



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS Á:

Parks Canada Agency
1300 - 635 8 Ave SW
Calgary, AB T2P3M3
Bid Fax: (403) 292-4475

INVITATION TO TENDER

APPEL D'OFFRES

AMENDMENT / MODIFICATION

001

Tender To: Parks Canada Agency

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

Soumission aux: l'Agence Parcs Canada

Nous offrons par la présente de vendre à Sa Majesté la Reine du Chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaries

Issuing Office - Bureau de distribution

Parks Canada Agency
Suite 1300
635 - 8 Ave SW
Calgary, AB T2P3M3

Title-Sujet Trans-Canada Highway Twinning – km 82-88 Yoho National Park		
Solicitation No. - No. de l'invitation 5P420-16-5123/A		Date: August 2, 2016
GETS Reference No. – No de reference de SEAG PW-16-00739080		Amendment No. - N° de la modif. 001
Solicitation Closes:		
at – á 02:00 PM	on – le August 16, 2016	Time Zone - Fuseau horaire MDT - HAR
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>		
Address Inquiries to: - Adresser toute demande de renseignements à : Nathaniel Harrison - nathaniel.harrison@pc.gc.ca		
Telephone No. - No de téléphone (403) 292-4572		Fax No. – No de FAX: (403) 292-4475
Destination of Goods, Services, and Construction: Destinations des biens, services et construction: See Herein – Voir ici		

TO BE COMPLETED BY THE BIDDER (type or print)

Vendor/Firm Name	
Address - Adresse	
Name of person authorized to sign on behalf of the Vendor/Firm Nom de la personne autorisée a signer au nom du fournisseur/ de l'entrepreneur	
Titale - Titre	
Telephone No. - N° de telephone:	_____
Facsimile No. - N° de télécopieur:	_____
Signature	Date

Amendment 1

This amendment has been issued to answer questions from bidders and revise the tender package.

A. Questions

- Q1.** Are there any cross-sections or profile quantities available for this project?
A1. Attached in DSP2.
- Q2.** On drawing S107 section A it says 24 strands across the bottom but if you count them there are 20, please confirm which is correct.
A2. 20 strands is correct.
- Q3.** I would like to make an inquiry regarding the 25mm chamfer on the ends of the concrete barrier. Can this be changed so that all manufacturers who meet the current BC MOT specifications are eligible to provide pricing?
A3. 25mm chamfered edges are required for barrier ends.
- Q4.** In reference section 33 42 13 paragraph 1.1.7 "Measure removal of or plugging of existing culverts under Prime Cost Sum in meters of invert length for each size, type and class of pipe removed and disposed where the location is not coincidental to new culvert". What does the Prime Cost Sum cover? Is it everything associated with the removal of the pipe including asphalt removal, excavation, pipe removal and disposal, backfilling and paving or are all of those activities paid under applicable unit prices?
Q4. The Prime Cost Sum will be used to cover the cost of all items required for the additional works as requested by the Departmental Representative.
- Q5.** In reference to the catch basins for the project, the drawings call for rectangular units and grates per the Alberta Highway Specifications. Is it acceptable to replace these units with round units and grates per the BC Standard Specifications (SP582-02.01 or SP582-02.02)?
A5. Catch basin units and grates as per BC Standard Specifications SP582-02.01 or SP582-02.02 will be permitted.
- Q6.** For delivery of the unassembled Structural Plate, do we ship it to Niblock Pit, same as the CSP?
A6. Storage of unassembled structural plate and CSP culverts will be permitted in Niblock Pit.
- Q7.** On the Civil Drawing C106 at Wildlife Crossing #4 (STA 85 + 950), a note calls for W-Beam Post Barrier to be installed. Can you please provide a length of need for each side of the Highway, I cannot find the item in the Schedule of Quantities? The note specifies an Alberta Transportation Drawing RDG B1.5 (attached). This Fleet 350 product is 37' – 6" long on each end, I just need to know what the length is between the ends.
A7. Bid form has been updated.
- Q8.** On Page 89 (Section 03 20 00, Is this intended to require all reinforcing steel be galvanized. To be clear I am interested in this from the point of view of the precast panels for the MSE wall panels.
A8. Galvanized reinforcing will not be required for MSE panels unless specified by the manufacturer to meet the minimum design criteria as specified in Section 32 32 34 – Reinforced Soil Retaining Wall, Article 1.4.
- Q9.** Are there further specifications for item 11 – inlay thermoplastic? I didn't see the cut depth or material thickness in the specs.
A9. The requirement for inlay thermoplastic lane marking has been removed. Refer to amendment 001 package for revised specifications.
- Q10.** With regards to Item 11a – Lane Painting, is the measurement for payment per painted "line" (each) versus per painted "lane" which could be up to 3 lines?
A10. Lane painting will be measured per linear meter of painted line as per Section 32 17 23 – Pavement

Marking, Article 1.3.2.

- Q11.** Item 1 covers the Partial Depth Asphalt Removal (Milling) and Full Depth Reclamation. Is it the intent that full removal of asphalt for, say, the wildlife underpasses is paid under the milling item?
- A11.** Bid form has been updated.
- Q12.** The legend on Drawing C001 shows 3 conditions for the existing asphalt; “overlay and levelling course”, “pavement removal” and “existing pavement”. With regards to Drawings C901-C904, how do these conditions relate to Item 1 – Asphalt Pavement Removal? A take-off of the areas provides the following totals: Overlay and Level Course = 21471 m2, Pavement Removal = 25364 m2 and Existing Pavement = 31550 m2.
- A12.** Refer to DSP2 for revised drawings and specifications.
- Q13.** With regards to Wildlife Underpass #4, how is the steel post barrier paid?
- A13.** Refer to DSP2 for revised drawings and specifications. Bid form has been updated.
- Q14.** On Drawing S102, a 50x150 Continuous Neoprene pad is called for under the approach slabs. Our suppliers have informed us that this thickness of unreinforced neoprene pad is not available. They suggest that 6 mm is a more standard thickness for this application.
- A14.** 6mm x 150mm continuous neoprene pads will be acceptable.
- Q15.** MSE Wall: Please confirm that the foundation excavation for the reinforced soil retaining wall is paid under Item 4 – Roadway and Drainage Excavation.
- A15.** Refer to DSP2 for revised drawings and specifications. Bid form has been updated.
- Q16.** MSE Wall: Please confirm that the granular backfill for the reinforced soil retaining wall is paid under Item 7 – Granular Sub-Base Course.
- A16.** Refer to DSP2 for revised drawings and specifications. Bid form has been updated.
- Q17.** The measurement procedures under 32 32 34 paragraphs 1.2.4 and 1.2.7 state that the above “shall be measured and paid in accordance with...”. This is stated differently than, for instance, paragraph 1.2.3 which states, in bold letters, that “Payment shall be made under “Unit Price Item 3b...etc”
- A17.** Refer to DSP2 for revised drawings and specifications.
- Q18.** On the bid form, concrete for the bridge deck is referenced under section 03 30 51 of the specifications. In the specifications, concrete bridge decks is mentioned under both 03 30 00 Cast-In-Place Concrete under 2.4.3 Mixes and 03 30 51 Concrete For Bridge Decks 2.2.3 Mixes. Both sections of the specifications have separate requirements for aggregate size and use of synthetic fibres. Please confirm the correct mix specification for bridge deck concrete.
- A18.** Refer to DSP2 for revised drawings and specifications.
- Q19.** On the bid form, approach slab concrete is referenced under section 03 30 51 of the specifications. In the specifications section 03 30 51 Concrete for Bridge Decks under 2.2 Mixes, there is no mention of approach slabs. Contrary to the bid form, under section 03 30 00 Cast-In-Place Concrete under 2.4.3 Mixes, the approach slab mix is specified. Please confirm the correct mix specification for approach slabs. If the required mixes for the bridge deck and approach slabs are different, please confirm by way of addendum to the specifications and bid form to reflect the different requirements.
- A19.** Refer to DSP2 for revised drawings and specifications.
- Q20.** On the bid form, Precast Privy a) Supply and Install Two Stall Precast Privy is referenced under section 22 42 10 of the specifications. The specification states “the supply and installation of Two Stall Precast Privies, also known as washrooms or outhouses, at locations and elevations as shown on the Drawings or as directed by the Departmental Representative.” The only reference to the privy found is on drawing 2511-00545-0 sheet# C601, displaying “washroom locations: 1 Km”; that location would be at approximate Station 81+220 ; and beyond the Construction Limit station

82+500. Can Parks Canada Please provide exact locations and elevations with detail drawings for the Precast Privy- Supply and Install Two Stall Precast Privy?

A20. Refer to DSP2 for revised drawings and specifications.

Q21. Will details regarding the 1880mm x 1260mm Arch culvert located at station 86+405 be provided?

A21. Refer to DSP2 for revised drawings and specifications.

Q22. Is the contractor to assume the concrete curbing at the brake check area is to be infilled with gravels and capped? If so, with what?

A22. Concrete curb and gutter has been removed from the project scope. Refer to DSP2 for revised drawings and specifications.

Q23. If the island is to be capped, shall the contractor incorporate those costs into the lineal meter of curbing?

A23. Concrete curb and gutter has been removed from the project scope. Refer to DSP2 for revised drawings and specifications.

Q24. I'm having difficulty understanding where the existing pavement is on the civil drawings for the Trans Canada Twinning project in Yoho national park. From the contour lines given in the civil drawings, it would appear that the existing pavement is approximately 20 meters south of where it is indicated in the drawings. I've attached a PDF to help explain what I mean.

A24. Refer to Amendment 001 package for revised drawing set.

Q25. In regards to tender item 3b) Grubbing: In more than one location in the tender documents, it states that grubbing debris is to be hauled to the Mannix Pit. In one location (Section 31 11 00), page 125, 3.4 there is a reference to "CHIPS". Is the grubbing debris to be chipped after it is hauled to the Mannix Pit. Item 3.5 speaks about firewood being stockpiled at a location designated by the Departmental Rep. Are we to salvage and stockpile firewood?

A25. Chipping of grubbing debris will not be required.

Non-merchantable timber suitable for firewood shall be stockpiled in Niblock or Mannix Pit as directed by the Departmental Representative.

Q26. Tender item 4c) Unsuitable Material Excavation: Where is this material to be hauled to?

A26. Refer to Amendment 001 package for revised bid table.

Q27. Tender items 6 (Granular Sub-base Course), 7 (Select Granular Sub-base Course), 8 (Granular Base Course): The tender document states that "produce from suitable material excavated from within the design cuts and structure excavations". Is there enough material within the contract boundaries to be able to build the new subgrade plus produce all the required granular materials?

A27. Yes. Contractor to verify whether material is suitable to produce required granular materials.

Q28. Tender item 9a) Asphalt Concrete Pavement: Under 1.2.1 Measurement Procedures it states Supply and Application of Tack Coat is included in the unit price. Under Section 31 12 13.16 Asphalt Tack Coat, Measurement Procedures, it states Supply of Tack to be paid under the Prime Coat Sum. Please clarify.

A28. Payment for the supply of asphalt tack will be made under "Lump Sum Price Item 3a –Prime Cost Sum – Bituminous Materials".

B. Tender Package Revisions

1. Specifications: Specifications are replaced and attached in DSP2.

2. Reference Drawings:

Remove: Trans Canada Highway km 82.5 to 88.0 TCH Twinning - Civil Drawings (IFT)
Replace with: Trans Canada Highway km 82.5 to 88.0 TCH Twinning - Civil Drawings (IFT) Rev.1

Remove: Mannix Pit Plan April 2016
Replace with: Mannix Pit Plan July 2016

Remove: Niblock Pit Plan May 2016
Replace with: Niblock Pit Plan July 2016

Add: Trans Canada Highway km 82.5 to 88.0 TCH Twinning – Cross Sections (IFT)
Add: 69 Pit Plan July 2016

3. Reference Documents:

Add: Environmental Protection Plan – Twinning Km 82.5 to 88.3 - Golder July 2016

C. Bid Price Form

THE ATTACHED PRICE FORM MUST BE USED IN ORDER FOR A BID TO BE DEEMED RESPONSIVE. ANY BIDS SUBMITTED USING THE PREVIOUS PRICE FORM WILL NOT BE ACCEPTED.

All other terms and conditions remain unchanged.

ANNEX A PRICE FORM

- 1) The prices per unit shall govern in establishing the Total Extended Amount. Any arithmetical errors in this Appendix will be corrected by Canada.
- 2) Canada may reject the bid if any of the prices submitted do not reasonably reflect the cost of performing the part of the work to which that price applies.

LUMP SUM TABLE

Note: Bidders are reminded that it is their responsibility to include in their bid all work as described in the drawings and specifications. Pricing for work not accounted for in the Unit Price Table including but not limited to Mobilization, De-Mobilization, etc. is to be included in the Lump Sum Table.

Item No.	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity	Estimated Total Price (Tax extra)
1	01 25 20	Mobilization / De-mobilization	Lump Sum	1	\$ _____
2	01 35 31	Traffic Accommodation	Lump Sum	1	\$ _____
3	01 21 00	Prime Cost Sum			
		a) Bituminous Materials	Lump Sum	1	\$1,800,000.00
		b) Items other than Bituminous Materials	Lump Sum	1	\$1,500,000.00
TOTAL LUMP SUM AMOUNT (LSA) Transfer amount to subparagraph 1) (a) of BA03					\$ _____

UNIT PRICE TABLE

The Unit Price Table designates the Work to which a Unit Price Arrangement applies and the Lump Sum Amount designates Work to which a Lump Sum Arrangement applies.

- (a) The Price per Unit and the Estimated Total Price must be entered for each item listed.
- (b) Work included in each item is as described in the referenced specification section.

Item No.	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity	Price per Unit (Tax extra)	Estimated Total Price (Tax extra)
1	02 41 13.14 32 01 16.8	Asphalt Pavement Removal				
		a) Partial Depth Asphalt Removal (Milling)	m2	24,190	\$ _____	\$ _____
		b) Full Depth Reclamation	m2	40,740	\$ _____	\$ _____
		c) Saw-cutting	m	950	\$ _____	\$ _____
		d) Full Depth Asphalt Removal	m2	4,500	\$ _____	\$ _____
2	22 42 10	Precast Privy a) Supply and Install Two Stall Precast Privy	each	1	\$ _____	\$ _____

Item No.	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity	Price per Unit (Tax extra)	Estimated Total Price (Tax extra)
3	31 11 00	Clearing and Grubbing				
		a) Clearing	ha	27	\$ _____	\$ _____
		b) Grubbing	ha	27	\$ _____	\$ _____
4	31 24 13	Roadway and Drainage Excavation				
		a) Stripping and Placement in Stockpile	m3	54,680	\$ _____	\$ _____
		b) Type D Excavation	m3	85,360	\$ _____	\$ _____
		c) Unsuitable / Surplus Material Excavation				
		i) Stockpile in Niblock Pit	m3	15,000	\$ _____	\$ _____
		ii) Stockpile in 69 Pit	m3	200,000	\$ _____	\$ _____
		iii) Stockpile in Mannix Pit	m3	335,000	\$ _____	\$ _____
		d) Type A Rock Excavation	m3	27,600	\$ _____	\$ _____
5	31 37 00	Rip Rap				
		a) Class 10	m3	340	\$ _____	\$ _____
		b) Class 500	m3	70	\$ _____	\$ _____
6	32 11 19	Granular Sub-Base Course	m3	49,310	\$ _____	\$ _____
7	32 11 20	Select Granular Sub Base Course	m3	28,820	\$ _____	\$ _____
8	32 11 24	Granular Base Course	m3	14,810	\$ _____	\$ _____
9	32 12 16	Asphalt Concrete Pavement (EPS)				
		a) BC MoTI Class 1 - 19mm Medium Mix Asphalt Concrete	t	54,180	\$ _____	\$ _____
		b) Milled Rumble Strips	km	21.30	\$ _____	\$ _____
10	32 17 23	Pavement Marking				
		a) Lane Painting	m	37,010	\$ _____	\$ _____
		b) Gore and Hatch Marking	m2	52	\$ _____	\$ _____
		c) Arrow and Stop Bar Marking	each	19	\$ _____	\$ _____
11	32 17 31	Supply and Installation of Guide Posts	each	124	\$ _____	\$ _____

Item No.	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity	Price per Unit (Tax extra)	Estimated Total Price (Tax extra)
12	32 32 34	Reinforced Soil Retaining Wall				
		a) Design and Supply	m2	2,365	\$ _____	\$ _____
		b) Install	m2	2,365	\$ _____	\$ _____
13	32 91 19.13	Placement of Topsoil on Finished Slopes	m3	32,808	\$ _____	\$ _____
14	32 92 22	Hydraulic Seeding	ha	18	\$ _____	\$ _____
15	33 05 15	Manholes and Catch Basin Structures				
		a) Supply Catch Basins	each	19	\$ _____	\$ _____
		b) Install Catch Basins	each	19	\$ _____	\$ _____
16	33 42 13	Pipe Culverts				
		a) Supply and Install				
		i) 300mm CSP wt 2.0mm	m	310	\$ _____	\$ _____
		ii) 600mm CSP wt 2.0mm	m	30	\$ _____	\$ _____
		iii) 750mm CSP wt 2.0mm	m	40	\$ _____	\$ _____
		iv) 900mm CSP, wt 2.0mm	m	300	\$ _____	\$ _____
		v) 1000mm CSP, wt 2.0mm	m	210	\$ _____	\$ _____
vi) 1880x1260mm Arch CSP, wt 3.5mm	m	50	\$ _____	\$ _____		
17	03 20 00	Km 83 Wildlife Underpass (Bridge)				
		a) Plain Reinforcing - Supply and Place	kg	35,800	\$ _____	\$ _____
	03 20 00	b) Galvanized Reinforcing - Supply and Place	kg	44,600	\$ _____	\$ _____
	03 30 00	c) Concrete for Abutments - Supply and Place	m3	251	\$ _____	\$ _____
	03 30 00	d) Concrete for Barriers - Supply and Place	m3	22	\$ _____	\$ _____
	03 30 51	e) Concrete for Deck, Diaphragm and Approach Slabs - Supply and Place	m3	208	\$ _____	\$ _____
	03 35 00	f) Precast Structural Concrete Girders - Supply and Place	lump sum	1	\$ _____	\$ _____
	05 12 33	g) Bicycle Rail - Supply and Install	lump sum	1	\$ _____	\$ _____
03 50 00	h) Deck Waterproofing	m2	874	\$ _____	\$ _____	

Item No.	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity	Price per Unit (Tax extra)	Estimated Total Price (Tax extra)
18	33 42 35	SPCSP Wildlife Underpass				
		a) Design and Supply				
		i) Km 84.9 - 4x7m Elliptical Pipe Arch	m	40	\$ _____	\$ _____
		ii) Km 86.0 - 4.7x3.2m Elliptical Pipe Arch	m	38.5	\$ _____	\$ _____
		b) Install				
		i) Km 84.9 - 4x7m Elliptical Pipe Arch	m	40	\$ _____	\$ _____
		ii) Km 86.0 - 4.7x3.2m Elliptical Pipe Arch	m	38.5	\$ _____	\$ _____
19	33 71 13.01	Precast Concrete Barrier				
		a) Supply Concrete Barrier				
		i) CMB-H No Drain	each	1,093	\$ _____	\$ _____
		ii) CMB-E No Drain	each	1,091	\$ _____	\$ _____
		iii) CMB-H Slotted	each	210	\$ _____	\$ _____
		iv) CMB-E Slotted	each	210	\$ _____	\$ _____
		v) CDB-E (810mm)	each	14	\$ _____	\$ _____
		vi) CTB-1E	each	19	\$ _____	\$ _____
		vii) CTB-2H	each	19	\$ _____	\$ _____
		viii) CBN-H	each	19	\$ _____	\$ _____
		ix) Standard Bridge Parapet Transition Barrier	each	4	\$ _____	\$ _____
		x) CLB-E+H	each	244	\$ _____	\$ _____
		xi) CRB-H No Drain	each	90	\$ _____	\$ _____
		xii) CRB-E No Drain	each	90	\$ _____	\$ _____
		xiii) CRB-H Slotted	each	11	\$ _____	\$ _____
		xiv) CRB-E Slotted	each	11	\$ _____	\$ _____
		b) Install Concrete Barrier	m	7,860	\$ _____	\$ _____
c) Remove and Reinstall Crash Attenuator	each	1	\$ _____	\$ _____		
d) Supply and Install Crash Attenuator	each	2	\$ _____	\$ _____		

Item No.	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity	Price per Unit (Tax extra)	Estimated Total Price (Tax extra)
20	34 71 13.25	W-Beam Guardrail				
		a) Remove and Dispose of Existing Guardrail	m	155	\$ _____	\$ _____
		b) Supply and Install Strong Metal Post W-beam Guardrail	m	700	\$ _____	\$ _____
		a) Supply and Install Impact Absorbing Guardrail End Treatments	ea	4	\$ _____	\$ _____
TOTAL UNIT PRICE AMOUNT (UPA) Transfer amount to subparagraph 1) (b) of BA03					\$ _____	

TOTAL BID PRICE (LSA + UPA): \$ _____
Excluding Applicable Taxes

Note: Bidders are reminded that it is their responsibility to include in their bid all work as described in the drawings and specifications.