

ENG-SP20008-R1-PDR.pdf Markup Summary

1 (4)



Subject: PCD Comment Legend
Page Index: 1
Date: 1/5/2021 6:22:29 PM
Author: dsdrice
Color: ■
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Page Label: 1

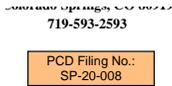


Subject: EPC ENG Review
Page Index: 1
Date: 1/5/2021 6:22:42 PM
Author: dsdrice
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Page Label: 1



Subject: Text Box
Page Index: 1
Date: 1/5/2021 6:23:11 PM
Author: dsdrice
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Cursory comments - see comment letter also.



Subject: SW - Text Box
Page Index: 1
Date: 12/14/2020 8:27:49 AM
Author: GReese
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PCD Filing No.:
SP-20-008

4 (13)



Subject: Callout
Page Index: 4
Date: 1/5/2021 6:26:58 PM
Author: dsdrice
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and southeast quarter of Section 28?

and the undeveloped land with a total area of approximately 33 acres, in the southeast quarter of Section 28, T1 of El Paso, State of

Subject: Callout
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33

Type B hy
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Author: dsdrice
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ely 264 sin
nproximat

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Page Index: 4
Date: 1/5/2021 6:27:52 PM
Author: dsdrice
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Refer to the vicinity map in A
224?
nodate approximately 264 sing
phases (totaling approximate

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Author: dsdrice
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gic Soil groups. Refer to the so
ough a tributary to the Sand
a Engineering Corp. is perform

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Author: dsdrice
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ek basin is
; studies and

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ek basin is
studies and

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Author: dsdrice
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tributary to
Engineering Corp

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Author: dsdrice
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Delete

The site is currently being designed to accommodate approximately
and development is to be completed in two phases involving appropriate
contingent of suitable design provisions that generally reference to
towards the Sand Creek tributary basin.
All characteristics are contained in Type B hydrologic final project
Appendix A for additional information.
There are no major drainageways on the site. Currently, a culvert
immediately to the east of the site. Currently, future engineering
plans to address Sand Creek stabilization.
There are no known irrigation facilities located on the project site.



Subject:
Page Index: 4
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There are no major drainageways on the site,
althou

no major
ly to the east

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There are no major
immediately to the
plans to address San

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immediately to

Implementation of the
and development is to be completed in two phases involving appropriate
contingent of suitable design provisions that generally reference to
towards the Sand Creek tributary basin.
All characteristics are contained in Type B hydrologic final project
Appendix A for additional information.
There are no major drainageways on the site. Currently, a culvert
immediately to the east of the site. Currently, future engineering
plans to address Sand Creek stabilization.
There are no known irrigation facilities located on the project site.



Subject: Callout
Page Index: 4
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Should be reworded to state Sand Creek is within
the east portion of the site.

5 (2)

consisting
ted east of
proved TI

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east



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Date: 1/6/2021 5:54:45 PM
Author: dsdrice
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Page Label: 5

in the east portion

6 (3)



Subject: Text Box
Page Index: 6
Date: 1/5/2021 6:34:20 PM
Author: dsdrice
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Page Label: 6

Provide detailed analysis of existing conditions



Subject: Callout
Page Index: 6
Date: 1/6/2021 5:58:45 PM
Author: dsdrice
Color: ■
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Page Label: 6

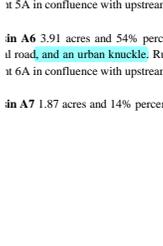
please describe a little more here.



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Date: 1/6/2021 5:58:50 PM
Author: dsdrice
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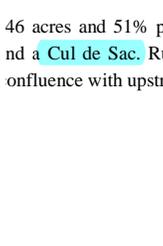
Add a summary sentence stating what is changing from the approved MDDP.

7 (5)



Subject:
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, and an urban knuckle



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Cul de Sac.

Basin A7 1.0
collector road
type R sump

Subject: collector
Page Index: 7
Date: 1/6/2021 6:12:18 PM
Author: dsdrice
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of a collector road
15' type R sump

Subject: collector
Page Index: 7
Date: 1/6/2021 6:13:41 PM
Author: dsdrice
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Basin A8 0.42 acf
if ($Q_5=1.2$ cfs)

Subject: 8 0.42
Page Index: 7
Date: 1/6/2021 6:14:36 PM
Author: dsdrice
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8 (6)

Basin B2 0.8
collector road
basin B2 drain

Subject: collector
Page Index: 8
Date: 1/6/2021 6:17:23 PM
Author: dsdrice
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Basin B4 3.0
collector road
point 4B.

Subject: collector
Page Index: 8
Date: 1/6/2021 6:18:50 PM
Author: dsdrice
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Basin B5 1.0
collector road
point 5B.

Subject: collector
Page Index: 8
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Author: dsdrice
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Basin B6 3.6
collector road
the flow at de

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Page Index: 8
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Author: dsdrice
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collector

Basin B9 3.7
collector road
design point

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Page Index: 8
Date: 1/6/2021 6:23:52 PM
Author: dsdrice
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collector

roads and
point B7 in

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Page Index: 8
Date: 1/6/2021 6:26:23 PM
Author: dsdrice
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Page Label: 8

B7

9 (7)

7 acres and 77% percent impervious is comprised of the eastern side of the collector road. Runoff (Q)=9.9 cfs. Q_{at} point 2C in confluence with bypass runoff from basin C.
3 acres and 70% percent impervious is comprised of the eastern side of the collector road. Runoff (Q)=2.0 cfs. Q_{at} point 2C in confluence with runoff from basin C1.
5 acres and 82% percent impervious is comprised of the western side of a collector road. Runoff (Q)=1.3 cfs. Q_{at} point 3.1C.
4 acres and 77% percent impervious is comprised of the

Subject:
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in confluence with runoff from basin C

70% percent impervious
of the collector road
confluence with runoff

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Author: dsdrice
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collector

western side of
point 2C in confluence

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Author: dsdrice
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point 2C

80 percent impervious is required of the maximum rate of a
7.00 cfs/acre of the maximum flow rate of the storm water
runoff from the site. The runoff from the site shall be
collected and conveyed to the storm water management
system and shall be treated to meet the 100 year average
annual recurrence of design storm, combined flow,
and 100 year return period design storm rate and volume
requirements.

8.1.1.1. The storm water management system shall be designed to
collect and convey the maximum design storm water runoff
from the site to the storm water management system and
shall be designed to meet the 100 year average annual
recurrence of design storm, combined flow, and 100 year
return period design storm rate and volume requirements.

Subject: Text Box
Page Index: 10
Date: 1/6/2021 6:39:42 PM
Author: dsdrice
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Include discussion of design points combined flows, overflow paths and pond release rates and volumes above or add.

11 (2)

8.1.1.1. The storm water management system shall be designed to
collect and convey the maximum design storm water runoff
from the site to the storm water management system and
shall be designed to meet the 100 year average annual
recurrence of design storm, combined flow, and 100 year
return period design storm rate and volume requirements.

Subject: Image
Page Index: 11
Date: 12/14/2020 9:54:37 AM
Author: GReese
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Page Label: 11

Revise Step 4. This should be n/a since this is not an industrial or commercial site.

8.1.1.1. The storm water management system shall be designed to
collect and convey the maximum design storm water runoff
from the site to the storm water management system and
shall be designed to meet the 100 year average annual
recurrence of design storm, combined flow, and 100 year
return period design storm rate and volume requirements.

Subject: SW - Comment
Page Index: 11
Date: 12/14/2020 9:54:55 AM
Author: GReese
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12 (2)

8.1.1.1. The storm water management system shall be designed to
collect and convey the maximum design storm water runoff
from the site to the storm water management system and
shall be designed to meet the 100 year average annual
recurrence of design storm, combined flow, and 100 year
return period design storm rate and volume requirements.

Subject: Callout
Page Index: 12
Date: 1/6/2021 6:28:09 PM
Author: dsdrice
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Page Label: 12

Show all access roads on the plans.

8.1.1.1. The storm water management system shall be designed to
collect and convey the maximum design storm water runoff
from the site to the storm water management system and
shall be designed to meet the 100 year average annual
recurrence of design storm, combined flow, and 100 year
return period design storm rate and volume requirements.

Subject: Cloud+
Page Index: 12
Date: 1/6/2021 6:28:32 PM
Author: dsdrice
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This table is not needed in a PDR

14 (5)

8.1.1.1. The storm water management system shall be designed to
collect and convey the maximum design storm water runoff
from the site to the storm water management system and
shall be designed to meet the 100 year average annual
recurrence of design storm, combined flow, and 100 year
return period design storm rate and volume requirements.

Subject: Callout
Page Index: 14
Date: 1/5/2021 6:18:16 PM
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Page Label: 14

Sand Creek Channel Design report and plans (Kiowa, 2021)



Subject: Callout
Page Index: 14
Date: 1/5/2021 6:19:47 PM
Author: dsdrice
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El Paso County DCM Vol. 1 Update, 2015



Subject: Callout
Page Index: 14
Date: 1/5/2021 6:19:58 PM
Author: dsdrice
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El Paso County ECM, 2019



Subject: Callout
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Date: 1/5/2021 6:30:53 PM
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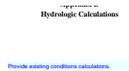
Upper Sand Creek Basin Detention Evaluation Study... (Wilson) ?



Subject: Callout
Page Index: 14
Date: 1/5/2021 6:31:54 PM
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Page Label: 14

TimberRidge PDR/FDR?

23 (1)



Subject: Text Box
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Date: 1/5/2021 6:16:24 PM
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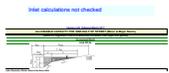
Provide existing conditions calculations.

32 (1)



Subject: Text Box
Page Index: 32
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Provide the FSD summary tables



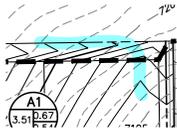
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Inlet calculations not checked

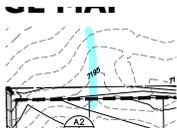


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Date: 1/5/2021 5:54:26 PM
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Provide existing drainage plan



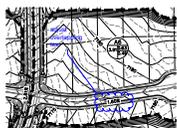
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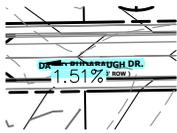


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Author: dsdrice
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adjust overlapping text



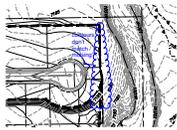
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DAVID RUDABAUGH DR.
 (RESIDENTIAL - 50



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WILLIAM DOWN



Subject: Cloud+
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Author: dsdrice
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contours don't match / missing?



Subject: Callout
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Date: 1/5/2021 5:36:41 PM
Author: dsdrice
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is cutting on purpose?



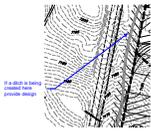
Subject: Callout
Page Index: 82
Date: 1/5/2021 5:37:23 PM
Author: dsdrice
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Is this area to be stabilized?



Subject: Length Measurement
Page Index: 82
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Author: dsdrice
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12 ft



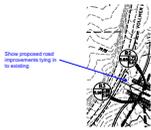
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If a ditch is being created here provide design



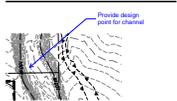
Subject: Callout
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Label culvert and address where flows are going



Subject: Callout
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Date: 1/5/2021 5:59:18 PM
Author: dsdrice
Color: ■
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Show proposed road improvements tying in to existing



Subject: Callout
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Author: dsdrice
Color: ■
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Provide design point for channel

15.1	0.16	82%	0.75	1.05	1.1	1.2
15.2	1.16	77%	0.6	0.8	1.1	1.6
15.3	1.0	79%	0.6	0.8	1.1	1.5
15.4	2.18	68%	0.4	0.7	1.1	1.4
15.5	1.14	78%	0.7	1.0	1.1	1.2
15.6	2.0	78%	0.3	0.8	1.1	1.4

Also provide design point summary table.



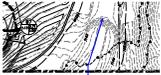
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Date: 1/5/2021 6:04:23 PM
Author: dsdrice
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Also provide design point summary table.



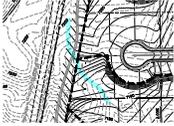
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Date: 1/5/2021 6:04:32 PM
Author: dsdrice
Color: ■
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Is this slope too steep?

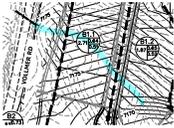


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Show and label channel improvements or provide a separate plan with that information



Subject:
Page Index: 82
Date: 1/5/2021 6:06:04 PM
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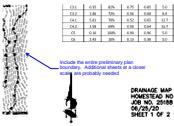
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Subject:
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Date: 1/5/2021 6:07:06 PM
Author: dsdrice
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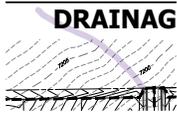
Subject: Callout
Page Index: 82
Date: 1/6/2021 6:00:47 PM
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Include the entire preliminary plan boundary. Additional sheets at a closer scale are probably needed

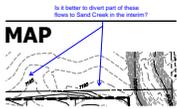


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COLLECTOR



Subject: Highlight
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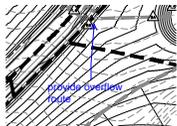
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Page Index: 82
Date: 1/6/2021 6:08:15 PM
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Is it better to divert part of these flows to Sand Creek in the interim?



Subject: Text Box
Page Index: 82
Date: 1/6/2021 6:08:35 PM
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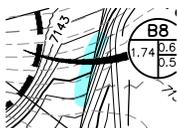
Show all offsite contributing basins and flows.



Subject: Callout
Page Index: 82
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provide overflow route

83 (18)

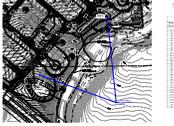


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Subject: Callout
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Date: 1/5/2021 5:42:32 PM
Author: dsdrice
Color: ■
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Page Label: 83

Show grading for the access road/trail



Subject: Callout
Page Index: 83
Date: 1/5/2021 5:43:57 PM
Author: dsdrice
Color: ■
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Page Label: 83

show maint. access roads to ponds



Subject: Callout
Page Index: 83
Date: 1/5/2021 5:44:36 PM
Author: dsdrice
Color: ■
Layer:
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Page Label: 83

label outfall protection



Subject: Text Box
Page Index: 83
Date: 1/5/2021 5:45:16 PM
Author: dsdrice
Color: ■
Layer:
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Page Label: 83

Clearly show and label wetlands



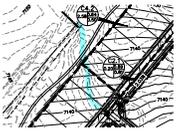
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Page Index: 83
Date: 1/5/2021 5:45:47 PM
Author: dsdrice
Color: ■
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Page Label: 83

Label lots and tracts



Subject: Callout
Page Index: 83
Date: 1/5/2021 5:59:49 PM
Author: dsdrice
Color: ■
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Page Label: 83

Label culvert and address where flows are going

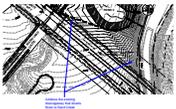


Subject:
Page Index: 83
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Page Label: 83



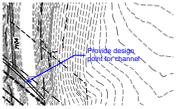
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Page Index: 83
Date: 1/5/2021 6:01:16 PM
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Page Label: 83

Show all proposed road and drainage improvements



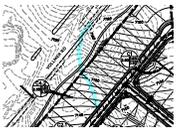
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Page Label: 83

Address the existing drainageway that diverts flows to Sand Creek

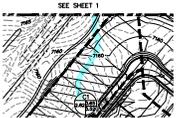


Subject: Callout
Page Index: 83
Date: 1/5/2021 6:03:26 PM
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Page Label: 83

Provide design point for channel



Subject:
Page Index: 83
Date: 1/5/2021 6:08:23 PM
Author: dsdrice
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Subject:
Page Index: 83
Date: 1/5/2021 6:08:33 PM
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Subject:
Page Index: 83
Date: 1/5/2021 6:09:19 PM
Author: dsdrice
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Page Label: 83



Subject: COLLECTOR
Page Index: 83
Date: 1/6/2021 6:02:45 PM
Author: dsdrice
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Subject: COLLECTO
Page Index: 83
Date: 1/6/2021 6:03:41 PM
Author: dsdrice
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Page Label: 83



Subject: COLLECTOR
Page Index: 83
Date: 1/6/2021 6:03:46 PM
Author: dsdrice
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Page Label: 83



Subject: COLLECTOR
Page Index: 83
Date: 1/6/2021 6:04:44 PM
Author: dsdrice
Color:
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Page Label: 83