


# ENG-SF22041-R1-FDR.pdf Markup Summary


1 (2)



**Subject:** Callout  
**Page Index:** 1  
**Date:** 1/27/2023 10:23:44 AM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
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**Page Label:** 1


041



**Subject:** Stormwater Comments Color  
**Page Index:** 1  
**Date:** 1/30/2023 9:00:37 AM  
**Author:** dotprete  
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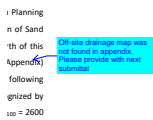
4 (1)


44.578-ac

**Subject:**  
**Page Index:** 4  
**Date:** 1/27/2023 10:25:57 AM  
**Author:** dsdrice  
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578

5 (1)




**Subject:** Callout  
**Page Index:** 5  
**Date:** 1/30/2023 2:02:43 PM  
**Author:** CDurham  
**Color:**   
**Layer:**  
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**Page Label:** 5

Off-site drainage map was not found in appendix.  
Please provide with next submittal

6 (1)



**Subject:** Callout  
**Page Index:** 6  
**Date:** 1/27/2023 10:49:11 AM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** 6

Map not found?

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7 (1)

$Q_{10} = 4 \text{ cfs}$ ,  $Q_{200} = 14 \text{ cfs}$  consists of 5.7 Ac. of the remain  
ad (contingency property along with some near part of (total  
flows in a westerly direction towards the secondary emerge  
site stock pond currently captures this tributary area.

sediment basins?

**Subject:** Callout  
**Page Index:** 7  
**Date:** 1/27/2023 10:56:18 AM  
**Author:** dsdrice  
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**Layer:**  
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**Page Label:** 7

sediment basins?

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9 (2)

way, a Type II storm manhole will be installed to  
and then south down Antelope Ravine Dr. These  
sd for in the previous Filing 1 approved drainage  
cfs). [How are these flows treated for water quality?](#)

$Q_{10} = 4 \text{ cfs}$  represents developed flows from Basin  
front yards that then travel as curb and gutter f

**Subject:** Text Box  
**Page Index:** 9  
**Date:** 1/30/2023 9:07:07 AM  
**Author:** dotprete  
**Color:** ■  
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**Page Label:** 9

how are these flows treated for water quality?

flows from the front yards that then travel as curb  
At this location a 5' Type R Sump inlet will be ins  
sd 100-yr. developed flows. An 18" RCP storm pi  
eam. [How are these flows treated for water quality?](#)

$Q_{10} = 5 \text{ cfs}$ ,  $Q_{200} = 21 \text{ cfs}$  represents developed fl  
5-2 (0.47 Ac.). These basins develop flows in a w

**Subject:** Text Box  
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**Date:** 1/30/2023 9:07:51 AM  
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**Page Label:** 9

how are these flows treated for water quality?

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10 (1)

let will be installed to completely capture both ti  
P storm pipe will then convey these flows furthe  
within lots 15-17 will be removed along with th  
ots. [How are these flows treated for water quality?](#)

$Q_{10} = 8 \text{ cfs}$  represents developed flows from Basin  
velop flows that travel as curb and gutter flow

**Subject:** Text Box  
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how are these flows treated for water quality?



**Subject:** Text Box  
**Page Index:** 14  
**Date:** 1/31/2023 1:14:42 PM  
**Author:** dotprete  
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**Page Label:** 14

Runoff Reduction Requirements for Basins G, H2, H2, and J:

In accordance with the MHFD, runoff reduction has vegetation requirements that have been overlooked in the past. Going forward the following will be required for runoff reduction:

- All RPA/SPA areas will need to be within a no build/drainage easement (or tract) and discussed in the maintenance agreement and O&M manual.
- RPA/SPA vegetation should be turf grass (from seed [provide appropriate seed mix] or sod). Turf grass vegetation should have a uniform density of at least 80%.
- Irrigation (temp or permanent) is necessary to establish sufficient vegetation and not just weeds.

- Show suitability of topsoil of RPA/SPA and steps for proper preparation of topsoil per recommendations in MHFD detail T-0 Table RR-3
- RPA/SPA limits must be shown on GEC Plans (not just FDR) so our SW inspectors and the QSM know that these areas are to remain pervious, vegetated (80%), and irrigated post-construction.
- For the roadways, provide a detail for the UIA:RPA interface that shows the recommended vertical drop of 4-inches to promote positive drainage.

- The Plat Note should read something like: The 25' rear setback is to be utilized for water quality runoff reduction. No lots shall have any impervious improvements constructed within the rear setback (i.e. patios, hardscape, gravel, raised garden beds, recreational facilities, etc.). Turf grass vegetation with a uniform density of at least 80% is required. In addition, the existing slope must be maintained in this setback.

asin other than the  
or and the associated  
it/rue to sheet flow to the  
enel. Please note WQ Exclusion I.7.1.B.9 for trails

**Subject:** Text Box  
**Page Index:** 14  
**Date:** 1/30/2023 9:42:57 AM  
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**Page Label:** 14

Please note WQ Exclusion I.7.1.B.9 for trails.

and design points west of Sand Creek:  
ments a 2.4 ac. portion of the proposed road lot 2 that will  
area discharge towards Sand Creek. Given the size of this  
in area introduced and desirable receiving pervious area, the  
reased WQCV within this basin. (See I.0-2007 Runoff  
rease

**Subject:** Text Box  
**Page Index:** 14  
**Date:** 1/31/2023 1:27:59 PM  
**Author:** dotprete  
**Color:** ■  
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**Page Label:** 14

This property is >2.5 acres and doesnt need WQ. You only need WQ for the north 1/2 of Arroya Lane and 1/2 Vollmer Road expansion (approximately 0.7ac). Consider removing the proposed rain garden 2 and using exclusion I.7.1.C.1 (which allows for 20% not to exceed 1 acre of the applicable development site area to not be captured).

and design points west of Sand Creek:  
ments a 2.4 ac. portion of the proposed road lot 2 that will  
area discharge towards Sand Creek. Given the size of this  
in area introduced and desirable receiving pervious area, the  
reased WQCV within this basin. (See I.0-2007 Runoff  
rease

**Subject:** Text Box  
**Page Index:** 14  
**Date:** 1/31/2023 1:10:08 PM  
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**Page Label:** 14

Basin J includes a portion of the road that needs to be discussed.

and design points west of Sand Creek:  
ments a 2.4 ac. portion of the proposed road lot 2 that will  
area discharge towards Sand Creek. Given the size of this  
in area introduced and desirable receiving pervious area, the  
reased WQCV within this basin. (See I.0-2007 Runoff  
rease

15 (1)

tributary to the dual existing 30" RCP culverts. This is compared to the anticipated developed flow (Q<sub>100</sub> = 57 cfs). Thus, these facilities will contribute

How are these flows treated for water quality (FSD Pond 3)?

**Subject:** Text Box  
**Page Index:** 15  
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**Author:** dotprete  
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**Layer:**  
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**Page Label:** 15

how are these flows treated for water quality (FSD Pond 3)?

16 (2)

utilized in order to reduce the amount of impervious area. These features include but are not limited to: Site Planning and design to limit impervious area, minimize directly

**Subject:** Callout  
**Page Index:** 16  
**Date:** 1/31/2023 1:37:40 PM  
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runoff reduction RPAs and two existing FSDs?

be owned and maintained by the City of Right of Way. Access ramps are required for channel improvements and are located at the channel. **Indicate that remaining portions of channel (non-structural) will be maintained by metro district** needed as a floodplain preservation

**Subject:** Callout  
**Page Index:** 16  
**Date:** 1/31/2023 9:58:58 AM  
**Author:** CDurham  
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**Page Label:** 16

Indicate that remaining portions of channel (non-structural) will be maintained by metro district

18 (1)

of Engineers with necessary consultation. This report and documentation can be found **not found**

**Subject:** Callout  
**Page Index:** 18  
**Date:** 1/30/2023 11:48:01 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
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**Page Label:** 18

not found

25 (2)

(Per El Paso County Percolation Test) 2.60 Ac. x 2% = 0.052 in  
**0.052**  
**Fees for Open Space/Tr**

**Subject:** Callout  
**Page Index:** 25  
**Date:** 1/31/2023 2:28:23 PM  
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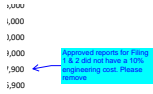
0.052

CLASSIC CONSULTING

**Subject:** Callout  
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If average lot size is 1/2 acre 25% may be used

27 (3)



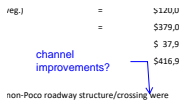
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**Date:** 1/31/2023 10:01:26 AM  
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**Page Label:** 27

Approved reports for Filing 1 & 2 did not have a 10% engineering cost. Please remove



**Subject:** Callout  
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**Page Label:** 27

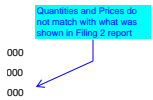
Until this is vetted or improvements approved in a DBPS amendment, \$95,121 out of \$157,497 can be offset.



**Subject:** Callout  
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**Page Label:** 27

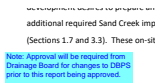
channel improvements?

28 (2)



**Subject:** Callout  
**Page Index:** 28  
**Date:** 1/30/2023 3:29:44 PM  
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**Layer:**  
**Space:**  
**Page Label:** 28

Quantities and Prices do not match with what was shown in Filing 2 report



**Subject:** Text Box  
**Page Index:** 28  
**Date:** 1/31/2023 10:00:11 AM  
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**Color:** ■  
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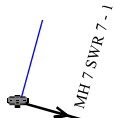
Note: Approval will be required from Drainage Board for changes to DBPS prior to this report being approved.

78 (1)

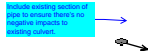


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**Page Index:** 78  
**Date:** 1/31/2023 2:05:20 PM  
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**Page Label:** 47

28%? Please confirm

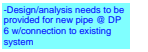


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**Subject:** Callout  
**Page Index:** 94  
**Date:** 1/31/2023 9:00:26 AM  
**Author:** CDurham  
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**Layer:**  
**Space:**  
**Page Label:** 63

Include existing section of pipe to ensure there's no negative impacts to existing culvert.



**Subject:** Text Box  
**Page Index:** 94  
**Date:** 1/31/2023 9:13:55 AM  
**Author:** CDurham  
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**Page Label:** 63

-Design/analysis needs to be provided for new pipe @ DP 6 w/connection to existing system

Flow	Velocity (fps)	Friction Loss (ft/100 ft)	Flow Coefficient	Flow Length (ft)	Non-Newtonian Loss (ft)	Comment
18.8	5.34	Supercritical	15.00	0.00	Velocity > 15 ft/s	
12.19	3.75	Supercritical	15.00	0.00		

**Subject:** Callout  
**Page Index:** 98  
**Date:** 1/30/2023 5:34:38 PM  
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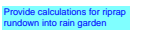
Velocity does not meet ECM Section 3.3.1.J.8 requirements (Max 18 fps velocity). Please revise

1.3	7242.10	0.013	1.
5.8	7222.81	0.013	1.
1.0	7222.27	0.013	1.



**Subject:** Callout  
**Page Index:** 98  
**Date:** 1/31/2023 9:08:00 AM  
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**Space:**  
**Page Label:** 67

Inv does not match with CD's



**Subject:** Text Box  
**Page Index:** 108  
**Date:** 1/31/2023 9:21:44 AM  
**Author:** CDurham  
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**Layer:**  
**Space:**  
**Page Label:** 77

Provide calculations for riprap rundown into rain garden

Provide calculations for riprap protection at all storm outlet locations

**Subject:** Text Box  
**Page Index:** 108  
**Date:** 1/31/2023 12:14:04 PM  
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**Color:** ■  
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**Page Label:** 77

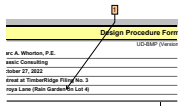
Provide calculations for riprap protection at all storm outlet locations

Provide roadside ditch/swale calculations

**Subject:** Engineer  
**Page Index:** 108  
**Date:** 1/31/2023 2:07:06 PM  
**Author:** dotprete  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 77

Provide roadside ditch/swale calculations

109 (2)



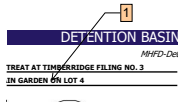
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**Page Label:** 78

1

$I_a = 22.4\%$

**Subject:** Engineer  
**Page Index:** 109  
**Date:** 1/31/2023 2:07:22 PM  
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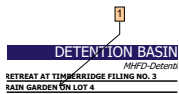
111 (1)



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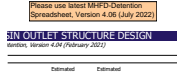
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113 (2)



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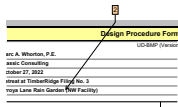
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Subject: Text Box  
 Page Index: 113  
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Please use latest MHFD-Detention Spreadsheet, Version 4.06 (July 2022)

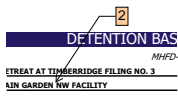
117 (1)



Subject: Callout  
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2

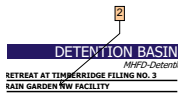
119 (1)



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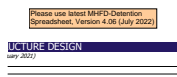
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121 (2)



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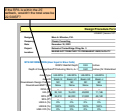
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Subject: Text Box  
 Page Index: 121  
 Date: 1/31/2023 12:36:11 PM  
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 Page Label: 90

Please use latest MHFD-Detention Spreadsheet, Version 4.06 (July 2022)

125 (2)



Subject: Callout  
 Page Index: 125  
 Date: 1/31/2023 1:07:50 PM  
 Author: dotprete  
 Color: ■  
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 Page Label: 94

If the RPA is within the 25' setback, wouldn't the total area be 22,500SF?

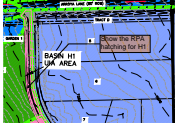




**Subject:** Callout  
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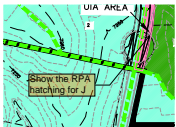
If the RPA is within the 25' setback, wouldn't the total area be 13,750SF?

126 (7)



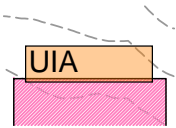
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**Page Index:** 126  
**Date:** 1/31/2023 1:11:04 PM  
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**Page Label:** [1] Model

Show the RPA hatching for H1



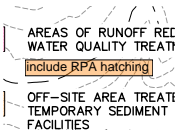
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**Page Index:** 126  
**Date:** 1/31/2023 1:10:52 PM  
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**Page Label:** [1] Model

Show the RPA hatching for J



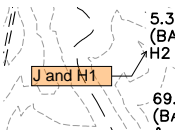
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**Page Label:** [1] Model

UIA



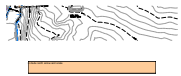
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**Date:** 1/31/2023 1:04:41 PM  
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**Page Label:** [1] Model

include RPA hatching



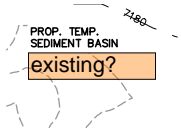
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J and H1



**Subject:** Engineer  
**Page Index:** 126  
**Date:** 1/31/2023 1:02:00 PM  
**Author:** dotprete  
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include north arrow and scale

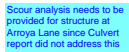


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**Page Index:** 126  
**Date:** 1/31/2023 1:02:10 PM  
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**Page Label:** [1] Model

existing?

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### 156 (1)

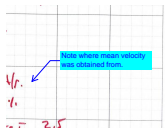


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**Date:** 1/31/2023 12:53:20 PM  
**Author:** CDurham  
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**Space:**  
**Page Label:** 124

Scour analysis needs to be provided for structure at Arroya Lane since Culvert report did not address this

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### 170 (1)

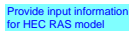


**Subject:** Callout  
**Page Index:** 170  
**Date:** 1/30/2023 1:56:31 PM  
**Author:** CDurham  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 138

Note where mean velocity was obtained from.

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### 171 (1)

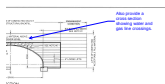


**Subject:** Text Box  
**Page Index:** 171  
**Date:** 1/30/2023 1:50:27 PM  
**Author:** CDurham  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 139

Provide input information for HEC RAS model

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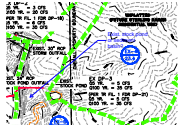
### 195 (1)



**Subject:** Callout  
**Page Index:** 195  
**Date:** 1/31/2023 3:25:50 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 163

Also provide a cross section showing water and gas line crossings.

205 (4)



**Subject:** Callout  
**Page Index:** 205  
**Date:** 1/27/2023 10:56:54 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

Exist. stock pond or sediment basin?

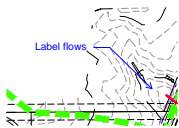


**Subject:** Callout  
**Page Index:** 205  
**Date:** 1/27/2023 11:01:23 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

basin line?



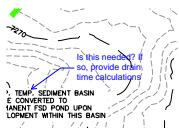
**Subject:**  
**Page Index:** 205  
**Date:** 1/27/2023 11:00:50 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1



**Subject:** Callout  
**Page Index:** 205  
**Date:** 1/27/2023 11:03:18 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

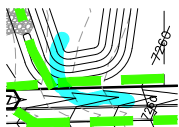
Label flows

206 (11)

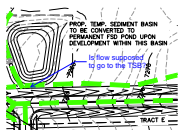


**Subject:** Callout  
**Page Index:** 206  
**Date:** 1/27/2023 10:42:21 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

Is this needed? If so, provide drain time calculations



**Subject:**  
**Page Index:** 206  
**Date:** 1/27/2023 10:31:17 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1



**Subject:** Callout  
**Page Index:** 206  
**Date:** 1/27/2023 10:31:40 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

Is flow supposed to go to the TSB?



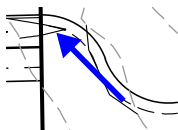
**Subject:** Callout  
**Page Index:** 206  
**Date:** 1/27/2023 10:37:31 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

Show emergency overflow swales and easements if needed



**Subject:** Callout  
**Page Index:** 206  
**Date:** 1/27/2023 10:38:56 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

Show maintenance access roads



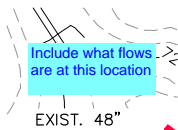
**Subject:** Arrow  
**Page Index:** 206  
**Date:** 1/27/2023 10:43:22 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

define



**Subject:** Engineer  
**Page Index:** 206  
**Date:** 1/30/2023 9:51:00 AM  
**Author:** dotprete  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

Include what flows are at this location



**Subject:** Text Box  
**Page Index:** 206  
**Date:** 1/30/2023 12:43:20 PM  
**Author:** CDurham  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1



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**Subject:** Callout  
**Page Index:** 206  
**Date:** 1/30/2023 1:10:47 PM  
**Author:** CDurham  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

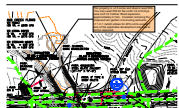
Label drainage easement



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**Subject:** Callout  
**Page Index:** 206  
**Date:** 1/31/2023 11:38:01 AM  
**Author:** CDurham  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

Provide calculations for roadside ditches



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**Subject:** Text Box  
**Page Index:** 206  
**Date:** 1/31/2023 1:36:40 PM  
**Author:** dotprete  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

This property is >2.5 acres and doesnt need WQ. You only need WQ for the north 1/2 of Arroya Lane and 1/2 Vollmer Road expansion (approximately 0.7ac). Consider removing the proposed rain garden 2 and using exclusion I.7.1.C.1 (which allows for 20% not to exceed 1 acre of the applicable development site area to not be captured).