WEST OTTAWA PUBLIC SCHOOLS

Riley Farms Elementary Safety/Security Film

Request for Sealed Bids

All bids are due by Thursday, January 29, 2026 at 1:00 PM

Contact Information:
Tom Swifney
Director of Buildings and Grounds
3600 152nd Ave.
Holland, MI 49424
Phone: 616-786-2030
Email: swifneyt@westottawa.net

Notice to Bidders

Riley Farms Elementary Safety/Security Film

West Ottawa Public Schools will accept sealed bids for Riley Farms Elementary Safety/Security Film installation as described in the attached specifications. Bids will be accepted until 1:00 PM local time, Thursday, January 29, 2026, at which time they will be publicly opened and read aloud. No oral, telephonic, telegraphic, e-mail or facsimile proposals will be accepted.

Bid submissions shall be firm for ninety (90) days from the date of bid opening. Bids must be submitted on the attached bid form and be signed by the bidder. Two (2) signed copies of the bid form should be addressed to the attention of:

Chris Lahaie
West Ottawa Public Schools
Administration Building
1138 – 136th Avenue
Holland, MI 49424
Re: Riley Farms Safety/Security Film

All bids shall be accompanied by a sworn statement disclosing any familial relationship that exists between the owner(s) or any employee of the bidder and any member of the WOPS Board of Education or the Superintendent of West Ottawa Public Schools. The WOPS Board of Education shall not accept a bid that does not include a sworn and notarized familial relationship disclosure statement. All bids shall include an Affidavit of Compliance – Iran Economic Sanctions Act in compliance with "Iran linked business" within the meaning of the Iran Economic Sanctions Act. A PLM bond is required for all bids exceeding $50,000. and should remain separate from base bid. Bids must be marked on the envelope, "Riley Farms Safety/Security Film," and the bidder's name must be identified on the envelope. Bids should be addressed to Chris Lahaie, Associate Superintendent for Business Services, West Ottawa Public Schools. West Ottawa Public Schools reserves the right to accept or reject all or any portion of a bid, and is not bound to accept the low bid. A bid may be rejected, if not accompanied by any data required by the Bidding Documents, or which is in any way incomplete or irregular. West Ottawa Public Schools shall have the right to waive informalities or irregularities in a bid received, and to accept a bid which, in the judgment of West Ottawa Public Schools, is in the best interests of West Ottawa Public Schools.

Questions should be directed to Tom Swifney, Director of Buildings & Grounds at 616 786-2030.

Specifications for
Riley Farms Elementary Safety/Security Film

General Requirements

I. Scope of Work

The District desires to obtain bids for the installation of safety/security film at all exterior windows at Riley Farms Elementary.

- Installation of Safety/Security Film at ALL exterior windows and doors
- Caulking of safety/security film once cured per manufacturers specs
- Prepping of window surfaces prior to installation
- Clean-up and removal of all materials needed to complete the job
- Installation is desired to begin on June 8th of 2026 and work is to be completed in its entirety by August 7th of 2026

II. Bid documents

II. Specifications

General

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

Summary

A. Section Includes
   1. Safety and security window film.
   2. Film attachment systems.

B. Related Sections
   1. Section 08 41 13 – Aluminum Entrances and Storefront
   2. Section 08 51 13 – Aluminum Windows
   3. Section 08 80 00 – Glazing

Reference Standard

A. ASHRAE - American Society for Heating, Refrigeration, and Air Conditioning Engineers; Handbook of Fundamentals.

B. ASTM International (ASTM):
   1. ASTM D882 - Standard Test Method for Tensile Properties of Thin Plastic Sheeting.
   2. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers -- Tension.
   3. ASTM D624 - Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers

4. ASTM D1004 - Standard Test Method for Tear Resistance (Graves Tear) of Plastic Film and Sheeting.
5. ASTM D1044 - Standard Method of Test for Resistance of Transparent Plastics to Surface Abrasion (Taber Abrader Test).
6. ASTM D2240 - Standard Method for Rubber Property - Durometer Hardness.
7. ASTM D2582 - Standard Test Method for Puncture-Propagation Tear Resistance of Plastic Film and Thin Sheeting.
8. ASTM D5895 - Standard Test Methods for Evaluating Drying or Curing During Film Formation of Organic Coatings Using Mechanical Recorders.
9. ASTM D4830 - Standard Test Methods for Characterizing Thermoplastic Fabrics Used in Roofing and Waterproofing.
10. ASTM E84 - Standard Method of Test for Surface Burning Characteristics of Building Materials.
11. ASTM E903 - Standard Methods of Test for Solar Absorbance, Reflectance and Transmittance of Materials Using Integrating Spheres.
12. ASTM E1886 - Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.
13. ASTM E1996 - Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes.
14. ASTM F1642 - Standard Method of Test for Glazing and Glazing Systems Subject to Airblast Loadings
15. ASTM F2912 - Standard Specification for Glazing and Glazing Systems Subject to Airblast Loadings

C. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test.
D. Consumer Products Safety Commission 16 CFR, Part 1201 - Safety Standard for Architectural Glazing Materials.
E. GSA-TS01-2003 -- Standard Test for Glazing and Glazing Systems Subject to Airblast Loadings.
F. ISO 16933, International Standard for Glass in Building: Explosion-resistant security glazing - Test and classification for arena air-blast testing.
G. Underwriters Laboratories Inc. (UL): UL 972 - Burglary Resisting Glazing Material.

Coordination

A. Coordinate all work with the job site superintendent and all applicable trades.

Submittals

A. General: Comply with provisions of Section 01 33 00.
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 methods.
C. Test Reports: Third Party test reports indicating compliance with the test values specified for safety and security window film, film attachment system, and

documentation of compliance for complete system.

D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
E. Verification Samples: For each finish product specified, two samples representing actual product, color, and patterns.
F. Performance Submittals: Provide laboratory data of emissivity and calculated window U-Factors for various outdoor temperatures based upon established calculation procedure defined by the ASHRAE Handbook of Fundamentals, Chapter 29, or Lawrence Berkeley Laboratory Window 5.2 Computer Program.

Quality Assurance

A. Manufacturer Qualifications: All primary products specified in this section will be supplied by a single manufacturer with a minimum of ten years' experience.
   1. Provide documentation that the adhesive used on the specified film is a Pressure Sensitive Adhesive (PSA).
B. Installer Qualifications: All products listed in this section are to be installed by a single installer with a minimum of five years demonstrated experience in installing products of the same type and scope as specified.
   1. Provide documentation that the installer is authorized by the Manufacturer to perform work specified in this section.
   2. Provide a commercial building reference list of 5 properties where the installer has applied window film. This list will include the following information:
      a. Name of building.
      b. The name and telephone number of a management contact.
      c. Type of glass.
      d. Type of film and/or film attachment system.
      e. Amount of film and/or film attachment system installed.
      f. Date of completion.
   3. Provide a Glass Stress Analysis of the existing glass and proposed glass/film combination as recommended by the film Manufacturer.
   4. Provide an application analysis to determine available energy cost reduction and savings.
C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
   1. Finish areas designated by Architect.
   2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
   3. Refinish mock-up area as required to produce acceptable work

Delivery, Storage and Handling

A. Follow Manufacturer's instructions for storage and handling.
B. Store products in manufacturer's unopened packaging until ready for installation.
C. Store and dispose of any hazardous materials, and materials contaminated by hazardous materials, in accordance with requirements of local authorities having jurisdiction.

Field Conditions

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

Warranty

A. At project closeout, provide to Owner's Representative an executed current copy of the manufacturer’s standard limited warranty against manufacturing defect, outlining its terms, conditions, and exclusions from coverage.

PRODUCTS

Safety and Security Window Film

A. Clear Safety and Security Window Film: Optically clear polyester film with a durable acrylic abrasion resistant coating over one surface and a pressure sensitive adhesive over the other. The adhesive is pressure-activated, not water-activated, and forms a physical bond, not chemical bond, to the glass. The film may be laminated to other clear polyester film layers to achieve the desired thickness of the film.
   1. Products:
      a. 3M Commercial Solutions – Safety S80.
      b. Llumar, Eastman Performance Films, LLC – SCL SR PS8
      c. Solar Gard, Saint-Gobain Performance Plastics – Armorcoat 8 Mil.
      d. Substitutions: See Section 01 33 00 – Submittals and Substitutions.
   2. Physical / Mechanical Performance Properties:
      a. Film Color: Clear.
      b. Thickness: Nominal 8 mils.
      c. Tensile Strength (ASTM D 882): 25,000 psi.
      d. Break Strength (ASTM D 882): 200 lbs/in
   3. Uniformity: No noticeable pin holes, streaks, thin spots, scratches, banding or other optical defects. Variation in Total Transmission across the Width: Less than 2 percent over the average at any portion along the length.
   4. Identification: Labeled as to Manufacturer as listed in this Section.
   5. Solar Performance Properties: Film applied to 1/4 Inch (6 mm) thick clear glass.
      a. Visible Light Transmission (ASTM E 903): 87 percent.
      b. Ultraviolet Transmission (ASTM E 903): Less than 1 percent.
   6. Safety Glazing Impact Performance: 400 ft-lbs impact resistance, meeting ANSI Z97.1 (Class A, Unlimited) and 16 CFR 1201 (Category 2) impact requirements with film applied on 1/4-inch annealed glass.
   7. Adhesion to Glass: Minimum 2 lbs/in peel strength per ASTM D3330 (Method A).
   8. Flammability: Surface burning characteristics when tested in accordance ASTM E 84, demonstrating film applied to glass rated Class A for Interior Use:
      a. Flame Spread Index: no greater than 25.
      b. Smoke Developed Index: no greater than 450.
   9. Abrasion Resistance:
      a. Film shall have a surface coating that is resistant to abrasion such that less than 5 percent increase of transmitted light haze will result when tested in accordance with ASTM D 1044 using 100 cycles, 500 grams weight, and the CS10F Calibrase Wheel.

10. Forced Entry Protection: Independent lab testing according to UL 972 protocol (Multiple impact Test).
    a. Annealed Glass (1/4 inch) - Pass
    b. Tempered Glass (1/4 inch) - Pass

Film Attachment Systems

A. Provide third party tested system for film and attachment that meets or exceeds values listed within this specification section. See Submittals for documentation requirements.
1. Wet Glazed Film Attachment: Weatherable, UV-resistant, moisture curable structural sealant wet glaze.
    a. Basis-of-Design Product: Subject to compliance with requirements, provide 3M Impact Protection Adhesive (IPA); as specified here or a comparable product by one of the following:
        1) The Dow Chemical Company; DOWSIL 995 Silicone Structural Sealant. Provide documentation to indicate compliance with requirements of this Section.
        2) Substitutions: See Section 01 33 00 – Submittals and Substitutions.
    b. Color: Black.
    c. Uniformity: Product shall have uniform consistency and appearance, with no clumping.

EXECUTION

Examination

A. Film Examination:
1. If preparation of glass surfaces is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
2. Glass surfaces receiving new film should first be examined to verify that they are free from defects and imperfections, which will affect the final appearance.
3. Do not proceed with installation until glass surfaces have been properly prepared and deviations from manufacturer's recommended tolerances are corrected. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result under the project conditions.
4. Commencement of installation constitutes acceptance of conditions.

B. Wet Glazed Film Attachment Examination:
1. If application of window film is/was the responsibility of another installer, notification in writing shall be made of deviations from manufacturer's recommended installation tolerances and conditions.
2. Filmed glass surfaces receiving new attachment should first be examined to verify that they are free from defects and imperfections, and that the film edges extend sufficiently to the frame edges.
3. Do not proceed with installation until film and frame surfaces have been properly prepared and deviations from manufacturer's recommended tolerances are corrected. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result under the project conditions.
4. Conduct an adhesion test to the frame surface may be conducted by applying a 4 - 6-inch long bead, approximately 0.5 - 1 inch in width, masking one side of the frame surface underneath the strip with tape. Allow the adhesive to cure for 7 days and test adhesion by

pulling up on the masked end and a 90-degree angle. If cohesive failure is observed (adhesive residue left behind on the frame surface), adhesion is acceptable; if adhesive failure is observed (clean peel from the frame), adhesion is unacceptable, and product is not recommended.

Preparation

A. Clean surfaces thoroughly prior to installation.
B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
C. Refer to Manufacturer's installation instructions for methods of preparation for film attachment systems.

Installation

A. Film Installation:
1. Install in accordance with manufacturer's instructions.
2. Cut film edges neatly and square at a uniform distance of 1/8 inch (3 mm) to 1/16 inch (1.5 mm) of window sealant. Use new blade tips after 3 to 4 cuts.
3. Spray the slip solution, composed of one capful of baby shampoo or dishwashing liquid to 1 gallon of water, on window glass and adhesive to facilitate proper positioning of film.
4. Apply film to glass and lightly spray film with slip solution.
5. Squeegee from top to bottom of window. Spray slip solution to film and squeegee a second time.
6. Bump film edge with lint-free towel wrapped around edge of a 5-way tool.
7. Upon completion of film application, allow 30 days for moisture from film installation to dry thoroughly, and to allow film to dry flat with no moisture dimples when viewed under normal viewing conditions.

B. Wet Glazed Film Attachment Installation:
1. The film attachment system shall be applied according to the specifications of the Manufacturer by an Authorized Dealer/Applicator. Refer to Manufacturer’s instructions.
a. For blast hazard mitigation: minimum 1/2-inch bead overlap on both frame and film (excluding glazing stops or compression gaskets).
b. For impact resistance and building envelope protection: minimum 3/8-inch bead overlap on both frame and film (excluding glazing stops or compression gaskets).
2. To ensure a straight and consistent bead width is achieved, masking tape may be applied to film and frame surfaces prior to application.
3. With prior approval of the building owner or property manager, existing compression gaskets may be partially removed or trimmed to allow for a thinner bead and stronger anchorage. If removing the gaskets, sections shall be trimmed approximately 3 inches in length and inserted with appropriate spacing along all sides of the window to help secure the glazing during application and curing of the adhesive.
4. The adhesive shall be dispensed with a caulk gun with nozzle opening diameter sized to match the approximate size of the desired bead width.
5. A plastic putty knife or other tool with a clean straight edge shall be used to trowel and smooth out the adhesive. The completed adhesive bead shall be relatively triangular in shape.

6. Any masking tape used shall be carefully removed within 10 minutes after applying the wet glaze.

Cleaning and Protection

A. Remove left over material and debris from Work area. Use necessary means to protect film before, during, and after installation.
B. Touch-up, repair or replace damaged products before Substantial Completion.
C. After application of film, wash film using common window cleaning solutions, including ammonia solutions, 30 days after application. Do not use abrasive type cleaning agents and bristle brushes to avoid scratching film. Use synthetic sponges or soft cloths.

AFFIDAVIT OF BIDDER

The undersigned, owner or authorized officer of _____ (the bidder), pursuant to the familial disclosure requirement, hereby represent and warrant that no familial relationships exist between the bidder or any employee of the bidder, and any member of the Board of Education of West Ottawa Public Schools or the Superintendent of the District.

BIDDER:

_____
(Company Name)

By:_____
(Signature)

Title:_____

STATE OF MICHIGAN)
) SS.
COUNTY OF_____)

This instrument was acknowledged before me on the _____ day of _____ 26_.

_____
(Notary Public Signature)

_____ County, Michigan

My commission expires:_____

Acting in the county of:_____

IRAN LINKED BUSINESS AFFIDAVIT

All Bids shall be accompanied by a sworn statement disclosing any Iran Linked Business relationship that exists within the owners, including its officers, directors and employees.

The undersigned, owner or authorized officer of _____ (the bidder), pursuant to Michigan Public Act No. 517 of 2012, the "Iran Linked Business" requirement provided in the Ottawa Area ISD Universal Service Fund Request for Proposals hereby represents and warrants that the bidder, including its officers, directors and employees, is not an "Iran Linked Business" within the meaning of the applicable Public Act, and that in the event bidder is awarded a contract as a result of this RFP, the bidder will not become an "Iran Linked Business" at any time during the course of performing under the contract. The bidder further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than $250,000.00 or 2 times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of the District investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on future Requests for Proposals (RFPs) for three (3) years from the date that it is determined that the person has submitted the false certification.

There is not an "Iran Linked Business" that exists within the bidder and/or owner, officers, directors and employees.

Bidder: _____
(Company Name)

By: _____
(Signature)

_____
(Title)

This instrument was acknowledged before me, a Notary Public, in and for

_____ County, on this _____day of _____, 20__,

_____ **SS:**

(Notary Public Signature)

My Commission expires: _____

Acting in the County of: _____

West Ottawa Public School

Request for Proposal ("RFP")

RILEY FARMS ELEMENTARY SAFEY SECURITY FILM INSTALLATION

The undersigned, agrees to provide the services as described in the Specifications to complete the INSTALL SAFETY AND SECURITY FILM AT RILEY FARMS ELEMENTARY.

Total Cost **Base Bid** $_____

PLM Bond $_____

Exclusions and additions:
-Detailed in bid proposal-

As defined below

_____

_____

_____

_____

_____

_____

Name of Company: _____

Address: _____

_____

Authorized Company Representative:

_____

_____

_____

Signature: _____ Date: _____