

HALIFAX REGIONAL SCHOOL BOARD
in Partnership with The Halifax Regional Municipality
PARKS FACILITY DEVELOPMENT

Tender #3666

Crichton Park School Playground Equipment SUPPLY AND INSTALLATION

CLOSING DATE: MONDAY, JUNE 16th, 2014

CLOSING TIME: 2:00:00 P.M.

CLOSING LOCATION: 33 Spectacle Lake Drive
Dartmouth NS B3B 1X7

HRSB CONTACT:

Deborah Beck, Buyer
Phone: (902) 464-2000 #2011
Email: dbeck@hrsb.ca

HRM PROJECT MANAGER:

Steve Oakey
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Download tender documents from HRSB website: <http://www.hrsb.ns.ca/tools/tenders/listing.aspx>
OR view at CANS website: <http://www.cans.ns.ca/>

A Mandatory Pre-bid meeting will be held WEDNESDAY, JUNE 11, 2014, 3:00 p.m. at
Crichton Park School, 49 Lyngby Ave. Dartmouth. N.S. B3A 3V1

The contract documents for this quotation, in order of precedence, are as follows:

- Supplementary Terms and Conditions
- General Requirements - Specified Price Tender
- Instruction to Bidders
- General Specifications
- Works and Specifications
- Details
- Form of tender
- Contractor Safety Management Policy
- Substance Abuse Prevention Policy
- Appendix "B" Health and Safety Questionnaire

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HRSB/HRM

Crichton Park School Playground Equipment SUPPLY AND INSTALLATION

Tender # 3666

Prices are requested for the supply and installation of **ONE (1) NEW PLAY STRUCTURE** at **Crichton Park School** located at **49 Lyngby Ave., Dartmouth** as detailed later in these specifications.

A) GENERAL SPECIFICATIONS

1) NAMES OF PARTIES

The Owner under the terms of this Contract is the Halifax Regional Municipality in partnership with Halifax Regional School Board.

The Contractor under the terms of this Contract is the person or firm or Company whose tender has been accepted by the Owner and includes the Contractor's successors and permitted assigns.

The Project Manager under the terms of this Contract is the assigned HRM parks capital projects representative.

HRSB under the terms of this Contract means the Halifax Regional School Board.

2) FORM OF CONTRACT

The Contract shall be as per terms and conditions of this specification and associated drawings and documents.

3) DESCRIPTION OF SITE

The site is located at **49 Lyngby Ave. Dartmouth**

It is recommended that tenderers visit the site in order to satisfy themselves as to the following:

- .1) Means of access to the site;
- .2) General location of the work area and of working and storage space available;
- .3) Conditions which may prevail on or adjacent to the site during construction;
- .4) Adjoining private/City fences, trees/shrubs, concrete/asphalt walkways; overhead and

underground services, lawn areas, etc. which require protection during the progress of the works. Care must be taken to avoid disturbing these sites.

It is the Contractor's responsibility to arrange for all required utility locates at each respective site within this Contract. Cost to repair all damages to any utility caused by the Contractor through the execution of this Contract shall be borne by said Contractor.

- .5) Facilities to be provided for other contractors or workers of the Owner who may be employed during the progress of the works;
- .6) Surface condition and the nature of the ground and subsurface.

No allowance beyond the Contract Sum will be made for any alleged ignorance in respect of these matters.

4) PROGRAMME OF OPERATIONS

- .1) Project must be substantially complete within 10 weeks of receipt of purchase order, unless otherwise stipulated in writing.

Substantial Completion has been reached: *“when the Work is ready for safe use or is being used for the purpose intended and has been accepted as such (in writing) by the Project Manager.”*

- .2) The pre-construction meeting is mandatory. Construction cannot commence until the pre-construction meeting has been held.
- .3) Possession of the site will be given to the Contractor at the commencement of construction and remain until construction is complete.
- .4) A \$500.00/day penalty will be deducted from the contract price for each day the project extends beyond the stipulated substantial completion date. Delays in shipping any components required for the completion of the project will not be considered as a legitimate reason for delay.
- .5) All of the above works shall proceed only during good weather conditions. The Project Manager reserves the right to stop all work during periods of inclement weather. In the event of work stoppage, or approved change orders (see sections 5 and 6 below), the stipulated completion date may be adjusted accordingly and agreed revised date provided in writing.

5) WORK STOPPAGE

- .1) In the event of inclement weather resulting in a work stoppage and anticipated need for substantial completion date extension, the Contractor shall notify the Project Manager in writing (fax, e-mail, mail) of the delay a minimum of 24 hours before the original substantial completion date. Written approval of the extension by the Project Manager must be obtained. In no case will a work stoppage be accepted as a basis for extra payment.

6) CHANGE ORDERS

.1) Procedure for contemplated change order is as follows:

- a) Site meeting (if required) is arranged between Contractor and Project manager.
- b) Contractor submits (in writing) a breakdown of additional costs or credit (if any) and anticipated extension of substantial completion date to the Project Manager for written approval.
- c) Change order work cannot proceed until written approval is received.

7) GUARANTEE

- .1) The Contractor shall guarantee the Works and materials for a period of **two (2) years** from the day following substantial completion.
- .2) Deficiencies, as determined by the Project Manager, shall be corrected and/or replaced by the Contractor during this period. This would include but not be limited to deficiencies in material, and workmanship. Sod maintenance is **not** included. No payment by the Project Manager shall constitute a waiver of the two year guarantee.
- .3) Neither the final certificate nor payment nor any provisions in the Contract shall relieve the Contractor of responsibility for negligence or faulty materials or workmanship within the extent and period provided by law.

8) PROTECTION

The Contractor must protect, uphold and maintain all existing pipes, ducts, sewers, service mains, overhead and underground cables, fencing, asphalt/concrete walkways, etc. during the execution of the works.

9) CLEAN SITE

The Contractor shall remove debris during the course of the works and shall leave the site free of all debris of excess materials upon completion of the works. All adjacent pathways and roads shall be kept free from the accumulation of all deleterious material through the construction period.

10) PAYMENT

- .1) This is a **Lump Sum** contract. Payment shall not be made until **Final Completion** of the work (in accordance with the specifications). Final Completion has been reached ***“when the works are 100% complete with no deficiencies and the Project Manager has accepted this in writing.”***
- .2) Release of funds will be dependent upon receipt of the following by the Project Manager:

- .1) a letter on appropriate company stationary stating that all play equipment supplied and installed under this Contract is in compliance with CSA document, "Children's Playspaces and Equipment"; CAN/CSA-Z614-07, or the most recent edition of the same;
- .2) an assembly/maintenance 'tool kit' for the specified play equipment;
- .3) an assembly instructions/manual for the specified play equipment.

11) STORAGE OF MATERIALS AND EQUIPMENT

Materials and/or equipment are to be stored and maintained in an orderly manner satisfactory to the Project Manager during the progress of the work and shall be removed from the site immediately upon completion of the job or when ordered to do so by the Manager. The Contractor shall be responsible for damage to and damage caused by any equipment the contractor leaves on site during the construction period.

12) MATERIALS - EQUIPMENT ETC.

Unless otherwise stipulated, the Contractor shall provide and pay for all materials, labour, water, tools, equipment, light, power, transportation and any other goods or services necessary for the execution and satisfactory completion of the work.

13) PERMITS/APPROVALS

All permits/licences etc. necessary for carrying out the works shall be secured and paid for by the Contractor unless otherwise stipulated.

14) SAFETY REQUIREMENTS AND REGULATIONS

In accordance with the Nova Scotia Department of Labour's Health and Safety Act and Regulations, the HRM reserves the right to suspend works should the Project Manager find the Contractor in violation of any applicable construction safety codes, or in the opinion of the Project Manager is otherwise jeopardizing site safety in any manner. The Contractor, however, remains responsible for maintaining safe work practises and site safety whether the Project Manager is present or not.

15) SITE SECURITY

- .1) The Contractor is to wrap equipment with plastic snow fencing at the end of each working day during construction.
- .2) The Contractor is to install and maintain construction area perimeter fencing consisting of steel T-Bar posts and plastic snow fencing, throughout the construction period.
- .3) The Contractor is to ensure no excavated holes are to be left open at the end of each day.

- .4) The Contractor is to install and maintain site signage in a visible location during the course of construction (see dwg. L-7).

16) ORDER OF PRECEDENCE

In the event of any conflicts or inconsistencies in the provisions of the plans and specifications of this document, such provisions shall take precedence and govern in the following order:

1. Purchase Order
2. Addenda (where issued)
3. Special Provisions and/or General Requirements
4. Contract Drawings
5. HRM Standard Specifications and Standard Drawings
6. Bid Sheet

17) PROJECT CONTACT

The Clayton Park Playground Equipment Project Manager is *Steve Oakey at Parks Facility Development, HRM 490-4746*.

Specifications, Form of Quotation, and all other pertinent documents may be downloaded from the HRSB website:

<http://www.hrsb.ns.ca/tools/tenders/listing.aspx> OR at the CANS (Construction Association of Nova Scotia).

A **mandatory** pre-construction meeting will be held after contract is awarded at a date stipulated by the Project Manager.

B) WORKS SPECIFICATIONS

1) **SITE WORK**

Work to include the supply of all material labour and equipment to prepare the site for playground installation and surfacing. Works to include:

- the removal from site of any unsuitable material that cannot be used through the course of the work.
- Grub off turf areas and prepare a level pad for placement of base gravels.
- Construct a swale between the existing climber and the new playground.
- Removal of the bike rack and footings.

See Drawing L-1 Site Plan for layout of equipment.

2) **PLAY EQUIPMENT INSTALLATION**

GENERAL

The following notes pertain to all play equipment specified within this Contract:

- .1) All play equipment specified within this Contract shall be new and of top quality and must meet the C.S.A. document, "Children's Playspaces and Equipment", (CAN - CSA Z 614 - 14), or the most recent edition/revisions of the same. Installation must meet manufacturer's specifications and conform to **CAN/CSA-Z614-14**, or the most recent edition/revisions of the same.
- .2) All components comprising the units shall be installed plumb and true. Components failing to meet these criteria must be properly reinstalled at no additional cost to this Contract.
- .3) The layout of the proposed play structure and timber edging must observe the Protective Surfacing and No-Encroachment Zones, as stipulated within CSA document "Children's Playspaces and Equipment"; **CAN/CSA-Z614-14**, or the most recent addition/revision of the same.
- .4) **Footings:** Concrete **or** 'sled system' footings are acceptable provided they meet the manufacturer's specifications for the proposed equipment and **CAN/CSA-Z614-14** standards or most recent edition/revision of same.
 1. All sled materials including welded joints to be primed. A minimum of 80 percent of each post shall sit directly on skid with a continuous bead of weld around 80 percent of the circumference of the posts (skid shall be constructed of a minimum of 5 " channel and shall be continuously welded along complete joint when adjoining pieces)

2. Inspection of play structure by the project manager is required prior to surfacing installation to ensure these requirements are met.

.5) Layout of equipment shall be approved by the Project Manager on site before installation is to proceed.

.6) Play Structure Components

The Contractor shall supply and install a play structure containing components and component construction materials that meet or exceed:

Little Tikes Play equipment equal or equivalent to model # Kid Builders LH648_41666826169_1 as details in these specifications

Refer to drawing package for layout and component information.

Equipment Details/ Specifications

PART 1 – GENERAL

1.1 Description: LH648_41785789109_1 Crichton Park Elementary School

1.2 Quality Assurance:

1.2.1 Equipment and Design Qualifications:

1.2.1.1 All playground equipment shall comply will all the requirements of CPSC, ASTM, ADA and will be IPEMA certified.

1.2.1.2 All safety fall zones shall be determined in accordance with ASTM 1487-07 and CPSC Handbook for Public Playground Safety Publication number 325. All playground equipment designs shall be evaluated and signed off by a NPSI certified playground inspector.

1.3 Manufacturer Qualifications:

1.3.1 The manufacturer of the playground equipment must carry a minimum of 10 million dollars of liability insurance with an AM best rating. The manufacturer of the playground equipment must have a minimum of 10 years experience in manufacturing commercial playground equipment.

1.4 Applicable Standards

1.4.1 ASTM F1487-07

Standard consumer performance specification for playground equipment for public use.

1.4.2 CPSC Handbook for Public Playground Safety, publication number 325.

1.4.3 CSA Z614-07

1.4.4 EN 1176-98 (if requested)

European Standard for Playground equipment

1.4.5 All manufactured components must be IPEMA certified
International Playground Equipment Manufacturers Association.

PART 2 – PRODUCTS

2.1

100001127	KB LONG DK/DK PLATE 205MM/8"
100001132	KB LONG DK/DK PLATE 405MM/16"
100010147	KIT, SGL.WD.SLIDE W/INST.
200007704	HDWR BAG F/CLAMP ELIMINATION (MM)
200008193	TOOL BOX KID BUILDERS (MM)
200013795	KB 10' GALV POST WITH PLASTIC CAP
200013798	KB 136" GALV POST WITH PLASTIC CAP
200013801	KB 176" GALV POST WITH PLASTIC CAP
200013809	KB 7' GALV POST WITH PLASTIC CAP
200013810	KB 148" GALV POST WITH PLASTIC CAP
200013813	KB 4165/164" GALV POST WITH PLASTIC CAP
200014939	PARALLEL BARS
200055711	TRACK RIDE 20' CURVED F/KB
200069057	KB 200"/5080MM GALV POST W/PLASTIC CAP
200099926	OVERHEAD CIRCLE F/KB
200104307	LABEL AGE APP. (5 TO 12 YRS.)
200109865	KBP SAFETY RAIL DKMT
200111492	LABEL, IDENTIFICATION STAMPED W/RIVETS
200115820	POST W/CAP F/KB F.S. SIDE STEP 16/30
200116288	ROOF GABLE MESH F/KB
200116998	ROOF GABLE MESH ADD-ON F/KB
200125540	STEPS DECK/DECK 610 MM W/SFTY RAILS F/K
200164519	MSDS BOOK
200200015	CLIMBER BUMPY DK/DK 1220 F/KB
200200029	CLIMBING NET 64" TAN/GRN W/SAFE LOOPS KB
200200099	FUNWHEEL 90 DEG F/KB
200200471	KB SPIRAL CLIMBER 1422MM(56") GROUND TO
200200504	PANEL REACH TAP-A-TUNE F/KB
200200507	PANEL REACH TELESCOPE F/KB
200200530	KIT MAINTENANCE KB W/PAINT
200200785	KB MONKEY LEANOUT SEAT PANEL
200201299	KB OFFSET CLIMBING WALL ENCLOSURE
200201348	KB POST CLIMBER 56" DECK
200201376	MAYPOLE
200202051	KB 96" 3-D ROCK CHALLENGE WALL
200202105	KB 96" HYPERSONIC SLIDE
200202247	BRIDGE CLATTER 8' KB W/SFTY.RL(LG HOLE)
200202282	AR SIGN SM CUST LAMINATE PNL IND(1)
200202380	KB LEAF ROOF
200202481	KB TILTED ROCK CHALLENGE WALL 88"
200202483	KB DECK SQUARE LARGE HOLE 11GA
200202488	KB DECK 1/2 SQUARE LARGE HOLE 11GA

200202586	KB LG SQ DK W/RUNG LADD 88" 11GA
200202734	NU-EDGE TREE 56" W/KB SAFETY LOOPS
200202769	KB COMBO OVERHEAD 8'
200202802	KB X-CLIMB
200305596	CRATE,MED.14' L X 34.5" H
200305597	CRATE,LARGE.14' L X 54.5" H
M00116022	WARNING LABEL 3 MESSAGES

2.2 Manufacturer: PlayPower Operations, Monett, Missouri

2.3 General Equipment Specifications:

2.3.1 Plastic Caps shall fit snugly into 127 mm (5") and 33 mm (1.315") tube ends and shall be injection molded Low Density Polyethylene. This plastic shall be stabilized against ultraviolet (UV) degradation and shall have color molded in. All caps will be installed at the factory and 127 mm (5") caps will be secured with aluminum hammer drive pins.

2.3.2 Aluminum Caps shall fit snugly into 127 mm (5") tube ends. The Aluminum cap shall be made from SAE 413 aluminum with a minimum wall thickness of 4 mm. Prior to insertion into the post, all caps shall be painted per PPLT PAINT Specification. All caps will be installed at the factory and 127 mm (5") caps will be secured with aluminum hammer drive pins.

2.3.3 PPLT PAINT Specification: Primer shall be electrostatically applied and cured in an infrared oven. Paint shall be an electrostatically applied polyester TGIC (triglycidyl isocyanurate) powder coating which shall be cured at temperatures between 400 and 500 degrees Fahrenheit. The thickness of the combined primer/paint shall be between 5 mils and 11 mils. The polyester powder shall comply with ASTM standards: D-2794 (Impact Resistance Test), B-117 (Salt Spray Resistance Test), G26 (Weatherability Test), and D3359B (Adhesion Crosshatching Test).

2.3.4 PlayPower Operations ROTO Specification: Rotationally Molded Plastic Parts shall be molded from linear low density polyethylene with ultraviolet (UV) light stabilizers, anti-static guard (for Molding purposes) and color molded in. This material shall comply with ASTM-D-790 (Flex Modulus), ASTM -D-638 (Tensile Strength), ASTM-D-648 (Heat Deflection Temperature), ARM-STD (Low Temperature Impact) and rated UL 94.

2.3.5 PPLT PVC Specification: Textured Poly-Vinyl-Chloride coating shall be an average of 3 mm (.125") thick. Poly-vinyl-chloride coating shall be oven cured and textured for added traction when wet or dry.

2.3.6 Hardware: Bolts, Nuts, Screws, Threaded Spacers, Washers and Other Hardware used in the assembly of components shall be metric stainless steel and tamper resistant. All necessary hardware shall be provided.

- 2.3.7 Deck Clamp assemblies shall consist of two steel half-clamps. Clamp profiles shall be designed to eliminate protrusions. Clamps shall be die formed from 12 gauge HRPO steel. Clamps shall have a 6 mm (.25") radius rib formed in the top and bottom of the clamp for structural integrity. The clamp attachment bracket shall be formed from 11 gauge sheet steel and shall be welded securely to the clamp half. All clamp halves shall be zinc plated, yellow dichromate coated and phosphate coated before being TGIC (triglycidyl isocyanurate) polyester powder coated. Tamper-resistant fasteners shall be used to retain clamps and shall consist of M10 six lobe socket head stainless steel cap screws and M10 slab-base Tee nuts. All clamps shall be provided with aluminum hammer drive pins to protect against slippage.
- 2.3.8 Rail Clamp assemblies shall consist of two steel half-clamps. Clamp profiles shall be designed to eliminate protrusions. Clamps shall be die formed from 12 gauge HRPO steel. Clamps shall have a minimum 6 mm (.25") radius rib formed in the top and bottom of the clamp for structural integrity. All clamp halves shall be zinc plated, yellow dichromate coated and phosphate coated before being TGIC (triglycidyl isocyanurate) polyester powder coated. Tamper-resistant fasteners shall be used to retain clamps and shall consist of M10 six lobe socket head stainless steel cap screws and M10 slab-base Tee nuts. All clamps shall be provided with aluminum hammer drive pins to protect against slippage.
- 2.3.9 Wing and Panel Clamp assemblies shall consist of two steel half-clamps. Clamp profiles shall be designed to eliminate protrusions. Clamps shall be die formed from 12 gauge HRPO steel. Clamps shall have a 6 mm (.25") radius rib formed in the top and bottom of the clamp for structural integrity. The clamp wing bracket shall be formed from 7 gauge sheet steel and shall be welded securely to the clamp half. All clamp halves shall be zinc plated, yellow dichromate coated and phosphate coated before being TGIC (triglycidyl isocyanurate) polyester powder coated. Tamper-resistant fasteners shall be used to retain clamps and shall consist of M10 six lobe socket head stainless steel cap screws and M10 slab-base Tee nuts. All clamps shall be provided with aluminum hammer drive pins to protect against slippage.
- 2.3.10 All Steel Tube Components shall comply with ASTM standards: A-500, Or A-513. The steel tube components contain five layers including an inside galvanized coating, high tensile strength cold formed steel, hot dipped pure zinc meeting ASTM B-6 applied at 3.5 tenths of an ounce per square foot, and a proprietary conversion and advanced polymer coatings. The components are freed of excess weld spatter and shall be cleaned in a multiple bath system which shall include a rust-inhibitive iron phosphate wash prior to painting. Exceptions: 127 mm (5") O.D. aluminum posts.

- 2.3.11 Brackets shall be fabricated from punched and formed 4.5 mm pre-galvanized sheet steel.
- 2.3.12 Gaskets shall be rubber injection molded from ultraviolet (U.V.) protected synthetic rubber. Rubber gaskets shall provide an aesthetic seal around the wonder fastener and bracket.
- 2.3.13 Footing for 127 mm (5") diameter upright posts shall be 305 mm (12") diameter x 940 mm (37") depth. Galvanized steel posts shall be 127 mm (5") O.D., 11 gauge pre-galvanized round tubing. Minimum tensile strength shall be 330MPa (48,000 psi). Minimum yield point shall be 310MPa (45,000 psi). The bottom portion of all upright posts shall be crimped slightly

2.3.14 Component Specifications:

- 2.3.15.1 PARALLEL BARS do not need additional posts for installation. Parallel bars shall be fabricated from 60 mm (2.375") O.D. pre-galvanized steel tubing and have a finished length of 3.0 m (10'). After fabrication all parts shall be painted per PPLT PAINT Specification.
- 2.3.15.2 TRACK RIDE 3.66 m (12') and 6.09 m (20') shall be designed to incorporate a one-piece aluminum (6063-T6 alloy) extruded beam to ease installation and reduce maintenance. The beam shall be designed to work between 3.7 m (12') and 6.1 m (20') post centers respectively. Rubber stops shall be provided at each end of the trolley. Track ride cross beams shall be fabricated from 48.3 mm (1.90") O.D. pre-galvanized steel tubing with a 42.2 mm (1.66") O.D. pre-galvanized internal support sleeve. The Trolley assembly shall consist of four load supporting wheels with sealed ball bearings and two lateral supporting wheels to insure that the roller assembly does not rub the sides of the beam. Track ride handle shall be fabricated from 25 mm (1") O.D. pre-galvanized steel tubing. After fabrication, the steel components shall be painted per PPLT PAINT Specification.
- 2.3.15.3 CIRCLE OVERHEAD shall have teardrop shaped hand rungs welded to a single circular monorail. The Circle Overhead shall be designed with a 270 degree arc to return to the take off platform. The center beam and support legs shall be fabricated from 48.3 mm (1.9") O.D. pre-galvanized steel tubing. The teardrop shaped rungs shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing. The Circular Overhead shall be painted per PPLT PAINT Specification.
- 2.3.15.4 SAFETY RAIL shall be fabricated from a combination of 33.4 mm

(1.312") O.D. pre-galvanized steel tubing and 3/4" X 1" FSO pre-galvanized steel tubing. Side plates shall be fabricated from 3 mm (11 gauge) pre-galvanized sheet steel. Deck mounted safety rails shall have a bottom plate fabricated from 3 mm (11 gauge) pre-galvanized sheet steel. The Safety Rails provide a non-climbable enclosure and shall have no gaps greater than 76 mm (3") and less than 254 mm (10"), especially between vertical rungs and posts. After assembly, panel shall be painted per PPLT PAINT Specification.

2.3.15.5 Identification label shall be fabricated from alluminum sheet .016" (4 mm) thick and attached with aluminum pop rivets.

2.3.15.6 MESH GABLE ROOF shall have ribs fabricated from 11 gauge 127 mm (5") O.D. pre-galvanized steel tubing. Ribs shall be bent to a 610 mm (24") center line radius. Roof section shall be fabricated from 16 gauge pre-galvanized sheet steel with 6 x 76 mm (.25" x 3") slots punched over the entire surface to provide light. The roof section shall be mechanically attached to each rib to form the gable roof assembly. After fabrication the gable roof shall be painted per PPLT PAINT Specification.

2.3.15.7 DECK TO DECK STEPS WITH SAFETY RAIL shall consist of welded tread, riser and stringer sections fabricated from 13 gauge hot rolled steel. This assembly shall be coated per PPLT PVC Specification. Safety Rails shall be fabricated from 33 mm (1.315") O.D. and 3/4" X 1" FSO pre-galvanized tubing. Safety rails shall provide an enclosure and shall have no gaps greater than 80 mm (3.15") and less than 254 mm (10"), especially between vertical rungs and posts. Safety Rails to be painted per PPLT PAINT Specification.

2.3.15.8 VINYL CLAD BUMPY CLIMBER shall be a one piece all welded assembly coated per PPLT PVC Specification. The Bumpy Climber assembly shall be fabricated from punched 11 gauge hot rolled sheet steel. The climbing surface of the assembly shall have approximately an 86 mm (3.3") radius on each step, and a 203 mm (8") rise between steps on a 45 degree angle. The Bumpy Climber assembly shall attach to the deck edge with stainless steel hardware and shall be supported by 33 mm (1.315") O.D. x 14 gauge pre-galvanized posts at the bottom riser. Hand supports shall be fabricated from 33 mm (1.315") pre-galvanized steel tubing. Enclosure shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing, 3 mm (11 gauge) pre-galvanized sheet steel and 4.5 mm (7 gauge) sheet steel. Hand supports and enclosures shall be painted per PPLT PAINT Specification.

- 2.3.15.9 CLIMBING NET shall be fabricated from rope consisting of six galvanized steel cables (2.5 mm O.D. each) twisted together and wrapped with 6mm of high strength polyester fiber. Each perpendicular joint shall be rigidly secured. Climbing Net shall be secured with a stainless steel eye nut to the deck edge and a stainless steel clevis at the bottom. Available with hand hold loops or safety loops. Safety Loops shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing and 3 mm (11 gauge) pre-galvanized sheet steel. Hand Hold Loops shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing. After fabrication steel components shall be painted per PPLT PAINT Specification.
- 2.3.15.10 FUN WHEEL 90 DEGREE shall have triangular loops welded to a center support beam fabricated from 60 mm (2.375") O.D. pre-galvanized steel tubing. Loops shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing. Two (2) spinning wheels shall be attached with 32 mm (1.25") diameter stainless steel hex bolts, each positioned between two bearings. The wheels are fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing and 38.1 mm (1.5") O.D. steel tubing. After fabrication all parts shall be painted per PPLT PAINT Specification.
- 2.3.15.11 SPIRAL CLIMBER shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing. The Spiral Climber shall be comprised of two main parts each of which are all welded assemblies. Enclosure shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing, 3 mm (11 gauge) pre-galvanized sheet steel and 4.5 mm (7 gauge) sheet steel. After fabrication all parts shall be painted per PPLT PAINT Specification.
- 2.3.15.12 KB REACH TAP-A-TUNE® PANEL shall be fabricated from a combination of 33.4 mm (1.312") O.D. pre-galvanized steel tubing, and laser cut plates fabricated from 3.0mm (11 gauge) pre-galvanized sheet steel. Tap-A-Tune panels shall contain a piano mechanism. Panels shall be painted per PPLT PAINT Specification.
- 2.3.15.13 KB REACH TELESCOPE PANEL shall be fabricated from a combination of 33.4 mm (1.312") O.D. pre-galvanized steel tubing and laser cut plates fabricated from 3.0mm (11 gauge) pre-galvanized sheet steel. Telescopes shall be rotationally molded per PPLT ROTO Specification. Panels shall be painted per PPLT PAINT Specification.
- 2.3.15.14 Monkey Lean Out Seat Panel For KB/PB: shall be fabricated from pre-galvanized 33.4 mm (1.315") diameter steel tubing welded with 11 gauge pre-galvanized sheet steel assembled as a one piece

weldment. The Panel shall be painted per PPLT PAINT Specification.

2.3.15.15 KB POST CLIMBER shall be fabricated from 33.4 mm (1.312") O.D. pre-galvanized steel tubing and steel clamp halves. Enclosure shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing, 3 mm (11 gauge) pre-galvanized sheet steel, and 3/4" X 1" FSO pre-galvanized steel tubing. After fabrication all steel components shall be painted per PPLT PAINT Specification.

2.3.15.16 MAYPOLE ring is to be a welded assembly constructed from 33.4 mm (1.315") and 48.3 mm (1.90") O.D. x 11 gauge galvanized steel tubing, 3/4" X 1" FSO pre-galvanized steel tubing, and a hub machined from 5.5" diameter x .5" wall D.O.M. tube. The Maypole post shall be a welded assembly constructed from 127mm (5.0") O.D. x 7gauge tubing, 9.5mm and 11 gauge sheet steel, and a machined steel shaft. Maypole post shall be painted per PPLT PAINT Specification.

2.3.15.17 3D ROCK CHALLENGE WALL (2235 & 2440) shall be constructed of high density polyethylene sheets. The hand grips shall be molded from a plastic resin. The steel frame is fabricated from pre-galvanized 33.4 mm (1.315") and 48.3 mm (1.875") diameter steel tubing welded with 11 gauge pre-galvanized steel brackets. Safety Loops shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing and 3 mm (11 gauge) pre-galvanized sheet steel. After fabrication all steel components shall be painted per PPLT PAINT Specification.

2.3.15.18 HYPERSONIC SLIDE shall be rotationally molded per PPLT ROTO Specification. Plastic slide bed way shall be designed with a 406 mm (16") minimum width. Slide end and mid support shall be fabricated from 60.3 mm (2.37") O.D. tubing and 4.55mm (7 gauge) pre-galvanized sheet steel. All steel components shall be painted per PPLT PAINT Specification.

2.3.15.19 VINYL CLAD CLATTER (SUSPENSION) BRIDGE (U.S. Patent #5,118,099) planks shall be pre-assembled at factory for ease of installation. Clatter Bridge planks shall be fabricated from one piece of 11 gauge punched and formed hot rolled sheet steel. The clatter bridge plank shall be dipped per PPLT PVC Specification. Assembly of planks shall be such that no open gaps occur between planks. Plank to plank joints shall be pinch proof to the user. No cables or chains shall be used in the assembly of the planks. Clatter bridges with Safety Rails shall be fabricated from 33.4 mm (1.315") pre-galvanized steel tubing, 42.2 mm (1.66") O.D. pre-galvanized steel tubing, and 3/4" X 1" FSO pre-galvanized tubing. Safety Rails

shall match the curve of the bridge and provide user stability at a consistent height along the bridge. Safety rails shall be painted per PPLT PAINT Specification.

2.3.15.20 Frame shall be fabricated from 60.3 mm (2.37") O.D. tubing and 13 ga galv sheetsteel. The frame shall be painted per PPLT PAINT Specification. Sign shall be a fiberglass embedment sign with an approximate graphics area of 559mm (22") x 333mm (13.1") and 3mm (0.125") thick. This sign will have a tensile strength of 12,000 psi, a compressive strength of 20,000 psi, a flexural strength of 18,000 psi, an impact strength of 6 ft.lbs./inch notch, a barcol hardness of 50, and a modulus of elasticity of 2,000,000 psi. The sign shall have an excellent resistance to mild acids, a fair resistance to alkalis, and an excellent resistance to solvents. The sign is to be fastened to the frame using all stainless steel hardware and will be fully supported by the steel frame.

2.3.15.21 LEAF ROOF shall be rotationally molded per PPLT ROTO Specification. Branch sections are to be fabricated from 4.55 mm (7 gauge) pre-galvanized sheet steel and 11 gauge 127mm (5") pre-galvanized tubing. All painted parts to be painted per PPLT PAINT Specifications.

2.3.15.22 TILTED ROCK CHALLENGE WALL shall be constructed of high density polyethylene sheets. The hand grips shall be molded from a plastic resin. The steel wall and feet supports are fabricated from pre-galvanized 42.2 mm (1.625") diameter steel tubing welded with 11 gauge pre-galvanized steel brackets. Safety Loops shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing and 3 mm (11 gauge) pre-galvanized sheet steel. After fabrication all parts except wall boards and hand grips shall be painted per PPLT PAINT Specification.

2.3.15.23 SQUARE VINYL CLAD METAL DECK shall cover a minimum of 1.46 square meters (2,275 square inches) of top surface area, be a one-piece construction and be designed to maintain a full 1.2 m (48") on center post spacing. Metal decks shall be fabricated from 11 gauge hot rolled steel which shall be punched, formed and reinforced with welded in place 11 gauge strips and 7 gauge plates. Decks shall have a pattern of equally spaced holes on each edge to provide flush mounting of play events that attach to the deck. This hole pattern shall allow multiple decks to be assembled at the same level providing a surface without size limitations. This assembly shall be coated per PPLT PVC Specification.

2.3.15.24 VINYL CLAD HALF DECK shall cover a minimum of .73 square meters (1,138 square inches) of top surface area and be a one-

piece construction. Metal decks shall be fabricated from 11 gauge hot rolled steel which shall be punched, formed and reinforced with welded in place 11 gauge strips and 7 gauge corner plates. Decks shall have a pattern of equally spaced holes on each edge to provide flush mounting of play events that attach to the deck. This hole pattern shall allow multiple decks to be assembled at the same level providing a surface without size limitations. This assembly shall be coated per PPLT PVC Specification.

2.3.15.25 EXTRA LARGE BALCONY VINYL CLAD METAL DECK shall cover a minimum of 1 square meters (10.6 square feet) of top surface area. Construction shall consist of one semi circle shaped deck. Metal decks shall be fabricated from 11 gauge hot rolled steel, which shall be punched, formed and reinforced with welded in place 11 gauge strips. Deck shall have a pattern of equally spaced holes on one edge to provide flush mounting to the deck. This assembly shall be coated per PPLT PVC Specification. Balcony Enclosure shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing, 11 gauge pre-galvanized sheet steel, and 3/4" X 1" FSO pre-galvanized steel tubing. Enclosure shall be painted per PPLT PAINT Specification.

2.3.15.26 KB NU-EDGE TREE CLIMBER WITH TREEHOUSE PANEL shall be made from NATURTEK material formed into the shape of a large log. It will have integral mounting plates fabricated from 3 mm (11ga) pre-galvanized sheet steel. Supports shall be fabricated from 3 mm (11 ga) pre-galvanized sheet steel, 48.3 mm (1.875") O.D. and 42.2mm (1.625") O.D. pre-galvanized tubing. Enclosures shall be fabricated from 25 mm (1") X 140 mm (5.5") durable plastic boards made from a minimum of 95% post consumer recycled content and 3 mm (11 ga) pre-galvanized sheet steel. Supports and enclosure plates shall be painted per PPLT PAINT Specification. NATURTEK material is a Polyester Composite: Color impregnated, UV stabilized, non-mold-supporting, formed from virgin corrosion-resistant polyester resin; with 1/2- to 3/4- inch (12 to 18 mm) wall thickness, with the following characteristics: Flexural Strength, ASTM D 790: 18,000 psi. ; Tensile Strength, ASTM D 638: 9,000 psi. ; Compressive Strength, ASTM D 695: 17,000 psi.; Barcol Hardness, ASTM D 2583: 40 minimum.

2.3.15.27 KB COMBO OVERHEADS shall have main beams that connect to posts constructed of 48.3 mm (1.9") OD pre-galvanized steel tubing. All hand holds shall be constructed from 33 mm (1.315") OD pre-galvanized tubing. Combo overheads attach to the posts with standard KidBuilders clamps. Combo Overheads shall be painted per PPLT PAINT Specification.

2.3.15.28 X CLIMB shall be fabricated of 2 ropes consisting of six galvanized steel cables (2.5 mm O.D. each) twisted together and wrapped with 6mm of high strength polyester fiber. Each perpendicular joint shall be rigidly secured. Climbing rungs shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing and painted per PPLT PAINT Specification. Climber shall be secured with a stainless steel eye nut to the deck edge and a stainless steel clevis at the bottom. Hand supports shall be fabricated from 60 mm (2.38") and 33 mm (1.315") O.D. pre-galvanized steel tubing. After fabrication steel components shall be painted per PPLT PAINT Specification.

.7) Approved 'alternates'

.1) All quotations in which equipment alternates are proposed **must** be accompanied by manufacturer's literature describing the equipment in detail. The Project Manager reserves the right to accept or reject the proposal.

.2) Note: Deck heights and dimensions of all proposed equivalent equipment must meet or exceed that of the specified equipment.

.8) Upon completion of all play equipment installation the following shall be provided to the Project Manager:

.1) An **assembly/maintenance tool kit** for adjustment and repair

.2) An **assembly manual** for the specified play equipment.

The supply and installation of all specified play equipment and documents is to be included within the Contractor's respective itemized Bid Price.

3) PLAYGROUND SURFACING

Playground surfacing to be poured in place rubber.

PART 3.1: Rubber Safety Surfacing Specifications

.1 Base Preparation

Works to include the supply of all labour material and equipment to complete the Type A1" Gravel Base as follows:

Install min. 200mm compacted depth of Type >1' granular base on compacted subgrade. Subgrade to be levelled and graded to 1 % min. cross slope and compacted to 95% SPD.

Tolerance of aggregate surface shall be within 10mm in 3050mm. Verify that aggregate subsurface has been fully compacted to 95%. Subgrade to be approved by HRM Project

Manager prior to installation of surfacing.

.2 **Poured in Place Rubber Surfacing**

.1 General requirements:

- Rubber base depth shall be at least 75mm.(3")
- Rubber to be mixed according to manufactures specifications provided.

.2 Scheduling

The safety surface is to be installed after the play equipment is installed. The installation will be coordinated with the play equipment installer and other site elements.

.3 Warranty

The safety surface should maintain their characteristics of impact attenuation of impact and tension strength such as stipulated in the specification. Rubber granules(SBR) as well as the ELASTOPUR polyurethane binder should be guaranteed against any manufacturing defect for a minimum duration of two years.

PART 3.2: Products

The stages of installation for the safety surface are:

- An attenuating substrate, made with rubber granules(SBR) agglomerated with an ELASTOPUR polyurethane binder to attenuate the impact of a fall.
- Wear surface to be fully comprised of coloured SBR granules and have a minimum depth of 20mm (3/4")

.1 Attenuating substrate

The attenuating substrate will consist of a rubber SBR thickness bounded with a solid 100% polyurethane binder to form a resilient, porous material. The size of SBR granules can vary between 0.5mm - 2 mm in thickness, and between 3mm - 20 mm in length. The ELASTOPUR polyurethane, in the mixture, will not be less than 14% and no more than 18%, of the total weight of the rubber and will encapsulate 100% of the rubber particle.

The attenuating substrate will be compatible with the ELASTOPUR finish coat of surface and will satisfy the requirements of attenuating of impact.

.2 Elastopur Wear Surface

Wear surface shall consist of coloured SBR rubber. The wear surface shall be porous.

.3 ELASTOPUR binder

The polyurethane binder for the safety surface will be ELASTOPUR P-235, P-237(according to the recommendation of the manufacturer). It is specifically formulated for use with rubber granules SBR for inside or outside installations. ELASTOPUR is a MDI one component, polyurethane prepolymer. No fillers will be used in the polyurethane binder and the catalysis will contain no heavy metal.

4) **BOLARDS (4)**

Works to include the supply of all labour material and equipment to supply and install 4ft high 4.5 inch schedule 40 posts set in concrete. Posts to be filled with concrete c/w yellow bollard covers. Footings to be min 4ft deep set in concrete. See site plan for approximate locations. Final locations to be laid out on site.

5) **BICYCLE RACK**

Works to include the supply of all labour material and equipment to reinstall the existing bicycle rack on concrete footing.

6) **SITE REINSTATEMENT / CLEAN UP**

- .1) The Contractor shall keep the construction area as clean and tidy as possible during construction.
- .2) The Contractor shall take all necessary action to prevent inconveniences to nearby residents, and park patrons, and to control dust from construction by cleaning mud/dirt from the road and sidewalks as required.
- .3) All existing roadways, driveways, sidewalks, grassed areas, street signs and utilities which are disturbed as a result of the undertaking of this Contract, must be reinstated to their original condition or better, unless otherwise specified.
- .4) On completion of the work, the Contractor shall remove all temporary signs, barriers, etc., and leave the site in a neat and tidy condition, free from debris, refuse and mud, to the satisfaction of the Project Manager.
- .5) All turf areas on site disturbed by the Contractor through the execution of this Contract are to be restored by the placement of min. depth of 4" topsoil and nursery sod at the Contractor's expense.
- .6) All disturbed areas to be graded to blend smoothly and naturally with adjacent grades.
- .7) Sodded areas indicated on the drawing L-1 are approximate the contractor is to adjust this accordingly to reinstate disturbed areas and provide for positive drainage. All sodding costs are to be included in the lump sum price.

The cost for the reinstatement of all disturbed areas as described herein is to be included within the Contractor Bid Price unless otherwise stated.

7) DRAWING PACKAGE

The following drawings shall form part of this contract.

<u>Drawing No.</u>	<u>Drawing Name</u>
L-1	Site Plan
L-2	Equipment Layout
L-3	Perspective - 1
L-4	Perspective - 2
L-5	Perspective - 3
L-6	Perspective -4
L-7	Site Signage

**CRICHTON PARK SCHOOL PLAYGROUND
PLAY EQUIPMENT SUPPLY AND INSTALLATION**

**Tender # 3666
Bid Sheet**

COMPANY NAME _____

COMPANY CONTACT NAME _____

CONTACT PHONE NUMBER _____ EMAIL ADDRESS _____

Indicate Earliest Start Date (For Evaluation) _____

Deborah Beck, Buyer
Halifax Regional School Board
Procurement Division
33 Spectacle Lake Drive
Dartmouth, Nova Scotia
B3B 1X7

Dear Madame:

Having examined the drawings and specifications for the **Crichton Park School Playground**, as well as site conditions affecting the work, the undersigned offers to furnish all labour and materials required for a complete job in accordance with the said documents at a price as follows;

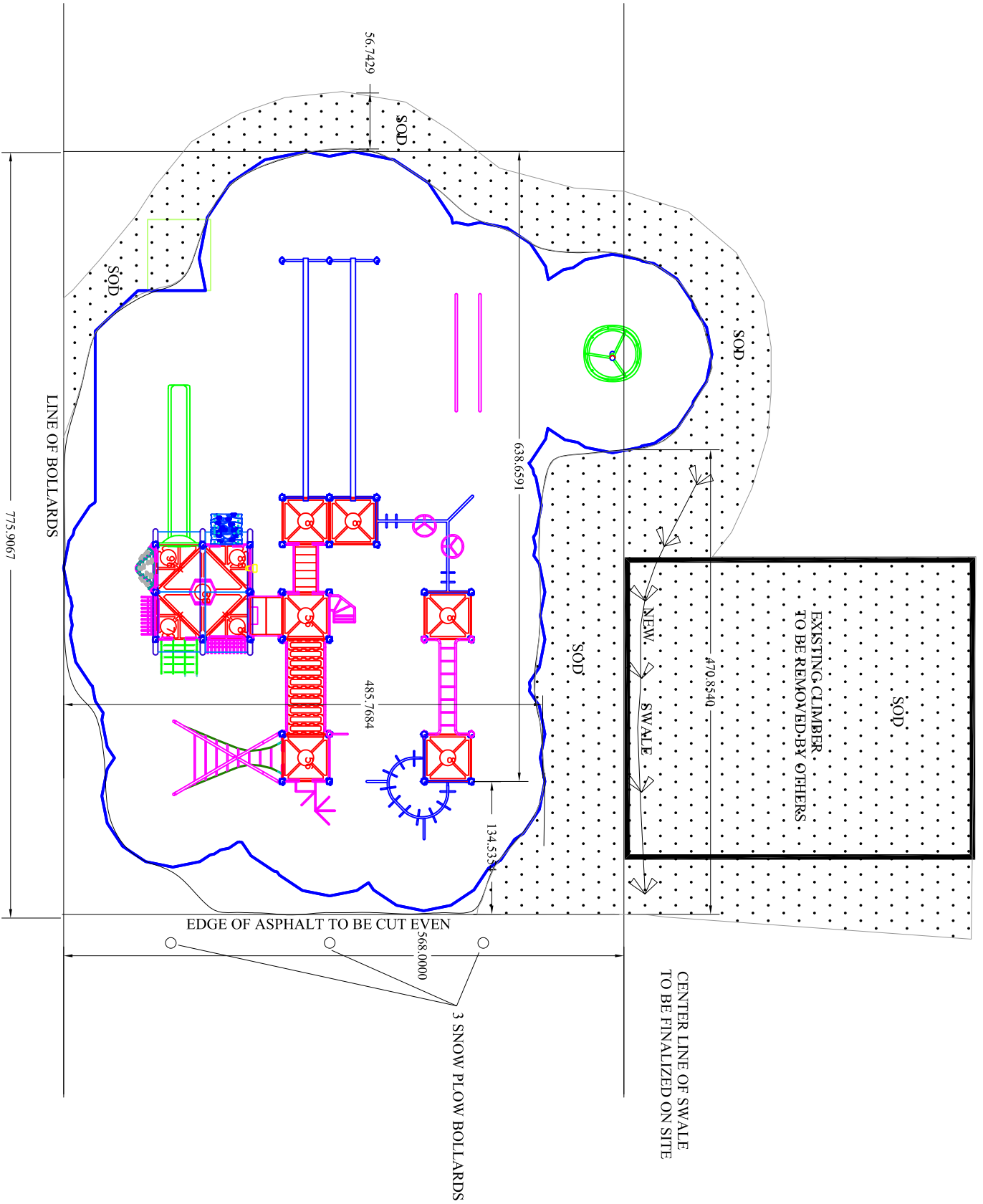
This is a Lump Sum Contract.

The HRM reserves the right to accept all or any combination of itemized bid prices and/or increase or reduce quantities within each contractors bid price. The HRM will not combine bids from other bidders but may choose to carry out work using its own forces and Standing Orders and /or substitute its own materials.

Total Lump Sum Price \$ _____

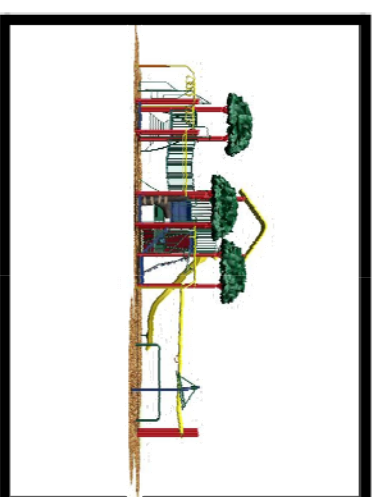
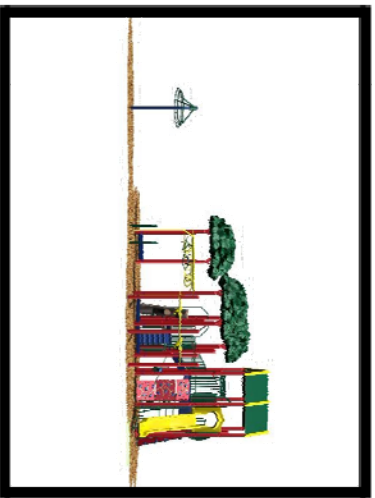
HST (15%) \$ _____

TOTAL CONTRACT PRICE \$



NOTE: DIMENSIONS ARE IN INCHES

L-1 SITE PLAN



Project:
**Crichton Park
 Elementary School**

Project No.
 LH648_41785789109_1
 Drawn: 2014-05-28

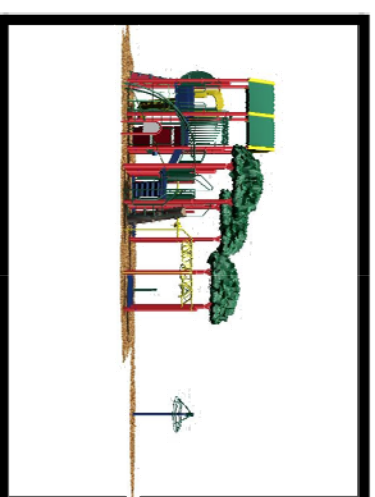
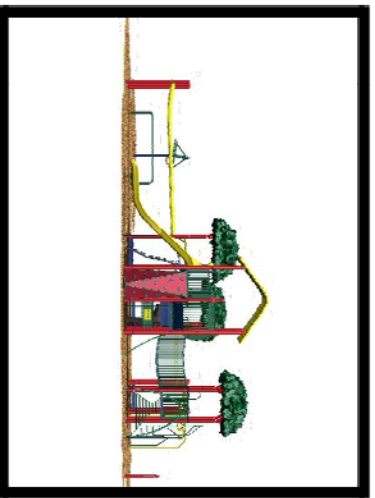
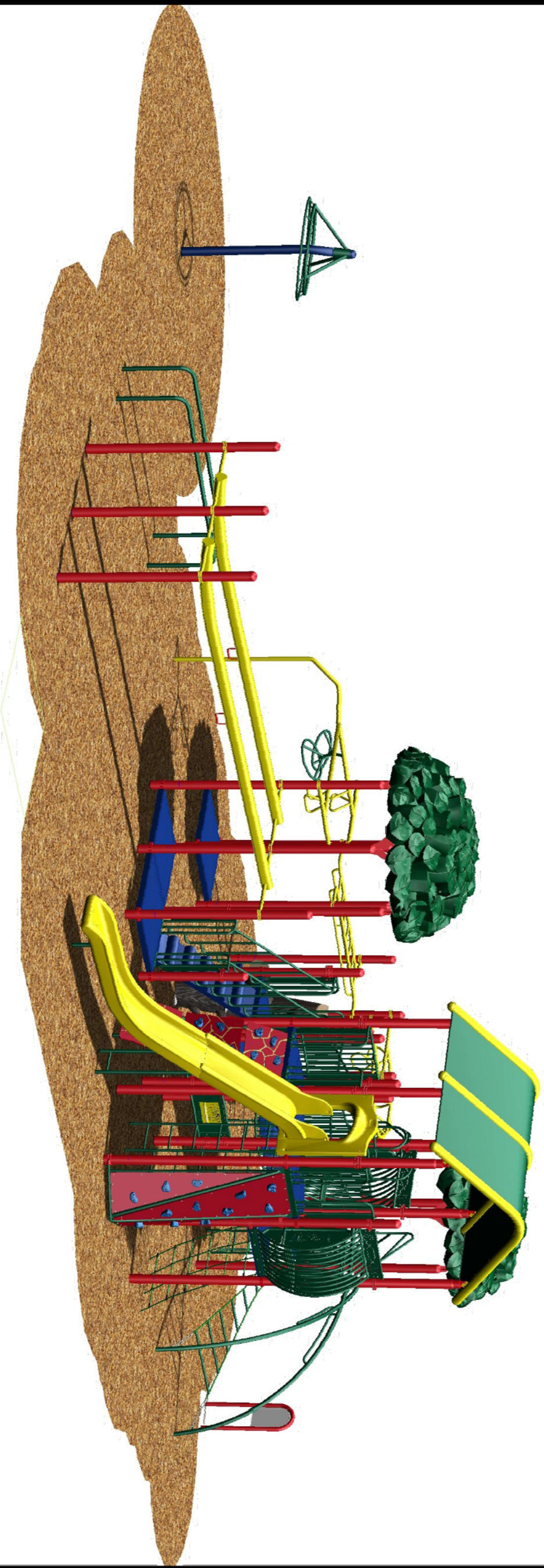
Presented By:



Scott O'Reilly
 PlayPower Canada
 800-265-9953

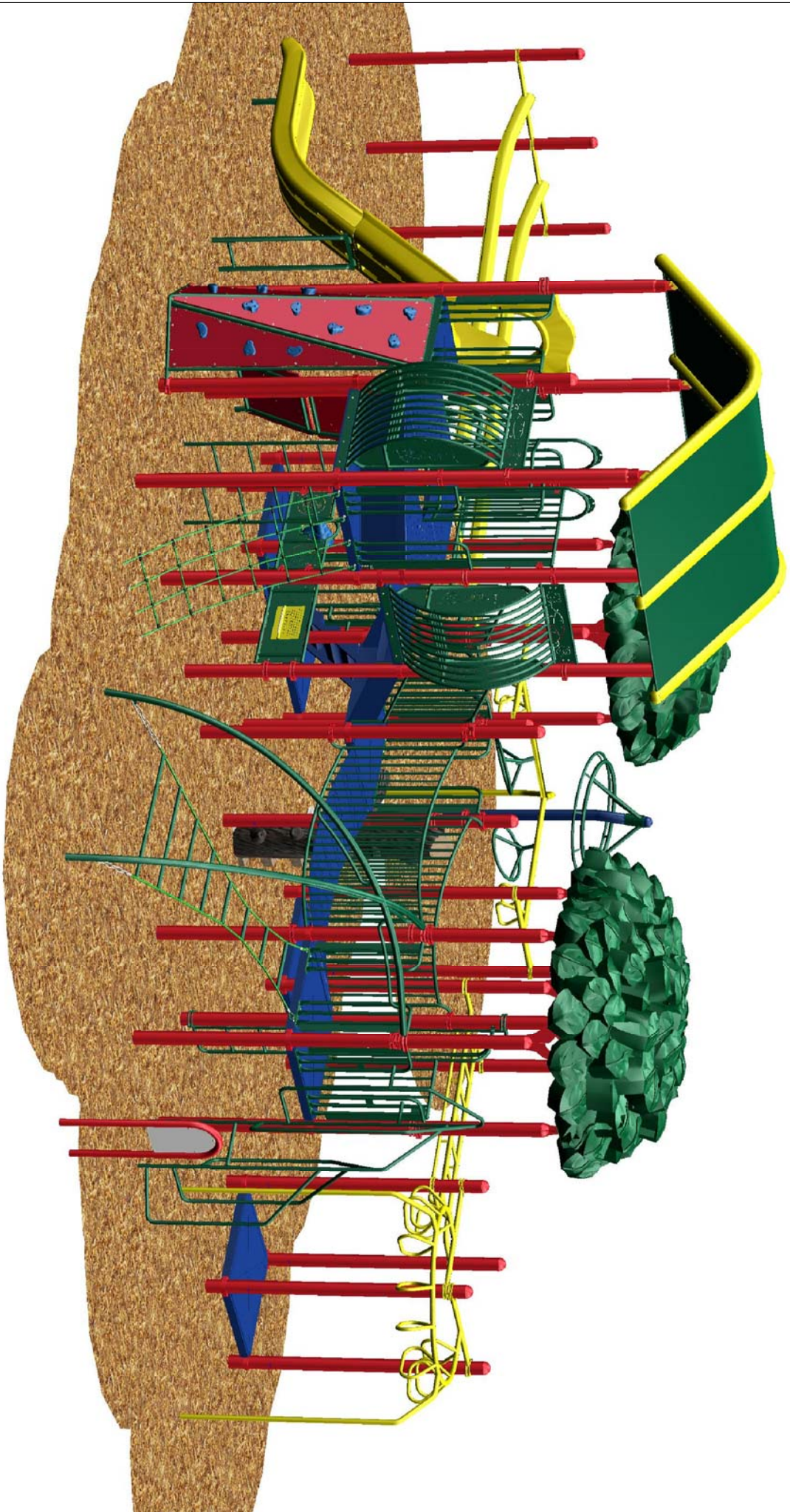


This play equipment meets the requirements of CSA Z-614-07 for children 5-12 years old. Not all equipment may be appropriate for all children. Supervision is required.

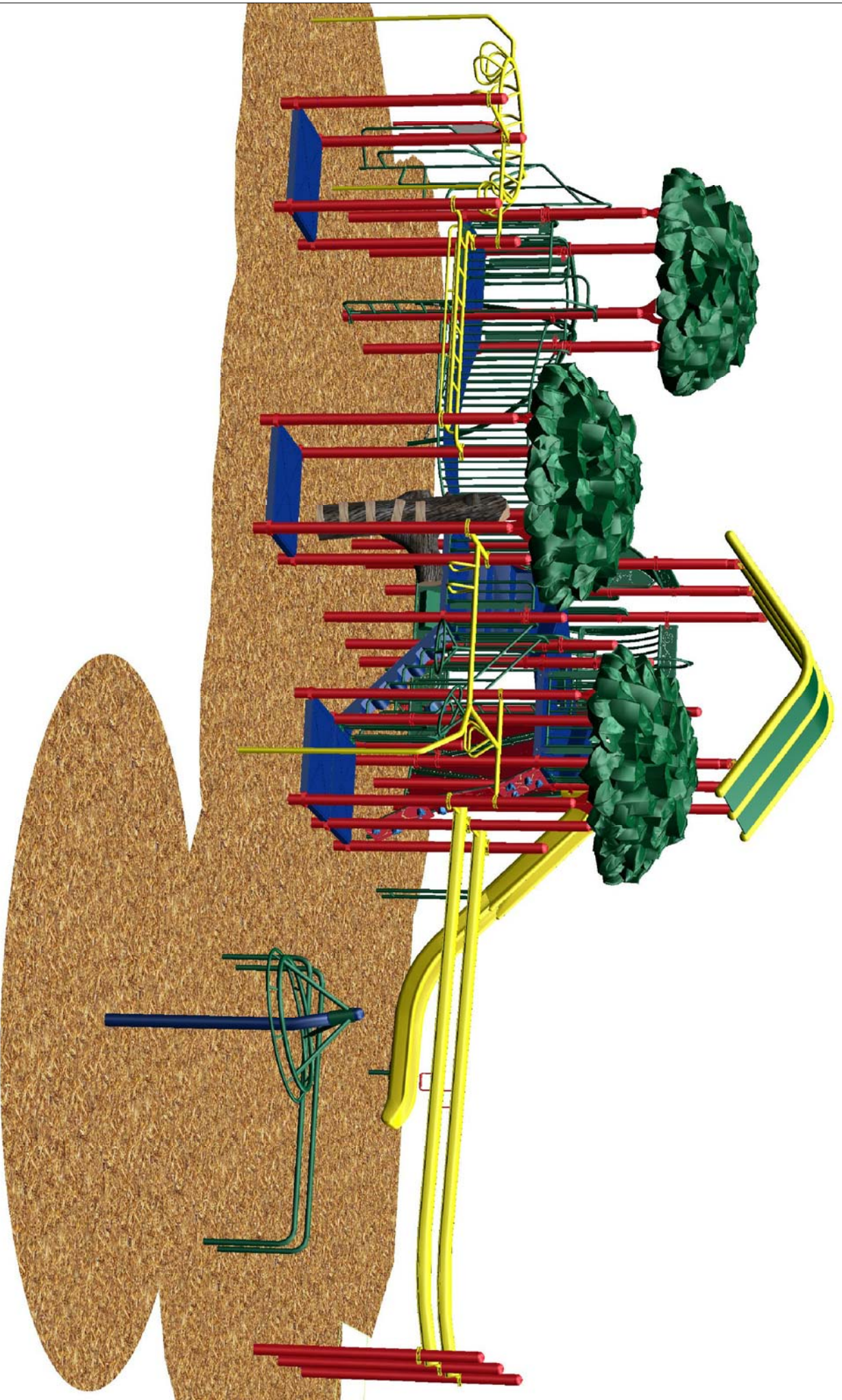


PlayPower LT Canada, Inc.
 800-265-9953 www.ktops.com

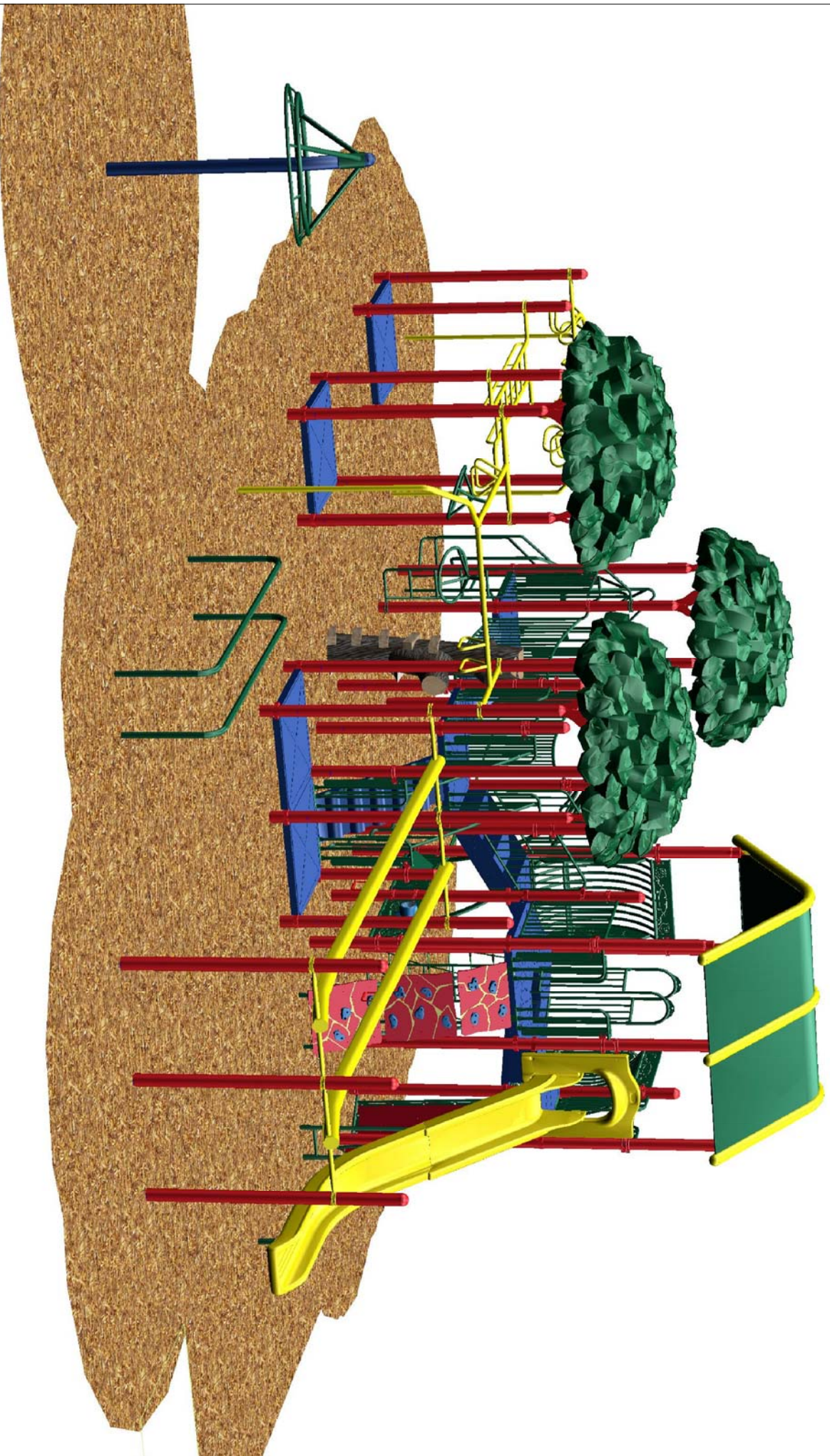
L-3 PERSPECTIVE - 1



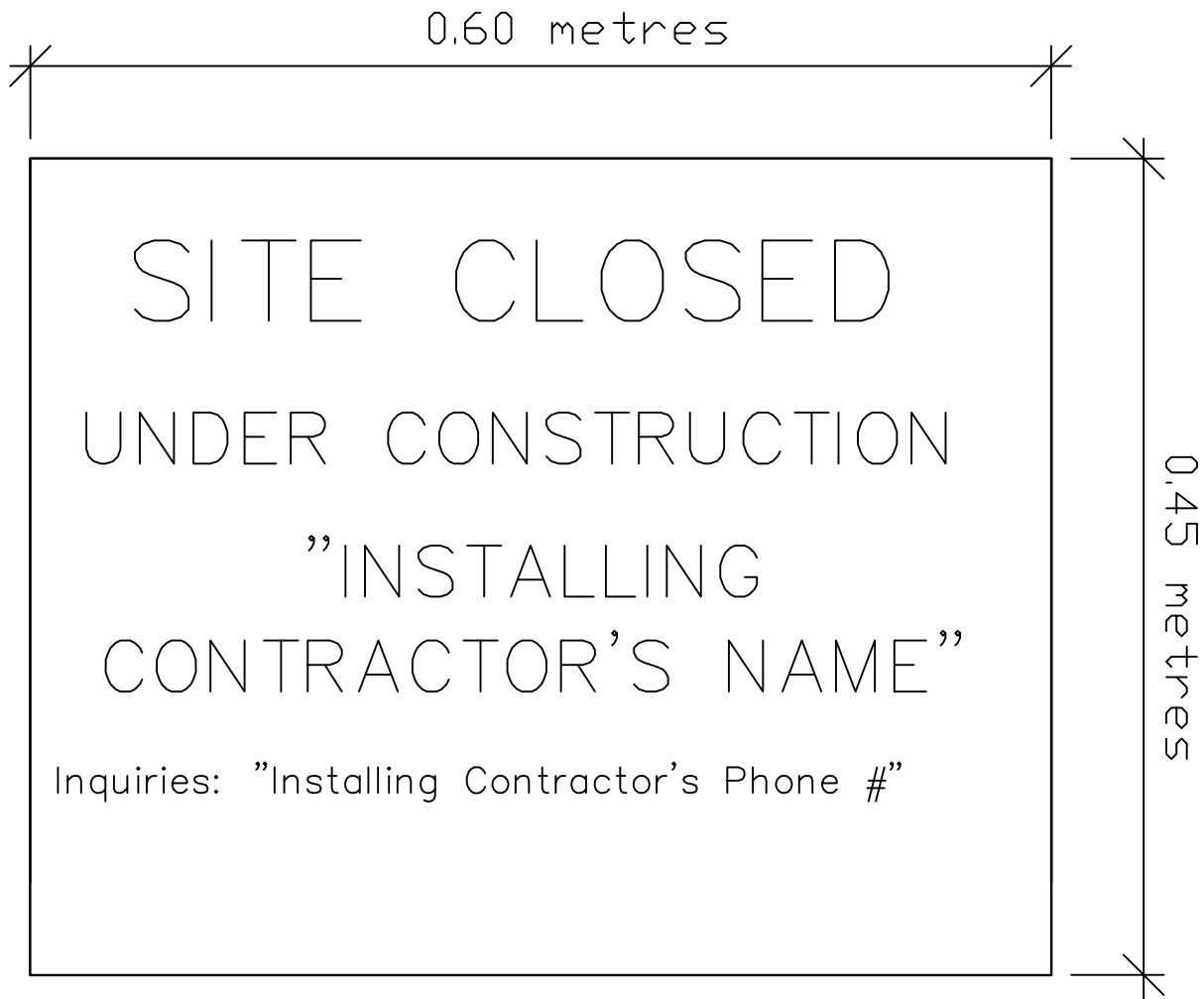
L-4 PERSPECTIVE - 2




L-5 PERSPECTIVE - 3



L-6 PERSPECTIVE - 4



1. Contractor is responsible to ensure that a minimum of two signs are clearly visible on site at all times
2. Signs are to be manufactured from a durable, reusable material. Material is subject to the Project Manager's approval

Project *PROJECT NAME*			
Title Security Signage	Scale N.T.S.	Drawn by: gvy	
Proj. No.	Date June 2010	Approved by:	L-7