



STORMWATER MANAGEMENT REPORT ADDENDUM 3
PHASE 1H
MAINSTREET NB REDEVELOPMENT PROJECT
NORTH BRUNSWICK TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY
JUNE 27, 2025

One Water Consulting LLC (One Water) has prepared this Stormwater Management Report Addendum for the MainStreet NB Redevelopment Project to address the reconfiguration of a central portion of the site, originally intended to include a hotel, surface parking, and portions of residential structures. The revised plan proposes the construction of residential buildings with associated driveways, internal roadways, and parking areas. One Water staff previously prepared the Stormwater Management Report for the MainStreet NB Redevelopment project (under employment of Omni Environmental LLC at the time), last revised February 2, 2012. This addendum evaluates the conformity of the proposed residential development layout with the previously approved stormwater management design.

INTRODUCTION

The reconfigured area is located in the central portion of the MainStreet NB site. It is bounded by Park Avenue to the north, Tenth Avenue to the east, Sunset Street to the south, and Grand Avenue to the west. These roadways were constructed during previous phases of the development. The proposed development area includes building footprints, internal access drives, walkways, hardscape, and landscaped areas associated with the eleven residential units.

DRAINAGE ANALYSIS

An area of interest (AOI) was delineated around the Phase 1H area for the purposes of this drainage analysis. The AOI is approximately 6.06 acres.

The post-developed drainage area boundaries from the 2012 Stormwater Management Report were used to determine the previously approved drainage areas within the AOI. Based on the previous drainage analysis, 4.14 of the AOI drained into Basin B (upstream) and 1.92 acres of the AOI drained to Basin C.

The land cover and AOI boundary for the Phase 1H drainage analysis is shown in Figure 1 in Attachment A. In the updated plan, 4.37 acres of the AOI drain to Basin B Upstream, and 1.69 acres drain to Basin C. Therefore, there will be minimal redistribution within the overall stormwater drainage patterns.

The amount of impervious cover was calculated within the AOI. Based on the previous drainage analysis, there was approximately 4.36 acres of impervious cover within the AOI. In the latest plan, there are approximately 4.59 acres of impervious cover within the AOI, 3.18 acres of which drain to Basin B, and 1.41 acres of which drain to Basin C. As a result, the updated plan increases impervious cover by only 0.23 acres. Note that Phase 1F had a 1.06-acre reduction in impervious coverage.

Table 1: AOI Impervious Area Summary

Basin B			
Land Use Type	AOI (2012)	AOI (Current)	Comparison
Impervious	2.69 acres	3.18 acres	0.49-acre increase
Pervious	1.45 acres	1.19 acres	0.26-acre reduction
Total	4.14 acres	4.37 acres	0.23-acre increase
Basin C			
Land Use Type	AOI (2012)	AOI (Current)	Comparison
Impervious	1.67 acres	1.41 acres	0.26-acre reduction
Pervious	0.25 acres	0.28 acres	0.03-acre increase
Total	1.92 acres	1.69 acres	0.23-acre reduction

Within Basin B, the total drainage area increases by 0.23 acres, from 4.14 acres to 4.37 acres. Impervious cover within this drainage area increases by 0.49 acres (from 2.69 to 3.18 acres), while pervious cover decreases by 0.26 acres (from 1.45 to 1.19 acres). Within Basin C, the total drainage area decreases by 0.23 acres, from 1.92 acres to 1.69 acres. Impervious cover decreases by 0.26 acres (from 1.67 to 1.41 acres), and the pervious cover increases by 0.03 acres (from 0.25 to 0.28 acres). Overall, this represents a net neutral change in total drainage area across the site, with a minor redistribution of runoff between Basin B Upstream and Basin C.

These changes are minimal relative to the overall drainage areas and are not expected to significantly affect stormwater runoff rates or volumes. Hydrologic modeling was updated to reflect these revisions, and the results confirm that water surface elevations within Basins B and C remain unimpacted, and peak flows at the site Point of Analysis are not increased.

The hydrologic calculations have been updated to account for the modifications, as well as the modifications from Addendum 1 and 2. See Attachment A for the updated hydrologic model results. As expected, the peak flows to the site's Point of Analysis remain unchanged or are slightly reduced, and the maximum water surface elevations in both Basin C and Basin B have decreased marginally across all storm events analyzed. These results confirm that the proposed site modifications do not adversely affect the overall stormwater management performance. Table 2 and Table 3 summarize the comparison between the approved design and the modified conditions for peak flows and basin water surface elevations.

Table 2: Peak Flow Comparison

Storm Return Period	Point of Analysis Peak Outflow (cfs)	
	Approved Design	w/ Phase 1H Amended Design
2-Year	96.5	96.5
10-Year	157.2	157.1
100-Year	218.8	218.8

Table 3: Basin Water Surface Elevation Comparison

Storm Return Period	Basin B Maximum Water Surface Elevation (ft)		Basin C Maximum Water Surface Elevation (ft)		Basin D Maximum Water Surface Elevation (ft)	
	Approved Design	w/ Phase 1H Amended Design	Approved Design	w/ Phase 1H Amended Design	Approved Design	w/ Phase 1H Amended Design
2-Year	106.69	106.68	107.68	107.67	98.29	98.29
10-Year	107.52	107.51	108.64	108.62	99.33	99.33
100-Year	109.00	108.99	110.74	110.73	100.75	100.75

As requested by Freehold Soil Conservation District, we have also run the proposed conditions hydrologic model using the NOAA Type D Rainfall Distribution. The results are provided in Attachment B and show lower peak flows and water surface elevations in the basins.

CONCLUSION

In summary, the modifications result in no negative change to the overall drainage patterns of the site. In addition, there are no increases to the Basin C or Basin B water surface elevations or flows at the site point of analysis. Therefore, the updated design remains consistent with the previously approved stormwater management design and does not necessitate any modifications to the previously approved stormwater management basins.



Brian Friedlich, P.E.
NJ. P.E. Lic. No. 24GE04810900

06/27/2025

Date

ATTACHMENT A
HYDROLOGIC MODEL RESULTS



PROJECT NO. 8034
 DRAWN BY: CMG
 CHECKED BY: BJF
 DATE: 06-27-2025
 REVISED:

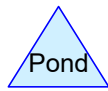
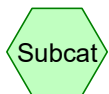
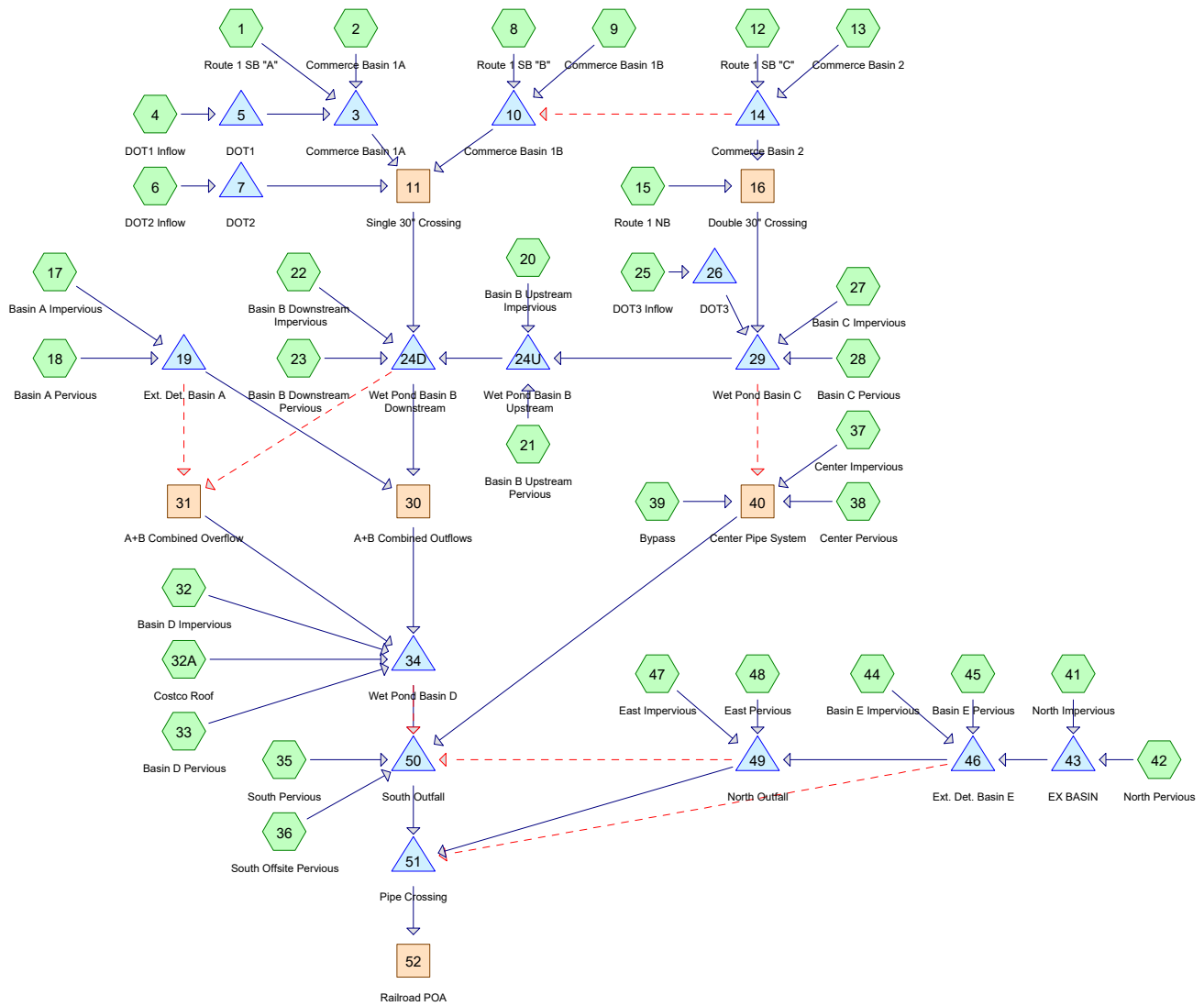
PHASE 1H
 LAND COVER FIGURE

MAIN STREET NB
 NORTH BRUNSWICK TOWNSHIP, NJ

FIGURE

1

PAGE: 1 of 1



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Page 2

Time span=0.00-90.00 hrs, dt=0.01 hrs, 9001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1: Route 1 SB "A"	Runoff Area=36,793 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=2.4 cfs 0.216 af
Subcatchment2: Commerce Basin 1A	Runoff Area=2.300 ac 0.00% Impervious Runoff Depth=2.35" Tc=10.0 min CN=91.0 Runoff=5.5 cfs 0.451 af
Pond 3: Commerce Basin 1A	Peak Elev=111.15' Storage=0.523 af Inflow=10.5 cfs 1.376 af Outflow=1.3 cfs 1.373 af
Subcatchment4: DOT1 Inflow	Runoff Area=140,608 sf 77.96% Impervious Runoff Depth=2.64" Tc=10.0 min CN=94.0 Runoff=8.4 cfs 0.710 af
Pond 5: DOT1	Peak Elev=111.16' Storage=10,268 cf Inflow=8.4 cfs 0.710 af 15.0" Round Culvert x 2.00 n=0.013 L=300.0' S=0.0023 '/ Outflow=2.7 cfs 0.710 af
Subcatchment6: DOT2 Inflow	Runoff Area=141,921 sf 82.05% Impervious Runoff Depth=2.72" Tc=10.0 min CN=94.8 Runoff=8.6 cfs 0.739 af
Pond 7: DOT2	Peak Elev=110.36' Storage=6,400 cf Inflow=8.6 cfs 0.739 af 18.0" Round Culvert n=0.013 L=500.0' S=0.0012 '/ Outflow=4.0 cfs 0.739 af
Subcatchment8: Route 1 SB "B"	Runoff Area=25,396 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=1.6 cfs 0.149 af
Subcatchment9: Commerce Basin 1B	Runoff Area=4.200 ac 0.00% Impervious Runoff Depth=2.35" Tc=10.0 min CN=91.0 Runoff=10.0 cfs 0.823 af
Pond 10: Commerce Basin 1B	Peak Elev=112.17' Storage=0.512 af Inflow=11.8 cfs 1.177 af Outflow=1.8 cfs 1.165 af
Reach 11: Single 30" Crossing	Inflow=6.9 cfs 3.277 af Outflow=6.9 cfs 3.277 af
Subcatchment12: Route 1 SB "C"	Runoff Area=81,907 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=5.3 cfs 0.481 af
Subcatchment13: Commerce Basin 2	Runoff Area=7.300 ac 0.00% Impervious Runoff Depth=2.45" Tc=10.0 min CN=92.0 Runoff=17.9 cfs 1.488 af
Pond 14: Commerce Basin 2	Peak Elev=113.24' Storage=1.273 af Inflow=23.2 cfs 1.968 af Primary=4.5 cfs 1.742 af Secondary=0.2 cfs 0.205 af Outflow=4.7 cfs 1.947 af
Subcatchment15: Route 1 NB	Runoff Area=81,894 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=5.3 cfs 0.481 af
Reach 16: Double 30" Crossing	Inflow=7.6 cfs 2.223 af Outflow=7.6 cfs 2.223 af

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Page 3

Subcatchment17: Basin A Impervious Runoff Area=473,190 sf 100.00% Impervious Runoff Depth=3.07"
Tc=10.0 min CN=98.0 Runoff=30.6 cfs 2.777 af

Subcatchment18: Basin A Pervious Runoff Area=306,816 sf 0.00% Impervious Runoff Depth=0.95"
Tc=10.0 min CN=71.3 Runoff=6.3 cfs 0.560 af

Pond 19: Ext. Det. Basin A Peak Elev=106.62' Storage=73,107 cf Inflow=36.8 cfs 3.337 af
Primary=6.3 cfs 3.337 af Secondary=0.0 cfs 0.000 af Outflow=6.3 cfs 3.337 af

Subcatchment20: Basin B Upstream Runoff Area=380,027 sf 100.00% Impervious Runoff Depth=3.07"
Tc=10.0 min CN=98.0 Runoff=24.5 cfs 2.230 af

Subcatchment21: Basin B Upstream Runoff Area=127,336 sf 0.00% Impervious Runoff Depth=1.04"
Tc=10.0 min CN=72.8 Runoff=2.9 cfs 0.252 af

Subcatchment22: Basin B Downstream Runoff Area=787,298 sf 100.00% Impervious Runoff Depth=3.07"
Tc=10.0 min CN=98.0 Runoff=50.8 cfs 4.620 af

Subcatchment23: Basin B Downstream Runoff Area=315,275 sf 0.00% Impervious Runoff Depth=1.27"
Tc=10.0 min CN=76.8 Runoff=9.2 cfs 0.767 af

Pond 24D: Wet Pond Basin B Peak Elev=106.68' Storage=909,922 cf Inflow=85.4 cfs 18.027 af
Primary=20.5 cfs 17.777 af Secondary=0.0 cfs 0.000 af Outflow=20.5 cfs 17.777 af

Pond 24U: Wet Pond Basin B Upstream Peak Elev=106.68' Storage=148,154 cf Inflow=34.5 cfs 9.408 af
155.0" x 90.0", R=90.0"/252.0" Pipe Arch Culvert n=0.025 L=50.0' S=0.0000 '/' Outflow=20.2 cfs 9.364 af

Subcatchment25: DOT3 Inflow Runoff Area=117,617 sf 66.20% Impervious Runoff Depth=1.88"
Tc=10.0 min CN=85.5 Runoff=5.2 cfs 0.424 af

Pond 26: DOT3 Peak Elev=113.33' Storage=4,295 cf Inflow=5.2 cfs 0.424 af
24.0" Round Culvert n=0.013 L=150.0' S=0.0000 '/' Outflow=2.8 cfs 0.423 af

Subcatchment27: Basin C Impervious Runoff Area=687,973 sf 100.00% Impervious Runoff Depth=3.07"
Tc=10.0 min CN=98.0 Runoff=44.4 cfs 4.037 af

Subcatchment28: Basin C Pervious Runoff Area=237,424 sf 0.00% Impervious Runoff Depth=0.74"
Flow Length=855' Tc=40.1 min CN=66.9 Runoff=2.0 cfs 0.334 af

Pond 29: Wet Pond Basin C Peak Elev=107.67' Storage=503,726 cf Inflow=54.2 cfs 7.017 af
Primary=12.8 cfs 6.926 af Secondary=0.0 cfs 0.000 af Outflow=12.8 cfs 6.926 af

Reach 30: A+B Combined Outflows Inflow=25.8 cfs 21.114 af
Outflow=25.8 cfs 21.114 af

Reach 31: A+B Combined Overflow Inflow=0.0 cfs 0.000 af
Outflow=0.0 cfs 0.000 af

Subcatchment32: Basin D Impervious Runoff Area=1,512,365 sf 100.00% Impervious Runoff Depth=3.07"
Tc=10.0 min CN=98.0 Runoff=97.7 cfs 8.874 af

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Page 4

Subcatchment32A: Costco Roof	Runoff Area=151,843 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=9.8 cfs 0.891 af
Subcatchment33: Basin D Pervious	Runoff Area=253,903 sf 0.00% Impervious Runoff Depth=1.43" Tc=10.0 min CN=79.3 Runoff=8.4 cfs 0.696 af
Pond 34: Wet Pond Basin D	Peak Elev=98.29' Storage=627,307 cf Inflow=127.6 cfs 31.574 af Primary=47.2 cfs 31.388 af Secondary=0.0 cfs 0.000 af Outflow=47.2 cfs 31.388 af
Subcatchment35: South Pervious	Runoff Area=934,919 sf 0.00% Impervious Runoff Depth=1.19" Tc=117.4 min CN=75.4 Runoff=7.2 cfs 2.121 af
Subcatchment36: South Offsite Pervious	Runoff Area=1,913,280 sf 0.00% Impervious Runoff Depth=0.75" Flow Length=3,705' Tc=161.6 min CN=67.3 Runoff=6.7 cfs 2.761 af
Subcatchment37: Center Impervious	Runoff Area=809,245 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=52.3 cfs 4.748 af
Subcatchment38: Center Pervious	Runoff Area=36,425 sf 0.00% Impervious Runoff Depth=1.48" Tc=10.0 min CN=80.0 Runoff=1.3 cfs 0.103 af
Subcatchment39: Bypass	Runoff Area=292,949 sf 0.00% Impervious Runoff Depth=0.99" Flow Length=560' Tc=64.6 min CN=72.0 Runoff=2.7 cfs 0.556 af
Reach 40: Center Pipe System	Avg. Flow Depth=1.61' Max Vel=8.83 fps Inflow=53.8 cfs 5.408 af 60.0" Round Pipe n=0.010 L=2,700.0' S=0.0040 ' Capacity=214.9 cfs Outflow=48.2 cfs 5.408 af
Subcatchment41: North Impervious	Runoff Area=360,907 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=23.3 cfs 2.118 af
Subcatchment42: North Pervious	Runoff Area=124,971 sf 0.00% Impervious Runoff Depth=1.41" Tc=10.0 min CN=79.0 Runoff=4.1 cfs 0.338 af
Pond 43: EX BASIN	Peak Elev=109.50' Storage=19,516 cf Inflow=27.4 cfs 2.455 af Outflow=12.0 cfs 2.455 af
Subcatchment44: Basin E Impervious	Runoff Area=433,446 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=28.0 cfs 2.543 af
Subcatchment45: Basin E Pervious	Runoff Area=379,832 sf 0.00% Impervious Runoff Depth=1.02" Flow Length=1,170' Tc=49.3 min CN=72.5 Runoff=4.3 cfs 0.741 af
Pond 46: Ext. Det. Basin E	Peak Elev=108.67' Storage=131,990 cf Inflow=39.1 cfs 5.739 af Primary=7.1 cfs 5.740 af Secondary=0.0 cfs 0.000 af Outflow=7.1 cfs 5.740 af
Subcatchment47: East Impervious	Runoff Area=297,257 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=19.2 cfs 1.744 af
Subcatchment48: East Pervious	Runoff Area=89,874 sf 0.00% Impervious Runoff Depth=1.48" Tc=10.0 min CN=80.0 Runoff=3.1 cfs 0.254 af

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Page 5

Pond 49: North Outfall

Peak Elev=99.29' Storage=4,191 cf Inflow=23.8 cfs 7.738 af
Primary=21.3 cfs 7.732 af Secondary=0.0 cfs 0.000 af Outflow=21.3 cfs 7.732 af

Pond 50: South Outfall

Peak Elev=96.85' Storage=5,105 cf Inflow=78.3 cfs 41.678 af
Outflow=76.7 cfs 41.677 af

Pond 51: Pipe Crossing

Peak Elev=96.15' Storage=8,671 cf Inflow=97.3 cfs 49.409 af
Outflow=96.5 cfs 49.407 af

Reach 52: Railroad POA

Inflow=96.5 cfs 49.407 af
Outflow=96.5 cfs 49.407 af

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Page 6

Time span=0.00-90.00 hrs, dt=0.01 hrs, 9001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1: Route 1 SB "A"	Runoff Area=36,793 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=3.7 cfs 0.342 af
Subcatchment2: Commerce Basin 1A	Runoff Area=2.300 ac 0.00% Impervious Runoff Depth=4.08" Tc=10.0 min CN=91.0 Runoff=9.2 cfs 0.782 af
Pond 3: Commerce Basin 1A	Peak Elev=112.32' Storage=0.845 af Inflow=15.6 cfs 2.309 af Outflow=1.6 cfs 2.305 af
Subcatchment4: DOT1 Inflow	Runoff Area=140,608 sf 77.96% Impervious Runoff Depth=4.41" Tc=10.0 min CN=94.0 Runoff=13.6 cfs 1.185 af
Pond 5: DOT1	Peak Elev=112.33' Storage=21,625 cf Inflow=13.6 cfs 1.185 af 15.0" Round Culvert x 2.00 n=0.013 L=300.0' S=0.0023 '/ Outflow=2.7 cfs 1.185 af
Subcatchment6: DOT2 Inflow	Runoff Area=141,921 sf 82.05% Impervious Runoff Depth=4.50" Tc=10.0 min CN=94.8 Runoff=13.8 cfs 1.221 af
Pond 7: DOT2	Peak Elev=111.05' Storage=12,180 cf Inflow=13.8 cfs 1.221 af 18.0" Round Culvert n=0.013 L=500.0' S=0.0012 '/ Outflow=5.1 cfs 1.221 af
Subcatchment8: Route 1 SB "B"	Runoff Area=25,396 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=2.6 cfs 0.236 af
Subcatchment9: Commerce Basin 1B	Runoff Area=4.200 ac 0.00% Impervious Runoff Depth=4.08" Tc=10.0 min CN=91.0 Runoff=16.8 cfs 1.428 af
Pond 10: Commerce Basin 1B	Peak Elev=112.88' Storage=0.879 af Inflow=19.6 cfs 1.911 af Outflow=2.5 cfs 1.898 af
Reach 11: Single 30" Crossing	Inflow=9.0 cfs 5.424 af Outflow=9.0 cfs 5.424 af
Subcatchment12: Route 1 SB "C"	Runoff Area=81,907 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=8.2 cfs 0.762 af
Subcatchment13: Commerce Basin 2	Runoff Area=7.300 ac 0.00% Impervious Runoff Depth=4.19" Tc=10.0 min CN=92.0 Runoff=29.8 cfs 2.547 af
Pond 14: Commerce Basin 2	Peak Elev=113.73' Storage=1.826 af Inflow=38.0 cfs 3.309 af Primary=9.0 cfs 3.041 af Secondary=0.2 cfs 0.247 af Outflow=9.3 cfs 3.288 af
Subcatchment15: Route 1 NB	Runoff Area=81,894 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=8.2 cfs 0.762 af
Reach 16: Double 30" Crossing	Inflow=13.9 cfs 3.802 af Outflow=13.9 cfs 3.802 af

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Page 7

Subcatchment17: Basin A Impervious Runoff Area=473,190 sf 100.00% Impervious Runoff Depth=4.86"
Tc=10.0 min CN=98.0 Runoff=47.6 cfs 4.402 af

Subcatchment18: Basin A Pervious Runoff Area=306,816 sf 0.00% Impervious Runoff Depth=2.22"
Tc=10.0 min CN=71.3 Runoff=15.8 cfs 1.301 af

Pond 19: Ext. Det. Basin A Peak Elev=107.63' Storage=123,029 cf Inflow=63.3 cfs 5.704 af
Primary=10.2 cfs 5.704 af Secondary=0.0 cfs 0.000 af Outflow=10.2 cfs 5.704 af

Subcatchment20: Basin B Upstream Runoff Area=380,027 sf 100.00% Impervious Runoff Depth=4.86"
Tc=10.0 min CN=98.0 Runoff=38.2 cfs 3.536 af

Subcatchment21: Basin B Upstream Runoff Area=127,336 sf 0.00% Impervious Runoff Depth=2.34"
Tc=10.0 min CN=72.8 Runoff=7.0 cfs 0.571 af

Subcatchment22: Basin B Downstream Runoff Area=787,298 sf 100.00% Impervious Runoff Depth=4.86"
Tc=10.0 min CN=98.0 Runoff=79.2 cfs 7.324 af

Subcatchment23: Basin B Downstream Runoff Area=315,275 sf 0.00% Impervious Runoff Depth=2.69"
Tc=10.0 min CN=76.8 Runoff=19.9 cfs 1.622 af

Pond 24D: Wet Pond Basin B Peak Elev=107.50' Storage=1,036,427 cf Inflow=141.6 cfs 30.177 af
Primary=34.9 cfs 29.919 af Secondary=0.0 cfs 0.000 af Outflow=34.9 cfs 29.919 af

Pond 24U: Wet Pond Basin B Upstream Peak Elev=107.51' Storage=173,772 cf Inflow=59.1 cfs 15.853 af
155.0" x 90.0", R=90.0"/252.0" Pipe Arch Culvert n=0.025 L=50.0' S=0.0000 '/ Outflow=35.2 cfs 15.807 af

Subcatchment25: DOT3 Inflow Runoff Area=117,617 sf 66.20% Impervious Runoff Depth=3.51"
Tc=10.0 min CN=85.5 Runoff=9.6 cfs 0.790 af

Pond 26: DOT3 Peak Elev=113.79' Storage=7,219 cf Inflow=9.6 cfs 0.790 af
24.0" Round Culvert n=0.013 L=150.0' S=0.0000 '/ Outflow=5.6 cfs 0.790 af

Subcatchment27: Basin C Impervious Runoff Area=687,973 sf 100.00% Impervious Runoff Depth=4.86"
Tc=10.0 min CN=98.0 Runoff=69.2 cfs 6.400 af

Subcatchment28: Basin C Pervious Runoff Area=237,424 sf 0.00% Impervious Runoff Depth=1.87"
Flow Length=855' Tc=40.1 min CN=66.9 Runoff=5.7 cfs 0.847 af

Pond 29: Wet Pond Basin C Peak Elev=108.62' Storage=580,193 cf Inflow=88.6 cfs 11.840 af
Primary=20.9 cfs 11.747 af Secondary=0.0 cfs 0.000 af Outflow=20.9 cfs 11.747 af

Reach 30: A+B Combined Outflows Inflow=44.4 cfs 35.623 af
Outflow=44.4 cfs 35.623 af

Reach 31: A+B Combined Overflow Inflow=0.0 cfs 0.000 af
Outflow=0.0 cfs 0.000 af

Subcatchment32: Basin D Impervious Runoff Area=1,512,365 sf 100.00% Impervious Runoff Depth=4.86"
Tc=10.0 min CN=98.0 Runoff=152.0 cfs 14.070 af

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Page 8

Subcatchment32A: Costco Roof	Runoff Area=151,843 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=15.3 cfs 1.413 af
Subcatchment33: Basin D Pervious	Runoff Area=253,903 sf 0.00% Impervious Runoff Depth=2.92" Tc=10.0 min CN=79.3 Runoff=17.4 cfs 1.416 af
Pond 34: Wet Pond Basin D	Peak Elev=99.33' Storage=737,162 cf Inflow=211.5 cfs 52.522 af Primary=89.6 cfs 52.330 af Secondary=0.0 cfs 0.000 af Outflow=89.6 cfs 52.330 af
Subcatchment35: South Pervious	Runoff Area=934,919 sf 0.00% Impervious Runoff Depth=2.57" Tc=117.4 min CN=75.4 Runoff=16.2 cfs 4.589 af
Subcatchment36: South Offsite Pervious	Runoff Area=1,913,280 sf 0.00% Impervious Runoff Depth=1.90" Flow Length=3,705' Tc=161.6 min CN=67.3 Runoff=18.9 cfs 6.941 af
Subcatchment37: Center Impervious	Runoff Area=809,245 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=81.4 cfs 7.529 af
Subcatchment38: Center Pervious	Runoff Area=36,425 sf 0.00% Impervious Runoff Depth=2.98" Tc=10.0 min CN=80.0 Runoff=2.6 cfs 0.208 af
Subcatchment39: Bypass	Runoff Area=292,949 sf 0.00% Impervious Runoff Depth=2.28" Flow Length=560' Tc=64.6 min CN=72.0 Runoff=6.6 cfs 1.275 af
Reach 40: Center Pipe System	Avg. Flow Depth=2.08' Max Vel=10.06 fps Inflow=85.2 cfs 9.011 af 60.0" Round Pipe n=0.010 L=2,700.0' S=0.0040 ' Capacity=214.9 cfs Outflow=77.7 cfs 9.011 af
Subcatchment41: North Impervious	Runoff Area=360,907 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=36.3 cfs 3.358 af
Subcatchment42: North Pervious	Runoff Area=124,971 sf 0.00% Impervious Runoff Depth=2.89" Tc=10.0 min CN=79.0 Runoff=8.5 cfs 0.690 af
Pond 43: EX BASIN	Peak Elev=110.06' Storage=40,875 cf Inflow=44.8 cfs 4.048 af Outflow=14.5 cfs 4.048 af
Subcatchment44: Basin E Impervious	Runoff Area=433,446 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=43.6 cfs 4.032 af
Subcatchment45: Basin E Pervious	Runoff Area=379,832 sf 0.00% Impervious Runoff Depth=2.32" Flow Length=1,170' Tc=49.3 min CN=72.5 Runoff=10.3 cfs 1.684 af
Pond 46: Ext. Det. Basin E	Peak Elev=109.58' Storage=198,598 cf Inflow=59.2 cfs 9.764 af Primary=13.5 cfs 9.764 af Secondary=0.0 cfs 0.000 af Outflow=13.5 cfs 9.764 af
Subcatchment47: East Impervious	Runoff Area=297,257 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=29.9 cfs 2.765 af
Subcatchment48: East Pervious	Runoff Area=89,874 sf 0.00% Impervious Runoff Depth=2.98" Tc=10.0 min CN=80.0 Runoff=6.3 cfs 0.512 af

6204 PROP Addendum 3

Type III 24-hr 10 YEAR Rainfall=5.10"

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Page 9

Pond 49: North Outfall

Peak Elev=99.78' Storage=10,084 cf Inflow=41.7 cfs 13.042 af
Primary=33.8 cfs 13.036 af Secondary=0.0 cfs 0.000 af Outflow=33.8 cfs 13.036 af

Pond 50: South Outfall

Peak Elev=98.08' Storage=33,088 cf Inflow=145.2 cfs 72.871 af
Outflow=130.9 cfs 72.870 af

Pond 51: Pipe Crossing

Peak Elev=97.25' Storage=15,590 cf Inflow=157.3 cfs 85.906 af
Outflow=157.1 cfs 85.904 af

Reach 52: Railroad POA

Inflow=157.1 cfs 85.904 af
Outflow=157.1 cfs 85.904 af

6204 PROP Addendum 3*Type III 24-hr 100 YEAR Rainfall=8.60"*

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Page 10

Time span=0.00-90.00 hrs, dt=0.01 hrs, 9001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1: Route 1 SB "A"	Runoff Area=36,793 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=6.3 cfs 0.588 af
Subcatchment2: Commerce Basin 1A	Runoff Area=2.300 ac 0.00% Impervious Runoff Depth=7.52" Tc=10.0 min CN=91.0 Runoff=16.4 cfs 1.441 af
Pond 3: Commerce Basin 1A	Peak Elev=114.40' Storage=1.468 af Inflow=25.1 cfs 4.148 af Outflow=2.1 cfs 4.143 af
Subcatchment4: DOT1 Inflow	Runoff Area=140,608 sf 77.96% Impervious Runoff Depth=7.88" Tc=10.0 min CN=94.0 Runoff=23.5 cfs 2.119 af
Pond 5: DOT1	Peak Elev=114.42' Storage=48,882 cf Inflow=23.5 cfs 2.119 af 15.0" Round Culvert x 2.00 n=0.013 L=300.0' S=0.0023 '/ Outflow=2.4 cfs 2.118 af
Subcatchment6: DOT2 Inflow	Runoff Area=141,921 sf 82.05% Impervious Runoff Depth=7.98" Tc=10.0 min CN=94.8 Runoff=23.9 cfs 2.165 af
Pond 7: DOT2	Peak Elev=112.34' Storage=24,810 cf Inflow=23.9 cfs 2.165 af 18.0" Round Culvert n=0.013 L=500.0' S=0.0012 '/ Outflow=7.1 cfs 2.165 af
Subcatchment8: Route 1 SB "B"	Runoff Area=25,396 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=4.3 cfs 0.406 af
Subcatchment9: Commerce Basin 1B	Runoff Area=4.200 ac 0.00% Impervious Runoff Depth=7.52" Tc=10.0 min CN=91.0 Runoff=30.0 cfs 2.631 af
Pond 10: Commerce Basin 1B	Peak Elev=114.17' Storage=1.617 af Inflow=34.5 cfs 3.256 af Outflow=3.5 cfs 3.242 af
Reach 11: Single 30" Crossing	Inflow=12.5 cfs 9.551 af Outflow=12.5 cfs 9.551 af
Subcatchment12: Route 1 SB "C"	Runoff Area=81,907 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=13.9 cfs 1.310 af
Subcatchment13: Commerce Basin 2	Runoff Area=7.300 ac 0.00% Impervious Runoff Depth=7.64" Tc=10.0 min CN=92.0 Runoff=52.5 cfs 4.646 af
Pond 14: Commerce Basin 2	Peak Elev=114.63' Storage=2.885 af Inflow=66.5 cfs 5.956 af Primary=15.1 cfs 5.716 af Secondary=0.2 cfs 0.218 af Outflow=15.3 cfs 5.934 af
Subcatchment15: Route 1 NB	Runoff Area=81,894 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=13.9 cfs 1.310 af
Reach 16: Double 30" Crossing	Inflow=25.4 cfs 7.026 af Outflow=25.4 cfs 7.026 af

6204 PROP Addendum 3*Type III 24-hr 100 YEAR Rainfall=8.60"*

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Page 11

Subcatchment17: Basin A Impervious Runoff Area=473,190 sf 100.00% Impervious Runoff Depth=8.36"
Tc=10.0 min CN=98.0 Runoff=80.5 cfs 7.568 af

Subcatchment18: Basin A Pervious Runoff Area=306,816 sf 0.00% Impervious Runoff Depth=5.14"
Tc=10.0 min CN=71.3 Runoff=37.1 cfs 3.017 af

Pond 19: Ext. Det. Basin A Peak Elev=109.50' Storage=224,978 cf Inflow=117.6 cfs 10.585 af
Primary=20.0 cfs 10.585 af Secondary=0.0 cfs 0.000 af Outflow=20.0 cfs 10.585 af

Subcatchment20: Basin B Upstream Runoff Area=380,027 sf 100.00% Impervious Runoff Depth=8.36"
Tc=10.0 min CN=98.0 Runoff=64.7 cfs 6.078 af

Subcatchment21: Basin B Upstream Runoff Area=127,336 sf 0.00% Impervious Runoff Depth=5.32"
Tc=10.0 min CN=72.8 Runoff=15.9 cfs 1.296 af

Subcatchment22: Basin B Downstream Runoff Area=787,298 sf 100.00% Impervious Runoff Depth=8.36"
Tc=10.0 min CN=98.0 Runoff=134.0 cfs 12.591 af

Subcatchment23: Basin B Downstream Runoff Area=315,275 sf 0.00% Impervious Runoff Depth=5.80"
Tc=10.0 min CN=76.8 Runoff=42.6 cfs 3.500 af

Pond 24D: Wet Pond Basin B Peak Elev=108.98' Storage=1,281,602 cf Inflow=245.9 cfs 54.537 af
Primary=55.9 cfs 54.263 af Secondary=0.0 cfs 0.000 af Outflow=55.9 cfs 54.263 af

Pond 24U: Wet Pond Basin B Upstream Peak Elev=108.99' Storage=225,439 cf Inflow=101.9 cfs 28.943 af
155.0" x 90.0", R=90.0"/252.0" Pipe Arch Culvert n=0.025 L=50.0' S=0.0000 '/' Outflow=59.3 cfs 28.894 af

Subcatchment25: DOT3 Inflow Runoff Area=117,617 sf 66.20% Impervious Runoff Depth=6.85"
Tc=10.0 min CN=85.5 Runoff=18.2 cfs 1.542 af

Pond 26: DOT3 Peak Elev=114.44' Storage=13,285 cf Inflow=18.2 cfs 1.542 af
24.0" Round Culvert n=0.013 L=150.0' S=0.0000 '/' Outflow=9.9 cfs 1.542 af

Subcatchment27: Basin C Impervious Runoff Area=687,973 sf 100.00% Impervious Runoff Depth=8.36"
Tc=10.0 min CN=98.0 Runoff=117.1 cfs 11.003 af

Subcatchment28: Basin C Pervious Runoff Area=237,424 sf 0.00% Impervious Runoff Depth=4.61"
Flow Length=855' Tc=40.1 min CN=66.9 Runoff=14.5 cfs 2.095 af

Pond 29: Wet Pond Basin C Peak Elev=110.73' Storage=765,398 cf Inflow=156.0 cfs 21.665 af
Primary=30.2 cfs 21.569 af Secondary=0.0 cfs 0.000 af Outflow=30.2 cfs 21.569 af

Reach 30: A+B Combined Outflows Inflow=69.9 cfs 64.848 af
Outflow=69.9 cfs 64.848 af

Reach 31: A+B Combined Overflow Inflow=0.0 cfs 0.000 af
Outflow=0.0 cfs 0.000 af

Subcatchment32: Basin D Impervious Runoff Area=1,512,365 sf 100.00% Impervious Runoff Depth=8.36"
Tc=10.0 min CN=98.0 Runoff=257.4 cfs 24.187 af

6204 PROP Addendum 3*Type III 24-hr 100 YEAR Rainfall=8.60"*

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Page 12

Subcatchment32A: Costco Roof	Runoff Area=151,843 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=25.8 cfs 2.428 af
Subcatchment33: Basin D Pervious	Runoff Area=253,903 sf 0.00% Impervious Runoff Depth=6.11" Tc=10.0 min CN=79.3 Runoff=35.9 cfs 2.965 af
Pond 34: Wet Pond Basin D	Peak Elev=100.75' Storage=896,581 cf Inflow=367.4 cfs 94.430 af Primary=193.1 cfs 94.226 af Secondary=0.0 cfs 0.000 af Outflow=193.1 cfs 94.226 af
Subcatchment35: South Pervious	Runoff Area=934,919 sf 0.00% Impervious Runoff Depth=5.63" Tc=117.4 min CN=75.4 Runoff=35.9 cfs 10.078 af
Subcatchment36: South Offsite Pervious	Runoff Area=1,913,280 sf 0.00% Impervious Runoff Depth=4.66" Flow Length=3,705' Tc=161.6 min CN=67.3 Runoff=48.7 cfs 17.057 af
Subcatchment37: Center Impervious	Runoff Area=809,245 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=137.7 cfs 12.942 af
Subcatchment38: Center Pervious	Runoff Area=36,425 sf 0.00% Impervious Runoff Depth=6.19" Tc=10.0 min CN=80.0 Runoff=5.2 cfs 0.431 af
Subcatchment39: Bypass	Runoff Area=292,949 sf 0.00% Impervious Runoff Depth=5.22" Flow Length=560' Tc=64.6 min CN=72.0 Runoff=15.6 cfs 2.928 af
Reach 40: Center Pipe System	Avg. Flow Depth=2.88' Max Vel=11.58 fps Inflow=146.7 cfs 16.302 af 60.0" Round Pipe n=0.010 L=2,700.0' S=0.0040 ' ' Capacity=214.9 cfs Outflow=135.7 cfs 16.302 af
Subcatchment41: North Impervious	Runoff Area=360,907 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=61.4 cfs 5.772 af
Subcatchment42: North Pervious	Runoff Area=124,971 sf 0.00% Impervious Runoff Depth=6.07" Tc=10.0 min CN=79.0 Runoff=17.6 cfs 1.451 af
Pond 43: EX BASIN	Peak Elev=111.25' Storage=99,694 cf Inflow=79.0 cfs 7.223 af Outflow=14.6 cfs 7.223 af
Subcatchment44: Basin E Impervious	Runoff Area=433,446 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=73.8 cfs 6.932 af
Subcatchment45: Basin E Pervious	Runoff Area=379,832 sf 0.00% Impervious Runoff Depth=5.28" Flow Length=1,170' Tc=49.3 min CN=72.5 Runoff=23.8 cfs 3.840 af
Pond 46: Ext. Det. Basin E	Peak Elev=110.50' Storage=268,148 cf Inflow=95.4 cfs 17.995 af Primary=45.0 cfs 17.995 af Secondary=0.0 cfs 0.000 af Outflow=45.0 cfs 17.995 af
Subcatchment47: East Impervious	Runoff Area=297,257 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=50.6 cfs 4.754 af
Subcatchment48: East Pervious	Runoff Area=89,874 sf 0.00% Impervious Runoff Depth=6.19" Tc=10.0 min CN=80.0 Runoff=12.9 cfs 1.064 af

6204 PROP Addendum 3

Type III 24-hr 100 YEAR Rainfall=8.60"

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Page 13

Pond 49: North Outfall

Peak Elev=100.28' Storage=19,566 cf Inflow=76.6 cfs 23.814 af
Primary=47.8 cfs 22.817 af Secondary=23.6 cfs 0.990 af Outflow=71.4 cfs 23.807 af

Pond 50: South Outfall

Peak Elev=99.82' Storage=378,033 cf Inflow=329.4 cfs 138.652 af
Outflow=188.2 cfs 138.651 af

Pond 51: Pipe Crossing

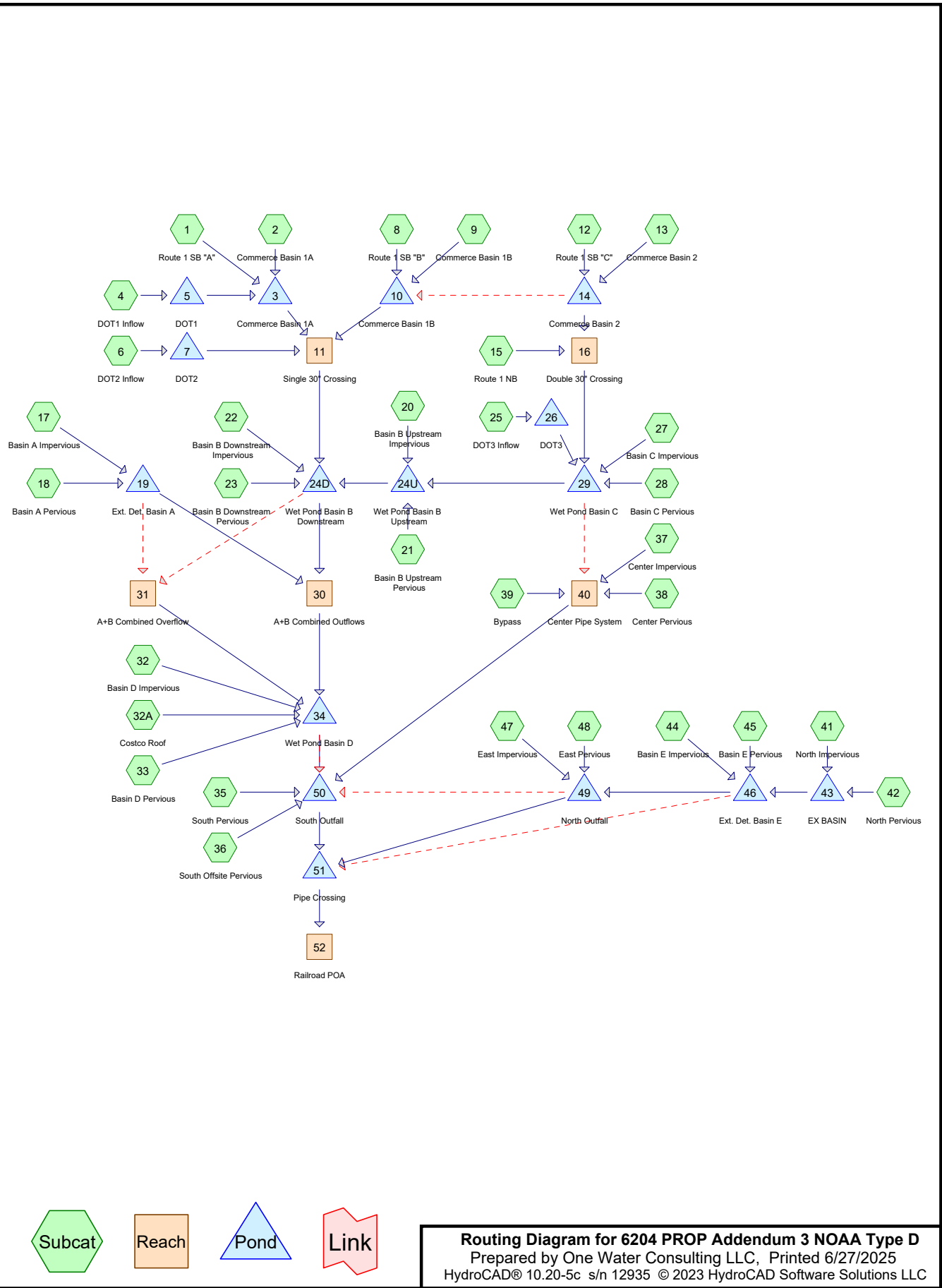
Peak Elev=98.67' Storage=30,949 cf Inflow=218.8 cfs 161.468 af
Outflow=218.8 cfs 161.466 af

Reach 52: Railroad POA

Inflow=218.8 cfs 161.466 af
Outflow=218.8 cfs 161.466 af

ATTACHMENT B

HYDROLOGIC MODEL RESULTS
(NOAA TYPE D RAINFALL DISTRIBUTION)



6204 PROP Addendum 3 NOAA Type D

NOAA 24-hr D 2 YEAR Rainfall=3.30"

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Page 2

Time span=0.00-90.00 hrs, dt=0.01 hrs, 9001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1: Route 1 SB "A"	Runoff Area=36,793 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=2.3 cfs 0.216 af
Subcatchment2: Commerce Basin 1A	Runoff Area=2.300 ac 0.00% Impervious Runoff Depth=2.35" Tc=10.0 min CN=91.0 Runoff=5.3 cfs 0.451 af
Pond 3: Commerce Basin 1A	Peak Elev=111.10' Storage=0.511 af Inflow=10.2 cfs 1.376 af Outflow=1.3 cfs 1.373 af
Subcatchment4: DOT1 Inflow	Runoff Area=140,608 sf 77.96% Impervious Runoff Depth=2.64" Tc=10.0 min CN=94.0 Runoff=8.1 cfs 0.710 af
Pond 5: DOT1	Peak Elev=111.11' Storage=9,917 cf Inflow=8.1 cfs 0.710 af 15.0" Round Culvert x 2.00 n=0.013 L=300.0' S=0.0023 '/ Outflow=2.6 cfs 0.710 af
Subcatchment6: DOT2 Inflow	Runoff Area=141,921 sf 82.05% Impervious Runoff Depth=2.72" Tc=10.0 min CN=94.8 Runoff=8.4 cfs 0.739 af
Pond 7: DOT2	Peak Elev=110.30' Storage=5,912 cf Inflow=8.4 cfs 0.739 af 18.0" Round Culvert n=0.013 L=500.0' S=0.0012 '/ Outflow=3.8 cfs 0.739 af
Subcatchment8: Route 1 SB "B"	Runoff Area=25,396 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=1.6 cfs 0.149 af
Subcatchment9: Commerce Basin 1B	Runoff Area=4.200 ac 0.00% Impervious Runoff Depth=2.35" Tc=10.0 min CN=91.0 Runoff=9.7 cfs 0.823 af
Pond 10: Commerce Basin 1B	Peak Elev=112.14' Storage=0.493 af Inflow=11.5 cfs 1.182 af Outflow=1.7 cfs 1.170 af
Reach 11: Single 30" Crossing	Inflow=6.6 cfs 3.281 af Outflow=6.6 cfs 3.281 af
Subcatchment12: Route 1 SB "C"	Runoff Area=81,907 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=5.1 cfs 0.481 af
Subcatchment13: Commerce Basin 2	Runoff Area=7.300 ac 0.00% Impervious Runoff Depth=2.45" Tc=10.0 min CN=92.0 Runoff=17.4 cfs 1.488 af
Pond 14: Commerce Basin 2	Peak Elev=113.20' Storage=1.229 af Inflow=22.5 cfs 1.968 af Primary=4.1 cfs 1.737 af Secondary=0.2 cfs 0.210 af Outflow=4.3 cfs 1.947 af
Subcatchment15: Route 1 NB	Runoff Area=81,894 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=5.1 cfs 0.481 af
Reach 16: Double 30" Crossing	Inflow=7.6 cfs 2.218 af Outflow=7.6 cfs 2.218 af

6204 PROP Addendum 3 NOAA Type D

NOAA 24-hr D 2 YEAR Rainfall=3.30"

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Page 3

Subcatchment17: Basin A Impervious Runoff Area=473,190 sf 100.00% Impervious Runoff Depth=3.07"
Tc=10.0 min CN=98.0 Runoff=29.6 cfs 2.777 af

Subcatchment18: Basin A Pervious Runoff Area=306,816 sf 0.00% Impervious Runoff Depth=0.95"
Tc=10.0 min CN=71.3 Runoff=6.4 cfs 0.560 af

Pond 19: Ext. Det. Basin A Peak Elev=106.55' Storage=70,183 cf Inflow=35.9 cfs 3.337 af
Primary=5.9 cfs 3.337 af Secondary=0.0 cfs 0.000 af Outflow=5.9 cfs 3.337 af

Subcatchment20: Basin B Upstream Runoff Area=380,027 sf 100.00% Impervious Runoff Depth=3.07"
Tc=10.0 min CN=98.0 Runoff=23.7 cfs 2.230 af

Subcatchment21: Basin B Upstream Runoff Area=127,336 sf 0.00% Impervious Runoff Depth=1.04"
Tc=10.0 min CN=72.8 Runoff=2.9 cfs 0.252 af

Subcatchment22: Basin B Downstream Runoff Area=787,298 sf 100.00% Impervious Runoff Depth=3.07"
Tc=10.0 min CN=98.0 Runoff=49.2 cfs 4.620 af

Subcatchment23: Basin B Downstream Runoff Area=315,275 sf 0.00% Impervious Runoff Depth=1.27"
Tc=10.0 min CN=76.8 Runoff=9.2 cfs 0.767 af

Pond 24D: Wet Pond Basin B Peak Elev=106.66' Storage=906,636 cf Inflow=83.7 cfs 18.026 af
Primary=20.0 cfs 17.775 af Secondary=0.0 cfs 0.000 af Outflow=20.0 cfs 17.775 af

Pond 24U: Wet Pond Basin B Upstream Peak Elev=106.66' Storage=147,505 cf Inflow=34.0 cfs 9.403 af
155.0" x 90.0", R=90.0"/252.0" Pipe Arch Culvert n=0.025 L=50.0' S=0.0000 1' Outflow=20.1 cfs 9.358 af

Subcatchment25: DOT3 Inflow Runoff Area=117,617 sf 66.20% Impervious Runoff Depth=1.88"
Tc=10.0 min CN=85.5 Runoff=5.1 cfs 0.424 af

Pond 26: DOT3 Peak Elev=113.30' Storage=4,119 cf Inflow=5.1 cfs 0.424 af
24.0" Round Culvert n=0.013 L=150.0' S=0.0000 1' Outflow=2.7 cfs 0.423 af

Subcatchment27: Basin C Impervious Runoff Area=687,973 sf 100.00% Impervious Runoff Depth=3.07"
Tc=10.0 min CN=98.0 Runoff=43.0 cfs 4.037 af

Subcatchment28: Basin C Pervious Runoff Area=237,424 sf 0.00% Impervious Runoff Depth=0.74"
Flow Length=855' Tc=40.1 min CN=66.9 Runoff=1.8 cfs 0.334 af

Pond 29: Wet Pond Basin C Peak Elev=107.62' Storage=500,359 cf Inflow=52.8 cfs 7.012 af
Primary=12.1 cfs 6.920 af Secondary=0.0 cfs 0.000 af Outflow=12.1 cfs 6.920 af

Reach 30: A+B Combined Outflows Inflow=25.2 cfs 21.112 af
Outflow=25.2 cfs 21.112 af

Reach 31: A+B Combined Overflow Inflow=0.0 cfs 0.000 af
Outflow=0.0 cfs 0.000 af

Subcatchment32: Basin D Impervious Runoff Area=1,512,365 sf 100.00% Impervious Runoff Depth=3.07"
Tc=10.0 min CN=98.0 Runoff=94.5 cfs 8.874 af

6204 PROP Addendum 3 NOAA Type D

NOAA 24-hr D 2 YEAR Rainfall=3.30"

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Page 4

Subcatchment32A: Costco Roof	Runoff Area=151,843 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=9.5 cfs 0.891 af
Subcatchment33: Basin D Pervious	Runoff Area=253,903 sf 0.00% Impervious Runoff Depth=1.43" Tc=10.0 min CN=79.3 Runoff=8.4 cfs 0.696 af
Pond 34: Wet Pond Basin D	Peak Elev=98.19' Storage=617,040 cf Inflow=124.9 cfs 31.572 af Primary=43.6 cfs 31.386 af Secondary=0.0 cfs 0.000 af Outflow=43.6 cfs 31.386 af
Subcatchment35: South Pervious	Runoff Area=934,919 sf 0.00% Impervious Runoff Depth=1.19" Tc=117.4 min CN=75.4 Runoff=6.9 cfs 2.121 af
Subcatchment36: South Offsite Pervious	Runoff Area=1,913,280 sf 0.00% Impervious Runoff Depth=0.75" Flow Length=3,705' Tc=161.6 min CN=67.3 Runoff=6.5 cfs 2.761 af
Subcatchment37: Center Impervious	Runoff Area=809,245 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=50.5 cfs 4.748 af
Subcatchment38: Center Pervious	Runoff Area=36,425 sf 0.00% Impervious Runoff Depth=1.48" Tc=10.0 min CN=80.0 Runoff=1.2 cfs 0.103 af
Subcatchment39: Bypass	Runoff Area=292,949 sf 0.00% Impervious Runoff Depth=0.99" Flow Length=560' Tc=64.6 min CN=72.0 Runoff=2.5 cfs 0.556 af
Reach 40: Center Pipe System	Avg. Flow Depth=1.58' Max Vel=8.73 fps Inflow=52.2 cfs 5.408 af 60.0" Round Pipe n=0.010 L=2,700.0' S=0.0040 ' Capacity=214.9 cfs Outflow=46.4 cfs 5.408 af
Subcatchment41: North Impervious	Runoff Area=360,907 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=22.5 cfs 2.118 af
Subcatchment42: North Pervious	Runoff Area=124,971 sf 0.00% Impervious Runoff Depth=1.41" Tc=10.0 min CN=79.0 Runoff=4.1 cfs 0.338 af
Pond 43: EX BASIN	Peak Elev=109.43' Storage=17,714 cf Inflow=26.6 cfs 2.455 af Outflow=11.5 cfs 2.455 af
Subcatchment44: Basin E Impervious	Runoff Area=433,446 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=27.1 cfs 2.543 af
Subcatchment45: Basin E Pervious	Runoff Area=379,832 sf 0.00% Impervious Runoff Depth=1.02" Flow Length=1,170' Tc=49.3 min CN=72.5 Runoff=3.9 cfs 0.741 af
Pond 46: Ext. Det. Basin E	Peak Elev=108.64' Storage=129,893 cf Inflow=38.1 cfs 5.739 af Primary=6.9 cfs 5.740 af Secondary=0.0 cfs 0.000 af Outflow=6.9 cfs 5.740 af
Subcatchment47: East Impervious	Runoff Area=297,257 sf 100.00% Impervious Runoff Depth=3.07" Tc=10.0 min CN=98.0 Runoff=18.6 cfs 1.744 af
Subcatchment48: East Pervious	Runoff Area=89,874 sf 0.00% Impervious Runoff Depth=1.48" Tc=10.0 min CN=80.0 Runoff=3.1 cfs 0.254 af

6204 PROP Addendum 3 NOAA Type D

NOAA 24-hr D 2 YEAR Rainfall=3.30"

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Page 5

Pond 49: North Outfall

Peak Elev=99.27' Storage=4,036 cf Inflow=23.4 cfs 7.738 af
Primary=20.8 cfs 7.732 af Secondary=0.0 cfs 0.000 af Outflow=20.8 cfs 7.732 af

Pond 50: South Outfall

Peak Elev=96.80' Storage=4,853 cf Inflow=76.7 cfs 41.675 af
Outflow=75.0 cfs 41.674 af

Pond 51: Pipe Crossing

Peak Elev=96.11' Storage=8,439 cf Inflow=95.1 cfs 49.406 af
Outflow=94.1 cfs 49.404 af

Reach 52: Railroad POA

Inflow=94.1 cfs 49.404 af
Outflow=94.1 cfs 49.404 af

6204 PROP Addendum 3 NOAA Type D

NOAA 24-hr D 10 YEAR Rainfall=5.10"

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Page 6

Time span=0.00-90.00 hrs, dt=0.01 hrs, 9001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1: Route 1 SB "A"	Runoff Area=36,793 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=3.6 cfs 0.342 af
Subcatchment2: Commerce Basin 1A	Runoff Area=2.300 ac 0.00% Impervious Runoff Depth=4.08" Tc=10.0 min CN=91.0 Runoff=9.0 cfs 0.782 af
Pond 3: Commerce Basin 1A	Peak Elev=112.24' Storage=0.824 af Inflow=15.1 cfs 2.309 af Outflow=1.6 cfs 2.305 af
Subcatchment4: DOT1 Inflow	Runoff Area=140,608 sf 77.96% Impervious Runoff Depth=4.41" Tc=10.0 min CN=94.0 Runoff=13.2 cfs 1.185 af
Pond 5: DOT1	Peak Elev=112.26' Storage=20,810 cf Inflow=13.2 cfs 1.185 af 15.0" Round Culvert x 2.00 n=0.013 L=300.0' S=0.0023 '/ Outflow=2.6 cfs 1.185 af
Subcatchment6: DOT2 Inflow	Runoff Area=141,921 sf 82.05% Impervious Runoff Depth=4.50" Tc=10.0 min CN=94.8 Runoff=13.4 cfs 1.221 af
Pond 7: DOT2	Peak Elev=110.92' Storage=10,973 cf Inflow=13.4 cfs 1.221 af 18.0" Round Culvert n=0.013 L=500.0' S=0.0012 '/ Outflow=4.8 cfs 1.221 af
Subcatchment8: Route 1 SB "B"	Runoff Area=25,396 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=2.5 cfs 0.236 af
Subcatchment9: Commerce Basin 1B	Runoff Area=4.200 ac 0.00% Impervious Runoff Depth=4.08" Tc=10.0 min CN=91.0 Runoff=16.4 cfs 1.428 af
Pond 10: Commerce Basin 1B	Peak Elev=112.82' Storage=0.846 af Inflow=19.0 cfs 1.921 af Outflow=2.5 cfs 1.908 af
Reach 11: Single 30" Crossing	Inflow=8.8 cfs 5.433 af Outflow=8.8 cfs 5.433 af
Subcatchment12: Route 1 SB "C"	Runoff Area=81,907 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=8.0 cfs 0.762 af
Subcatchment13: Commerce Basin 2	Runoff Area=7.300 ac 0.00% Impervious Runoff Depth=4.19" Tc=10.0 min CN=92.0 Runoff=28.9 cfs 2.547 af
Pond 14: Commerce Basin 2	Peak Elev=113.66' Storage=1.745 af Inflow=36.9 cfs 3.309 af Primary=8.4 cfs 3.031 af Secondary=0.2 cfs 0.257 af Outflow=8.6 cfs 3.287 af
Subcatchment15: Route 1 NB	Runoff Area=81,894 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=8.0 cfs 0.762 af
Reach 16: Double 30" Crossing	Inflow=13.7 cfs 3.792 af Outflow=13.7 cfs 3.792 af

6204 PROP Addendum 3 NOAA Type D

NOAA 24-hr D 10 YEAR Rainfall=5.10"

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Page 7

Subcatchment17: Basin A Impervious Runoff Area=473,190 sf 100.00% Impervious Runoff Depth=4.86"
Tc=10.0 min CN=98.0 Runoff=46.0 cfs 4.402 af

Subcatchment18: Basin A Pervious Runoff Area=306,816 sf 0.00% Impervious Runoff Depth=2.22"
Tc=10.0 min CN=71.3 Runoff=15.7 cfs 1.301 af

Pond 19: Ext. Det. Basin A Peak Elev=107.52' Storage=117,329 cf Inflow=61.7 cfs 5.704 af
Primary=9.8 cfs 5.704 af Secondary=0.0 cfs 0.000 af Outflow=9.8 cfs 5.704 af

Subcatchment20: Basin B Upstream Runoff Area=380,027 sf 100.00% Impervious Runoff Depth=4.86"
Tc=10.0 min CN=98.0 Runoff=36.9 cfs 3.536 af

Subcatchment21: Basin B Upstream Runoff Area=127,336 sf 0.00% Impervious Runoff Depth=2.34"
Tc=10.0 min CN=72.8 Runoff=6.9 cfs 0.571 af

Subcatchment22: Basin B Downstream Runoff Area=787,298 sf 100.00% Impervious Runoff Depth=4.86"
Tc=10.0 min CN=98.0 Runoff=76.5 cfs 7.324 af

Subcatchment23: Basin B Downstream Runoff Area=315,275 sf 0.00% Impervious Runoff Depth=2.69"
Tc=10.0 min CN=76.8 Runoff=19.7 cfs 1.622 af

Pond 24D: Wet Pond Basin B Peak Elev=107.46' Storage=1,030,239 cf Inflow=138.6 cfs 30.176 af
Primary=34.5 cfs 29.917 af Secondary=0.0 cfs 0.000 af Outflow=34.5 cfs 29.917 af

Pond 24U: Wet Pond Basin B Upstream Peak Elev=107.47' Storage=172,502 cf Inflow=58.1 cfs 15.842 af
155.0" x 90.0", R=90.0"/252.0" Pipe Arch Culvert n=0.025 L=50.0' S=0.0000 '/' Outflow=34.9 cfs 15.796 af

Subcatchment25: DOT3 Inflow Runoff Area=117,617 sf 66.20% Impervious Runoff Depth=3.51"
Tc=10.0 min CN=85.5 Runoff=9.4 cfs 0.790 af

Pond 26: DOT3 Peak Elev=113.75' Storage=6,933 cf Inflow=9.4 cfs 0.790 af
24.0" Round Culvert n=0.013 L=150.0' S=0.0000 '/' Outflow=5.3 cfs 0.790 af

Subcatchment27: Basin C Impervious Runoff Area=687,973 sf 100.00% Impervious Runoff Depth=4.86"
Tc=10.0 min CN=98.0 Runoff=66.9 cfs 6.400 af

Subcatchment28: Basin C Pervious Runoff Area=237,424 sf 0.00% Impervious Runoff Depth=1.87"
Flow Length=855' Tc=40.1 min CN=66.9 Runoff=5.2 cfs 0.847 af

Pond 29: Wet Pond Basin C Peak Elev=108.53' Storage=573,032 cf Inflow=86.3 cfs 11.830 af
Primary=20.2 cfs 11.736 af Secondary=0.0 cfs 0.000 af Outflow=20.2 cfs 11.736 af

Reach 30: A+B Combined Outflows Inflow=43.8 cfs 35.621 af
Outflow=43.8 cfs 35.621 af

Reach 31: A+B Combined Overflow Inflow=0.0 cfs 0.000 af
Outflow=0.0 cfs 0.000 af

Subcatchment32: Basin D Impervious Runoff Area=1,512,365 sf 100.00% Impervious Runoff Depth=4.86"
Tc=10.0 min CN=98.0 Runoff=147.0 cfs 14.070 af

6204 PROP Addendum 3 NOAA Type D

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Page 8

Subcatchment32A: Costco Roof	Runoff Area=151,843 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=14.8 cfs 1.413 af
Subcatchment33: Basin D Pervious	Runoff Area=253,903 sf 0.00% Impervious Runoff Depth=2.92" Tc=10.0 min CN=79.3 Runoff=17.1 cfs 1.416 af
Pond 34: Wet Pond Basin D	Peak Elev=99.19' Storage=722,239 cf Inflow=206.9 cfs 52.520 af Primary=83.6 cfs 52.327 af Secondary=0.0 cfs 0.000 af Outflow=83.6 cfs 52.327 af
Subcatchment35: South Pervious	Runoff Area=934,919 sf 0.00% Impervious Runoff Depth=2.57" Tc=117.4 min CN=75.4 Runoff=15.4 cfs 4.589 af
Subcatchment36: South Offsite Pervious	Runoff Area=1,913,280 sf 0.00% Impervious Runoff Depth=1.90" Flow Length=3,705' Tc=161.6 min CN=67.3 Runoff=18.2 cfs 6.941 af
Subcatchment37: Center Impervious	Runoff Area=809,245 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=78.7 cfs 7.529 af
Subcatchment38: Center Pervious	Runoff Area=36,425 sf 0.00% Impervious Runoff Depth=2.98" Tc=10.0 min CN=80.0 Runoff=2.5 cfs 0.208 af
Subcatchment39: Bypass	Runoff Area=292,949 sf 0.00% Impervious Runoff Depth=2.28" Flow Length=560' Tc=64.6 min CN=72.0 Runoff=6.1 cfs 1.275 af
Reach 40: Center Pipe System	Avg. Flow Depth=2.04' Max Vel=9.96 fps Inflow=82.7 cfs 9.011 af 60.0" Round Pipe n=0.010 L=2,700.0' S=0.0040 ' Capacity=214.9 cfs Outflow=74.9 cfs 9.011 af
Subcatchment41: North Impervious	Runoff Area=360,907 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=35.1 cfs 3.358 af
Subcatchment42: North Pervious	Runoff Area=124,971 sf 0.00% Impervious Runoff Depth=2.89" Tc=10.0 min CN=79.0 Runoff=8.4 cfs 0.690 af
Pond 43: EX BASIN	Peak Elev=109.96' Storage=36,541 cf Inflow=43.4 cfs 4.048 af Outflow=14.0 cfs 4.048 af
Subcatchment44: Basin E Impervious	Runoff Area=433,446 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=42.1 cfs 4.032 af
Subcatchment45: Basin E Pervious	Runoff Area=379,832 sf 0.00% Impervious Runoff Depth=2.32" Flow Length=1,170' Tc=49.3 min CN=72.5 Runoff=9.5 cfs 1.684 af
Pond 46: Ext. Det. Basin E	Peak Elev=109.54' Storage=195,222 cf Inflow=57.7 cfs 9.764 af Primary=13.3 cfs 9.764 af Secondary=0.0 cfs 0.000 af Outflow=13.3 cfs 9.764 af
Subcatchment47: East Impervious	Runoff Area=297,257 sf 100.00% Impervious Runoff Depth=4.86" Tc=10.0 min CN=98.0 Runoff=28.9 cfs 2.765 af
Subcatchment48: East Pervious	Runoff Area=89,874 sf 0.00% Impervious Runoff Depth=2.98" Tc=10.0 min CN=80.0 Runoff=6.2 cfs 0.512 af

6204 PROP Addendum 3 NOAA Type D

NOAA 24-hr D 10 YEAR Rainfall=5.10"

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Page 9

Pond 49: North Outfall

Peak Elev=99.76' Storage=9,664 cf Inflow=41.1 cfs 13.042 af
Primary=33.1 cfs 13.036 af Secondary=0.0 cfs 0.000 af Outflow=33.1 cfs 13.036 af

Pond 50: South Outfall

Peak Elev=97.95' Storage=27,337 cf Inflow=142.9 cfs 72.868 af
Outflow=124.3 cfs 72.867 af

Pond 51: Pipe Crossing

Peak Elev=97.15' Storage=14,821 cf Inflow=152.0 cfs 85.903 af
Outflow=151.5 cfs 85.901 af

Reach 52: Railroad POA

Inflow=151.5 cfs 85.901 af
Outflow=151.5 cfs 85.901 af

6204 PROP Addendum 3 NOAA Type D

NOAA 24-hr D 100 YEAR Rainfall=8.60"

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Page 10

Time span=0.00-90.00 hrs, dt=0.01 hrs, 9001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1: Route 1 SB "A"	Runoff Area=36,793 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=6.1 cfs 0.588 af
Subcatchment2: Commerce Basin 1A	Runoff Area=2.300 ac 0.00% Impervious Runoff Depth=7.52" Tc=10.0 min CN=91.0 Runoff=15.9 cfs 1.441 af
Pond 3: Commerce Basin 1A	Peak Elev=114.27' Storage=1.428 af Inflow=24.2 cfs 4.148 af Outflow=2.1 cfs 4.143 af
Subcatchment4: DOT1 Inflow	Runoff Area=140,608 sf 77.96% Impervious Runoff Depth=7.88" Tc=10.0 min CN=94.0 Runoff=22.8 cfs 2.119 af
Pond 5: DOT1	Peak Elev=114.30' Storage=46,974 cf Inflow=22.8 cfs 2.119 af 15.0" Round Culvert x 2.00 n=0.013 L=300.0' S=0.0023 '/ Outflow=2.3 cfs 2.118 af
Subcatchment6: DOT2 Inflow	Runoff Area=141,921 sf 82.05% Impervious Runoff Depth=7.98" Tc=10.0 min CN=94.8 Runoff=23.1 cfs 2.165 af
Pond 7: DOT2	Peak Elev=112.09' Storage=22,244 cf Inflow=23.1 cfs 2.165 af 18.0" Round Culvert n=0.013 L=500.0' S=0.0012 '/ Outflow=6.7 cfs 2.165 af
Subcatchment8: Route 1 SB "B"	Runoff Area=25,396 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=4.2 cfs 0.406 af
Subcatchment9: Commerce Basin 1B	Runoff Area=4.200 ac 0.00% Impervious Runoff Depth=7.52" Tc=10.0 min CN=91.0 Runoff=29.0 cfs 2.631 af
Pond 10: Commerce Basin 1B	Peak Elev=114.08' Storage=1.562 af Inflow=33.4 cfs 3.273 af Outflow=3.4 cfs 3.260 af
Reach 11: Single 30" Crossing	Inflow=12.0 cfs 9.568 af Outflow=12.0 cfs 9.568 af
Subcatchment12: Route 1 SB "C"	Runoff Area=81,907 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=13.5 cfs 1.310 af
Subcatchment13: Commerce Basin 2	Runoff Area=7.300 ac 0.00% Impervious Runoff Depth=7.64" Tc=10.0 min CN=92.0 Runoff=50.9 cfs 4.646 af
Pond 14: Commerce Basin 2	Peak Elev=114.50' Storage=2.721 af Inflow=64.3 cfs 5.956 af Primary=14.4 cfs 5.698 af Secondary=0.2 cfs 0.236 af Outflow=14.6 cfs 5.934 af
Subcatchment15: Route 1 NB	Runoff Area=81,894 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=13.5 cfs 1.310 af
Reach 16: Double 30" Crossing	Inflow=25.1 cfs 7.008 af Outflow=25.1 cfs 7.008 af

6204 PROP Addendum 3 NOAA Type D

NOAA 24-hr D 100 YEAR Rainfall=8.60"

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Page 11

Subcatchment17: Basin A Impervious Runoff Area=473,190 sf 100.00% Impervious Runoff Depth=8.36"
Tc=10.0 min CN=98.0 Runoff=77.8 cfs 7.568 af

Subcatchment18: Basin A Pervious Runoff Area=306,816 sf 0.00% Impervious Runoff Depth=5.14"
Tc=10.0 min CN=71.3 Runoff=36.4 cfs 3.017 af

Pond 19: Ext. Det. Basin A Peak Elev=109.38' Storage=218,193 cf Inflow=114.2 cfs 10.585 af
Primary=15.3 cfs 10.585 af Secondary=0.0 cfs 0.000 af Outflow=15.3 cfs 10.585 af

Subcatchment20: Basin B Upstream Runoff Area=380,027 sf 100.00% Impervious Runoff Depth=8.36"
Tc=10.0 min CN=98.0 Runoff=62.5 cfs 6.078 af

Subcatchment21: Basin B Upstream Runoff Area=127,336 sf 0.00% Impervious Runoff Depth=5.32"
Tc=10.0 min CN=72.8 Runoff=15.6 cfs 1.296 af

Subcatchment22: Basin B Downstream Runoff Area=787,298 sf 100.00% Impervious Runoff Depth=8.36"
Tc=10.0 min CN=98.0 Runoff=129.5 cfs 12.591 af

Subcatchment23: Basin B Downstream Runoff Area=315,275 sf 0.00% Impervious Runoff Depth=5.80"
Tc=10.0 min CN=76.8 Runoff=41.7 cfs 3.500 af

Pond 24D: Wet Pond Basin B Peak Elev=108.91' Storage=1,270,317 cf Inflow=239.5 cfs 54.536 af
Primary=52.4 cfs 54.262 af Secondary=0.0 cfs 0.000 af Outflow=52.4 cfs 54.262 af

Pond 24U: Wet Pond Basin B Upstream Peak Elev=108.92' Storage=222,978 cf Inflow=99.5 cfs 28.925 af
155.0" x 90.0", R=90.0"/252.0" Pipe Arch Culvert n=0.025 L=50.0' S=0.0000 '/' Outflow=58.3 cfs 28.876 af

Subcatchment25: DOT3 Inflow Runoff Area=117,617 sf 66.20% Impervious Runoff Depth=6.85"
Tc=10.0 min CN=85.5 Runoff=17.7 cfs 1.542 af

Pond 26: DOT3 Peak Elev=114.38' Storage=12,525 cf Inflow=17.7 cfs 1.542 af
24.0" Round Culvert n=0.013 L=150.0' S=0.0000 '/' Outflow=9.5 cfs 1.542 af

Subcatchment27: Basin C Impervious Runoff Area=687,973 sf 100.00% Impervious Runoff Depth=8.36"
Tc=10.0 min CN=98.0 Runoff=113.1 cfs 11.003 af

Subcatchment28: Basin C Pervious Runoff Area=237,424 sf 0.00% Impervious Runoff Depth=4.61"
Flow Length=855' Tc=40.1 min CN=66.9 Runoff=13.4 cfs 2.095 af

Pond 29: Wet Pond Basin C Peak Elev=110.65' Storage=757,734 cf Inflow=151.8 cfs 21.647 af
Primary=27.1 cfs 21.551 af Secondary=0.0 cfs 0.000 af Outflow=27.1 cfs 21.551 af

Reach 30: A+B Combined Outflows Inflow=66.4 cfs 64.847 af
Outflow=66.4 cfs 64.847 af

Reach 31: A+B Combined Overflow Inflow=0.0 cfs 0.000 af
Outflow=0.0 cfs 0.000 af

Subcatchment32: Basin D Impervious Runoff Area=1,512,365 sf 100.00% Impervious Runoff Depth=8.36"
Tc=10.0 min CN=98.0 Runoff=248.7 cfs 24.187 af

6204 PROP Addendum 3 NOAA Type D

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Page 12

Subcatchment32A: Costco Roof	Runoff Area=151,843 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=25.0 cfs 2.428 af
Subcatchment33: Basin D Pervious	Runoff Area=253,903 sf 0.00% Impervious Runoff Depth=6.11" Tc=10.0 min CN=79.3 Runoff=35.0 cfs 2.965 af
Pond 34: Wet Pond Basin D	Peak Elev=100.63' Storage=882,793 cf Inflow=357.9 cfs 94.428 af Primary=179.0 cfs 94.224 af Secondary=0.0 cfs 0.000 af Outflow=179.0 cfs 94.224 af
Subcatchment35: South Pervious	Runoff Area=934,919 sf 0.00% Impervious Runoff Depth=5.63" Tc=117.4 min CN=75.4 Runoff=34.0 cfs 10.078 af
Subcatchment36: South Offsite Pervious	Runoff Area=1,913,280 sf 0.00% Impervious Runoff Depth=4.66" Flow Length=3,705' Tc=161.6 min CN=67.3 Runoff=46.8 cfs 17.057 af
Subcatchment37: Center Impervious	Runoff Area=809,245 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=133.1 cfs 12.942 af
Subcatchment38: Center Pervious	Runoff Area=36,425 sf 0.00% Impervious Runoff Depth=6.19" Tc=10.0 min CN=80.0 Runoff=5.1 cfs 0.431 af
Subcatchment39: Bypass	Runoff Area=292,949 sf 0.00% Impervious Runoff Depth=5.22" Flow Length=560' Tc=64.6 min CN=72.0 Runoff=14.3 cfs 2.928 af
Reach 40: Center Pipe System	Avg. Flow Depth=2.82' Max Vel=11.48 fps Inflow=142.5 cfs 16.302 af 60.0" Round Pipe n=0.010 L=2,700.0' S=0.0040 ' Capacity=214.9 cfs Outflow=131.1 cfs 16.302 af
Subcatchment41: North Impervious	Runoff Area=360,907 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=59.4 cfs 5.772 af
Subcatchment42: North Pervious	Runoff Area=124,971 sf 0.00% Impervious Runoff Depth=6.07" Tc=10.0 min CN=79.0 Runoff=17.2 cfs 1.451 af
Pond 43: EX BASIN	Peak Elev=111.10' Storage=91,854 cf Inflow=76.5 cfs 7.223 af Outflow=13.9 cfs 7.223 af
Subcatchment44: Basin E Impervious	Runoff Area=433,446 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=71.3 cfs 6.932 af
Subcatchment45: Basin E Pervious	Runoff Area=379,832 sf 0.00% Impervious Runoff Depth=5.28" Flow Length=1,170' Tc=49.3 min CN=72.5 Runoff=21.9 cfs 3.840 af
Pond 46: Ext. Det. Basin E	Peak Elev=110.46' Storage=265,449 cf Inflow=93.1 cfs 17.995 af Primary=42.0 cfs 17.995 af Secondary=0.0 cfs 0.000 af Outflow=42.0 cfs 17.995 af
Subcatchment47: East Impervious	Runoff Area=297,257 sf 100.00% Impervious Runoff Depth=8.36" Tc=10.0 min CN=98.0 Runoff=48.9 cfs 4.754 af
Subcatchment48: East Pervious	Runoff Area=89,874 sf 0.00% Impervious Runoff Depth=6.19" Tc=10.0 min CN=80.0 Runoff=12.5 cfs 1.064 af

6204 PROP Addendum 3 NOAA Type D

NOAA 24-hr D 100 YEAR Rainfall=8.60"

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Page 13

Pond 49: North Outfall

Peak Elev=100.26' Storage=19,284 cf Inflow=75.1 cfs 23.814 af
Primary=47.4 cfs 23.066 af Secondary=22.0 cfs 0.742 af Outflow=69.3 cfs 23.807 af

Pond 50: South Outfall

Peak Elev=99.68' Storage=329,848 cf Inflow=320.1 cfs 138.402 af
Outflow=184.5 cfs 138.401 af

Pond 51: Pipe Crossing

Peak Elev=98.58' Storage=29,544 cf Inflow=215.7 cfs 161.466 af
Outflow=215.6 cfs 161.465 af

Reach 52: Railroad POA

Inflow=215.6 cfs 161.465 af
Outflow=215.6 cfs 161.465 af