



Halifax

Regional Centre for Education

**RFP# 4246 - Addendum #1
Masonry and Windows Replacement
AJ Smeltzer Junior High School**

To: All Bidders

Date: June 18, 2024

From: Nancy Rideout, Purchasing Manager
Office: (902) 464-2000 ext. 2222
Email: nrideout@hrce.ca

The bid documents shall be amended, and new drawings and clauses added, and shall become part of the contract documents as follows:

**The Deadline to submit Questions has closed.
The RFP is scheduled to close on June 21st, 2024 – 2pm (ATL)**

- 1. Add Specification Section 12 21 17 – Roller Shades.**
- 2. Reference Drawing: A-101, Floor Plans – Existing – Level 1:**
 - .1 Rename “PHASE 5 (NIC)” note along Grid L to read: “PHASE 8 (NIC)”.
 - .2 General Notes: add note 13, as follows:
 - .1 Where new masonry work terminates at an outside corner, meeting an NIC phase, the new masonry shall ‘turn the corner’ by at least two brick widths. Install control joint between new and existing brick veneer.
 - .3 Add the following note to the wall area along Grid O’ (Phase 5):
 - .1 Existing Wall-Mounted Electrical: Temporarily remove electrical to facilitate masonry work. Reinstate electrical after masonry installation is complete.
- 3. Reference Drawing: A-102, Floor Plans – Existing – Level 2:**
 - .1 General Notes: add note 13, as follows:
 - .1 Where new masonry work terminates at an outside corner, meeting an NIC phase, the new masonry shall ‘turn the corner’ by at least two brick widths. Install control joint between new and existing brick veneer.
 - .2 General Notes: add note 14, as follows:
 - .1 Remove and replace interior blinds at Library windows. Hand over existing blinds to HRCE.

4. Reference Drawing: A-502, Section Details:

- .1 Detail 5, Louver Head: This detail currently indicates a non-flanged louver frame set back/recessed from the brick veneer. Revise detail to indicate a louver frame with flanges, mounted to the exterior face of brick (same as the louvers installed during the previous phase of work (Phase 3)).

Clarifications

- 1. The existing storage shed located at Grids W and 4' is not part of the work of this contract.
- 2. Construction safety fencing is to be installed at each phase of work. The fencing shall extend the full length of each phase. Install overhead protection at each entrance/exit door. Perform work related to fencing, overhead protection, and trash bin storage, in accordance with HRCE's 'Front-End' document and Section 02 41 19.

Attachments

Specification Section **12 21 17** – Roller Shades.

End of Addendum #1

PLEASE SIGN BELOW AND RETURN WITH BID DOCUMENTS:

Signature

Company Name

Part 1 General

1.1 REFERENCES

- .1 American Architectural Manufacturer's Association (AAMA)
 - .1 AAMA 611-12, Voluntary Specification for Architectural Anodized Aluminum.
- .2 ASTM International (ASTM)
 - .1 ASTM D1784-11, Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds.
 - .2 ASTM G21-09, Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
- .3 National Fire Protection Agency (NFPA)
 - .1 NFPA 70, National Electrical Code 2011 Edition.
 - .2 NFPA 701 (2010 Edition), Fire Tests for Flame-Resistant Textiles and Films.
- .4 Underwriters Laboratories Canada (ULC):
 - .1 CAN/ULC S109-03 Flame Tests of Flame Resistant Fabrics and Films

1.2 DESIGN CRITERIA

- .1 Meet DTIR – DC350 requirements:
 - .1 Provide crank operated roller blinds.
 - .2 Roller blinds are required at interior of all exterior windows.
 - .3 Low VOC emittance from fabric less than 5ppm.
 - .4 The following roller blinds manufacturers and products may be used.
 - .1 Silent Gliss.
 - .2 Sun Project Canada Inc. Shadecloth 3000 series.
 - .5 Wall mounted roller blinds are to be supported by wall structure. Drywall support is not acceptable.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit product data in accordance with Section 01 33 00 – Submittal Procedures.
 - .1 Submit information for each type of product indicated including, but not limited to, the following:
 - .1 Styles, material descriptions, construction details, dimensions of individual components and profiles, features, and finishes.
 - .2 Operating instructions.
- .2 Submit shop drawings in accordance with Section 01 33 00 – Submittal Procedures.
 - .1 Indicate dimensions in relation to window jambs, operator details, head and sill anchorage details, hardware and accessories details.
 - .2 Wiring diagrams indicating power, system, and control wiring.
- .3 Submit samples in accordance with Section 01 33 00 – Submittal Procedures.
 - .1 Submit one representative working sample of each type of shading device.
 - .2 After approval, samples will be returned for incorporation into the Work.

- .4 Submit closeout data to Section 01 70 00 - Contract Closeout as follows:
 - .1 Methods for maintaining roller shades and finishes.
 - .2 Precautions about cleaning materials and methods that could be detrimental to fabrics, finishes, and performance.
 - .3 Operating hardware.

1.4 QUALITY ASSURANCE

- .1 Manufacturer Qualifications: Obtain roller shades through one source from a single manufacturer with a minimum of twenty years' experience in manufacturing products comparable to those specified in this section.
- .2 Installer Qualifications: Installer trained and certified by the manufacturer with a minimum of ten years' experience in installing products comparable to those specified in this section.
- .3 Regulatory Requirements:
 - .1 Flame Spread Rating: Provide panel materials with flame spread and smoke developed characteristics required by Authorities Having Jurisdiction as determined by testing identical products in accordance with CAN/ULC S109.
 - .2 Anti-Microbial Characteristics: 'No Growth' per ASTM G21 results for fungi ATCC9642, ATCC 9644, ATCC9645.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Deliver material to site in manufacturer standard packaging. Store and handle as recommended by manufacturer.

1.6 WARRANTY

- .1 Manufacturer Warranty: Provide manufacturer's warranty from commencing from date of Substantial Performance covering the following minimum requirements for materials:
 - .1 Shade Hardware: ten (10) years.
 - .2 Shade Fabric/Shade Cloth: ten (10) years.
 - .3 Metal Coatings: ten (10) years.

Part 2 Products

2.1 MANUFACTURERS

- .1 Acceptable Materials:
 - .1 Silent Gliss.
 - .2 Sun Project Canada Inc. Shadecloth 3000 series.

2.2 ROLLER SHADE COMPONENTS

- .1 Roller Tube: One piece extruded 6061-T6 or 6063-T6 aluminum roller tube(s) meeting the requirements of ASTM B429, having clear anodized finish as follows:
 - .1 Protective Finish: AA-M12 Mechanical Finish; C22 Non-Specular; A21 Chemical Finish, etched, medium matte anodic coating; clear coating 0.025 mm or thicker to AMA 611; roller tube assemblies having mill finish will not be acceptable.

- .2 Tube Diameter and Thickness: Manufacturers recommended engineered diameter, wall thickness, and aluminum grade as required for maximum allowable deflection of L/700.
- .3 Tube Configuration: Extrude tube with provision made for mechanical engagement with the operator and drive assembly; and having channels to accept fabric attachment spline.
- .2 Fabric Spline: Extruded vinyl profile, welded to fabric band or panel, allowing removal and re-installation of fabric bands or panels without removing the roller tube and hardware and having the following characteristics:
 - .1 Fabric bands or panels must be replaceable on site.
 - .2 Attachment of the fabric to the tube with double-sided adhesive tapes, adhesives, staples or rivets will not be acceptable.
- .3 Hem Bars and Hem Bar Pockets:
 - .1 Custom shaped oval, ergonomic aluminum profile; nominal 35 mm wide x 10 mm thick and having 1.8 mm wall thickness having matching end caps, pre-weighted to maintain bottom of shade fabric straight and flat; colour as selected by Consultant; with manufacturer's standard light seal applied to underside of hem bar; attached to fabric panel using welded fabric spline.
- .4 Fasteners: Non-corrosive fasteners as recommended by manufacturer.
- .5 Valance: As indicated by manufacturer's designation for style and colour.
- .6 Mounting: Inside mounting (confirm mounting with Consultant prior to ordering or fabrication), permitting easy removal and replacement without damaging roller shade or adjacent surfaces and finishes.
- .7 Hold-Down Brackets and Hooks or Pins and Side Channels: Manufacturer's standard for fixing shade in place, keeping shade panel material taut, and reducing light gaps when shades are closed.

2.3 SHADE MATERIALS

- .1 Roller fabric shall have the following characteristics:
 - .1 Low VOC emittance, less than 5 ppm;
 - .2 PVC coated fibreglass;
 - .3 Minimum weight 11.5 oz/yd;
 - .4 Minimum thickness 24 mil;
 - .5 Optimal Side "A" and Side "B" colouring (exterior facing to be lighter shade as selected by Consultant);
 - .6 Flame retardant to NFPA-701;
 - .7 Fabric shall have 5% openness.
 - .8 Mermet T-Screen or Phifer, interior colour to match Sun Control SC 3608 as closely as possible.
- .2 Direction of Roll: Regular, from back of roller, and reverse, from front of roller, for double roller shades (confirm Direction with Consultant prior to ordering or fabrication).
- .3 Mounting Brackets: Fascia end caps, fabricated from steel finished to match fascia.
- .4 Fascia: L-shaped, formed-steel sheet or extruded aluminum; long edges returned or rolled; continuous panel concealing front and bottom of shade roller, brackets, and operating hardware and operators; length required; removable design for access.

- .5 Bottom Bar: Steel or extruded aluminum, with plastic or metal capped ends. Provide concealed, by pocket of shade material, internal-type bottom bar with concealed weight bar as required for smooth, properly balanced shade operation.
- .6 Shade Operation: Manual; with continuous loop bead chain, clutch, and cord tensioner and bracket lift operator.
 - .1 Position of Clutch Operator: Right side of roller, as determined by hand of user facing shade from inside, unless otherwise indicated on Drawings.
 - .2 Clutch: Capacity to lift size and weight of shade; sized to fit roller or provide adaptor.
 - .3 Lift Assist Mechanism: Manufacturer's standard spring assist for balancing roller shade weight and lifting heavy roller shades.
 - .4 Loop Length: Length required to make operation convenient from floor level.
 - .5 Bead Chain: Stainless steel.
 - .6 Cord Tensioner Mounting: Sill, or as otherwise directed by Consultant.
 - .7 Operating Function: Stop and hold shade at any position in ascending or descending travel.

2.4 OPERATORS

- .1 Manual Chain Operator:
 - .1 Mounting Brackets: Angle shaped brackets size and thickness to manufacturer's standard; unitized pre-moulded assembly; allowing for continuous front or back roll fascia across multiple shades without exposed fasteners.
 - .2 Chain Drive System: Continuous loop of #10 stainless steel bead chain having a rated strength of 40 kg to prevent chain breakage under normal operating conditions; and as limited by ANSI/WCMA A100.1 safety requirements, and as follows:
 - .1 Gear reduction chain operator with inertia braking mechanism capable of locking shade panel at any point of travel. Set travel length of chain operator assembly on-site without disassembly of hardware to suit travel length of shade panel.
 - .2 Chain drive operator shall positively engage drive mechanism through internal profile configuration; friction fitted engagement of the roller tube to drive mechanism will not be acceptable.
 - .3 Chain operator shall prohibit operation by pulling on hem bar.
 - .4 Shade roller tube shall be removable from brackets without hardware removal; non-metal components shall be self-lubricating.

2.5 ROLLER SHADE FABRICATION

- .1 Product Description: Roller shade consisting of a roller, a means of supporting the roller, a flexible sheet or band of material carried by the roller, a means of attaching the material to the roller, a bottom bar, and an operating mechanism that lifts and lowers the shade.
- .2 Concealed Components: Non-corrodible or corrosion-resistant-coated materials.
 - .1 Lifting Mechanism: With permanently lubricated moving parts.

- .3 Unit Sizes: Obtain units fabricated in sizes to fill window and other openings as follows, measured at 23° C:
 - .1 Shade Units Installed between Inside Jambs: Edge of shade not more than 6 mm from face of jamb. Length equal to head to sill dimension of opening in which each shade is installed.
- .4 Installation Brackets: Designed for easy removal and reinstallation of shade, for supporting fascia, roller, and operating hardware and for hardware position and shade mounting method indicated.
- .5 Installation Fasteners: Not fewer than two fasteners per bracket, fabricated from metal noncorrosive to shade hardware and adjoining construction; type designed for securing to supporting substrate; and supporting shades and accessories under conditions of normal use.
- .6 Colour-Coated Finish: For metal components exposed to view, apply manufacturer's standard baked finish complying with manufacturer's written instructions for surface preparation including pre-treatment, application, baking, and minimum dry film thickness.
- .7 Colours of Metal and Plastic Components Exposed to View: as selected by Consultant from manufacturer's standard line.
- .8 Hembars and Hembar Pockets:
 - .1 Ergonomic designed exposed extruded aluminum alloy 6063-T5, custom oval shaped profile 35 mm x 10 mm x 1.78 mm thick, with matching end caps, pre-weighted, to maintain bottom of shade fabric straight and flat. Colour prefinished to match adjacent window framing or as selected by Consultant. Underside of hem bar available with schlegel light seal. Attached to fabric panel by welded fabric spline.
- .9 Fasteners:
 - .1 Non-corrosive as recommended by manufacturer.

2.6 ACCESSORIES

- .1 Aluminum Fascia:
 - .1 Back / Regular Roll Shade Fascia:
 - .1 Extruded aluminum alloy 6063-T5, prefinished, 105 mm x 45 mm x 1.6 mm wall thickness, custom designed profile to fit onto premoulded end mounting brackets without exposed fasteners. Colour prefinished to match adjacent window framing or as selected by Consultant.
 - .2 Fascia shall allow for continuous placement across multiple shades (to a maximum length of 6100 mm without exposed fasteners).
 - .3 Fascia shall conceal the mounting hardware, power and control cables, drive mechanism, roller tube, and all fabric rolled on the tube.
 - .4 Fascia shall not fit snug against side channels to prevent thermal shock to the glazing system.
- .2 Closures:
 - .1 Room darkening side and bottom channel:
 - .1 Continuous extruded aluminum alloy, 6063-T5, U-shaped 51 mm x 22 mm x 1.5 mm thick with interior channels for 6 mm wide continuous schlegel light seals. Colour shall be prefinished to match the adjacent window framing or as selected by the Consultant.

- .2 Custom manufactured for easy snap-on installation, allowing channel to snap into place without exposed fasteners; and to be removable without damage to the substrate.

2.7 FINISHES

- .1 Aluminum: clear anodized finish.
- .2 Unexposed aluminum: mill finish.

Part 3 Execution

3.1 EXAMINATION

- .1 Do not begin installation until substrates have been properly prepared.
- .2 If substrate preparation is the responsibility of another installer, notify Owner's Representative of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- .1 Clean surfaces thoroughly prior to installation.
- .2 Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- .1 Install shades level, plumb, square, and true, according to manufacturer's written instructions, and located so shade band is no closer than 50 mm to interior face of glass. Allow proper clearances for window operation hardware.
- .2 Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.
- .3 Clean roller shade surfaces after installation, according to manufacturer's written instructions.
- .4 Engage Installer to train Owner's maintenance personnel to adjust, operate, and maintain roller shade systems.

3.4 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning. Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning. Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .3 Manage and dispose of demolition and construction waste materials in accordance with Section 01 74 21 - Construction Waste Management.

3.5 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by Work of this Section.

3.6 SCHEDULE

.1 Library windows.

END OF SECTION