

1.0 GENERAL

1.1 General

- .1 A site has been designated on the landscape plans for the placement of the playground equipment.
- .2 The playground equipment shall be constructed and installed in compliance with current industry and City of Medicine Hat standards and practices.
- .3 All playground structures shall adhere to CAN/CSA - Z614 - 14.

2.0 MATERIALS

2.1 General

- .1 All materials shall be new and in accordance with the specifications unless changes are approved in writing by the Project Manager.

2.2 Materials

- .1 Low Impact Surface - clean, washed, rounded, fine pea gravel, free of soil. The pea gravel shall conform to ASTM C136-84a test results and be graded within the following limits:

<u>Screen Size</u>	<u>Percent Passing Through Screen</u>
14.000 mm	100.0%
12.500 mm	99.2%
10.000 mm	64.4%
5.000 mm	0.9%
2.500 mm	0.7%
1.250 mm	0.6%
0.630 mm	0.5%
0.315 mm	0.3%
0.160 mm	0.2%
0.080 mm	0.2%

- .2 Borders: The following alternatives can be utilized:
 - .1 Concrete: 150 mm (6 inch) concrete curbing.

- .2 Pressure Treated Wood: 100 mm (4 inch) width, depth 50 mm (2 inch) in excess of low impact surface.
- .3 Concrete mix shall be in accordance with the following:
 - Minimum 28 Day Strength..... 25 MPa*
 - Designated Aggregate Size.....maximum 25 mm (1 inch)
 - Slump.....25-75 mm (1-3 inches)
 - Air Entrainment5 - 7 %
 - Cement Type 10 Normal Portland Cement
 - Calcium Chloride.....ASTM D98, 2% maximum, with Project Managers approval

3.0 EXECUTION

3.1 General

- .1 The site shall be staked by the Contractor prior to excavation. The Contractor is responsible for verifying all measurements as per the drawings.

3.2 Utility Locates

- .1 The Contractor shall be responsible for all utility locates. Contact the utility companies 48 hours prior to start of work for locates.

3.3 Excavation of Site

- .1 Excavate area to proper elevations as indicated in the drawings.

3.4 Disposal of Material

- .1 Disposal to be at Current City of Medicine Hat landfill sites. Determine the suitability of disposal area and all special treatment, schedules or costs that apply to the use of the site and include all costs in the contract price.
- .2 Private dumpsite arranged for by the Contractor, in which case disposal to be in strict accordance with City regulations. This does not relieve the Contractor of the responsibility of hauling to City landfill site should the private site become unavailable for any reason.

3.5 Borders

- .1 The safety zone described as the distance between the play equipment and the border shall meet or exceed the Canadian Standards Guidelines CAN/CSA - Z614-14.
- .2 The borders shall be level with the finished grade.
- .3 The border shall be fixed in place according to manufacturers recommendations.

3.6 Low Impact Surface

- .1 The depth of pea gravel shall be placed according to what is specified on the playground design.

3.7 Installation

- .1 Supply and install playground equipment as per specified drawings. The equipment shall be installed according to manufacturer's specifications.
- .2 The playground equipment must be installed by a certified playground installer.
- .3 The drawings included in this specification package is a minimum guideline for the installation of concrete footings. The depth or amount of concrete may increase or decrease dependent on the load limits of the particular piece of equipment being installed.
- .4 All concrete footings shall be installed a minimum of 0.3 m (1 foot) below grade.
- .5 The low impact surface (fine pea gravel), meeting the material requirements of these specification shall be supplied and installed by the Contractor and installed to a minimum depth as specified on the playground design and shall be a minimum of 50 mm (2 inches) below the top of the border. Depth of low impact surface may vary with height of equipment.
- .6 The Contractor shall have the completed work inspected by the manufacturer in conjunction with the Project Manager.
- .7 The Manufacturer shall complete the Playground Equipment Compliance

Inspection Report (Annual Comprehensive Report) as prepared by the Canadian Playground Safety Institute, immediately after the playground equipment is installed. This report shall be submitted to the Parks and Outdoor Recreation Department.

3.8 Site Rehabilitation

- .1 Any damage that may be caused by the Contractor, his employees or equipment or subcontractors shall be restored to pre-construction condition at the Contractor's expense and to the satisfaction of the Project Manager.
- .2 Any area damaged or disturbed as part of the construction shall be sodded according to the City's General Landscape Specifications.

END OF SECTION