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Request for Information

Tender RFI Response 01

Project Name: Garage Construction in Resolute Bay, Nunavut
Project number: Parks Canada 5P468-22-0210/A
GA 21109
Date: February 22, 2023
Attn: Thuc Nguyen
Asset Manager, Parks Canada

1.0 Request:

1. In reference to specification section 00 01 15 page 1 of 2, the list shows page A504 which we do not have in the plans.
2. In reference to the specification section 00 01 15 page 1 of 2, the list does not show page A406, is it part of the documents?
3. In reference to specification section 00 01 15 page 1 of 2, the list shows section 09 92 23 (PAINT), is the correct section referenced 09 91 23?
4. With reference to amendment no.002, can the "spray foam insulation" indicated in the composition of the exterior walls and the roof be replaced by mineral fiber wool with the same RSI value?
5. In reference to page A105, a note on the drawing indicates 12.7mm DRYWALL FINISH for the ceiling while amendment no.002 indicates "interior metal liner panel", which version is the correct one?
6. Referring to page A601, which product should be used for the "sealed concrete"?
7. Specification section 07 46 16 (ALUMINUM SIDING) does not correspond to component W1 & R1 on page A102 which indicates steel siding.

1.0 Response:

1. Please see attached revised specification section 00 01 15 – List of Drawing Sheets.
2. Please see attached revised specification section 00 01 15 – List of Drawing Sheets.
3. Yes. Please see attached revised specification section 00 01 10 – Table of Contents.
4. No. Closed cell spray foam is required.
5. Addendum 02 is correct. Metal liner panel to be used on the underside of the high ceiling.
6. Please see attached specification section 03 35 00 – Concrete Finishing.
7. Please see attached specification section 07 46 19 – Steel Siding.

End of Tender RFI Response 01

Signed,



Lucas Meyer
Project Manager, Guy Architects Ltd.

ARCHITECTURAL SPECIFICATION

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26 05 13	Wires and Cables 0 – 1000V	3
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26 05 33	Conduits and Conduit Fittings	4
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26 05 80	Connection of Equipment	1
26 09 24	Low Voltage Switching	1
26 24 17	Panelboards Breaker Type	2
26 27 16	Pull Boxes and Cabinets	2
26 27 19	Multi-Outlet Assemblies	2
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26 51 00	Lighting Equipment	2
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END OF SECTION

- 1 **ARCHITECTURAL DRAWINGS**
 - A000 Cover & Code Matrix
 - A101 Site Plan
 - A102 Ground Floor Plan
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 - A104 Ground Floor Partial Plan
 - A105 Reflected Ceiling Plans
 - A200 Building Elevations
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- 2 **CIVIL DRAWINGS**
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 - C101 Existing Grading Plan
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- 3 **STRUCTURAL DRAWINGS**
 - S100 Notes
 - S101 Pile Layout
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- M100 Site Plan**
- M101 Plumbing DWV**
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5 ELECTRICAL DRAWINGS

- E001 Electrical Site Plan**
- E100 Electrical Specifications and Instructions**
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- E300 Floor Plan Lighting Layout**
- E301 Floor Plan Electrical Layout**
- E302 Mezzanine Floor Plan Electrical Layout**
- E400 Electrical Panel Schedules**
- E500 Mechanical Load Schedule**
- E600 Luminaire Schedule**

END OF SECTION

1 GENERAL

1.01 RELATED REQUIREMENTS

- .1 Section None.

1.02 REFERENCE STANDARDS

- .1 American Society of Mechanical Engineers (ASME)
 - .1 ASME B18.6.3-[2011], Machine Screws, Tapping Screws, and Metallic Drive Screws (Inch Series).
- .2 ASTM International
 - .1 ASTM D 2369-[10e1], Test Method for Volatile Content of Coatings.
 - .2 ASTM D 2832-[92(2011)], Standard Guide for Determining Volatile and Nonvolatile Content of Paint and Related Coatings.
 - .3 ASTM D 5116-[10], Standard Guide For Small-Scale Environmental Chamber Determinations of Organic Emissions From Indoor Materials/Products.
- .3 Canada Green Building Council (CaGBC)
 - .1 LEED Canada-NC Version 1.0-[2004], LEED (Leadership in Energy and Environmental Design): Green Building Rating System Reference Package For New Construction and Major Renovations (including Addendum [2007]).
 - .2 LEED Canada-CI Version 1.0-[2007], LEED (Leadership in Energy and Environmental Design): Green Building Rating System Reference Guide For Commercial Interiors.
 - .3 LEED Canada 2009 for Design and Construction- [2010], LEED Canada 2009 for Design and Construction Leadership in Energy and Environmental Design Green Building Rating System Reference Guide.
 - .4 LEED Canada for Existing Buildings, Operations and Maintenance- [2009], LEED Canada 2009 Leadership In Energy and Environmental Design Green Building Rating System Reference Guide.
- .4 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-51.32-[M77], Sheathing, Membrane, Breather Type.
 - .2 CAN/CGSB-93.2-[M91], Prefinished Aluminum Siding, Soffits and Fascia, for Residential Use.
 - .3 CAN/CGSB-93.3-[M91], Prefinished Galvanized and Aluminum-Zinc Alloy Steel Sheet for Residential Use.
 - .4 CAN/CGSB-93.4-[92], Galvanized and Aluminum-Zinc Alloy Coated Steel Siding Soffits and Fascia, Prefinished, Residential.
 - .5 CAN/CGSB-93.5-[92], Installation of Metal Residential Siding, Soffits and Fascia.
- .5 CSA International
 - .1 CSA B111-[1974(R2003)], Wire Nails, Spikes and Staples.
- .6 Environmental Choice Program (ECP)
 - .1 CCD-045-[95], Sealants and Caulking Compounds.
- .7 Green Seal Environmental Standards (GS)
 - .1 GS-36-[11], Standard for Commercial Adhesives.

- .8 South Coast Air Quality Management District (SCAQMD), California State, Regulation XI. Source Specific Standards
 - .1 SCAQMD Rule 1168-[A2005], Adhesives and Sealants Applications.
- .9 Underwriters' Laboratories of Canada (ULC)
 - .1 CAN/ULC-S706-[09], Standard for Wood Fiber Insulating Boards for Buildings.

1.03 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for metal siding and include product characteristics, performance criteria, physical size, finish, and limitations.
 - .2 Submit 2 copies of WHMIS MSDS in accordance with Section 01 35 43 - Environmental Procedures.
 - .1 Indicate VOCs for caulking materials during application and curing.
- .3 Shop Drawings:
 - .1 Submit drawings stamped and signed by professional engineer registered or licensed in Nunavut, Canada.
 - .2 Indicate dimensions, profiles, attachment methods, schedule of wall elevations, trim and closure pieces, soffits, fascia, metal furring, and related work.
- .4 Samples:
 - .1 Submit duplicate 600mm x 600mm samples of siding material, of colour and profile specified.

1.04 QUALITY ASSURANCE

- .1 Test Reports: submit certified test reports showing compliance with specified performance characteristics and physical properties.
- .2 Certificates: submit product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

1.05 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store, and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store materials off ground, and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect metal siding from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.

2 PRODUCTS

2.01 METAL CLADDING COMPONENTS

- .1 Strip siding: to CAN/CGSB-93.2, Type [A] [B] [C], Class [1] [2] [horizontal] [vertical].
 - .1 Colour: Consultant to select from Manufacturer's range.
 - .2 Gloss: medium].
 - .3 Profile: Based on Manufacturer's range deep, preformed interlocking joints, fastener holes pre-punched.
 - .4 Pattern: plain
 - .5 Thickness: 24GA min. base metal thickness.
 - .6 Backing: [RSI 8.8 polyurethane
- .2 Soffit: to None

2.02 FASTENERS

- .1 Nails: CSA B111. Screws: ASME B18.6.3. Purpose made as recommended by Manufacturer.

2.03 CAULKING

- .1 Sealants: in accordance with Section 07 92 00- Joint Sealants.
 - .1 Test for acceptable VOC emissions in accordance with ASTM D 2369 and ASTM D 2832.
 - .2 Adhesives and sealants: VOC limit 250 g/L maximum to SCAQMD Rule 1168.

2.04 SHEATHING PAPER

- .1 Exterior wall sheathing paper: to CAN/CGSB-51.32, spunbound olefin.

2.05 ACCESSORIES

- .1 Exposed trim: inside corners, outside corners, cap strip, drip cap, under sill trim, starter strip and window/door trim of same material, colour and gloss as cladding, with fastener holes pre-punched.

3 EXECUTIONS

3.01 EXAMINATION

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate in presence of consultant.
 - .2 Inform Consultant of unacceptable conditions immediately upon discovery.
 - .3 Proceed with installation only after unacceptable conditions have been remedied [and after receipt of written approval to proceed from consultant.

3.02 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

3.03 INSTALLATION

- .1 Install cladding in accordance with CGSB 93.5, and manufacturer's written instructions.
- .2 Install one-layer exterior wall sheathing paper horizontally by lapping edges 150 mm with higher layer overlapping lower layer.
- .3 Install continuous starter strips, inside and outside, corners, edgings, cap, sill, and window/door opening flashings as indicated.
- .4 Install outside corners, fillers, and closure strips with carefully formed and profiled work.
- .5 Maintain joints in exterior cladding, true to line, tight fitting, hairline joints.
- .6 Attach components in manner not restricting thermal movement.
- .7 Caulk junctions with adjoining work with sealant. Do work in accordance with Section 07 92 00 - Joint Sealants.

3.04 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 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.

3.05 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by preformed metal siding installation.

END OF SECTION

1 GENERAL

1.01 RELATED REQUIREMENTS

- .1 Section 03 30 00.01 – Cast In Place Short Form.

1.02 REFERENCE STANDARDS

- .1 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-25.20-95, Surface Sealer for Floors.
- .2 CSA International
 - .1 CAN/CSA-A23.1:19/A23.2:19, Concrete Materials and Methods of Concrete Construction/Test Methods and Standard Practices for Concrete.

1.03 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Provide manufacturer's printed product literature and data sheets for concrete finishes and include product characteristics, performance criteria, physical size, finish and limitations.
 - .1 Provide two copies of WHMIS MSDS in accordance with Section 01 35 43 - Environmental Procedures. WHMIS MSDS acceptable to Labour Canada and Health and Welfare Canada for concrete floor treatment materials. Indicate VOC content in g/L.
 - .2 Include application instructions for concrete floor treatment.

1.04 ENVIRONMENTAL REQUIREMENTS

- .1 Temporary lighting:
 - .1 Minimum 1200 W light source, placed 2.5 m above floor surface, for each 40 sq m of floor being treated.
- .2 Electrical power:
 - .1 Provide sufficient electrical power to operate equipment normally used during construction.
- .3 Work area:
 - .1 Make work area water tight protected against rain and detrimental weather conditions.
- .4 Temperature:
 - .1 Maintain ambient temperature of not less than 10 degrees C from 7 days before installation to at least 48 hours after completion of work and maintain relative humidity not higher than 40% during same period.
- .5 Moisture:
 - .1 Ensure concrete substrate is within moisture limits prescribed by manufacturer.
- .6 Safety:
 - .1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of hazardous materials.

- .7 Ventilation:
 - .1 Ventilate area of work as directed by Departmental Representative by use of approved portable supply and exhaust fans.
 - .2 Ventilate enclosed spaces in accordance with Section 01 51 00 - Temporary Utilities.
 - .3 Provide continuous ventilation during and after coating application.

1.05 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store, and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements:
 - .1 Deliver materials to site in original factory packaging, labelled with manufacturer's name, address.
- .3 Packaging Waste Management: remove for reuse and return of pallets, crates, padding, and packaging materials as applicable.

2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- .1 Product quality and quality of work in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Submit written declaration that components used are compatible and will not adversely affect finished flooring products and their installation adhesives.

2.02 SEALING COMPOUNDS

- .1 Surface sealer: to CAN/CGSB-25.20, Type 2 - water based, clear.
- .2 Sealants: maximum VOC limit 250 g/L.
- .3 Surface sealers are not manufactured or formulated with aromatic solvents, formaldehyde, halogenated solvents, mercury, lead, cadmium, or hexavalent chromium and their compounds.

2.03 MIXES

- .1 Mixing ratios in accordance with manufacturer's written instructions.

3 EXECUTION

3.01 EXAMINATION

- .1 Verify that slab surfaces are ready to receive work and elevations are as indicated on shop drawings.

3.02 APPLICATION

- .1 Apply concrete finish in accordance with manufacturer's written instructions.

- .2 After floor treatment is dry, seal control joints and joints at junction with vertical surfaces with sealant.
- .3 Apply floor treatment in accordance with Sealer manufacturer's written instructions.
- .4 Clean over spray. Clean sealant from adjacent surfaces.

3.03 CLEANING

- .1 Progress Cleaning: Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools, and equipment.
- .3 Waste Management: separate waste materials for reuse and recycling as applicable.

3.04 PROTECTION

- .1 Protect finished installation in accordance with manufacturer's instructions.

END OF SECTION