing System Design: Provide membrane roofing system that is identical to systems that have been successfully tested by a qualified testing and inspecting agency in accordance with ANSI/FM 4474, UL 580, or UL 1897, and to resist uplift pressures calculated in accordance with ASCE-7 and applicable code.



- C. SPRI Wind Design Standard: Manufacture and install copings and roof-edge flashings tested according to ANSI/SPRI ES-1.
  - 1. Design Pressure: As indicated on Drawings.
- D. Flashings and Fastening: Provide base flashings, perimeter flashings, detail flashings and component materials and installation techniques that comply with requirements and recommendations of the following:
  - 1. FM Global 1-49: Loss Prevention Data Sheet for Perimeter Flashings.
  - 2. FM Global 1-29: Loss Prevention Data Sheet for Above Deck Roof Components.
  - 3. NRCA Roofing Manual (Sixth Edition) for construction details and recommendations.
  - 4. SMACNA Architectural Sheet Metal Manual (Seventh Edition) for construction details.
- E. Exterior Fire-Test Exposure: ASTM E108, Class A; for application and roof slopes indicated, as determined by testing identical membrane roofing materials by a qualified testing agency. Materials shall be identified with appropriate markings of applicable testing agency.

## 2.3 MATERIALS, GENERAL

- A. Material Compatibility: Roofing materials shall be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roof membrane manufacturer based on testing and field experience.

## 2.4 THERMOPLASTIC MEMBRANE MATERIALS

- A. KEE Roof Membrane:
  - 1. Thermoplastic Ketone Ethylene Ester (KEE) coated polyester fabric-reinforced sheet, ASTM D6754.
    - a. Basis of design product: Tremco, TremPly KEE Single Ply Roof Membrane.
    - b. Breaking Strength, minimum, ASTM D751: Machine direction, 500 lbf/in (87 kN/m); Cross machine direction, 400 lbf/in (70 kN/m).
    - c. Tear Strength, minimum, ASTM D751: Machine direction, 120 lbf (162 N/m); Cross machine direction, 140 lbf (190 N/m).
    - d. Elongation at Break, ASTM D751: 20 percent.
    - e. Dynamic Impact/Puncture Resistance, ASTM D5635: 30 J, minimum.
    - f. Minimum Membrane Thickness, nominal, less backing, ASTM D751: 45 mils (1.1 mm).



- g. Accelerated Weathering, ASTM G155 and ASTM G154: Not greater than 15,000 hr., no cracking or crazing.
  - h. Abrasion Resistance, ASTM D3389: Not greater than 2,000 cycles, H-18 wheel, 1,000 g load.
  - i. Color: White.
  - j. Solar Reflectance Index (SRI), ASTM E1980: 110 (White, initial), 86 (White, 3-yr aged).
- B. Sheet Flashing: Manufacturer's standard, smooth-backed, sheet flashing of same material, type, reinforcement, thickness and color as KEE roof membrane.

## **2.5 AUXILIARY ROOFING MATERIALS**

- A. General: Auxiliary membrane roofing materials recommended by roofing system manufacturer for intended use, and compatible with membrane roofing.
  - 1. Liquid-type auxiliary materials shall comply with VOC limits of authorities having jurisdiction.
- B. Flashing Membrane Adhesive: [Same as membrane bonding adhesive.]
  - 1. Bonding adhesive, solvent based fast drying, VOC-compliant, for bonding KEE smooth-backed single ply membranes and flashings to substrates.
    - a. Basis of design product: Tremco, TremPly KEE LV Bonding Adhesive.
    - b. VOC, maximum, ASTM D 3960: 200 g/L.
- C. Metal Termination Bars: Manufacturer's standard, predrilled stainless-steel or aluminum bars, approximately 1 by 1/8 inch (25 mm by 3 mm) thick; with anchors.
- D. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening components to substrate, and acceptable to membrane roofing system manufacturer.
- E. Joint Sealant: Elastomeric joint sealant compatible with roofing materials, with movement capability appropriate for application.
  - 1. Joint Sealant, Polyurethane: ASTM C920, Type S, Grade NS, Class 50 single-component moisture curing sealant, formulated for compatibility and use in dynamic and static joints; paintable.
    - a. Basis of design product: Tremco, TremSEAL Pro.
    - b. Volatile Organic Compounds (VOC), maximum, ASTM D3960: 40 g/L.
    - c. Hardness, Shore A, ASTM C661: 40.

- d. Adhesion to Concrete, ASTM C794: 35 pli.
- e. Tensile Strength, ASTM D412: 350 psi (2410 kPa).
- f. Color: White.

- F. Prefabricated Pipe Flashings: As recommended by roof membrane manufacturer.
- G. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, lap sealants, termination reglets, and other accessories.

## 2.6 ROOF INSULATION MATERIALS

- A. General: Preformed roof insulation boards manufactured or approved by roofing manufacturer, selected from insulation manufacturer's standard sizes, suitable for application, and of thicknesses indicated.
  - 1. Provide preformed saddles, crickets, tapered edge strips, and other insulation shapes where indicated for sloping to drain. Fabricate to slopes indicated, not less than two times the roof slope.
- B. Roof Insulation: Provide roof insulation product in thicknesses indicated in Part 3 as follows:
  - 1. Board Insulation, Polyisocyanurate: CFC- and HCFC- free, with recycled content glass-fiber mat facer on both major surfaces, ASTM C1289 Type II Class 1.
    - a. Basis of design product: Tremco, Trisotech Insulation.
    - b. Compressive Strength, ASTM D1621: [Grade 2: 20 psi (138 kPa)] [Grade 3: 25 psi (172 kPa)].
    - c. Conditioned Thermal Resistance at 75 deg. F (24 deg. C): 14.4 at 2.5 inches (50.8 mm) thick.

## 2.7 ROOF INSULATION ACCESSORIES

- A. Cover Board:
  - 1. Gypsum panel, glass-mat-faced, ASTM C1177/C1177M.
    - a. Basis of design product: Tremco/GP Gypsum DensDeck.
    - b. Thickness: 1/4 inch (6 mm).
- B. Insulation Cant Strips: ASTM C 208, Type II, Grade 1, cellulosic-fiber insulation board.
- C. Tapered Edge Strips: ASTM C 208, Type II, Grade 1, cellulosic-fiber insulation board.

- D. Insulation Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roof insulation and cover boards to substrate, and acceptable to roofing system manufacturer.

## 2.8 SHEET METAL

- A. Counter Flashings:
  - 1. Reuse existing. Replace if damaged with 24ga galvanized steel
  - 2. Accessories as required for complete installation. Accessories to have same finish. Trim as required to provide necessary protection to the membrane flashings.
- B. Edge metals:
  - 1. TremPly KEE Clad Metal
    - a. Min. 3" Face
- C. Metal Coping, Basis of design product: Tremco **Flat Stock; 24ga Standard Colors**
  - 1. Coping system, 24 gauge Kynar 500 (70% minimum) finished
  - 2. Match existing style and color.

## 2.9 WALKWAY MATERIALS

- A. Walkway Material:
  - 1. Walkway roll, reinforced PVC/TPA membrane roll with serrated slip-resistant surface, fabricated for heat welding to compatible PVC/TPA membrane surface.
    - a. Basis of design product: Tremco, TPA Walkway Roll.
    - b. Roll Size: 36 inches by 60 foot (914 mm by 18.3 m).
    - c. Thickness / Color: Gray, 0.072 inch (2 mm).
    - d. Tensile, Grab ASTM D751: 200 lbf (890 N).
    - e. Tear Strength, Tongue: 45 lbf (200N).
    - f. Low Temp Flex: -40 deg F. (-40 deg C.).

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with the following requirements and other conditions affecting performance of roofing system:
  - 1. Verify that roof openings and penetrations are in place and curbs are set and braced and that roof drain bodies are securely clamped in place.

2. Verify that wood cants, blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.
  3. Verify that substrate is sound and dry.
  4. Wood Roof Deck: Verify that deck shows no signs of damage, rot or deterioration, and is securely fastened with no projecting fasteners and with no adjacent units in excess of 1/16 inch (1.6 mm) out of plane relative to adjoining deck.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.
- B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.
- C. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at the end of the workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.

### 3.3 INSTALLATION, GENERAL

- A. Install roofing system in accordance with manufacturer's written instructions and approved details.
- B. Install wood cants, blocking, curbs, and nailers in accordance with requirements of Division 06 Section "Miscellaneous Rough Carpentry."
- C. NRCA Installation Details: Install roofing system in accordance with applicable NRCA Manual Plates and NRCA recommendations; modify as required to comply with manufacturer's approved details and perimeter fastening requirements of FM Global references if applicable.

### 3.4 INSULATION INSTALLATION

- A. Coordinate installing membrane roofing system components so insulation is not exposed to precipitation or left exposed at the end of the workday.
- B. Comply with membrane roofing system and insulation manufacturer's written instructions for installing roof insulation.
- C. Tapered Insulation and Crickets: Install tapered insulation under area of roofing to conform to slopes indicated.
  1. Where crickets are indicated or required to provide positive slope to drain, make slope of crickets minimum of two times the roof slope, not less than 1/4 inch in 12 inches (1:48).

- D. Install insulation under area of roofing to achieve required thickness. Where overall insulation thickness is 2.7 inches or greater, install two or more layers with joints of each succeeding layer staggered from joints of previous layer a minimum of 6 inches (150 mm) in each direction.
    - 1. Flat Insulation System on Sloped Roof Deck: Install insulation at minimum thickness as follows:
      - a. Minimum Continuous Insulation R-value: Not less than R-10.
    - 2. Insulation Drain Sumps: Tapered insulation sumps, not less than 2 by 2 ft. (600 by 600 mm), sloped to roof drain.
  - E. Trim surface of insulation where necessary at roof drains so completed surface is flush and does not restrict flow of water.
  - F. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4 inch (6 mm) with insulation.
    - 1. Cut and fit insulation within 1/4 inch (6 mm) of nailers, projections, and penetrations.
  - G. Mechanically Fastened Insulation: Install each layer of insulation and secure to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type.
    - 1. Fasten insulation to resist uplift pressure at corners, perimeter, and field of roof.
  - H. Cover Boards: Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Offset joints of insulation below a minimum of 6 inches (150 mm) in each direction. Loosely butt cover boards together.
    - 1. Secure cover boards Secure cover boards to resist uplift pressure at corners, perimeter, and field of roof.
    - 2. Mechanically fasten cover boards.
- 3.5 MECHANICALLY FASTENED MEMBRANE ROOFING INSTALLATION
- A. Mechanically fasten membrane roofing over area to receive roofing and install according to roofing system manufacturer's written instructions.
    - 1. For in-splice attachment, install membranes roofing with long dimension perpendicular to steel roof deck flutes.
  - B. Start installation of membrane roofing in presence of roofing system manufacturer's technical personnel.
  - C. Accurately align membrane roofing and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.

- D. Mechanically fasten or adhere membrane roofing securely at terminations, penetrations, and perimeter of roofing.
- E. Apply membrane roofing with side laps shingled with slope of roof deck where possible.
- F. Welded Seams: Clean seam areas, overlap membrane roofing, and hot-air weld side and end laps of membrane roofing and sheet flashings according to manufacturer's written instructions to ensure a watertight seam installation.
  - 1. Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of sheet membrane.
  - 2. Verify field strength of seams a minimum of twice daily and repair seam sample areas.
  - 3. Repair tears, voids, and lapped seams in roofing that does not comply with requirements.
- G. Spread sealant bed over deck drain flange at roof drains and securely seal membrane roofing in place with clamping ring.

### 3.6 DRAINS COVERS

- A. Replace any plastic, missing and/or damaged drain covers with new cast iron cover to match existing.

### 3.7 BASE FLASHING INSTALLATION

- A. Install sheet flashings and preformed flashing accessories and adhere to substrates according to membrane roofing system manufacturer's written instructions.
- B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate and allow to partially dry. Do not apply to seam area of flashing.
- C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
- D. Clean seam areas, overlap, and firmly roll sheet flashings into the adhesive. Hot-air weld side and end laps to ensure a watertight seam installation.
- E. Seal top termination of base flashing with a metal termination bar and a continuous bead of joint sealant.
- F. HVAC CURBS:
  - 1. All equipment on platform type curbs: units are to be lifted in place and pan/curb is to be roofed over with KEE Membrane.
  - 2. No new equipment or conduits are to be installed or reinstalled into top of curb without review by Owner. Work with Owner to relocate mounting points away from curb's roofing material/base flashings.
  - 3. Reuse existing sheet metal pans; if rusted or damaged Notify Owner before proceeding to reinstall.

### 3.8 SHEET METAL FLASHINGS

- A. All metal work shall be completed in conjunction with the roofing and flashing operation so as to provide a daily watertight condition.
- B. Fabricate and install flashing to comply with Manufactures standard details, project drawings and the recommendations of SMACNA Sheet Metal Manuals for fabrication and Factory Mutual Loss Prevention Data Sheet I-49.
- C. Metal shall be installed to provide adequate resistance to bending and to allow for normal thermal expansion and contraction. Allow for minimum 1/4" space between metal joints.
- D. Counter flashing design, shape and fastening pattern will be determined by the existing wall system whether concrete, block, wood or stucco. Shall be minimum 24-gauge with 1/2" closed hem. Counter flashing system will be included in the warranty
  - 1. Replace existing counter flashings and trims with galvanized unless directed otherwise.
- E. Metal Coping:
  - a. Continuous cleats on outside, fasteners with EPDM washers, fasten on inside face.
  - b. Provide pressure treated wood nailer where missing.
  - c. Provide tight fitting cover plates at all joints. No fastener shall penetrate the top of the coping cap.
  - d. COPING MUST SLOPE INWARD TO ROOF.
- F. Perimeter Edge Metal Flashings:
  - 1. Shall have a 3" minimum nailing flange and hemmed metal drip edge unless noted.
  - 2. Fasten metal flashings 3" o.c. using galvanized annular ring nails.
  - 3. Install adjacent pieces of coated metal flashing with 1/4" gap. Apply a 2" wide bond breaker tape. Hot air weld a 6" strip of TPA membrane, over the tape, to each piece of flashing to form a watertight splice.
  - 4. Continuous cleats are required on edge metal facias with a face height larger then 3".

### 3.9 WALKWAY INSTALLATION

- A. Flexible Walkways: Install walkway products in locations indicated on drawings and at serviceable equipment. Heat weld to substrate or adhere walkway products to substrate with compatible adhesive according to roofing system manufacturer's written instructions.

### 3.10 FIELD QUALITY CONTROL

- A. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion.



- B. Repair or remove and replace components of membrane roofing system where inspections indicate that they do not comply with specified requirements.
- C. Additional inspections, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.11 PROTECTING AND CLEANING

- A. Protect membrane roofing system from damage and wear during remainder of construction period. When remaining construction will not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Owner's Consultant and Owner.
- B. Correct deficiencies in or remove membrane roofing system that does not comply with requirements; repair substrates; and repair or reinstall membrane roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 075416

**ATTACHMENT A**

**DISTRICT SUPPLIED MATERIALS**

The following material list is to be included in the bid form and signed/dated by the Contractor. Failure to provide this information will render bid unresponsive. The Owner is purchasing the following list of materials from the CMAS contract #4-25-02-1015. Only these materials, in the quantities listed, will be supplied.

The Contractor is responsible for purchasing any and all additional materials directly from the roofing material manufacturer at the Contractor's cost. The Contractor is also responsible for ALL other items not on this list necessary for the completion of the work specified. This includes, but is not limited to, fasteners, wood components, insulation, tapered insulation, cants, taper edge strips, sheet metal, warranty charges, inspections, and other consumable materials.

The unloading of material and the storage of said material in a secure area is the sole responsibility of the Contractor. Any unused materials including waste will become the property of the Contractor at the completion of the project.

**District Supplied Materials for Pinetree Comm. Elementary School Project:**

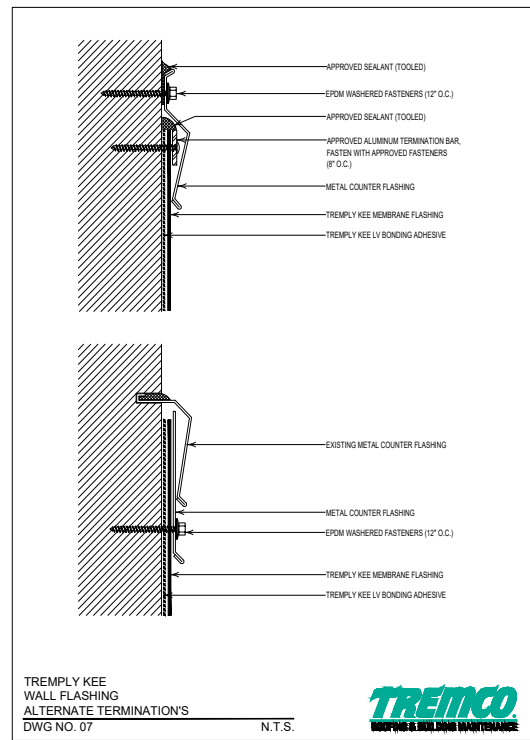
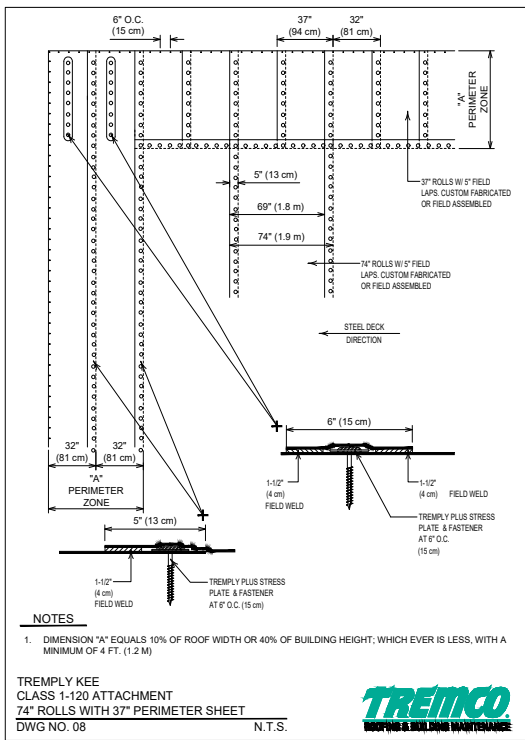
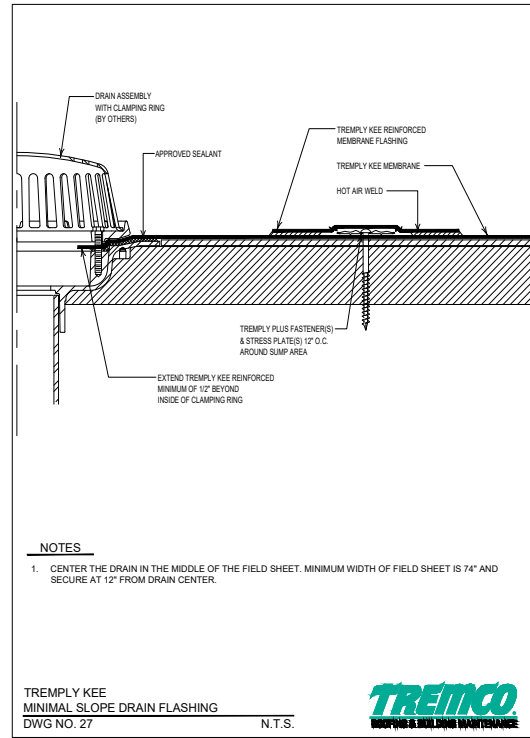
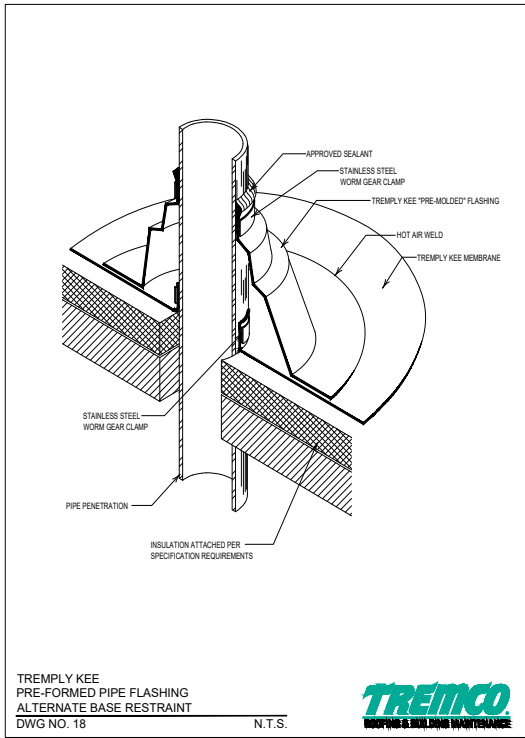
- 1. TremPly KEE 45mil 74"x100' item# 8533645503: (31) Rolls**
- 2. TremPly KEE 45mil 37"x100' item# 8533245503: (30) Rolls**

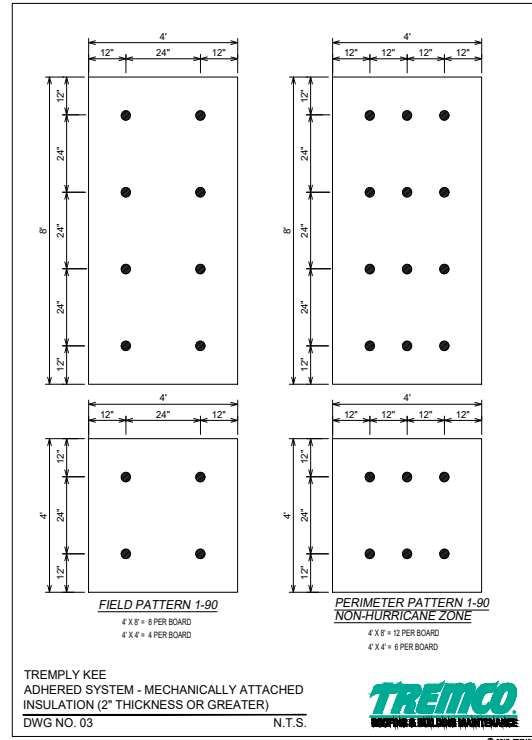
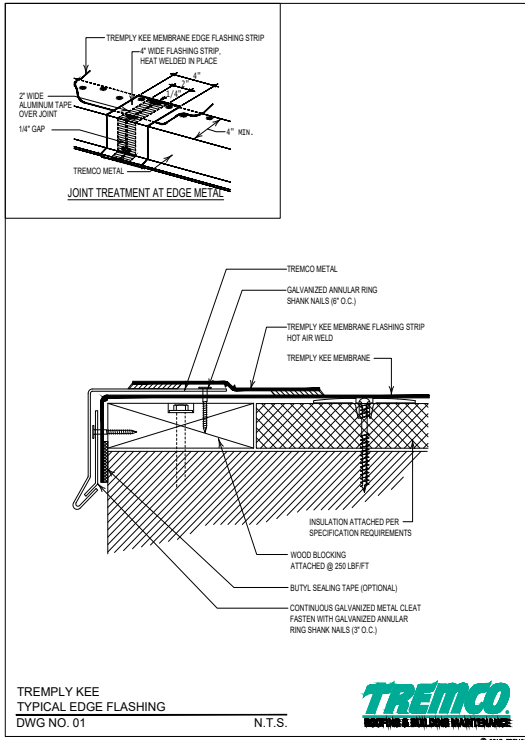
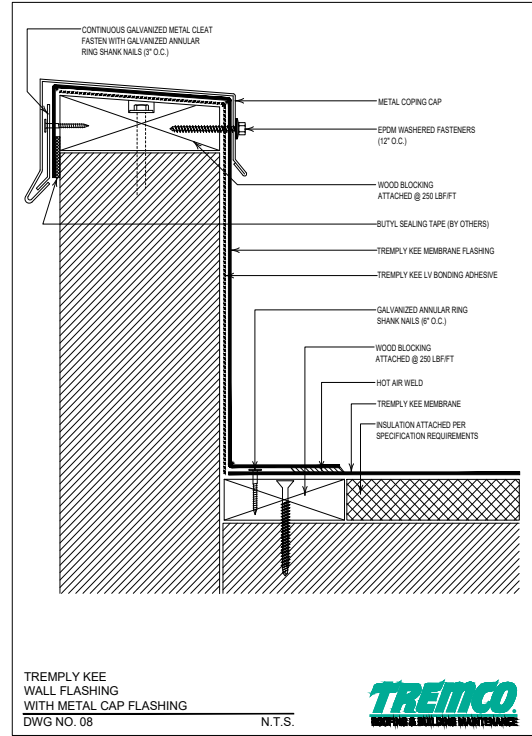
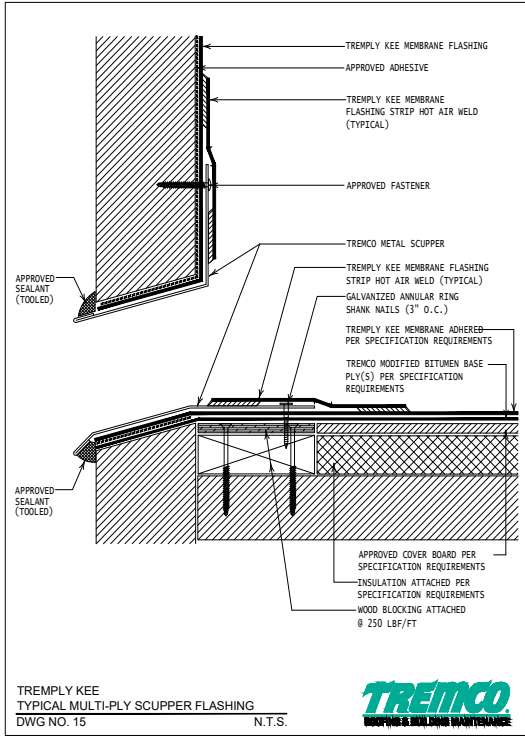
**Bidding Contractor:** \_\_\_\_\_

**Contractor Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

*End.*





**SECTION 00 41 13 – QUOTATION FORM (UPDATED)  
(Sample Quotation Form / Place on Company Letterhead)**

April \_\_\_\_, 2025

Name of contact  
Title  
Street address  
City, State and Zip Code

Re: **2025 Roofing Project-  
Pinetree Community Elementary School  
Upper and Lower Building- All flat roof levels**

Dear \_\_\_\_\_,

Having carefully examined the instructions for quotations, project specifications, drawings, supporting documents and addenda issued prior to this date, we propose to furnish all labor, and materials additional to those the District is providing via CMAS Attachment A, equipment, transportation and other services required to successfully accomplish the work in accordance with the project documents.

**NAME/DESCRIPTION:**

**Proposal #1-**

Upper and Lower Building- All flat roof levels

Tear off and replacement with new insulation, dens deck and 45mil KEE:\$ \_\_\_\_\_.00

**Proposal #2-**

Upper and Lower Building- All flat roof levels

Retrofit over existing roof with new insulation, dens deck and 45mil KEE:\$ \_\_\_\_\_.00

- A. Addendum: The Proposer has received addendum numbers \_\_\_\_\_ and incorporated provisions of such addendums in this quotation.

The Owner and their representatives reserve the right to waive any irregularities, to reject any or all bids, or to accept any bids. The award of the Contract will be to the responsible Proposer whose price for an individual school, or a number of schools, represents the best price value for the Owner.

Executed on \_\_\_\_\_, 20\_\_\_\_.

Contractor: \_\_\_\_\_

By: \_\_\_\_\_

Whose address is:

\_\_\_\_\_  
\_\_\_\_\_