

**GRADING PLAN BOND ESTIMATE****PDS2017-LDGRMJ-30120**

W.O. 757-1019-600

May 11, 2017

ITEM	QUANTITY	UNIT	UNIT PRICE FOR BONDING	COST
<b>1. Earthwork</b>				
Cut/Fill				
(0-1,000)	1,000	CY	\$22.96	\$22,960
(1,000-20,000)	3,200	CY	\$12.52	\$40,064
(20,000+)	0	CY	\$7.46	\$0
Export/Import				
(0-1,000)	0	CY	\$29.21	\$0
(1,000-20,000)	0	CY	\$22.96	\$0
(20,000+)	0	CY	\$12.52	\$0
Clearing and Grubbing	105,676	SF	\$0.47	\$49,668
Erosion Control				
Sand/Gravel Bag	428	EA	\$3.13	\$1,340
Jute Mat (not as independent BMP)	0	SF	\$0.42	\$0
Straw Mat	0	SF	\$0.29	\$0
Straw Bales	0	EA	\$5.22	\$0
Silt Fence	2,094	LF	\$1.67	\$3,497
Fiber Rolls	1,092	LF	\$3.13	\$3,418
Wood Fiber Mat	0	SF	\$0.26	\$0
Coconut Fiber Mat	0	SF	\$0.42	\$0
Hydro-Seed	0	SF	\$0.34	\$0
Bonded Fiber Matrix	0	SF	\$0.09	\$0
Guar Binder	0	SF	\$0.03	\$0
Stabilized Construction Entrance	600	SF	\$1.25	\$750
Sub drain				
4" - 6"	0	LF	\$31.30	\$0
8"	0	LF	\$36.52	\$0
Subdrain Headwall	0	EA	\$2,608.52	\$0
<b>Subtotal</b>				\$121,696
<b>Plus 10% Contingency</b>				\$133,866
<b>30% Grading Subtotal for Cash/Bond</b>				\$40,160
<b>-OR- 5% Grading Subtotal for Cash only</b>				\$6,693

**2. Structural****DRAINAGE**

AC Spillway (D-22)	0	EA	\$333.89	\$0.00
Box Culvert	0	CY	\$1,147.75	\$0.00
Catch Basin				
36"x36" Catch Basin	4	EA	\$550.00	\$2,200.00
Type G (D-8)	0	EA	\$5,008.35	\$0.00
Type F (D-7)	0	EA	\$4,695.33	\$0.00

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Type I (D-29)	0	EA	\$5,008.35	\$0.00
Bio-swale	0	EA	\$5.22	\$0.00
Bioretention Basin	2,999	SF	\$5.22	\$15,656.29
Cleanouts (Storm Drain)				
Type A (D-9)	0	EA	\$4,695.33	\$0.00
Type B (D-10)	0	EA	\$5,217.03	\$0.00
Concrete	0	CY	\$678.21	\$0.00
Concrete Energy Dissipater	0	EA	\$8,555.93	\$0.00
Concrete Lug	0	EA	\$1,147.75	\$0.00
Concrete Pipe Collar	0	EA	\$2,608.52	\$0.00
Culvert, Pipe Reinforced Concrete				
(RCP)				
12 " or less	0	LF	\$57.39	\$0.00
18"	0	LF	\$99.13	\$0.00
24"	0	LF	\$114.77	\$0.00
30"	0	LF	\$125.21	\$0.00
36"	0	LF	\$151.30	\$0.00
42"	0	LF	\$172.17	\$0.00
48"	0	LF	\$182.60	\$0.00
54"	0	LF	\$208.68	\$0.00
60"	0	LF	\$266.07	\$0.00
72"	0	LF	\$302.59	\$0.00
Culvert, (PVC Pipe)				
4" - 6"	0	LF	\$20.87	\$0.00
8" - 12"	277	LF	\$36.52	\$10,116.04
18"	0	LF	\$67.83	\$0.00
24"	0	LF	\$83.47	\$0.00
30"	0	LF	\$93.91	\$0.00
36"	0	LF	\$146.08	\$0.00
42"	0	LF	\$166.94	\$0.00
Curb Inlet				
Type A (D-1)	0	EA	\$5,736.64	\$0.00
Type B (D-2)	0	EA	\$5,736.64	\$0.00
Type C (D-3)	0	EA	\$6,310.52	\$0.00
Curb Outlet, Type A (D-25)	0	EA	\$2,608.52	\$0.00
Curb Outlet, Sidewalk Underdrain	0	EA	\$521.70	\$0.00
Pipe, D-27				
Curtain Wall				
D-38	0	EA	\$626.04	\$0.00
D-72	0	EA	\$678.21	\$0.00
Drainage Channel, P.C.C (D-70 & D-71)	0	LF	\$1,069.50	\$0.00
Drainage Ditch	0	LF	\$26.09	\$0.00
HEC-2 Study and FEMA Revision	0	LS	\$31,302.18	\$0.00
Headwalls				
Wing Headwall (D-30)	2	EA	\$3,912.77	\$7,825.54
Wing Headwall (D-36)	1	EA	\$5,634.39	\$5,634.39

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Inlet Apron, D-39	0	EA	\$2,034.64	\$0.00
Pipe Collar, D-62	0	EA	\$2,608.52	\$0.00
Rip Rap (Energy Dissipator), D-40				
(.25 Ton)	9	CY	\$156.51	\$1,408.59
(.50 Ton)	0	CY	\$166.94	\$0.00
(1.0 Ton)	0	CY	\$177.38	\$0.00
(2.0 Ton)	0	CY	\$187.81	\$0.00
(4.0 Ton)	0	CY	\$208.68	\$0.00

**MISCELLANEOUS**

Bridge (Vehicular)	0	SF	\$286.94	\$0.00
Bridge (Pedestrian)	0	SF	\$260.85	\$0.00
Crash Cushion (G.R.E.A.T.)	0	EA	\$38,397.34	\$0.00
Excavation For Structures	0	CY	\$32.35	\$0.00
Fence (M-6), Chain Link,				
4'	0	LF	\$13.04	\$0.00
5'	0	LF	\$14.61	\$0.00
6'	0	LF	\$16.69	\$0.00
Guard Rail, Metal Beam (M-30-38)	0	LF	\$31.30	\$0.00
Guard Post	0	EA	\$250.42	\$0.00
Guard Barricade	0	EA	\$469.53	\$0.00
Median Barrier	0	EA	\$57.39	\$0.00
Saw Cut	0	LF	\$4.18	\$0.00
Shoring				
5' - 10' Deep	0	LF	\$11.68	\$0.00
11' - 15' Deep	0	LF	\$18.15	\$0.00
16' - 20' Deep	0	LF	\$26.09	\$0.00
Survey Monument, M-10	0	EA	\$834.72	\$0.00
Retaining Walls				
Masonry	0	SF	\$46.96	\$0.00
Cast-In-Place	0	CY	\$704.30	\$0.00
Gravity	0	SF	\$31.30	\$0.00
Crib	0	SF	\$41.74	\$0.00

**LANDSCAPING & IRRIGATION****Planting**

Shrubs				
1 Gallon	0	EA	\$6.26	\$0.00
5 Gallon	0	EA	\$20.87	\$0.00
Slope Planting (Ground Cover)	0	SF	\$0.50	\$0.00
Slope Planting (Ground Cover + Trees and Shrubs)	0	SF	\$0.82	\$0.00

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Slope Planting (Hydro-Seeding)	0	SF	\$0.13	\$0.00
Tree				
5 Gallon	0	EA	\$15.66	\$0.00
15 Gallon	0	EA	\$88.69	\$0.00
24" Box	0	EA	\$260.85	\$0.00
36" Box	0	EA	\$365.19	\$0.00
48" Box	0	EA	\$678.21	\$0.00
Tree Grate W/2 Frame	0	EA	\$500.83	\$0.00
Tree Maintenance	0	Tree/Year	\$208.68	\$0.00
<b><u>Irrigation</u></b>				
Backflow Prevention Assembly W/ Enclosure	0	EA	\$3,286.73	\$0.00
Slope Irrigation	0	SF	\$0.62	\$0.00

**Subtotal** \$42,840.85  
**Plus 10% Contingency** \$47,124.94

**FOR CASH/BOND**

<b>TOTAL AMOUNT OF SECURITY</b>	\$87,285	Say	\$87,300.00
<b>CASH DEPOSIT</b>	8,114	say	\$8,100.00
(\$1,000 MINIMUM, \$10,000 MAXIMUM)			
<b>GRADING BOND</b>	79,200	Say	\$79,200.00
<b>(Grading + Structural) Inspection Deposit</b>	7,430		\$7,400.00
Collect (grading + Structural) inspection deposit <b>ONLY</b> if Minor grading plan			

**FOR CASH ONLY**

<b>TOTAL AMOUNT OF SECURITY</b>	\$53,818	Say	\$53,800.00
<b>CASH DEPOSIT</b>	\$53,800.00	use	\$30,000.00
(\$5,000 MINIMUM, \$30,000 MAXIMUM)			
<b>(Grading + Structural) Inspection Deposit</b>	7429.726075		\$7,400.00
Collect (grading + Structural) inspection deposit <b>ONLY</b> if Minor grading plan			