0.00 0.000 **0.000**

14.891

100 0.005

78.00

2530 1.0 0.003

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EX-OFF2

SHEET NUMBER

EX-G

135.58

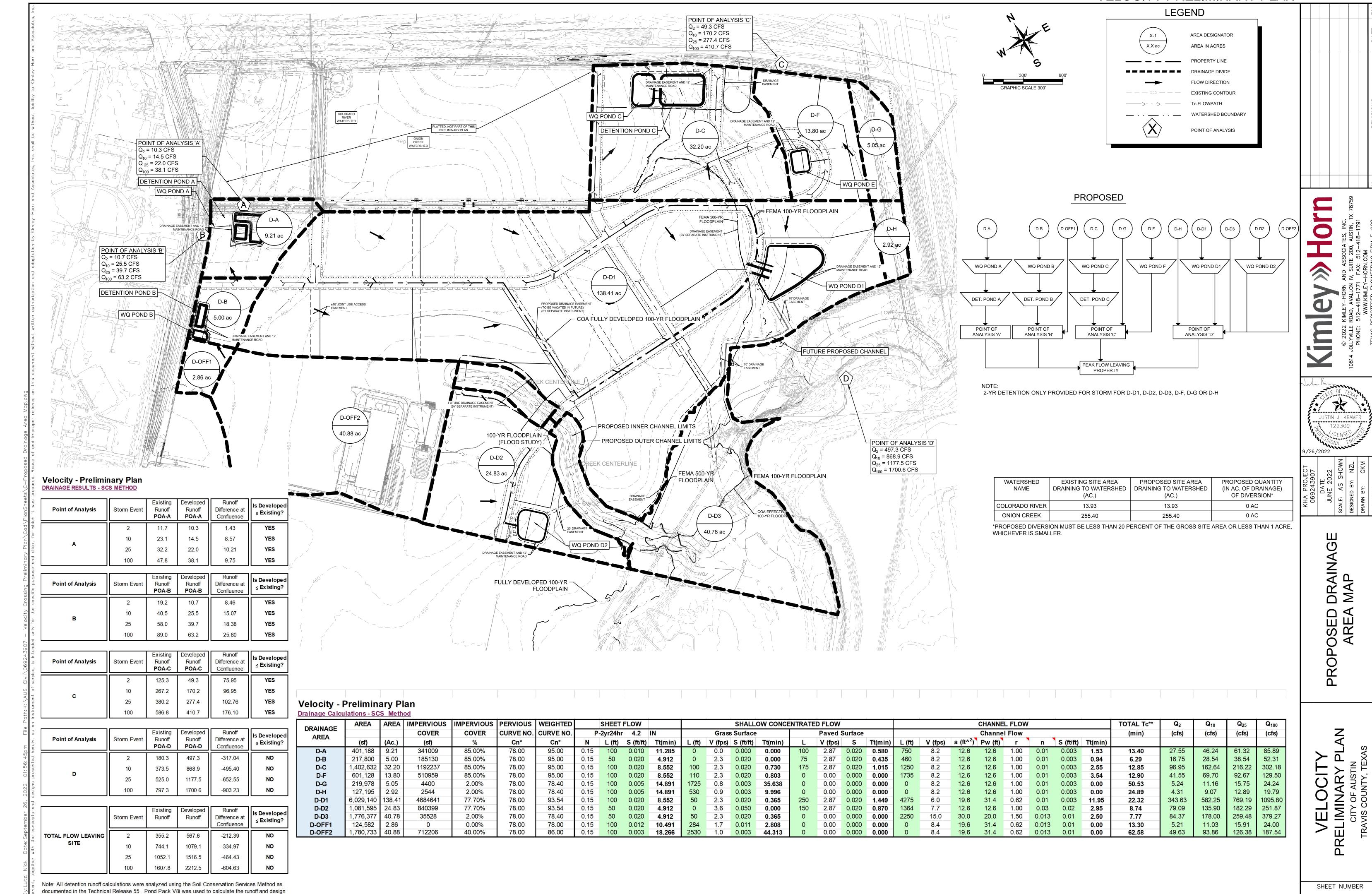
200.81

100.34

59.20

C8-2022-0112

VELOCITY PRELIMINARY PLAN

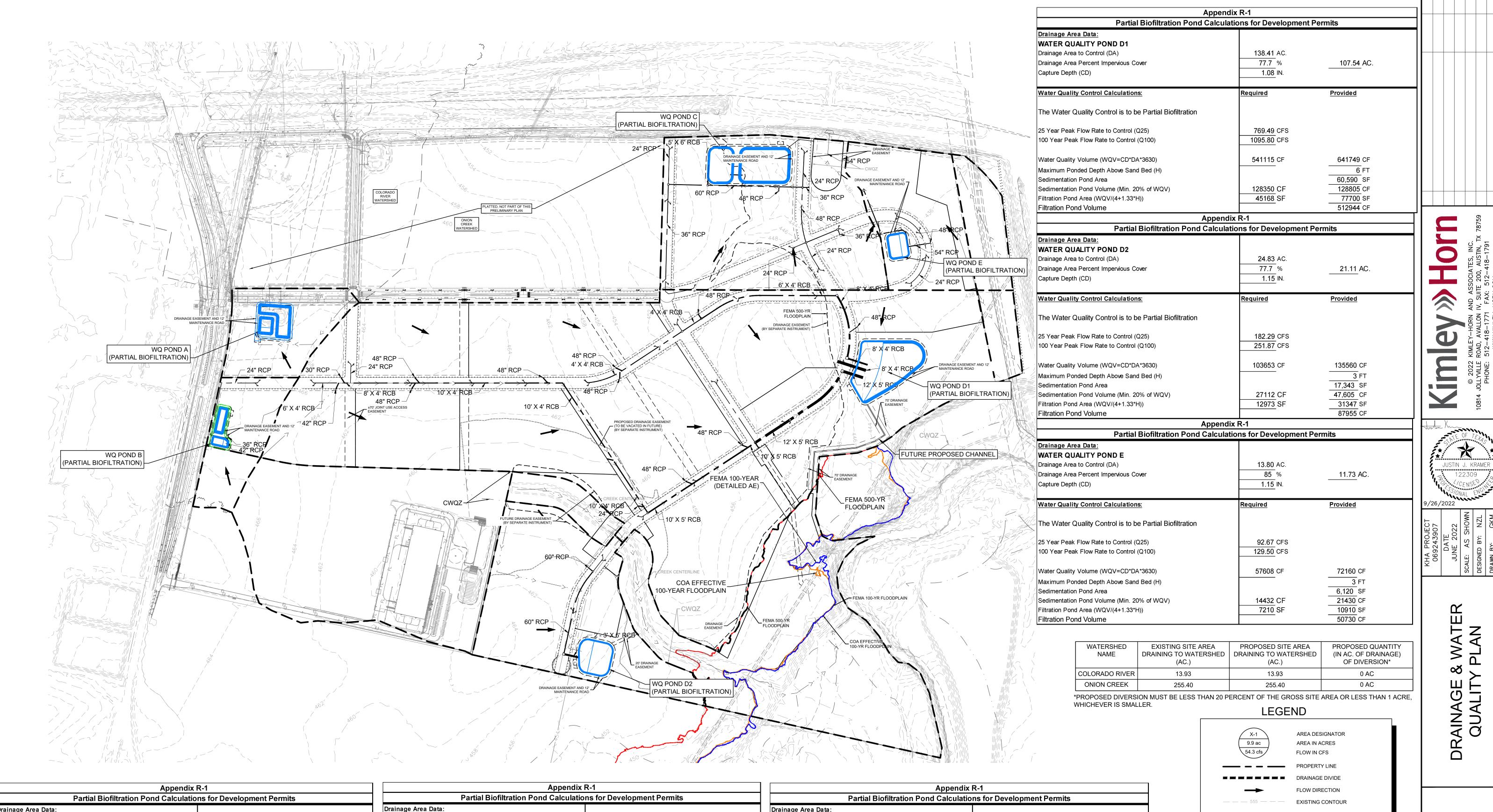


the pond volume and outlet structure.

EX-H

C8-2022-0112

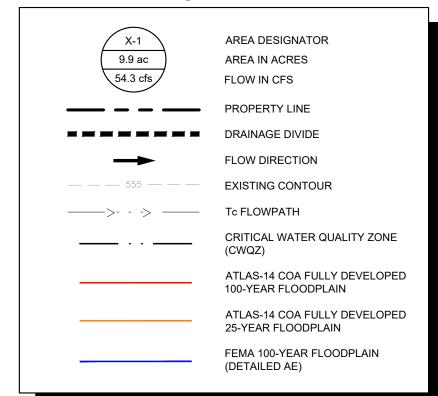
VELOCITY PRELIMINARY PLAN

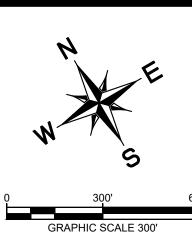


Appendix R-1					
Partial Biofiltration Pond Calculations for Development Permits					
Drainage Area Data:					
WATER QUALITY POND A					
Drainage Area to Control (DA)	9.21 AC.				
Drainage Area Percent Impervious Cover	85 %	7.83 AC.			
Capture Depth (CD)	1.15 IN.				
Water Quality Control Calculations:	Required	<u>Provided</u>			
The Water Quality Control is to be Partial Biofiltration					
25 Year Peak Flow Rate to Control (Q25)	61.32 CFS				
100 Year Peak Flow Rate to Control (Q100)	85.89 CFS				
Water Quality Volume (WQV=CD*DA*3630)	38447 CF	50930 CF			
Maximum Ponded Depth Above Sand Bed (H)		6 FT			
Sedimentation Pond Area		1,935 SF			
Sedimentation Pond Volume (Min. 20% of WQV)	10186 CF	19430 CF			
Filtration Pond Area (WQV/(4+1.33*H))	3209 SF	3515 SF			
Filtration Pond Volume		31500 CF			

Appendix R-1 Partial Biofiltration Pond Calculations for Development Permits				
WATER QUALITY POND B				
Drainage Area to Control (DA)	5.00 AC.			
Drainage Area Percent Impervious Cover	85.0 %	4.25 AC.		
Capture Depth (CD)	1.15 IN.			
Water Quality Control Calculations:	Required	<u>Provided</u>		
The Water Quality Control is to be Partial Biofiltration				
25 Year Peak Flow Rate to Control (Q25)	38.54 CFS			
100 Year Peak Flow Rate to Control (Q100)	52.31 CFS			
Water Quality Volume (WQV=CD*DA*3630)	20873 CF	21475 CF		
Maximum Ponded Depth Above Sand Bed (H)				
Sedimentation Pond Area		925 SF		
Sedimentation Pond Volume (Min. 20% of WQV)	4295 CF	6000 CF		
Filtration Pond Area (WQV/(4+1.33*H))	2240 SF	2040 SF		
Filtration Pond Volume		15475 CF		

Appendix R-1					
Partial Biofiltration Pond Calculations for Development Permits					
<u>Drainage Area Data:</u>					
WATER QUALITY POND C					
Drainage Area to Control (DA)	32.20 AC.				
Drainage Area Percent Impervious Cover	85 %	27.37 AC.			
Capture Depth (CD)	1.15 IN.				
Water Quality Control Calculations:	Required	<u>Provided</u>			
The Water Quality Control is to be Partial Biofiltration					
25 Year Peak Flow Rate to Control (Q25)	216.22 CFS				
100 Year Peak Flow Rate to Control (Q100)	302.18 CFS				
Water Quality Volume (WQV=CD*DA*3630)	134419 CF	169780 CF			
Maximum Ponded Depth Above Sand Bed (H)					
Sedimentation Pond Area		11,365 SF			
Sedimentation Pond Volume (Min. 20% of WQV)	33956 CF	52965 CF			
Filtration Pond Area (WQV/(4+1.33*H))	12621 SF	20390 SF			
Filtration Pond Volume		116815 CF			





AINAGE & QUALITY R

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EX-I

