

2019 Financial Assurance Estimate Form
(with pre-plat construction)

Updated: 7/16/2019

PROJECT INFORMATION		
North Bay at Lake Woodmoor	4/10/2020	SF-16-021
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)						
* Earthwork						
less than 1,000; \$5,300 min		CY	\$ 8.00	= \$ -		\$ -
1,000-5,000; \$8,000 min	4,270	CY	\$ 6.00	= \$ 25,620.00		\$ 25,620.00
5,001-20,000; \$30,000 min		CY	\$ 5.00	= \$ -		\$ -
20,001-50,000; \$100,000 min		CY	\$ 3.50	= \$ -		\$ -
50,001-200,000; \$175,000 min		CY	\$ 2.50	= \$ -		\$ -
greater than 200,000; \$500,000 min		CY	\$ 2.00	= \$ -		\$ -
* Permanent Seeding (inc. noxious weed mgmt.)	0.87	AC	\$ 800.00	= \$ 696.00		\$ 696.00
* Mulching	0.87	AC	\$ 750.00	= \$ 652.50		\$ 652.50
* Permanent Erosion Control Blanket	3,300	SY	\$ 6.00	= \$ 19,800.00		\$ 19,800.00
* Permanent Pond/BMP Construction		CY	\$ 20.00	= \$ -		\$ -
* Permanent Pond/BMP (Spillway)		EA		= \$ -		\$ -
* Permanent Pond/BMP (Outlet Structure)		EA		= \$ -		\$ -
* 18" Reinforced Concrete Pipe	104	LF	\$ 65.00	= \$ 6,760.00		\$ 6,760.00
* Flared End Section (FES) HCP Size = 18" (unit cost = 6x pipe unit cost)	2	EA	\$ 390.00	= \$ 780.00		\$ 780.00
* 14"x23" Horiz. Elliptical Reinforced Concrete Pipe	11	LF	\$ 79.00	= \$ 869.00		\$ 869.00
* End Treatment - Cutoff Wall	2	EA	\$ 880.00	= \$ 1,760.00		\$ 1,760.00
* Water Quality Basin Outlet Structure	2	EA	\$ 5,000.00	= \$ 10,000.00		\$ 10,000.00
* Stormceptor	1	EA	\$ 14,000.00	= \$ 14,000.00		\$ 14,000.00
* Sand Filter Basin w/Underdrain System	2	EA	\$ 7,000.00	= \$ 14,000.00		\$ 14,000.00
* Gravel Maintenance Access Trail	445	SY	\$ 20.00	= \$ 8,900.00		\$ 8,900.00
* Storm Sewer Manhole, Slab Base	1	EA	\$ 6,395.00	= \$ 6,395.00		\$ 6,395.00
* Rip Rap, d50 size from 6" to 24"	160	CY	\$ 100.00	= \$ 16,000.00		\$ 16,000.00
Safety (Construction) Fence	1,864	LF	\$ 3.00	= \$ 5,592.00		\$ 5,592.00
Temporary Erosion Control Blanket		SY	\$ 3.00	= \$ -		\$ -
Vehicle Tracking Control	2	EA	\$ 2,370.00	= \$ 4,740.00		\$ 4,740.00
Silt Fence		LF	\$ 2.50	= \$ -		\$ -
Temporary Seeding	2.86	AC	\$ 628.00	= \$ 1,796.08		\$ 1,796.08
Temporary Mulch	2.86	AC	\$ 750.00	= \$ 2,145.00		\$ 2,145.00
Erosion Bales		EA	\$ 25.00	= \$ -		\$ -
Erosion Logs/Straw Waddle	2,822	LF	\$ 5.00	= \$ 14,110.00		\$ 14,110.00
Rock Check Dams		EA	\$ 500.00	= \$ -		\$ -
Inlet Protection	6	EA	\$ 167.00	= \$ 1,002.00		\$ 1,002.00
Sediment Basin	2	EA	\$ 1,762.00	= \$ 3,524.00		\$ 3,524.00
Concrete Washout Basin	2	EA	\$ 900.00	= \$ 1,800.00		\$ 1,800.00
[insert items not listed but part of construction plans]				= \$ -		\$ -
MAINTENANCE (35% of Construction BMPs)				= \$ 10,190.98		\$ 10,190.98
Section 1 Subtotal				= \$ 171,132.56		\$ 171,132.56

* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)

SECTION 2 - PUBLIC IMPROVEMENTS *

ROADWAY IMPROVEMENTS						
Construction Traffic Control		LS		= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 28.00	= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)		CY	\$ 50.00	= \$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 14.00	= \$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 19.00	= \$ -		\$ -
Asphalt Pavement (6" thick)		SY	\$ 29.00	= \$ -		\$ -
Asphalt Pavement (147 lbs/cf) ___" thick		Tons	\$ 88.00	= \$ -		\$ -
Raised Median, Paved		SF	\$ 8.00	= \$ -		\$ -
Regulatory Sign/Advisory Sign	3	EA	\$ 300.00	= \$ 900.00		\$ 900.00
Guide/Street Name Sign	3	EA	\$ 100.00	= \$ 300.00		\$ 300.00
Epoxy Pavement Marking		SF	\$ 13.00	= \$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 23.00	= \$ -		\$ -
Barricade - Type 3		EA	\$ 200.00	= \$ -		\$ -
Delineator - Type I		EA	\$ 24.00	= \$ -		\$ -
Curb and Gutter, Type A (6" Vertical)		LF	\$ 30.00	= \$ -		\$ -
Curb and Gutter, Type B (Median)		LF	\$ 30.00	= \$ -		\$ -
Curb and Gutter, Type C (Ramp)		LF	\$ 30.00	= \$ -		\$ -
4" Sidewalk (common areas only)		SY	\$ 48.00	= \$ -		\$ -
5" Sidewalk		SY	\$ 60.00	= \$ -		\$ -
6" Sidewalk		SY	\$ 72.00	= \$ -		\$ -
8" Sidewalk		SY	\$ 96.00	= \$ -		\$ -
Pedestrian Ramp		EA	\$ 1,150.00	= \$ -		\$ -
Cross Pan, local (8" thick, 6' wide to include return)		LF	\$ 61.00	= \$ -		\$ -
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 92.00	= \$ -		\$ -
Curb Chase		EA	\$ 1,480.00	= \$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 49.00	= \$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 72.00	= \$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,098.00	= \$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 3,767.00	= \$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 78.00	= \$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 80.00	= \$ -		\$ -
Electrical Conduit, Size =		LF	\$ 16.00	= \$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 425,000	= \$ -		\$ -
[insert items not listed but part of construction plans]				= \$ -		\$ -

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Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
STORM DRAIN IMPROVEMENTS						
Concrete Box Culvert (M Standard), Size (12'W x 4'H)		LF	=	\$ -		\$ -
18" Reinforced Concrete Pipe		LF	\$ 65.00	= \$ -		\$ -
24" Reinforced Concrete Pipe		LF	\$ 78.00	= \$ -		\$ -
30" Reinforced Concrete Pipe		LF	\$ 97.00	= \$ -		\$ -
36" Reinforced Concrete Pipe		LF	\$ 120.00	= \$ -		\$ -
42" Reinforced Concrete Pipe		LF	\$ 160.00	= \$ -		\$ -
48" Reinforced Concrete Pipe		LF	\$ 195.00	= \$ -		\$ -
54" Reinforced Concrete Pipe		LF	\$ 245.00	= \$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 288.00	= \$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 332.00	= \$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 380.00	= \$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 84.00	= \$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 96.00	= \$ -		\$ -
30" Corrugated Steel Pipe		LF	\$ 122.00	= \$ -		\$ -
36" Corrugated Steel Pipe		LF	\$ 147.00	= \$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 168.00	= \$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 178.00	= \$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 260.00	= \$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 280.00	= \$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 340.00	= \$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 400.00	= \$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 460.00	= \$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 550.00	= \$ -		\$ -
Flared End Section (FES) RCP Size = <i>(unit cost = 6x pipe unit cost)</i>		EA	=	\$ -		\$ -
Flared End Section (FES) CSP Size = <i>(unit cost = 6x pipe unit cost)</i>		EA	=	\$ -		\$ -
End Treatment- Headwall		EA	=	\$ -		\$ -
End Treatment- Wingwall		EA	=	\$ -		\$ -
End Treatment - Cutoff Wall		EA	=	\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 5,542.00	= \$ -		\$ -
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,188.00	= \$ -		\$ -
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'		EA	\$ 8,345.00	= \$ -		\$ -
Curb Inlet (Type R) L=10', Depth < 5'		EA	\$ 7,627.00	= \$ -		\$ -
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'		EA	\$ 7,861.00	= \$ -		\$ -
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA	\$ 9,841.00	= \$ -		\$ -
Curb Inlet (Type R) L=15', Depth < 5'		EA	\$ 9,918.00	= \$ -		\$ -
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'		EA	\$ 10,633.00	= \$ -		\$ -
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'		EA	\$ 11,627.00	= \$ -		\$ -
Curb Inlet (Type R) L=20', Depth < 5'		EA	\$ 10,570.00	= \$ -		\$ -
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'		EA	\$ 11,667.00	= \$ -		\$ -
Grated Inlet (Type C), Depth < 5'		EA	\$ 4,640.00	= \$ -		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,731.00	= \$ -		\$ -
Storm Sewer Manhole, Box Base		EA	\$ 11,627.00	= \$ -		\$ -
Storm Sewer Manhole, Slab Base		EA	\$ 6,395.00	= \$ -		\$ -
Geotextile (Erosion Control)		SY	\$ 6.00	= \$ -		\$ -
Rip Rap, d50 size from 6" to 24"		Tons	\$ 80.00	= \$ -		\$ -
Rip Rap, Grouted		Tons	\$ 95.00	= \$ -		\$ -
Drainage Channel Construction, Size (W x H)		LF	=	\$ -		\$ -
Drainage Channel Lining, Concrete		CY	\$ 570.00	= \$ -		\$ -
Drainage Channel Lining, Rip Rap		CY	\$ 112.00	= \$ -		\$ -
Drainage Channel Lining, Grass		AC	\$ 1,469.00	= \$ -		\$ -
Drainage Channel Lining, Other Stabilization <i>[insert items not listed but part of construction plans]</i>			=	\$ -		\$ -
				Section 2 Subtotal	= \$ 1,200.00	\$ 1,200.00

* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)

PROJECT INFORMATION						
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Project Name	Date	PCD File No.				
Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**						
ROADWAY IMPROVEMENTS						
5" Sidewalk (common areas only)	1,522	SY	\$ 60.00	= \$	91,320.00	\$ 91,320.00
Curb and Gutter, Type C (Ramp)	2,105	LF	\$ 30.00	= \$	63,150.00	\$ 63,150.00
Pedestrian Ramp	6	EA	\$ 1,150.00	= \$	6,900.00	\$ 6,900.00
Asphalt Pavement (147 lbs/cf) .5" thick	551.2	Tons	\$ 88.00	= \$	48,505.60	\$ 48,505.60
Aggregate Base Course (135 lbs/cf)	1,102.4	Tons	\$ 28.00	= \$	30,867.48	\$ 30,867.48
Cross Pan, local (8" thick, 6' wide to include return)	22	LF	\$ 61.00	= \$	1,342.00	\$ 1,342.00
Gravel Trail (Deer Creek Road) .4" thick	1,712	SF	\$ 1.50	= \$	2,568.00	\$ 2,568.00
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)						
Concrete Box Culvert (M Standard), Size (12"W x 4'H)	114	LF	\$ 1,230.00	= \$	140,220.00	\$ 140,220.00
18" Reinforced Concrete Pipe	565	LF	\$ 65.00	= \$	36,725.00	\$ 36,725.00
30" Reinforced Concrete Pipe	74	LF	\$ 97.00	= \$	7,178.00	\$ 7,178.00
36" Reinforced Concrete Pipe	379	LF	\$ 120.00	= \$	45,480.00	\$ 45,480.00
Flared End Section (FES) RCP Size = 36" (unit cost = 6x pipe unit cost)	1	EA	\$ 720.00	= \$	720.00	\$ 720.00
Flared End Section (FES) RCP Size = 18" (unit cost = 6x pipe unit cost)	2	EA	\$ 390.00	= \$	780.00	\$ 780.00
24" Corrugated Metal Pipe (CMP) 45° Bend	1	EA	\$ 800.00	= \$	800.00	\$ 800.00
18" Reinforced Concrete Pipe (RCP) Prefab. Bend	2	EA	\$ 1,000.00	= \$	2,000.00	\$ 2,000.00
End Treatment - Cutoff Wall	3	EA	\$ 880.00	= \$	2,640.00	\$ 2,640.00
Concrete Collar (24" CMP)	1	EA	\$ 500.00	= \$	500.00	\$ 500.00
Check Structure (LFDW Creek)	3	EA	\$ 11,000.00	= \$	33,000.00	\$ 33,000.00
Curb Inlet (Type R) L = 10', Depth < 5'	1	EA	\$ 7,627.00	= \$	7,627.00	\$ 7,627.00
Curb Inlet (Type R) L = 10', 5' ≤ Depth < 10'	1	EA	\$ 7,861.00	= \$	7,861.00	\$ 7,861.00
Curb Inlet (Type R) L = 15', Depth < 5'	1	EA	\$ 9,918.00	= \$	9,918.00	\$ 9,918.00
Grated Inlet (Type D), Depth < 5'	3	EA	\$ 5,731.00	= \$	17,193.00	\$ 17,193.00
Storm Sewer Manhole, Slab Base	7	EA	\$ 6,395.00	= \$	44,765.00	\$ 44,765.00
Rip Rap, d50 size from 6" to 24"	1,010	CY	\$ 100.00	= \$	101,000.00	\$ 101,000.00
WATER SYSTEM IMPROVEMENTS						
Water Main Pipe (PVC), Size 8"		LF	\$ 64.00	= \$	-	\$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	= \$	-	\$ -
Water Main Pipe (Ductile Iron), Size 6"	33	LF	\$ 65.00	= \$	2,145.00	\$ 2,145.00
Gate Valves, 8"		EA	\$ 1,858.00	= \$	-	\$ -
Fire Hydrant Assembly, w/ all valves	3	EA	\$ 6,597.00	= \$	19,791.00	\$ 19,791.00
Water Service Line Installation, inc. tap and valves	28	EA	\$ 1,324.00	= \$	37,072.00	\$ 37,072.00
Fire Cistern Installation, complete		EA		= \$	-	\$ -
Water Main Pipe (PVC), Size 6"	1,327	LF	\$ 72.00	= \$	95,544.00	\$ 95,544.00
Gate Valves, 6"	14	EA	\$ 1,852.00	= \$	25,928.00	\$ 25,928.00
Raw Water Vault (Reuse Existing Piping)	1	EA	\$ 10,000.00	= \$	10,000.00	\$ 10,000.00
Raw Water Pipe (PVC), Size 12"	333	LF	\$ 128.00	= \$	42,624.00	\$ 42,624.00
Raw Water Manhole, Depth < 15 feet (insert items not listed but part of construction plans)	1	EA	\$ 4,000.00	= \$	4,000.00	\$ 4,000.00
				= \$	-	\$ -
SANITARY SEWER IMPROVEMENTS						
Sewer Main Pipe (PVC), Size 8"	652	LF	\$ 64.00	= \$	41,728.00	\$ 41,728.00
Sewer Main Pipe (Ductile Iron), Size 8"	48	LF	\$ 75.00	= \$	3,600.00	\$ 3,600.00
Sanitary Sewer Manhole, Depth < 15 feet	13	EA	\$ 4,386.00	= \$	57,018.00	\$ 57,018.00
Sanitary Service Line Installation, complete	28	EA	\$ 1,402.00	= \$	39,256.00	\$ 39,256.00
Sanitary Sewer Lift Station, complete		EA	\$ 1,516.00	= \$	-	\$ -
Sewer Main Pipe (PVC), Size 12" (insert items not listed but part of construction plans)	350	LF	\$ 122.00	= \$	42,700.00	\$ 42,700.00
				= \$	-	\$ -
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)						
		EA		= \$	-	\$ -
		EA		= \$	-	\$ -
		EA		= \$	-	\$ -
		EA		= \$	-	\$ -
		EA		= \$	-	\$ -
		EA		= \$	-	\$ -
Section 3 Subtotal				= \$	1,124,466.08	\$ 1,124,466.08
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)	LS	\$ 5,000.00	= \$	5,000.00	\$ 5,000.00	
POND/BMP CERTIFICATION (inc. elevations and volume calculations)	LS	\$ 4,000.00	= \$	4,000.00	\$ 4,000.00	
Total Construction Financial Assurance					\$ 1,305,798.64	
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)					\$ 1,305,798.64	
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
Total Defect Warranty Financial Assurance					\$ 25,486.50	
(20% of all items identified as (*). To be collateralized at time of preliminary acceptance)						

Approvals

I hereby certify that this is an accurate and complete estimate of costs for the work as shown on the Grading and Erosion Control Plan and Construction Drawings associated with the Project.

 Engineer (P.E. Seal Required)

 Approved by Owner / Applicant

 Approved by El Paso County Engineer / ECM Administrator

 Date

 Date