

20-118048-LD_SD Report.pdf Markup Summary

roseh (8)

Subject: Cloud+
Page Label: 7
Lock: Unlocked
Status:
Checkmark: Unchecked
Author: roseh
Date: 2/2/2021 1:05:47 PM
Color:
Depth:

20.55 ac onsite.
predeveloped map lists 19.6 ac

The table has been revised to show accurate areas.

Subject: Callout
Page Label: 7
Lock: Unlocked
Status:
Checkmark: Unchecked
Author: roseh
Date: 2/2/2021 1:06:16 PM
Color:
Depth:

0.27 ac on map

0.03 acres has been removed because pervious concrete will be used. A narrative has been added explaining this. If still an issue, final report will reflect what is desired by the review engineer.

Subject: Callout
Page Label: 7
Lock: Unlocked
Status:
Checkmark: Unchecked
Author: roseh
Date: 2/2/2021 1:09:31 PM
Color:
Depth:

Adjust basins. Lone Oak in 1B contributes to the Offsite North basin.

A final design has not been completed to date and is not know if runoff can be conveyed to a drainage system. The flow rate from this area has been removed from the allowable rate in the preliminary analysis. This demonstrates the detention system is feasible and meets the requirements for a preliminary drainage report. I believe that is the intent of a preliminary SWMP.

Subject: Text Box
Page Label: 9
Lock: Unlocked
Status:
Checkmark: Unchecked
Author: roseh
Date: 2/2/2021 1:29:00 PM
Color:
Depth:

Based on sheet P302, much of the basin is collected and discharged to the channel downstream of the detention system.

I do not understand the thought you are trying to convey. Runoff from Phase 1 and Lone Oak will be conveyed to the historical outlet channel. I believe it is identified as Champion Swale. The final SWMP will have a detail description explaining this that meets Public Works standards.

Subject: Callout
Page Label: 6
Lock: Unlocked
Status:
Checkmark: Unchecked
Author: roseh
Date: 2/2/2021 12:55:19 PM
Color:
Depth:

Provide documentation to support this low developed time. Minimum in TR-55 is 6 min.

This is a preliminary SWMP to demonstrate a storm system can be designed for the site. There has been no design work for the conveyance system to calculate an accurate time. An assumed time-of-concentration of 10-minutes is a very good assumption. I would like to note that the difference in flow rates for the two times is insignificant and will not have a negative impact on the system.

on the design parameters, the last of the 2 year through the 100-yr storm event is controlled at 0.3, 0.4, 0.5 and 0.7 ft. The release rates and events were generated from the HydroCAD software, which can be seen in the comments for the storm events.

Need to address the driveways and sidewalk along Devon Ave in Basin 2B are managed.

Subject: Text Box
Page Label: 9
Lock: Unlocked
Status:
Checkmark: Unchecked
Author: roseh
Date: 2/2/2021 2:21:35 PM
Color: ■
Depth:

Need to address the driveways and sidewalk along Devon Ave in Basin 2B are managed.

Driveways will be pervious concrete. Runoff will shown to be addressed in the engineering design phase. Note that runoff has been remove in the preliminary SWMP as a place holder and to demonstrate the system will have the capacity to handle runoff.

The manufactured treatment devices will be CONTEC using ZPS media. The system is designed in accordance City of Salem design standards.

Identify 100-yr storm escape route through from this site per PWDS 4A.2

2

Subject: Text Box
Page Label: 4
Lock: Unlocked
Status:
Checkmark: Unchecked
Author: roseh
Date: 2/2/2021 2:46:09 PM
Color: ■
Depth:

Identify 100-yr storm escape route through/from the site per PWDS 4A.2

I do not know that routes as of yet and it will be addressed in the final SWMP. This is a preliminary SWMP demonstrating we have the capacity to serve the development. I believe that is the intent of a preliminary SWMP; to show development is feasible and will meet City standards.

NO. OF TREATMENT DEVICES	1000
WATER	
can be used for each treatment device.	
0.3	
0.4	
0.5	
0.7	

As this is a pre-developed time of concentration is appropriate to use a pre-developed roughness, either 0.3 or 0.4 (applies to both basins Tc calcs)

Subject: Callout
Page Label: 88
Lock: Unlocked
Status:
Checkmark: Unchecked
Author: roseh
Date: 2/2/2021 3:19:13 PM
Color: ■
Depth:

As this is a pre-developed time of concentration is appropriate to use a pre-developed roughness, either 0.3 or 0.4 (applies to both basins Tc calcs)

The Manning's runoff coefficient used is from Table 4D-4 in Section 4D.4. The surface type is Undeveloped: Meadow, Pasture, or Farm. The parcel of land is not Woodland and Forest or Mixed. The manual doesn't even define Mixed and I'm not sure what it equates to. The coefficient used accurately reflects the conditions on site to calculate a reasonable time of concentration and is based on sound engineering judgment. This is even more critical now that City standards requires the 25-year and 100-year storm events to be detained on site. Feel free to contact me if you wish to discuss this in greater detail.