


# ENG-CDR21014-R2-DR.pdf Markup Summary

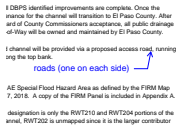
4 (1)




**Subject:** Callout  
**Page Index:** 4  
**Date:** 2/8/2022 12:28:57 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 4

which also showed the channel remaining in its current location.


7 (4)




**Subject:** Callout  
**Page Index:** 7  
**Date:** 2/8/2022 1:34:54 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 7

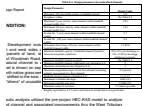
roads (one on each side)




**Subject:** Highlight  
**Page Index:** 7  
**Date:** 2/8/2022 1:38:26 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 7

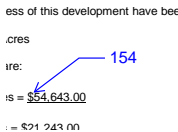
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**Page Index:** 7  
**Date:** 2/9/2022 12:11:16 PM  
**Author:** dsdrice  
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**Space:**  
**Page Label:** 7


Provide channel design attributes. Table similar to UDFCD Table 8-3 is preferred. Address low-flow channel



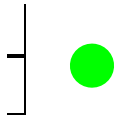
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**Page Label:** 7

9 (1)



**Subject:** Callout  
**Page Index:** 9  
**Date:** 2/8/2022 1:42:21 PM  
**Author:** dsdrice  
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**Space:**  
**Page Label:** 9

154



**Subject:** Highlight  
**Page Index:** 10  
**Date:** 2/8/2022 1:47:06 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 10

Available Co  
per 2021 DB  
Total Estim

**Subject:** 2021  
**Page Index:** 10  
**Date:** 2/9/2022 11:48:28 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 10

Estimated Cost of Channel In  
nated Future Plat Fee Costs fo  
\$16,597.15  
Fees Previously Collected (Fal  
lage Pre-credit  
Fees Previously Collected (Bei  
lage and Bridge Pre-credits

**Subject:** Previously Collecte  
**Page Index:** 10  
**Date:** 2/9/2022 11:49:05 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 10

\$16,597.15  
Fees Previously Collected (Fal  
lage Pre-credit  
Fees Previously Collected (Bei  
lage and Bridge Pre-credits  
struction of Pond WU: \$489,28  
nated Channel Construction C

**Subject:** Previously Collecte  
**Page Index:** 10  
**Date:** 2/9/2022 11:49:10 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 10

lage and Bridge Fee Cost  
\$5 (Excess Credit)

**Subject:** and Bridge Fee  
**Page Index:** 10  
**Date:** 2/9/2022 11:49:39 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 10

ness Planning, Inc. and  
Filing No. 11: \$182,701.05  
ion Filing No. 21: \$790,035.95  
keep drainage and  
bridge fees separate  
and Bridge Fee Costs for Falcon  
ness Credits)

**Subject:** Callout keep drainage and bridge fees separate  
**Page Index:** 10  
**Date:** 2/9/2022 11:50:09 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 10

state that fee costs for Falcon residents at their latest ranging to  
15  
actually collected (Falcon Meadows at Bert Grass Filing No. 1)  
- credit  
actually collected (Bert Grass Residential Subdivision Filing No.  
1) Bridge Fee Costs  
of Pond WU, 2013/2015  
Annual Construction Costs \$248,411.50  
Annual Construction Costs Estimated Drainage and Bridge F  
Bert Grass Filing No. 2, 2013/2015 (Bert Grass Credit)

**Subject:** Callout  
**Page Index:** 10  
**Date:** 2/9/2022 11:50:27 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 10

offset

4 values do not include permitting, enginee  
mitigation, right-of-way acquisition or other  
2013/2015  
available credit for Falcon Basin West  
at 2021 CBPS: \$593,015.80  
Total Estimated Cost of Channel Improvement  
Estimated Future Plat Fee Costs for Falcon  
\$616,507.15

**Subject:** Callout  
**Page Index:** 10  
**Date:** 2/9/2022 11:51:10 AM  
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**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 10

2013/2015

11 (2)

**Subject:** Callout  
**Page Index:** 11  
**Date:** 2/9/2022 11:55:26 AM  
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**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 11

pre-

**Subject:** Callout  
**Page Index:** 11  
**Date:** 2/9/2022 11:57:06 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 11

Bridge fees need to be paid unless the culverts  
have been approved by drainage board and bridge  
fees adjusted

12 (5)

\$54,64

**Subject:**  
**Page Index:** 12  
**Date:** 2/8/2022 1:43:00 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 12

\$5

t Grass Residential  
ed. Detention for  
d on-site WQCV p  
nent will not have

**Subject:**  
**Page Index:** 12  
**Date:** 2/9/2022 11:52:20 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 12

Detention

have been constructed. At that time, channels could shall be the responsibility of El Paso County. It is Residential Subdivision, separate Final Drainage Plan by El Paso County.

water quality

Residential Subdivisions lie within the West Tributary of the Falcon Basin Area. For the existing and proposed developments, WQCV points to provide water quality for the site will not have any adverse impacts on downstream.

**Subject:** Callout  
**Page Index:** 12  
**Date:** 2/9/2022 11:52:37 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 12

water quality

El Paso County

Residential Subdivisions lie within the West Tributary of the Falcon Basin Area. For the existing and proposed developments, WQCV points to provide water quality for the site will not have any adverse impacts on downstream.

Add conclusions about the proposed channel design.

**Subject:** Callout  
**Page Index:** 12  
**Date:** 2/9/2022 11:53:00 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 12

Add conclusions about the proposed channel design

according to the Drainage Criteria Manual. Bent channels until such a time that all final channel conditions will become publicly owned and a County development of future things within the Drainage District. Reports will be required to be submitted upon County acceptance.

upon County acceptance

the West Tributary of the Falcon Basin Area of developments are provided in two existing and one for the entire tributary area. The proposed downstream developments or existing drainageways.

**Subject:** Callout  
**Page Index:** 12  
**Date:** 2/9/2022 11:53:43 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 12

upon County acceptance

13 (1)

2013/2015

Drainage Criteria Manual, October 1991. Colorado Springs, November 2002. Drainage and Flood Control District, January 2015. Matrix Design Group, September 2015. Primary Drainage Plan - Bent Grass Subdi

**Subject:** Callout  
**Page Index:** 13  
**Date:** 2/9/2022 11:51:37 AM  
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**Page Label:** 13

2013/2015

18 (1)

Better version available

**Subject:** Text Box  
**Page Index:** 18  
**Date:** 2/8/2022 5:39:29 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
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**Page Label:** 17

Better version available

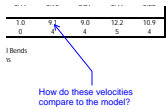
38 (2)

1.0

∩

**Subject:**  
**Page Index:** 38  
**Date:** 2/9/2022 12:13:02 PM  
**Author:** dsdrice  
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**Layer:**  
**Space:**  
**Page Label:** 19

1.0



**Subject:** Callout  
**Page Index:** 38  
**Date:** 2/9/2022 12:14:42 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 19

How do these velocities compare to the model?

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51 (1)



**Subject:** Highlight  
**Page Index:** 51  
**Date:** 2/9/2022 12:16:15 PM  
**Author:** dsdrice  
**Color:** ■  
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**Page Label:** 32

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61 (4)



**Subject:** Callout  
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**Date:** 2/13/2022 4:33:56 PM  
**Author:** dsdrice  
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**Layer:**  
**Space:**  
**Page Label:** 42

Provide cross-sections at the 3 drop structures similar to upstream drops



**Subject:**  
**Page Index:** 61  
**Date:** 2/13/2022 4:34:37 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 42



**Subject:**  
**Page Index:** 61  
**Date:** 2/13/2022 4:34:51 PM  
**Author:** dsdrice  
**Color:** ■  
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**Space:**  
**Page Label:** 42



**Subject:**  
**Page Index:** 61  
**Date:** 2/13/2022 4:35:01 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 42

80  
01  
00  
67



**Subject:** Highlight  
**Page Index:** 132  
**Date:** 2/9/2022 12:26:01 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 113

0.82  
0.83  
1.00  
1.00  
0.50



**Subject:** Highlight  
**Page Index:** 132  
**Date:** 2/9/2022 12:26:29 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 113

0.80  
0.81  
1.01  
0.55



**Subject:** Highlight  
**Page Index:** 132  
**Date:** 2/9/2022 12:27:34 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 113

.80  
.81  
.01  
.01  
75

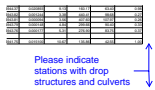


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**Page Label:** 113

0.88  
1.01  
0.98  
0.27



**Subject:** Highlight  
**Page Index:** 132  
**Date:** 2/9/2022 12:28:31 PM  
**Author:** dsdrice  
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**Page Label:** 113



**Subject:** Callout  
**Page Index:** 132  
**Date:** 2/9/2022 12:36:45 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 113

Please indicate stations with drop structures and culverts

i  
5  
|  
2  
2  
|  
5



**Subject:** Highlight  
**Page Index:** 133  
**Date:** 2/9/2022 12:29:44 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 114

i5  
|  
i1  
|  
10  
|  
i3  
|  
-



**Subject:** Highlight  
**Page Index:** 133  
**Date:** 2/9/2022 12:29:59 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 114

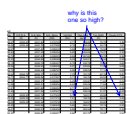
1.01  
|  
0.82  
|  
1.01  
|  
0.53  
|  
0.53



**Subject:** Highlight  
**Page Index:** 133  
**Date:** 2/9/2022 12:30:23 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 114

0.00	0.00000	1.000	0.000
24	0.00	0.00000	0.000
25	0.75	0.00000	0.000
26	0.10	0.00000	0.000
27	0.40	0.00000	0.000
28	0.00	0.00000	0.000
29	0.10	0.00000	0.000
30	0.00	0.00000	0.000
31	0.00	0.00000	0.000
32	0.00	0.00000	0.000
33	0.00	0.00000	0.000
34	0.00	0.00000	0.000
35	0.00	0.00000	0.000
36	0.00	0.00000	0.000
37	0.00	0.00000	0.000
38	0.00	0.00000	0.000
39	0.00	0.00000	0.000
40	0.00	0.00000	0.000
41	0.00	0.00000	0.000
42	0.00	0.00000	0.000
43	0.00	0.00000	0.000
44	0.00	0.00000	0.000
45	0.00	0.00000	0.000
46	0.00	0.00000	0.000
47	0.00	0.00000	0.000
48	0.00	0.00000	0.000
49	0.00	0.00000	0.000
50	0.00	0.00000	0.000

**Subject:** 9.12 162.51 63.59 1.0  
**Page Index:** 133  
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**Page Label:** 114



**Subject:** Callout why is this one so high?  
**Page Index:** 133  
**Date:** 2/9/2022 12:31:45 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 114

0.00  
|  
0.81  
|  
1.01  
|  
0.58  
|  
0.58



**Subject:** Highlight  
**Page Index:** 133  
**Date:** 2/9/2022 12:32:21 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 114

0.68  
0.80  
1.00  
0.49  
0.49



**Subject:** Highlight  
**Page Index:** 133  
**Date:** 2/9/2022 12:33:22 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 114

0.71  
0.31  
0.11  
0.55  
0.91



**Subject:** Highlight  
**Page Index:** 133  
**Date:** 2/9/2022 12:33:58 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 114

0.67  
0.74  
0.99  
0.60  
0.67



**Subject:** Highlight  
**Page Index:** 133  
**Date:** 2/9/2022 12:34:34 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 114

0.11  
0.09  
0.11  
0.13



**Subject:** Highlight  
**Page Index:** 133  
**Date:** 2/9/2022 12:34:50 PM  
**Author:** dsdrice  
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**Layer:**  
**Space:**  
**Page Label:** 114

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134 (1)

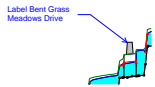
0.81  
0.99  
0.96  
1.00



**Subject:** Highlight  
**Page Index:** 134  
**Date:** 2/9/2022 12:35:35 PM  
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**Page Label:** 115

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136 (1)



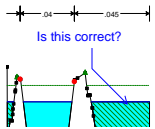
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**Date:** 2/9/2022 12:38:35 PM  
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**Page Label:** 117

Label Bent Grass Meadows Drive



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166 (1)

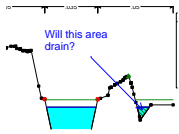


**Subject:** Callout  
**Page Index:** 166  
**Date:** 2/10/2022 4:10:37 PM  
**Author:** dsdrice  
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**Page Label:** 147

Is this correct?

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167 (1)



**Subject:** Callout  
**Page Index:** 167  
**Date:** 2/10/2022 4:09:47 PM  
**Author:** dsdrice  
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**Layer:**  
**Space:**  
**Page Label:** 148

Will this area drain?

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168 (2)



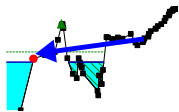
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**Page Index:** 168  
**Date:** 2/9/2022 12:56:36 PM  
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**Space:**  
**Page Label:** 149



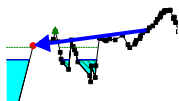
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**Page Index:** 168  
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**Author:** dsdrice  
**Color:** ■  
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**Page Label:** 149

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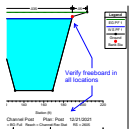
169 (3)



**Subject:** Arrow  
**Page Index:** 169  
**Date:** 2/9/2022 12:53:45 PM  
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**Layer:**  
**Space:**  
**Page Label:** 150



**Subject:** Arrow  
**Page Index:** 169  
**Date:** 2/9/2022 12:54:25 PM  
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**Space:**  
**Page Label:** 150

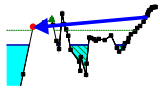


**Subject:** Callout  
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**Page Label:** 150

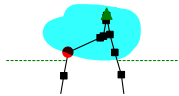
Verify freeboard in all locations

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170 (2)



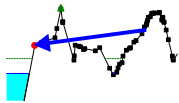
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**Subject:**  
**Page Index:** 170  
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**Page Label:** 151

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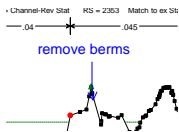
171 (1)



**Subject:** Arrow  
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**Page Label:** 152

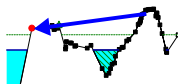
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172 (3)

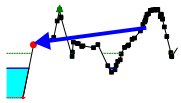


**Subject:** Callout  
**Page Index:** 172  
**Date:** 2/9/2022 12:50:15 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 153

remove berms



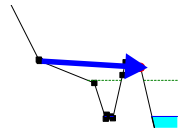
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**Page Index:** 172  
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**Page Label:** 153



**Subject:** Arrow  
**Page Index:** 172  
**Date:** 2/9/2022 12:52:16 PM  
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**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 153

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173 (1)

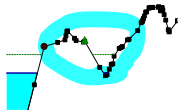


**Subject:** Arrow  
**Page Index:** 173  
**Date:** 2/9/2022 12:49:57 PM  
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**Layer:**  
**Space:**  
**Page Label:** 154

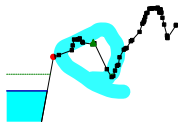
Grade to the channel

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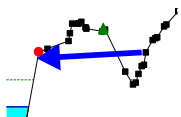
174 (5)



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**Page Index:** 174  
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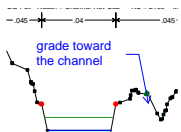


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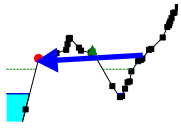
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Grade to the channel



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grade toward the channel

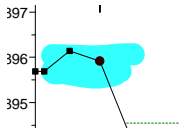


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Grade to the channel

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178 (1)



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