



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving - PWGSC / Réception des soumissions -
TPSGC

11 Laurier St./11 rue Laurier

Place du Portage, Phase III

Core 0B2 / Noyau 0B2

Gatineau, Québec K1A 0S5

**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

Construction Services Division/Division des services de
construction

140 O'Connor Street

140, rue O'Connor

Ontario

Ottawa

K1A 0S5

Title - Sujet building 39- indigenous	
Solicitation No. - N° de l'invitation 01965-210069/A	Amendment No. - N° modif. 004
Client Reference No. - N° de référence du client 01965-210069	Date 2020-10-29
GETS Reference No. - N° de référence de SEAG PW-\$\$\$FG-365-79148	
File No. - N° de dossier fg365.01965-210069	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-11-04	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: St-Germain, Sophie	Buyer Id - Id de l'acheteur fg365
Telephone No. - N° de téléphone (613) 297-3462 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

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

The following changes to the tender documents are effective immediately. This amendment will form part of the contract documents.

Amendment 004 is issued for the following:

- 1) To provide Questions and Answers
 - 2) To issue addendum 04
-

(1) Questions and Answers

Question 17;

Does A800 plan includes into landscape scope of work?

Answer 17;

Bid as per drawings and specifications.

Question 18;

Do you have any spec or details for the flagstone patio pavers?

Answer 18;

Refer to Addendum No.04.

Question 19;

Do you have the supplier name or brand for the benches?

Answer 19;

Bid as per drawings and specifications.

Question 20;

Is the 75mm mulch will cover all the planting area?

Answer 20;

Refer to Addendum No.04.

Solicitation No. - N° de l'invitation
01965-210069

Amd. No. - N° de la modif.
004

Buyer ID - Id de l'acheteur
FG 365

Client Ref. No. - N° de réf. du client

File No. - N° du dossier

CCC No./N° CCC - FMS No./N° VME

Question 21;

Does asphalt pavement in landscape scope of work?

Answer 21;

Bid as per drawings and specifications. Refer to Drawing A100 and specification section 32 12 16.01.

Question 22;

What is the KA rating on the 120-208v P1 panel?

Answer 22;

Refer to Addendum No.04.

Question 23:

Do you know which contractor did the base building controls? Is controls open to anyone for this work?

Answer 23:

Bid as per drawings and specifications

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME

The following changes in the bid documents are effective immediately. This addendum will form part of the contract documents.

SPECIFICATIONS

1. Section 26 24 16.01 – PANELBOARDS, BREAKER TYPE:

- .1 **DELETE** article 2.1.2 and **REPLACE** with new article 2.1.2 to read:
120/208V Panelboards: Bus and breakers rated minimum 10kA (symmetrical) interrupting capacity.
- .2 **DELETE** article 2.1.13.

2. Section 26 28 16.02 – MOLDED CASE CIRCUIT BREAKERS:

- .3 **DELETE** article 2.1.6 and **REPLACE** with new article 2.1.6 to read:
Circuit breakers to have minimum 10kAIC for 120/208V rated.

3. Section 31 32 19.01 – GEOTEXTILES:

- .1 **ADD** new specification section 31 32 19.01 – Geotextiles (attached).

4. Section 32 14 10 – UNIT PAVING ON SAND BED:

- .1 **ADD** new specification section 32 14 10 – Unit Paving on Sand Bed (attached).

DRAWINGS

1. Drawing A100 – SITE & LANDSCAPE PLAN

- .1 **DELETE** drawing note 10 and **ADD** with new general note C to read:
Typical: Supply and install 75mm thick cedar mulch layer over landscaping non-woven geo-textile, clear from immediate base of tree, shrub, plant, over all planting areas.

2. Drawing S201 – PLAN – GROUND FLOOR

- .2 **DELETE** drawing note 2 and **ADD** new drawing note 2 to read:
New HSS 203x203x9.5 column c/w 1200x1200x250 DP. Reinforced concrete pad footing with 5-15M each way with 75mm bottom clear cover.

End of Addendum No. 04

Part 1 - General

1.1 MEASUREMENT AND PAYMENT

- .1 Supply and installation of geotextile will not be measured separately for payment.

1.2 REFERENCES

- .1 ASTM International
 - .1 ASTM A123/A123M-09, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 - .2 ASTM D4491-99a (2009), Standard Test Methods for Water Permeability of Geotextiles by Permittivity.
 - .3 ASTM D4595-09, Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method.
 - .4 ASTM D4716-08, Standard Test Method for Determining the (In-Plane) Flow Rate Per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head.
 - .5 ASTM D4751-04, Standard Test Method for Determining Apparent Opening Size of a Geotextile.
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-4.2 No. 11.2-2004, Textile Test Methods - Bursting Strength - Ball Burst Test (Extension of September 1989).
 - .2 CAN/CGSB-148.1, Methods of Testing Geotextiles and Complete Geomembranes.
 - .1 No. 2-M85, Methods of Testing Geosynthetics - Mass per Unit Area.
 - .2 No. 3-M85, Methods of Testing Geosynthetics - Thickness of Geotextiles.
 - .3 No. 6.1-93, Methods of Testing Geotextiles and Geomembranes - Bursting Strength of Geotextiles Under No Compressive Load.
 - .4 No. 7.3-92, Methods of Testing Geotextiles and Geomembranes - Grab Tensile Test for Geotextiles.
 - .5 No. 10-94, Methods of Testing Geosynthetics - Geotextiles - Filtration Opening Size.
- .3 CSA International
 - .1 CSA-G40.20/G40.21-04 (R2009), General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.
 - .2 CAN/CSA-G164-M92 (R1998), Hot Dip Galvanizing of Irregularly Shaped Articles.
- .4 Ontario Provincial Standard Specifications (OPSS)
 - .1 OPSS 1860-April 2012, Material Specification for Geotextiles.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for geotextiles and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Samples:
 - .1 Submit following samples 4 weeks prior to beginning Work.
 - .1 Minimum length of 2 m of roll width of geotextile.
 - .2 Methods of joining.
- .4 Test and Evaluation Reports:
 - .1 Submit copies of mill test data and certificate at least 4 weeks prior to start of Work.
- .5 Sustainable Design Submittals:
 - .1 Construction Waste Management:
 - .1 Submit project Waste Management Plan highlighting recycling and salvage requirements.
 - .2 Submit calculations on end-of-project recycling rates, salvage rates, and landfill rates demonstrating that 75% of construction wastes were recycled or salvaged.

1.4 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .2 Storage and Handling Requirements:
 - .1 Store materials in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect geotextiles from direct sunlight, ultra-violet rays, excessive heat, mud, dirt, dust, debris and rodents.
 - .3 Replace defective or damaged materials with new.
- .3 Packaging Waste Management: remove for reuse of packaging materials as specified in Waste Reduction Workplan in accordance with Section 01 74 21 – Construction/Demolition Waste Management.

1.5 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for re-use and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management.
- .2 Remove from site and dispose of all packaging materials at appropriate recycling facilities.

- .3 Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard, packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .4 Fold up metal banding, flatten and place in designated area for recycling.

Part 2 - Products

2.1 MATERIAL

- .1 Geotextile: non-woven synthetic fiber fabric, supplied in rolls.
 - .1 Width: 3.0 m minimum.
 - .2 Length: 40.0 m minimum.
 - .3 Composed of: minimum 95% by mass of polypropylene, polyethylene, polyester, or other synthetic polymers with inhibitors added to base plastic to resist deterioration by ultra-violet and heat exposure.
- .2 Physical properties:
 - .1 Thickness: to CAN/CGSB-148.1, No.3, minimum 6 mm.
 - .2 Mass per unit area: to CAN/CGSB-148.1, No.2, minimum 109 g/m².
 - .3 Tensile strength and elongation (in any principal direction): to ASTM D 4595.
 - .1 Tensile strength: minimum 355.86 N, wet condition.
 - .2 Elongation at break: maximum 50%.
 - .3 Seam strength: same or greater than tensile strength of fabric.
 - .4 Grab tensile strength and elongation: to CAN/CGSB-148.1, No.7.3.
 - .1 Breaking force: minimum 355.86 N, wet condition.
 - .2 Elongation at future: maximum 50%.
- .3 Hydraulic properties:
 - .1 Apparent opening size (AOS): to ASTM D 4751, 212 micrometres.
 - .2 Filtration opening size (FOS): to CAN/CGSB-148.1 No.10, OPSS 1860.
 - .3 Permittivity: to ASTM D 4491, 2.2 pers.
 - .4 Securing pins and washers: to CAN/CSA-G40.21, Grade 300W, hot-dipped galvanized with minimum zinc coating of 600 g/m² to CAN/CSA G164.

Part 3 - Execution

3.1 EXAMINATION

- .1 Verification of Conditions: confirm that conditions of substrate previously installed under other Sections or Contracts are acceptable for geotextile material installation in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate in presence of Departmental Representative.
 - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
 - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

3.2 INSTALLATION

- .1 Place geotextile material by unrolling onto graded surface in orientation, manner and locations indicated and retain in position with stakes, pins or stones.
- .2 Place geotextile material smooth and free of tension stress, folds, wrinkles and creases.
- .3 Place geotextile material on sloping surfaces in one continuous length from toe of slope to upper extent of geotextile.
- .4 Overlap each successive strip of geotextile 600 mm over previously laid strip.
- .5 Pin successive strips of geotextile with securing pins at 300mm interval at mid point of lap.
- .6 Protect installed geotextile material from displacement, damage or deterioration before, during and after placement of material layers.
- .7 After installation, cover with overlying layer within 1 hour of placement.
- .8 Replace damaged or deteriorated geotextile to approval of Departmental Representative.
- .9 Place and compact soil layers in accordance with Section 31 23 33.01 – Excavating, Trenching and Backfilling.

3.3 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 – Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 – Cleaning.
- .3 Waste Management: separate waste materials for reuse/recycling in accordance with Section 01 74 21 – Construction/Demolition Waste Management.
 - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

3.4 PROTECTION

- .1 Vehicular traffic not permitted directly on geotextile.

END OF SECTION

1 GENERAL

1.1 RELATED REQUIREMENTS

- .1 Section 31 32 19_01 - Geotextiles
- .2 Section 32 14 13 - Precast Concrete Unit Paving.

1.2 REFERENCE STANDARDS

- .1 American Society for Testing and Materials International, (ASTM).
 - .1 ASTM C 136/C136M-14, Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
 - .2 ASTM D 698-12e2, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft² (600kN-m/m³)).
 - .3 ASTM D 1557-12e1, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft² (2,700kN-m/m³)).
 - .4 ASTM D 4595-17, Standard Test Method for Tensile Properties of Geotextiles by the Wide Strip Method.
 - .5 ASTM E 11-17, Standard Specification for Woven Wire Test Sieve Cloth and Test Sieves.
- .2 Canadian Standards Association (CSA)
 - .1 CAN/CSA A179-14 (R2019) – Mortar and Grout for Unit Masonry
 - .2 CSA-G40.20/G40.21-04 (R2018), General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.
- .3 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-148.1, Methods of Testing Geotextiles and Complete Geomembranes.
 - .1 No. 2-M85, Methods of Testing Geosynthetics - Mass per Unit Area.
 - .2 No. 3-M85, Methods of Testing Geosynthetics - Thickness of Geotextiles.
 - .3 No. 6.1-93, Methods of Testing Geotextiles and Geomembranes - Bursting Strength of Geotextiles Under No Compressive Load.
 - .4 No. 7.3-92, Methods of Testing Geotextiles and Geomembranes - Grab Tensile Test for Geotextiles.
 - .5 No. 10-94, Methods of Testing Geosynthetics - Geotextiles - Filtration Opening Size.
- .4 Ontario Provincial Standard Specifications (OPSS)
 - .1 OPSS 1860-April 2012, Material Specification for Geotextiles.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit following product test data:
 - .1 Sieve analysis for gradation of bedding and joint material.
- .2 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.

UNIT PAVING ON SAND BED

- .3 Submit full size sample of each type paving unit.

1.4 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 19 - Waste Management and Disposal.
- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal paper, plastic, polystyrene and corrugated cardboard packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .4 Divert unused aggregate materials from landfill to facility for reuse as approved by Departmental Representative.
- .5 Divert unused geotextiles from landfill to plastic recycling facility approved by Departmental Representative.
- .6 Fold up metal banding, flatten and place in designated area for recycling.

2 PRODUCTS**2.1 MATERIALS**

- .1 Flagstone (natural stone): Limestone, irregular shape, 38 - 50 mm thick with split finish face top, split bottom and split edges.
- .2 Manufactured sand for bedding: hard, durable, crushed stone particles, conforming to gradation of concrete sand as specified in CAN/CSA A23.1. Sand: free from clay lumps, cementation, organic material, frozen material and other deleterious materials. Do not use limestone screenings or stone dust.
- .1 Gradations: within limits specified when tested to ASTM C 136. 0% to pass 0.075 mm sieve.
- | Sieve Designation | % Passing |
|-------------------|-----------|
| 10 mm | [100] |
| 5 mm | [95-100] |
| 2.5 mm | [80-100] |
| 1.25 mm | [50- 90] |
| 0.630 mm | [25- 60] |
| 0.315 mm | [10- 35] |
| 0.160 mm | [2- 10] |
- .3 Joint sand: to CSA A179, hard, durable, angular particles, free from clay lumps, cementation, organic material, frozen material and other deleterious materials.
- .4 Geotextile fabric: in accordance with Section 31 32 19_01 Geotextiles .

3 EXECUTION**3.1 PROTECTION**

- .1 Prevent damage to buildings, landscaping, curbs, sidewalks, trees, fences, roads and adjacent property. Make good any damage.
- .2 Provide access to building at all times. Coordinate paving schedule to minimize interference with normal use of premises.

3.2 SUBGRADE

- .1 Ensure that subgrade preparation conforms to levels and compaction required to allow for installation of granular base.

3.3 GEOTEXTILE

- .1 Install geotextile filter as indicated.

3.4 GRANULAR BASE

- .1 Base minimum thickness: 200 mm.
- .2 Spread and compact gravel base in uniform layers not exceeding 100 mm compacted thickness.
- .3 Compact base to a density of not less than 95 % Standard Density in accordance with ASTM D698.
- .4 Shape and roll alternately to obtain smooth, even and uniformly compacted granular base and ensure conformity of grades with finish surface.
- .5 Apply water as necessary during compaction to obtain specified density. If granular base is excessively moist, remove it and install more granular material to rid it of sponginess.
- .6 In areas not accessible to rolling equipment, compact to specified density with approved mechanical tampers.
- .7 Ensure top of granular base does not exceed plus or minus 10mm over 3m straightedge.

3.5 BEDDING SAND

- .1 Place and spread bedding sand to 100mm thickness.
- .2 Do not use joint sand for bedding sand.

3. SURFACE COURSE

- .1 Ensure bedding sand and granular base are not saturated prior to placement of flagstone.
- .2 Install flagstone true to grade on the bedding sand.

- .3 Where required, cut units accurately without damaging edges.
- .4 Flagstone.
 - .1 Install units with 6mm joints.
 - .2 Fill joint spaces to full depth by sweeping in sand.
 - .3 Sweep surface course clean.

END OF SECTION