



# ENG-PUDSP20005-R2-MDDP-redlines.pdf Markup Summary

2 (2)




**Subject:**  
**Page Index:** 2  
**Date:** 2/19/2021 10:45:31 AM  
**Author:** dsdrice  
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**Date:** 2/19/2021 10:45:34 AM  
**Author:** dsdrice  
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4 (4)

endment to the p  
ows, approved in  
MDDP include th  
the east and thro

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approve

S Amendment  
Road  
  
submitted?  
  
endment to the previously approved Master  
ows, approved in 2019, and to the Falcon Dr  
MDDP include the analysis of the flow from I  
the east and through the Middle Tributary of  
reviously studied. Drainage calculations, incl

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submitted?

10. **Final Report**  
The final report for the project was submitted to the City of San Diego on 2/19/2021. The report includes the following information:  
1. Executive Summary  
2. Introduction  
3. Project Description  
4. Methodology  
5. Results  
6. Discussion  
7. Conclusion  
8. Recommendations  
9. References  
10. Appendix

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**Author:** dsdrice  
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. Master Development Drainage Plan – Bent Grass  
Residential Subdivision, by Galloway &  
Company, May 2019.

10. **Final Report**  
The final report for the project was submitted to the City of San Diego on 2/19/2021. The report includes the following information:  
1. Executive Summary  
2. Introduction  
3. Project Description  
4. Methodology  
5. Results  
6. Discussion  
7. Conclusion  
8. Recommendations  
9. References  
10. Appendix

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this is this report; delete

Address the main channel as well.

west?

Mention what the DBPS flows are and why they are different.


25/31?

at DP 32

Is this over the spillway? what can be done to fix the pond?


IS-25 & OS-26, until they reach an existing Meadowbrook Drive, on which is located an "outlet" easement easement of 85.4 and 166.5 cfs for the 5 and 100-year Best Grass Meadows Drive. Curb and gutter in the minor and major storms. It is assumed that the man using them will be directed to the south through the street, all street and slopes. Flows were routed through existing stormwater management. The existing storm flow ng (Q100 133 cfs) - does this all go to Pond 1?

Filing No. 1, was analyzed with the additional flow and headwater. Pond 1 had a 5-year release rate of 0.4 cfs, and water surface elevation was 6007.61. With the 5-year release rates for Pond 1 was 0.4 cfs for the 5-year not will have a 100-year water surface elevation of

**Subject:** Callout  
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(Q100 133 cfs) - does this all go to Pond 1?

Figure No. 1, was analyzed with the additional flow and headwater. Pond 1 had a 5-year release rate of 0.4 cfs, and water surface elevation was 6007.61. With the 5-year release rates for Pond 1 was 0.4 cfs for the 5-year not will have a 100-year water surface elevation of

**Subject:** Callout  
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**Date:** 2/23/2021 12:35:03 PM  
**Author:** dsdrice  
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Provide a plan showing how the flows are split.


Figure No. 1, was analyzed with the additional flow and headwater. Pond 1 had a 5-year release rate of 0.4 cfs, and water surface elevation was 6007.61. With the 5-year release rates for Pond 1 was 0.4 cfs for the 5-year not will have a 100-year water surface elevation of

**Subject:** Callout  
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**Date:** 2/23/2021 12:37:07 PM  
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Provide a description of the overall areas that drain to each design point down to Pond SR4. The sub-basins can be grouped together for this description.

7 (1)


Figure No. 1, was analyzed with the additional flow and headwater. Pond 1 had a 5-year release rate of 0.4 cfs, and water surface elevation was 6007.61. With the 5-year release rates for Pond 1 was 0.4 cfs for the 5-year not will have a 100-year water surface elevation of

**Subject:** Callout  
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**Date:** 2/23/2021 12:31:31 PM  
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Provide a description of the overall areas that drain to each design point on the channel down to Woodmen Road. The sub-basins can be grouped together for this description.


8 (4)

Figure No. 1, was analyzed with the additional flow and headwater. Pond 1 had a 5-year release rate of 0.4 cfs, and water surface elevation was 6007.61. With the 5-year release rates for Pond 1 was 0.4 cfs for the 5-year not will have a 100-year water surface elevation of

**Subject:** Callout  
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**Date:** 2/23/2021 12:39:45 PM  
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Meridian Road

Figure No. 1, was analyzed with the additional flow and headwater. Pond 1 had a 5-year release rate of 0.4 cfs, and water surface elevation was 6007.61. With the 5-year release rates for Pond 1 was 0.4 cfs for the 5-year not will have a 100-year water surface elevation of

**Subject:** Callout  
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**Author:** dsdrice  
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Address the whole site west of Filing 1. LID has not been proposed on any of the projects; revise.

10. Address the main channel.

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**Author:** dsdrice  
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Address the main channel.

analyses on the existing roadside ditch along Meridian road was conducted with results presented in C. From the analysis, it was determined that the existing ditch is not in waste and existing DRPS flows. Importantly, some adjustments to be made in the future, and stations from the Palouse DRPS, where additional land is obtained to expand the RSDM along north portion of Meridian Road.

In conclusion, it has been proposed to add a temporary lining to the existing channel to restore vegetation and depth associated with the DRPS flows. This analysis has been the Appendix.

and Bent Grass development re-routed flows

Page 8 of 12


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and Bent Grass development re-routed flows

9 (6)


† In Appendix C for the future culverts and roadside channel.

State the calculated DBPS/FEMA flows entering the north property line and channel.

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**Date:** 2/23/2021 1:05:41 PM  
**Author:** dsdrice  
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State the calculated/DBPS/FEMA flows entering the north property line and channel.

Since this pr  
control BMP  
active area

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**Date:** 2/23/2021 12:44:38 PM  
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Delete

**How Specific and Other Source Control BMPs**  
Any activities that disturb earth with the roots and grates, the potential use of source control BMPs, such as, will be minimized through source grates, buffers and other source control BMPs, and public notice.


**Address the commercial zone areas in Barren Creek East**  
Address all ECOM 17.2.A requirements for each step above)

**age Conditions**

DE


systems (COM 17.2.B) are as described under Eutrophication Control Conditions.

and (COM 17.2.C) are as described under "Nutrient" discharge point, or which is taken out of the "Barren Creek" north of Barren Creek East and just west of the Barren Creek "source" point will replace the current implementation point for the "Barren Creek" implementation under the "Watershed" category of the Barren Creek Development and Management Plan. This plan will need to be coordinated to accommodate the re-sited

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Address the commercial zoned areas in Bent Grass East. (address all ECM I.7.2.A requirements for each step above)

[illegible]

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Address what size of storm drain would be required to convey flows to Meridian Road if the sites aren't all raised to be able to drain into BG Meadows Drive.

channel w  
0.30%. Tr

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0.30%


could need to be built to carry these future  
s Drive that will develop in the future will need to  
See comment letter.  
ation, the lateral right-of-way will need to be replaced  
have a 15' wide bottom channel with 4:1 sides  
will result in a flow depth of 5' 10" and velocity of  
in the existing main channel will be reduced with a  
built when any development west of Meridian  
is developed. It is anticipated that the existing  
accommodate the new development. The new  
17' wide channel and a longitudinal slope of  
of 4.8 ft/s.

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**Author:** dsdrice  
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See comment letter.


10 (2)

Describe the DP, total flows and  
design of the culverts under Bent  
Grass Meadows Drive.  
1. DP10 is the site of the existing culvert under Bent  
Grass Meadows Drive. The culvert is a 12" x 12" pipe  
with a flow depth of 5' 10" and velocity of 4.8 ft/s.  
2. DP10 is the site of the proposed culvert under Bent  
Grass Meadows Drive. The culvert is a 12" x 12" pipe  
with a flow depth of 5' 10" and velocity of 4.8 ft/s.  
3. DP10 is the site of the proposed culvert under Bent  
Grass Meadows Drive. The culvert is a 12" x 12" pipe  
with a flow depth of 5' 10" and velocity of 4.8 ft/s.

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**Date:** 2/23/2021 1:08:02 PM  
**Author:** dsdrice  
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Describe the DP, total flows and design of the  
culverts under Bent Grass Meadows Drive.


Describe the swale concept along the west and  
south property lines and culverts under Bent  
Grass Meadows Drive.  
1. DP10 is the site of the proposed culvert under Bent  
Grass Meadows Drive. The culvert is a 12" x 12" pipe  
with a flow depth of 5' 10" and velocity of 4.8 ft/s.  
2. DP10 is the site of the proposed culvert under Bent  
Grass Meadows Drive. The culvert is a 12" x 12" pipe  
with a flow depth of 5' 10" and velocity of 4.8 ft/s.

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Describe the swale concept along the west and  
south property lines and culverts under Bent  
Grass Meadows Drive.


12 (2)

provide current flows for comparison  
1. DP10 is the site of the proposed culvert under Bent  
Grass Meadows Drive. The culvert is a 12" x 12" pipe  
with a flow depth of 5' 10" and velocity of 4.8 ft/s.  
2. DP10 is the site of the proposed culvert under Bent  
Grass Meadows Drive. The culvert is a 12" x 12" pipe  
with a flow depth of 5' 10" and velocity of 4.8 ft/s.

**Subject:** Callout  
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**Date:** 2/23/2021 1:02:29 PM  
**Author:** dsdrice  
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provide current flows for comparison

Provide a description of the overall areas that drain  
to each design point on the channel down to  
Woodmen Road.  
1. DP10 is the site of the proposed culvert under Bent  
Grass Meadows Drive. The culvert is a 12" x 12" pipe  
with a flow depth of 5' 10" and velocity of 4.8 ft/s.  
2. DP10 is the site of the proposed culvert under Bent  
Grass Meadows Drive. The culvert is a 12" x 12" pipe  
with a flow depth of 5' 10" and velocity of 4.8 ft/s.


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Provide a description of the overall areas that drain  
to each design point on the channel down to  
Woodmen Road.

needs to be addressed in the MDDP also, conflicts with the next sentence


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el will be addressed


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describe how many

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Address the main channel (RWT 210), DBPS recommendations, MDDP recommendations and differences from the DBPS. Mention the existing downstream agreements that the Bent Grass Metro District has agreed to maintain the channel. Address funding, responsibilities of each development parcel and metro district and proposed timing/phasing of construction.

**Subject:**  
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Analysis of the existing channel shows that it is stable in its current state. Any improvements performed as part of the adjacent development will address easements and/or drainage tracts as development occurs

clarify per  
comments above

clarify per comments above

road & Future Hydrology Modeling (HDC-HMS)

[illegible]

The Falcon DBPS surveyed the ponds; address any discrepancies.

a facilities. They will be maintained by the Bert Gross if future CBPS construction improvements and upon the Board of channels will then be owned and maintained by El Paso County as public Right-of-Way.

specify reaches  
(RWT 204 and 210)

agement Agency (FEMA) Flood Insurance Rate Map number 018, there is no floodplain in the project area. A copy of the FEMA

specify reaches (RWT 204 and 210)

3 has 2-year storm listed as 27 cfs and 100-year storm as 730 cfs. (3.8 cfs for the 2 and 100-year events respectively)

MNI release rates 30.5 for the 2-year storm and 799.4 cfs for the 100-year storm. The release rates listed as 32 cfs for the 2-year storm and 820 cfs for the 100-year storm are based on a design of 1.5 cfs and 20.6 cfs for the 2 and 100-year events, respectively.

**Maintenance** — diversion (?)

proposed **channels** are to be private facilities. They will be maintained by the Metropolitan District. When completion of future DBPS construction imparts, Commissioners acceptance the channels will then be owned and operated by the Metropolitan District. The Metropolitan District will be responsible for all drainage facilities within the public Right-of-Way.

### Wetlands Mitigation

diversion (?)

Address the whole development

development  
 nent Agency (FEMA) Flood Insurance Rate Map num  
 here is no floodplain in the project area. A copy of the F

signation is only the RWT210 and RWT204 portions of the model, RWT202 is unmapped since it is the larger contributor

## Address the whole development

is no fl

Doesn't make sense. WQ will be required for all development and based on the diversion, detention will be required upstream of Bent Grass Meadows Drive.

address the channel design and district/developer construction and maintenance commitments

verify with channel design

(needs to be verified based on platted areas)

see comment letter

Provide conceptual channel plan and DBPS details for RWT 210





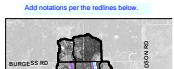
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Replace Figure 3-13 (with prev. redlines) and add 3-12 if desired



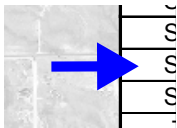
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**Color:** ■  
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**Page Label:** 29

Replace Figure 3-13 (with prev. redlines) and add 3-12 if desired

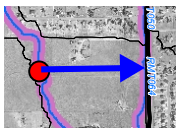


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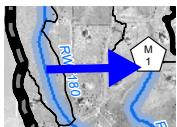
Add notations per the redlines below.



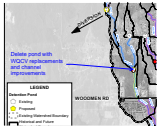
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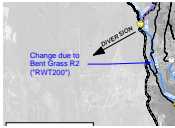



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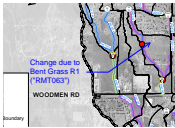
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**Page Index:** 31  
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Delete pond with WQCV replacements and channel improvements



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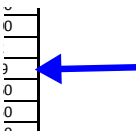
Change due to Bent Grass R2 ("RWT200")




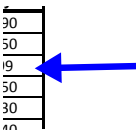
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**Date:** 2/23/2021 5:03:51 PM  
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Change due to Bent Grass R1 ("RMT063")

34 (2)



**Subject:** Arrow  
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108 (1)

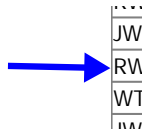
Add label - Future 100-year storm


Drainage Area (sq ft)	Peak Discharge (cfs)	Time of Peak
0.0671383	41.9	01 Jan 2011 08:21
0.0671383	41.9	01 Jan 2011 08:21

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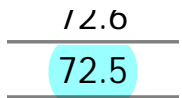
Add label - Future 100-year storm


109 (1)



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**Page Index:** 109  
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110 (2)



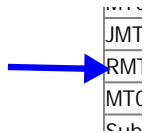
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72.5

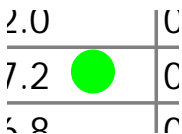



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111 (2)



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**Author:** dsdrice  
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117 (1)

Add label - Future 5-year storm

Drainage Area (sq ft)	Peak Discharge (cfs)	Time of Peak
10671381	16.3	8/14/2011 10:23
10671381	16.3	8/14/2011 10:23

**Subject:** Text Box  
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Add label - Future 5-year storm


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127 (1)

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[Add label - Future 2-year storm](#)

Drainage Area (MG)	Peak Discharge (CFS)	Time of Peak
0.0671383	4.4	01Jan2011, 06:25
0.0671383	4.4	01Jan2011, 06:25

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**Author:** dsdrice  
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Add label - Future 2-year storm


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144 (1)

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[Add label - Future 2-year storm](#)

**Subject:** Text Box  
**Page Index:** 144  
**Date:** 2/23/2021 5:08:08 PM  
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Provide latest plans and copy of Falcon Marketplace pond calcs or summary


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149 (2)

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[Add label - Future 100-year storm](#)

Drainage Area (MG)	Peak Discharge (CFS)	Time of Peak
0.0671383	41.9	01Jan2011, 06:21
0.0671383	41.9	01Jan2011, 06:21

**Subject:** Text Box  
**Page Index:** 149  
**Date:** 2/23/2021 11:16:39 AM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 149

Add label - Future 100-year storm

---

**Subject:** Text Box  
**Page Index:** 149  
**Date:** 2/23/2021 11:25:02 AM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 149

Are these sheets duplicates?


---

158 (1)

---

[Add label - Future 5-year storm](#)

Drainage Area (MG)	Peak Discharge (CFS)	Time of Peak
0.0671383	10.3	01Jan2011, 06:23

**Subject:** Text Box  
**Page Index:** 158  
**Date:** 2/23/2021 11:16:03 AM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 158

Add label - Future 5-year storm


---

168 (1)

---

[Add label - Future 2-year storm](#)

Drainage Area (MG)	Peak Discharge (CFS)	Time of Peak
0.1000000	9.1	01Jan2011, 0

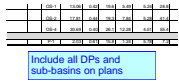
**Subject:** Text Box  
**Page Index:** 168  
**Date:** 2/23/2021 11:15:51 AM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 168

Add label - Future 2-year storm


---

182 (1)

---



Include all DPs and sub-basins on plans

**Subject:** Text Box  
**Page Index:** 182  
**Date:** 2/23/2021 5:12:07 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 182

Include all DPs and sub-basins on plans

---

261 (1)

---

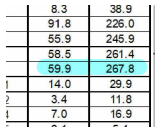



**Subject:** Highlight  
**Page Index:** 261  
**Date:** 2/23/2021 10:18:00 AM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 261

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325 (5)

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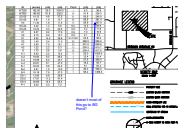



**Subject:**  
**Page Index:** 325  
**Date:** 2/23/2021 5:21:44 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 325



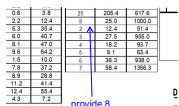
**Subject:** Callout  
**Page Index:** 325  
**Date:** 2/23/2021 5:22:45 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 325

25?




**Subject:** Callout  
**Page Index:** 325  
**Date:** 2/23/2021 5:26:27 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 325

doesn't most of this go to BG Pond?



provide 8

**Subject:** Callout  
**Page Index:** 325  
**Date:** 2/23/2021 5:26:35 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 325

provide 8

OS-2	17.81	11.2	41.4
OS-4	30.69	12.4	55.4
PS-1	2.93	4.3	7.2

(values were not cross-checked against plans and calculations)

**Subject:** Text Box  
**Page Index:** 325  
**Date:** 2/23/2021 5:27:09 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 325

(values were not cross-checked against plans and calculations)

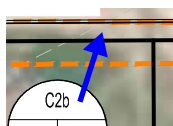
327 (1)



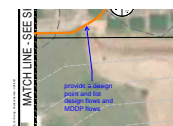
**Subject:** Callout  
**Page Index:** 327  
**Date:** 2/22/2021 5:56:36 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 327

label Q5 and Q100

328 (8)



**Subject:** Arrow  
**Page Index:** 328  
**Date:** 2/22/2021 5:53:56 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 328



**Subject:** Callout  
**Page Index:** 328  
**Date:** 2/22/2021 5:58:16 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 328

provide a design point and list design flows and MDDP flows




**Subject:** Callout  
**Page Index:** 328  
**Date:** 2/22/2021 5:59:21 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 328

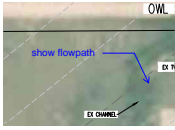
Label this and show the complete flowpath




**Subject:**  
**Page Index:** 328  
**Date:** 2/22/2021 6:26:18 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 328




**Subject:**  
**Page Index:** 328  
**Date:** 2/22/2021 6:26:58 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 328



**Subject:** Callout  
**Page Index:** 328  
**Date:** 2/22/2021 6:27:19 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 328


show flowpath



**Subject:** Text Box  
**Page Index:** 328  
**Date:** 2/23/2021 5:29:43 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 328

Provide sub-basins and DPs for all Bent Grass development



**Subject:** Callout  
**Page Index:** 328  
**Date:** 2/23/2021 5:30:11 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 328


Label pond and outfall

---

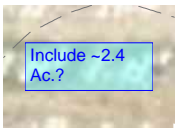
331 (2)


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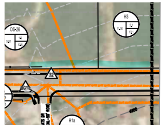
**Subject:** Callout  
**Page Index:** 331  
**Date:** 2/22/2021 8:16:00 AM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 331


Is there a stub to the west here?

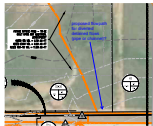



**Subject:** Text Box  
**Page Index:** 331  
**Date:** 2/23/2021 5:33:12 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 331

Include ~2.4 Ac.?




**Subject:**  
**Page Index:** 332  
**Date:** 2/22/2021 6:31:29 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 332

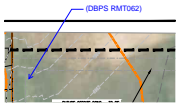



**Subject:** Callout  
**Page Index:** 332  
**Date:** 2/22/2021 6:32:12 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 332

proposed flowpath for diverted detained flows (pipe or channel)?




**Subject:**  
**Page Index:** 332  
**Date:** 2/23/2021 5:39:18 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 332




**Subject:** Callout  
**Page Index:** 332  
**Date:** 2/23/2021 5:39:33 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 332

(DBPS RMT062)



**Subject:**  
**Page Index:** 333  
**Date:** 2/22/2021 6:30:02 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 333




**Subject:** Callout  
**Page Index:** 333  
**Date:** 2/23/2021 5:35:06 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 333

Show and label future road connection






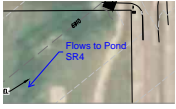
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**Subject:**  
**Page Index:** 333  
**Date:** 2/23/2021 5:37:01 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 333




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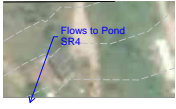
**Subject:**  
**Page Index:** 333  
**Date:** 2/23/2021 5:40:44 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 333




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**Subject:** Callout  
**Page Index:** 333  
**Date:** 2/23/2021 5:40:51 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 333

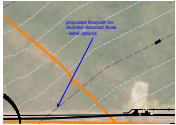
Flows to Pond SR4




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**Subject:** Callout  
**Page Index:** 333  
**Date:** 2/23/2021 5:41:01 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 333

Flows to Pond SR4



---

**Subject:** Callout  
**Page Index:** 333  
**Date:** 2/23/2021 5:43:34 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 333


proposed flowpath for diverted detained flows -  
label options

---

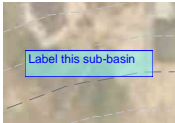
334 (1)




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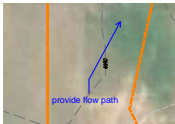
**Subject:** Callout  
**Page Index:** 334  
**Date:** 2/22/2021 5:38:57 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 334


something is wrong with the minor contours



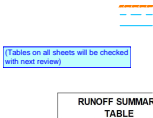
**Subject:** Text Box  
**Page Index:** 335  
**Date:** 2/22/2021 5:35:57 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 335


Label this sub-basin



**Subject:** Callout  
**Page Index:** 335  
**Date:** 2/22/2021 5:36:49 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 335

provide flow path



**Subject:** Text Box  
**Page Index:** 335  
**Date:** 2/23/2021 5:36:21 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 335

(Tables on all sheets will be checked with next review)