PART 1 - GENERAL

1.01 Description: Furnish all labor, equipment and materials to install (or blow in) the Engineered Wood Fiber Safety Surfacing (EWFSS) as shown on the plans and details or as otherwise specified.

1.02 Related Sections:

Section 31 00 00 - Earthwork
Section 33 34 00 - Storm Drainage Utility

1.03 Quality Assurance:

A. Manufacturer's Instructions: Strictly adhere to the manufacturer's instructions regarding product handling, sub-base preparation, surfacing system application and all other aspects of the surfacing installation.

B. The contractor who is installing the surfacing shall have at least 5 recent (within the last 3 years) installations of EWFSS and shall have personnel, facilities and equipment for the specified work. The contractor shall also submit evidence of the recent installations of the surfacing materials.

C. Special Requirements:

1. The engineered wood safety surface products shall meet or exceed the current Consumer Products Safety Commission 200-g Guideline and ASTM F2075. The Contractor shall submit two copies (2) of the manufacturer's independent test results showing conformance. Reports shall be for the exact depth that is specified to be installed.
2. Warranties: Provide the manufacturer's five-year materials warranty for all safety surfacing systems materials.
3. Disabled Accessibility (ADA): Provide testing date showing products meet the requirements of the most current Americans with Disabilities Act.

1.04 Submittals:

A. Not less than 6 days prior to the intended use of the materials, the Contractor shall submit the full documentation of the specific product literature, illustrating it's compliance with this section.

B. The contractor shall submit to the Engineer, for approval, material samples that are to be used and the proposed methods of application and procedures that are to be followed.

C. Submit the test results for impact attenuation in accordance with ASTM F1292 (most recent edition).

PART 2 - PRODUCTS

2.01 General:

A. The EWFSS shall have fall or shock attenuation not to exceed 200g and 1000 HIC for an eight foot (8') height as per ASTM F1292 (most recent edition).

B. The EWFSS shall be constructed of random sized manufactured wood fiber material, specifically designed to be accessible play area safety surfacing materials.

C. The manufacturer supplied Geo-textile Fabric, in sufficient quantity to allow for at least 3" of overlap at all seams.

D. Sub-surface drainage is required and play area containment areas shall be installed with the sub-grade surface sloping (2% min.) towards the drainage trenches. The EWFSS system shall include drainage matrix which allows the EWFSS to be free-draining and positively flows to the sub-surface drainage system.

2.02 Recommended Manufacturers:

A. "Wood Carpet" - as manufactured by Zeager Brothers, Inc.

B. "Sof'Fall - as manufactured by Sof'Fall, Inc.

C. "GT-Impax" - as manufactured by GameTime, Inc.

D. "Fibar" – as manufactured by The Fibar Group, LLC.

E. "Engineered Wood Fiber" - as manufactured by MD Materials.

F. Or, approved equal.

2.03 Recommended Sources:

A. Ivary Enterprises, Inc. (Sof'Fall)
Ph. (888) 305-0504
Email: ivaryent@comcast.net

B. PlayCreation (Wood Carpet)
Ph. (206) 932-6366
Email: john@playcreation.com

C. Northwest Recreation (Wood Carpet)
Ph. (360) 357-9966
Email: nwrecreation@comcast.net

D. Playscapes Northwest (Sof'Fall)
Ph. (206) 851-5427

Email: lynda@playscapesnw.com

E. *Site Lines Park & Playground Products (GT-Impax)*
Ph. (425) 355-5655 (Ext.24)
Email: max@sitelines.com

F. *Cascade Recreation, Inc. (Fibar)*
Ph. (253) 566-1320 or (888) 280-8010
Email:: jill@cascaderec.com

G. *Northwest Playground Equipment (Engineered Wood Fiber)*
Ph. (425) 313-9161
Email: bob@nwplayground.com

H. *Highwire, Inc. (Wood Carpet)*
Ph. (206) 228-3843
Email: Peter@Highwireus.com

I. *Allplay Systems (Wood Carpet)*
(425) 766-7822
Email: jeff@allplaysystems.com

J. *Or, approved equal.*

2.04 Wear Mats & Anchors: Ware mats are required under all swing seats and at the exit points of all slides. Wear mats shall be installed per manufacturer's specifications and recommendations. They shall also be made from recycled materials to the greatest extent possible. Provide (1) 4' x 6' x 2" mat at each swing belt seat and (1) 3' x 4' x 2" mat at each slide exit.

2.05 Drainage, Drainage Matrix, Liners and Geo-textile Fabric: Refer to Specification Section 33 20 00 - Storm Drainage Utility and the Civil drawings for drainage design, for construction details included in these Contract Documents. All drainage products shall be installed per manufacturer's recommendations.

A. ***Drainage matrix - Recommended Manufacturers:***

1. ***"Duradrain System - as manufactured by Zeager Brothers, Inc.***
2. ***Or approved equal.***

B. ***Liners - Recommended Manufacturers:***

1. ***"Duraliner System - as manufactured by Zeager Brothers, Inc.***
2. ***Or approved equal.***

PART 3 - EXECUTION

3.01 EWFSS Installation: The contractor shall strictly conform to the manufacturer's instructions using all appropriate accessories as required. Install surfacing to the compacted depth specified on the Drawings, allowing for settling and compaction of approximately 25%. Install surfacing carefully to avoid contamination of wood fiber material with dirt, gravel or other materials.

3.02 Wear Mat Installation: Coordinate with the installation of the engineered wood safety surfacing and set the mat depth to approximately six inches below finished grade. Bury mat halfway down into the safety surfacing material with 6" of cover. Install mats with (4) Duckbill anchors per mat.

3.03 Drainage Matrix Installation: Install drainage matrix products per manufacturer's instructions, using all appropriate accessories, as required. Option on lieu of drainage rock in play area: Install surfacing manufacturer provided 5" wide geo-textile wrapped drainage strips to a maximum of 6' on center throughout the play area, orienting the drains towards the drainage collector.

3.04 Inspection: Examine the areas and conditions under which the work of this section will be completed. Do not proceed until conditions detrimental to the proper and timely completion of the work have been satisfactorily corrected and thus meet the manufacturer's instructions. Beginning of work constitutes the acceptance of site conditions as satisfactory.

3.05 Cleanup: Sweep and/or rake wood materials away from all paved surfaces and remove it from all surrounding turf or planted areas.

3.06 Warranty: The Contractor shall warranty that all work performed under this section shall be free from any defects in materials and workmanship. Upon notice in writing, within **two (2) years** of Physical Completion, from the Engineer to the Contractor shall, at no cost to the Owner, make all necessary repairs or replacements of the defective work in question. During this period of warranty, the Owner shall perform normal maintenance.

END OF SECTION