FACILITIES MANAGEMENT
OPEN CALL FOR BIDS

FOR

PAINTING, PLASTERING AND RELATED REPAIRS MAINTENANCE/SERVICE CONTRACT

Request for Open Call Number: **TFM-013-26**

Issued: **March 10, 2026**

Submission Deadline: **Thursday, April 2, 2026 @ 10:00am NDT**

REQUEST FOR OPEN CALL FOR BIDS INFORMATION SHEET

Request for Open Call			
Title:	**Painting, Plastering and Related Repairs Maintenance/Service Contract**		
Open Call #:	**TFM-013-26**	Issue Date:	**March 10, 2026**
Questions Deadline:	**72 hours prior to close time**	Closing Date & Time: Bid Submission Format: Opening Date, Time & Location:	**Thursday, April 2, 2026 @ 10:00 AM NDT** **opencalls@mun.ca** **Thursday, April 2, 2026 @ 10:30 AM NDT** **Via Conference line: 1-416-915-6530 (toll free) Access Code: 2770 586 8534 Attendee ID: Please press Pound(#)**
Bids Irrevocable Period after Submission Deadline:			**90 days**

Bid Submission: Responses to this solicitation must be submitted by email to opencalls@mun.ca Email subject line must read: BID SUBMISSION: TFM-013-26 Painting, Plastering and Related Repairs Maintenance/Service Contract

Inquiries and Communication:

Inquiries and communication: Financial and Administrative Services, Strategic Procurement Office, Memorial University of Newfoundland, opencalls@mun.ca. Inquiries accepted only via email. No phone calls will be accepted. **Please reference TFM-013-26 PAINTING, PLASTERING AND RELATED REPAIRS MAINTENANCE/SERVICE CONTRACT.**

Bids submitted by fax, mail, courier, drop off or by any other means of delivery other than by email stated above shall not be accepted.

ABOUT MEMORIAL UNIVERSITY

As Newfoundland and Labrador's only university, Memorial has a special obligation to the people of this province. Established as a memorial to the Newfoundlanders who lost their lives on active service during the First and Second World Wars, Memorial University draws inspiration from these shattering sacrifices of the past as we help to build a better future for our province, our country and our world.

We are a multi-campus, multi-disciplinary, public university committed to excellence in teaching and learning, research and scholarship, and to public engagement and service. We strive to have national and global impact, while fulfilling our social mandate to provide access to university education for the people of the province and to contribute to the social, cultural, scientific and economic development of Newfoundland and Labrador and beyond.

The Memorial experience goes beyond academics; it invites a discovery of self, community and place. At Memorial, we celebrate our unique identity through the stories of our people – the work of scholars and educators, the ingenuity of students, the achievements of alumni – and the impact we collectively make in the province, the country and the world. Memorial is the natural place where people and ideas become.

Memorial University has more than 18,500 students and 3,600 faculty and staff spread across four campuses and nearly 100,000 alumni active throughout the world. From local endeavors to research projects of national importance, Memorial's impact is felt far and wide.

Mission, Vision and Values

Vision

Memorial University will be one of the most distinguished public universities in Canada and beyond, and will fulfill its special obligation to the people of Newfoundland and Labrador.

Mission

Memorial University is an inclusive community dedicated to innovation and excellence in teaching and learning, research, scholarship, creative activity, service and public engagement.
Memorial welcomes and supports students and scholars from all over the world and contributes knowledge and expertise locally, nationally and internationally.

Values

Excellence: Encouraging and promoting excellence through innovation and creativity, rigor and pragmatism.

Integrity: Being honest and ethical in all interactions, maintaining the highest ethical standards in teaching, research, public engagement and service.

Collegiality: Engaging others with respect, openness and trust in pursuit of a common purpose, having regard for individuals, ideals and the institution as a whole.

Inclusiveness and diversity: Embracing and acting on responsibility to guarantee diversity and equity.

Responsiveness: Being receptive to individuals and communities.

Accountability: Accepting responsibility for achievement of common goals and objectives.

Freedom and Discovery: Supporting the freedom to pursue knowledge that is based on individual and collective intelligence, curiosity, ingenuity and creativity.

Recognition: Acknowledging, tangibly, all aspects of university enterprise including teaching and learning, research, scholarship, creative activity and public engagement.

Responsibility to place: Valuing and fulfilling the special obligation to the people of Newfoundland and Labrador by supporting and building capacity for excellence that:

- addresses needs and opportunities for Newfoundland and Labrador;
- engages the university community on matters of national and international significance;
- produces and delivers academic programs of national and international calibre; and,
- Recognizes the dynamic opportunities presented by a multi-campus institution.

Responsibility to learners: Recognizing students as a first priority and providing the environment and support to ensure their academic and personal success.

Interdisciplinary collaboration: Supporting overarching themes in all pursuits that cut across academic units and address significant opportunities and challenges for which Memorial is particularly well positioned to build nationally and internationally recognized capacity.

Sustainability: Acting in a manner that is environmentally, economically and socially sustainable in administration, academic and research programs.

Memorial's exceptional staff and students contribute to the vitality and positive environment of the university through active community engagement. Memorial University has always been a publicly engaged institution. Since the founding of the University in 1949, the work of many of Memorial's students, faculty and staff has emphasized the importance of strong, sustained partnerships with members of the public of Newfoundland and Labrador and beyond.

Faculty and Staff

Memorial is one of the largest employers in the province, with approximately 3,600 faculty and staff. Memorial has been recognized as an Employer of Distinction by the Newfoundland and Labrador Employers' Council, which is reflective of its investment in comprehensive benefits, services such as childcare and recreation facilities, emphasis on work-life balance, and its vibrant work environment.

Governance and Administration

The management, administration and control of the property, revenue, business and affairs of the University are vested in a Board of Regents. The Board is appointed under the *Memorial University Act* and is responsible for the management, administration, and control of the property, revenue, business and affairs of the university. Matters of an academic character are in general charge of the Senate of the University.

For more information on Memorial University of Newfoundland, please visit: Memorial home

page: http://www.mun.ca/

Territory Acknowledgements at Memorial:

We acknowledge that the lands on which Memorial University's Campus are situated are in the traditional territories of diverse Indigenous groups and we acknowledge with respect the diverse histories and cultures of the Beothuk, *Mi'kmaq, Innu, and Inuit of this province.*

PART 1 – SUBMISSION INSTRUCTIONS

1.1 Bids to be Submitted on Time

Bids must be submitted as set out above on or before the Submission Deadline. Bids submitted after the Submission Deadline will be rejected. Onus and responsibility rest solely with the bidder to submit its bid to the email indicated in the Open Call for Bids on or before the Submission Deadline. The Owner does not accept any responsibility for any bids submitted by means other than the email listed above. Bidders making submissions near the deadline do so at their own risk due to server availability. The time for the closing will be determined according to the inbox, time stamp on opencalls@mun.ca . Bids received after closing time based on this time stamp, will NOT be considered.

1.2 Bids to be Submitted in Prescribed Format

Bidders should submit **one (1)** email submission in PDF format. Please note: File size cannot exceed 15 MB. Otherwise, server may reject bid submission due to size. ***Bids submitted by fax, mail, courier, drop off or by any other means of delivery other than by email stated above shall not be accepted.***

1.3 Amendment of Bids

Bidders may amend their bids after they have been submitted if, and only if, the amendment is emailed prior to the Submission Deadline marked BID SUBMISSION AMENDMENT followed by open call number and name. Bid revisions, changes and alterations may be made only by completing a new bid. Previous submissions will be cancelled and the submission with the most recent date and time will be considered the final bid.

Email inquiries and requests for clarification shall be accepted up to **72 hours** prior to the closing time. Inquiries and requests for clarification received after this date shall not be addressed. The Strategic Procurement Office will be the only official source of information regarding this Open Call for Bids and information from any other source shall be considered unofficial and may not be correct.

To ensure consistency and quality in the information provided to bidders the Owner shall provide, by way of amendment to this Open Call for Bids, in the form of an addendum, any relevant information with respect to the Open Call inquiries received in writing without revealing the source of those inquiries. Bidders are cautioned that it is their responsibility to ensure that they receive all information relevant to this Open Call. The Owner shall not be responsible for bidders who fail to inform themselves regarding the scope and nature of the work. The Owner shall publish all amendments on Memorial University's current service providers: MERX: www.merx.com, BIDS: www.bids.ca and PODS: www.pods.net . In addition, all amendments will be published on https://www.mun.ca/finance/strategic_procurement/ . Bidders should check on a regular basis for Open Call updates. Bidders are solely responsible for ensuring they are aware of and have complied with all amendments by tender closing time. In the event there is a discrepancy between the service providers MERX, Bids, and PODS and the https://www.mun.ca/finance/strategic_procurement/ website the https://www.mun.ca/finance/strategic_procurement/ is the official website. Bidders are welcome to register their email address through opencalls@mun.ca to receive addendum notifications from Open Calls as a matter of courtesy. This does not relieve any Bidder of their responsibility to ensure all addenda has been received.

1.4 Withdrawal of Bids

Bidders may withdraw their bids prior to the Submission Deadline. To withdraw a bid, a notice of withdrawal must be sent to the opencalls@mun.ca email address prior to the Submission Deadline. The Owner is under no obligation to return withdrawn bids.

1.5 Bids Irrevocable after Submission Deadline

Bids shall be irrevocable for a period of **90** days running from the moment that the Submission Deadline passes.

1.6 Delivery

Time is of the essence and delivery schedule(s) are legally binding. Memorial University reserves the right to assess penalties or cancel awards to Bidders who fail to meet the stated delivery or completion dates. Delivery of all materials and services must be DAP (delivered at place) or DDP (delivered duty paid (all locations) and local environs.

1.7 Signature

Memorial University, in consideration of section 11 of the Electronic Commerce Act, confirms its acceptance of electronic signatures, or other acceptable form of electronic consent, in satisfaction of the signature requirement for bid submissions. The electronic form of signature or consent must be directly related to the relevant bid submission at issue and must be reliable, in a manner as determined by Memorial University, for the purpose of identifying the person submitting the bid response. By submitting a bid under this process, the bidder confirms that the signatory has the appropriate and proper authority to bind the bidder to its submission, a confirmation upon which Memorial University relies in the processing of the bid submission. **Bidders must complete Appendix B –Submission Form. Any bids received without Appendix B completed will be deemed non-complaint.**

1.8 Closure

In the event of the University closing earlier than normally expected prior to a scheduled open calls closing for that day, or for the full day, the closing date for those open calls will be extended to the next business day for the University at the same time as listed originally.

1.9 Corporations Act

The Corporations Act of Newfoundland and Labrador requires that an extra-provincial company be registered before it begins or carries on business in the Province. If your company is not registered, please apply for the appropriate forms and procedures to:

Commercial Registrations Division

Dept of Government Services, PO Box 8700 St John's, NL Canada A1B 4J6

Phone: 709-729-3317, Fax: 709-729-0232

Website: http://www.gs.gov.nl.ca/registries/companies/corp_art_inc.html

[End of Part 1]

PART 2 – EVALUATION AND AWARD

2.1 Stages of Evaluation

The Owner will conduct the evaluation of bids in the following stages:

2.2 Stage I – Mandatory Submission Requirements

Stage I will consist of a review to determine which bids comply with all the mandatory submission requirements. Bids that do not comply with all the mandatory submission requirements as of the Submission Deadline will, subject to the express and implied rights of the Owner, be disqualified and not evaluated further.

2.3 Stage II – Mandatory Technical Requirements

Stage II will consist of a review to determine which bids comply with all the mandatory technical requirements. Bids that do not comply with all the mandatory technical requirements as of the Submission Deadline will, subject to the express and implied rights of the Owner, be disqualified and not evaluated further. The mandatory technical requirements are listed in Appendix A - Specifications.

2.4 Stage III – Pricing

Stage III will consist of a scoring of the submitted pricing of each compliant bid in accordance with the evaluation method set out in the Pricing Form (Appendix C). The evaluation of price will be undertaken after the evaluation of mandatory requirements has been completed.

2.5 No Amendment to Forms

Other than inserting the information requested on the mandatory submission forms set out in the Open Call, a bidder may not make any changes to any of the forms. Any bid containing any such changes, whether on the face of the form or elsewhere in the bid, shall be disqualified.

2.6 Selection of Lowest Compliant Bidder as Preferred Supplier

Subject to the Owner's reserved rights, the compliant bidder with the lowest pricing will be the preferred supplier and will be selected to enter into the Agreement in accordance with the following section. In the event of a tie, the preferred supplier will be determined by way of a coin toss, in accordance with the Public Procurement Policy.

Provincial suppliers, suppliers with a place of business in Newfoundland and Labrador, will be given provincial supplier preference provision. This mandates an allowance of ten percent for provincial suppliers for all procurement below trade agreement thresholds.

Please note, the supplier preference does not apply when the estimated value of the commodity is above the trade agreement threshold shown below.

Public Body	Thresholds			
	Goods	Services	Public Works	Lease of Space
Memorial University	$133,800	$133,800	$334,400	$100,000

2.7 Notice to Bidder and Execution of Agreement

Notice of selection by the Owner to the preferred supplier shall be in writing. The preferred supplier shall execute the Agreement, the form and content of which will be mutually agreed upon between the parties and satisfy any other applicable conditions of this open call within fifteen (15) days of notice of selection. This provision is solely for the benefit of the Owner and may be waived by the Owner.

2.8 Failure to Enter into Agreement

If a selected bidder fails to execute the Agreement or satisfy the pre-conditions of award listed in the Open Call Particulars within fifteen (15) days of notice of selection the Owner may, without incurring any liability, proceed with the selection of another bidder and pursue all remedies available to the Owner.

2.9 Payment Terms

The University's standard payment terms are net 30 days after delivery of goods, or net 15 days after successful completion of installation as applicable. In the case of services, payment terms are also net 30 days after successful completion of the service. These terms shall also apply in the case of sub-contracted items. Prepayments will not be considered unless the supplier provides an irrevocable standby letter of credit, or the supplier provides a credit reference from its banker satisfactory to the Director of Financial and Administrative Services.

[End of Part 2]

PART 3 – TERMS AND CONDITIONS OF THE OCB PROCESS

3.1 General Information and Instructions

3.2 Open Call Incorporated into Bid

All the provisions of this Open call are deemed to be accepted by each bidder and incorporated into each bidder's bid. A bidder who submits conditions, options, variations or contingent statements to the terms as set out in this Open call, either as part of its bid or after receiving notice of selection, unless otherwise indicated, shall be disqualified.

3.3 Bidders to Follow Instructions

Bidders should structure their bids in accordance with the instructions in this Open call. Where information is requested in this Open Call, any response made in a bid should reference the applicable section numbers of this Open Call.

3.4 Bids in English

All bids are to be in English only.

3.5 No Incorporation by Reference

The entire content of the bidder's bid should be submitted in a fixed form, and links to the content of websites or other external documents referred to in the bidder's bid but not attached will not be considered to form part of its bid.

3.6 References and Past Performance

In the evaluation process, the Owner may consider information provided by the bidder's references and may also consider the bidder's past performance or conduct on previous contracts with the Owner or other institutions.

3.7 Information in Open Call Only an Estimate

The Owner and its advisors make no representation, warranty or guarantee as to the accuracy of the information contained in this Open Call or issued by way of addenda. Any quantities shown or data contained in this Open Call or provided by way of addenda are estimates only and are for the sole purpose of indicating to bidders the general scale and scope of the Deliverables. It is the bidder's responsibility to obtain all the information necessary to prepare a bid in response to this Open Call

3.8 Bidders to Bear Their Own Costs

The bidder will bear all costs associated with or incurred in the preparation and presentation of its bid, including, if applicable, costs incurred for interviews or demonstrations.

3.9 Bid to be Retained by the Owner

The Owner will not return the bid or any accompanying documentation or samples submitted by a bidder.

3.10 Trade Agreements

Bidders should note that procurements falling within the scope of the Canadian Free Trade Agreement, and/or the Canada-European Union Comprehensive Economic Trade Agreement are subject to those trade agreements but that the rights and obligations of the parties will be governed by the specific terms of this Open Call.

3.11 No Guarantee of Volume of Work or Exclusivity of Contract

The Owner makes no guarantee of the value or volume of work to be assigned to the preferred supplier. The Agreement will not be an exclusive contract for the provision of the described Deliverables. The Owner may contract with others for goods and services the same as or similar to the Deliverables or may obtain such goods and services internally.

3.12 Communication after issuance of open call

Bidders shall promptly examine all the documents comprising this Open Call, and

(a) shall report any errors, omissions or ambiguities; and
(b) may direct questions or seek additional information

in writing by email to opencalls@mun.ca on or before the Deadline for Questions. All questions or comments submitted by bidders by email to the Open Call Contact shall be deemed to be received once the email has entered the Open Call Contact's email inbox. No such communications are to be directed to anyone other than the Open Call Contact, and the Owner shall not be responsible for any information provided by or obtained from any source other than the Strategic Procurement Office. The Owner is under no obligation to provide additional information. It is the responsibility of the bidder to seek clarification from the Open Call Contact on any matter it considers to be unclear. The Owner shall not be responsible for any misunderstanding on the part of the bidder concerning this Open Call or its process.

3.13 All New Information to Bidders by Way of Addenda

This Open Call may be amended only by addendum in accordance with this section. If the Owner, for any reason, determines that it is necessary to provide additional information relating to this Open Call, such information will be communicated to all bidders by addenda. Each addendum forms an integral part of this Open Call and may contain important information, including significant changes to this Open Call. Bidders are responsible for obtaining all addenda issued by the Owner. In the Submission Form (Appendix B), bidders MUST confirm their receipt of all addenda by setting out the number of each addendum in the space provided.

3.14 Addenda and Extension of Submission Deadline

Any addendum added within four (4) calendar days of the Open Call for Bids closing (Including on closing day) will extend closing by a reasonable period to be determined by Memorial University. Verify, Clarify and Supplement

When evaluating bids, the Owner may request further information from the bidder or third parties in order to verify, clarify or supplement the information provided in the bidder's bid. The response received by the Owner shall, if accepted by the Owner, form an integral part of the bidder's bid.

3.15 Notification to Other Bidders

In accordance with section 30 of the *Public Procurement Regulations*, once the Agreement is awarded by the Owner, the outcome of the Open Call will be publicly posted at https://www.mun.ca/finance/strategic_procurement/ .There will be no issuing of regret letters.

3.16 Debriefing

In accordance with the Public Procurement Act and Regulations, unsuccessful bidders may request a debriefing within ten (10) business days after the award has been posted. The request must be sent in writing to the Open call contact. The intent of the debriefing information session is to provide the bidder an overview of their bid and why it was unsuccessful and to help the bidder in presenting a better bid with subsequent procurement opportunities. The debriefing process is not for the purpose of providing an opportunity to challenge the procurement process or its outcome. A debriefing shall not disclose information regarding another bidder's bid.

3.17 Supplier Complaint Process

If a bidder wishes to register a complaint with respect to the Open Call process, the complaint should be provided in writing and within the parameters established by section 25 of the *Public Procurement Regulations*, as amended. The notice must provide a detailed explanation of the bidder's concerns with the procurement process or its outcome, in addition to such other information as may be required by the *Regulations*. Bidders should note that these complaint procedures are separate and distinct from any dispute resolution processes that may be provided for under applicable trade agreements. If a bidder wishes to dispute a matter under an applicable trade agreement, the bidder must follow the process set out in the trade agreement.

3.18 Conflict of Interest and Prohibited Conduct

3.19 Conflict of Interest

The Owner may disqualify a bidder for any conduct, situation or circumstances, determined by the Owner, in its sole and absolute discretion, that constitutes a conflict of interest.

The Owner reserves the right to disqualify any bidder that in the Owner's sole opinion has an actual or potential conflict of interest or an unfair advantage.

For the purposes of this Open Call, the term "Conflict of Interest" includes, but is not limited to, any situation or circumstance where in relation to the Open Call process, the bidder has an unf air advantage or engages in conduct, directly or indirectly, that may give it an unfair advantage, including but not limited to: (i) having, or having access to, confidential information of the Owner in the preparation of its bid that is not available to other bidders, (ii) communicating with any person with a view to influencing preferred treatment in the Open Call process (including but not limited to the lobbying of decision makers involved in the Open Call process), or (iii) engaging in conduct that compromises, or could be seen to compromise, the integrity of the open and competitive Open Call process or render that process non-competitive or unfair.

Bidders are required to disclose, to the Open Call Contact, any potential or perceived conflict of interest issues prior to Open Call closing date and time.

3.20 Disqualification for Prohibited Conduct

The Owner may disqualify a bidder, rescind a notification of selection or terminate a contract subsequently entered if the Owner determines that the bidder has engaged in any conduct prohibited by this Open Call.

3.21 Bidder Not to Communicate with Media

Bidders must not at any time directly or indirectly communicate with the media in relation to this Open Call or any agreement entered pursuant to this Open Call without first obtaining the written permission of the Open Call Contact.

3.22 No Lobbying

Bidders must not, in relation to this Open Call or the evaluation and selection process, engage directly or indirectly in any form of political or other lobbying whatsoever to influence the selection of the successful bidder(s).

3.23 Illegal or Unethical Conduct

Bidders must not engage in any illegal business practices, including activities such as bid-rigging, price-fixing, bribery, fraud, coercion or collusion. Bidders must not engage in any unethical conduct, including lobbying, as described above, or other inappropriate communications; offering gifts to any employees, officers, agents, elected or appointed officials or other representatives of the Owner; deceitfulness; submitting bids containing misrepresentations or other misleading or inaccurate information; or any other conduct that compromises or may be seen to compromise the competitive process provided for in this Open Call.

3.24 Past Performance or Past Conduct

The Owner may prohibit a supplier from participating in a procurement process based on past performance or based on inappropriate conduct in a prior procurement process, including but not limited to the following:

(a) illegal or unethical conduct as described above.

(b) the refusal of the supplier to honor submitted pricing or other commitments; or

(c) any conduct, situation or circumstance determined by the Owner, in its sole and absolute discretion, to have constituted a Conflict of Interest.

In addition, the Owner may suspend the bidding privileges of a supplier regarding non-compliant or substandard performance in accordance with section 26 of the *Public Procurement Regulations*.

3.25 Confidential Information of the Owner

All information provided by or obtained from the Owner in any form in connection with this Open Call either before or after the issuance of this Open Call:

(a) is the sole property of the Owner and must be treated as confidential.

(b) is not to be used for any purpose other than replying to this Open Call and the performance of the Agreement.

(c) must not be disclosed without prior written authorization from the Owner; and

(d) must be returned by the bidder to the Owner immediately upon the request of the Owner.

3.26 Confidential Information of Bidders

This procurement process is subject to the *Access to Information and Protection of Privacy Act, 2015* (*ATIPPA, 2015*). A Proponent must identify any information in its Proposal or any accompanying documentation supplied in confidence for which confidentiality is requested to be maintained by the Owner. The confidentiality of such information will be maintained by the Owner, except as otherwise required by law or by order of a court or tribunal. Proponents are advised that their Proposal will, as necessary, be disclosed, on a confidential basis, to advisers retained by the Owner to advise or assist with the Request for Proposal process, including the evaluation of Proposals.

The Proponent agrees that any specific information in its submission that may qualify for an exemption from disclosure under subsection 39(1) of the *ATIPPA, 2015* has been identified in its submission. If no specific information has been identified it is assumed that, in the opinion of the Proponent, there is no specific information that qualifies for an exemption under the subsection 39(1) of the *ATIPPA, 2015*.

Contracting with the Owner is a public process. Information provided through this process will be disclosed when requested under the *ATIPPA, 2015*, except where disclosure of that information is harmful to the business' interests, as set out in the three-part test in the *ATIPPA, 2015*.

Information, including the financial value of a contract resulting from this procurement process, will be publicly released as part of the award notification process, in accordance with section 30 of the *Public Procurement Regulations*.

If a Proponent has any questions about the collection and use of personal information pursuant to this Request for Proposal, questions are to be submitted to the Request for Proposal Contact. Further information relating to subsection 39(1) of the ATIPPA, 2015 is provided in guidance documents available through the Office of the Information and Privacy Commissioner at

https://oipc.nl.ca/guidance/documents.

3.27 Reserved Rights of the Owner

The Owner reserves the right to:

(a) make public the names of any or all bidders as well as bid price and value of contract.

(b) make changes, including substantial changes, to this Open Callprovided that those changes are issued by way of addendum in the manner set out in this Open Call.

(c) request written clarification or the submission of supplementary written information in relation to the clarification request from any bidder and incorporate a bidder's response to that request for clarification into the bidder's bid. This shall not be an opportunity for bid repairs.

(d) assess a bidder's bid on the basis of: (i) a financial analysis determining the actual cost of the bid when considering factors including quality, service, price and transition costs arising from the replacement of existing goods, services, practices, methodologies and infrastructure (howsoever originally established); and (ii) in addition to any other evaluation criteria or considerations set out in this Open Call consider any other relevant information that arises during this Open call process.

(e) waive minor irregularities and formalities and accept bids that substantially comply with the requirements of this Open Call.

(f) verify with any bidder or with a third party any information set out in a bid.

(g) check references other than those provided by any bidder.

(h) disqualify a bidder, rescind a notice of selection or terminate a contract subsequently entered if the bidder has engaged in any conduct that breaches the process rules or otherwise compromises or may be seen to compromise the competitive process.

(i) cancel this Open Call process at any stage.

(j) cancel this Open Call process at any stage and issue a new Open Call for the same or similar deliverables.

(k) accept any bid in whole or in part; or

(l) reject any or all bids.

(m) not necessarily select the lowest or any bidder.

And these reserved rights are in addition to any other express rights or any other rights that may be implied in the circumstances.

3.28 Limitation of Liability

By submitting a bid, each bidder agrees that:

(a) neither the Owner nor any of it employees, officers, agents, elected or appointed officials, advisors or representatives will be liable, under any circumstances, for any claim arising out of this Open Call process including but not limited to costs of preparation of the bid, loss of profits, loss of opportunity or for any other claim; and

(b) the bidder waives any right to or claim for any compensation of any kind whatsoever, including claims for costs of preparation of the bid, loss of profit or loss of opportunity by reason of the Owner's decision not to accept the bid submitted by the bidder for any reason, the Owner's decision to enter into an agreement with any other bidder or to cancel this bidding process, and the bidder shall be deemed to have agreed to waive such right or claim.

3.29 Governing Law and Interpretation

These Terms and Conditions of the Open Call Process:

(a) are intended to be interpreted broadly and independently (with no particular provision intended to limit the scope of any other provision).

(b) are non-exhaustive and shall not be construed as intending to limit the pre-existing rights of the Owner; and

(c) are to be governed by and construed in accordance with the laws of the Province of Newfoundland & Labrador and the federal laws of Canada applicable therein.

3.30 Facility Compliance Requirement

(a) Equipment, power tools, instruments and appliances intended for use within Memorial University's facilities must comply with all regulatory requirements related to use and/or installation in University facilities. This includes but is not limited to certification/listing by recognized agencies, Pressure Vessel Act of Newfoundland and Labrador and similar.

(b) Items provided related to this open call that receive power from the University's electrical system must be certified or listed for use within Canada by a recognized agency such as Canadian Standards Association (CSA) or Underwriter Laboratories Canada (ULc). A full list of agencies recognized by Memorial University is available upon request.

(c) Equipment, tools, instruments and appliances that generate pressure may require registration as a pressure system with the Province of Newfoundland and Labrador. Compliance with the Boiler, Pressure Vessel and Compressed Gas Regulations under the Public Safety Act of Newfoundland and Labrador and the Boiler, Pressure Vessel, and Pressure Piping Code CSA B51:19 shall be demonstrated.

(d) The vendor is responsible for all costs associated with ensuring the system is compliant with legislative requirements and for the application and registration processes. Field certifications may be considered but all costs and efforts for such scenarios are the responsibility of the vendor.

[End of Part 3]

PART 4 – ENVIRONMENTAL HEALTH AND SAFETY REQUIREMENTS

4. Environmental Health and Safety Requirements

Maintaining a healthy and safe environment for all members of the campus community, as well as visitors, is a priority with the University. This involves a commitment from all sectors of the campus community and extends to outside agencies having occasion to come on campus to conduct business.

The following requirements will apply to all work undertaken by contractors and service personnel on any University property or for any work undertaken on behalf of the Owner.

4.1.0 Regulations, Codes and Standards

Contractors shall be familiar with and abide by provisions of various safety codes and standards applicable to the work performed and should refer to *1.21.5 of General Conditions*:

1.21.5 The Contractor shall be completely responsible for the safety of the Work as it applies to protection of the public and property and construction of the Work.

The codes that must be followed and enforced for safety are:

a) The National Building Code, Part 8, Safety Measures at Construction and Demolition Sites (Latest Edition).

b) Canadian Code for Construction Safety (Latest Edition) as issued by the Associate Committee of the National Building Code.

c) The Occupational Health and Safety Act of Newfoundland and Labrador (most current version) and Regulations.

In particular, strict adherence to the Provincial Occupational Health and Safety Act and Regulations and with the National Building Code of Canada, Part 8 is required

4.2.0 General Health and Safety Regulations

a. Contractors/service agencies shall ensure that members of the campus community are not endangered by any work or process in which they may be engaged. Work areas shall be adequately barricaded, and if dust or fumes are generated, suitable enclosures shall be installed to contain such emissions.

b. No material shall be stored in such a way as to obstruct walkways or represent a danger to pedestrian or vehicular traffic.

c. Adequate protection shall be provided to prevent the possibility of goods falling from scaffolding or elevated areas. Areas where goods are being loaded or off loaded shall be barricaded or otherwise protected to prevent unauthorized entry. Appropriate warning signs must be posted.

d. The work areas must be kept reasonably clean and free from debris which could constitute a fire hazard. Care must be taken to ensure that the work process does not activate fire alarm detection devices. (Generation of dust and fumes can activate smoke detectors causing a false alarm).

e. Due consideration shall be given to fire safety in buildings. Flammable goods must be kept away from sources of ignition. No work involving the use of open flame devices must be undertaken around flammable solvents of gases.

f. Some University buildings contain asbestos and other hazardous materials. Do not alter or disturb any goods believed to contain asbestos goods (unless this is a duly authorized part of the project). Consult with University officials before proceeding with any work.

g. Safety Data Sheets shall be procured for any hazardous product used on campus. Such sheets shall be made readily available for consultation as required under the Workplace Hazardous Materials Information System (WHMIS).

NOTE: The above requirements are not to be considered all-inclusive and are considered complementary to the safety requirements outlined in the agreement between the University and Supplier. Certain conditions and circumstances may require adherence to additional safety requirements.

As a general requirement, contract/service personnel are expected to conduct all work on campus in a professional and safe manner and to give priority to the safety and welfare of members of the campus community.

4.3.0 Contractor Safety Management

4.3.1 All Contractors and Subcontractors to be used by the Contractor in the execution of the Contract shall be required to submit confirmation of a current third-party occupational health and safety program certification (Letter of Assurance). These may include, but not be limited to, Certificate of Recognition (COR), OHSAS 18001, and CSA Z.1000.

4.3.2 All Contractors and Subcontractors shall be required to review and follow all requirements of the MUN Contractor Safety Management Element in Appendix D.

4.3.3 **Prior to Contract Award, the Contractor will be required to provide the Information requested in 4.3.5 below.**

4.3.4 All Contractors and Subcontractors are required to give the Owner written permission to approach Provincial regulatory authorities for applicable safety-related information on their respective firms.

4.3.5 The Contractor must also provide the following:
(a) Health and Safety policy statement
(b) Safety Program table of contents
(c) Site Hazard Assessment
(d) Letter of Assurance for Compliance

4.3.6 In lieu of a Subcontractors third party program, Contractors shall be required to integrate the Subcontractor(s) into the Contractors program and provide proof of same.

4.3.7 Memorial reserves the right to request and audit the full health and safety program of Contractors and Subcontractors and their associated documentation. This documentation may include, but not be limited to the following:

(a) Health and Safety Program and/or Manual
(b) Site Hazard Assessment
(c) Letter of Assurance for Compliance (third party certification)
(d) Applicable documented safe work practices
(e) Inspection reports and schedules
(f) Required employee safety training certifications and qualifications
(g) Updated list of OHS Committee and/or a worker health and safety representative, or workplace health and safety designate
(h) Proof of completion of the Owner's contractor safety orientation within the prior three years.

4.3.8 Memorial University reserves the right to refuse or cancel any contract with a Contractor that is not in compliance with Memorial's standards for Safety.

4.3.9 The University reserves the right to stop any work or portion of work where no documentation can be produced on site which identifies the hazards presented by a piece of work, safe work procedures for work or certification of employees performing work. The Contractor is liable for any costs incurred by affected parties associated with such a stoppage.

4.3.10 Prior to coming to site all workers must complete the Contractor Safety training found on the MUN website.

https://www.mun.ca/health_safety/training/

4.4.0 Access to Site

4.4.1 All Contractors and Subcontractors to be used in the execution of the Contract shall give advance notification of when they will be on site. Any work to be performed outside of Regular Time must have advanced approval of the Owner.

Any discontinuation of the Work which causes a Contractor or their Subcontractors to suspend operations onsite will require the following:

- Contractor/Subcontractors shall notify the Owner of the stop work date.
- Contractor/Subcontractors shall ensure the site is left in a safe and secure condition.
- Contractor/Subcontractors shall ensure that locks and tags on mechanical and/or electrical systems are removed and, where necessary, replaced by the University.
- Contractor/Subcontractors shall not return to site without expressed prior permission from the Owner.

[End of Part 4]

APPENDIX A – SPECIFICATIONS

1. The Open Call for painting (interior/exterior), plastering and related repairs service contract for Facilities Management, Memorial University of Newfoundland.

2. This contract shall remain in force from the date of award April 1, 2026 to March 31, 2029 or as stated in award letter from the University. The Contract may be extended on a year-to-year basis by mutual consent of the parties to this Contract and for a maximum of three (3) years after the initial contract year. Any further extensions that may be requested, and mutually agreed upon, shall be on a month-by-month basis and subject to the terms of the Contract. Such monthly extensions are meant only to accommodate local work disruptions or new Open Call closing times for the services in question extending beyond the normal end of this Contract. The rates listed in Appendix "C", Pricing Form will be in effect for the period of April 1, 2026 to March 31, 2029. The Contractor must submit documentation of any proposed rate changes for the optional years April 1, 2029 to March 31, 2030, April 1, 2030 to March 31, 2031, April 1, 2031 to March 31, 2032 sixty (60) days prior to the start date for each year. The rates may be subject to negotiation by both parties and acceptance of the University and within the limitations of the Public Procurement Act.

3. The University reserves the right to cancel the contract awarded to the successful bidder, upon a sixty (60) day written notice to the successful bidder. The successful bidder also reserves the right to cancel the contract awarded, upon a sixty (60) day written notification to the University.

4. Memorial University of Newfoundland does not guarantee an amount of work under this contract. This listed amounts in Appendix "C" Pricing Form are estimates only and the successful bidder will be engaged on a As Required Basis.

5. The Supplier agrees that this Open Call will provide a Standing Offer Agreement between the University and the Supplier, whereby the Supplier agrees to sell and supply materials as listed, subject to the terms and conditions stated in the contract. This Standing Agreement will permit Memorial University to requisition on an "as and when required" basis the materials listed herein at the price set against each. Adequate stocks must be kept on hand to cover requirements when requested.

6. The successful bidder(s) may be required, if appropriate, to give a presentation of their services and/or products.

7. Successful bidder(s) will submit itemized invoice on a monthly basis, or when services are provided, to the attention of Department of Facilities Management, indicating the purchase order number and workorder number if provided.

1. GENERAL

1.1 This specification outlines the general requirements for the performance of maintenance painting, plastering and related repairs ("the work"). This specification will cover the general nature of the work, together with the rules, regulations, cautions, etc., which the Contractor must follow in the performance of the work. It is required that all work performed by the Contractor shall be of the highest quality and in accordance with the normally accepted standards of workmanship for the trade involved in the work.

1.2 This Contract shall provide a fixed price unit prices per square foot and/or hourly rates for the work as described in Article 2 in Scope of Work below.

1.3 Conform to the attachment General Conditions and Agreement between the University and Supplier for Maintenance/Service Agreements.

2. SCOPE OF WORK

2.1 The Contractor shall employ only personnel with a minimum of five (5) years' demonstrable experience in the painting trade. The Contractor shall be a certified journeyman in the painting trade or employ a minimum of one (1) journeyman painter in his work force. The journeyman painter will supervise and/or work on all University work.

2.2 The Contractor shall commence work immediately after award of contract.

2.3 The Contractor shall submit fixed unit prices ($/sq. ft. and/or $/hour) on Appendix "B", Price Quote Sheet for painting, plastering and related repairs. This price shall include all labor, materials (with the exception of scaffolding), transportation costs, company overhead and mark-up on a square foot or hourly basis. The University does not guarantee any fixed amount of work. The Contractor will only be paid for the actual number of sq. ft. painted and/or hours actually worked by way of a work order (see section 4) according to the unit prices quoted.

2.4 The Contractor shall also include in the unit $/sq. ft. prices and/or hourly rates quoted the cost of moving and replacing furniture and office equipment as necessary to perform the required work.

2.5 The Contractor shall perform the work on an on required basis. While the Contractor is conducting this work, the University may have a Facilities Management representative on the site of the work.

2.6 The University reserves the right to reject any defective work due to poor workmanship, defective or substandard materials, damage through carelessness or other acts attributable to the Contractor.

2.7 The Contractor shall perform the work of the recognition and/or abatement of asbestos materials as it relates to the painting trade. It is the intent that the Contractor will perform asbestos abatement of a minor nature within the scope of this open call and as it relates to the painting trade only. If a situation arises where the asbestos abatement is outside of the scope of this open call the Contractor will contact the University's representative immediately.

3. CLEAN-UP

3.1 The Contractor shall ensure that the area of the work and adjoining premises are kept clean and tidy at all times throughout the work period, removing all rubbish and debris promptly as it accumulates. Rubbish and surplus material shall be removed promptly from the site and disposed of. No fires will be permitted anywhere on the site. It is the intention that the housekeeping of the building and premises during work be maintained at the highest standard until final completion of all work and the Contractor shall act immediately upon any instruction given by the Manager, Environmental Services or designate for the purpose of correcting any neglect in this respect.

3.2 The Contractor shall be responsible to clean up their debris and remove from site.

3.3 The Contractor shall clean paint smears and drops from floors, finishing hardware, metal surfaces, fittings and equipment, glass mirrors and adjoining surfaces.

3.4 The Contractor shall clean plaster droppings and vacuum all dust immediately after sanding is complete.

3.5 The Contractor shall prevent sanding dust from spreading to areas outside the immediate work area. Surrounding areas, furniture and equipment shall be protected from dust and paint.

3.6 All cleaning shall be inspected and approved by a representative of the University.

4. WORK ORDERS

4.1 Each item of work shall be requested on a Work Order issued by the Manager, Environmental Services or designate describing the scope of work. If further information is required by the Contractor regarding any Work Order, he/she should contact the office of the Manager, Environmental Services, Department of Facilities Management (864-3002).

4.2 If the Contractor should become aware of any apparent error or omission within the Scope of Work described, he/she shall request clarification from the Manager, Environmental Services.

5. MATERIALS GENERAL

5.1 All materials shall conform to all applicable codes, by-laws, or other relevant standards and as detailed in Appendix “D”, Technical Specifications, Part “A”, Interior & Part “B” Exterior.

5.2 Materials shall mean only expendable items used to perform the work described on respective Work Orders issued by the Manager, Environmental Services or designate and not items such as specialty tools, scaffolding swing stage, hoisting equipment, etc. and other items not listed in the specifications.

5.3 Non-expendable items shall be charged at the Contractor’s cost plus 10% mark-up plus

10% profit. This mark-up shall cover all pick-up and delivery charges, administration costs and other related costs. The Contractor must supply a copy of the supplier's invoice for all items in excess of $1000 plus H.S.T. Such invoices must accompany the Contractor's invoice to the University. The University reserves the right to request copies of all suppliers' invoices.

5.4 The Contractor shall use only products approved by the University. Products standard shall be that as manufactured by Standard Manufacturing Co. Ltd. Any use of alternate products must be approved by the University.

5.5 The Contractor will be responsible for the compatibility between paints and surfaces. The existing paint finishes shall be identified before new paint is applied. Paint shall be applied in accordance with the applications formulas for interior and exterior paint finishes as set out in Technical Specifications, Part "A", Interior & Part "B" Exterior.

6. WORK FORCE

6.1 Prior to commencing, when reporting for work at the building, the Contractor shall report to the Manager, Environmental Services or designate.

6.2 The Contractor would not necessarily be required to carry a permanent staff on site at the University at all times but would be required to commence any work in not less than two days after being given notice. All work must be carried out continuously until completed to the satisfaction of the Manager, Environmental Services or designate.

6.3 The Contractor or his/hers employees and others working under his/hers supervision shall become familiar with the use of the location of fire extinguishers, fire hoses, fire alarms and exits in the area of the work.

6.4 The Contractor is required to have time sheets for each employee showing the number of hours worked per day. These time sheets must be signed each day by the Manager, Environmental Services or designate.

6.5 Normally the Contractor shall have personnel and equipment on site and commence work within a maximum of 2 days or 24 hours in special circumstances days after being notified by the Manager, Environmental Services or designate.

7. WORK FORCE

7.1 A regular work week shall be Monday to Friday. However, should the University deem it necessary to have work done during the weekends (Saturday or Sunday), holidays or overtime; the Contractor will be required to carry out such work at the prices quoted in "Appendix C Price Form". No extra charge will be approved.

7.2 The Contractor shall provide a Letter of Good Conduct from the Royal Newfoundland Constabulary for each Contractor's personnel designated to carry out work on University premises.

7.3 The Contractor shall not assign the Contract or any part thereof or any benefit or interest therein without the written permission of the University.

7.4 Contractors personnel, designated to carry out work on University premises must be capable of being bonded. Documentation of proof must be presented to the University, if requested, for any or all of the Contractors personnel designated to carry out work on University premises.

8. EMERGENCY CALLS

8.1 The Contractor shall respond to emergency or urgent calls from the Manager, Environmental Services or designate during or after normal working hours. When these calls request the Contractor's help for emergencies, the Contractor will be prepared to respond immediately to offer assistance as requested at the prices quoted in Appendix C Price Form".

8.2 The Contractor shall provide the Manager, Environmental Services or designate with the names of contacts and phone numbers for use in the event of emergencies requiring the Contractor's services after normal working hours.

9. SHOP TIME

Payment will only be made for time actually worked in respective buildings, except for shop time. Where the work requires shop time, i.e. book cases, shelving units, cabinets, frames, etc. the Contractor shall notify the Manager, Environmental Services as to the nature of the repairs requiring shop time and obtain prior approval before any items are removed from respective building. Repairs in a shop, other than the Contractor's shop, must be accompanied by a copy of the invoice charged to the Contractor.

10. IDENTIFICATION

10.1 All Contractors' personnel employed under this Contract shall carry identification cards at all times supplied by the University.

10.2 All Contractors' employees shall be required to display identification badges at all times when carrying out work on University premises.

11. WEARING APPAREL

The Contractor's personnel shall present a neat and clean appearance and shall be dressed in painter's overalls. Contractor's personnel working in University laboratories or similar environments must receive approval on type of dress as well as prior permission to enter these areas of work.

12. WORK ORGANIZATION

12.1 The Contractor shall report to the Manager, Environmental Services or designate before commencing any work. No payment will be made for work stated without such notification. No area of the University will be entered without permission.

12.2 Any work that may interfere with normal building operations shall be checked and coordinated with the Manager, Environmental Services or designate. Streets, sidewalks,

parking areas, etc., shall not be obstructed without the permission of the authorities having jurisdiction and the Manager, Environmental Services or designate.

12.3 The Contractor shall become familiar with University rules regarding smoking, wearing apparel, off limit areas, hard hat areas, etc., and shall strictly observe these rules. The Contractor and its personnel shall become familiar with the University's Campus Safety and Health Regulations which shall form part of this Contract.

12.4 The Contractor shall be responsible to provide and erect proper signage, wet paint signs, barricades, warning signs, detours, etc. to ensure the safety of the general public and building occupants from possible injury associated with ongoing work.

12.5 The Contractor shall provide proper signage indicating overhead work in progress and shall provide barricades or construction fencing to a distance of fifty (50) feet beyond any possible overhead hazard.

12.6 The Contractor shall erect scaffolding independent of walls and shall use scaffolding in such a manner as to interfere as little as possible with other trades. When not in use, scaffolding shall be moved as necessary to permit installation of other work. Scaffolding shall be constructed and maintained in a rigid, secure and safe manner and shall be removed promptly when no longer required. Each trade shall be held responsible to supply, install and maintain scaffolding required for execution of work of that trade.

12.7 All trades shall protect the work of other trades from damage while carrying out their work, e.g. when spray painting, cover light fixtures, fire alarms, heat detectors, grilles, diffusers, etc.

12.8 All floors, furniture, wall hangings, drapes, pictures shall be covered with suitable drop cloths.

12.9 Damaged work shall be made good by those originally performing the work and at the expense of those causing the damage.

13. STORAGE AND HANDLING OF MATERIALS

13.1 The University will provide adequate storage space in close proximity to the building or a room within the building for the use of the Contractor during the contract period. This space or room shall be kept neat and clean at all times be kept under lock and key when not in use.

13.2 The Contractor shall remove oily rags, waste and other similar combustible materials from the building every night and under no circumstances allow them to accumulate. The Contractor shall take every precaution to avoid spontaneous combustion.

14. TOOLS, EQUIPMENT AND TEST INSTRUMENTS

14.1 The Contractor shall supply all labour, materials, test instruments, tools and accessories necessary (except as otherwise instructed) for the performance of the work related to this Contract.

14.2 The Contractor shall provide all tools and equipment required for the performance of the work including ladders.

14.3 The Contractor shall ensure that all construction debris is removed and the work site is free of any potential hazard to pedestrian and/or vehicular traffic at the end of each work day.

15. GUARANTEE

The Contractor shall guarantee all materials and workmanship for a period of one (1) year from total performance of each Work Order.

16. INVOICING

16.1 The Contractor, when submitting request for payments, shall invoice the University for the actual sq. ft. painted or plastered and/or actual time spent on the job site as substantiated by the Contractors Time Sheets. The Contractor may only invoice on completion of each Work Order unless work extends beyond thirty (30) days.

16.2 The Contractor shall submit for payment invoices for completed work within ten (10) working days of approved completion of such work.

16.3 Itemized invoicing will be required for each Work Order performed and submitted immediately after the completion of the work. Discounts and trade allowances of every kind shall be deducted to show the net amount payable. Harmonized Sales Tax shall be shown separately on the invoice(s). Failure to comply with terms of invoicing could delay payment of the invoice and could be due cause for termination this Contract after notice in writing has been given.

16.4 The Contractor shall be expected to obtain the best supplier price available for any materials and pass on the price to the University. The University reserves the right to request confirmation of price charged for materials

16.4 All work shall be inspected upon completion by the Manager, Environmental Services or designate and any work found to be unsatisfactory shall be corrected at no cost to the University before payments are processed.

17. ENVIRONMENTAL IMPAIRMENT LIABILITY INSURANCES

In addition to any other insurances that the Contractor must maintain to satisfy the conditions of this contract, an Environmental Impairment Liability insurance to the value of $5,000,000 must be in place. This will cover environmental damages which could be caused, such as from the discovery/disturbance of any mold found as well as discovery/disturbance of asbestos.

TECHNICAL SPECIFICATION, PART "A" INTERIOR

SPEC NOTE: DESCRIPTION: This section specifies the application of site applied paint finishes to interior surfaces - both new as well as repainted. The finish formulae are specified by Canadian General Standards Board (CGSB) references and the Canadian Painting Contractors Association (CPCA) system designations.

SPEC NOTE: ENVIRONMENTAL: This Section specifies environmentally responsible material choices, including recycling and reuse options, and generally available disposal options. The inclusion of minimum recycled content provides for efficient use of natural resources and diverts materials from the waste stream.

PART 1 – GENERAL

1.1 References

.1 American Society for Testing and Materials (ASTM)

.1 ASTM D 3960- 93, Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings.

.2 Canadian General Standards Board (CGSB)

.1 CAN/CGSB-1.36- 97, General Purpose Interior Varnish.
.2 CAN/CGSB-1.38- M91, Interior Enamel Undercoater.
.3 CGSB 1-GP-48M- 78, Primer, Marine, for Steel.
.4 CAN/CGSB-1.57- 96, Alkyd, Interior, Semigloss, Enamel.
.5 CAN/CGSB-1.60- 97, Interior Alkyd Gloss Enamel.
.6 CAN/CGSB-1.68- M91, Solvent Type Primer-Sealer for Interior Walls.
.7 CAN/CGSB-1.73- 97, Exterior and Interior Enamel for Floors.
.8 CAN/CGSB-1.100- 95, Interior Latex Type, Flat Paint.
.9 CAN/CGSB-1.102- M89, Clear Alkyd Type Sealer.
.10 CAN/CGSB-1.118- 95, Interior Alkyd, Flat Finish.
.11 CAN/CGSB-1.119- 95, Primer-Sealer, Wall, Interior Latex Type.
.12 CAN/CGSB-1.121- 93, Vinyl Pretreatment Coating for Metals (Vinyl Wash Primer).
.13 CAN/CGSB-1.126- M91, Vinyl Sealer for Wood.
.14 CAN/CGSB-1.143- M90, Heat Resistant Aluminum Enamel, Silicone Alkyd.
.15 CAN/CGSB-1.145- 97, Solvent-Based Pigmented Stain.
.16 CAN/CGSB-1.146- 92, Cold Curing, Gloss Epoxy Coating.
.17 CAN/CGSB-1.150- M91, Clear Lacquer for Wood Furniture.
.18 CAN/CGSB-1.153- M90, High Build, Gloss, Epoxy Coating.
.19 CAN/CGSB-1.165- M89, Cold Curing Epoxy Primer.
.20 CAN/CGSB-1.175- 97, Polyurethane Interior Coating, Oil Modified, Clear, Gloss and Satin.

.21 CGSB 1-GP-180Ma- 96, Coating, Polyurethane, Two- Package, General Purpose.
.22 CAN/CGSB-1.188- 96, Emulsion Type Filler Masonry Block.
.23 CGSB 1-GP-193Ma- 83, Coating, High-Build Epoxy, Marine.
.24 CAN/CGSB-1.195- 95, Interior Semigloss Latex Paint.
.25 CAN/CGSB-1.198- 95, Cementitious Primer (for Galvanized Surfaces).
.26 CAN/CGSB-1.202- 96, Interior Low Gloss Alkyd Enamel.
.27 CAN/CGSB-1.209- 93, Low Sheen Latex Interior Paint.
.28 CGSB 85-GP-1M- 78, Painting (New) Exterior Wooden Surfaces.
.29 CGSB 85-GP-2M- 78, Painting (Maintenance) of Exterior Painted Wooden Surfaces.
.30 CGSB 85-GP-10M- 79, Shop Painting Structural Steel.
.31 CGSB 85-GP-11M- 80, Painting Steel for Protection Against Continuous Wetting.
.32 CGSB 85-GP-13M- 80, Painting Structural Steel for Protection Against Heavy Industrial Atmospheres.
.33 CGSB 85-GP-14M- 78, Painting Steel Surfaces Exposed to Normally Dry Weather.
.34 CGSB 85-GP-15M- 78, Painting, Maintenance, Exterior Steel Exposed to Normally Dry Weather.
.35 CGSB 85-GP-16M- 79, Painting Galvanized Steel.
.36 CGSB 85-GP-18M- 80, Painting, Maintenance, Exterior, Steel, for Protection Against Continuous Wetting.
.37 CGSB 85-GP-20M- 79, Painting copper and Copper Alloys.
.38 CGSB 85-GP-31M- 79, Painting Stucco, Masonry and Brick Surfaces.
.39 CGSB 85-GP-32M- 79, Painting Concrete Floors.
.40 CGSB 85-GP-33M- 79, Painting Interior Plaster and Wallboard.
.41 CAN/CGSB-85.100- 93, Painting.

.3 Canadian Painting Contractors' Association (CPCA).
.1 Painting Specifications Manual 1993.

.4 Canadian Standards Association (CSA)
.1 CSA Z760- 94, Life Cycle Assessment.

.5 Environmental Choice Program (ECP)
.1 ECP-67- 95, Recycled Water-Borne Surface Coatings.
.2 ECP-76- 98, Surface Coatings.

.6 Environmental Protection Agency (EPA)
.1 EPA-SW-846, Test Methods for Evaluating Solid Wastes.

.7 International Organization for Standardization (ISO)
.1 ISO 14040/14041- 1997, Environmental Management - Life Cycle Assessment.

.8 National Fire Code of Canada 1995.

.9 Steel Structures Painting Council (SSPC).
.1 Systems and Specifications Manual 1989

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1.2 Product Data

1. Submit full records of all products used. List each product in relation to finish formula and include the following:
   .1 Finish formula designation.
   .2 Product type and use.
   .3 CGSB number.
   .4 Manufacturer's product number.
   .5 Colour number (s).
   .6 Manufacturer's Material Safety Data Sheets (MSDS).
   .7 Maximum VOC classification.
   .8 Eco-Logo certification.

.2 Submit manufacturer's installation and application instructions for each product specified.

1.3 Samples

.1 Submit duplicate 300 x 200 mm sample panels of each paint or stain or clear coating or special finish, formula, type, colour, or texture specified as requested by the University.

.2 Submit full range of available colours where colour availability is restricted.

.3 Use 3 mm plate steel for finishes over metal surfaces. Use 12.5 mm birch plywood for finishes over wood surfaces. Use 50 mm concrete block for finishes over concrete or concrete masonry surfaces. Use 12.5 mm gypsum board]for finishes over gypsum board and other smooth surfaces.

1.4 Quality Assurance

.1 Retain purchase orders, invoices and other documents to prove that all materials utilized in this contract meet requirements of the specifications. Produce documents when requested by the University.

. Standard of Acceptance:
2 .1 Walls: No defects visible from a distance of 1000 mm at 90 degrees to surface.
   .2 Ceilings: No defects visible from floor at 45 degrees to surface when viewed using final lighting source.
   .3 Final coat to exhibit uniformity of colour and uniformity of sheen across full surface area.

1.5 Delivery,Storage and Handling

.1 Deliver and store materials in original containers, sealed, with labels intact.

.2 Indicate on containers or wrappings:
- .1 Manufacturer's name and address.
- .2 Type of paint.
- .3 Compliance with applicable standard.
- .4 Colour number in accordance with established colour schedule.

.3 Remove damaged, opened and rejected 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 a well ventilated area with temperature range 7 to 30 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 the University. After completion of operations, return areas to clean condition to approval of the University.

.10 Provide minimum one 9 kg Type ABC dry chemical fire extinguisher adjacent to storage area.

.11 Remove only in quantities required for same day use.

.12 Fire Safety Requirements:
- .1 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.
- .2 Handle, store, use and dispose of flammable and combustible materials in accordance with the National Fire Code of Canada.

.6 Environmental Requirements

SPEC NOTE: ENVIRONMENTAL: Indoor air quality problems with paints can be reduced by: specifying water-based paints and specifying paints containing no mercury, lead, hexavalent chromium or cadmium compounds

.1 Environmental Choice Program

SPEC NOTE: Current range of paint materials certified under this program is quite limited. Use caution when specifying Eco-Logo products exclusively.

.1 Provide paint products certified to meet the requirements of the Environmental Choice Program, Department of the Environment.

.2 Submit CSA Certification Reports that products proposed for use are certified under the Environmental Choice Program. Recycled water-borne surface coatings to be certified to ECP-67. All other surface coatings to be certified to ECP-76

.2 Safety: comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling storage, and disposal of hazardous materials.

.3 Ventilation:

SPEC NOTE: Use the following article to specify ventilation in occupied buildings using permanent system or by other means, as appropriate.

.1 The University will arrange for ventilation system to be operated during application of paint. Ventilate area of work as directed by the University by use of approved portable supply and exhaust fans.

.2 Provide continuous ventilation during and after application of paint. Run ventilation system 24 hours per day during installation; provide continuous ventilation for 7 days after completion of application of paint.

.4 Apply paint finishes only when temperature at location of installation can be satisfactorily maintained within manufacturer's recommendations.

.5 Substrate and ambient temperature must be within limits prescribed in paint standard and by manufacturer to approval of the University.

.6 Maintain minimum substrate and ambient air temperature of 5C for Alkyd and 7C for latex paints. Maximum relative

humidity 85%. Maintain supplemental heating until paint has cured sufficiently.

.7 Provide temporary heating where permanent facilities are not available to maintain minimum recommended temperatures.

.8 Apply paint finish only in areas where dust is no longer being generated by related construction operations such that airborne particles will not affect the quality of the finished surface.

.9 Apply paint only when surface to be painted is dry, properly cured and adequately prepared.

.10 Painting in occupied facilities to be carried out during silent hours only. Schedule operations to approval of the University such that painted surfaces will have dried and cured sufficiently before occupants are affected.

.11 Provide minimum 270 lx on surfaces to be painted.

1.7 Scheduling

.1 Submit work schedule for various stages of painting to the University for approval. Submit schedule minimum of 48 hours in advance of proposed operations.

.2 Obtain written authorization from the University for any changes in work schedule.

.3 Schedule painting operations to prevent disruption of occupants in and about the building.

1.8 Extra Materials

.1 Submit one(1) – four(4) litre can of each type and colour of finish coating. Identify colour and paint type in relation to established colour schedule and finish formula.

.2 Deliver to the University and store where directed.

1.9 Waste Management

.1 Place materials defined as hazardous or toxic waste, including used sealant and adhesive tubes and containers, in containers or areas designated for hazardous waste.

.2 Return solvent and oil soaked rags for contaminant recovery and laundering or for proper disposal.

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

.4 Do not dispose of paints or solvents by pouring on the ground. Place in designated containers and ensure proper disposal.

.5 Solvent based paints, wood preservatives, stains and finishes which cannot be reused must be treated as hazardous waste and disposed of in an appropriate manner in accordance with hazardous waste regulations. Empty paint cans are to be dry prior to disposal or recycling (where available).

.6 Where paint recycling is available, collect all waste paint by type and provide for delivery to recycling or collection facility.

.7 Paints, stains, and finishes are regarded as hazardous products and are subject to regulations for disposal. Information on these controls can be obtained from the Minister of Environment.

PART 2 - PRODUCTS

2.1 Materials

SPEC NOTE: ENVIRONMENTAL: When selecting paints, solvent free paints are preferable to water-based (latex) paints. Low-toxicity water-based latex paints are considered safer than conventional latex paint. When these options are not practical, solvent based paints with low VOC content should be specified. Higher grade paints should be chosen only when necessary. Select naturally formulated shellacs and varnishes instead of those containing high VOCs.

.1 Qualified products: only paint materials listed on the CGSB Qualified Products List are acceptable for use on this project.

SPEC NOTE: Use the following paragraph only when CPCA Specification manual is used for specifying painting operations.

.2 Qualified products: only paint materials listed on the CPCA Approved Product Lists are acceptable for use on this project.

SPEC NOTE: Current range of Eco-Logo approved products is quite restrictive and does not cover many basic paint products.

.3 Qualified products: only paint materials listed as Eco-Logo Approved Products are acceptable for use on this project.

.4 Paint materials for each coating formula to be products of a single manufacturer.

.5 Low odour products: Whenever possible, select products exhibiting low odour characteristics. If two products are otherwise equivalent, select the product with the lowest odour.

.6 Paints, coatings, adhesives, solvents, cleaners, lubricants, and other fluids, shall possess the following characteristics: water-based, water soluble, water clean-up, non-flammable , biodegradable , low Volatile Organic Compound (VOC) content, manufactured without compounds which contribute to ozone depletion in the upper atmosphere, manufactured without compounds which contribute to smog in the lower atmosphere, do not contain methylene chloride, and do not contain chlorinated hydrocarbons

.7 Water-borne surface coatings must:

.1 Meet or exceed all applicable governmental and/or industrial safety and performance standards.

SPEC NOTE: In Canada, standards for surface coatings are published by the Canadian General Standards Board (CGSB) and the Bureau de normalisation du Quebec (BNQ). Acceptable test methods are available from ASTM and CGSB.

.2 Manufactured and transported in such a manner that all steps of the process, including the disposal of waste products arising therefrom, will meet the requirements of all applicable governmental acts, by-laws and regulations including, for facilities located in Canada, the Fisheries Act, the Canadian Environmental Protection Act (CEPA) and the Environmental Protection Act (Newfoundland).

.8 Water-borne surface coatings must not be formulated or manufactured with: aromatic solvents, formaldehyde, halogenated solvents, mercury, lead, cadmium, hexavelant chromium or their compounds.

.9 Water-borne surface coatings and recycled water-borne surface coatings must have a flash point of 61.0 C or greater.

.10 Both water-borne surface coatings and recycled water-borne surface coatings must be made by a process that does not release.

.1 Matter in the undiluted production plant effluent generating a 'Biochemical Oxygen Demand' (BOD) in excess of 15 mg/L to a natural watercourse or a sewage treatment facility lacking secondary treatment.

.2 Total Suspended Solids (TSS) in the undiluted production plant effluent in excess of 15 mg/L to a natural watercourse or a sewage treatment facility lacking secondary treatment.

.11 Water-borne surface coatings and recycled water-borne surface coatings must contain information describing proper disposal methods within their packaging.

SPEC NOTE: ENVIRONMENTAL: The calculation of VOCs shall exclude water and exclude tinting colorant added at the point of sale, where applicable.

.12 Water-borne paints and stains and recycled water-borne surface coatings must not contain VOCs in excess of 250 g/L as determined by ASTM D 3960.

.13 Water-borne varnishes must not contain VOCs in excess of 300 g/L.

.14 Recycled water-borne surface coatings must contain 50 % post-consumer material by volume.

.15 Recycled water-borne surface coatings must not contain:

.1 Lead in excess of 600.0 ppm weight/weight total solids.

.2 Mercury in excess of 50.0 ppm weight/weight total product.

.3 Cadmium in excess of 1.0 ppm weight/weight total product.

.4 Hexavelant chromium in excess of 3.0 ppm weight/weight total product.

.5 Organochlorines or polychlorinated biphenyls (PCBS) in excess of 1.0 ppm weight/weight total product.

.16 The following must be performed on each batch of consolidated post-consumer material before the surface coating is reformulated and canned. These tests must be performed at a laboratory or facility which has been accredited by the Standards Council of Canada.

.1 Lead, cadmium and chromium are to be determined using ICP-AES (Inductively Coupled Plasma - Atomic Emission Spectroscopy) technique no. 6010 as defined in EPA SW-846.

.2 Mercury is to be determined by Cold Vapour Atomic Absorption Spectroscopy using Technique no. 7471 as defined in EPA SW-846.

.3 Organochlorines and PCBs are to be determined by Gas Chromatography using Technique no. 8081 as defined in EPA SW-846

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SPEC NOTE: ENVIRONMENTAL: When specifying alkyd paints, ensure that exterior or industrial paints are not applied indoors.
They may contain heavy metals.

SPEC NOTE: ENVIRONMENTAL: When protecting wood surfaces with oil finishes, avoid products containing tung oil; it is a suspected immune suppressant.

SPEC NOTE: ENVIRONMENTAL: Specify the least toxic sealants, adhesives, sealers, and finishes necessary to comply with the requirements of this section. Water-based acrylic sealers are a preferable alternative to silicone which emits toxic vapours during installation.

.17 The manufacturing process must adhere to Lifecycle Assessment Standards as per ISO 14040/1404 and/or CSA Z760-94.

2.2 Colours

.1 The University will provide Colour Schedule after contract award proposed Colour Schedule to for approval.

.2 Colour schedule will be based upon the selection of five base colours and three accent colours. No more than eight colours will be selected for the entire project and no more than three colours will be selected in each area.

.3 Selection of colours will be from manufacturers full range of colours.

.4 Where specific products are available in a restricted range of colours, selection will be based on the limited range.

.5 Perform all colour tinting operations prior to delivery of paint to site. On-site tinting of painting materials allowed only with the University's written permission.

.6 Second coat in a three coat system to be tinted slightly lighter colour than top coat to show visible difference between coats.

2.3 Paint Finishes

SPEC NOTE: The following finish formulae are based on premium systems consisting typically of three coats (one primer and two finish coats). If custom systems are desired (one primer and one finish coat), delete one finish coat.

SPEC NOTE: The following finish formulae are prepared assuming new construction. Most of the formulae would be also applicable for use on repainting projects except where repainting over unknown or specialized coatings. Exercise care when selecting new coatings over specialty finishes to avoid incompatible reactions.

SPEC NOTE: For repainting projects it may be possible to specify custom systems using spot priming and two new finish coats.
Depending on the amount of surface preparation required, it may be necessary for the application of a full, complete primer coat plus two finish coats.

SPEC NOTE: Specify finish formulae by CGSB references or by using the CPCA System designations, not both.

SPEC NOTE: If different gloss levels are specified for walls and ceilings or if different gloss levels are desired on walls or ceilings in different locations, repeat formulae as necessary. Ensure gloss level for each area is indicated in Finish Schedule or on Drawings.

SPEC NOTE: For deep colours or high contrast accent colours, include a third finish coat. It is not possible to apply semigloss or high gloss paints in deep colours in less than 3 finish coats and expect satisfactory results. Where repainting over deep colours a minimum of 3 finish coats is recommended.

.1 Formula 1 (Alkyd): for concrete, brick masonry and/or stucco walls and ceilings apply:
.1 one coat latex primer-sealer CAN/CGSB-1.119.
.2 two coats flat finish CAN/CGSB-1.118, or two coats low gloss enamel CAN/CGSB-1.202, or two coats semigloss enamel CAN/CGSB-1.57, or two coats gloss enamel CAN/CGSB-1.60.
.3 CPCA System INT-7-B, premium, custom Finish coat: flat, low gloss, semigloss, gloss.

.2 Formula 2 (Alkyd): for concrete block [and concrete brick] walls apply:
.1 one coat latex block filler CAN/CGSB-1.188.

.2 two coats flat finish CAN/CGSB-1.118, or two coats low gloss enamel CAN/CGSB-1.202, two coats semigloss enamel CAN/CGSB-1.57, or two coats gloss enamel CAN/CGSB-1.60.

.3 CPCA System INT-8-B, premium. Finish coat: flat, low gloss, semigloss or gloss.

.3 Formula 3 (Alkyd): for gypsum board, plaster, hardboard, or composition board walls apply:

.1 one coat latex primer-sealer CAN/CGSB-1.119.

.2 two coats flat finish CAN/CGSB-1.118, or two coats low gloss enamel CAN/CGSB-1.202, or two coats semigloss enamel CAN/CGSB-1.57, or two coats gloss enamel CAN/CGSB-1.60.]

.3 CPCA System INT-4-A, premium or custom. Finish coat,: flat, low gloss, semigloss or gloss.

.4 Formula 4 (Alkyd): for gypsum board, plaster, hardboard or composition board ceilings apply:

.1 one coat latex primer-sealer CAN/CGSB-1.119.

.2 two coats flat finish CAN/CGSB-1.118, or two coats low gloss enamel CAN/CGSB-1.202.

.3 CPCA System INT-4-A, premium or custom. Finish coat: flat or low gloss.

.5 Formula 5 (Latex): for concrete, masonry and stucco walls and ceilings apply:

.1 one coat latex primer-sealer CAN/CGSB-1.119.

.2 two coats flat finish CAN/CGSB-1.100, or two coats low gloss enamel CAN/CGSB-1.209, or two coats semigloss enamel CAN/CGSB-1.195, or two coats high gloss acrylic.

.3 CPCA System INT-7-A, premium or custom. Finish coat: flat, low gloss, semigloss, or gloss.

.6 Formula 6 (Latex): for concrete block and concrete brick walls apply:

.1 one coat latex block filler CAN/CGSB-1.188.

.2 two coats flat finish CAN/CGSB-1.100, or two coats low gloss enamel CAN/CGSB-1.209, or two coats semigloss enamel CAN/CGSB-1.195, or two coats high gloss acrylic.

.3 CPCA System INT-8-A, premium or custom. Finish coat:, flat, low gloss, semigloss, or gloss.

.7 Formula 7 (Latex): for gypsum board, plaster, hardboard or composition board walls apply:

.1 one coat latex primer-sealer CAN/CGSB-1.119.
.2 two coats flat finish CAN/CGSB-1.100, or two coats low gloss enamel CAN/CGSB-1.209, or two coats semigloss enamel CAN/CGSB-1.195, or two coats high gloss acrylic.
.3 CPCA System INT-4-B, premium or custom]. Finish coat: flat, low gloss, semigloss, or gloss.

.8 Formula 8 (Latex): for gypsum board, plaster, hardboard or composition board ceilings apply:
.1 one coat latex primer-sealer CAN/CGSB-1.119.
.2 two coats flat finish CAN/CGSB-1.100 or two coats low gloss enamel CAN/CGSB-1.209.
.3 CPCA System INT-4-B, premium or custom. Finish coat: flat], low gloss, semigloss or gloss.

.9 Formula 9 (Latex): for acoustic tile and textured ceilings apply:

.1 two coats latex flat CAN/CGSB-1.100.
.2 two coats alkyd flat finish CAN/CGSB-1.118.
.3 one coat solvent primer-sealer CAN/CGSB-1.68. one coat semigloss enamel CAN/CGSB-1.195 or one coat high gloss acrylic.

.10 Formula 10 (Alkyd): for wood baseboards, trim, doors, frames, window frames, window sash, panelling, plywood or cabinetry to receive paint finish apply:
.1 spot prime knots and resinous areas CAN/CGSB-1.126.
.2 one coat enamel undercoat CAN/CGSB-1.38.
.3 two coats flat finish CAN/CGSB-1.118, or two coats low gloss enamel CAN/CGSB-1.202, or two coats semigloss enamel CAN/CGSB-1.57, or two coats gloss enamel CAN/CGSB-1.60.
.4 CPCA System INT-1-A, premium or custom. Finish coat: flat, low gloss, semigloss or gloss.

SPEC NOTE: Do not specify latex formula on wood surfaces in wet areas (kitchen or baths) or areas exposed to the exterior (window frames or sills).

.11 Formula 11 (Latex): for wood baseboards, trim, interior doors interior frames panelling cabinetry plywood to receive paint finish apply:
.1 spot prime knots and resinous areas CAN/CGSB-

1.126.

.2 one coat enamel undercoat CAN/CGSB-1.38.

.3 two coats flat paint CAN/CGSB-1.100, or two coats low gloss enamel CAN/CGSB-1.209, or two coats semigloss enamel CAN/CGSB-1.195, or two coats high gloss acrylic.

.4 CPCA System INT-1-B, premium or custom. Finish coat: flat, low, gloss, semigloss or gloss .

.12 Formula 12 (alkyd): for concrete floors apply:

.1 one coat floor enamel CAN/CGSB-1.73. Reduced.

.2 two coats floor enamel CAN/CGSB-1.73.

.3 CPCA System INT-9-B, premium.

.13 Formula 13 (Epoxy): for concrete floors apply:

.1 one coat cold cured gloss epoxy CAN/CGSB-1.146. Reduced.

.2 two coats cold cured gloss epoxy CAN/CGSB-1.146.

.3 CPCA System INT-9-A, premium or custom.

.14 Formula 14 (Polyurethane): for concrete floors apply.

.1 one coat two-component polyurethane CGSB1-GP-180Ma (Type 2). Reduced.

.2 two coats two-component polyurethane CGSB1-GP- 180Ma (Type 2). Reduced.

.3 CPCA System INT-9-C, premium.

SPEC NOTE: Re the following two paragraphs . Review selection of "Shop" applied primers specified in other sections to ensure compatibility with finish coatings specified herein.

.15 Formula 15 (Alkyd): for shop primed ferrous metal surfaces apply:

.1 touch up shop primer with primer as provided by fabricator.

.2 one coat marine alkyd metal primer CGSB1-GP-48M.

.3 two coats flat finish CAN/CGSB-1.118 or two coats low gloss enamel CAN/CGSB-1.202, or two coats semigloss enamel CAN/CGSB-1.57, or two coats gloss enamel CAN/CGSB-1.60.

.4 CPCA System INT-12-A, premium or custom. Finish coat: flat, low gloss, semigloss or gloss.

.16 Formula 16 (Epoxy): for shop primed ferrous metal surfaces apply:

.1 touch up shop primer with primer as provided by

fabricator.

.2 one coat cold cured epoxy primer CAN/CGSB-1.165 (Type 1).

.3 two coats cold cured gloss epoxy CAN/CGSB-1.146, or two coats high build gloss epoxy CAN/CGSB-1.153, or two coats high build marine epoxy CGSB1-GP-193Ma.

.4 CPCA System INT-12-D, premium, custom .

.17 Formula 17 (Alkyd): for galvanized and zinc coated metal apply:

.1 one coat cementitious primer CAN/CGSB-1.198.

.2 two coats flat finish CAN/CGSB-1.118, or two coats low gloss enamel CAN/CGSB-1.202, or two coats semigloss enamel CAN/CGSB-1.57, or [two coats gloss enamel CAN/CGSB-1.60.

.3 CPCA System INT-13-A, premium or custom. Finish coat: flat or low gloss or semigloss or gloss.

.18 Formula 18 (Alkyd): for galvanized metal deck (ceilings) apply:

.1 one coat cementitious primer CAN/CGSB-1.198.

.2 two coats flat finish CAN/CGSB-1.118, or two coats low gloss enamel CAN/CGSB-1.202.

.3 CPCA System INT-13-A, premium or custom. Finish coat: flat or low gloss.

.19 Formula 19 (Latex): for galvanized and zinc coated metal apply:

.1 one coat cementitious primer CAN/CGSB-1.198.

.2 two coats flat paint CAN/CGSB-1.100, or two coats low gloss enamel CAN/CGSB-1.209, or two coats semigloss enamel CAN/CGSB-1.195, or two coats high gloss acrylic.

.3 CPCA System INT-13-D, premium or custom. Finish coat: flat or low gloss or semigloss or gloss.

.20 Formula 20 (Latex): for galvanized metal deck (ceilings) apply:

.1 one coat cementitious primer CAN/CGSB-1.198.

.2 two coats flat paint CAN/CGSB-1.100 or two coats low gloss enamel CAN/CGSB-1.209.

.3 CPCA System INT-13-D, premium or custom. Finish coat: flat or low gloss.

.21 Formula 21 (Alkyd): for copper piping and fittings apply:

.1 one coat vinyl wash primer CAN/CGSB-1.121.

.2 two coats flat finish CAN/CGSB-1.118, or two coats low gloss enamel CAN/CGSB-1.202, or two coats semigloss enamel CAN/CGSB-1.57, or two coats gloss enamel CAN/CGSB-1.60.

.3 CPCA System INT-16-A, premium or custom. Finish coat: flat, low gloss, semigloss, or gloss.

.22 Formula 22 (Alkyd): for cotton or canvas insulation coverings apply:

.1 one coat latex primer-sealer CAN/CGSB-1.119.

.2 two coats flat finish CAN/CGSB-1.118, or two coats low gloss enamel CAN/CGSB-1.202, or two coats semigloss enamel CAN/CGSB-1.57, or two coats gloss enamel CAN/CGSB-1.60.

.3 CPCA System INT-5-A, premium or custom. Finish coat: flat, low gloss, semigloss or gloss.

2.4 Stain Finishes

SPEC NOTE: Delete application of wood filler if wooden substrate is tight grained.

.1 Formula 23: for woodwork to receive stained finish apply:

.1 one coat wood filler

.2 two coats solvent based stain CAN/CGSB-1.145. Type 2 (interior) Class A Solid or Class B Semi transparent.

.3 CPCA System INT-1-O, custom. semi-transparent or solid colour.

.2 Formula 24: for woodwork to receive oil resin sealer finish apply:

.1 one coat wood filler.

.2 one coat Danish Oil, wiped.

.3 one coat Danish Oil, buffed.

.4 wax and buff.

.5 CPCA System INT-1-N, premium.

2.5 Clear Finishes

SPEC NOTE: Delete references to application of stain coat if natural appearance of substrate is desired. Delete application of wood filler if wooden substrate is tight grained.

.1 Formula 25 (Varnish): for woodwork to receive stained or clear finish apply:

.1 one coat wood filler.

.2 one coat solvent based stain CAN/CGSB-1.145. Type 2 (interior) or Class A solid][Class B semi transparent.

.3 one coat alkyd sanding sealer CAN/CGSB-1.102.

.4 two coats varnish CAN/CGSB-1.36. Type 2 semigloss or Type 1 - gloss.
.5 CPCA System INT-1-C, premium or custom. Semigloss or gloss.

.2 Formula 26 (Polyurethane): for woodwork to receive [stained] [clear] finish apply:
.1 one coat wood filler.
.2 one coat solvent based stain CAN/CGSB-1.145. Type 2 (interior) Class A solid or Class B semi transparent].
.3 one coat oil modified clear polyurethane CAN/CGSB-
1.175 Type 2 satin or [Type 1 gloss thinned.
.4 two coats oil modified clear polyurethane CAN/CGSB-
1.175 Type 2 satin or Type 1 gloss.
.5 CPCA System INT-1-D, premium or custom, satin or gloss.

.3 Formula 27 (Polyurethane): for wood [floors] to receive [stained] [clear] finish apply:
.1 one coat wood filler.
.2 one coat solvent based stain CAN/CGSB-1.145. Type 2 (interior) Class A solid or Class B semi transparent.
.3 three coats, two-component polyurethane CGSB1-GP-180Ma, Type 1 clear gloss.

.4 Formula 28 (Lacquer): for woodwork to receive natural finish apply:
.1 one coat wood filler.
.2 one coat solvent based stain CAN/CGSB-1.145. Type 2 (interior) Class A solid or Class B semi transparent].
.3 one coat lacquer sanding seal.
.4 two coats lacquer CAN/CGSB-1.150 Type I Class B satin or Class A gloss.
.5 CPCA System INT-1-E, premium or custom](with stain) or INT-1-F, premium or custom(clear). Finish coat: satin or gloss.

2.6 Special Finishes

SPEC NOTE: Many specialty paint finishes exist for application in corrosive or industrial environments. As surface preparation and application instructions vary widely from one manufacturer to another, select specific products and specify application in accordance with manufacturer's recommendations. For detailed specifications on these finishes and their application refer to SSPC Painting System Specifications.

.1 Formula 29: for metal surfaces exposed to heat medium temperature range to 425C apply:
  .1 two coats aluminum enamel to CAN/CGSB-1.143.
  .2 CPCA System: EXT-14-A, premium or custom.

.2 Formula 30 (Chlorinated Rubber): for surfaces exposed to Moderate or Heavy Duty corrosive environments apply:
  .1 one coat chlorinated rubber primer.
  .2 two coats chlorinated rubber enamel.

PART 3 - EXECUTION

3.1 General

.1 Perform all painting operations in accordance with CAN/CGSB-85.100 except where specified otherwise.

.2 Perform all painting operations in accordance with CPCA Painting Specifications Manual except where specified otherwise.

.3 Apply all paint materials in accordance with paint manufacturer's written application instructions.

3.2 Preparation

.1 Remove electrical cover plates, light fixtures, surface hardware on doors, door stops, bath accessories and all other surface mounted fittings and fastenings prior to undertaking any painting operations. Store for re-installation after painting is completed.

SPEC NOTE: For repainting projects, establish specific responsibilities for care of portable building finishings and accessories.

.2 Move and cover furniture and portable equipment as necessary to carry out painting operations. Replace as painting operations progress.

.3 As painting operations progress, place "WET PAINT" signs in occupied areas to approval of the University.

3.3 Protection

.1 Protect existing building surfaces not to be painted from paint spatters, markings and other damage. If damaged,

clean and restore such surfaces as directed by the University.

.2 Cover or mask floors, windows and other ornamental hardware adjacent to areas being painted to prevent damage and to protect from paint drops and splatters. Use non-staining coverings.

.3 Protect items that are permanently attached such as Fire Labels on doors and frames.

.4 Protect factory finished products and equipment.

.5 Protect passing pedestrians, building occupants and the general public in and about the building.

3.4 Existing Conditions

.1 Investigate existing substrates for problems related to proper and complete preparation of surfaces to be painted. Report to the University all damage, defects, unsatisfactory or unfavourable conditions before proceeding with work.

.2 Investigate moisture content of surfaces to be painted and report findings to the University. Do not proceed with work until conditions fall within acceptable range as recommended by manufacturer.

.3 Maximum moisture content as follows:
.1 Plaster and wallboard: 12%.
.2 Masonry/Concrete: 12%.
.3 Concrete Block/Brick: 12%.
.4 Wood: 15%.

3.5 Cleaning

.1 Clean all surfaces to be painted as follows:
.1 Remove all dust, dirt, and other surface debris by vacuuming, wiping with dry, clean cloths or compressed air
.2 Wash surfaces with solution of T.S.P. bleach and clean warm water using a stiff bristle brush to remove dirt, oil and other surface contaminants.
.3 Rinse scrubbed surfaces with clean water until foreign matter is flushed from surface.
.4 Allow surfaces to drain completely and allow to dry thoroughly.
.5 To prepare surfaces for water-based painting, water- based cleaners should be used in place of organic solvents.
.6 Use trigger operated spray nozzles for water hoses.

.7 Many water-based paints cannot be removed with water once dried. However, minimize the use of kerosene or any such organic solvents to clean up water-based paints.

SPEC NOTE: Use water blasting only when necessary for extreme cases of contamination by oily residue and where hand washing is impractical.

.2 Clean surfaces with high pressure water washing as directed by the University.

.3 Prevent contamination of cleaned surfaces by salts, acids, alkalis, other corrosive chemicals, grease, oil and solvents before prime coat is applied and between applications of remaining coats. Apply primer, paint, or pretreatment as soon as possible after cleaning and before deterioration occurs.

.4 Sand existing surfaces with intact, smooth, high gloss coatings to provide adequate adhesion for new finishes.

3.6 Surface Preparation

.1 Prepare new wood surfaces to CGSB 85-GP-1M.

.2 Where possible, prime all surfaces of new wood surfaces before installation. Use same primers as specified for exposed surfaces.

.3 Prepare previously painted wood surfaces to CGSB 85-GP- 2M.

.1 Apply vinyl sealer to CAN/CGSB-1.126 over knots, pitch, sap and resinous areas.

.2 Apply wood filler to nail holes and cracks.

.3 Tint filler to match stains for stained woodwork.

.4 Prepare stucco, brick, concrete masonry and concrete surfaces to CGSB 85-GP-31M.

.5 Prepare concrete floors to CGSB 85-GP-32M. Prepare new concrete floor by acid etching. Rinse with clean water and thoroughly dry.

.6 Prepare plaster and wallboard surfaces to CGSB 85-GP- 33M.

3.7 Surface Preparation Metal

SPEC NOTE: Select degree of surface preparation required based on in-service conditions. Generally, specify more intensive cleaning (SP6 or 7) in more aggressive environments.

.1 Clean new metal surfaces to be painted by: removing rust, loose mill scale, welding slag, dirt, oil, grease and other foreign substances in accordance with the following:
- .1 Solvent cleaning: SSPC-SP-1.
- .2 Hand tool cleaning: SSPC-SP-2.
- .3 Power tool cleaning: SSPC-SP-3.
- .4 Commercial blast cleaning: SSPC-SP-6.
- .5 Brush-off blast cleaning: SSPC-SP-7.

.2 Clean existing metal surfaces to be repainted by: removing loose, cracked, brittle or non-adherent paint, rust, loose mill scale, welding slag, dirt, oil, grease and other foreign substances in accordance with following:
- .1 Scrape edges of old paint back to sound material. Where remaining paint is thick and sound, feather exposed edges.
- .2 Commercial blast clean rusted and bare metal surfaces where existing paint system has failed.
- .3 Solvent cleaning: SSPC-SP-1.
- .4 Hand tool cleaning: SSPC-SP-2.
- .5 Power tool cleaning: SSPC-SP-3.
- .6 Commercial blast cleaning: SSPC-SP-6.
- .7 Brush-off blast cleaning: SSPC-SP-7.

.3 Remove traces of blast products from surfaces, pockets and corners to be painted by brushing with clean brushes, blowing with clean dry compressed air or vacuum cleaning.

.4 Touch up shop primer to CGSB 85-GP-10M with primer as specified in applicable section. Touch-up to include cleaning and painting of field connections, welds, rivets, nuts, washers, bolts, and damaged or defective paint and rusted areas.

.5 Prepare galvanized steel and zinc coated steel surfaces to CGSB 85-GP-16M.

.6 Prepare copper and copper alloys surfaces to CGSB 85-GP- 20M.

.7 Prepare new steel surfaces exposed normally to dry conditions to CGSB 85-GP-14M.

.8 Prepare previously painted steel surfaces exposed normally to dry conditions to CGSB 85-GP-15M.

.9 Prepare steel surfaces exposed to industrial environments to CGSB 85-GP-13M.

.10 Prepare steel surfaces exposed to water or high humidity levels to CGSB 85-GP-11M or CGSB 85-GP-18M.

.11 Do not apply paint until prepared surfaces have been accepted by the University.

3.8 Mixing Paint

.1 Mix ingredients in container before and during use and ensure breaking up of lumps, complete dispersion of settled pigment, and uniform composition.

.2 Thin paint for spraying according to manufacturer's instructions. If directions are not on container, obtain instructions in writing from manufacturer and provide copy of instructions to the University.

.3 Do not use kerosene or any such organic solvents to thin water-based paints.

3.9 Application

.1 Method of application to be as approved by the University. Apply paint by brush, roller, air sprayer or airless sprayer. Conform to manufacturer's application instructions unless specified otherwise.

.2 Brush application.

.1 Work paint into cracks, crevices and corners. Paint surfaces not accessible to brushes by spray, daubers or sheepskins.

.2 Brush out runs and sags.

.3 Remove runs, sags and brush marks from finished work and repaint.

.3 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.

.4 Brush out immediately all runs and sags.

.5 Use brushes to work paint into cracks, crevices and places which are not adequately painted by spray.

.4 Use dipping, sheepskins or daubers only when no other method is practical in places of difficult access and only when specifically authorized by the University.

.5 Apply each coat of paint as a continuous film of uniform thickness. Repaint thin spots or bare areas before next coat of paint is applied.

.6 Allow surfaces to dry and properly cure after cleaning and between subsequent coats for minimum time period as recommended by manufacturer.

.7 Sand and dust between each coat to remove visible defects.

.8 Finish tops of cupboards, cabinets and projecting ledges, both above and below sight lines as specified for surrounding surfaces.

SPEC NOTE: Use the following paragraph only if cupboards and cabinets are site built or require a finished interior.

.9 Finish inside of cupboards and cabinets as specified for outside surfaces.

.10 Finish closets and alcoves as specified for adjoining rooms.

.11 Finish top, bottom, edges and cutouts of doors after fitting as specified for door surfaces.

3.10 Mechanical Electrical Equipment

.1 In finished areas: paint exposed conduits, piping, hangers, ductwork and other mechanical and electrical equipment. Colour and texture to match adjacent surfaces, except as noted otherwise.

.2 In boiler room, mechanical and electrical rooms: paint

exposed conduits, piping, hangers, ductwork and other mechanical and electrical equipment.

.3 In other unfinished areas: leave exposed conduits, piping, hangers, ductwork and other mechanical and electrical equipment in original finish and touch up scratches and marks.

.4 Touch up scratches and marks on factory painted finishes and equipment with paint as supplied by manufacturer of equipment.

.5 Do not paint over nameplates.

.6 Keep sprinkler heads free of paint.

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3.11 Field Quality Control

.1 Field inspection of painting operations to be carried out be independent inspection firm as designated by the University.

.2 Advise the University when each applied coating is ready for inspection. Do not proceed with subsequent coats until previous coat has been approved.

.3 Co-operate with inspection firm and provide access to all areas of the work.

3.12 Restoration

.1 Clean and re-install all hardware items that were 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 the University. Avoid scuffing newly applied paint.

.5 Restore areas used for storage, cleaning, mixing and handling of paint to clean condition as approved by the University.

SPEC NOTE: DESCRIPTION: This section specifies the application of site applied paint finishes to EXTERIOR surfaces - both new as well as repainting. It includes site painting of items that are "SHOP" primed. The finish formulae are specified by Canadian General Standards Board (CGSB) references and the Canadian Painting Contractors Association (CPCA) system designations.

SPEC NOTE: ENVIRONMENTAL: This section specifies environmentally responsible material choices, including recycling and reuse options, and generally available disposal options. The inclusion of minimum recycled content provides for efficient use of natural resources and diverts materials from the waste stream.

PART 1 - GENERAL

1.1 References

SPEC NOTE: Edit the following paragraph to suit standards specified in project specifications.

.1 Canadian General Standards Board (CGSB).

.1 CAN/CGSB-1.28- M89, Alkyd, Exterior House Paint.

.2 CAN/CGSB-1.40- M89, Primer, Structural Steel, Oil Alkyd Type.

.3 CGSB1-GP-48M- 78, Primer, Marine, for Steel.

.4 CAN/CGSB-1.59- M89, Alkyd, Exterior Gloss Enamel.

.5 CGSB 1-GP-61Ma- 85, Enamel, Alkyd, Marine, Exterior and Interior.

.6 CAN/CGSB-1.69- M89, Aluminum Paint.

.7 CAN/CGSB-1.99- 92, Exterior and Marine Phenolic Resin Varnish.

.8 CAN/CGSB-1.121- 93, Vinyl Pretreatment Coating for Metals (Vinyl Wash Primer).

.9 CAN/CGSB-1.126- M91, Vinyl Sealer for Wood.

.10 CAN/CGSB-1.132- M90, Zinc Chromate Primer, Low Moisture Sensitivity.

.11 CAN/CGSB-1.135- M91, Flat Alkyd Enamel for Equipment.

.12 CAN/CGSB-1.138- 93, Exterior Latex Type, Flat Paint.

.13 CAN/CGSB-1.143- M90, Heat Resistant Aluminum Enamel, Silicone Alkyd.

.14 CAN/CGSB-1.145- M90, Solvent-Based Pigmented Stain.

.15 CAN/CGSB-1.146- 92, Cold Curing, Glass Epoxy Coating.
.16 CAN/CGSB-1.153- M90, High Build, Gloss, Epoxy Coating.
.17 CAN/CGSB-1.162- M90, Stucco and Masonry Coating, Emulsion Type.
.18 CAN/CGSB-1.165- M89, Cold Curing Epoxy Primer.
.19 CGSB 1-GP-180Ma- 82, Coating, Polyurethane, Two- Package, General Purpose.
.20 CAN/CGSB-1.188- M90, Emulsion Type Filler Masonry Block.
.21 CGSB 1-GP-189M- 78, Primer, Alkyd, Wood, Exterior.
.22 CAN/CGSB-1.198- 92, Cementitious Primer (for Galvanized Surfaces.
.23 CGSB 85-GP-1M- 78, Painting (New) Exterior Wooden Surfaces.
.24 CGSB 85-GP-2M- 78 , Painting (Maintenance) of Exterior Painted Wooden Surfaces.
.25 CGSB 85-GP-10M- 79, Shop Painting Structural Steel.
.26 CGSB 85-GP-11M- 80, Painting Steel for Protection Against Continuous Wetting.
.27 CGSB 85-GP-13M- 80, Painting Structural Steel for Protection Against Heavy Industrial Atmospheres.
.28 CGSB 85-GP-14M- 78, Painting Steel Surfaces Exposed to Normally Dry Weather.
.29 CGSB 85-GP-15M- 78, Painting, Maintenance, Exterior Steel Exposed to Normally Dry Weather.
.30 CGSB 85-GP-16M- 79, Painting Galvanized Steel.
.31 CGSB 85-GP-18M- 80, Painting, Maintenance, Exterior, Steel, for Protection Against Continuous Wetting.
.32 CGSB 85-GP-31M- 79, Painting Stucco, Masonry and Brick Surfaces.
.33 CAN/CGSB-85.100- 93, Painting.

.2 Canadian Painting Contractors' Architectural (CPCA).
.1 Painting Specifications Manual 1993.

.3 National Fire Code of Canada 1990.

.4 Steel Structures Painting Council (SSPC).
.1 Systems and Specifications Manual 1989.

1.2 Product Data

.1 Submit full records of all products used. List each product in relation to finish formula and include the following:

- .1 Finish formula designation.
- .2 Product type and use.
- .3 CGSB number.
- .4 Manufacturer's product number.
- .5 Colour number (s).
- .6 Manufacturer's Material Safety Data Sheets (MSDS).
- .7 Maximum VOC classification.
- .8 Eco-logo certification.

.2 Submit manufacturer's installation and application instructions for each product specified.

1.3 Samples

.1 Submit samples to the University as requested.

.2 Submit duplicate 300 x 200 mm sample panels of each paint, stain, clear coating, special finish, formula, type, colour and texture specified as requested by the University.

.3 Submit full range of available colours where colour availability is restricted.

.4 Use 3 mm plate steel for finishes over metal surfaces. Use 10 mm cedar, or hardboard, or siding or plywood for finishes over wood surfaces. Use 50 mm concrete block for finishes over concrete or concrete masonry surfaces. Use 12.5 mm gypsum board for finishes over smooth surfaces.

1.4 Quality Assurance

.1 Retain purchase orders, invoices and other documents to prove that all materials utilized in this contract meet requirements of the specifications. Produce documents when requested by the University.

.2 Walls. No defects visible from a distance of 1000 mm at 90 degrees to surface.

.3 Ceilings. No defects visible from floor at 45 degrees to surface when viewed using final lighting source.

.4 Final coat to exhibit uniformity of colour and texture as well as uniformity of sheen across full surface area.

1.5 Delivery,Storage and Handling

.1 Deliver and store materials in original containers, sealed, with labels intact.

.2 Indicate on containers or wrappings:
.1 Manufacturer's name and address.
.2 Type of paint.
.3 Compliance with applicable standard.
.4 Colour number in accordance with established colour schedule.

.3 Remove damaged, opened and rejected materials from site.

.4 Provide and maintain dry, temperature controlled, weatherproof, 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 a well ventilated area with temperature range 7 to 30 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 the University. After completion of operations, return areas to clean condition to approval of the University.

.10 Provide minimum one 9 kg Type ABC dry chemical fire extinguisher adjacent to storage area.

.11 Remove only in quantities required for same day use.

.12 Fire Safety Requirements
.1 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.
.2 Handle, store, use and dispose of flammable and combustible materials in accordance with the National Fire

Code of Canada.

1.6 Environmental Requirements

.1 Environment Choice Program

SPEC NOTE: Use caution when specifying only Ecologo products.

.1 Provide paint products certified to meet the requirements of the Environmental Choice Program, Department of the Environment.
.2 Submit CSA Certification Reports that products proposed for use are certified under the Environmental Choice Program. Water based paints to be certified to ECP-07-89. Solvent based paints to be certified to ECP-12-89.

.2 Safety: comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling storage, and disposal of hazardous materials.

.3 Ventilation:

SPEC NOTE: Use the following article to specify ventilation in occupied buildings using permanent system or by other means, as appropriate.

.1 The University will arrange for ventilation system to be operated during application of paint. Ventilate area of work as directed by the University by use of approved portable supply and exhaust fans.
.2 Provide continuous ventilation during and after application of paint. Run ventilation system 24 hours per day during application; provide continuous ventilation for 7 days after completion of application of paint.

.4 Apply paint finishes only when conditions forecast for entire period of application fall within manufacturer's recommendations.

.5 Where surface to be painted is not under cover, do not apply paint when:
.1 Substrate and ambient air temperature is below 5C for alkyd and 7C for latex paints or when temperature is expected to drop to 0C before paint has thoroughly cured.
.2 Substrate and ambient air temperature are expected to fall outside limits prescribed in paint standard and by

manufacturer.

.3 Temperature of surface is over 50C unless paint is specifically formulated for application at high temperatures.

.4 Rain or snow are forecast to occur before paint has thoroughly cured; it is foggy, misty, raining or snowing at site; relative humidity is above 85%.

.5 surface to be painted is wet, damp or frosted.

.6 Previous coat is not dry.

.6 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.

.7 Apply paint finish only when dust is no longer being generated by related construction operations or when wind conditions are such that airborne particles will not affect the quality of the finished surface.

.8 Schedule painting operations such that surfaces exposed to direct, intense sunlight are scheduled for completion during early morning.

.9 Remove paint from areas which have been exposed to freezing, excess humidity, rain, snow or condensation. Prepare surface again and repaint.

.10 Painting of occupied facilities to be carried out in accordance with approved schedule only. Schedule operations to approval of the University such that painted surfaces will have dried and cured sufficiently before occupants are affected.

1.7 Scheduling of Work

.1 Submit work schedule for various stages of painting to the University for approval. Submit schedule minimum of 48 hours in advance of proposed operations.

.2 Obtain written authorization from the University for any changes in work schedule.

.3 Schedule painting operations to prevent disruption of occupants in and about the building.

1.8 Extra Materials

.1 Submit one (1) – four (4) litre can of each type and colour o primer, stain and finish coating. Identify colour and paint type in relation to established colour schedule and finish formula.

.2 Deliver to the University and store where directed.

1.9 Waste Management

.1 Place materials defined as hazardous or toxic waste, including used sealant and adhesive tubes and containers, in containers or areas designated for hazardous waste.

.2 Return solvent and oil soaked rags, used during installation, for contaminant recovery, proper disposal, or appropriate cleaning with no contaminant release to water systems.

.3 Set aside and protect the following surplus and uncontaminated waste finish materials. Deliver to or arrange collection by employees, individuals, or organizations for verifiable re-use or re-manufacturing.

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

.5 Do not dispose of paints or solvents by pouring on the ground. Place in designated containers and ensure proper disposal.

.6 Solvent based paints, wood preservatives, stains and finishes which cannot be reused must be treated as hazardous waste and disposed of in an appropriate manner in accordance with hazardous waste regulations. Empty paint cans are to be dry prior to disposal or recycling (where available).

.7 Where paint recycling is available, collect all waste paint by type and provide for delivery to recycling or collection facility.

.8 Paints, stains and finishes are regarded as hazardous products and are subject to regulations for disposal.
Information on these controls can be obtained from the Minister of Environment.

PART 2 - PRODUCTS

2.1 Materials

SPEC NOTE: Current range of Ecologo approved products is quite restrictive and does not cover many basic paint products.

SPEC NOTE: ENVIRONMENTAL: Solvent-based paints have been traditionally considered more durable, but they produce intoxicating vapour when curing and require cleanup with hazardous solvents. The volatile content contributes to local air pollution. Although cleanup solvents are hazardous, they can be collected and recycled. Paints containing petroleum spirits are a fire-hazard. Those with very volatile solvents, such as solvent lacquers, can be explosive during use.

SPEC NOTE: ENVIRONMENTAL: It is very difficult to protect painters from inhaling toxic vapours during application without ensuring they wear expensive industrial respirator masks. The painters skin is also exposed to the toxic materials and, again, it is difficult to ensure they wear surgical gloves for protection. These problems emphasize the importance of using safer, low toxicity or all-natural paint formulations.

SPEC NOTE: ENVIRONMENTAL: Water-based paints are generally less hazardous to handle, but still contain a variety of toxic ingredients, as well as biocidal additives to prevent fungus growth and spoilage in the cans. The materials may be safer and less volatile than the petroleum spirits used in solvent-based paints, and they can be cleaned up with water. They contribute far less to local air pollution and hazardous waste problems. However, the biocides may be very toxic, and although phenyl mercuric acetate (PMA) was banned from use in indoor paints it still may be found in exterior formulas.

SPEC NOTE: ENVIRONMENTAL: When selecting paints, solvent free paints should be selected first followed by water based (latex) paints (low-toxicity water-based latex paints are considered safer than conventional latex paint). When this is not practical, solvent based paints with low VOC content should be specified. Higher grade paints should be chosen whenever practical. Select naturally formulated shellacs and varnishes instead of those containing high VOCs.

.1 Qualified products: only paint materials listed on the CGSB Qualified Products List Ecologo approved products are acceptable for use on this project.

SPEC NOTE: Use the following paragraph only when CPCA Specification manual is used for specifying painting operations.

.2 Qualified products: only paint materials listed on the CPCA Approved Product Lists are acceptable for use on this project.

SPEC NOTE: ENVIRONMENTAL: If Ecologo products prove to be too restrictive, consider selecting some of the specifications from the following paragraphs which incorporate some suggestions for increasing environmental responsibility.

.3 Paints, coatings, adhesives, solvents, cleaners, lubricants, and other fluids, shall possess the following characteristics: water based, water soluble, water clean-up, non-flammable, biodegradable, low Volatile Organic Compound (VOC) content, manufactured without compounds which contribute to ozone depletion in the upper atmosphere, manufactured without compounds which contribute to smog in the lower atmosphere, does not contain methylene chloride,and does not contain chlorinated hydrocarbons or does not contain toxic metal pigments.

.4 Water-borne surface coatings must:

.1 meet or exceed all applicable governmental and/or industrial safety and performance standards; and

SPEC NOTE: In Canada, standards for surface coatings are published by the Canadian General Standards Board (CGSB) and the Bureau de normalisation du Quebec (BNQ). Acceptable test methods are available from ASTM and CGSB.

.2 be manufactured and transported in such a manner that all steps of the process, including the disposal of waste products arising therefrom, will meet the requirements of all applicable governmental acts, by laws and regulations including, for facilities located in Canada, the Fisheries Act, the Canadian Environmental Protection Act (CEPA) and the Environmental Protection Act (Newfoundland).

.5 Water-borne surface coatings must not be formulated or

manufactured with: aromatic solvents, formaldehyde, halogenated solvents, mercury, lead, cadmium, hexavelant chromium or their compounds.

.6 Water-borne surface coatings and recycled water-borne surface coatings must have a flash point of 61.0 C or greater.

.7 Both water-borne surface coatings and recycled water-borne surface coatings must be made by a process that does not release:
.1 matter in the undiluted production plant effluent generating a 'Biochemical Oxygen Demand' (BOD) in excess of 15 mg/L to a natural watercourse or a sewage treatment facility lacking secondary treatment or
.2 Total Suspended Solids (TSS) in the undiluted production plant effluent in excess of 15 mg/L to a natural watercourse or a sewage treatment facility lacking secondary treatment.

.8 Water-borne surface coatings and recycled water-borne surface coatings must contain information describing proper disposal methods within their packaging.

SPEC NOTE: The calculation of VOCs shall: exclude water; and exclude tinting colorant added at the point of sale, where applicable.

.9 Water-borne paints and stains and recycled water-borne surface coatings must not contain VOCs in excess of 250 g/L as determined by ASTM test method D 3960 Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings.

.10 Water-borne varnishes must not contain VOCs in excess of 300 g/L.

.11 Recycled water-borne surface coatings must contain fifty (50)
% post-consumer material by volume.

.12 Recycled water-borne surface coatings must not contain:
.1 lead in excess of 600.0 ppm weight/weight total solids,
.2 mercury in excess of 50.0 ppm weight/weight total product,
.3 cadmium in excess of 1.0 ppm weight/weight total product,

.4 hexavalent chromium in excess of 3.0 ppm weight/weight total product,

.5 organochlorines or polychlorinated biphenyls (PCBs) in excess of 1.0 ppm weight/weight total product.

.13 The following must be performed on each batch of consolidated post-consumer material before the surface coating is reformulated and canned. These tests must be performed at a laboratory or facility which has been accredited by the Standards Council of Canada.

.1 Lead, cadmium and chromium are to be determined using ICP-AES (Inductively Coupled Plasma - Atomic Emission Spectroscopy) technique no. 6010 as defined in EPA Test Methods for Evaluating Solid Wastes, SW-846.

.2 Mercury is to be determined by Cold Vapour Atomic Absorption Spectroscopy using Technique no. 7471 as defined in EPA Test Methods for Evaluating Solid Wastes, SW-846.

.3 Organochlorines and PCBs are to be determined by Gas Chromatography using Technique no. 8081 as defined in EPA Test Methods for Evaluating Solid Wastes, SW-846.

SPEC NOTE: ENVIRONMENTAL: When protecting wood surfaces with oil finishes, avoid products containing tung oil; it is a suspected immune suppressant.

SPEC NOTE: ENVIRONMENTAL: Specify the least toxic sealants, adhesives, sealers, and finishes necessary to comply with the requirements of this section. Water-based acrylic sealers are a preferable alternative to silicone which emits toxic vapours during installation.

.14 The manufacturing process must adhere to Lifecycle Assessment (LCA) Standards as per CAN/CSA-ISO 14040.

.15 Paint materials for each coating formula to be products of a single manufacturer.

2.2 Colours

SPEC NOTE: ENVIRONMENTAL: Coloured pigments are made from a wide variety of chemicals, ranging from relatively safe mineral oxides and plant pigments to very toxic lead and cadmium compounds. Lead and cadmium are both heavy metals which are now closely regulated in consumer products due to health risks. Lead is clearly linked to neurological damage and will accumulate in

persons who are chronically exposed. Cadmium is clearly linked to kidney damage.

SPEC NOTE: ENVIRONMENTAL: In low toxicity paints, the tint is likely the component with the greatest environmental impact and health risks. For this reason, pastel shades are preferable to more heavily saturated colours.

.1 The University will provide Colour Schedule after contract award. Submit proposed Colour Schedule to the University for approval.

.2 Colour schedule will be based upon Base colour on the selection of five base colours and three accent colours.

.3 Perform all colour tinting operations prior to delivery of paint to site. Unless approved in writing by the University.

.4 Ensure each second coat in a three coat system is tinted lighter colour than top coat.

2.3 Paint Finishes

SPEC NOTE: The following finish formula are based on premium systems consisting typically of three coats (one primer and two finish coats). If custom systems are desired (one primer and one finish coat), delete one finish coat.

SPEC NOTE: The following finish formula are prepared assuming new construction. Most formula would be also applicable for use on repainting projects except where repainting over unknown or specialized coatings. Exercise care when selecting new coatings over specialty finishes to avoid incompatible reactions.

SPEC NOTE: For repainting projects it may be possible to specify custom systems using spot priming and two new finish coats. Depending on the amount of surface preparation required, it may be necessary for the application of a full, complete primer coat plus two finish coats.

SPEC NOTE: Specify finish formula by CGSB references or by using the CPCA System designations not both.

SPEC NOTE: If different gloss levels are desired on surfaces in different locations, repeat formula as necessary. Ensure gloss level for each area is indicated in Finish Schedule or on Drawings.

SPEC NOTE: For deep colours or high contrast accent colours, include a third finish coat. It is not possible to apply semigloss or high gloss paints in deep colours in less than 3 finish coats and expect satisfactory results. Where repainting over deep colours a minimum of 3 finish coats is recommended.

SPEC NOTE: Low odour products. Whenever possible, select products exhibiting low odour characteristics. If two products are otherwise equivalent, select the product with the lowest odour.

.1 Formula 1 (Alkyd): for wood fences, siding, glue, laminated beams and columns, plywood, wall shingles to receive paint apply:
.1 one coat wood filler.
.2 spot prime knots and resinous areas CAN/CGSB-1.126.
.3 one coat alkyd primer CAN/CGSB-1.189.
.4 two coats flat alkyd enamel CAN/CGSB-1.135, or two coats alkyd gloss enamel CAN/CGSB-1.59, or two coats alkyd house paint CAN/CGSB-1.28.
.5 CPCA System: EXT-1-A, premium or custom. Gloss: flat or gloss.

.2 Formula 2 (Latex): for wood fences, siding, glue laminated beams and columns, plywood, wall shingles to receive paint apply:
.1 one coat wood filler.
.2 spot prime knots and resinous areas CAN/CGSB-1.126.
.3 one coat alkyd primer CAN/CGSB-1.189.
.4 two coats latex flat CAN/CGSB-1.138, or two coats latex semigloss or two coats latex gloss acrylic.
.5 CPCA System: EXT-1-B, premium or custom. Gloss: flat, semigloss or gloss.

.3 Formula 3 (Oil): for wood fences, siding, glue laminated beams and columns, plywood, wall shingles to receive semi- transparent or solid colour stain apply:
.1 one coat wood filler.
.2 two coats semi-transparent or solid colour oil stain CAN/CGSB-1.145 (Type I).
.3 CPCA System: EXT-1-C, premium semi-transparent or solid colour.

.4 Formula 4 (Alkyd): for wood doors, door frames, window sash and frames, fascia, trim to receive paint apply:
.1 one coat wood filler.
.2 spot prime knots and resinous areas CAN/CGSB-1.126.
.3 one coat alkyd primer CAN/CGSB-1.189.
.4 two coats alkyd gloss enamel CAN/CGSB-1.59.
.5 CPCA System: EXT-2-A, premium.

.5 Formula 5 (Oil): for wood doors, door frames, window sash and frames, fascial, trim to receive semi-transparent or solid colour stain apply:
.1 one coat wood filler.
.2 two coats semi-transparent or solid colour oil stain CAN/CGSB-1.145 (Type I).
.3 CPCA System: EXT-2-B, premium (semi-transparent) or EXT-2-C, premium or custom or, solid or colour).

.6 Formula 6 (Varnish): for wood doors, door frames, window sash and frames, fascia, trim to receive stain and varnish apply:
.1 one coat wood filler.
.2 one coat semi-transparent oil stain CAN/CGSB-1.145 (Type I).
.3 two coats exterior marine gloss varnish CAN/CGSB-1.99, or two coats exterior semigloss varnish.
.4 CPCA System: EXT-2-D, premium.

.7 Formula 7 (Varnish): for wood doors, door frames, window sash and frames, fascial, trim to receive clear varnish apply:
.1 one coat wood filler.
.2 one coat exterior marine gloss varnish CAN/CGSB-1.99. Reduced, or one coat exterior semigloss varnish reduced.
.3 three coats exterior marine gloss varnish CAN/CGSB- 1.99, or three coats exterior semigloss varnish.
.4 CPCA System: EXT-2-E, premium. Gloss: gloss or semigloss.

.8 Formula 8 (Polyurethane): for wood doors, door frames, window sash and frames, fascia, trim to receive clear polyurethane apply:
.1 one coat wood filler.

.2 one coat two-component polyurethane CGSB1-GP-180Ma (Type 1). Reduced.
.3 two coats two-component polyurethane CGSB1-GP- 180Ma (Type 1).
.4 CPCA System: EXT-2-H, premium.

.9 Formula 9 (Latex): for cast concrete walls and /or concrete masonry surfaces to receive paint apply:
.1 one coat block filler CAN/CGSB-1.188.
.2 two coats latex flat CAN/CGSB-1.138, two coats latex semigloss, two coats latex gloss acrylic.
.3 CPCA System: EXT-6-B, premium/custom . Gloss: flat, semigloss or gloss.

.10 Formula 10 (Latex): for brick masonry, stucco, cement board and parged surfaces to receive paint apply:
.1 three coats latex flat CAN/CGSB-1.138, or three coats latex semigloss, or three coats latex gloss acrylic.
.2 CPCA System: Ext-6-A, premium or custom. Gloss: flat, semigloss or gloss.

.11 Formula 11 (Aggregate latex): for cast concrete walls, concrete masonry, brick masonry, stucco, and parged surfaces to receive painted aggregate finish apply:
.1 two coats stucco and masonry coating CAN/CGSB-1.162. Type 1 – coarse or Type 2 - medium.
.2 one coat latex flat CAN/CGSB-1.138 or one coat latex semigloss, or one coat latex glass acrylic.
.3 CPCA System: EXT-6-C, premium or custom. Gloss: flat, semigloss or gloss.

.12 Formula 12 (Epoxy): for cast concrete, concrete masonry, surfaces to receive epoxy finish apply:
.1 one coat block filler CAN/CGSB-1.188, or one coat epoxy block filler.
.2 two coats two component cold curing gloss epoxy CAN/CGSB-1.146.
.3 CPCA System: EXT-6-G, premium or custom.

.13 Formula13 (Oil) for open dimensional wood decks to receive stain apply:
.1 one coat wood preservative.
.2 two coats semi-transparent oil stain CAN/CGSB-1.145. Type 1.

.3 CPCA System: EXT-9-D, premium.

SPEC NOTE: Review selection of "Shop" applied primers specified in other sections to ensure compatibility with finish coatings specified herein.

.14 Formula 14 (Alkyd): for primed ferrous metal to receive paint apply:
.1 spot priming with shop primer.
.2 one coat oil alkyd primer CAN/CGSB-1.40, or one coat zinc chromate primer CAN/CGSB-1.132.
.3 two coats alkyd flat enamel CAN/CGSB-1.135, or two coats alkyd gloss enamel CAN/CGSB-1.59.
.4 CPCA System: EXT-11-A, premium or custom. Gloss: flat or gloss.

.15 Formula 15 (Epoxy): for primed ferrous metal to receive epoxy paint apply:
.1 spot priming with shop primer.
.2 one coat cold cured epoxy primer CAN/CGSB-1.165. Type 1.
.3 two coats high-build gloss epoxy CAN/CGSB-1.153, or two coats cold cured gloss epoxy CAN/CGSB-1.146.
.4 CPCA System: EXT-11-D, premium or custom.

.16 Formula 16 (Alkyd): for primed ferrous metal exposed to marine environment to receive paint apply:
.1 one coat marine primer CGSB 1-GP-48M.
.2 two coats alkyd marine enamel CGSB 1-GP-61Ma.

.17 Formula 17 (Alkyd): for galvanized and zinc coated metal to receive paint apply:
.1 one coat cementitious primer CAN/CGSB-1.198.
.2 two coats flat alkyd enamel CAN/CGSB-1.135, or two coats alkyd gloss enamel CAN/CGSB-1.59.
.3 CPCA System: EXT-12-A, premium or custom. Gloss: flat or gloss.

.18 Formula 18 (Alkyd): for aluminum to receive paint apply:
.1 one coat vinyl wash primer CAN/CGSB-1.121.
.2 two coats flat alkyd enamel CAN/CGSB-1.135, or two coats alkyd gloss enamel CAN/CGSB-1.59.
.3 CPCA System: EXT-13-A, premium or custom. Gloss: flat or gloss.

.19 Formula 19 (Aluminum): for aluminum to receive aluminum paint apply:
- .1 one coat vinyl wash primer CAN/CGSB-1.121.
- .2 two coats aluminum paint CAN/CGSB-1.69.
- .3 CPCA System: EXT-13-B, premium or custom.

2.4 Special Finishes

SPEC NOTE: Many specialty paint finishes are available for application in corrosive or industrial environments. As surface preparation and application instructions vary widely from one manufacturer to another, select specific products and specify application in accordance with manufacturers recommendations. For detailed specifications on these finishes and their application refer to SSPC Painting system specifications.

.1 Formula 20: for metal surfaces exposed to heat medium temperature range to 425C apply:
- .1 two coats aluminum enamel to CAN/CGSB-1.143.
- .2 CPCA System: EXT-15-D. premium or custom.

.2 Formula 21 (Chlorinated Rubber): for surfaces exposed to Moderate or Heavy Duty corrosive environments apply:
- .1 one coat chlorinated rubber primer.
- .2 two coats chlorinated rubber enamel.

PART 3 - EXECUTION

3.1 General

.1 Perform all painting operations in accordance with CAN/CGSB-85.100.

.2 Perform all painting operations in accordance with CPCA Painting Specifications Manual except where specified otherwise.

.3 Apply all paint materials in accordance with paint manufacturers written application instructions.

3.2 Preparation

.1 Remove electrical cover plates, light fixtures, surface hardware on doors, and all other surface mounted fittings, equipment and fastenings prior to undertaking any painting operations. Store for re-installation after painting is

completed.

.2 Cover or move portable equipment around building as necessary to carry out painting operations. Replace as painting operations progress.

.3 As painting operations progress, place "WET PAINT" signs in areas of work to approval of the University.

3.3 Protection

.1 Protect exterior existing building surfaces not to be painted from paint spatters, markings and other damage. If damaged, clean and restore such surfaces as directed by the University.

.2 Cover or mask windows and other ornamental hardware adjacent to areas being painted to prevent damage and to protect from paint drops and splatters. Use non-staining coverings.

.3 Protect items that are permanently attached such as Fire Labels on doors and frames.

.4 Protect factory finished products and equipment.

.5 Protect passing pedestrians, building occupants and the general public in and about the building.

3.4 Existing Conditions

.1 Investigate existing substrates for problems related to proper and complete preparation of surfaces to be painted. Report to the University all damage, defects, unsatisfactory or unfavourable conditions before proceeding with work.

.2 Investigate moisture content of surfaces to be painted and report findings to the University. Do not proceed with work until conditions fall within acceptable range as recommended by manufacturer.

.3 Maximum moisture content as follows:
- .1 Masonry/Concrete: 12%.
- .2 Concrete Block/Brick: 12%.
- .3 Wood: 15%.

3.5 Cleaning

.1 To prepare surfaces for water based painting, water based cleaners should be used in place of organic solvents.
- .1 Use trigger operated spray nozzles for water hoses.

.2 Many water based paints cannot be removed with water once dried. However, minimize the use of kerosene or any such organic solvents to clean up water based paints.

.2 Clean all surfaces to be painted as follows:

.1 Remove all dust, dirt, and other surface debris by wiping with dry, clean cloths or compressed air .

.2 Wash surfaces with solution of T.S.P. bleach and clean warm water using a stiff bristle brush to remove dirt, oil and other surface contaminants.

.3 Rinse scrubbed surfaces with clean water until foreign matter is flushed from surface.

.4 Allow surfaces to drain completely and allow to dry thoroughly.

SPEC NOTE: Use water blasting only when necessary for extreme cases of contamination by oily residue and where hand washing is impractical.

.3 Clean the surfaces with high pressure water washing: as directed by the University.

.4 Prevent contamination of cleaned surfaces before prime coat is applied and between applications of remaining coats. Apply primer, paint, or pretreatment as soon as possible after cleaning and before deterioration occurs.

3.6 Surface Preparation

.1 Prepare new wood surfaces to CGSB 85-GP-1M.

.2 Prime surfaces of new wood before installation.

.3 Prepare previously painted wood surfaces to CGSB 85-GP- 2M.

.1 Apply vinyl sealer to CAN/CGSB-1.126 over knots, pitch, sap and resinous areas.

.2 Apply exterior wood filler to nail holes and cracks.

.3 Tint filler to match stains for stained woodwork.

.4 Prepare stucco, brick, concrete masonry and concrete surfaces to CGSB 85-GP-31M.

.5 Sand existing surfaces.

3.7 Surface

SPEC NOTE: Select degree of surface preparation required based

Preparation -Metal

on in-service conditions. Generally, specify more intensive cleaning (SP6 or 7) in more aggressive environments.

.1 Clean new metal surfaces to be painted in accordance with the following:
- .1 Solvent cleaning: SSPC-SP-1.
- .2 Hand tool cleaning: SSPC-SP-2.
- .3 Power tool cleaning: SSPC-SP-3.
- .4 Commercial blast cleaning: SSPC-SP-6.
- .5 Brush-off blast cleaning: SSPC-SP-7.

.2 Clean existing metal surfaces to be repainted in accordance with following:
- .1 Scrape edges of old paint back to sound material where remaining paint is thick and sound, feather exposed edges.
- .2 Clean rusted and bare metal surfaces where existing paint system has failed.
- .3 Solvent cleaning: SSPC-SP-1.
- .4 Hand tool cleaning: SSPC-SP-2.
- .5 Power tool cleaning: SSPC-SP-3.
- .6 Commercial blast cleaning: SSPC-SP-6.
- .7 Brush-off blast cleaning: SSPC-SP-7.

.3 Remove traces of blast products from surfaces, pockets and corners to be painted by brushing with clean brushes or blowing with clean dry compressed air.

.4 Touch up damaged or defective paint or rusted areas shop primer to CGSB 85-GP-10M with primer as specified in applicable section.

.5 Prepare galvanized steel and zinc coated steel surfaces to CGSB 85-GP-16M.

.6 Prepare new steel surfaces exposed normally to dry conditions to CGSB 85-GP-14M.

.7 Prepare previously painted steel surfaces exposed normally to dry conditions to CGSB 85-GP-15M.

.8 Prepare steel surfaces exposed to industrial environments to CGSB85-GP-13M.

.9 Prepare steel surfaces exposed to water or high humidity levels to CGSB-85-GP-11M or CGSB-85-GP-18M.

.10 Apply paint only after prepared surfaces have been accepted by the University.

3.8 Mixing Paint

.1 Do not use kerosene or any such organic solvents to thin water based paints.

.2 Mix ingredients in container before and during use and ensure breaking up of lumps, complete dispersion of settled pigment, and uniform composition.

.3 Thin paint for spraying according to manufacturer's written instructions and provide copy to the University.

3.9 Application

SPEC NOTE: ENVIRONMENTAL: The method of application is very important. Spraying releases large amounts of paint into the air, adding to inhalation and skin contact risk, and in some cases fire risk. Ensure that proper safety precautions are followed when spray applications are necessary. Brush and roller applications are far safer.

.1 Apply paint by brush, roller, air sprayer or airless sprayer as approved by the University. Conform to manufacturer's application instructions unless specified otherwise.

.2 Brush application.
.1 Work paint into cracks, crevices and corners. Paint surfaces not accessible to brushes by daubers or sheepskins.
.2 Brush out runs and sags.
.3 Remove runs, sags and brush marks from finished work and repaint.

.3 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.

.4 Brush out immediately all runs and sags.

.5 Use brushes to work paint into cracks, crevices and places which are not adequately painted by spray.

.4 Use dipping, sheepskins or daubers only when no other method is practical in places of difficult access and only when specifically authorized by the University.

.5 Apply each coat of paint as a continuous film of uniform thickness. Repaint thin spots or bare areas before next coat of paint is applied.

.6 Allow surfaces to dry and properly cure after cleaning and between subsequent coats for minimum time period as recommended by manufacturer.

.7 Sand and dust between each coat to remove visible defects.

.8 Finish tops of projecting ledges, both above and below sight lines as specified for surrounding surfaces.

.9 Finish top, bottom, edges and cutouts of doors after fitting as specified for door surfaces.

3.10 Mechanical and Electrical Equipment

.1 Paint exposed conduits, piping, hangers ductwork and other mechanical and electrical equipment unless specified otherwise. Colour to match adjacent surfaces except as specified otherwise.

.2 Touch up scratches and marks on factory painted finishes and equipment with paint as supplied by manufacturer of equipment.

3.11 Field Quality Control

.1 Field inspection of painting operations to be carried out be independent inspection firm as designated by the University.

.2 Advise the University when each applied coating is ready for inspection. Do not proceed with subsequent coats until previous coat has been approved.

.3 Co-operate with inspection firm and provide access to all areas of the work.

3.12 Restoration

.1 Clean and re-install all items that were removed before undertaking 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 surfaces from paint droppings and dust to approval of the University. Avoid scuffing newly applied paint.

.5 Restore areas used for storage, cleaning, mixing and handling of paint to clean condition as approved by the University.

APPENDIX B – SUBMISSION FORM

1. Bidder Information

Please fill out the following form, naming one person to be the bidder's contact for the Open Call process and for any clarifications or communication that might be necessary.	
Full Legal Name of Bidder:	
Any Other Relevant Name under which Bidder Carries on Business:	
Street Address:	
City, Province/State:	
Postal Code:	
Phone Number:	
Fax Number:	
Company Website (if any):	
Bidder Contact Name and Title:	
Bidder Contact Phone:	
Bidder Contact Fax:	
Bidder Contact Email:	

2. Offer

The bidder has carefully examined the Open Call documents and has a clear and comprehensive knowledge of the Deliverables required under the Open Call. By submitting a bid, the bidder agrees and consents to the terms, conditions and provisions of the Open Call, including the Form of Agreement, and offers to provide the Deliverables in accordance therewith at the rates set out in the completed Pricing Form (Appendix C).

3. Rates

The bidder has submitted its rates in accordance with the instructions in the Open Call and in the Pricing Form (Appendix C). The bidder confirms that it has factored all of the provisions of Appendix A, including insurance and indemnity requirements, into its pricing assumptions and calculations.

4. Addenda

The bidder is deemed to have read and accepted all addenda issued by the Owner. The onus is on bidders to make any necessary amendments to their bids based on the addenda. The bidder is required to confirm that it has received all addenda by listing the addenda numbers on the following line: (For example, if Addendum 1 has been issued, enter 1 on the line. If there are two addenda, enter 1, 2.) _____. Bidders who fail to complete this section will be deemed to have not received all posted addenda and shall be deemed **non- compliant.**

5. No Prohibited Conduct

The bidder declares that it has not engaged in any conduct prohibited by this Open Call.

6. Disclosure of Information

The bidder hereby agrees that any information provided in this bid, even if it is identified as being supplied in confidence, may be disclosed where required by law or by order of a court or tribunal. The bidder hereby consents to the disclosure, on a confidential basis, of this bid by the Owner to the advisers retained by the Owner to advise or assist with the Open Call process, including with respect to the evaluation of this bid.

7. Bid Irrevocable

The bidder agrees that its tender shall be irrevocable for a period of **[**90**]** days following the Submission Deadline.

8. Execution of Agreement

The bidder agrees that in the event its bid is selected by the Owner, in whole or in part, it will finalize and execute the Agreement in the form set out in Appendix A (or in a form mutually acceptable to the parties) to this Open Call in accordance with the terms of this Open Call . Failure to submit this signature section will render the proposal NON-COMPLIANT and the proposal will be disqualified.

Signature of Witness	Signature of Bidder Representative
Name of Witness	Name of Bidder Representative
	Title of Bidder Representative
	Date

I have the authority to bind the bidder.

IN SIGNING THIS PAGE AND SUBMITTING YOUR PROPOSAL, THE PROPONENT ACKNOWLEDGES HAVING READ, UNDERSTOOD AND AGREED TO THE TERMS AND CONDITIONS OF THIS DOCUMENT

APPENDIX C – PRICING FORM

1. INSTRUCTIONS ON HOW TO COMPLETE THE PRICING FORM

- Rates must be provided in Canadian funds, inclusive of all applicable duties and taxes except for HST, which should be itemized separately.

- Rates quoted by the bidder must be all-inclusive and must include all labor and material costs, all travel and carriage costs, all insurance costs, all costs of delivery to the Owner, all costs of installation and set-up, including any pre-delivery inspection charges, and all other overhead, including any fees or other charges required by law.

2. THE DELIVERABLES:

Painting, Plastering and Related Repairs Maintenance/Service Contract
as per specifications listed in **Appendix A**

3. MANDATORY SUBMISSION REQUIREMENTS

1. **Specification Form (Appendix A)** As per instructions on form

2. **Submission Form (Appendix B)**
   Each bid must include a Submission Form - Appendix B

3. **Pricing Form (Appendix C)**
   Each bid must include Pricing Form - Appendix C according to the instructions contained in this Appendix.

4. **List of Subcontractors (Appendix D)**
   Each bid must include a List of Subcontractors (Appendix D).

5. **General Conditions and Agreement Between the University and Supplier for Maintenance/Service Contracts. (Appendix E)**

PRICING FORM

	COLUMN	A	B	C	D
#	DESCRIPTION	ESTIMATED QUANTITY	UNIT OF MEASURE	RATE PER EACH UNIT OF MEASURE	RATE (C) X ESTIMATED QUANTITY (A)
1	New Gyproc Plastering Walls and Ceilings	20,000	sq ft	$	$
2	Painting per coat. Walls and ceilings. (Gyproc or plaster)	35,000	sq ft	$	$
3	Painting per coat (Concrete or concrete block)	150,000	sq ft	$	$
4	Painting per coat. Walls and ceilings. (Stucco)	10,000	sq ft	$	$
5	Painting per coat (Concrete floor)	10,000	sq ft	$	$
6	Painting per coat epoxy (Concrete floor)	5000	sq ft	$	$
7	Stair Risers (Scrape, spot prime and paint two coat)	2500	sq ft	$	$
8	Plaster, spot prime and paint one coat gyproc or plaster. See Note 1 Below	35,000	sq ft	$	$
9	Spot prime and paint one coat gyproc or plaster	100,000	sq ft	$	$
10	Spot prime and paint two coat gyproc or plaster	100,000	sq ft	$	$
11	Patch gyproc or plaster. See Note 2 Below.	3000	sq ft	$	$
12	Hourly Rate for Journeymen Painter - *Monday To Friday - As Required*	500	hours	$	$
13	Hourly Rate for Journeymen Painter - *Monday to Friday Overtime - As Required*	100	hours	$	$

14	**Hourly Rate for Journeymen Painter -** *Saturday, Sunday, Agreed Holidays - As Required*	**100**	**hours**	**$**	**$**
15	**Hourly Rate for Apprentice Painter -** *Monday To Friday - As Required* See Note 3 Below	**500**	**hours**	**$**	**$**
16	**Hourly Rate for Apprentice Painter -** *Monday to Friday Overtime - As Required*	**100**	**hours**	**$**	**$**
17	**Hourly Rate for Apprentice Painter -** *Saturday, Sunday, Agreed Holidays - As Required*	**100**	**hours**	**$**	**$**
18	**Asbestos Abatement as per Appendix "C", Specifications, Article 2 Scope of Work, 2.7**	**100**	**hours**	**$**	**$**
				SUBTOTAL	**$**
				HST	**$**
				TOTAL	**$**

Notes:

1	***The plaster section in # 8 "Plaster, spot prime and one coat" refers to imperfections and/or holes in the surface that require three (3) coats or less and are less than one (1) square foot.***
2	***"Patch gyproc or plaster" refers to damage and/or holes that are larger than one (1) square foot and require filler and three (3) coats or more of plaster.***
3	***The rate for a Apprentice Painter must not be less than the minimum wage as per Provincial Labour Regulations***

APPENDIX D – LIST OF SUBCONTRACTORS

Herewith is the list of Subcontractors referred to in General Conditions of the Open Call for Bids documents. The Subcontractors and Suppliers whose bids have been used in the preparation of this Open Call must be listed in full, including work to be done by own forces (B.O.F.). The list will be subject to the approval of the University. “By own forces” will be considered valid and satisfactory only if the Open Call is recognized by the Newfoundland and Labrador Construction Association or by the Road Builders Association as being a “bona fide” Contractor and Supplier of that particular trade or item

Open Call for Bids which do not include this list may be subject to rejection.

TRADE/DIVISION	SUBCONTRACTOR	SUPPLIER

APPENDIX E – CONTRACTOR SAFETY MANAGEMENT ELEMENT

Contractor Safety Management Element

November 2018

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1.0 Purpose

This element establishes the requirements for the administration and monitoring of contractor health and safety programs and activities at Memorial University. These measures shall ensure that contractors understand their collective responsibility with respect to the Occupational Health & Safety Act and Regulations, Memorial University policy and this element.

2.0 Scope

This procedure shall apply to all work done for Memorial University of Newfoundland with respect to the provision of services as outlined below. Memorial University reserves the right to exempt a Contractor from this element, in whole or in part, based upon an evaluation of the risk of the work being conducted. This evaluation must comply with the hazard identification and risk management element.

3.0 Definitions

Act: Newfoundland & Labrador Occupational Health & Safety Act, latest edition.

Contract: A documented agreement between Memorial University and a contractor.

Contractor: The principal contractor, person, partnership, or corporation bound to execute the work under the contract and defined as such in the agreement is responsible for the supervision of the work so as to ensure the work is carried out in accordance with the contract.

Project Management Team: The group assigned by the University to act on behalf of the owner with respect to the execution of Contractor work.

Principal Contractor: The person primarily responsible for the carrying out of a contract.

Regulations: Newfoundland & Labrador Occupational Health & Safety Regulations, latest edition.

Subcontractor: A person, firm or corporation having a direct contract with the Contractor or subcontractor(s) to perform a part or parts of the work included in the contract, or to supply products worked to a special design according to the contract documents, but does not include one who merely supplies products not so worked.

Owner: The Owner, Engineer/Architect are the persons, firms or corporation identified as such in the Contract. The term Owner, Engineer/Architect means, respectively, each of the Owner, Engineer/Architect and their authorized representatives as designated by each such party in writing.

Work: The services and job procedure completion that is described in the contract.

4.0 Roles and Responsibilities

4.1 Project Management Team

Will monitor the Contractor's performance for health and safety compliance. Monitoring activities may include but are not limited to**:**

- planned and unplanned workplace inspections;
- attendance of meetings;
- communications of safety related issues and topics, as deemed necessary;
- review of contractor records, inspections, work practices and documentation; and
- complete audits to verify that contractors and subcontractors are meeting their legislative, procedural and contractual responsibilities.

4.2 Contractors

Will comply with applicable Federal and Provincial legislation and applicable MUN safety procedures. Contractor responsibilities include but not limited to:

- report all incidents immediately to the required University project team followed by a written incident report within 24 hours;
- be responsible for the safety of subcontractors including those not under their employ;
- stop work if the conditions are such that work cannot be performed safely;
- perform evaluation, monitoring of the workplace to identify potential hazards and associated risks and ensure corrective actions are implemented;
- ensure daily task specific hazard assessments are completed; and
- maintain the accountability of persons responsible for the reporting and correction of hazards.

5.0 Procedure

5.1 Considerations prior to signing of contract

5.1.1 Prior to signing of contract, the preferred General Contractor shall provide proof of compliance with 5.2.1.

Within seven (7) calendar days after a pre-signing start up meeting the General Contractor shall provide proof of compliance of themselves and their subcontractors with 5.2.1 as well as provide the information requested in Section 5.2.2(a) (b).

5.2 Requirements

5.2.1 All Contractors, and their Subcontractors, shall be required to submit confirmation of a current third party occupational health and safety program certification (Letter of Assurance). These may include, but not be limited to, Certificate of Recognition (COR), OHSAS 18001, and CSA Z.1000.

5.2.2 Contractors shall also provide the following:

(a) health and safety policy statement;

(b) safety program table of contents; and

(c) site hazard assessment;

The hazard assessment shall be updated by the General Contractor and re-submitted whenever the conditions, work practices or work forces change to the extent that new hazards can be identified.

5.2.3 In lieu of a Subcontractors 3rd party program, Contractors shall be required to integrate the Subcontractor(s) into the Contractors program and provide proof of same.

5.2.4 Memorial reserves the right to request and audit the full safety program of Contractors and Subcontractors and their associated documentation. This documentation may include, but not be limited to the following:

(a) safety program and/or manual

(b) applicable documented safe work practices;

(c) inspection reports and schedules;

(d) required employee safety training certifications and qualifications; and

(e) updated list of OHS Committee and/or a worker health and safety representative, or workplace health and safety designate.

Request for submission shall be complied with within 7 calendar days of a written request from Memorial's Environmental Health and Safety unit.

5.2.5 Memorial reserves the right to:

(1) Reject any Contractor that fails to meet the requirements or schedules outlined herein;

(2) The University reserves the right to stop any work or portion of work where the risk presents an immediate danger.

5.3 Schedule of Submissions

5.3.1 General Contractors and their sub-contractors who have complied with 5.1.1 will be permitted to commence physical work on the site however no work shall be performed by the General Contractor, their sub-contractors until such a time as they comply with 5.1.1.

6.0 Post-Contract Evaluation

The Project Management Team will determine the extent of the evaluation of the Contractor's safety performance at the completion of the contract. This evaluation will be conducted by way of a standard contractor safety evaluation form and will be supported by objective evidence documented during the term of the Contract. The records of the evaluation must be retained with the project owner.