The Town of Trumbull, Connecticut (hereinafter referred to as Town), through the Office of the Purchasing Agent, will accept sealed bids from a qualified company (hereinafter referred to as vendor, firm or bidder) to The Town of Trumbull on the behalf of the Board of Education for installation of Safety and Security Window Film for the Trumbull Board of Education in accordance with the enclosed Terms and Conditions, Specifications, and requirements.

There are 11 building locations where film is to be installed. The film, in general, is to be installed at the front entrances of each building and at the main office locations. Diagrams of each building have been attached to the bid with specific locations.

Film will be installed on all glass in the doors and transoms in these locations up to the height of the doors (glass above door height is not included). It is up to each bidder to visit the locations and measure the window sizes.

Vendors can visit these sites independently once setting up a general appointment by calling the BOE Plant Operations office, 203-452-4306. When visiting each school location, vendors MUST check in at the main office of each school to announce their presence.

1. **PREPARATION OF PROPOSALS**

   Bids shall be submitted by using the BID PROPOSAL FORM that accompanies this request. Submit one (1) ORIGINAL and one (1) EXACT COPY. Bidders should submit bids in a clear, concise and legible manner to permit proper evaluation of responsive bids.

2. **BID SUBMISSION**

   Bids are to be submitted in a sealed envelope clearly marked and addressed as follows:

   **Bid 6159 due: JANUARY 12, 2016**

   Purchasing Agent
   Kevin J Bova
   Town of Trumbull
   5866 Main Street
   Trumbull, CT 06611

   Please be advised that the person signing the formal proposal must be authorized by your organization to contractually bind your firm with regard to prices and related contractual obligations for the delivery period requested.

   No oral, telephonic, or faxed proposals will be considered. Corrections, deletions, or additions to the Quotation may be made by wire, provided such wires are received in correct and comprehensive form prior to the opening time of Quotation, and confirmed by letter. No telephone corrections, deletions, or additions will be accepted. The Town reserves the right to reject any or all Quotation, and to waive any or all formalities in connection therewith.
3. **BID TIME**  
   a) Quotation shall be received at the office of the Purchasing Agent, Town Hall, prior to the advertised hour of opening, at which time all proposals will be publicly opened and read aloud.  
   b) A bidder may withdraw a proposal at any time prior to the above scheduled date and time. Any bid received after the above scheduled date and time shall not be considered or opened.  

4. **TOWN OPTIONS**  
   a) The Town reserves the right to reject any or all Quotation and to waive any requirements, irregularities, technical defects or service therein when it is deemed to be in the best interest of the Town.  
   b) If your proposal does not meet or better the required specifications on all points, which must be outlined in a letter, otherwise it will be presumed that a proposal is in accordance with the required specifications.  
   c) The Town of Trumbull-Board of Education reserves the exclusive right to determine whether or not a proposal meets or exceeds the stated specifications.  

5. **TAXES**  
   All purchases made by the Town, and associated with the award of this requirement shall be tax exempt. Any taxes must not be included in bid prices. A Town Tax Exemption Certificate shall be furnished upon request.  

6. **INQUIRIES AND SITE VISITS**  
   a) All inquiries regarding this request shall be answered up to January 5, 2016 @ 5 PM close of Business after which time no additional questions will be accepted. To ensure consistent interpretation of certain items, answers to questions the Town deems to be in the interest of all bidders will be made available in writing or by Fax as appropriate to all bidders. Inquiries of a technical nature may be directed to Stephen Kennedy (203-452-4306) Facilities, Trumbull Board of Education Demingm@trumbullps.org. All other questions may be directed to Kevin Bova, Purchasing Agent (203.452.5042) kbova@trumbull-ct.org .  
   b) Additionally, after proposals are received, the Town reserves the right to communicate with any or all of the bidders to clarify the provisions of Proposals. The Town further reserves the right to request additional information from any bidder at any time after proposals are opened.  
   c) It is the sole responsibility of the responding firm to verify any addendums that may have been issued relating to this request prior to submission of a proposal. Failure to submit a bid or proposal that does not address any changes or addendums may result in a disqualification of a bid submission.  

7. **AWARD AND AUTHORITY**  
   The Town Purchasing Agent will issue notification of award in writing and a standard contract. The Town Purchasing Agent will issue a purchase order.  

8. **PRICING**  
   All prices quoted are to be firm for a period of ninety (90) days following bid opening. Special Consideration will be given to responses that can expedite the work. The Town is always interested in any and all cost reduction opportunities.  

9. **ASSIGNMENT OF RIGHTS, TITLES, AND INTERESTS**  
   Any assignment or subcontracting by a bidder, vendor, or contractor for work to be performed, or goods and/or services to be provided, in whole or in part, and any other interest in conjunction with Town procurement shall not be permitted without the express written consent of the Town of Trumbull.  

10. **HOLD HARMLESS CLAUSE**  
    The Bidder further agrees to indemnify, hold harmless and defend the Town /BOE from and against any and all liability for loss, damage or expense which the Town may suffer or for which the Town may be held liable by reason of injury, including death, to any person or damage to any property arising out of or in any manner connected with the operations to be performed under this Contract, whether or not due in whole or in part of any act, omission or negligence of the Owner or any of his representatives or employees.
11. **WORK REGULATIONS AND STANDARDS**
All work activities performed in association with this request must be performed and completed for the Town in accordance with current Federal State and Local regulations. All services performed shall also conform to the latest OSHA standards and/or regulations.

12. **CONFLICT OF INTEREST**
Public officials shall be prohibited from receiving any town work procured through a public bid or bid waived process so as to avoid any appearance of impropriety or conflict of interest; and; Public officials cannot circumvent the intent of this ordinance by receiving town work through a bid waiver, as proscribed by the Trumbull Town Charter.

13. **ADENDUMS**
It is the responsibility of the bidder to verify prior to final submittal of a bid or bid if any addenda to this request have been issued. Any addenda to this request shall be posted on the Town of Trumbull website www.trumbull-ct.gov under the Purchasing Department's section. Bidders may also call the Purchasing Department directly 203.452.5042 for inquiries regarding addenda. It is the sole responsibility of a bidder to verify any addendums that may have been issued relating to this request prior to submission of a proposal. Any notice of addendum shall be published on the Purchasing Department Website www.trumbull-ct.gov. Failure to submit a response that does not address any changes or addendums may result in a disqualification of a proposal submission.

14. **REFERENCES**
All responders to this request shall submit with their proposal (See Attached Form) at least three (3) references for similar services and products specified supplied to other towns, cities or municipalities herein. (List primary contact names, addresses and phone numbers, etc.). It is the intention of the Town to contact all references listed.

15. **INSURANCE**
The selected proposer shall provide the Town Purchasing Agent with a Certificate of Insurance before any work commences. The Town shall be named as an additional insured from Insurance Company licensed to write such insurance in Connecticut, against the following risks and in not less than the following amounts:

<table>
<thead>
<tr>
<th>Liability</th>
<th>Each Person</th>
<th>Each Occurrence</th>
<th>Aggregate</th>
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<tbody>
<tr>
<td>Worker’s Compensation</td>
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<tr>
<td>Contractor’s Public Liability</td>
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<td>Property Damage</td>
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<tr>
<td>Comprehensive Automobile Liability</td>
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<tr>
<td>Bodily Injury</td>
<td>$1,000,000</td>
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<td>Property Damage</td>
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<tr>
<td>Property Damage</td>
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</tr>
</tbody>
</table>

Such policies shall provide that no coverage shall be changed or cancelled unless thirty- (30) day’s prior notice of such change or cancellation shall be made to the owner. Such notice shall be made by registered mail; postage prepaid, to the Purchasing Agent, Town of Trumbull, Town Hall, Trumbull, Connecticut 06611.
In the event of cancellation, the selected proposer shall cease all operations on or before the effective date of said cancellation and he shall not commence work again until he has obtained replacement insurance and has delivered a Certificate of Insurance to the office of the Owner’s Purchasing Department.

16. **WARRANTIES**
A copy of all applicable warranties must be submitted in full detail. Minimum of a 10 year warranty from vendor and manufacturer.

17. **DELIVERY**
Installation shall be scheduled with the BOE Plant Operations Department. All work must be done in a manner that will not interfere with student work of the safety of the building occupants. All bidders should include the cost of any work that may be disruptive to the school and may need to be performed off-hours (weekends, evening).

18. **SPECIFICATIONS**
   a) Each Bidder will be held responsible to have studied the Specifications, visit the sites (if necessary), regarding the proposed work, satisfied itself regarding all existing conditions and measurements, and to have included in the proposal an amount sufficient to cover all work.
   b) Should any Bidder find discrepancies in the Specifications, or be in doubt as to the exact meaning, notify the Town at once. The Town may then, at their option, issue Addenda clarifying same. The Town shall not be responsible for oral instructions or misinterpretations of Specifications.
   c) The Town reserves the right to issue Addenda at any time prior to the Bid Opening. All such Addenda become, upon issuance part of the Specification. Each Bidder shall cover such Addenda in the proposal and shall acknowledge receipt of same on the blank provided therefore. It is the bidders’ responsibility to access the Town’s website or contact the Town for any addenda that may be issued in conjunction with this bid.
   d) The Town reserves the right to require any or all Bidders to submit statements as to previous experience in performing comparable work; and as to financial and technical organizations and resources available for this work. The mere opening and reading aloud of a bid shall not constitute or imply the Town’s acceptance of the suitability of a Bidder or the bid, nor shall possession of Drawings or Specifications constitute an invitation to bid. The competency and responsibility of Bidders as well as the number of working days required for completion will be considered in making an award.

19. **Site Visitation and Inspection of Existing Conditions**
All bidders must visit the sites and inspect the existing conditions. Site visits can be arranged by calling the BOE Plant Operations office at 203-452-4306.
TOWN OF TRUMBULL, CONNECTICUT
REQUEST FOR PROPOSAL/ QUOTATION (RFP)
BOARD OF EDUCATION
INSTALLATION OF SECURITY/ SAFETY WINDOW FILM

BID NUMBER 6159     DUE: JANUARY 12, 2016   2:00PM

REQUIREMENTS AND SPECIFICATIONS
Bid Specifications

BID SPECIFICATIONS

GENERAL REQUIREMENTS

There are 11 building locations where film is to be installed. The film, in general, is to be installed at the front entrances of each building and at the main office locations. Diagrams of each building have been attached to the bid with specific locations.

Film will be installed on all glass in the doors and transoms in these locations up to the height of the doors (glass above door height is not included). It is up to each bidder to visit the locations and measure the window sizes.

Vendors can visit these sites independently once setting up a general appointment by calling the BOE Plant Operations office, 203-452-4306. When visiting each school location, vendors MUST check in at the main office of each school to announce their presence.

In addition to the detailed specifications below, all vendors must comply with the following:

- Installer must be certified to install the manufacturers’ product that meets the specifications within the scope of work.
- Must have been in business a minimum of 5 years
- Lead installer must have a minimum of 5 years of experience
- Bidder must have at least 5 references for film installation work using 3M products, three (3) of which must be from jobs in CT, and at least one of which must be a school reference
- Vendor and manufacturer must warrant the film against crazing, peeling, and cracking for a period of 10 years after installation.
- All work must be performed in a professional manner.
- Workers will be required to check in at each building and must wear an ID at all times.
- Workers shall not fraternize with the students.
- The film will be fitted and bonded securely to the surface by factory trained professional window film installers. Upon completion, the film will be an integral part of the window.
- The bidder is responsible for cleaning and preparing the window surface prior to installation.
- Work site will be left clean and all scrap and rubbish from installation removed at the end of each day or installation.
3M Ultra S600 or Equal Safety and Security Window Film
Material and Installation Specifications

PART 1  GENERAL

1.1  SECTION INCLUDES

   A.  Safety and security films.

1.2  RELATED SECTIONS

   A.  Section 08500 - Windows; windows to receive architectural window film.

   B.  Section 08600 - Skylights; glass skylights to receive architectural window film.

   C.  Section 08800 - Glazing; general glazing applications to receive architectural window film.

   D.  Section 08900 - Glazed Curtain Walls; curtain walls to receive architectural window film.

1.3  REFERENCES

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

   B.  STM International (ASTM):


       2.  ASTM D 1004 - Standard Test Method for Tear Resistance (Graves Tear) of Plastic Film and Sheeting.

       3.  ASTM D 1044 - Standard Method of Test for Resistance of Transparent Plastics to Surface Abrasion (Taber Abrader Test).


       5.  ASTM D 4830 - Standard Test Methods for Characterizing Thermoplastic Fabrics Used in Roofing and Waterproofing.


       7.  ASTM E 308 - Standard Recommended Practice for Spectrophotometry and Description of Color in CIE 1931 System.

C. Window 5.2 - A Computer Tool for Analyzing Window Thermal Performance; Lawrence Berkeley Laboratory.


F. GSA Standard Test for Glazing and Glazing Systems Subject to Air blast Loadings.


1.4 PERFORMANCE REQUIREMENTS

A. Fire Performance: Surface burning characteristics when tested in accordance ASTM E 84:
   1. Flame Spread: 25, maximum.
   2. Smoke Developed: 450, maximum.

B. Abrasion Resistance: Film must have a surface coating that is resistant to abrasion such that, less than 5 percent increase of transmitted light haze will result in accordance with ASTM D 1044 using 50 cycles, 500 grams weight, and the CS10F Calbrase Wheel.

1.5 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 methods.

C. Selection Samples: For each film specified, submit film samples representing manufacturer's film type for the project.

D. Verification Samples: For each film specified, two samples representing film color and pattern.

E. 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.
1.6 QUALITY ASSURANCE
A. Manufacturer Qualifications: All primary products specified in this section will be supplied by a single manufacturer with a minimum of five years’ experience.

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.
      e. Amount of film 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.

1.7 DELIVERY, STORAGE, AND HANDLING
A. Store products in manufacturer’s unopened packaging until ready for installation.

B. Store and dispose of hazardous materials, and materials contaminated by hazardous materials, in accordance with requirements of local authorities having jurisdiction.

1.8 PROJECT 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 absolute limits.

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

PART 2 PRODUCTS
2.1 MANUFACTURERS
A. Acceptable Manufacturer: 3M Window Film or equal
2.2 CLEAR MICROLAYERED SAFETY AND SECURITY WINDOW FILM

A. Clear Micro-layered Safety and Security Window Film: 3M Ultra S600 Safety and Security Window Film. Optically clear micro-layered polyester film, with a durable acrylic abrasion resistant coating over one surface and a pressure sensitive adhesive on the other. The film is clear and will not contain dyed polyester. Film contains at least forty-two micro-layers.

1. Physical / Mechanical Performance Properties:
   a. Film Color: Clear.
   b. Thickness: Nominal 6.0 mils (0.15 mm), comprised of 42 micro-layers.
   c. Tensile Strength (ASTM D 882): 30,000 psi.
   e. Tear Resistance (ASTM D 1004): Greater than 1,150 lbs.
   g. Young's Modulus (ASTM D 882): 500 kpsi nominal.

2. Uniformity: No noticeable pin holes, streaks, thin spots, scratches, banding or other optical defects.

3. 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 (6.4 mm) thick clear glass.
   b. Visible Reflection (ASTM E 903): Not more than 10 percent.
   c. Ultraviolet Transmission (ASTM E 903): Less than 1 percent.
   d. Solar Heat Gain Coefficient (ASTM E 903): 0.78.


7. Windstorm Protection: Film shall pass impact of Medium Large Missile "C" and withstand subsequent pressure cycling (per ASTM E 1996 and E 1886) at 50 psf Design Pressure with use of 3M Impact Protection Adhesive or 3M Impact Protection Profile attachment system.

8. Bomb Blast Mitigation: Independent testing with results from high explosive arena blast testing.
   a. GSA Rating with minimum blast pressure and impulse of 14 psi and 60 psi.msec, respectively: “2” (No Hazard / Very High Protection).
   b. GSA Rating with minimum blast pressure and impulse of 10 psi and 89 psi.msec, respectively: “3B” (Low Hazard / High Protection).

PART 3 EXECUTIONS

3.1 EXAMINATION

A. If preparation of glass surfaces is the responsibility of another installer, notify Owner in writing of deviations from manufacturer's recommended installation tolerances and conditions.

1. 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:

B. 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.

C. Commencement of installation constitutes acceptance of conditions.
3.2 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.

3.3 INSTALLATION
A. Install in accordance with manufacturer's instructions.
B. 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.
C. 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.
D. Apply film to glass and lightly spray film with slip solution.
E. Squeegee from top to bottom of window. Spray slip solution to film and squeegee a second time.
F. Bump film edge with lint-free towel wrapped around edge of a 5-way tool.
G. 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.

3.4 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.

END OF SECTION
SCHOOL ADDRESSES ARE AS FOLLOWS:

1. Booth Hill School, 545 Booth Hill Rd., Trumbull, CT
2. Daniels Farm School, 710 Daniels Farm Rd., Trumbull, CT
3. Jane Ryan School, 190 Park Lane, Trumbull, CT
4. Frenchtown School, 30 Frenchtown Rd., Trumbull, CT
5. Middlebrook School, 220 Middlebrooks Avenue, Trumbull, CT
6. Trumbull Early Childhood Education Center, 240 Middlebrooks Avenue, Trumbull, CT
7. Tashua School, 401 Stonehouse Rd., Trumbull, CT
8. Hillcrest Middle School, 530 Daniels Farm Rd., Trumbull, CT
9. Madison Middle School, 4630 Madison Avenue, Trumbull, Ct
10. Trumbull High School, 72 Strobel Rd., Trumbull, Ct
11. Trumbull Regional Agriscience Center, 536 Daniels Farm Rd., Trumbull, Ct
THE UNDERSIGNED AFFIRMS AND DECLARES that this proposal is executed with full knowledge and acceptance of the specifications, requirements, terms and conditions contained herein and with complete understanding and full compliance of system requirements and hereby submits this proposal for the request noted above and certifies that this proposal meets all the specifications and conditions requested herein. Any substitutions to the specifications requested are clearly and completely noted. Any alternate proposals are presented in a similar format to those requested and are attached herein. It is understood that the Town reserves the right to reject any or all proposals or waive any formalities in this request.

This proposal is submitted in full compliance with all Specifications and General Terms and Conditions except as noted below under exceptions.

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>PRICE FOR ALL LABOR AND MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Booth Hill School</td>
<td>$</td>
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<td>$</td>
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<tr>
<td>TOTAL ALL LOCATIONS:</td>
<td>$</td>
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</table>
PROPOSAL (Continued)

Pricing is Firm Fixed Pricing (FFP) and shall remain in effect for 90 days.

TERMS OF PAYMENT ________________________________

Work, as proposed above shall commence work on ______ calendar days after receipt of
"Notice to

Proceed" or receipt of Purchase Order and shall be completed within ______ calendar days
thereafter

This quotation is to remain firm for _____________ DAYS

TOTAL PROPOSED: Includes all labor, materials, and equipment as specified herein.

Company Name by (Signature)

Address Print Name

(Continue) address Title

Date Telephone/Fax

Email Website
REFERENCES

(To be submitted with proposal – attach additional pages as necessary)

List references for similar services provided for at least Three (3) clients in the past five (5) years (attach any other client references if desired). PLEASE NOTE IT IS THE TOWN’S INTENT TO COMMUNICATE WITH THE REFERENCES LISTED HEREIN.

CLIENT 1:
Organization Name: ________________________________________________
Contact Name: __________________________________________ Phone: ___________________________
Service Dates: _____________________________________________________
Project(s): ___________________________________________________________________________________

CLIENT 2:
Organization Name: ________________________________________________
Contact Name: __________________________________________ Phone: ___________________________
Service Dates: _____________________________________________________
Project(s): ___________________________________________________________________________________

CLIENT 3:
Organization Name: ________________________________________________
Contact Name: __________________________________________ Phone: ___________________________
Service Dates: _____________________________________________________
Project(s): ___________________________________________________________________________________