

WILES HILL PLAYGROUND MEASURE AND PAYMENT

#1 - MOBILIZATION/DEMOBILIZATION

Mobilization/Demobilization will be paid for by the Lump Sum (LS) Unit bid cost. The cost for this item shall not exceed 5% of the total project bid.

#2 - DEMOLITION, REMOVAL OF EXISTING WALLS

Demolition, Removal of Existing Walls will be paid for by the Lump Sum (LS) unit bid cost. This item includes removal and disposal of all existing wall material, backfill, etc. associated with the existing wall and disturbed area.

#3 - DEMOLITION, REMOVAL OF EXISTING PLAY SURFACE AND SUBBASE

Demolition, Removal of Existing Play Surface and Subbase will be paid for by the Lump Sum (LS) unit bid cost. Play surface includes rubberized surface and mulch area. This item includes removal and disposal of the existing play surface and associated subbase as well as all borders, mulch, ground cover etc. associated with the existing playground area. Existing subbase shall not be reused. Existing playground equipment shall remain. This item includes any means necessary for protection of equipment during proposed work.

#4 - TOPSOIL, STRIP AND STOCKPILE, ASSUME 6" DEPTH

Topsoil, Strip and Stockpile, Assume 6" Depth will be paid for by the Cubic Yard (CY) unit bid price and shall include stripping, stockpiling, and erosion control. Quantity is for informational purposes only and is based on an estimated 6" depth. The Contractor shall be responsible for stripping topsoil and stockpiling topsoil regardless of the actual depth and all payment will be held strictly to the estimated yardage with no increase or reduction in quantity. The contractor should also account for any double handling in the unit bid cost. This item includes installation and removal of an 8" compost filter sock along the downstream perimeter. Earthwork cut associated with this project shall be considered incidental to this item.

#5 - TOPSOIL, REPLACEMENT, 4" DEPTH

Topsoil, Replacement, 4" Depth will be paid for by the Cubic Yard (CY) unit bid price and shall include handling, placement, grading, and erosion control. The quantity is for informational purposes only and is based on an estimated 4" depth. All payment will be held strictly to the estimated yardage with no increase or reduction in quantity. The contractor should also account for any double handling in the unit bid cost. This item includes fine grading to within a tolerance of 1" of the grades and lines as per the plans. Topsoil shall be tracked in. Topsoil shall be screened, rock-hounded, etc. so that no debris, stones, or clumps of topsoil greater than 3/4" exist. Debris, stones, etc. from the screening/rock-hounding process shall be disposed from the site. Quantity includes using stripped topsoil. If actual field stripped topsoil does not meet the quantity total, then the stripped topsoil volume shall be supplemented with imported topsoil from off-site. Off-site topsoil shall be in accordance with ASTM D 5268. Topsoil shall consist of natural, friable, sandy loam, native upland topsoil. The source of the topsoil must be approved by the owner's representative before delivering topsoil to the site. Topsoil shall be obtained from naturally well-drained sites where topsoil occurs at least 4 inches deep, a horizon only; do not obtain from lakes, ponds, bogs or marshes. Topsoil shall have the physical properties of tilth (ease of tillage), structure, water infiltration, and water-holding capacity. Topsoil shall not be muddy or frozen.

#6 - EXCAVATION - CUT

Excavation - Cut will be paid for by the Cubic Yard (CY) Unit bid price. All earthwork is unclassified. No additional payment will be made for rock excavation. Price shall include the excavation for roads and compound preparation as necessary to accomplish the purpose of these plans including, cut, fill,

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placement, compaction, and testing. Earthwork quantity is for informational purposes only and will be paid strictly to the CY estimate with no increase or reduction in quantity. The Contractor shall be responsible for completing the full scope of the project within this bid quantity. This item includes the preparation of the subgrade for the pour-in-place play surface area. Subgrade shall follow the lines and grades of finished ground and compacted and tested as per WVDOH standards and specifications. Subgrade shall be within the tolerance of 3/4". Unsuitable, excavated material not used in the cut/fill operations shall be removed from the site and shall be considered incidental to this pay item.

#7- REMOVE EXCESS CUT

Remove Excess Cut will be paid for by the Cubic Yard (CY) Unit bid price. Excess cut quantity is for informational purposes only and will be paid strictly to the CY estimate with no increase or reduction in quantity. #6 - Excavation – Cut.

#8 - POURED-IN-PLACE PLAY SURFACE, 3.875" DEPTH (CFH=96")

Poured-in-Place Play Surface, 3.875" Depth (CFH=96") will be paid for by the Square Yard (SY) Unit bid cost and shall include all materials and labor necessary for the completion of this item as per surface manufacturer's recommendations. The poured-in-place play surface shall be NO FAULT brand and installed by a certified contractor. The surface is composed of 3.5" of impact course and 3/8" wear layer. The color mix shall be 50% tan and 50% black. The finished surface shall be accessible with no slope greater than 2.0% in any direction.

#9 - POURED-IN-PLACE PLAY SURFACE SUBBASE, 4" DEPTH

Poured-in-Place Play Surface Subbase, 4" Depth shall be paid for by the Square Yard (SY) unit bid price and shall include all materials, labor, and testing necessary for the completion of this item. Subbase shall be furnished and installed as per WVDOH standards and specifications. The subbase shall be sloped accordingly with finished grade and provide positive drainage to the proposed perforated underdrains.

#10 - POURED-IN-PLACE PLAY SURFACE CONCRETE CONTAINMENT BORDER

Poured-in-Place Play Surface Concrete Containment Border shall be paid for by the Lineal Foot (LF) unit bid price and shall include all materials, labor, and testing necessary for the completion of this item. This item includes concrete, reinforcement, subbase, joining hardware, rebar staking, etc. The finished grade surface of the border shall be flush-mounted with the play surface and adjacent grade. Concrete curb shall be consistent with WVDOH standards and specifications.

#11- 8" DIA. N-12 HDPE STORM (SOLID)

8" Dia. N-12 HDPE Storm (Solid) shall be paid for by Lineal Foot (LF) unit bid price and shall include all materials and labor necessary for the completion of this item and shall be furnished and installed as per WVDOH standards and specifications. This item includes excavation, backfilling, pipe, fittings, aggregate bedding, geotextile, backfill, and restoration.

#12 - 4" DIA. UNDERDRAIN, N-12 HDPE STORM WRAPPED IN GEOTEXTILE (PERFORATED)

4" Dia. Underdrain, N-12 HDPE Storm Wrapped in Geotextile (Perforated) shall be paid for by Lineal Foot (LF) unit bid price and shall include all materials and labor necessary for the completion of this item and shall be furnished and installed as per WVDOH standards and specifications. This item includes excavation, cleanouts, caps, backfilling, pipe, fittings, aggregate bedding, geotextile, backfill, and restoration.

#13 - 6" DIA. UNDERDRAIN, N-12 HDPE STORM WRAPPED IN GEOTEXTILE (PERFORATED)

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6" Dia. Underdrain, N-12 HDPE Storm Wrapped in Geotextile (Perforated) shall be paid for by Lineal Foot (LF) unit bid price and shall include all materials and labor necessary for the completion of this item and shall be furnished and installed as per WVDOH standards and specifications. This item includes excavation, cleanouts, caps, backfilling, pipe, fittings, aggregate bedding, geotextile, backfill, and restoration.

#14 - 8" DIA. N-12 HDPE STORM END SECTION

8" Dia. N-12 HDPE Storm End Section shall be paid for by each (EA) unit bid price and shall include all materials and labor necessary for the completion of this item and shall be furnished and installed as per WVDOH standards and specifications. This item includes excavation, backfilling, connections to pipe, fittings, aggregate bedding, and backfill.

#15 - 12" DIA. INLINE YARD DRAIN

12" Dia. Inline Yard Drain shall be paid for by Each (EA) unit bid price and shall include all materials and labor necessary for the completion of this item and shall be furnished and installed as per WVDOH standards and specifications. The yard drains shall be ADS Nyloplast drain basins or approved equal. This item includes excavation, backfilling, bedding, drain, grate, and connections to pipe. The lid shall be ductile iron, 12" square, pedestrian safe, and locking.

#16 - R-3 RIPRAP, 9" PLACEMENT THICKNESS

R-3 Riprap, 9" Placement Thickness shall be paid for by Cubic Yard (CY) unit bid price and shall include all materials and labor necessary for the completion of this item and shall be furnished and installed as per WVDOH standards and specifications. This item includes excavation, backfilling, riprap, geotextile, and restoration.

#17 - SEGMENTAL BLOCK RETAINING WALL 1

Segmental Block Retaining Wall 1 will be paid for by the SF of face of wall. Face of wall is defined as the base blocks, intermediate blocks, and the wall cap. This item includes all excavation, base preparation and base, blocks, caps, stone aggregate backfill, geogrid layers, drainage (4" perforated drain), site restoration, and all materials and labor necessary for the completion of this item. The wall system shall be Keystone Retaining Wall Systems or approved equal and be installed as per the manufacturer's standard details and specifications. The wall cap shall be exposed and act as a mulch containment border.

#18 - SEGMENTAL BLOCK RETAINING WALL 2

Segmental Block Retaining Wall 2 will be paid for by the SF of face of wall. Face of wall is defined as the base blocks, intermediate blocks, and the wall cap. This item includes all excavation, base preparation and base, blocks, caps, stone aggregate backfill, geogrid layers, drainage (4" perforated drain), site restoration, and all materials and labor necessary for the completion of this item. The wall system shall be Keystone Retaining Wall Systems or approved equal and be installed as per the manufacturer's standard details and specifications. The wall cap shall be exposed and act as a mulch containment border.

#19- ALUMINUM FENCE

Aluminum Fence will be paid for by the LF of fence. Fence shall include fence sections, posts, endcaps, accessories, excavation, fill, foundations, concrete, sleeves, etc. and all materials and labor necessary for the completion of this item.

#20 – EROSION CONTROL BLANKET, NORTH AMERICAN GREEN S75BN OR APPROVED EQUAL

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Erosion Control Blanket, North American Green S75BN or Approved Equal will be paid for by the Square Yard (SY) Unit bid cost and shall include all materials, labor, and maintenance for the completion of this item. Blankets shall be maintained and/or replaced as necessary until 70% vegetated state is achieved.

#21 - SEEDING AND SOIL SUPPLEMENTS, KY-31 TALL FESCUE

Seeding and Soil Supplements, KY-31 Tall Fescue will be paid for by the Square Yard (SY) unit bid price and shall include all materials and labor necessary for the completion of this item and shall be furnished and installed as per WVDOH standards and specifications. This item includes seed, fertilizer, limestone, mulch, and soil testing to determine proper soil supplements. Areas failing to establish 100% cover shall be reseeded, re-mulched, and supplements reinstalled as required to produce 100% coverage. Rework shall be considered incidental to this item.

#22 - 12" COMPOST FILTER SOCK

12" Compost Filter Sock will be paid for by Lineal Foot (LF) unit bid price and shall include all materials and labor necessary for the completion of this item and shall be furnished and installed as per WVDOH standards and specifications. This item includes compost filter sock, handling of materials, staking, maintenance of compost filter sock, and removal and disposal of the compost filter sock.