

Provide mulching area to match seeding

2015 Financial Assurance Estimate Form

(Basic form)

3/17/2015

|  |                |
|--|----------------|
| <b>Project Information</b>                       |                |
| <b>Hannah Ridge at Feathergrass Filing No. 3</b> | <b>7/25/17</b> |
| Project Name                                     | Date           |

| Section 1 - Grading and Erosion Control BMPs                   | Quantity  | Units | Price     |                           |                        |
|--|-----------|-------|-----------|---------------------------|------------------------|
| Earthwork*   | 43,980.00 | CY    | @ \$5     | =                         | \$ 219,500.00 *        |
| Permanent Seeding*   | 24.20     | AC    | @ \$582   | =                         | \$ 14,084.40 *         |
| Mulching*  |           | AC    | @ \$507   | =                         | \$ *                   |
| Permanent Erosion Control Blanket*                             |           | SY    | @ \$6     | =                         | \$ *                   |
| Temporary Erosion Control Blanket                              |           | SY    | @ \$3     | =                         | \$                     |
| Vehicle Tracking Control                                       | 2.00      | EA    | @ \$1,626 | =                         | \$ 3,252.00            |
| Safety Fence   |           | LF    | @ \$3     | =                         | \$                     |
| Silt Fence   |           | LF    | @ \$4     | =                         | \$                     |
| Temporary Seeding  |           | AC    | @ \$485   | =                         | \$                     |
| Temporary Mulch  |           | AC    | @ \$507   | =                         | \$                     |
| Erosion Bales  | 24.00     | EA    | @ \$21    | =                         | \$ 504.00              |
| Erosion Logs   |           | LF    | @ \$6     | =                         | \$                     |
| Rock Ditch Checks  |           | EA    | @ \$      | =                         | \$                     |
| Inlet Protection   | 4.00      | EA    | @ \$153   | =                         | \$ 612.00              |
| Sediment Basin   |           | EA    | @ \$1,625 | =                         | \$                     |
| Concrete Washout Basin   | 1.00      | EA    | @ \$776   | =                         | \$ 776.00              |
|  |           |       | @ \$      | =                         | \$                     |
| Specified items subject to defect warranty financial assurance |           |       |           |                           |                        |
|  |           |       |           | <b>Section 1 Subtotal</b> | <b>= \$ 238,728.40</b> |

| Section 2 - Public Improvements**     | Quantity | Units | Price       |   |              |
|---------------------------------------|----------|-------|-------------|---|--------------|
| <b>- Roadway Improvements</b>         |          |       |             |   |              |
| Construction Traffic Control          |          | LS    | @ \$        | = | \$           |
| Aggregate Base Course (8" thick)      | 3,680.00 | Tons  | @ \$18      | = | \$ 66,240.00 |
| Asphalt Pavement (3" thick)           | 1,380.00 | Tons  | @ \$65      | = | \$ 89,700.00 |
| Raised Median, Paved                  |          | SF    | @ \$7       | = | \$           |
| Electrical Conduit, Size =            |          | LF    | @ \$14      | = | \$           |
| Traffic Signal, complete intersection |          | EA    | @ \$250,000 | = | \$           |
| Regulatory Sign                       | 4.00     | EA    | @ \$100     | = | \$ 400.00    |
| Advisory Sign                         |          | EA    | @ \$100     | = | \$           |
| Guide/Street Name Sign                | 8.00     | EA    | @ \$75      | = | \$ 600.00    |
| Epoxy Pavement Marking                |          | SF    | @ \$12      | = | \$           |
| Thermoplastic Pavement Marking        |          | SF    | @ \$22      | = | \$           |
| Barricade - Type 3                    | 3.00     | EA    | @ \$115     | = | \$ 345.00    |
| Delineator (Type I)                   |          | EA    | @ \$21      | = | \$           |
| Curb and Gutter, Type C (Ramp)        | 2,103.00 | LF    | @ \$21      | = | \$ 44,163.00 |
| Curb and Gutter, Type A (6" Vertical) | 2,314.00 | LF    | @ \$16      | = | \$ 37,024.00 |
| Curb and Gutter, Type B (Median)      |          | LF    | @ \$13      | = | \$           |
| Pedestrian Ramp                       | 153.00   | SY    | @ \$108     | = | \$ 16,524.00 |

|  |          |    |   |    |         |   |    |            |
|--|----------|----|---|----|---------|---|----|------------|
| Cross Pan  | 116.00   | SY | @ | \$ | \$53    | = | \$ | 6,148.00   |
| Curb Chase   |          | EA | @ | \$ | \$1,300 | = | \$ |            |
| Guardrail Type 3 (W-Beam)                          |          | LF | @ | \$ | \$18    | = | \$ |            |
| Guardrail Type 7 (Concrete)                        |          | LF | @ | \$ | \$67    | = | \$ |            |
| Guardrail End Anchorage                            |          | EA | @ | \$ | \$1,978 | = | \$ |            |
| Guardrail Impact Attenuator                        |          | EA | @ | \$ | \$3,564 | = | \$ |            |
| Sound Barrier Fence                                |          | LF | @ | \$ | \$100   | = | \$ |            |
| <b>- Storm Drain Improvements</b>                  |          |    |   |    |         |   |    |            |
| Concrete Box Culvert (M Standard), Size ( 10 x 6 ) | 59.00    | LF | @ | \$ | 480     | = | \$ | 28,320.00  |
| Reinforced Concrete Pipe (RCP) 90"                 | 1,000.00 | LF | @ | \$ | 383     | = | \$ | 383,000.00 |
| 18" Reinforced Concrete Pipe                       | 223.00   | LF | @ | \$ | \$69    | = | \$ | 15,387.00  |
| 24" Reinforced Concrete Pipe                       | 352.00   | LF | @ | \$ | \$84    | = | \$ | 29,568.00  |
| 30" Reinforced Concrete Pipe                       | 90.00    | LF | @ | \$ | \$94    | = | \$ | 8,460.00   |
| 36" Reinforced Concrete Pipe                       |          | LF | @ | \$ | \$124   | = | \$ |            |
| 42" Reinforced Concrete Pipe                       |          | LF | @ | \$ | \$134   | = | \$ |            |
| 48" Reinforced Concrete Pipe                       |          | LF | @ | \$ | \$178   | = | \$ |            |
| 54" Reinforced Concrete Pipe                       |          | LF | @ | \$ | \$182   | = | \$ |            |
| 60" Reinforced Concrete Pipe                       | 360.00   | LF | @ | \$ | \$216   | = | \$ | 77,760.00  |
| 66" Reinforced Concrete Pipe                       |          | LF | @ | \$ | \$263   | = | \$ |            |
| 72" Reinforced Concrete Pipe                       |          | LF | @ | \$ | \$283   | = | \$ |            |
| High Density Polyethylene (HDPE) Pipe Size         |          | LF | @ | \$ |         | = | \$ |            |
| 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) RCP †                     |          | EA | @ | \$ |         | = | \$ |            |
| Flared End Section (FES) HDPE †                    |          | EA | @ | \$ |         | = | \$ |            |
| Flared End Section (FES) CSP †                     |          | EA | @ | \$ |         | = | \$ |            |
| End Treatment- Headwall                            | 1.00     | EA | @ | \$ | 3,185   | = | \$ | 3,185.00   |
| End Treatment- Wingwall                            | 4.00     | EA | @ | \$ | 2,740   | = | \$ | 10,960.00  |
| End Treatment - Cutoff Wall                        | 1.00     | EA | @ | \$ | 300     | = | \$ | 300.00     |
| Curb Inlet (Type R) L=5', Depth < 5 feet           | 1.00     | EA | @ | \$ | \$3,791 | = | \$ | 3,791.00   |
| Curb Inlet (Type R) L=5', 5'-10' Depth             |          | EA | @ | \$ | \$5,044 | = | \$ |            |
| Curb Inlet (Type R) L =5' , 10'-15' Depth          |          | EA | @ | \$ | \$6,027 | = | \$ |            |
| Curb Inlet (Type R) L =10', Depth < 5 feet         |          | EA | @ | \$ | \$5,528 | = | \$ |            |
| Curb Inlet (Type R) L =10' , 5'-10' Depth          |          | EA | @ | \$ | \$6,694 | = | \$ |            |
| Curb Inlet (Type R) L =10' , 10'-15' Depth         |          | EA | @ | \$ | \$7,500 | = | \$ |            |
| Curb Inlet (Type R) L =15' , Depth < 5 feet        | 1.00     | EA | @ | \$ | \$7,923 | = | \$ | 7,923.00   |
| Curb Inlet (Type R) L =15' , 5'-10' Depth          | 2.00     | EA | @ | \$ | \$8,000 | = | \$ | 16,000.00  |
| 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   | 2.00   | EA | @ | \$ | \$3,270 | = | \$ 6,540.00             |
| Grated Inlet (Type D), < 5' deep   |        | EA | @ | \$ | \$3,908 | = | \$                      |
| Storm Sewer Manhole, Box Base, Depth < 15 feet   | 3.00   | EA | @ | \$ | \$8,592 | = | \$ 25,776.00            |
| Storm Sewer Manhole, Slab Base, Depth < 15 feet  |        | EA | @ | \$ | \$4,575 | = | \$                      |
| Geotextile (Erosion Control)   |        | SY | @ | \$ | \$5     | = | \$                      |
| Rip Rap, d50 Size from 6" to 24"   |        | CY | @ | \$ | \$98    | = | \$                      |
| Rip Rap, Grouted   |        | CY | @ | \$ | \$215   | = | \$                      |
| Drainage Channel Construction, Size ( W x H )  |        | LF | @ | \$ |         | = | \$                      |
| Channel Lining, Concrete   |        | CY | @ | \$ | \$450   | = | \$                      |
| Channel Lining, Rip Rap  | 882.00 | CY | @ | \$ | \$98    | = | \$ 86,436.00            |
| Channel Lining, Grass  |        | AC | @ | \$ | \$1,287 | = | \$                      |
| Channel Lining, Other Stabilization  |        | SY | @ | \$ | \$3     | = | \$                      |
| Detention Outlet Structure   |        | EA | @ | \$ |         | = | \$                      |
| Detention Emergency Spillway   |        | EA | @ | \$ |         | = | \$                      |
| Permanent Water Quality Facility (Describe)  |        | EA | @ | \$ |         | = | \$                      |
| **all items this section subject to defect warranty financial assurance. † For flared end sections, multiply pipe LF cost by 6 |        |    |   |    |         |   |                         |
| <b>Section 2 Subtotal</b>  |        |    |   |    |         | = | <b>\$ 964,550.00 **</b> |

Provide inlet and outlet protection for 7x7 box culvert

| <b>Section 3 - Common Development Improvements<br/>(Private or District)***</b>   | <b>Quantity</b> | <b>Units</b> |   | <b>Price</b> |                           |                      |
|---|-----------------|--------------|---|--------------|---------------------------|----------------------|
| <b>- Roadway Improvements</b>   |                 |              |   |              |                           |                      |
| (Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County) |                 |              | @ | \$           | =                         | \$                   |
|   |                 |              | @ | \$           | =                         | \$                   |
|   |                 |              | @ | \$           | =                         | \$                   |
| Concrete Sidewalk (5" thick)  | 2,270.00        | SY           | @ | \$ 58        | =                         | \$ 131,660.00        |
|   |                 |              | @ | \$           | =                         | \$                   |
|   |                 |              | @ | \$           | =                         | \$                   |
| <b>- Storm Drain Improvements</b>   |                 |              |   |              |                           |                      |
| (Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County) |                 |              | @ | \$           | =                         | \$                   |
|   |                 |              | @ | \$           | =                         | \$                   |
|   |                 |              | @ | \$           | =                         | \$                   |
| Permanent Water Quality Facility (Sand Filter B)  | 1.00            | EA           | @ | \$ 36,200    | =                         | \$ 36,200.00         |
| Permanent Water Quality Facility (Sand Filter E1)   | 1.00            | EA           | @ | \$ 7,400     | =                         | \$ 7,400.00          |
| Permanent Water Quality Facility (Sand Filter E2)   | 1.00            | EA           | @ | \$ 14,300    | =                         | \$ 14,300.00         |
| <b>- Water System Improvements</b>  |                 |              |   |              |                           |                      |
| Water Main Pipe (PVC), Size 8"  | 2,480.00        | LF           | @ | \$ 94        | =                         | \$ 233,120.00        |
| Water Main Pipe (Ductile Iron), Size 8"   |                 | LF           | @ | \$ 137       | =                         | \$                   |
| Gate Valves, 8"   | 20.00           | EA           | @ | \$ 1,852     | =                         | \$ 37,040.00         |
| Fire Hydrant Assembly w/ all valves   | 3.00            | EA           | @ | \$ 6,430     | =                         | \$ 19,290.00         |
| Water Service Line Installation, inc. tap & valves  | 40.00           | EA           | @ | \$ 1,253     | =                         | \$ 50,120.00         |
| Fire Cistern Installation, complete   |                 | EA           | @ | \$           | =                         | \$                   |
| <b>- Sanitary Sewer Improvements</b>  |                 |              |   |              |                           |                      |
| Sewer Main Pipe (PVC), Size 8"  | 3,205.00        | LF           | @ | \$ 94        | =                         | \$ 301,270.00        |
| Sanitary Sewer Manhole, Depth < 15 feet   | 11.00           | EA           | @ | \$ 4,575     | =                         | \$ 50,325.00         |
| Sanitary Service Line Installation, complete  | 39.00           | EA           | @ | \$ 1,516     | =                         | \$ 59,124.00         |
| Sanitary Sewer Lift Station, complete   |                 | EA           | @ | \$           | =                         | \$                   |
| <b>- Landscaping (If Applicable)</b>  |                 |              |   |              |                           |                      |
| (List landscaping line items and cost - usually only in case of subdivision specific condition of approval, or PUD)             |                 | EA           | @ | \$           | =                         | \$                   |
|   |                 | EA           | @ | \$           | =                         | \$                   |
| Site Wall   | 381.00          | EA           | @ | \$ 80        | =                         | \$ 30,480.00         |
| Site Trees  | 17.00           | EA           | @ | \$ 175       | =                         | \$ 2,975.00          |
|   |                 | EA           | @ | \$           | =                         | \$                   |
| ***items in this section are not subject to defect warranty financial assurance   |                 |              |   |              |                           |                      |
|   |                 |              |   |              | <b>Section 3 Subtotal</b> | <b>\$ 973,304.00</b> |

| <b>Financial Assurance Totals</b>   |  |
|---|--|
| As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS) | \$ 3,500.00  |
| ( Inc. survey to verify detention pond volumes.)                                | <b>Construction Financial Assurance Total</b> = \$ 2,180,082.40  |
| (Sum of all Section Totals)   |  |
|   |  |
|   | Public Improvements Total* ** \$ 1,198,134.40                    |
|   | <b>Defect Warranty Financial Assurance Total</b> = \$ 239,626.88 |
| (20%of Section 2 Subtotal and 20% of identified Grading and Erosion BMP items)  |  |
|   |  |

**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.

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Engineer Date

(P.E. Seal)

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Approved by Owner / Applicant Date

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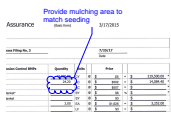
Approved by El Paso County Engineer / ECM Administrator Date

# Markup Summary

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dsdrice (2)

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**Subject:** Cloud+  
**Page Label:** 1  
**Lock:** Unlocked  
**Status:**  
**Checkmark:** Unchecked  
**Author:** dsdrice  
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Provide mulching area to match seeding



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**Subject:** Cloud+  
**Page Label:** 3  
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Provide inlet and outlet protection for 7x7 box culvert