

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Public Works Government Services Canada- Bid
Receiving / Réception des soumissions
189 Prince William Street
Room 421
Saint John
New Brunswick
E2L 2B9

Request For a Standing Offer
Demande d'offre à commandes

Regional Individual Standing Offer (RISO)
Offre à commandes individuelle régionale (OCIR)

Canada, as represented by the Minister of Public Works and Government Services Canada, hereby requests a Standing Offer on behalf of the Identified Users herein.

Le Canada, représenté par le ministre des Travaux Publics et Services Gouvernementaux Canada, autorise par la présente, une offre à commandes au nom des utilisateurs identifiés énumérés ci-après.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works Government Services Canada- Bid
Receiving / Réception des soumissions
189 Prince William Street
Room 421
Saint John
New Bruns
E2L 2B9

Title - Sujet Asphalt Paving Repairs, CFB Gagetown	
Solicitation No. - N° de l'invitation W0105-14E020/A	Date 2013-12-09
Client Reference No. - N° de référence du client W0105-14E020	GETS Ref. No. - N° de réf. de SEAG PW-\$PWB-004-3343
File No. - N° de dossier PWB-3-36092 (004)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-01-09	
Time Zone Fuseau horaire Atlantic Standard Time AST	
Delivery Required - Livraison exigée See Herein	
Address Enquiries to: - Adresser toutes questions à: Doucet, Gisele PWB	Buyer Id - Id de l'acheteur pwb004
Telephone No. - N° de téléphone (506)636-4541 ()	FAX No. - N° de FAX (506)636-4376
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Placement & Repair Asphalt Pavement CFB Gagetown Various Areas OROMOCTO New Brunswick E2V4J5 Canada	
Security - Sécurité This request for a Standing Offer does not include provisions for security. Cette Demande d'offre à commandes ne comprend pas des dispositions en matière de sécurité.	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone	Facsimile No. - N° de télécopieur
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

REQUEST FOR STANDING OFFER (RFSO)

PLACEMENT AND REPAIR OF ASPHALT PAVING CFB GAGETOWN, OROMOCTO, N.B.

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PART 1 - GENERAL INFORMATION

1. Introduction

The Request for Standing Offers (RFSO) is divided into seven parts plus attachments and annexes, as follows:

Part 1 General Information: provides a general description of the requirement;

Part 2 Offeror Instructions: provides the instructions applicable to the clauses and conditions of the RFSO;

Part 3 Offer Preparation Instructions: provides offerors with instructions on how to prepare their offer to address the evaluation criteria specified;

Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria which must be addressed in the offer and the basis of selection;

Part 5 Certifications: includes the certifications to be provided;

Part 6 Security, Financial and Insurance Requirements: includes specific requirements that must be addressed by offerors; and

Part 7 7A, Standing Offer, and 7B, Resulting Contract Clauses:

7A, includes the Standing Offer containing the offer from the Offeror and the applicable clauses and conditions;

7B, includes the clauses and conditions which will apply to any contract resulting from a call-up made pursuant to the Standing Offer.

The Annexes include the Basis of Payment, Certifications, Complete list of each individual who is currently on the Bidder's Board of Directors and Specification.

2. Summary

The Department of National Defence (DND) has a requirement for the establishment of a Regional Individual Standing Offer (RISO). This Standing Offer comprises the furnishing of all labour, materials, tools and equipment required to conduct placement and repairs of asphalt pavement in various areas of CFB Gagetown, Oromocto, New Brunswick. The work will be performed on an as and when required basis, during the period of April 1, 2014 to March 31, 2016. All work is to be completed in accordance with the Specification attached Annex "D".

This agreement is subject to the provisions of the Agreement on Internal Trade.

3. Debriefings

After issuance of a standing offer, offerors may request a debriefing on the results of the request for standing offers. Offerors should make the request to the Standing Offer Authority within 15 working days of receipt of notification that their offer was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

PART 2 - OFFEROR INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the Request for Standing Offers (RFSO) by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Offerors who submit an offer agree to be bound by the instructions, clauses and conditions of the RFSO and accept the clauses and conditions of the Standing Offer and resulting contract(s).

The 2006 (2013-06-01) Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the RFSO.

1.1 SACC Manual clauses

SACC Manual clause M0019T (2007-05-25) Firm Prices and/or Rates

2. Submission of Offers

Offers must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the Request for Standing Offers.

Offers by facsimile will be accepted. Facsimile Number is (506) 636-4376.

3. Enquiries - Request for Standing Offers

All enquiries must be submitted in writing to the Standing Offer Authority no later than five (5) calendar days before the Request for Standing Offers (RFSO) closing date. Enquiries received after that time may not be answered.

Offerors should reference as accurately as possible the numbered item of the RFSO to which the enquiry relates. Care should be taken by offerors to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that offerors do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all offerors. Enquiries not submitted in a form that can be distributed to all offerors may not be answered by Canada.

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4. Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in New Brunswick.

Offerors may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their offer, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the offerors.

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PART 3 - OFFER PREPARATION INSTRUCTIONS

1. Offer Preparation Instructions

Section I: Financial Offer

Offerors must submit their financial offer in accordance with “Annex "A", Basis of Payment". The total amount of Goods and Services Tax or Harmonized Sales Tax must be shown separately, if applicable.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

Offers will be assessed in accordance with the entire requirement of the Request for Standing Offers, including the financial evaluation criteria.

1.1 Financial Evaluation

1.1.1 Offerors will be evaluated on the basis of the lowest overall Total Estimated Amount in Canadian dollars, the Harmonized Sales Tax (HST) excluded. The Total Evaluated Price will be calculated using the estimated usage figures on the Pricing Schedule (See Annex "A"). Offerors are required to bid on all line items in the Pricing Schedule or their offer may be considered non-responsive.

2. Basis of Selection

2.1 An offer must comply with the requirements of the Request for Standing Offers to be declared responsive. The responsive offer with the lowest evaluated price will be recommended for issuance of a standing offer.

PART 5 - CERTIFICATIONS

Offerors must provide the required certifications to be issued a standing offer. Canada will declare an offer non-responsive if the required certifications are not completed and submitted as requested.

Compliance with the certifications offerors provide to Canada is subject to verification by Canada during the offer evaluation period (before issuance of a standing offer) and after issuance of a standing offer. The Standing Offer Authority will have the right to ask for additional information to verify the Offerors' compliance with the certifications before issuance of a standing offer. The offer will be declared non-responsive if any certification made by the Offeror is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications or to comply with the request of the Standing Offer Authority for additional information will also render the offer non-responsive.

1. Mandatory Certifications Required Precedent to Issuance of a Standing Offer

1.1 Code of Conduct and Certifications - Related documentation

1.1.1 By submitting an offer, the Offeror certifies, for himself and his affiliates, to be in compliance with the Code of Conduct and Certifications clause of the Standard instructions. The related documentation hereinafter mentioned will help Canada in confirming that the certifications are true. By submitting an offer, the Offeror certifies that it is aware, and that its affiliates are aware, that Canada may request additional information, certifications, consent forms and other evidentiary elements proving identity or eligibility. Canada may also verify the information provided by the Offeror, including the information relating to the acts or convictions specified herein, through independent research, use of any government resources or by contacting third parties. Canada will declare non-responsive any offer in respect of which the information requested is missing or inaccurate, or in respect of which the information contained in the certifications is found to be untrue, in any respect, by Canada. The Offeror and any of the Offerors affiliates, will also be required to remain free and clear of any acts or convictions specified herein during the entire period of the Standing Offer and any call-ups made against the Standing Offer.

Offerors who are incorporated, including those submitting offers as a joint venture, must provide with their offer or promptly thereafter a complete list of names of all individuals who are currently directors of the Offeror. Offerors submitting offers as sole proprietorship, including those submitting offers as a joint venture, must provide the name of the owner with their offer or promptly thereafter. Offerors submitting offers as societies, firms, partnerships or associations of persons do not need to provide lists of

names. If the required names have not been received by the time the evaluation of offers is completed, Canada will inform the Offeror of a time frame within which to provide the information. Failure to comply will render the offer non-responsive. Providing the required names is a mandatory requirement for issuance of a standing offer and award of a contract.

Canada may, at any time, request that an Offeror provide properly completed and Signed Consent Forms (Consent to a Criminal Record Verification form- PWGSC-TPSGC 229) (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html>) for any or all individuals aforementioned within the time specified. Failure to provide such Consent Forms within the time period provided will result in the offer being declared non-responsive.

2. Additional Certifications Precedent to Issuance of Standing Offer

The certifications listed in **Annex “B” Certifications** should be completed and submitted with the offer, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Standing Offer Authority will so inform the Offeror and provide the Offeror with a time frame within which to meet the requirement. Failure to comply with the request of the Standing Offer Authority and meet the requirements within that time period will render the offer non-responsive.

PART 6 - INSURANCE REQUIREMENTS

1. Insurance Requirements

The Offeror must provide a letter from an insurance broker or an insurance company licensed to operate in Canada stating that the Offeror, if issued a standing offer as a result of the request for standing offer, can be insured in accordance with the Insurance Requirements specified in **Annex B**. If the information is not provided in the offer, the Standing Offer Authority will so inform the Offeror and provide the Offeror with a time frame within which to meet the requirement. Failure to comply with the request of the Standing Offer Authority and meet the requirement within that time period will render the offer non-responsive

PART 7 - STANDING OFFER AND RESULTING CONTRACT CLAUSES

A. STANDING OFFER

1. Offer

1.1 The Offeror offers to fulfill the requirement in accordance with the Specification in Annex "D".

2. Standard Clauses and Conditions

All clauses and conditions identified in the Standing Offer and resulting contract(s) by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

2.1 General Conditions

2005 (2012-11-19) General Conditions - Standing Offers - Goods or Services, apply to and form part of the Standing Offer.

3. Term of Standing Offer

3.1 Period of the Standing Offer

The period for making call-ups against the Standing Offer is from April 1, 2014 to March 31, 2016.

4. Authorities

4.1 Standing Offer Authority

The Standing Offer Authority is:

Gisele Doucet
Public Works and Government Services Canada
Acquisitions Branch
Real Property Contracting
189 Prince William, Room 421
Saint John, N.B.
E2L 2B9

Telephone: (506) 636-4541

Facsimile: (506) 636-4376

E-mail address: gisele.doucet@pwgsc.gc.ca

The Standing Offer Authority is responsible for the establishment of the Standing Offer, its administration and its revision, if applicable. Upon the making of a call-up, as Contracting Authority, he is responsible for any contractual issues relating to individual call-ups made against the Standing Offer by any Identified User.

4.2 Project Authority

The Project Authority for the Standing Offer is identified in the call-up against the Standing Offer.

The Project Authority is the representative of the department or agency for whom the Work will be carried out pursuant to a call-up against the Standing Offer and is responsible for all the technical content of the Work under the resulting Contract.

4.3 Offeror's Representative

Name: _____

Telephone: () _____

Fax: () _____

E-mail: _____

5. Identified Users

The Identified User authorized to make call-ups against the Standing Offer is: Department of National Defence.

6. Call-up Instrument

The Work will be authorized or confirmed by the Identified User(s) using form CF942.

7. Limitation of Call-ups

Individual call-ups against the Standing Offer must not exceed \$60,000.00 (Harmonized Sales Tax included).

8. Financial Limitation

The total cost to Canada resulting from call-ups against the Standing Offer must not exceed the sum of \$575,000.00 (Harmonized Sales Tax extra) unless otherwise authorized in writing by the Standing Offer Authority. The Offeror must not perform any work or services or supply any articles in response to call-ups which would cause the total cost to Canada to exceed the said sum, unless an increase is so authorized.

The Offeror must notify the Standing Offer Authority as to the adequacy of this sum when 75 percent of this amount has been committed, or 4 months before the expiry date of the Standing Offer, whichever comes first. However, if at any time, the Offeror considers that the said sum may be exceeded, the Offeror must promptly notify the Standing Offer Authority.

9. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- a) the call up against the Standing Offer, including any annexes;
- b) the articles of the Standing Offer;
- c) the general conditions 2005 (2012-11-19), General Conditions - Standing Offers - Goods or Services
- d) Supplemental General Conditions 2010C (2013-06-27), General Conditions - Services (Medium Complexity);
- e) Specifications and drawings;
- f) Annex "A", Basis of Payment;
- g) Any amendment issued or any allowable offer revision received before the date and time set for solicitation closing
- h) the Offeror's offer

10. Certifications

10.1. Compliance

Compliance with the Certifications provided by the Offeror is a condition of authorization of the Standing Offer and subject to verification by Canada during the term of the Standing Offer and of any resulting contract that would continue beyond the period of the Standing Offer. In the event that the Offeror does not comply with any certification or it is determined that any certification made by the Offeror in its offer is untrue, whether made knowingly or unknowingly, Canada has the right to terminate any resulting contract for default and set aside the Standing Offer.

11. Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in Prince Edward Island.

12. Estimates

SACC Manual clause M3800C (2006-08-15) Estimates

13. Insurance Requirements

The Contractor must comply with the insurance requirements specified in Annex B . The Contractor must maintain the required insurance coverage for the duration of the Standing Offer. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Standing Offer.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Standing Offer and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Standing Offer Authority within seven (7) days after request form the Standing Offer Authority and prior to award of the Standing Offer, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. Coverage must be placed with an Insurer licensed to carry out business in Canada. The Contractor must, if requested by the Standing Offer Authority, forward to Canada a certified true copy of all applicable insurance policies.

B. RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from a call-up against the Standing Offer.

1. Statement of Work

The Contractor must perform the Work described in the call-up against the Standing Offer.

2. Standard Clauses and Conditions

2.1 General Conditions

Supplemental General Conditions 2010C (2013-06-27), General Conditions - Services (Medium Complexity); apply to and form part of the Contract.

3. Term of Contract

3.1 Period of the Contract

The Work must be completed in accordance with the call-up against the Standing Offer.

4. Payment

4.1 Basis of Payment

Refer to "Annex "A", Basis of Payment"

4.2 Limitation of Price

SACC Manual clause C6000C (2011-05-16) Limitation of Price

4.3 Single Payment

SACC Manual clause H1000C (2008-05-12) Single Payment

5. Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

2. Invoices must be distributed as follows:

(a) The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

ANNEX A
BASIS OF PAYMENT
PRICING SCHEDULE

Item	Description, Class of Labour, Material or Plant	Unit of Measure	Estimated Hrs / Qty	Unit Price		Estimated Total Price	
				\$	€	\$	€
1	Removal of deteriorated asphalt and replacement with 2 layers of 38 mm - 76 mm total depth type D surface course HMAC up to 1 m ² in area	m ²	50	\$ _____	€ _____	\$ _____	€ _____
2	Removal of deteriorated asphalt and replacement with 2 layers of 38 mm - 76 mm total depth type D surface course HMAC from 1 m ² to 10 m ² in area	m ²	50	\$ _____	€ _____	\$ _____	€ _____
3	Removal of deteriorated asphalt and replacement with 1 layer of 38 mm type B base course HMAC and 1 layer of 38 mm type D surface course HMAC - 76 mm total depth from 10 m ² to 100 m ² in area	m ²	200	\$ _____	€ _____	\$ _____	€ _____
4	Removal of deteriorated asphalt and replacement with 1 layer of 38 mm type B base course HMAC and 1 layer of 38 mm type D surface course HMAC - 76 mm total depth greater than 100 m ² in area	m ²	200	\$ _____	€ _____	\$ _____	€ _____
5	Placing one layer minimum thickness 38 mm overlay or skin patching of Type E, 12.5 mm aggregate asphalt	Tonne	300	\$ _____	€ _____	\$ _____	€ _____
6	Placing one layer minimum thickness 38 mm overlay or skin patching of Type E, 9.5 mm aggregate asphalt	Tonne	150	\$ _____	€ _____	\$ _____	€ _____
7	Grade existing granular base, place 1 layer of 38 mm type B base course HMAC and 1 layer of 38 mm type D surface course HMAC - 76 mm total depth	m ²	2,000	\$ _____	€ _____	\$ _____	€ _____
8	Excavation and removal of soil to be measured in cubic meters in original condition.	m ³	300	\$ _____	€ _____	\$ _____	€ _____

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9	Crushed rock sub-base to be measured in cubic meters compacted in place	m ³	100	\$ _____	\$ _____
10	Crushed rock base to be measured in cubic meters compacted in place	m ³	200	\$ _____	\$ _____
11	Concrete curb removal and disposal to be measured in linear meters	m	100	\$ _____	\$ _____
12	Concrete curb installation to be measured in linear meters	m	100	\$ _____	\$ _____
13	Repair/reset manholes and catch basins including asphalt	Unit	5	\$ _____	\$ _____
<u>Total Estimated Amount used for Evaluation</u>					\$ _____

Note: The estimated quantity entered in column four for each item is an estimate only for services as and when requested and does not infer that all the quantities for that item will be utilized or that the quantities may not be exceeded.

ANNEX "B"

Certifications Precedent to Standing Offer Award

1. Workers' Compensation Certification - Letter of Good Standing

The Bidder must have an account in good standing with the applicable provincial or territorial Workers' Compensation Board.

2. Equipment List

Bidder must provide, upon request from the Contracting Authority, a list of equipment. Equipment is subject to inspection and approval by the Department of National Defence (DND) prior to award of Standing Offer.

3. Proof of liability insurance for a minimum amount of two million (\$2,000,000) as specified below.

INSURANCE REQUIREMENTS

Commercial General Liability Insurance

1. The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, **but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.**
2. The Commercial General Liability policy must include the following:
 - (a) Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by the Department of National Defence.
 - (b) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
 - (c) Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.

-
- (d) **Personal Injury:** While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
- (e) **Cross Liability/Separation of Insureds:** Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
- (f) **Blanket Contractual Liability:** The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
- (g) **Employees and, if applicable, Volunteers** must be included as Additional Insured.
- (h) **Employers' Liability** (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
- (i) **Broad Form Property Damage including Completed Operations:** Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
- (j) **Notice of Cancellation:** The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
- (k) If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.

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ANNEX C

COMPLETE LIST OF EACH INDIVIDUAL WHO IS CURRENTLY ON THE BIDDER'S BOARD OF DIRECTORS

***NOTE TO OFFERORS
WRITE DIRECTOR'S SURNAMES AND GIVEN NAMES IN BLOCK LETTERS***

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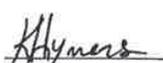
ANNEX D
SPECIFICATION



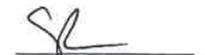
**DEPARTMENT OF NATIONAL DEFENCE
5 ENGINEER SERVICES SQUADRON
5 ENGINEER SERVICES UNIT
CFB GAGETOWN**

SPECIFICATION

**STANDING OFFER AGREEMENT
PLACEMENT AND REPAIR OF ASPHALT PAVING
CFB GAGETOWN
01 APRIL 2014 TO 31 MARCH 2016**


Designed by 
Fire Inspector


Project O


Engineering O

PF No:
Job No: L-G2-9302/162

Date: 2013-06-28

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33 05 14	Manholes and Catch Basins	2

- 1.1 Description of Work .1 The work covered under this Standing Offer Agreement comprises the furnishing of all labour, materials, tools and equipment required to conduct placement and repairs of asphalt pavement in various areas of CFB Gagetown when requested on Form CF 942, Call-Up Against a Standing Offer and as specified herein.
- 1.2 Duration of Contract .1 This Standing Offer will extend from 01 April 2014 to 31 March 2016.
- 1.3 Qualifications .1 Contractor shall provide to PWGSC proof of Insurance from the WorkSafeNB and Compensation Commission of New Brunswick (WHSCC).
- 1.4 Engineer .1 The Engineer, as defined and stated in this specification will be the Commanding Officer of 5 Engineer Services Unit or a designated representative.
- The address of the Engineer is:
- Contracts Office
5 Engineer Services Unit
Building B-18
CFB/ASU Gagetown
PO Box 17000 Stn Forces
Oromocto, NB
E2V 4J5
- Tel: (506) 422-2000 ext. 2677
Fax: (506) 422-1248.
- 1.5 Documents Required .1 Maintain at the job site, one copy each of the following:
.1 Specifications; and
.2 Form CF - 942 - Call-Up Against a Standing Offer.
- 1.6 Liability Insurance .1 The Contractor shall provide proof of Liability Insurance for the amount of Two Million Dollars (\$2,000,000.00) to PWGSC prior to award of this Standing Offer Agreement.
-

1.7 Measurement for .1
Payment

All work described in this specification will be paid for on a unit price basis. The Contractor will submit the prices for the following in accordance with this specification. Such prices will include transportation (travel time to and from the contractors base of operation will be included in the rates provided), expenses and profit:

.1 Removal of deteriorated asphalt and replacement with 2 layers of 38 mm - 76 mm total depth type D surface course HMAC up to 1 m² in area, **Estimated quantity = 50 m²;**

.2 Removal of deteriorated asphalt and replacement with 2 layers of 38mm - 76mm total depth type D surface course HMAC from 1 m² to 10 m² in area, **Estimated quantity = 50 m²;**

.3 Removal of deteriorated asphalt and replacement with 1 layer of 38 mm type B base course HMAC and 1 layer of 38mm type D surface course HMAC - 76 mm total depth from 10 m² to 100 m² in area, **Estimated quantity = 200 m²;**

.4 Removal of deteriorated asphalt and replacement with 1 layer of 38mm type B base course HMAC and 1 layer of 38 mm type D surface course HMAC - 76mm total depth greater than 100 m² in area, **Estimated quantity = 200 m²;**

.5 Placing one layer minimum thickness 38mm overlay or skin patching of Type E, 12.5 mm aggregate asphalt, **Estimated quantity = 300 tonne;**

.6 Placing one layer minimum thickness 38 mm overlay or skin patching of Type E, 9.5 mm aggregate asphalt, **Estimated Quantity = 150 tonne;**

.7 Grade existing granular base, place 1 layer of 38mm type B base course HMAC and 1 layer of 38mm type D surface course HMAC - 76mm total depth, **Estimated quantity = 2000 m²;**

.8 Excavation and removal of soil to be measured in cubic meters in original condition, **Estimated quantity = 300 m³;**

.9 Crushed rock sub-base to be measured in cubic meters compacted in place, **Estimated quantity = 100 m³;**

.10 Crushed rock base to be measured in cubic meters compacted in place, **Estimated quantity = 200 m³;**

.11 Concrete curb removal and disposal to be measured in linear meters, **Estimated quantity = 100 m;**

.12 Concrete curb installation to be measured in linear meters, **Estimated quantity**

- 1.7 Measurement for .1 (Cont'd)
Payment .12 (Cont'd)
(Cont'd) **= 100 m; and**
.13 Repair/reset manholes and catch basins including asphalt, **Estimated quantity = 5 units.**
- .2 The quantities listed in para 1.7.1 are estimated quantities only and may be increased or decreased in accordance with the requirements of the work.
- .3 Payment will be for the actual quantity of material supplied and work performed.
- .4 The schedule of estimated quantities listed are for the purpose of comparing bids only and the Contractor will make no claim for loss of anticipated profits as a result of differences between the quantities listed and the actual quantities used.
- .5 Where exceptional quantities of work is required within a close proximity, unit prices may be negotiated.
- 1.8 Contractor's .1 Access to the site of work to be as directed
Use of Site by the Engineer.
- .2 Do not unreasonably encumber the site with materials or equipment.
- .3 Move stored products or equipment which interfere with operations of Engineer or other Contractors.
- .4 Obtain and pay for use of additional storage or work areas needed for operations.
- .5 Base policy states when vehicles will be parked, they will be backed into a parking space or risk being towed.
- 1.9 Contractor .1 All contractor employees will carry
Passes authorized Contractor Pass on their persons when employed on DND property. Such passes will be produced when requested by the Military police, Commissionaires, Security Guards and persons in authority.

1.9 Contractor
Passes
(Cont'd)

- .2 The Contractor will complete an application form for contractor passes for each individual. The Contractor will accompany the employee to the Military Police Identification Section for the issuance of pass.
- .3 A photocopy of passes is to be provided to the Engineer.
- .4 The Contractor will ensure Contractor passes are recovered from employees who cease to be employed on DND property. Such passes shall be returned to the Military Police Identification Section.

1.10 Security
Clearances

- .1 The Contractor shall maintain an up to date roster of all employees involved in the contract including managers, supervisors and labourers. This roster shall be made available to the Engineer upon demand.
- .2 The Contractor shall provide proof of the information contained within the roster to the Engineer upon demand. The Engineer reserves the right to have removed from the site those personnel who do not meet security requirements, as laid down by the Military Police Section.

1.11 Codes and
Standards

- .1 Perform work in accordance with the latest amended National Building Code of Canada (NBC), and any other code of Provincial or Local Application provided that in any case of conflict or discrepancy, the more stringent requirements will apply.
- .2 Meet or exceed requirements of specified standards, codes and referenced documents.

1.12 Setting Out of
Work

- .1 Assume full responsibility for and execute complete layout of work.
 - .2 Provide devices needed to lay out and construct work.
 - .3 Supply such devices as straight edges and templates required to facilitate Engineer's inspection of work.
-

1.12 Setting Out of Work
(Cont'd)

.4 Supply stakes and other survey markers required for laying out work.

1.13 Sanitary Facilities

.1 Provide sanitary facilities for work force in accordance with governing regulations and ordinances.

1.14 Clean Up

.1 Upon completion of the daily work, the Contractor will remove all materials no longer required from the site and leave the site in a clean and tidy condition to the complete satisfaction of the Engineer.

.2 On completion of each call-up against Standing Offer, the Contractor will clean up and remove all signs of their presence from areas used by them for storage and/or maintenance.

1.15 Work Requisition

.1 The work to be performed on Form CF - 942, Call-Up Against a Standing Offer when ordered by the Engineer is as follows:

.1 The Contractor will generally provide service during regular working hours on a 8 hour per day, 5 days per week basis (8:00 am to 4:30 pm, Monday to Friday inclusive). Some work may be required on weekends or evenings if necessary;

.2 The Contractor will advise the Engineer of the telephone number or location at which they or their representative may be contacted at all times;

.3 The Contractor, on receipt of an acceptance of Tender will be advised by the Engineer in writing, the names of persons authorized to request service. Work undertaken at the request of others will be entirely at the Contractor's risk with regard to payment;

.4 The Contractor will not refuse any call for service required by the Engineer and will respond within 48 hours of any request for service;

.5 When service is requested, this person will notify the Contractor and detail the requirement. Service will be requisitioned on Form CF - 942, Call-Up Against a Standing Offer. This form will detail the requirement

- 1.15 Work Requisition (Cont'd) .1 (Cont'd)
.5 (Cont'd) and will be signed by the Engineer or an authorized representative. Two (2) copies of this form will be given to the Contractor; and
.6 The Contractor will proceed to the location of the job and carry out the work. On completion of the work detailed on Form CF - 942 , the Contractor will report to the Engineer and have the two copies of the Form CF - 942 initialed, indicating the work has been satisfactorily completed. The Contractor will retain one copy of Form CF - 942 and return the other signed and dated copy to the Engineer with the original and one copy of the invoice on completion of the work.
- 1.16 Workmanship .1 Workmanship will be of a uniformly high standard and in accordance with generally accepted trade practice. Mediocre or inferior workmanship will be replaced by work of first class quality without cost to DND when so ordered by the Engineer.

- 1.1 References .1 Canada Labour Code, Part 2, Canada Occupational Safety and Health Regulations.
- .2 Province of New Brunswick Occupational Health and Safety Act, S.N.B. 1983.
- .3 National Building Code of Canada, 2005.
- 1.2 Regulatory Requirements .1 Do work in accordance with the safety measures of the National Building Code of Canada 2005, the Canada Labour Code Part 2, the New Brunswick Occupational Health and Safety Act and WorkSafeNB provided that in any case of conflict or discrepancy the more stringent requirements shall apply.
- 1.3 Responsibility .1 Contractor is responsible for the health and safety of all persons on site. Contractor is also responsible for the protection of property, persons and the environment on or adjacent to the site in so far as the work may affect these.
- .2 Contractor and all contractor's employees are to comply with all safety requirements specified in the Contract Documents as well as all applicable federal, provincial and local statutes, regulations, ordinances and with Contractor's site-specific Health and Safety Plan.
- .3 As outlined in the Canada Labour Code Part 2, the Contractor is responsible to provide a site-specific Health and Safety Plan that includes a Confined Space Entry Procedure in the event that work is deemed by the Engineer to be in a confined space. Work is not to begin until this Health and Safety Plan is submitted and approved by the Engineer.
- .4 5 Engineering Services Unit employs a Lock Out/Tag Out program to prevent work related injuries due to electrical or mechanical systems being energized while personnel are working in or around these systems. The Contractor must respect these locks and tags when encountered. Do not forcibly remove these locks and/or tags at any time. If the Contractor requires that these be removed to perform work, a request is to be made to the Engineer for such removal.
-

- 1.3 Responsibility .5
(Cont'd)
- As per the Canada Labour Code Part 2, it is the Contractor's responsibility to employ their own Lock Out/Tag Out program to ensure that equipment is not energized by other personnel while they are working in or around equipment.
- .6 It is the Contractor's responsibility to ensure that all their employees are provided all Personal Protective Equipment (PPE) necessary to perform all work. Hard hats and safety glasses are to worn at all times.
- 1.4 Unforeseen Hazards .1
- Should any unforeseen or peculiar safety-related factor, hazard, or condition become evident during performance of work, the Contractor must have procedures in place to facilitate the Employee's Right to Refuse Work in accordance with Acts and Regulations of New Brunswick. The Contractor is to advise the Engineer verbally and in writing of any employee who exercises this right.
- 1.5 Correction of Non-Compliance .1
- Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Engineer.
- .2 Provide Engineer with written report of action taken to correct non-compliance of health and safety issues identified.
- .3 Engineer may stop work if non-compliance of health and safety regulations is not corrected.
- 1.6 Work Stoppage .1
- Give precedence to safety and health of public and site personnel and protection of environment over cost and schedule considerations for work.

- 1.1 Reporting Fires .1 Know location of nearest fire alarm box and telephone, including emergency phone number.
- .2 Report immediately all fire incidents to Fire Department as follows:
.1 telephone 911.
- .3 When reporting fire by telephone, give location of fire, name or number of building and be prepared to verify the location.
- 1.2 Interior and Exterior Fire Protection and Alarm Systems .1 Fire protection and alarm system will not be:
.1 obstructed;
.2 shut-off; and
.3 left inactive at end of working day or shift without authorization from Fire Chief.
- .2 Fire hydrants, standpipes and hose systems will not be used for other than fire-fighting purposes unless authorized by Fire Chief.
- 1.3 Fire Extinguishers .1 Supply fire extinguishers, as scaled by Fire Chief, necessary to protect work in progress and Contractor's physical plant on site.
- 1.4 Blockage of Roadways .1 Advise Fire Chief of any work that would impede fire apparatus response. This includes violation of minimum overhead clearance, as prescribed by Fire Chief, erecting of barricades and digging of trenches.
- 1.5 Smoking Precautions .1 Observe smoking regulations at all times.
- 1.6 Rubbish and Waste Materials .1 Rubbish and waste materials are to be kept to a minimum.
- .2 Burning of rubbish is prohibited.
- .3 Removal:
.1 Remove all rubbish from work site at end of work day or shift or as directed.
-

1.6 Rubbish and
Waste Materials
(Cont'd)

- .4 Storage:
 - .1 Store oily waste in approved receptacles to ensure maximum cleanliness and safety.
 - .2 Deposit greasy or oily rags and materials subject to spontaneous combustion in approved receptacles and remove.

1.7 Flammable and
Combustible Liquids

- .1 Handling, storage and use of flammable and combustible liquids are to be governed by the current National Fire Code of Canada.
- .2 Flammable and combustible liquids such as gasoline, kerosene and naphtha will be kept for ready use in quantities not exceeding 45 litres provided they are stored in approved safety cans bearing Underwriters' Laboratory of Canada or Factory Mutual seal of approval. Storage of quantities of flammable and combustible liquids exceeding 45 litres for work purposes requires permission of Fire Chief.
- .3 Transfer of flammable and combustible liquids is prohibited within buildings or jetties.
- .4 Transfer of flammable and combustible liquids will not be carried out in vicinity of open flames or any type of heat-producing devices.
- .5 Flammable liquids having a flash point below 38° C such as naphtha or gasoline will not be used as solvents or cleaning agents.
- .6 Flammable and combustible waste liquids, for disposal, will be stored in approved containers located in a safe ventilated area. Quantities are to be kept to a minimum and Fire Department is to be notified when disposal is required.

1.8 Hazardous
Substances

- .1 Work entailing use of toxic or hazardous materials, chemicals and/or explosives, or otherwise creating hazard to life, safety or health, will be in accordance with National Fire Code of Canada.
- .2 Obtain from Fire Chief a "Hot Work" permit for work involving welding, burning or use of blow torches and salamanders, in buildings or facilities.

1.8 Hazardous
Substances
(Cont'd)

- .3 When Work is carried out in dangerous or hazardous areas involving use of heat, provide fire watchers equipped with sufficient fire extinguishers. Determination of dangerous or hazardous areas along with level of protection necessary for Fire Watch is at discretion of the Fire Chief. Contractors are responsible for providing fire watch service for work on a scale established and in conjunction with Fire Chief at pre-work conference.
- .4 Where flammable liquids, such as lacquers or urethanes are to be used, proper ventilation will be assured and all sources of ignition are to be eliminated. Fire Chief is to be informed prior to and at cessation of such work.

1.9 Questions
and/or
Clarification

- .1 Direct any questions or clarification on Fire Safety in addition to above requirements to Fire Chief through the Engineer.

1.10 Fire
Inspection

- .1 Site inspections by Fire Chief will be coordinated through Engineer.
- .2 Allow Fire Chief unrestricted access to work site.
- .3 Co-operate with Fire Chief during routine fire safety inspection of work site.
- .4 Immediately remedy all unsafe fire situations observed by Fire Chief.

- 1.1 General .1 Contractor will take all reasonable steps to ensure that they and their employees have complied with all pertinent legislation and have protected the environment.
- 1.2 Fires .1 Fires and burning of rubbish on site not permitted.
- 1.3 Disposal of Wastes .1 Do not bury rubbish and waste materials on site unless approved by Engineer.
.2 Do not dispose of waste or volatile materials, such as mineral spirits, oil or paint thinner into waterways, storm or sanitary sewers.
- 1.4 Spill Protection .1 The Contractor must have adequate clean up materials for any potential hazardous materials used in the completion of the work (ie. Foams, fuels, oils, lubricants, etc).

- 1.1 Reference Standard .1 Regulate traffic in accordance with The Manual of Uniform Traffic Control Devices for Canada (2000) (UTCD) distributed by Transportation Association of Canada, except where specified otherwise.
- 1.2 Protection of Public Traffic .1 Comply with requirements of Acts and By-Laws in force for regulation of traffic or use of roadways upon or over which it is necessary to carry out work or haul materials or equipment.
- .2 When working on travelled way:
.1 Place equipment in position to present minimum of interference and hazard to travelling public;
.2 Keep equipment units as close together as working conditions will permit and preferably on same side of travelled way; and
.3 Do not leave equipment on travelled way overnight.
- .3 Do not close any lanes of road or highway without approval of Engineer. Before re-routing traffic erect suitable signs and devices in accordance with instructions contained in UTCD. Provide sufficient crushed gravel to ensure a smooth riding surface during work.
- .4 Keep travelled way well graded, free of pot holes and of sufficient width that required number of lanes of traffic may pass.
- .5 Provide and maintain reasonable road access and egress to property fronting along or in vicinity of work under Contract unless approved otherwise by Engineer.
- 1.3 Informational Devices and Warning Devices .1 Provide and maintain signs and other required to indicate construction activities or other temporary and unusual conditions resulting from project work which may require road user response.
- .2 Supply and erect signs, delineators, barricades and miscellaneous warning devices as specified in Part D, Temporary Conditions Signs and Devices, of manual titled UTCD.

- 1.3 Informational Devices and Warning Devices (Cont'd)
- .3 Place signs and other devices in locations recommended in UTCD manual.
 - .4 Meet with Engineer prior to commencement of work to prepare list of signs and other devices required for project.
 - .5 Continually maintain traffic control devices in use by:
 - .1 Checking signs daily for legibility, damage, suitability and location. Clean, repair or replace to ensure clarity and reflectance; and
 - .2 Removing or covering signs which do not apply to conditions existing from day to day.
- 1.4 Control of Public Traffic
- .1 Provide flag persons, trained in accordance with and properly equipped as specified in UTCD manual in following situations:
 - .1 When public traffic is required to pass working vehicles or equipment which may block all or part of travelled roadway;
 - .2 When it is necessary to institute one-way traffic system through construction area or other blockage where traffic volumes are heavy, approach speeds are high and traffic signal system is not in use;
 - .3 When workers or equipment are employed on travelled way over brow of hills, around sharp curves or at other locations where on-coming traffic would not otherwise have adequate warning;
 - .4 Where temporary protection is required while other traffic control devices are being erected or taken down;
 - .5 For emergency protection when other traffic control devices are not readily available; and
 - .6 In situations where complete protection for workers, working equipment and public traffic is not provided by other traffic control devices.

- 1.1 Scope of Work .1 This section specifies the requirements for the removal of deteriorated asphalt and granular base as designated by the Engineer.
- 1.2 References .1 ASTM D1557-02e1 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³(2,700 kN-m/m³))
- 1.3 Measurement for Payment .1 Measurement for payment for this section is included in Para 1.7,Section 00 21 13.
- 1.4 Protection .1 Protect existing items designated to remain in event of damage. Immediately replace such items or make repairs to approval of Engineer and at no additional cost to Engineer.
- 1.5 Preparation .1 Inspect site and verify with Engineer, areas designated for removal and installation of new asphalt.
- .2 Locate and protect utility lines. Preserve in operating condition active utilities traversing site.
- 1.6 Removal .1 Remove items as indicated by Engineer.
- .2 Do not disturb adjacent items designated to remain in place.
- .3 In removal of asphalt areas:
- .1 Square up adjacent surfaces to remain by saw cutting or other approved method;
- .2 Protect adjacent joints and load transfer devices; and
- .3 Protect underlying granular materials.
- .4 Remove soft or other unstable materials that will not compact properly.
- .5 Backfill to underside of pavement level with granular base material approved by the Engineer.
-

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1.6 Removal .6 Compact to 98% Modified Proctor Density ASTM
 (Cont'd)

END

- 1.1 Description of Work .1 This section specifies requirements for constructing Portland cement concrete curbs and gutters to match adjacent curbs.
- 1.2 Related Work .1 Asphalt Surface Treatment: Section 02548.
- 1.3 References .1 CAN/CSA - A23.1/A23.2-04 Concrete Materials and Methods of Concrete Construction.
- .2 ASTM C260-06 Standard Specification for Air-Entraining Admixtures for Concrete.
- .3 ASTM D1751-04(2008) Specification for Preformed Expansion Joint Fillers For Concrete Paving and Structural Construction (Non Extruding and Resilient Bituminous Types).
- .4 ASTM D260-86(2001) Specification for Boiled Linseed oil.
- .5 ASTM D698-07e1 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600kN-m/m³)).
- .6 CAN/CSA-A3000-03 Portland Cement.
- .7 CAN/CSA-S269.3-M92(R2008) Concrete Formwork.
- 1.4 Materials .1 Concrete: concrete mix designed to produce 35 MPa minimum compressive strength at 28 days and containing 20 mm maximum size coarse aggregate, with water/cement ratio to CAN/CSA-A23.1/A23.2, Table 7, for Class C2 exposure and 80 mm slump at time and point of deposit. Air entrainment 5 to 8%, minimum cement content 335 kg/m³.
- .2 Joint filler: to ASTM D1751-04(2008), thickness 20 mm preformed, non-extruding, resilient, bituminous type.
- .3 Granular base: to Section 02548.
- .4 Curing compound: to CAN/CSA-A23.1/A23.2.
- .5 Boiled linseed oil: to ASTM D260-86.
-

-
- 1.4 Materials
(Cont'd)
- .6 Non-staining mineral type form release agent: chemically active release agents containing compounds that react with free lime to provide water soluble soap.
 - .7 Formwork lumber:plywood and wood formwork material to CAN/CSA-S269.3.
 - .8 Admixtures:
 - .1 Air-entraining Admixture to ASTM C260-06.
 - .9 Concrete aggregates: to CAN/CSA-A23.1/A23.2.
- 1.5 Granular Base
- .1 Place granular base material to lines, widths and depths indicated or directed.
 - .2 Compact granular base to at least 98% of maximum density ASTM D698.
- 1.6 Forming
- .1 Form vertical surfaces to full depth using forming material that will not deform under loading by plastic concrete.
 - .2 Securely position forms to required lines and grades.
 - .3 Coat forms with form release agent.
 - .4 Obtain approval of forms before placing concrete.
 - .5 Slip forming may be approved subject to evaluation of mechanical equipment proposed for use.
- 1.7 Concrete
- .1 Do concrete work in accordance with CAN/CSA-A23.1/A23.2 and as specified herein.
 - .2 Level sub-grade, remove unsuitable material and place and compact new material.
 - .3 Finish exposed surfaces to a smooth, uniform finish, free of open texturing and exposed aggregate. Do not work more mortar to surface than required. Do not use neat cement as a drier to facilitate finishing.
-

1.7 Concrete
(Cont'd)

- .4 Wood float finish surface to provide non-skid texture.
- .5 Round edges, including edges of joints, with 10 mm radius edging tool.
- .6 Finish surfaces to within 3 mm in 3 m from line, level or grade as measured with a straight edge placed on surface.
- .7 Cure and protect concrete in accordance with CAN/CSA-A23.1/A23.2.
- .8 Backfill concrete curbs to designated elevations with approved materials and shape to required contours as directed by Engineer.

1.8 Joints

- .1 Install contraction joints at intervals of 3m.
- .2 Install isolation joints to ASTM D1751 along length adjacent to concrete sidewalks.
- .3 Seal joints with approved sealant.

- 1.1 Scope of Work .1 This section covers repairs to asphalt areas as designated by the Engineer by applying a single or double application of asphalt and aggregate to an existing paved surface or a granular base.
- 1.2 References .1 ASTM D5581-07a Standard Test Method for Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus (6 inch - Diameter Specimen).
- .2 CAN/CGSB-16.2-M89 Emulsified Asphalts, Anionic Type, for Road Purposes.
- .3 CAN/CGSB-16.3-M90 Asphalt Cement for Road Purposes.
- .4 ASTM D3203-05 Test Method for Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures.
- .5 Province of New Brunswick, Department of Transportation, Standard Specifications, January 2011.
- 1.3 Source Sampling .1 One week prior to commencing work, inform the Engineer of proposed source of aggregate and provide access for sampling.
- .2 If materials have been tested by an independent testing laboratory within previous two months and have successfully passed tests equal to requirements of this specification, submit test certificates from testing laboratory showing suitability of materials for this project.
- 1.4 Protection .1 Prevent damage to buildings, landscaping, curbs, sidewalks, trees, fences and of adjacent property. Make good any damage.
- 1.5 Protection .1 Keep traffic off newly paved areas until paving has properly set.
- .2 Maintain access to building at all times. Arrange paving schedule so as not to interfere with normal use of premises.
-

- 1.9 Placing and Compacting Granular Base (Cont'd) .5 (Cont'd)
subbase material and compact to specified density.
- 1.10 Asphalt Course .1 All asphalt related work will be executed in accordance with the Province of New Brunswick, Department of Transportation, Standard Specifications, Item No's 259 and 260.
- .2 Apply tack coat to existing asphalt where new asphalt comes in contact with it.
- .3 Place asphalt concrete in maximum compacted thickness of 38 mm.
- 1.11 Joints .1 Bituminous tack coat to full depth as required to exposed fresh vertical surfaces. Remove any broken or loose material.
- .2 Carefully place and compact hot asphaltic material against joints.
- 1.12 Repairs to Lawns .1 Repair all lawn or grassed areas damaged by method of work, to its original condition.

- 1.1 Work Included .1 The work of this section comprises the adjustment and/or repairs to catch basins manholes, gratings and frames and valve access covers as required and as designated by the Engineer.
- 1.2 Materials .1 Precast concrete manhole and catch basins grate rings to CAN/CSA A257 SERIES-03.
- .2 Mortar type: for load bearing, Type M to CSA A179-04.
- .3 Bonding agent: Standard of Acceptance: Albitol, as manufactured by Albert Chemical Sales of Canada Ltd. or equivalent.
- 1.3 Method of Work .1 General:
- .1 Inspect site and verify with Engineer manholes catch basins and valve access covers designated for repair, raise and/or re-adjustment;
- .2 Prior to commencing work, determine location of possible underground piping and utility lines;
- .3 Maintain crowns and cross slopes to provide good surface drainage to catch basin.
- .4 Dispose of excavated materials in area designated by the Engineer;
- .5 Protect work and excavations from water ponding;
- .6 Prevent entrance of excavated and construction materials into storm sewers; and
- .7 Coordinate all work with Engineer for the degree and scope of work required.
- .2 Adjusting tops of existing catch basin:
- .1 Remove all existing gratings, frames and deteriorated masonry;
- .2 Raise units by roughening existing top to ensure proper bond and extend to required elevation with precast concrete grate rings;
- .3 Lower masonry units as required including concrete work where designated by the Engineer and rebuild with new precast concrete to required elevations;
- .4 Excavation lines and depth require Engineer's approval prior to placing new materials; and
- .5 Replace deteriorated masonry with new where directed by the Engineer.
-

- 1.3 Method of Work .3 Valve access cover and manholes:
(Cont'd)
- .1 Raise and/or re-adjust as indicated or as designated by the Engineer.
- .4 Masonry repair:
- .1 Construct units plumb and true to alignment and grade;
 - .2 Catch basin frames shall be set to finish elevation in full bed of mortar;
 - .3 All work to be done "to fit" catch basin frame for accurate fitting and even sitting of screens;
 - .4 Finish interior surface of joints smooth;
 - .5 Do not backfill or pave until grade and alignment has been checked and accepted by the Engineer;
 - .6 Hand place granular material in uniform layers of 150 mm thick or less. Dumping of material directly on top of masonry is not permitted;
 - .7 Place layers uniformly and simultaneously around masonry course;
 - .8 Compact each layer to at least 95% of corrected maximum dry density;
 - .9 Ensure completed joints are restrained by compacting granular material; and
 - .10 All catch basins will be kept free from any accumulation of silt, debris or foreign matters during work progress and upon completion of work in area concerned. Thoroughly clean work area and catch basin.