

# 2015 Financial Assurance Estimate Form (with pre-plat construction)

## Project Information

FLYING HORSE NORTH FILING NO. 1

7/30/2018

PCD File No. SF-18-001

Project Name

Date

### Section 1 - Grading and Erosion Control BMPs

SEE FLYING HORSE NORTH GOLF COURSE  
EARLY GRADING AND E.C. PLAN  
APPROVED OCTOBER 2016

	Quantity	Units	Price	% Complete	Remaining
Earthwork*	20,000.00	CY	@ \$ 5		\$ - *
Permanent Seeding* (inc. noxious weed mgmnt.)	17.00	AC	@ \$ 582		\$ - *
Mulching*	17.00	AC	@ \$ 507		\$ - *
Permanent Erosion Control Blanket*		SY	@ \$ 6		\$ - *
Temporary Erosion Control Blanket		SY	@ \$ 3		\$ -
Vehicle Tracking Control	1.00	EA	@ \$ 1,625		\$ -
Safety Fence		LF	@ \$ 3		\$ -
Silt Fence	3,400.00	LF	@ \$ 4		\$ -
Temporary Seeding	3.00	AC	@ \$ 485		\$ -
Temporary Mulch	3.00	AC	@ \$ 507		\$ -
Erosion Bales	18.00	EA	@ \$ 21		\$ -
Erosion Logs		LF	@ \$ 6		\$ -
Rock Ditch Checks		EA	@ \$		\$ -
Inlet Protection	7.00	EA	@ \$ 153		\$ -
Sediment Basin	5.00	EA	@ \$ 1,625		\$ -
Concrete Washout Basin	1.00	EA	@ \$ 776		\$ -
		@ \$			\$ -

\* Subject to defect warranty financial assurance. DO NOT ENTER MORE TO BE RETAINED UP TO

Section 1 Subtotal

\$

\$

### Section 2 -

- Ro

	Quantity	Units	Price	% Complete	Remaining
Construction	1.00	LS	@ \$ 2,000		\$ 2,000.00 *
Aggregate Base Course	26,000.00	Tons	@ \$ 18		\$ 468,000.00 *
Asphalt Pavement (Local roads)	23,400.00	Tons	@ \$ 65		\$ 1,521,000.00 *
Aggregate Base Course (Locals roads)	12,100.00	Tons	@ \$ 18		\$ 217,800.00 *
Asphalt Pavement (Local roads)	10,680.00	Tons	@ \$ 65		\$ 694,200.00 *
Raised Median, Paved		SF	@ \$ 7		\$ - *
Electrical Conduit, Size =		LF	@ \$ 14		\$ - *
Traffic Signal, complete intersection		EA	@ \$ 250,000		\$ - *
Regulatory Sign	20.00	EA	@ \$ 100		\$ 2,000.00 *
Advisory Sign	24.00	EA	@ \$ 100		\$ 2,400.00 *
Guide/Street Name Sign	13.00	EA	@ \$ 300		\$ 3,900.00 *
Epoxy Pavement Marking (Stagecoach/Old Stagecoach)	11,400.00	SF	@ \$ 12		\$ 136,800.00 *
Thermoplastic Pavement Marking (Round-about markings)	450.00	SF	@ \$ 22		\$ 9,900.00 *
Barricade - Type 3	5.00	EA	@ \$ 115		\$ 575.00 *
Delineator (Type I)		EA	@ \$ 21		\$ - *
Curb and Gutter, Type A (across JD Pond embankment)	900.00	LF	@ \$ 21		\$ 18,900.00 *
Curb and Gutter, Type E Modified (3' mountable island)	1,300.00	LF	@ \$ 13		\$ 16,900.00 *
Curb and Gutter, Type B (Round-about entry medians)	2,560.00	LF	@ \$ 13		\$ 33,280.00 *
Pedestrian Ramp		SY	@ \$ 108		\$ - *
Cross Pan		SY	@ \$ 53		\$ - *
Curb Chase		EA	@ \$ 1,300		\$ - *
Guardrail Type 3 (W-Beam - Across JD Pond Embankment)	810.00	LF	@ \$ 18		\$ 14,580.00 *
Guardrail Type 7 (Concrete)		LF	@ \$ 67		\$ - *

Based on the updated signage plans, there are more than 57 regulatory, advisory and street name signs being installed.

Guardrail End Anchorage		EA	@	\$	\$1,978	=	\$	\$	-	*
Guardrail Impact Attenuator		EA	@	\$	\$3,564	=	\$	\$	-	*
Sound Barrier Fence		LF	@	\$	\$100	=	\$	\$	-	*
Concrete Sidewalk (5" thickness)		SY	@	\$	\$58	=	\$	\$	-	*

**- Storm Drain Improvements**

Concrete Box Culvert (M Standard), Size Dual ( 10 x 4 )		LF	@	\$		=	\$	\$	-	*
Reinforced Concrete Pipe (RCP)	Size	LF	@	\$		=	\$	\$	-	*
18" Reinforced Concrete Pipe	215.00	LF	@	\$	\$69	=	\$	\$	14,835.00	*
24" Reinforced Concrete Pipe	1,070.00	LF	@	\$	\$84	=	\$	\$	89,880.00	*
30" Reinforced Concrete Pipe	415.00	LF	@	\$	\$94	=	\$	\$	39,010.00	*
36" Reinforced Concrete Pipe	460.00	LF	@	\$	\$124	=	\$	\$	57,040.00	*
42" Reinforced Concrete Pipe	610.00	LF	@	\$	\$134	=	\$	\$	81,740.00	*
48" Reinforced Concrete Pipe		LF	@	\$	\$178	=	\$	\$	-	*
54" Reinforced Concrete Pipe		LF	@	\$	\$182	=	\$	\$	-	*
60" Reinforced Concrete Pipe	500.00	LF	@	\$	\$216	=	\$	\$	108,000.00	*
66" Reinforced Concrete Pipe		LF	@	\$	\$263	=	\$	\$	-	*
72" Reinforced Concrete Pipe		LF	@	\$	\$283	=	\$	\$	-	*
Corrugated Steel Pipe (CSP)	Size	LF	@	\$		=	\$	\$	-	*
18" Corrugated Steel Pipe		LF	@	\$	\$66	=	\$	\$	-	*
24" Corrugated Steel Pipe		LF	@	\$	\$96	=	\$	\$	-	*
30" Corrugated Steel Pipe		LF	@	\$	\$101	=	\$	\$	-	*
36" Corrugated Steel Pipe		LF	@	\$	\$136	=	\$	\$	-	*
42" Corrugated Steel Pipe		LF	@	\$	\$147	=	\$	\$	-	*
48" Corrugated Steel Pipe		LF	@	\$	\$169	=	\$	\$	-	*
54" Corrugated Steel Pipe		LF	@	\$	\$193	=	\$	\$	-	*
60" Corrugated Steel Pipe		LF	@	\$	\$227	=	\$	\$	-	*
66" Corrugated Steel Pipe		LF	@	\$	\$278	=	\$	\$	-	*
72" Corrugated Steel Pipe		LF	@	\$	\$330	=	\$	\$	-	*
78" Corrugated Steel Pipe		LF	@	\$	\$381	=	\$	\$	-	*
84" Corrugated Steel Pipe		LF	@	\$	\$432	=	\$	\$	-	*
Flared End Section (FES) 18"	+	EA	@	\$	414	=	\$	\$	1,656.00	*
Flared End Section (FES) 24"		EA	@	\$	504	=	\$	\$	7,056.00	*
Flared End Section (FES) 30"		EA	@	\$	564	=	\$	\$	4,512.00	*
Flared End Section (FES) 36"		EA	@	\$	744	=	\$	\$	3,720.00	*
Flared End Section (FES) 48"		EA	@	\$	1,068	=	\$	\$	2,136.00	*
Flared End Section (FES) CSP	+	EA	@	\$		=	\$	\$	-	*
End Treatment- Headwall (Stagecoach Rd.)		EA	@	\$	4,000	=	\$	\$	28,000.00	*
End Treatment- Wingwall (Stagecoach Rd.)		EA	@	\$	10,000	=	\$	\$	60,000.00	*
End Treatment - Cutoff Wall		EA	@	\$	3,000	=	\$	\$	15,000.00	*
Curb Inlet (Type R) L=5', Depth < 5 feet		EA	@	\$	\$3,791	=	\$	\$	-	*
Curb Inlet (Type R) L=4', 5'-10' Depth		EA	@	\$	\$5,300	=	\$	\$	-	*
Curb Inlet (Type R) L =6' , 5'-10' Depth		EA	@	\$	\$6,000	=	\$	\$	-	*
Curb Inlet (Type R) L =8' , 5'-10' Depth		EA	@	\$	\$7,000	=	\$	\$	-	*
Curb Inlet (Type R) L =10' , 5'-10' Depth		EA	@	\$	\$7,500	=	\$	\$	-	*
Curb Inlet (Type R) L =12' , 5'-10' Depth		EA	@	\$	\$8,300	=	\$	\$	-	*
Curb Inlet (Type R) L =15' , Depth < 5 feet		EA	@	\$	\$7,923	=	\$	\$	-	*
Curb Inlet (Type R) L =15' , 5'-10' Depth		EA	@	\$	\$8,000	=	\$	\$	-	*
Curb Inlet (Type R) L =15' , 10'-15' Depth		EA	@	\$	\$8,800	=	\$	\$	-	*
Curb Inlet (Type R) L =20' , Depth < 5 feet		EA	@	\$	\$8,000	=	\$	\$	-	*
Curb Inlet (Type R) L =20' , 5'-10' Depth		EA	@	\$	\$8,830	=	\$	\$	-	*
Curb Inlet (Type R) L = _____ , _____' Depth		EA	@	\$		=	\$	\$	-	*
Curb Inlet (Type R) L = _____ , _____' Depth		EA	@	\$		=	\$	\$	-	*
Grated Inlet (Type C), < 5' deep		EA	@	\$	\$3,270	=	\$	\$	-	*
Grated Inlet (Type D), < 5' deep		EA	@	\$	\$3,908	=	\$	\$	-	*
Storm Sewer Manhole, Box Base, Depth < 15 feet		EA	@	\$	\$8,592	=	\$	\$	-	*
Storm Sewer Manhole, Slab Base, Depth < 15 feet	1.00	EA	@	\$	\$4,575	=	\$	\$	4,575.00	*
Geotextile (Erosion Control) Roadside ditches	26,000.00	SY	@	\$	\$5	=	\$	\$	130,000.00	*
Rip Rap, d50 Size from 6" to 24"	545.00	CY	@	\$	\$98	=	\$	\$	53,410.00	*
Rip Rap, Grouted		CY	@	\$	\$215	=	\$	\$	-	*
Drainage Channel Construction, Size ( W x H )		LF	@	\$		=	\$	\$	-	*
Channel Lining, Concrete		CY	@	\$	\$450	=	\$	\$	-	*
Channel Lining, Rip Rap		CY	@	\$	\$98	=	\$	\$	-	*

Channel Lining, Grass	AC	@	\$ 1,287	=	\$	\$ -	*
Channel Stabilization (40' wide utility crossing)	SY	@	\$ 3	=	\$	\$ -	*
Detention Outlet Structure	EA	@	\$ 8,000	=	\$	\$ -	*
Detention Emergency Spillway	EA	@	\$ 1,000	=	\$	\$ -	*
Permanent Water Quality Facility (Describe)	EA	@	\$	=	\$	\$ -	*

\* Subject to defect warranty financial assurance. DO NOT ENTER MORE THAN 80% COMPLETE. A minimum of 20% to be retained up to preliminary acceptance process. † For flared end sections, multiply pipe LF cost by 6

= 3,842,805.00 3,842,805.00 \*\*

Section 2 Subtotal \$

**Section 3 - Common Development Improvements (Private or District)\*\*\***

**- Roadway Improvements**

(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)

Quantity	Units	Price	% Complete	Remaining
	@	\$		\$ -
	@	\$		\$ -
	@	\$		\$ -

**- Storm Drain Improvements**

(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)

	@	\$		\$ -
	@	\$		\$ -
	@	\$		\$ -

**Detention Facility Construction (Pond 1)**

Detention Outlet Structure w/ Micropool	1.00	EA	@	\$ 8,000	=	\$ 8,000.00	\$ 8,000.00
Detention Emergency Spillway	1.00	EA	@	\$ 2,000	=	\$ 2,000.00	\$ 2,000.00
24" RCP Storm Outfall	60.00	LF	@	\$ 84	=	\$ 5,040.00	\$ 5,040.00
Rip Rap, d50 Size from 6" to 24"	96.00	CY	@	\$ 98	=	\$ 9,408.00	\$ 9,408.00

**Detention Facility Construction (Pond 4)**

Detention Outlet Structure w/ Micropool	1.00	EA	@	\$ 12,000	=	\$ 12,000.00	\$ 12,000.00
Detention Emergency Spillway	1.00	EA	@	\$ 4,000	=	\$ 4,000.00	\$ 4,000.00
Concrete Forebays w/ Headwall	1.00	EA	@	\$ 15,000	=	\$ 15,000.00	\$ 15,000.00
Concrete trickle channel	325.00	LF	@	\$ 40	=	\$ 13,000.00	\$ 13,000.00
Rip-Rap Chute	260.00	CY	@	\$ 98	=	\$ 25,480.00	\$ 25,480.00
Grouted Rip-Rap	40.00	CY	@	\$ 215	=	\$ 8,600.00	\$ 8,600.00
48" RCP Storm Outfall	95.00	LF	@	\$ 178	=	\$ 16,910.00	\$ 16,910.00
Rip Rap, d50 Size from 6" to 24"	360.00	CY	@	\$ 98	=	\$ 35,280.00	\$ 35,280.00

**Detention Facility Construction (Pond 8)**

Detention Outlet Structure w/ Micropool	1.00	EA	@	\$ 18,000	=	\$ 18,000.00	\$ 18,000.00
Detention Emergency Spillway	1.00	EA	@	\$ 5,000	=	\$ 5,000.00	\$ 5,000.00
Concrete Forebay w/ Headwall	1.00	EA	@	\$ 20,000	=	\$ 20,000.00	\$ 20,000.00
Concrete trickle channel	100.00	LF	@	\$ 40	=	\$ 4,000.00	\$ 4,000.00
60" RCP Storm Outfall	80.00	LF	@	\$ 216	=	\$ 17,280.00	\$ 17,280.00
Rip Rap, d50 Size from 6" to 24"	480.00	CY	@	\$ 98	=	\$ 47,040.00	\$ 47,040.00

**Detention Facility Construction (Pond 12)**

Detention Outlet Structure w/ Micropool	1.00	EA	@	\$ 8,000	=	\$ 8,000.00	\$ 8,000.00
Detention Emergency Spillway	1.00	EA	@	\$ 2,000	=	\$ 2,000.00	\$ 2,000.00
30" RCP Storm Outfall	65.00	LF	@	\$ 94	=	\$ 6,110.00	\$ 6,110.00
Rip Rap, d50 Size from 6" to 24"	130.00	CY	@	\$ 98	=	\$ 12,740.00	\$ 12,740.00

**Detention Facility Construction (JD Pond 13)**

SWQ Outlet Structure	1.00	EA	@	\$ 1,000	=	\$ 1,000.00	\$ 1,000.00
Detention Emergency Spillway (Rip-Rap Chute)	1,000.00	CY	@	\$ 98	=	\$ 98,000.00	\$ 98,000.00
Dual box culverts (4'x10') incl. in public storm above	2.00	EA	@	\$ 90,000	=	\$ 180,000.00	\$ 180,000.00
(2) 6" toe drains	440.00	LF	@	\$ 4	=	\$ 1,760.00	\$ 1,760.00
30" RCP Storm Outfall	480.00	LF	@	\$ 94	=	\$ 45,120.00	\$ 45,120.00
Type II Storm Manhole	2.00	EA	@	\$ 4,575	=	\$ 9,150.00	\$ 9,150.00

**- Water System Improvements**

Water Main Pipe (PVC), Size 8"	LF	@	\$ 94	=	\$	\$ -
Water Main Pipe (Ductile Iron), Size 8"	LF	@	\$ 137	=	\$	\$ -
Gate Valves, 8"	EA	@	\$ 1,852	=	\$	\$ -
Fire Hydrant Assembly w/ all valves	EA	@	\$ 6,430	=	\$	\$ -
Water Service Line Installation, including tap and valves	EA	@	\$ 1,253	=	\$	\$ -
Fire Cistem Installation, complete	EA	@	\$	=	\$	\$ -

**- Sanitary Sewer Improvements**

Sewer Main Pipe (PVC), Size 8"	LF	@	\$ 94	=	\$	\$ -
Sanitary Sewer Manhole, Depth < 15 feet	EA	@	\$ 4,575	=	\$	\$ -
Sanitary Service Line Installation, complete	EA	@	\$ 1,516	=	\$	\$ -
Sanitary Sewer Lift Station, complete	EA	@	\$	=	\$	\$ -

**- Landscaping (If Applicable)**

(List landscaping line items and cost - usually only in case of subdivision specific condition of approval, or PUD)	EA	@	\$	=	\$	\$ -
	EA	@	\$	=	\$	\$ -
	EA	@	\$	=	\$	\$ -
	EA	@	\$	=	\$	\$ -
	EA	@	\$	=	\$	\$ -

\*\*\*items in this section are not subject to defect warranty financial assurance

Section 3 Subtotal = \$ 629,918.00 629,918.00

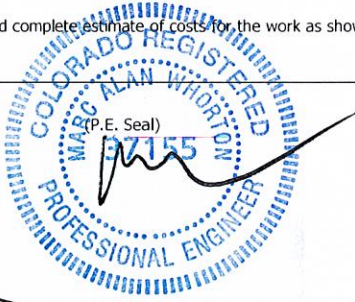
**Financial Assurance Totals**

As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)	\$	<u>\$5,000</u>
( Inc. survey to verify detention pond volumes.)	<b>Total Construction Financial Assurance</b>	<b><u>\$4,477,723.00</u></b>
	(Sum of all section subtotals)	
	<b>Total Remaining Construction Financial Assurance</b>	<b><u>4,477,723.00</u></b>
	(Sum of all section totals less credit for items complete)	
	<b>Total Defect Warranty Financial Assurance</b>	<b><u>\$768,561.00</u></b>
	(20% of all items identified as public improvements(*). 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 approved Construction Drawings associated with the Project.

Engineer



Date

8/2/18

Approved by Owner / Applicant

Date

8-1-18

Approved by El Paso County Engineer / ECM Administrator

Date