

SPECIFICATION

Painting of the Wood Exterior
of the Administration Building, FRC Storage
Building and Small Shed

Lark Harbour, NL

P/N: F6879-172009

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the Administration Building, FRC
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1.1 SCOPE

- .1 The work consists of the furnishing of all plant, labour, equipment and material for repainting of the wood exterior of the Administration building and FRC storage building in Lark Harbour, NL, in strict accordance with specifications and accompanying drawings and subject to all terms and conditions of the Contract. The total surface area of wood to be repainted (excluding the trims) is approximately 500m².

1.2 DESCRIPTION OF WORK

- .1 In general, work under this contract consists of, but will not necessarily be limited to, the following:
- .1 Re-painting of the blue wood siding and white trims. General requirements will include hand scraping any loose and peeling coating from the wooden substrate. Apply one touch-up coat of Dulux Diamond Exterior Paint primer (or approved equivalent) to the bare exposed wooden areas only. Apply 2 coats of Dulux Diamond Exterior Paint (or approved equivalent) to the entire wooden structure (wood siding and trims). Apply all paint products as per manufacturers' written instructions. Ensure that the exposed siding is completely dry prior to proceeding with paint application. Submit paint color schedule for review and approval by the Departmental Representative prior to proceeding with work (the intent is to match the existing colours).
- Do not proceed with any portion of the work until the Departmental Representative has approved the Contractor's written work plan.

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- 1.3 SITE OF WORK .1 Work will be carried out at Lark Harbour, NL.
- 1.4 DATUM .1 If requested by the Contractor, the Departmental Representative will establish a benchmark prior to the start of work activities.
- 1.5 FAMILIARIZATION WITH SITE .1 Before submitting a bid, it is required that bidders visit the site and its surroundings to review and verify the form, nature and extent of the work, materials needed for the completion of the work, the means of access to the site, severity, exposure and uncertainty of weather, any accommodations they may require, and in general shall obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid or costs to do the work. No allowance shall be made subsequently in this connection on account of error or negligence to properly observe and determine the conditions that will apply.
- .2 Contractors, bidders or those they invite to site are to review specification Section 01 35 29 - Health and Safety Requirements before visiting site. Take all appropriate safety measures for any visit to site, either before or after acceptance of bid.
- .3 Obtain prior permission from the Contracting Authority before carrying out such site inspection.

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| <u>1.6 CODES AND STANDARDS</u> | .1 | Perform work in accordance with the latest edition of the National Building Code of Canada, and any other code of provincial or local application including all amendments up to project bid closing date provided that in any case of conflict or discrepancy, the more stringent requirements shall apply. |
| | .2 | Materials and workmanship must meet or exceed requirements of specified standards, codes and referenced documents. |
| <u>1.7 TERM ENGINEER</u> | .1 | Unless specifically stated otherwise, the term Engineer where used in the Specifications shall mean the Departmental Representative. |
| <u>1.8 SETTING OUT WORK</u> | .1 | Provide devices needed to layout and construct work. |
| | .2 | Supply such devices required to facilitate Departmental Representative's inspection of work. |
| <u>1.9 COST BREAKDOWN</u> | .1 | This will be a lump sum project. |
| <u>1.10 WORK SCHEDULE</u> | .1 | Submit within 7 work days of notification of acceptance of bid, a construction schedule showing commencement and completion of all work within the time stated in the bid acceptance letter. |
| <u>1.11 PROTECTION</u> | .1 | Store all materials and equipment to be incorporated into work to prevent damage by any means. |
| <u>1.12 PERMITS</u> | .1 | Obtain and pay for all permits, certificates and licenses as required by |

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Municipal, Provincial, Federal and other
Authorities.

1.13 WORKS
COORDINATION

- .1 Responsible for coordinating the work of the various trades, where the work of such trades interfaces with each other.

1.14 CONTRACTOR'S
USE OF SITE

- .1 Responsible for arranging the storage of materials on or off site, and any materials stored at the site which interfere with any of the day to day activities at or near the site will be moved promptly at the Contractor's expense, upon request by Departmental Representative.
- .2 Exercise care so as not to obstruct or damage public or private property in the area.
- .3 At completion of work, restore area to its original condition. Damage to ground and property will be repaired by Contractor. Remove all construction materials, residue, excess, etc., and leave site in a condition acceptable to Departmental Representative.

1.15 WORK
COMMENCEMENT

- .1 Mobilization to project site is to commence immediately after acceptance of bid and submission of Site Specific Safety Plan and insurance and bonding documentation, unless otherwise agreed by Departmental Representative.
- .2 Project work on site is to commence as soon as possible, with a continuous reasonable work force, unless otherwise

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agreed by Departmental Representative.

- .3 Weather conditions, short construction season, delivery challenges and the location of the work site may require the use of longer working days and additional work force to complete the project within the specified completion time.
- .4 Make every effort to ensure that sufficient material and equipment is delivered to site at the earliest possible date after acceptance of bid and replenished as required.

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PART 1 - GENERAL

- 1.1 SECTION INCLUDES
- .1 Product data.
 - .2 Samples.
 - .3 Certificates.
- 1.2 SUBMITTAL GENERAL REQUIREMENTS
- .1 Submit to Departmental Representative for review submittals listed, including samples, certificates and other data, as specified in other sections of the Specifications. Note that any and all changes to the contract will have to be approved in writing by the Contracting Authority.
 - .2 Submit with reasonable promptness and in orderly sequence so as to allow for Departmental Representative's review and not cause delay in Work. Failure to submit in ample time will not be considered sufficient reason for an extension of Contract time and no claim for extension by reason of such default will be allowed.
 - .3 Do not proceed with work until relevant submissions are reviewed by Departmental Representative.
 - .4 Present product data, samples and mock-ups in SI Metric units.
 - .5 Where items or information is not produced in SI Metric units, provide soft converted values.
 - .6 Review submittals prior to submission to Departmental Representative. Ensure during

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review that necessary requirements have been determined and verified, required field measurements or data have been taken, and that each submittal has been checked and co-ordinated with requirements of Work and Contract Documents.

.1 Submittals not stamped, signed, dated and identified as to specific project will be returned unexamined by Departmental Representative and considered rejected.

- .7 Notify Departmental Representative, in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.
- .8 Verify field measurements and affected adjacent work and coordinate.
- .9 Contractor's responsibility for errors and omissions in submission is not relieved by Departmental Representative's review of submittals.
- .10 Contractor's responsibility for deviations in submission from requirements of Contract Documents is not relieved by Departmental Representative's review.
- .11 Submittal format: paper originals, or alternatively clear and fully legible photocopies of originals. Facsimiles are not acceptable, except in special circumstances pre-approved by Departmental Representative. Poorly printed non-legible photocopies or facsimiles will not be accepted and be returned for resubmission.
- .12 Make changes or revision to submissions which

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Departmental Representative may require, consistent with Contract Documents and resubmit as directed by Departmental Representative. When resubmitting, notify Departmental Representative in writing of any revisions other than those requested.

.13 Keep one reviewed copy of each submittal document on site for duration of Work.

1.3 PRODUCT DATA

.1 Product data includes drawings, diagrams, illustrations, schedules, performance charts, brochures and other data which are to be provided by Contractor to illustrate details of a portion of Work.

.2 Submit sufficient copies of product data which are required by the General Contractor and sub-contractors plus 2 copies which will be retained by Departmental Representative. Ensure sufficient numbers are submitted to enable one complete set to be included in each of the maintenance manuals specified, if applicable.

.3 Allow 10 calendar days for Departmental Representative's review of each submission.

.4 Adjustments or corrections made on product data by Departmental Representative are not intended to change Contract Price. If adjustments affect value of Work, advise Departmental Representative in writing prior to proceeding with Work.

.5 If upon review by Departmental Representative, no errors or omissions are discovered or if only minor corrections and comments are made, fabrication and

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installation may proceed upon receipt of shop drawings. If product data are rejected and noted to be Resubmitted, do not proceed with that portion of work until resubmission and review of corrected product data, through same submission procedures indicated above.

- .6 Accompany each submission with transmittal letter, containing:
 - .1 Date.
 - .2 Project title and project number.
 - .3 Contractor's name and address.
 - .4 Identification and quantity of each product data and sample.
 - .5 Other pertinent data.
- .7 Submissions shall include:
 - .1 Date and revision dates.
 - .2 Project title and project number.
 - .3 Name and address of:
 - .1 Subcontractor.
 - .2 Supplier.
 - .3 Manufacturer.
 - .4 Contractor's stamp, signed by Contractor's authorized representative certifying approval of submissions, verification of field measurements and compliance with Contract Documents.
 - .5 Cross references to particular details of contract drawings and specifications section number for which product data submission addresses.
 - .6 Details of appropriate portions of Work.
- .8 After Departmental Representative's review, distribute copies.
- .9 The review of samples and product data by the Departmental Representative or their delegated representative is for sole purpose

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of ascertaining conformance with general concept. This review shall not mean that the Departmental Representative approves the detail design inherent in the product data, responsibility for which shall remain with Contractor submitting same, and such review shall not relieve Contractor of responsibility for errors or omissions in product data or of responsibility for meeting all requirements of the construction and Contract Documents. Without restricting generality of foregoing, Contractor is responsible for dimensions to be confirmed and correlated at job site, for information that pertains solely to fabrication processes or to techniques of construction and installation and for co-ordination of Work of all sub-trades.

1.4 SCHEDULES,
PERMITS AND
CERTIFICATES

- .1 Upon acceptance of bid, submit to Departmental Representative copy of Work Schedule and various other schedules, permits, certification documents and project management plans as specified in other sections of the Specifications.
- .2 Submit copy of permits, notices, compliance Certificates received by Regulatory Agencies having jurisdiction and as applicable to the Work.
- .3 Submission of above documents to be in accordance with Submittal General Requirements procedures specified in this section.

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1.1DEFINITIONS

- .1 COSH: Canada Occupational Health and Safety Regulations made under Part II of the Canada Labour Code.
- .2 Competent Person: means a person who is:
 - .1 Qualified by virtue of personal knowledge, training and experience to perform assigned work in a manner that will ensure the health and safety of persons in the workplace, and;
 - .2 Knowledgeable about the provisions of occupational health and safety statutes and regulations that apply to the Work and;
 - .3 Knowledgeable about potential or actual danger to health or safety associated with the Work.
- .3 Medical Aid Injury: any minor injury for which medical treatment was provided and the cost of which is covered by Workers' Compensation Board of the province in which the injury was incurred.
- .4 PPE: personal protective equipment.
- .5 Work Site: where used in this section shall mean areas, located at the premises where Work is undertaken, used by Contractor to perform all of the activities associated with the performance of the Work.

1.2SUBMITTALS

- .1 Make submittals in accordance with Section 01 33 00.
- .2 Submit to Departmental Representative, copies of the following documents including updates.
 - .1Site specific Health and Safety Plan.

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- .2 Building permit, compliance certification and other permits obtained.
 - .3 Reports or directives issued by Federal and Provincial Inspectors and other Authorities having jurisdiction.
 - .4 Accident or incident reports.
 - .5 WHMIS - MSDS data sheets.
 - .6 Name of Contractor's Representative designated to perform health and safety supervision in site.
 - .7 Certificate of clearance from Workplace Health Safety and Compensation Commission (Assessment Services Department) of Newfoundland and Labrador.
-
- .3 Submit within five (5) work days of notification of Bid Acceptance. Provide one (1) copy.
 - .4 Departmental Representative will review Health and Safety Plan and provide comments.
 - .5 The Contractor will revise the Plan as appropriate and resubmit within five (5) work days after receipt of comments.
 - .6 Departmental Representative's review and comments made of the Plan shall not be construed as an endorsement, approval or implied warranty of any kind by Canada and does not reduce Contractor's overall responsibility for Occupational Health and Safety of the Work.
 - .7 Submit revisions and updates made to the Plan during the course of Work.

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1.3 COMPLIANCE
REQUIREMENTS

- .1 Comply with the Occupational Health and Safety Act for the Province of Newfoundland and Labrador, and the Occupational Health and Safety Regulations made pursuant to the Act.
- .2 Comply with Canada Labour Code Part II, (entitled Occupational Health and Safety) and the Canada Occupational Health and Safety Regulations (COSH) as well as any other regulations made pursuant to the Act.
 - .1 The Canada Labour Code can be viewed at:
[www.http://laws.justice.gc.ca/en/L-2/](http://laws.justice.gc.ca/en/L-2/)
 - .2 COSH can be viewed at:
[www.http://laws.justice.gc.ca/eng/SOR-86-304/ne.html](http://laws.justice.gc.ca/eng/SOR-86-304/ne.html).
 - .3 A copy may be obtained at: Canadian Government Publishing Public Works & Government Services Canada Ottawa, Ontario, K1A 0S9 Tel: (819) 956-4800 (1-800-635-7943) Publication No. L31-85/2000 E or F).
- .3 Observe construction safety measures of:
 - .1 Part 8 of National Building Code.
 - .2 Municipal by-laws and ordinances.
- .4 In case of conflict or discrepancy between any specified requirements, the more stringent shall apply.
- .6 Maintain Workers Compensation Coverage in good standing for duration of Contract. Provide proof through submission of Certificate of Clearance from Workplace Health, Safety and Compensation Commission (Assessment Services Department) of Newfoundland and Labrador.

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1.4 RESPONSIBILITY

- .1 Be responsible for health and safety of persons on site, safety of property and for protection of persons and environment adjacent to the site to extent that they may be affected by conduct of Work.
- .2 Comply with and enforce compliance by all workers, sub-contractors and other persons granted access to work site with safety requirements of Contract Documents, applicable Federal, Provincial, and local by-laws, regulations, and ordinances, and with site specific Health and Safety Plan.

1.5 SITE CONTROL
AND ACCESS

- .1 Control the Work and entry points to Work Site. Approve and grant access only to workers and authorized persons. Immediately stop and remove non-authorized persons.
- .2 Isolate Work Site from other areas of the premises by use of appropriate means.
 - .1 Erect fences, hoarding, barricades and temporary lighting as required to effectively delineate the Work Site, stop non-authorized entry, and to protect pedestrians and vehicular traffic around and adjacent to the Work and create a safe environment.
 - .2 Post signage at entry points and other strategic locations indicating restricted access and conditions for access.
- .3 Provide safety orientation session to persons granted access to Work Site. Advise of hazards and safety rules to be observed while on site.
- .4 Ensure persons granted site access wear

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appropriate PPE. Supply PPE to inspection
authorities who require access to conduct
tests or perform inspections.

- .5 Secure Work Site against entry when
inactive or unoccupied and to protect
persons against harm. Provide security
guard where adequate protection cannot be
achieved by other means.

1.6 PROTECTION

- .1 Give precedence to safety and health of
persons and protection of environment over
cost and schedule considerations for Work.
- .2 Should unforeseen or peculiar safety
related hazard or condition become evident
during performance of Work, immediately
take measures to rectify situation and
prevent damage or harm. Advise
Departmental Representative verbally and
in writing.

1.7 HAZARD
ASSESSMENTS

- .1 Perform site specific health and safety
hazard assessment of the Work and its
site.
- .2 Carryout initial assessment prior to
commencement of Work with further
assessments as needed during progress of
work, including when new trades and
subcontractors arrive on site.
- .3 Record results and address in Health and
Safety Plan.
- .4 Keep documentation on site for entire
duration of the Work.

1.8 MEETINGS

- .1 Contractor to hold pre-construction health
and safety meeting prior to commencement

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of Work. Ensure attendance of:

- .1 Superintendent of Work.
- .2 Contractor's designated Health & Safety Site Representative.
- .3 Subcontractor's Health and Safety Site Representative.

- .2 Conduct regularly scheduled tool box and safety meetings during the Work in conformance with Occupational Health and Safety regulations.

1.9 HEALTH AND SAFETY PLAN

- .1 Prior to commencement of Work, develop written Health and Safety Plan specific to the work. Implement, maintain, and enforce Plan for entire duration of Work and until final demobilization from site.

1.10 TRAINING

- .1 Use only skilled workers on Work Site who are effectively trained in occupational health and safety procedures and practices pertinent to their assigned task.
- .2 Maintain employee records and evidence of training received. Make data available to Departmental Representative upon request.
- .3 All workers dealing with hazardous materials are required to provide evidence of training, in accordance with Provincial regulations.

1.11 MINIMUM SITE SAFETY RULES

- .1 Notwithstanding requirement to abide by federal and provincial health and safety regulations; ensure the following minimum safety rules are obeyed by persons granted access to Work Site:
 - .1 Wear appropriate PPE pertinent to the Work or assigned task; minimum being

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hard hat, safety footwear, safety
glasses and safety vest.

- .2 Immediately report unsafe condition at site, near-miss accident, injury and damage.
- .3 Maintain site and storage areas in a tidy condition free of hazards causing injury.
- .4 Obey warning signs and safety tags.

1.12 HAZARDOUS
PRODUCTS

- .1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS).
- .2 Keep MSDS data sheets for all products delivered to site.
 - .1 Post on site.
 - .2 Submit copy to Departmental Representative.

1.13 SITE RECORDS

- .1 Maintain on Work Site copy of safety related documentation and reports stipulated to be produced in compliance with Acts and Regulations of authorities having jurisdiction and of those documents specified herein.
- .2 Upon request, make available to Departmental Representative or authorized Safety Officer for inspection.

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- 1.1 RELATED WORK .1 Section 02 41 16 - Sitework, Demolition and Removal.
- 1.2 DEFINITIONS .1 Hazardous Material: Product, substance, or organism that is used for its original purpose; and that is either dangerous goods or a material that may cause adverse impact to the environment or adversely affect health of persons, animals, or plant life when released into the environment.
- 1.3 DISPOSAL OF WASTES AND HAZARDOUS MATERIALS .1 Do not bury rubbish and waste materials on site.
- .2 Do not dispose of hazardous waste or volatile materials, such as mineral spirits, paints, thinners, oil or fuel into waterways, storm or sanitary sewers or waste landfill sites.
- .3 Store, handle and dispose of hazardous materials and hazardous waste in accordance with applicable federal and provincial laws, regulations, codes and guidelines.
- .4 Dispose of construction waste materials and demolition debris, resulting from work, at approved landfill sites only. Carryout such disposal in strict accordance with provincial and municipal rules and regulations. Separate out and prevent improper disposal of items banned from landfills.
- .5 Establish methods and undertake construction practices which will minimize waste and optimize use of construction materials. Separate at source all construction waste materials, demolition debris and product

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packaging and delivery containers into various waste categories in order to maximize recycling abilities of various materials and avoid disposal of debris at landfill site(s) in a "mixed state". Where recycling firms, specializing in recycling of specific materials exist, transport such materials to the recycling facility and avoid disposal at landfill sites.

- .6 Communicate with landfill operator prior to commencement of work, to determine what specific construction, demolition and renovation waste materials have been banned from disposal at the landfill and at transfer stations.

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| <u>1.1 SANITARY FACILITIES</u> | .1 | Provide sanitary facilities for work force in accordance with governing regulations and ordinances. |
| | .2 | Post notices and take such precautions as required by local health authorities. Keep area and premises in sanitary condition. |
| <u>1.2 WATER SUPPLY</u> | .1 | Arrange, pay for and maintain temporary water supply in accordance with governing regulations and ordinances. |
| <u>1.3 SCAFFOLDING</u> | .1 | Design, construct and maintain scaffolding in rigid, secure and safe manner in accordance with CSA797-09, or other applicable standard acceptable to Departmental Representative. |
| <u>1.4 CONSTRUCTION SIGN AND NOTICES</u> | .1 | Contractor or subcontractor advertisement signboards are not permitted on site. |
| | .2 | Only notices of safety or instructions are permitted on site. |
| | .3 | Maintenance and Disposal of Site Signs:
.1 Maintain approved signs and notices in good condition for duration of project and dispose of off site on completion of project or earlier if directed by Departmental Representative. |
| <u>1.5 REMOVAL OF TEMPORARY FACILITIES</u> | .1 | Remove temporary facilities from site when directed by Departmental Representative. |

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PART 1 - GENERAL

- 1.1 GENERAL .1 Conduct cleaning and disposal operations to comply with local ordinances and anti-pollution laws.
- .2 Store volatile waste in covered metal containers, and remove from premises at end of each working day.
- .3 Prevent accumulation of wastes which create hazardous conditions.
- .4 Provide adequate ventilation during use of volatile or noxious substances.
- 1.2 CLEANING DURING CONSTRUCTION .1 Maintain project grounds and public properties in a tidy condition, free from accumulations of waste material and debris. Clean areas on a daily basis.
- .2 Provide on-site garbage containers for collection of waste materials and debris.
- .3 Remove waste materials and debris from site on a daily basis.
- 1.3 FINAL CLEANING .1 In preparation for acceptance of the Work perform final cleaning. Final cleaning to include exterior rake of work area, to satisfaction of Departmental Representative.

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1.1 SECTION

INCLUDES

- .1 Project Record Documents as follows:
 - .1 Manual of paint products used, including
Manufacturer's literature brochures.

1.2 PROJECT RECORD
DOCUMENTS

- .1 Departmental Representative will provide two
copies of Specifications.
- .2 Maintain at site one set of the contract
specifications to record actual "As-Built"
site conditions.

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PART 1 - GENERAL

- 1.1 DESCRIPTION
- .1 This section specifies requirements for demolishing and removing wholly or in part various items designated to be removed or partially removed.
 - .2 Demolition and removal will consist of, but not necessarily be limited to, the following:
 - .1 Removal of loose/flaking paint from the wooden substrate associated with the buildings.

PART 2 - PRODUCTS

NOT APPLICABLE

PART 3 - EXECUTION

- 3.1 EXECUTION
- .1 Inspect site and verify with Departmental Representative objects designated for removal.
- 3.2 REMOVAL
- .1 Do not disturb adjacent work designated to remain in place.
- 3.3 DISPOSAL OF MATERIAL
- .1 All demolished materials will become property of contractor and will be removed from site and disposed of to the satisfaction of Departmental Representative and in accordance with environmental guidelines. It is the sole responsibility of the contractor to dispose of all demolished materials at an approved disposal site. Ensure that disposal site is approved and willing to accommodate any materials disposed of from work site.

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- .2 Contractor shall obtain and pay for all necessary permits and disposal fees for use of an approved waste disposal site.

3.4 RESTORATION

- .1 Upon completion of work, remove debris and leave work site in clean condition.

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PART 1 GENERAL

- 1.1 Related Sections .1 01 33 00 - Submittal Procedures.
- 1.2 References .1 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.
 - .2 Environmental Protection Agency (EPA)
 - .1 Test Method for Measuring Total Volatile Organic Compound Content of Consumer Products, Method 24 (for Surface Coatings).
 - .3 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
 - .4 The Master Painters Institute (MPI)
 - .1 Architectural Painting Specification Manual - February 2004.
 - .2 Standard GPS-1-05, MPI Green Performance Standard for Painting and Coatings.
 - .5 National Fire Code of Canada.
 - .6 Society for Protective Coatings (SSPC)
 - .1 Systems and Specifications, SSPC Painting Manual 2005.
- 1.3 Quality Assurance .1 Qualifications:
- .1 Qualified journeypersons as defined by local jurisdiction to be engaged in painting work

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- .2 Apprentices: may be employed provided they work under direct supervision of qualified journeyperson in accordance with trade regulations.
- .3 Conform to latest MPI requirements for exterior painting work including preparation and priming.
- .4 Materials: in accordance with MPI Painting Specification Manual "Approved Product" listing and from a single manufacturer for each system used.
- .5 Paint materials such as linseed oil, shellac, and turpentine to be highest quality product of an approved manufacturer listed in MPI Painting Specification Manual and to be compatible with other coating materials as required.

1.4 Performance Requirements

- .1 Environmental Performance Requirements:
 - .1 Green Performance in accordance with MPI Standard GPS-1.

1.5 Scheduling

- .1 Submit work schedule for various stages of painting to Engineer for approval. Submit schedule minimum of 48 hours in advance of proposed operations.
- .2 Obtain written authorization from Departmental Representative for changes in work schedule.
- .3 Schedule painting operations to prevent disruption of occupants in and about building.

1.6 Submittals

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:

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- .1 Submit manufacturer's printed product literature, specifications and datasheet and include product characteristics, performance criteria, physical size, finish and limitations.
 - .3 Upon completion, submit records of products used. List products in relation to finish system and include the following:
 - .1 Product name, type and use.
 - .2 Manufacturer's product number.
 - .3 Colour numbers.
 - .4 MPI Environmentally Friendly classification system rating.
 - .5 Manufacturer's Material Safety Data Sheets (MSDS).
 - .4 Provide samples in accordance with Section 01 33 00 - Submittal Procedures.
 - .1 When approved, samples shall become acceptable standard of quality for appropriate on-site surface with one of each sample retained on-site.
 - .2 Submit full range of available colours where colour availability is restricted.
- 1.7 Delivery, Storage And Handling
- .1 Deliver, store and handle as follows:
 - .1 Deliver and store materials in original containers, sealed, with labels intact.
 - .2 Labels: to indicate:
 - .1 Manufacturer's name and address.
 - .2 Type of paint or coating.
 - .3 Compliance with applicable standard.
 - .4 Colour number in accordance with established colour schedule.
 - .3 Remove damaged, opened and rejected

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- materials from site.
- .4 Provide and maintain dry, temperature controlled, secure storage.
 - .5 Observe manufacturer's recommendations for storage and handling.
 - .6 Store materials and supplies away from heat generating devices.
 - .7 Store materials and equipment in well ventilated area with temperature range 7 degrees C to 30 degrees C.
 - .8 Store temperature sensitive products above minimum temperature as recommended by manufacturer.
 - .9 Keep areas used for storage, cleaning and preparation, clean and orderly to approval of Engineer. After completion of operations, return areas to clean condition to approval of Engineer.
 - .10 Remove paint materials from storage only in quantities required for same day use.
 - .11 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling storage, and disposal of hazardous materials.
 - .12 Fire Safety Requirements:
 - .1 Provide one 9 kg Type ABC dry chemical fire extinguisher adjacent to storage area.
 - .2 Store oily rags, waste products, empty containers and materials subject to spontaneous combustion in ULC approved, sealed containers and remove from site on a daily basis.
 - .3 Handle, store, use and dispose of flammable and combustible materials in accordance with the National Fire Code of Canada.

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.2 Waste Management and Disposal:

- .1 Paint, stain and wood preservative finishes and related materials (thinners, solvents, etc.) are regarded as hazardous products and are subject to regulations for disposal. Information on these controls can be obtained from Provincial Ministries of Environment and Regional levels of Government.
- .2 Material which cannot be reused must be treated as hazardous waste and disposed of in an appropriate manner.
- .3 Place materials defined as hazardous or toxic waste, including used sealant and adhesive tubes and containers, in containers or areas designated for hazardous waste.
- .4 To reduce the amount of contaminants entering waterways, sanitary/storm drain systems or into the ground the following procedures shall be strictly adhered to:
 - .1 Retain cleaning water for water-based materials to allow sediments to be filtered out.
 - .2 Retain cleaners, thinners, solvents and excess paint and place in designated containers and ensure proper disposal.
 - .3 Return solvent and oil soaked rags used during painting operations for contaminant recovery, proper disposal, or appropriate cleaning and laundering.
 - .4 Dispose of contaminants in an approved legal manner in accordance with hazardous waste regulations.
 - .5 Empty paint cans are to be dry

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prior to disposal or recycling
(where available).

- .5 Close and seal tightly partly used sealant and adhesive containers and store protected in well ventilated fire-safe area at moderate temperature.

1.8 Ambient
Conditions

- .1 Heating, Ventilation and Lighting:
 - .1 Provide temporary ventilating and heating equipment. Do not perform painting work unless adequate and continuous ventilation and sufficient heating facilities are in place to maintain ambient air and substrate temperatures above 10 degrees C for 24 hours before, during and after paint application until paint has cured sufficiently.
 - .2 Where required, provide continuous ventilation for seven days after completion of application of paint.
 - .3 Perform no painting work unless a minimum lighting level of 323 Lux is provided on surfaces to be painted. Adequate temporary lighting facilities to be provided by General Contractor.
- .2 Temperature, Humidity and Substrate Moisture Content Levels:
 - .1 Unless specifically pre-approved by specifying body, Paint Inspection Agency and, applied product manufacturer, perform no painting work when:
 - .1 Ambient air and substrate temperatures are below 10 degrees C.
 - .2 Substrate temperature is over 32 degrees C unless paint is specifically formulated for

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- application at high temperatures.
- .3 Substrate and ambient air temperatures are expected to fall outside MPI or paint manufacturer's prescribed limits.
- .4 Relative humidity is above 85 % or when dew point is less than 3 degrees C variance between air/surface temperature.
- .5 Rain or snow is forecast to occur before paint has thoroughly cured or when it is foggy, misty, raining or snowing at site.
- .2 Perform no painting work when maximum moisture content of substrate exceeds:
 - .1 15 % for wood.
- .3 Conduct moisture tests using a properly calibrated electronic Moisture Meter.
- .3 Surface and Environmental Conditions:
 - .1 Apply paint to adequately prepared surfaces and to surfaces within moisture limits noted herein.
 - .2 Apply paint when previous coat of paint is dry or adequately cured.
 - .3 Apply paint finishes when conditions forecast for entire period of application fall within manufacturer's recommendations.
 - .4 Do not apply paint when:
 - .1 Temperature is expected to drop below 10 degrees C before paint has thoroughly cured.
 - .2 Substrate and ambient air temperatures are expected to fall outside MPI or paint manufacturer's limits.

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- .3 Surface to be painted is wet,
damp or frosted.
- .5 Provide and maintain cover when paint
must be applied in damp or cold
weather. Heat substrates and
surrounding air to comply with
temperature and humidity conditions
specified by manufacturer. Protect
until paint is dry or until weather
conditions are suitable.
- .6 Schedule painting operations such
that surfaces exposed to direct,
intense sunlight are scheduled for
completion during early morning.
- .7 Remove paint from areas which have
been exposed to freezing, excess
humidity, rain, snow or condensation.
Prepare surface again and repaint.

PART 2 PRODUCTS

- 2.1 Materials .1 Paint materials listed in latest edition
of MPI Approved Products List (APL) are
acceptable for use on this project.
- .2 Paint materials for paint systems: to be
products of single manufacturer.
- .3 Acceptable products (or approved
equivalents), are as follows:
 - .1 Wood siding and trims: Apply one touch-
up coat of Dulux Diamond Exterior Paint
primer (or approved equivalent) to the
bare exposed wooden areas only. Apply 2
coats of Dulux Diamond Exterior Paint (or
approved equivalent) to the entire wooden
structure (wood siding and trims).
- 2.2 Colours .1 The intent is to match the existing
colours (blue for siding and white
trims).

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- .2 Selection of colours will be from manufacturers full range of colours.
- .3 Where specific products are available in restricted range of colours, selection will be based on limited range.

PART 3 EXECUTION

- 3.1 Manufacture Instructions .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheets.
- 3.2 Preparation .1 Perform preparation and operations for exterior painting in accordance with MPI Maintenance Repainting Manual except where specified otherwise.
 - .2 Apply paint materials in accordance with paint manufacturer's written application instructions.
 - .3 Clean and prepare exterior surfaces to be repainted in accordance with MPI Maintenance Repainting Manual requirements.
 - .4 Prevent contamination of cleaned surfaces by salts, acids, alkalis, other corrosive chemicals, grease, oil and solvents before priming and between applications of remaining coats. Touch-up, spot prime, and apply primer, paint, or pre-treatment as soon as possible after cleaning and before deterioration occurs.
- 3.3 Protection .1 Protect factory finished products and equipment.
 - .2 Protect passing pedestrians, and general

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public in and about building.

- .3 Remove light fixtures, surface hardware on doors, and other surface mounted equipment, fittings and fastenings prior to undertaking painting operations. Store items and re-install after painting is completed.
- .4 As painting operations progress, place "WET PAINT" signs in pedestrian and vehicle traffic areas to approval of Departmental Representative.

3.4 Application

- .1 Method of application to be approved by Departmental Representative. Apply paint by brush, roller or sprayer. Conform to manufacturer's application instructions unless specified otherwise.
- .2 Spray Application:
 - .1 Provide and maintain equipment that is suitable for intended purpose, capable of properly atomizing paint to be applied, and equipped with suitable pressure regulators and gauges.
 - .2 Keep paint ingredients properly mixed in containers during paint application either by continuous mechanical agitation or by intermittent agitation as frequently as necessary.
 - .3 Apply paint in a uniform layer, with overlapping at edges of spray pattern. Brush out immediately runs and sags. Use brushes to work paint into cracks, crevices and places that are not adequately painted by spray.
- .3 Brush and Roller Application:
 - .1 Apply paint in a uniform layer using

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- brush and/or roller of types suitable for application.
- .2 Work paint into cracks, crevices and corners.
 - .3 Paint surfaces and corners not accessible to brush using spray, daubers and/or sheepskins. Paint surfaces and corners not accessible to roller using brush, daubers or sheepskins.
 - .4 Brush and/or roll out runs and sags, and over-lap marks. Rolled surfaces shall be free of roller tracking and heavy stipple unless approved by Engineer.
 - .5 Remove runs, sags and brush marks from finished work and repaint.
- .4 Apply coats of paint as continuous film of uniform thickness. Repaint thin spots or bare areas before next coat of paint is applied.
 - .5 Allow surfaces to dry and properly cure after cleaning and between subsequent coats for minimum time period as recommended by manufacturer.
 - .6 Sand and dust between coats to remove visible defects.
 - .7 Finish surfaces both above and below sight lines as specified for surrounding surfaces, including such surfaces as projecting ledges.
 - .8 Finish top, bottom, edges and cutouts of doors after fitting as specified for door surfaces.

3.5 Field
Quality Control

- .1 Inspection:
 - .1 Advise Departmental Representative when each surface and applied coating is ready for

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inspection. Do not proceed with
subsequent coats until previous coat
has been approved.

- 3.6 Cleaning .1 Proceed in accordance with Section
01 74 11 - Cleaning.
- .1 Remove paint where spilled, splashed,
splattered or sprayed as work
progresses using means and materials
that are not detrimental to affected
surfaces.
- 3.7 Restoration .1 Clean and re-install hardware items
removed before undertaken painting
operations.
- .2 Remove protective coverings and warning
signs as soon as practical after
operations cease.
- .3 Remove paint splashings on exposed
surfaces that were not painted. Remove
smears and spatter immediately as
operations progress, using compatible
solvent.
- .4 Protect freshly completed surfaces from
paint droppings and dust to approval of
Engineer. Avoid scuffing newly applied
paint.
- .5 Restore areas used for storage, cleaning,
mixing and handling of paint to clean
condition as approved by Departmental
Representative.

Appendix A: General Photos



Administration Building (Photos taken 2014)



FRC Storage Building (Photo taken 2014)



FRC Storage Building (Photo taken 2014)



Site Plan