

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Regional Manager/Real Property
Contracting/PWGSC
Ontario Region, Tendering Office
12th Floor, 4900 Yonge Street
Toronto, Ontario
M2N 6A6
Ontario

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

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

Issuing Office - Bureau de distribution
Regional Manager/Real Property Contracting/PWGSC
Ontario Region, Tendering Office
12th Floor, 4900 Yonge Street
Toronto, Ontario
M2N 6A6
Ontario

Title - Sujet Port Granby, ON - Elliott Rd Constr	
Solicitation No. - N° de l'invitation EQ986-122960/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client R.023276.200	Date 2012-04-05
GETS Reference No. - N° de référence de SEAG PW-\$PWL-035-1703	
File No. - N° de dossier PWL-1-34152 (035)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-04-24	Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Woodhall, Lauren	Buyer Id - Id de l'acheteur pwl035
Telephone No. - N° de téléphone (416) 512-5873 ()	FAX No. - N° de FAX (416) 512-5862
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: PWGSC-TPSGC 195 Toronto Road Port Hope, ON L1A 3S4	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
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

Solicitation Amendment 2

This amendment is raised to answer bidders questions, make changes to some sections of the Specifications and Drawings, to include Drawings that were missing from the initial posting and to make minor changes to the Unit Price Table.

Bidders Conference Questions and Answers

Q #1. Are flagmen required at the CN and CP Rail crossing

A #1. CN Requirements are provided in Appendix M and CP Requirements are provided in Appendix N.

Q #2. Who is responsible for the cost of the flagmen?

A #2. It is the Contractors responsibility to pay for all third parties to complete the scope of work identified in the contract. For example, the Contractor is responsible to arrange and pay for flagmen when working within the CN right of way for completing the road interface with the rubber planks upgrade structure that CN crew will be installing at the rail crossing. Beyond what is outlined in the scope of work and where unforeseen circumstances require the presence of CN flagmen, then that portion of coordinating and paying for the flagmen would be outside the scope of work identified in the contract.

Q #3. Is the CP rail clearance wide enough to transport the large culvert #2 replacement?

A #3. The culvert is expected to be delivered in sections and it is the Contractor's responsibility to contact culvert vendors to determine culvert sizes that will be provided and if those pieces can be transported through the CP underpass.

Q #4. How will power be provided to the site and construction trailers?

A #4. It is the Contractor's responsibility. Verify with Hydro One the existence of power lines both along Concession Road 1 and along the south side of CN rail corridor. Refer to Section 01 51 00 Clause 1.7

Q #5. What is the schedule completion date of CN and CP Rail to complete their installations and upgrades?

A #5. Assume that all required upgrades to the CN and CP rail line infrastructure will be completed in time for the Elliott Road upgrades.

Q #6. Could the south entrance of Elliott Rd. at Lakeshore Rd. be used to access the site?

A #6. That portion of Elliott Road is inaccessible for use as a transportation route. If absolutely necessary, Contractor will have to lodge an application to the municipality to transport oversize items across the farm fields, north of Lake Shore Road.

Q #7. How would contractors access the site if the trucks don't fit the clearance at the CP overpass and entrance from the south is prohibited?

A #7. See A #6. The EA has a temporary use provision to transport oversize loads along Lakeshore Road and north to the site across the farm field. This will need to be pre-planned so that the Municipality of Clarington is notified in advance.

Q #8. Clarification regarding the period of insurance. The contractor is still responsible for the site 6 years after the completion of work and even when a different contractor is working on the site but for another contract?

A #8. Yes – Notwithstanding the 6-year coverage period, Applicability of the insurance is limited to the work undertaken and completed by the Contractor. The policy required herein shall be in force and be maintained from the date of contract award until the day of issue of the Certificate of Completion except that the coverage for Completed Operations Liability shall, in any event, be maintained for a period of at least six (6) years beyond the date of the Certificate of Substantial Performance.

Q #9. Can the period of insurance be amended for this project?

A #9. No

Q #10. Is the list of attendees being posted?

A #10. If a formal written request is received, PWGSC will send out a list of attendees.

Q #11. Could the tree stumps remain on site? Can we bury the tree stumps?

A #11. No and No. All stumps and grubbing must be removed and appropriately disposed of off-site.

Q #12. Is there any land available on the north end for the trailers?

A #12. We believe there is; but it is the Contractor's responsibility to evaluate available options and possibilities to locate the office trailers within the project boundaries and limits. **Once the Contractor deems the Road passable from Concession Road 1 south to the LTWMF entrance, the Departmental Representative may request the Contractor to relocate the site trailers to the staging area identified at the LTWMF site.**

Q #13. Is the contractor responsible for the PHAI - MO's trailer and placement?

A #13. Yes as per specification 01 52 00.

Q #14. Will there be a fisheries specialist on-site to oversee that work is done in accordance with DFO standards?

A #14. Per specification 35 42 19 (Preservation of Water Courses), the Contractor is responsible to construct the Works in accordance with DFO and Ganaraska Region Conservation Authority (GRCA) requirements. A fisheries specialist retained by the Departmental Representative will be on-site on a periodic basis to confirm the Contractor is undertaking the Works in accordance with the Contract.

Q #15. What is the budget of the project? Merx indicates \$9M - \$12M.

A #15. Yes, this is the budget.

Q #16. When does the PHAI - MO anticipate obtaining the DFO permit?

A #16. Before commencement of construction work in May 2012

Q #17. What happens when DFO requests for more work than what is stated and extras are incurred?

A #17. DFO authorization will be obtained by the PHAI – MO and any additional work resulting from that authorization is not the Contractor's responsibility. Such additional work would be considered extra.

Q #18. Has the PHAI - MO applied for the permit to take water (PTTW)?

A #18. PWGSC is in the process of obtaining a PTTW for the Works. Assume that a Permit will be in place appropriate to complete the Works.

Q #19. Who is responsible for diverse/ bypass pumping?

A #19. Contractor is responsible for the Works of the Contract. PHAI - MO will obtain a PTTW that is appropriate to complete the Works.

Q #20. Who is responsible for applying for the permits?

A #20. For the sake of saving time, the PHAI – MO will be obtaining the DFO authorization, Permit to Take Water, and also lease the Elliott Road right of way for the required contract work. Contractor is responsible for all other permits required to complete the work.

Q #21. For the Earthworks breakdown, is there an option to use cut out for fill? The Unit price table is confusing and doesn't make sense.

A #21. Yes, as the Contractor sees appropriate. Refer to Section 31 22 13 Clauses 2.1 and 3.2

Q #22. Material items in the Earthwork section of the specifications does not make sense. Could a quantity sheet for available cut be provided?

A #22. Estimated cut and fill table is provided in Section 31 22 13 Clause 3.2. Also see response to Question 21.

Q #23. So this is supposed to be a balanced site?

A #23. Same as above, estimated cut and fill table is provided in Section 31 22 13 Clause 3.2. Also see response to Question 21.

Q #24. The stripping from Elliott Road can go in the stockpile?

A #24. Refer to Section 31 22 13 Clause 2.1.4

Q #25. The stumps from the tree removal must be disposed of off site?

A #25. Yes. See the answer to Question 11.

Q #26. Can a berm be built along the CN track?

A #26. No

Q #27. The following drawings are missing: C-03, C-38, C-041 and SS-C-32

A #27. These drawings are included in this response package (Amendment 1).

Q #28. The gradation requirements for the angular sub-base, are they from a quarry source or pit source?

A #28. Grading requirements for the angular sub-base material are identified in Section 32 11 23, Clause 2.1.3.

Q #29. Who is responsible for Quality Control?

A #29. As per the specification, the contractor is responsible for quality control.

Q #30. For the general layout, who is responsible for the site layout and survey?

A #30. The Contractor is responsible for the site layout and survey.

Q #31. What are the tack coat requirements?

A #31. A tack coat has not been specified between the base and top course asphalt layers. The design intent is to place top course immediately following the placement of the base course asphalt. In the event that the Contractor's phasing of paving work is such that top course is not placed immediately following base course asphalt, a tack coat and potentially cleaning of the base course asphalt surface shall be completed at the Contractor's expense to the satisfaction of the Departmental Representative (DR). We note that the top course asphalt depth is a component of the overall pavement design required to achieve the structural capacity necessary to support anticipated loadings for construction related traffic to the LTWMF site.

Q #32. The duration of work posted on Merx is scheduled to be 34 wks, however the contract states 40 wks. Explain?

A #32. The correct duration is 34 weeks as per the MERX posting.

Q #33. Are stabilizers (Terraslope) being eliminated?

A #33. The requirement for Geogrid slope reinforcing material (Terraslope-45 or equivalent) is being eliminated and are clarified on the Drawings re-issued as part of Addendum 1. The requirement for the erosion control mat slope protection material remains where noted on the typical section sheets. The requirement for the turf reinforcement mat (Landlock or equivalent) remains as well. The turf reinforcement mat is included as a provisional item and is not specifically called out on the Drawings.

Q #34. Are there existing tile drains in the field and are there permits?

A #34. No tile drains are known to exist in the field.

Q #35. What if the track crossing mats to be installed by CN are not completed in time?

A #35. CN has committed to complete the work in April and certainly prior to the start of this contract work in May 2012.

Q #36. Is the amount stripped the amount available for reuse?

A #36. Refer to Section 31 22 13.

Q #37 Can borrow material be obtained from the LTWMF site?

A #37 Contrary to the answer provided during the conference of March 20, 2012; other than surplus material from the storm water management ponds, the LTWMF site will not be used as a borrow site. Contractor is responsible to source appropriate off-site clean borrow sites to make up for any shortfall in required fill.

Q #38 What is the volume of material in the construction of the two storm water management ponds?

A #38 Estimated cut and fill volumes are provided in Section 31 22 13. There is enough information provided in the drawings to allow the Contractor to estimate the volume of material needed to construct the two storm water management ponds.

Q+A#39 Contrary to what was said during the conference of March 20, 2012, there will not be any additional fencing installed outside the project limits.

Q+A#40 With reference to Section 01 14 00 Clause 1.3..2, regular construction activity is not required or expected on weekends and that weekend work, when necessary, shall be in compliance with the municipal noise bylaw.

Changes to the Contract Drawings and Tender Documents

Entire revised Specifications, Drawings and Unit Price Table Attached

DRAWINGS

ELL-C-05

- (Top):
1. New field entrance and gate added sta 1+128 Lt
 2. Gate shown sta 1+128 Rt
- (Bottom)
3. New field entrance and gate added sta 1+550 Lt
 4. Gate shown sta 1+550 Rt

ELL-C-06

- (Top)
1. Gate shown sta 1+850 Rt
 2. New field entrance and gate added sta 1+960 Lt
 3. Gate added sta 2+040 Lt
 4. Gate added sta 2+040 Rt
 5. Fence added at west grading limit (see ELL-C-10)
- (Center)
4. Limit of grading revised sta 2+140 to 2+190 Rt
 5. Limit of grading revised sta 2+130 to CN Rail Lt
 6. Location silt fence, check dams and highway fence revised (Lt)
 7. Gate added 2+312Rt
 8. Highway fence added at west grading limit (see ELL-C-11)
- (Bottom)
9. Highway fence added at west grading limit (see ELL-C-12)

ELL-C-07

1. New field entrance, gate and culvert added sta 1+128 Lt
2. Gate shown sta 1+128 Rt

ELL-C-08

1. Note added regarding depth of guide rail posts along retaining wall
2. Gabion walls replaced with armour stone walls

3. East shoulder narrowed to 1.5 m at retaining walls
4. Begin and end chainages revised for retaining walls
5. For additional details see ELL-B-02 and ELL-C-27

ELL-C-09

1. New field entrance and gate added sta 1+550 Lt
2. Gate shown sta 1+550 Rt

ELL-C-10

1. New field entrance and gate added sta 1+960 Lt
2. Gate added sta 2+039.83 Lt
3. Gate shown sta 1+850 Rt
4. Gate added sta 2+038.24 Rt
5. Fence added at west grading limit; CP right-of-way to sta 2+100

ELL-C-11

1. Limit of grading revised sta 2+140 to 2+190 Rt
2. Slope revised east side of road sta 2+120 to CN Rail.
3. Culvert length revised sta 2+160
4. Cross culvert at south side of CN crossing added to profile
5. CN north right-of-way limit east of Elliott Road revised
6. Fence added at west grading limit; sta 2+100 to CN right-of-way and CN right-of-way to sta 2+400
7. Gate added at sta 2+312.2 Rt

ELL-C-12

1. Highway fence added at west grading limit, sta 2+400 to sta 2+633 Rt

ELL-C-15

1. Lt embankment slope flattened to 2.5:1
2. Deleted details for Terraslope 45 and granular B backfill

3. Erosion control mat requirement added for Lt slope
4. Shoulder rounding 0.5m for Lt shoulder
5. Fence added at west (Rt) grading limit

ELL-C-17

(Top)
signs

1. For clarification, added description for 2 wooden posts for message signs
2. For clarification, all signs with the exception of the message and Wa-9 signs are to have single wooden posts

ELL-C-18

(Top)
(chevron)

1. For clarification, added description for steel posts for sign Wa-9
2. For clarification, all signs with the exception of the message and Wa-9 signs are to have single wooden posts

ELL-C-23, 24

1. Cross section revised for sections sta 2+120 to 2+250 for flattening of Lt embankment side slope to 2.5:1 and for accommodation of Culvert No. 6 realignment

ELL-C-26

1. See ELL-C-07 items 1 and 2

ELL-C-27

1. See ELL-C-08, items pt 1 through 4
5. For clarification, depth of granular added to Section D.
6. Requirement for subdrain behind armour stone wall added to Drawing (See ELL-B-02 for additional information)

ELL-C-31

1. Limit of grading revised sta 2+140 to 2+190 Rt
2. Culvert length revised sta 2+160

ELL-B-01

1. Revised location and elevation W.P. No. 1

2. Revised skew angle

3. Limit of grading revised on east side for slope flattening to 2.5:1, culvert lengthened to suit
4. Location of rip rap revised
5. Typical section modified to include requirement 50 mm openings in bottom slab and filter cloth on and under bottom slab added

ELL-B-02

armour

1. Retaining walls changed from gabion baskets to armour stone
2. Requirement for 100mm subdrain behind armour stone added
3. Shoulder east side narrowed to 1.5m
4. Measurements added to longitudinal section regarding width of stone and setback from edge of shoulder
5. Typical section modified to include requirement 50 mm openings in bottom slab and filter cloth on and under bottom slab added.
6. Rip rap at toe of slopes added to drawing for clarification

ELL-B-03

1. New details added for positioning of 50mm holes in bottom slab of Culverts No. 2 and No. 6

SPECIFICATIONS

Section	Page	Article	Description
00 01 11	1	-	Deleted Section 31 36 10
01 14 00	2	1.3.9	Revised 3 rd line "inspection" to read "inspect"
01 52 00	3	1.10.3	Revised "Direct location of these facilities" to "Location of these facilities to be approved by the Departmental Representative."
01 74 20	2	1.2.1.1, 3.1.1	Revised "Ministry of Environment and Energy" to read "Ministry of the Environment"
03 41 00	1	1.3.1	Description updated to include requirement for 50mm diameter drains and filter cloth
	3	2.2.4	New article added
10 14 53	1	1.2.1.1.20	Item deleted
		1.2.1.5	Item added
	3	3.1.3.1	1200 mm minimum "diameter" to read 1200mm minimum "depth"
31 22 13	1	1.2.1.1.4	Revised "Alt.1" to read "Alt.2"
	5	3.2.7	Quantities revised in table
		3.2.7	Note B: Quantity revised
		3.2.7	Note D deleted
31 32 19.01	1	1.3.2	Description revised regarding filter cloth under box culvert elements
		1.3.3	Item deleted
31 32 19.13	1	1.1.1	References to slope reinforcing deleted
		1.2.1	References to slope reinforcing deleted
	2	1.4.2, 1.4.3, 1.4.4	Deleted
		2.1.1	Deleted requirements for slope reinforcement, added requirements for turf reinforcement mat. For clarification, turf reinforcement mat is a provisional item. Reference to installation of turf reinforcement mat is not specified on drawings. Installation will be at Departmental Representative's direction, if required.
	3	3.1.3, 3.1.6, 3.1.7, 3.1.9	Deleted
		3.1.5	Modified.
31 36 10	All		Section is deleted
31 37 11	1	1.1.1	"Pea gravel" added to description.
		1.2.1.4, 1.2.1.5	Added "c/w non woven geotextile"
		1.2.2	Description revised, measurement changed to "tonnes", requirement for 100mm dia subdrain and granular B Type 1 backfill added
		1.2.4	New article added
		1.3.2	New article added
	3	2.1.4.3	Density revised from 2.6 to 2.92
		2.1.4.4	Description revised
		2.1.4.5	New item added for requirements of pea gravel
32 11 23	1	1.2.1.2.2	Deleted

Section	Page	Article	Description
00 01 11	1	-	Deleted Section 31 36 10
32 31 13	2	2.1.2.1	Class revised from 'A' to 'D'. 'Grade 1' deleted.
	3	2.1.6	Requirement for tension bar deleted.
		2.1.13	Duplicate barbed wire clause deleted.
		3.2.11	Revised Clause to clarify that overhang tops are to face inwards.
32 31 14	1	1.2.2	For clarification, added "Double gates will be counted as one gate."
32 31 26	1	1.2.2	For clarification, added " <i>Measure gates installed, regardless of width. Gate widths are specified on Drawings.</i> "
		1.3.4	OPSD reference revised to OPSD 971.101.
	2	2.1.1.1	Revised "Farm-field type" to "Design Number 949-12-9".
34 17 39	1	1.2.1.4	New article added
35 42 19	4	1.2.2	Item Deleted.
		2.1.2	Section revised as follows: " The Departmental Representative will obtain Ministry of the Environment Permit to Take Water (PTTW) for dewatering of surface and/or groundwater in excess of 50,000L/day at the Culverts located at STA 1+280 and STA 2+160. The Contractor shall abide by the conditions of these permits and obtain MOE approval of any changes proposed by the Contractor. "
**The issuance date for all specification sections updated has been revised to "2012-03-26".			

Delete in its entirety:

Appendix 1 - Combined Price Form

Insert Revised Combined Price Form:**APPENDIX 1 - COMBINED 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

The Lump Sum Amount designates Work to which a Lump Sum Arrangement applies.

- (a) Work included in the Lump Sum Amount represents all work not included in the unit price table and includes but is not limited to insurance, security requirements, cleaning, waste management and disposal, traffic control, quality control, close out submittals and commissioning requirements.

LUMP SUM AMOUNT (LSA) Excluding GST / HST	
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UNIT PRICE TABLE

The Unit Price Table designates Work to which a Unit Price Arrangement applies.

- (a) Work included in each item is as described in the referenced specification section.
- (b) The Price per Unit shall not include any amounts for Work that is not included in that unit price Item.

The Bidder acknowledges that whenever additions or deletions involve items listed above in the Unit Prices Schedule, the unit prices entered will be used in determining the amount of the extra or deduction regardless of the quantity provided. Weigh ticket copies for all materials measured for costing by tonnage must be submitted to Departmental Representative. The Contractor shall be responsible for all co-ordination activities.

The unit prices include overhead, profit and all other related charges including labour, material, fabrication and installation. The unit prices quoted are free from escalation clauses and will only be applicable to work completed.

Division 01 - General

Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
1	01 31 19	Project Meetings – Pre-Construction Meeting	Each	1		\$
2	01 31 19	Project Meetings – Bi-weekly Progress	Each	10		\$
3	01 32 16	Progress Schedule Updates	Each	10		\$
4	01 35 29	Health and Safety Requirements	Each	1		\$
5	01 35 29	Health and Safety Plan and Training	Each	1		\$
6	01 35 43	Environmental Protection	Each	1		\$
7	01 35 43	Environmental Plan and Training	Each	1		\$
8	01 52 00	Construction Facilities	Each	1		\$
9	01 52 00	Mobilization and Demobilization	Each	1		\$
10	01 56 00	Temporary Barriers and Enclosures	Each	1		\$
11	01 71 00	Examination and Preparation	Each	1		\$
	TOTAL DIVISION 1					\$

Division 02 – Existing Conditions

Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
1	02 41 23	Culvert / pipe removal all types incl. headwalls	Metre	82		\$
2	02 41 23	Fence/gate removal	Metre	2,584		\$
3	02 41 23	Well Decommissioning	Each	10		\$
	TOTAL DIVISION 2					\$

Division 03 – Concrete

Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
1	03 41 00	STA1+280 5.1m x 2.2m box culvert	Metre	18.0		\$
2	03 41 00	STA2+160 3.6m x 2.0m box culvert	Metre	50.4		\$
3	03 41 00	clay trench plug	Each	2		\$
	TOTAL DIVISION 3					\$

Division 10 – Specialties

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Buyer ID - Id de l'acheteur
pw1035
CCC No./N° CCC - FMS No/ N° VME

Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
1	10 14 53	Traffic Signage on wooden posts	Each	35		\$
2	10 14 53	Signage on steel posts	Each	12		\$
3	10 14 53	Signage on concrete structures	Each	6		\$
4	10 14 53	Signage on chain-link fence	Each	4		\$
5	10 14 53	Message Sign on 2 wooden posts	Each	2		\$
	TOTAL DIVISION 10					\$

Division 31 - Earthwork

Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
1	31 11 00	Clearing and Grubbing	Sq. Metres	20,752		\$
2	31 11 01	Silt fence	Metre	1,700		\$
3	31 11 01	OPSD 219.210	Each	37		\$
4	31 11 01	OPSD 219.211	Each	17		\$
5	31 11 01	Mud Mat	Sq. Metres	600		\$
6	31 22 13 Elliott Road	General Excavation and Grading Incl. Stripping	Cu. Metres	14,443		\$
7	31 22 13 Elliott Road	Rock / Boulder Excav. Over 1.0 cub.m	Cu. Metres	10		\$

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Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
8	31 22 13 Elliott Road	ALT.1 STA 2+040 to STA 2+255 Clean Native Mat'l	Cu. Metres	16,600		\$
9	31 22 13 Elliott Road	ALT. 2 STA 2+040 to STA 2+255 Imported Fill	Cu. Metres	16,600		\$
10	31 22 13 Elliott Road	Realign Creek STA 1+280	Metre	38		\$
11	31 22 13 Elliott Road	Realign Creek STA 2+160	Metre	15		
12	31 22 13 LTWMF Site	General Excavation and Grading Incl. Stripping	Cu. Metres	36,740		\$
13	31 22 13 LTWMF Site	Additional earth excavation as directed by DR including replacement with imported fill	Cu. Metres	1,000		\$
14	31 22 13 LTWMF Site	Water for compaction	Cu. Metres	1,500		\$
15	31 22 13	Earth Borrow Elliott Rd	Cu. Metres	21,068		\$
16	31 22 13	Earth Borrow LTWMF Site	Cu. Metres	13,865		\$
17	31 23 33.01	20mm CRL	Cu. Metres	100		\$

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Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
18	31 23 33.01	50mm CRL	Cu. Metres	100		\$
19	31 23 33.01	Sheeting	Sq. Metres	100		\$
20	31 23 33.01	Unshrinkable fill	Cu. Metres	100		\$
21	31 32 19.01	Woven, min 100kN/m (STA 2+190 to 2+265)	Sq. Metres	2,700		\$
22	31 32 19.01	Non-Woven, Max AOS 0.15mm	Sq. Metres	17,000		\$
23	31 32 19.13	Terraslope 45 or equivalent	Sq. Metres	0		\$
24	31 32 19.13	Landlok or equivalent	Sq. Metres	200		\$
25	31 32 40	Compacted clay	Cu. Metres	6,374		\$
26	31 36 10	Gabions	Cu. Metres	0		\$
27	31 37 11	300mm Thick on Slopes c/w Filtercloth	Sq. Metres	124		\$
28	31 37 11	300mm Thick on Culvert Outlets c/w Filtercloth	Sq. Metres	30		\$
29	31 37 11	150mm Thick River-Run Stone in Box Culvert	Sq. Metres	123		\$
30	31 37 11	300-500mm Thick River Run Stone in Box Culvert	Sq. Metres	204		\$
31	31 37 11	300-500mm Rock Protection in Box Culvert	Sq. Metres	123		\$

Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
32	31 37 11	300mm Depth of Type R-10 Rip-Rap c/w non-woven geotextile for LTWMP site ponds and ditches	Sq. Metres	2,224		\$
33	31 37 11	Armour Stone, c/w Granular A base and non-woven geotextile	Each (1.0m x 1.0m x 0.6m)	194		\$
	TOTAL DIVISION 31					\$

Division 32 – Exterior Improvements

Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
1	32 01 90.33	Tree/Shrub Preservation	Each	55		\$
2	32 11 23	Granular A - Roads	Tonne	12,000		\$
3	32 11 23	Granular A - Field Entrances	Tonne	120		\$
4	32 11 23	Granular A - Laydown Area	Tonne	3,800		\$
5	32 11 23	Granular B - Type 1 - Roads	Tonne	28,000		\$
6	32 11 23	Granular B - Fill(STA 2+120 to 2+265 Lt)	Tonne	0		\$
7	32 11 23	Angular Subbase	Tonne	31,000		\$

Solicitation No. - N° de l'invitation
EQ986-122960/A
Client Ref. No. - N° de réf. du client
R.023276.200

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002
File No. - N° du dossier
PWL-1-34152

Buyer ID - Id de l'acheteur
pw1035
CCC No./N° CCC - FMS No/ N° VME

Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
8	32 12 17	HL8 G64-28	Tonne	3,000		\$
9	32 12 17	HL1 PG64-28	Tonne	1,600		\$
10	32 12 17	HL3 PG58-28 60mm - Blvd	Sq. Metres	242		\$
11	32 12 17	HL3 PG58-28 50mm – Spillway OPSD605.040	Sq. Metres	20		\$
12	32 15 60	Calcium Chloride	Tonne	15		\$
13	32 15 60	Water	Cu. Metre	1,500		\$
14	32 16 15	Curbs - OPSD 600.040, OPSD 608.010	Metre	4		\$
15	32 16 15	Curbs - OPSD 600.060, OPSD 608.010	Metre	226		\$
16	32 16 15	Curbs - MTOD 600.120MOD	Metre	24		\$
17	32 16 15	Gutters - OPSD 605.030	Each	5		\$
18	32 16 15	Gutters - OPSD 604.020	Each	1		\$
19	32 17 24	Pavement Markings - 100 mm solid yellow painted	Metres	1488		\$
20	32 17 24	Pavement Markings - 100 mm solid white painted	Metres	568		\$
21	32 17 24	Pavement Markings - 100 mm broken white painted	Metres	106		\$

Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
22	32 17 24	Pavement Markings - 300 mm solid white thermo-plastic	Metres	15		\$
23	32 17 24	Pavement Markings - 450 mm solid white thermo-plastic	Metres	13		\$
24	32 17 24	Pavement Markings - Symbols - Arrows – all types - thermo-plastic	Each	2		\$
25	32 17 24	Pavement Markings - Symbols - Triangles - thermoplastic	Each	12		\$
26	32 17 24	Pavement Markings - Symbols - Triangles - thermoplastic	Each	2		\$
27	32 31 13	Fence – c/w barbed wire	Metre	1,394		\$
28	32 31 14	1.8m Fence – c/w barbed wire	Metre	2,164		\$
29	32 31 14	1.8m Fence, barbed wire deleted	Metre	20		\$
30	32 31 14	Fence Gate	Each	4		\$
31	32 31 26	OPSS 1540	Metre	2,718		\$
32	32 31 26	Fence Gates	Each	9		
33	32 91 19.13	Rototill	Sq. Metres	8,900		\$
34	32 91 19.13	Topsoil	Sq. Meters	34,300		\$
35	32 91 19.13	Finish grading	Sq. Metres	34,300		\$
36	32 91 19.13	Topsoil for plant - Tree	Each	55		\$
37	32 91 19.13	Topsoil for plant - Shrub	Each	124		\$

Solicitation No. - N° de l'invitation
EQ986-122960/A
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PWL-1-34152

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Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
38	32 92 19.16	Seeding & mulching	Sq. Metres	17,750		\$
39	32 92 19.16	Seeding and Erosion Control Blanket	Sq. Meters	8,950		\$
40	32 92 23	Sod – Staked in Ditch Inv.	Sq. Metres	4,720		\$
41	32 92 23	Sodding - Landscape	Sq. Meters	3,600		\$
42	32 93 10	60cal DECIDUOUS	Each	12		\$
43	32 93 10	60cal CONIFEROUS	Each	43		\$
44	32 93 10	Shrub	Each	124		\$
45	32 93 43.01	Pruning of tree	Each	55		\$
	TOTAL DIVISION 32					\$

Division 33 - Utilities

Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
1	33 05 14	OPSD 701.010 Depth 3.5-4.0m	Each	1		\$
2	33 05 14	OPSD 701.011 Depth 0.0-2.0m	Each	1		\$

Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
3	33 05 14	OPSD 701.011 Depth 2.0-2.5m	Each	1		\$
4	33 05 14	OPSD 701.011 Depth 3.5-4.0m	Each	1		\$
5	33 05 14	OPSD 701.011 Depth 4.0-4.5m c/w Drop Structure OPSD 1003.031	Each	1		\$
6	33 05 14	Adjusting tops	Each	1		\$
7	33 05 14	Outfall OPSD 804.040, OPSD 804.050, OPSD 972.131	Each	1		\$
8	33 05 14	slide gate valves	Each	3		\$
9	33 05 14	Orifice Plates	Each	2		\$
10	33 05 14	Extended outlet structures – North Pond	Each	1		\$
11	33 05 14	Extended outlet structures - South Pond	Each	1		\$
12	33 11 17	250mm PVC	Metre	149.0		\$
13	33 11 17	150mm PVC	Metre	2.5		\$
14	33 11 17	150mm S.S.	Metre	4.0		\$
15	33 11 17	Dry Hydrant	Each	1		\$
16	33 42 13	400mm dia	Metre	65.0		\$

Solicitation No. - N° de l'invitation
EQ986-122960/A
Client Ref. No. - N° de réf. du client
R.023276.200

Amd. No. - N° de la modif.
002
File No. - N° du dossier
PWL-1-34152

Buyer ID - Id de l'acheteur
pw1035
CCC No./N° CCC - FMS No/ N° VME

Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
17	33 42 13	500mm dia	Metre	55.0		\$
18	33 42 13	600mm dia	Metre	70.0		\$
19	33 42 13	800mm dia	Metre	66.0		\$
20	33 42 13	1200mm dia including 45° bend and future removal	Metre	12.0		\$
21	33 42 13	Trench Plug OPSD 802.095	Each	6		\$
22	33 44 00	200mm dia PVC SDR35	Metre	100.9		\$
23	33 44 00	250mm dia PVC SDR35	Metre	12.0		\$
24	33 44 00	300mm dia PVC SDR35	Metre	63.0		\$
25	33 44 00	600mm dia CONC CL-140D	Metre	17.4		\$
26	33 44 00	900mm dia CONC CL-140D	Metre	15.0		\$
27	33 44 00	Concrete Encasement	Cu. Metres	10		\$
28	33 44 00	Trench plug	Each	4		\$
29	33 46 16	100mm Perf. Plastic c/w sock	Metre	1,313		\$
30	33 46 16	150mm Non-Perf. CSP Outlets	Metre	70		\$
31	33 46 16	Rodent Grate	Each	14		\$

Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
32	33 46 16	CCTV Inspection	Metre	420		\$
33	33 46 16.01	Granular Sealing with Asphalt	Sq. Metres	13,260		\$
	TOTAL DIVISION 33					\$

Division 34 - Transportation

Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
1	34 17 39	OPSD 912.130 Single Rail	Metre	542		\$
2	34 17 39	OPSD 912.130 Single Rail and Channel	Metre	86		\$
3	34 17 39	OPSD 922.181 L=15.2m	Each	4		\$
4	34 17 39	OPSD 912.531 at Driveways	Each	4		\$
5	34 17 39	OPSD 912.235 L=3.8m	Each	4		\$
6	34 17 39	OPSD 912.430	Each	4		\$
7	34 71 14	Overheight Vehicle Warning Structure – OVWS	Each	2		\$
	TOTAL DIVISION 34					\$

Division 35 – Waterway and Marine Construction

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EQ986-122960/A

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R.023276.200

Amd. No. - N° de la modif.

002

File No. - N° du dossier

PWL-1-34152

Buyer ID - Id de l'acheteur

pw1035

CCC No./N° CCC - FMS No/ N° VME

Item	Specification Reference	Description	Unit of Measurement	Est. Qty	Price per Unit	Estimated Total Price
1	35 42 19	Permitting	Each	0		\$
	TOTAL DIVISION 35					\$

TOTAL EXTENDED AMOUNT (TEA) Excluding GST / HST	
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TOTAL BID AMOUNT

TOTAL BID AMOUNT (LSA + TEA) Excluding GST / HST	
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