

REVISED: OCTOBER 25, 2006
EFFECTIVE DATE: NOVEMBER 15, 2006

**COUNTY OF PRINCE WILLIAM
DEPARTMENTS OF TRANSPORTATION / PUBLIC WORKS
UNIT PRICE LISTS
FOR
PERFORMANCE BONDS, LANDSCAPING ESCROWS, AND SILTATION &
EROSION CONTROL ESCROWS**

PROJECT NAME: _____

P.W.C. FILE #: _____ **DATE PREPARED:** _____

NOTE: This form is to be used to estimate performance bond, landscaping escrow and soil erosion escrow prices posted with Prince William County. These prices do not include items that are to be bonded separately with the Virginia Department of Transportation.

1. MOBILIZATION/DEMOBILIZATION OF CONSTRUCTION EQUIPMENT

Mobilization/Demobilization @ Lump Sum \$10,000.00 (min.)

2. STORM DRAINAGE

A. STRUCTURES

<u>QUANTITY</u>		<u>COST</u>
_____ DI-1	@ \$3,500 EA	_____
_____ DI-3	@ 3,500 EA	_____
_____ DI-4	@ 5,000 EA	_____
_____ MH-1	@ 2,500 EA	_____
_____ MH-2	@ 3,000 EA	_____
_____ JB-1	@ 5,000 EA	_____
_____ DI-7	@ 3,500 EA	_____
_____ DI-12	@ 3,500 EA	_____
SUB-TOTAL \$		_____

B. CONCRETE PIPE

<u>QUANTITY</u>	<u>COST</u>	<u>QUANTITY</u>	<u>COST</u>
_____ 12"0 @ \$ <u>35</u> LF	_____	_____ 36"0 @ \$ <u>85</u> LF	_____
_____ 15"0 @ <u>40</u> LF	_____	_____ 42"0 @ <u>110</u> LF	_____
_____ 18"0 @ <u>45</u> LF	_____	_____ 48"0 @ <u>125</u> LF	_____
_____ 21"0 @ <u>50</u> LF	_____	_____ 54"0 @ <u>150</u> LF	_____
_____ 24"0 @ <u>55</u> LF	_____	_____ 60"0 @ <u>175</u> LF	_____
_____ 27"0 @ <u>60</u> LF	_____	_____ 66"0 @ <u>225</u> LF	_____
_____ 30"0 @ <u>65</u> LF	_____	_____ 72"0 @ <u>275</u> LF	_____
_____ 33"0 @ <u>70</u> LF	_____		

C. END WALLS

_____ 12"0 @ \$ <u>700</u> EA	_____	_____ 36"0 @ \$ <u>2,100</u> EA	_____
_____ 15"0 @ <u>850</u> EA	_____	_____ 42"0 @ <u>2,500</u> EA	_____
_____ 18"0 @ <u>900</u> EA	_____	_____ 48"0 @ <u>2,600</u> EA	_____
_____ 21"0 @ <u>1,100</u> EA	_____	_____ 54"0 @ <u>3,000</u> EA	_____
_____ 24"0 @ <u>1,400</u> EA	_____	_____ 60"0 @ <u>3,600</u> EA	_____
_____ 27"0 @ <u>1,600</u> EA	_____	_____ 66"0 @ <u>4,000</u> EA	_____
_____ 30"0 @ <u>1,750</u> EA	_____	_____ 72"0 @ <u>4,500</u> EA	_____
_____ 33"0 @ <u>1,900</u> EA	_____		

D. END SECTIONS (ES - 1)

_____ 12"0 @ \$ <u>600</u> EA	_____	_____ 27"0 @ \$ <u>950</u> EA	_____
_____ 15"0 @ <u>650</u> EA	_____	_____ 30"0 @ <u>1,050</u> EA	_____
_____ 18"0 @ <u>700</u> EA	_____	_____ 33"0 @ <u>1,150</u> EA	_____
_____ 21"0 @ <u>750</u> EA	_____	_____ 36"0 @ <u>1,300</u> EA	_____
_____ 24"0 @ <u>800</u> EA	_____		

E. CORRUGATED METAL PIPE

_____ 12"0 @ \$ <u>30</u> LF	_____	_____ 36"0 @ \$ <u>80</u> LF	_____
_____ 15"0 @ <u>35</u> LF	_____	_____ 42"0 @ <u>95</u> LF	_____
_____ 18"0 @ <u>45</u> LF	_____	_____ 48"0 @ <u>115</u> LF	_____
_____ 24"0 @ <u>55</u> LF	_____	_____ 54"0 @ <u>130</u> LF	_____
_____ 30"0 @ <u>65</u> LF	_____	_____ 60"0 @ <u>145</u> LF	_____

F. END SECTION (ES -2)

_____ 15"0 @ \$ <u>500</u> EA	_____	_____ 36"0 @ \$ <u>900</u> EA	_____
_____ 18"0 @ <u>550</u> EA	_____	_____ 42"0 @ \$ <u>1,100</u> EA	_____
_____ 24"0 @ <u>600</u> EA	_____	_____ 48"0 @ \$ <u>1,300</u> EA	_____
_____ 30"0 @ <u>650</u> EA	_____		

SUB-TOTAL \$ _____

SUB-TOTAL \$ _____
SUB-TOTAL FOR THIS PAGE \$ _____

G. AD N -12 (HDPE)

<u>QUANTITY</u>		<u>COST</u>
_____ 12"0	@ \$ 30 LF	_____
_____ 15"0	@ 35 LF	_____
_____ 18"0	@ 40 LF	_____
_____ 24"0	@ 50 LF	_____
_____ 30"0	@ 55 LF	_____
_____ 36"0	@ 60 LF	_____
_____ 42"0	@ 65 LF	_____
_____ 48"0	@ 80 LF	_____
_____ 60"0	@ 110 LF	_____
_____ End Section	@ EA	_____
SUB-TOTAL		\$ _____

H. STORMWATER MANAGEMENT/BMP FACILITIES (See note #5)

<u>QUANTITY</u>		<u>COST</u>
_____ Excavation	@ \$ 10.00 CY	_____
_____ Embankment (Fill Material)**	@ 25.00 CY	_____
STORM DRAINAGE PIPE (RCP, CMP, PVC, Riser)		
_____	@ LF	_____
_____	@ LF	_____
STORM DRAINAGE STRUCTURES (DI-7, MH-1, MH-2, etc.)		
_____ Gravel Filter System	@ EA	_____
_____ Drainage Blanket	@ EA	_____
_____ Cut-off Wall	@ EA	_____
_____ Concrete Cradle	@ LF	_____
_____ End Wall	@ EA	_____
_____ End Section	@ EA	_____
_____ Trash Rack (\$300 per 12"0 increments)	@ EA	_____
_____ Stormceptor	@ EA	_____
_____ Monitoring Well	@ EA	_____
_____ BMP Debris Protection Device	@ EA	_____
_____ Bioretention (itemized cost)	@ EA	_____
_____ Infiltration Trench (itemized cost)	@ EA	_____
_____ Sand Filter (itemized cost)	@ EA	_____
SUB-TOTAL		\$ _____

SUB-TOTAL FOR THIS PAGE _____

SPILLWAY LINING

<u>QUANTITY</u>		<u>COST</u>
_____	Seed, Fertilizer & Mulch \$200 Min.	@ \$ <u>0.70</u> SY
_____	Sod	@ <u>6.50</u> SY
_____	Hydraulic Cem. Conc. - 4" depth	@ <u>5.50</u> SF
_____	Bituminous Concrete -1" depth	@ <u>5.00</u> SY
_____	Rip-Rap	@ <u>6.50</u> SF
_____	Grouted Rip-Rap	@ <u>8.50</u> SF
_____	Erosion Control Stone (EC-1)	@ <u>100.00</u> TON
_____	#57 - Coarse Aggregate	@ <u>25.00</u> TON
_____	Porous Pavement	@ <u>20.00</u> SY
_____	4' High Chain Link Fence (#9 gauge or better, including braces, end posts and gate)	@ <u>15.00</u> LF
_____	6' High Chain Link Fence (#9 gauge or better, including braces, end posts and gate)	@ <u>20.00</u> LF
_____	SWM Sign (WATER RISES RAPIDLY) (Minimum 3 signs per facility)	@ <u>250</u> EA
_____	Access Road	@
SUB-TOTAL		\$ _____

I. MISCELLANEOUS DRAINAGE ITEMS

_____	Box Culvert	@\$ <u>800</u> CY of conc.
_____	Energy Dissipater	@ <u>2,000</u> EA
_____	Wing Walls	@ <u>800</u> CY of conc.
_____	Anchors	@ EA

DITCHES

_____	Roadside standard ditches (Seed, fertilize and mulch)	@ \$ <u>6.50</u> LF
_____	Sod Ditches	@ <u>8.50</u> LF
_____	Paved Ditches	@ <u>8.00</u> SF
_____	Filter Cloth Fabric & Gabion Stone	@ <u>5.00</u> SF
_____	Rip-rap	@ <u>6.50</u> SF
_____	Grouted Rip-rap	@ <u>8.50</u> SF
_____	Paved Flume	@ <u>13.00</u> SF
_____	Flush the Drainage System	@ <u>200/Hr</u> (Minimum 8 Hrs)

SUB-TOTAL _____

SUB-TOTAL FOR THIS PAGE \$ _____

3. CONSTRUCTION WITHIN THE RIGHT-OF-WAY AND/OR EASEMENTS

A. SITE WORK

<u>QUANTITY</u>		<u>COST</u>
_____	Clear & Grub @ \$10,000 AC	_____
_____	Excavation @ 10.00 CY	_____
_____	Embankment** @ 25.00 CY	_____
_____	Rock Excavation @ 40.00 CY	_____
_____	Slope Stabilization - Hydroseeding (3:1 or flatter) \$1,000 Min. @ \$0.70 SY	_____
_____	Slope Stab. - Jute Mesh, Matting, Blankets, etc. (Between 2:1 to 3:1) \$200 Min. @ 6.00 SY	_____
_____	Slope Stab. - Sod (Between 2:1 to 3:1) \$200 Min @ 7.00 SY	_____
_____	Steep Slopes (Grading and Stabilization with Jute Mesh, Netting, Blankets, etc.) @ 15.00 SY	_____
SUB-TOTAL		\$ _____

B. SUBGRADE, SUBBASE AND BASE COURSE ITEMS

<u>QUANTITY</u> (For streets dedicated for public use)		<u>COST</u>
<i>Identify quantities separately for each street (Use Page 5a)</i>		
_____	Subgrade preparation @ \$ 2.50 SY	_____
_____	Subbase & Base Course	_____
_____	Aggregate (21A/21B) @ 2.00 SY Per Inch Depth	_____
_____	Bituminous Concrete @ 5.00 SY Per Inch Depth	_____
_____	Gravel Shoulders @ 5.00 SY (4" Depth)	_____
Underdrains:		
_____	UD-1 @ 15.00 LF	_____
_____	UD-2 @ 17.00 LF	_____
_____	UD-3 @ 16.00 LF	_____
_____	UD-4 @ 13.00 LF	_____
_____	Soil Cem. Stabilization (4%) @ 15.00 SY (6" Depth)	_____
_____	Lime Stabilization (10%) @ 10.00 SY (6" Depth)	_____
_____	Cement Treated Aggregate @ 3.00 SY Per Inch Depth	_____
SUB-TOTAL		_____
SUB-TOTAL FOR THIS PAGE		\$ _____

C. SUBBASE AND BASE COURSE ITEMS

(For private streets, travel lanes, and parking areas)

<u>QUANTITY</u>		<u>COST</u>
_____	Subbase & Base Course	
_____	Aggregate (21A)	@ \$ <u>2.00</u> SY Per Inch Depth
_____	Bituminous Concrete	@ <u>5.00</u> SY Per Inch Depth
_____	Gravel Shoulders	@ <u>5.00</u> SY (4" Depth)
_____	Cement Stabilization (4%)	@ <u>15.00</u> SY (6" Depth)
_____	Lime Stabilization (10%)	@ <u>10.00</u> SY (6" Depth)
	SUB-TOTAL	\$ _____

D. ENTRANCES AND PIPE STEMS

_____	DE-1	@ \$ <u>1,800</u> EA	_____
_____	DE-2	@ <u>1,500</u> EA	_____
_____	DE-3	@ <u>1,500</u> EA	_____
_____	DE-4	@ <u>1,500</u> EA	_____
_____	PP-1 (1 lot)	@ <u>1,500</u> EA	_____
_____	PP-1 (2 - 5 lots)	@ <u>1,800</u> EA	_____
_____	PP-2 (1 lot)	@ <u>1,000</u> EA	_____
_____	PP-2 (2 - 5 lots)	@ <u>1,200</u> EA	_____
_____	CG-9D or equal	@ <u>5,000</u> EA	_____
	30' Width		
_____	CG-9D or equal	@ <u>6,500</u> EA	_____
	40' Width		
_____	CG-10A or equal	@ <u>4,000</u> EA	_____
	30' Width		
_____	CG-10A or equal	@ <u>5,000</u> EA	_____
	40' Width		
_____	CG-11	@ <u>2,500</u> EA	_____
	Concrete Entrance		
_____	Valley Gutter	@ <u>55</u> SY	_____
_____	Pipestem Driveway - 10' (1 lot)	@ <u>55</u> LF	_____
_____	Pipestem Driveway - 18' (2-5 lots)	@ <u>65</u> LF	_____
	SUB-TOTAL		_____
	SUB-TOTAL FOR THIS PAGE		_____

E. MISCELLANEOUS CONSTRUCTION ITEMS

<u>QUANTITY</u>			<u>COST</u>
_____	Sidewalk (4' Width)	@ \$ 20 LF	_____
_____	Header Curb (CG-2/CG-3)	@ 20 LF	_____
_____	Curb & Gutter	@ 25 LF	_____
_____	CG-12 (Exposed Aggregate)	@ 1,000 EA	_____
_____	Bicycle Trail/Walkway	@ 7.00 SF	_____
_____	Raised Concrete Median (MS-1A)	@ 65 SY	_____
_____	Trail (Wood Chip)	@ 18 SY	_____
_____	Trail (Stone Dust)	@ 18 SY	_____
_____	Retaining Walls		
_____	Timber	@ 25 SF	_____
_____	Crib	@ 35 SF	_____
_____	Reinforced Earth	@ 40 SF	_____
_____	Reinforced Concrete	@ 60 SF	_____
_____	Excavation for tiebacks in walls in cut areas	@ 10 CY	_____
_____	Anti-graffiti Paint (concrete retaining walls only)	@ 15 SF (Min. \$2,500)	_____
_____	Guardrail	@ 35 LF	_____
_____	GR-7 NCHRP 350	@ 2,500 EA	_____
_____	GR-9	@ 3,500 EA	_____
_____	Address Sign (Entrance to Pipestems)	@ 200 EA	_____
_____	Street Name Sign	@ 250 EA	_____
_____	Traffic Control Sign	@ 200 EA	_____
_____	HC Parking Space Sign	@ 200 EA	_____
_____	Roadside Delineators (ED-1)	@ 55 EA	_____
_____	Hand Rail (HR-1)	@ 60 LF	_____
_____	Pavement Marking (Paint)	@ 1.50 SF	_____
_____	Pavement Marking (Thermoplastic)	@ 5.00 SF	_____
_____	Traffic Barricade (TB-1)	@ 750 EA	_____
_____	Street Lighting	@ 3,500 EA	_____
_____	Utilities Relocation	(Min. \$40,000)	_____
		(or provide an estimate from utility company)	
_____	P.E. Certified "As-Built" Plans	Lump Sum (Min. \$10,000)	_____

SUB-TOTAL _____

SUB-TOTAL FOR THIS PAGE _____

4. SANITARY SEWER & WATER LINE CONSTRUCTION

<u>QUANTITY</u>		<u>COST</u>
_____	Fire Hydrant @ \$ <u>2,600</u> EA	_____
_____	Sanitary Sewer Manhole @ <u>5,000</u> EA	_____

WATER MAIN (Exclusive of Fire Hydrants)

_____	4" DIP @\$ <u>40</u> LF	_____
_____	6" DIP @ <u>55</u> LF	_____
_____	8" DIP @ <u>65</u> LF	_____
_____	12" DIP @ <u>80</u> LF	_____
_____	16" DIP @ <u>95</u> LF	_____
_____	18" DIP @ <u>110</u> LF	_____
_____	Fire Hydrant Assembly @ <u>2,600</u> EA	_____
_____	Meter Crock @ <u>1,100</u> EA	_____

SANITARY SEWER PIPE LINE (Exclusive of Manhole Structures)

_____	8" PVC @ \$ <u>65</u> LF	_____
_____	8" DIP @ <u>75</u> LF	_____
_____	10" PVC @ <u>80</u> LF	_____
_____	10" DIP @ <u>90</u> LF	_____
_____	12" PVC @ <u>140</u> LF	_____
_____	12" DIP @ <u>150</u> LF	_____
_____	15" DIP @ <u>185</u> LF	_____

For sizes larger than 15"0, add \$4.00 per inch increase in diameter.

SUB-TOTAL \$ _____

TOTAL CONSTRUCTION COST \$ _____

(Pages 1 thru 8)

5. MISCELLANEOUS COSTS

A. Administrative Cost - 15% of the total construction cost, not to exceed \$50,000 \$ _____

B. Inflation Cost - Compounded annually at 3.0% per year of the total Construction Cost _____

Total Performance Bond Amount \$ _____

6. LANDSCAPING ESCROW

A. DECIDUOUS TREES

<u>QUANTITY</u>		<u>COST</u>
_____ 4' - 5'	@ \$ <u>80</u> EA	_____
_____ 5' - 6'	@ <u>165</u> EA	_____
_____ 1" - 1½" or 1½ - 2"	@ <u>165</u> EA	_____
_____ 2" - 2½" or 2½ - 3"	@ <u>250</u> EA	_____
_____ 3" - 3½" or 3½ - 4"	@ <u>450</u> EA	_____

B. EVERGREEN TREES

_____ 4' - 5'	@ \$ <u>100</u> EA	_____
_____ 5' - 6'	@ <u>125</u> EA	_____
_____ 6' - 7'	@ <u>175</u> EA	_____
_____ 7' - 8'	@ <u>300</u> EA	_____
_____ 8' - 10'	@ <u>400</u> EA	_____

C. SHRUBS

_____ 18" - 24"	@ \$ <u>45</u> EA	_____
_____ 24" - 30"	@ <u>55</u> EA	_____

D. REFORESTATION

_____ # of acres	@ \$11,700 Ac	_____
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TOTAL COST \$ _____

7. SILTATION AND EROSION CONTROL ESCROWS

_____	Diversion Dike	@ \$ <u>6</u> LF	_____
_____	Cleaning out SWM Facilities, Silt Traps, and Silt Basins	@ 500/Hr. Lump Sum (Min. \$20,000)	_____
_____	Silt Fence	@ <u>7.50</u> LF	_____
_____	Super Silt Fence	@ <u>20</u> LF	_____
_____	Sod	@ <u>7.50</u> SY	_____
_____	Seed, Fertilizer & Mulch	@ <u>0.70</u> SY (\$200 Min.)	_____
_____	Steep Slopes (Grading and Stabilization with jute mesh, netting, blankets, etc.)	@ <u>15.00</u> SY	_____
_____	Coarse Aggregates (#1 or #57)	@ <u>25</u> Ton	_____
_____	Inlet Protection	@ <u>150</u> EA	_____
_____	Check Dam	@ <u>165</u> EA	_____
_____	Temp. Construction Entrance	@ <u>1,000</u> EA	_____
_____	Wash Rack	@ <u>2,000</u> EA	_____
_____	Temp. Sediment Trap	@ <u>500</u> EA (Drainage area up to 1 Ac)	_____
		@ <u>1,000</u> EA (Drainage area 1-2 Ac)	_____
		@ <u>2,000</u> EA (Drainage area 2-3 Ac)	_____
_____	Temporary Sediment Basin:	By itemized cost	_____
_____	Channel Diversion	By itemized cost	_____
_____	6' Chain-link Safety Fence	@ <u>20</u> LF	_____
_____	4' Plastic Orange Safety Fence	@ <u>2.50</u> LF	_____
_____	Yard utility refurbishment	@ <u>750</u> EA Single Family Lot	_____
_____		@	_____
_____		@	_____
_____		@	_____

		TOTAL COST \$	_____
		ADMINISTRATIVE COST (15% of Total Cost)	_____
		TOTAL SILTATION & EROSION CONTROL ESCROW AMOUNT	_____

Minimum acceptable amount for Siltation and Erosion Control Escrow is \$1,000.00

I hereby certify that the above is my best estimate of the quantities and current cost of bondable improvements, landscaping items, and Siltation & Erosion Control Escrow in this subdivision or site plan.

PREPARER'S SIGNATURE

TELEPHONE #

NAME (print)

COMPANY OR FIRM

NOTES:

1. The revised prices are underlined.
2. For items identified with ** the quantity for the embankment material is the net difference of total fill material needed and cut material available at the project site, if excavated or cut material is suitable for embankment.
3. The excavation and embankment costs include the necessary grading, spreading and/or compaction of soil in accordance with County and State Standards and Specifications.
4. For some of the items on page 3 of this form, the unit prices are not provided. Please refer to the appropriate section of this form to determine the applicable unit prices for those items, if necessary.
5. The unit cost for each of the items in the Unit Price Lists is the installation cost which includes factors such as excavation, bedding, backfilling, compaction, form work, etc.
6. Inflation has been calculated based on Northern Virginia Consumer Price Index of the Washington, D.C., area provided by the Bureau of Labor and Statistics.
7. Whoever certifies the site development plans must also certify the total cost of the bonded items, landscaping escrow and siltation and erosion control escrow and must sign on "Preparer's Signature" on page 10 of this form.

REPLACEMENT / REPAIR ITEMS

(To be used only for performance bond reduction / extension requests)

<u>QUANTITY</u>			<u>COST</u>
_____	Relocate utility poles	@ \$ 6,500 (min.)	_____
_____	Remove basketball pole(s)	@ 250 EA	_____
_____	from the right-of-way		_____
_____	Remove fence from the right-of-way	@ 5 LF	_____
_____	Remove trees, shrubs, landscaping	@ Lump Sum	_____
_____	from the right-of-way		_____
_____	Cut out and patch pavement and base	@ 15 SY	_____
_____	Replace curb and gutter	@ 25 LF	_____
_____	Replace sidewalk - 4' width	@ 20 LF	_____
_____	Re-establish ditch line	@ 5 LF (min. \$500)	_____
_____	Place additional stone on shoulders	@ 1.50 SY/in. depth	_____
_____	Relocate / reset mailboxes	@ 150 EA	_____
_____	Straighten out bent ends of	@ 100 EA Pipe	_____
_____	driveway entrance pipes		_____
_____	Remove and replace entrance pipe	@ 35 LF	_____
_____	Lower / raise entrance pipe	@ 300 EA	_____
_____	within the right-of-way		_____
_____	Clean out driveway entrance pipes	@ 100 EA Pipe (min. \$200)	_____
_____	Readjust manhole tops	@ 300 EA	_____
_____	Remove form material	@ 100 (min)	_____
_____	Install missing steps in storm	@ 100 EA	_____
_____	storm drainage structures		_____
_____	Parge storm drainage structures	@ 200 EA	_____
_____	Paint metal parts	@ 50 EA	_____
_____	Place additional rip-rap	@ 7 SF	_____
_____	Place additional grouted rip-rap	@ 9 SF	_____
_____	Place additional guard rail	@ 35 LF	_____
_____	not shown on the plans		_____
_____	Place additional paved ditch	@ 8 SF	_____
_____	not shown on the plans		_____
_____	Place additional signs within the	@ 200 EA	_____
_____	the right-of-way		_____
_____	Mow grass within the right-of-way	@ Lump Sum	_____
_____	and storm drainage easements		_____
_____	Remove construction debris from	@ Lump Sum	_____
_____	the project site		_____
_____	other items	@	_____
_____	other items	@	_____
SUB-TOTAL \$			_____