

PART I - GENERAL

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| <u>1.1 Related Work</u> | .1 | Play Structures | : | Section 02863 |
| <u>1.2 Scope of Work</u> | .1 | The contractor is to supply, deliver, place and spread sand within the playground perimeter to a minimum depth of 300 mm (12") as measured at any point within the perimeter after surface has been left smooth, uniform, firm against deep foot printing, and with a fine loose texture or at a compaction of 85% SPD or as otherwise noted. | | |
| | .2 | Co-ordinate work in this section with work in all other sections. | | |
| <u>1.3 Source Quality Assurance</u> | .1 | The contractor shall supervise all work in this section until total performance. | | |
| | .2 | When requested, the contractor and supplier shall make arrangements for inspection of the material at the source by the Community Services representative. | | |
| | .3 | Documentation from the source as to the material sold, quantity, destination, etc. shall be made available to the Community Services representative within 72 hours of a request. | | |
| | .4 | Samples of the material from the source shall be made available at the contractor's expense, to the Community Services representative within 24 hours of a request. | | |
| <u>1.4 Product Delivery, Storage, Handling</u> | .1 | The contractor will co-ordinate all truck and equipment traffic so as not to impede the daily use of park, walkway or street. | | |
| | .2 | The contractor will be responsible for any damage to public or private property. | | |
| | .3 | Sand will be stored so as to not impede the daily use of park, walkway or street and in such a way as to avoid contamination. | | |
| <u>1.5 Alternatives</u> | .1 | Substitutions must be approved in writing by the Community Services Department. | | |
| | .2 | Should the contractor proceed to use sand which does not meet the material specifications, the Community Services Department shall proceed to have such works corrected at the contractor's expense. | | |

- 1.6 Guarantee .1 The contractor shall guarantee all material and workmanship for a period of two years from the date of Preliminary Acceptance by the City.

PART II - PRODUCTS

- 2.1 Materials .1 The sand shall be a natural, washed sand of rounded particles, free of fines, clay, silt, stones, or other debris. Representative type - #2 washed sand as produced by Franceschini Bros. of Mississauga or approved equal.

- .2 **Sand shall meet the following gradation specifications.**

<u>Sieve Size</u>	<u>Percent Passing</u>
9.5 mm	100
6.7 mm	100
4.75 mm	99.9
2.36 mm	97-100
1.18 mm	70-90
600 um	25-60
300 um	5-25
150 um	0-3
75 um	0-1

- 2.2 Testing and Quality Control .1 The contractor is to supply a 1 kg. sample of the installed sand plus gradation test results from an independent consultant when requested by the Community Services Department.
- .2 If the installed sand fails the gradation test, the contractor will be responsible for removing the failed sand from the site and replacing it with approved City of Mississauga Playground Sand. All damage to the site and park equipment, as a result of sand removal, will be reinstated by the contractor.
- .3 Test costs borne by the City of material found to be substandard shall be charged against the contractor.

PART III - EXECUTION

- 3.1 Preparation .1 The playground area is to be cleared of debris.

- .2 The subgrade is to be as per the approved drawings and shall be approved by the Community Services representative prior to installation of sub-drains and sand. The subgrade shall have all ruts filled and levelled and loose fill levelled and/or removed.
- .3 Sub-drains shall be installed in accordance with the approved drawings and Section 02712.
- .4 Where sand is being placed over existing sand, the existing sand shall be raked, cleaned and scaified to a minimum depth of 50mm, before installation of new sand, and reference marks shall be made using an indelible marker at 300 mm (12") height on play equipment uprights to gauge the proper depth of new sand required.

3.2 Installation

- .1 Sand shall be spread evenly over the entire surface within the playground perimeter, yielding an even, level surface.
- .2 Sand shall be placed in such a manner as to avoid contamination by existing sand or other material.
- .3 Depth of sand shall be a minimum 300 mm (12") or as otherwise noted as measured at any point within the perimeter after surface has been left smooth, uniform, firm against deep foot printing, and with a fine loose texture or at a compaction of 85% SPD or as otherwise noted.
- .4 Equipment which has been substantially installed cannot be left over weekends without provision of protective sand surface.
- .5 Depth of sand is to be maintained until Final Acceptance is given by the City.

END OF SECTION 02861