



Addendum No. 7
August 29, 2021

Project Name/Description: RFP for Earth Works and Site Servicing
for 470,599,600,622 and 652 Tremblay Road

Location: Ottawa, Ontario

Owner: Canada Lands Company

RFP Coordinator: Krisendat Sewgoolam
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RFP Number: 602199-02

RFP Issue Date: July 8, 2021

RFP Closing Date: November 4, 2021 at 10am EDT

Total number of pages
within this issued Addendum: 9 plus Revised Pricing Schedule 6 as attachment

All Addenda shall form an integral part of the RFP and are to be read in conjunction therewith. The Addenda shall take precedence over the aforementioned RFP which may prove to be at variance or may otherwise be qualified in writing by authorized personnel.

This information shall be incorporated into and be read together with the relevant Sections of the Request for Proposal document.

Schedule 6 are hereby deleted and replaced with the attached Revised Schedule 6.

Section 1.4 RFP Tentative Timetable is hereby deleted and replaced with the following:

The following is a summary of the key dates in the RFP process:

Event	Date
RFP Issue Date	Thursday, July 8, 2021
Submission Deadline for Receipt Confirmation Schedule	Tuesday, July 13, 2021 at 10am EDT
Optional Site Visit (see Section 3.4)	Friday, July 16, 2021
Questions to be Submitted in Writing (see Section 2.5.1 (Submission))	Monday, September 20, 2021 at 5pm EDT
Addenda Deadline (see Section 2.5.3 (Issued Addenda))	Thursday, October 14, 2021
RFP Submission Deadline	Thursday, November 4, 2021 at 10am EDT
Anticipated Agreement Start Date	November 2021

Retaining Walls

Question 1:

Please provide specifications and details for Pricing Schedule II Item E6 - Construct and install retaining wall as per dwg no. SWM1 at the direction of the Structural Engineering Consultant.

Elevations for top and bottom of wall are required in order to obtain material pricing

Answer:

The retaining wall listed in Schedule II Item E6 is located within the proposed SWM facility. The retaining wall type and design must be specified by the Contractor and approved by City of Ottawa and the Engineering Consultant prior to construction. Railing to be installed as per City of Ottawa Standards. This line item has been updated accordingly within the Pricing Schedule.

Question 2:

Tender Item IIA 17 is to Construct concrete retaining wall complete with guide rail as specified by the Structural Engineer. The quantity is 193 M. Tender Item IIG1 is to Construct concrete retaining wall complete with guide rail as specified by the Structural Engineer. The quantity is 193 M. Is Tender Item IIG1 a duplicate, and can it be deleted from the schedule of prices?

Answer:

The retaining wall listed in Schedule II Item A17 is located on the west side of the development. The retaining wall has been specified as a Toe Wall as per OPSD 3120.100, with guard rail as per City Standards F1. This line item has been updated accordingly within the Pricing Schedule.

The Pricing Schedule has been updated accordingly. Section G has been removed entirely and all items previously listed within Section G are now included within Section A. As such, Item II-G01 was a duplicate item and has since been removed.

Rock Blasting

Question 3:

Will blasting be permitted on this site to remove the rock? The specifications note that blasting is not allowed unless the specific applications are made, and approvals received from the owner. Is this a road that we will be able to take, or is the preference that there is no blasting at all on site? The geotechnical report and the Phase II ESA reference rock excavation in order to complete the proposed works, however, there is no estimated quantity or location to capture the rock excavation in the Pricing Schedules. Could you please confirm how rock excavation is to be captured in the pricing schedules?

Answer:

It is anticipated that all sewers are to be installed above the bedrock elevations; however, an additional line item has been carried within the Schedule of Additional Unit Prices in both Contract I and Contract II. The Proponents must provide a price for these line items.

Pond and Pond Liner

Question 4:

Item E2 - Headwall for 525mm dia. Storm sewer, quantity should be 1 each not 2 each. Please confirm.

Answer:

There are two 525mm storm sewer headwalls as listed in the Pricing Schedule; one within the pond at the outlet structure and a second out letting the pond flows into the drainage swale.

Question 5:

Please advise what is the difference between items A11 - Supply, Install, maintain and remove CB Sediment Trap as per detail on DWG no. ESC4 and A16?

Answer:

Pricing Schedule A11 has been removed from the pricing schedule and the quantity of A16 has been revised.

Question 6:

C3 Item - Please advise how to install the insulation for the storm sewers, flat over the pipes or box method.

Answer:

Insulation construction shall be completed in alignment with City of Ottawa standard detail W22 listed on drawing NT1.

Question 7:

There is no item for pond excavation under Section E – Stormwater Management Facility. We assume the pond excavation is to be paid under item I-A23, which would be in contract 1 for material management purposes. Please Advise.

Answer:

The pond excavation will be paid under item Section I-A21 in Contract I.

Question 8:

Please provide a spec for the pond liner in item II-E08.

Answer:

Pond liner to be 1.0m clay liner or approved equivalent.



Question 9:

Please provide a detail for the double swing gate in item II-E11.

Answer:

The Pricing Schedule for this line item has been updated accordingly. Please note the item has been revised to providing and installing a P-Gate that swings open as per City of Ottawa F-10.

Question 10:

There is no Item for 1800mmx2400mm Outlet Structure at the pond.

Answer: Please see revised Pricing Schedule

Traffic Control

Question 11:

Also, confirm if any Utility Plants are required at the Tremblay Road or St Laurent Intersections.

Answer:

see change to pricing schedule - requesting unit prices for utility work

Question 12:

G4 Item - Traffic Control is already priced in both contracts. A28 in Contract I and A1 in Contract II. What is this item, please advise?

Answer:

Both Contract I and Contract II operate as their own independent agreements; as such, please price Contract I Traffic Controls to be inclusive for the duration of only Contract I, and price Contract II Traffic Controls to be included for the duration of only Contract II.

Question 13:

Can you please clarify the requirements for working and crossing St. Laurent road with regards to timing, and traffic management requirements. Are there closures permitted? Is it only to be done at night? Is to be done on the weekend? Please advise.

Answer:

Proponents must provide a Traffic Management Plan



Question 14:

Please identify the difference between the 3 different traffic control items. (I-A28, II-A01, and II-G04)

Answer:

Pricing schedule line items have been updated for clarity. Please note that Contract I and Contract II require different traffic control measures for each operation.

Question 15:

With the reconfigured intersection at Tremblay Road and St Laurent, we believe the existing traffic lights at St Laurent and Tremblay will need to be relocated. Work required will include putting everything on temporary, new ductwork, handholes, manholes, concrete foundations for the poles, traffic detector loops, Etc. There are no drawings detailing this work. Can you please verify that this work will be addressed as a change order?

Answer:

Signal Design and traffic detection loops are unknown in this area, as the design of this intersection is still underway. This electrical work, including all signal work and traffic detection loops, will be completed under separate contract.

Grading and Fill

Question 16:

Confirm the thickness of Topsoil throughout the Site.

Answer:

Based on our engineer's estimate of topsoil, we have assumed 6" across the entire site of required stripping. This is a unit price contract, and the actual stripped amount will be paid out.

Question 17:

The grading plan has two elevations, what is the bolded italic elevation on the Blocks.

Answer:

Please review the legend of the drawings for details.

Question 18:

Contract 1 – Item A21 is an item for engineered fill, however I am not clear as to where exactly this engineered fill is to be placed, and to what limits? Can we use existing material on site as engineered fill? Does it have to be imported material?

Answer:

There is a component of cut-to-fill completed with material on-site, and a component of placing imported fill material. These are items I-A20 and I-A21, respectively.

ESA Soil Remediation

Question 19:

A19 - Excavate and remove offsite unsuitable material. Please confirm if this material contaminated or not?

Answer:

Item A19 refers to contaminated material which must be removed off site. The unit price for this item must include all costs, fees and permits associated with the fill removal

Fencing, Gates, Curbs and Sidewalks

Question 20:

Please indicate where on the drawings is the proposed 1.5m chainlink fence in item II-F13.

Answer:

The proposed 1.5m chainlink fence as mentioned in Section II-F13 has been added to drawing G1.

Question 21:

What is to be included for item II-G07? The site trailer is already covered in items I-A35 and II-A13. Please advise.

Answer:

The Pricing Schedule has been updated accordingly. Section G has been removed entirely and all items previously listed within Section G are now included within Section A.

Question 22:

For 602199-02 Earth Works & Site Servicing – Tremblay Road – Tender Item IIF2, what is meant by “Construct the base section of the two stage concrete curbs

Answer:

Please note this is an error in the Pricing Schedule; this line item has been updated accordingly to match the engineering drawings. Please review Section II-A04.



Question 23:

There is no item for asphalt and curb/sidewalk reinstatement on St. Laurent and Tremblay. Under which item will this be paid?

Answer:

The Schedule of Additional Unit Prices has been updated to include a provisional item in the event some sidewalk is required to be completed at the intersection of Street 1 and St. Laurent Blvd or at Street 1/Street 2 and Existing Tremblay Road. All other sidewalk will be completed in a future contract.

Question 24:

Can you confirm that we are only to strip asphalt and curb within the contract limits and not on the PSPC Lands?

Answer:

Only strip asphalt and curb within the site boundaries, as indicated on the Engineering Drawings.

Approvals & Permits – Limit of Contract

Question 25:

Please advise what is different between "Do not extend" and "Not Carried" items in both contract.

Answer:

Please see revised Pricing Schedule - 'do not extend' and 'not carried' removed from schedule

Question 26:

Can CLC confirm that all required approvals and permits, including approvals for site servicing, as per Note 8 on Dwg. ESC4, have been obtained?

Answer:

Approvals and permits required for site have not been obtained

Question 27:

You are asking us to provide a temporary parking lot and construction staging area, can you please indicate where exactly this will be?

Answer:

Please see ESC for proposed temporary parking lot and construction staging area

Question 28:

Tender Item IIF11 is “Permits For Road Occupancy from the City. The quantity is 1 Lump Sum. Is this intended to be a cash allowance? If so, what dollar value did you want us to use? If not, who do we contact to get what this item will cost?

Answer:

Please see revised II F11 - Permits for Road Occupancy from the City

Question 29:

For the watermain section there is no item for the water permit. Normally there is an item in the contract for this, and a dollar value is specified by the client. Can you please confirm that Canada Lands will be making all arrangements for the permit?

Answer:

The water permit will be paid directly by the Owner.

Question 30:

Can you please confirm if the Blocks are to be Serviced because current the Drawings doesn't show services.

Answer:

The Blocks are not to be serviced.

Question 31:

Is the asphalt, curbs etc. along existing Tremblay Road to be removed?

Answer: All asphalt removal is to occur within the limits of construction as identified on drawing G1 unless otherwise specified by the Consultant. Existing Tremblay Road is not be removed.

Miscellaneous

Question 32:

Pricing schedule I has provisional items that are not extended. For Item 27 Asphalt grinding to 40mm depth, the unit of measure is by the metre. What width should we assume when pricing this?

Answer:

All longitudinal and transverse joints should be in accordance with OPSS 310. All joints should be staggered between asphalt lifts. Longitudinal joints should be milled back a distance of 300



mm at the specified 40 mm depth. Transverse joints should be milled back a distance of 500 mm at the specified 40 mm depth.

A tack coat should be placed on the milled surface and vertical face. All joints should be sealed with hot pour asphalt to prevent water infiltration. All surfaces should be thoroughly cleaned prior to application of the tack coat, and sufficient time should be allowed for curing of the tack coat prior to placement of the new hot mix asphalt.

Question 33:

General Note 18 on drawing NT1 calls for clay seals as per city standard drawing S8 however there is no item for clay seals. Is this a requirement?

Answer:

The Schedule of Additional Unit Prices has been updated to include a provisional fee for clay seals if required.

Question 34:

Section 4.2 on page 375 of the tender documents says that the contractor will be liable for any failure to complete the project on time, however I can't seem to find any liquidated damages in the tender documents. Please advise if there are any liquidated damages on this project, and if so how much are they?

Answer:

Please refer to Section 4.2 and Section 15.3 of the contract

Question 35:

Contract II Summary page: Item G is labeled as "Miscellaneous section" not "Schedule of additional unit price" as per the Summary Page. Section B - Schedule of Additional Unit Price, should be renamed (if required).

Answer:

The Pricing Schedule has been updated accordingly.

**SUMMARY OF CONTRACT PRICING
FOR
470 TREMBLAY ROAD**

CITY OF OTTAWA

ITEM	AMOUNT
CONTRACT I Earthworks and Remediation Work	<u>\$ -</u>
CONTRACT II Underground Site Servicing to Base Course Asphalt including Stormwater Management Pond	<u>\$ -</u>
SUB-TOTAL (LESS H.S.T.)	<u>\$ -</u>
Harmonized Sales Tax (13%)	<u>\$ -</u>
TOTAL TENDER PRICE	<u>\$ -</u>

**SCHEDULE OF CONTRACT PRICING
FOR
470 TREMBLAY ROAD**

**CONTRACT I:
EARTHWORKS AND REMEDIATION WORKS**

CITY OF OTTAWA

SUMMARY

ITEM	AMOUNT
A. SITE PREPARATION, TOPSOIL STRIPPING AND EARTHWORKS	\$ <u> -</u>
B. SCHEDULE OF ADDITIONAL UNIT PRICES	<u>DO NOT EXTEND</u>
SUB-TOTAL (LESS H.S.T.)	\$ <u> -</u>
Harmonized Sales Tax (13%)	\$ <u> -</u>
TOTAL TENDER PRICE	\$ <u> -</u>

Note: Prices tendered in Contract I shall be valid for the years 2021 and 2022.

A. SITE PREPARATION, TOPSOIL STRIPPING AND EARTHWORKS

ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE \$	TOTAL \$
	Supply all necessary materials, equipment, mobilization, demolition, traffic control and labour to perform the following work in accordance with the drawings and specifications and as directed by the Consultant. Unit prices shall include all items specified in the special conditions, specifications, project specifications, and the engineering plans.				
1	Pre-construction structural survey, photo survey, and conditions report for existing building located at 466 Tremblay Road.	1	Lump Sum		
2	Preparation of Construction Schedule, and keeping updated for the duration of the contract. Poor weather conditions and Saturday work to be allowed for in schedule milestones.	1	Lump Sum		
3	All survey works required to complete the works within the contract, as outlined in contract specification and conditions:				
	a) Construction Layout	1	Lump Sum		
	b) Topsoil Stripped grades	1	Lump Sum		
	c) Topsoil Stockpiles	1	Lump Sum		
	d) As-constructed Pregrade	1	Lump Sum		
4	Supply, install, maintain and remove (at the consultant's request) siltation control fence per OPSD 219.110 on drawing ESC4.	1,725	m		
5	Remove existing fence within the construction limit at the consultant's request:				
	a) Existing black chain-link fence.	770	m		
	b) Existing T-Bar and wire fence.	790	m		
6	Decommission and remove offsite all existing monitoring wells in alignment with current MECP standards, including all permitting and coordination with MECP.	19	each		
7	Clear all trees and vegetation as identified on Figure CG1 - Clearing and Grubbing Plan. All material to be disposed of offsite, including grubbing all tree stumps. All vegetation outside of the construction limits are to be protected.	1	Lump Sum		
8	For the duration of the Contract, supply, maintain and install temporary metal mudloc fencing around the adjacent development boundary northeast of the construction zone.	720	m		
9	Construct, maintain and remove (at the consultant's request) temporary mud mat per City standards.	2	each		

A. SITE PREPARATION, TOPSOIL STRIPPING AND EARTHWORKS (CONTINUED)					
ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
10	Construct temporary sedimentation ponds as shown on drawings ESC1 and ESC2 including hickenbottom drain, outlet pipe and spillway. Maintain through the entire duration of the contract, and ultimately remove and reinstate area to appropriate engineer-filled pregrade at the direction of the Engineer. Removal of sediment off-site.	1	Lump Sum		
11	Cut temporary diversion swales as per dwg. No ESC1, ESC2 and ESC3.	2,125	m		
12	Supply, place and maintain rock check dams as per OPSD 219.210 on dwg no. ESC4.	34	each		
13	Construct, maintain and remove (at the consultant's request) temporary 20x10m sediment trap ditches per OPSD 219.220 on drawing ESC4, including hickenbottom drains as required.	3	each		
14	Supply install and remove (at the consultant's request) temporary: a) 500mm CSP culvert (Provisional) b) 600mm CSP culvert (Provisional)	21 28	m m		
15	Supply, install, maintain and remove (at the consultant's request) catchbasin sediment trap as per detail on drawing ESC4.	19	each		
16	Construct and maintain 0.3m plunge pool complete with 50mm dia. clearstone fixed on Geotextile 270R.	1	each		
17	Strip topsoil as per the specifications and in alignment with the Pregrade Plan Figure. Stockpile within Block 5 and/or Block 8 with a maximum stockpile height of 3.0m and maximum side slopes of 2:1. Stabilize the stockpiles as required and provide boundary siltation control fence.	11,700	m ³		
18	Strip topsoil as per the specifications within the construction limit and dispose off site. (Provisional)	5,000	m ³		NOT CARRIED
19	Excavate and remove offsite unsuitable material at the direction of the Consultant, including transportation and disposal of material at a suitable landfill location. (Provisional)	13,365	m ³		
20	Cut to fill site including transport and placement to pregrade (balance line) elevations within the limits of the site and compaction to engineered fill standards. Item to include Third Party Geotechnical Compaction Testing as mentioned in the Contract Specifications.	18,300	m ³		
21	Import geotechnically appropriate, suitable material for engineered fill from offsite including a provision for load and haul route restrictions and including a provision for certification of material indicating its suitability. Material to be placed as fill and compacted to the recommendations of the Geotechnical Engineer and to the specified pregrade elevations. Import material to be sourced by the Proponent. Item to include Third Party Geotechnical Compaction Testing as mentioned in the Contract Specifications. (Provisional)	28,400	m ³		

A. SITE PREPARATION, TOPSOIL STRIPPING AND EARTHWORKS (CONTINUED)

ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
22	Fill and compact topsoil within the park block, all 3:1 sloping areas, and where engineered fill is not required, at the direction of the Consulting Engineer. Item to include Third Party Geotechnical Compaction Testing as mentioned in the Contract Specifications. (Provisional)	4,200	m ³		
23	Convert temporary sediment pond to ultimate pond design in pond block as shown on drawing ESC2 including hickenbottom drain, outlet pipe and spillway.	1	Lump Sum		
24	Supply and install erosion protection blankets to stabilize temporary swales as directed by the consultant (Provisional) .	2,125	m		DO NOT EXTEND
25	Mud and Dust control for the duration of the Contract.	1	Lump Sum		
26	Topographic survey with tie-in perimeter grades a minimum of 10 m from area of work.	1	Lump Sum		
27	Hydroseed stripped ground to stabilize inactive areas after 30 days of inactivity (Provisional) .	70,000	m ²		DO NOT EXTEND
28	Traffic Control - provide all necessary permits, traffic signage, traffic control devices, temporary line painting, delineators, and flag persons as required in accordance with the requirements of the City of Ottawa at all times during the duration of the Contract.	1	Lump Sum		
29	Remove existing asphalt pavement and curb.	1	Lump Sum		
30	Remove existing catchbasins and dispose off-site.	1	each		
31	Supply, install, and maintain temporary dead-end barricade as per OPSD 973.130 with no dumping signs.	2	each		
32	Remove temporary dead-end barricade as per OPSD 973.130 with no dumping signs.	2	each		NOT CARRIED
33	Supply, install, and maintain temporary concrete jersey barrier as per OPSD 911.180 for use as temporary sidewalk barricade.	2	each		
34	Remove temporary concrete jersey barrier as per OPSD 911.180 for use as temporary sidewalk barricade.	2	each		NOT CARRIED
35	For the duration of the Contract, provide a site trailer exclusively for the Client's use.	1	Lump Sum		
36	For the duration of the Contract, maintain and implement Health and Safety Measures in alignment with Provincial Standards throughout the duration of construction, including but not limited to site signage, wash stations, and site check-in protocol measures.	1	Lump Sum		

37	Construct a temporary parking lot and construction staging area that measures 50m x 50m:		
	a) Grade and shape subgrade as specified by the Geotechnical Consultant. (Provisional)	2,500	sq.m
	b) Provide, lay, and compact sub-base course of Granular 'B' over the area as specified by the Geotechnical Consultant, to a depth of 300mm. (Provisional)	750	cu.m
	c) Provide, lay, and compact sub-base course of Granular 'A' over the area as specified by the Geotechnical Consultant, to a depth of 200mm. (Provisional)	500	cu.m

SUB-TOTAL CARRIED FORWARD TO SUMMARY

\$ -

B. SCHEDULE OF ADDITIONAL UNIT PRICES						
ITEM	DESCRIPTION		UNIT	UNIT PRICE	TOTAL	
				\$		\$
	All items must be priced and requested percentages filled in. Failure to do so may invalidate the Pricing Schedule. Prices shall include all costs in carrying out the work prescribed in accordance with the Specifications and shall include or exclude Provincial and Federal Sales Taxes in accordance with the directions elsewhere.					
	All items in this section are provisional and shall be carried out as directed by the Consultant.					
	Prices submitted shall be valid until the end of 2021 and 2022 unless otherwise noted and shall be applicable regardless of final quantity.					
	This schedule of additional unit prices may be used by the Consultant to evaluate changes in the Work in accordance with items 12.1(b) and 12.1(c) of Article GC 12 of the General Conditions.					
1	Cut and place as fill topsoil from the stock pile		m ³			NOT EXTENDED
2	a) Excavate soft, unacceptable native ground to any depth and spread to dry at the direction of the Consultant and Geotechnical Consultant and replace with engineered fill from within the construction limit.		m ³			NOT EXTENDED
	b) Excavate soft, unacceptable native ground to any depth and spread to dry within 150 m at the direction of the Consultant and Geotechnical Consultant and replace with dried material within the construction limit to engineered fill standards.		m ³			NOT EXTENDED
	c) Excavate soft, unacceptable native ground to any depth and spread to dry at the direction of the Consultant and Geotechnical Consultant and dispose material off-site and replace with engineered fill from within the construction limit.		m ³			NOT EXTENDED
	d) Excavate soft, unacceptable native ground to any depth and spread to dry at the direction of the Consultant and Geotechnical Consultant and replace with imported engineered fill.		m ³			NOT EXTENDED
	e) Excavate soft, unacceptable native ground to any depth and spread to dry within 150 m at the direction of the Consultant and Geotechnical Consultant and replace with imported dried material to engineered fill standards.		m ³			NOT EXTENDED
	f) Excavate soft, unacceptable native ground to any depth and spread to dry at the direction of the Consultant and Geotechnical Consultant and dispose material off-site and replace with imported engineered fill.		m ³			NOT EXTENDED
	g) Excavate fragmented, unacceptable bedrock that can be excavated using standard excavation practices to any depth and remove and dispose of the material off-site.		m ³			NOT EXTENDED
	h) Blast and fragment bedrock as required to allow for the excavation of the bedrock to any depth and remove and dispose of the material off-site.		m ³			NOT EXTENDED
	i) Hoe ram and fragment bedrock as required to allow for the excavation of the bedrock to any depth and remove and dispose of the material off-site.		m ³			NOT EXTENDED

	j) Prepare and provide a blast survey for any blasting work completed.			each		NOT EXTENDED
3	Spread, place and compact suitable material imported by others as engineered fill at the request of the owner to assist completion of regarding in any location.			m ³		NOT EXTENDED
4	Excavate additional material at the direction of the Consultant and stockpile within the construction limit.			m ³		NOT EXTENDED

5	Supply, place, grade and compact at any location as directed by the Consultant:				
	a) Granular A			tonne	NOT EXTENDED
	b) Granular B			tonne	NOT EXTENDED
	c) 20mm clear limestone			tonne	NOT EXTENDED
	d) 50mm clear limestone			tonne	NOT EXTENDED
	e) 20 mm crusher run limestone			tonne	NOT EXTENDED
	f) 50 mm crusher run limestone			tonne	NOT EXTENDED
	g) 150 mm Rip-rap stone			tonne	NOT EXTENDED
	h) 300 mm Rip-rap stone			tonne	NOT EXTENDED
6	Dispose off-site rubble, garbage, debris, fencing and boulders at a location arranged by the contractor			tonne	NOT EXTENDED
7	Remove and dispose off site any field tile material that is encountered during the earthworks program			m	NOT EXTENDED
8	Hydroseed areas where requested by the consultant using "Soil Stabilizer" mix by Pickseed (include required topsoil):				
	a) Topsoil stockpiles			m ²	NOT EXTENDED
	b) Areas of exposed native clay			m ²	NOT EXTENDED
	c) Areas of exposed fill			m ²	NOT EXTENDED
9	Additional water for dust control			hr	NOT EXTENDED
10	Removal and disposal of large boulders offsite			tonne	NOT EXTENDED
11	Removal of non-contaminated mixed debris			m ³	NOT EXTENDED
12	Remove and dispose offsite material dumped by others			tonne	NOT EXTENDED
13	Installation of erosion control measures further to those specified in the contract and drawings:				
	a) Repair and stabilization of eroded slopes			m ²	NOT EXTENDED
	b) Installation of sod on slopes at the direction of the Consultant			m ²	NOT EXTENDED
	c) Installation of Terraseed slopes at the direction of the Consultant			m ²	NOT EXTENDED
	d) Supply, erect and maintain heavy duty siltation control fence			m	NOT EXTENDED
	e) Supply, erect and maintain .double siltation control fence			m	NOT EXTENDED
	f) Supply, place, maintain, and remove (at the consultant's request) rock check dams			each	NOT EXTENDED
	g) Supply, place, maintain, and remove (at the consultant's request) straw bale check dams			each	NOT EXTENDED
14	Repair of erosion and sediment control measures after completion of the contract				
	a) Replacement of sediment fence post			each	NOT EXTENDED
	b) Removal and replacement of damaged sediment fence			m	NOT EXTENDED
	c) Repair and stabilization of eroded slopes			m ²	NOT EXTENDED
	d) Installation of sod on slopes at the direction of the Consultant			m ²	NOT EXTENDED
	e) Installation of Terraseed slopes at the direction of the Consultant			m ²	NOT EXTENDED
15	Remove siltation control fencing and dispose offsite.			m	NOT EXTENDED
16	Repair temporary dead-end barricade as per OPSD 973.130 with no dumping signs.			each	NOT EXTENDED
17	Remove temporary concrete jersey barrier as per OPSD 911.180 for use as temporary sidewalk barricade.			each	NOT EXTENDED

**SCHEDULE OF CONTRACT PRICING
FOR
470 TREMBLAY ROAD**

**CONTRACT II:
UNDERGROUND SITE SERVICING TO BASE COURSE ASPHALT
INCLUDING STORMWATER MANAGEMENT POND WORKS**

CITY OF OTTAWA

SUMMARY

ITEM	AMOUNT
A. SITE PREPARATION	<u>\$ -</u>
B. SANITARY SEWERS AND APPURTENANCES	<u>\$ -</u>
C. STORM SEWERS AND APPURTENANCES	<u>\$ -</u>
D. WATERMANS AND APPURTENANCES	<u>\$ -</u>
E. STORMWATER MANAGEMENT FACILITY	<u>\$ -</u>
F. ROADS TO BASE COURSE ASPHALT	<u>\$ -</u>
G. SCHEDULE OF ADDITIONAL UNIT PRICES	<u>DO NOT EXTEND</u>
SUB-TOTAL (LESS H.S.T.)	<u>\$ -</u>
Harmonized Sales Tax (13%)	<u>\$ -</u>
TOTAL TENDER PRICE	<u>\$ -</u>

Note: Prices tendered in Contract II shall be valid for the year 2021 and 2022.

A. SITE PREPARATION

ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE \$	TOTAL \$
	Supply all necessary materials, equipment, mobilization, demolition, traffic control and labour to perform the following work in accordance with the drawings and specifications and as directed by the Consultant. Unit prices shall include all items specified in the special conditions, specifications, project specifications, and the engineering plans. All erosion and sediment measures to be functional and maintained until completion of Contract II.				
1	Traffic Controls				
	a) Prepare and provide a Traffic Control Plan in alignment with City of Ottawa specifications F-1010 and F-1012.	1	Lump Sum		
	b) Prepare and provide a Construction Site Pedestrian Control Plan in alignment with City of Ottawa specifications F-1012 and F-1013.	1	Lump Sum		
	c) Provide all necessary permits, traffic signage, traffic control devices, temporary line painting, delineators, and flag persons as required in accordance with the requirements of the City of Ottawa at all times during the duration of the Contract. This shall include Police Assistance at intersections as per City of Ottawa F-1012 as required.	1	Lump Sum		
2	Assume, maintain, and repair all siltation within the construction limits as per drawings ESC1 to ESC4 for the duration of the contract and including all warranty periods.	1,725	m		
3	Assume, maintain, and repair all other erosion protection within the construction limit as per drawings ESC1 to ESC4 including mud and dust control for the duration of the contract and including all warranty periods.	1	Lump Sum		
4	Remove and dispose offsite all fencing around perimeter of the site limit when works are completed and at the direction of the Consultant or City.	1,725	m		
5	Preparation of Construction Schedule, and keeping updated for the duration of the contract. Poor weather conditions and Saturday work to be allowed for in schedule milestones.	1	Lump Sum		
6	All survey works required to complete the works within the contract, as outlined in contract specification and conditions:				
	a) Construction Layout	1	Lump Sum		
	b) As-constructed base-course asphalt survey of roads	1	Lump Sum		
	c) Pregrade survey of development blocks following post-servicing lot cleanup restoration to pregrade. Elevations to be provided at all lot corners, changes in grade, on a maximum 15m by 15m grid and as required per the Special Conditions and Specifications.	1	Lump Sum		
7	Complete all as-builts per the City of Ottawa requirements, the Project Specifications, and Special Conditions.	1	Lump Sum		
8	Maintain and remove temporary mud mat per City standards.	2	each		

9 Maintain and remove temporary 20x10m sediment trap ditches per OPSD 219.220 on drawing ESC4, including hickenbottom drains as required. 3 each

A. SITE PREPARATION (CONTINUED)

ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
10	Maintain and remove at the Consultant's request temporary: a) 500mm CSP culvert (Provisional) b) 600mm CSP culvert (Provisional)	21 28	m m		
44	Supply, install, maintain and remove catchbasin sediment trap as per detail on dwg no. ESC4.	49	each		
12	Mud and Dust control for the duration of the Contract.	1	Lump Sum		
13	For the duration of the Contract, provide a site trailer exclusively for the Client's use.	1	Lump Sum		
14	For the duration of the Contract, maintain and implement Health and Safety Measures in alignment with Provincial Standards throughout the duration of construction, including but not limited to site signage, wash stations, and site check-in protocol measures.	1	Lump Sum		
15	Supply and install temporary block drain as shown on drawing	4	each		
16	Supply, install, maintain and remove (at the Consultant's request) catchbasin sediment traps as per detail on drawing ESC4.	42	each		
17	Construct Concrete Toe Wall as per OPSD 3120.100 complete with guide rail as per City of Ottawa specification F1.	193	m		
SUB-TOTAL CARRIED FORWARD TO SUMMARY					\$ -

B. SANITARY SEWERS AND APPURTENANCES

Supply all necessary materials, equipment and labour to perform the following work as per the drawings and specifications and as directed by the Engineer.

- 1 Construct the following sanitary sewers with storm sewers including all necessary excavation, bedding, backfill, compaction to 98% SPDD, with spacing as shown on the Engineering plans.

Street Name	Manhole No.		Pipe Dia. (mm)	Type/Class	Average	Estimated	Notes	Unit Price \$	Total \$
	From	To.			Depth ⁽¹⁾ (m)	Length (m)			
BLOCK 5	114A	113A	200	SDR-35	4.0	13.0	(1)		
STREET '2'	113A	112A	250	SDR-35	4.3	49.9	(1)		
STREET '2'	PLUG	112A	250	SDR-35	4.6	8.5	(1)		
STREET '2'	112A	111A	250	SDR-35	5.0	116.9	(1)		
STREET '2'	111A	110A	250	SDR-35	4.8	107.7	(1)		
STREET '2'	110A	EX MH SAN4	250	SDR-35	4.3	8.9	(1)		
STREET '1'	109A	108A	250	SDR-35	4.4	61.3	(1)		
STREET '1'	108A	107A	250	SDR-35	4.3	118.6	(1)		
STREET '1'	107A	EX MH SAN3	250	SDR-35	4.2	29.6	(1)		
STREET '1'	105A	104A	250	SDR-35	4.2	25.6	(1)		
STREET '1'	104A	103A	250	SDR-35	4.4	99.1	(1)		
STREET '1'	103A	102A	250	SDR-35	4.7	30.2	(1)		
STREET '1'	102A	101A	250	SDR-35	4.0	87.8	(1)		
STREET '1'	101A	100A	250	SDR-35	3.1	17.8	(1)		

(1) Average depth is measured from invert to finished road elevation.

2 Standard Manholes

Supply all necessary materials, equipment and labour to perform the following work in accordance with the drawings specifications, City Standards and as directed by the Consultant.

Construct the following **sanitary** manholes including, frames and covers, steps, benching, safety platforms and bulkheads in accordance with the drawings and specifications and as directed by the Consultant. For backfill and compaction, refer to Geotechnical report. Watertight joints per City standards.

Street Name	Manhole Number	Notes	Detail Drawing No.	Depth to Top ⁽¹⁾ of Concrete (m)	Chamber Size (mm)	Estimated Quantity	Unit	Unit Price \$	Total \$
BLOCK 5	114A	(1)	OPSD 701.010	4.0	1200	1	each		
STREET '2'	113A	(1)	OPSD 701.010	4.1	1200	1	each		
STREET '2'	112A	(1)	OPSD 701.010	4.7	1200	1	each		
STREET '2'	111A	(1) (3)	OPSD 701.010	5.3	1200	1	each		
STREET '2'	110A	(1)	OPSD 701.010	4.2	1200	1	each		
STREET '1'	109A	(1)	OPSD 701.010	4.1	1200	1	each		
STREET '1'	108A	(1) (3)	OPSD 701.010	4.6	1200	1	each		
STREET '1'	107A	(1)	OPSD 701.010	4.1	1200	1	each		
STREET '1'	105A	(1)	OPSD 701.010	4.3	1200	1	each		
STREET '1'	104A	(1)	OPSD 701.010	4.2	1200	1	each		
STREET '1'	103A	(1)	OPSD 701.010	4.6	1200	1	each		
EX. TREMBLAY ROAD	102A	(1)	OPSD 701.010	4.8	1200	1	each		
EX. TREMBLAY ROAD	101A	(1)	OPSD 701.010	3.2	1200	1	each		
EX. TRIOLE STREET	100A	(1)	OPSD 701.010	3.4	1200	1	each		

(1) Depth of manhole is measured from the lowest invert to top course asphalt elevation.

(2) Include drop structure(s) per engineering drawings.

(3) Include safety platform(s) per engineering drawings.

B. SANITARY SEWERS AND APPURTENANCES (CONTINUED)

ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE \$	Total \$
3	Connect new sewer into existing sanitary manhole and re-bench to City of Ottawa standards	3	each		
4	Supply and install 250mm dia sanitary plug for future sanitary connection Per City of Ottawa Standards.	1	each		
5	Flushing of all sanitary sewers. Re-flush of all sanitary sewers as necessary until free of debris. CCTV inspection to follow upon flushing. CCTV inspection to be redone once sanitary sewer is free of debris.	775	m		
SUB-TOTAL CARRIED FORWARD TO SUMMARY					\$ -

C. STORM SEWERS AND APPURTENANCES

Supply all necessary materials, equipment and labour to perform the following work in accordance with the drawings and specifications as directed by the Consultant.

- 1 Construct the following **storm** sewers with sanitary sewers including all necessary excavation, bedding, backfill, compaction to 98% SPDD, with spacing as shown on the Engineering plans.

Street Name	Manhole No.		Pipe Dia. (mm)	Type/Class	Average Depth ⁽¹⁾ (m)	Estimated Length (m)	Notes	Unit Price \$	Total \$
	From	To.							
STREET '2'	112	111	375	SDR-35	1.6	10.0	(1)		
STREET '2'	111	110	600	CL-65D	2.6	95.5	(1)		
STREET '2'	110	109	750	CL-65D	3.4	115.9	(1)		
STREET '2'	PLUG	109	525	CL-65D	3.2	6.5	(1)		
STREET '2'	109	107	1,050	CL-65D	3.4	53.9	(1)		
STREET '2'	108	107	300	SDR-35	2.7	12.0	(1)		
STREET '2'	107	105	1,050	CL-65D	3.4	26.7	(1)		
EX. TREMBLAY ROAD	DCB 204	DCB 203	450	SDR-35	1.6	0.3	(1)		
EX. TREMBLAY ROAD	DCB 203	DCB 202	450	SDR-35	1.6	0.3	(1)		
EX. TREMBLAY ROAD	DCB 202	DCBMH 201	450	SDR-35	1.6	1.4	(1)		
EX. TREMBLAY ROAD	DCBMH 201	118	600	CL-65D	1.8	3.2	(1)		
STREET '1'	118	117	1,200	CL-65D	2.6	9.9	(1)		
STREET '1'	117	106	1,350	CL-65D	3.4	107.1	(1)		
STREET '1'	106	105	1,350	CL-65D	3.8	108.7	(1)		
STREET '1'	105	104	1,650	CL-65D	3.8	89.0	(1)		
STREET '1'	104	103	1,650	CL-65D	3.5	81.2	(1)		
STREET '1'	103	102	1,650	CL-65D	3.2	54.4	(1)		
STREET '1'	119	102	300	SDR-35	1.7	49.5	(1)		
BLOCK 7	102	HW1	1,650	CL-65D	2.3	24.1	(1)		
BLOCK 7	HW2	101	525	CL-65D	3.0	6.8	(1)		
BLOCK 7	101	HW3	525	CL-65D	3.3	28.2	(1)		

(1) Average depth is measured from invert to finished road elevation.

- 2 Storm Manholes - Construct the following storm manholes including, frames and covers, steps, benching, safety platforms and half-depth bulkheads in accordance with the drawings and specifications and as directed by the Consultant. For backfill and compaction, refer to Geotechnical report.

Street & Drawing No.	Manhole Number	Notes	Detail Drawing No.	Depth to Top ⁽¹⁾ of Concrete (m)	Chamber Size (mm)	Est. Quantity	Unit Price \$	Total \$
EX. TREMBLAY ROAD	118	(1)	OPSD 701.013	2.4	2400	1		
STREET '1'	117	(1)	OPSD 701.013	3.0	2400	1		
STREET '2'	112	(1)	OPSD 701.010	1.5	1200	1		
STREET '2'	111	(1)	OPSD 701.011	2.0	1500	1		
STREET '2'	110	(1)	OPSD 701.012	3.4	1800	1		
STREET '2'	109	(1)	OPSD 701.013	3.5	2400	1		
BLOCK 5	108	(1)	OPSD 701.010	2.7	1200	1		
STREET '2'	107	(1)	OPSD 701.012	3.4	1800	1		
STREET '1'	106	(1)	OPSD 701.014	3.8	3000	1		
STREET '2'	105	(1)	OPSD 701.015	3.9	3600	1		
STREET '1'	104	(1)	OPSD 701.014	3.6	3000	1		
STREET '1'	103	(1)	OPSD 701.014	3.4	3000	1		
BLOCK 7	102	(1)	OPSD 701.015	2.9	3600	1		
BLOCK 7	101	(1)	OPSD 701.011	2.1	1500	1		
EX. TREMBLAY ROAD	DCBMH 201	(1)	OPSD 701.011	1.8	1500	1		

(1) Depth of manhole is measured from the lowest invert to top course asphalt elevation.

(2) Include drop structure(s) per engineering drawings.

(3) Include safety platform(s) per engineering drawings.

C. STORM SEWERS AND APPURTENANCES (CONTINUED)

ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE \$	Total \$
3	Supply and install thermal insulation for storm sewers with less than 2m cover per OPSD 1109.030 as shown on dwg no. NT1.	390	m		
4	a) Install single catchbasin per most recent OPSD and OPSS requirements including lead (SDR-28), ICD and risers as required, complete with: Frame and cover per City Std S19.1 (perforated)	9	each		
	b) Install single catchbasin per most recent OPSD and OPSS requirements including lead (SDR-28), ICD and risers as required, complete with: Frame and cover per City Std S22 and S23 (curb inlet)	12	each		
	c) Install double catchbasin per most recent OPSD, and OPSS requirements including lead (SDR-28), ICD and risers as required, complete with: Frame and cover per City Std S19.1 (perforated)	4	each		
	d) Install double catchbasin per most recent OPSD, and OPSS requirements including lead (SDR-28), ICD and risers as required, complete with: Frame and cover per City Std S22 and S23 (curb inlet)	1	each		
5	a) Install DICB per most recent OPSD and OPSS requirements including lead (SDR-28) and risers as required, complete with: Frame and cover per City Std S19.1 (perforated)	5	each		
	b) Install temporary DICB per most recent OPSD and OPSS requirements including lead (SDR-28) and risers as required, complete with: Frame and cover per City Std S19.1 (perforated)	1	each		
6	Supply and install 525mm dia storm plug for future storm connection Per City of Ottawa Standards.	1	each		
7	Cut and cap existing 400mm dia. storm sewer on Ex Tremblay Road. Abandon existing 300mm dia. and 400mm dia. sewers, catchbasins and leads upstream of the cap.	1	Lump Sum		
8	Flushing of all storm sewers. Re-flush of all storm sewers as necessary until free of debris. CCTV inspection to follow upon flushing. CCTV inspection to be redone once storm sewer is free of debris.	885	m		
9	Complete the grading of the bioswale within boulevard, per detail drawing D4. (Provisional)	118	m		
SUB-TOTAL CARRIED FORWARD TO SUMMARY					\$ -

D. WATERMAINS AND APPURTENANCES

Supply all necessary materials, equipment and labour to perform the following work in accordance with the drawings and specifications and as directed by the Consultant.

ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE \$	TOTAL \$
1	Construct watermain to the current City of Ottawa Standards and Specifications for Watermains, including fittings, blow-offs, reducers, thrust blocks, tracer wire, tie rods, sacrificial anodes, bedding and backfill, mechanical restraints on all joints and temporary plugs: a) 200 mm diameter b) 300mm diameter	228 630	m m		
2	Supply and install main-line water valves per engineering drawings a) 200mm Valve & Box b) 300mm Valve & Box c) 400mm Valve & Box	2 6 1	each each each		
3	Supply and install hydrants complete with 150mm lead, shut-off valve and valve box, per City of Ottawa standards.	8	each		
4	Connect to existing watermain by others including restoration as necessary, per City of Ottawa standards as outlined on the Watermain Commissioning Plan: a) 400mm diameter watermain (St Laurent Boulevard) b) 300mm diameter watermain (Ex Tremblay Road)	1 2	each each		
5	Supply and install 150mm dia. water service connections c/w V&Bs and other appurtenances for Block 5 per City of Ottawa Standard	1	each		
6	Supply and install 300mm dia plug for future watermain connection per City of Ottawa Standards.	1	each		
7	Hydrostatic testing, disinfection, swabbing and flushing of all watermains to City of Ottawa standards and specifications.	1	Lump Sum		
8	Additional hydrostatic testing, disinfection, swabbing and flushing of all watermains to City of Ottawa standards and specifications.	25	m		NOT CARRIED
SUB-TOTAL CARRIED FORWARD TO SUMMARY				\$	-

E. STORMWATER MANAGEMENT POND

ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE \$	TOTAL \$
	Supply all necessary materials, equipment, mobilization, demolition, traffic control and labour to perform the following work in accordance with the drawings and specifications and as directed by the Consultant. Unit prices shall include all items specified in the special conditions, specifications, project specifications, and the engineering plans.				
1	Supply and install headwall for 1650mm dia. storm sewer as per OPSD 804.040 with grating as per OPSD 804.050 as shown on dwg no. SWM1.	1	each		
2	Supply and install headwall for 525mm dia. storm sewer as per OPSD 804.030 with grating as per OPSD 804.050 as shown on dwg no. SWM1.	2	each		
3	Construct 6m wide Overland Flow Route c/w 500mm of 300mm dia. riprap on Geotextile Terrafix 270R s per dwg no. SWM1.	22	m		
4	Construct 20m wide emergency spillway with geoweb or approved equivalent as per dwg no. SWM1.	55	m		
5	Construct 5m wide access road as per dwg no. SWM1 and SWM2.	200	m		
6	Specify and install retaining wall as per dwg no. SWM1. Retaining Wall type and design to be specified by the Contractor and approved by City of Ottawa and the Engineering Consultant prior to construction. Railing to be installed as per City of Ottawa Standards.	25	m		
7	Construct 1.0m flat bottom outlet channel as per dwg no. SWM1.	65	m		
8	Install pond liner as per recommendations of Geotechnical Engineer.	3490	m ²		
9	Supply and install bollards as per dwg no. SWM1.	6	each		
10	Supply and install pond warning signage as per dwg no. SWM1.	1	lump sum		
11	Supply and install a P-Gate at the storm facility access road entry way as located on drawing SWM1 and as per City of Ottawa Standard F-10.	1	lump sum		
12	Supply and install the 1800mm by 2400mm SWM Pond Outlet Structure as outlined on drawing SWM3.	1	lump sum		
SUB-TOTAL CARRIED FORWARD TO SUMMARY					\$ -

F. ROADS TO BASE COURSE ASPHALT

Supply all necessary materials, equipment and labour to perform the following work in accordance with the drawings and specifications and as directed by the Consultant.

ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE \$	TOTAL \$
1	Fine grade to shape subgrade and boulevards over the width of the road allowance, and compact subgrade over the full pavement width plus 0.3 m beyond the back of curb on each side, unless otherwise specified by Geotechnical Consultant.				
	a) 18.0 m R.O.W.	221	m		
	b) 20.0 m R.O.W.	87	m		
	c) 26.0 m R.O.W.	492	m		
2	Provide, lay and compact sub-base course of Granular 'B' over the full pavement width plus 0.3m beyond back of curb as per City/Geotechnical recommendations				
	a) to a final compacted depth of 300mm (18.0 m R.O.W.)	2,130	m ²		
	b) to a final compacted depth of 300mm (20.0 m R.O.W.)	765	m ²		
	c) to a final compacted depth of 500mm (26.0 m R.O.W.)	5,550	m ²		
3	Supply and install 150mm dia. PVC subdrains with filter cloth per OPSD 216.021 & dwg. No. D2 beneath all curbs.	1,635	m		
4	a) Construct concrete barrier curb with standard gutter as per OPSD 600.040	1,650	m		
	b) Construct concrete semi-mountable depressed curb with standard gutter at lay-by parking locations as per OPSD 600.060	95	m		
	c) Construct concrete semi-mountable depressed curb with standard gutter at lay-by parking locations as per OPSD 600.060 (Provisional).	130	m		
5	Regulate sub-base course to proper grade, supply, lay and compact base course of Granular 'A'				
	a) to a final compacted depth of 200mm (18.0 m R.O.W.)	1,865	m ²		
	b) to a final compacted depth of 200mm (20.0 m R.O.W.)	740	m ²		
	c) to a final compacted depth of 150mm (26.0 m R.O.W.)	5,250	m ²		
6	Raise frames and covers to base course asphalt level including step adjustments as required per City standards.				
	a) manholes	27	each		
	b) single catchbasins	21	each		
	c) double catchbasins	2	each		
	d) 200mm Valve and Box	2	each		
	e) 300mm Valve and Box	6	each		
	f) 400mm Valve and Box	1	each		
7	Provide, lay and compact HL8 asphalt base course in accordance with specifications over the full pavement width to a compacted depth as noted or as otherwise specified by the Geotechnical Consultant.				
	a) to a compacted depth of 50mm (18.0 m R.O.W.)	1,865	m ²		
	b) to a compacted depth of 50mm (20.0 m R.O.W.)	740	m ²		
8	Provide, lay and compact SP19 asphalt base course compacted in maximum 50mm layers in accordance with specifications over the full pavement width to a compacted depth as noted or as otherwise specified by the Geotechnical Consultant.				
	a) to a final compacted depth of 100mm (26.0 m R.O.W.)	5,250	m ²		

F. ROADS TO BASE COURSE ASPHALT (CONTINUED)

ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
9	Match new asphalt to asphalt by others including saw cutting, grind a 0.30m wide strip to 40 mm depth lap joint and seal.	1	Lump Sum		
11	Permits for road occupancy from the City.	1	Lump Sum		
12	Supply and install all temporary traffic control signage on streets after construction of base asphalt, including removal.				
	a) Stop Signs (Ra-1)	4	each		
	b) Street Name Signs	5	each		
	c) Unassumed Road Signs	3	each		
13	Provide and install 1.5m high black vinyl chain link fence as per the Engineering Drawings.	560	m		
SUB-TOTAL CARRIED FORWARD TO SUMMARY					\$ -

G. SCHEDULE OF ADDITIONAL UNIT PRICES						
ITEM	DESCRIPTION		UNIT	UNIT PRICE	TOTAL	
				\$		\$
	All items must be priced and requested percentages filled in. Failure to do so may invalidate the Pricing Schedule. Prices shall include all costs in carrying out the work prescribed in accordance with the Specifications and shall include or exclude Provincial and Federal Sales Taxes in accordance with the directions elsewhere.					
	All items in this section are provisional and shall be carried out as directed by the Consultant.					
	Prices submitted shall be valid until the end of 2021 and 2022 unless otherwise noted and shall be applicable regardless of final quantity.					
	This schedule of additional unit prices may be used by the Consultant to evaluate changes in the Work in accordance with items 12.1(b) and 12.1(c) of Article GC 12 of the General Conditions.					
1	Cut and place as fill topsoil from the stock pile		m ³			NOT EXTENDED
2	a) Excavate soft, unacceptable native ground to any depth and spread to dry at the direction of the Consultant and Geotechnical Consultant and replace with engineered fill from within the construction limit.		m ³			NOT EXTENDED
	b) Excavate soft, unacceptable native ground to any depth and spread to dry within 150 m at the direction of the Consultant and Geotechnical Consultant and replace with dried material within the construction limit to engineered fill standards.		m ³			NOT EXTENDED
	c) Excavate soft, unacceptable native ground to any depth and spread to dry at the direction of the Consultant and Geotechnical Consultant and dispose material off-site and replace with engineered fill from within the construction limit.		m ³			NOT EXTENDED
	d) Excavate soft, unacceptable native ground to any depth and spread to dry at the direction of the Consultant and Geotechnical Consultant and replace with imported engineered fill.		m ³			NOT EXTENDED
	e) Excavate soft, unacceptable native ground to any depth and spread to dry within 150 m at the direction of the Consultant and Geotechnical Consultant and replace with imported dried material to engineered fill standards.		m ³			NOT EXTENDED
	f) Excavate soft, unacceptable native ground to any depth and spread to dry at the direction of the Consultant and Geotechnical Consultant and dispose material off-site and replace with imported engineered fill.		m ³			NOT EXTENDED
	g) Excavate fragmented, unacceptable bedrock that can be excavated using standard excavation practices to any depth and remove and dispose of the material off-site.		m ³			NOT EXTENDED
	h) Blast and fragment bedrock as required to allow for the excavation of the bedrock to any depth and remove and dispose of the material off-site.		m ³			NOT EXTENDED
	i) Hoe ram and fragment bedrock as required to allow for the excavation of the bedrock to any depth and remove and dispose of the material off-site.		m ³			NOT EXTENDED

	j) Prepare and provide a blast survey for any blasting work completed.			each		NOT EXTENDED
3	Spread, place and compact suitable material imported by others as engineered fill at the request of the owner to assist completion of regarding in any location.			m ³		NOT EXTENDED
4	Excavate additional material at the direction of the Consultant and stockpile within the construction limit.			m ³		NOT EXTENDED

5	Supply, place, grade and compact at any location as directed by the Consultant:				
a)	Granular A			tonne	NOT EXTENDED
b)	Granular B			tonne	NOT EXTENDED
c)	20mm clear limestone			tonne	NOT EXTENDED
d)	50mm clear limestone			tonne	NOT EXTENDED
e)	20 mm crusher run limestone			tonne	NOT EXTENDED
f)	50 mm crusher run limestone			tonne	NOT EXTENDED
g)	150 mm Rip-rap stone			tonne	NOT EXTENDED
h)	300 mm Rip-rap stone			tonne	NOT EXTENDED
6	Excavate unsuitable native material under sewer bedding and cast on adjacent lots as directed by the Consultant and replace with material as per Geotechnical recommendation, compacted to 98% SPD.			m ³	NOT EXTENDED
7	Excavate unsuitable subgrade material in road area and dispose surplus material on adjacent lots as directed by Consultant.			m ³	NOT EXTENDED
8	Excavate unsuitable subgrade in road area and place on adjacent lots to dry. Load and place dry material back in roadway.			m ³	NOT EXTENDED
9	Install temporary Jersey barriers from streetline to streetline complete with reflective dead end sign. Price to include removal off-site when directed by the Consultant.			each	NOT EXTENDED
10	Dispose off-site rubble, garbage, debris, fencing and boulders at a location arranged by the contractor			tonne	NOT EXTENDED
11	Remove and dispose off site any field tile material that is encountered during the earthworks program			m	NOT EXTENDED
12	Hydroseed areas where requested by the consultant using "Soil Stabilizer" mix by Pickseed (include required topsoil):				
a)	Topsoil stockpiles			m ²	NOT EXTENDED
b)	Areas of exposed native clay			m ²	NOT EXTENDED
c)	Areas of exposed fill			m ²	NOT EXTENDED
13	Additional water for dust control			hr	NOT EXTENDED
14	Removal and disposal of large boulders offsite			tonne	NOT EXTENDED
15	Removal of non-contaminated mixed debris			m ³	NOT EXTENDED
16	Remove and dispose offsite material dumped by others			tonne	NOT EXTENDED
17	Installation of erosion control measures further to those specified in the contract and drawings:				
a)	Repair and stabilization of eroded slopes			m ²	NOT EXTENDED
b)	Installation of sod on slopes at the direction of the Consultant			m ²	NOT EXTENDED
c)	Installation of Terraseed slopes at the direction of the Consultant			m ²	NOT EXTENDED
d)	Supply, erect and maintain heavy duty siltation control fence			m	NOT EXTENDED
e)	Supply, erect and maintain .double siltation control fence			m	NOT EXTENDED
f)	Supply, place, maintain, and remove (at the consultant's request) rock check dams			each	NOT EXTENDED
g)	Supply, place, maintain, and remove (at the consultant's request) straw bale check dams			each	NOT EXTENDED

18	Repair of erosion and sediment control measures after completion of the contract				
	a) Replacement of sediment fence post			each	NOT EXTENDED
	b) Removal and replacement of damaged sediment fence			m	NOT EXTENDED
	c) Repair and stabilization of eroded slopes			m ²	NOT EXTENDED
	d) Installation of sod on slopes at the direction of the Consultant			m ²	NOT EXTENDED
	e) Installation of Terraseed slopes at the direction of the Consultant			m ²	NOT EXTENDED
19	Remove siltation control fencing and dispose offsite.			m	NOT EXTENDED
20	Repair temporary dead-end barricade as per OPSD 973.130 with no dumping signs.			each	NOT EXTENDED
21	Remove temporary concrete jersey barrier as per OPSD 911.180 for use as temporary sidewalk barricade.			each	NOT EXTENDED
22	Supply and place concrete sewer bedding including brick support of sewers prior to placement.				
	a) 0.4 MPa unshrinkable fill			m ³	NOT EXTENDED
	b) 20 MPa Concrete			m ³	NOT EXTENDED
23	Supply and place 150 mm to 300 mm thick Rip-Rap including filter fabric (Terrafix 300R or equivalent, maximum EOS 50), including pregrading as directed by Consultant.			m ²	NOT EXTENDED
24	Adjust hydrants as directed by Consultant				
	a) raise 150 mm			each	NOT EXTENDED
	b) raise 300 mm			each	NOT EXTENDED
25	Remove damaged asphalt off-site and supply and place base asphalt, including grinding or planning to match existing roads (where not included in pricing already).			tonne	NOT EXTENDED
26	a) Remove damaged curb and gutter within development limit, including off-site disposal.			m	NOT EXTENDED
	b) Remove and replace damaged curb and gutter within development limit, including off-site disposal and restoration of boulevard and pavement.			m	NOT EXTENDED
	c) Remove sidewalk as directed by the consultant, including off-site disposal.			m	NOT EXTENDED
27	Asphalt grinding to 40mm depth.			m	NOT EXTENDED
28	Flush and clean sewers prior to builder activity.			m	NOT EXTENDED
29	Clean and pump catchbasins.				
	a) single catchbasin			each	NOT EXTENDED
	b) double catchbasin			each	NOT EXTENDED
30	Repaint hydrants, at the end of maintenance period, to Municipal standards.			each	NOT EXTENDED
31	Provide and install new frame and grates as per applicable OPSD standards.				
	a) Maintenance Holes (Provisional)			each	NOT EXTENDED
	b) Catchbasins (Provisional)			each	NOT EXTENDED
	c) Double Catchbasins (Provisional)			each	NOT EXTENDED
	d) Valve Boxes (Provisional)			each	NOT EXTENDED

32	Provide and install as directed by the Engineering Consultant Clay Seals as per City of Ottawa Standard Detail S8.			each		NOT EXTENDED
33	Form and place concrete sidewalk up to 2.0m wide at the intersection of Street 1 and St. Laurent Boulevard and/or Street 1/Street 2 and Existing Tremblay Road. Sidewalk to be aligned and poured as directed by the Consultant.			m		NOT EXTENDED
34	Percentages to be applied to adjustments of Additional Work valuated under Article GC12.2(c) of the General Conditions:					
	a) Surcharge on net hourly labour cost to cover all payroll burden, overhead and profits					
	b) Surcharge on net material cost to cover all overhead and profit					
	c) Discount on equipment rental cost in accordance with current OPSS 127 (Schedule of Rental Rates of Construction Equipment)					
G. SCHEDULE OF ADDITIONAL UNIT PRICES (CONTINUED)						
35	Price for equipment that may be used. Hourly price to include operator and any supplies (Attach an additional sheet if required)					
				*OPSS discount		
				*Operator markup		
			<u>Rating/size</u>	<u>OPSS Hourly rate</u>	<u>Operator</u>	<u>Total Rate*</u>
	<u>Equipment type</u>					
i	Scraper					
ii						
iii						
iv	Backhoe					
v	(hydraulic excavator)					
vi						
vii	Off-road Truck					
viii						
ix						
x	Front-end loader					
xi						
xii						
xiii	Bulldozer					
xiv						
xv						
xvi						
xvii	Compaction equipment					
xviii						
xix						
xx	Tandem Dump Truck					