

INVITATION TO TENDER "ITT" NO. PS20181272
GENERAL CONTRACTOR FOR CONSTRUCTION OF SMITHE AND RICHARDS PARK

QUESTIONS AND ANSWERS NO. 2

ISSUED ON August 17, 2018

Q1	<i>The storm water feature in Detail 3/S4.02 and Detail 2/L9.61 is shown with a continuous base across the width of the feature. Details for the same feature on L9.60 do not show a continuous base. Please confirm if a continuous base is required and if yes, is it for the entire length of the feature or only at specific locations.</i>
A1	The stormwater feature base is continuous with perforations which are 150mm diameter at 1200mm apart. Refer to S4.02, L9.60, L9.61 and L9.62. (See Addendum No. 1 for revised drawings).
Q2	<i>The dimensions shown on L3.01 and L3.02 don't make sense. Please provide width dimensions of the storm water feature.</i>
A2	Refer to L3.01 and L3.02 for corrected dimensions. (See Addendum No. 1 for revised drawings).
Q3	<i>The 1:50 scale on drawings L3.01 and L3.02 is incorrect. Please confirm that it should be 1:100?</i>
A3	Correct, the scale is 1:100.
Q4	<i>The 1:15 scale of drawing L9.22 is incorrect. Please confirm that it should be 1:30?</i>
A4	Correct, the scale of all details on the drawing sheet is 1:30.
Q5	<i>Drawing L2.01 shows Key Note 18 in two locations near gridline D/2. Key Note 18 is shown in the legend as representing bollards. This seems to be a typo, please confirm correct Key Note #'s for these locations.</i>
A5	Two Keys 18 near gridline D/2 have been deleted. Please refer to corrected keys in L2.01 Materials Plan and L2.02 Wall, Stairs and Lighting Plan, re-issued in Addendum 01.
Q6	<i>Drawings L9.20 and L9.21 identify Wall Types from A1 to E, but there is no plan showing these walls types, please provide these references on a layout plan?</i>
A6	Please refer to L2.02 - Wall, stairs and lighting plan. (See Addendum No. 1 for revised drawing).

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Q7	<i>On drawing L2.01 near the playground stairs there is a reference tag of 1/L9.42 which seems to be incorrect, please provide correct reference and/or detail?</i>
A7	Reference tag 1/L9.42 has been deleted.
Q8	<i>On drawing L2.01 it notes typical of 4 trash receptacles (Key Note #25), but only 3 are visible on the plan, please confirm quantity?</i>
A8	Correct - There are 3 trash receptacles.
Q9	<i>Detail 3/L9.22 notes 6 bump outs for bike tires, which seems incorrect. Please confirm that only 4 are required?</i>
A9	Correct, only 4 are required. The note on L9.22 has been revised.
Q10	<i>On drawing L2.01 it shows one of the stainless-steel trellises on the north side of the playground stairs. Based on wall elevations there isn't enough wall face to install the trellis. Please clarify.</i>
A10	Correct, the key #27 on the north side of the playground stairs for the trellis has been deleted.
Q11	<i>Please confirm the load requirements for the electric winches at the Sky Frames?</i>
A11	The load requirements are outlined in the notes on S7.01.
Q12	<i>What is the typical height of the 200mm wide upstand curbs as shown on the A214 (no height dimension given on Details 3, 4 and 5/L9.40)?</i>
A12	<i>The height of the curb is 50mm minimum. It varies because of the slab slope. Refer to detail 8/S4.01 and 8A/S4.01.</i>
Q13	<i>Please provide specification for the following Washroom Accessories:</i> <ul style="list-style-type: none"> a. <i>Frameless Mirror</i> b. <i>Toilet Tissue Holder</i> c. <i>Hand Dryer</i> d. <i>Wall Mounted Soap Dispenser</i> e. <i>Folding Baby Change Table.</i>
A13	Specification for the following Washroom Accessories (See Addendum No. 1 for revised drawing): <ul style="list-style-type: none"> a. Frameless Mirror: Stainless Steel Framed Vandal Resistant 6mm Glass Mirror. Refer to Elevation for sizing b. Toilet Tissue Holder: Bobrick B-2890 Wall Mounted Toilet Tissue Dispenser in Stainless Steel c. Hand Dryer: Dyson Airblade V d. Wall Mounted Soap Dispenser: Bobrick B-2111 Wall Mounted Soap Dispenser in Stainless Steel e. Folding Baby Change Table: Koala Kare surface mounted change station that supports static loads up to 200 lbs

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Q14	<i>Please clarify if the Public Washrooms ceiling finish are to be epoxy resin or painted. Both are stated on drawing A412.</i>
A14	Public Washrooms Ceiling Finish to be painted (colored and finished) to match epoxy resin coating.
Q15	<i>Drawing L9.41 detail for a wall mounted attachment for a stainless-steel handrail. Where is this wall mounted handrail located?</i>
A15	The handrail is located at the large staircase at the Children's play area. Refer to key 2/L9.41 on L2.01.
Q16	<i>Drawing L9.41 detail for handrail stanchion to be stainless-steel at upper end and the mid support stanchion to be painted steel. Is the bottom stanchion to be stainless-steel or painted steel? Should all stanchion be stainless-steel?</i>
A16	Correct, all stanchions should be stainless steel and not painted steel.
Q17	<i>Regarding detail 6/9.40 SS Edge Restraint at Planting Area over Slab. Please clarify what this restraint is to be attached to and at what exact location it would be needed.</i>
A17	The edge restraint is located at the top of the seat steps behind the café to provide additional soil depth and to retain planting. The edge restraint can be attached to the voiding below.
Q18	<i>Drawing A810 shows the interior stone tile in the Café Pavilion to be install over 25mm sand bedding. In talking with the supplier of the stone tile they inform me that this sand bed would not be used, and a traditional thin set application would be used to install the tiles. Please clarify that the sand bedding will not be required.</i>
A18	Traditional Thin Set is Acceptable.
Q19	<i>Is a geotechnical report available for the site?</i>
A19	Yes, please see Addendum #1 for Geotechnical Report - Davies Geotechnical Inc. - March 1, 2018.
Q20	<i>Geotechnical and structural drawings conflict on bond length for skyframe soil anchors (called micropiles on geotech). We assume 12m minimum bond length for all anchors on site, including #8 gr 75 micropiles. Please confirm if this is correct?</i>
A20	Per the March 1, 2018 Geotechnical Report, seismic anchors requiring a maximum factored design load of 500 kN (per structural requirements) will require a minimum bond length of 6.0m and an unbonded (free) length of 1.0m. Skyframe soil anchors/micropiles requiring a maximum factored design load of 150 kN (per structural requirements) will require a minimum bond length of 3.0m. These soil anchors/micropiles will require a free length long enough to ensure all bonded zone is below the neighbouring building foundations (estimated to be approximately 3.0m, but may be more/less depending on final

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	pile cap and adjacent building elevations).
Q21	<i>Geotechnical drawings indicate a 150mm PVC sheath to be installed before eastern skyframe soil anchors are installed. Note that to drill 150mm holes, we will require a 200mm sheath. Please confirm if this is acceptable?</i>
A21	Yes, this is acceptable. The sheath will need to be filled with lien-mix concrete/grout to prevent buckling of the free length after drilling/installation of soil anchors/micropiles. Note that the #8 soil anchors/micropiles will need to have another sheath at the diameter of the #8 bar to prevent bonding to the lien-mix/grout backfill.
Q22	<i>Free lengths for anchors are not given on either drawing set (geotechnical or structural). These will be required for accurate pricing and scheduling. Please provide free lengths for anchors?</i>
A22	See answer A20 above. Free length of seismic anchors will be a minimum of 1.0m to allow for tensioning to verify capacity. Free length of skyframe soil anchors/micropiles will need to be long enough to prevent bonded zone from loading adjacent building foundation wall (estimated to be approximately 3.0m). Please note, the Geotechnical Report indicates seismic anchor bars to be a minimum of #11 Grade 75, while the Structural drawings indicate #14 bar to be used. Geotechnical Report indicates minimum sizing only. Please defer to the structural drawings for all bar sizing/steel grade details.
Q23	<i>Structural drawings indicate type HS grout. Please confirm that Microsil Anchor Grout is acceptable?</i>
A23	Provide High Sulphate-Resistant Cement as defined in CSA A3000-13. Material and product submittals will be reviewed during the construction period.
Q24	<i>Structural notes indicate that all bars should be epoxy coated, but micropile detail indicates double corrosion protection (DCP) bars. Please confirm which is correct? We recommend DCP bars throughout the design as these are typical for the region and offer the best corrosion protection.</i>
A24	Provide double corrosion protection on micropile bars.
Q25	<i>Structural micropile detail indicates two plates attached with bolts. Would we be responsible for both, or only the bottom plate?</i>
A25	Please refer to Soil Anchors and Micropiles note 1 on sheet S0.01. Contractor is responsible for providing all elements on design drawings.
Q26	<i>Please clarify the sequence of events for leveling the bridge columns with anchor grout at the micropile locations? Note that the anchor grout is designed to be flowable and is not easy to form into columns or pads.</i>
A26	For leveling and bearing plate grout, refer to Steel Note 1.5 on sheet S0.02.

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Q27	<i>Drawings indicate domes of grout over the top of soil anchor plates and nuts. Again, anchor grout is very difficult to form in these shapes. Typically, corrosion protection is achieved using Dywidag trumpets, gaskets, and grease caps. Please confirm if this is an acceptable alternate, or if you would like to use concrete to cover exposed anchor hardware?</i>
A27	For leveling and bearing plate grout, refer to Steel Note 1.5 on sheet S0.02.
Q28	<i>Is there an alternate grade of steel that we can use?</i>
A28	Yes. Refer to Amendment No. 1. (S0.02 and S6.03)
Q29	<i>Please clarify the length "L" as shown for the micropiles plastic sleeve area on F50 Drawing S0.04</i>
A29	Refer to Answer A22.
Q30	<i>Synthetic Resilient Surfacing - Specification 32 18 16, Part 2.1.2:</i> <ul style="list-style-type: none"> • <i>Could "LANDSAFE" supplied and installed by Marathon Surfaces be added as an acceptable material manufacturer?</i> • <i>Have the 2 companies listed, been listed as material manufacturers in error?</i>
A30	The two companies listed have been deleted and Landsafe has been added. (See Amendment No. 1)
Q31	<i>Drawing L9.53 #4 Round Eurotramp Trampoline:</i> <ul style="list-style-type: none"> • <i>Could Marathon Surfaces be listed an approved Canadian supplier of Eurotramp trampolines?</i>
A31	Yes.
Q32	<i>Drawing L9.52 and L9.53 - Please provide the CSA Play Equipment Fall Heights for each structure and piece of equipment below:</i> <ul style="list-style-type: none"> • <i>#1 High Challenge Timber Play Structures</i> • <i>#2 Disc Swing - Cloud 9</i> • <i>#3 Hammock - Terranos</i> • <i>#5 Robinia Trees with Rope</i> • <i>Junior Play Area Timber Sculptures</i>
A32	<p>1. High Challenge Timber Play Structures - Fall Heights:</p> <ul style="list-style-type: none"> • 3 Level Enclosed Tower: (+/-) 7.3m (24') • 2 Level Enclosed Tower: (+/-) 5.5m (18') • 1 Level Enclosed Tower: 3.7m (12') <p>2. Disc Swing - Cloud 9 - Fall Ht: 1.8m</p> <p>3. Hammock - Terranos - Fall Ht: 1.5m</p>

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	<p>5. Robinia Trees with Rope- Fall Ht: 3.7m (12')</p> <p>Junior Play Area Timber Sculptures Fall Ht: 3.7m (12')</p>
Q33	<p><i>Drawings L9.52 & L9.53 - Rubber Spheres and half spheres:</i></p> <ul style="list-style-type: none"> • <i>Could Marathon Surfaces be listed as an approved Canadian supplier of Playtop spheres and half spheres?</i> • <i>If 3D spheres are not available in 12"/300mm diameter, is 350mm acceptable?</i> • <i>Please specify colour for each 3D sphere and half sphere, this has not been indicated on the L9.54</i>
A33	<p>Yes, Marathon Surfaces can be listed as an approved supplier of half spheres and Playtop spheres.</p> <p>350mm diameter 3D spheres is acceptable.</p> <p>Colours of the spheres and half spheres will be issued in Addendum 2.</p>
Q34	<p><i>Will there be a web page set up to inform the public on the status of this project?</i></p>
A34	<p>Yes. Park Board is planning to set up a web page that will include visual documentation on the status of construction of this park, including a time-lapse camera that will be set-up on the roof of the adjacent building.</p>