

340656 - Rantoul Transfer Station - PropdL-Rantoul 5-yr Duration=120 min, Inten=1.10 in/hr

Prepared by CEC Inc

Printed 12/9/2025

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Summary for Pond I61: Manhole 6-1

[57] Hint: Peaked at 749.06' (Flood elevation advised)

[62] Hint: Exceeded Reach R62 OUTLET depth by 0.09' @ 2.03 hrs

Inflow Area = 2.408 ac, 0.00% Impervious, Inflow Depth > 1.03" for 5-yr event
 Inflow = 1.25 cfs @ 0.92 hrs, Volume= 0.207 af
 Outflow = 1.25 cfs @ 0.93 hrs, Volume= 0.207 af, Atten= 0%, Lag= 0.6 min
 Primary = 1.25 cfs @ 0.93 hrs, Volume= 0.207 af
 Routed to Reach R61 : Pipe I61 to I31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 749.06' @ 0.91 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	748.55'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	748.61'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

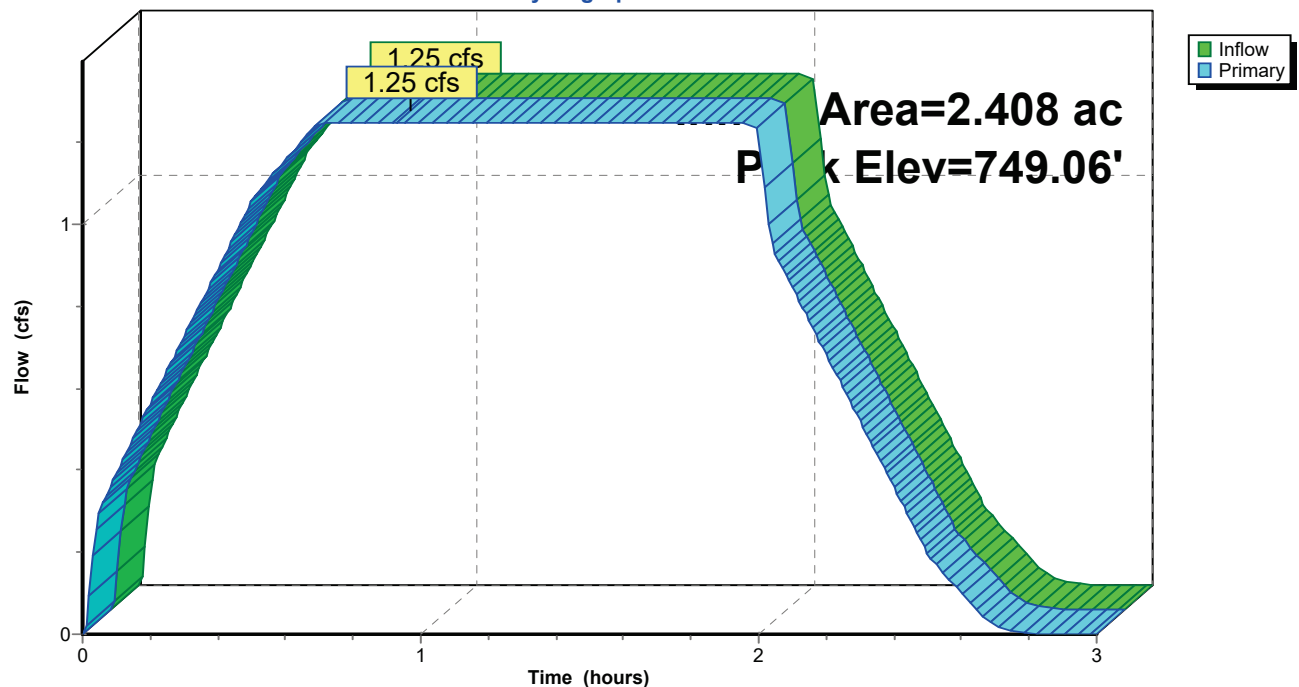
Primary OutFlow Max=1.25 cfs @ 0.93 hrs HW=749.06' TW=748.96' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 0.72 cfs @ 1.54 fps)

2=Orifice/Grate (Orifice Controls 0.53 cfs @ 1.54 fps)

Pond I61: Manhole 6-1

Hydrograph



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Summary for Pond I62: Inlet 6-2

[57] Hint: Peaked at 749.78' (Flood elevation advised)

[62] Hint: Exceeded Reach R63 OUTLET depth by 0.14' @ 0.05 hrs

Inflow Area = 1.749 ac, 0.00% Impervious, Inflow Depth > 1.03" for 5-yr event
 Inflow = 0.91 cfs @ 0.91 hrs, Volume= 0.150 af
 Outflow = 0.91 cfs @ 0.91 hrs, Volume= 0.150 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.91 cfs @ 0.91 hrs, Volume= 0.150 af
 Routed to Reach R62 : Pipe I62 to I61

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 749.78' @ 0.89 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	749.32'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	749.35'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

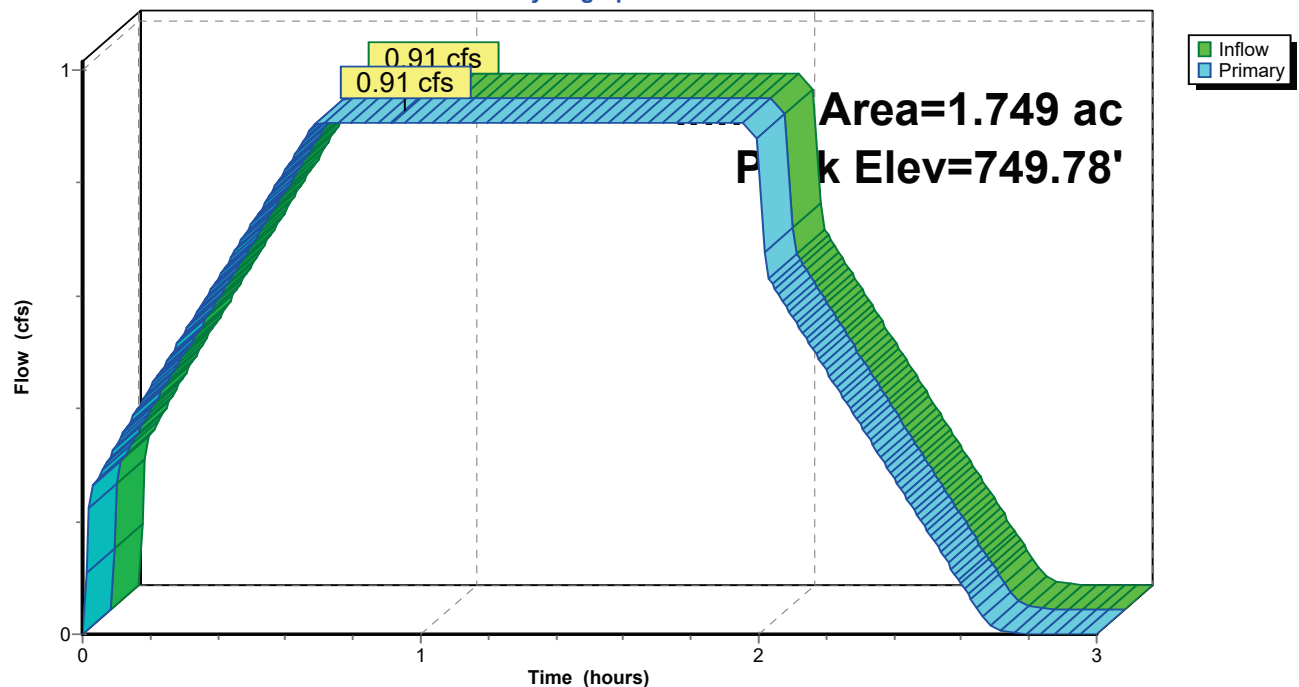
Primary OutFlow Max=0.91 cfs @ 0.91 hrs HW=749.78' TW=749.70' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 0.47 cfs @ 1.35 fps)

2=Orifice/Grate (Orifice Controls 0.43 cfs @ 1.35 fps)

Pond I62: Inlet 6-2

Hydrograph



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Summary for Pond I63: Inlet 6-3

[57] Hint: Peaked at 750.38' (Flood elevation advised)

[63] Warning: Exceeded Reach R54 INLET depth by 0.08' @ 0.87 hrs

Inflow Area = 1.364 ac, 0.00% Impervious, Inflow Depth = 0.95" for 5-yr event
 Inflow = 0.65 cfs @ 0.68 hrs, Volume= 0.108 af
 Outflow = 0.65 cfs @ 0.69 hrs, Volume= 0.108 af, Atten= 0%, Lag= 0.6 min
 Primary = 0.65 cfs @ 0.69 hrs, Volume= 0.108 af
 Routed to Reach R63 : Pipe I63 to I62

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 750.38' @ 0.87 hrs

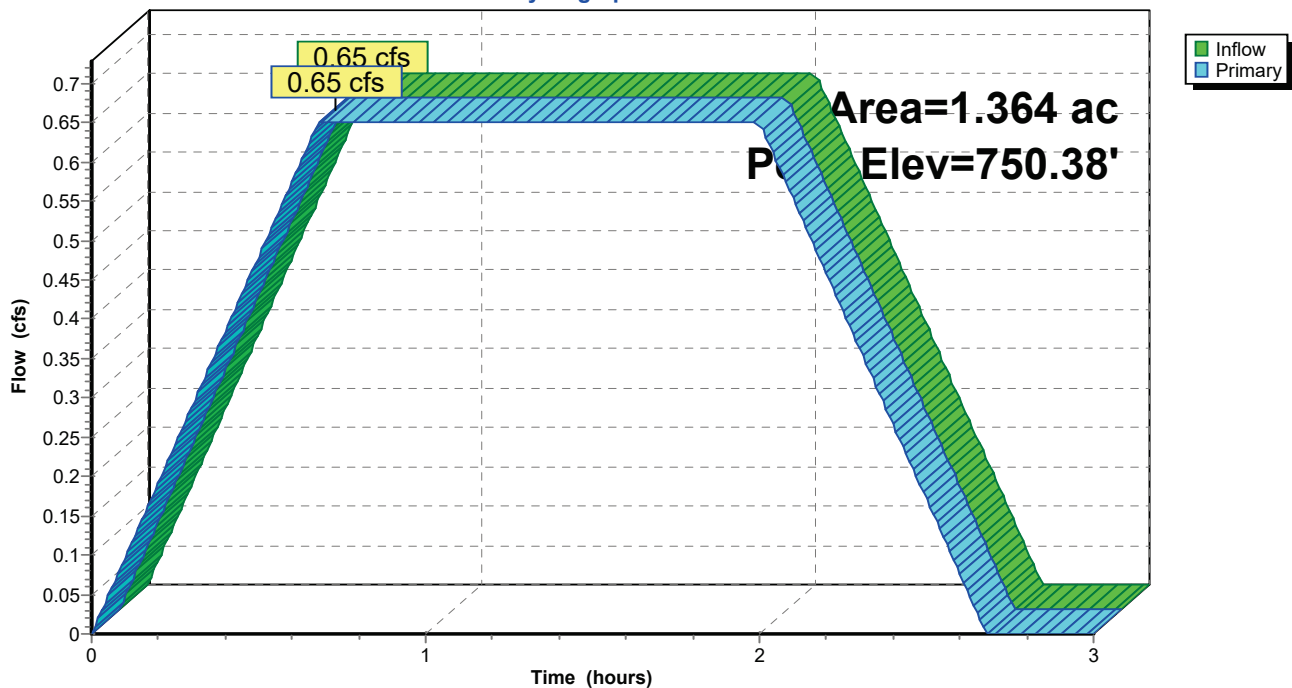
Device	Routing	Invert	Outlet Devices
#1	Primary	749.91'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.65 cfs @ 0.69 hrs HW=750.38' TW=750.25' (Dynamic Tailwater)

↑1=Orifice/Grate (Orifice Controls 0.65 cfs @ 1.78 fps)

Pond I63: Inlet 6-3

Hydrograph



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Summary for Pond I71: Inlet 7-1

[57] Hint: Peaked at 748.37' (Flood elevation advised)

[62] Hint: Exceeded Reach R81 OUTLET depth by 0.36' @ 2.03 hrs

Inflow Area = 2.152 ac, 49.07% Impervious, Inflow Depth = 1.52" for 5-yr event
 Inflow = 1.65 cfs @ 0.69 hrs, Volume= 0.273 af
 Outflow = 1.65 cfs @ 0.70 hrs, Volume= 0.273 af, Atten= 0%, Lag= 0.6 min
 Primary = 1.65 cfs @ 0.70 hrs, Volume= 0.273 af
 Routed to Reach R71 : Pipe I71 to I15

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 748.37' @ 0.62 hrs

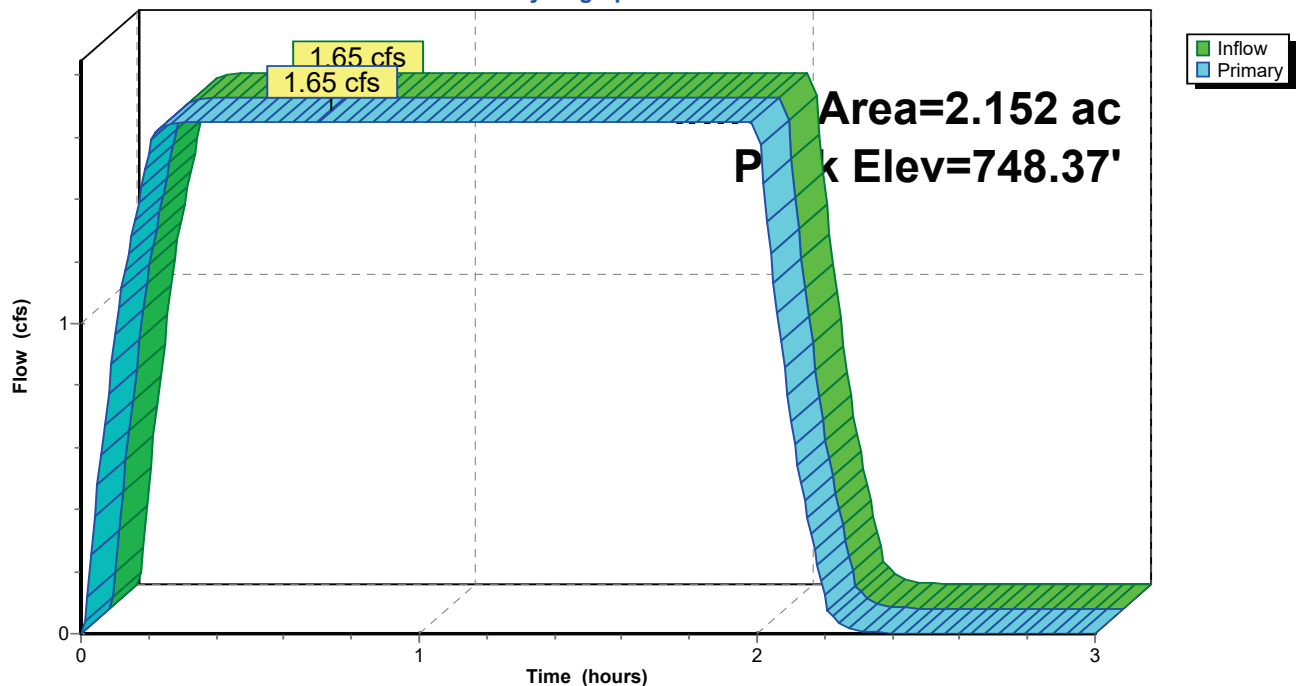
Device	Routing	Invert	Outlet Devices
#1	Primary	747.78'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	747.78'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	748.93'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.65 cfs @ 0.70 hrs HW=748.37' TW=748.25' (Dynamic Tailwater)

- 1=Orifice/Grate (Orifice Controls 0.82 cfs @ 1.70 fps)
- 2=Orifice/Grate (Orifice Controls 0.82 cfs @ 1.70 fps)
- 3=Orifice/Grate (Controls 0.00 cfs)

Pond I71: Inlet 7-1

Hydrograph



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Summary for Pond I81: Inlet 8-1

[57] Hint: Peaked at 748.95' (Flood elevation advised)

[62] Hint: Exceeded Reach R13 OUTLET depth by 0.15' @ 2.02 hrs

[62] Hint: Exceeded Reach R82 OUTLET depth by 0.06' @ 0.29 hrs

Inflow Area = 0.792 ac, 48.74% Impervious, Inflow Depth = 1.40" for 5-yr event
 Inflow = 0.56 cfs @ 0.35 hrs, Volume= 0.093 af
 Outflow = 0.56 cfs @ 0.35 hrs, Volume= 0.093 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.56 cfs @ 0.35 hrs, Volume= 0.093 af
 Routed to Reach R81 : Pipe I81 to I71

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 748.95' @ 0.29 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	748.66'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	748.69'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	748.70'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.56 cfs @ 0.35 hrs HW=748.95' TW=748.90' (Dynamic Tailwater)

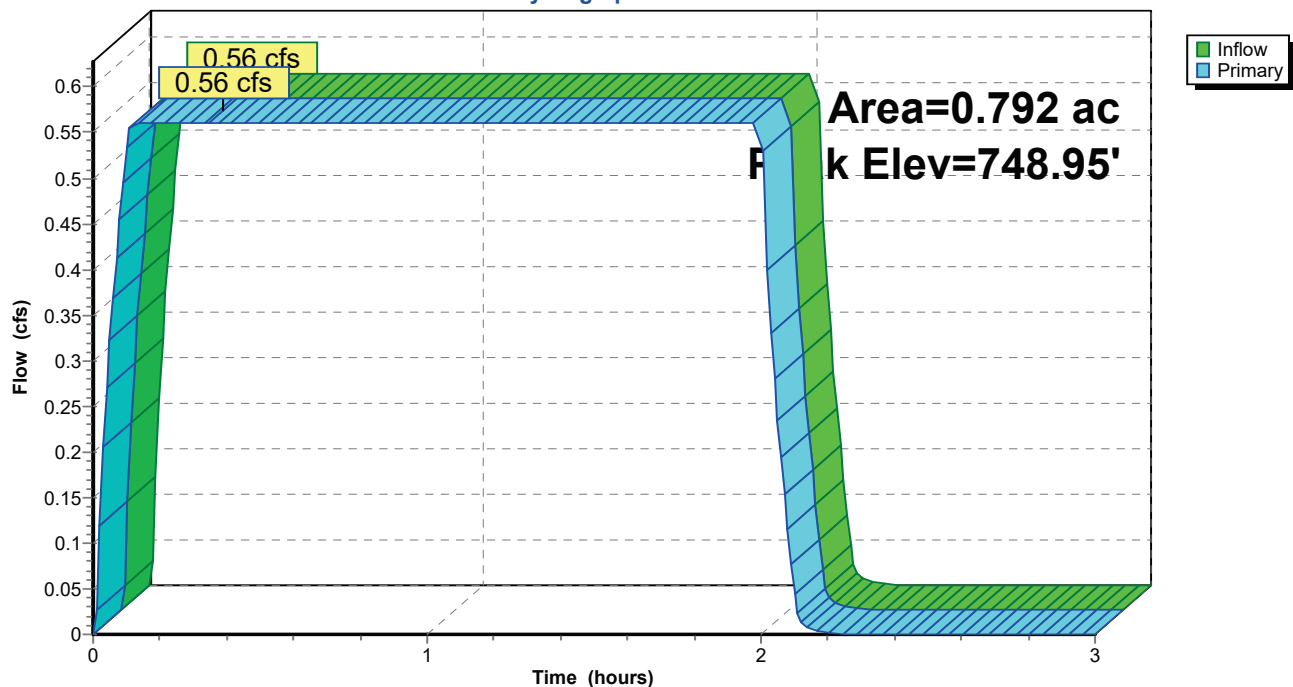
1=Orifice/Grate (Orifice Controls 0.21 cfs @ 1.11 fps)

2=Orifice/Grate (Orifice Controls 0.18 cfs @ 1.11 fps)

3=Orifice/Grate (Orifice Controls 0.17 cfs @ 1.11 fps)

Pond I81: Inlet 8-1

Hydrograph



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Summary for Pond I82: Inlet 8-2

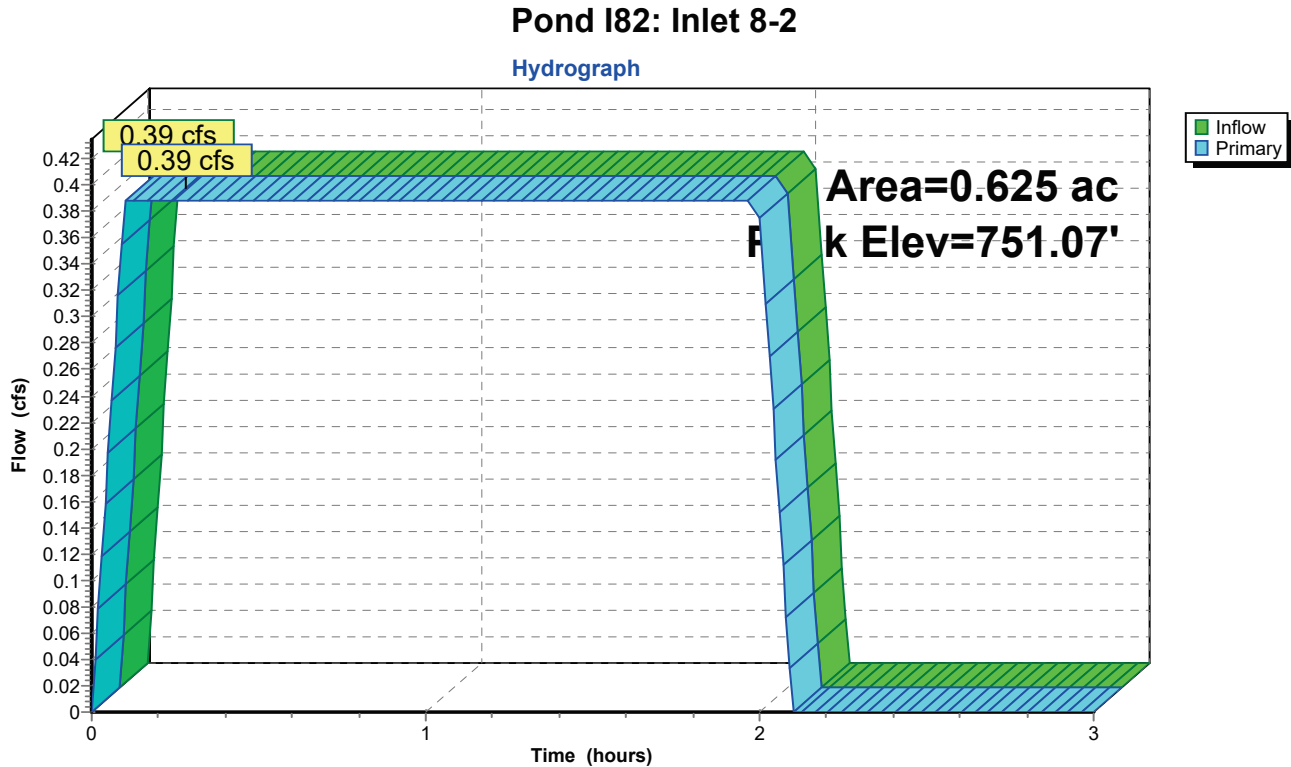
[57] Hint: Peaked at 751.07' (Flood elevation advised)

Inflow Area = 0.625 ac, 35.68% Impervious, Inflow Depth = 1.23" for 5-yr event
 Inflow = 0.39 cfs @ 0.10 hrs, Volume= 0.064 af
 Outflow = 0.39 cfs @ 0.24 hrs, Volume= 0.064 af, Atten= 0%, Lag= 8.4 min
 Primary = 0.39 cfs @ 0.24 hrs, Volume= 0.064 af
 Routed to Reach R82 : Pipe I82 to I81

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 751.07' @ 0.27 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	750.74'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.39 cfs @ 0.24 hrs HW=751.07' TW=750.93' (Dynamic Tailwater)
 ↑ **1=Orifice/Grate** (Orifice Controls 0.39 cfs @ 1.75 fps)



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Summary for Pond I91: Inlet 9-1

[57] Hint: Peaked at 750.61' (Flood elevation advised)

[62] Hint: Exceeded Reach R92 OUTLET depth by 0.08' @ 2.03 hrs

Inflow Area = 0.640 ac, 25.31% Impervious, Inflow Depth = 1.39" for 5-yr event
 Inflow = 0.45 cfs @ 0.52 hrs, Volume= 0.074 af
 Outflow = 0.45 cfs @ 0.53 hrs, Volume= 0.074 af, Atten= 0%, Lag= 0.6 min
 Primary = 0.45 cfs @ 0.53 hrs, Volume= 0.074 af
 Routed to Reach R91 : Pipe I91 to I71

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 750.61' @ 0.59 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	750.30'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	750.30'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

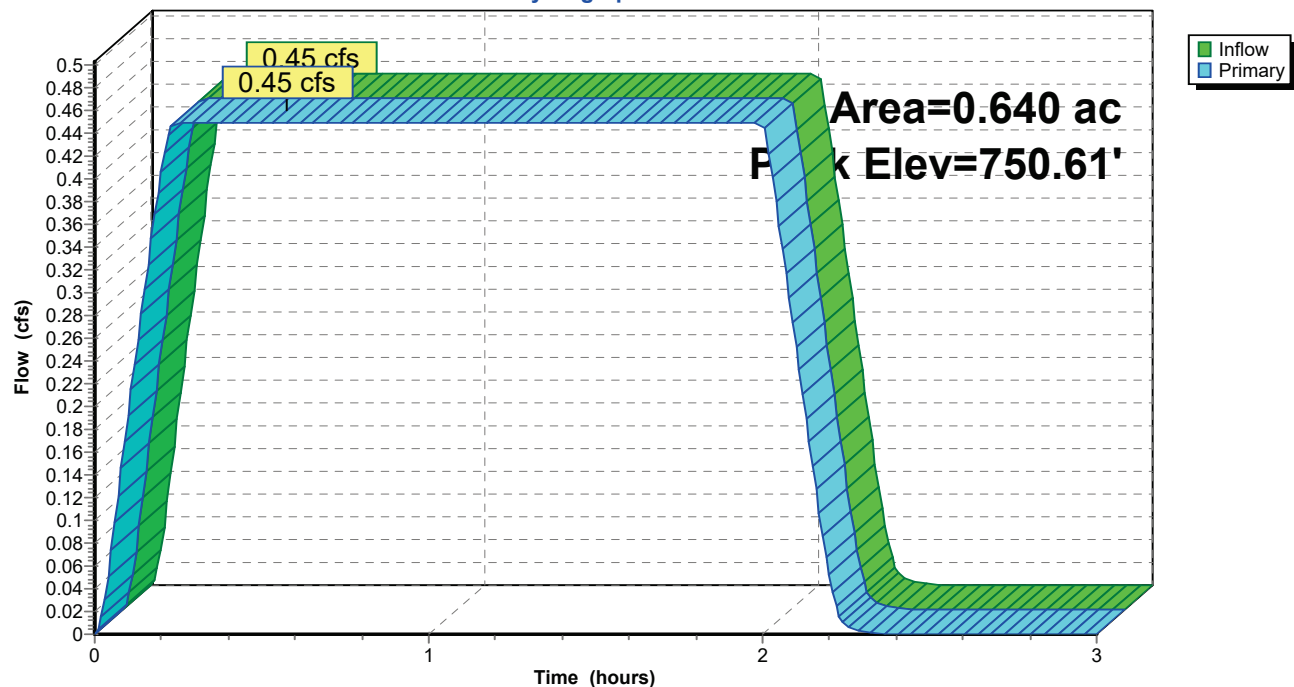
Primary OutFlow Max=0.45 cfs @ 0.53 hrs HW=750.61' TW=750.56' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 0.22 cfs @ 1.10 fps)

2=Orifice/Grate (Orifice Controls 0.22 cfs @ 1.10 fps)

Pond I91: Inlet 9-1

Hydrograph



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Summary for Pond I92: Inlet 9-2

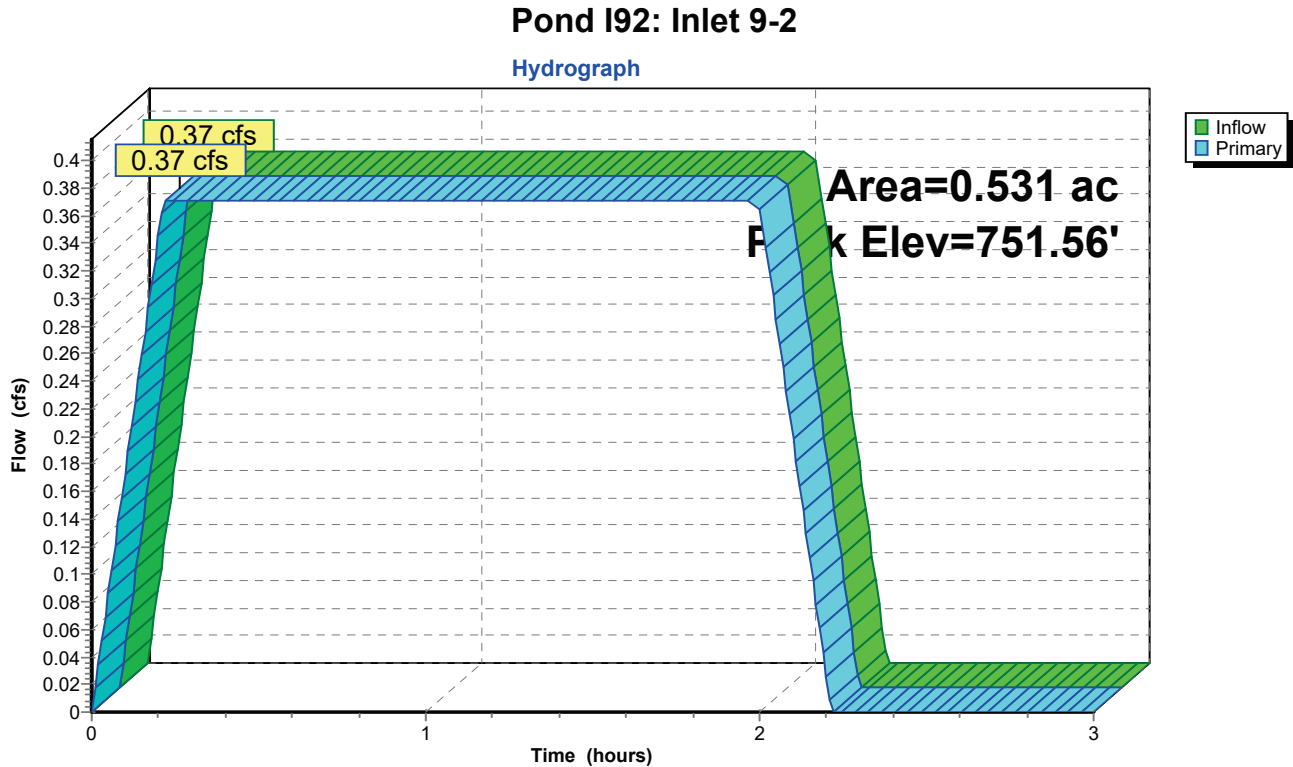
[57] Hint: Peaked at 751.56' (Flood elevation advised)

Inflow Area = 0.531 ac, 21.66% Impervious, Inflow Depth = 1.39" for 5-yr event
 Inflow = 0.37 cfs @ 0.22 hrs, Volume= 0.061 af
 Outflow = 0.37 cfs @ 0.22 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.37 cfs @ 0.22 hrs, Volume= 0.061 af
 Routed to Reach R92 : Pipe I92 to I91

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 751.56' @ 0.44 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	751.22'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.36 cfs @ 0.22 hrs HW=751.55' TW=751.45' (Dynamic Tailwater)
 ↑ **1=Orifice/Grate** (Orifice Controls 0.36 cfs @ 1.58 fps)



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Summary for Pond P1: Detention Pond

[44] Hint: Outlet device #1 is below defined storage

[62] Hint: Exceeded Reach R14 OUTLET depth by 0.76' @ 2.83 hrs

Inflow Area = 12.789 ac, 22.18% Impervious, Inflow Depth > 1.17" for 5-yr event
 Inflow = 7.55 cfs @ 0.97 hrs, Volume= 1.249 af
 Outflow = 2.45 cfs @ 2.17 hrs, Volume= 0.525 af, Atten= 68%, Lag= 72.2 min
 Primary = 2.45 cfs @ 2.17 hrs, Volume= 0.525 af
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 737.72' @ 2.17 hrs Surf.Area= 0.905 ac Storage= 0.848 af

Plug-Flow detention time= 64.2 min calculated for 0.525 af (42% of inflow)

Center-of-Mass det. time= 28.4 min (98.6 - 70.2)

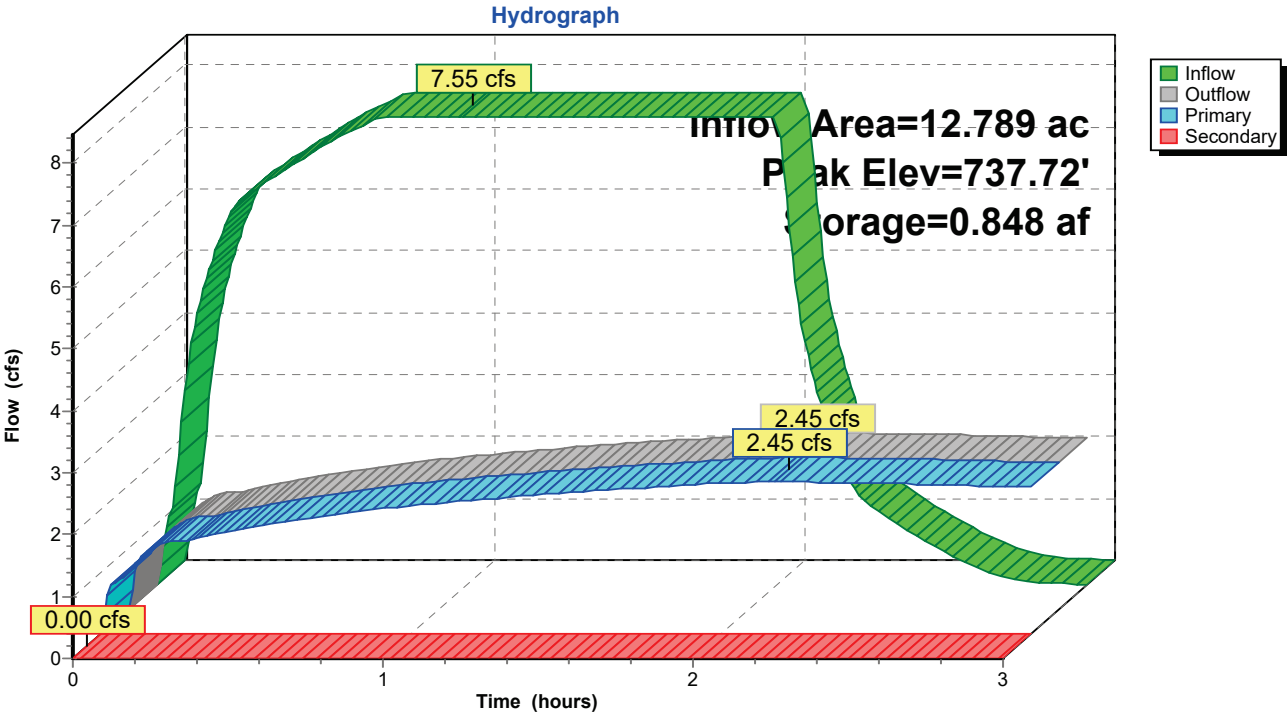
Volume	Invert	Avail.Storage	Storage Description
#1	736.00'	3.653 af	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
736.00	0.024	0.000	0.000
737.00	0.592	0.308	0.308
738.00	1.025	0.809	1.117
739.00	1.170	1.097	2.214
739.50	1.276	0.611	2.825
740.14	1.310	0.828	3.653

Device	Routing	Invert	Outlet Devices
#1	Primary	735.51'	8.0" Round Culvert L= 50.4' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 735.51' / 734.98' S= 0.0105 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 0.35 sf
#2	Secondary	739.50'	33.0' long x 8.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=2.45 cfs @ 2.17 hrs HW=737.72' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.45 cfs @ 7.03 fps)**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=736.00' (Free Discharge)↑**2=Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

Pond P1: Detention Pond



340656 - Rantoul Transfer Station - Proposed Conditions Rational

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Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)	Node Name
1	R13	750.17	748.69	149.2	0.0099	0.010	0.0	12.0	0.0	
2	R14	741.84	736.82	148.6	0.0338	0.012	0.0	24.0	0.0	
3	R15	744.87	743.36	147.0	0.0103	0.012	0.0	24.0	0.0	
4	R16	749.30	748.18	108.0	0.0104	0.012	0.0	12.0	0.0	
5	R17	745.50	744.50	20.0	0.0500	0.012	0.0	6.0	0.0	
6	R18	743.36	736.82	147.0	0.0445	0.012	0.0	24.0	0.0	
7	R19	745.41	743.36	46.0	0.0446	0.012	0.0	12.0	0.0	
8	R21	746.00	744.88	223.0	0.0050	0.012	0.0	24.0	0.0	
9	R31	747.75	747.18	154.3	0.0037	0.012	0.0	18.0	0.0	
10	R41	748.86	748.17	324.3	0.0021	0.010	0.0	12.0	0.0	
11	R51	749.07	747.75	123.9	0.0107	0.012	0.0	15.0	0.0	
12	R52	750.10	749.10	114.4	0.0087	0.012	0.0	12.0	0.0	
13	R53	750.43	750.26	62.2	0.0027	0.010	0.0	6.0	0.0	
14	R54	750.30	749.91	63.0	0.0062	0.010	0.0	6.0	0.0	
15	R61	748.55	747.75	133.8	0.0060	0.012	0.0	15.0	0.0	
16	R62	749.32	748.61	122.3	0.0058	0.012	0.0	12.0	0.0	
17	R63	749.91	749.35	117.3	0.0048	0.012	0.0	12.0	0.0	
18	R71	747.78	744.96	307.3	0.0092	0.012	0.0	12.0	0.0	
19	R81	748.66	747.78	63.2	0.0139	0.012	0.0	12.0	0.0	
20	R82	750.74	748.70	136.0	0.0150	0.012	0.0	12.0	0.0	
21	R91	750.30	748.93	206.5	0.0066	0.012	0.0	12.0	0.0	
22	R92	751.22	750.30	134.2	0.0069	0.012	0.0	12.0	0.0	
23	P1	735.51	734.98	50.4	0.0105	0.010	0.0	8.0	0.0	

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Time span=0.00-3.00 hrs, dt=0.01 hrs, 301 points
 Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

SubcatchmentCA10: South Scale Area	Runoff Area=0.371 ac 0.00% Impervious Runoff Depth=0.22" Flow Length=218' Tc=13.3 min C=0.30 Runoff=0.50 cfs 0.007 af
SubcatchmentCA11: North Scale Area	Runoff Area=0.625 ac 35.68% Impervious Runoff Depth=0.56" Flow Length=168' Tc=5.9 min C=0.56 Runoff=2.11 cfs 0.029 af
SubcatchmentCA12: Building Entrance	Runoff Area=0.720 ac 70.56% Impervious Runoff Depth=0.63" Flow Length=376' Tc=12.6 min C=0.80 Runoff=2.71 cfs 0.038 af
SubcatchmentCA13: South Building Area	Runoff Area=0.167 ac 97.60% Impervious Runoff Depth=0.92" Flow Length=85' Slope=0.0100 '/' Tc=0.7 min C=0.93 Runoff=0.94 cfs 0.013 af
SubcatchmentCA14: North Building Area	Runoff Area=0.503 ac 100.00% Impervious Runoff Depth=0.94" Flow Length=162' Slope=0.0100 '/' Tc=1.3 min C=0.95 Runoff=2.88 cfs 0.040 af
SubcatchmentCA15: West Building Area	Runoff Area=0.650 ac 7.23% Impervious Runoff Depth=0.26" Flow Length=175' Tc=13.3 min C=0.35 Runoff=1.01 cfs 0.014 af
SubcatchmentCA16: East Access Road	Runoff Area=0.109 ac 43.12% Impervious Runoff Depth=0.59" Flow Length=172' Tc=11.0 min C=0.65 Runoff=0.38 cfs 0.005 af
SubcatchmentCA17: East Building Area	Runoff Area=0.531 ac 21.66% Impervious Runoff Depth=0.49" Flow Length=221' Tc=12.9 min C=0.63 Runoff=1.54 cfs 0.022 af
SubcatchmentCA18: SE 1 Parking Area	Runoff Area=0.156 ac 0.00% Impervious Runoff Depth=0.53" Flow Length=146' Tc=7.8 min C=0.53 Runoff=0.50 cfs 0.007 af
SubcatchmentCA19: SE 2 Parking Area	Runoff Area=2.030 ac 0.30% Impervious Runoff Depth=0.11" Flow Length=694' Tc=40.1 min C=0.45 Runoff=1.35 cfs 0.019 af
SubcatchmentCA20: NE Parking Area	Runoff Area=1.364 ac 0.00% Impervious Runoff Depth=0.11" Flow Length=738' Tc=40.7 min C=0.43 Runoff=0.85 cfs 0.012 af
SubcatchmentCA21: N Central Parking Area	Runoff Area=0.385 ac 0.00% Impervious Runoff Depth=0.59" Flow Length=92' Slope=0.0121 '/' Tc=1.4 min C=0.60 Runoff=1.39 cfs 0.019 af
SubcatchmentCA22: S Central Parking Area	Runoff Area=0.354 ac 5.65% Impervious Runoff Depth=0.62" Flow Length=86' Slope=0.0137 '/' Tc=1.3 min C=0.62 Runoff=1.32 cfs 0.018 af
SubcatchmentCA23: NW Parking Area	Runoff Area=0.659 ac 0.00% Impervious Runoff Depth=0.15" Flow Length=203' Tc=30.5 min C=0.47 Runoff=0.60 cfs 0.008 af
SubcatchmentCA24: SW Parking Area	Runoff Area=0.510 ac 6.86% Impervious Runoff Depth=0.47" Flow Length=179' Tc=12.3 min C=0.58 Runoff=1.42 cfs 0.020 af
SubcatchmentCA6: Pond Catchment Area	Runoff Area=2.266 ac 13.02% Impervious Runoff Depth=0.39" Flow Length=218' Slope=0.0698 '/' Tc=2.0 min C=0.39 Runoff=5.33 cfs 0.073 af

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SubcatchmentCA7: NE Station Area	Runoff Area=0.750 ac 33.20% Impervious Runoff Depth=0.33" Flow Length=258' Tc=15.8 min C=0.52 Runoff=1.46 cfs 0.020 af
SubcatchmentCA8: East Station Area	Runoff Area=0.504 ac 97.62% Impervious Runoff Depth=0.92" Flow Length=219' Tc=3.9 min C=0.93 Runoff=2.82 cfs 0.039 af
SubcatchmentCA9: SE Station Area	Runoff Area=0.135 ac 98.52% Impervious Runoff Depth=0.94" Flow Length=117' Tc=3.1 min C=0.94 Runoff=0.76 cfs 0.011 af
Reach R13: Pipe CA13 to I81	Avg. Flow Depth=0.31' Max Vel=4.60 fps Inflow=0.94 cfs 0.013 af 12.0" Round Pipe n=0.010 L=149.2' S=0.0099 '/' Capacity=4.61 cfs Outflow=0.94 cfs 0.013 af
Reach R14: Pipe I14 to Pond	Avg. Flow Depth=0.87' Max Vel=13.44 fps Inflow=17.53 cfs 0.320 af 24.0" Round Pipe n=0.012 L=148.6' S=0.0338 '/' Capacity=45.04 cfs Outflow=17.54 cfs 0.320 af
Reach R15: Pipe I15 to I18	Avg. Flow Depth=1.21' Max Vel=8.50 fps Inflow=16.91 cfs 0.309 af 24.0" Round Pipe n=0.012 L=147.0' S=0.0103 '/' Capacity=24.84 cfs Outflow=16.89 cfs 0.309 af
Reach R16: Pipe I16 to I21	Avg. Flow Depth=0.63' Max Vel=5.45 fps Inflow=2.82 cfs 0.039 af 12.0" Round Pipe n=0.012 L=108.0' S=0.0104 '/' Capacity=3.93 cfs Outflow=2.83 cfs 0.039 af
Reach R17: Pipe I17 to Pond	Avg. Flow Depth=0.46' Max Vel=7.89 fps Inflow=1.46 cfs 0.020 af 6.0" Round Pipe n=0.012 L=20.0' S=0.0500 '/' Capacity=1.36 cfs Outflow=1.46 cfs 0.020 af
Reach R18: Pipe I18 to I14	Avg. Flow Depth=0.80' Max Vel=14.86 fps Inflow=17.55 cfs 0.320 af 24.0" Round Pipe n=0.012 L=147.0' S=0.0445 '/' Capacity=51.69 cfs Outflow=17.53 cfs 0.320 af
Reach R19: Pipe I19 to I14	Avg. Flow Depth=0.21' Max Vel=6.53 fps Inflow=0.76 cfs 0.011 af 12.0" Round Pipe n=0.012 L=46.0' S=0.0446 '/' Capacity=8.15 cfs Outflow=0.77 cfs 0.011 af
Reach R21: Pipe I21 to I15	Avg. Flow Depth=1.27' Max Vel=6.04 fps Inflow=12.87 cfs 0.196 af 24.0" Round Pipe n=0.012 L=223.0' S=0.0050 '/' Capacity=17.37 cfs Outflow=12.72 cfs 0.196 af
Reach R31: Pipe I31 to I21	Avg. Flow Depth=1.24' Max Vel=4.46 fps Inflow=7.11 cfs 0.103 af 18.0" Round Pipe n=0.012 L=154.3' S=0.0037 '/' Capacity=6.92 cfs Outflow=6.95 cfs 0.103 af
Reach R41: Pipe I41 to I31	Avg. Flow Depth=1.00' Max Vel=3.10 fps Inflow=2.88 cfs 0.040 af 12.0" Round Pipe n=0.010 L=324.3' S=0.0021 '/' Capacity=2.14 cfs Outflow=2.30 cfs 0.040 af
Reach R51: Pipe I51 to I31	Avg. Flow Depth=0.56' Max Vel=5.58 fps Inflow=2.98 cfs 0.044 af 15.0" Round Pipe n=0.012 L=123.9' S=0.0107 '/' Capacity=7.22 cfs Outflow=2.94 cfs 0.044 af
Reach R52: Pipe I52 to I51	Avg. Flow Depth=0.49' Max Vel=4.53 fps Inflow=1.73 cfs 0.026 af 12.0" Round Pipe n=0.012 L=114.4' S=0.0087 '/' Capacity=3.61 cfs Outflow=1.71 cfs 0.026 af
Reach R53: Pipe I53 to I52	Avg. Flow Depth=0.50' Max Vel=2.21 fps Inflow=0.50 cfs 0.007 af 6.0" Round Pipe n=0.010 L=62.2' S=0.0027 '/' Capacity=0.38 cfs Outflow=0.39 cfs 0.007 af
Reach R54: Pipe I54 to I63	Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0.000 af 6.0" Round Pipe n=0.010 L=63.0' S=0.0062 '/' Capacity=0.57 cfs Outflow=0.00 cfs 0.000 af

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Reach R61: Pipe I61 to I31	Avg. Flow Depth=0.63' Max Vel=4.41 fps Inflow=2.74 cfs 0.039 af
15.0" Round Pipe n=0.012 L=133.8' S=0.0060 '/' Capacity=5.41 cfs Outflow=2.73 cfs 0.039 af	
Reach R62: Pipe I62 to I61	Avg. Flow Depth=0.63' Max Vel=4.09 fps Inflow=2.19 cfs 0.031 af
12.0" Round Pipe n=0.012 L=122.3' S=0.0058 '/' Capacity=2.94 cfs Outflow=2.15 cfs 0.031 af	
Reach R63: Pipe I63 to I62	Avg. Flow Depth=0.38' Max Vel=3.00 fps Inflow=0.85 cfs 0.012 af
12.0" Round Pipe n=0.012 L=117.3' S=0.0048 '/' Capacity=2.67 cfs Outflow=0.83 cfs 0.012 af	
Reach R71: Pipe I71 to I15	Avg. Flow Depth=1.00' Max Vel=5.36 fps Inflow=7.48 cfs 0.107 af
12.0" Round Pipe n=0.012 L=307.3' S=0.0092 '/' Capacity=3.70 cfs Outflow=3.74 cfs 0.107 af	
Reach R81: Pipe I81 to I71	Avg. Flow Depth=0.60' Max Vel=6.21 fps Inflow=3.05 cfs 0.042 af
12.0" Round Pipe n=0.012 L=63.2' S=0.0139 '/' Capacity=4.55 cfs Outflow=3.05 cfs 0.042 af	
Reach R82: Pipe I82 to I81	Avg. Flow Depth=0.47' Max Vel=5.85 fps Inflow=2.11 cfs 0.029 af
12.0" Round Pipe n=0.012 L=136.0' S=0.0150 '/' Capacity=4.73 cfs Outflow=2.11 cfs 0.029 af	
Reach R91: Pipe I91 to I71	Avg. Flow Depth=0.55' Max Vel=4.16 fps Inflow=1.88 cfs 0.027 af
12.0" Round Pipe n=0.012 L=206.5' S=0.0066 '/' Capacity=3.14 cfs Outflow=1.84 cfs 0.027 af	
Reach R92: Pipe I92 to I91	Avg. Flow Depth=0.48' Max Vel=4.01 fps Inflow=1.54 cfs 0.022 af
12.0" Round Pipe n=0.012 L=134.2' S=0.0069 '/' Capacity=3.20 cfs Outflow=1.51 cfs 0.022 af	
Pond I14: Inlet 1-4	Peak Elev=743.27' Inflow=17.53 cfs 0.320 af Outflow=17.53 cfs 0.320 af
Pond I15: Inlet 1-5	Peak Elev=746.43' Inflow=16.91 cfs 0.309 af Outflow=16.91 cfs 0.309 af
Pond I16: Inlet 1-6	Peak Elev=750.49' Inflow=2.82 cfs 0.039 af Outflow=2.82 cfs 0.039 af
Pond I17: Trench Drain 1-7	Peak Elev=748.32' Inflow=1.46 cfs 0.020 af Outflow=1.46 cfs 0.020 af
Pond I18: Catch Basin 1-8	Peak Elev=744.76' Inflow=17.55 cfs 0.320 af Outflow=17.55 cfs 0.320 af
Pond I19: Inlet 1-9	Peak Elev=745.85' Inflow=0.76 cfs 0.011 af Outflow=0.76 cfs 0.011 af
Pond I21: Inlet 2-1	Peak Elev=748.60' Inflow=12.87 cfs 0.196 af Outflow=12.87 cfs 0.196 af
Pond I31: Manhole 3-1	Peak Elev=749.09' Inflow=7.11 cfs 0.103 af Outflow=7.11 cfs 0.103 af
Pond I41: Inlet 4-1	Peak Elev=750.44' Inflow=2.88 cfs 0.040 af Outflow=2.88 cfs 0.040 af

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Pond I51: Inlet 5-1	Peak Elev=749.82' Inflow=2.98 cfs 0.044 af Outflow=2.98 cfs 0.044 af
Pond I52: Inlet 5-2	Peak Elev=750.79' Inflow=1.73 cfs 0.026 af Outflow=1.73 cfs 0.026 af
Pond I53: Inlet 5-3	Peak Elev=751.00' Inflow=0.50 cfs 0.007 af Outflow=0.50 cfs 0.007 af
Pond I54: Inlet 5-4	Peak Elev=0.00' Primary=0.00 cfs 0.000 af
Pond I61: Manhole 6-1	Peak Elev=749.33' Inflow=2.74 cfs 0.039 af Outflow=2.74 cfs 0.039 af
Pond I62: Inlet 6-2	Peak Elev=750.08' Inflow=2.19 cfs 0.031 af Outflow=2.19 cfs 0.031 af
Pond I63: Inlet 6-3	Peak Elev=750.45' Inflow=0.85 cfs 0.012 af Outflow=0.85 cfs 0.012 af
Pond I71: Inlet 7-1	Peak Elev=749.48' Inflow=7.48 cfs 0.107 af Outflow=7.48 cfs 0.107 af
Pond I81: Inlet 8-1	Peak Elev=749.39' Inflow=3.05 cfs 0.042 af Outflow=3.05 cfs 0.042 af
Pond I82: Inlet 8-2	Peak Elev=751.59' Inflow=2.11 cfs 0.029 af Outflow=2.11 cfs 0.029 af
Pond I91: Inlet 9-1	Peak Elev=750.96' Inflow=1.88 cfs 0.027 af Outflow=1.88 cfs 0.027 af
Pond I92: Inlet 9-2	Peak Elev=751.95' Inflow=1.54 cfs 0.022 af Outflow=1.54 cfs 0.022 af
Pond P1: Detention Pond	Peak Elev=737.07' Storage=0.350 af Inflow=23.90 cfs 0.414 af Primary=2.03 cfs 0.414 af Secondary=0.00 cfs 0.000 af Outflow=2.03 cfs 0.414 af

Total Runoff Area = 12.789 ac Runoff Volume = 0.414 af Average Runoff Depth = 0.39"
77.82% Pervious = 9.953 ac 22.18% Impervious = 2.836 ac

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Summary for Subcatchment CA10: South Scale Area

[48] Hint: Peak<CiA due to short duration

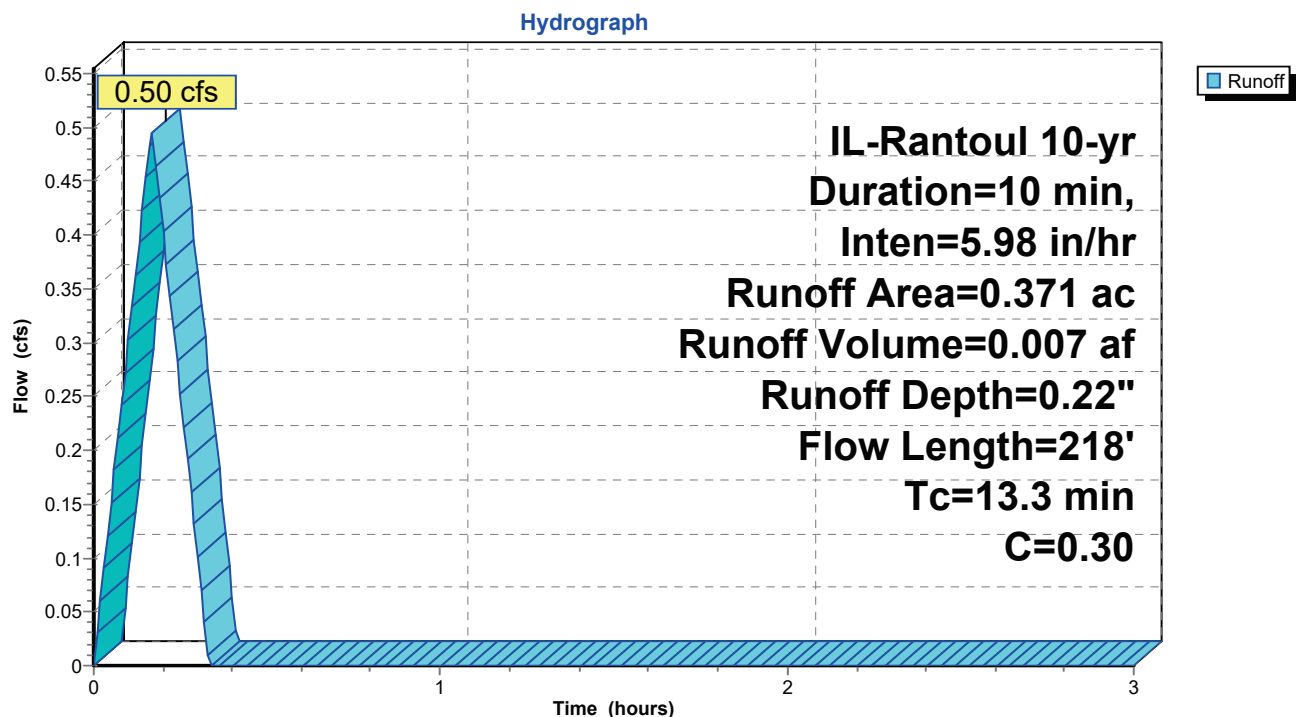
Runoff = 0.50 cfs @ 0.17 hrs, Volume= 0.007 af, Depth= 0.22"
 Routed to Pond I15 : Inlet 1-5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.007	0.40	Orthents, loamy, 1 to 7 percent slopes (802B), Well drained, HSG C
0.364	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.371	0.30	Weighted Average
0.371		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	100	0.0176	0.16		Sheet Flow, Grass area S of access road Grass: Short n= 0.150 P2= 3.03"
2.7	118	0.0105	0.72		Shallow Concentrated Flow, Grass area s of access road Short Grass Pasture Kv= 7.0 fps
13.3	218	Total			

Subcatchment CA10: South Scale Area



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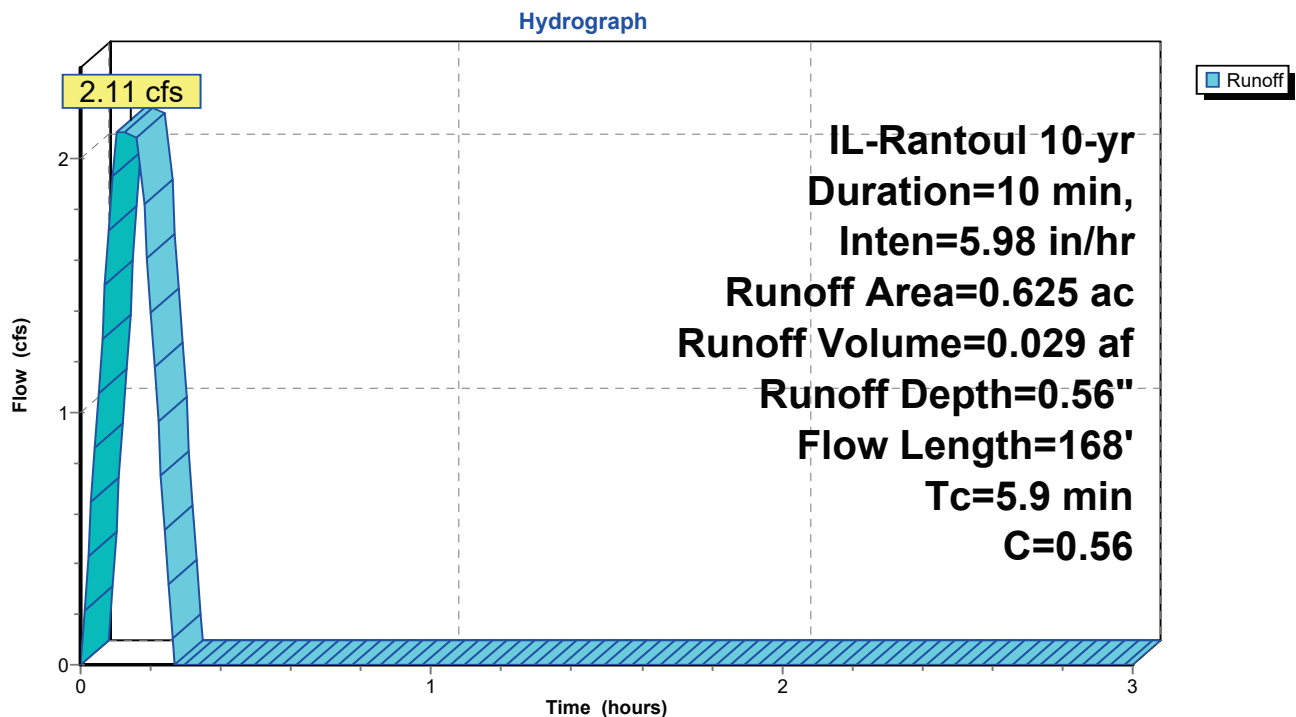
Summary for Subcatchment CA11: North Scale Area

Runoff = 2.11 cfs @ 0.10 hrs, Volume= 0.029 af, Depth= 0.56"
 Routed to Pond I82 : Inlet 8-2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.032	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.258	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.111	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.162	0.95	Asphalt
0.061	0.95	Sidewalk
0.001	0.60	Gravel
0.625	0.56	Weighted Average
0.402		64.32% Pervious Area
0.223		35.68% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.4	42	0.0274	0.16		Sheet Flow, Grass area SW of building Grass: Short n= 0.150 P2= 3.03"
1.5	126	0.0047	1.39		Shallow Concentrated Flow, Access road N of scale Paved Kv= 20.3 fps
5.9	168	Total			

Subcatchment CA11: North Scale Area

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Summary for Subcatchment CA12: Building Entrance Area

[48] Hint: Peak<CiA due to short duration

Runoff = 2.71 cfs @ 0.17 hrs, Volume= 0.038 af, Depth= 0.63"
 Routed to Pond I71 : Inlet 7-1

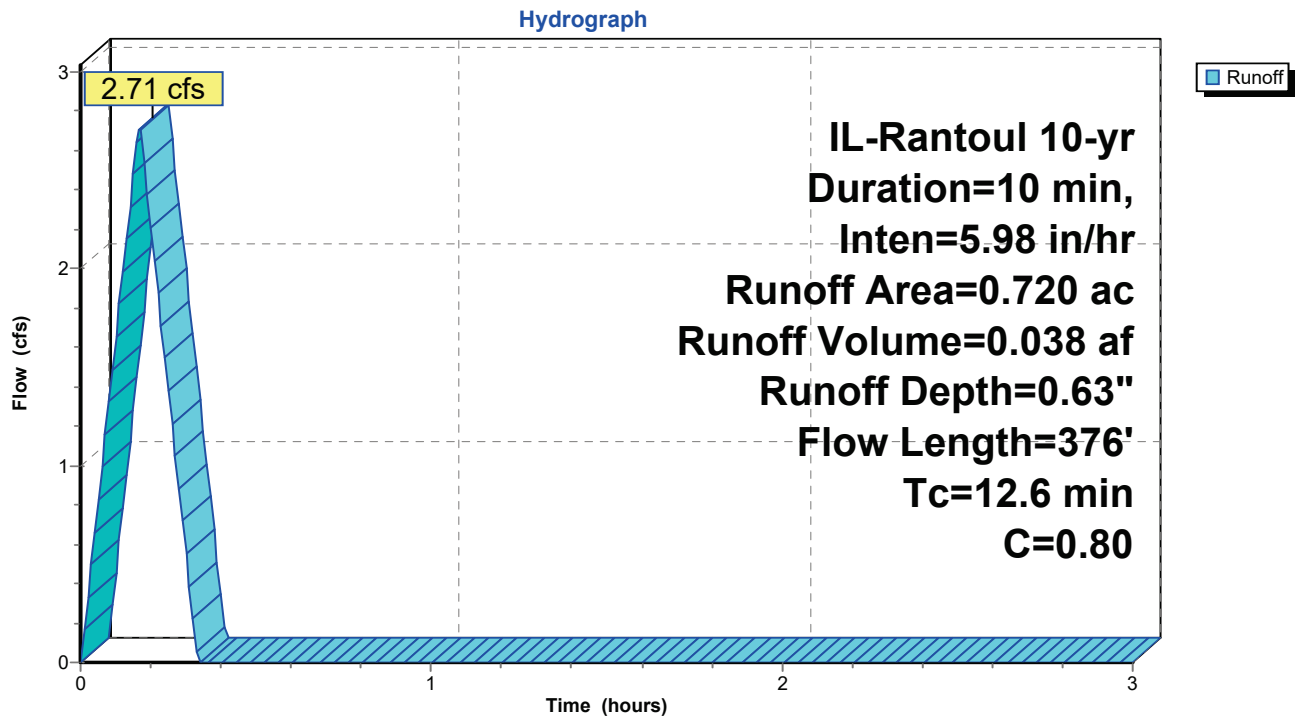
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.132	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.001	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.046	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.413	0.95	Asphalt
0.095	0.95	Sidewalk
0.033	0.60	Gravel
0.720	0.80	Weighted Average
0.212		29.44% Pervious Area
0.508		70.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	116	0.0224	0.18		Sheet Flow, Gass SE of building Grass: Short n= 0.150 P2= 3.03"
1.8	260	0.0137	2.38		Shallow Concentrated Flow, Access Road Paved Kv= 20.3 fps
12.6	376	Total			

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Subcatchment CA12: Building Entrance Area



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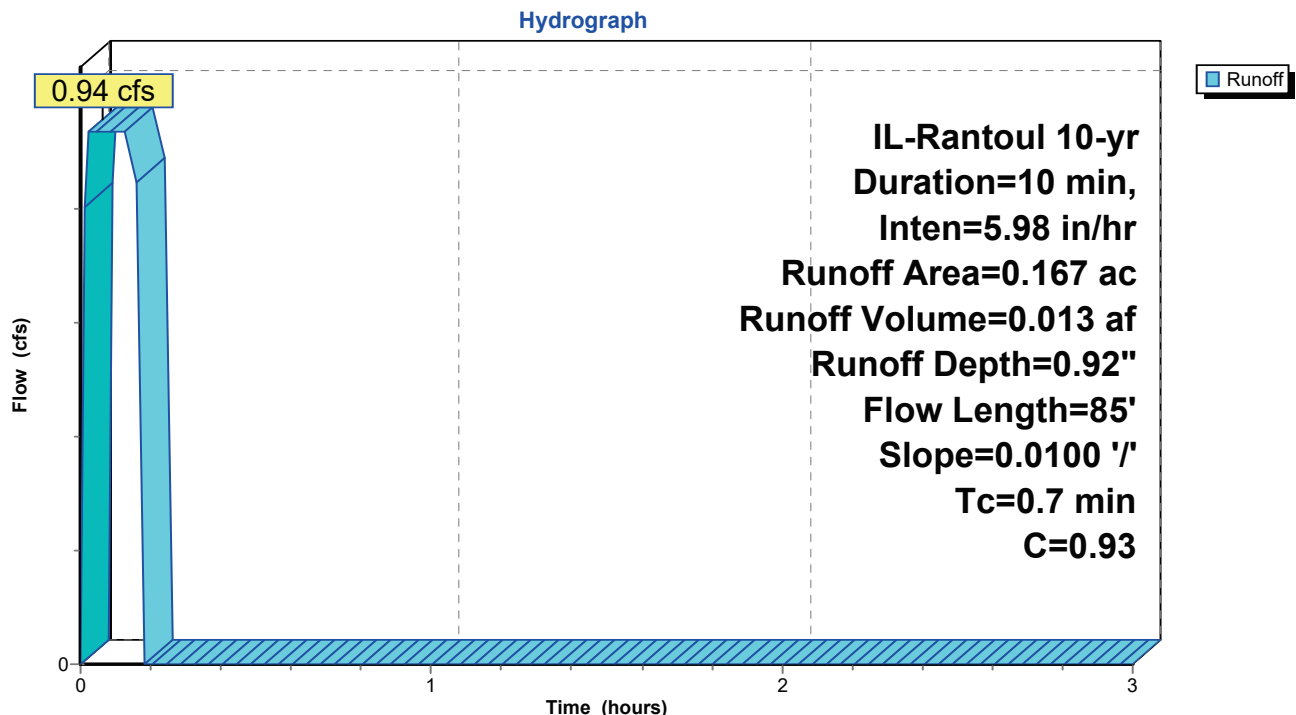
Summary for Subcatchment CA13: South Building Area[70] Warning: $T_c < 8dt$ requires smaller dt

Runoff = 0.94 cfs @ 0.02 hrs, Volume= 0.013 af, Depth= 0.92"
 Routed to Reach R13 : Pipe CA13 to I81

Runoff by Rational method, Rise/Fall=1.0/1.0 x T_c , Time Span= 0.00-3.00 hrs, $dt=0.01$ hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.162	0.95	Building
0.001	0.95	Sidewalk
0.004	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.167	0.93	Weighted Average
0.004		2.40% Pervious Area
0.163		97.60% Impervious Area

T_c (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	85	0.0100	2.03		Shallow Concentrated Flow, Parking N of building Paved Kv= 20.3 fps

Subcatchment CA13: South Building Area

340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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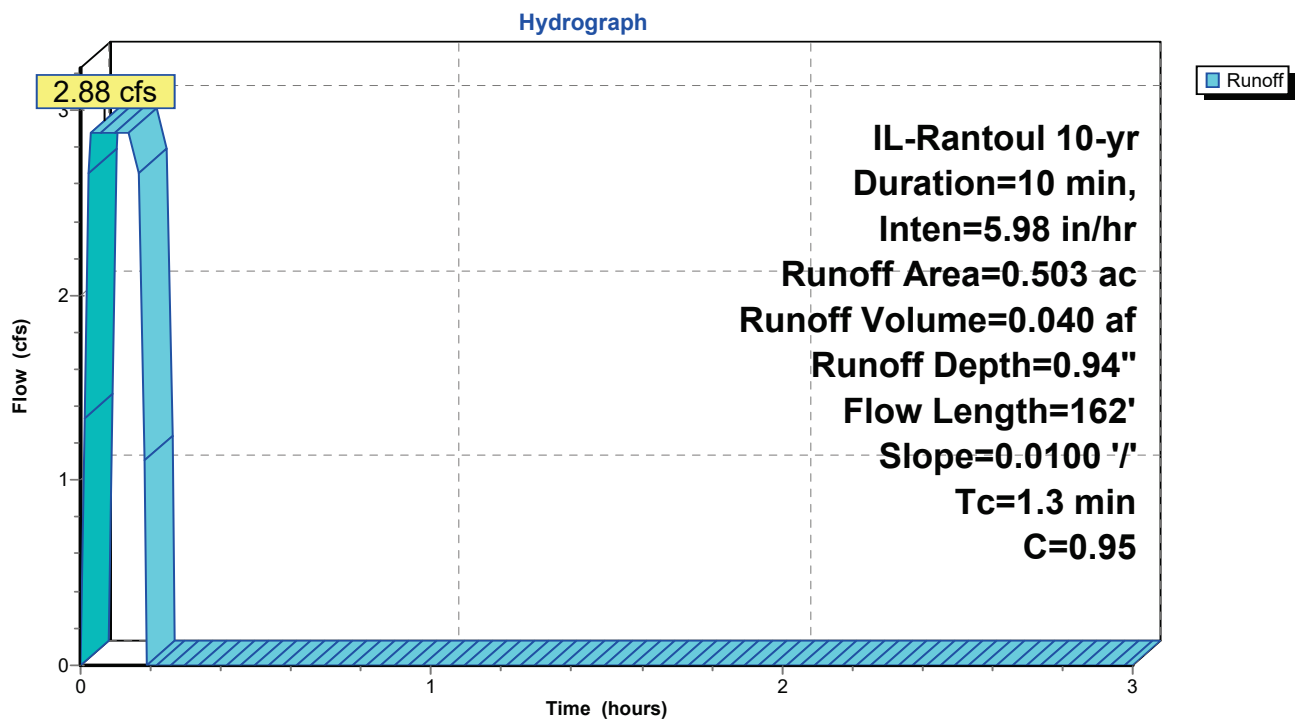
Summary for Subcatchment CA14: North Building Area[70] Warning: $T_c < 8dt$ requires smaller dt

Runoff = 2.88 cfs @ 0.03 hrs, Volume= 0.040 af, Depth= 0.94"
 Routed to Pond I41 : Inlet 4-1

Runoff by Rational method, Rise/Fall=1.0/1.0 x T_c , Time Span= 0.00-3.00 hrs, $dt=0.01$ hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.503	0.95	Unconnected roofs, HSG A
0.503		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	162	0.0100	2.03		Shallow Concentrated Flow, N building
					Paved Kv= 20.3 fps

Subcatchment CA14: North Building Area

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Summary for Subcatchment CA15: West Building Area

[48] Hint: Peak<CiA due to short duration

Runoff = 1.01 cfs @ 0.17 hrs, Volume= 0.014 af, Depth= 0.26"
 Routed to Pond I21 : Inlet 2-1

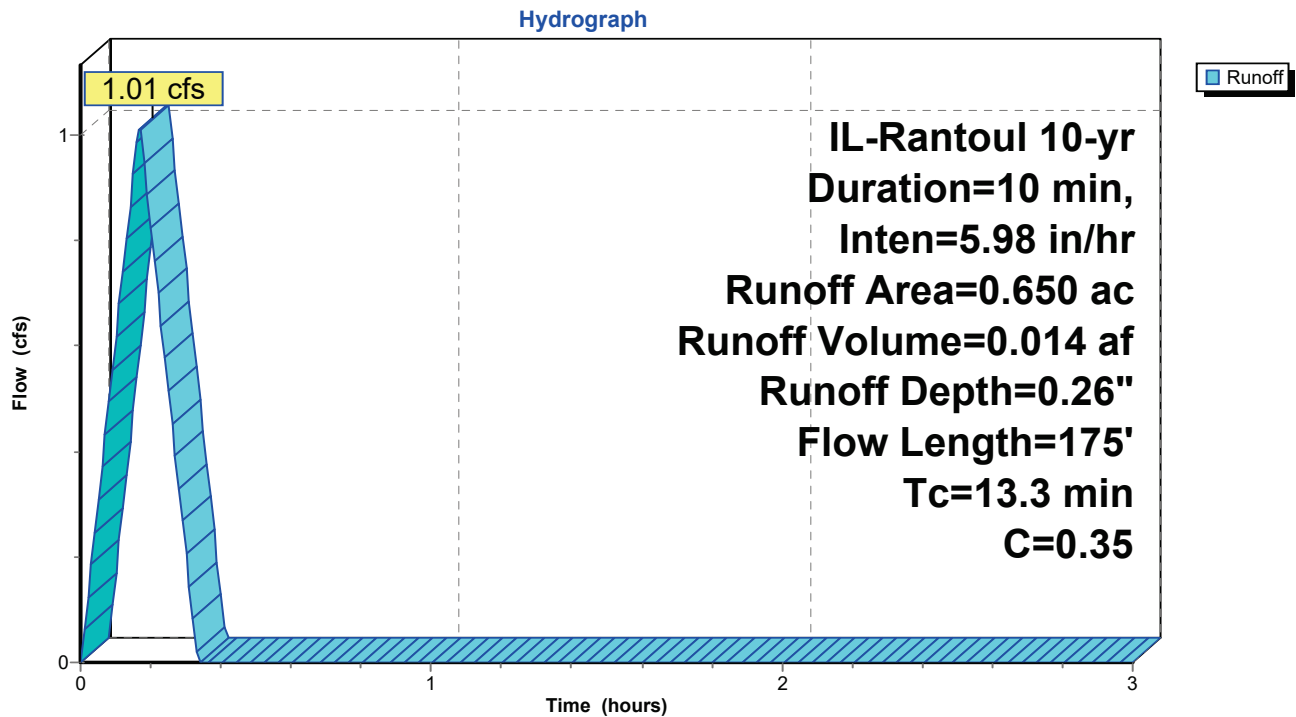
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.394	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.199	0.30	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D
0.036	0.95	Asphalt
0.011	0.95	Sidewalk
0.010	0.60	Gravel
0.650	0.35	Weighted Average
0.603		92.77% Pervious Area
0.047		7.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.1	79	0.0123	0.13		Sheet Flow, Parking N of building Grass: Short n= 0.150 P2= 3.03"
1.0	5	0.0172	0.09		Sheet Flow, Parking N of building Grass: Short n= 0.150 P2= 3.03"
0.3	16	0.0193	0.91		Sheet Flow, Parking access road Smooth surfaces n= 0.011 P2= 3.03"
1.9	75	0.0084	0.64		Shallow Concentrated Flow, Parking N of building Short Grass Pasture Kv= 7.0 fps
13.3	175	Total			

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Subcatchment CA15: West Building Area



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Summary for Subcatchment CA16: East Access Road Area

[48] Hint: Peak<CiA due to short duration

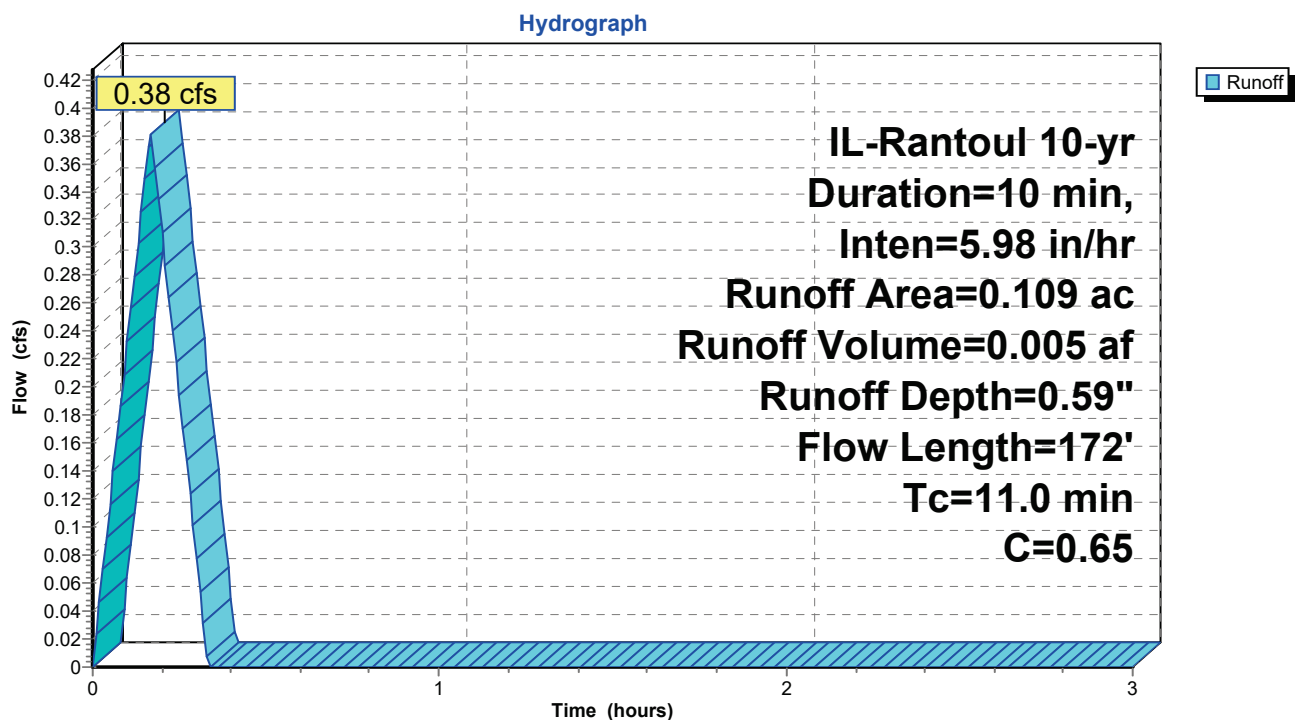
Runoff = 0.38 cfs @ 0.17 hrs, Volume= 0.005 af, Depth= 0.59"
 Routed to Pond I91 : Inlet 9-1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.061	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.047	0.95	Ashpalt
0.001	0.60	Gravel
0.109	0.65	Weighted Average
0.062		56.88% Pervious Area
0.047		43.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	113	0.0218	0.18		Sheet Flow, Grass E of building Grass: Short n= 0.150 P2= 3.03"
0.3	59	0.0327	3.67		Shallow Concentrated Flow, Access Road Paved Kv= 20.3 fps
11.0	172	Total			

Subcatchment CA16: East Access Road Area



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Summary for Subcatchment CA17: East Building Area

[48] Hint: Peak<CiA due to short duration

Runoff = 1.54 cfs @ 0.17 hrs, Volume= 0.022 af, Depth= 0.49"
 Routed to Pond I92 : Inlet 9-2

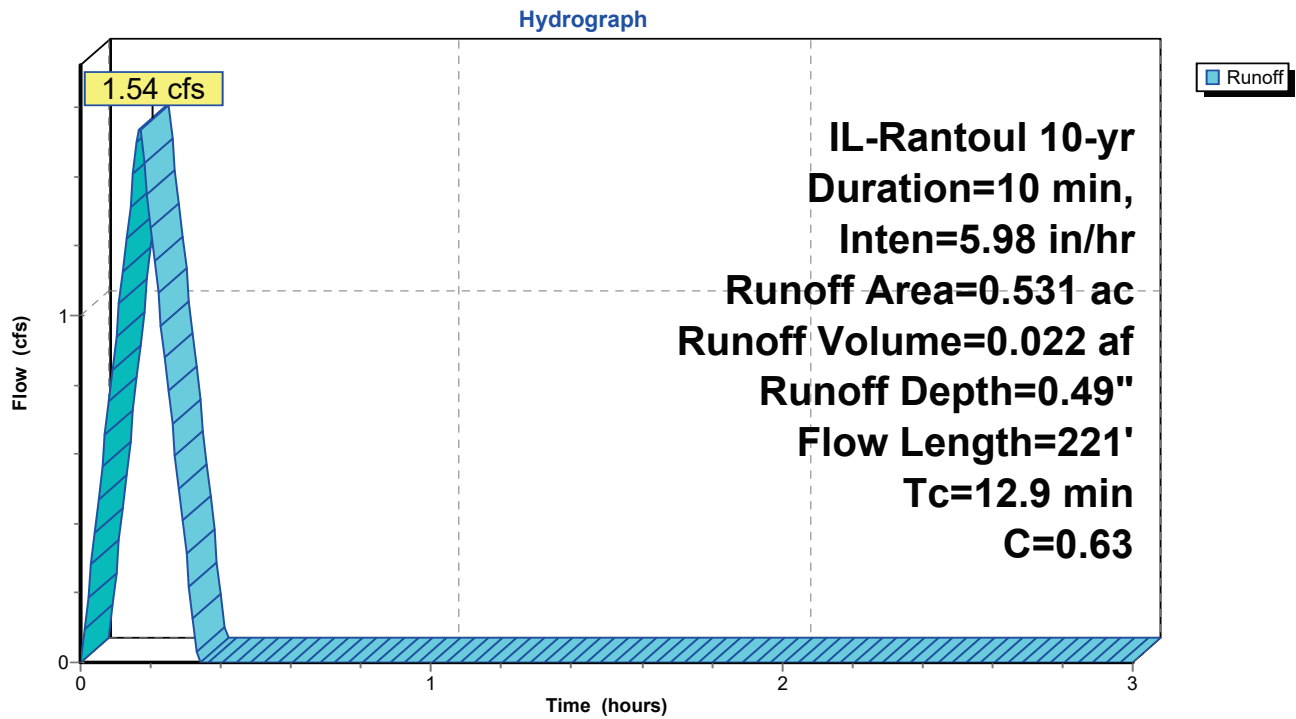
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.115	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.032	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.008	0.95	Sidewalk
0.269	0.60	Gravel
0.107	0.95	Asphalt
0.531	0.63	Weighted Average
0.416		78.34% Pervious Area
0.115		21.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.0	100	0.0129	0.14		Sheet Flow, Grass E of building Grass: Short n= 0.150 P2= 3.03"
0.4	26	0.0231	1.06		Shallow Concentrated Flow, Access Road Short Grass Pasture Kv= 7.0 fps
0.5	95	0.0344	2.99		Shallow Concentrated Flow, Access Road Unpaved Kv= 16.1 fps
12.9	221	Total			

340656 - Rantoul Transfer Station - Propd IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr
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Subcatchment CA17: East Building Area



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Summary for Subcatchment CA18: SE 1 Parking Area

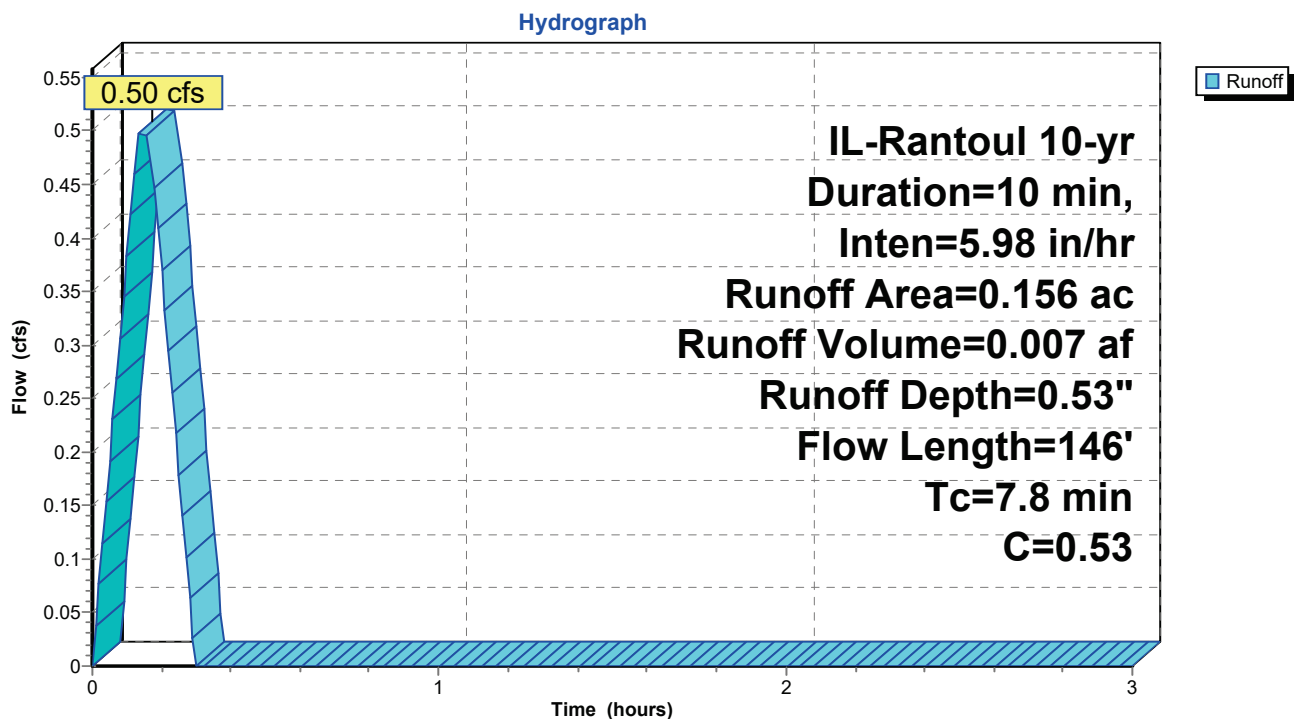
Runoff = 0.50 cfs @ 0.13 hrs, Volume= 0.007 af, Depth= 0.53"
 Routed to Pond I53 : Inlet 5-3

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.060	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.096	0.60	Gravel
0.156	0.53	Weighted Average
0.156		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	87	0.0350	0.20		Sheet Flow, Area E outside of property Grass: Short n= 0.150 P2= 3.03"
0.6	59	0.0114	1.72		Shallow Concentrated Flow, Area E outside of property Unpaved Kv= 16.1 fps
7.8	146	Total			

Subcatchment CA18: SE 1 Parking Area



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Subcatchment CA19: SE 2 Parking Area

[48] Hint: Peak<CiA due to short duration

Runoff = 1.35 cfs @ 0.17 hrs, Volume= 0.019 af, Depth= 0.11"
 Routed to Pond I52 : Inlet 5-2

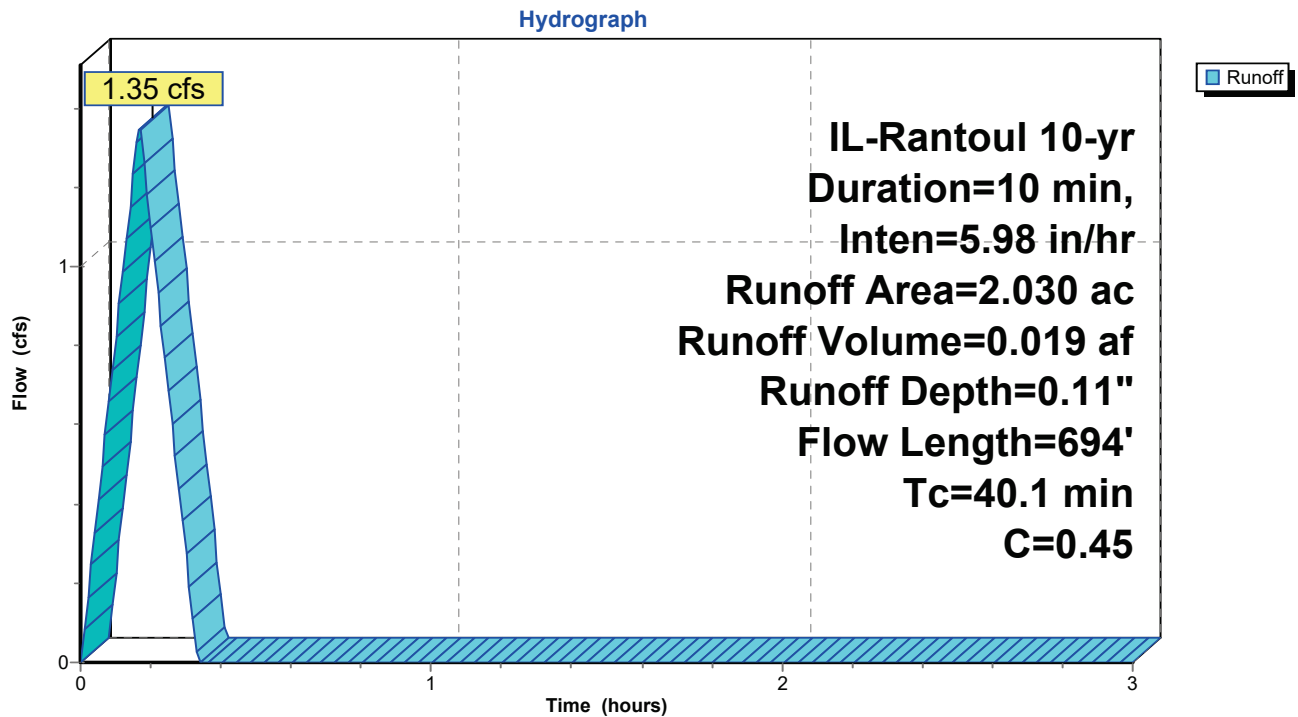
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.951	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.609	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.101	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.363	0.60	Gravel
0.006	0.95	Sidewalk
2.030	0.45	Weighted Average
2.024		99.70% Pervious Area
0.006		0.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.3	100	0.0020	0.07		Sheet Flow, Area E outside of property Grass: Short n= 0.150 P2= 3.03"
14.4	526	0.0076	0.61		Shallow Concentrated Flow, Area E outside of property Short Grass Pasture Kv= 7.0 fps
0.4	68	0.0248	2.54		Shallow Concentrated Flow, Parking N of building Unpaved Kv= 16.1 fps
40.1	694	Total			

340656 - Rantoul Transfer Station - Propd IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr
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Subcatchment CA19: SE 2 Parking Area



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Summary for Subcatchment CA20: NE Parking Area

[48] Hint: Peak<CiA due to short duration

Runoff = 0.85 cfs @ 0.17 hrs, Volume= 0.012 af, Depth= 0.11"
 Routed to Pond I63 : Inlet 6-3

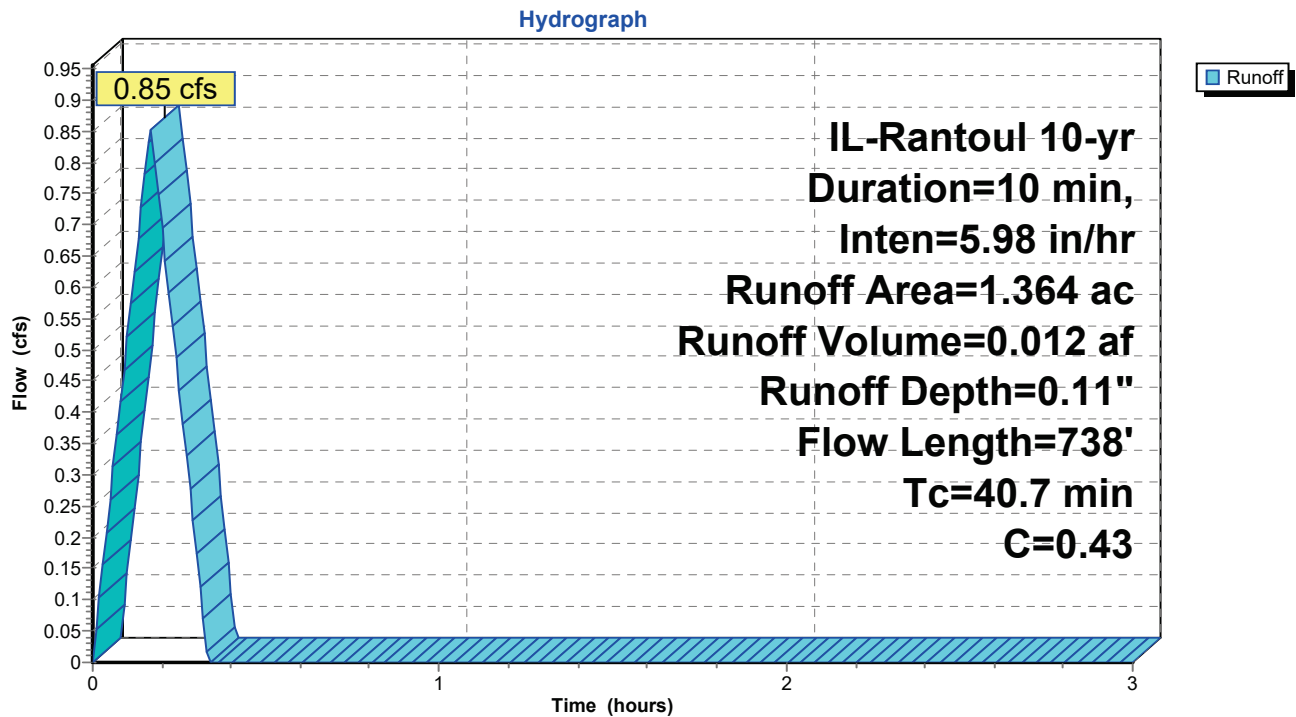
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.338	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.319	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.362	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.345	0.60	Gravel
1.364	0.43	Weighted Average
1.364		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.3	100	0.0020	0.07		Sheet Flow, Area E outside of property Grass: Short n= 0.150 P2= 3.03"
14.8	568	0.0083	0.64		Shallow Concentrated Flow, Area E outside of property Short Grass Pasture Kv= 7.0 fps
0.6	70	0.0132	1.85		Shallow Concentrated Flow, Parking N of building Unpaved Kv= 16.1 fps
40.7	738	Total			

340656 - Rantoul Transfer Station - Propd IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr
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Subcatchment CA20: NE Parking Area



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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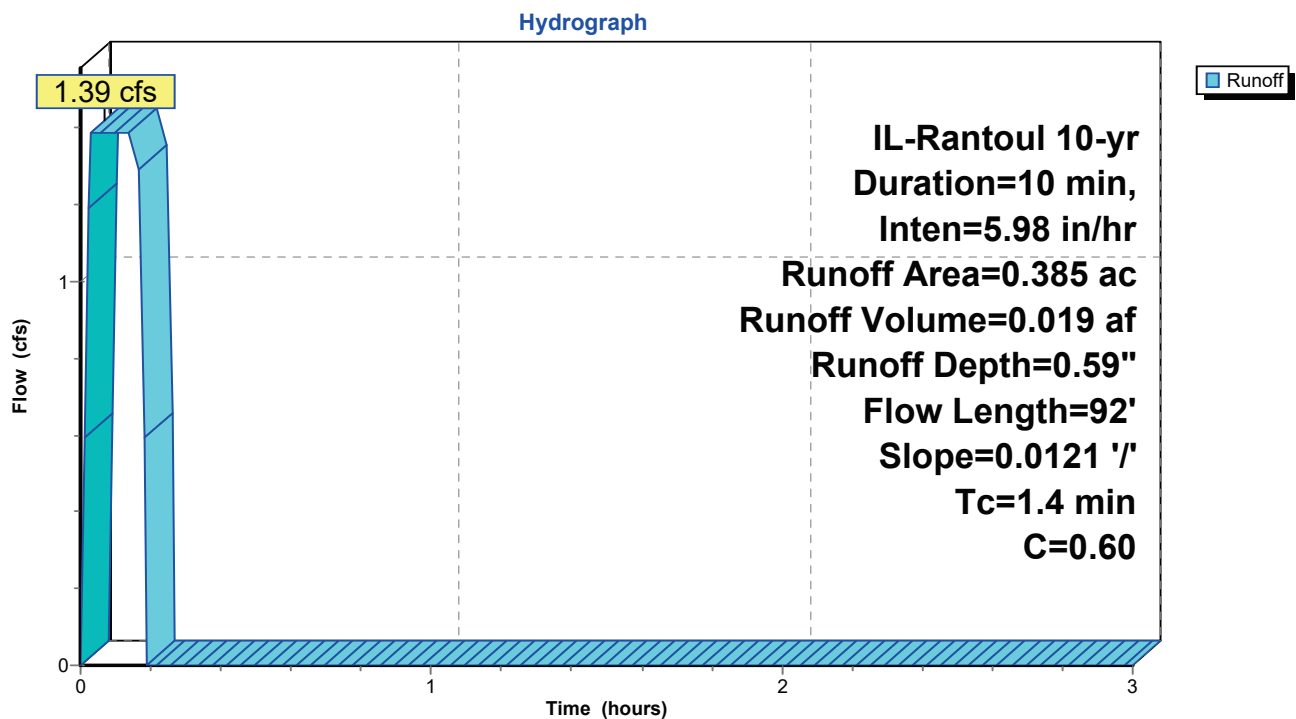
Summary for Subcatchment CA21: N Central Parking Area[70] Warning: $T_c < 8dt$ requires smaller dt

Runoff = 1.39 cfs @ 0.03 hrs, Volume= 0.019 af, Depth= 0.59"
 Routed to Pond I62 : Inlet 6-2

Runoff by Rational method, Rise/Fall=1.0/1.0 x T_c , Time Span= 0.00-3.00 hrs, $dt=0.01$ hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.385	0.60	Gravel
0.385		100.00% Pervious Area

T_c (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	92	0.0121	1.08		Sheet Flow, Parking Area Smooth surfaces $n=0.011$ $P2=3.03"$

Subcatchment CA21: N Central Parking Area

340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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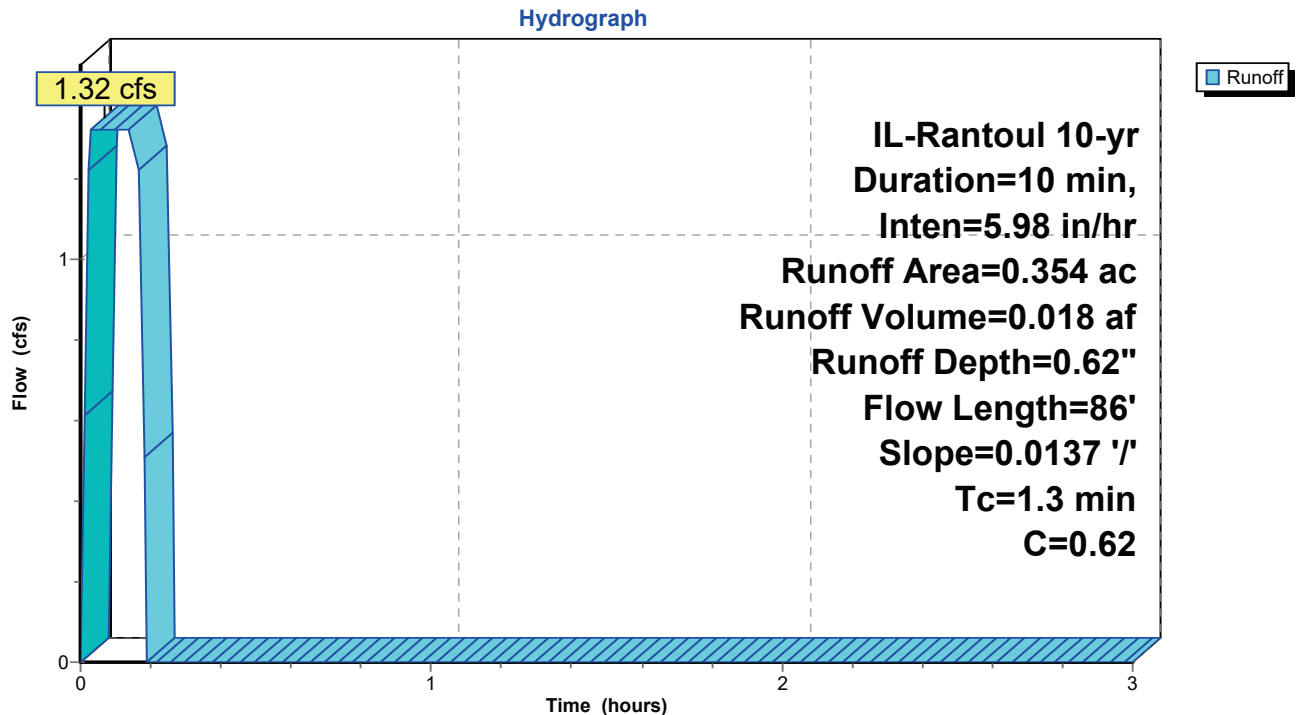
Summary for Subcatchment CA22: S Central Parking Area[70] Warning: $T_c < 8dt$ requires smaller dt

Runoff = 1.32 cfs @ 0.03 hrs, Volume= 0.018 af, Depth= 0.62"
 Routed to Pond I51 : Inlet 5-1

Runoff by Rational method, Rise/Fall=1.0/1.0 x T_c , Time Span= 0.00-3.00 hrs, dt = 0.01 hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.003	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.331	0.60	Gravel
0.020	0.95	Sidewalk
0.354	0.62	Weighted Average
0.334		94.35% Pervious Area
0.020		5.65% Impervious Area

T_c (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	86	0.0137	1.12		Sheet Flow, Parking Area Smooth surfaces n = 0.011 P_2 = 3.03"

Subcatchment CA22: S Central Parking Area

340656 - Rantoul Transfer Station - Propd IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr
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Summary for Subcatchment CA23: NW Parking Area

[48] Hint: Peak<CiA due to short duration

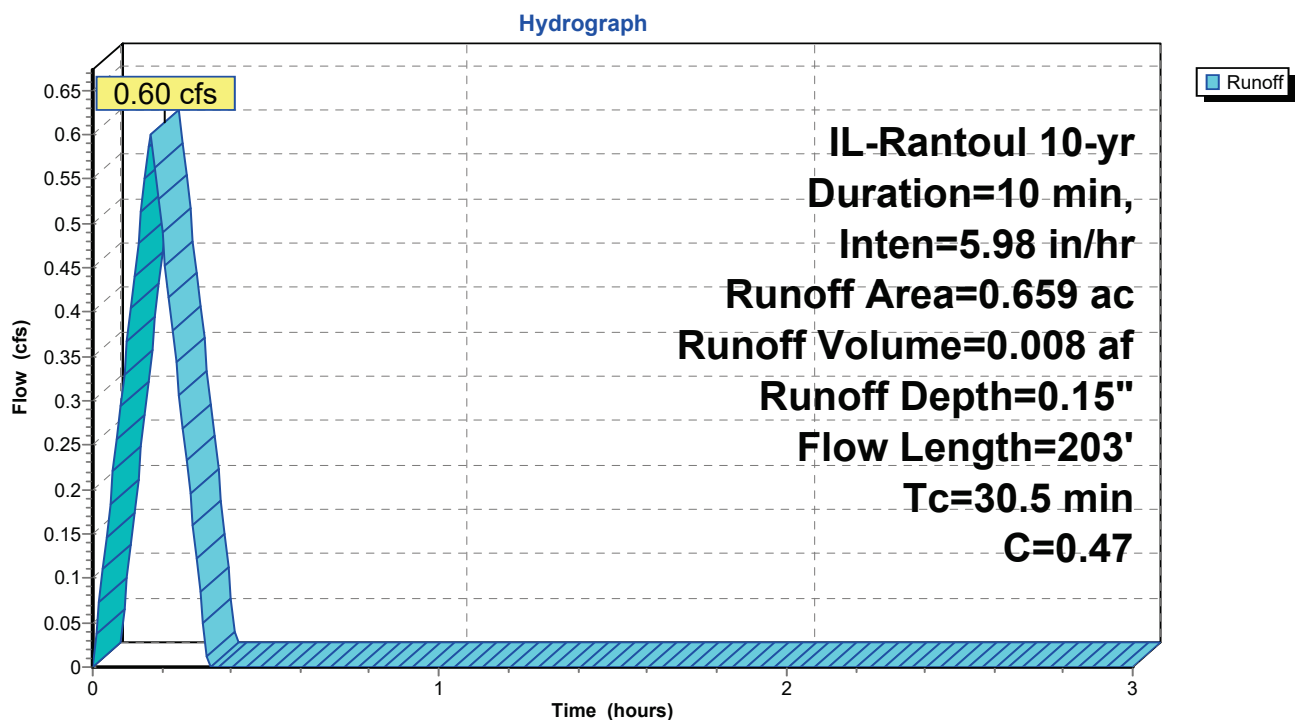
Runoff = 0.60 cfs @ 0.17 hrs, Volume= 0.008 af, Depth= 0.15"
 Routed to Pond I61 : Manhole 6-1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.296	0.30	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D
0.363	0.60	Gravel
0.659	0.47	Weighted Average
0.659		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	100	0.0014	0.06		Sheet Flow, Grass area N of building Grass: Short n= 0.150 P2= 3.03"
0.6	40	0.0238	1.08		Shallow Concentrated Flow, Grass area N of building Short Grass Pasture Kv= 7.0 fps
0.7	63	0.0096	1.58		Shallow Concentrated Flow, Parking N of building Unpaved Kv= 16.1 fps
30.5	203	Total			

Subcatchment CA23: NW Parking Area



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Subcatchment CA24: SW Parking Area

[48] Hint: Peak<CiA due to short duration

Runoff = 1.42 cfs @ 0.17 hrs, Volume= 0.020 af, Depth= 0.47"
 Routed to Pond I31 : Manhole 3-1

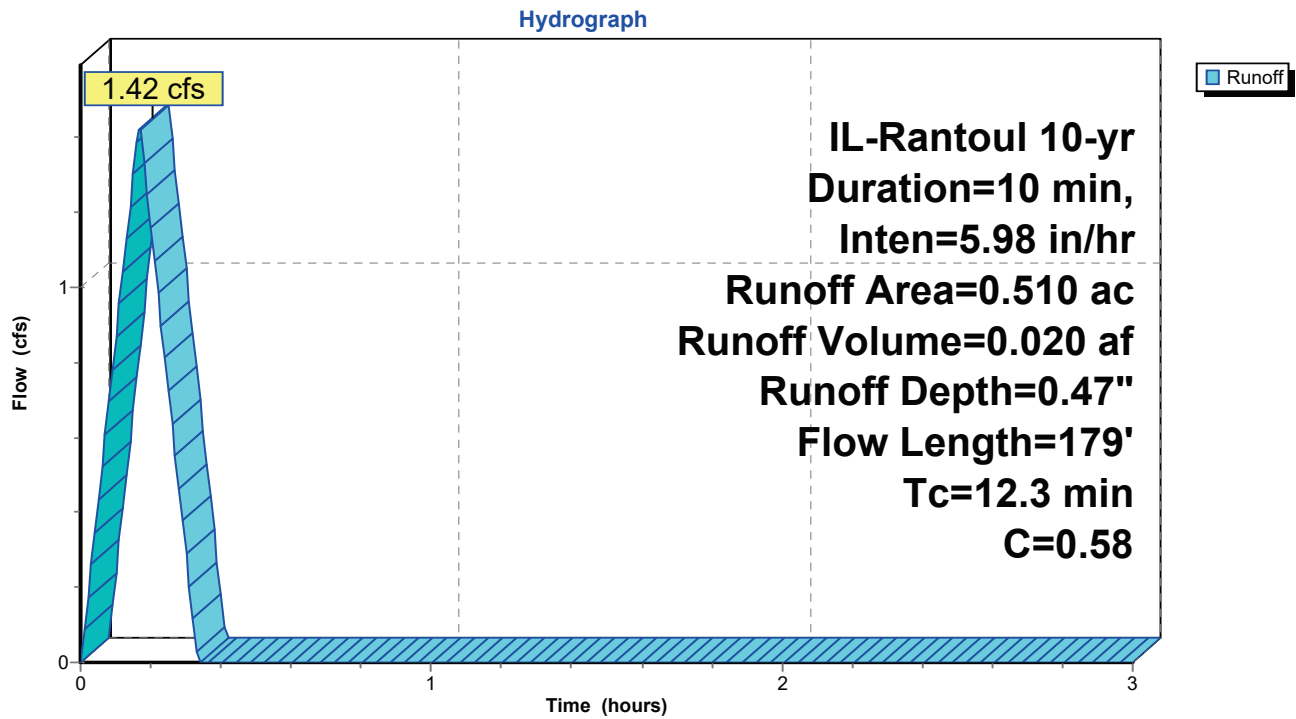
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.001	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.065	0.30	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D
0.015	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.394	0.60	Gravel
0.026	0.95	Sidewalk
0.009	0.95	Asphalt
0.510	0.58	Weighted Average
0.475		93.14% Pervious Area
0.035		6.86% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.4	78	0.0090	0.11		Sheet Flow, Grass area N of building Grass: Short n= 0.150 P2= 3.03"
0.9	101	0.0133	1.86		Shallow Concentrated Flow, Parking N of building Unpaved Kv= 16.1 fps
12.3	179	Total			

340656 - Rantoul Transfer Station - Propd IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr
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Subcatchment CA24: SW Parking Area



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Summary for Subcatchment CA6: Pond Catchment Area

[70] Warning: Tc<8dt requires smaller dt

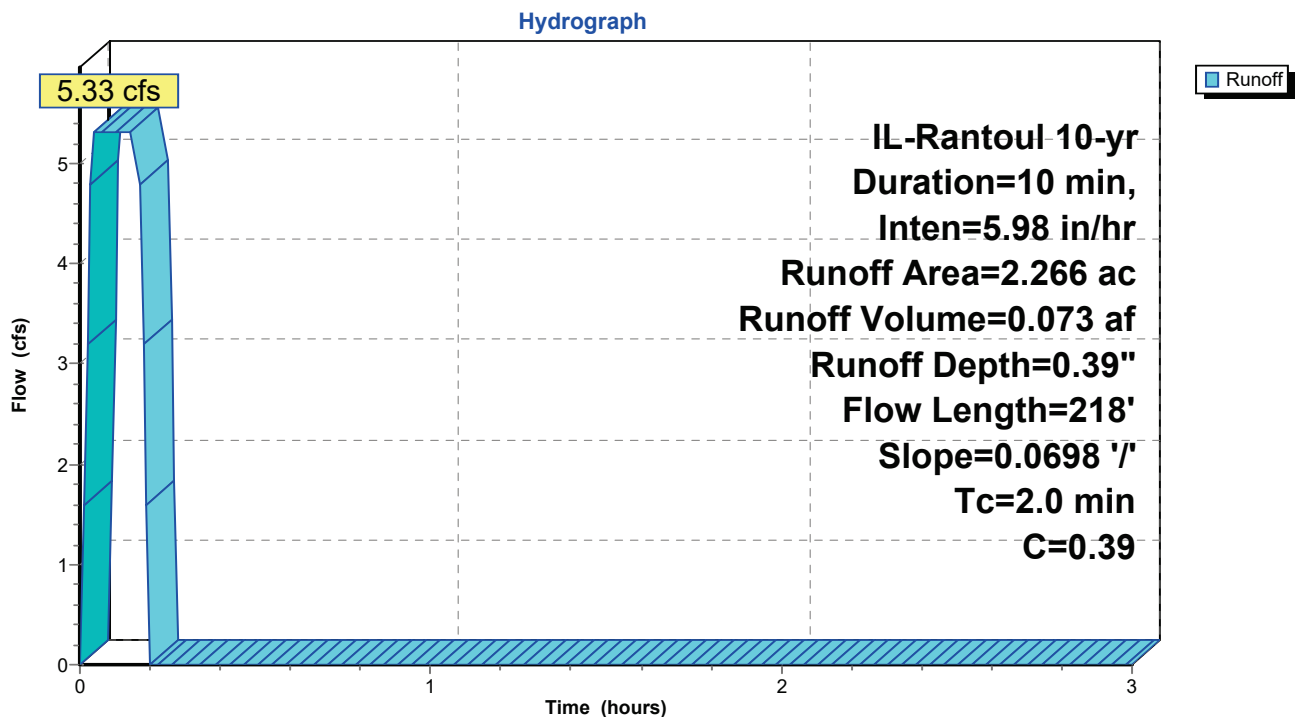
Runoff = 5.33 cfs @ 0.04 hrs, Volume= 0.073 af, Depth= 0.39"
 Routed to Pond P1 : Detention Pond

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.523	0.30	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D
1.385	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.063	0.40	Orthents, loamy, 1 to 7 percent slopes (802B), Well drained, HSG C
0.005	0.95	Concrete
0.290	0.95	Building
2.266	0.39	Weighted Average
1.971		86.98% Pervious Area
0.295		13.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	218	0.0698	1.85		Shallow Concentrated Flow, Grass area W of parking area Short Grass Pasture Kv= 7.0 fps

Subcatchment CA6: Pond Catchment Area



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Subcatchment CA7: NE Station Area

[48] Hint: Peak<CiA due to short duration

Runoff = 1.46 cfs @ 0.17 hrs, Volume= 0.020 af, Depth= 0.33"
 Routed to Pond I17 : Trench Drain 1-7

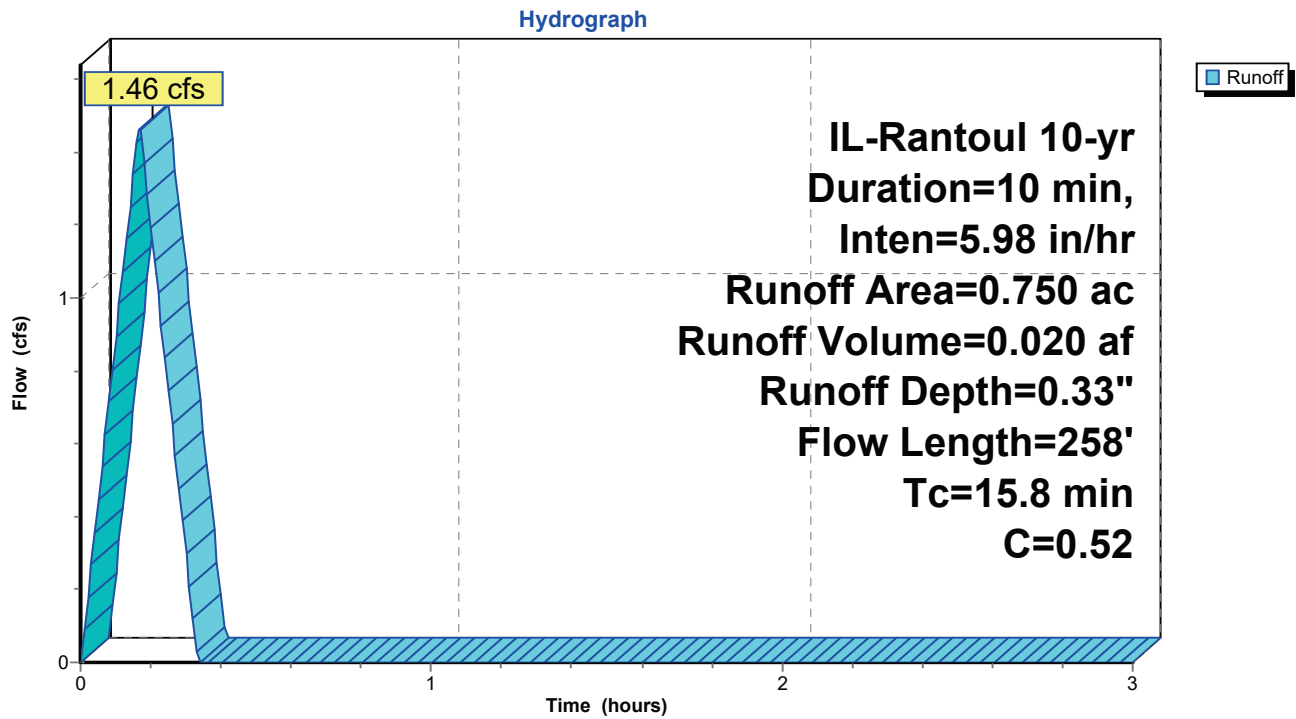
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.479	0.30	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D
0.022	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.249	0.95	Asphalt
0.750	0.52	Weighted Average
0.501		66.80% Pervious Area
0.249		33.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.2	100	0.0084	0.12		Sheet Flow, Parking N of building Grass: Short n= 0.150 P2= 3.03"
0.6	50	0.0042	1.32		Shallow Concentrated Flow, Parking N of building Paved Kv= 20.3 fps
0.0	13	0.0927	6.18		Shallow Concentrated Flow, Parking N of building Paved Kv= 20.3 fps
1.0	95	0.0560	1.66		Shallow Concentrated Flow, Parking N of building Short Grass Pasture Kv= 7.0 fps
15.8	258	Total			

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Subcatchment CA7: NE Station Area



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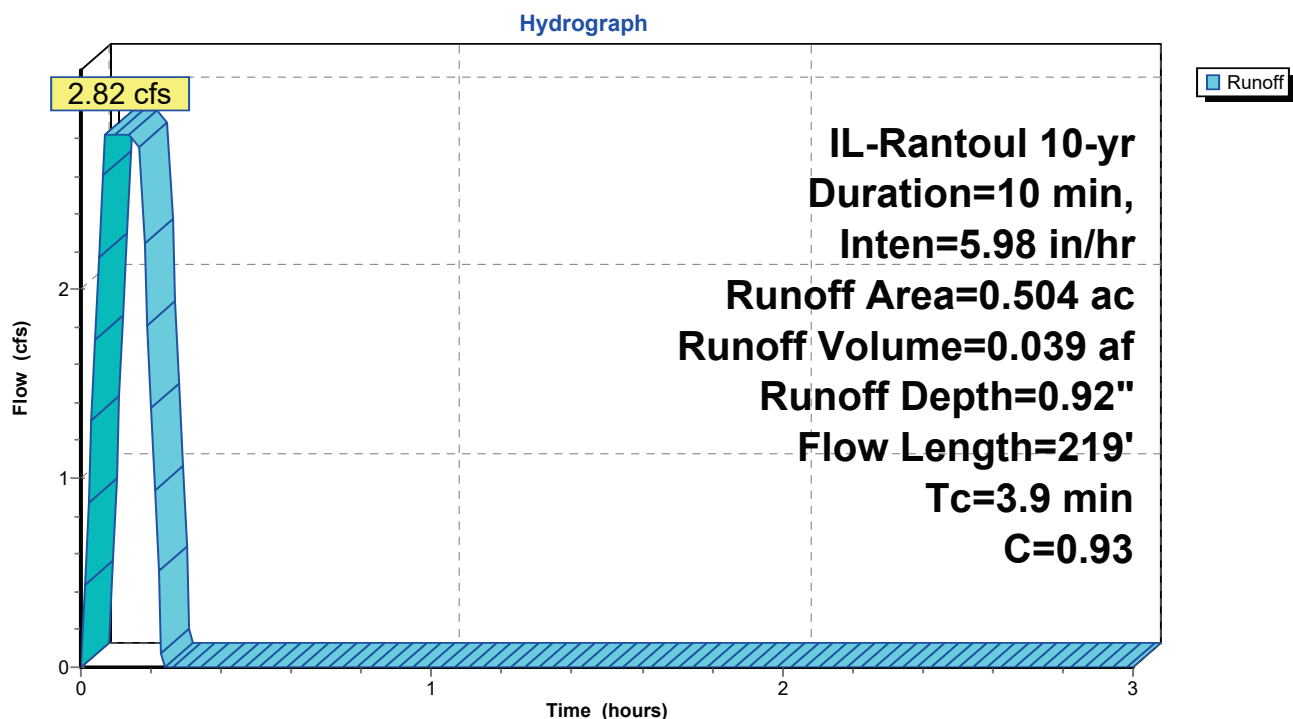
Summary for Subcatchment CA8: East Station Area[70] Warning: $T_c < 8dt$ requires smaller dt

Runoff = 2.82 cfs @ 0.07 hrs, Volume= 0.039 af, Depth= 0.92"
 Routed to Pond I16 : Inlet 1-6

Runoff by Rational method, Rise/Fall=1.0/1.0 x T_c , Time Span= 0.00-3.00 hrs, dt = 0.01 hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.012	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.492	0.95	Asphalt
0.504	0.93	Weighted Average
0.012		2.38% Pervious Area
0.492		97.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0087	0.96		Sheet Flow, Grass area W of parking area Smooth surfaces n= 0.011 P2= 3.03"
2.2	119	0.0019	0.88		Shallow Concentrated Flow, Grass area W of parking area Paved Kv= 20.3 fps
3.9	219	Total			

Subcatchment CA8: East Station Area

340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Subcatchment CA9: SE Station Area

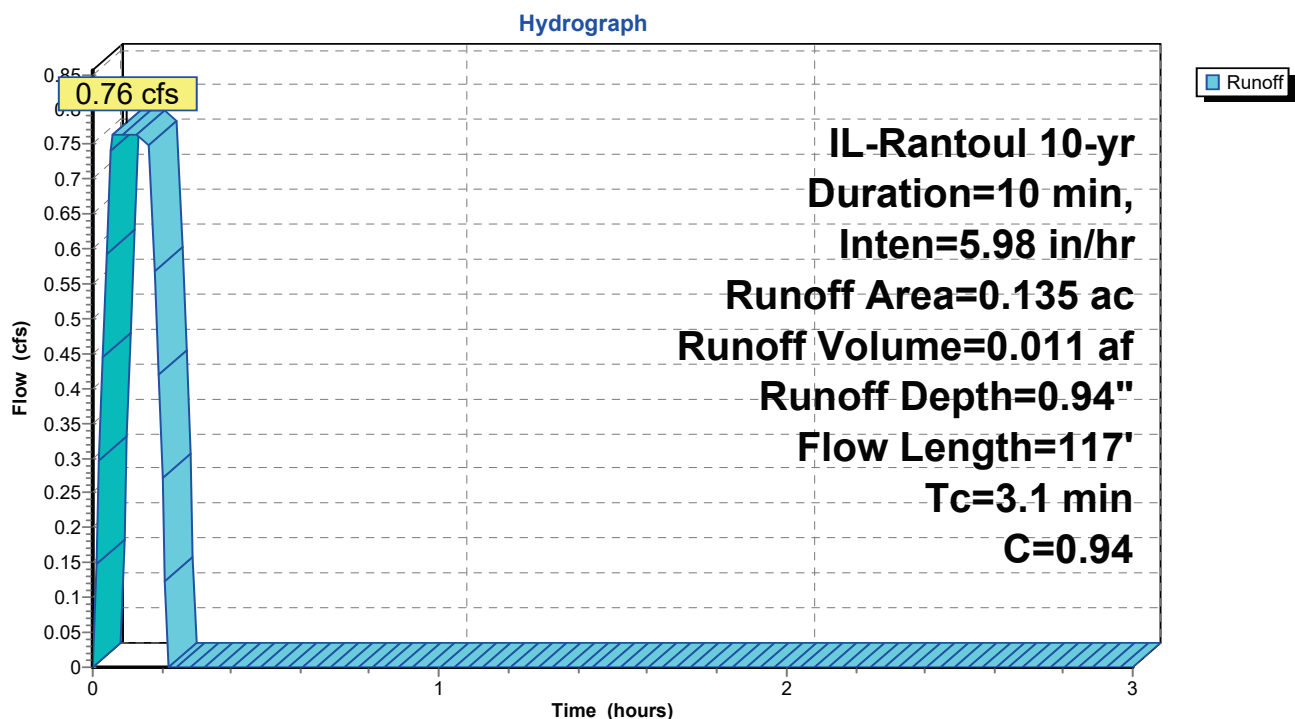
[70] Warning: Tc<8dt requires smaller dt

Runoff = 0.76 cfs @ 0.06 hrs, Volume= 0.011 af, Depth= 0.94"
 Routed to Pond I19 : Inlet 1-9

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

Area (ac)	C	Description
0.002	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.133	0.95	Asphalt
0.135	0.94	Weighted Average
0.002		1.48% Pervious Area
0.133		98.52% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	100	0.0023	0.56		Sheet Flow, Access Road Smooth surfaces n= 0.011 P2= 3.03"
0.1	17	0.0253	3.23		Shallow Concentrated Flow, Access Road Paved Kv= 20.3 fps
3.1	117	Total			

Subcatchment CA9: SE Station Area

340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Reach R13: Pipe CA13 to I81

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 0.167 ac, 97.60% Impervious, Inflow Depth = 0.92" for 10-yr event
 Inflow = 0.94 cfs @ 0.02 hrs, Volume= 0.013 af
 Outflow = 0.94 cfs @ 0.16 hrs, Volume= 0.013 af, Atten= 0%, Lag= 8.4 min
 Routed to Pond I81 : Inlet 8-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.60 fps, Min. Travel Time= 0.5 min

Avg. Velocity= 2.01 fps, Avg. Travel Time= 1.2 min

Peak Storage= 30 cf @ 0.16 hrs

Average Depth at Peak Storage= 0.31' , Surface Width= 0.92'

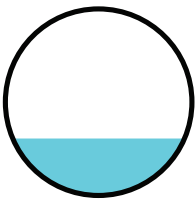
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 4.61 cfs

12.0" Round Pipe

n= 0.010 PVC, smooth interior

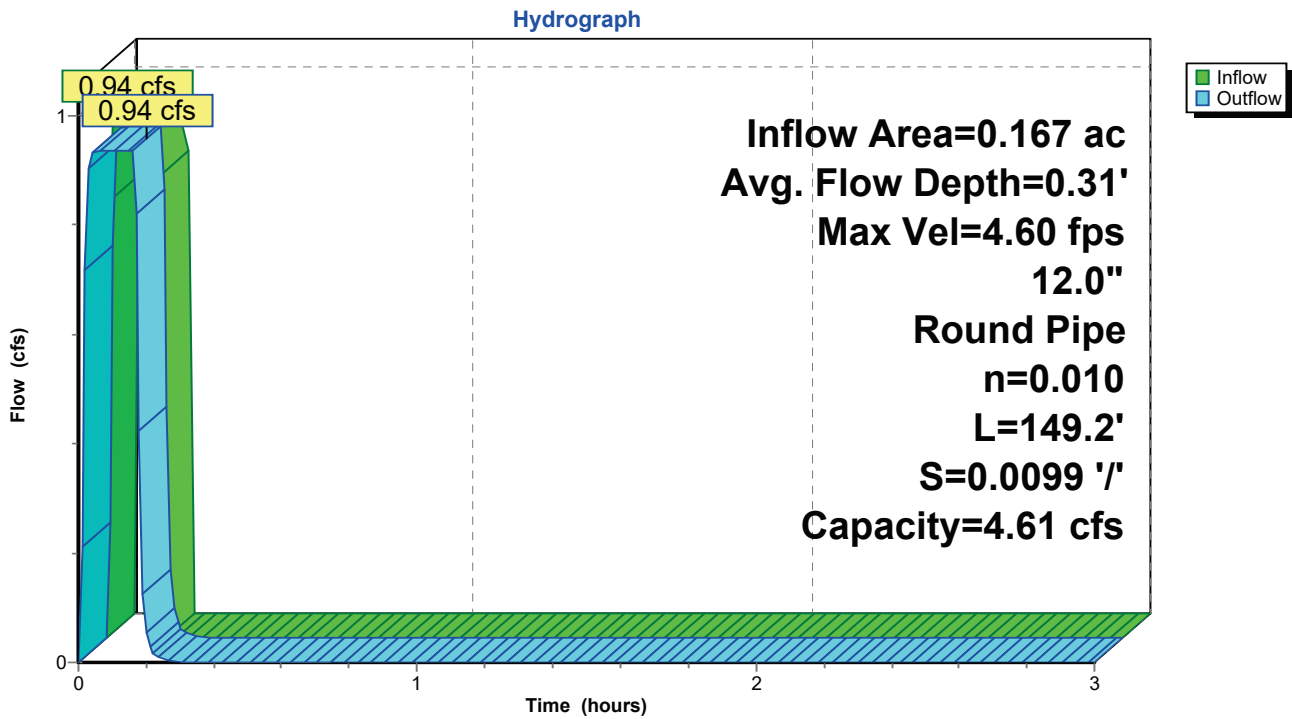
Length= 149.2' Slope= 0.0099 '/'

Inlet Invert= 750.17', Outlet Invert= 748.69'



340656 - Rantoul Transfer Station - Propd *L-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr*
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Reach R13: Pipe CA13 to I81



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Summary for Reach R14: Pipe I14 to Pond

[52] Hint: Inlet/Outlet conditions not evaluated

[90] Warning: Qout>Qin may require smaller dt or Finer Routing

Inflow Area = 9.773 ac, 23.45% Impervious, Inflow Depth = 0.39" for 10-yr event
 Inflow = 17.53 cfs @ 0.17 hrs, Volume= 0.320 af
 Outflow = 17.54 cfs @ 0.18 hrs, Volume= 0.320 af, Atten= 0%, Lag= 0.1 min
 Routed to Pond P1 : Detention Pond

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 13.44 fps, Min. Travel Time= 0.2 min

Avg. Velocity = 3.67 fps, Avg. Travel Time= 0.7 min

Peak Storage= 194 cf @ 0.18 hrs

Average Depth at Peak Storage= 0.87' , Surface Width= 1.98'

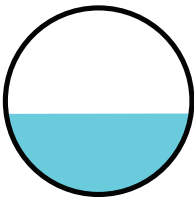
Bank-Full Depth= 2.00' Flow Area= 3.1 sf, Capacity= 45.04 cfs

24.0" Round Pipe

n= 0.012 Steel, smooth

Length= 148.6' Slope= 0.0338 '/'

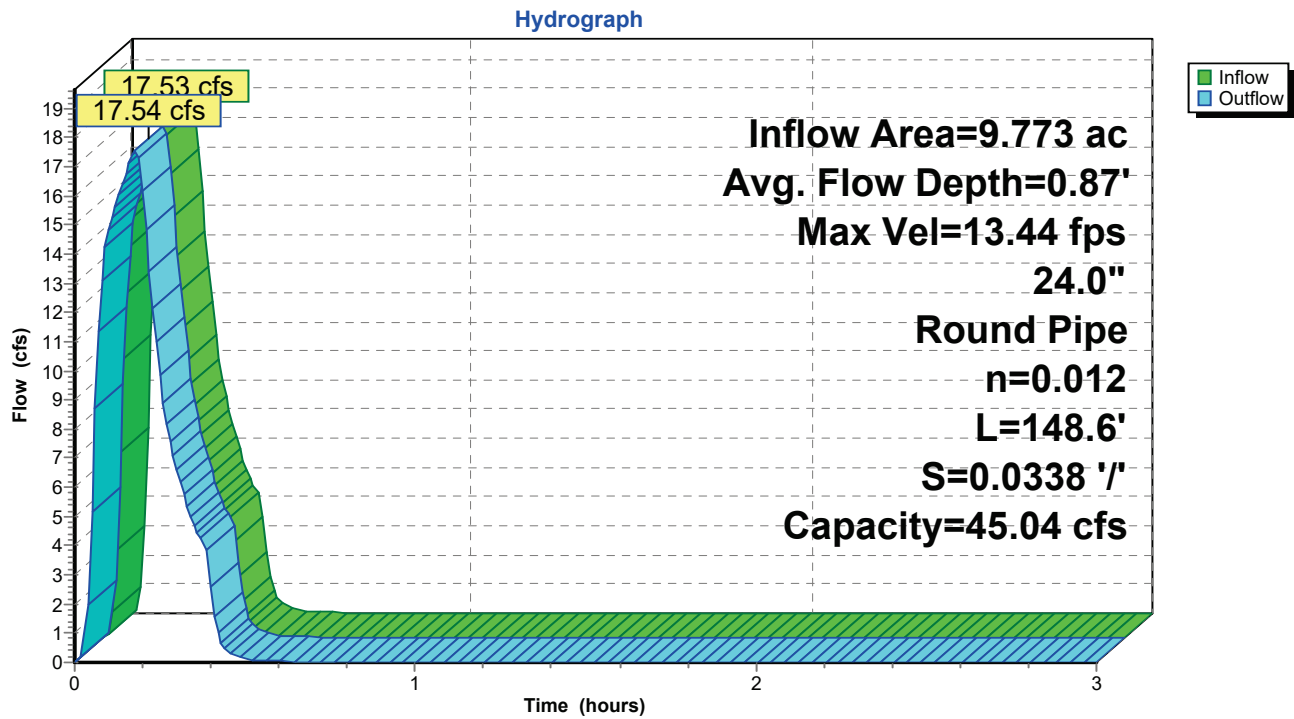
Inlet Invert= 741.84', Outlet Invert= 736.82'



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Reach R14: Pipe I14 to Pond



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Summary for Reach R15: Pipe I15 to I18

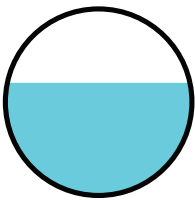
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 9.638 ac, 22.40% Impervious, Inflow Depth = 0.39" for 10-yr event
 Inflow = 16.91 cfs @ 0.17 hrs, Volume= 0.309 af
 Outflow = 16.89 cfs @ 0.18 hrs, Volume= 0.309 af, Atten= 0%, Lag= 0.2 min
 Routed to Pond I18 : Catch Basin 1-8

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Max. Velocity= 8.50 fps, Min. Travel Time= 0.3 min
 Avg. Velocity= 2.19 fps, Avg. Travel Time= 1.1 min

Peak Storage= 292 cf @ 0.18 hrs
 Average Depth at Peak Storage= 1.21' , Surface Width= 1.96'
 Bank-Full Depth= 2.00' Flow Area= 3.1 sf, Capacity= 24.84 cfs

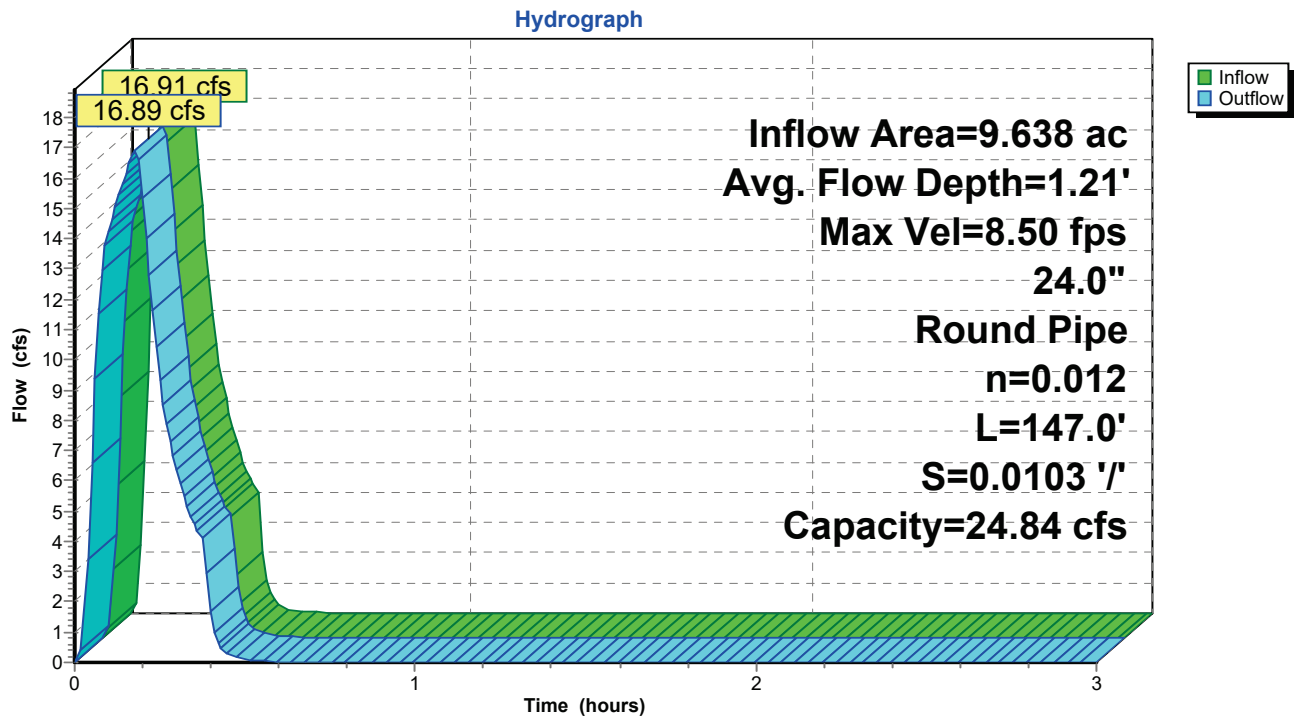
24.0" Round Pipe
 n= 0.012 Steel, smooth
 Length= 147.0' Slope= 0.0103 '/'
 Inlet Invert= 744.87', Outlet Invert= 743.36'



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Reach R15: Pipe I15 to I18



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Summary for Reach R16: Pipe I16 to I21

[52] Hint: Inlet/Outlet conditions not evaluated

[90] Warning: Qout>Qin may require smaller dt or Finer Routing

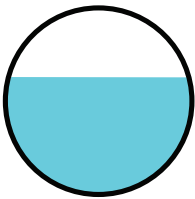
[80] Warning: Exceeded Pond I16 by 0.11' @ 0.24 hrs (0.06 cfs 0.000 af)

Inflow Area = 0.504 ac, 97.62% Impervious, Inflow Depth = 0.92" for 10-yr event
 Inflow = 2.82 cfs @ 0.07 hrs, Volume= 0.039 af
 Outflow = 2.83 cfs @ 0.08 hrs, Volume= 0.039 af, Atten= 0%, Lag= 0.6 min
 Routed to Pond I21 : Inlet 2-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Max. Velocity= 5.45 fps, Min. Travel Time= 0.3 min
 Avg. Velocity= 2.50 fps, Avg. Travel Time= 0.7 min

Peak Storage= 56 cf @ 0.08 hrs
 Average Depth at Peak Storage= 0.63' , Surface Width= 0.97'
 Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 3.93 cfs

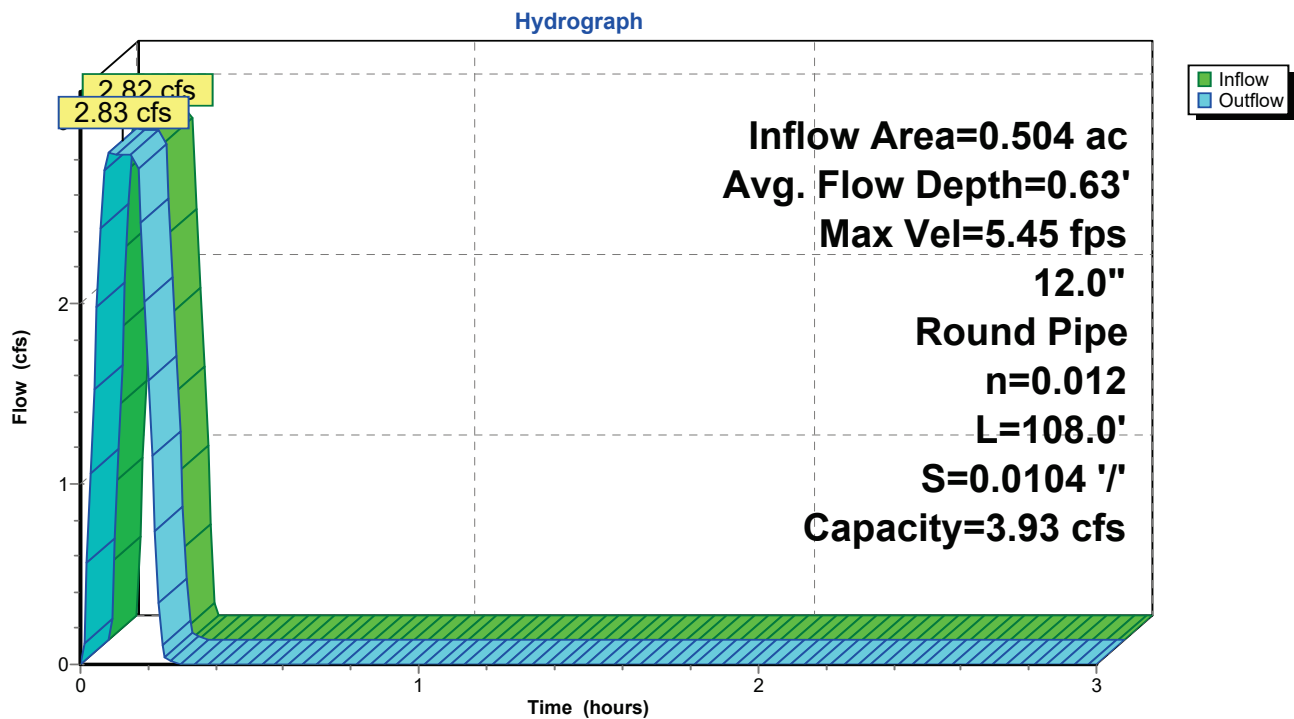
12.0" Round Pipe
 n= 0.012 Steel, smooth
 Length= 108.0' Slope= 0.0104 '/'
 Inlet Invert= 749.30', Outlet Invert= 748.18'



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Reach R16: Pipe I16 to I21



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Summary for Reach R17: Pipe I17 to Pond

[52] Hint: Inlet/Outlet conditions not evaluated

[55] Hint: Peak inflow is 108% of Manning's capacity

Inflow Area = 0.750 ac, 33.20% Impervious, Inflow Depth = 0.33" for 10-yr event
 Inflow = 1.46 cfs @ 0.17 hrs, Volume= 0.020 af
 Outflow = 1.46 cfs @ 0.17 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond P1 : Detention Pond

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 7.89 fps, Min. Travel Time= 0.0 min

Avg. Velocity= 6.49 fps, Avg. Travel Time= 0.1 min

Peak Storage= 4 cf @ 0.17 hrs

Average Depth at Peak Storage= 0.46' , Surface Width= 0.28'

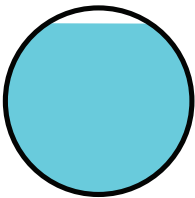
Bank-Full Depth= 0.50' Flow Area= 0.2 sf, Capacity= 1.36 cfs

6.0" Round Pipe

n= 0.012 Steel, smooth

Length= 20.0' Slope= 0.0500 '/'

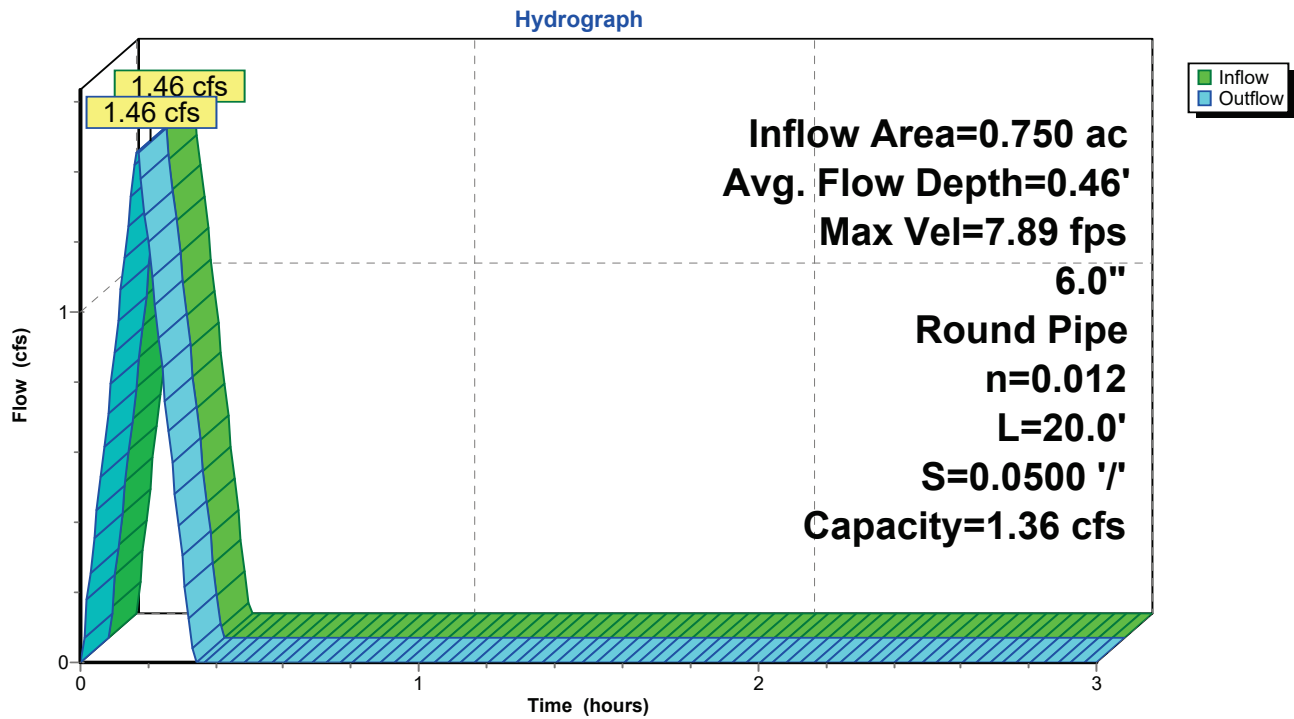
Inlet Invert= 745.50', Outlet Invert= 744.50'



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Reach R17: Pipe I17 to Pond



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Summary for Reach R18: Pipe I18 to I14

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 9.773 ac, 23.45% Impervious, Inflow Depth = 0.39" for 10-yr event
 Inflow = 17.55 cfs @ 0.17 hrs, Volume= 0.320 af
 Outflow = 17.53 cfs @ 0.17 hrs, Volume= 0.320 af, Atten= 0%, Lag= 0.1 min
 Routed to Pond I14 : Inlet 1-4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 14.86 fps, Min. Travel Time= 0.2 min

Avg. Velocity= 4.19 fps, Avg. Travel Time= 0.6 min

Peak Storage= 173 cf @ 0.17 hrs

Average Depth at Peak Storage= 0.80' , Surface Width= 1.96'

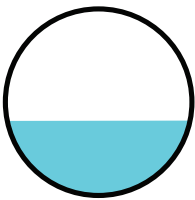
Bank-Full Depth= 2.00' Flow Area= 3.1 sf, Capacity= 51.69 cfs

24.0" Round Pipe

n= 0.012 Steel, smooth

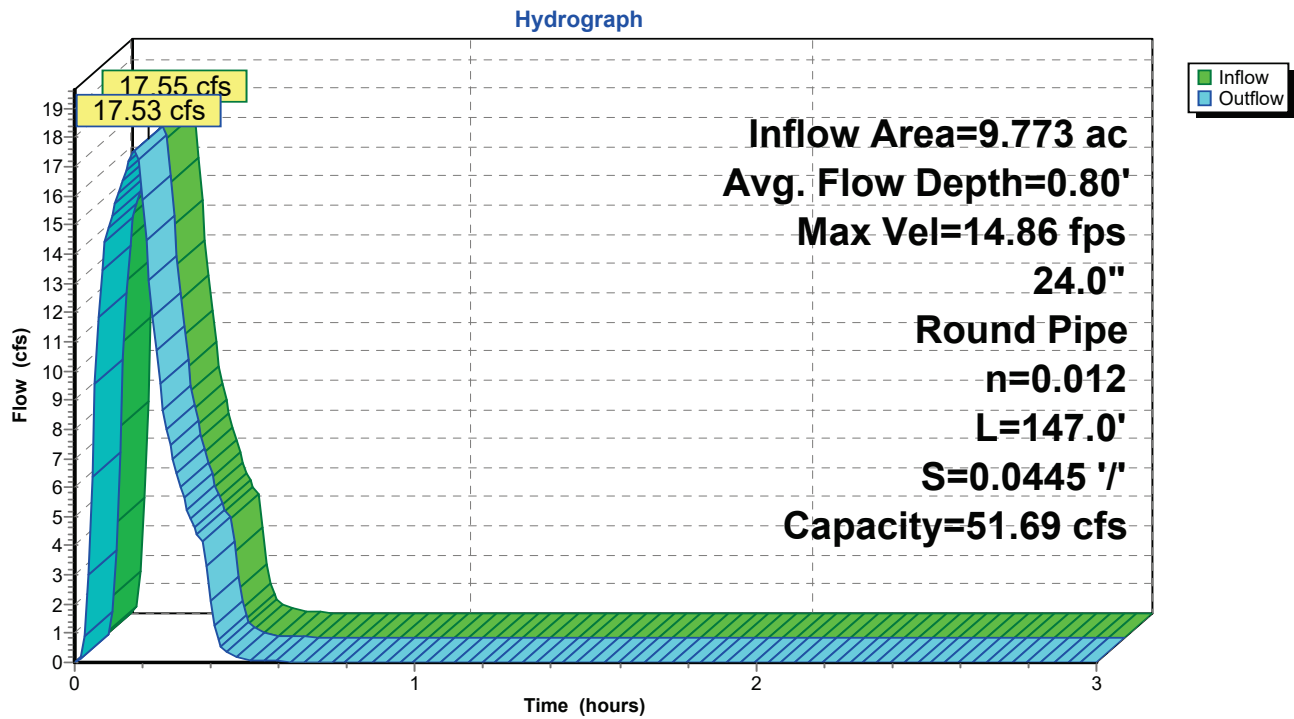
Length= 147.0' Slope= 0.0445 '/'

Inlet Invert= 743.36', Outlet Invert= 736.82'



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Reach R18: Pipe I18 to I14



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Summary for Reach R19: Pipe I19 to I14

[52] Hint: Inlet/Outlet conditions not evaluated

[90] Warning: Qout>Qin may require smaller dt or Finer Routing

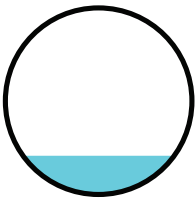
[80] Warning: Exceeded Pond I19 by 0.05' @ 0.22 hrs (0.01 cfs 0.000 af)

Inflow Area = 0.135 ac, 98.52% Impervious, Inflow Depth = 0.94" for 10-yr event
 Inflow = 0.76 cfs @ 0.07 hrs, Volume= 0.011 af
 Outflow = 0.77 cfs @ 0.06 hrs, Volume= 0.011 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond I18 : Catch Basin 1-8

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Max. Velocity= 6.53 fps, Min. Travel Time= 0.1 min
 Avg. Velocity= 5.78 fps, Avg. Travel Time= 0.1 min

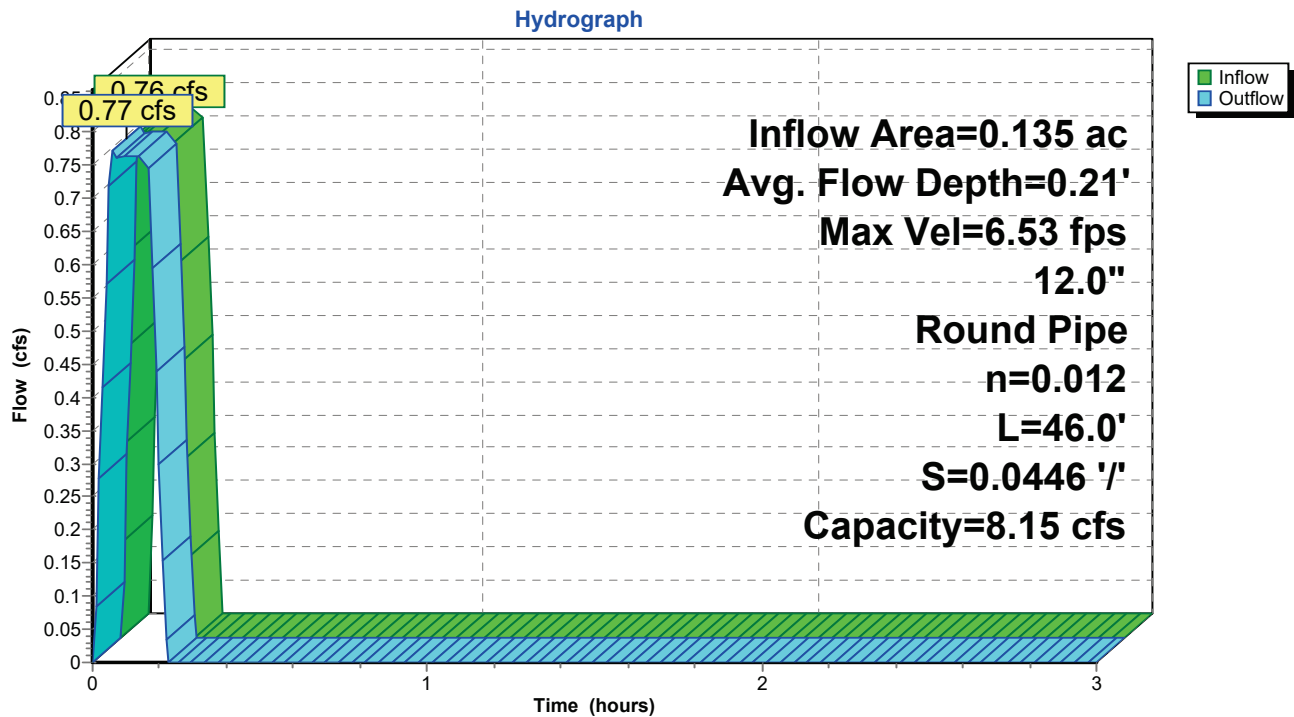
Peak Storage= 5 cf @ 0.06 hrs
 Average Depth at Peak Storage= 0.21' , Surface Width= 0.81'
 Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 8.15 cfs

12.0" Round Pipe
 n= 0.012 Steel, smooth
 Length= 46.0' Slope= 0.0446 '/'
 Inlet Invert= 745.41', Outlet Invert= 743.36'



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Reach R19: Pipe I19 to I14



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Summary for Reach R21: Pipe I21 to I15

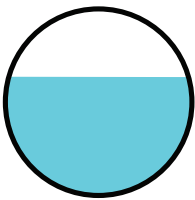
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 7.115 ac, 15.50% Impervious, Inflow Depth = 0.33" for 10-yr event
 Inflow = 12.87 cfs @ 0.17 hrs, Volume= 0.196 af
 Outflow = 12.72 cfs @ 0.17 hrs, Volume= 0.196 af, Atten= 1%, Lag= 0.3 min
 Routed to Pond I15 : Inlet 1-5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Max. Velocity= 6.04 fps, Min. Travel Time= 0.6 min
 Avg. Velocity= 1.42 fps, Avg. Travel Time= 2.6 min

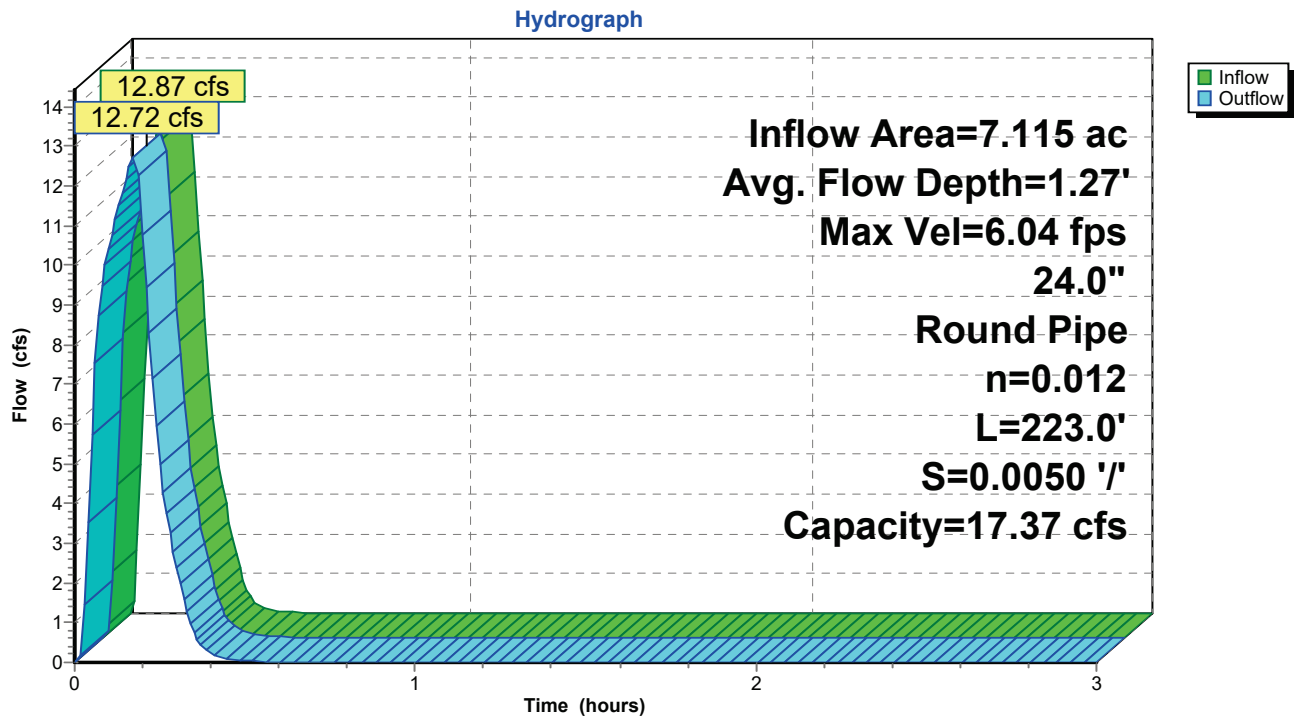
Peak Storage= 470 cf @ 0.17 hrs
 Average Depth at Peak Storage= 1.27' , Surface Width= 1.93'
 Bank-Full Depth= 2.00' Flow Area= 3.1 sf, Capacity= 17.37 cfs

24.0" Round Pipe
 n= 0.012 Steel, smooth
 Length= 223.0' Slope= 0.0050 '/'
 Inlet Invert= 746.00', Outlet Invert= 744.88'



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Reach R21: Pipe I21 to I15



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Summary for Reach R31: Pipe I31 to I21

[52] Hint: Inlet/Outlet conditions not evaluated

[55] Hint: Peak inflow is 103% of Manning's capacity

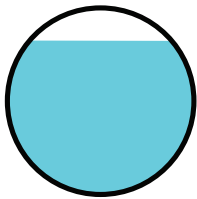
[80] Warning: Exceeded Pond I31 by 0.02' @ 0.04 hrs (1.34 cfs 0.002 af)

Inflow Area = 5.458 ac, 1.12% Impervious, Inflow Depth = 0.23" for 10-yr event
 Inflow = 7.11 cfs @ 0.17 hrs, Volume= 0.103 af
 Outflow = 6.95 cfs @ 0.17 hrs, Volume= 0.103 af, Atten= 2%, Lag= 0.3 min
 Routed to Pond I21 : Inlet 2-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Max. Velocity= 4.46 fps, Min. Travel Time= 0.6 min
 Avg. Velocity= 1.34 fps, Avg. Travel Time= 1.9 min

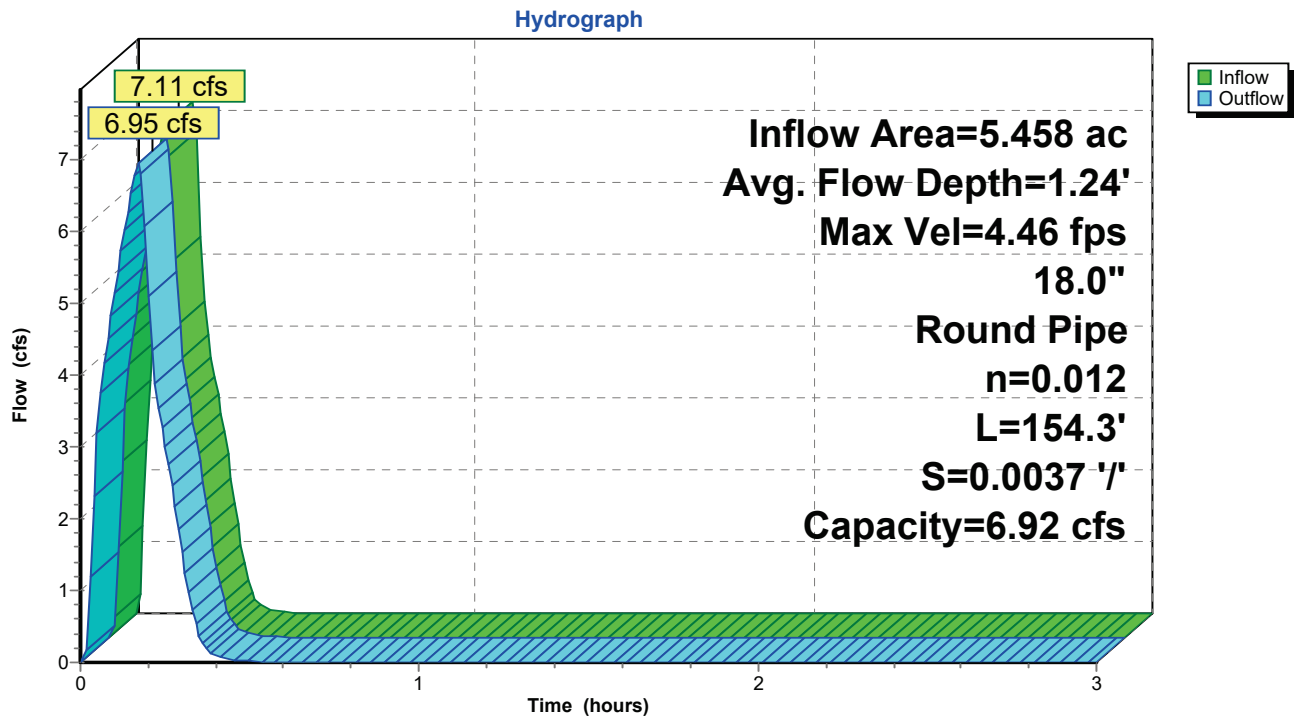
Peak Storage= 240 cf @ 0.17 hrs
 Average Depth at Peak Storage= 1.24' , Surface Width= 1.14'
 Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 6.92 cfs

18.0" Round Pipe
 n= 0.012 Steel, smooth
 Length= 154.3' Slope= 0.0037 '/'
 Inlet Invert= 747.75', Outlet Invert= 747.18'



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Reach R31: Pipe I31 to I21



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Summary for Reach R41: Pipe I41 to I31

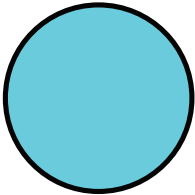
[52] Hint: Inlet/Outlet conditions not evaluated
 [55] Hint: Peak inflow is 135% of Manning's capacity
 [76] Warning: Detained 0.007 af (Pond w/culvert advised)
 [80] Warning: Exceeded Pond I41 by 1.00' @ 0.20 hrs (2.67 cfs 0.010 af)

Inflow Area = 0.503 ac, 100.00% Impervious, Inflow Depth = 0.94" for 10-yr event
 Inflow = 2.88 cfs @ 0.03 hrs, Volume= 0.040 af
 Outflow = 2.30 cfs @ 0.06 hrs, Volume= 0.040 af, Atten= 20%, Lag= 1.8 min
 Routed to Pond I21 : Inlet 2-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Max. Velocity= 3.10 fps, Min. Travel Time= 1.7 min
 Avg. Velocity= 0.71 fps, Avg. Travel Time= 7.7 min

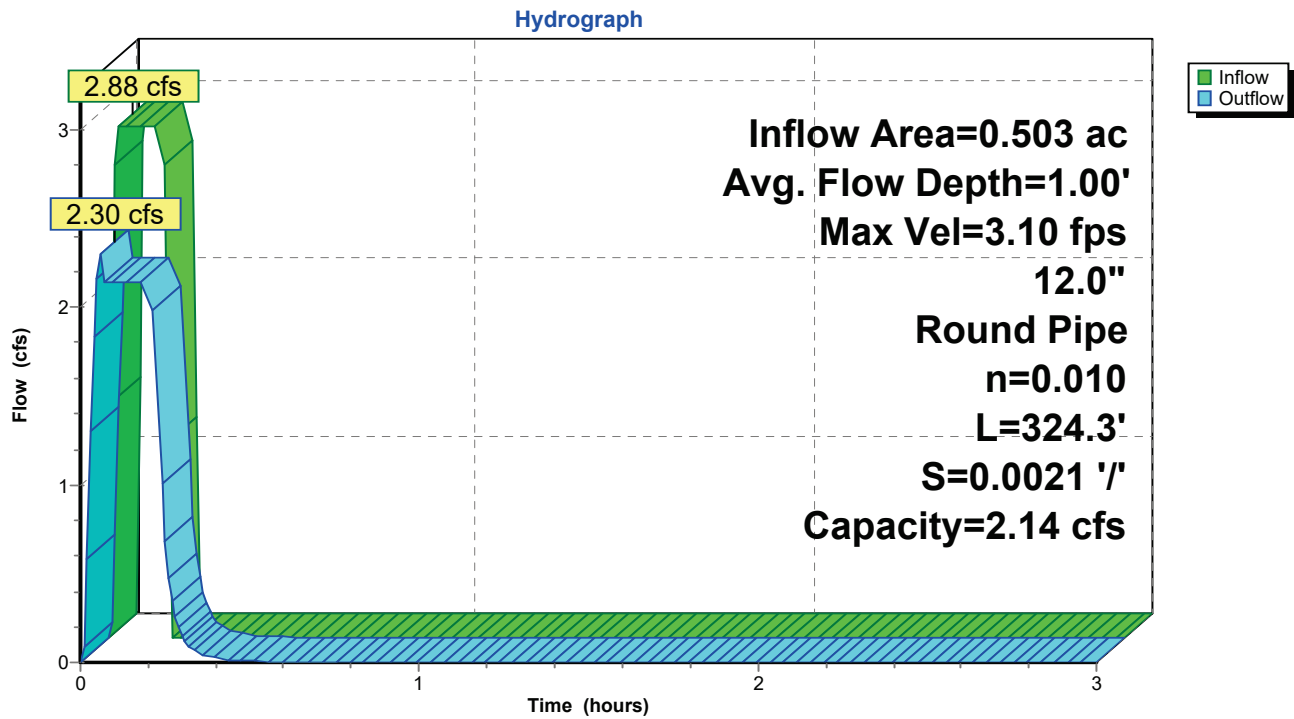
Peak Storage= 255 cf @ 0.07 hrs
 Average Depth at Peak Storage= 1.00'
 Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 2.14 cfs

12.0" Round Pipe
 n= 0.010 PVC, smooth interior
 Length= 324.3' Slope= 0.0021 '/'
 Inlet Invert= 748.86', Outlet Invert= 748.17'



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Reach R41: Pipe I41 to I31



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Summary for Reach R51: Pipe I51 to I31

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 2.540 ac, 1.02% Impervious, Inflow Depth = 0.21" for 10-yr event
 Inflow = 2.98 cfs @ 0.16 hrs, Volume= 0.044 af
 Outflow = 2.94 cfs @ 0.16 hrs, Volume= 0.044 af, Atten= 1%, Lag= 0.2 min
 Routed to Pond I31 : Manhole 3-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 5.58 fps, Min. Travel Time= 0.4 min

Avg. Velocity= 2.31 fps, Avg. Travel Time= 0.9 min

Peak Storage= 65 cf @ 0.16 hrs

Average Depth at Peak Storage= 0.56' , Surface Width= 1.24'

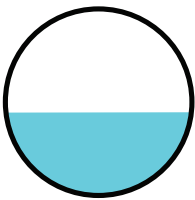
Bank-Full Depth= 1.25' Flow Area= 1.2 sf, Capacity= 7.22 cfs

15.0" Round Pipe

n= 0.012 Steel, smooth

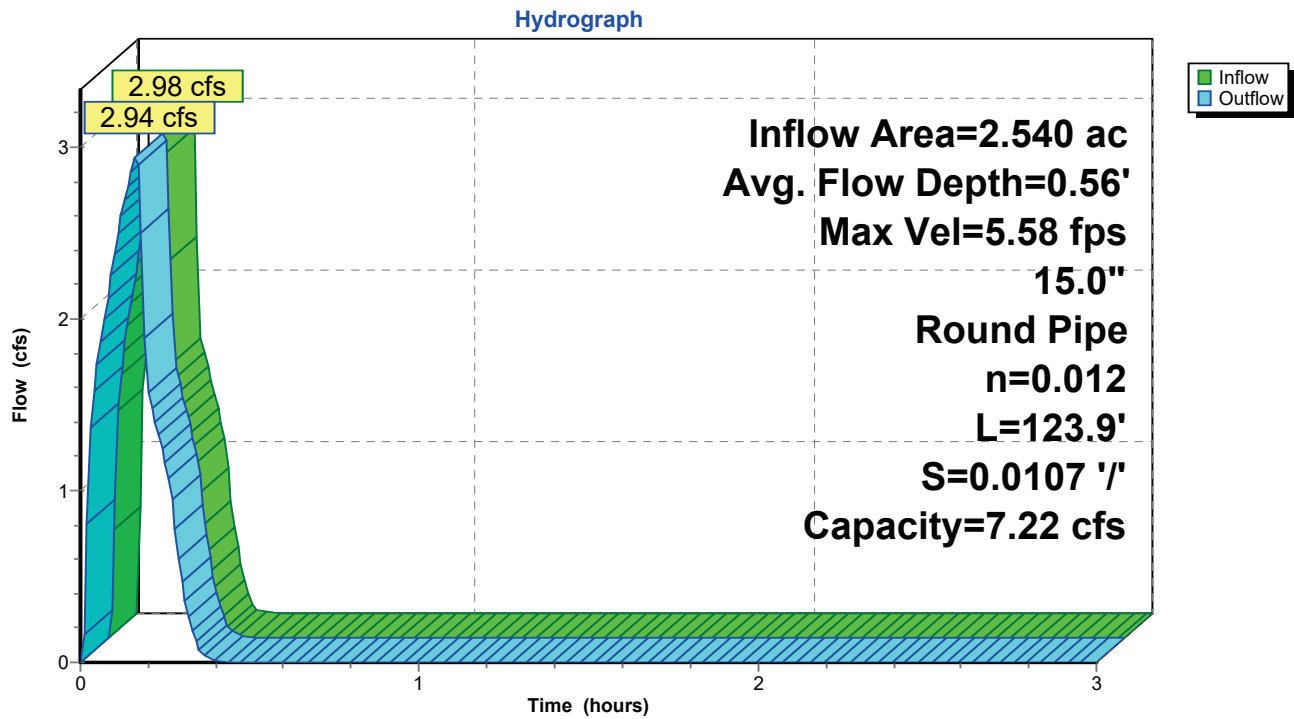
Length= 123.9' Slope= 0.0107 '/'

Inlet Invert= 749.07', Outlet Invert= 747.75'



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Reach R51: Pipe I51 to I31



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Summary for Reach R52: Pipe I52 to I51

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 2.186 ac, 0.27% Impervious, Inflow Depth = 0.14" for 10-yr event
 Inflow = 1.73 cfs @ 0.17 hrs, Volume= 0.026 af
 Outflow = 1.71 cfs @ 0.17 hrs, Volume= 0.026 af, Atten= 1%, Lag= 0.3 min
 Routed to Pond I51 : Inlet 5-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.53 fps, Min. Travel Time= 0.4 min

Avg. Velocity= 2.01 fps, Avg. Travel Time= 0.9 min

Peak Storage= 43 cf @ 0.17 hrs

Average Depth at Peak Storage= 0.49' , Surface Width= 1.00'

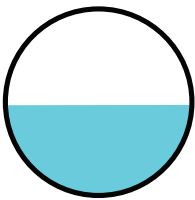
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 3.61 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

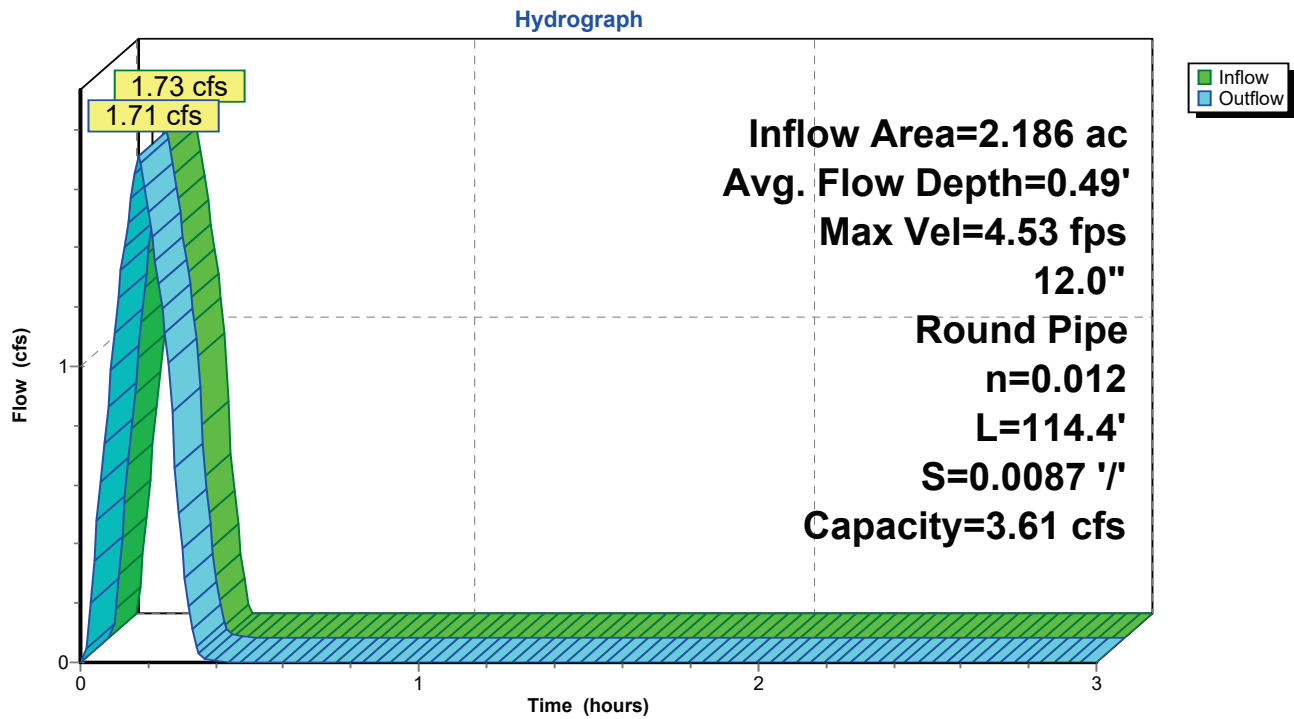
Length= 114.4' Slope= 0.0087 '/'

Inlet Invert= 750.10', Outlet Invert= 749.10'



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Reach R52: Pipe I52 to I51



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Summary for Reach R53: Pipe I53 to I52

[52] Hint: Inlet/Outlet conditions not evaluated

[55] Hint: Peak inflow is 131% of Manning's capacity

[76] Warning: Detained 0.001 af (Pond w/culvert advised)

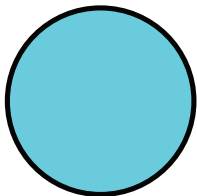
[80] Warning: Exceeded Pond I53 by 0.06' @ 0.31 hrs (0.01 cfs 0.000 af)

Inflow Area = 0.156 ac, 0.00% Impervious, Inflow Depth = 0.53" for 10-yr event
 Inflow = 0.50 cfs @ 0.13 hrs, Volume= 0.007 af
 Outflow = 0.39 cfs @ 0.11 hrs, Volume= 0.007 af, Atten= 21%, Lag= 0.0 min
 Routed to Pond I52 : Inlet 5-2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Max. Velocity= 2.21 fps, Min. Travel Time= 0.5 min
 Avg. Velocity= 1.07 fps, Avg. Travel Time= 1.0 min

Peak Storage= 12 cf @ 0.12 hrs
 Average Depth at Peak Storage= 0.50'
 Bank-Full Depth= 0.50' Flow Area= 0.2 sf, Capacity= 0.38 cfs

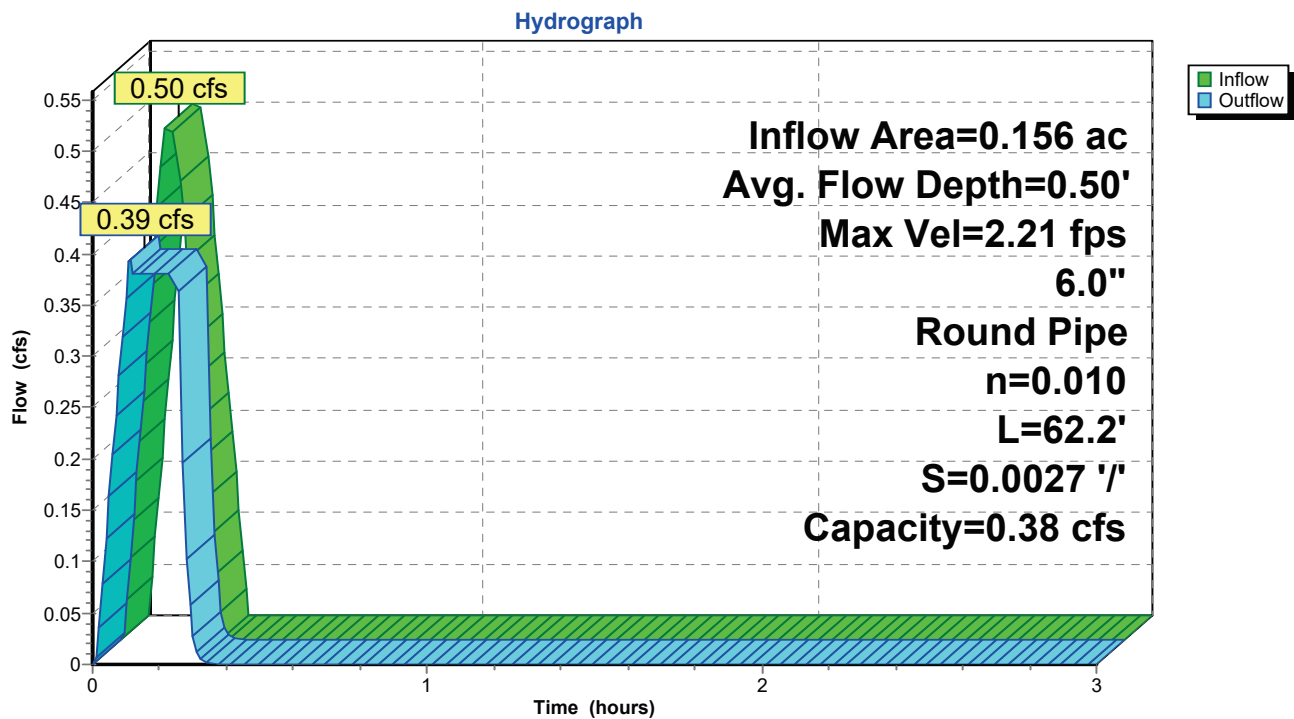
6.0" Round Pipe
 n= 0.010 PVC, smooth interior
 Length= 62.2' Slope= 0.0027 '
 Inlet Invert= 750.43', Outlet Invert= 750.26'



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Reach R53: Pipe I53 to I52



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Summary for Reach R54: Pipe I54 to I63

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond I63 : Inlet 6-3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min

Avg. Velocity= 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs

Average Depth at Peak Storage= 0.00'

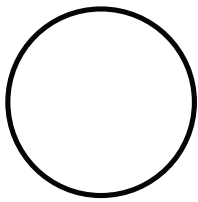
Bank-Full Depth= 0.50' Flow Area= 0.2 sf, Capacity= 0.57 cfs

6.0" Round Pipe

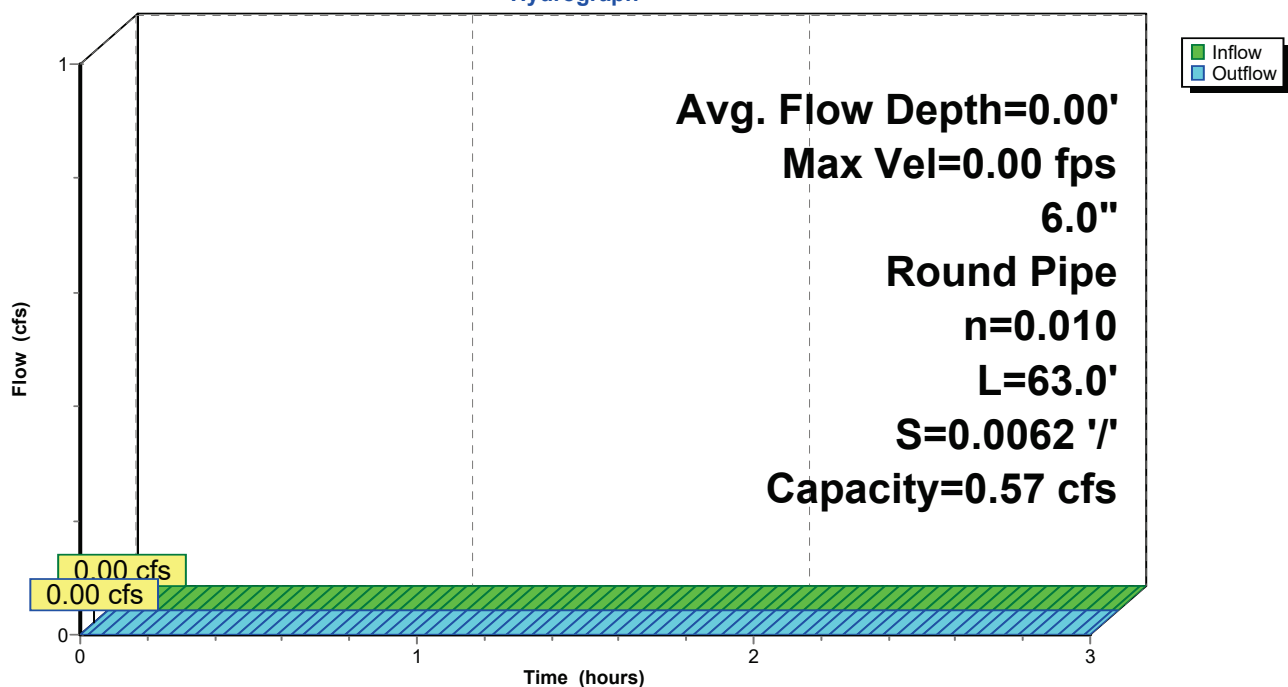
n= 0.010 PVC, smooth interior

Length= 63.0' Slope= 0.0062 1'

Inlet Invert= 750.30', Outlet Invert= 749.91'

**Reach R54: Pipe I54 to I63**

Hydrograph



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Reach R61: Pipe I61 to I31

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 2.408 ac, 0.00% Impervious, Inflow Depth = 0.20" for 10-yr event
 Inflow = 2.74 cfs @ 0.16 hrs, Volume= 0.039 af
 Outflow = 2.73 cfs @ 0.17 hrs, Volume= 0.039 af, Atten= 0%, Lag= 0.2 min
 Routed to Pond I31 : Manhole 3-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.41 fps, Min. Travel Time= 0.5 min

Avg. Velocity= 1.47 fps, Avg. Travel Time= 1.5 min

Peak Storage= 83 cf @ 0.17 hrs

Average Depth at Peak Storage= 0.63' , Surface Width= 1.25'

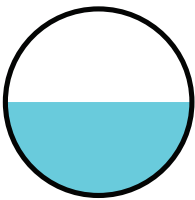
Bank-Full Depth= 1.25' Flow Area= 1.2 sf, Capacity= 5.41 cfs

15.0" Round Pipe

n= 0.012 Steel, smooth

Length= 133.8' Slope= 0.0060 '/'

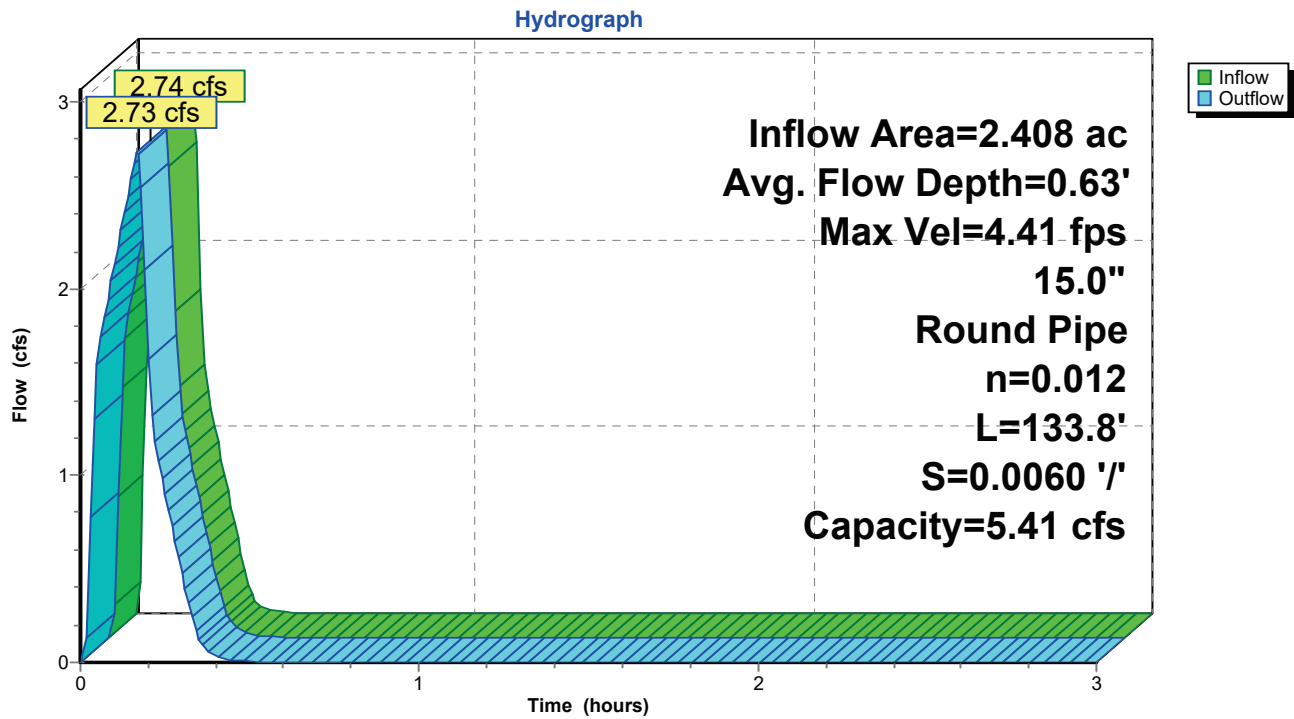
Inlet Invert= 748.55', Outlet Invert= 747.75'



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Reach R61: Pipe I61 to I31



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Summary for Reach R62: Pipe I62 to I61

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 1.749 ac, 0.00% Impervious, Inflow Depth = 0.21" for 10-yr event
 Inflow = 2.19 cfs @ 0.16 hrs, Volume= 0.031 af
 Outflow = 2.15 cfs @ 0.16 hrs, Volume= 0.031 af, Atten= 2%, Lag= 0.2 min
 Routed to Pond I61 : Manhole 6-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.09 fps, Min. Travel Time= 0.5 min

Avg. Velocity= 1.46 fps, Avg. Travel Time= 1.4 min

Peak Storage= 64 cf @ 0.16 hrs

Average Depth at Peak Storage= 0.63' , Surface Width= 0.96'

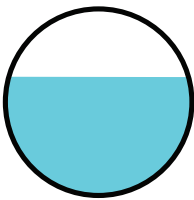
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 2.94 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

Length= 122.3' Slope= 0.0058 '/'

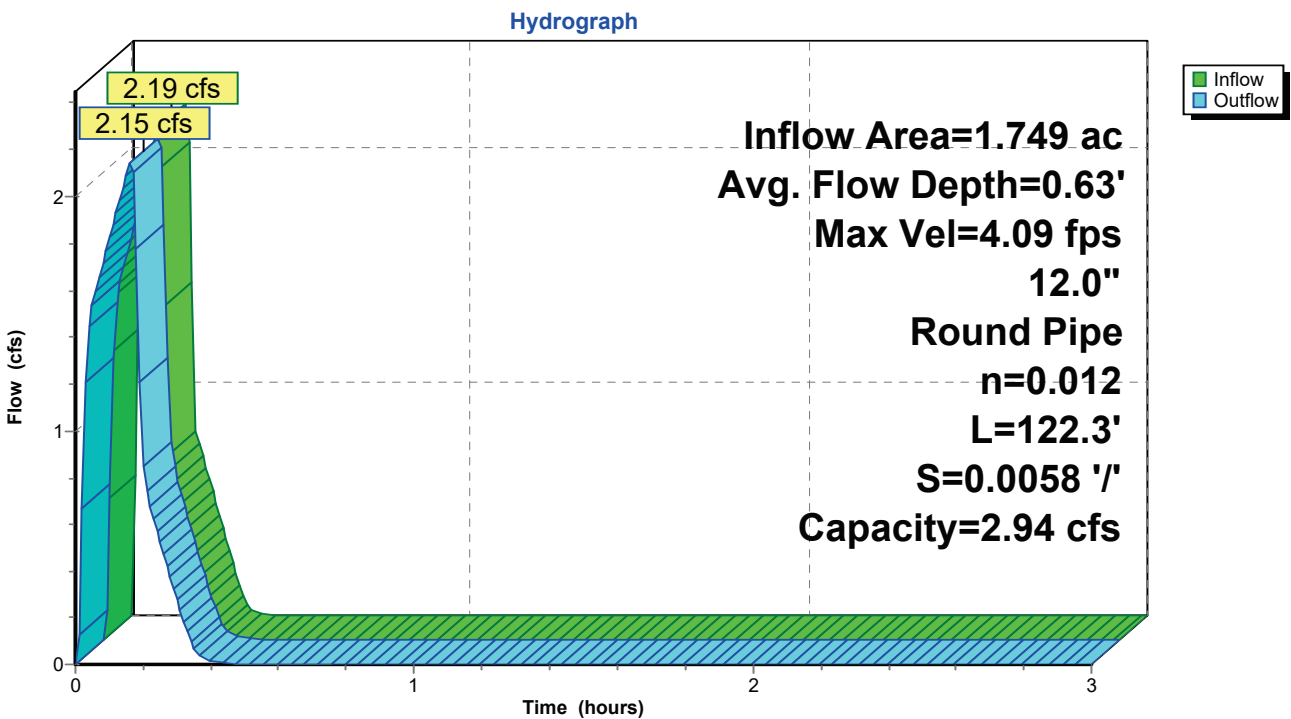
Inlet Invert= 749.32', Outlet Invert= 748.61'



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Reach R62: Pipe I62 to I61



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Summary for Reach R63: Pipe I63 to I62

[52] Hint: Inlet/Outlet conditions not evaluated

[80] Warning: Exceeded Pond I63 by 0.07' @ 0.35 hrs (0.02 cfs 0.000 af)

Inflow Area = 1.364 ac, 0.00% Impervious, Inflow Depth = 0.11" for 10-yr event
 Inflow = 0.85 cfs @ 0.17 hrs, Volume= 0.012 af
 Outflow = 0.83 cfs @ 0.17 hrs, Volume= 0.012 af, Atten= 2%, Lag= 0.4 min
 Routed to Pond I62 : Inlet 6-2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.00 fps, Min. Travel Time= 0.7 min

Avg. Velocity= 1.23 fps, Avg. Travel Time= 1.6 min

Peak Storage= 33 cf @ 0.17 hrs

Average Depth at Peak Storage= 0.38' , Surface Width= 0.97'

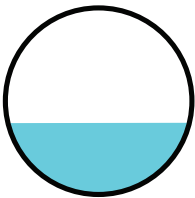
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 2.67 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

Length= 117.3' Slope= 0.0048 '/'

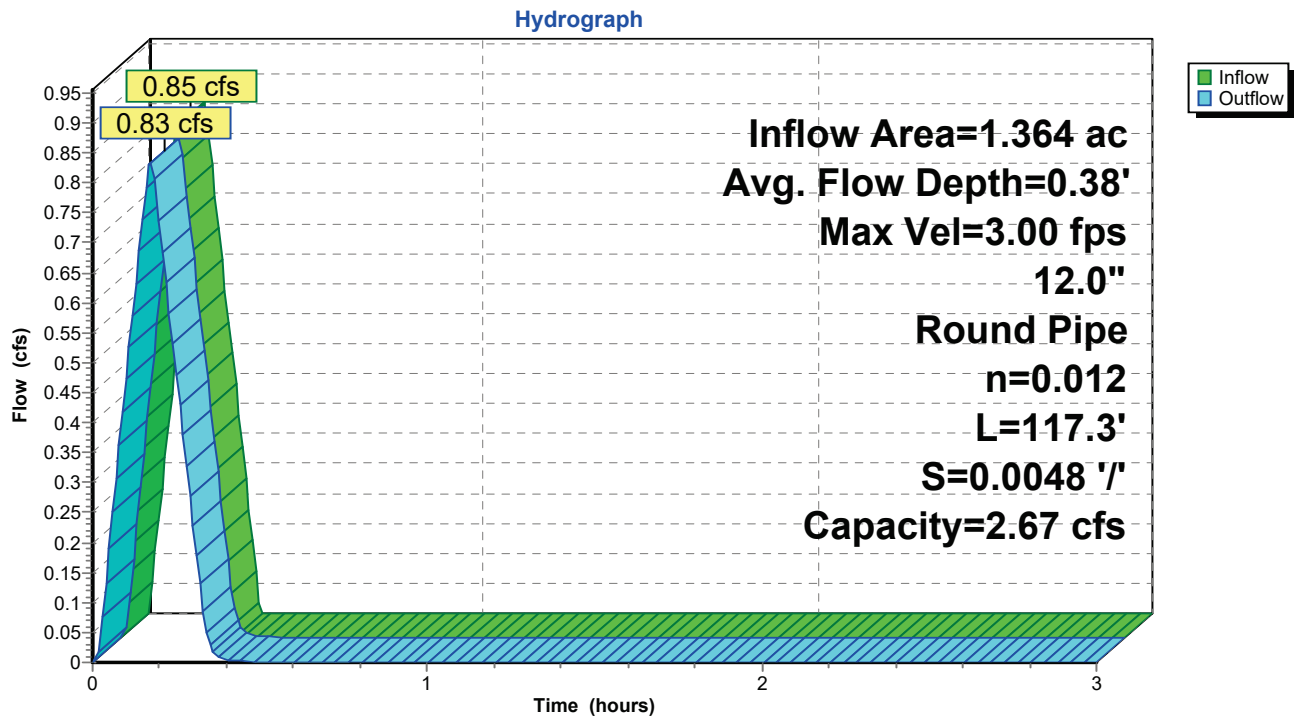
Inlet Invert= 749.91', Outlet Invert= 749.35'



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Reach R63: Pipe I63 to I62



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Summary for Reach R71: Pipe I71 to I15

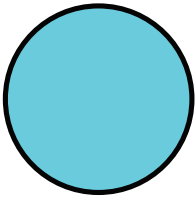
[52] Hint: Inlet/Outlet conditions not evaluated
 [55] Hint: Peak inflow is 202% of Manning's capacity
 [76] Warning: Detained 0.028 af (Pond w/culvert advised)

Inflow Area = 2.152 ac, 49.07% Impervious, Inflow Depth = 0.59" for 10-yr event
 Inflow = 7.48 cfs @ 0.17 hrs, Volume= 0.107 af
 Outflow = 3.74 cfs @ 0.08 hrs, Volume= 0.107 af, Atten= 50%, Lag= 0.0 min
 Routed to Pond I15 : Inlet 1-5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Max. Velocity= 5.36 fps, Min. Travel Time= 1.0 min
 Avg. Velocity= 1.70 fps, Avg. Travel Time= 3.0 min

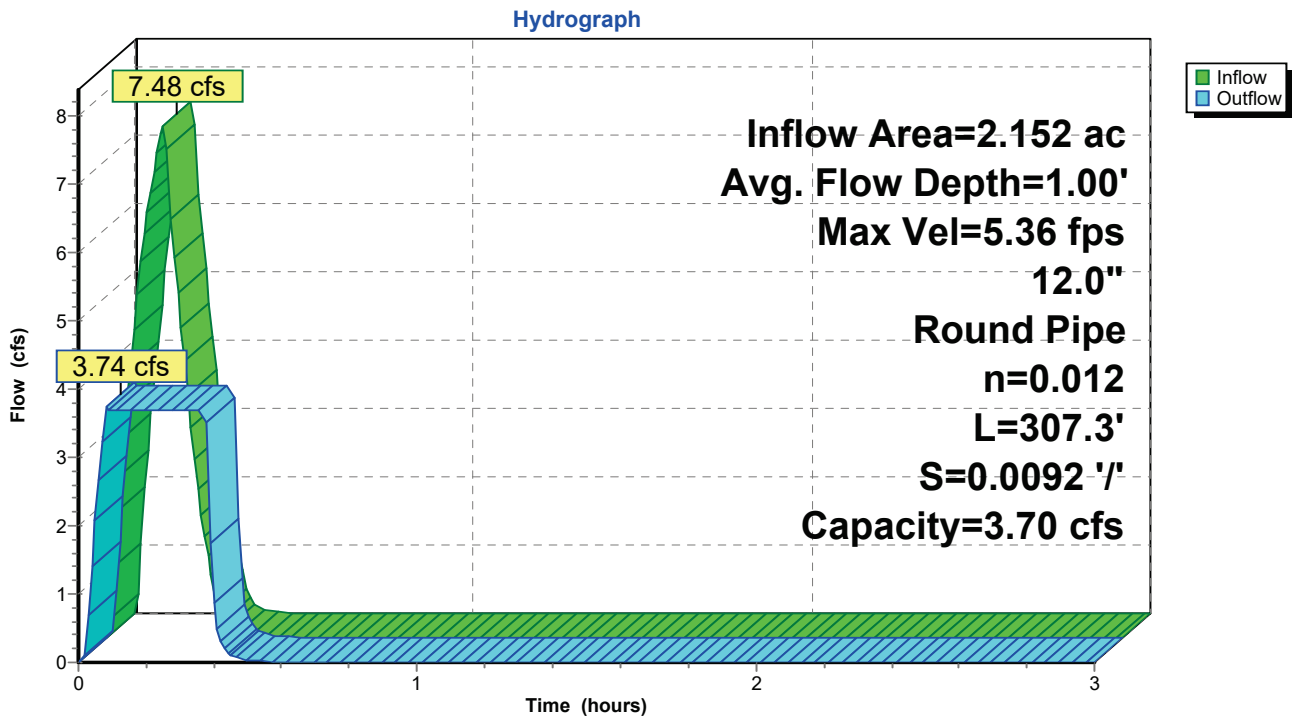
Peak Storage= 241 cf @ 0.09 hrs
 Average Depth at Peak Storage= 1.00'
 Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 3.70 cfs

12.0" Round Pipe
 n= 0.012 Steel, smooth
 Length= 307.3' Slope= 0.0092 '/'
 Inlet Invert= 747.78', Outlet Invert= 744.96'



340656 - Rantoul Transfer Station - Propd L-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr
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Reach R71: Pipe I71 to I15



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Summary for Reach R81: Pipe I81 to I71

[52] Hint: Inlet/Outlet conditions not evaluated

[90] Warning: Qout>Qin may require smaller dt or Finer Routing

Inflow Area = 0.792 ac, 48.74% Impervious, Inflow Depth = 0.63" for 10-yr event
 Inflow = 3.05 cfs @ 0.11 hrs, Volume= 0.042 af
 Outflow = 3.05 cfs @ 0.12 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.6 min
 Routed to Pond I71 : Inlet 7-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 6.21 fps, Min. Travel Time= 0.2 min

Avg. Velocity = 2.60 fps, Avg. Travel Time= 0.4 min

Peak Storage= 31 cf @ 0.12 hrs

Average Depth at Peak Storage= 0.60' , Surface Width= 0.98'

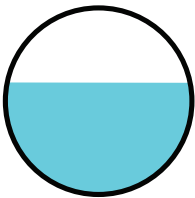
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 4.55 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

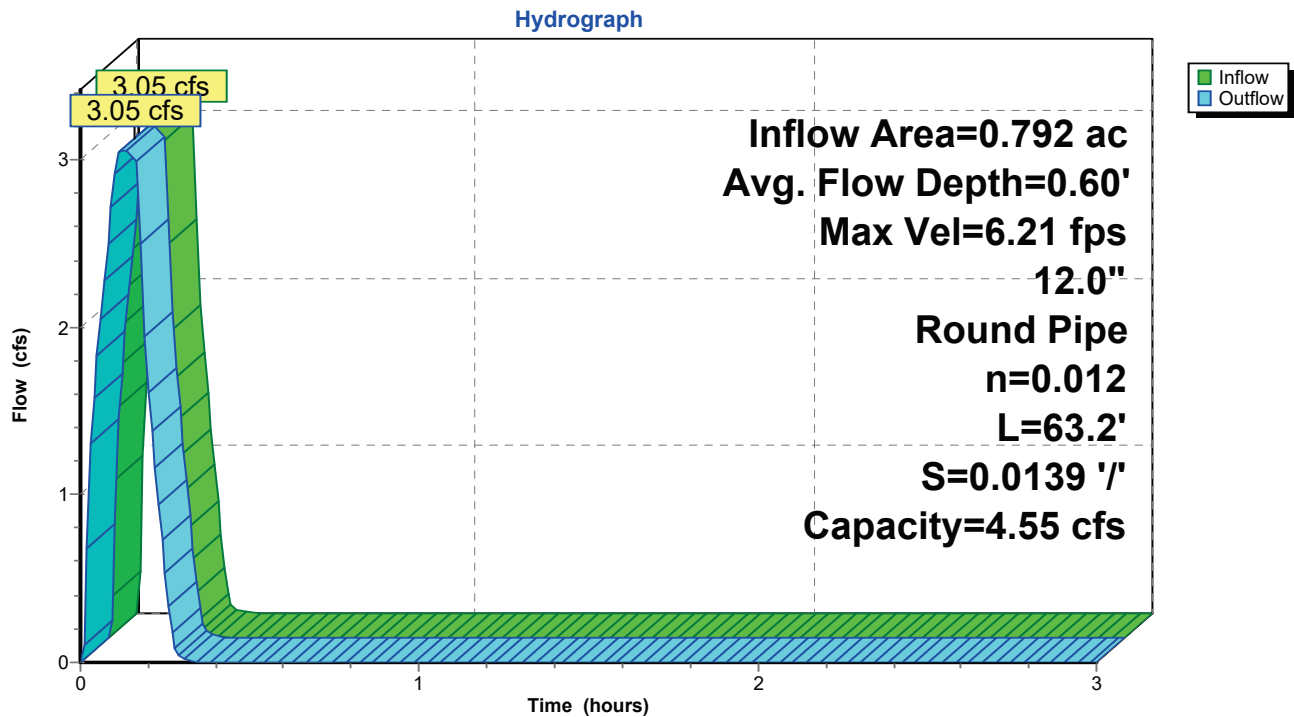
Length= 63.2' Slope= 0.0139 '/'

Inlet Invert= 748.66', Outlet Invert= 747.78'



340656 - Rantoul Transfer Station - Propd L-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr
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Reach R81: Pipe I81 to I71



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Summary for Reach R82: Pipe I82 to I81

[52] Hint: Inlet/Outlet conditions not evaluated

[80] Warning: Exceeded Pond I82 by 0.07' @ 0.28 hrs (0.02 cfs 0.000 af)

Inflow Area = 0.625 ac, 35.68% Impervious, Inflow Depth = 0.56" for 10-yr event
 Inflow = 2.11 cfs @ 0.10 hrs, Volume= 0.029 af
 Outflow = 2.11 cfs @ 0.11 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.6 min
 Routed to Pond I81 : Inlet 8-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 5.85 fps, Min. Travel Time= 0.4 min

Avg. Velocity= 2.68 fps, Avg. Travel Time= 0.8 min

Peak Storage= 49 cf @ 0.11 hrs

Average Depth at Peak Storage= 0.47' , Surface Width= 1.00'

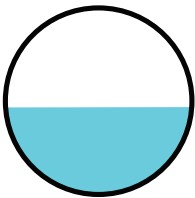
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 4.73 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

Length= 136.0' Slope= 0.0150 '/'

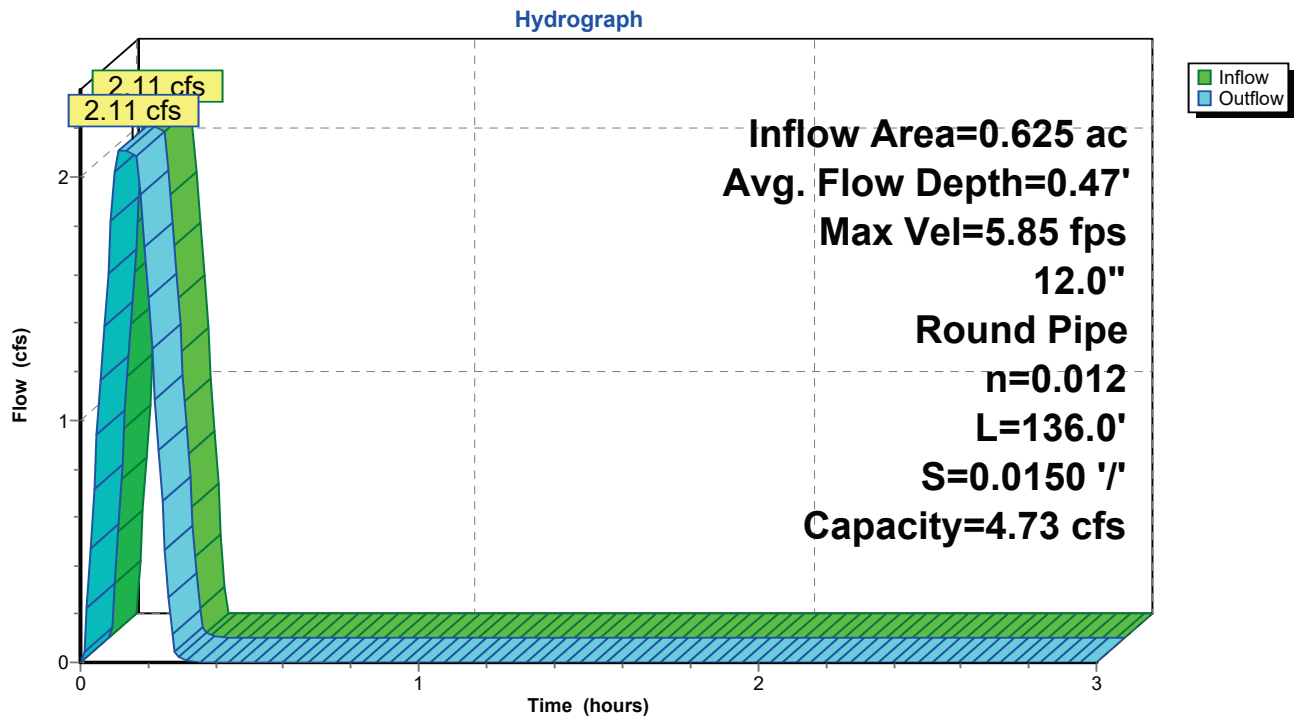
Inlet Invert= 750.74', Outlet Invert= 748.70'



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Reach R82: Pipe I82 to I81



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Summary for Reach R91: Pipe I91 to I71

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 0.640 ac, 25.31% Impervious, Inflow Depth = 0.50" for 10-yr event
 Inflow = 1.88 cfs @ 0.17 hrs, Volume= 0.027 af
 Outflow = 1.84 cfs @ 0.18 hrs, Volume= 0.027 af, Atten= 3%, Lag= 0.6 min
 Routed to Pond I71 : Inlet 7-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.16 fps, Min. Travel Time= 0.8 min

Avg. Velocity= 1.35 fps, Avg. Travel Time= 2.6 min

Peak Storage= 91 cf @ 0.18 hrs

Average Depth at Peak Storage= 0.55' , Surface Width= 1.00'

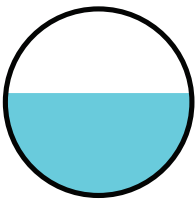
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 3.14 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

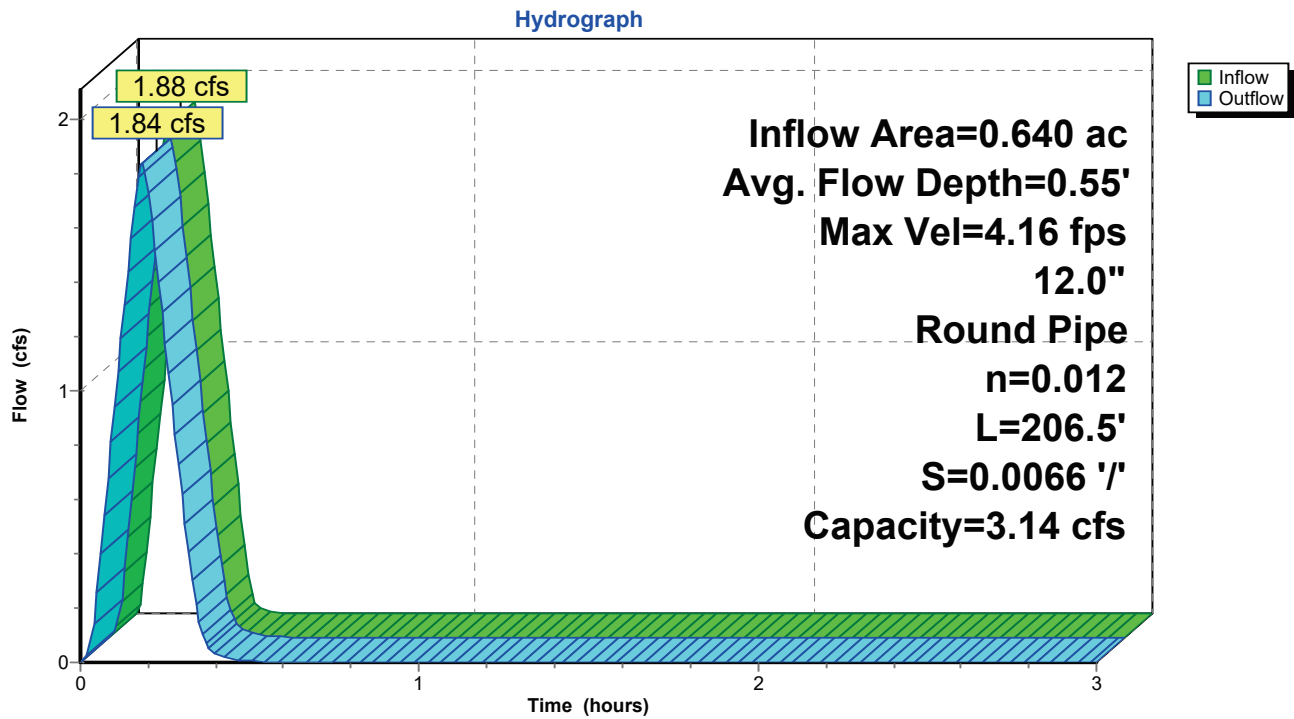
Length= 206.5' Slope= 0.0066 '/'

Inlet Invert= 750.30', Outlet Invert= 748.93'



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Reach R91: Pipe I91 to I71



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Summary for Reach R92: Pipe I92 to I91

[52] Hint: Inlet/Outlet conditions not evaluated

[80] Warning: Exceeded Pond I92 by 0.10' @ 0.34 hrs (0.05 cfs 0.000 af)

Inflow Area = 0.531 ac, 21.66% Impervious, Inflow Depth = 0.49" for 10-yr event
 Inflow = 1.54 cfs @ 0.17 hrs, Volume= 0.022 af
 Outflow = 1.51 cfs @ 0.17 hrs, Volume= 0.022 af, Atten= 2%, Lag= 0.3 min
 Routed to Pond I91 : Inlet 9-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.01 fps, Min. Travel Time= 0.6 min

Avg. Velocity= 1.64 fps, Avg. Travel Time= 1.4 min

Peak Storage= 50 cf @ 0.17 hrs

Average Depth at Peak Storage= 0.48' , Surface Width= 1.00'

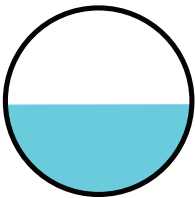
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 3.20 cfs

12.0" Round Pipe

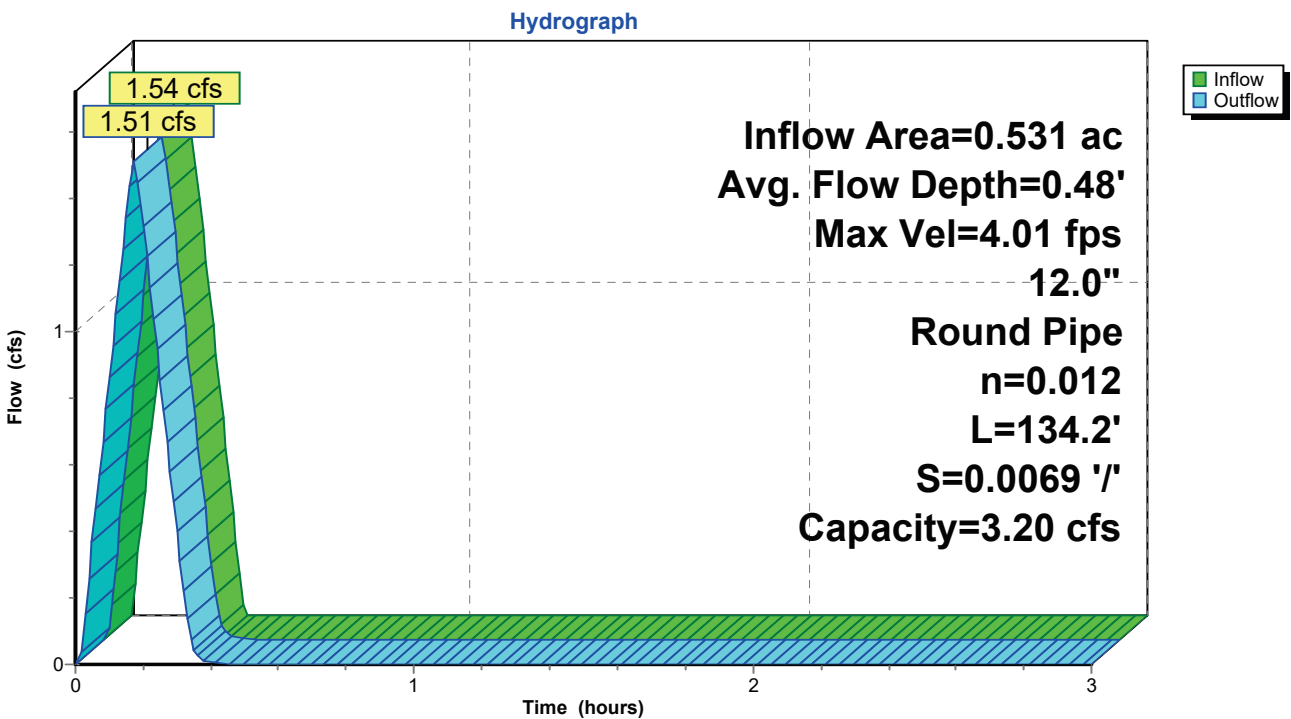
n= 0.012 Steel, smooth

Length= 134.2' Slope= 0.0069 '/'

Inlet Invert= 751.22', Outlet Invert= 750.30'



Reach R92: Pipe I92 to I91



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Summary for Pond I14: Inlet 1-4

[57] Hint: Peaked at 743.27' (Flood elevation advised)

[62] Hint: Exceeded Reach R18 OUTLET depth by 5.65' @ 0.18 hrs

Inflow Area = 9.773 ac, 23.45% Impervious, Inflow Depth = 0.39" for 10-yr event
 Inflow = 17.53 cfs @ 0.17 hrs, Volume= 0.320 af
 Outflow = 17.53 cfs @ 0.17 hrs, Volume= 0.320 af, Atten= 0%, Lag= 0.0 min
 Primary = 17.53 cfs @ 0.17 hrs, Volume= 0.320 af
 Routed to Reach R14 : Pipe I14 to Pond

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 743.27' @ 0.18 hrs

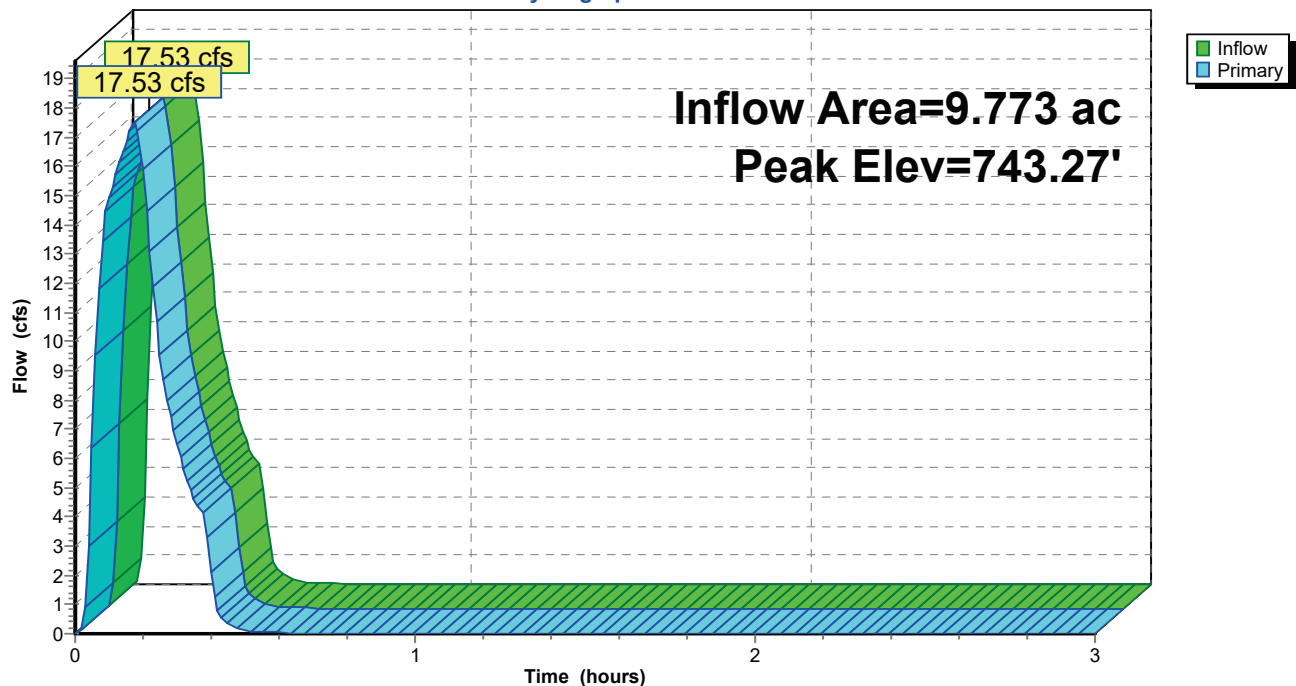
Device	Routing	Invert	Outlet Devices
#1	Primary	741.84'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	741.84'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	743.84'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=17.41 cfs @ 0.17 hrs HW=743.27' TW=742.70' (Dynamic Tailwater)

- 1=Orifice/Grate (Orifice Controls 8.70 cfs @ 3.62 fps)
- 2=Orifice/Grate (Orifice Controls 8.70 cfs @ 3.62 fps)
- 3=Orifice/Grate (Controls 0.00 cfs)

Pond I14: Inlet 1-4

Hydrograph



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Summary for Pond I15: Inlet 1-5

[57] Hint: Peaked at 746.43' (Flood elevation advised)

[62] Hint: Exceeded Reach R21 OUTLET depth by 0.48' @ 0.38 hrs

[62] Hint: Exceeded Reach R71 OUTLET depth by 0.47' @ 0.18 hrs

Inflow Area = 9.638 ac, 22.40% Impervious, Inflow Depth = 0.39" for 10-yr event
 Inflow = 16.91 cfs @ 0.17 hrs, Volume= 0.309 af
 Outflow = 16.91 cfs @ 0.17 hrs, Volume= 0.309 af, Atten= 0%, Lag= 0.0 min
 Primary = 16.91 cfs @ 0.17 hrs, Volume= 0.309 af
 Routed to Reach R15 : Pipe I15 to I18

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 746.43' @ 0.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	744.87'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	744.96'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	744.96'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=16.60 cfs @ 0.17 hrs HW=746.42' TW=746.08' (Dynamic Tailwater)

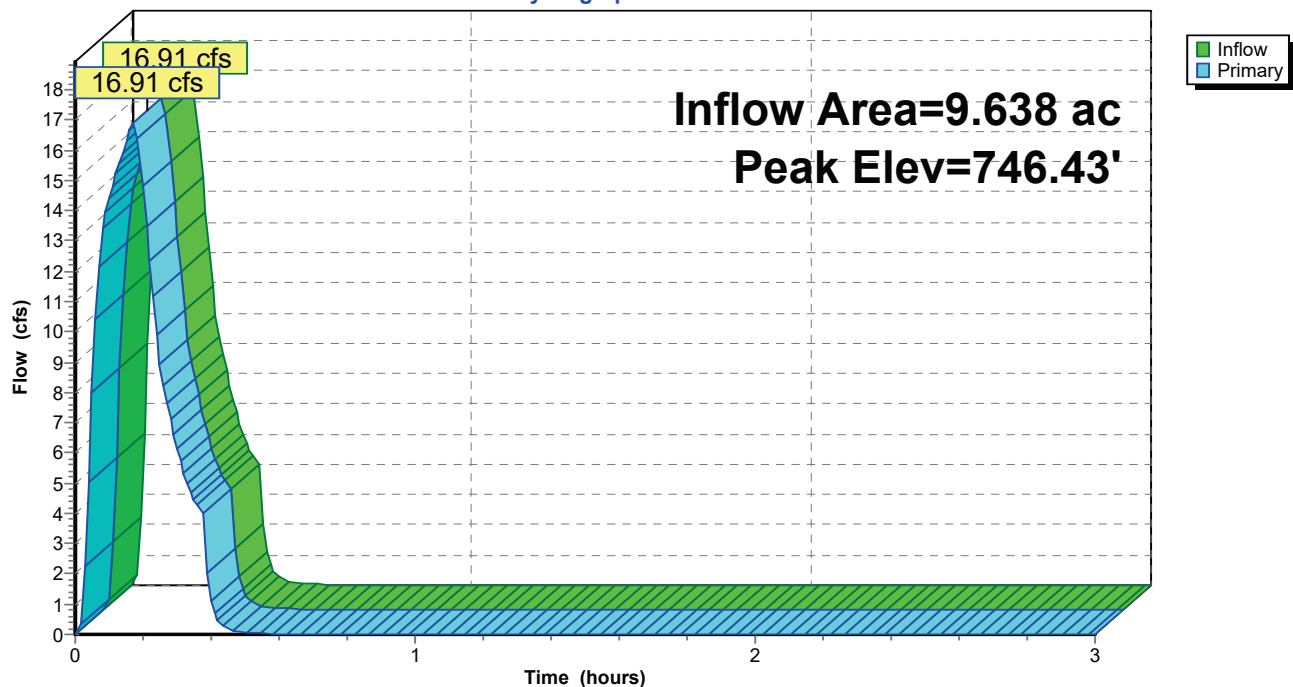
1=Orifice/Grate (Orifice Controls 7.41 cfs @ 2.83 fps)

2=Orifice/Grate (Orifice Controls 2.22 cfs @ 2.83 fps)

3=Orifice/Grate (Orifice Controls 6.97 cfs @ 2.83 fps)

Pond I15: Inlet 1-5

Hydrograph



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Summary for Pond I16: Inlet 1-6

[57] Hint: Peaked at 750.49' (Flood elevation advised)

Inflow Area = 0.504 ac, 97.62% Impervious, Inflow Depth = 0.92" for 10-yr event
 Inflow = 2.82 cfs @ 0.07 hrs, Volume= 0.039 af
 Outflow = 2.82 cfs @ 0.07 hrs, Volume= 0.039 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.82 cfs @ 0.07 hrs, Volume= 0.039 af
 Routed to Reach R16 : Pipe I16 to I21

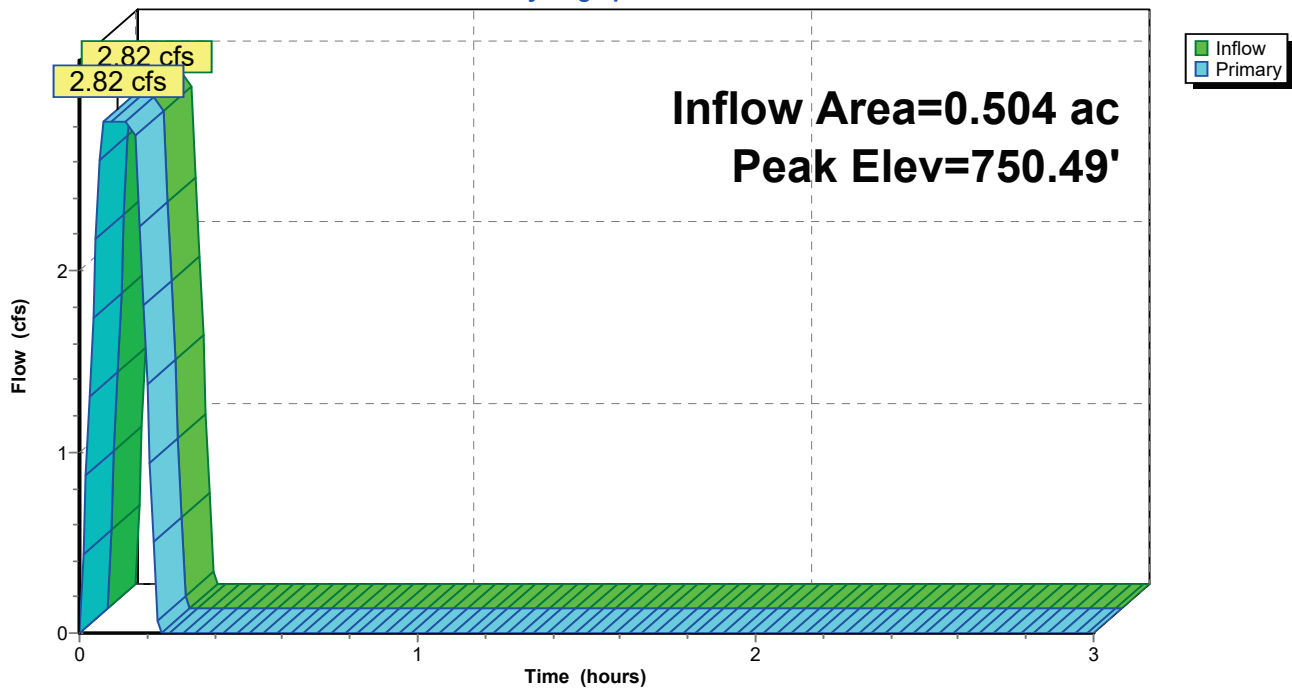
Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 750.49' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	749.30'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=2.70 cfs @ 0.07 hrs HW=750.42' TW=749.91' (Dynamic Tailwater)
 ↑ **1=Orifice/Grate** (Orifice Controls 2.70 cfs @ 3.44 fps)

Pond I16: Inlet 1-6

Hydrograph



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Summary for Pond I17: Trench Drain 1-7

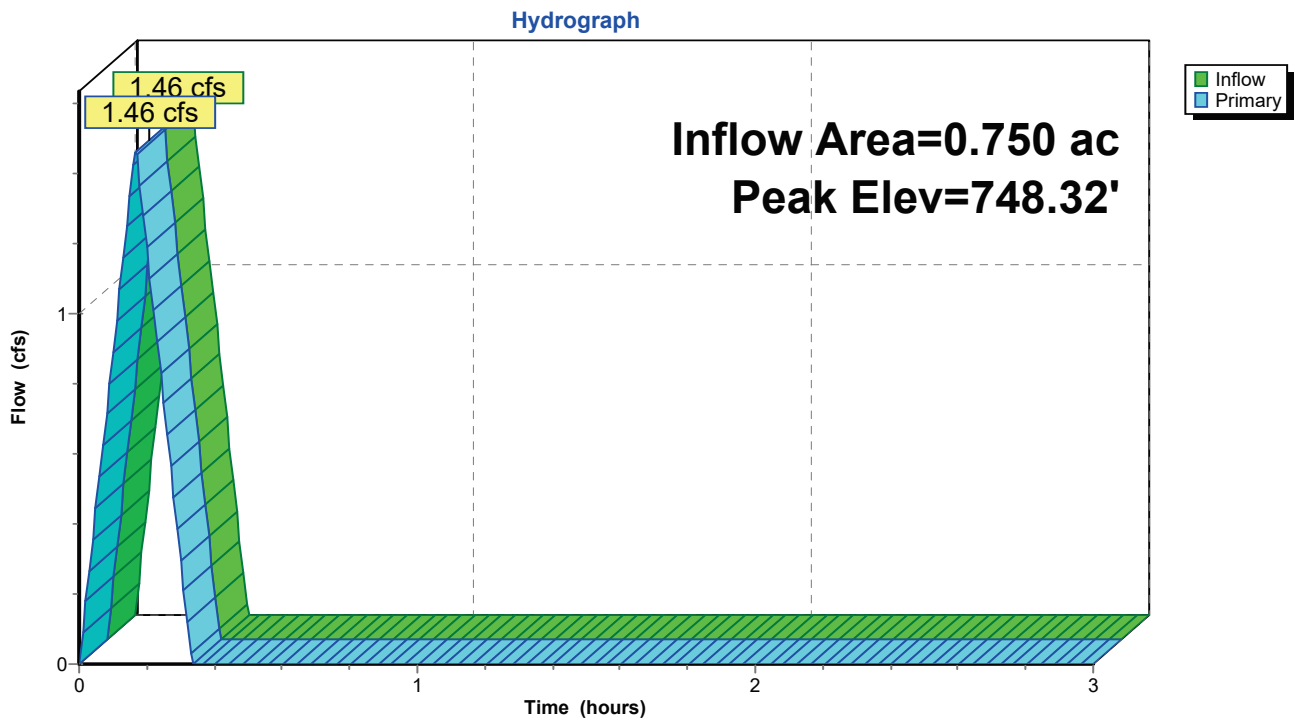
[57] Hint: Peaked at 748.32' (Flood elevation advised)

Inflow Area = 0.750 ac, 33.20% Impervious, Inflow Depth = 0.33" for 10-yr event
 Inflow = 1.46 cfs @ 0.17 hrs, Volume= 0.020 af
 Outflow = 1.46 cfs @ 0.17 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.46 cfs @ 0.17 hrs, Volume= 0.020 af
 Routed to Reach R17 : Pipe I17 to Pond

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 748.32' @ 0.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	745.50'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.44 cfs @ 0.17 hrs HW=748.28' TW=745.95' (Dynamic Tailwater)
 ↳ **1=Orifice/Grate** (Orifice Controls 1.44 cfs @ 7.35 fps)

Pond I17: Trench Drain 1-7

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Summary for Pond I18: Catch Basin 1-8

[57] Hint: Peaked at 744.76' (Flood elevation advised)

[62] Hint: Exceeded Reach R15 OUTLET depth by 0.19' @ 0.16 hrs

[62] Hint: Exceeded Reach R19 OUTLET depth by 1.22' @ 0.19 hrs

Inflow Area = 9.773 ac, 23.45% Impervious, Inflow Depth = 0.39" for 10-yr event
 Inflow = 17.55 cfs @ 0.17 hrs, Volume= 0.320 af
 Outflow = 17.55 cfs @ 0.17 hrs, Volume= 0.320 af, Atten= 0%, Lag= 0.0 min
 Primary = 17.55 cfs @ 0.17 hrs, Volume= 0.320 af
 Routed to Reach R18 : Pipe I18 to I14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 744.76' @ 0.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	743.36'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	743.36'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

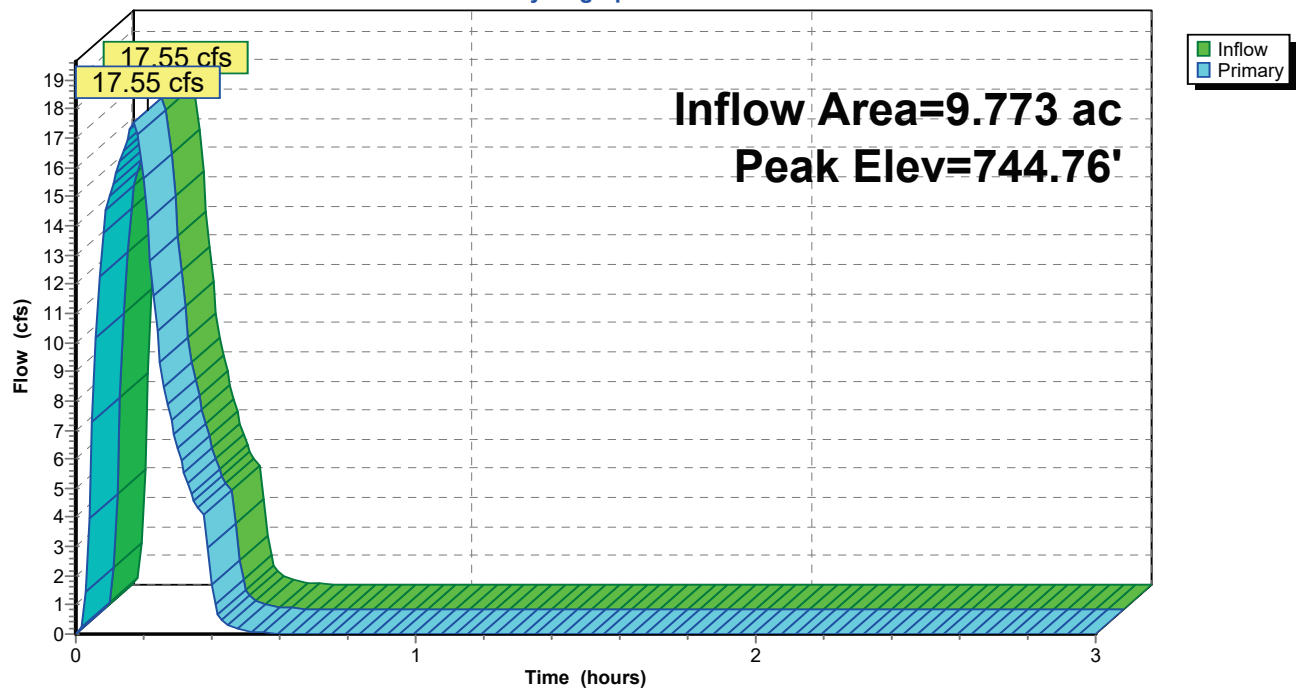
Primary OutFlow Max=17.44 cfs @ 0.17 hrs HW=744.76' TW=744.16' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 8.72 cfs @ 3.72 fps)

2=Orifice/Grate (Orifice Controls 8.72 cfs @ 3.72 fps)

Pond I18: Catch Basin 1-8

Hydrograph



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Pond I19: Inlet 1-9

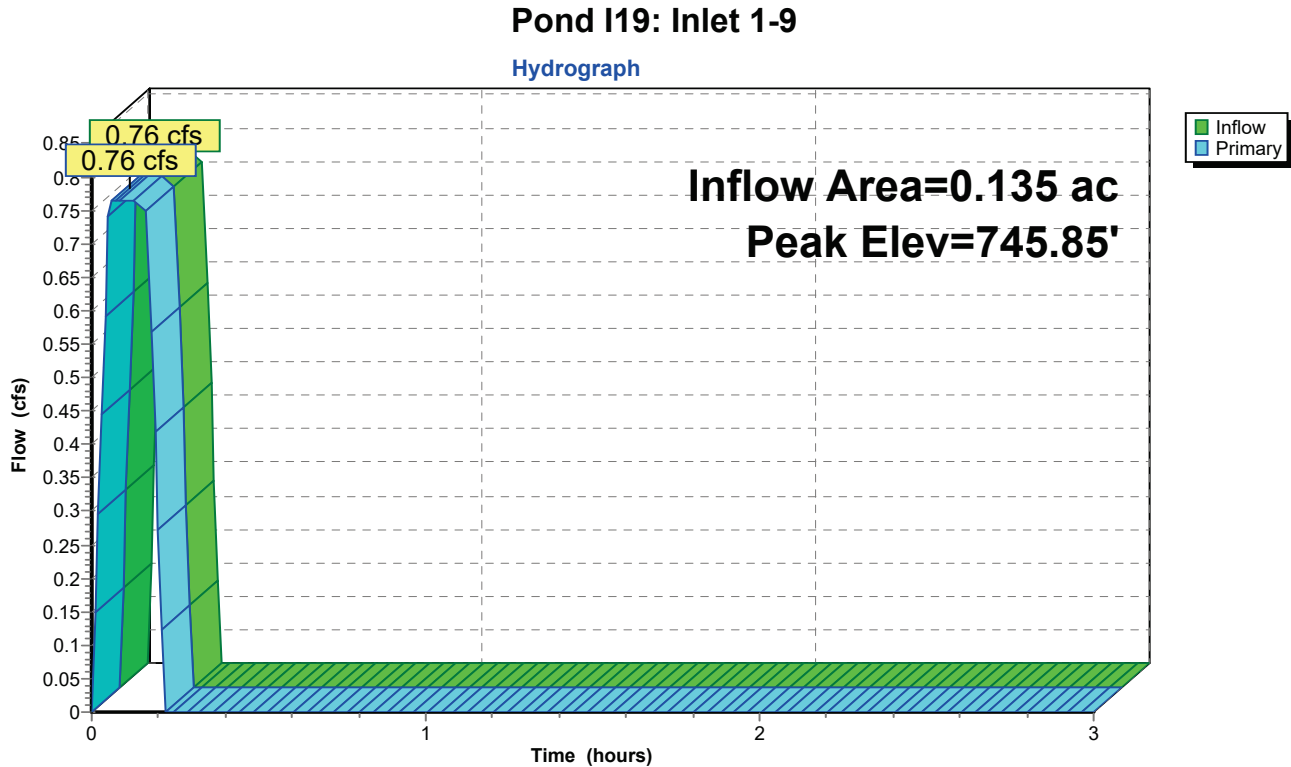
[57] Hint: Peaked at 745.85' (Flood elevation advised)

Inflow Area = 0.135 ac, 98.52% Impervious, Inflow Depth = 0.94" for 10-yr event
 Inflow = 0.76 cfs @ 0.06 hrs, Volume= 0.011 af
 Outflow = 0.76 cfs @ 0.07 hrs, Volume= 0.011 af, Atten= 0%, Lag= 0.6 min
 Primary = 0.76 cfs @ 0.07 hrs, Volume= 0.011 af
 Routed to Reach R19 : Pipe I19 to I14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 745.85' @ 0.06 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	745.41'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.76 cfs @ 0.07 hrs HW=745.85' TW=745.62' (Dynamic Tailwater)
 ↑ **1=Orifice/Grate** (Orifice Controls 0.76 cfs @ 2.27 fps)



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Pond I21: Inlet 2-1

[57] Hint: Peaked at 748.60' (Flood elevation advised)

[61] Hint: Exceeded Reach R16 outlet invert by 0.42' @ 0.17 hrs

[62] Hint: Exceeded Reach R31 OUTLET depth by 0.42' @ 0.06 hrs

[61] Hint: Exceeded Reach R41 outlet invert by 0.43' @ 0.17 hrs

Inflow Area = 7.115 ac, 15.50% Impervious, Inflow Depth = 0.33" for 10-yr event
 Inflow = 12.87 cfs @ 0.17 hrs, Volume= 0.196 af
 Outflow = 12.87 cfs @ 0.17 hrs, Volume= 0.196 af, Atten= 0%, Lag= 0.0 min
 Primary = 12.87 cfs @ 0.17 hrs, Volume= 0.196 af
 Routed to Reach R21 : Pipe I21 to I15

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 748.60' @ 0.17 hrs

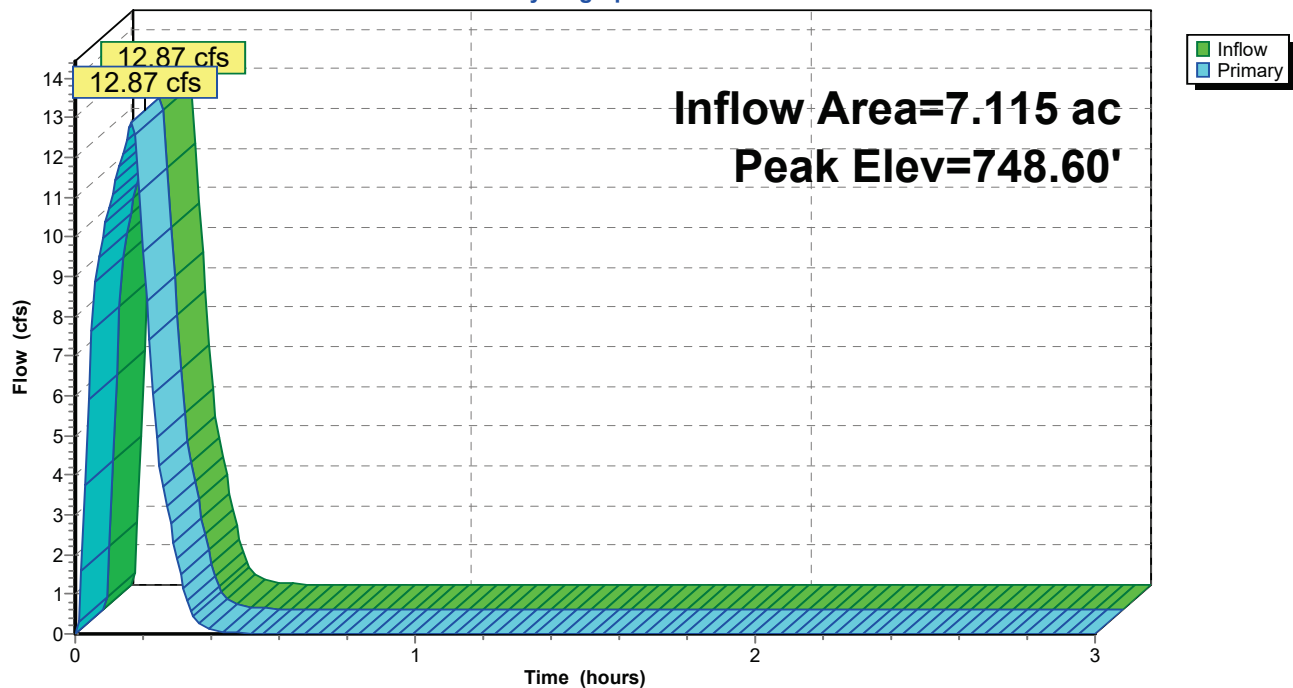
Device	Routing	Invert	Outlet Devices
#1	Primary	747.10'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	748.18'	18.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	748.17'	12.0" Vert. Orifice/Grate X 2.00 C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=12.80 cfs @ 0.17 hrs HW=748.60' TW=747.27' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 10.50 cfs @ 4.17 fps)

2=Orifice/Grate (Orifice Controls 0.88 cfs @ 2.20 fps)

3=Orifice/Grate (Orifice Controls 1.42 cfs @ 2.22 fps)

Pond I21: Inlet 2-1**Hydrograph**

340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Pond I31: Manhole 3-1

[57] Hint: Peaked at 749.09' (Flood elevation advised)

[62] Hint: Exceeded Reach R51 OUTLET depth by 0.84' @ 0.19 hrs

[62] Hint: Exceeded Reach R61 OUTLET depth by 0.74' @ 0.18 hrs

Inflow Area = 5.458 ac, 1.12% Impervious, Inflow Depth = 0.23" for 10-yr event
 Inflow = 7.11 cfs @ 0.17 hrs, Volume= 0.103 af
 Outflow = 7.11 cfs @ 0.17 hrs, Volume= 0.103 af, Atten= 0%, Lag= 0.0 min
 Primary = 7.11 cfs @ 0.17 hrs, Volume= 0.103 af
 Routed to Reach R31 : Pipe I31 to I21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 749.09' @ 0.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	747.75'	18.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	747.75'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	747.75'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=5.90 cfs @ 0.17 hrs HW=749.06' TW=748.97' (Dynamic Tailwater)

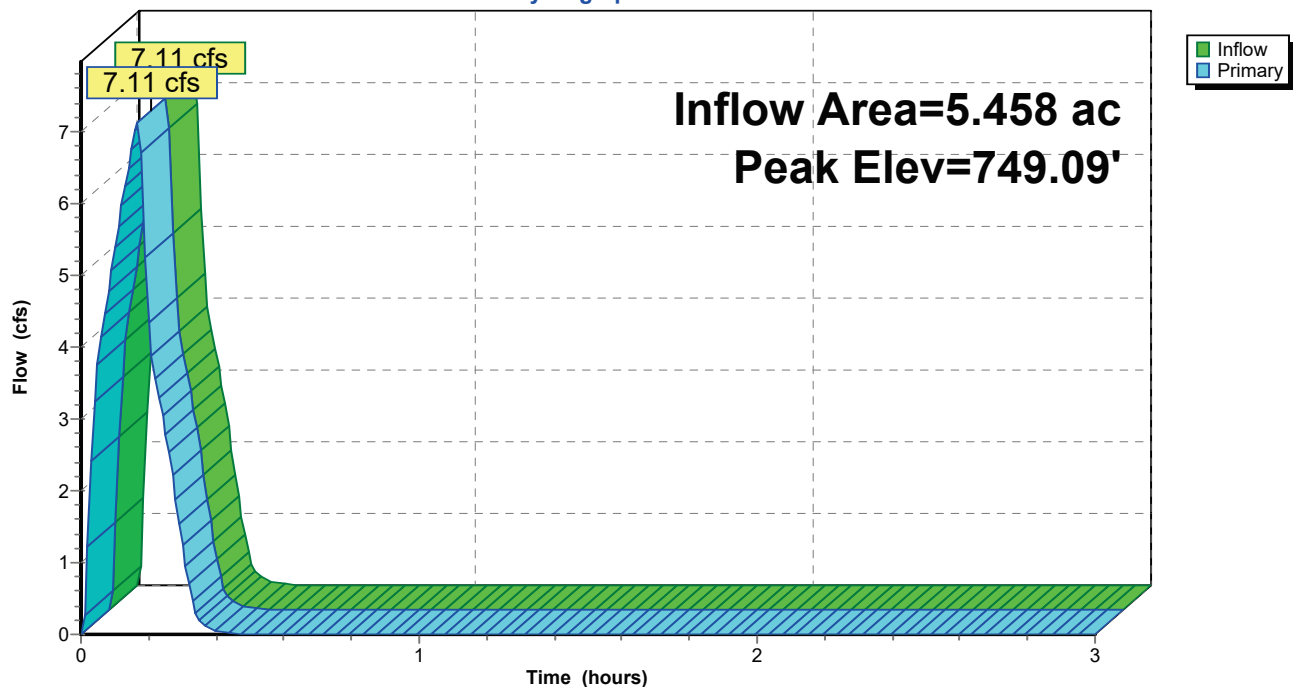
1=Orifice/Grate (Orifice Controls 2.36 cfs @ 1.44 fps)

2=Orifice/Grate (Orifice Controls 1.77 cfs @ 1.44 fps)

3=Orifice/Grate (Orifice Controls 1.77 cfs @ 1.44 fps)

Pond I31: Manhole 3-1

Hydrograph



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Pond I41: Inlet 4-1

[57] Hint: Peaked at 750.44' (Flood elevation advised)

Inflow Area = 0.503 ac, 100.00% Impervious, Inflow Depth = 0.94" for 10-yr event
 Inflow = 2.88 cfs @ 0.03 hrs, Volume= 0.040 af
 Outflow = 2.88 cfs @ 0.03 hrs, Volume= 0.040 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.88 cfs @ 0.03 hrs, Volume= 0.040 af
 Routed to Reach R41 : Pipe I41 to I31

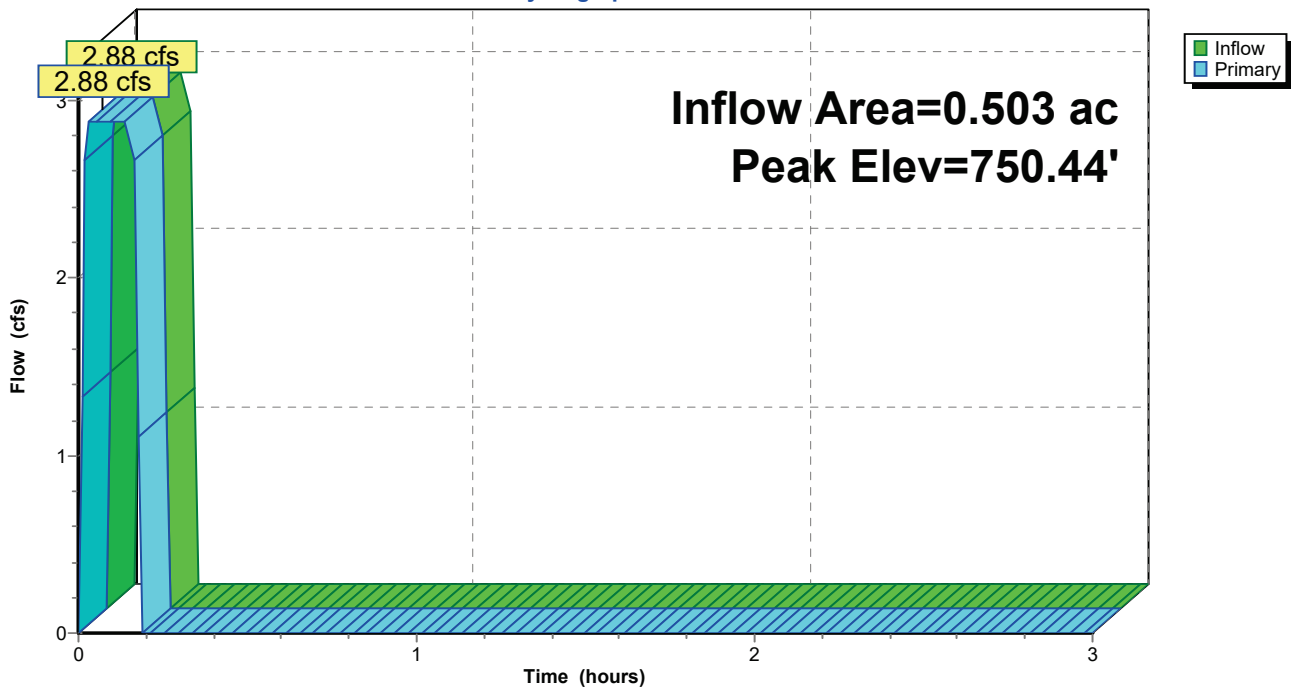
Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 750.44' @ 0.08 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	748.86'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=2.72 cfs @ 0.03 hrs HW=749.94' TW=749.42' (Dynamic Tailwater)
 ↑ **1=Orifice/Grate** (Orifice Controls 2.72 cfs @ 3.46 fps)

Pond I41: Inlet 4-1

Hydrograph



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Pond I51: Inlet 5-1

[57] Hint: Peaked at 749.82' (Flood elevation advised)

[62] Hint: Exceeded Reach R52 OUTLET depth by 0.29' @ 0.04 hrs

Inflow Area = 2.540 ac, 1.02% Impervious, Inflow Depth = 0.21" for 10-yr event
 Inflow = 2.98 cfs @ 0.16 hrs, Volume= 0.044 af
 Outflow = 2.98 cfs @ 0.16 hrs, Volume= 0.044 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.98 cfs @ 0.16 hrs, Volume= 0.044 af
 Routed to Reach R51 : Pipe I51 to I31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 749.82' @ 0.16 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	749.07'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	749.10'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

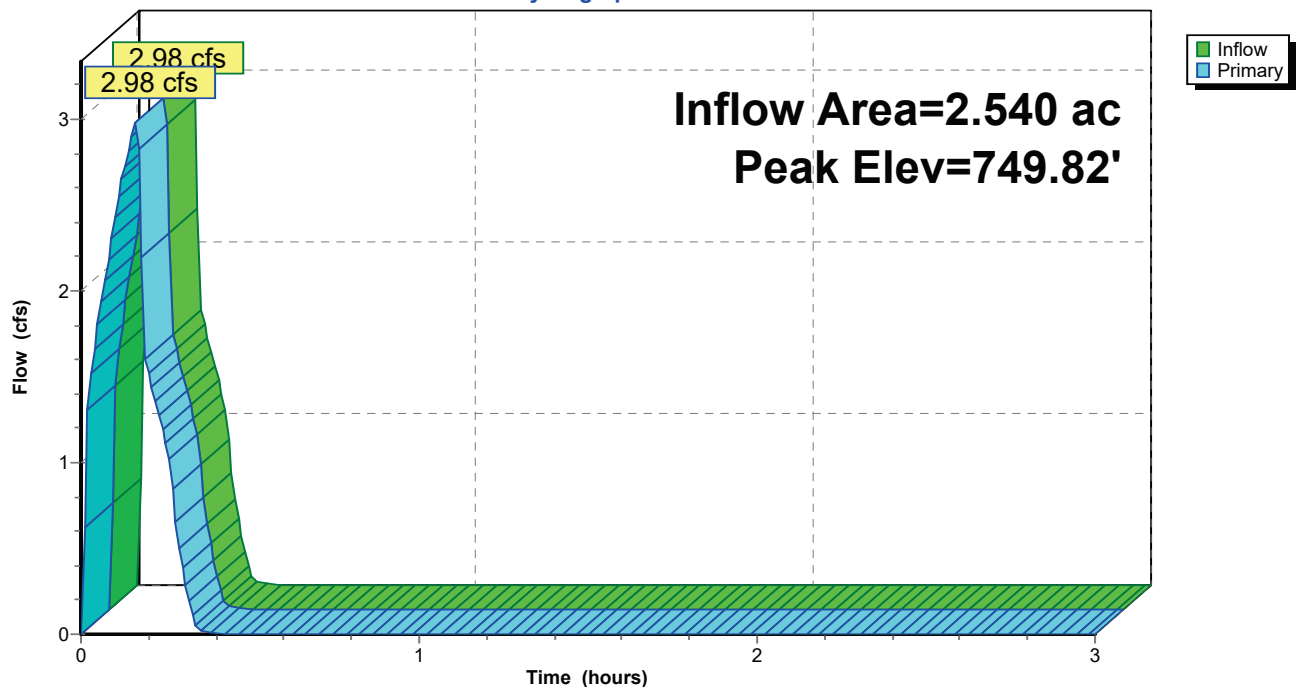
Primary OutFlow Max=2.90 cfs @ 0.16 hrs HW=749.82' TW=749.62' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 1.62 cfs @ 2.12 fps)

2=Orifice/Grate (Orifice Controls 1.28 cfs @ 2.12 fps)

Pond I51: Inlet 5-1

Hydrograph



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Pond I52: Inlet 5-2

[57] Hint: Peaked at 750.79' (Flood elevation advised)

[62] Hint: Exceeded Reach R53 OUTLET depth by 0.07' @ 0.28 hrs

Inflow Area = 2.186 ac, 0.27% Impervious, Inflow Depth = 0.14" for 10-yr event
 Inflow = 1.73 cfs @ 0.17 hrs, Volume= 0.026 af
 Outflow = 1.73 cfs @ 0.17 hrs, Volume= 0.026 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.73 cfs @ 0.17 hrs, Volume= 0.026 af
 Routed to Reach R52 : Pipe I52 to I51

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 750.79' @ 0.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	750.10'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	750.26'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

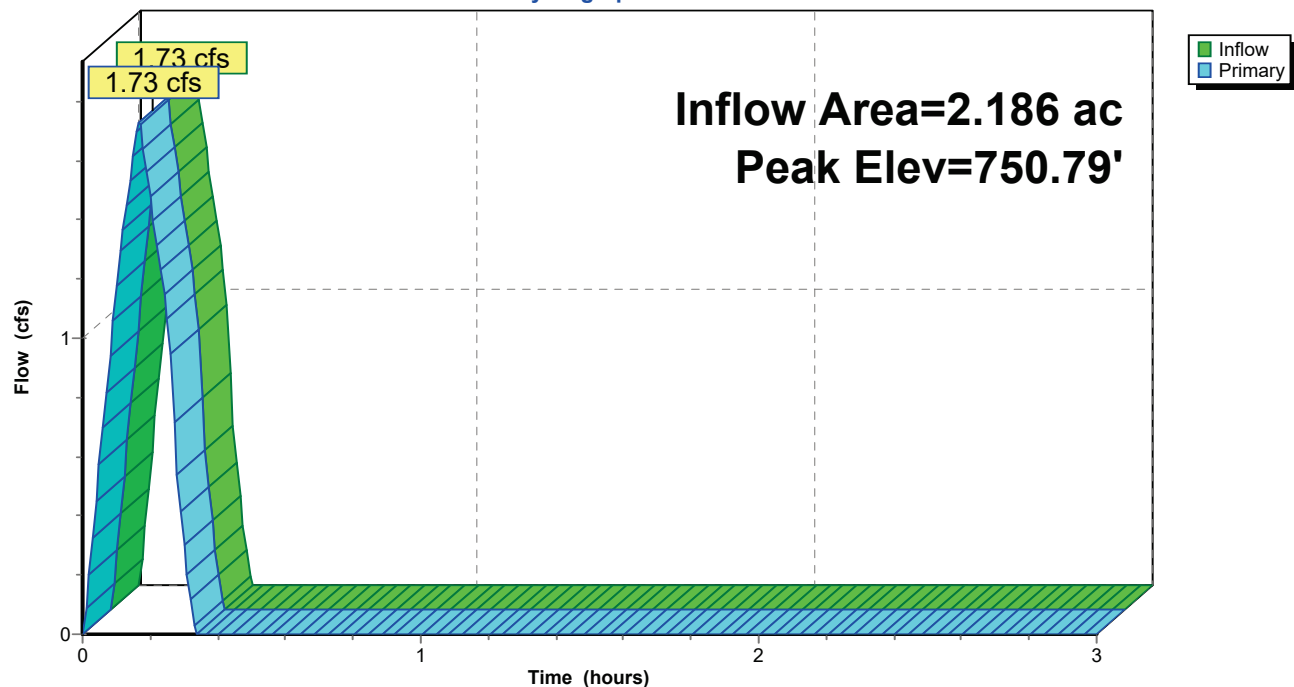
Primary OutFlow Max=1.68 cfs @ 0.17 hrs HW=750.79' TW=750.58' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 1.25 cfs @ 2.18 fps)

2=Orifice/Grate (Orifice Controls 0.43 cfs @ 2.18 fps)

Pond I52: Inlet 5-2

Hydrograph



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Pond I53: Inlet 5-3

[57] Hint: Peaked at 751.00' (Flood elevation advised)

Inflow Area = 0.156 ac, 0.00% Impervious, Inflow Depth = 0.53" for 10-yr event
 Inflow = 0.50 cfs @ 0.13 hrs, Volume= 0.007 af
 Outflow = 0.50 cfs @ 0.13 hrs, Volume= 0.007 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.50 cfs @ 0.13 hrs, Volume= 0.007 af
 Routed to Reach R53 : Pipe I53 to I52

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 751.00' @ 0.13 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	750.43'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	750.56'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

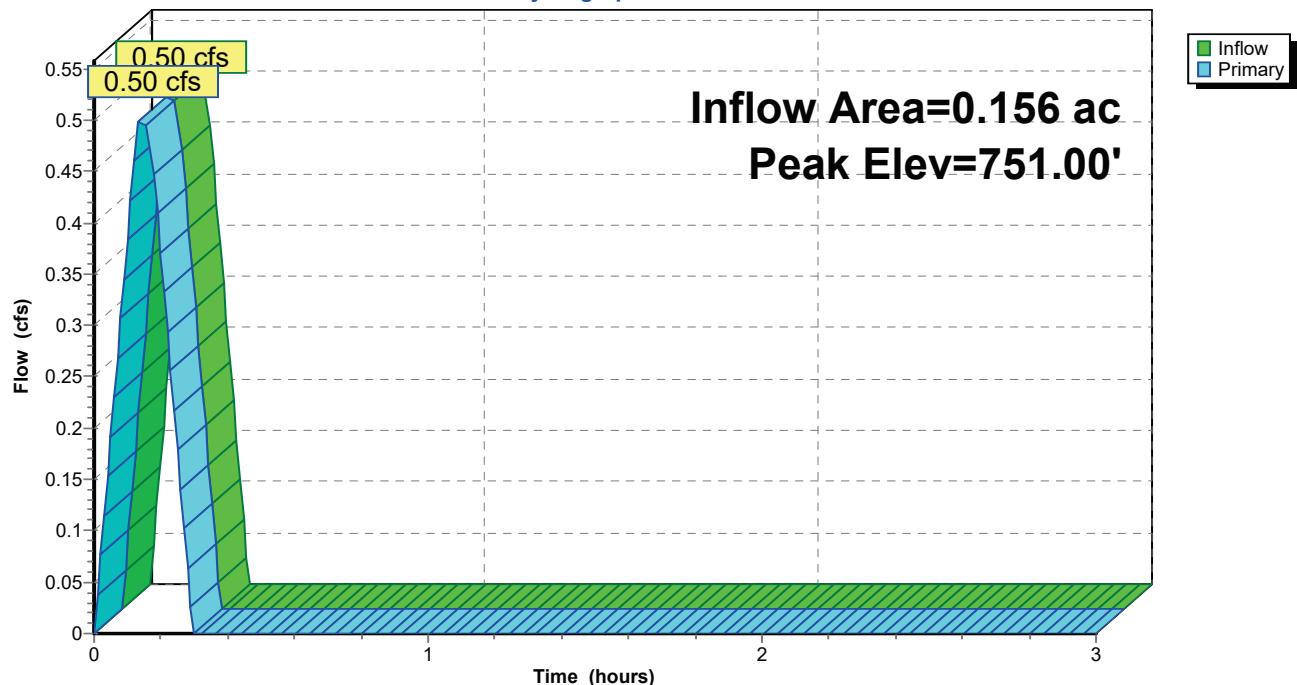
Primary OutFlow Max=0.50 cfs @ 0.13 hrs HW=751.00' TW=750.93' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 0.26 cfs @ 1.31 fps)

2=Orifice/Grate (Orifice Controls 0.24 cfs @ 1.31 fps)

Pond I53: Inlet 5-3

Hydrograph



340656 - Rantoul Transfer Station - Propd *L-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr*
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Summary for Pond I54: Inlet 5-4

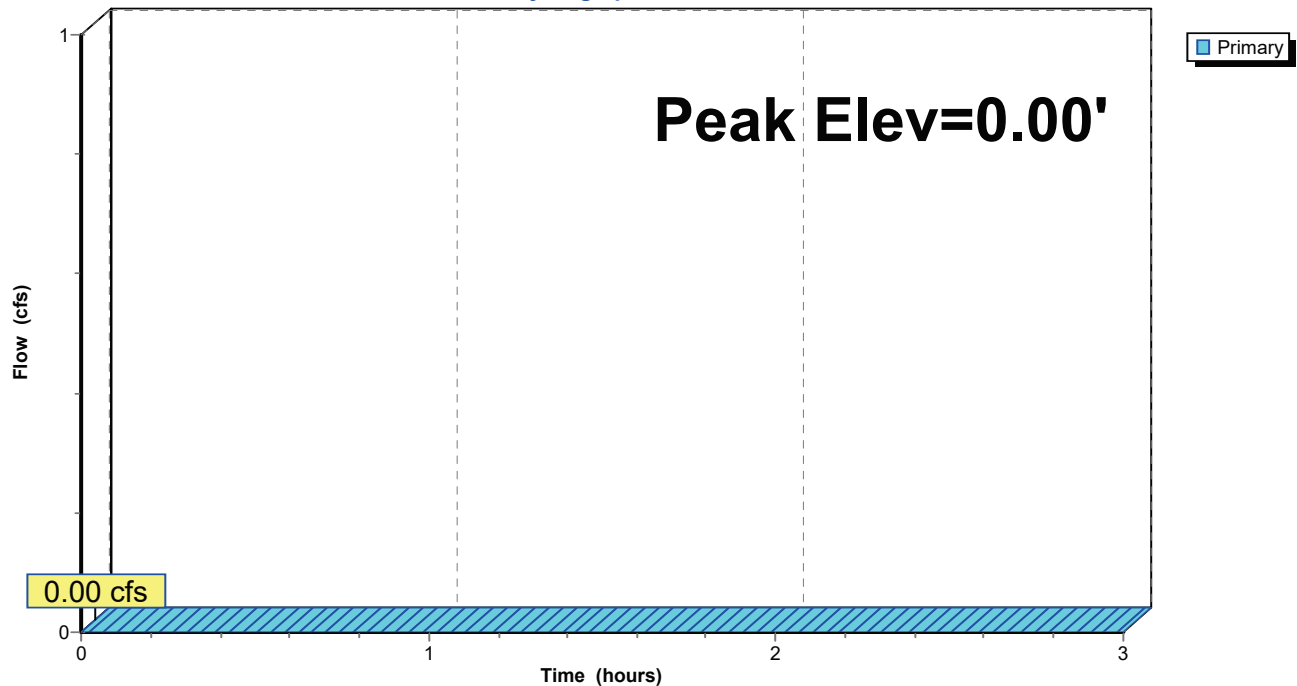
[43] Hint: Has no inflow (Outflow=Zero)

Device	Routing	Invert	Outlet Devices
#1	Primary	750.30'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' TW=750.30' (Dynamic Tailwater)
 ↳ **1=Orifice/Grate** (Controls 0.00 cfs)

Pond I54: Inlet 5-4

Hydrograph



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Pond I61: Manhole 6-1

[57] Hint: Peaked at 749.33' (Flood elevation advised)

[62] Hint: Exceeded Reach R62 OUTLET depth by 0.19' @ 0.20 hrs

Inflow Area = 2.408 ac, 0.00% Impervious, Inflow Depth = 0.20" for 10-yr event
 Inflow = 2.74 cfs @ 0.16 hrs, Volume= 0.039 af
 Outflow = 2.74 cfs @ 0.16 hrs, Volume= 0.039 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.74 cfs @ 0.16 hrs, Volume= 0.039 af
 Routed to Reach R61 : Pipe I61 to I31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 749.33' @ 0.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	748.55'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	748.61'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

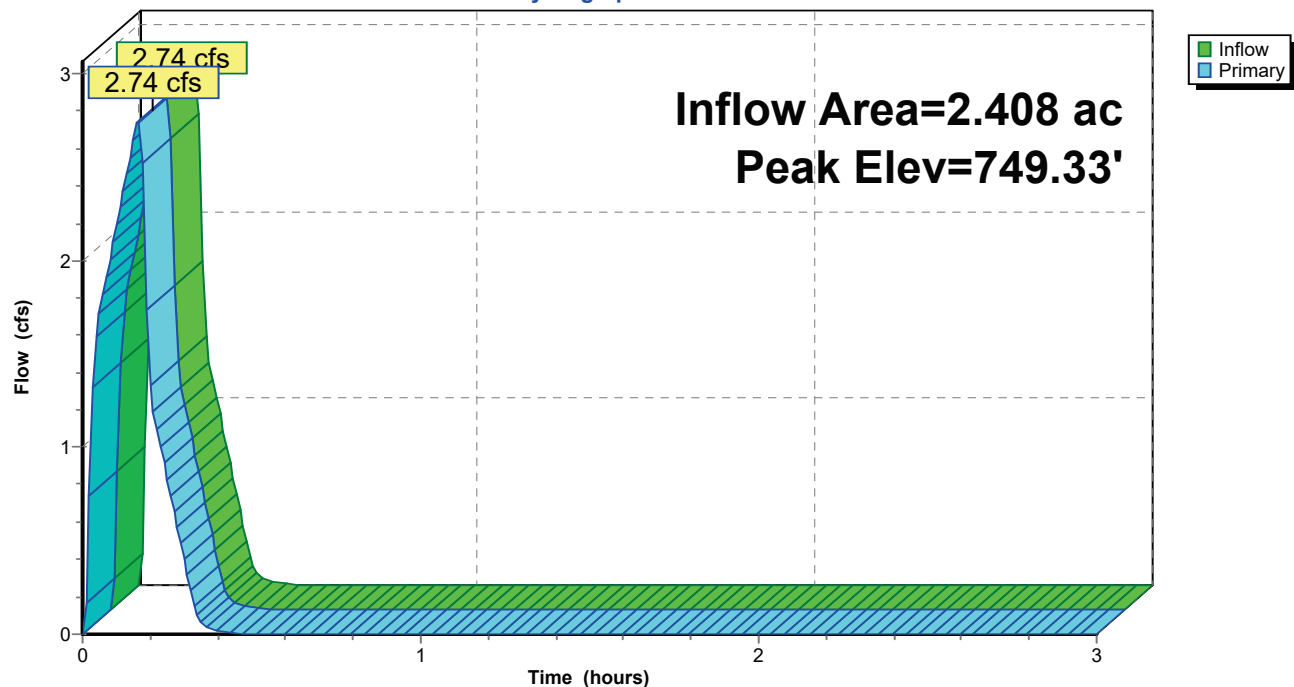
Primary OutFlow Max=2.64 cfs @ 0.16 hrs HW=749.33' TW=749.17' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 1.51 cfs @ 1.88 fps)

2=Orifice/Grate (Orifice Controls 1.13 cfs @ 1.88 fps)

Pond I61: Manhole 6-1

Hydrograph



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Pond I62: Inlet 6-2

[57] Hint: Peaked at 750.08' (Flood elevation advised)

[62] Hint: Exceeded Reach R63 OUTLET depth by 0.40' @ 0.05 hrs

Inflow Area = 1.749 ac, 0.00% Impervious, Inflow Depth = 0.21" for 10-yr event
 Inflow = 2.19 cfs @ 0.16 hrs, Volume= 0.031 af
 Outflow = 2.19 cfs @ 0.16 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.19 cfs @ 0.16 hrs, Volume= 0.031 af
 Routed to Reach R62 : Pipe I62 to I61

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 750.08' @ 0.16 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	749.32'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	749.35'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

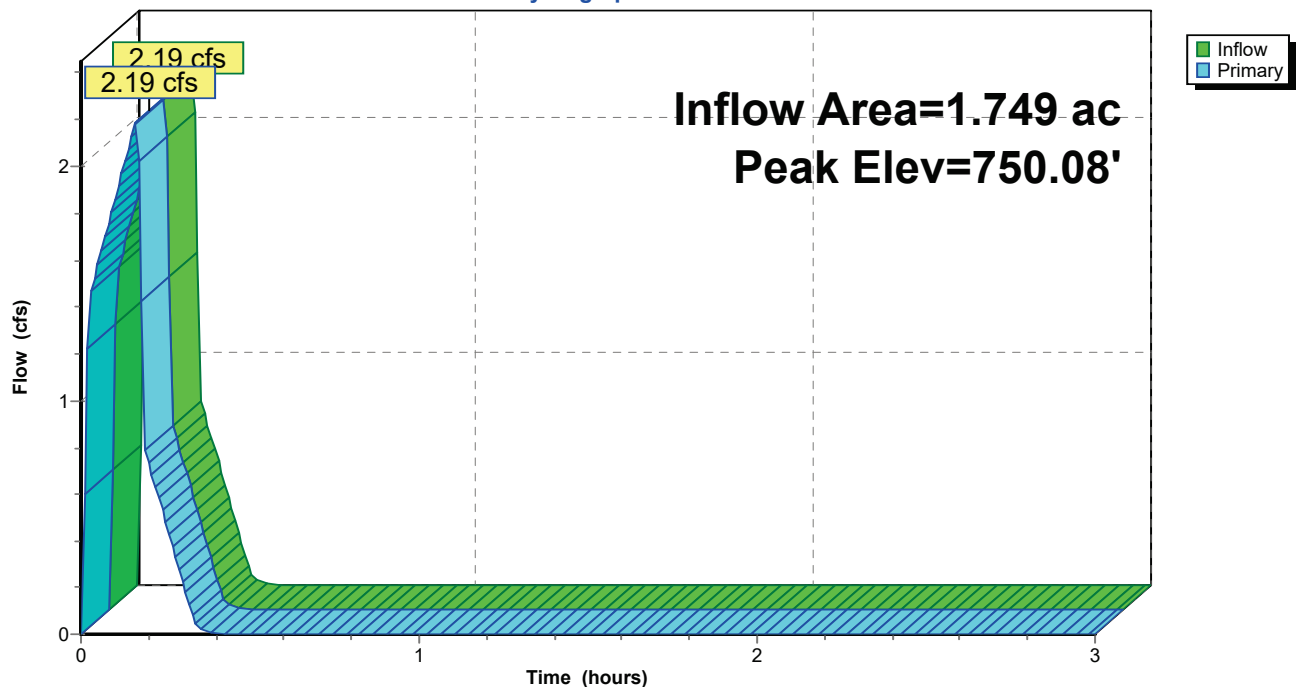
Primary OutFlow Max=2.08 cfs @ 0.16 hrs HW=750.07' TW=749.95' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 1.06 cfs @ 1.67 fps)

2=Orifice/Grate (Orifice Controls 1.02 cfs @ 1.67 fps)

Pond I62: Inlet 6-2

Hydrograph



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Pond I63: Inlet 6-3

[57] Hint: Peaked at 750.45' (Flood elevation advised)

[63] Warning: Exceeded Reach R54 INLET depth by 0.15' @ 0.17 hrs

Inflow Area = 1.364 ac, 0.00% Impervious, Inflow Depth = 0.11" for 10-yr event
 Inflow = 0.85 cfs @ 0.17 hrs, Volume= 0.012 af
 Outflow = 0.85 cfs @ 0.17 hrs, Volume= 0.012 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.85 cfs @ 0.17 hrs, Volume= 0.012 af
 Routed to Reach R63 : Pipe I63 to I62

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 750.45' @ 0.17 hrs

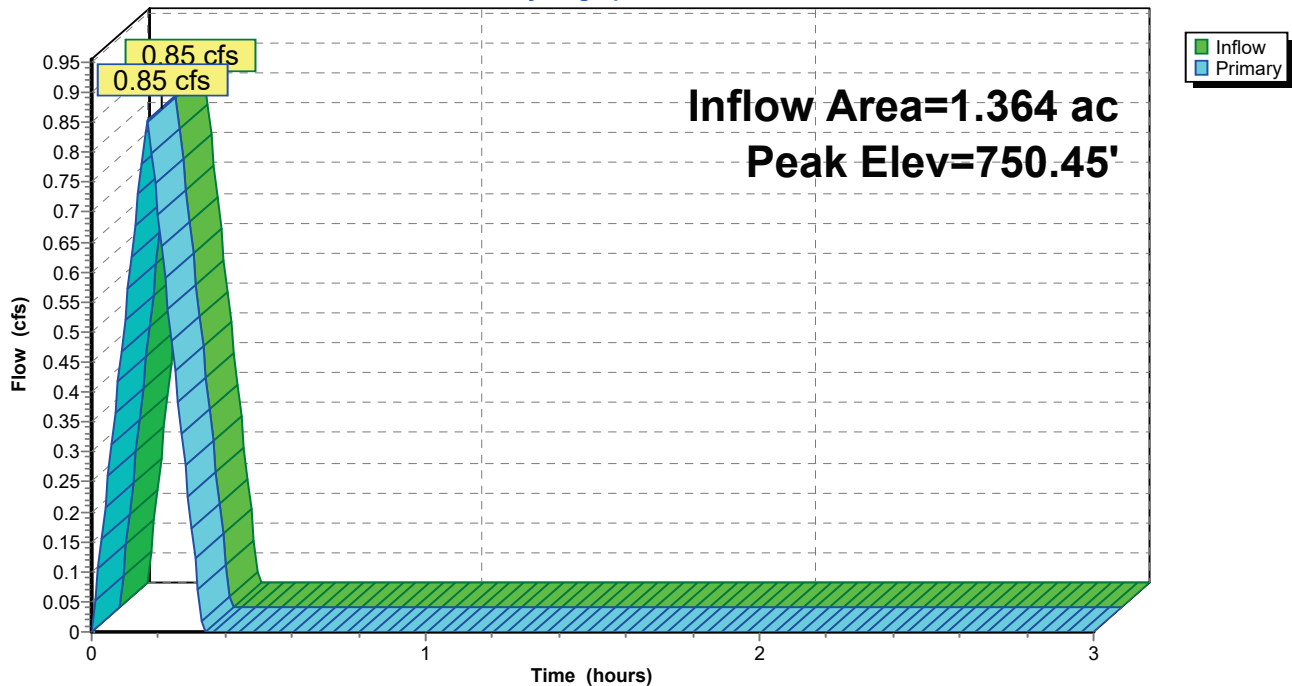
Device	Routing	Invert	Outlet Devices
#1	Primary	749.91'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.82 cfs @ 0.17 hrs HW=750.45' TW=750.29' (Dynamic Tailwater)

↑1=Orifice/Grate (Orifice Controls 0.82 cfs @ 1.90 fps)

Pond I63: Inlet 6-3

Hydrograph



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Pond I71: Inlet 7-1

[57] Hint: Peaked at 749.48' (Flood elevation advised)

[63] Warning: Exceeded Reach R81 INLET depth by 0.23' @ 0.17 hrs

[62] Hint: Exceeded Reach R91 OUTLET depth by 0.02' @ 0.16 hrs

Inflow Area = 2.152 ac, 49.07% Impervious, Inflow Depth = 0.59" for 10-yr event
 Inflow = 7.48 cfs @ 0.17 hrs, Volume= 0.107 af
 Outflow = 7.48 cfs @ 0.17 hrs, Volume= 0.107 af, Atten= 0%, Lag= 0.0 min
 Primary = 7.48 cfs @ 0.17 hrs, Volume= 0.107 af
 Routed to Reach R71 : Pipe I71 to I15

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 749.48' @ 0.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	747.78'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	747.78'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	748.93'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=7.40 cfs @ 0.17 hrs HW=749.47' TW=748.78' (Dynamic Tailwater)

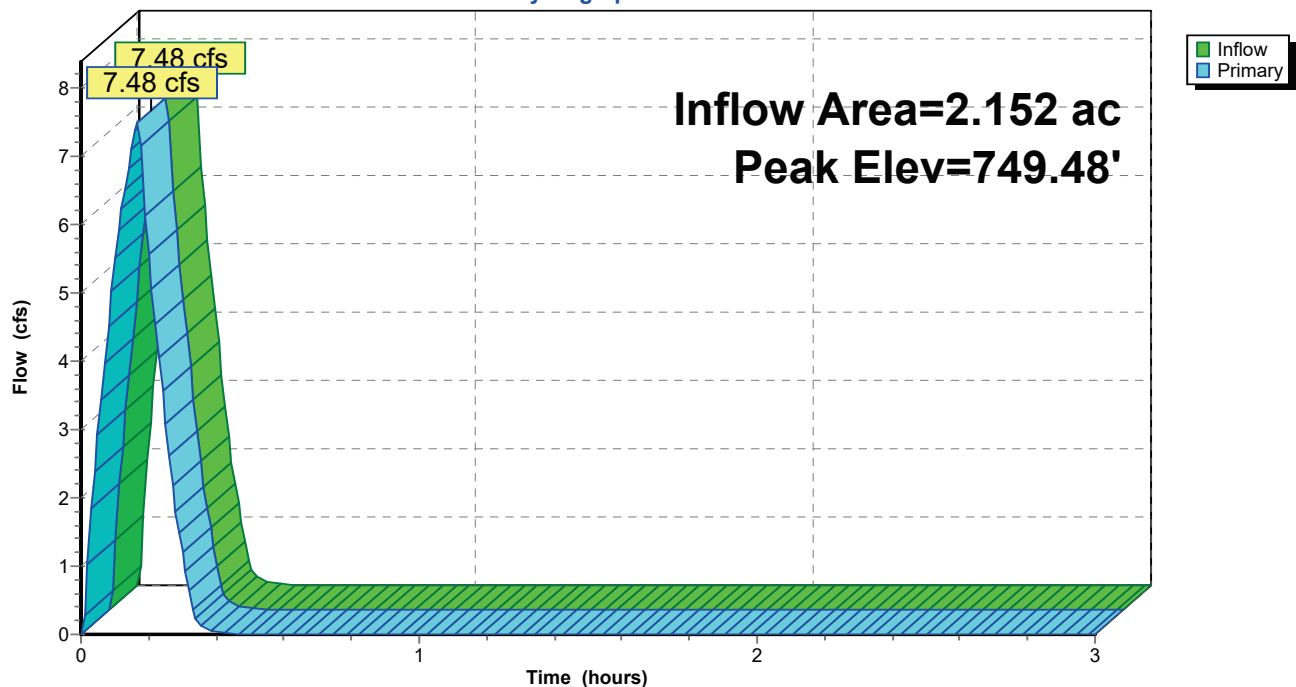
1=Orifice/Grate (Orifice Controls 3.15 cfs @ 4.01 fps)

2=Orifice/Grate (Orifice Controls 3.15 cfs @ 4.01 fps)

3=Orifice/Grate (Orifice Controls 1.10 cfs @ 2.51 fps)

Pond I71: Inlet 7-1

Hydrograph



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Pond I81: Inlet 8-1

[57] Hint: Peaked at 749.39' (Flood elevation advised)

[62] Hint: Exceeded Reach R13 OUTLET depth by 0.46' @ 0.19 hrs

[62] Hint: Exceeded Reach R82 OUTLET depth by 0.22' @ 0.13 hrs

Inflow Area = 0.792 ac, 48.74% Impervious, Inflow Depth = 0.63" for 10-yr event
 Inflow = 3.05 cfs @ 0.11 hrs, Volume= 0.042 af
 Outflow = 3.05 cfs @ 0.11 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.05 cfs @ 0.11 hrs, Volume= 0.042 af
 Routed to Reach R81 : Pipe I81 to I71

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 749.39' @ 0.13 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	748.66'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	748.69'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	748.70'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=2.86 cfs @ 0.11 hrs HW=749.37' TW=749.26' (Dynamic Tailwater)

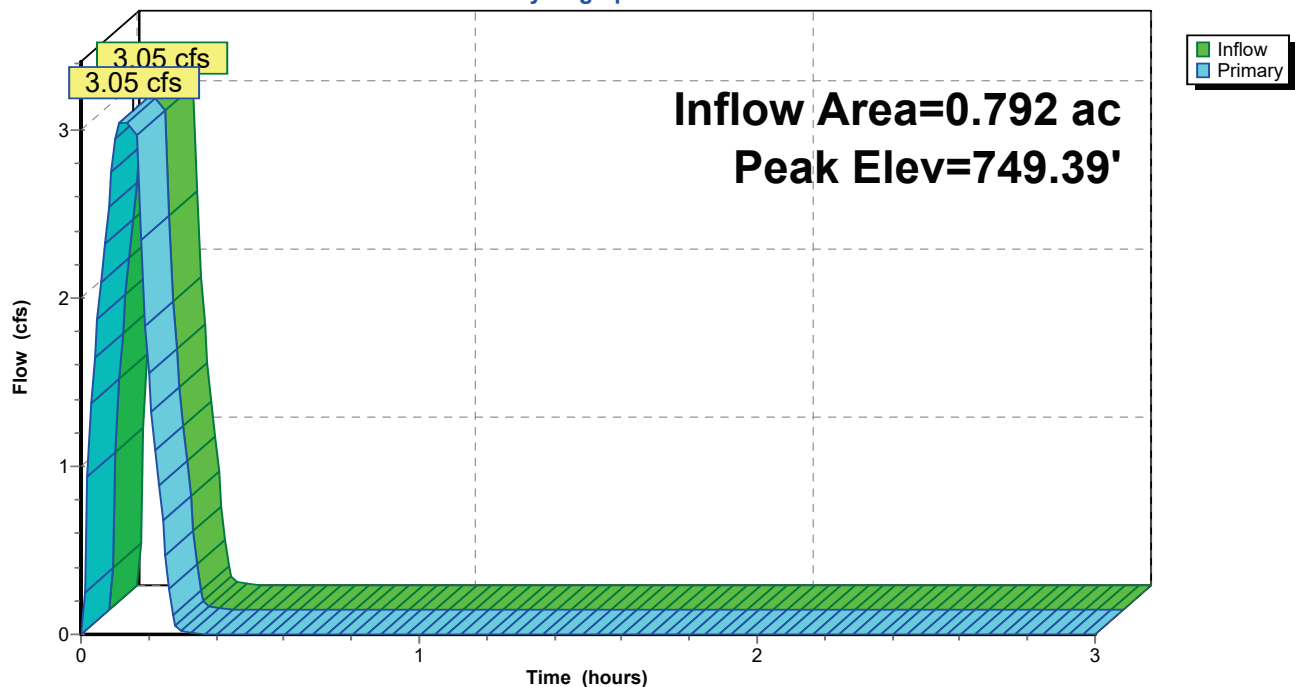
1=Orifice/Grate (Orifice Controls 0.99 cfs @ 1.65 fps)

2=Orifice/Grate (Orifice Controls 0.94 cfs @ 1.65 fps)

3=Orifice/Grate (Orifice Controls 0.93 cfs @ 1.65 fps)

Pond I81: Inlet 8-1

Hydrograph



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Pond I82: Inlet 8-2

[57] Hint: Peaked at 751.59' (Flood elevation advised)

Inflow Area = 0.625 ac, 35.68% Impervious, Inflow Depth = 0.56" for 10-yr event
 Inflow = 2.11 cfs @ 0.10 hrs, Volume= 0.029 af
 Outflow = 2.11 cfs @ 0.10 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.11 cfs @ 0.10 hrs, Volume= 0.029 af
 Routed to Reach R82 : Pipe I82 to I81

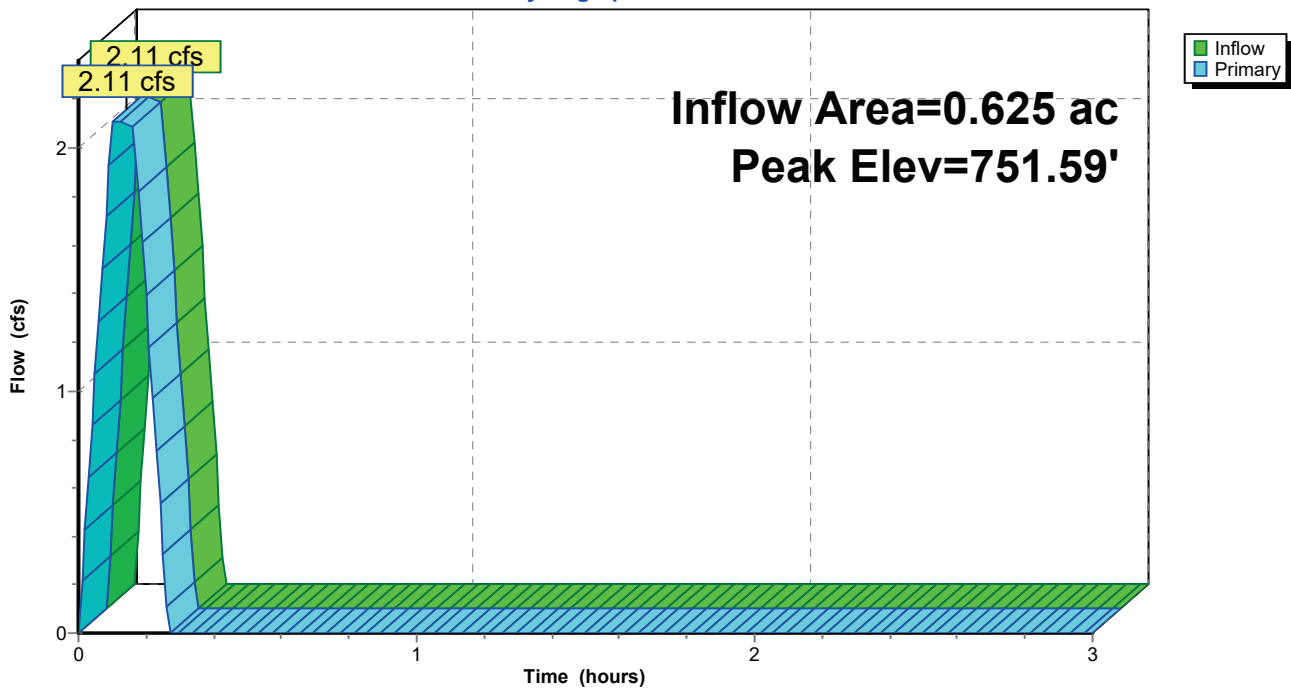
Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 751.59' @ 0.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	750.74'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=2.04 cfs @ 0.10 hrs HW=751.57' TW=751.20' (Dynamic Tailwater)↑ **1=Orifice/Grate** (Orifice Controls 2.04 cfs @ 2.93 fps)**Pond I82: Inlet 8-2**

Hydrograph



340656 - Rantoul Transfer Station - PropdL-Rantoul 10-yr Duration=10 min, Inten=5.98 in/hr

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Summary for Pond I91: Inlet 9-1

[57] Hint: Peaked at 750.96' (Flood elevation advised)

[62] Hint: Exceeded Reach R92 OUTLET depth by 0.20' @ 0.20 hrs

Inflow Area = 0.640 ac, 25.31% Impervious, Inflow Depth = 0.50" for 10-yr event
 Inflow = 1.88 cfs @ 0.17 hrs, Volume= 0.027 af
 Outflow = 1.88 cfs @ 0.17 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.88 cfs @ 0.17 hrs, Volume= 0.027 af
 Routed to Reach R91 : Pipe I91 to I71

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 750.96' @ 0.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	750.30'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	750.30'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

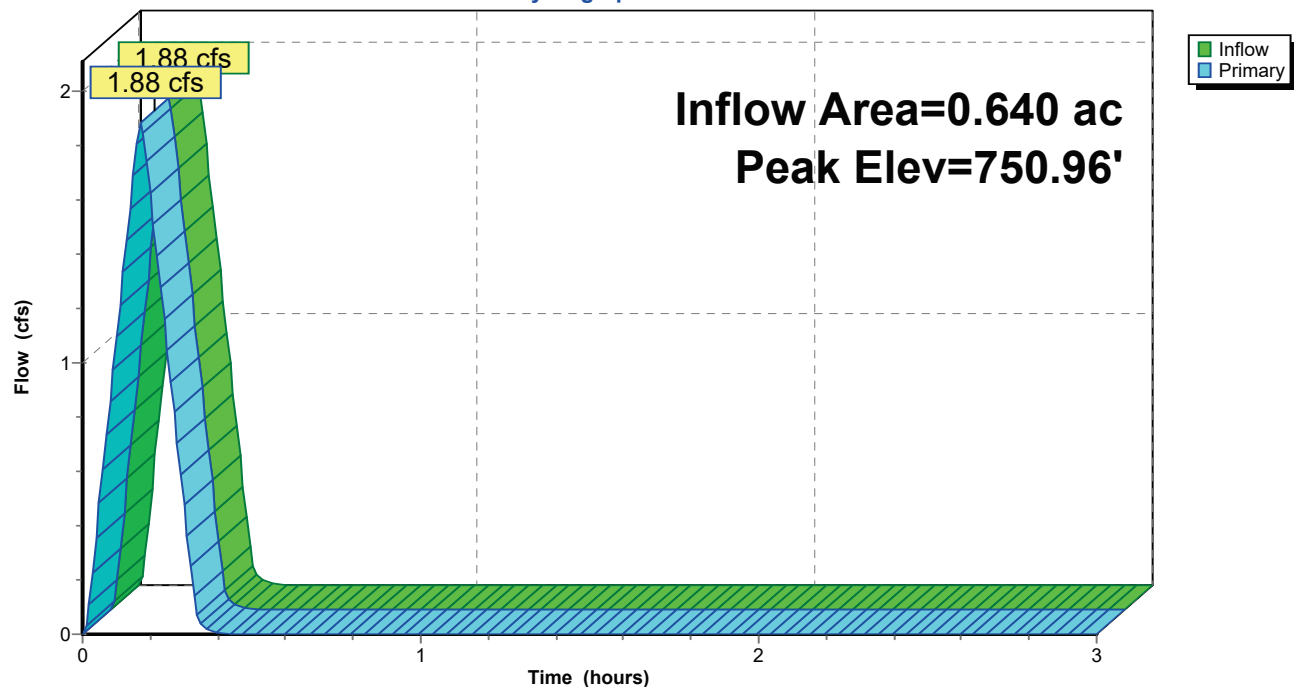
Primary OutFlow Max=1.74 cfs @ 0.17 hrs HW=750.95' TW=750.84' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 0.87 cfs @ 1.60 fps)

2=Orifice/Grate (Orifice Controls 0.87 cfs @ 1.60 fps)

Pond I91: Inlet 9-1

Hydrograph



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Summary for Pond I92: Inlet 9-2

[57] Hint: Peaked at 751.95' (Flood elevation advised)

Inflow Area = 0.531 ac, 21.66% Impervious, Inflow Depth = 0.49" for 10-yr event
 Inflow = 1.54 cfs @ 0.17 hrs, Volume= 0.022 af
 Outflow = 1.54 cfs @ 0.17 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.54 cfs @ 0.17 hrs, Volume= 0.022 af
 Routed to Reach R92 : Pipe I92 to I91

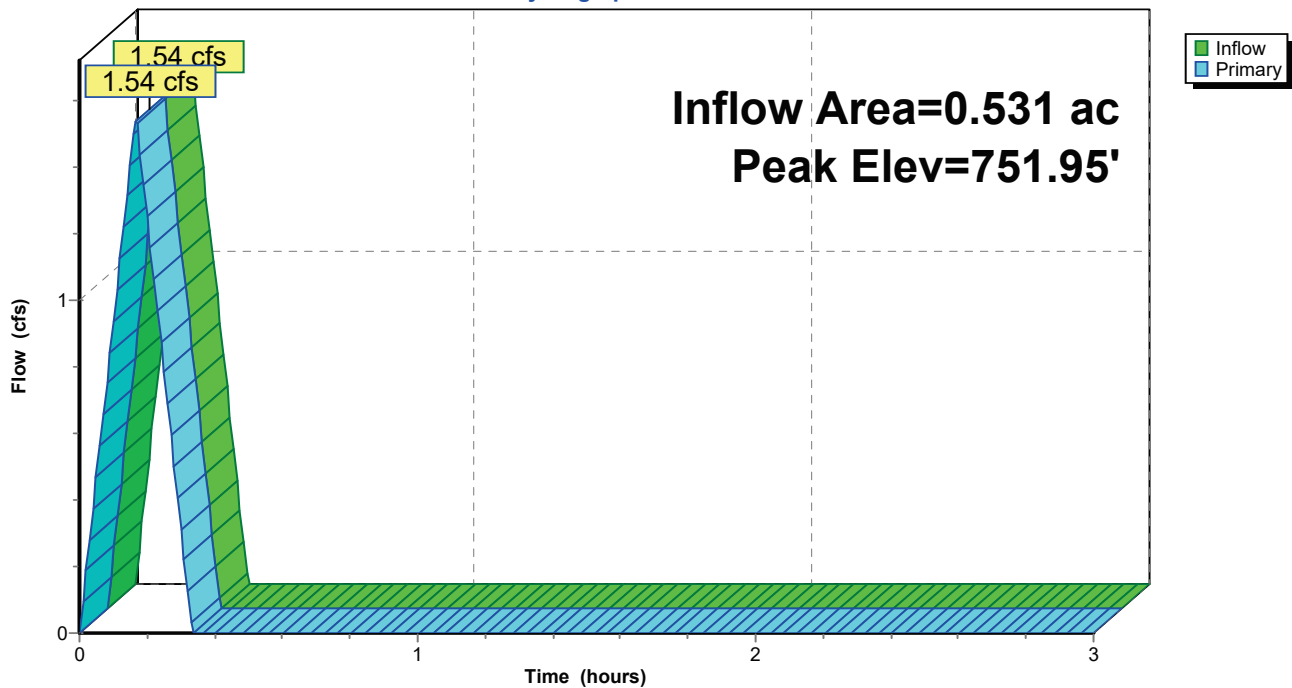
Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 751.95' @ 0.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	751.22'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.48 cfs @ 0.17 hrs HW=751.95' TW=751.70' (Dynamic Tailwater)
 ↑ **1=Orifice/Grate** (Orifice Controls 1.48 cfs @ 2.41 fps)

Pond I92: Inlet 9-2

Hydrograph



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Summary for Pond P1: Detention Pond

[44] Hint: Outlet device #1 is below defined storage

[62] Hint: Exceeded Reach R14 OUTLET depth by 0.16' @ 0.57 hrs

Inflow Area = 12.789 ac, 22.18% Impervious, Inflow Depth = 0.39" for 10-yr event
 Inflow = 23.90 cfs @ 0.16 hrs, Volume= 0.414 af
 Outflow = 2.03 cfs @ 0.41 hrs, Volume= 0.414 af, Atten= 92%, Lag= 14.6 min
 Primary = 2.03 cfs @ 0.41 hrs, Volume= 0.414 af
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 737.07' @ 0.41 hrs Surf.Area= 0.622 ac Storage= 0.350 af

Plug-Flow detention time= 71.9 min calculated for 0.412 af (100% of inflow)

Center-of-Mass det. time= 72.1 min (82.7 - 10.5)

Volume	Invert	Avail.Storage	Storage Description
#1	736.00'	3.653 af	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
736.00	0.024	0.000	0.000
737.00	0.592	0.308	0.308
738.00	1.025	0.809	1.117
739.00	1.170	1.097	2.214
739.50	1.276	0.611	2.825
740.14	1.310	0.828	3.653

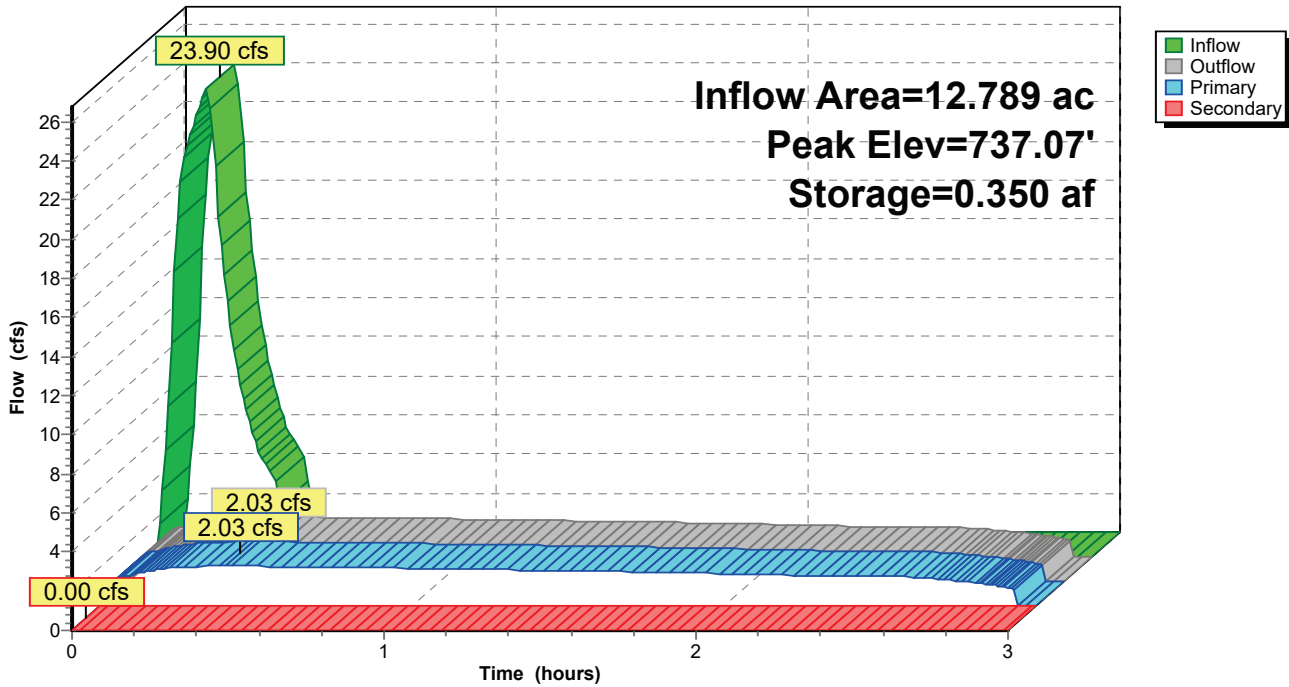
Device	Routing	Invert	Outlet Devices
#1	Primary	735.51'	8.0" Round Culvert L= 50.4' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 735.51' / 734.98' S= 0.0105 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 0.35 sf
#2	Secondary	739.50'	33.0' long x 8.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=2.03 cfs @ 0.41 hrs HW=737.07' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.03 cfs @ 5.82 fps)**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=736.00' (Free Discharge)↑**2=Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

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Pond P1: Detention Pond

Hydrograph



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Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)	Node Name
1	R13	750.17	748.69	149.2	0.0099	0.010	0.0	12.0	0.0	
2	R14	741.84	736.82	148.6	0.0338	0.012	0.0	24.0	0.0	
3	R15	744.87	743.36	147.0	0.0103	0.012	0.0	24.0	0.0	
4	R16	749.30	748.18	108.0	0.0104	0.012	0.0	12.0	0.0	
5	R17	745.50	744.50	20.0	0.0500	0.012	0.0	6.0	0.0	
6	R18	743.36	736.82	147.0	0.0445	0.012	0.0	24.0	0.0	
7	R19	745.41	743.36	46.0	0.0446	0.012	0.0	12.0	0.0	
8	R21	746.00	744.88	223.0	0.0050	0.012	0.0	24.0	0.0	
9	R31	747.75	747.18	154.3	0.0037	0.012	0.0	18.0	0.0	
10	R41	748.86	748.17	324.3	0.0021	0.010	0.0	12.0	0.0	
11	R51	749.07	747.75	123.9	0.0107	0.012	0.0	15.0	0.0	
12	R52	750.10	749.10	114.4	0.0087	0.012	0.0	12.0	0.0	
13	R53	750.43	750.26	62.2	0.0027	0.010	0.0	6.0	0.0	
14	R54	750.30	749.91	63.0	0.0062	0.010	0.0	6.0	0.0	
15	R61	748.55	747.75	133.8	0.0060	0.012	0.0	15.0	0.0	
16	R62	749.32	748.61	122.3	0.0058	0.012	0.0	12.0	0.0	
17	R63	749.91	749.35	117.3	0.0048	0.012	0.0	12.0	0.0	
18	R71	747.78	744.96	307.3	0.0092	0.012	0.0	12.0	0.0	
19	R81	748.66	747.78	63.2	0.0139	0.012	0.0	12.0	0.0	
20	R82	750.74	748.70	136.0	0.0150	0.012	0.0	12.0	0.0	
21	R91	750.30	748.93	206.5	0.0066	0.012	0.0	12.0	0.0	
22	R92	751.22	750.30	134.2	0.0069	0.012	0.0	12.0	0.0	
23	P1	735.51	734.98	50.4	0.0105	0.010	0.0	8.0	0.0	

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Time span=0.00-3.00 hrs, dt=0.01 hrs, 301 points
 Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

SubcatchmentCA10: South Scale Area	Runoff Area=0.371 ac 0.00% Impervious Runoff Depth=1.10" Flow Length=218' Tc=13.3 min C=0.30 Runoff=0.16 cfs 0.034 af
SubcatchmentCA11: North Scale Area	Runoff Area=0.625 ac 35.68% Impervious Runoff Depth=2.05" Flow Length=168' Tc=5.9 min C=0.56 Runoff=0.52 cfs 0.107 af
SubcatchmentCA12: Building Entrance	Runoff Area=0.720 ac 70.56% Impervious Runoff Depth=2.93" Flow Length=376' Tc=12.6 min C=0.80 Runoff=0.85 cfs 0.176 af
SubcatchmentCA13: South Building Area	Runoff Area=0.167 ac 97.60% Impervious Runoff Depth=3.40" Flow Length=85' Slope=0.0100 '/' Tc=0.7 min C=0.93 Runoff=0.23 cfs 0.047 af
SubcatchmentCA14: North Building Area	Runoff Area=0.503 ac 100.00% Impervious Runoff Depth=3.47" Flow Length=162' Slope=0.0100 '/' Tc=1.3 min C=0.95 Runoff=0.70 cfs 0.146 af
SubcatchmentCA15: West Building Area	Runoff Area=0.650 ac 7.23% Impervious Runoff Depth=1.28" Flow Length=175' Tc=13.3 min C=0.35 Runoff=0.34 cfs 0.069 af
SubcatchmentCA16: East Access Road	Runoff Area=0.109 ac 43.12% Impervious Runoff Depth=2.38" Flow Length=172' Tc=11.0 min C=0.65 Runoff=0.10 cfs 0.022 af
SubcatchmentCA17: East Building Area	Runoff Area=0.531 ac 21.66% Impervious Runoff Depth=2.30" Flow Length=221' Tc=12.9 min C=0.63 Runoff=0.49 cfs 0.102 af
SubcatchmentCA18: SE 1 Parking Area	Runoff Area=0.156 ac 0.00% Impervious Runoff Depth=1.94" Flow Length=146' Tc=7.8 min C=0.53 Runoff=0.12 cfs 0.025 af
SubcatchmentCA19: SE 2 Parking Area	Runoff Area=2.030 ac 0.30% Impervious Runoff Depth>1.63" Flow Length=694' Tc=40.1 min C=0.45 Runoff=1.35 cfs 0.276 af
SubcatchmentCA20: NE Parking Area	Runoff Area=1.364 ac 0.00% Impervious Runoff Depth>1.56" Flow Length=738' Tc=40.7 min C=0.43 Runoff=0.87 cfs 0.177 af
SubcatchmentCA21: N Central Parking Area	Runoff Area=0.385 ac 0.00% Impervious Runoff Depth=2.19" Flow Length=92' Slope=0.0121 '/' Tc=1.4 min C=0.60 Runoff=0.34 cfs 0.070 af
SubcatchmentCA22: S Central Parking Area	Runoff Area=0.354 ac 5.65% Impervious Runoff Depth=2.27" Flow Length=86' Slope=0.0137 '/' Tc=1.3 min C=0.62 Runoff=0.32 cfs 0.067 af
SubcatchmentCA23: NW Parking Area	Runoff Area=0.659 ac 0.00% Impervious Runoff Depth>1.72" Flow Length=203' Tc=30.5 min C=0.47 Runoff=0.46 cfs 0.094 af
SubcatchmentCA24: SW Parking Area	Runoff Area=0.510 ac 6.86% Impervious Runoff Depth=2.12" Flow Length=179' Tc=12.3 min C=0.58 Runoff=0.44 cfs 0.090 af
SubcatchmentCA6: Pond Catchment Area	Runoff Area=2.266 ac 13.02% Impervious Runoff Depth=1.43" Flow Length=218' Slope=0.0698 '/' Tc=2.0 min C=0.39 Runoff=1.30 cfs 0.269 af

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SubcatchmentCA7: NE Station Area	Runoff Area=0.750 ac 33.20% Impervious Runoff Depth=1.90" Flow Length=258' Tc=15.8 min C=0.52 Runoff=0.58 cfs 0.119 af
SubcatchmentCA8: East Station Area	Runoff Area=0.504 ac 97.62% Impervious Runoff Depth=3.40" Flow Length=219' Tc=3.9 min C=0.93 Runoff=0.69 cfs 0.143 af
SubcatchmentCA9: SE Station Area	Runoff Area=0.135 ac 98.52% Impervious Runoff Depth=3.44" Flow Length=117' Tc=3.1 min C=0.94 Runoff=0.19 cfs 0.039 af
Reach R13: Pipe CA13 to I81	Avg. Flow Depth=0.15' Max Vel=3.06 fps Inflow=0.23 cfs 0.047 af 12.0" Round Pipe n=0.010 L=149.2' S=0.0099 '/' Capacity=4.61 cfs Outflow=0.23 cfs 0.047 af
Reach R14: Pipe I14 to Pond	Avg. Flow Depth=0.58' Max Vel=10.89 fps Inflow=8.17 cfs 1.679 af 24.0" Round Pipe n=0.012 L=148.6' S=0.0338 '/' Capacity=45.04 cfs Outflow=8.17 cfs 1.678 af
Reach R15: Pipe I15 to I18	Avg. Flow Depth=0.78' Max Vel=7.04 fps Inflow=7.98 cfs 1.641 af 24.0" Round Pipe n=0.012 L=147.0' S=0.0103 '/' Capacity=24.84 cfs Outflow=7.98 cfs 1.641 af
Reach R16: Pipe I16 to I21	Avg. Flow Depth=0.28' Max Vel=3.77 fps Inflow=0.69 cfs 0.143 af 12.0" Round Pipe n=0.012 L=108.0' S=0.0104 '/' Capacity=3.93 cfs Outflow=0.69 cfs 0.143 af
Reach R17: Pipe I17 to Pond	Avg. Flow Depth=0.23' Max Vel=6.64 fps Inflow=0.58 cfs 0.119 af 6.0" Round Pipe n=0.012 L=20.0' S=0.0500 '/' Capacity=1.36 cfs Outflow=0.58 cfs 0.119 af
Reach R18: Pipe I18 to I14	Avg. Flow Depth=0.54' Max Vel=12.01 fps Inflow=8.17 cfs 1.679 af 24.0" Round Pipe n=0.012 L=147.0' S=0.0445 '/' Capacity=51.69 cfs Outflow=8.17 cfs 1.679 af
Reach R19: Pipe I19 to I14	Avg. Flow Depth=0.10' Max Vel=4.30 fps Inflow=0.19 cfs 0.039 af 12.0" Round Pipe n=0.012 L=46.0' S=0.0446 '/' Capacity=8.15 cfs Outflow=0.19 cfs 0.039 af
Reach R21: Pipe I21 to I15	Avg. Flow Depth=0.78' Max Vel=4.93 fps Inflow=5.62 cfs 1.156 af 24.0" Round Pipe n=0.012 L=223.0' S=0.0050 '/' Capacity=17.37 cfs Outflow=5.62 cfs 1.154 af
Reach R31: Pipe I31 to I21	Avg. Flow Depth=0.81' Max Vel=4.03 fps Inflow=3.89 cfs 0.799 af 18.0" Round Pipe n=0.012 L=154.3' S=0.0037 '/' Capacity=6.92 cfs Outflow=3.89 cfs 0.798 af
Reach R41: Pipe I41 to I31	Avg. Flow Depth=0.40' Max Vel=2.44 fps Inflow=0.70 cfs 0.146 af 12.0" Round Pipe n=0.010 L=324.3' S=0.0021 '/' Capacity=2.14 cfs Outflow=0.70 cfs 0.146 af
Reach R51: Pipe I51 to I31	Avg. Flow Depth=0.42' Max Vel=4.88 fps Inflow=1.79 cfs 0.368 af 15.0" Round Pipe n=0.012 L=123.9' S=0.0107 '/' Capacity=7.22 cfs Outflow=1.79 cfs 0.368 af
Reach R52: Pipe I52 to I51	Avg. Flow Depth=0.44' Max Vel=4.36 fps Inflow=1.47 cfs 0.301 af 12.0" Round Pipe n=0.012 L=114.4' S=0.0087 '/' Capacity=3.61 cfs Outflow=1.47 cfs 0.301 af
Reach R53: Pipe I53 to I52	Avg. Flow Depth=0.19' Max Vel=1.73 fps Inflow=0.12 cfs 0.025 af 6.0" Round Pipe n=0.010 L=62.2' S=0.0027 '/' Capacity=0.38 cfs Outflow=0.12 cfs 0.025 af
Reach R54: Pipe I54 to I63	Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0.000 af 6.0" Round Pipe n=0.010 L=63.0' S=0.0062 '/' Capacity=0.57 cfs Outflow=0.00 cfs 0.000 af

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Reach R61: Pipe I61 to I31	Avg. Flow Depth=0.48' Max Vel=3.88 fps Inflow=1.66 cfs 0.341 af
15.0" Round Pipe n=0.012 L=133.8' S=0.0060 '/' Capacity=5.41 cfs Outflow=1.66 cfs 0.341 af	
Reach R62: Pipe I62 to I61	Avg. Flow Depth=0.45' Max Vel=3.56 fps Inflow=1.21 cfs 0.247 af
12.0" Round Pipe n=0.012 L=122.3' S=0.0058 '/' Capacity=2.94 cfs Outflow=1.21 cfs 0.247 af	
Reach R63: Pipe I63 to I62	Avg. Flow Depth=0.39' Max Vel=3.03 fps Inflow=0.87 cfs 0.177 af
12.0" Round Pipe n=0.012 L=117.3' S=0.0048 '/' Capacity=2.67 cfs Outflow=0.87 cfs 0.177 af	
Reach R71: Pipe I71 to I15	Avg. Flow Depth=0.55' Max Vel=4.91 fps Inflow=2.19 cfs 0.453 af
12.0" Round Pipe n=0.012 L=307.3' S=0.0092 '/' Capacity=3.70 cfs Outflow=2.19 cfs 0.453 af	
Reach R81: Pipe I81 to I71	Avg. Flow Depth=0.27' Max Vel=4.28 fps Inflow=0.75 cfs 0.154 af
12.0" Round Pipe n=0.012 L=63.2' S=0.0139 '/' Capacity=4.55 cfs Outflow=0.75 cfs 0.154 af	
Reach R82: Pipe I82 to I81	Avg. Flow Depth=0.22' Max Vel=3.95 fps Inflow=0.52 cfs 0.107 af
12.0" Round Pipe n=0.012 L=136.0' S=0.0150 '/' Capacity=4.73 cfs Outflow=0.52 cfs 0.107 af	
Reach R91: Pipe I91 to I71	Avg. Flow Depth=0.30' Max Vel=3.08 fps Inflow=0.60 cfs 0.124 af
12.0" Round Pipe n=0.012 L=206.5' S=0.0066 '/' Capacity=3.14 cfs Outflow=0.60 cfs 0.124 af	
Reach R92: Pipe I92 to I91	Avg. Flow Depth=0.27' Max Vel=2.95 fps Inflow=0.49 cfs 0.102 af
12.0" Round Pipe n=0.012 L=134.2' S=0.0069 '/' Capacity=3.20 cfs Outflow=0.49 cfs 0.102 af	
Pond I14: Inlet 1-4	Peak Elev=742.77' Inflow=8.17 cfs 1.679 af Outflow=8.17 cfs 1.679 af
Pond I15: Inlet 1-5	Peak Elev=745.86' Inflow=7.98 cfs 1.641 af Outflow=7.98 cfs 1.641 af
Pond I16: Inlet 1-6	Peak Elev=749.75' Inflow=0.69 cfs 0.143 af Outflow=0.69 cfs 0.143 af
Pond I17: Trench Drain 1-7	Peak Elev=746.12' Inflow=0.58 cfs 0.119 af Outflow=0.58 cfs 0.119 af
Pond I18: Catch Basin 1-8	Peak Elev=744.27' Inflow=8.17 cfs 1.679 af Outflow=8.17 cfs 1.679 af
Pond I19: Inlet 1-9	Peak Elev=745.62' Inflow=0.19 cfs 0.039 af Outflow=0.19 cfs 0.039 af
Pond I21: Inlet 2-1	Peak Elev=748.13' Inflow=5.62 cfs 1.156 af Outflow=5.62 cfs 1.156 af
Pond I31: Manhole 3-1	Peak Elev=748.63' Inflow=3.89 cfs 0.799 af Outflow=3.89 cfs 0.799 af
Pond I41: Inlet 4-1	Peak Elev=749.38' Inflow=0.70 cfs 0.146 af Outflow=0.70 cfs 0.146 af

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Pond I51: Inlet 5-1	Peak Elev=749.64' Inflow=1.79 cfs 0.368 af Outflow=1.79 cfs 0.368 af
Pond I52: Inlet 5-2	Peak Elev=750.73' Inflow=1.47 cfs 0.301 af Outflow=1.47 cfs 0.301 af
Pond I53: Inlet 5-3	Peak Elev=750.67' Inflow=0.12 cfs 0.025 af Outflow=0.12 cfs 0.025 af
Pond I54: Inlet 5-4	Peak Elev=0.00' Primary=0.00 cfs 0.000 af
Pond I61: Manhole 6-1	Peak Elev=749.14' Inflow=1.66 cfs 0.341 af Outflow=1.66 cfs 0.341 af
Pond I62: Inlet 6-2	Peak Elev=749.86' Inflow=1.21 cfs 0.247 af Outflow=1.21 cfs 0.247 af
Pond I63: Inlet 6-3	Peak Elev=750.46' Inflow=0.87 cfs 0.177 af Outflow=0.87 cfs 0.177 af
Pond I71: Inlet 7-1	Peak Elev=748.48' Inflow=2.19 cfs 0.453 af Outflow=2.19 cfs 0.453 af
Pond I81: Inlet 8-1	Peak Elev=748.99' Inflow=0.75 cfs 0.154 af Outflow=0.75 cfs 0.154 af
Pond I82: Inlet 8-2	Peak Elev=751.12' Inflow=0.52 cfs 0.107 af Outflow=0.52 cfs 0.107 af
Pond I91: Inlet 9-1	Peak Elev=750.66' Inflow=0.60 cfs 0.124 af Outflow=0.60 cfs 0.124 af
Pond I92: Inlet 9-2	Peak Elev=751.61' Inflow=0.49 cfs 0.102 af Outflow=0.49 cfs 0.102 af
Pond P1: Detention Pond	Peak Elev=738.38' Storage=1.521 af Inflow=10.05 cfs 2.066 af Primary=2.82 cfs 0.578 af Secondary=0.00 cfs 0.000 af Outflow=2.82 cfs 0.578 af

Total Runoff Area = 12.789 ac Runoff Volume = 2.072 af Average Runoff Depth = 1.94"
77.82% Pervious = 9.953 ac 22.18% Impervious = 2.836 ac

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Summary for Subcatchment CA10: South Scale Area

Runoff = 0.16 cfs @ 0.23 hrs, Volume= 0.034 af, Depth= 1.10"
 Routed to Pond I15 : Inlet 1-5

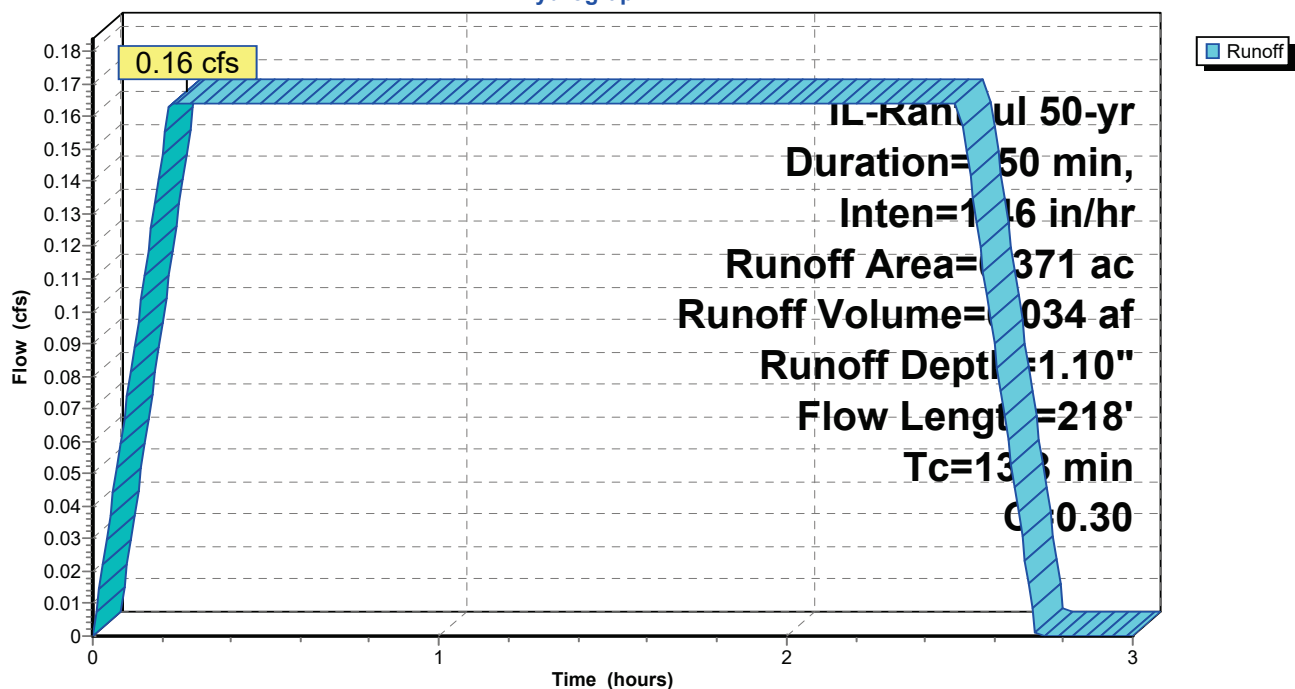
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.007	0.40	Orthents, loamy, 1 to 7 percent slopes (802B), Well drained, HSG C
0.364	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.371	0.30	Weighted Average
0.371		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	100	0.0176	0.16		Sheet Flow, Grass area S of access road Grass: Short n= 0.150 P2= 3.03"
2.7	118	0.0105	0.72		Shallow Concentrated Flow, Grass area s of access road Short Grass Pasture Kv= 7.0 fps
13.3	218	Total			

Subcatchment CA10: South Scale Area

Hydrograph



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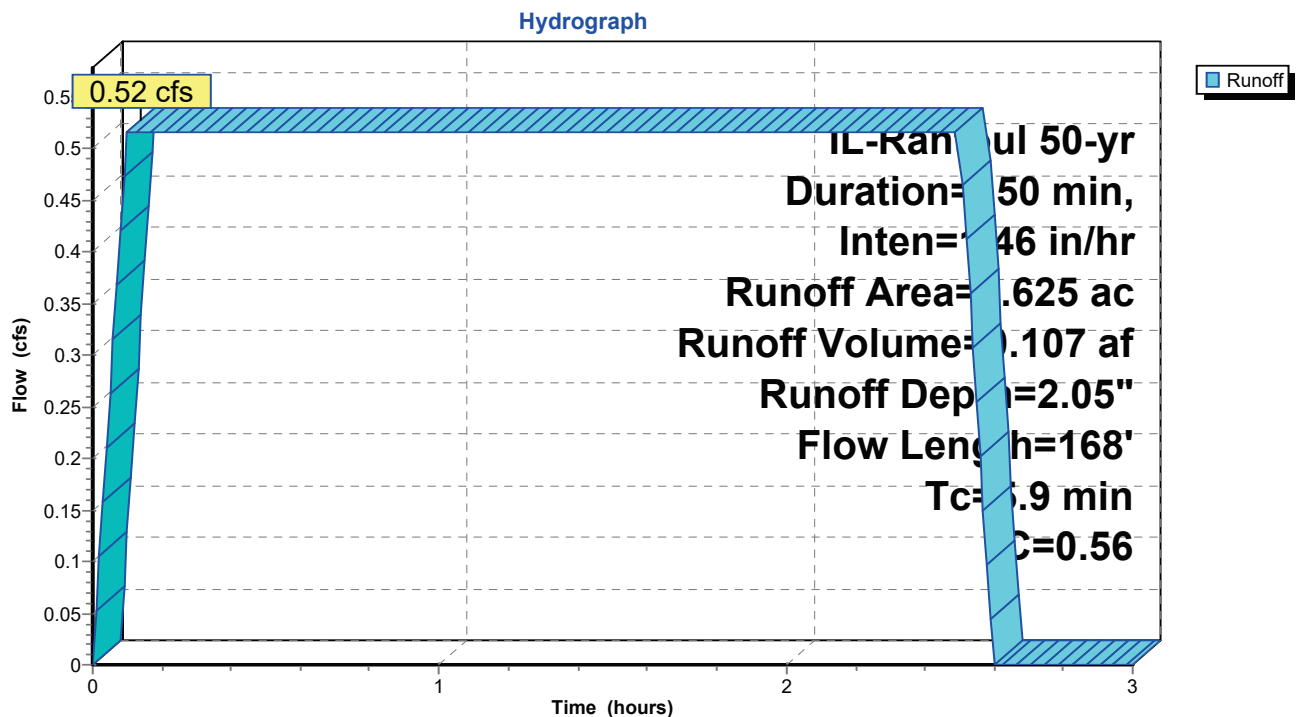
Summary for Subcatchment CA11: North Scale Area

Runoff = 0.52 cfs @ 0.10 hrs, Volume= 0.107 af, Depth= 2.05"
 Routed to Pond I82 : Inlet 8-2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.032	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.258	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.111	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.162	0.95	Asphalt
0.061	0.95	Sidewalk
0.001	0.60	Gravel
0.625	0.56	Weighted Average
0.402		64.32% Pervious Area
0.223		35.68% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.4	42	0.0274	0.16		Sheet Flow, Grass area SW of building Grass: Short n= 0.150 P2= 3.03"
1.5	126	0.0047	1.39		Shallow Concentrated Flow, Access road N of scale Paved Kv= 20.3 fps
5.9	168	Total			

Subcatchment CA11: North Scale Area

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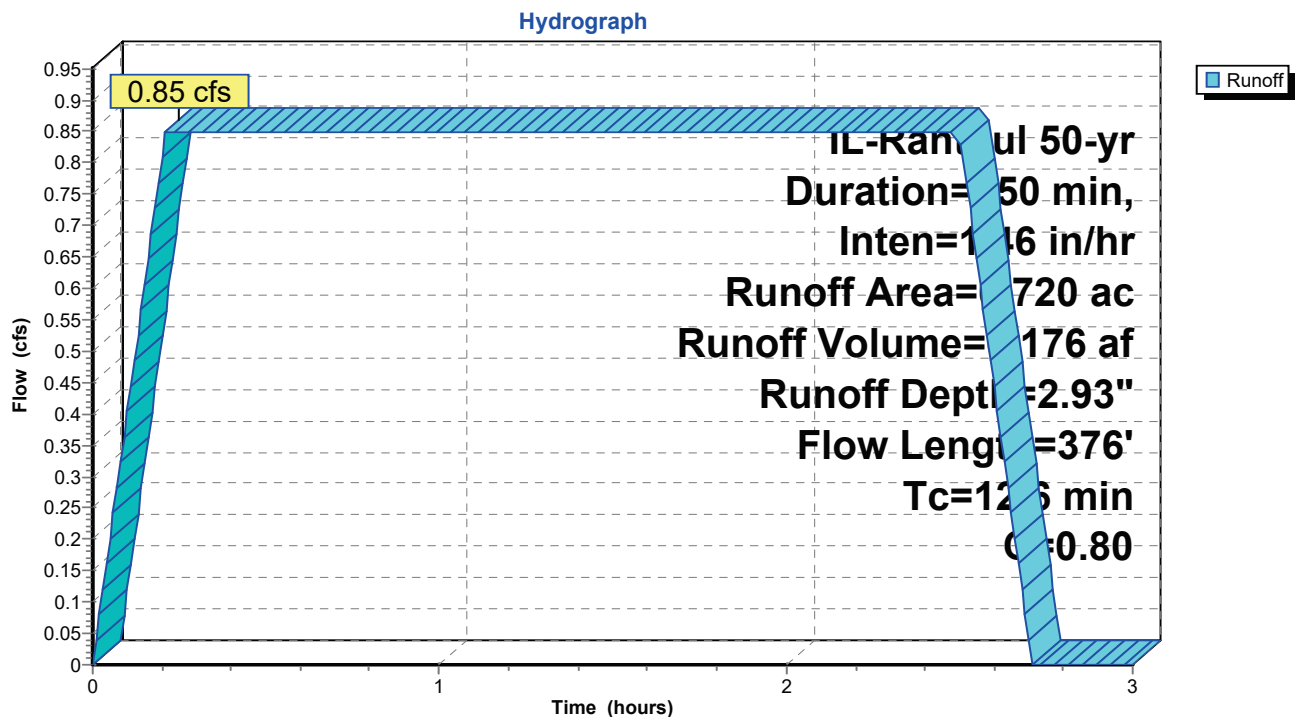
Summary for Subcatchment CA12: Building Entrance Area

Runoff = 0.85 cfs @ 0.21 hrs, Volume= 0.176 af, Depth= 2.93"
 Routed to Pond I71 : Inlet 7-1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.132	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.001	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.046	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.413	0.95	Asphalt
0.095	0.95	Sidewalk
0.033	0.60	Gravel
0.720	0.80	Weighted Average
0.212		29.44% Pervious Area
0.508		70.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	116	0.0224	0.18		Sheet Flow, Gass SE of building Grass: Short n= 0.150 P2= 3.03"
1.8	260	0.0137	2.38		Shallow Concentrated Flow, Access Road Paved Kv= 20.3 fps
12.6	376	Total			

Subcatchment CA12: Building Entrance Area

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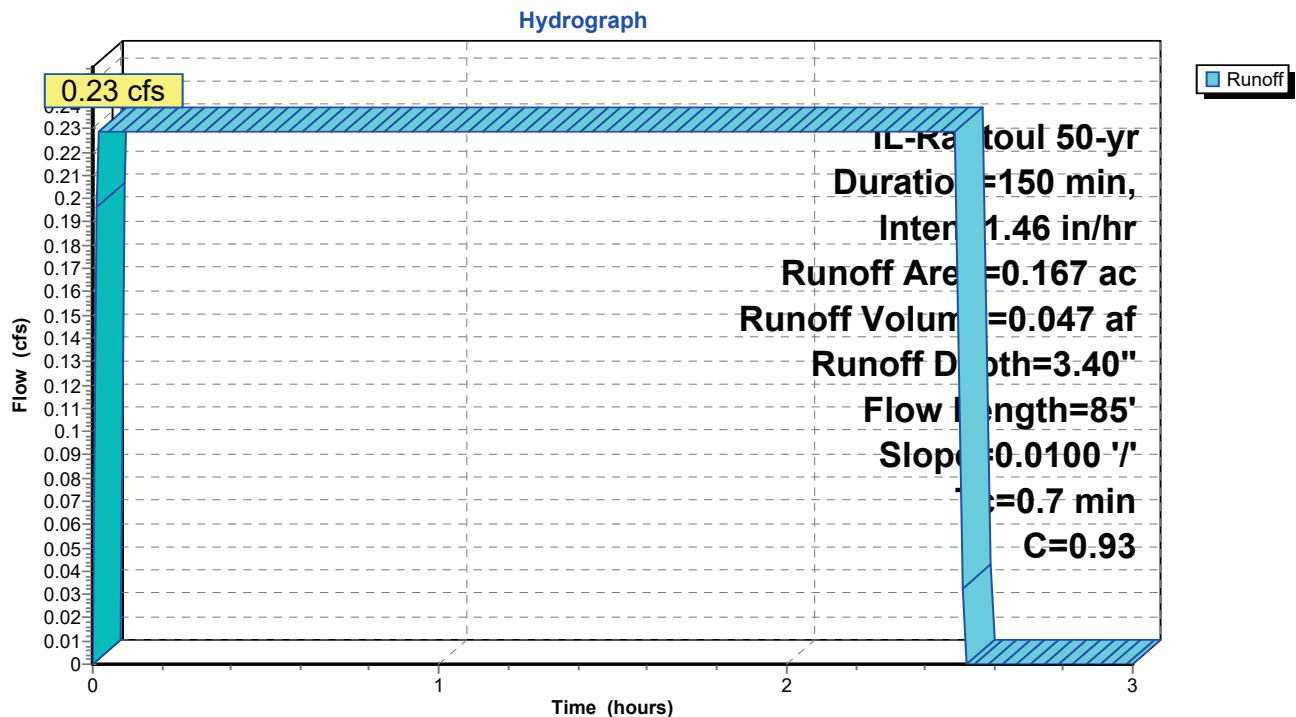
Summary for Subcatchment CA13: South Building Area[70] Warning: $T_c < 8dt$ requires smaller dt

Runoff = 0.23 cfs @ 0.02 hrs, Volume= 0.047 af, Depth= 3.40"
 Routed to Reach R13 : Pipe CA13 to I81

Runoff by Rational method, Rise/Fall=1.0/1.0 x T_c , Time Span= 0.00-3.00 hrs, dt = 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.162	0.95	Building
0.001	0.95	Sidewalk
0.004	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.167	0.93	Weighted Average
0.004		2.40% Pervious Area
0.163		97.60% Impervious Area

T_c (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	85	0.0100	2.03		Shallow Concentrated Flow, Parking N of building Paved K_v = 20.3 fps

Subcatchment CA13: South Building Area

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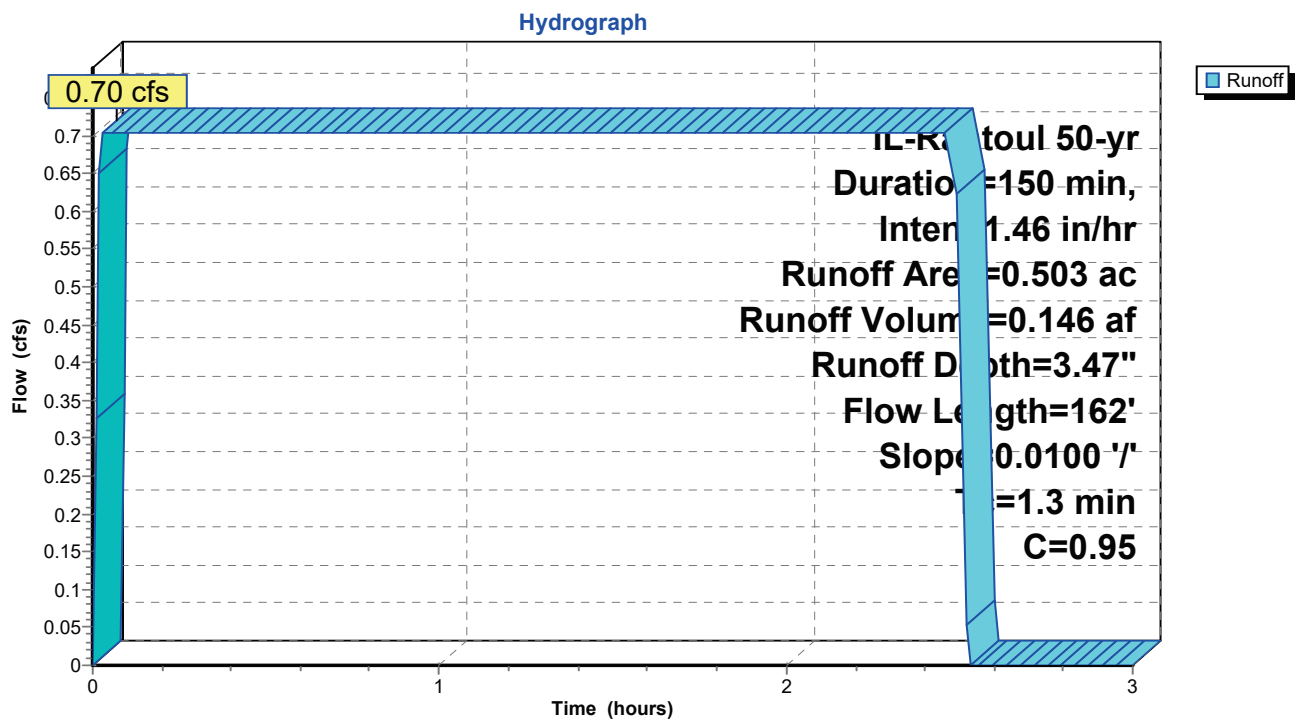
Summary for Subcatchment CA14: North Building Area[70] Warning: $T_c < 8dt$ requires smaller dt

Runoff = 0.70 cfs @ 0.03 hrs, Volume= 0.146 af, Depth= 3.47"
 Routed to Pond I41 : Inlet 4-1

Runoff by Rational method, Rise/Fall=1.0/1.0 x T_c , Time Span= 0.00-3.00 hrs, dt = 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.503	0.95	Unconnected roofs, HSG A
0.503		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	162	0.0100	2.03		Shallow Concentrated Flow, N building
					Paved Kv= 20.3 fps

Subcatchment CA14: North Building Area

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Summary for Subcatchment CA15: West Building Area

Runoff = 0.34 cfs @ 0.23 hrs, Volume= 0.069 af, Depth= 1.28"
 Routed to Pond I21 : Inlet 2-1

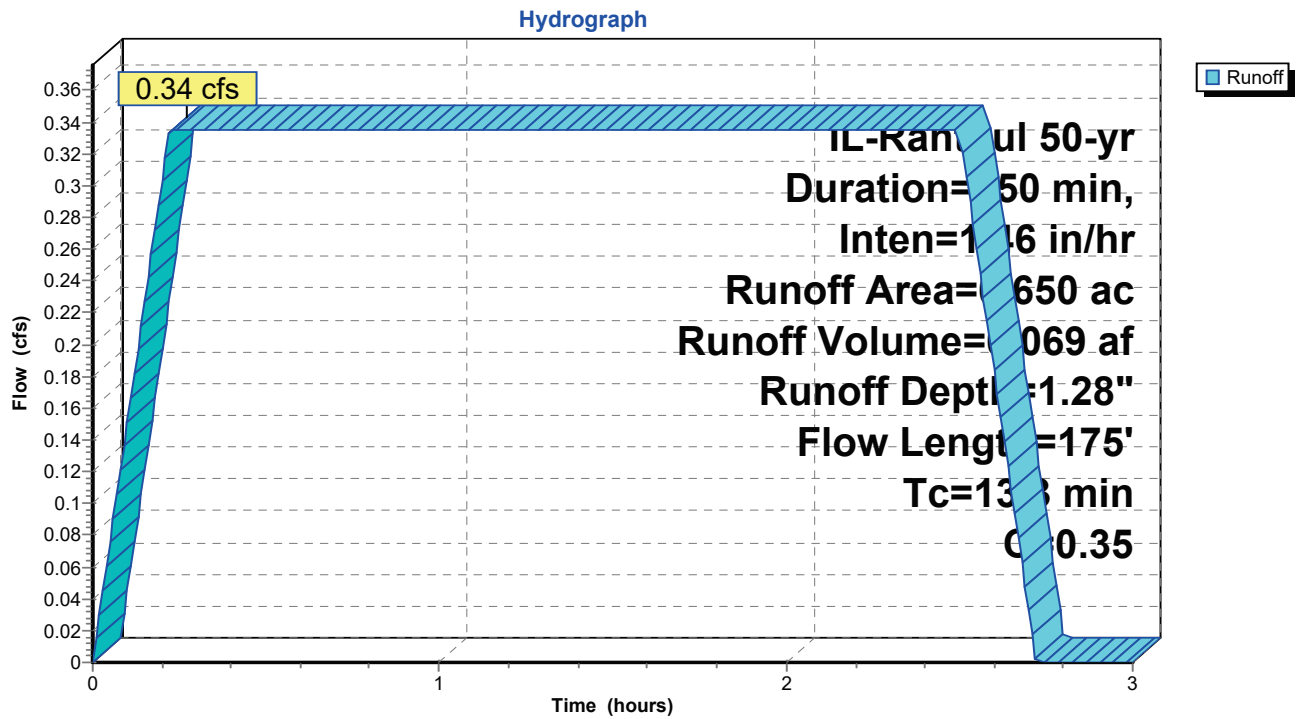
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.394	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.199	0.30	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D
0.036	0.95	Asphalt
0.011	0.95	Sidewalk
0.010	0.60	Gravel
0.650	0.35	Weighted Average
0.603		92.77% Pervious Area
0.047		7.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.1	79	0.0123	0.13		Sheet Flow, Parking N of building Grass: Short n= 0.150 P2= 3.03"
1.0	5	0.0172	0.09		Sheet Flow, Parking N of building Grass: Short n= 0.150 P2= 3.03"
0.3	16	0.0193	0.91		Sheet Flow, Parking access road Smooth surfaces n= 0.011 P2= 3.03"
1.9	75	0.0084	0.64		Shallow Concentrated Flow, Parking N of building Short Grass Pasture Kv= 7.0 fps
13.3	175	Total			

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Subcatchment CA15: West Building Area



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Summary for Subcatchment CA16: East Access Road Area

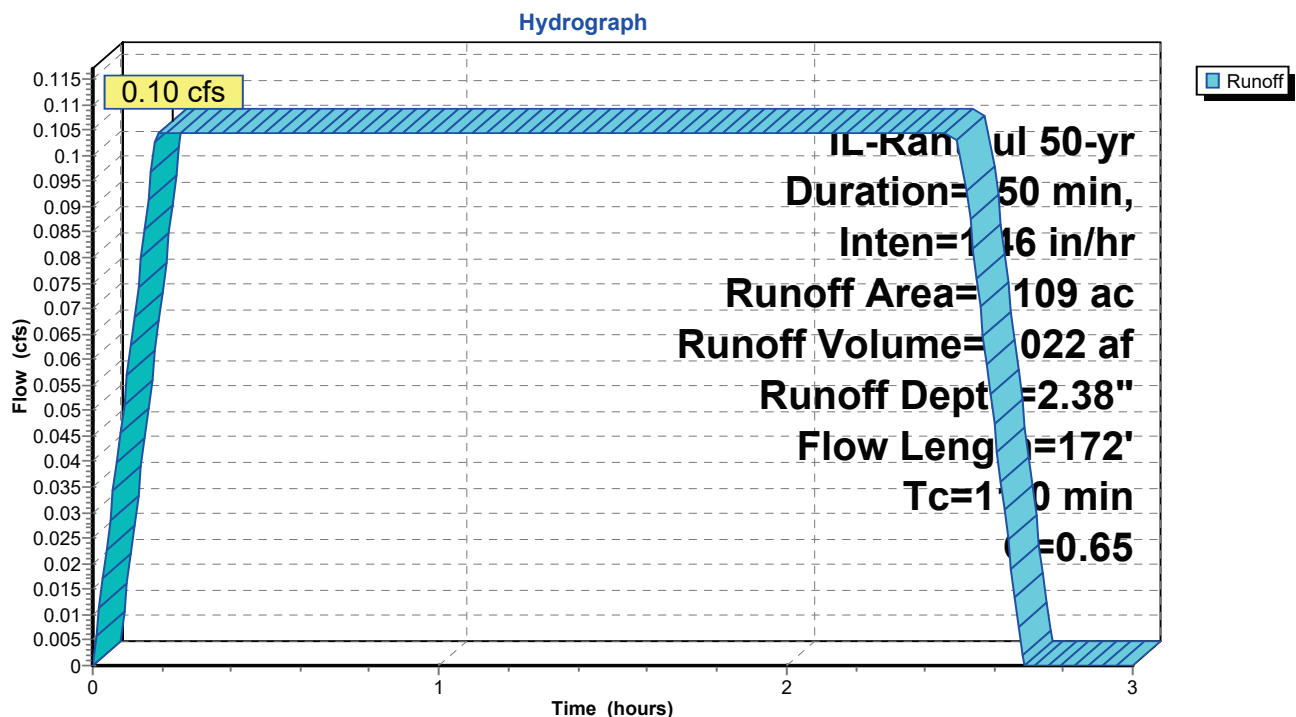
Runoff = 0.10 cfs @ 0.19 hrs, Volume= 0.022 af, Depth= 2.38"
 Routed to Pond I91 : Inlet 9-1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.061	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.047	0.95	Ashpalt
0.001	0.60	Gravel
0.109	0.65	Weighted Average
0.062		56.88% Pervious Area
0.047		43.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	113	0.0218	0.18		Sheet Flow, Grass E of building Grass: Short n= 0.150 P2= 3.03"
0.3	59	0.0327	3.67		Shallow Concentrated Flow, Access Road Paved Kv= 20.3 fps
11.0	172	Total			

Subcatchment CA16: East Access Road Area



340656 - Rantoul Transfer Station - Prop *L-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr*

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Summary for Subcatchment CA17: East Building Area

Runoff = 0.49 cfs @ 0.22 hrs, Volume= 0.102 af, Depth= 2.30"
 Routed to Pond I92 : Inlet 9-2

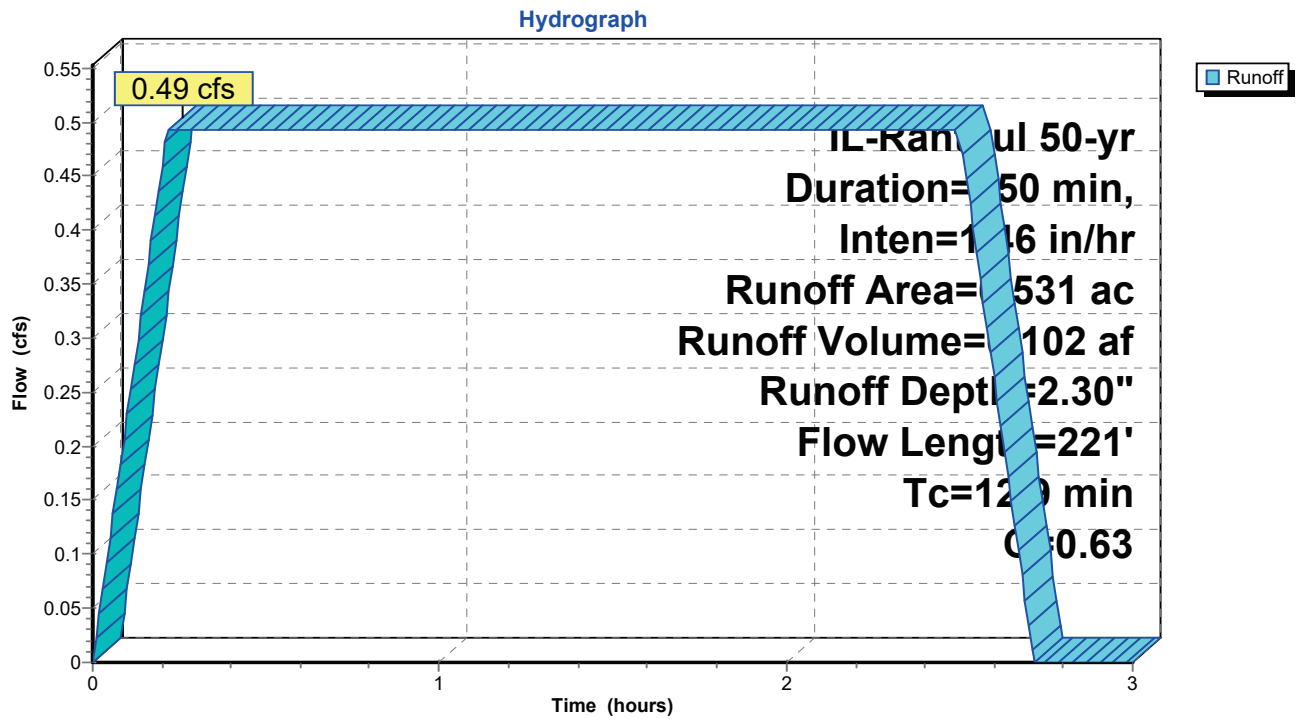
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.115	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.032	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.008	0.95	Sidewalk
0.269	0.60	Gravel
0.107	0.95	Asphalt
0.531	0.63	Weighted Average
0.416		78.34% Pervious Area
0.115		21.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.0	100	0.0129	0.14		Sheet Flow, Grass E of building Grass: Short n= 0.150 P2= 3.03"
0.4	26	0.0231	1.06		Shallow Concentrated Flow, Access Road Short Grass Pasture Kv= 7.0 fps
0.5	95	0.0344	2.99		Shallow Concentrated Flow, Access Road Unpaved Kv= 16.1 fps
12.9	221	Total			

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Subcatchment CA17: East Building Area



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Summary for Subcatchment CA18: SE 1 Parking Area

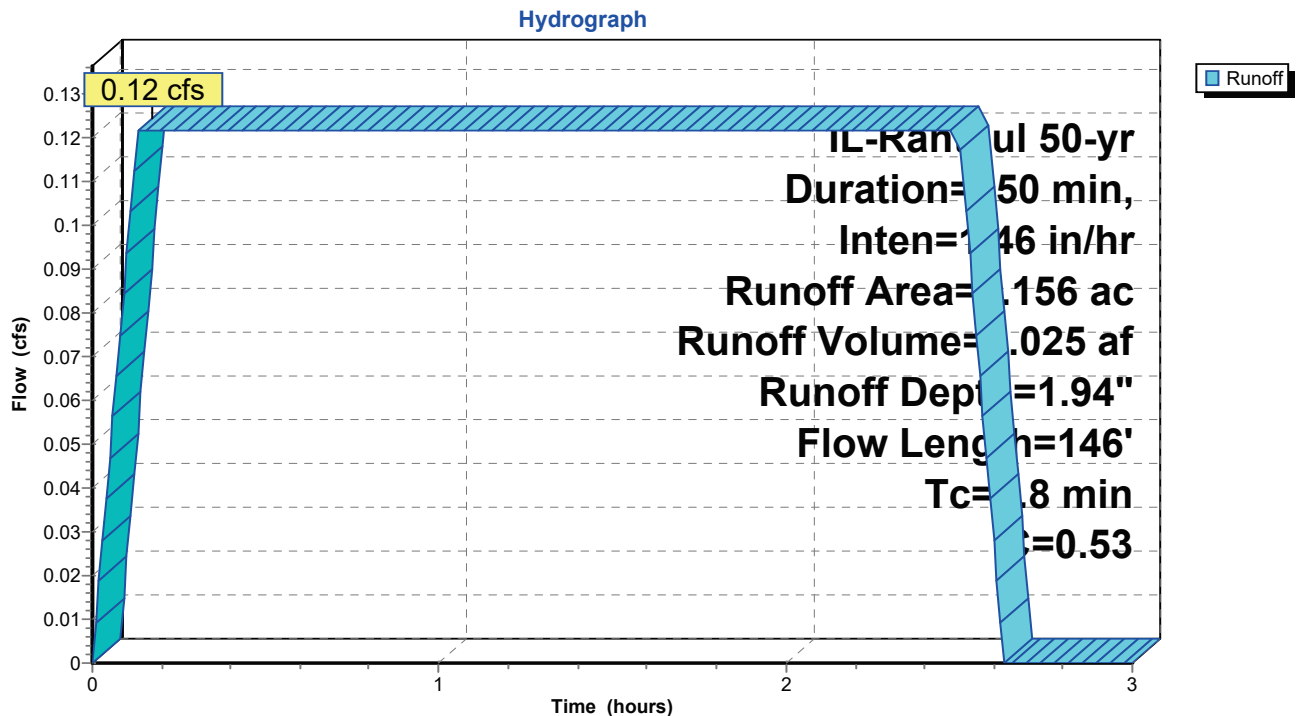
Runoff = 0.12 cfs @ 0.13 hrs, Volume= 0.025 af, Depth= 1.94"
 Routed to Pond I53 : Inlet 5-3

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.060	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.096	0.60	Gravel
0.156	0.53	Weighted Average
0.156		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	87	0.0350	0.20		Sheet Flow, Area E outside of property Grass: Short n= 0.150 P2= 3.03"
0.6	59	0.0114	1.72		Shallow Concentrated Flow, Area E outside of property Unpaved Kv= 16.1 fps
7.8	146	Total			

Subcatchment CA18: SE 1 Parking Area



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Summary for Subcatchment CA19: SE 2 Parking Area

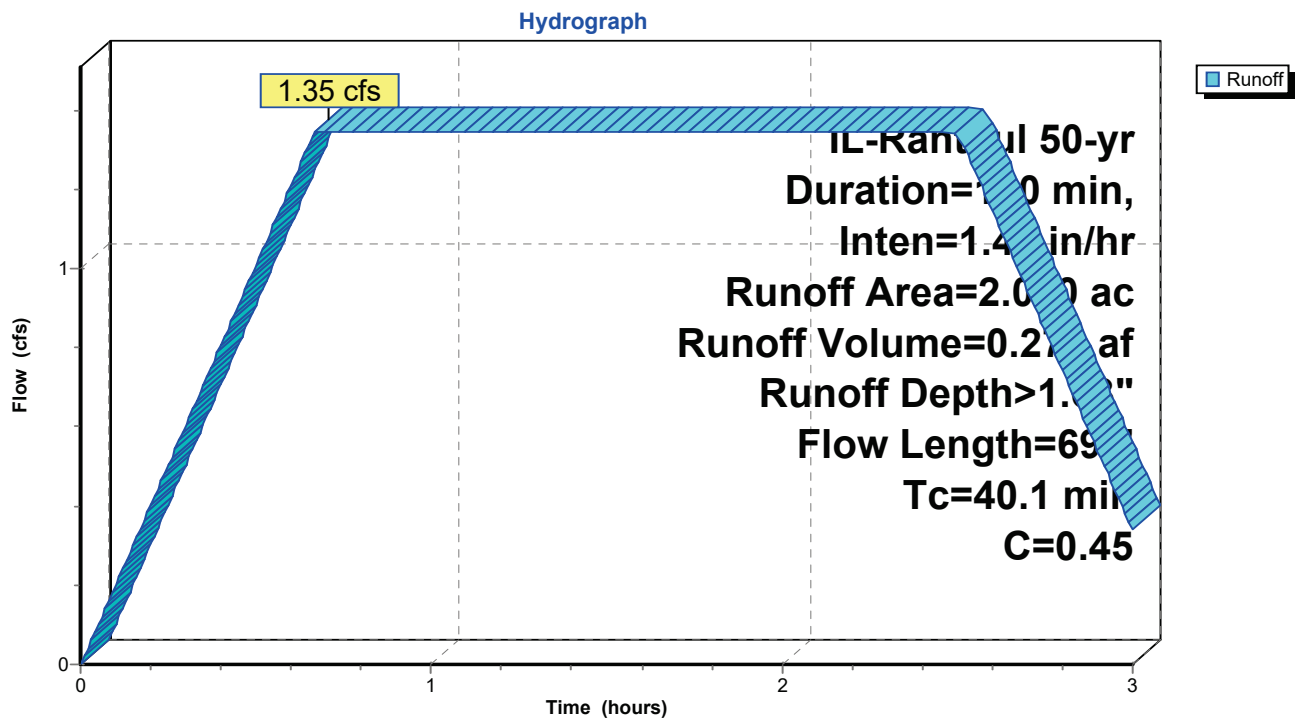
Runoff = 1.35 cfs @ 0.67 hrs, Volume= 0.276 af, Depth> 1.63"
 Routed to Pond I52 : Inlet 5-2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.951	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.609	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.101	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.363	0.60	Gravel
0.006	0.95	Sidewalk
2.030	0.45	Weighted Average
2.024		99.70% Pervious Area
0.006		0.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.3	100	0.0020	0.07		Sheet Flow, Area E outside of property Grass: Short n= 0.150 P2= 3.03"
14.4	526	0.0076	0.61		Shallow Concentrated Flow, Area E outside of property Short Grass Pasture Kv= 7.0 fps
0.4	68	0.0248	2.54		Shallow Concentrated Flow, Parking N of building Unpaved Kv= 16.1 fps
40.1	694	Total			

Subcatchment CA19: SE 2 Parking Area



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Summary for Subcatchment CA20: NE Parking Area

Runoff = 0.87 cfs @ 0.68 hrs, Volume= 0.177 af, Depth> 1.56"
 Routed to Pond I63 : Inlet 6-3

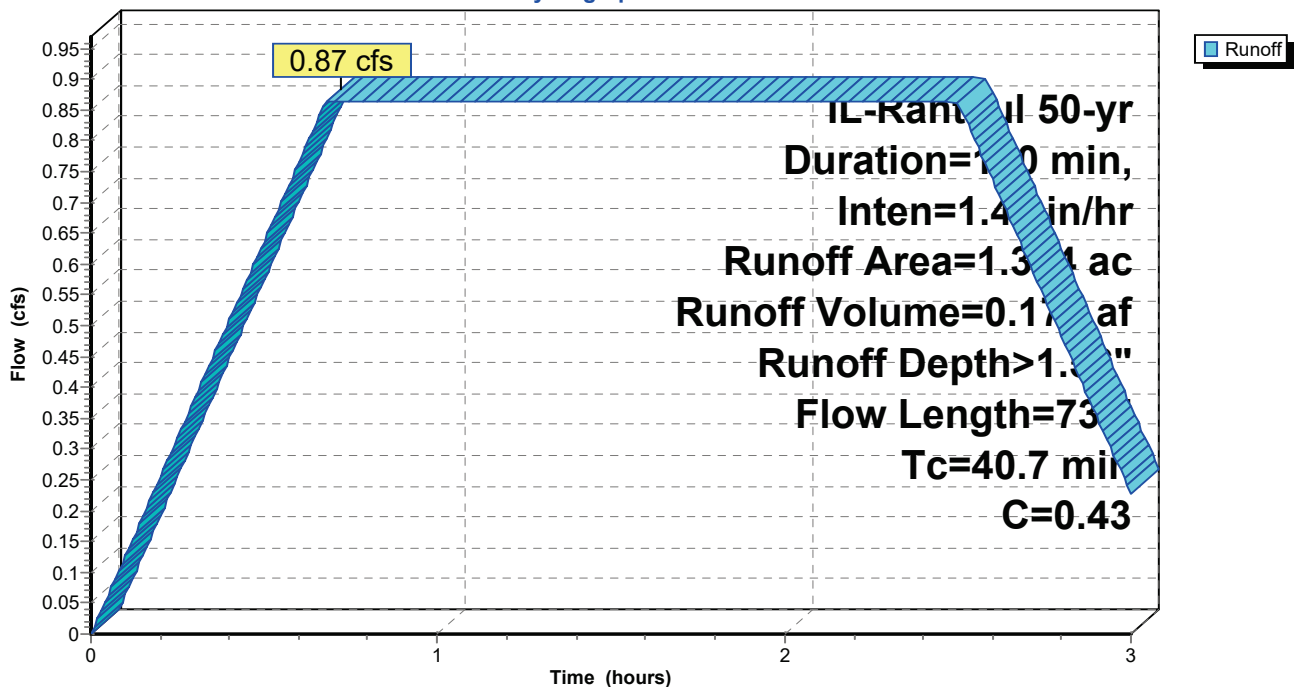
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.338	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.319	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.362	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.345	0.60	Gravel
1.364	0.43	Weighted Average
1.364		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.3	100	0.0020	0.07		Sheet Flow, Area E outside of property Grass: Short n= 0.150 P2= 3.03"
14.8	568	0.0083	0.64		Shallow Concentrated Flow, Area E outside of property Short Grass Pasture Kv= 7.0 fps
0.6	70	0.0132	1.85		Shallow Concentrated Flow, Parking N of building Unpaved Kv= 16.1 fps
40.7	738	Total			

Subcatchment CA20: NE Parking Area

Hydrograph



Summary for Subcatchment CA21: N Central Parking Area

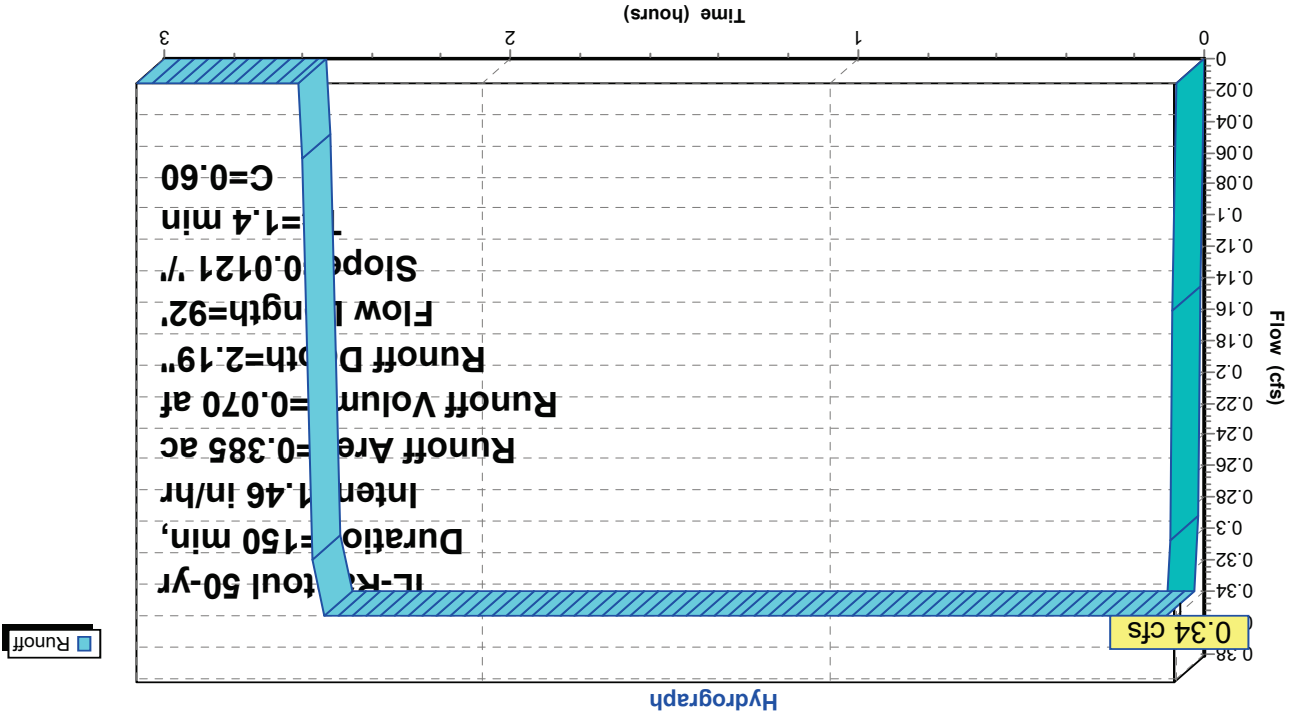
[70] Warning: Tc<8dt requires smaller dt

Runoff = 0.34 cfs @ 0.03 hrs, Volume= 0.070 af, Depth= 2.19"
Routed to Pond 162 : Inlet 6-2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description			
0.385	0.60	Gravel			
0.385		100.00% Pervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	92	0.0121	1.08		Sheet Flow, Parking Area
Smooth surfaces n= 0.011 P2= 3.03"					

Subcatchment CA21: N Central Parking Area



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Summary for Subcatchment CA22: S Central Parking Area[70] Warning: $T_c < 8dt$ requires smaller dt

Runoff = 0.32 cfs @ 0.03 hrs, Volume= 0.067 af, Depth= 2.27"
 Routed to Pond I51 : Inlet 5-1

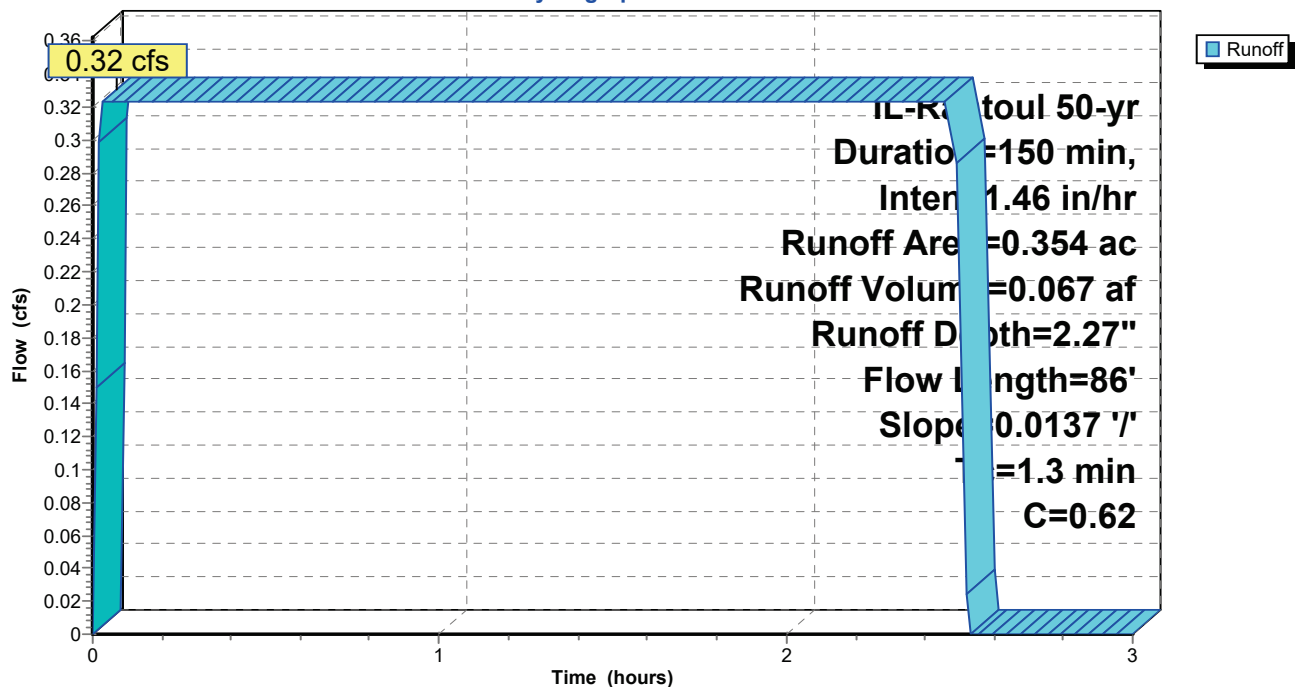
Runoff by Rational method, Rise/Fall=1.0/1.0 x T_c , Time Span= 0.00-3.00 hrs, dt = 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.003	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.331	0.60	Gravel
0.020	0.95	Sidewalk
0.354	0.62	Weighted Average
0.334		94.35% Pervious Area
0.020		5.65% Impervious Area

T_c (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	86	0.0137	1.12		Sheet Flow, Parking Area Smooth surfaces n = 0.011 P_2 = 3.03"

Subcatchment CA22: S Central Parking Area

Hydrograph



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Summary for Subcatchment CA23: NW Parking Area

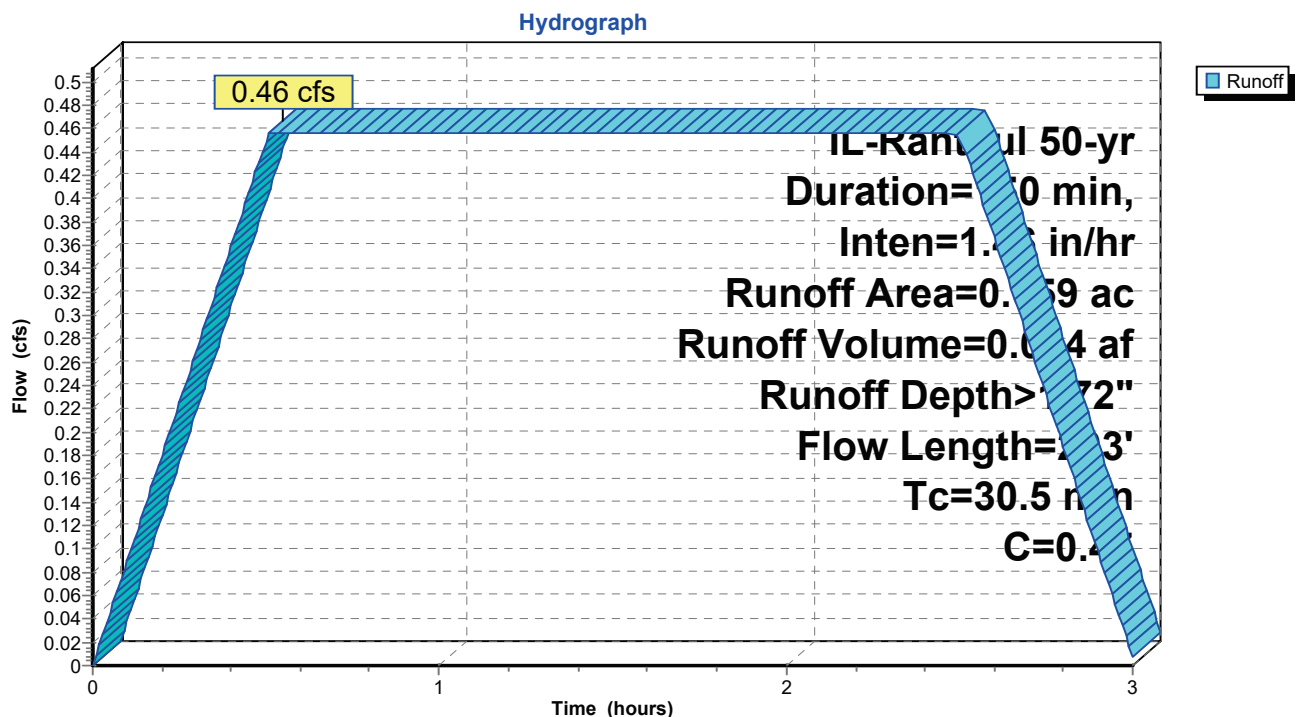
Runoff = 0.46 cfs @ 0.51 hrs, Volume= 0.094 af, Depth> 1.72"
 Routed to Pond I61 : Manhole 6-1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.296	0.30	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D
0.363	0.60	Gravel
0.659	0.47	Weighted Average
0.659		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	100	0.0014	0.06		Sheet Flow, Grass area N of building Grass: Short n= 0.150 P2= 3.03"
0.6	40	0.0238	1.08		Shallow Concentrated Flow, Grass area N of building Short Grass Pasture Kv= 7.0 fps
0.7	63	0.0096	1.58		Shallow Concentrated Flow, Parking N of building Unpaved Kv= 16.1 fps
30.5	203	Total			

Subcatchment CA23: NW Parking Area



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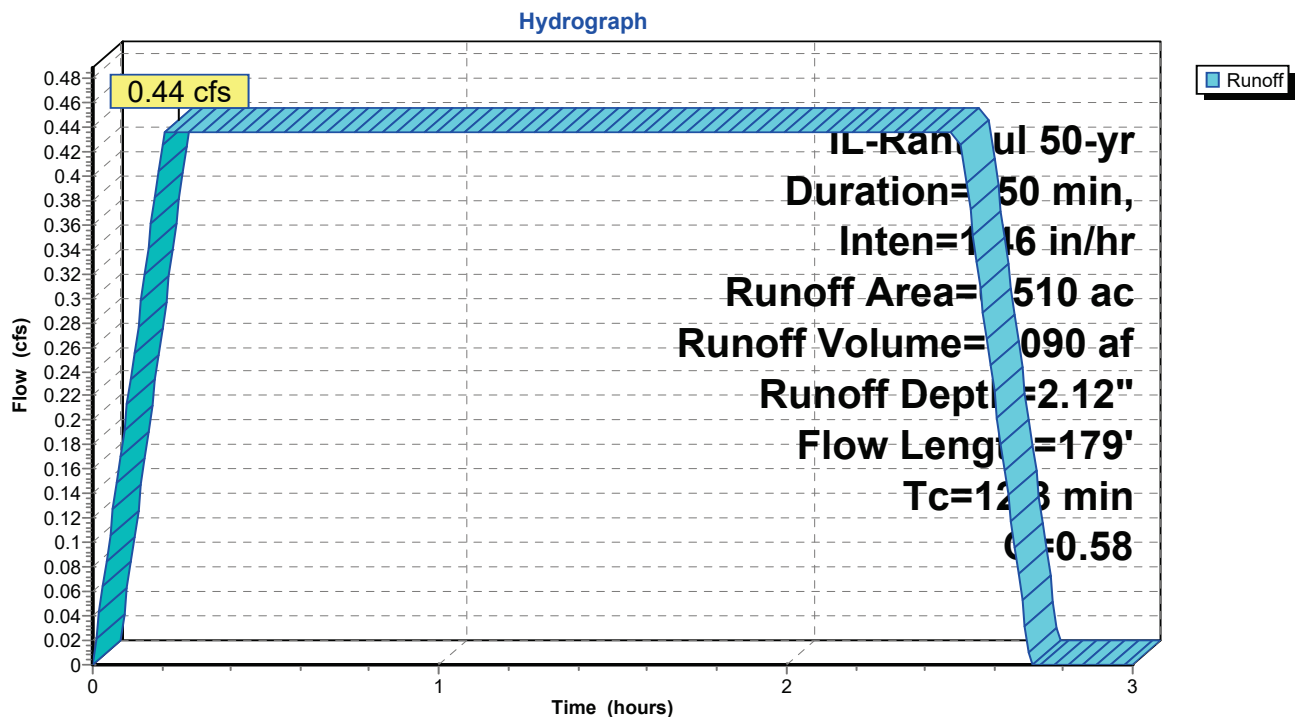
Summary for Subcatchment CA24: SW Parking Area

Runoff = 0.44 cfs @ 0.21 hrs, Volume= 0.090 af, Depth= 2.12"
 Routed to Pond I31 : Manhole 3-1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.001	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.065	0.30	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D
0.015	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.394	0.60	Gravel
0.026	0.95	Sidewalk
0.009	0.95	Asphalt
0.510	0.58	Weighted Average
0.475		93.14% Pervious Area
0.035		6.86% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.4	78	0.0090	0.11		Sheet Flow, Grass area N of building Grass: Short n= 0.150 P2= 3.03"
0.9	101	0.0133	1.86		Shallow Concentrated Flow, Parking N of building Unpaved Kv= 16.1 fps
12.3	179	Total			

Subcatchment CA24: SW Parking Area

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Summary for Subcatchment CA6: Pond Catchment Area

[70] Warning: $T_c < 8dt$ requires smaller dt

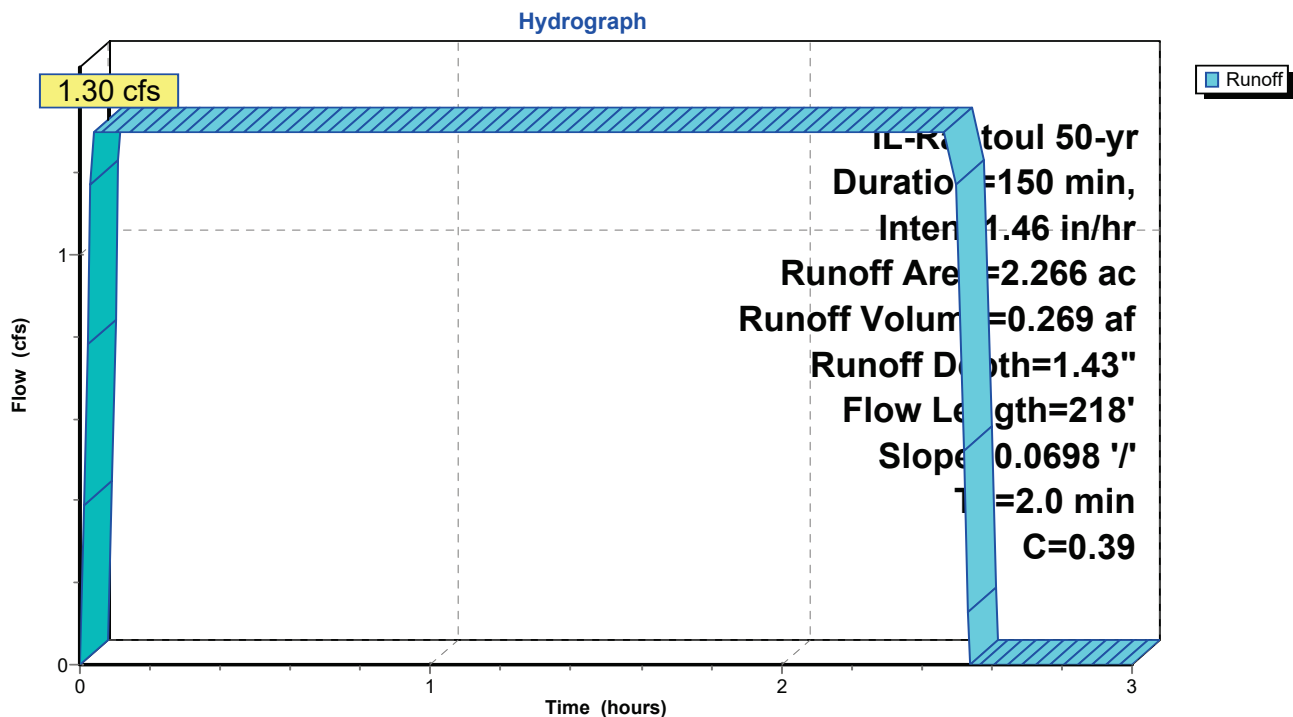
Runoff = 1.30 cfs @ 0.04 hrs, Volume= 0.269 af, Depth= 1.43"
 Routed to Pond P1 : Detention Pond

Runoff by Rational method, Rise/Fall=1.0/1.0 x T_c , Time Span= 0.00-3.00 hrs, dt = 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.523	0.30	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D
1.385	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.063	0.40	Orthents, loamy, 1 to 7 percent slopes (802B), Well drained, HSG C
0.005	0.95	Concrete
0.290	0.95	Building
2.266	0.39	Weighted Average
1.971		86.98% Pervious Area
0.295		13.02% Impervious Area

T_c (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	218	0.0698	1.85		Shallow Concentrated Flow, Grass area W of parking area Short Grass Pasture K_v = 7.0 fps

Subcatchment CA6: Pond Catchment Area



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Summary for Subcatchment CA7: NE Station Area

Runoff = 0.58 cfs @ 0.27 hrs, Volume= 0.119 af, Depth= 1.90"
 Routed to Pond I17 : Trench Drain 1-7

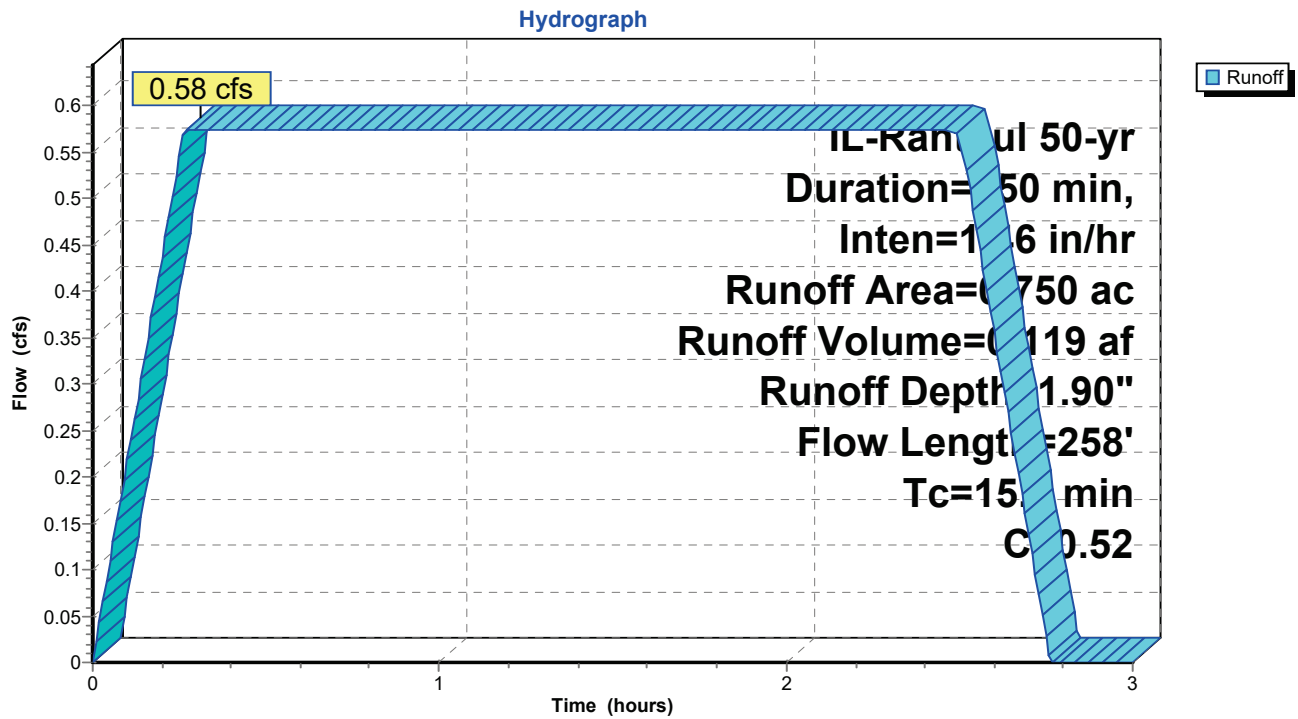
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.479	0.30	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D
0.022	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.249	0.95	Asphalt
0.750	0.52	Weighted Average
0.501		66.80% Pervious Area
0.249		33.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.2	100	0.0084	0.12		Sheet Flow, Parking N of building Grass: Short n= 0.150 P2= 3.03"
0.6	50	0.0042	1.32		Shallow Concentrated Flow, Parking N of building Paved Kv= 20.3 fps
0.0	13	0.0927	6.18		Shallow Concentrated Flow, Parking N of building Paved Kv= 20.3 fps
1.0	95	0.0560	1.66		Shallow Concentrated Flow, Parking N of building Short Grass Pasture Kv= 7.0 fps
15.8	258	Total			

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Subcatchment CA7: NE Station Area



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Summary for Subcatchment CA8: East Station Area

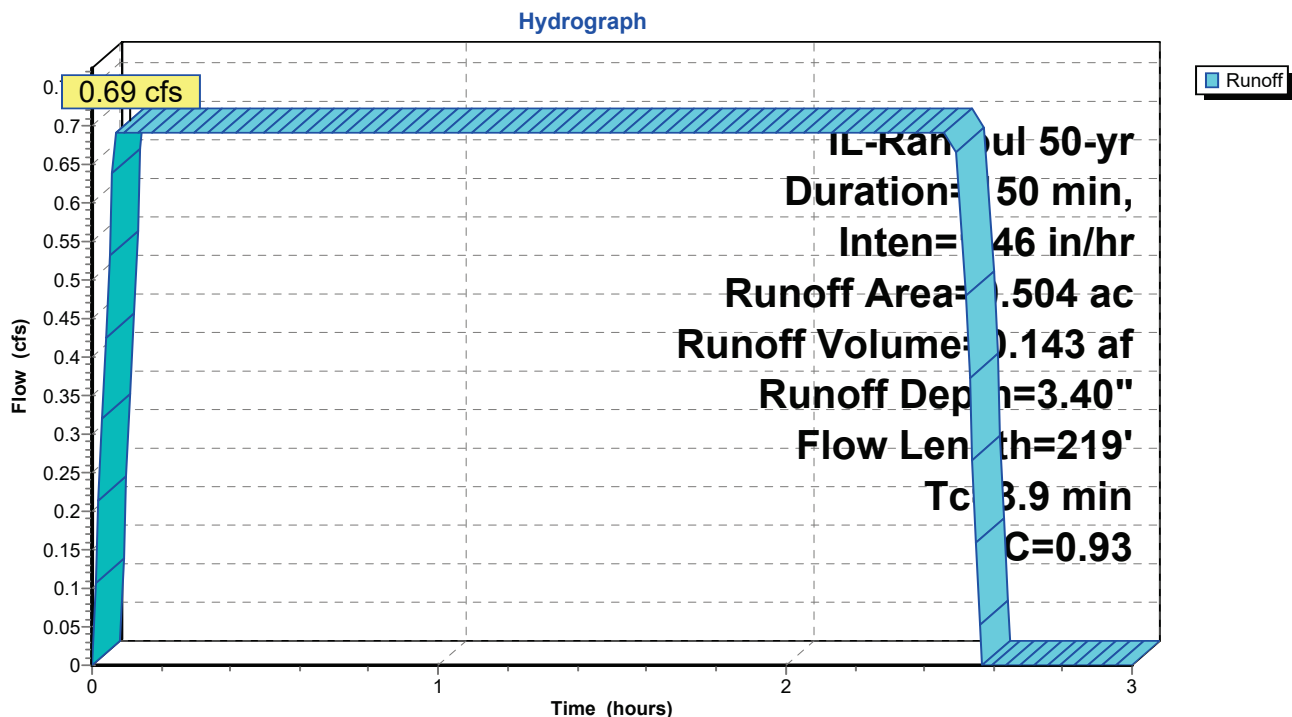
[70] Warning: Tc<8dt requires smaller dt

Runoff = 0.69 cfs @ 0.07 hrs, Volume= 0.143 af, Depth= 3.40"
 Routed to Pond I16 : Inlet 1-6

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)	C	Description
0.012	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.492	0.95	Asphalt
0.504	0.93	Weighted Average
0.012		2.38% Pervious Area
0.492		97.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0087	0.96		Sheet Flow, Grass area W of parking area Smooth surfaces n= 0.011 P2= 3.03"
2.2	119	0.0019	0.88		Shallow Concentrated Flow, Grass area W of parking area Paved Kv= 20.3 fps
3.9	219	Total			

Subcatchment CA8: East Station Area

Summary for Subcatchment CA9: SE Station Area

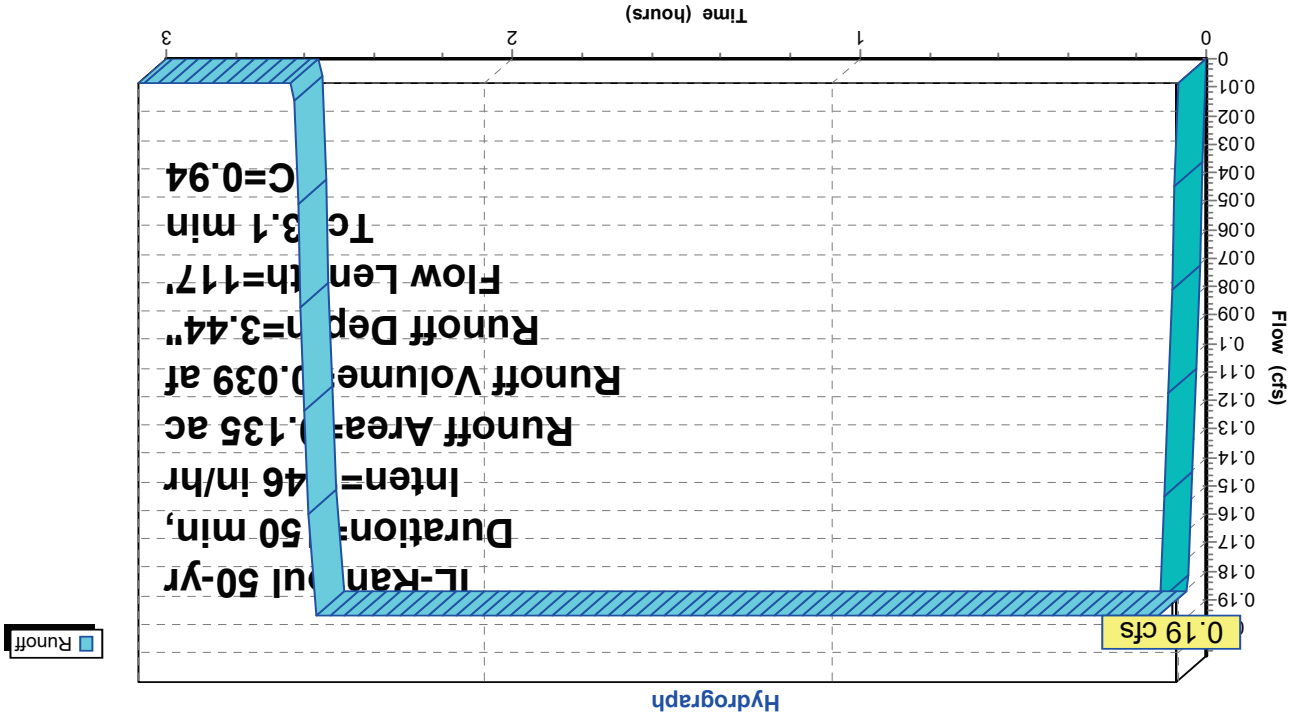
[70] Warning: Tc<8dt requires smaller dt

Runoff = 0.19 cfs @ 0.06 hrs, Volume= 0.039 af, Depth= 3.44"
Routed to Pond 119 : Inlet 1-9

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
IL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

Area (ac)		C	Description			
0.002	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.95	0.133	0.135	Weighted Average
		Asphalt	0.95	0.133	0.002	1.48% Pervious Area
					0.133	98.52% Impervious Area
Tc	Length	Slope	Velocity	Capacity	Description	
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		
3.0	100	0.0023	0.56		Sheet Flow, Access Road	Smooth surfaces n=0.011 P2=3.03"
0.1	17	0.0253	3.23		Shallow Concentrated Flow, Access Road	Paved Kv=20.3 fps
3.1	117	Total				

Subcatchment CA9: SE Station Area



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Summary for Reach R13: Pipe CA13 to I81

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 0.167 ac, 97.60% Impervious, Inflow Depth = 3.40" for 50-yr event
 Inflow = 0.23 cfs @ 0.02 hrs, Volume= 0.047 af
 Outflow = 0.23 cfs @ 0.32 hrs, Volume= 0.047 af, Atten= 0%, Lag= 18.0 min
 Routed to Pond I81 : Inlet 8-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.06 fps, Min. Travel Time= 0.8 min

Avg. Velocity= 2.77 fps, Avg. Travel Time= 0.9 min

Peak Storage= 11 cf @ 0.32 hrs

Average Depth at Peak Storage= 0.15' , Surface Width= 0.72'

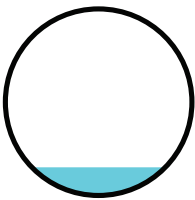
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 4.61 cfs

12.0" Round Pipe

n= 0.010 PVC, smooth interior

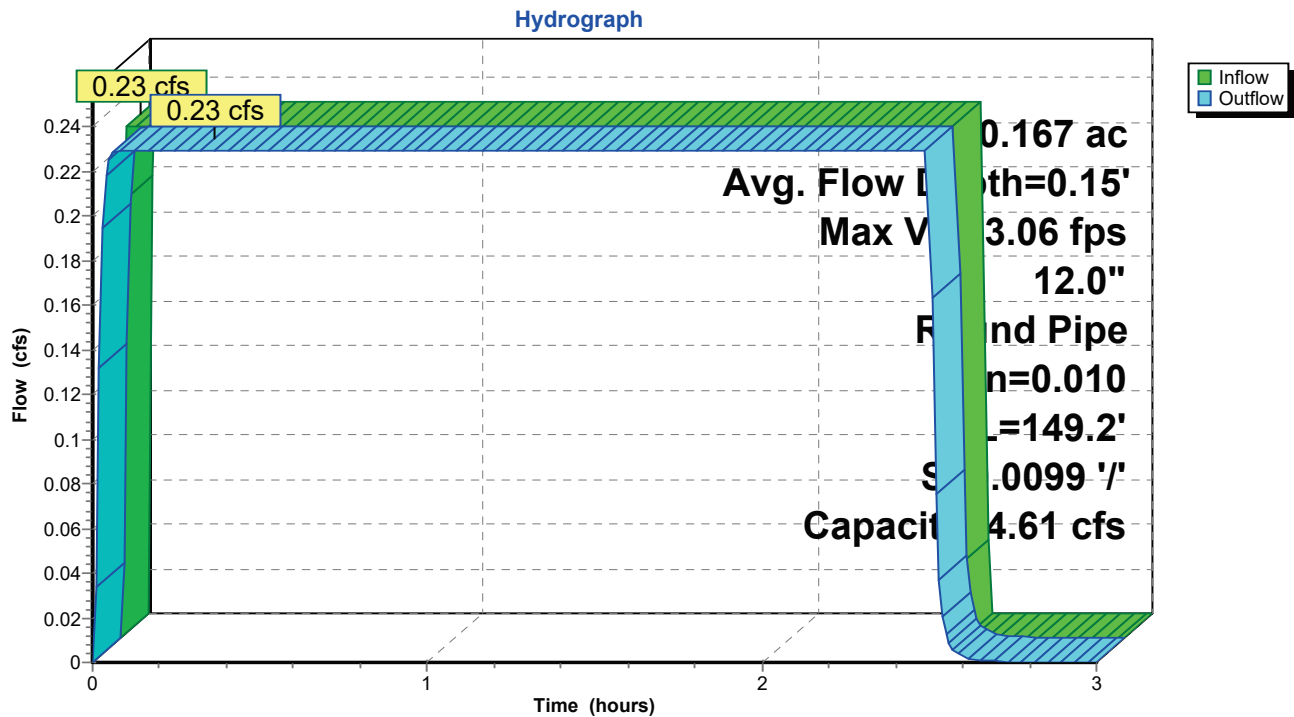
Length= 149.2' Slope= 0.0099 '/'

Inlet Invert= 750.17', Outlet Invert= 748.69'



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Reach R13: Pipe CA13 to I81



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Summary for Reach R14: Pipe I14 to Pond

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 9.773 ac, 23.45% Impervious, Inflow Depth > 2.06" for 50-yr event
 Inflow = 8.17 cfs @ 1.01 hrs, Volume= 1.679 af
 Outflow = 8.17 cfs @ 1.00 hrs, Volume= 1.678 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond P1 : Detention Pond

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 10.89 fps, Min. Travel Time= 0.2 min

Avg. Velocity= 10.02 fps, Avg. Travel Time= 0.2 min

Peak Storage= 111 cf @ 1.00 hrs

Average Depth at Peak Storage= 0.58' , Surface Width= 1.81'

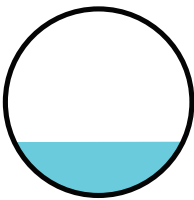
Bank-Full Depth= 2.00' Flow Area= 3.1 sf, Capacity= 45.04 cfs

24.0" Round Pipe

n= 0.012 Steel, smooth

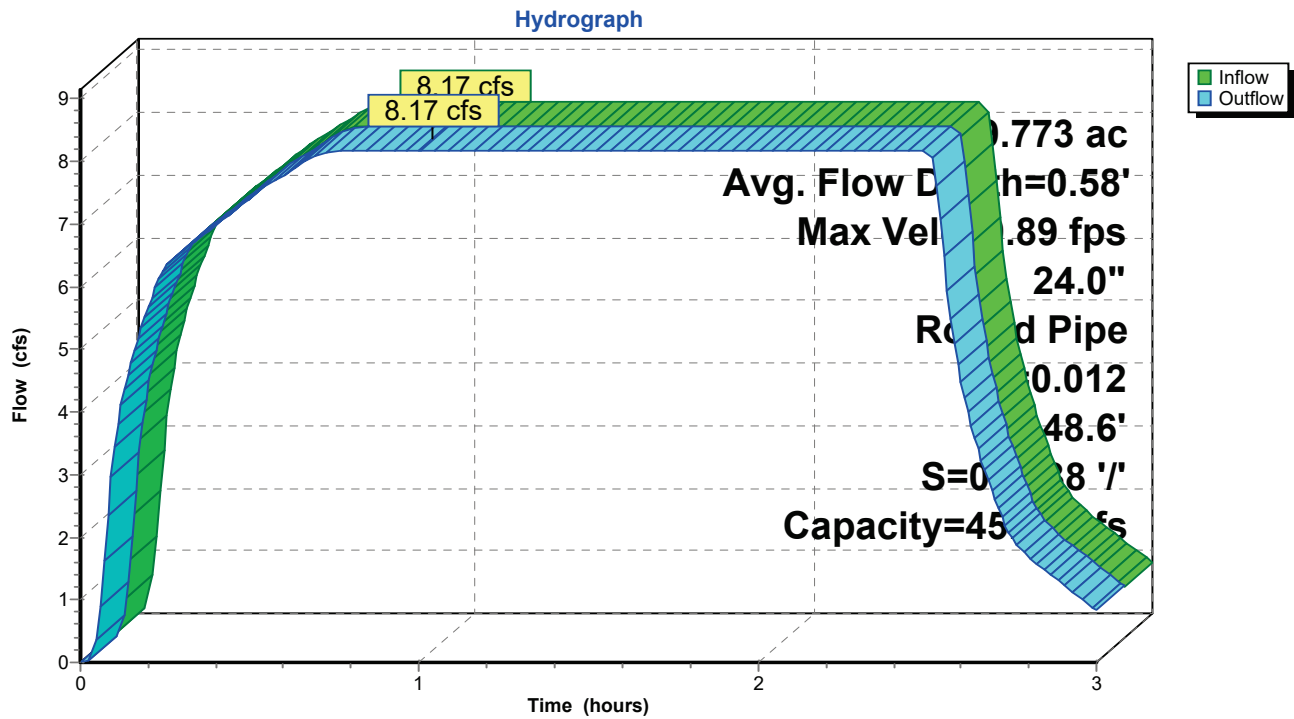
Length= 148.6' Slope= 0.0338 '/'

Inlet Invert= 741.84', Outlet Invert= 736.82'



340656 - Rantoul Transfer Station - PropL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr
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Reach R14: Pipe I14 to Pond



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Summary for Reach R15: Pipe I15 to I18

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 9.638 ac, 22.40% Impervious, Inflow Depth > 2.04" for 50-yr event
 Inflow = 7.98 cfs @ 1.00 hrs, Volume= 1.641 af
 Outflow = 7.98 cfs @ 1.00 hrs, Volume= 1.641 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond I18 : Catch Basin 1-8

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 7.04 fps, Min. Travel Time= 0.3 min

Avg. Velocity= 6.50 fps, Avg. Travel Time= 0.4 min

Peak Storage= 167 cf @ 1.00 hrs

Average Depth at Peak Storage= 0.78' , Surface Width= 1.95'

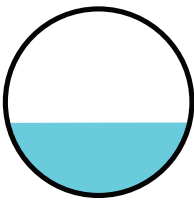
Bank-Full Depth= 2.00' Flow Area= 3.1 sf, Capacity= 24.84 cfs

24.0" Round Pipe

n= 0.012 Steel, smooth

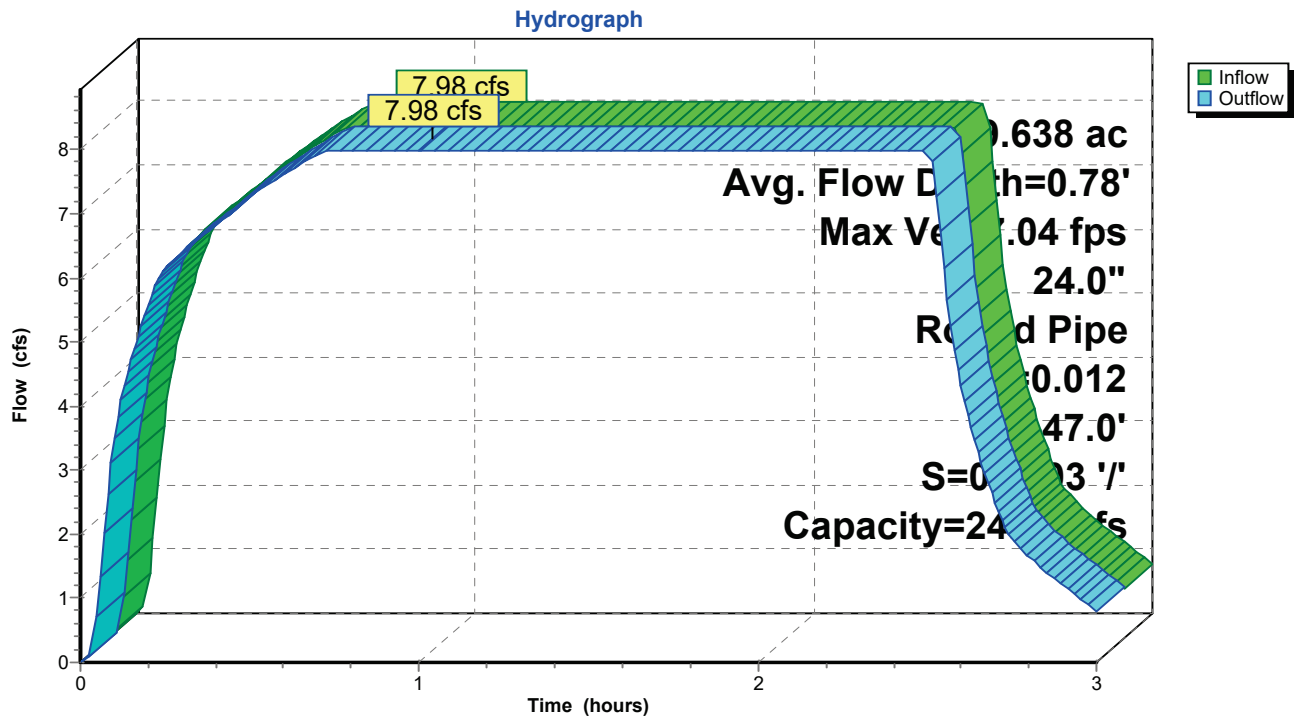
Length= 147.0' Slope= 0.0103 '/'

Inlet Invert= 744.87', Outlet Invert= 743.36'



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Reach R15: Pipe I15 to I18



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Summary for Reach R16: Pipe I16 to I21

[52] Hint: Inlet/Outlet conditions not evaluated

[80] Warning: Exceeded Pond I16 by 0.09' @ 2.57 hrs (0.03 cfs 0.000 af)

Inflow Area = 0.504 ac, 97.62% Impervious, Inflow Depth = 3.40" for 50-yr event
 Inflow = 0.69 cfs @ 0.16 hrs, Volume= 0.143 af
 Outflow = 0.69 cfs @ 0.20 hrs, Volume= 0.143 af, Atten= 0%, Lag= 2.4 min
 Routed to Pond I21 : Inlet 2-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.77 fps, Min. Travel Time= 0.5 min

Avg. Velocity = 3.41 fps, Avg. Travel Time= 0.5 min

Peak Storage= 20 cf @ 0.20 hrs

Average Depth at Peak Storage= 0.28' , Surface Width= 0.90'

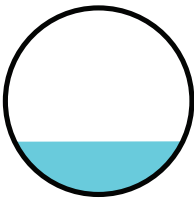
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 3.93 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

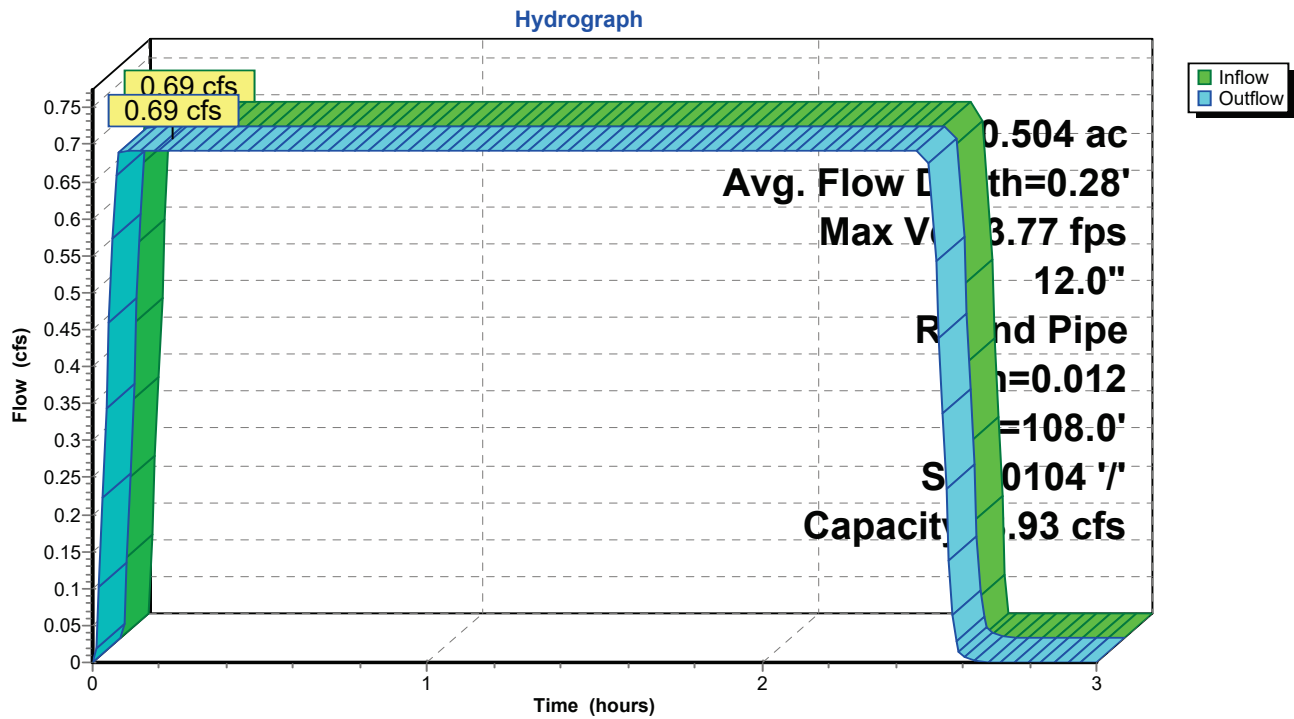
Length= 108.0' Slope= 0.0104 '/'

Inlet Invert= 749.30', Outlet Invert= 748.18'



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Reach R16: Pipe I16 to I21



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Summary for Reach R17: Pipe I17 to Pond

[52] Hint: Inlet/Outlet conditions not evaluated

[80] Warning: Exceeded Pond I17 by 0.01' @ 2.77 hrs (0.00 cfs 0.000 af)

Inflow Area = 0.750 ac, 33.20% Impervious, Inflow Depth = 1.90" for 50-yr event
 Inflow = 0.58 cfs @ 0.27 hrs, Volume= 0.119 af
 Outflow = 0.58 cfs @ 0.27 hrs, Volume= 0.119 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond P1 : Detention Pond

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 6.64 fps, Min. Travel Time= 0.1 min

Avg. Velocity= 6.35 fps, Avg. Travel Time= 0.1 min

Peak Storage= 2 cf @ 0.27 hrs

Average Depth at Peak Storage= 0.23' , Surface Width= 0.50'

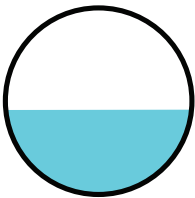
Bank-Full Depth= 0.50' Flow Area= 0.2 sf, Capacity= 1.36 cfs

6.0" Round Pipe

n= 0.012 Steel, smooth

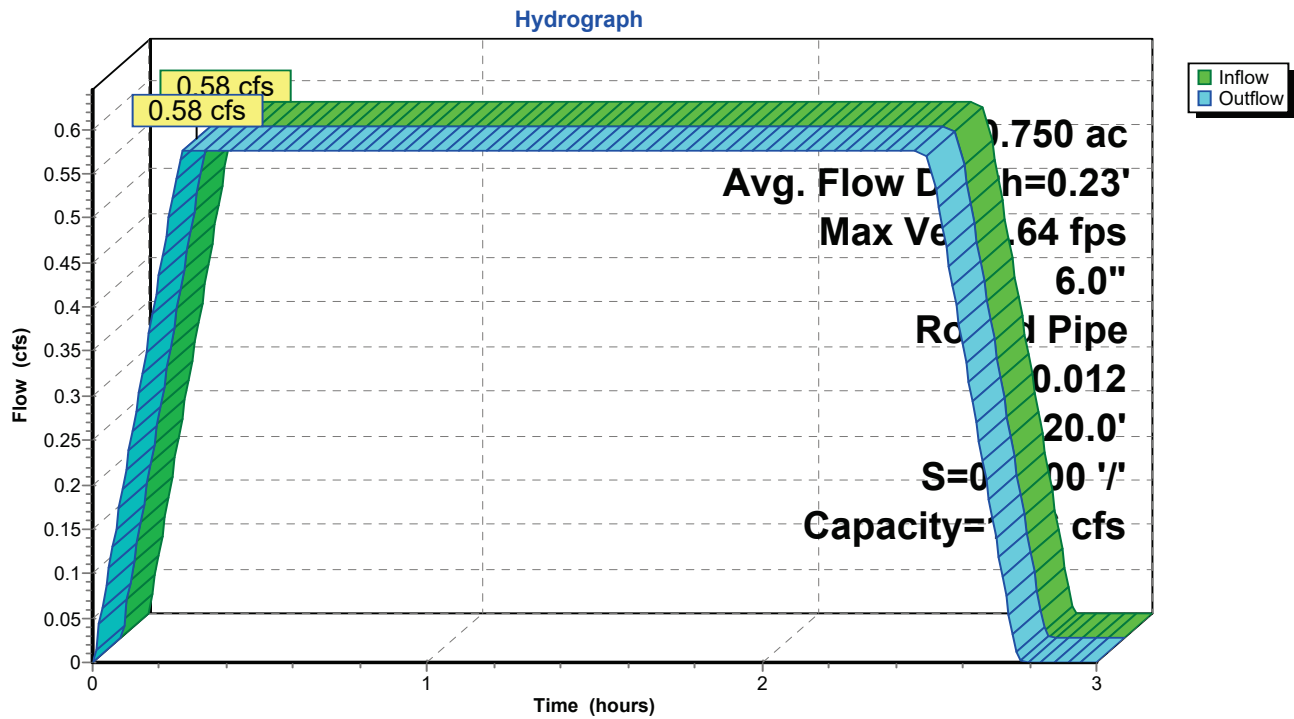
Length= 20.0' Slope= 0.0500 '/'

Inlet Invert= 745.50', Outlet Invert= 744.50'



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Reach R17: Pipe I17 to Pond



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Summary for Reach R18: Pipe I18 to I14

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 9.773 ac, 23.45% Impervious, Inflow Depth > 2.06" for 50-yr event
 Inflow = 8.17 cfs @ 1.00 hrs, Volume= 1.679 af
 Outflow = 8.17 cfs @ 1.00 hrs, Volume= 1.679 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond I14 : Inlet 1-4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 12.01 fps, Min. Travel Time= 0.2 min

Avg. Velocity= 11.07 fps, Avg. Travel Time= 0.2 min

Peak Storage= 100 cf @ 0.99 hrs

Average Depth at Peak Storage= 0.54' , Surface Width= 1.77'

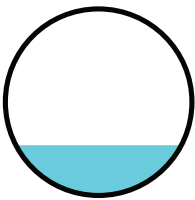
Bank-Full Depth= 2.00' Flow Area= 3.1 sf, Capacity= 51.69 cfs

24.0" Round Pipe

n= 0.012 Steel, smooth

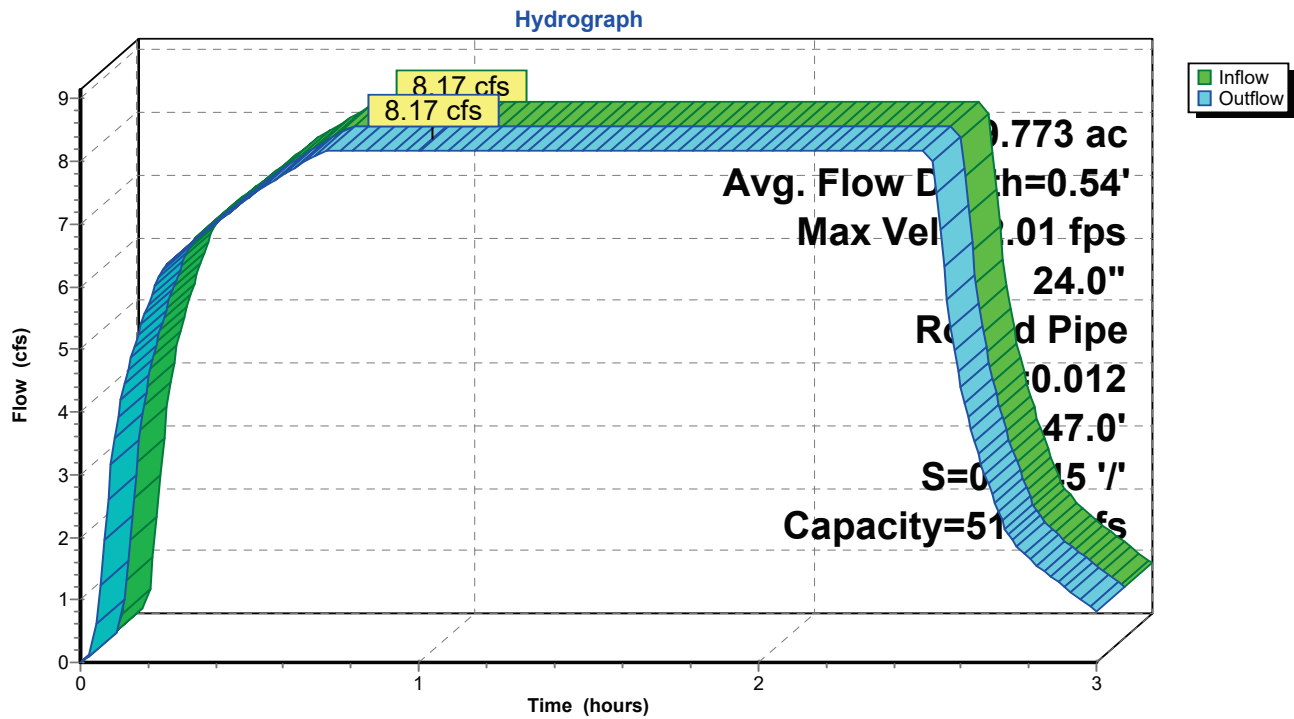
Length= 147.0' Slope= 0.0445 '/'

Inlet Invert= 743.36', Outlet Invert= 736.82'



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Reach R18: Pipe I18 to I14



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Summary for Reach R19: Pipe I19 to I14

[52] Hint: Inlet/Outlet conditions not evaluated

[80] Warning: Exceeded Pond I19 by 0.01' @ 2.57 hrs (0.00 cfs 0.000 af)

Inflow Area = 0.135 ac, 98.52% Impervious, Inflow Depth = 3.44" for 50-yr event
 Inflow = 0.19 cfs @ 0.10 hrs, Volume= 0.039 af
 Outflow = 0.19 cfs @ 0.06 hrs, Volume= 0.039 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond I18 : Catch Basin 1-8

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.30 fps, Min. Travel Time= 0.2 min

Avg. Velocity= 4.20 fps, Avg. Travel Time= 0.2 min

Peak Storage= 2 cf @ 0.06 hrs

Average Depth at Peak Storage= 0.10' , Surface Width= 0.61'

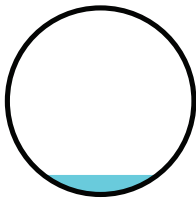
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 8.15 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

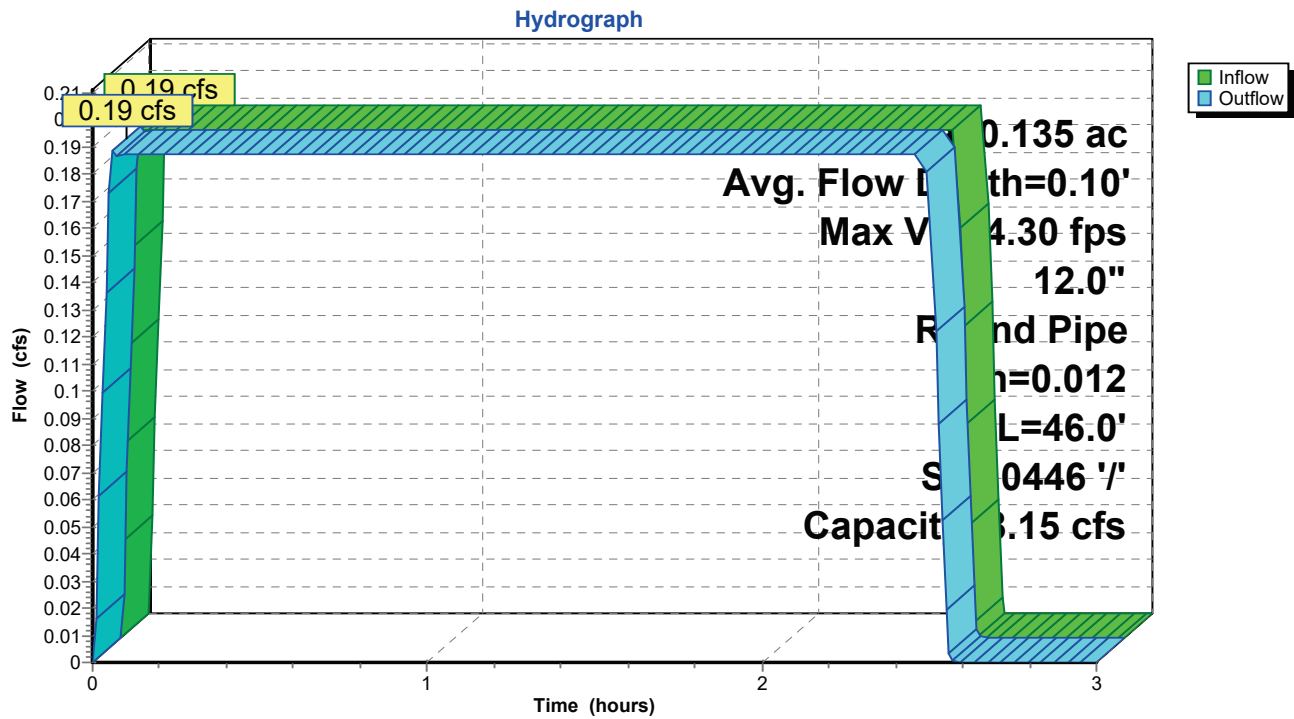
Length= 46.0' Slope= 0.0446 '/'

Inlet Invert= 745.41', Outlet Invert= 743.36'



340656 - Rantoul Transfer Station - Prop L-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr
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Reach R19: Pipe I19 to I14



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Summary for Reach R21: Pipe I21 to I15

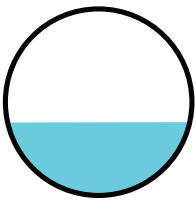
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 7.115 ac, 15.50% Impervious, Inflow Depth > 1.95" for 50-yr event
 Inflow = 5.62 cfs @ 0.99 hrs, Volume= 1.156 af
 Outflow = 5.62 cfs @ 1.00 hrs, Volume= 1.154 af, Atten= 0%, Lag= 0.6 min
 Routed to Pond I15 : Inlet 1-5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Max. Velocity= 4.93 fps, Min. Travel Time= 0.8 min
 Avg. Velocity= 4.58 fps, Avg. Travel Time= 0.8 min

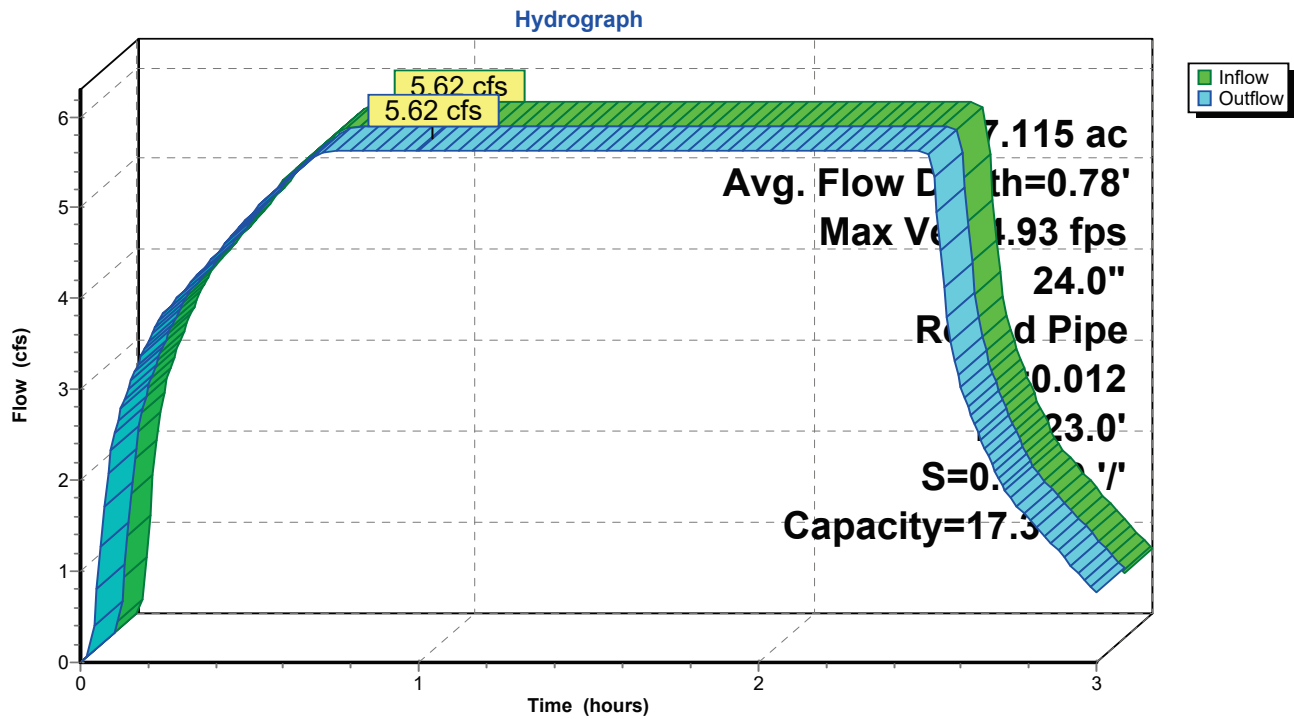
Peak Storage= 254 cf @ 1.00 hrs
 Average Depth at Peak Storage= 0.78' , Surface Width= 1.95'
 Bank-Full Depth= 2.00' Flow Area= 3.1 sf, Capacity= 17.37 cfs

24.0" Round Pipe
 n= 0.012 Steel, smooth
 Length= 223.0' Slope= 0.0050 '/'
 Inlet Invert= 746.00', Outlet Invert= 744.88'



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Reach R21: Pipe I21 to I15



340656 - Rantoul Transfer Station - PropL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

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Summary for Reach R31: Pipe I31 to I21

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 5.458 ac, 1.12% Impervious, Inflow Depth > 1.76" for 50-yr event
 Inflow = 3.89 cfs @ 0.92 hrs, Volume= 0.799 af
 Outflow = 3.89 cfs @ 0.95 hrs, Volume= 0.798 af, Atten= 0%, Lag= 1.8 min
 Routed to Pond I21 : Inlet 2-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.03 fps, Min. Travel Time= 0.6 min

Avg. Velocity= 3.76 fps, Avg. Travel Time= 0.7 min

Peak Storage= 149 cf @ 0.94 hrs

Average Depth at Peak Storage= 0.81' , Surface Width= 1.50'

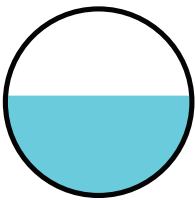
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 6.92 cfs

18.0" Round Pipe

n= 0.012 Steel, smooth

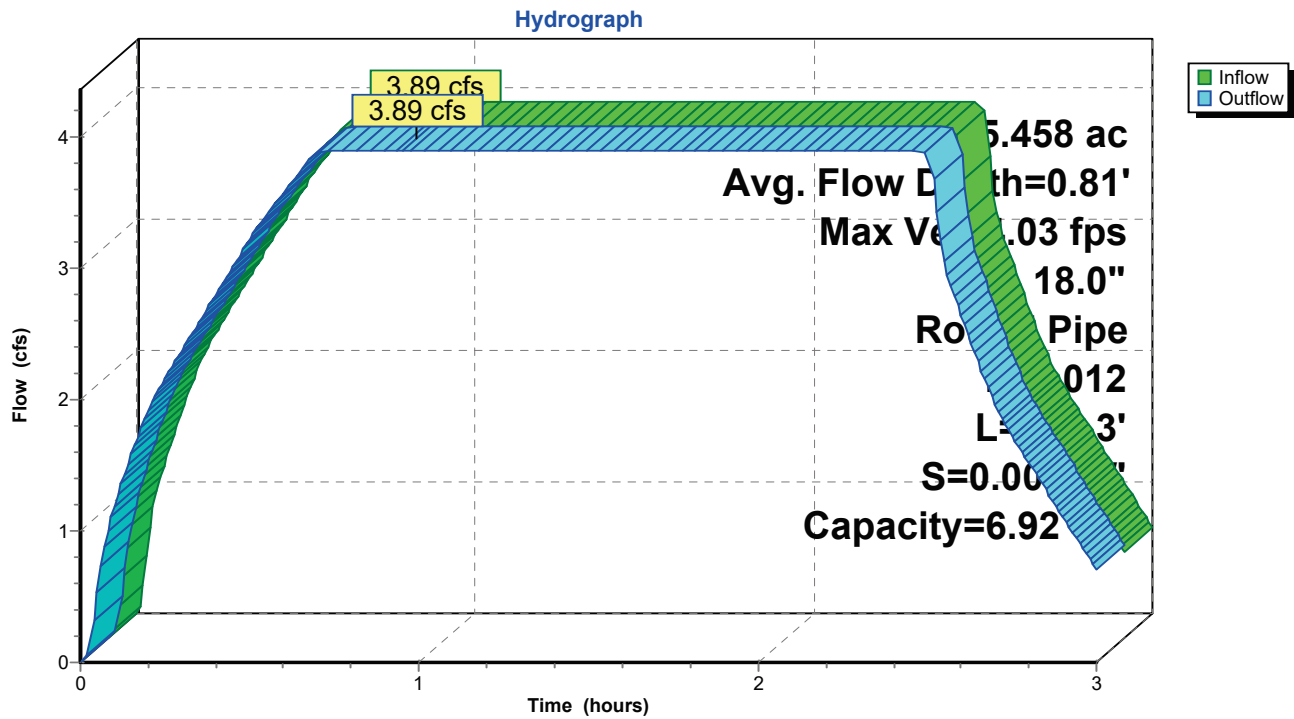
Length= 154.3' Slope= 0.0037 '/'

Inlet Invert= 747.75', Outlet Invert= 747.18'



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Reach R31: Pipe I31 to I21



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Summary for Reach R41: Pipe I41 to I31

[52] Hint: Inlet/Outlet conditions not evaluated

[80] Warning: Exceeded Pond I41 by 0.01' @ 2.98 hrs (0.00 cfs 0.000 af)

Inflow Area = 0.503 ac, 100.00% Impervious, Inflow Depth = 3.47" for 50-yr event
 Inflow = 0.70 cfs @ 0.03 hrs, Volume= 0.146 af
 Outflow = 0.70 cfs @ 1.00 hrs, Volume= 0.146 af, Atten= 0%, Lag= 58.2 min
 Routed to Pond I21 : Inlet 2-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 2.44 fps, Min. Travel Time= 2.2 min

Avg. Velocity= 2.16 fps, Avg. Travel Time= 2.5 min

Peak Storage= 94 cf @ 1.00 hrs

Average Depth at Peak Storage= 0.40' , Surface Width= 0.98'

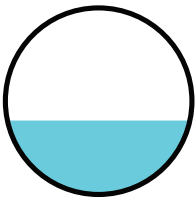
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 2.14 cfs

12.0" Round Pipe

n= 0.010 PVC, smooth interior

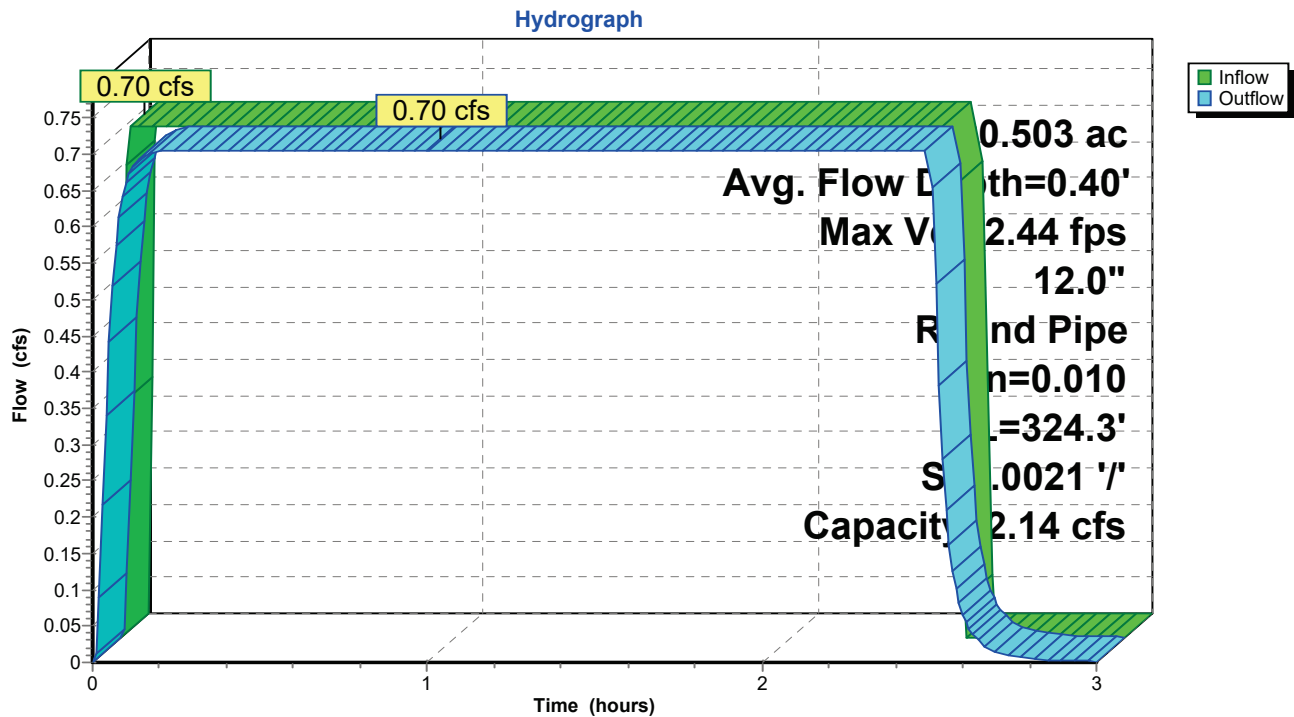
Length= 324.3' Slope= 0.0021 '/'

Inlet Invert= 748.86', Outlet Invert= 748.17'



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Reach R41: Pipe I41 to I31



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Summary for Reach R51: Pipe I51 to I31

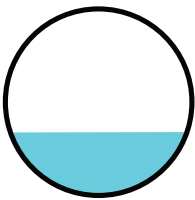
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 2.540 ac, 1.02% Impervious, Inflow Depth > 1.74" for 50-yr event
 Inflow = 1.79 cfs @ 0.78 hrs, Volume= 0.368 af
 Outflow = 1.79 cfs @ 0.78 hrs, Volume= 0.368 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond I31 : Manhole 3-1

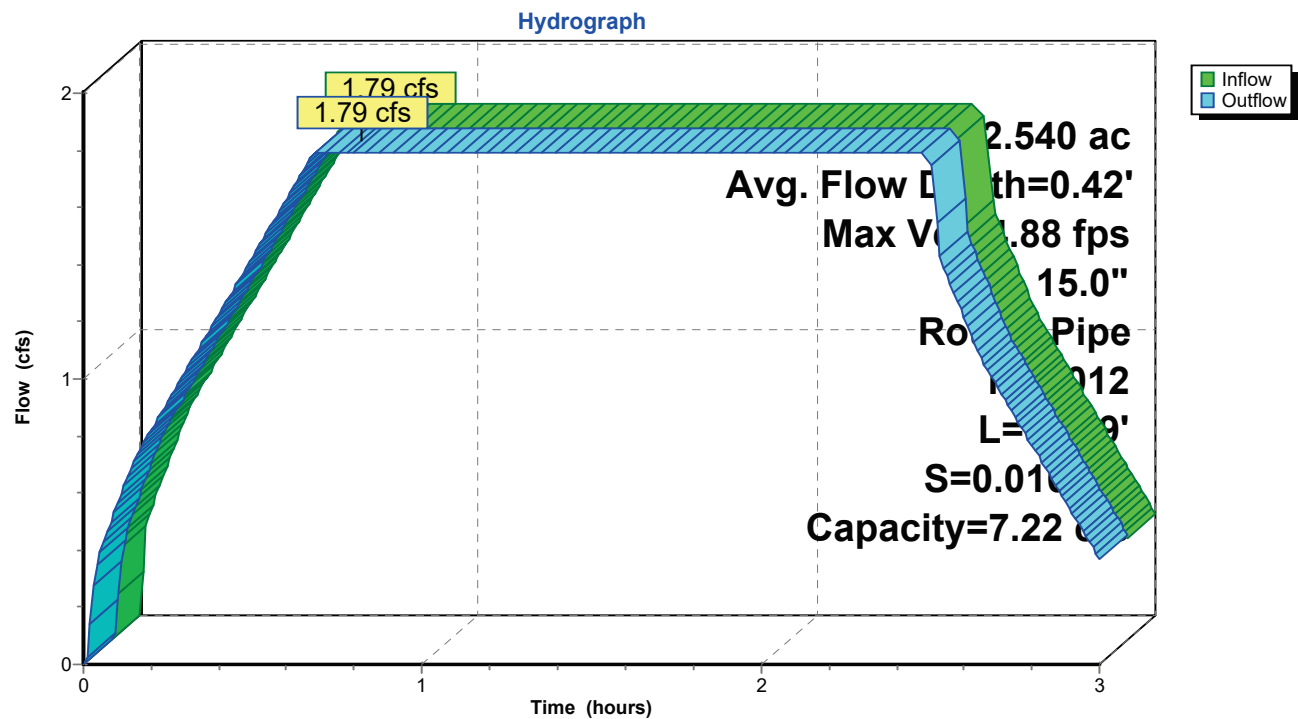
Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Max. Velocity= 4.88 fps, Min. Travel Time= 0.4 min
 Avg. Velocity= 4.55 fps, Avg. Travel Time= 0.5 min

Peak Storage= 45 cf @ 0.78 hrs
 Average Depth at Peak Storage= 0.42' , Surface Width= 1.18'
 Bank-Full Depth= 1.25' Flow Area= 1.2 sf, Capacity= 7.22 cfs

15.0" Round Pipe
 n= 0.012 Steel, smooth
 Length= 123.9' Slope= 0.0107 '/'
 Inlet Invert= 749.07', Outlet Invert= 747.75'



Reach R51: Pipe I51 to I31



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Summary for Reach R52: Pipe I52 to I51

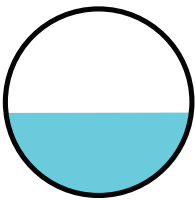
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 2.186 ac, 0.27% Impervious, Inflow Depth > 1.65" for 50-yr event
 Inflow = 1.47 cfs @ 0.78 hrs, Volume= 0.301 af
 Outflow = 1.47 cfs @ 0.78 hrs, Volume= 0.301 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond I51 : Inlet 5-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Max. Velocity= 4.36 fps, Min. Travel Time= 0.4 min
 Avg. Velocity= 4.05 fps, Avg. Travel Time= 0.5 min

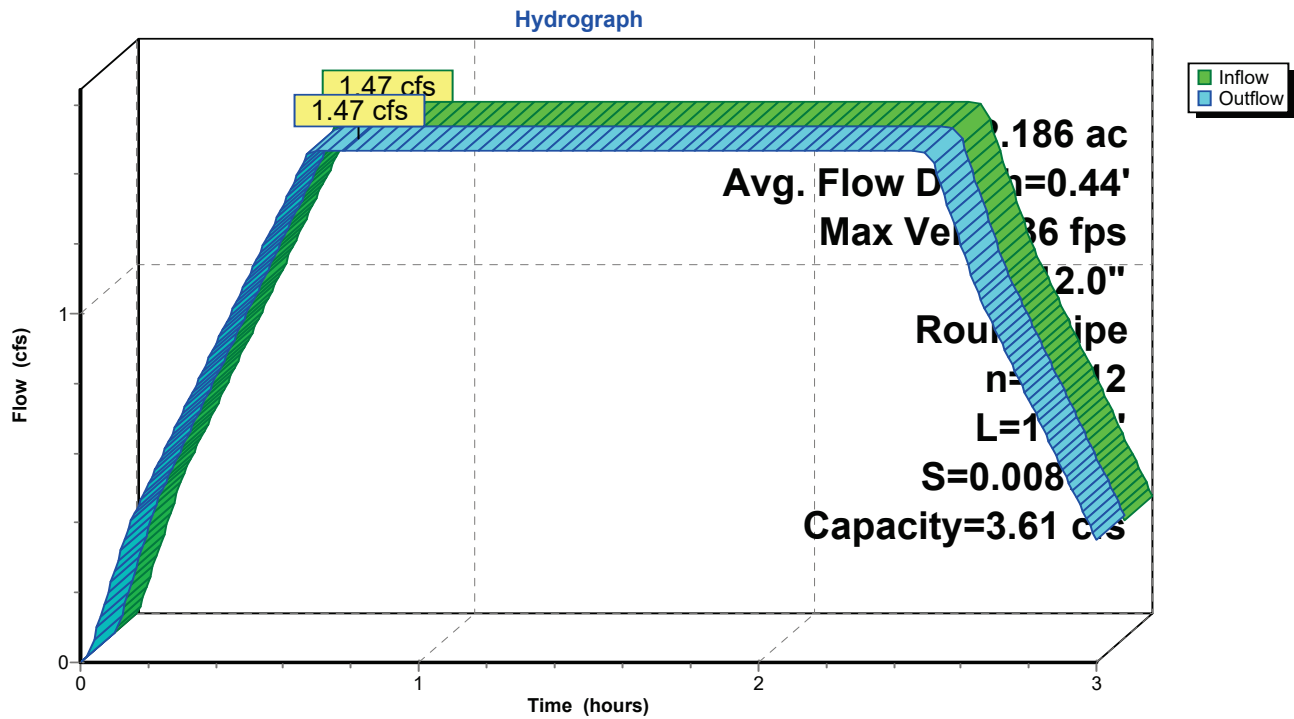
Peak Storage= 39 cf @ 0.78 hrs
 Average Depth at Peak Storage= 0.44' , Surface Width= 0.99'
 Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 3.61 cfs

12.0" Round Pipe
 n= 0.012 Steel, smooth
 Length= 114.4' Slope= 0.0087 '/'
 Inlet Invert= 750.10', Outlet Invert= 749.10'



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Reach R52: Pipe I52 to I51



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Summary for Reach R53: Pipe I53 to I52

[52] Hint: Inlet/Outlet conditions not evaluated

[80] Warning: Exceeded Pond I53 by 0.04' @ 2.64 hrs (0.01 cfs 0.000 af)

Inflow Area = 0.156 ac, 0.00% Impervious, Inflow Depth = 1.94" for 50-yr event
 Inflow = 0.12 cfs @ 0.23 hrs, Volume= 0.025 af
 Outflow = 0.12 cfs @ 0.33 hrs, Volume= 0.025 af, Atten= 0%, Lag= 6.0 min
 Routed to Pond I52 : Inlet 5-2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 1.73 fps, Min. Travel Time= 0.6 min

Avg. Velocity= 1.55 fps, Avg. Travel Time= 0.7 min

Peak Storage= 4 cf @ 0.33 hrs

Average Depth at Peak Storage= 0.19' , Surface Width= 0.49'

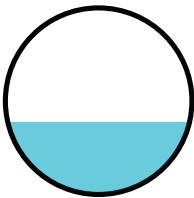
Bank-Full Depth= 0.50' Flow Area= 0.2 sf, Capacity= 0.38 cfs

6.0" Round Pipe

n= 0.010 PVC, smooth interior

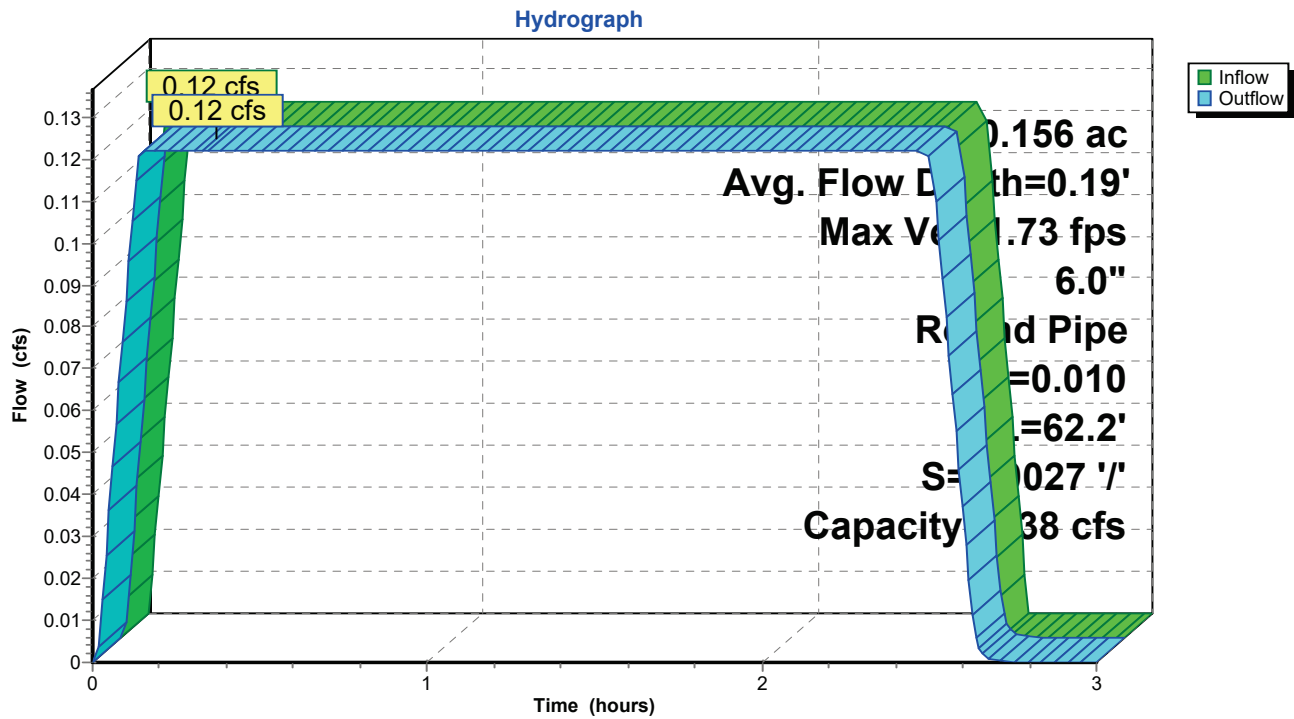
Length= 62.2' Slope= 0.0027 '/'

Inlet Invert= 750.43', Outlet Invert= 750.26'



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Reach R53: Pipe I53 to I52



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Summary for Reach R54: Pipe I54 to I63

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond I63 : Inlet 6-3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min

Avg. Velocity= 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs

Average Depth at Peak Storage= 0.00'

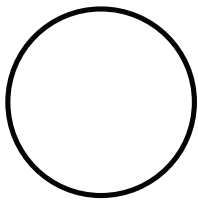
Bank-Full Depth= 0.50' Flow Area= 0.2 sf, Capacity= 0.57 cfs

6.0" Round Pipe

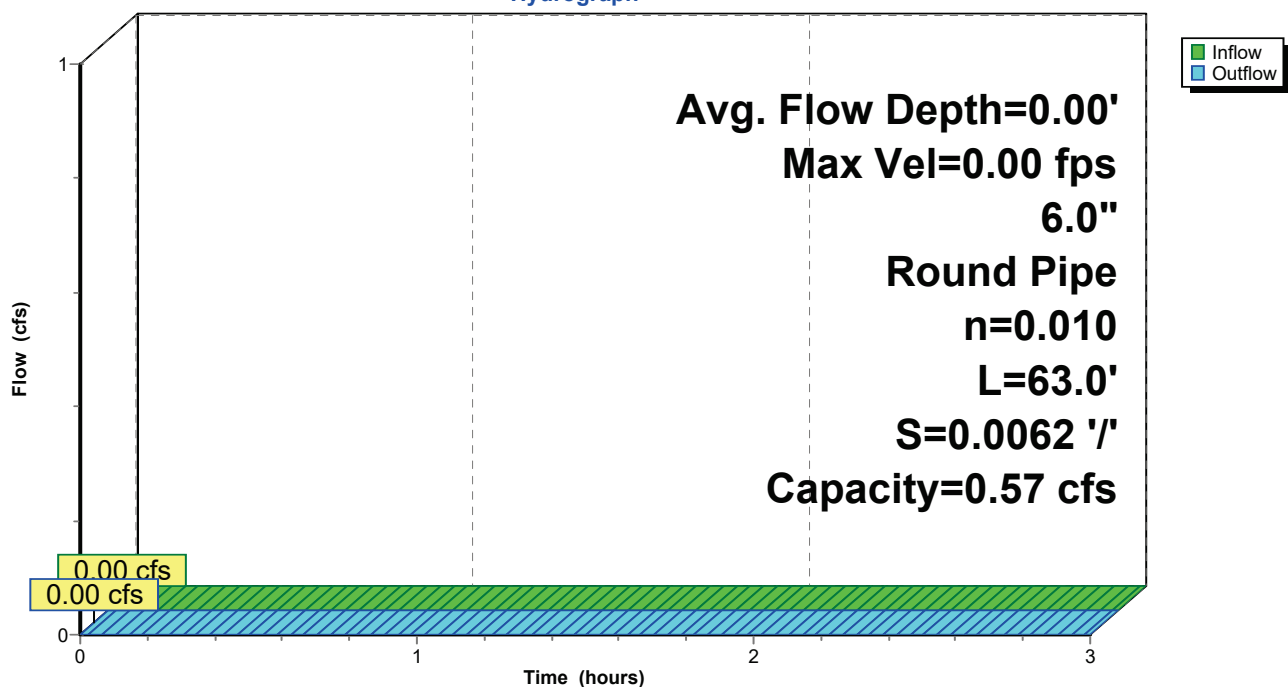
n= 0.010 PVC, smooth interior

Length= 63.0' Slope= 0.0062 1'

Inlet Invert= 750.30', Outlet Invert= 749.91'

**Reach R54: Pipe I54 to I63**

Hydrograph



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Summary for Reach R61: Pipe I61 to I31

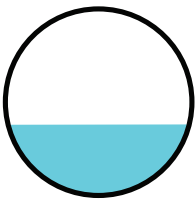
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 2.408 ac, 0.00% Impervious, Inflow Depth > 1.70" for 50-yr event
 Inflow = 1.66 cfs @ 0.91 hrs, Volume= 0.341 af
 Outflow = 1.66 cfs @ 0.94 hrs, Volume= 0.341 af, Atten= 0%, Lag= 1.8 min
 Routed to Pond I31 : Manhole 3-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Max. Velocity= 3.88 fps, Min. Travel Time= 0.6 min
 Avg. Velocity= 3.61 fps, Avg. Travel Time= 0.6 min

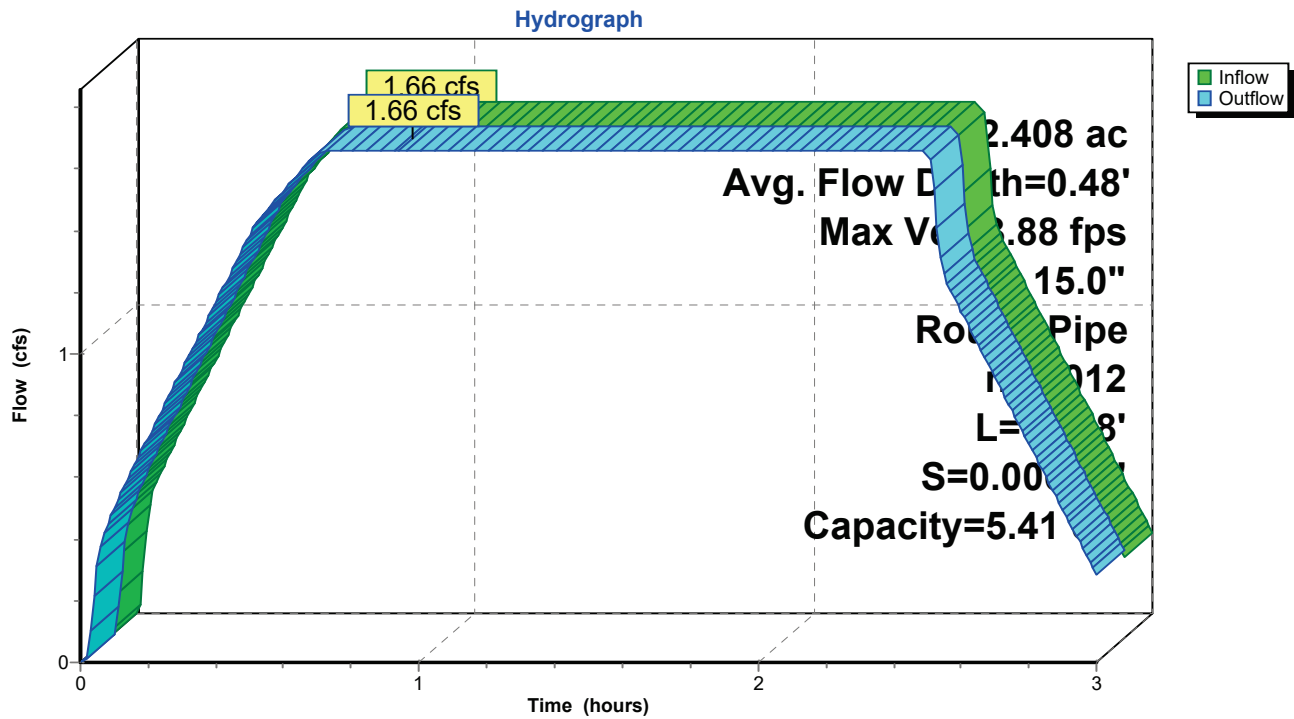
Peak Storage= 57 cf @ 0.94 hrs
 Average Depth at Peak Storage= 0.48' , Surface Width= 1.21'
 Bank-Full Depth= 1.25' Flow Area= 1.2 sf, Capacity= 5.41 cfs

15.0" Round Pipe
 n= 0.012 Steel, smooth
 Length= 133.8' Slope= 0.0060 '/'
 Inlet Invert= 748.55', Outlet Invert= 747.75'



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Reach R61: Pipe I61 to I31



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Summary for Reach R62: Pipe I62 to I61

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 1.749 ac, 0.00% Impervious, Inflow Depth > 1.70" for 50-yr event
 Inflow = 1.21 cfs @ 0.92 hrs, Volume= 0.247 af
 Outflow = 1.21 cfs @ 0.92 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond I61 : Manhole 6-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.56 fps, Min. Travel Time= 0.6 min

Avg. Velocity= 3.33 fps, Avg. Travel Time= 0.6 min

Peak Storage= 41 cf @ 0.92 hrs

Average Depth at Peak Storage= 0.45' , Surface Width= 0.99'

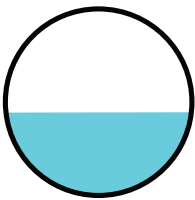
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 2.94 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

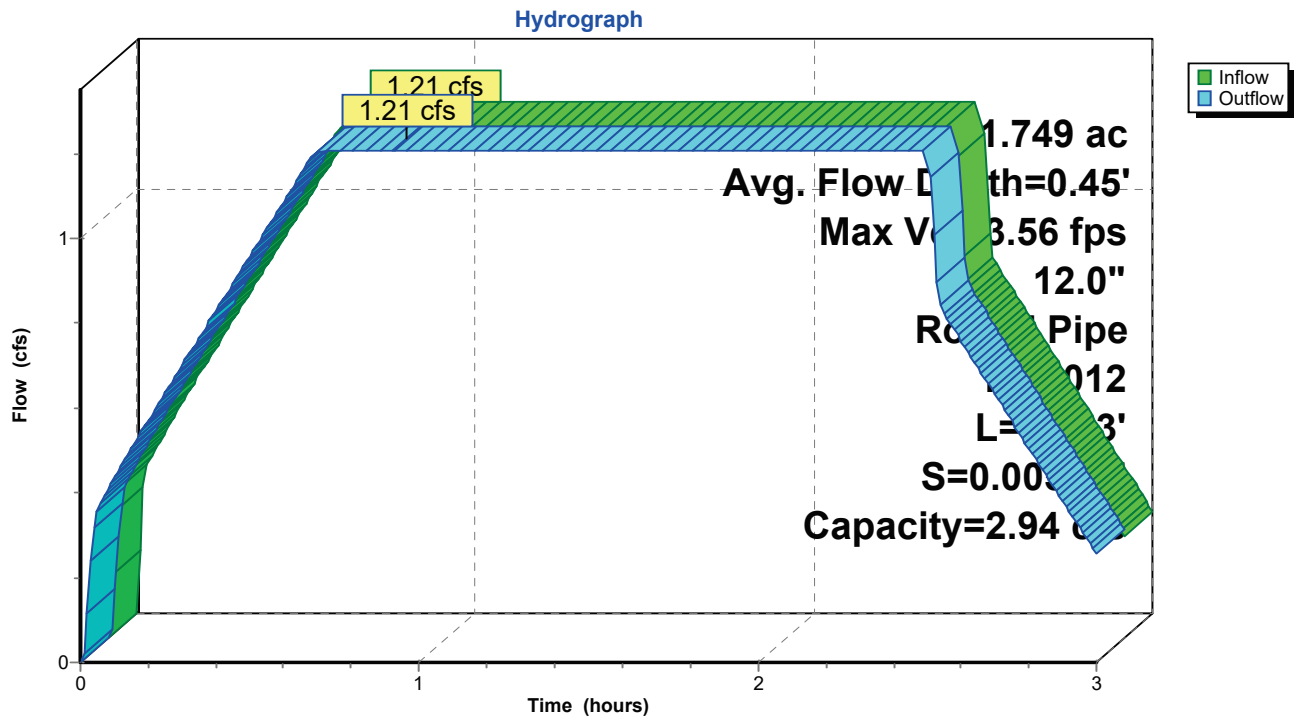
Length= 122.3' Slope= 0.0058 '/'

Inlet Invert= 749.32', Outlet Invert= 748.61'



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Reach R62: Pipe I62 to I61



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Summary for Reach R63: Pipe I63 to I62

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 1.364 ac, 0.00% Impervious, Inflow Depth > 1.56" for 50-yr event
 Inflow = 0.87 cfs @ 0.69 hrs, Volume= 0.177 af
 Outflow = 0.87 cfs @ 0.90 hrs, Volume= 0.177 af, Atten= 0%, Lag= 12.6 min
 Routed to Pond I62 : Inlet 6-2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.03 fps, Min. Travel Time= 0.6 min

Avg. Velocity= 2.81 fps, Avg. Travel Time= 0.7 min

Peak Storage= 33 cf @ 0.89 hrs

Average Depth at Peak Storage= 0.39' , Surface Width= 0.98'

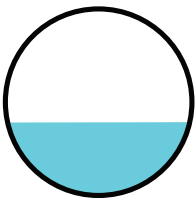
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 2.67 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

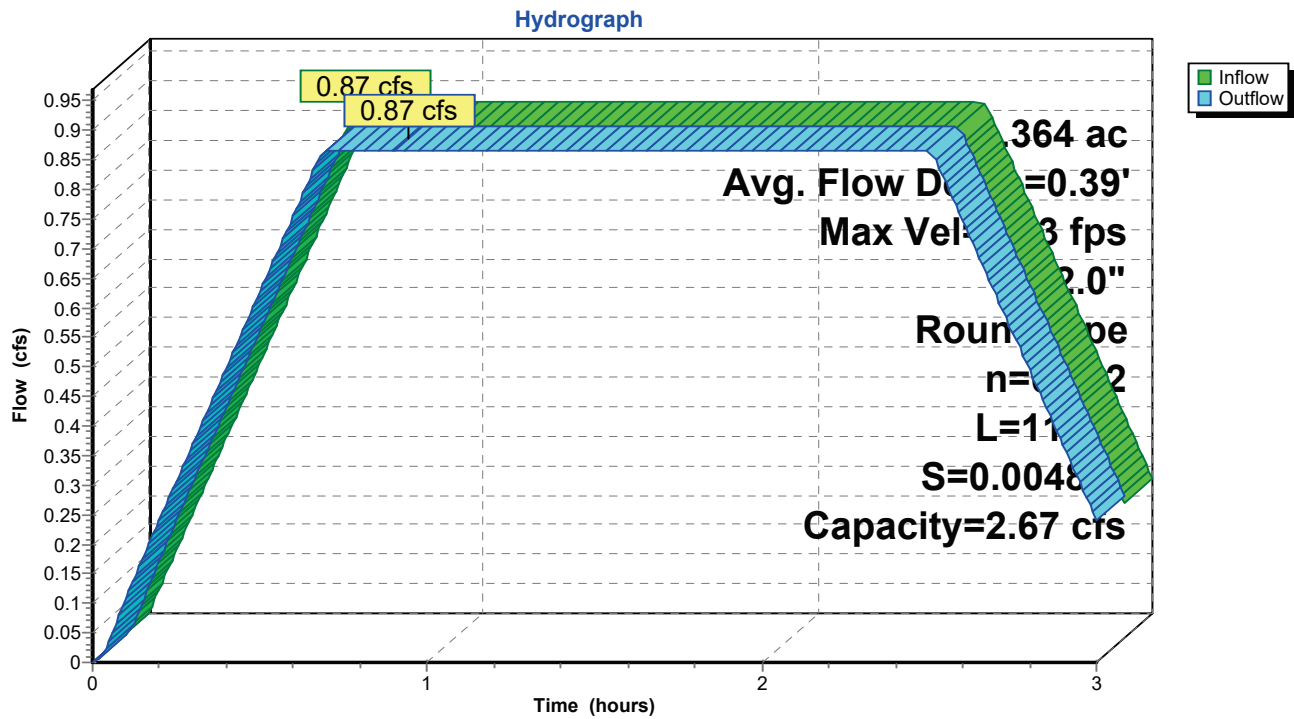
Length= 117.3' Slope= 0.0048 '/'

Inlet Invert= 749.91', Outlet Invert= 749.35'



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Reach R63: Pipe I63 to I62



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Summary for Reach R71: Pipe I71 to I15

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 2.152 ac, 49.07% Impervious, Inflow Depth > 2.53" for 50-yr event
 Inflow = 2.19 cfs @ 0.65 hrs, Volume= 0.453 af
 Outflow = 2.19 cfs @ 0.69 hrs, Volume= 0.453 af, Atten= 0%, Lag= 2.4 min
 Routed to Pond I15 : Inlet 1-5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.91 fps, Min. Travel Time= 1.0 min

Avg. Velocity= 4.40 fps, Avg. Travel Time= 1.2 min

Peak Storage= 137 cf @ 0.69 hrs

Average Depth at Peak Storage= 0.55' , Surface Width= 0.99'

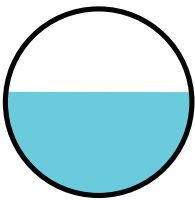
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 3.70 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

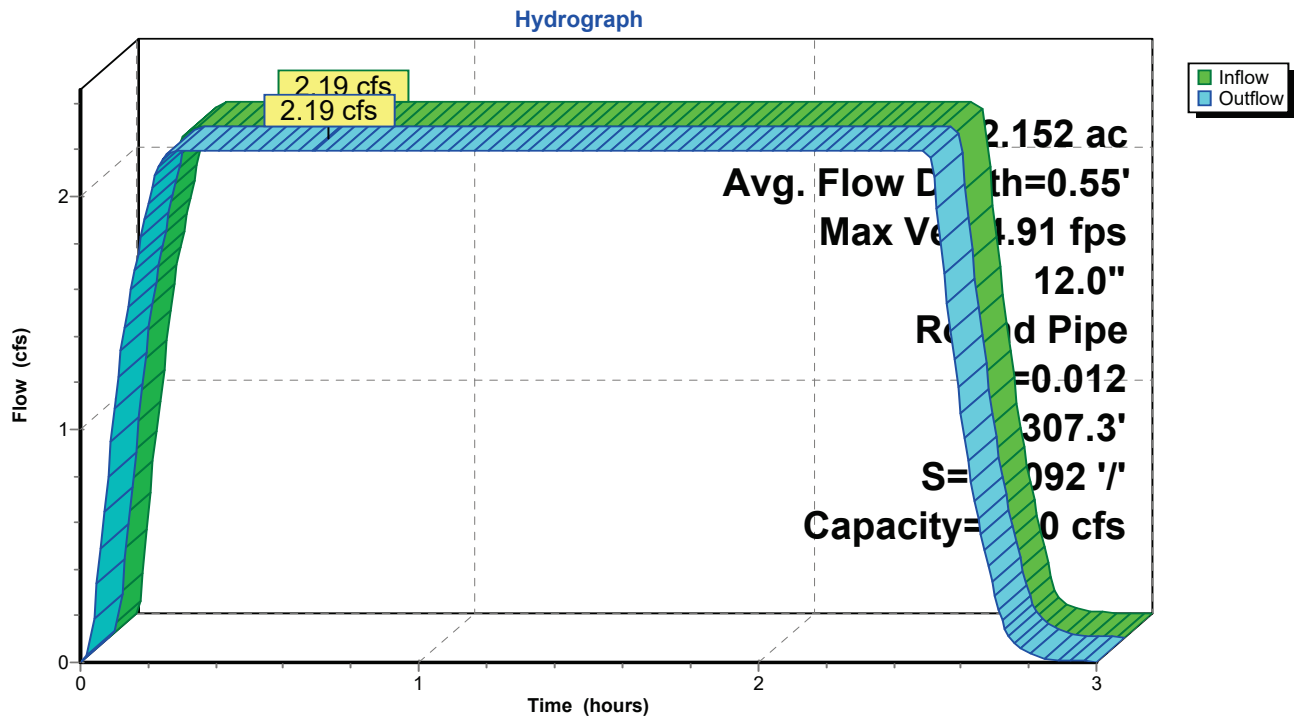
Length= 307.3' Slope= 0.0092 '/'

Inlet Invert= 747.78', Outlet Invert= 744.96'



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Reach R71: Pipe I71 to I15



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Summary for Reach R81: Pipe I81 to I71

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 0.792 ac, 48.74% Impervious, Inflow Depth = 2.33" for 50-yr event
 Inflow = 0.75 cfs @ 0.33 hrs, Volume= 0.154 af
 Outflow = 0.75 cfs @ 0.14 hrs, Volume= 0.154 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond I71 : Inlet 7-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.28 fps, Min. Travel Time= 0.2 min

Avg. Velocity= 3.77 fps, Avg. Travel Time= 0.3 min

Peak Storage= 11 cf @ 0.14 hrs

Average Depth at Peak Storage= 0.27' , Surface Width= 0.89'

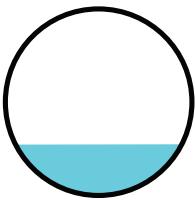
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 4.55 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

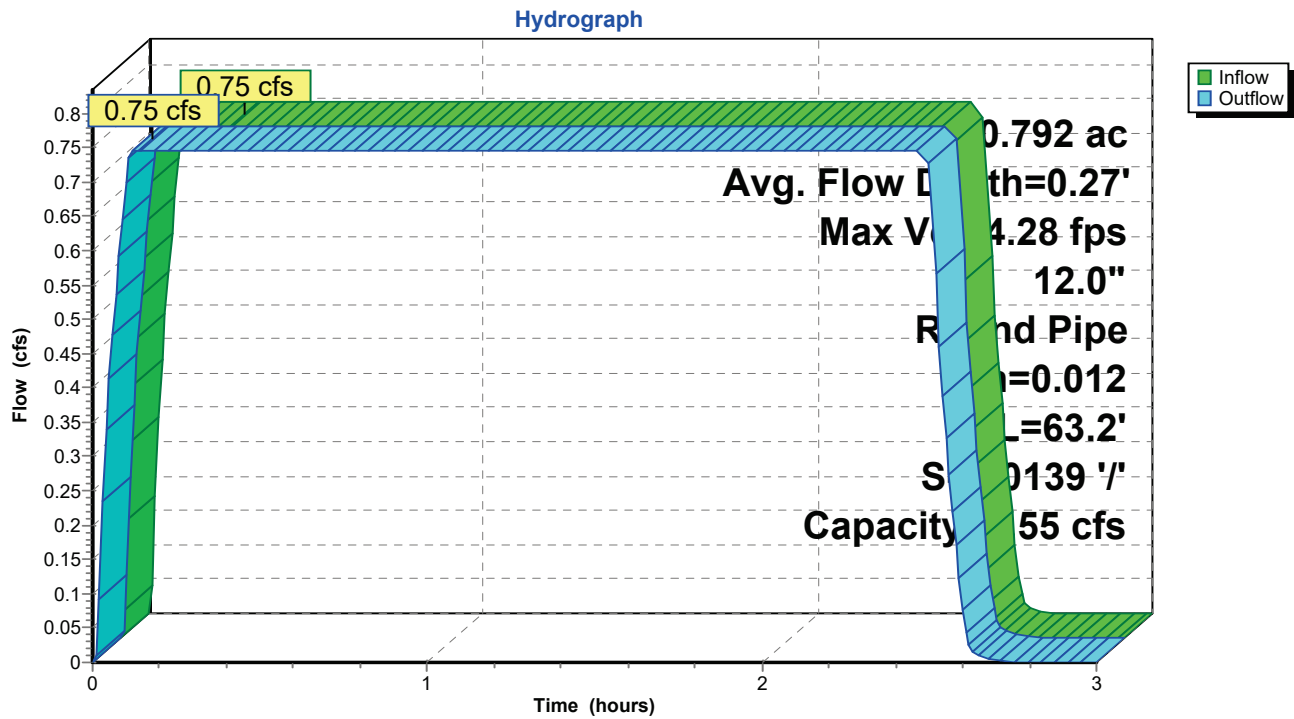
Length= 63.2' Slope= 0.0139 '/'

Inlet Invert= 748.66', Outlet Invert= 747.78'



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Reach R81: Pipe I81 to I71



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Summary for Reach R82: Pipe I82 to I81

[52] Hint: Inlet/Outlet conditions not evaluated

[80] Warning: Exceeded Pond I82 by 0.05' @ 2.61 hrs (0.01 cfs 0.000 af)

Inflow Area = 0.625 ac, 35.68% Impervious, Inflow Depth = 2.05" for 50-yr event
 Inflow = 0.52 cfs @ 0.18 hrs, Volume= 0.107 af
 Outflow = 0.52 cfs @ 0.29 hrs, Volume= 0.107 af, Atten= 0%, Lag= 6.6 min
 Routed to Pond I81 : Inlet 8-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.95 fps, Min. Travel Time= 0.6 min

Avg. Velocity = 3.56 fps, Avg. Travel Time= 0.6 min

Peak Storage= 18 cf @ 0.29 hrs

Average Depth at Peak Storage= 0.22' , Surface Width= 0.83'

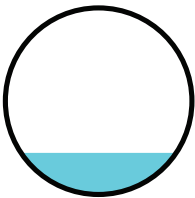
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 4.73 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

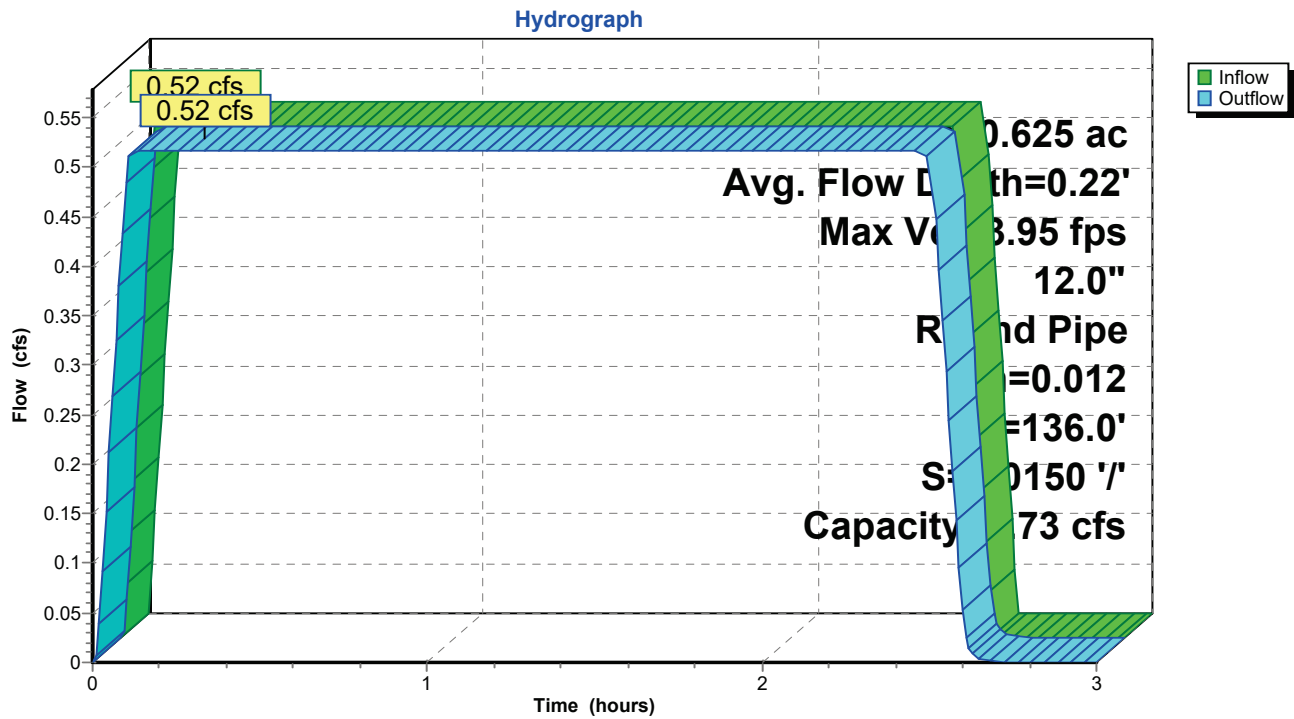
Length= 136.0' Slope= 0.0150 '/'

Inlet Invert= 750.74', Outlet Invert= 748.70'



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Reach R82: Pipe I82 to I81



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Summary for Reach R91: Pipe I91 to I71

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 0.640 ac, 25.31% Impervious, Inflow Depth > 2.32" for 50-yr event
 Inflow = 0.60 cfs @ 0.60 hrs, Volume= 0.124 af
 Outflow = 0.60 cfs @ 0.65 hrs, Volume= 0.124 af, Atten= 0%, Lag= 3.0 min
 Routed to Pond I71 : Inlet 7-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.08 fps, Min. Travel Time= 1.1 min

Avg. Velocity= 2.76 fps, Avg. Travel Time= 1.2 min

Peak Storage= 40 cf @ 0.65 hrs

Average Depth at Peak Storage= 0.30' , Surface Width= 0.91'

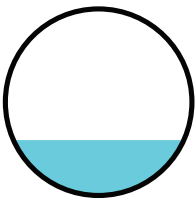
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 3.14 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

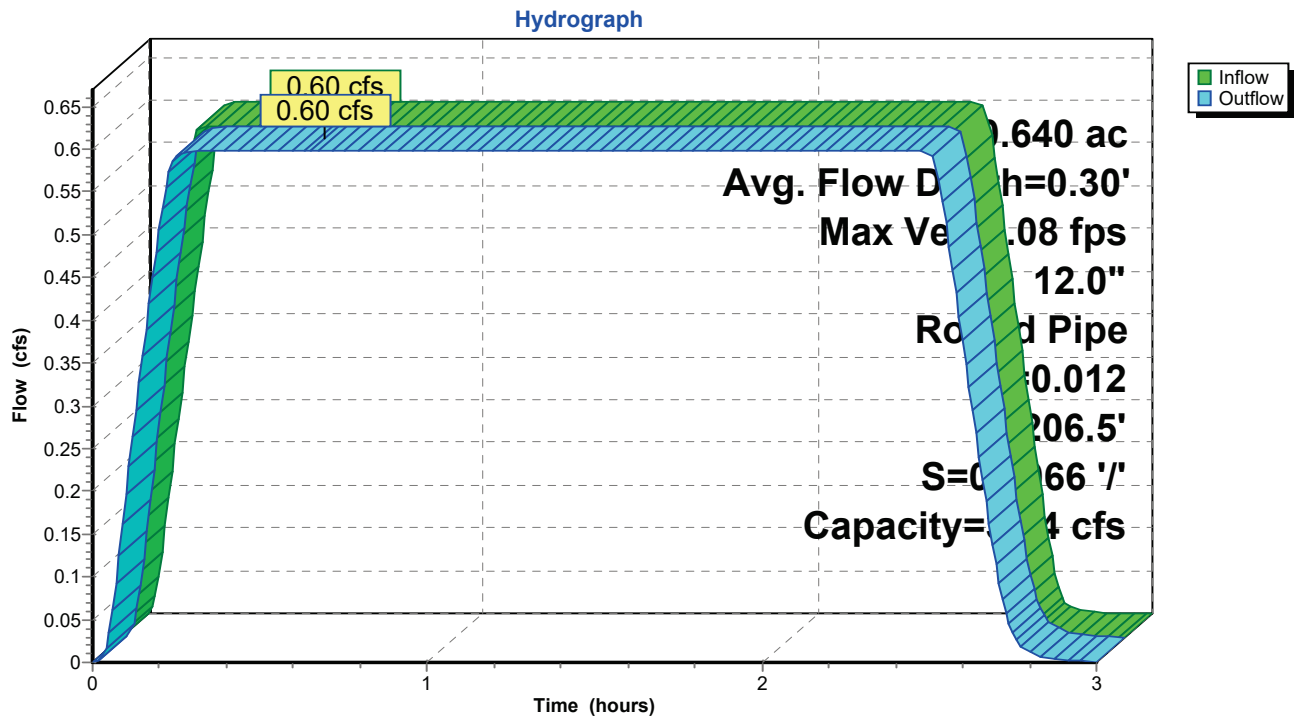
Length= 206.5' Slope= 0.0066 '/'

Inlet Invert= 750.30', Outlet Invert= 748.93'



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Reach R91: Pipe I91 to I71



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Summary for Reach R92: Pipe I92 to I91

[52] Hint: Inlet/Outlet conditions not evaluated

[80] Warning: Exceeded Pond I92 by 0.07' @ 2.72 hrs (0.02 cfs 0.000 af)

Inflow Area = 0.531 ac, 21.66% Impervious, Inflow Depth = 2.30" for 50-yr event
 Inflow = 0.49 cfs @ 0.31 hrs, Volume= 0.102 af
 Outflow = 0.49 cfs @ 0.49 hrs, Volume= 0.102 af, Atten= 0%, Lag= 10.8 min
 Routed to Pond I91 : Inlet 9-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 2.95 fps, Min. Travel Time= 0.8 min

Avg. Velocity= 2.62 fps, Avg. Travel Time= 0.9 min

Peak Storage= 22 cf @ 0.48 hrs

Average Depth at Peak Storage= 0.27' , Surface Width= 0.88'

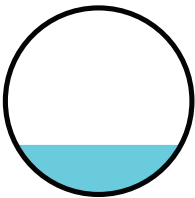
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 3.20 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

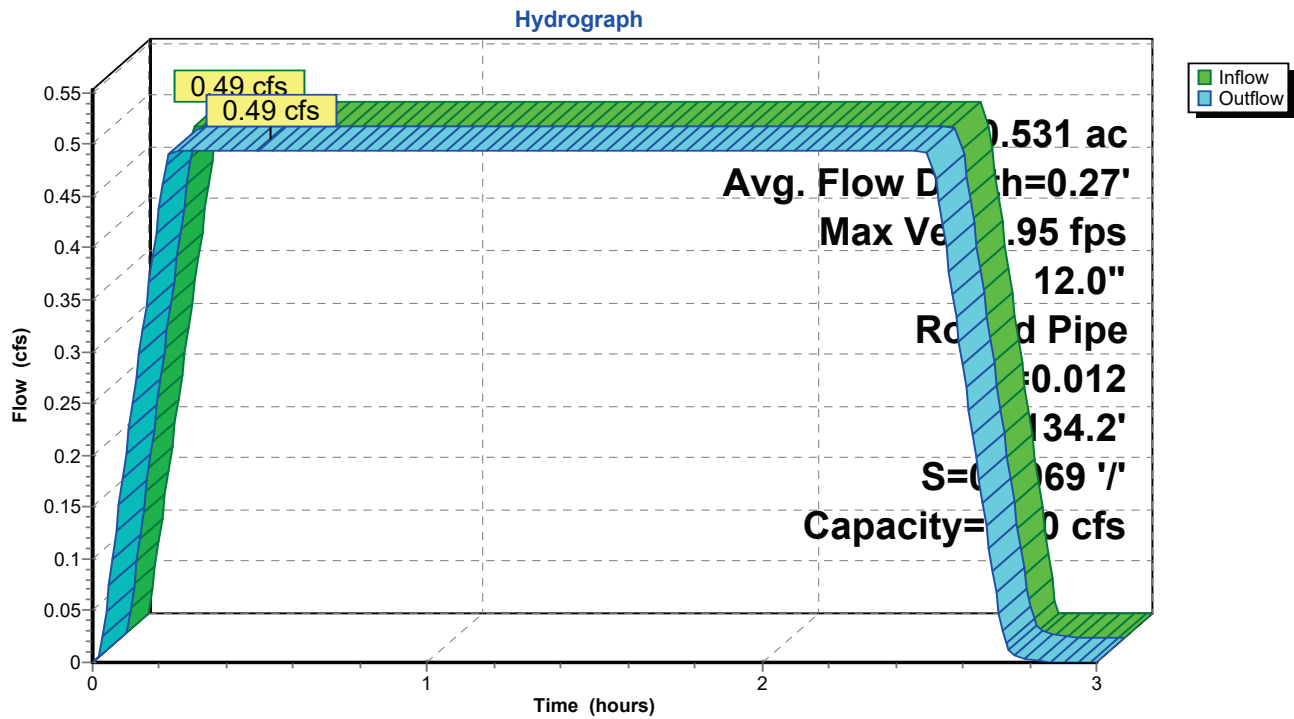
Length= 134.2' Slope= 0.0069 '/'

Inlet Invert= 751.22', Outlet Invert= 750.30'



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Reach R92: Pipe I92 to I91



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Summary for Pond I14: Inlet 1-4

[57] Hint: Peaked at 742.77' (Flood elevation advised)

[62] Hint: Exceeded Reach R18 OUTLET depth by 5.41' @ 0.93 hrs

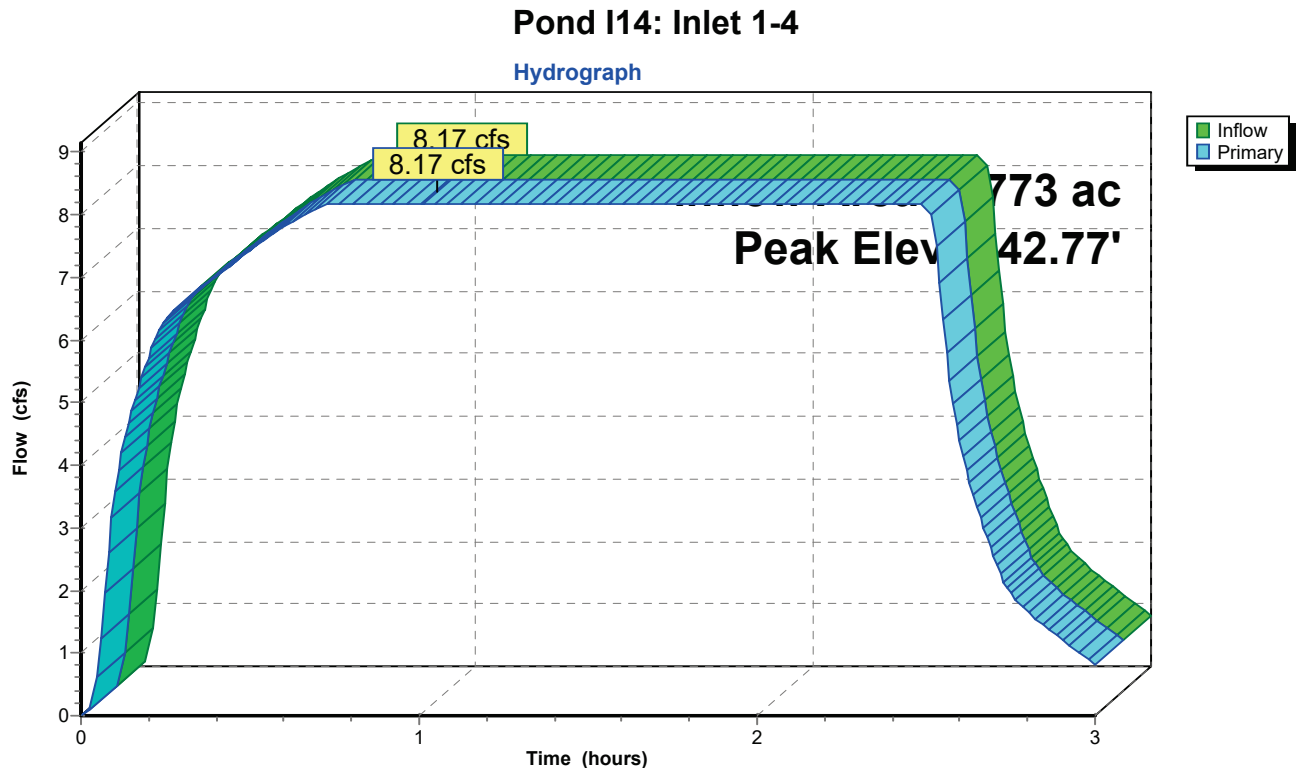
Inflow Area = 9.773 ac, 23.45% Impervious, Inflow Depth > 2.06" for 50-yr event
 Inflow = 8.17 cfs @ 1.00 hrs, Volume= 1.679 af
 Outflow = 8.17 cfs @ 1.01 hrs, Volume= 1.679 af, Atten= 0%, Lag= 0.6 min
 Primary = 8.17 cfs @ 1.01 hrs, Volume= 1.679 af
 Routed to Reach R14 : Pipe I14 to Pond

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 742.77' @ 0.94 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	741.84'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	741.84'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	743.84'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=8.17 cfs @ 1.01 hrs HW=742.77' TW=742.42' (Dynamic Tailwater)

- 1=Orifice/Grate (Orifice Controls 4.08 cfs @ 2.86 fps)
- 2=Orifice/Grate (Orifice Controls 4.08 cfs @ 2.86 fps)
- 3=Orifice/Grate (Controls 0.00 cfs)



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Summary for Pond I15: Inlet 1-5

[57] Hint: Peaked at 745.86' (Flood elevation advised)

[62] Hint: Exceeded Reach R21 OUTLET depth by 0.21' @ 0.27 hrs

[62] Hint: Exceeded Reach R71 OUTLET depth by 0.34' @ 2.52 hrs

Inflow Area = 9.638 ac, 22.40% Impervious, Inflow Depth > 2.04" for 50-yr event
 Inflow = 7.98 cfs @ 1.00 hrs, Volume= 1.641 af
 Outflow = 7.98 cfs @ 1.00 hrs, Volume= 1.641 af, Atten= 0%, Lag= 0.0 min
 Primary = 7.98 cfs @ 1.00 hrs, Volume= 1.641 af
 Routed to Reach R15 : Pipe I15 to I18

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 745.86' @ 0.93 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	744.87'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	744.96'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	744.96'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=7.98 cfs @ 1.00 hrs HW=745.86' TW=745.65' (Dynamic Tailwater)

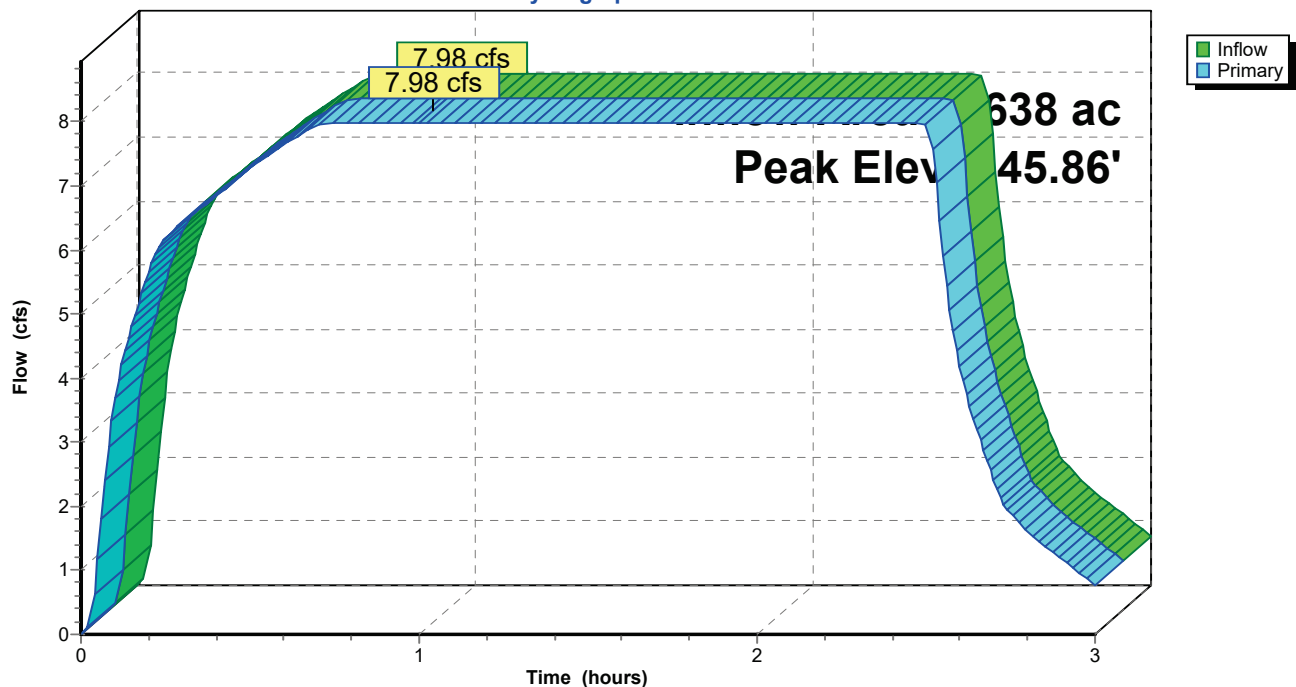
1=Orifice/Grate (Orifice Controls 3.38 cfs @ 2.19 fps)

2=Orifice/Grate (Orifice Controls 1.62 cfs @ 2.19 fps)

3=Orifice/Grate (Orifice Controls 2.98 cfs @ 2.19 fps)

Pond I15: Inlet 1-5

Hydrograph



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Summary for Pond I16: Inlet 1-6

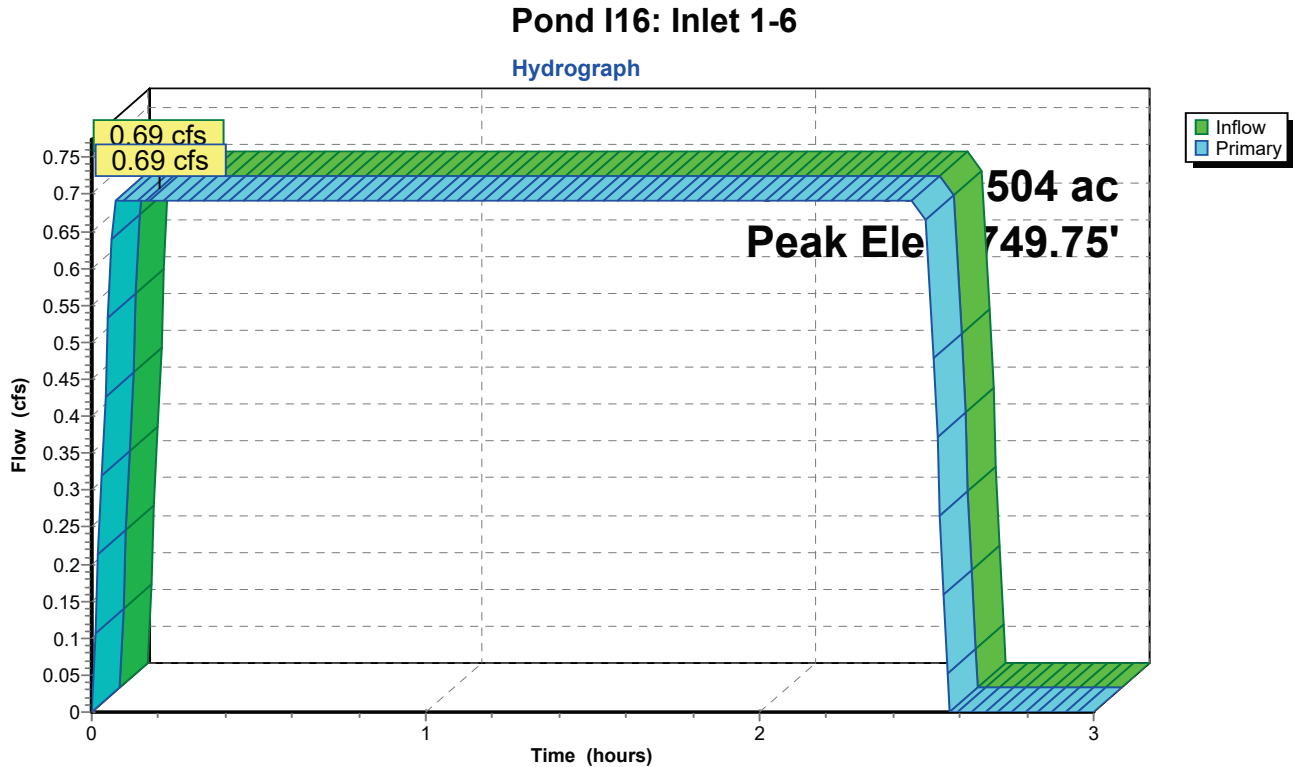
[57] Hint: Peaked at 749.75' (Flood elevation advised)

Inflow Area = 0.504 ac, 97.62% Impervious, Inflow Depth = 3.40" for 50-yr event
 Inflow = 0.69 cfs @ 0.07 hrs, Volume= 0.143 af
 Outflow = 0.69 cfs @ 0.16 hrs, Volume= 0.143 af, Atten= 0%, Lag= 5.4 min
 Primary = 0.69 cfs @ 0.16 hrs, Volume= 0.143 af
 Routed to Reach R16 : Pipe I16 to I21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 749.75' @ 0.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	749.30'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.69 cfs @ 0.16 hrs HW=749.75' TW=749.58' (Dynamic Tailwater)
 ↑ **1=Orifice/Grate** (Orifice Controls 0.69 cfs @ 1.99 fps)



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Summary for Pond I17: Trench Drain 1-7

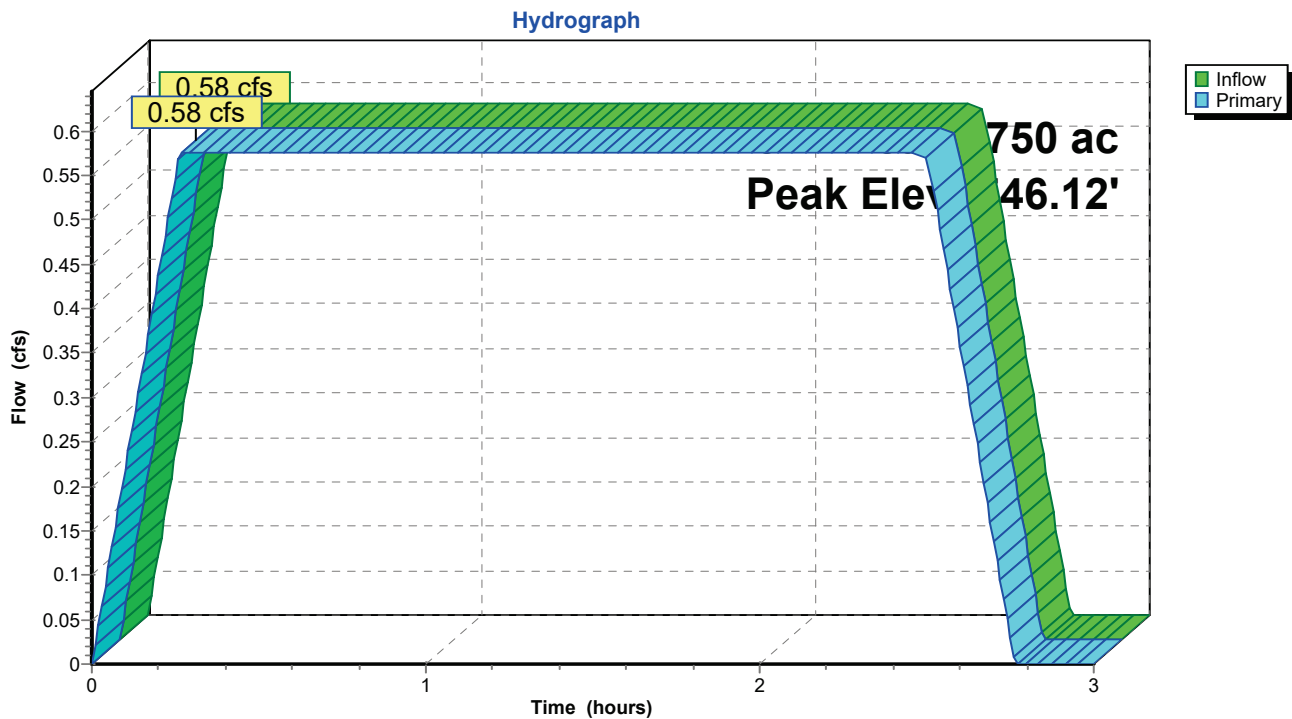
[57] Hint: Peaked at 746.12' (Flood elevation advised)

Inflow Area = 0.750 ac, 33.20% Impervious, Inflow Depth = 1.90" for 50-yr event
 Inflow = 0.58 cfs @ 0.27 hrs, Volume= 0.119 af
 Outflow = 0.58 cfs @ 0.27 hrs, Volume= 0.119 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.58 cfs @ 0.27 hrs, Volume= 0.119 af
 Routed to Reach R17 : Pipe I17 to Pond

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 746.12' @ 0.27 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	745.50'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.58 cfs @ 0.27 hrs HW=746.12' TW=745.73' (Dynamic Tailwater)
 ↑ **1=Orifice/Grate** (Orifice Controls 0.58 cfs @ 2.93 fps)

Pond I17: Trench Drain 1-7

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Summary for Pond I18: Catch Basin 1-8

[57] Hint: Peaked at 744.27' (Flood elevation advised)

[62] Hint: Exceeded Reach R15 OUTLET depth by 0.13' @ 0.94 hrs

[62] Hint: Exceeded Reach R19 OUTLET depth by 0.81' @ 2.52 hrs

Inflow Area = 9.773 ac, 23.45% Impervious, Inflow Depth > 2.06" for 50-yr event
 Inflow = 8.17 cfs @ 1.00 hrs, Volume= 1.679 af
 Outflow = 8.17 cfs @ 1.00 hrs, Volume= 1.679 af, Atten= 0%, Lag= 0.0 min
 Primary = 8.17 cfs @ 1.00 hrs, Volume= 1.679 af
 Routed to Reach R18 : Pipe I18 to I14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 744.27' @ 0.94 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	743.36'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	743.36'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

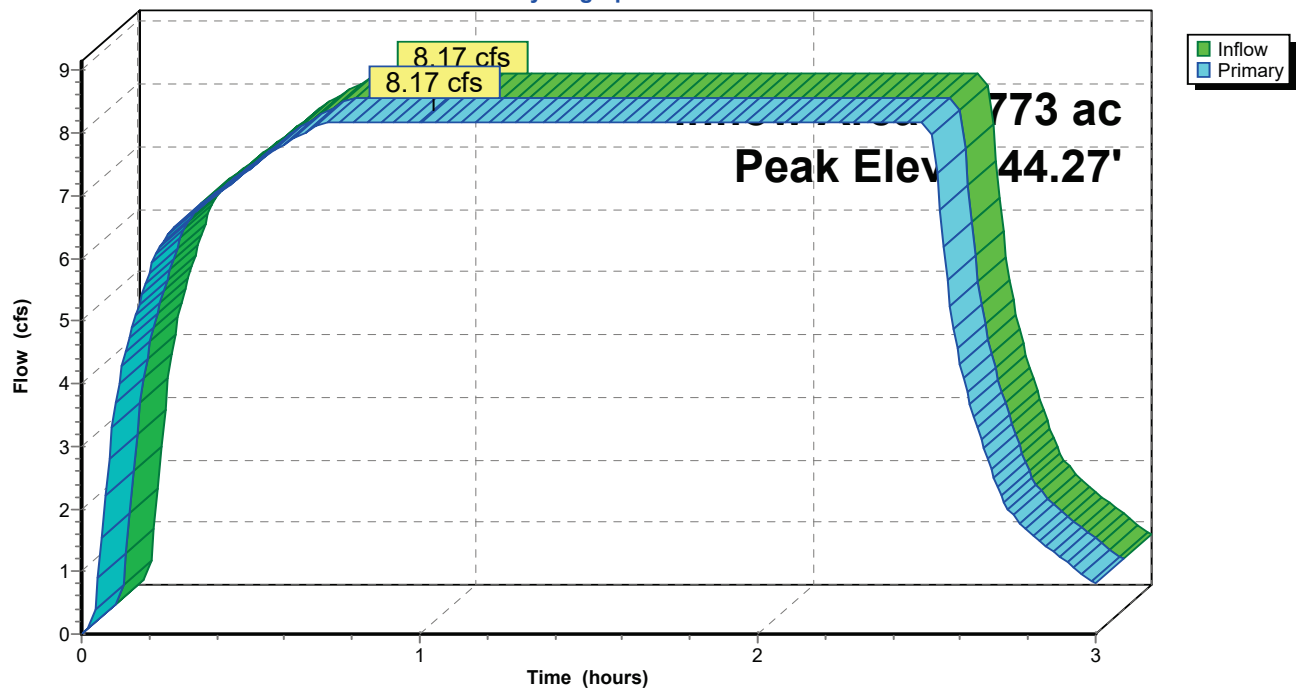
Primary OutFlow Max=8.17 cfs @ 1.00 hrs HW=744.27' TW=743.90' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 4.08 cfs @ 2.94 fps)

2=Orifice/Grate (Orifice Controls 4.08 cfs @ 2.94 fps)

Pond I18: Catch Basin 1-8

Hydrograph



340656 - Rantoul Transfer Station - PropL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

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Summary for Pond I19: Inlet 1-9

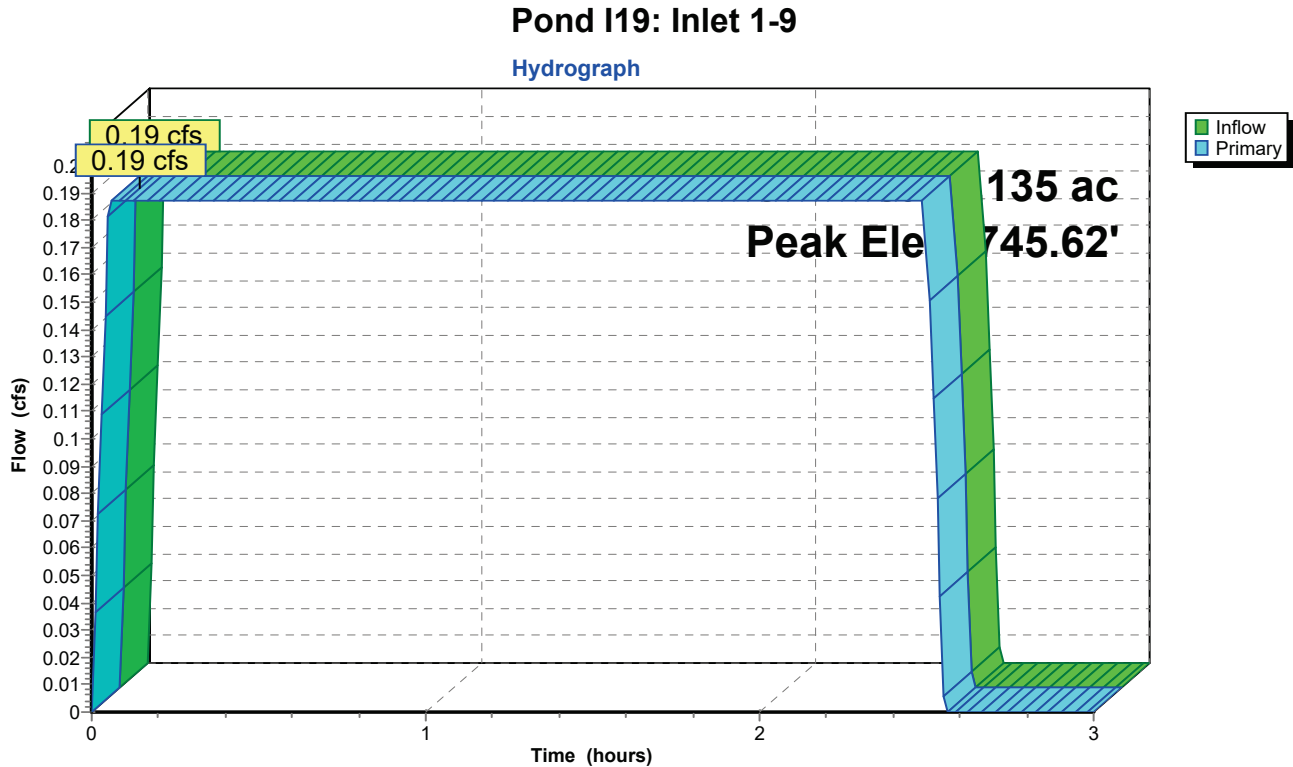
[57] Hint: Peaked at 745.62' (Flood elevation advised)

Inflow Area = 0.135 ac, 98.52% Impervious, Inflow Depth = 3.44" for 50-yr event
 Inflow = 0.19 cfs @ 0.06 hrs, Volume= 0.039 af
 Outflow = 0.19 cfs @ 0.10 hrs, Volume= 0.039 af, Atten= 0%, Lag= 2.4 min
 Primary = 0.19 cfs @ 0.10 hrs, Volume= 0.039 af
 Routed to Reach R19 : Pipe I19 to I14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 745.62' @ 0.06 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	745.41'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.19 cfs @ 0.10 hrs HW=745.62' TW=745.51' (Dynamic Tailwater)
 ↑ **1=Orifice/Grate** (Orifice Controls 0.19 cfs @ 1.56 fps)



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Summary for Pond I21: Inlet 2-1

[57] Hint: Peaked at 748.13' (Flood elevation advised)

[62] Hint: Exceeded Reach R31 OUTLET depth by 0.19' @ 0.12 hrs

Inflow Area = 7.115 ac, 15.50% Impervious, Inflow Depth > 1.95" for 50-yr event
 Inflow = 5.62 cfs @ 0.99 hrs, Volume= 1.156 af
 Outflow = 5.62 cfs @ 0.99 hrs, Volume= 1.156 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.62 cfs @ 0.99 hrs, Volume= 1.156 af
 Routed to Reach R21 : Pipe I21 to I15

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 748.13' @ 0.90 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	747.10'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	748.18'	18.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	748.17'	12.0" Vert. Orifice/Grate X 2.00 C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=5.62 cfs @ 0.99 hrs HW=748.13' TW=746.78' (Dynamic Tailwater)

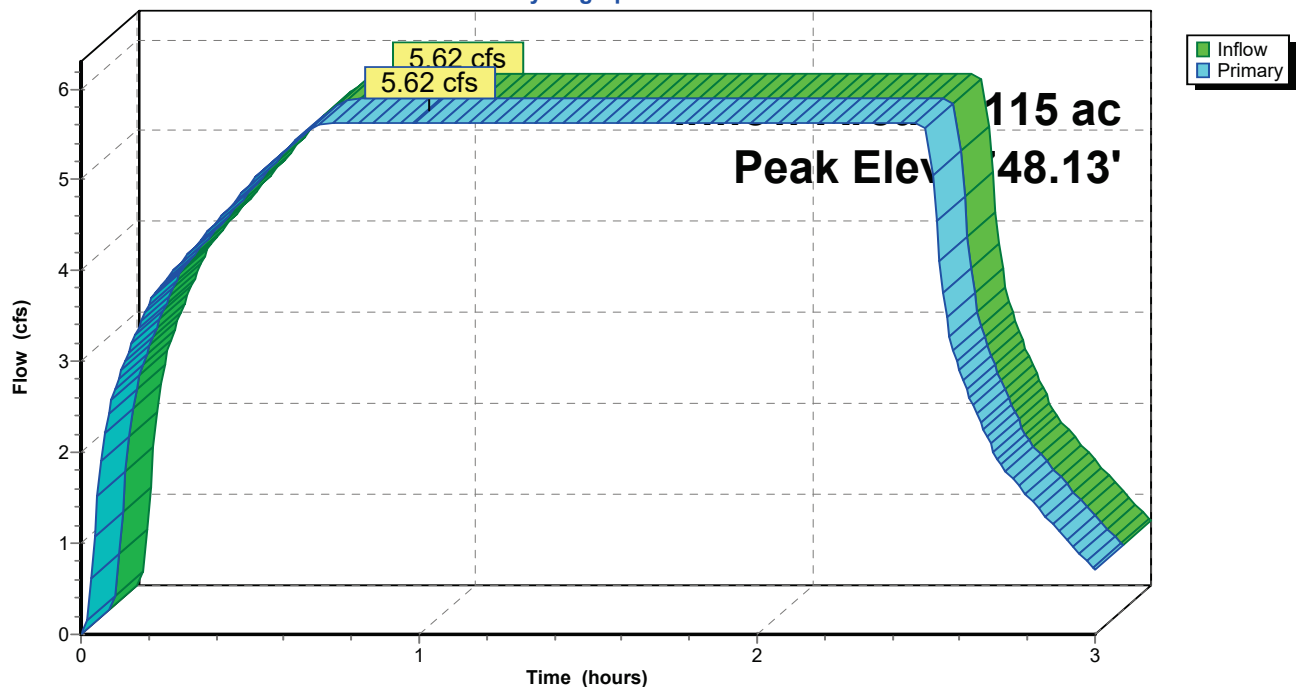
1=Orifice/Grate (Orifice Controls 5.62 cfs @ 3.45 fps)

2=Orifice/Grate (Controls 0.00 cfs)

3=Orifice/Grate (Controls 0.00 cfs)

Pond I21: Inlet 2-1

Hydrograph



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Summary for Pond I31: Manhole 3-1

[57] Hint: Peaked at 748.63' (Flood elevation advised)

[62] Hint: Exceeded Reach R51 OUTLET depth by 0.47' @ 2.52 hrs

[62] Hint: Exceeded Reach R61 OUTLET depth by 0.41' @ 2.52 hrs

Inflow Area = 5.458 ac, 1.12% Impervious, Inflow Depth > 1.76" for 50-yr event
 Inflow = 3.89 cfs @ 0.92 hrs, Volume= 0.799 af
 Outflow = 3.89 cfs @ 0.92 hrs, Volume= 0.799 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.89 cfs @ 0.92 hrs, Volume= 0.799 af
 Routed to Reach R31 : Pipe I31 to I21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 748.63' @ 0.92 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	747.75'	18.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	747.75'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	747.75'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=3.89 cfs @ 0.92 hrs HW=748.63' TW=748.56' (Dynamic Tailwater)

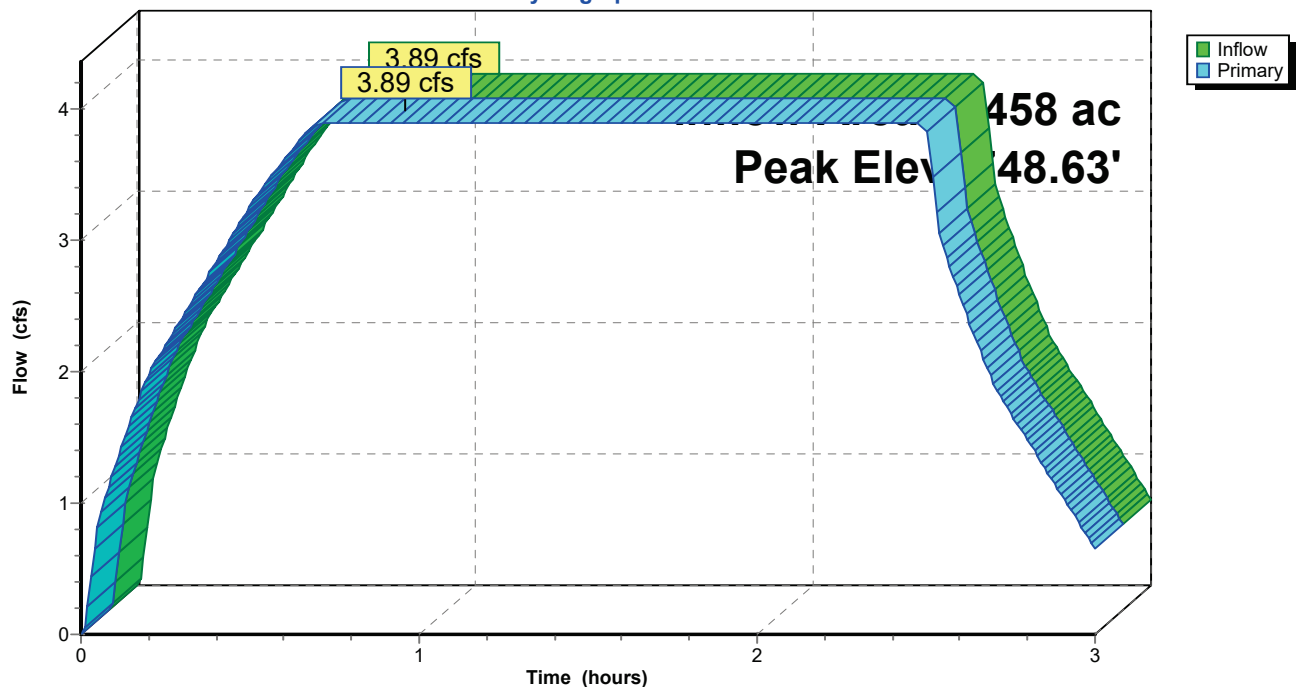
1=Orifice/Grate (Orifice Controls 1.43 cfs @ 1.33 fps)

2=Orifice/Grate (Orifice Controls 1.23 cfs @ 1.33 fps)

3=Orifice/Grate (Orifice Controls 1.23 cfs @ 1.33 fps)

Pond I31: Manhole 3-1

Hydrograph



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Summary for Pond I41: Inlet 4-1

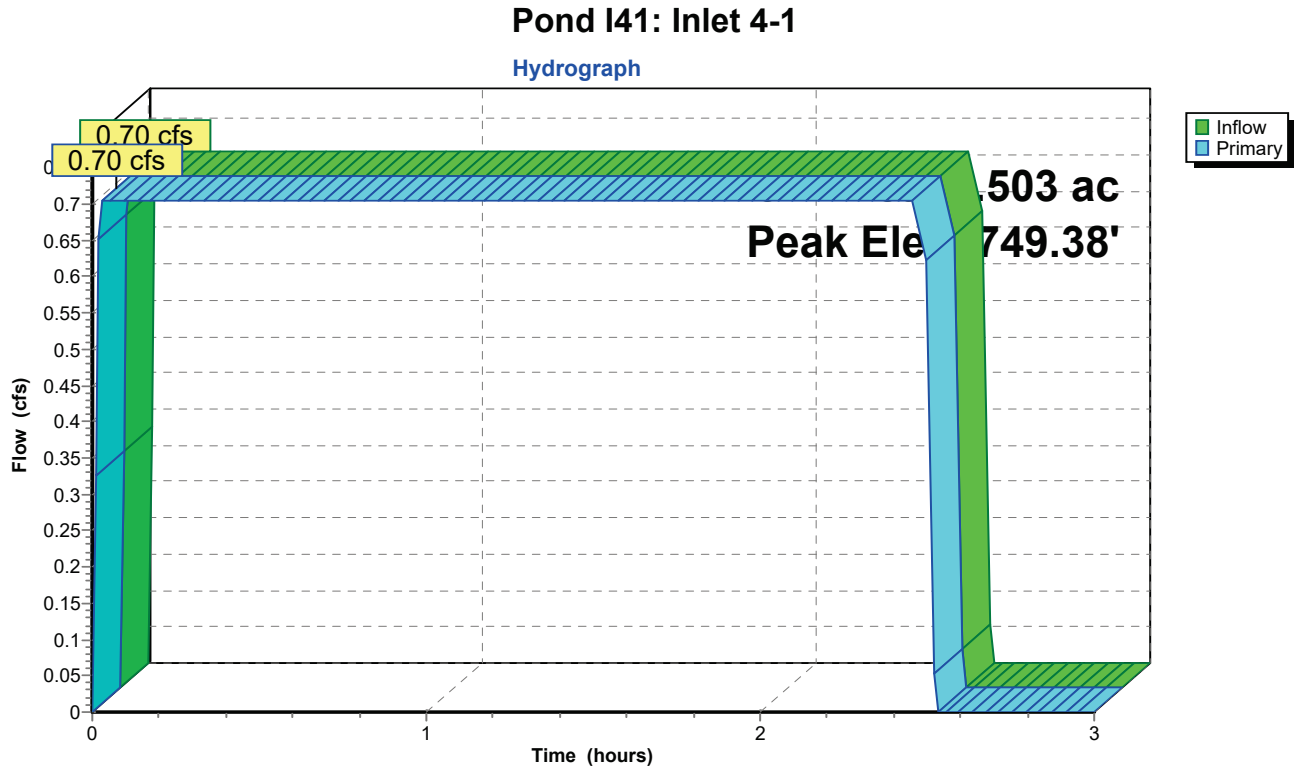
[57] Hint: Peaked at 749.38' (Flood elevation advised)

Inflow Area = 0.503 ac, 100.00% Impervious, Inflow Depth = 3.47" for 50-yr event
 Inflow = 0.70 cfs @ 0.03 hrs, Volume= 0.146 af
 Outflow = 0.70 cfs @ 0.03 hrs, Volume= 0.146 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.70 cfs @ 0.03 hrs, Volume= 0.146 af
 Routed to Reach R41 : Pipe I41 to I31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 749.38' @ 0.79 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	748.86'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.70 cfs @ 0.03 hrs HW=749.28' TW=749.08' (Dynamic Tailwater)
 ↳ **1=Orifice/Grate** (Orifice Controls 0.70 cfs @ 2.20 fps)



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Summary for Pond I51: Inlet 5-1

[57] Hint: Peaked at 749.64' (Flood elevation advised)

[62] Hint: Exceeded Reach R52 OUTLET depth by 0.13' @ 0.02 hrs

Inflow Area = 2.540 ac, 1.02% Impervious, Inflow Depth > 1.74" for 50-yr event
 Inflow = 1.79 cfs @ 0.78 hrs, Volume= 0.368 af
 Outflow = 1.79 cfs @ 0.78 hrs, Volume= 0.368 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.79 cfs @ 0.78 hrs, Volume= 0.368 af
 Routed to Reach R51 : Pipe I51 to I31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 749.64' @ 0.76 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	749.07'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	749.10'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

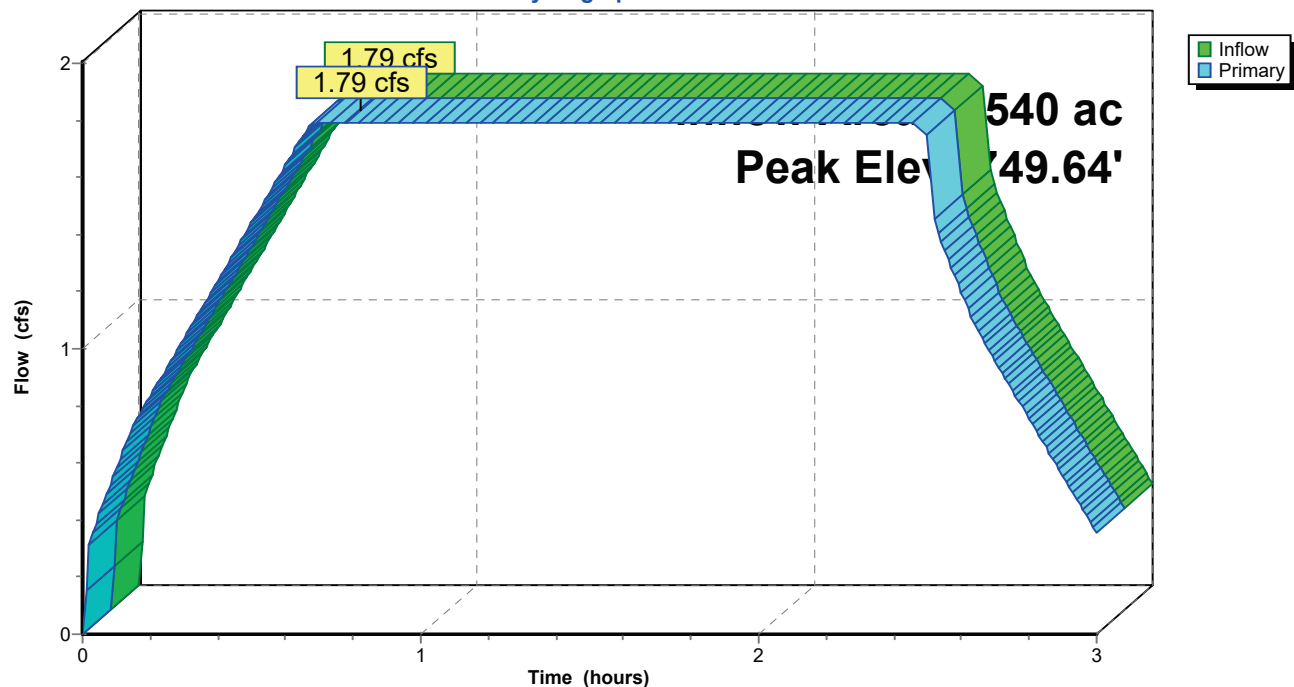
Primary OutFlow Max=1.79 cfs @ 0.78 hrs HW=749.64' TW=749.49' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 1.00 cfs @ 1.84 fps)

2=Orifice/Grate (Orifice Controls 0.79 cfs @ 1.84 fps)

Pond I51: Inlet 5-1

Hydrograph



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Summary for Pond I52: Inlet 5-2

[57] Hint: Peaked at 750.73' (Flood elevation advised)

[63] Warning: Exceeded Reach R53 INLET depth by 0.16' @ 2.66 hrs

Inflow Area = 2.186 ac, 0.27% Impervious, Inflow Depth > 1.65" for 50-yr event
 Inflow = 1.47 cfs @ 0.67 hrs, Volume= 0.301 af
 Outflow = 1.47 cfs @ 0.78 hrs, Volume= 0.301 af, Atten= 0%, Lag= 6.6 min
 Primary = 1.47 cfs @ 0.78 hrs, Volume= 0.301 af
 Routed to Reach R52 : Pipe I52 to I51

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 750.73' @ 0.76 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	750.10'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	750.26'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

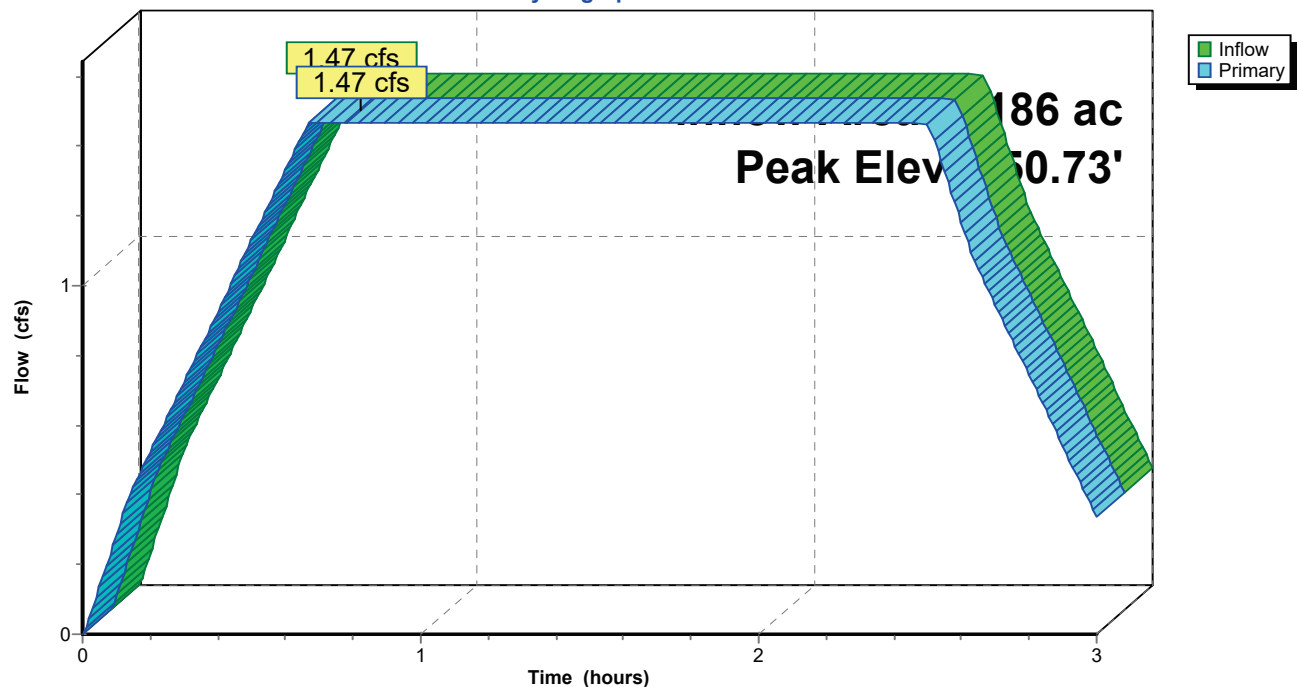
Primary OutFlow Max=1.47 cfs @ 0.78 hrs HW=750.73' TW=750.54' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 1.07 cfs @ 2.07 fps)

2=Orifice/Grate (Orifice Controls 0.40 cfs @ 2.07 fps)

Pond I52: Inlet 5-2

Hydrograph



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Summary for Pond I53: Inlet 5-3

[57] Hint: Peaked at 750.67' (Flood elevation advised)

Inflow Area = 0.156 ac, 0.00% Impervious, Inflow Depth = 1.94" for 50-yr event
 Inflow = 0.12 cfs @ 0.13 hrs, Volume= 0.025 af
 Outflow = 0.12 cfs @ 0.23 hrs, Volume= 0.025 af, Atten= 0%, Lag= 6.0 min
 Primary = 0.12 cfs @ 0.23 hrs, Volume= 0.025 af
 Routed to Reach R53 : Pipe I53 to I52

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 750.67' @ 0.29 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	750.43'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	750.56'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

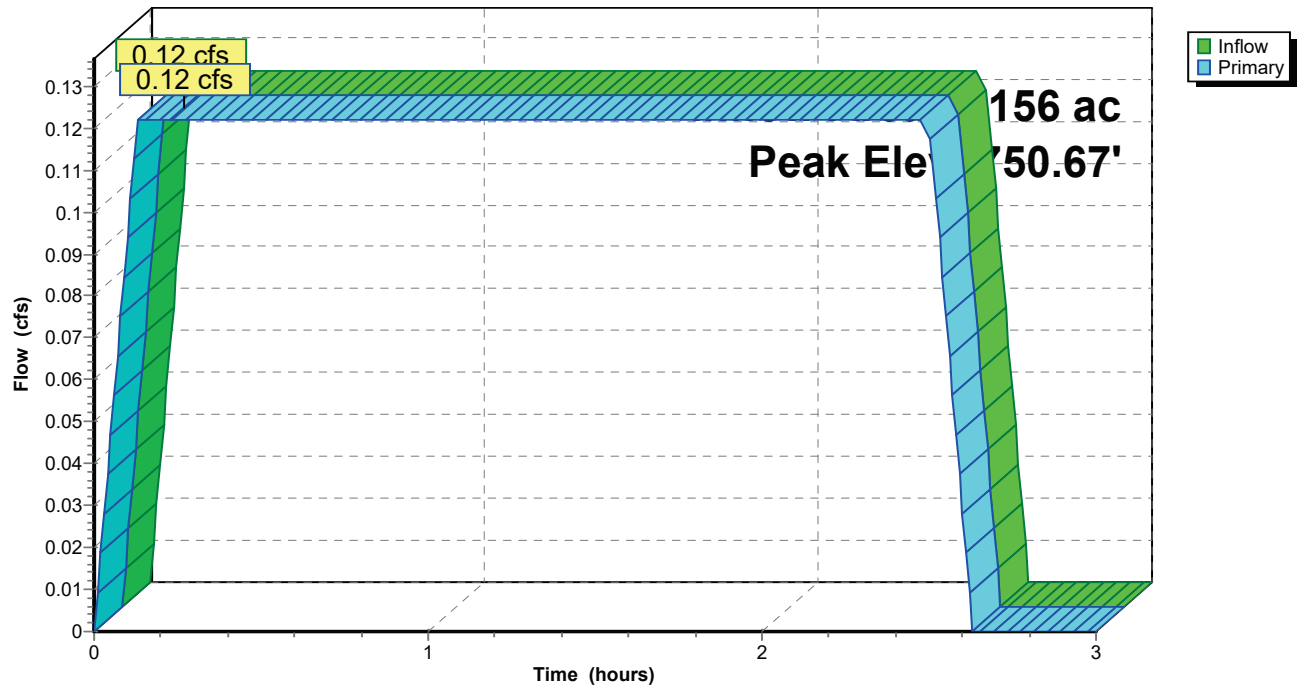
Primary OutFlow Max=0.12 cfs @ 0.23 hrs HW=750.67' TW=750.62' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 0.09 cfs @ 1.00 fps)

2=Orifice/Grate (Orifice Controls 0.03 cfs @ 1.00 fps)

Pond I53: Inlet 5-3

Hydrograph



340656 - Rantoul Transfer Station - Prop *L-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr*
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Summary for Pond I54: Inlet 5-4

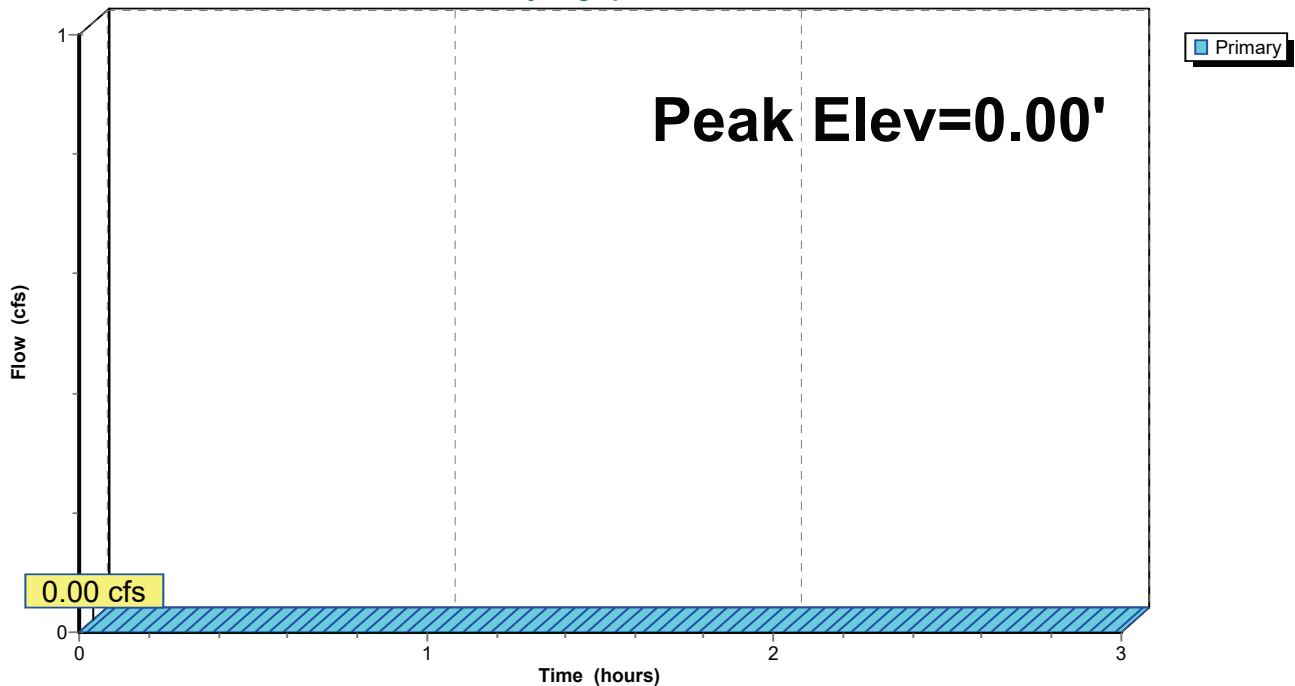
[43] Hint: Has no inflow (Outflow=Zero)

Device	Routing	Invert	Outlet Devices
#1	Primary	750.30'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' TW=750.30' (Dynamic Tailwater)
 ↳ **1=Orifice/Grate** (Controls 0.00 cfs)

Pond I54: Inlet 5-4

Hydrograph



340656 - Rantoul Transfer Station - PropL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

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Summary for Pond I61: Manhole 6-1

[57] Hint: Peaked at 749.14' (Flood elevation advised)

[62] Hint: Exceeded Reach R62 OUTLET depth by 0.11' @ 2.53 hrs

Inflow Area = 2.408 ac, 0.00% Impervious, Inflow Depth > 1.70" for 50-yr event
 Inflow = 1.66 cfs @ 0.92 hrs, Volume= 0.341 af
 Outflow = 1.66 cfs @ 0.91 hrs, Volume= 0.341 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.66 cfs @ 0.91 hrs, Volume= 0.341 af
 Routed to Reach R61 : Pipe I61 to I31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 749.14' @ 0.89 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	748.55'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	748.61'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

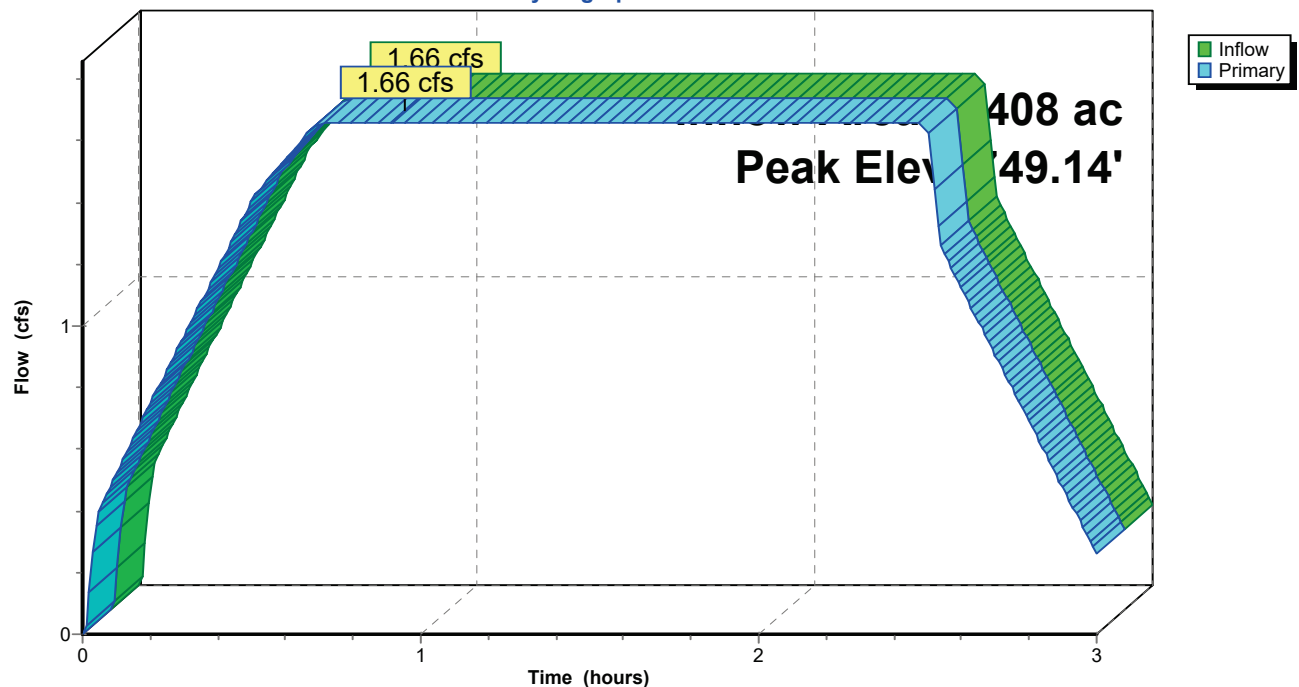
Primary OutFlow Max=1.66 cfs @ 0.91 hrs HW=749.14' TW=749.03' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 0.95 cfs @ 1.66 fps)

2=Orifice/Grate (Orifice Controls 0.71 cfs @ 1.66 fps)

Pond I61: Manhole 6-1

Hydrograph



340656 - Rantoul Transfer Station - PropL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

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Summary for Pond I62: Inlet 6-2

[57] Hint: Peaked at 749.86' (Flood elevation advised)

[62] Hint: Exceeded Reach R63 OUTLET depth by 0.17' @ 0.05 hrs

Inflow Area = 1.749 ac, 0.00% Impervious, Inflow Depth > 1.70" for 50-yr event
 Inflow = 1.21 cfs @ 0.90 hrs, Volume= 0.247 af
 Outflow = 1.21 cfs @ 0.92 hrs, Volume= 0.247 af, Atten= 0%, Lag= 1.2 min
 Primary = 1.21 cfs @ 0.92 hrs, Volume= 0.247 af
 Routed to Reach R62 : Pipe I62 to I61

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 749.86' @ 0.86 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	749.32'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	749.35'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

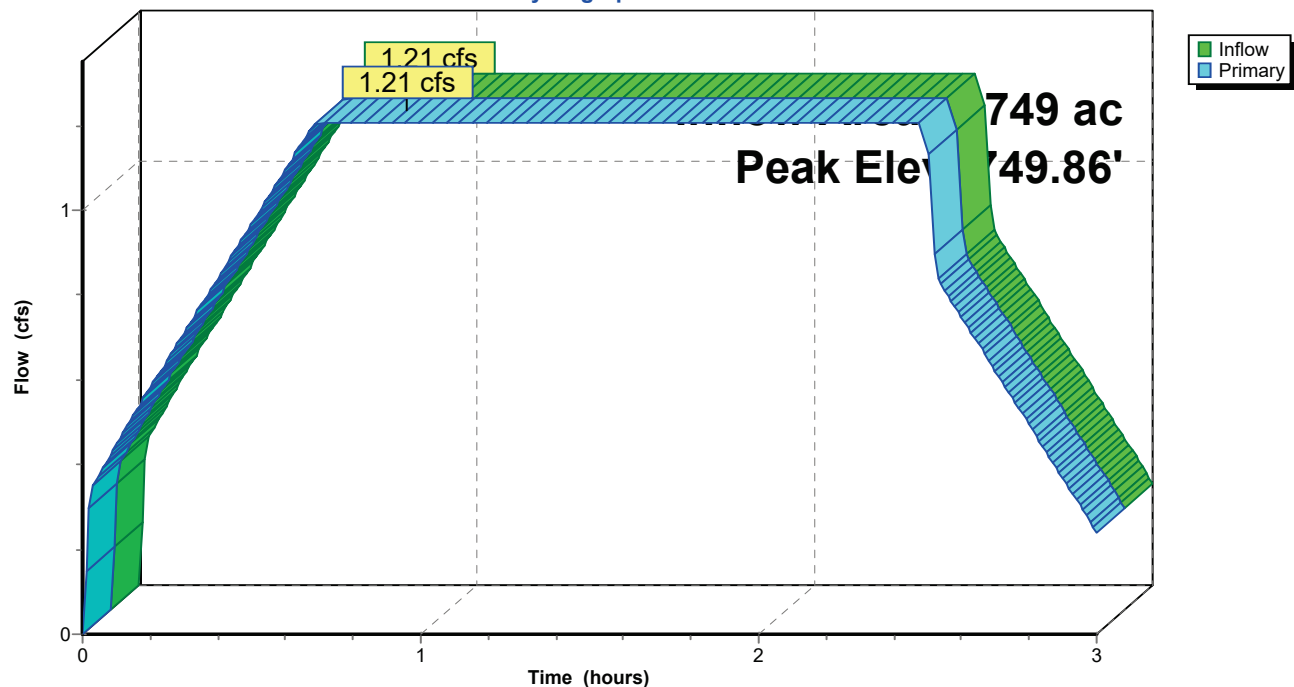
Primary OutFlow Max=1.21 cfs @ 0.92 hrs HW=749.86' TW=749.77' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 0.62 cfs @ 1.45 fps)

2=Orifice/Grate (Orifice Controls 0.58 cfs @ 1.45 fps)

Pond I62: Inlet 6-2

Hydrograph



340656 - Rantoul Transfer Station - PropL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

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Summary for Pond I63: Inlet 6-3

[57] Hint: Peaked at 750.46' (Flood elevation advised)

[63] Warning: Exceeded Reach R54 INLET depth by 0.16' @ 0.85 hrs

Inflow Area = 1.364 ac, 0.00% Impervious, Inflow Depth > 1.56" for 50-yr event
 Inflow = 0.87 cfs @ 0.68 hrs, Volume= 0.177 af
 Outflow = 0.87 cfs @ 0.69 hrs, Volume= 0.177 af, Atten= 0%, Lag= 0.6 min
 Primary = 0.87 cfs @ 0.69 hrs, Volume= 0.177 af
 Routed to Reach R63 : Pipe I63 to I62

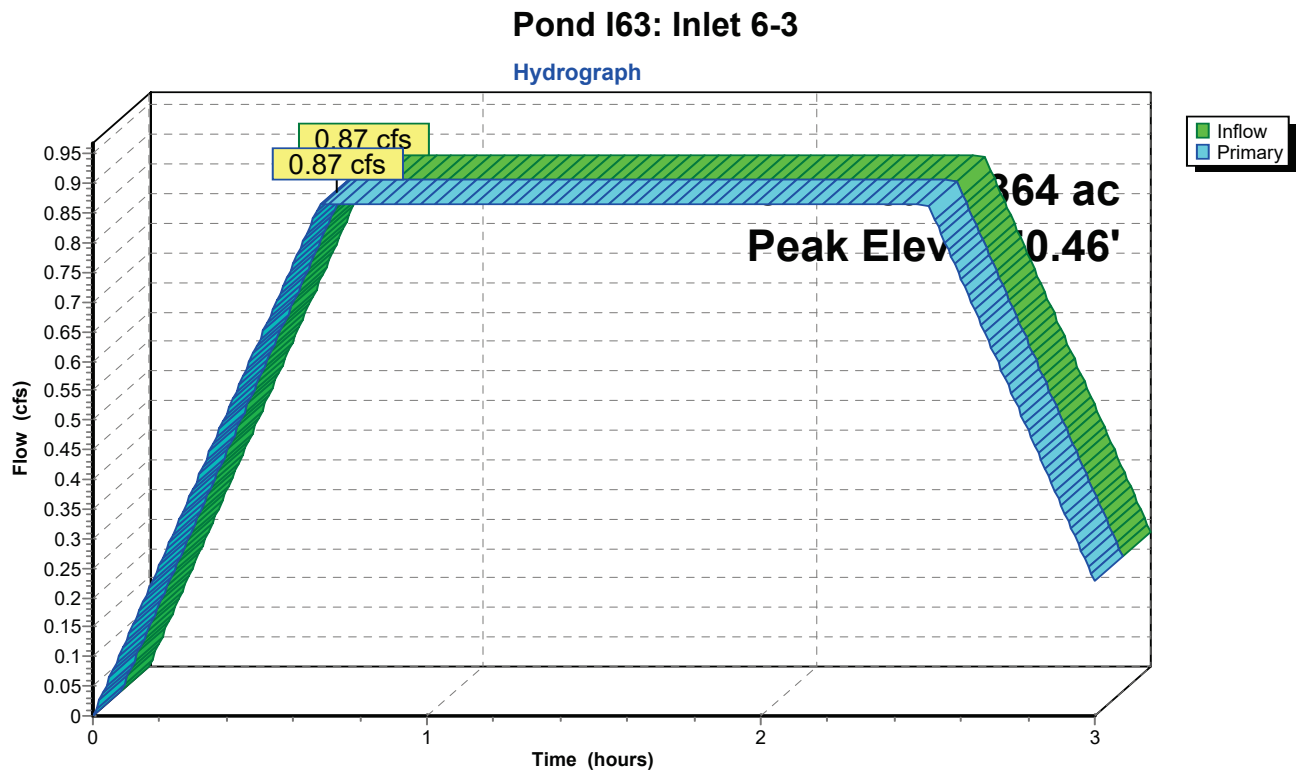
Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 750.46' @ 0.85 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	749.91'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.86 cfs @ 0.69 hrs HW=750.46' TW=750.30' (Dynamic Tailwater)

↑1=Orifice/Grate (Orifice Controls 0.86 cfs @ 1.93 fps)



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Summary for Pond I71: Inlet 7-1

[57] Hint: Peaked at 748.48' (Flood elevation advised)

[62] Hint: Exceeded Reach R81 OUTLET depth by 0.44' @ 2.52 hrs

Inflow Area = 2.152 ac, 49.07% Impervious, Inflow Depth > 2.53" for 50-yr event
 Inflow = 2.19 cfs @ 0.65 hrs, Volume= 0.453 af
 Outflow = 2.19 cfs @ 0.65 hrs, Volume= 0.453 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.19 cfs @ 0.65 hrs, Volume= 0.453 af
 Routed to Reach R71 : Pipe I71 to I15

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 748.48' @ 0.60 hrs

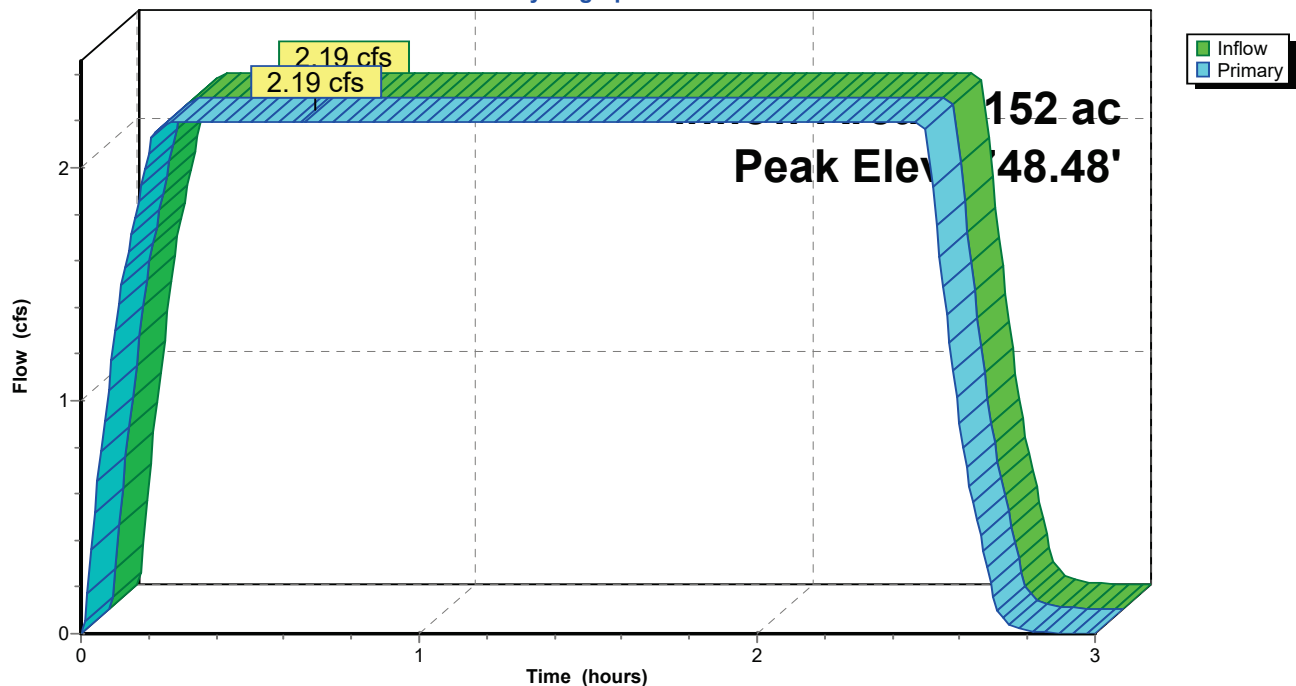
Device	Routing	Invert	Outlet Devices
#1	Primary	747.78'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	747.78'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	748.93'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=2.19 cfs @ 0.65 hrs HW=748.48' TW=748.33' (Dynamic Tailwater)

- 1=Orifice/Grate (Orifice Controls 1.10 cfs @ 1.86 fps)
- 2=Orifice/Grate (Orifice Controls 1.10 cfs @ 1.86 fps)
- 3=Orifice/Grate (Controls 0.00 cfs)

Pond I71: Inlet 7-1

Hydrograph



340656 - Rantoul Transfer Station - Prop/L-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

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Summary for Pond I81: Inlet 8-1

[57] Hint: Peaked at 748.99' (Flood elevation advised)

[62] Hint: Exceeded Reach R13 OUTLET depth by 0.18' @ 2.52 hrs

[62] Hint: Exceeded Reach R82 OUTLET depth by 0.07' @ 0.15 hrs

Inflow Area = 0.792 ac, 48.74% Impervious, Inflow Depth = 2.33" for 50-yr event
 Inflow = 0.75 cfs @ 0.32 hrs, Volume= 0.154 af
 Outflow = 0.75 cfs @ 0.33 hrs, Volume= 0.154 af, Atten= 0%, Lag= 0.6 min
 Primary = 0.75 cfs @ 0.33 hrs, Volume= 0.154 af
 Routed to Reach R81 : Pipe I81 to I71

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 748.99' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	748.66'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	748.69'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	748.70'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.75 cfs @ 0.33 hrs HW=748.99' TW=748.93' (Dynamic Tailwater)

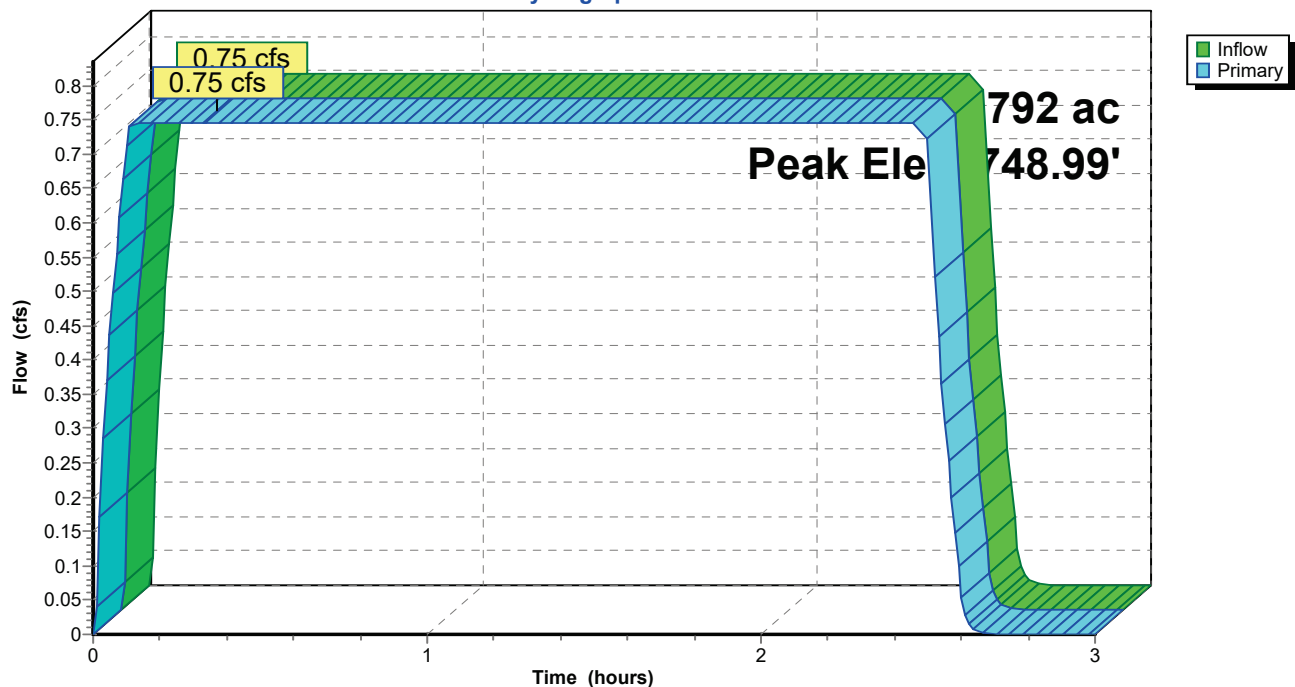
1=Orifice/Grate (Orifice Controls 0.27 cfs @ 1.19 fps)

2=Orifice/Grate (Orifice Controls 0.24 cfs @ 1.19 fps)

3=Orifice/Grate (Orifice Controls 0.23 cfs @ 1.19 fps)

Pond I81: Inlet 8-1

Hydrograph



340656 - Rantoul Transfer Station - Prop/L-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

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Summary for Pond I82: Inlet 8-2

[57] Hint: Peaked at 751.12' (Flood elevation advised)

Inflow Area = 0.625 ac, 35.68% Impervious, Inflow Depth = 2.05" for 50-yr event
 Inflow = 0.52 cfs @ 0.10 hrs, Volume= 0.107 af
 Outflow = 0.52 cfs @ 0.18 hrs, Volume= 0.107 af, Atten= 0%, Lag= 4.8 min
 Primary = 0.52 cfs @ 0.18 hrs, Volume= 0.107 af
 Routed to Reach R82 : Pipe I82 to I81

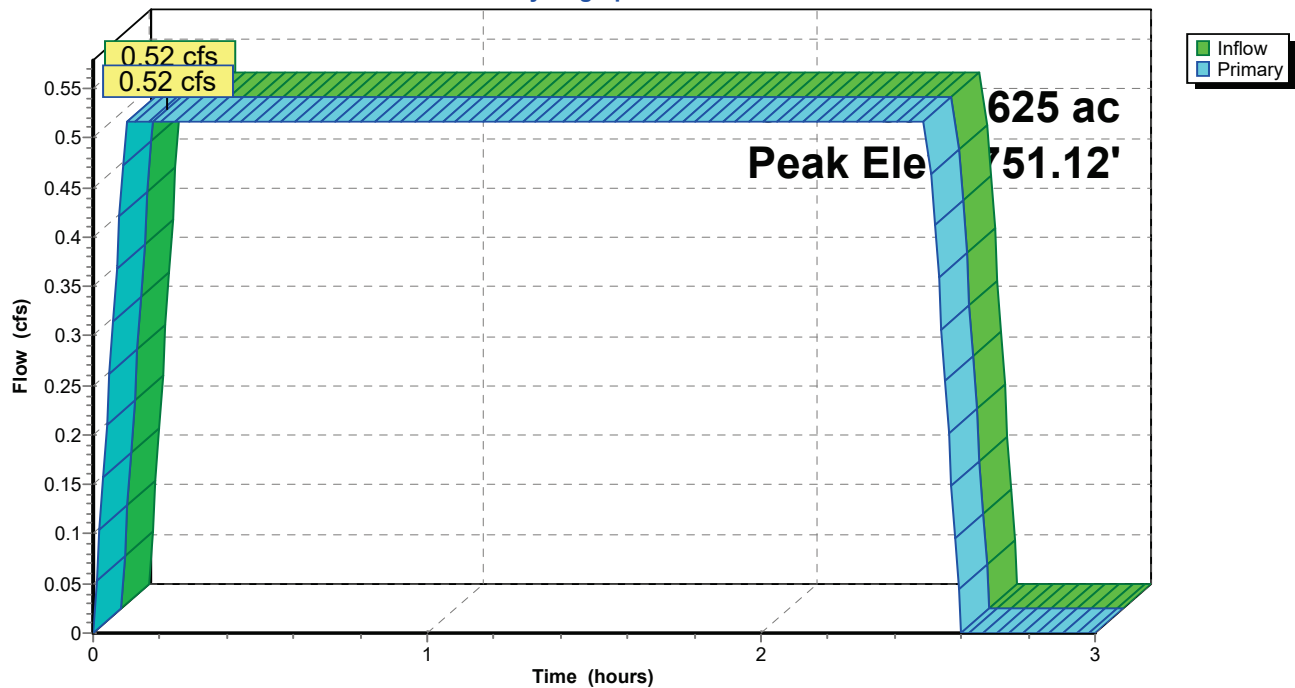
Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 751.12' @ 0.24 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	750.74'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.52 cfs @ 0.18 hrs HW=751.12' TW=750.96' (Dynamic Tailwater)
 1=Orifice/Grate (Orifice Controls 0.52 cfs @ 1.90 fps)

Pond I82: Inlet 8-2

Hydrograph



340656 - Rantoul Transfer Station - PropL-Rantoul 50-yr Duration=150 min, Inten=1.46 in/hr

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Summary for Pond I91: Inlet 9-1

[57] Hint: Peaked at 750.66' (Flood elevation advised)

[62] Hint: Exceeded Reach R92 OUTLET depth by 0.09' @ 2.53 hrs

Inflow Area = 0.640 ac, 25.31% Impervious, Inflow Depth > 2.32" for 50-yr event
 Inflow = 0.60 cfs @ 0.48 hrs, Volume= 0.124 af
 Outflow = 0.60 cfs @ 0.60 hrs, Volume= 0.124 af, Atten= 0%, Lag= 7.2 min
 Primary = 0.60 cfs @ 0.60 hrs, Volume= 0.124 af
 Routed to Reach R91 : Pipe I91 to I71

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

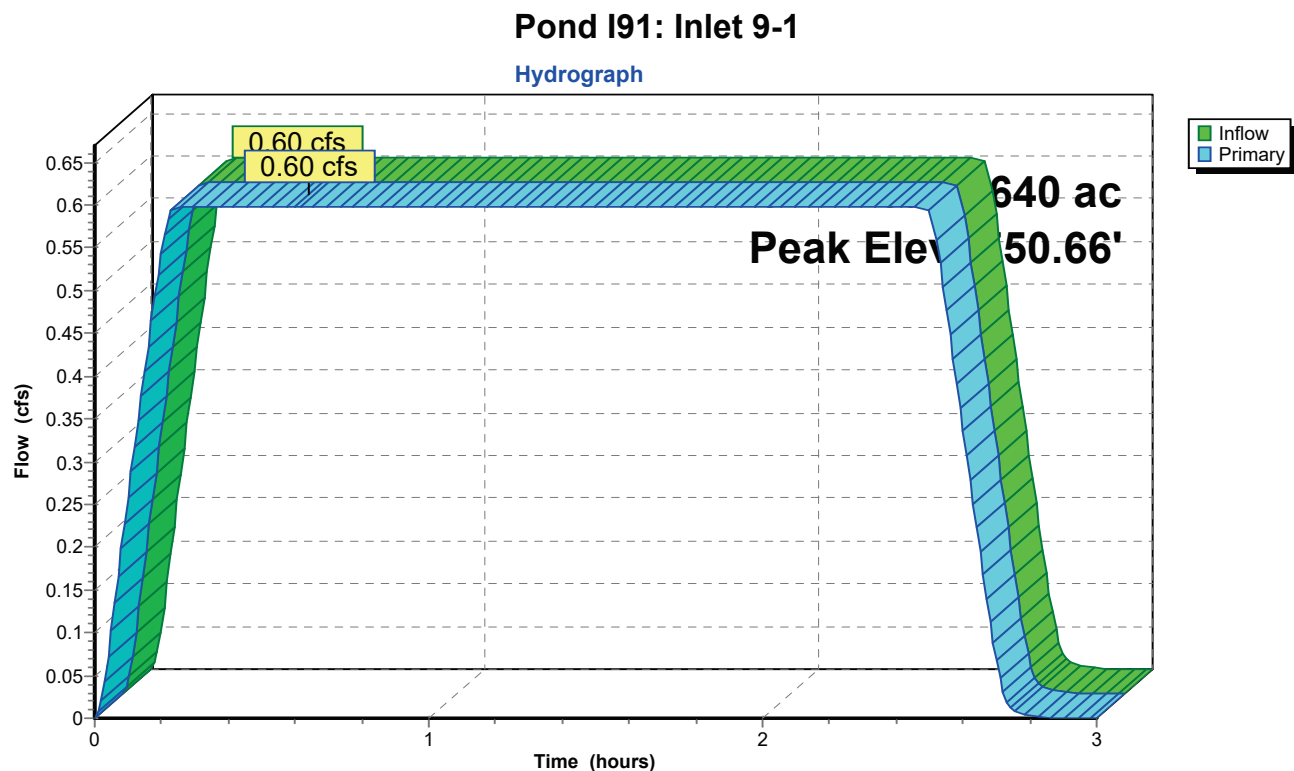
Peak Elev= 750.66' @ 0.57 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	750.30'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	750.30'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.60 cfs @ 0.60 hrs HW=750.66' TW=750.60' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 0.30 cfs @ 1.19 fps)

2=Orifice/Grate (Orifice Controls 0.30 cfs @ 1.19 fps)



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Summary for Pond I92: Inlet 9-2

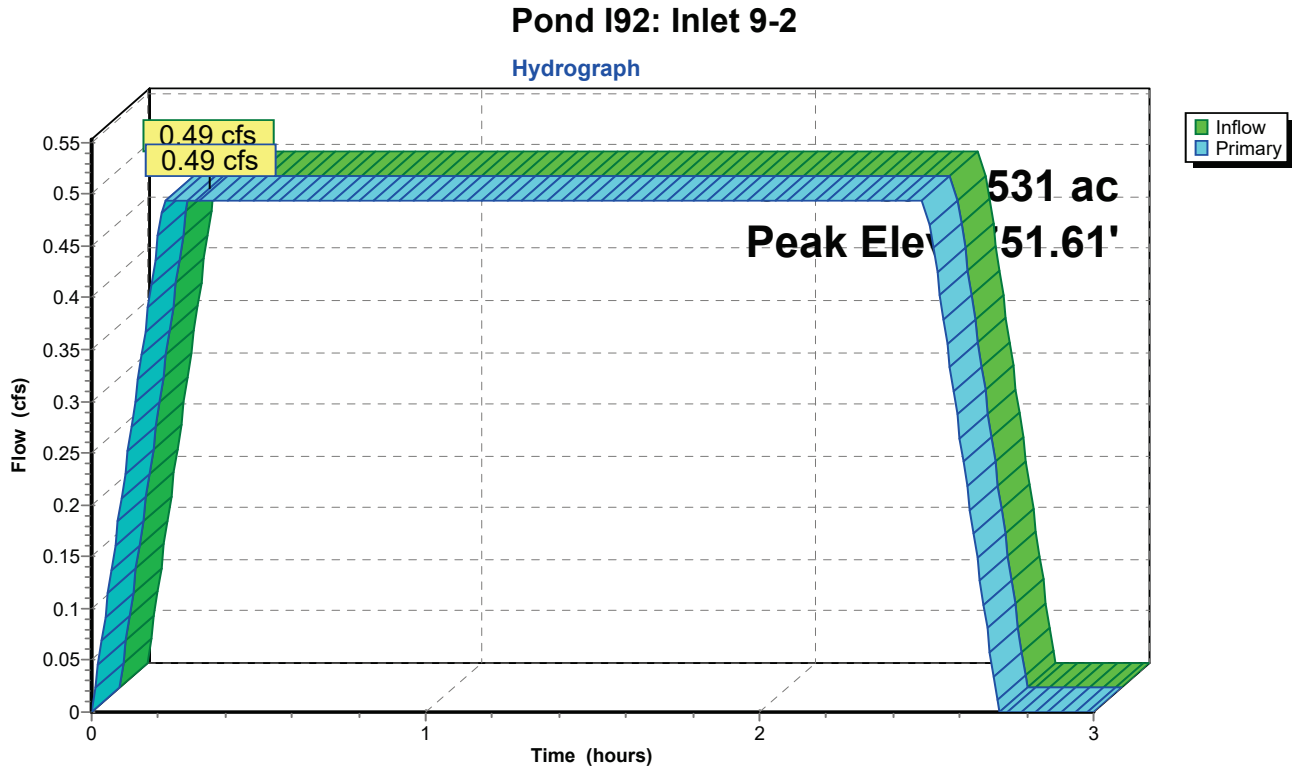
[57] Hint: Peaked at 751.61' (Flood elevation advised)

Inflow Area = 0.531 ac, 21.66% Impervious, Inflow Depth = 2.30" for 50-yr event
 Inflow = 0.49 cfs @ 0.22 hrs, Volume= 0.102 af
 Outflow = 0.49 cfs @ 0.31 hrs, Volume= 0.102 af, Atten= 0%, Lag= 5.4 min
 Primary = 0.49 cfs @ 0.31 hrs, Volume= 0.102 af
 Routed to Reach R92 : Pipe I92 to I91

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 751.61' @ 0.43 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	751.22'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.49 cfs @ 0.31 hrs HW=751.61' TW=751.49' (Dynamic Tailwater)
 1=Orifice/Grate (Orifice Controls 0.49 cfs @ 1.72 fps)



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Summary for Pond P1: Detention Pond

[44] Hint: Outlet device #1 is below defined storage

[62] Hint: Exceeded Reach R14 OUTLET depth by 1.34' @ 2.99 hrs

Inflow Area = 12.789 ac, 22.18% Impervious, Inflow Depth > 1.94" for 50-yr event
 Inflow = 10.05 cfs @ 0.93 hrs, Volume= 2.066 af
 Outflow = 2.82 cfs @ 2.70 hrs, Volume= 0.578 af, Atten= 72%, Lag= 105.9 min
 Primary = 2.82 cfs @ 2.70 hrs, Volume= 0.578 af
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 738.38' @ 2.70 hrs Surf.Area= 1.081 ac Storage= 1.521 af

Plug-Flow detention time= 70.4 min calculated for 0.578 af (28% of inflow)

Center-of-Mass det. time= 15.5 min (100.1 - 84.6)

Volume	Invert	Avail.Storage	Storage Description
#1	736.00'	3.653 af	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
736.00	0.024	0.000	0.000
737.00	0.592	0.308	0.308
738.00	1.025	0.809	1.117
739.00	1.170	1.097	2.214
739.50	1.276	0.611	2.825
740.14	1.310	0.828	3.653

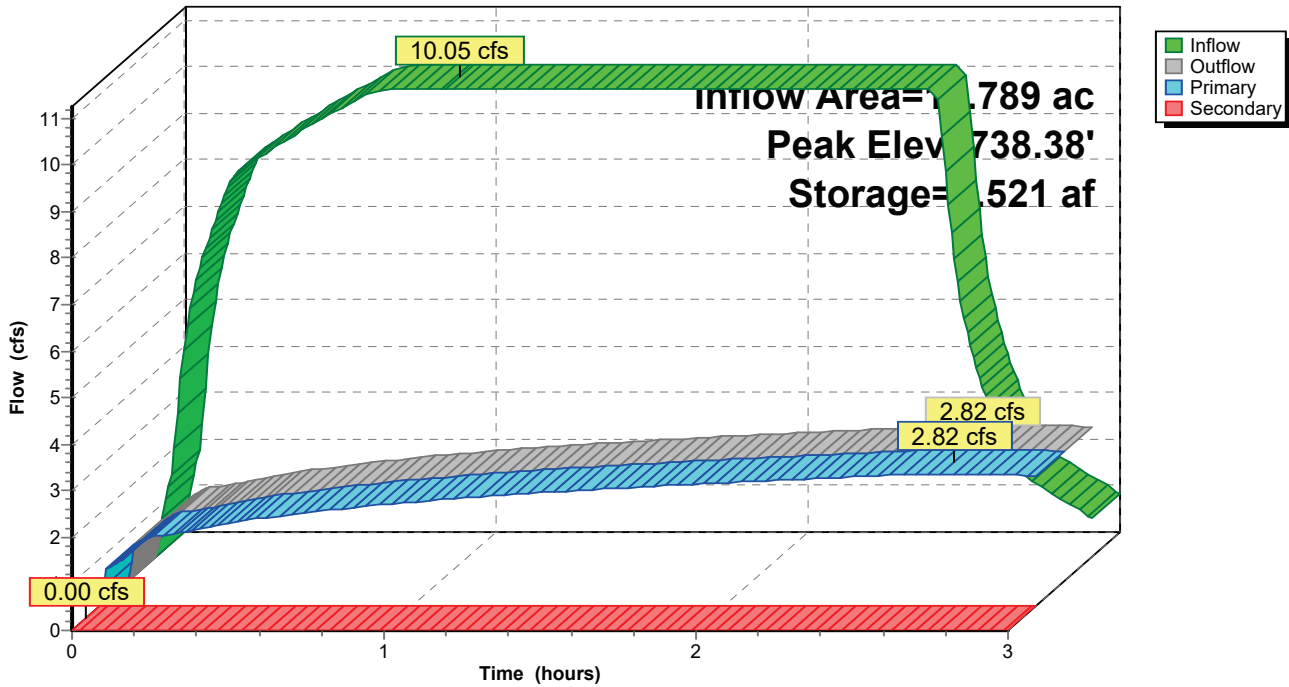
Device	Routing	Invert	Outlet Devices
#1	Primary	735.51'	8.0" Round Culvert L= 50.4' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 735.51' / 734.98' S= 0.0105 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 0.35 sf
#2	Secondary	739.50'	33.0' long x 8.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=2.82 cfs @ 2.70 hrs HW=738.38' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.82 cfs @ 8.07 fps)**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=736.00' (Free Discharge)↑**2=Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

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Pond P1: Detention Pond

Hydrograph



340656 - Rantoul Transfer Station - Proposed Conditions Rational

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Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)	Node Name
1	R13	750.17	748.69	149.2	0.0099	0.010	0.0	12.0	0.0	
2	R14	741.84	736.82	148.6	0.0338	0.012	0.0	24.0	0.0	
3	R15	744.87	743.36	147.0	0.0103	0.012	0.0	24.0	0.0	
4	R16	749.30	748.18	108.0	0.0104	0.012	0.0	12.0	0.0	
5	R17	745.50	744.50	20.0	0.0500	0.012	0.0	6.0	0.0	
6	R18	743.36	736.82	147.0	0.0445	0.012	0.0	24.0	0.0	
7	R19	745.41	743.36	46.0	0.0446	0.012	0.0	12.0	0.0	
8	R21	746.00	744.88	223.0	0.0050	0.012	0.0	24.0	0.0	
9	R31	747.75	747.18	154.3	0.0037	0.012	0.0	18.0	0.0	
10	R41	748.86	748.17	324.3	0.0021	0.010	0.0	12.0	0.0	
11	R51	749.07	747.75	123.9	0.0107	0.012	0.0	15.0	0.0	
12	R52	750.10	749.10	114.4	0.0087	0.012	0.0	12.0	0.0	
13	R53	750.43	750.26	62.2	0.0027	0.010	0.0	6.0	0.0	
14	R54	750.30	749.91	63.0	0.0062	0.010	0.0	6.0	0.0	
15	R61	748.55	747.75	133.8	0.0060	0.012	0.0	15.0	0.0	
16	R62	749.32	748.61	122.3	0.0058	0.012	0.0	12.0	0.0	
17	R63	749.91	749.35	117.3	0.0048	0.012	0.0	12.0	0.0	
18	R71	747.78	744.96	307.3	0.0092	0.012	0.0	12.0	0.0	
19	R81	748.66	747.78	63.2	0.0139	0.012	0.0	12.0	0.0	
20	R82	750.74	748.70	136.0	0.0150	0.012	0.0	12.0	0.0	
21	R91	750.30	748.93	206.5	0.0066	0.012	0.0	12.0	0.0	
22	R92	751.22	750.30	134.2	0.0069	0.012	0.0	12.0	0.0	
23	P1	735.51	734.98	50.4	0.0105	0.010	0.0	8.0	0.0	

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Time span=0.00-3.00 hrs, dt=0.01 hrs, 301 points
 Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

SubcatchmentCA10: South Scale Area	Runoff Area=0.371 ac 0.00% Impervious Runoff Depth=1.28" Flow Length=218' Tc=13.3 min C=0.30 Runoff=0.17 cfs 0.040 af
SubcatchmentCA11: North Scale Area	Runoff Area=0.625 ac 35.68% Impervious Runoff Depth=2.39" Flow Length=168' Tc=5.9 min C=0.56 Runoff=0.55 cfs 0.125 af
SubcatchmentCA12: Building Entrance	Runoff Area=0.720 ac 70.56% Impervious Runoff Depth=3.42" Flow Length=376' Tc=12.6 min C=0.80 Runoff=0.90 cfs 0.205 af
SubcatchmentCA13: South Building Area	Runoff Area=0.167 ac 97.60% Impervious Runoff Depth=3.97" Flow Length=85' Slope=0.0100 '/' Tc=0.7 min C=0.93 Runoff=0.24 cfs 0.055 af
SubcatchmentCA14: North Building Area	Runoff Area=0.503 ac 100.00% Impervious Runoff Depth=4.06" Flow Length=162' Slope=0.0100 '/' Tc=1.3 min C=0.95 Runoff=0.75 cfs 0.170 af
SubcatchmentCA15: West Building Area	Runoff Area=0.650 ac 7.23% Impervious Runoff Depth=1.50" Flow Length=175' Tc=13.3 min C=0.35 Runoff=0.36 cfs 0.081 af
SubcatchmentCA16: East Access Road	Runoff Area=0.109 ac 43.12% Impervious Runoff Depth=2.78" Flow Length=172' Tc=11.0 min C=0.65 Runoff=0.11 cfs 0.025 af
SubcatchmentCA17: East Building Area	Runoff Area=0.531 ac 21.66% Impervious Runoff Depth=2.69" Flow Length=221' Tc=12.9 min C=0.63 Runoff=0.52 cfs 0.119 af
SubcatchmentCA18: SE 1 Parking Area	Runoff Area=0.156 ac 0.00% Impervious Runoff Depth=2.26" Flow Length=146' Tc=7.8 min C=0.53 Runoff=0.13 cfs 0.029 af
SubcatchmentCA19: SE 2 Parking Area	Runoff Area=2.030 ac 0.30% Impervious Runoff Depth>1.83" Flow Length=694' Tc=40.1 min C=0.45 Runoff=1.43 cfs 0.310 af
SubcatchmentCA20: NE Parking Area	Runoff Area=1.364 ac 0.00% Impervious Runoff Depth>1.75" Flow Length=738' Tc=40.7 min C=0.43 Runoff=0.92 cfs 0.199 af
SubcatchmentCA21: N Central Parking Area	Runoff Area=0.385 ac 0.00% Impervious Runoff Depth=2.56" Flow Length=92' Slope=0.0121 '/' Tc=1.4 min C=0.60 Runoff=0.36 cfs 0.082 af
SubcatchmentCA22: S Central Parking Area	Runoff Area=0.354 ac 5.65% Impervious Runoff Depth=2.65" Flow Length=86' Slope=0.0137 '/' Tc=1.3 min C=0.62 Runoff=0.34 cfs 0.078 af
SubcatchmentCA23: NW Parking Area	Runoff Area=0.659 ac 0.00% Impervious Runoff Depth>1.96" Flow Length=203' Tc=30.5 min C=0.47 Runoff=0.49 cfs 0.108 af
SubcatchmentCA24: SW Parking Area	Runoff Area=0.510 ac 6.86% Impervious Runoff Depth=2.48" Flow Length=179' Tc=12.3 min C=0.58 Runoff=0.46 cfs 0.105 af
SubcatchmentCA6: Pond Catchment Area	Runoff Area=2.266 ac 13.02% Impervious Runoff Depth=1.67" Flow Length=218' Slope=0.0698 '/' Tc=2.0 min C=0.39 Runoff=1.38 cfs 0.315 af

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SubcatchmentCA7: NE Station Area	Runoff Area=0.750 ac 33.20% Impervious Runoff Depth>2.22" Flow Length=258' Tc=15.8 min C=0.52 Runoff=0.61 cfs 0.139 af
SubcatchmentCA8: East Station Area	Runoff Area=0.504 ac 97.62% Impervious Runoff Depth=3.97" Flow Length=219' Tc=3.9 min C=0.93 Runoff=0.73 cfs 0.167 af
SubcatchmentCA9: SE Station Area	Runoff Area=0.135 ac 98.52% Impervious Runoff Depth=4.02" Flow Length=117' Tc=3.1 min C=0.94 Runoff=0.20 cfs 0.045 af
Reach R13: Pipe CA13 to I81	Avg. Flow Depth=0.16' Max Vel=3.11 fps Inflow=0.24 cfs 0.055 af 12.0" Round Pipe n=0.010 L=149.2' S=0.0099 '/' Capacity=4.61 cfs Outflow=0.24 cfs 0.055 af
Reach R14: Pipe I14 to Pond	Avg. Flow Depth=0.59' Max Vel=11.08 fps Inflow=8.68 cfs 1.934 af 24.0" Round Pipe n=0.012 L=148.6' S=0.0338 '/' Capacity=45.04 cfs Outflow=8.68 cfs 1.933 af
Reach R15: Pipe I15 to I18	Avg. Flow Depth=0.81' Max Vel=7.16 fps Inflow=8.48 cfs 1.891 af 24.0" Round Pipe n=0.012 L=147.0' S=0.0103 '/' Capacity=24.84 cfs Outflow=8.48 cfs 1.889 af
Reach R16: Pipe I16 to I21	Avg. Flow Depth=0.29' Max Vel=3.83 fps Inflow=0.73 cfs 0.167 af 12.0" Round Pipe n=0.012 L=108.0' S=0.0104 '/' Capacity=3.93 cfs Outflow=0.73 cfs 0.167 af
Reach R17: Pipe I17 to Pond	Avg. Flow Depth=0.24' Max Vel=6.74 fps Inflow=0.61 cfs 0.139 af 6.0" Round Pipe n=0.012 L=20.0' S=0.0500 '/' Capacity=1.36 cfs Outflow=0.61 cfs 0.139 af
Reach R18: Pipe I18 to I14	Avg. Flow Depth=0.55' Max Vel=12.22 fps Inflow=8.68 cfs 1.934 af 24.0" Round Pipe n=0.012 L=147.0' S=0.0445 '/' Capacity=51.69 cfs Outflow=8.68 cfs 1.934 af
Reach R19: Pipe I19 to I14	Avg. Flow Depth=0.11' Max Vel=4.37 fps Inflow=0.20 cfs 0.045 af 12.0" Round Pipe n=0.012 L=46.0' S=0.0446 '/' Capacity=8.15 cfs Outflow=0.20 cfs 0.045 af
Reach R21: Pipe I21 to I15	Avg. Flow Depth=0.81' Max Vel=5.02 fps Inflow=5.97 cfs 1.325 af 24.0" Round Pipe n=0.012 L=223.0' S=0.0050 '/' Capacity=17.37 cfs Outflow=5.97 cfs 1.322 af
Reach R31: Pipe I31 to I21	Avg. Flow Depth=0.84' Max Vel=4.09 fps Inflow=4.13 cfs 0.909 af 18.0" Round Pipe n=0.012 L=154.3' S=0.0037 '/' Capacity=6.92 cfs Outflow=4.13 cfs 0.907 af
Reach R41: Pipe I41 to I31	Avg. Flow Depth=0.41' Max Vel=2.48 fps Inflow=0.75 cfs 0.170 af 12.0" Round Pipe n=0.010 L=324.3' S=0.0021 '/' Capacity=2.14 cfs Outflow=0.75 cfs 0.170 af
Reach R51: Pipe I51 to I31	Avg. Flow Depth=0.44' Max Vel=4.97 fps Inflow=1.90 cfs 0.417 af 15.0" Round Pipe n=0.012 L=123.9' S=0.0107 '/' Capacity=7.22 cfs Outflow=1.90 cfs 0.417 af
Reach R52: Pipe I52 to I51	Avg. Flow Depth=0.46' Max Vel=4.43 fps Inflow=1.56 cfs 0.340 af 12.0" Round Pipe n=0.012 L=114.4' S=0.0087 '/' Capacity=3.61 cfs Outflow=1.56 cfs 0.339 af
Reach R53: Pipe I53 to I52	Avg. Flow Depth=0.20' Max Vel=1.76 fps Inflow=0.13 cfs 0.029 af 6.0" Round Pipe n=0.010 L=62.2' S=0.0027 '/' Capacity=0.38 cfs Outflow=0.13 cfs 0.029 af
Reach R54: Pipe I54 to I63	Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0.000 af 6.0" Round Pipe n=0.010 L=63.0' S=0.0062 '/' Capacity=0.57 cfs Outflow=0.00 cfs 0.000 af

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Reach R61: Pipe I61 to I31	Avg. Flow Depth=0.49' Max Vel=3.94 fps Inflow=1.77 cfs 0.388 af
15.0" Round Pipe n=0.012 L=133.8' S=0.0060 '/' Capacity=5.41 cfs Outflow=1.77 cfs 0.387 af	
Reach R62: Pipe I62 to I61	Avg. Flow Depth=0.46' Max Vel=3.62 fps Inflow=1.28 cfs 0.281 af
12.0" Round Pipe n=0.012 L=122.3' S=0.0058 '/' Capacity=2.94 cfs Outflow=1.28 cfs 0.280 af	
Reach R63: Pipe I63 to I62	Avg. Flow Depth=0.40' Max Vel=3.08 fps Inflow=0.92 cfs 0.199 af
12.0" Round Pipe n=0.012 L=117.3' S=0.0048 '/' Capacity=2.67 cfs Outflow=0.92 cfs 0.198 af	
Reach R71: Pipe I71 to I15	Avg. Flow Depth=0.58' Max Vel=4.98 fps Inflow=2.33 cfs 0.529 af
12.0" Round Pipe n=0.012 L=307.3' S=0.0092 '/' Capacity=3.70 cfs Outflow=2.33 cfs 0.529 af	
Reach R81: Pipe I81 to I71	Avg. Flow Depth=0.28' Max Vel=4.35 fps Inflow=0.79 cfs 0.180 af
12.0" Round Pipe n=0.012 L=63.2' S=0.0139 '/' Capacity=4.55 cfs Outflow=0.79 cfs 0.180 af	
Reach R82: Pipe I82 to I81	Avg. Flow Depth=0.23' Max Vel=4.02 fps Inflow=0.55 cfs 0.125 af
12.0" Round Pipe n=0.012 L=136.0' S=0.0150 '/' Capacity=4.73 cfs Outflow=0.55 cfs 0.125 af	
Reach R91: Pipe I91 to I71	Avg. Flow Depth=0.30' Max Vel=3.13 fps Inflow=0.64 cfs 0.144 af
12.0" Round Pipe n=0.012 L=206.5' S=0.0066 '/' Capacity=3.14 cfs Outflow=0.64 cfs 0.144 af	
Reach R92: Pipe I92 to I91	Avg. Flow Depth=0.27' Max Vel=3.00 fps Inflow=0.52 cfs 0.119 af
12.0" Round Pipe n=0.012 L=134.2' S=0.0069 '/' Capacity=3.20 cfs Outflow=0.52 cfs 0.119 af	
Pond I14: Inlet 1-4	Peak Elev=742.80' Inflow=8.68 cfs 1.934 af Outflow=8.68 cfs 1.934 af
Pond I15: Inlet 1-5	Peak Elev=745.89' Inflow=8.48 cfs 1.891 af Outflow=8.48 cfs 1.891 af
Pond I16: Inlet 1-6	Peak Elev=749.77' Inflow=0.73 cfs 0.167 af Outflow=0.73 cfs 0.167 af
Pond I17: Trench Drain 1-7	Peak Elev=746.17' Inflow=0.61 cfs 0.139 af Outflow=0.61 cfs 0.139 af
Pond I18: Catch Basin 1-8	Peak Elev=744.30' Inflow=8.68 cfs 1.934 af Outflow=8.68 cfs 1.934 af
Pond I19: Inlet 1-9	Peak Elev=745.63' Inflow=0.20 cfs 0.045 af Outflow=0.20 cfs 0.045 af
Pond I21: Inlet 2-1	Peak Elev=748.16' Inflow=5.97 cfs 1.325 af Outflow=5.97 cfs 1.325 af
Pond I31: Manhole 3-1	Peak Elev=748.66' Inflow=4.13 cfs 0.909 af Outflow=4.13 cfs 0.909 af
Pond I41: Inlet 4-1	Peak Elev=749.40' Inflow=0.75 cfs 0.170 af Outflow=0.75 cfs 0.170 af

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Pond I51: Inlet 5-1	Peak Elev=749.66' Inflow=1.90 cfs 0.417 af Outflow=1.90 cfs 0.417 af
Pond I52: Inlet 5-2	Peak Elev=750.75' Inflow=1.56 cfs 0.340 af Outflow=1.56 cfs 0.340 af
Pond I53: Inlet 5-3	Peak Elev=750.67' Inflow=0.13 cfs 0.029 af Outflow=0.13 cfs 0.029 af
Pond I54: Inlet 5-4	Peak Elev=0.00' Primary=0.00 cfs 0.000 af
Pond I61: Manhole 6-1	Peak Elev=749.16' Inflow=1.77 cfs 0.388 af Outflow=1.77 cfs 0.388 af
Pond I62: Inlet 6-2	Peak Elev=749.88' Inflow=1.28 cfs 0.281 af Outflow=1.28 cfs 0.281 af
Pond I63: Inlet 6-3	Peak Elev=750.48' Inflow=0.92 cfs 0.199 af Outflow=0.92 cfs 0.199 af
Pond I71: Inlet 7-1	Peak Elev=748.51' Inflow=2.33 cfs 0.529 af Outflow=2.33 cfs 0.529 af
Pond I81: Inlet 8-1	Peak Elev=749.01' Inflow=0.79 cfs 0.180 af Outflow=0.79 cfs 0.180 af
Pond I82: Inlet 8-2	Peak Elev=751.13' Inflow=0.55 cfs 0.125 af Outflow=0.55 cfs 0.125 af
Pond I91: Inlet 9-1	Peak Elev=750.67' Inflow=0.64 cfs 0.144 af Outflow=0.64 cfs 0.144 af
Pond I92: Inlet 9-2	Peak Elev=751.63' Inflow=0.52 cfs 0.119 af Outflow=0.52 cfs 0.119 af
Pond P1: Detention Pond	Peak Elev=738.64' Storage=1.798 af Inflow=10.67 cfs 2.386 af Primary=2.94 cfs 0.590 af Secondary=0.00 cfs 0.000 af Outflow=2.94 cfs 0.590 af

Total Runoff Area = 12.789 ac Runoff Volume = 2.398 af Average Runoff Depth = 2.25"
77.82% Pervious = 9.953 ac 22.18% Impervious = 2.836 ac

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Summary for Subcatchment CA10: South Scale Area

Runoff = 0.17 cfs @ 0.23 hrs, Volume= 0.040 af, Depth= 1.28"
 Routed to Pond I15 : Inlet 1-5

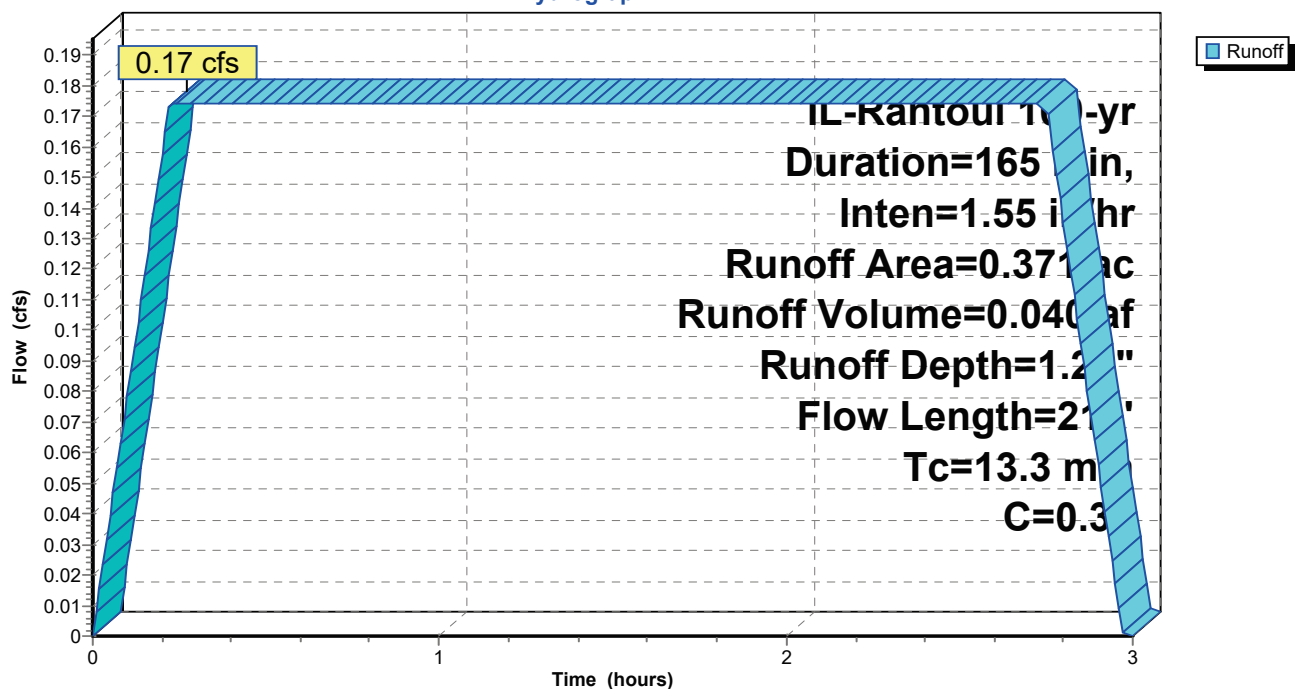
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.007	0.40	Orthents, loamy, 1 to 7 percent slopes (802B), Well drained, HSG C
0.364	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.371	0.30	Weighted Average
0.371		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	100	0.0176	0.16		Sheet Flow, Grass area S of access road Grass: Short n= 0.150 P2= 3.03"
2.7	118	0.0105	0.72		Shallow Concentrated Flow, Grass area s of access road Short Grass Pasture Kv= 7.0 fps
13.3	218	Total			

Subcatchment CA10: South Scale Area

Hydrograph



340656 - Rantoul Transfer Station - Pro IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

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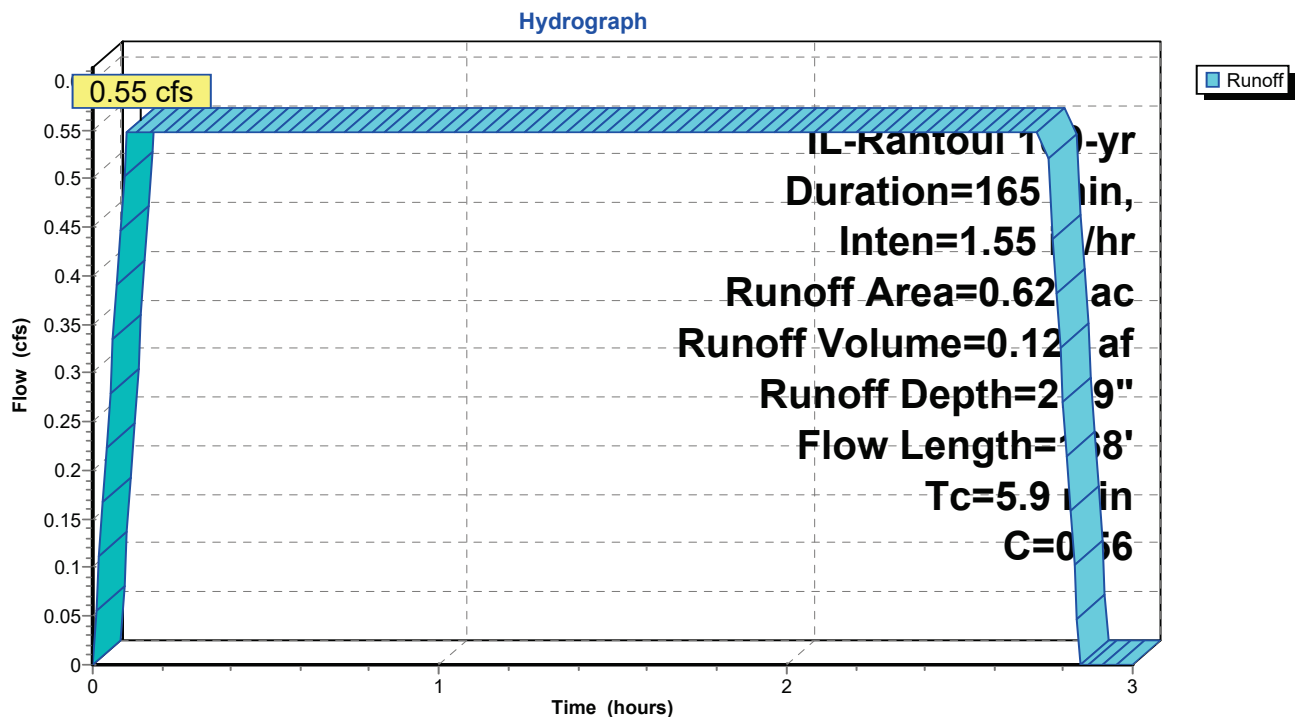
Summary for Subcatchment CA11: North Scale Area

Runoff = 0.55 cfs @ 0.10 hrs, Volume= 0.125 af, Depth= 2.39"
 Routed to Pond I82 : Inlet 8-2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.032	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.258	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.111	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.162	0.95	Asphalt
0.061	0.95	Sidewalk
0.001	0.60	Gravel
0.625	0.56	Weighted Average
0.402		64.32% Pervious Area
0.223		35.68% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.4	42	0.0274	0.16		Sheet Flow, Grass area SW of building Grass: Short n= 0.150 P2= 3.03"
1.5	126	0.0047	1.39		Shallow Concentrated Flow, Access road N of scale Paved Kv= 20.3 fps
5.9	168	Total			

Subcatchment CA11: North Scale Area

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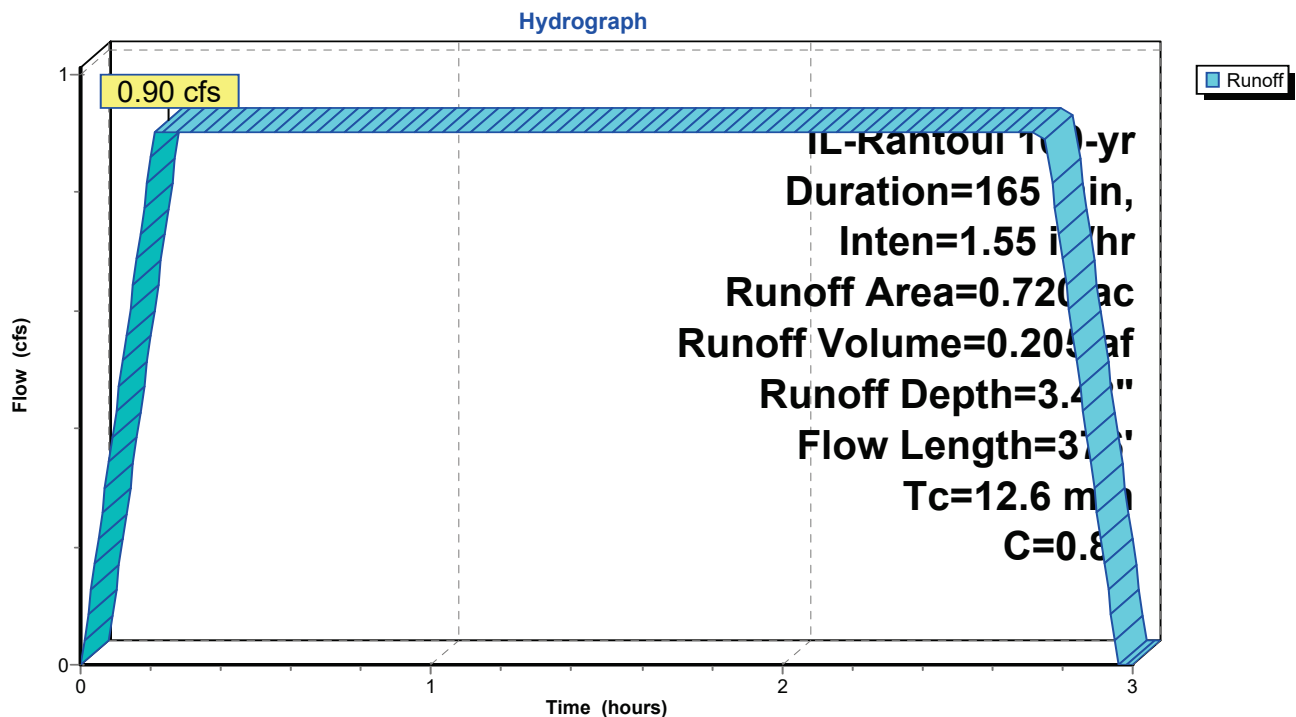
Summary for Subcatchment CA12: Building Entrance Area

Runoff = 0.90 cfs @ 0.21 hrs, Volume= 0.205 af, Depth= 3.42"
 Routed to Pond I71 : Inlet 7-1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.132	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.001	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.046	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.413	0.95	Asphalt
0.095	0.95	Sidewalk
0.033	0.60	Gravel
0.720	0.80	Weighted Average
0.212		29.44% Pervious Area
0.508		70.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	116	0.0224	0.18		Sheet Flow, Gass SE of building Grass: Short n= 0.150 P2= 3.03"
1.8	260	0.0137	2.38		Shallow Concentrated Flow, Access Road Paved Kv= 20.3 fps
12.6	376	Total			

Subcatchment CA12: Building Entrance Area

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Summary for Subcatchment CA13: South Building Area

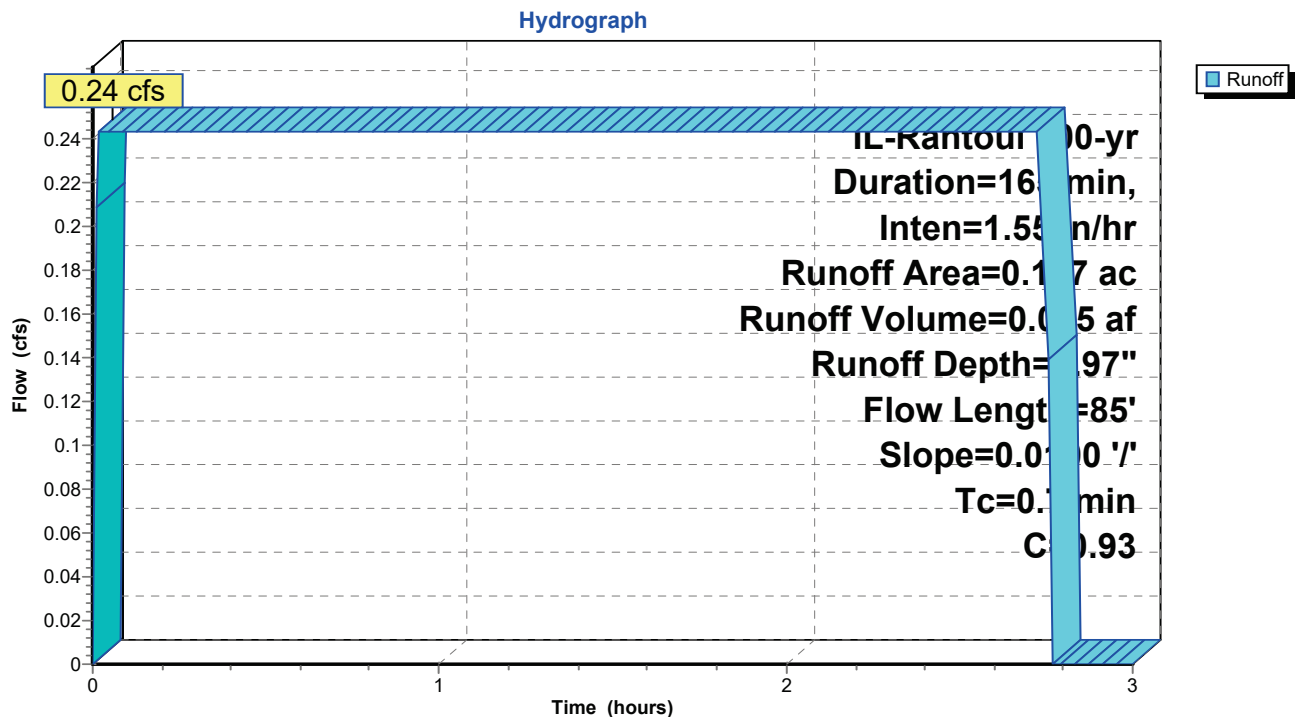
[70] Warning: Tc<8dt requires smaller dt

Runoff = 0.24 cfs @ 0.02 hrs, Volume= 0.055 af, Depth= 3.97"
 Routed to Reach R13 : Pipe CA13 to I81

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.162	0.95	Building
0.001	0.95	Sidewalk
0.004	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.167	0.93	Weighted Average
0.004		2.40% Pervious Area
0.163		97.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	85	0.0100	2.03		Shallow Concentrated Flow, Parking N of building Paved Kv= 20.3 fps

Subcatchment CA13: South Building Area

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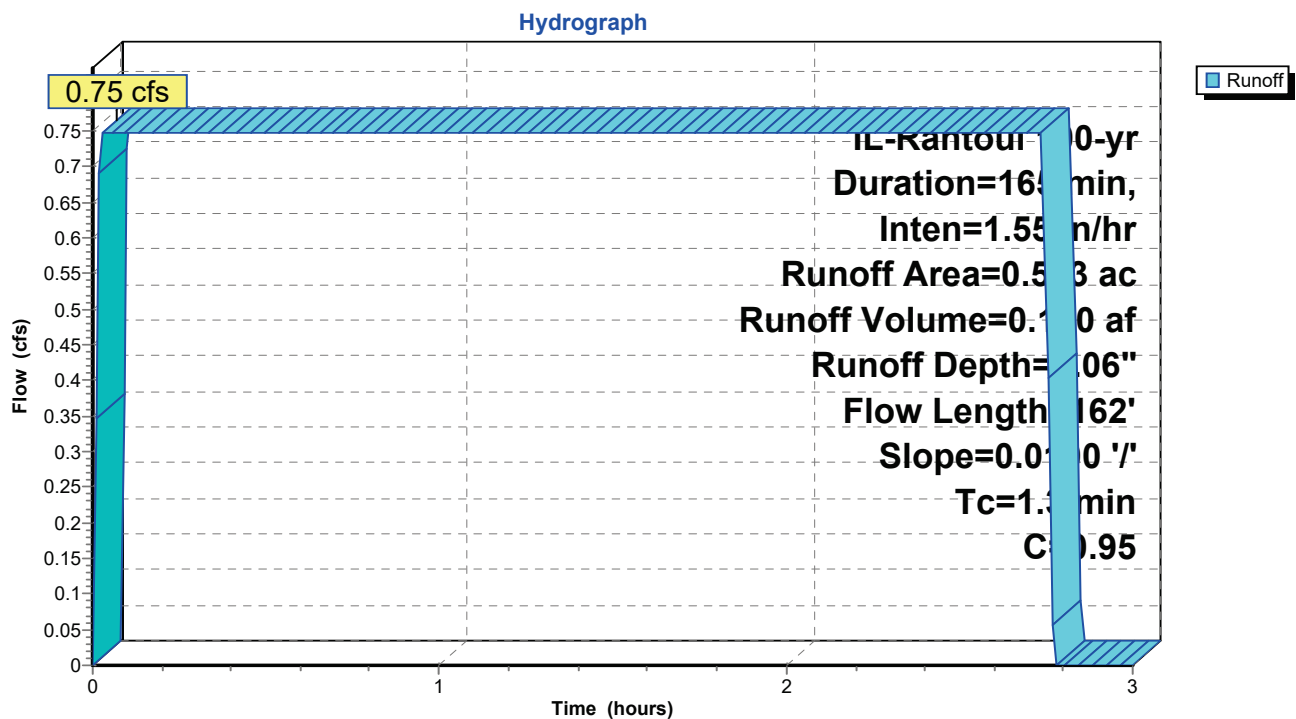
Summary for Subcatchment CA14: North Building Area[70] Warning: $T_c < 8dt$ requires smaller dt

Runoff = 0.75 cfs @ 0.03 hrs, Volume= 0.170 af, Depth= 4.06"
 Routed to Pond I41 : Inlet 4-1

Runoff by Rational method, Rise/Fall=1.0/1.0 x T_c , Time Span= 0.00-3.00 hrs, dt = 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.503	0.95	Unconnected roofs, HSG A
0.503		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	162	0.0100	2.03		Shallow Concentrated Flow, N building
					Paved Kv= 20.3 fps

Subcatchment CA14: North Building Area

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Summary for Subcatchment CA15: West Building Area

Runoff = 0.36 cfs @ 0.23 hrs, Volume= 0.081 af, Depth= 1.50"
 Routed to Pond I21 : Inlet 2-1

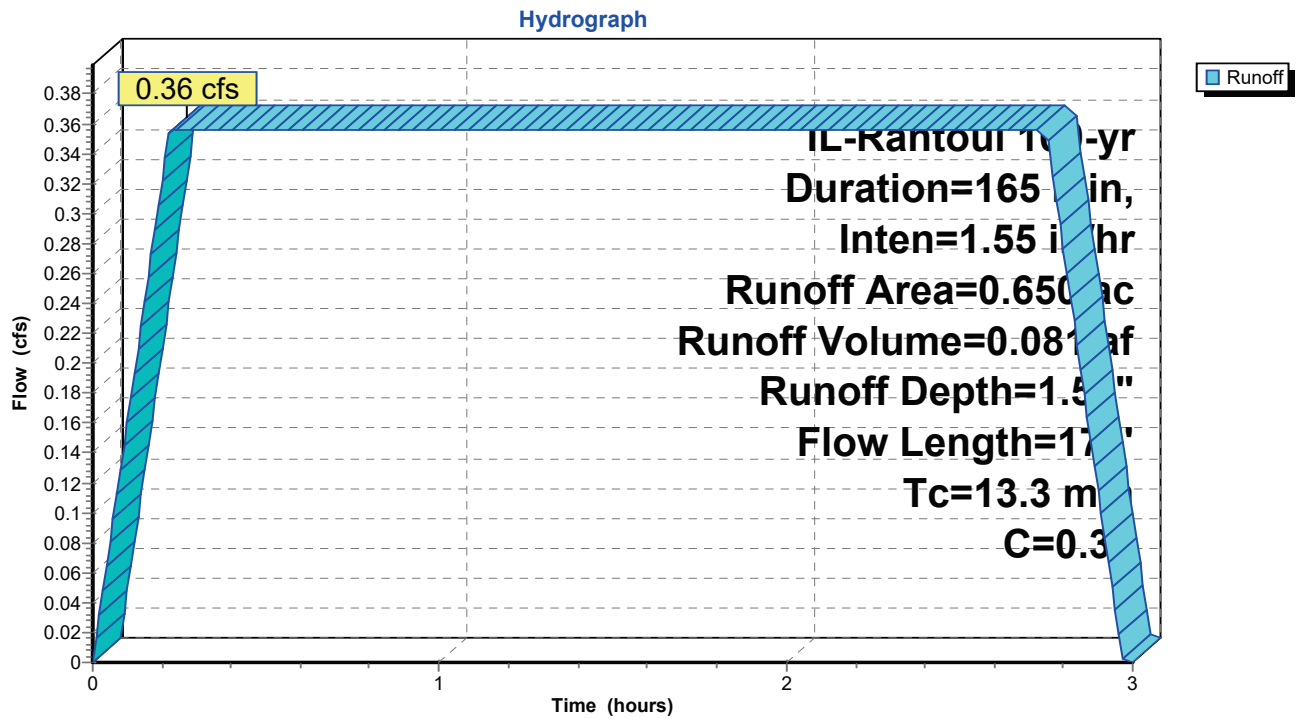
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.394	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.199	0.30	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D
0.036	0.95	Asphalt
0.011	0.95	Sidewalk
0.010	0.60	Gravel
0.650	0.35	Weighted Average
0.603		92.77% Pervious Area
0.047		7.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.1	79	0.0123	0.13		Sheet Flow, Parking N of building Grass: Short n= 0.150 P2= 3.03"
1.0	5	0.0172	0.09		Sheet Flow, Parking N of building Grass: Short n= 0.150 P2= 3.03"
0.3	16	0.0193	0.91		Sheet Flow, Parking access road Smooth surfaces n= 0.011 P2= 3.03"
1.9	75	0.0084	0.64		Shallow Concentrated Flow, Parking N of building Short Grass Pasture Kv= 7.0 fps
13.3	175	Total			

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Subcatchment CA15: West Building Area

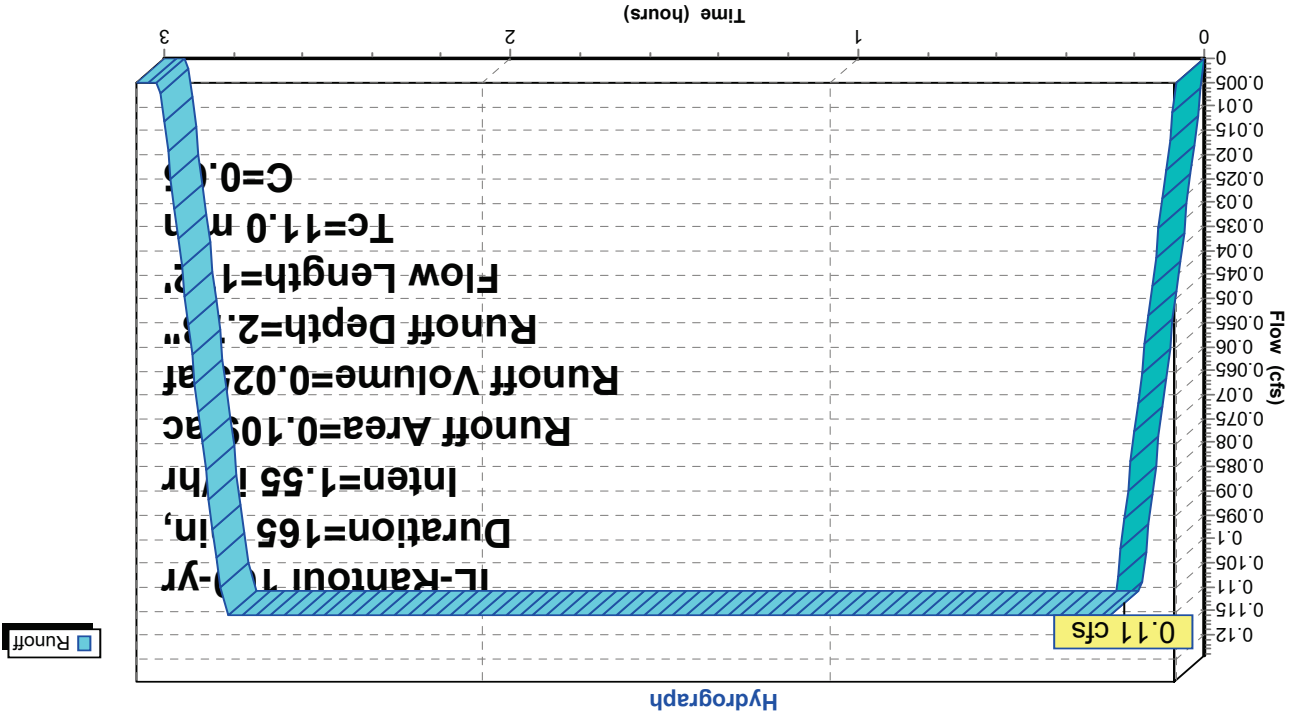


Summary for Subcatchment CA16: East Access Road Area

Runoff = 0.11 cfs @ 0.19 hrs, Volume= 0.025 af, Depth= 2.78"
Routed to Pond I91 : Inlet 9-1
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)		C		Description	
0.061	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C	0.95	Asphalt	0.60
0.001	0.60	Gravel	0.65	Weighted Average	0.109
0.062		56.88% Pervious Area			
0.047		43.12% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	113	0.0218	0.18		Sheet Flow, Grass E of building
0.3	59	0.0327	3.67		Grass: Short n= 0.150 P2= 3.03"
Shallow Concentrated Flow, Access Road					
Paved Kv= 20.3 fps					
11.0	172	Total			

Subcatchment CA16: East Access Road Area



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Summary for Subcatchment CA17: East Building Area

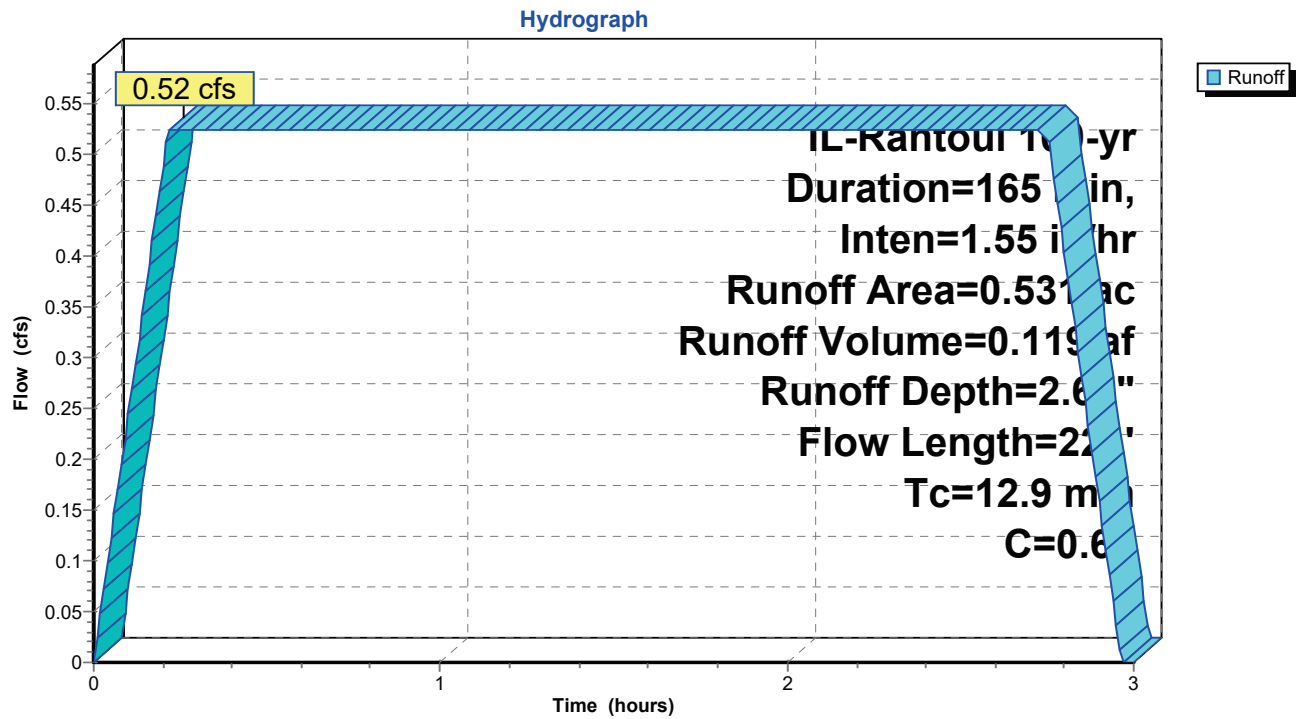
Runoff = 0.52 cfs @ 0.22 hrs, Volume= 0.119 af, Depth= 2.69"
 Routed to Pond I92 : Inlet 9-2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.115	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.032	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.008	0.95	Sidewalk
0.269	0.60	Gravel
0.107	0.95	Asphalt
0.531	0.63	Weighted Average
0.416		78.34% Pervious Area
0.115		21.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.0	100	0.0129	0.14		Sheet Flow, Grass E of building Grass: Short n= 0.150 P2= 3.03"
0.4	26	0.0231	1.06		Shallow Concentrated Flow, Access Road Short Grass Pasture Kv= 7.0 fps
0.5	95	0.0344	2.99		Shallow Concentrated Flow, Access Road Unpaved Kv= 16.1 fps
12.9	221	Total			

Subcatchment CA17: East Building Area



340656 - Rantoul Transfer Station - Pro IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr
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Summary for Subcatchment CA18: SE 1 Parking Area

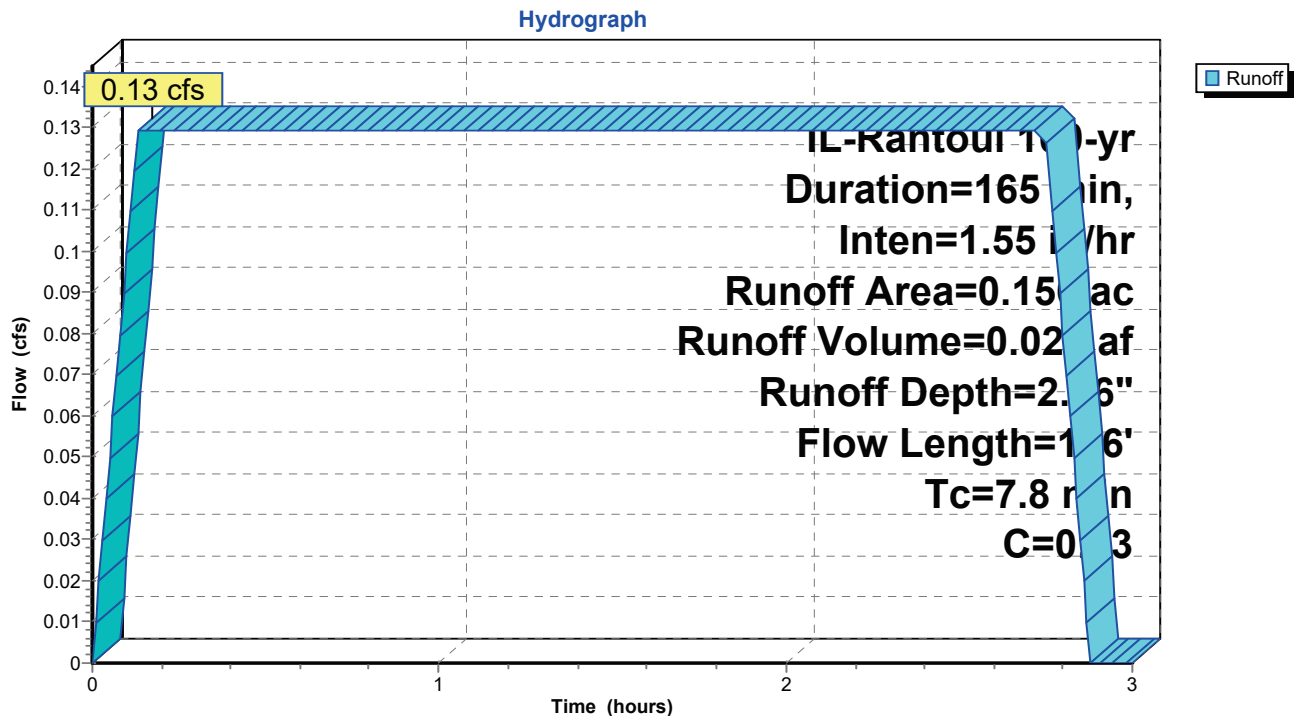
Runoff = 0.13 cfs @ 0.13 hrs, Volume= 0.029 af, Depth= 2.26"
 Routed to Pond I53 : Inlet 5-3

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.060	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.096	0.60	Gravel
0.156	0.53	Weighted Average
0.156		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	87	0.0350	0.20		Sheet Flow, Area E outside of property Grass: Short n= 0.150 P2= 3.03"
0.6	59	0.0114	1.72		Shallow Concentrated Flow, Area E outside of property Unpaved Kv= 16.1 fps
7.8	146	Total			

Subcatchment CA18: SE 1 Parking Area



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Summary for Subcatchment CA19: SE 2 Parking Area

Runoff = 1.43 cfs @ 0.67 hrs, Volume= 0.310 af, Depth> 1.83"
 Routed to Pond I52 : Inlet 5-2

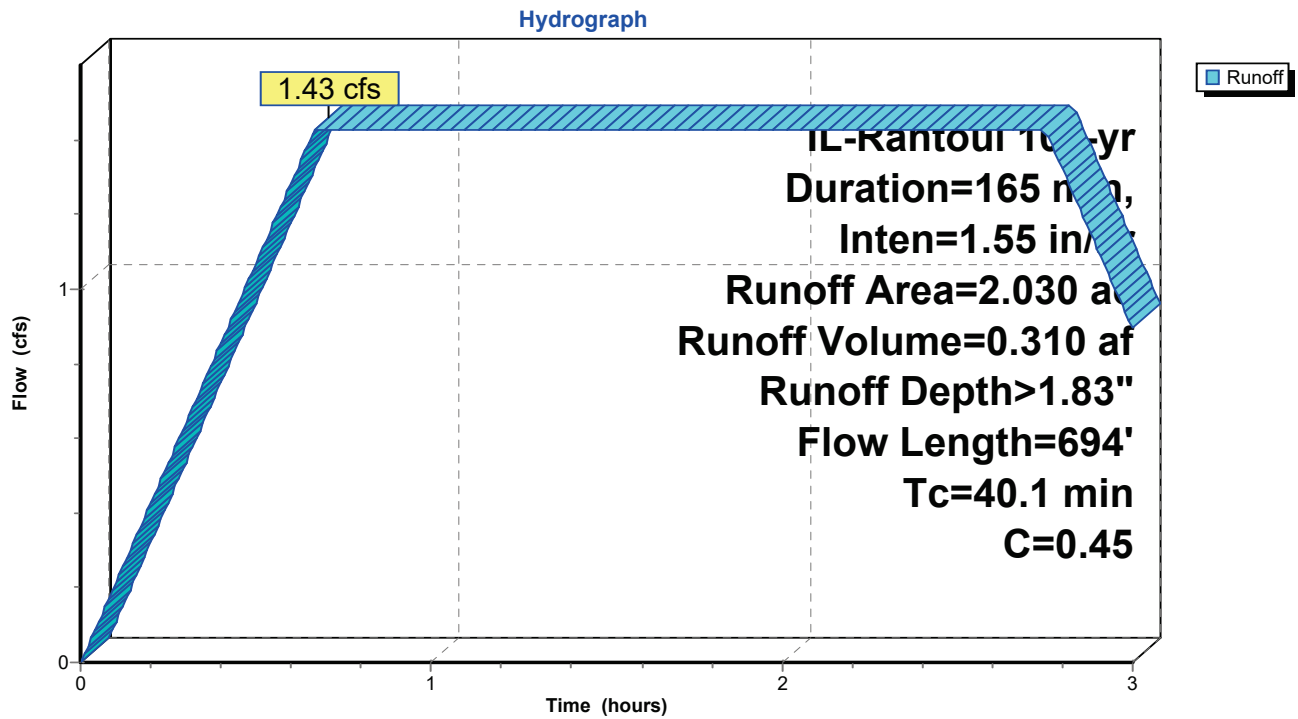
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.951	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.609	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.101	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.363	0.60	Gravel
0.006	0.95	Sidewalk
2.030	0.45	Weighted Average
2.024		99.70% Pervious Area
0.006		0.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.3	100	0.0020	0.07		Sheet Flow, Area E outside of property Grass: Short n= 0.150 P2= 3.03"
14.4	526	0.0076	0.61		Shallow Concentrated Flow, Area E outside of property Short Grass Pasture Kv= 7.0 fps
0.4	68	0.0248	2.54		Shallow Concentrated Flow, Parking N of building Unpaved Kv= 16.1 fps
40.1	694	Total			

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Subcatchment CA19: SE 2 Parking Area



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Summary for Subcatchment CA20: NE Parking Area

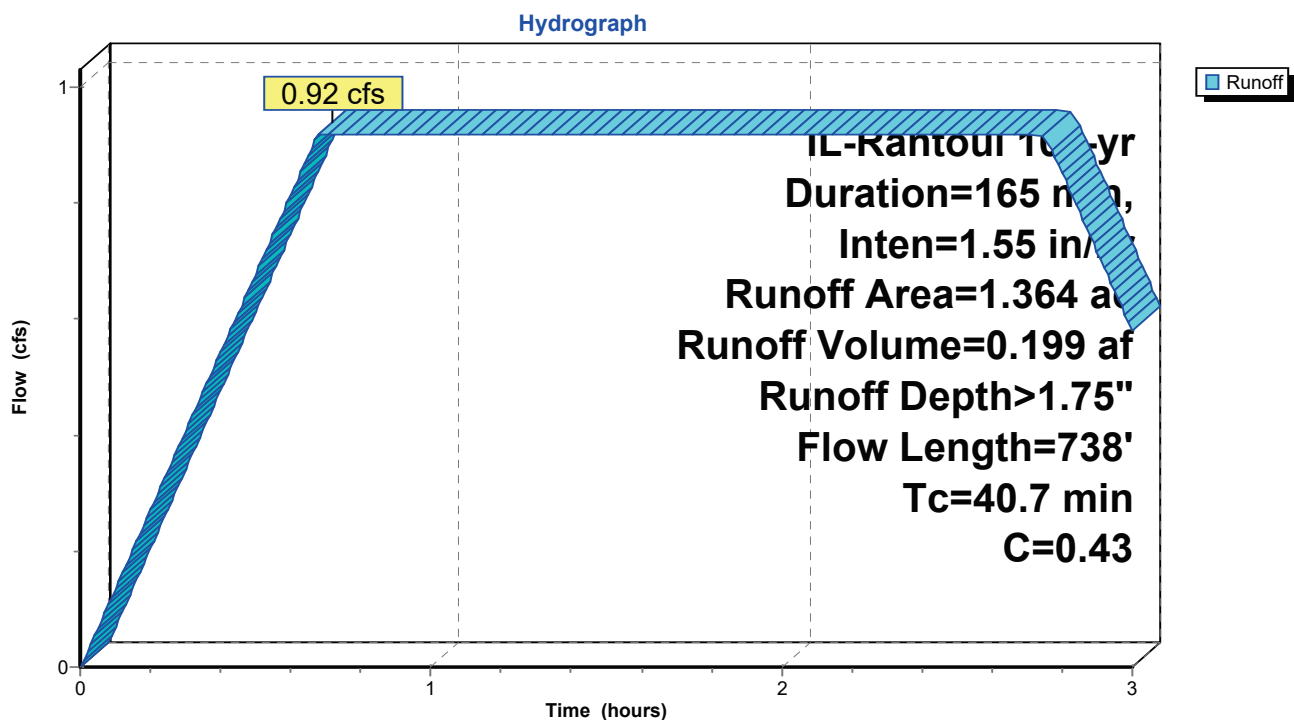
Runoff = 0.92 cfs @ 0.68 hrs, Volume= 0.199 af, Depth> 1.75"
 Routed to Pond I63 : Inlet 6-3

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.338	0.42	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C
0.319	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.362	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.345	0.60	Gravel
1.364	0.43	Weighted Average
1.364		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.3	100	0.0020	0.07		Sheet Flow, Area E outside of property Grass: Short n= 0.150 P2= 3.03"
14.8	568	0.0083	0.64		Shallow Concentrated Flow, Area E outside of property Short Grass Pasture Kv= 7.0 fps
0.6	70	0.0132	1.85		Shallow Concentrated Flow, Parking N of building Unpaved Kv= 16.1 fps
40.7	738	Total			

Subcatchment CA20: NE Parking Area



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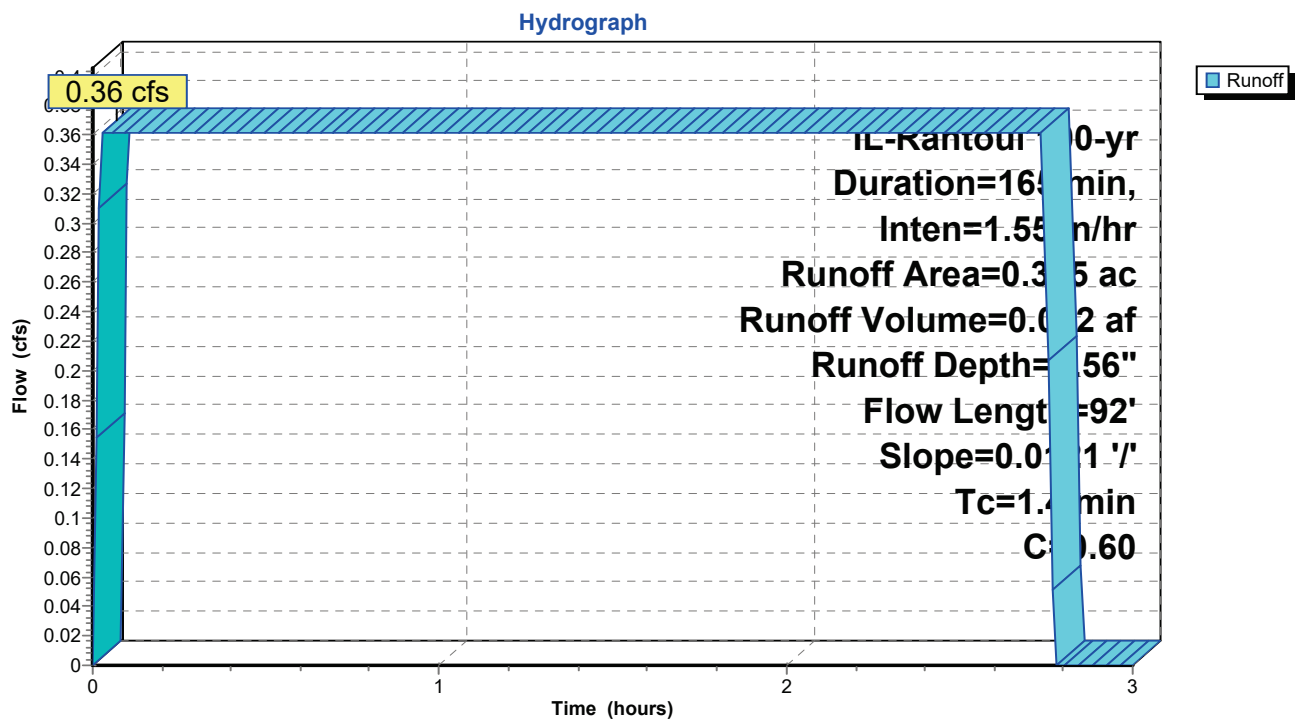
Summary for Subcatchment CA21: N Central Parking Area[70] Warning: $T_c < 8dt$ requires smaller dt

Runoff = 0.36 cfs @ 0.03 hrs, Volume= 0.082 af, Depth= 2.56"
 Routed to Pond I62 : Inlet 6-2

Runoff by Rational method, Rise/Fall=1.0/1.0 x T_c , Time Span= 0.00-3.00 hrs, $dt= 0.01$ hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.385	0.60	Gravel
0.385		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	92	0.0121	1.08		Sheet Flow, Parking Area
Smooth surfaces n= 0.011 P2= 3.03"					

Subcatchment CA21: N Central Parking Area

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Summary for Subcatchment CA22: S Central Parking Area

[70] Warning: Tc<8dt requires smaller dt

Runoff = 0.34 cfs @ 0.03 hrs, Volume= 0.078 af, Depth= 2.65"
 Routed to Pond I51 : Inlet 5-1

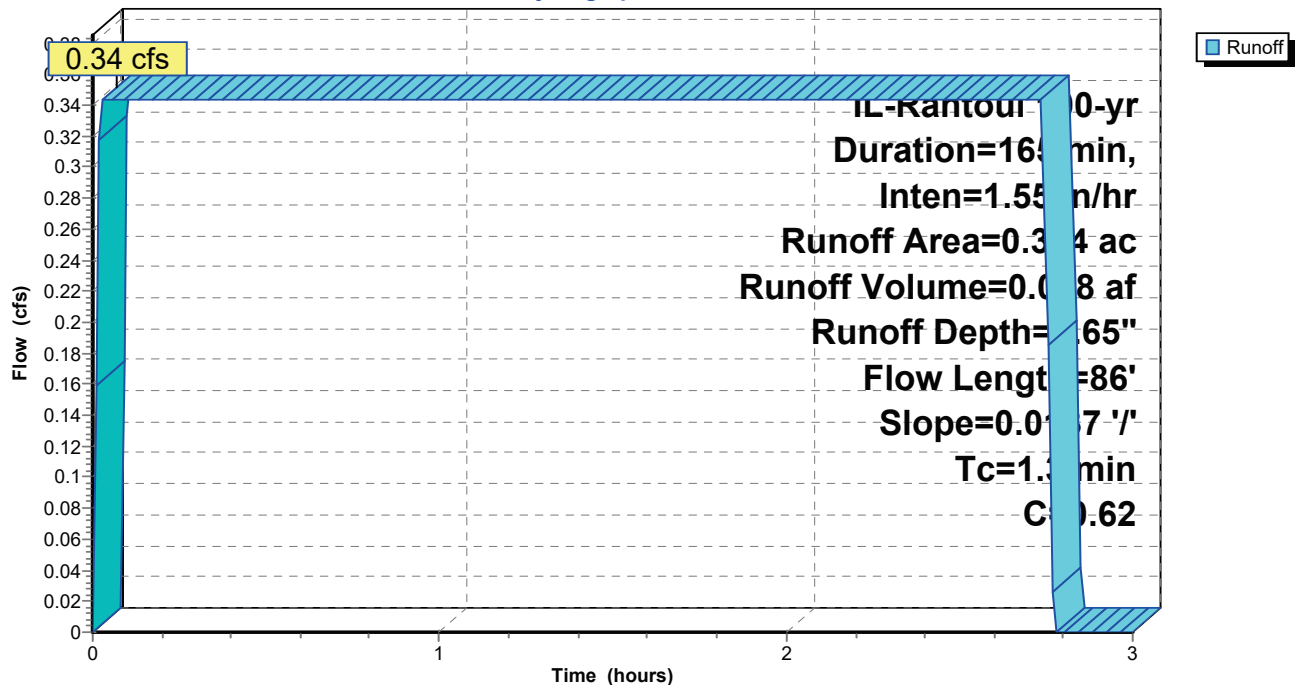
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.003	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.331	0.60	Gravel
0.020	0.95	Sidewalk
0.354	0.62	Weighted Average
0.334		94.35% Pervious Area
0.020		5.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	86	0.0137	1.12		Sheet Flow, Parking Area Smooth surfaces n= 0.011 P2= 3.03"

Subcatchment CA22: S Central Parking Area

Hydrograph



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Summary for Subcatchment CA23: NW Parking Area

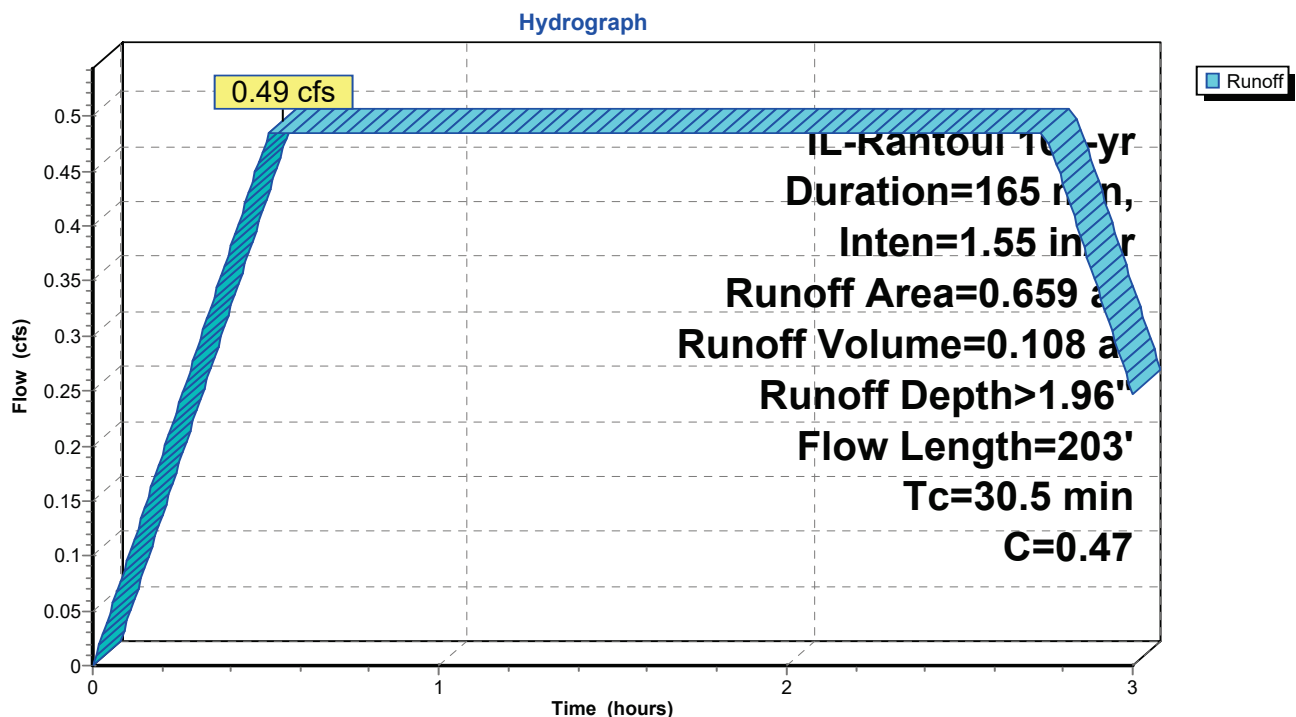
Runoff = 0.49 cfs @ 0.51 hrs, Volume= 0.108 af, Depth> 1.96"
 Routed to Pond I61 : Manhole 6-1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.296	0.30	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D
0.363	0.60	Gravel
0.659	0.47	Weighted Average
0.659		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	100	0.0014	0.06		Sheet Flow, Grass area N of building Grass: Short n= 0.150 P2= 3.03"
0.6	40	0.0238	1.08		Shallow Concentrated Flow, Grass area N of building Short Grass Pasture Kv= 7.0 fps
0.7	63	0.0096	1.58		Shallow Concentrated Flow, Parking N of building Unpaved Kv= 16.1 fps
30.5	203	Total			

Subcatchment CA23: NW Parking Area



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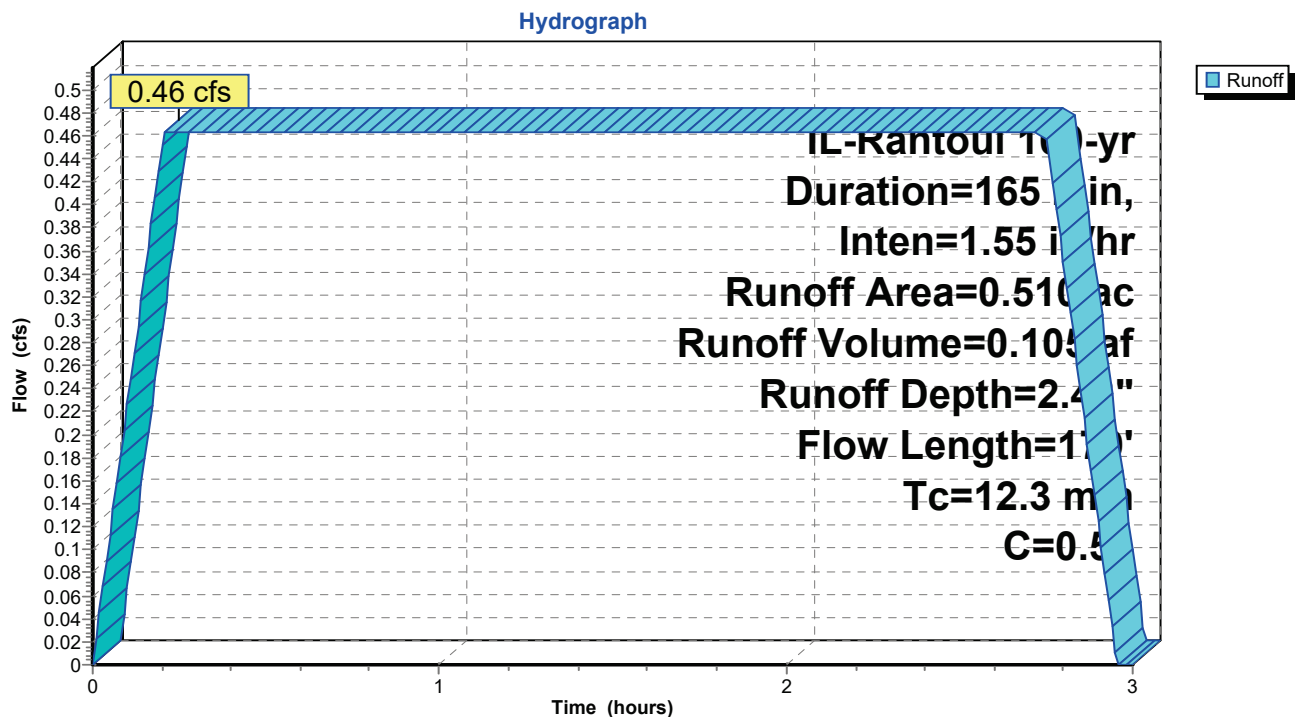
Summary for Subcatchment CA24: SW Parking Area

Runoff = 0.46 cfs @ 0.21 hrs, Volume= 0.105 af, Depth= 2.48"
 Routed to Pond I31 : Manhole 3-1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.001	0.42	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C
0.065	0.30	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D
0.015	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.394	0.60	Gravel
0.026	0.95	Sidewalk
0.009	0.95	Asphalt
0.510	0.58	Weighted Average
0.475		93.14% Pervious Area
0.035		6.86% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.4	78	0.0090	0.11		Sheet Flow, Grass area N of building Grass: Short n= 0.150 P2= 3.03"
0.9	101	0.0133	1.86		Shallow Concentrated Flow, Parking N of building Unpaved Kv= 16.1 fps
12.3	179	Total			

Subcatchment CA24: SW Parking Area

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Summary for Subcatchment CA6: Pond Catchment Area

[70] Warning: $T_c < 8dt$ requires smaller dt

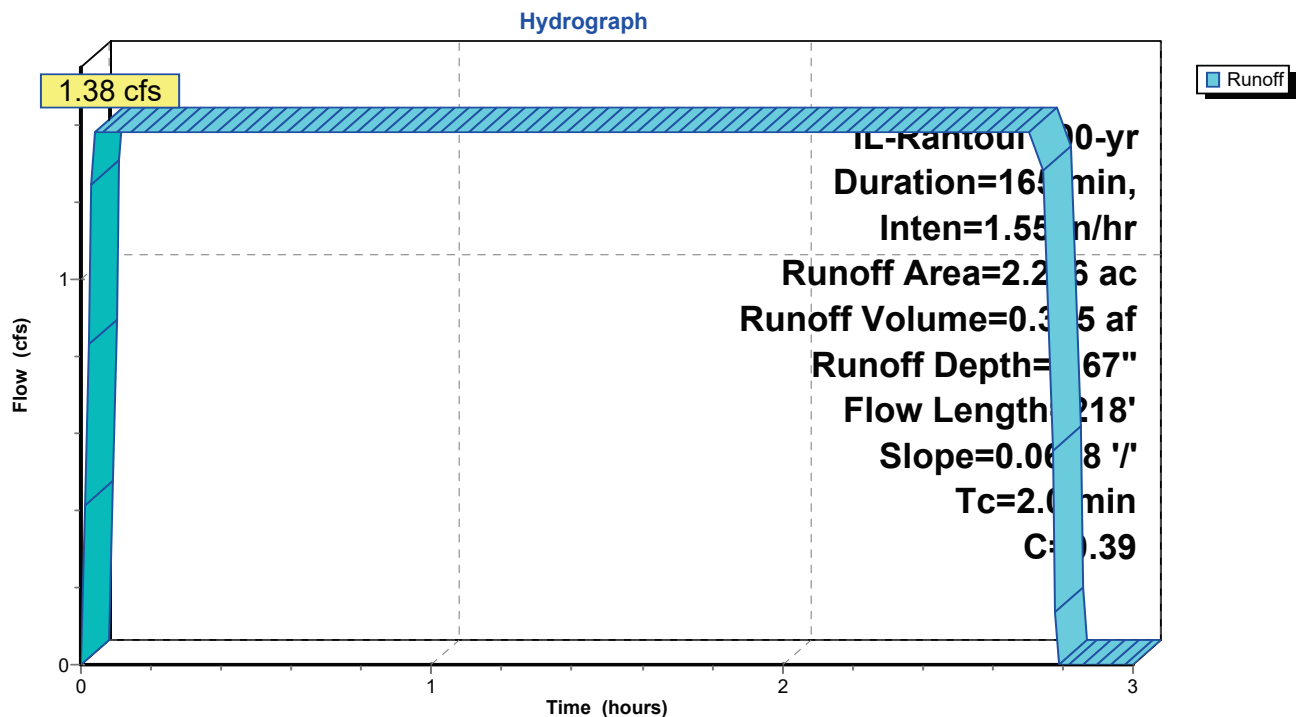
Runoff = 1.38 cfs @ 0.04 hrs, Volume= 0.315 af, Depth= 1.67"
 Routed to Pond P1 : Detention Pond

Runoff by Rational method, Rise/Fall=1.0/1.0 x T_c , Time Span= 0.00-3.00 hrs, dt = 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.523	0.30	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D
1.385	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.063	0.40	Orthents, loamy, 1 to 7 percent slopes (802B), Well drained, HSG C
0.005	0.95	Concrete
0.290	0.95	Building
2.266	0.39	Weighted Average
1.971		86.98% Pervious Area
0.295		13.02% Impervious Area

T_c (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	218	0.0698	1.85		Shallow Concentrated Flow, Grass area W of parking area Short Grass Pasture K_v = 7.0 fps

Subcatchment CA6: Pond Catchment Area



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Summary for Subcatchment CA7: NE Station Area

Runoff = 0.61 cfs @ 0.27 hrs, Volume= 0.139 af, Depth> 2.22"
 Routed to Pond I17 : Trench Drain 1-7

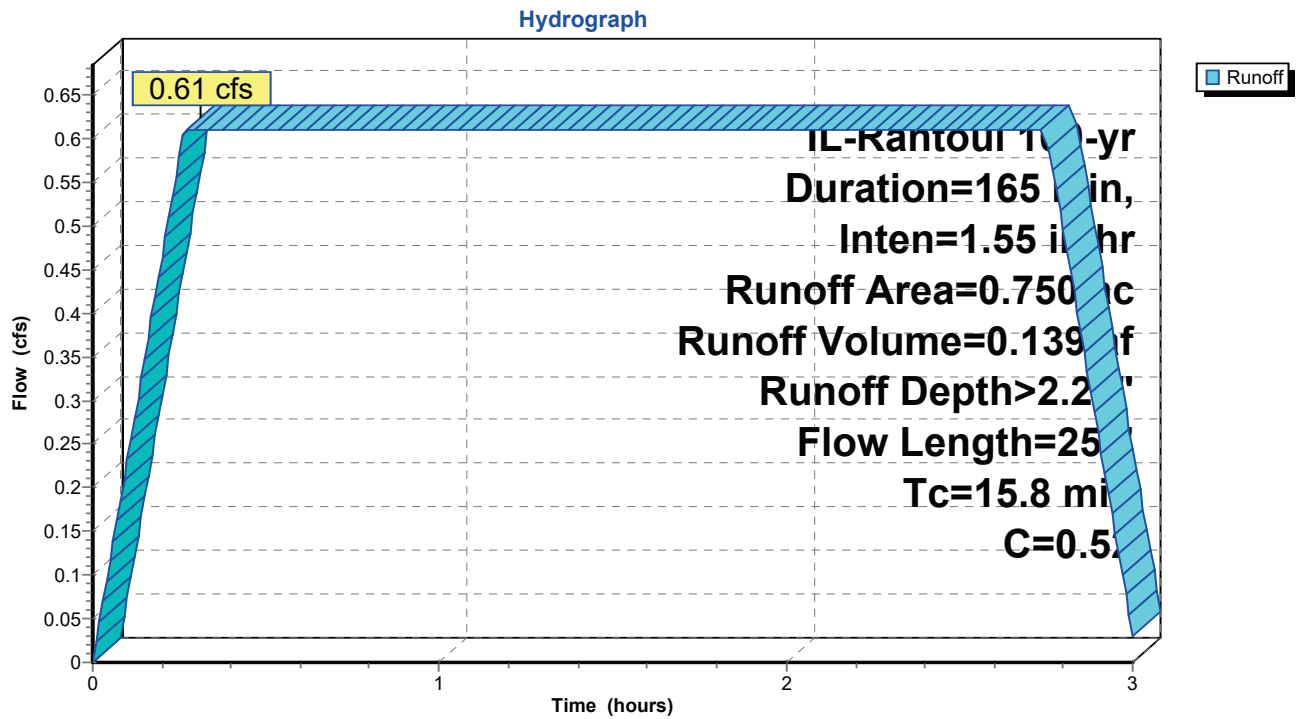
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.479	0.30	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D
0.022	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.249	0.95	Asphalt
0.750	0.52	Weighted Average
0.501		66.80% Pervious Area
0.249		33.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.2	100	0.0084	0.12		Sheet Flow, Parking N of building Grass: Short n= 0.150 P2= 3.03"
0.6	50	0.0042	1.32		Shallow Concentrated Flow, Parking N of building Paved Kv= 20.3 fps
0.0	13	0.0927	6.18		Shallow Concentrated Flow, Parking N of building Paved Kv= 20.3 fps
1.0	95	0.0560	1.66		Shallow Concentrated Flow, Parking N of building Short Grass Pasture Kv= 7.0 fps
15.8	258	Total			

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Subcatchment CA7: NE Station Area



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Summary for Subcatchment CA8: East Station Area

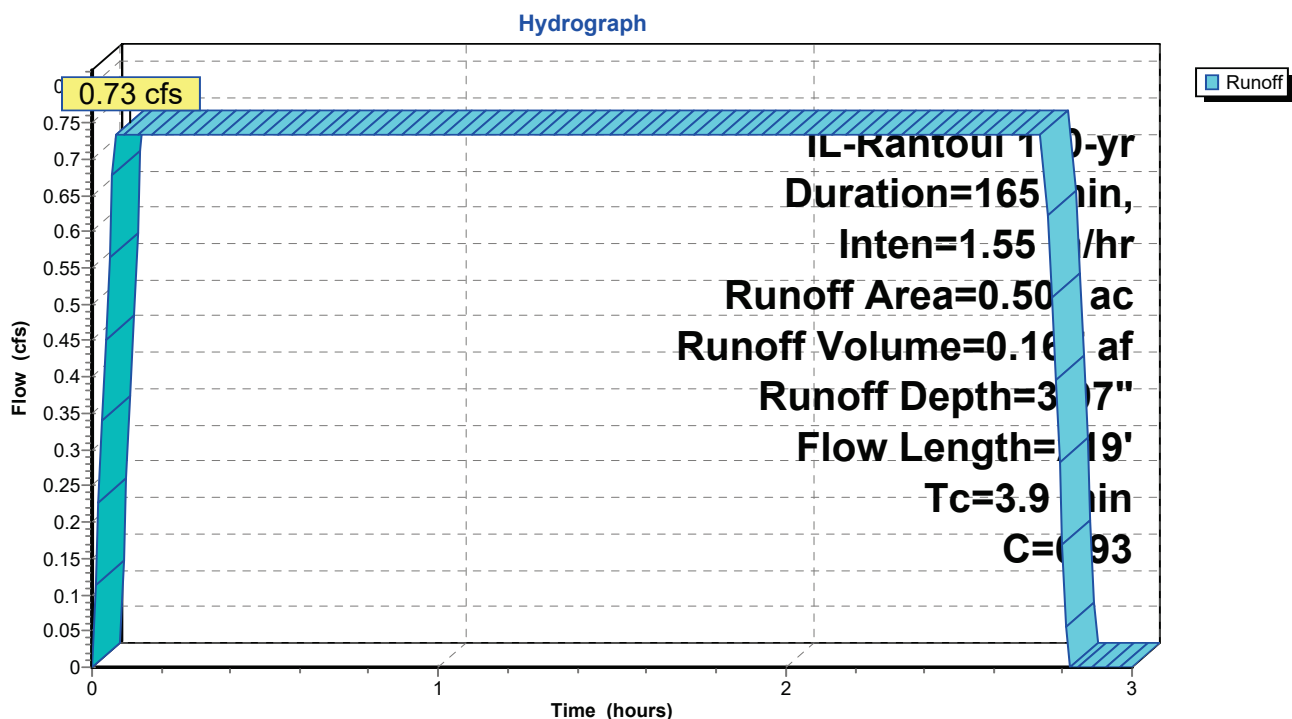
[70] Warning: Tc<8dt requires smaller dt

Runoff = 0.73 cfs @ 0.07 hrs, Volume= 0.167 af, Depth= 3.97"
 Routed to Pond I16 : Inlet 1-6

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.012	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.492	0.95	Asphalt
0.504	0.93	Weighted Average
0.012		2.38% Pervious Area
0.492		97.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0087	0.96		Sheet Flow, Grass area W of parking area Smooth surfaces n= 0.011 P2= 3.03"
2.2	119	0.0019	0.88		Shallow Concentrated Flow, Grass area W of parking area Paved Kv= 20.3 fps
3.9	219	Total			

Subcatchment CA8: East Station Area

340656 - Rantoul Transfer Station - Pro IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

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Summary for Subcatchment CA9: SE Station Area

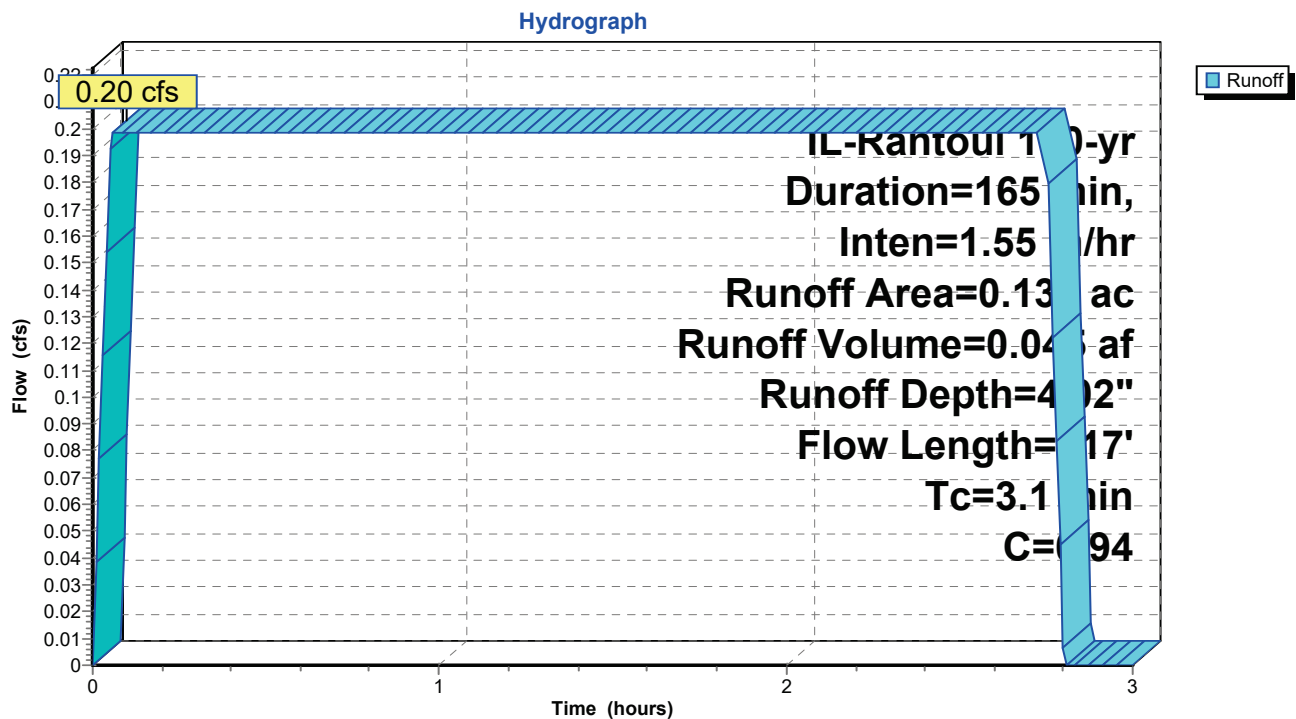
[70] Warning: Tc<8dt requires smaller dt

Runoff = 0.20 cfs @ 0.06 hrs, Volume= 0.045 af, Depth= 4.02"
 Routed to Pond I19 : Inlet 1-9

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 IL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

Area (ac)	C	Description
0.002	0.30	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D
0.133	0.95	Asphalt
0.135	0.94	Weighted Average
0.002		1.48% Pervious Area
0.133		98.52% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	100	0.0023	0.56		Sheet Flow, Access Road Smooth surfaces n= 0.011 P2= 3.03"
0.1	17	0.0253	3.23		Shallow Concentrated Flow, Access Road Paved Kv= 20.3 fps
3.1	117	Total			

Subcatchment CA9: SE Station Area

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Summary for Reach R13: Pipe CA13 to I81

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 0.167 ac, 97.60% Impervious, Inflow Depth = 3.97" for 100-yr event
 Inflow = 0.24 cfs @ 0.02 hrs, Volume= 0.055 af
 Outflow = 0.24 cfs @ 0.32 hrs, Volume= 0.055 af, Atten= 0%, Lag= 18.0 min
 Routed to Pond I81 : Inlet 8-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.11 fps, Min. Travel Time= 0.8 min

Avg. Velocity= 2.92 fps, Avg. Travel Time= 0.9 min

Peak Storage= 12 cf @ 0.32 hrs

Average Depth at Peak Storage= 0.16' , Surface Width= 0.73'

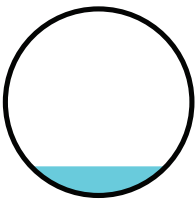
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 4.61 cfs

12.0" Round Pipe

n= 0.010 PVC, smooth interior

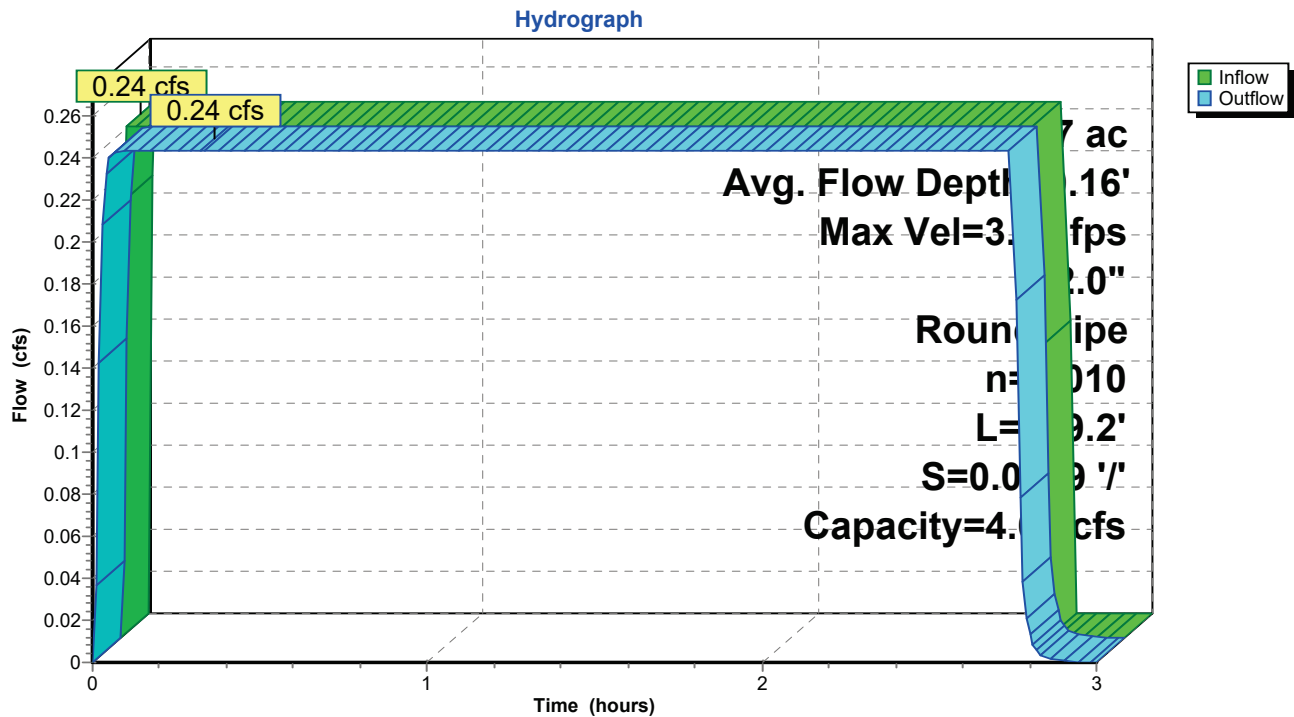
Length= 149.2' Slope= 0.0099 '/'

Inlet Invert= 750.17', Outlet Invert= 748.69'



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Reach R13: Pipe CA13 to I81



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Summary for Reach R14: Pipe I14 to Pond

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 9.773 ac, 23.45% Impervious, Inflow Depth > 2.37" for 100-yr event
 Inflow = 8.68 cfs @ 0.98 hrs, Volume= 1.934 af
 Outflow = 8.68 cfs @ 0.99 hrs, Volume= 1.933 af, Atten= 0%, Lag= 0.5 min
 Routed to Pond P1 : Detention Pond

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 11.08 fps, Min. Travel Time= 0.2 min

Avg. Velocity= 10.58 fps, Avg. Travel Time= 0.2 min

Peak Storage= 116 cf @ 0.99 hrs

Average Depth at Peak Storage= 0.59' , Surface Width= 1.83'

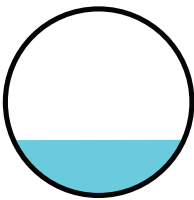
Bank-Full Depth= 2.00' Flow Area= 3.1 sf, Capacity= 45.04 cfs

24.0" Round Pipe

n= 0.012 Steel, smooth

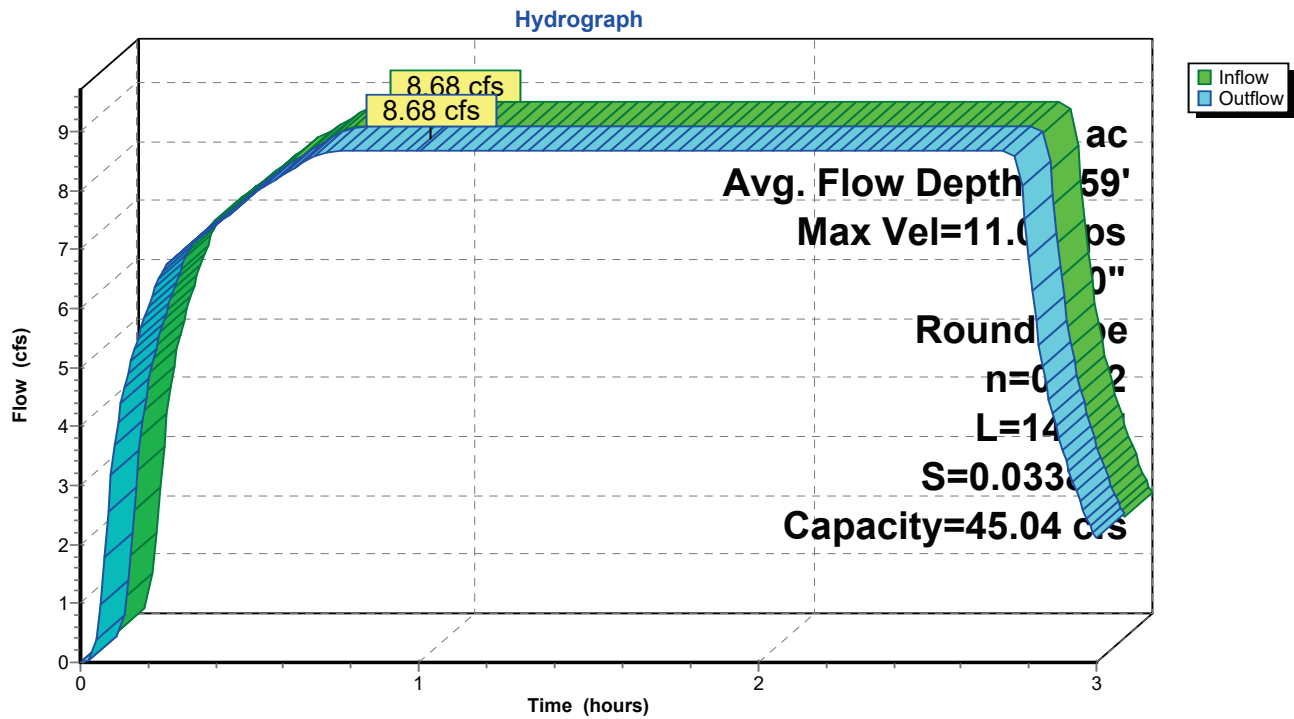
Length= 148.6' Slope= 0.0338 '/'

Inlet Invert= 741.84', Outlet Invert= 736.82'



340656 - Rantoul Transfer Station - Pro *L-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr*
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Reach R14: Pipe I14 to Pond



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Summary for Reach R15: Pipe I15 to I18

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 9.638 ac, 22.40% Impervious, Inflow Depth > 2.35" for 100-yr event
 Inflow = 8.48 cfs @ 0.98 hrs, Volume= 1.891 af
 Outflow = 8.48 cfs @ 0.98 hrs, Volume= 1.889 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond I18 : Catch Basin 1-8

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 7.16 fps, Min. Travel Time= 0.3 min

Avg. Velocity= 6.85 fps, Avg. Travel Time= 0.4 min

Peak Storage= 174 cf @ 0.98 hrs

Average Depth at Peak Storage= 0.81' , Surface Width= 1.96'

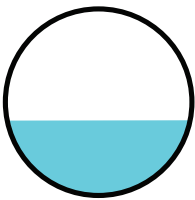
Bank-Full Depth= 2.00' Flow Area= 3.1 sf, Capacity= 24.84 cfs

24.0" Round Pipe

n= 0.012 Steel, smooth

Length= 147.0' Slope= 0.0103 '/'

Inlet Invert= 744.87', Outlet Invert= 743.36'



340656 - Rantoul Transfer Station - Pro/L-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

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Summary for Reach R16: Pipe I16 to I21

[52] Hint: Inlet/Outlet conditions not evaluated

[80] Warning: Exceeded Pond I16 by 0.09' @ 2.82 hrs (0.04 cfs 0.000 af)

Inflow Area = 0.504 ac, 97.62% Impervious, Inflow Depth = 3.97" for 100-yr event
 Inflow = 0.73 cfs @ 0.13 hrs, Volume= 0.167 af
 Outflow = 0.73 cfs @ 0.19 hrs, Volume= 0.167 af, Atten= 0%, Lag= 3.6 min
 Routed to Pond I21 : Inlet 2-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.83 fps, Min. Travel Time= 0.5 min

Avg. Velocity = 3.60 fps, Avg. Travel Time= 0.5 min

Peak Storage= 21 cf @ 0.19 hrs

Average Depth at Peak Storage= 0.29' , Surface Width= 0.91'

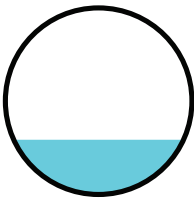
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 3.93 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

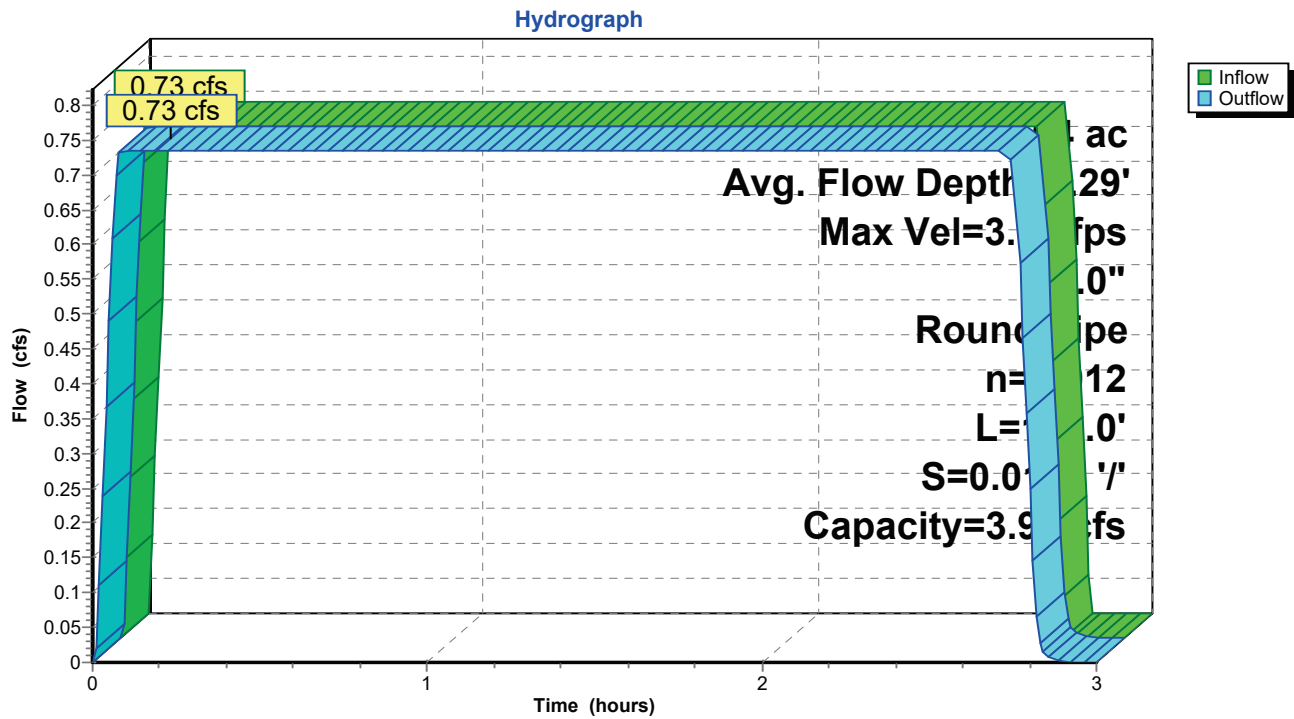
Length= 108.0' Slope= 0.0104 '/'

Inlet Invert= 749.30', Outlet Invert= 748.18'



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Reach R16: Pipe I16 to I21



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Summary for Reach R17: Pipe I17 to Pond

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 0.750 ac, 33.20% Impervious, Inflow Depth > 2.22" for 100-yr event
 Inflow = 0.61 cfs @ 0.27 hrs, Volume= 0.139 af
 Outflow = 0.61 cfs @ 0.27 hrs, Volume= 0.139 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond P1 : Detention Pond

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 6.74 fps, Min. Travel Time= 0.0 min

Avg. Velocity= 6.50 fps, Avg. Travel Time= 0.1 min

Peak Storage= 2 cf @ 0.27 hrs

Average Depth at Peak Storage= 0.24' , Surface Width= 0.50'

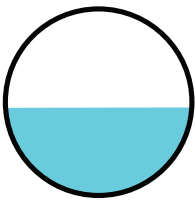
Bank-Full Depth= 0.50' Flow Area= 0.2 sf, Capacity= 1.36 cfs

6.0" Round Pipe

n= 0.012 Steel, smooth

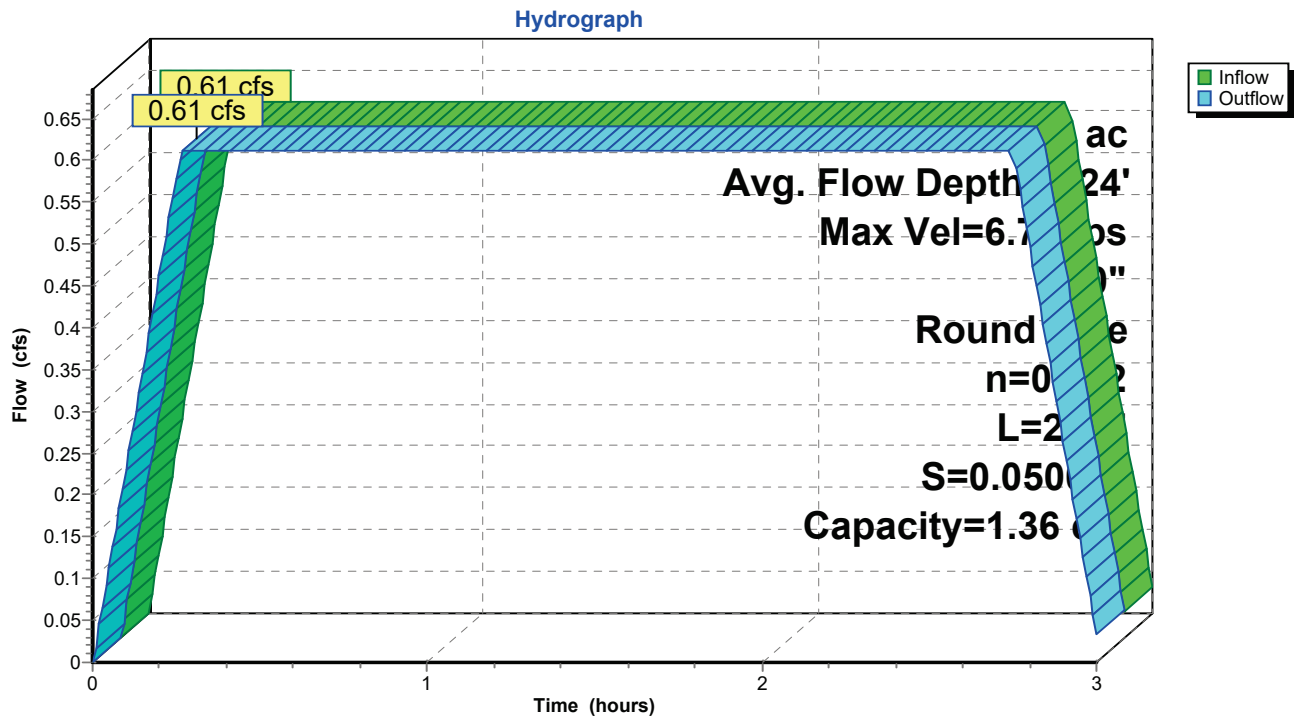
Length= 20.0' Slope= 0.0500 '/'

Inlet Invert= 745.50', Outlet Invert= 744.50'



340656 - Rantoul Transfer Station - Pro/L-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr
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Reach R17: Pipe I17 to Pond



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Summary for Reach R18: Pipe I18 to I14

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 9.773 ac, 23.45% Impervious, Inflow Depth > 2.38" for 100-yr event
 Inflow = 8.68 cfs @ 1.01 hrs, Volume= 1.934 af
 Outflow = 8.68 cfs @ 0.99 hrs, Volume= 1.934 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond I14 : Inlet 1-4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 12.22 fps, Min. Travel Time= 0.2 min

Avg. Velocity= 11.69 fps, Avg. Travel Time= 0.2 min

Peak Storage= 104 cf @ 0.99 hrs

Average Depth at Peak Storage= 0.55' , Surface Width= 1.79'

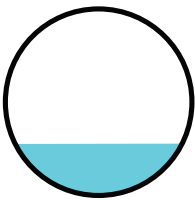
Bank-Full Depth= 2.00' Flow Area= 3.1 sf, Capacity= 51.69 cfs

24.0" Round Pipe

n= 0.012 Steel, smooth

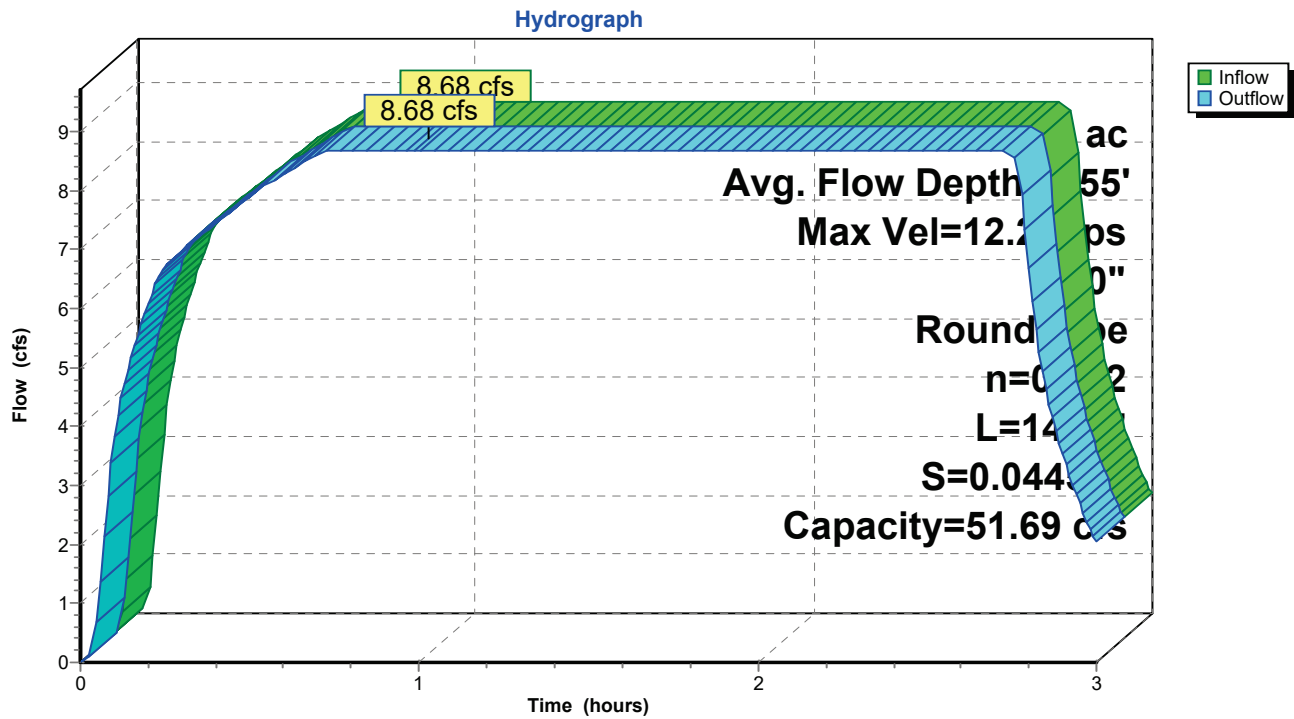
Length= 147.0' Slope= 0.0445 '/'

Inlet Invert= 743.36', Outlet Invert= 736.82'



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Reach R18: Pipe I18 to I14



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Summary for Reach R19: Pipe I19 to I14

[52] Hint: Inlet/Outlet conditions not evaluated

[80] Warning: Exceeded Pond I19 by 0.01' @ 2.82 hrs (0.00 cfs 0.000 af)

Inflow Area = 0.135 ac, 98.52% Impervious, Inflow Depth = 4.02" for 100-yr event
 Inflow = 0.20 cfs @ 0.23 hrs, Volume= 0.045 af
 Outflow = 0.20 cfs @ 0.06 hrs, Volume= 0.045 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond I18 : Catch Basin 1-8

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.37 fps, Min. Travel Time= 0.2 min

Avg. Velocity= 4.28 fps, Avg. Travel Time= 0.2 min

Peak Storage= 2 cf @ 0.06 hrs

Average Depth at Peak Storage= 0.11' , Surface Width= 0.62'

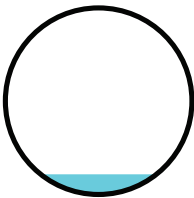
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 8.15 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

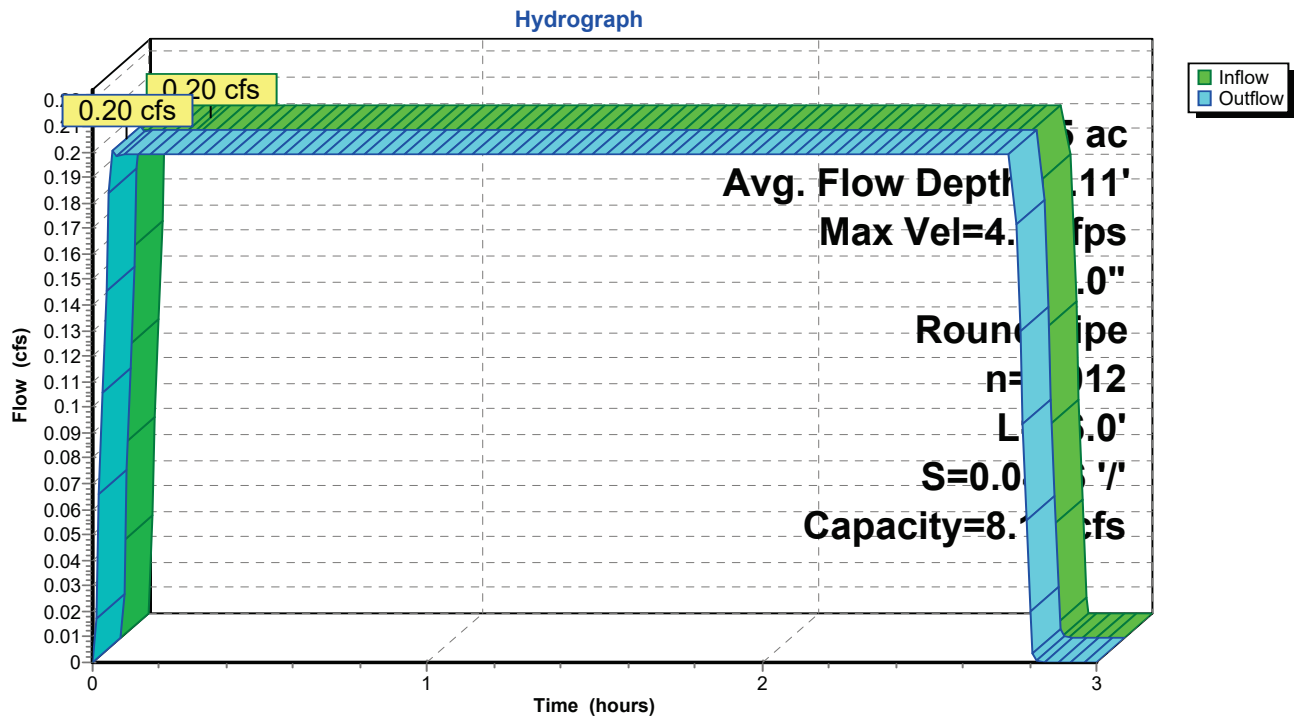
Length= 46.0' Slope= 0.0446 '/'

Inlet Invert= 745.41', Outlet Invert= 743.36'



340656 - Rantoul Transfer Station - Pro/L-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr
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Reach R19: Pipe I19 to I14



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Summary for Reach R21: Pipe I21 to I15

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 7.115 ac, 15.50% Impervious, Inflow Depth > 2.23" for 100-yr event
 Inflow = 5.97 cfs @ 0.94 hrs, Volume= 1.325 af
 Outflow = 5.97 cfs @ 0.98 hrs, Volume= 1.322 af, Atten= 0%, Lag= 2.4 min
 Routed to Pond I15 : Inlet 1-5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 5.02 fps, Min. Travel Time= 0.7 min

Avg. Velocity= 4.80 fps, Avg. Travel Time= 0.8 min

Peak Storage= 266 cf @ 0.98 hrs

Average Depth at Peak Storage= 0.81' , Surface Width= 1.96'

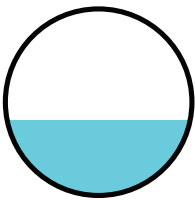
Bank-Full Depth= 2.00' Flow Area= 3.1 sf, Capacity= 17.37 cfs

24.0" Round Pipe

n= 0.012 Steel, smooth

Length= 223.0' Slope= 0.0050 '/'

Inlet Invert= 746.00', Outlet Invert= 744.88'



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Summary for Reach R31: Pipe I31 to I21

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 5.458 ac, 1.12% Impervious, Inflow Depth > 2.00" for 100-yr event
 Inflow = 4.13 cfs @ 0.91 hrs, Volume= 0.909 af
 Outflow = 4.13 cfs @ 0.94 hrs, Volume= 0.907 af, Atten= 0%, Lag= 1.8 min
 Routed to Pond I21 : Inlet 2-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.09 fps, Min. Travel Time= 0.6 min

Avg. Velocity= 3.91 fps, Avg. Travel Time= 0.7 min

Peak Storage= 156 cf @ 0.94 hrs

Average Depth at Peak Storage= 0.84' , Surface Width= 1.49'

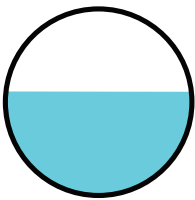
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 6.92 cfs

18.0" Round Pipe

n= 0.012 Steel, smooth

Length= 154.3' Slope= 0.0037 '/'

Inlet Invert= 747.75', Outlet Invert= 747.18'



340656 - Rantoul Transfer Station - Pro/L-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

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Summary for Reach R41: Pipe I41 to I31

[52] Hint: Inlet/Outlet conditions not evaluated

[80] Warning: Exceeded Pond I41 by 0.29' @ 2.78 hrs (0.35 cfs 0.001 af)

Inflow Area = 0.503 ac, 100.00% Impervious, Inflow Depth = 4.06" for 100-yr event
 Inflow = 0.75 cfs @ 0.59 hrs, Volume= 0.170 af
 Outflow = 0.75 cfs @ 0.98 hrs, Volume= 0.170 af, Atten= 0%, Lag= 23.4 min
 Routed to Pond I21 : Inlet 2-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 2.48 fps, Min. Travel Time= 2.2 min

Avg. Velocity= 2.36 fps, Avg. Travel Time= 2.3 min

Peak Storage= 98 cf @ 0.98 hrs

Average Depth at Peak Storage= 0.41' , Surface Width= 0.98'

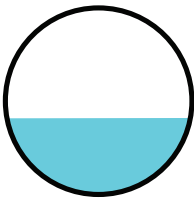
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 2.14 cfs

12.0" Round Pipe

n= 0.010 PVC, smooth interior

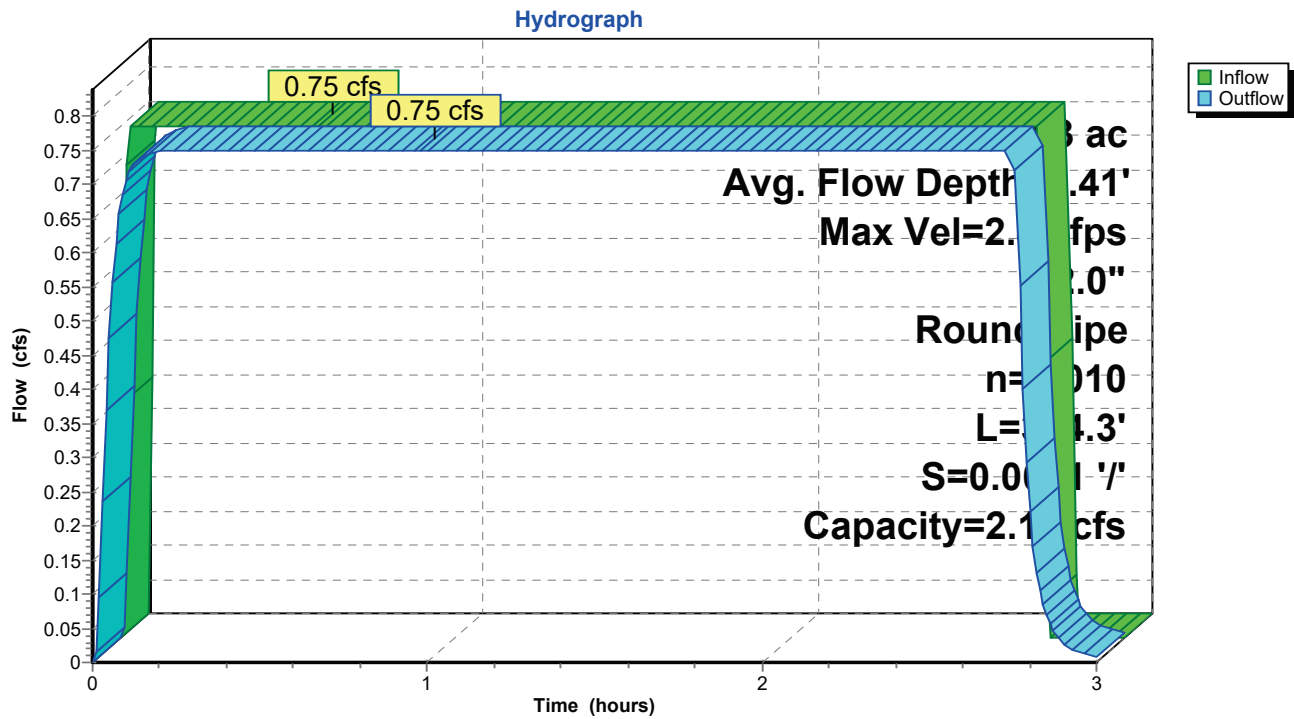
Length= 324.3' Slope= 0.0021 '/'

Inlet Invert= 748.86', Outlet Invert= 748.17'



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Reach R41: Pipe I41 to I31



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Summary for Reach R51: Pipe I51 to I31

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 2.540 ac, 1.02% Impervious, Inflow Depth > 1.97" for 100-yr event
 Inflow = 1.90 cfs @ 0.77 hrs, Volume= 0.417 af
 Outflow = 1.90 cfs @ 0.78 hrs, Volume= 0.417 af, Atten= 0%, Lag= 0.6 min
 Routed to Pond I31 : Manhole 3-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.97 fps, Min. Travel Time= 0.4 min

Avg. Velocity= 4.74 fps, Avg. Travel Time= 0.4 min

Peak Storage= 48 cf @ 0.78 hrs

Average Depth at Peak Storage= 0.44' , Surface Width= 1.19'

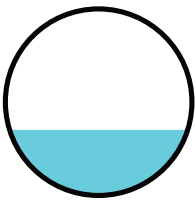
Bank-Full Depth= 1.25' Flow Area= 1.2 sf, Capacity= 7.22 cfs

15.0" Round Pipe

n= 0.012 Steel, smooth

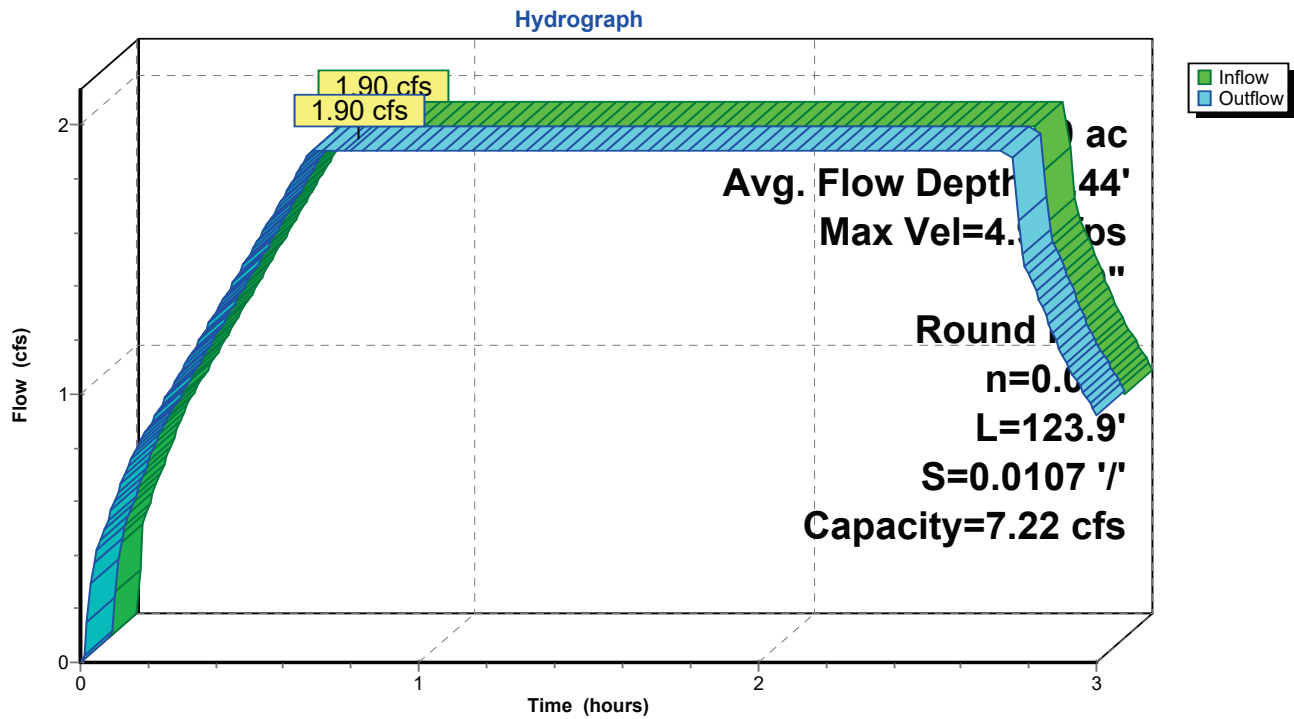
Length= 123.9' Slope= 0.0107 '/'

Inlet Invert= 749.07', Outlet Invert= 747.75'



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Reach R51: Pipe I51 to I31



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Summary for Reach R52: Pipe I52 to I51

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 2.186 ac, 0.27% Impervious, Inflow Depth > 1.86" for 100-yr event
 Inflow = 1.56 cfs @ 0.67 hrs, Volume= 0.340 af
 Outflow = 1.56 cfs @ 0.77 hrs, Volume= 0.339 af, Atten= 0%, Lag= 6.0 min
 Routed to Pond I51 : Inlet 5-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.43 fps, Min. Travel Time= 0.4 min

Avg. Velocity= 4.20 fps, Avg. Travel Time= 0.5 min

Peak Storage= 40 cf @ 0.77 hrs

Average Depth at Peak Storage= 0.46' , Surface Width= 1.00'

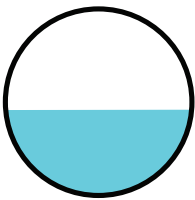
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 3.61 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

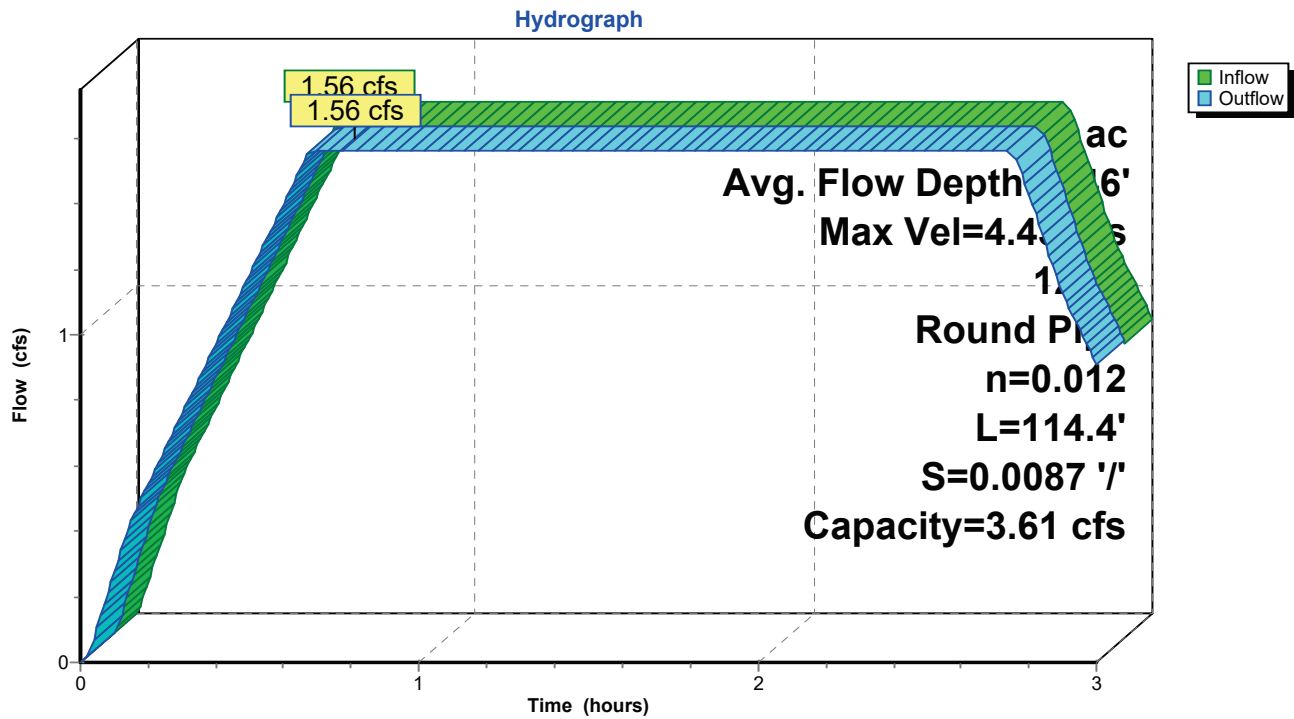
Length= 114.4' Slope= 0.0087 '/'

Inlet Invert= 750.10', Outlet Invert= 749.10'



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Reach R52: Pipe I52 to I51



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Summary for Reach R53: Pipe I53 to I52

[52] Hint: Inlet/Outlet conditions not evaluated

[80] Warning: Exceeded Pond I53 by 0.04' @ 2.89 hrs (0.01 cfs 0.000 af)

Inflow Area = 0.156 ac, 0.00% Impervious, Inflow Depth = 2.26" for 100-yr event
 Inflow = 0.13 cfs @ 0.26 hrs, Volume= 0.029 af
 Outflow = 0.13 cfs @ 0.33 hrs, Volume= 0.029 af, Atten= 0%, Lag= 4.2 min
 Routed to Pond I52 : Inlet 5-2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 1.76 fps, Min. Travel Time= 0.6 min

Avg. Velocity= 1.67 fps, Avg. Travel Time= 0.6 min

Peak Storage= 5 cf @ 0.33 hrs

Average Depth at Peak Storage= 0.20' , Surface Width= 0.49'

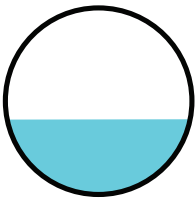
Bank-Full Depth= 0.50' Flow Area= 0.2 sf, Capacity= 0.38 cfs

6.0" Round Pipe

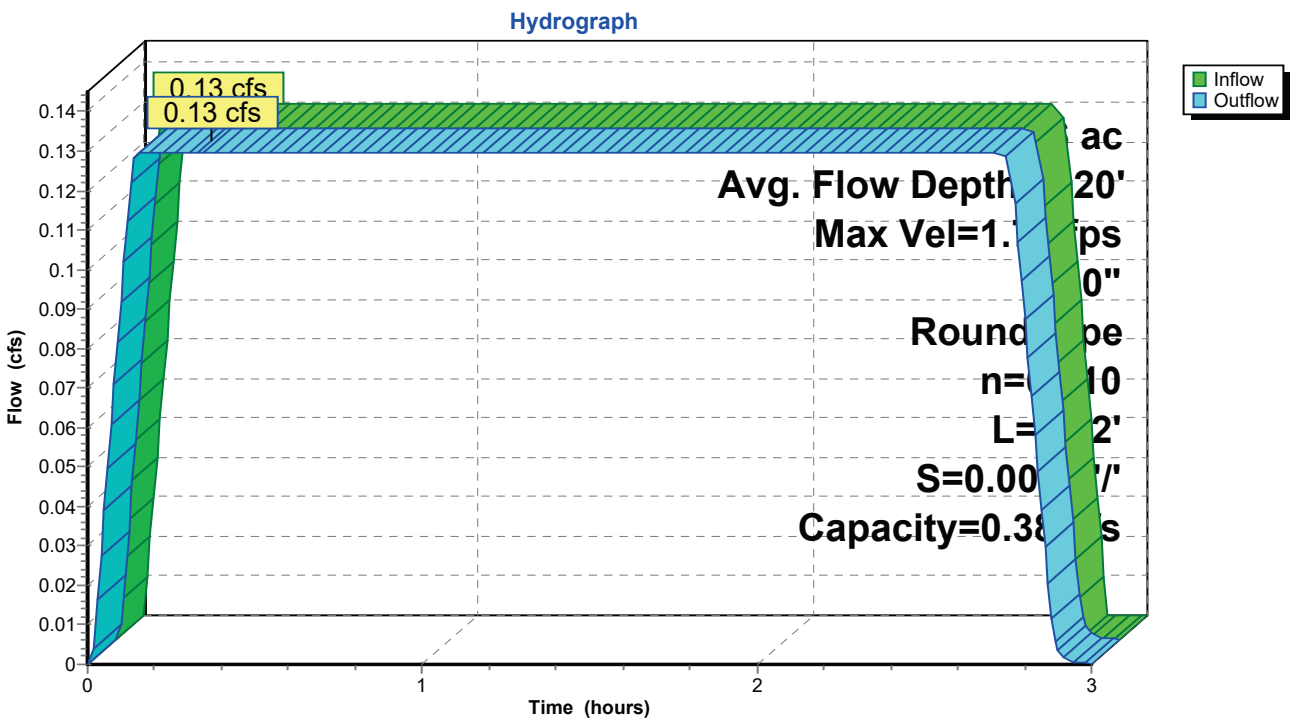
n= 0.010 PVC, smooth interior

Length= 62.2' Slope= 0.0027 '/'

Inlet Invert= 750.43', Outlet Invert= 750.26'



Reach R53: Pipe I53 to I52



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Summary for Reach R54: Pipe I54 to I63

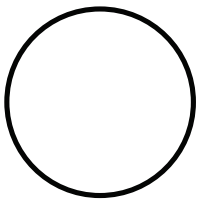
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond I63 : Inlet 6-3

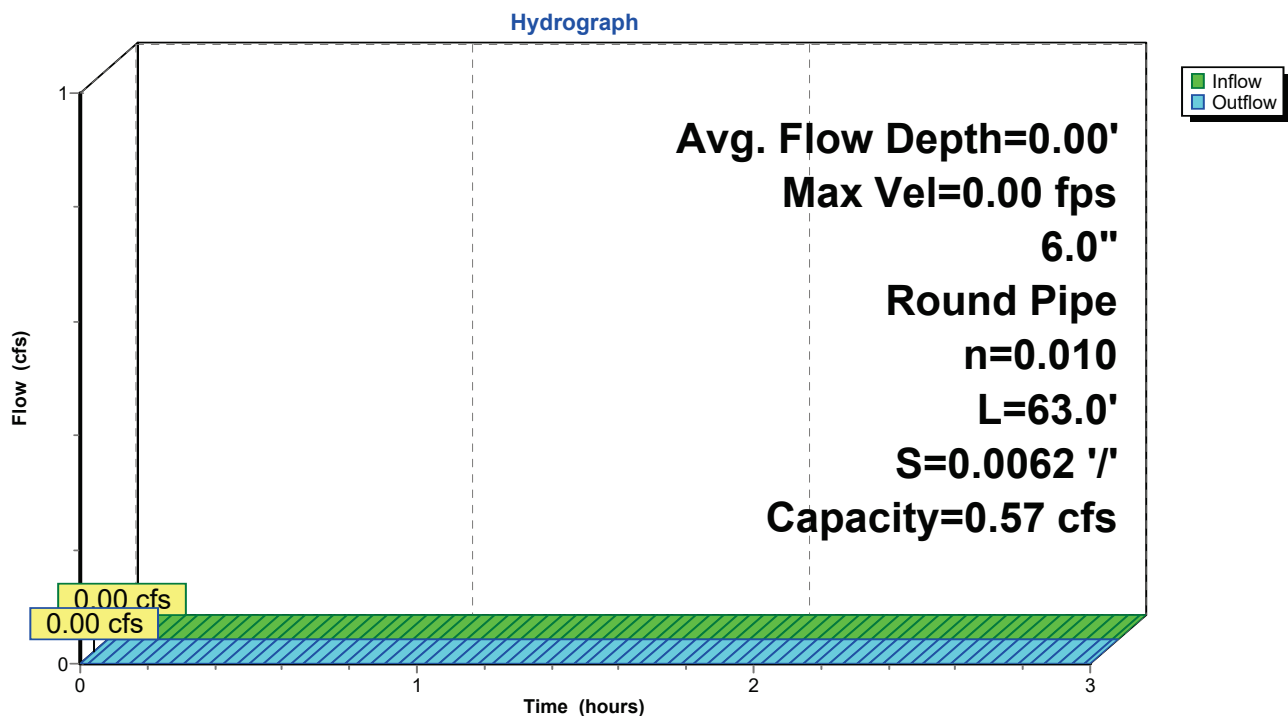
Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min
 Avg. Velocity= 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs
 Average Depth at Peak Storage= 0.00'
 Bank-Full Depth= 0.50' Flow Area= 0.2 sf, Capacity= 0.57 cfs

6.0" Round Pipe
 n= 0.010 PVC, smooth interior
 Length= 63.0' Slope= 0.0062 '/
 Inlet Invert= 750.30', Outlet Invert= 749.91'



Reach R54: Pipe I54 to I63



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Summary for Reach R61: Pipe I61 to I31

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 2.408 ac, 0.00% Impervious, Inflow Depth > 1.93" for 100-yr event
 Inflow = 1.77 cfs @ 0.90 hrs, Volume= 0.388 af
 Outflow = 1.77 cfs @ 0.92 hrs, Volume= 0.387 af, Atten= 0%, Lag= 1.2 min
 Routed to Pond I31 : Manhole 3-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.94 fps, Min. Travel Time= 0.6 min

Avg. Velocity= 3.77 fps, Avg. Travel Time= 0.6 min

Peak Storage= 60 cf @ 0.92 hrs

Average Depth at Peak Storage= 0.49' , Surface Width= 1.22'

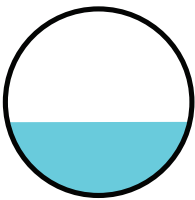
Bank-Full Depth= 1.25' Flow Area= 1.2 sf, Capacity= 5.41 cfs

15.0" Round Pipe

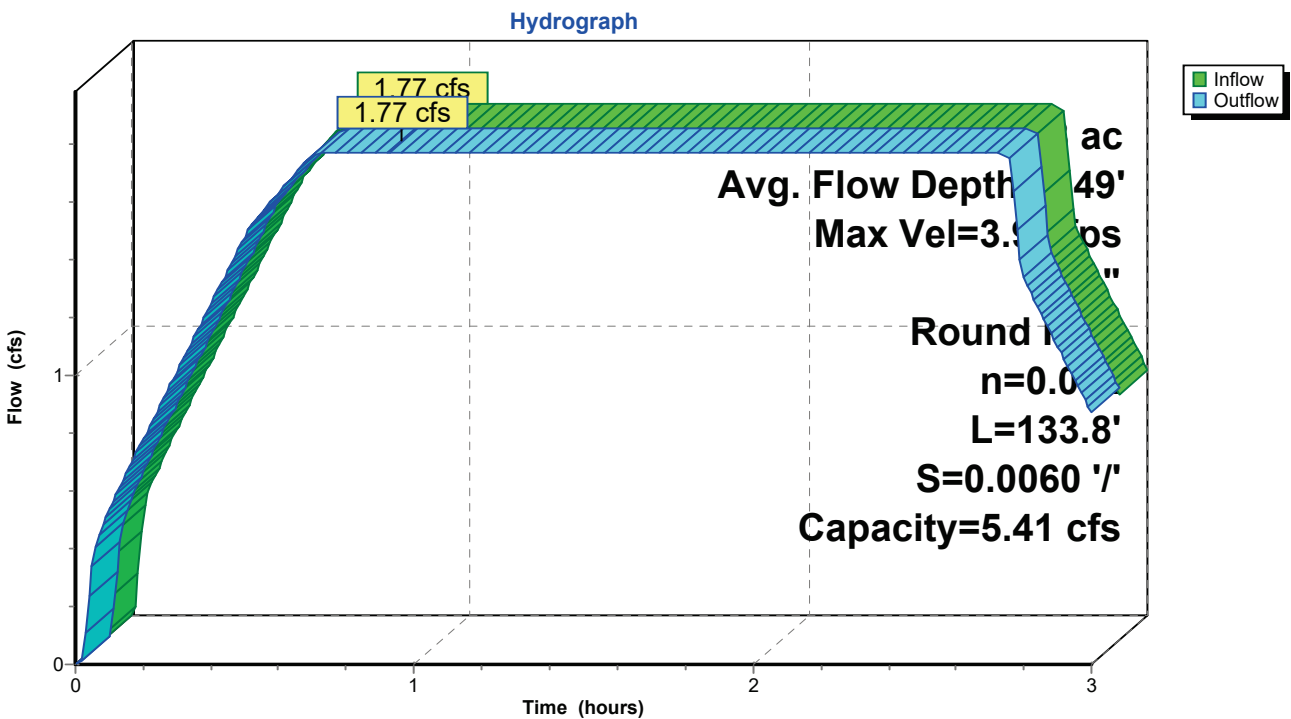
n= 0.012 Steel, smooth

Length= 133.8' Slope= 0.0060 '/'

Inlet Invert= 748.55', Outlet Invert= 747.75'



Reach R61: Pipe I61 to I31



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Summary for Reach R62: Pipe I62 to I61

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 1.749 ac, 0.00% Impervious, Inflow Depth > 1.92" for 100-yr event
 Inflow = 1.28 cfs @ 0.90 hrs, Volume= 0.281 af
 Outflow = 1.28 cfs @ 0.90 hrs, Volume= 0.280 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond I61 : Manhole 6-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.62 fps, Min. Travel Time= 0.6 min

Avg. Velocity= 3.46 fps, Avg. Travel Time= 0.6 min

Peak Storage= 43 cf @ 0.90 hrs

Average Depth at Peak Storage= 0.46' , Surface Width= 1.00'

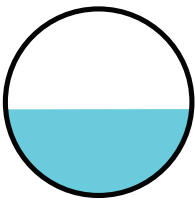
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 2.94 cfs

12.0" Round Pipe

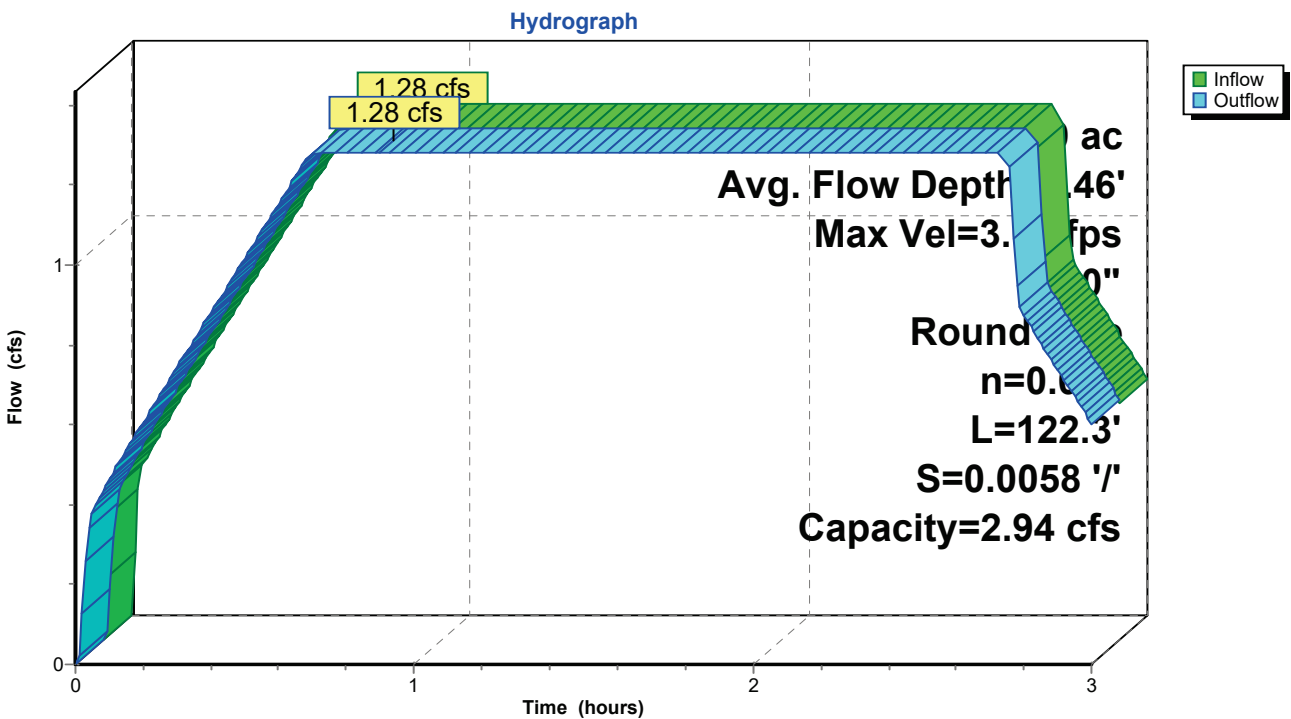
n= 0.012 Steel, smooth

Length= 122.3' Slope= 0.0058 '/'

Inlet Invert= 749.32', Outlet Invert= 748.61'



Reach R62: Pipe I62 to I61



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Summary for Reach R63: Pipe I63 to I62

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 1.364 ac, 0.00% Impervious, Inflow Depth > 1.75" for 100-yr event
 Inflow = 0.92 cfs @ 0.82 hrs, Volume= 0.199 af
 Outflow = 0.92 cfs @ 0.89 hrs, Volume= 0.198 af, Atten= 0%, Lag= 4.2 min
 Routed to Pond I62 : Inlet 6-2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.08 fps, Min. Travel Time= 0.6 min

Avg. Velocity= 2.91 fps, Avg. Travel Time= 0.7 min

Peak Storage= 35 cf @ 0.89 hrs

Average Depth at Peak Storage= 0.40' , Surface Width= 0.98'

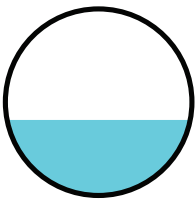
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 2.67 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

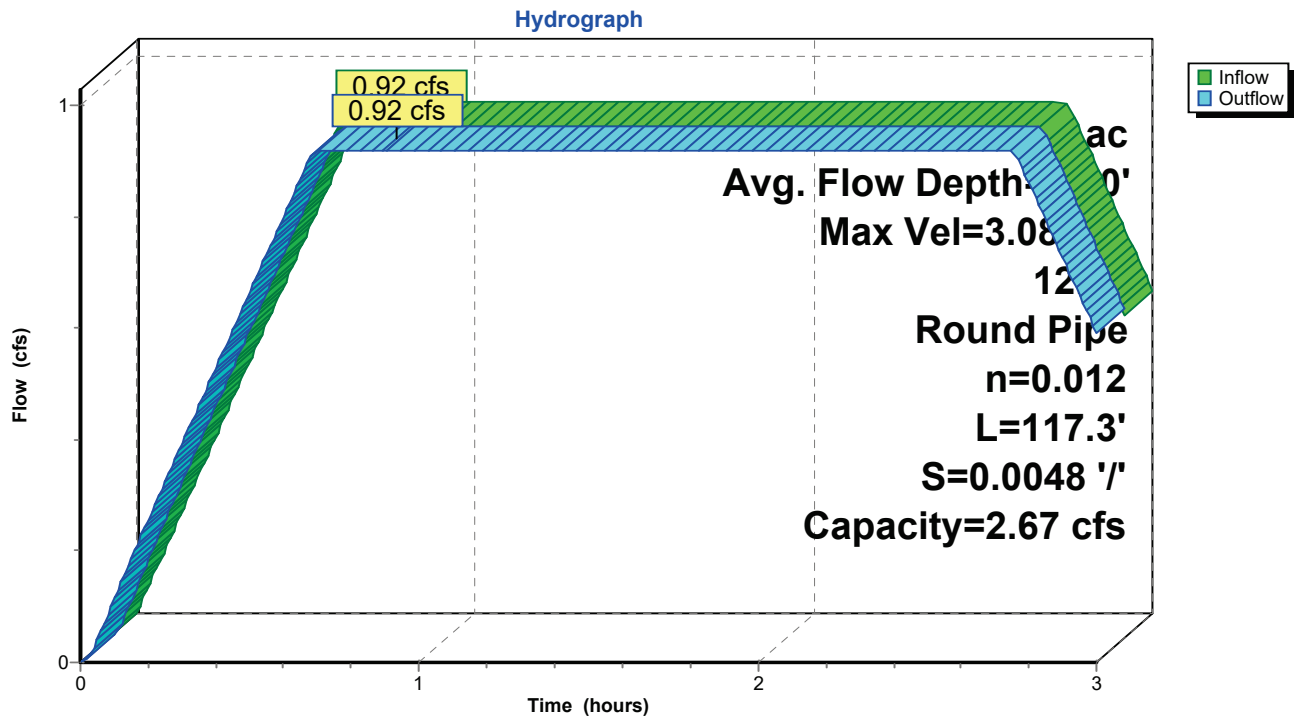
Length= 117.3' Slope= 0.0048 '/'

Inlet Invert= 749.91', Outlet Invert= 749.35'



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Reach R63: Pipe I63 to I62



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Summary for Reach R71: Pipe I71 to I15

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 2.152 ac, 49.07% Impervious, Inflow Depth > 2.95" for 100-yr event
 Inflow = 2.33 cfs @ 0.65 hrs, Volume= 0.529 af
 Outflow = 2.33 cfs @ 0.68 hrs, Volume= 0.529 af, Atten= 0%, Lag= 1.8 min
 Routed to Pond I15 : Inlet 1-5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.98 fps, Min. Travel Time= 1.0 min

Avg. Velocity= 4.78 fps, Avg. Travel Time= 1.1 min

Peak Storage= 144 cf @ 0.68 hrs

Average Depth at Peak Storage= 0.58' , Surface Width= 0.99'

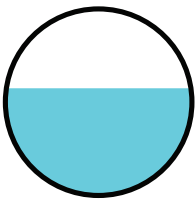
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 3.70 cfs

12.0" Round Pipe

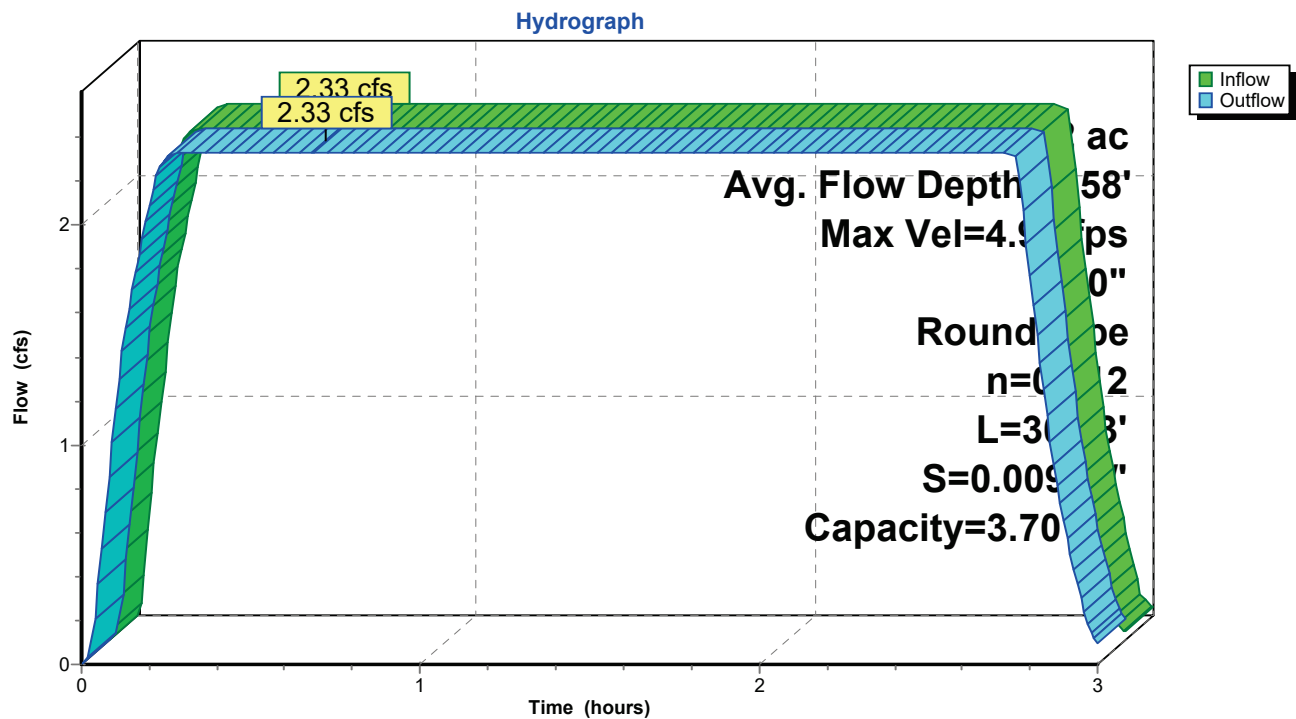
n= 0.012 Steel, smooth

Length= 307.3' Slope= 0.0092 '/'

Inlet Invert= 747.78', Outlet Invert= 744.96'



Reach R71: Pipe I71 to I15



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Summary for Reach R81: Pipe I81 to I71

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 0.792 ac, 48.74% Impervious, Inflow Depth > 2.73" for 100-yr event
 Inflow = 0.79 cfs @ 0.32 hrs, Volume= 0.180 af
 Outflow = 0.79 cfs @ 0.14 hrs, Volume= 0.180 af, Atten= 0%, Lag= 0.0 min
 Routed to Pond I71 : Inlet 7-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.35 fps, Min. Travel Time= 0.2 min

Avg. Velocity= 4.12 fps, Avg. Travel Time= 0.3 min

Peak Storage= 12 cf @ 0.14 hrs

Average Depth at Peak Storage= 0.28' , Surface Width= 0.90'

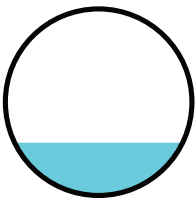
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 4.55 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

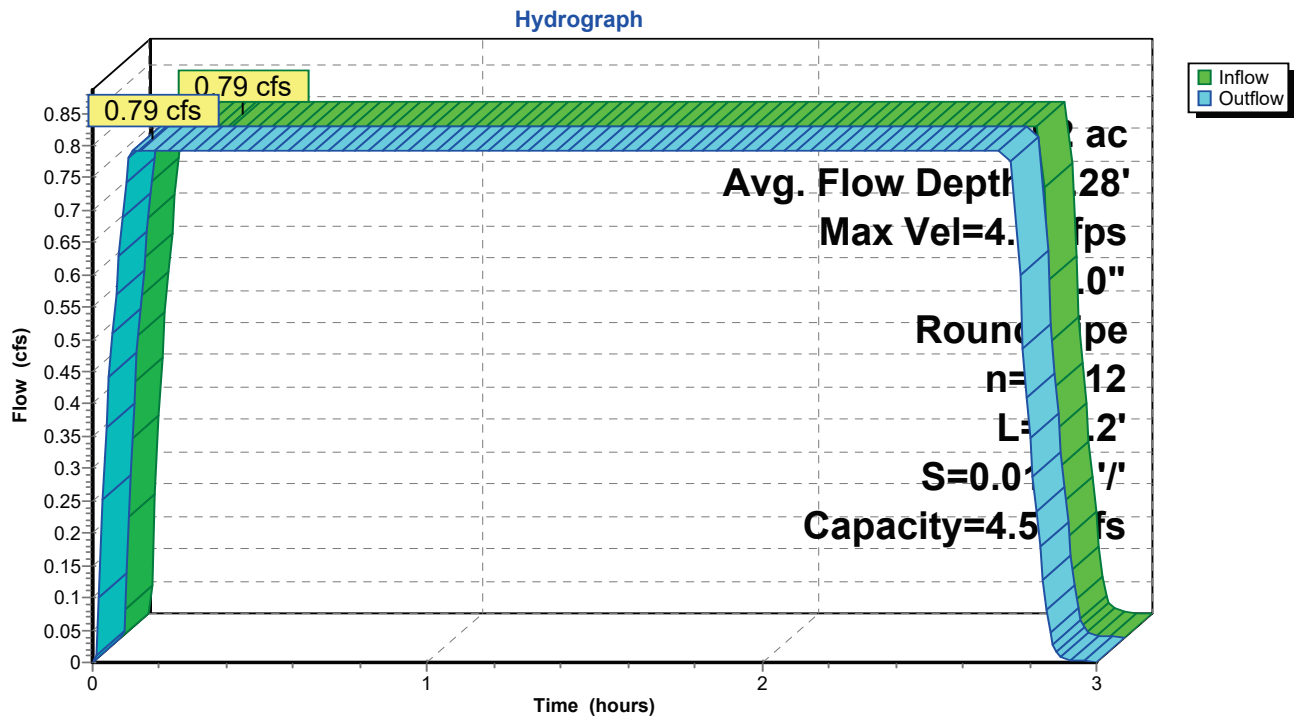
Length= 63.2' Slope= 0.0139 '/'

Inlet Invert= 748.66', Outlet Invert= 747.78'



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Reach R81: Pipe I81 to I71



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Summary for Reach R82: Pipe I82 to I81

[52] Hint: Inlet/Outlet conditions not evaluated

[80] Warning: Exceeded Pond I82 by 0.08' @ 2.85 hrs (0.03 cfs 0.000 af)

Inflow Area = 0.625 ac, 35.68% Impervious, Inflow Depth = 2.39" for 100-yr event
 Inflow = 0.55 cfs @ 0.10 hrs, Volume= 0.125 af
 Outflow = 0.55 cfs @ 0.29 hrs, Volume= 0.125 af, Atten= 0%, Lag= 11.4 min
 Routed to Pond I81 : Inlet 8-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.02 fps, Min. Travel Time= 0.6 min

Avg. Velocity = 3.80 fps, Avg. Travel Time= 0.6 min

Peak Storage= 19 cf @ 0.29 hrs

Average Depth at Peak Storage= 0.23' , Surface Width= 0.84'

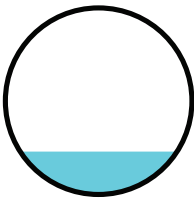
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 4.73 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

Length= 136.0' Slope= 0.0150 '/'

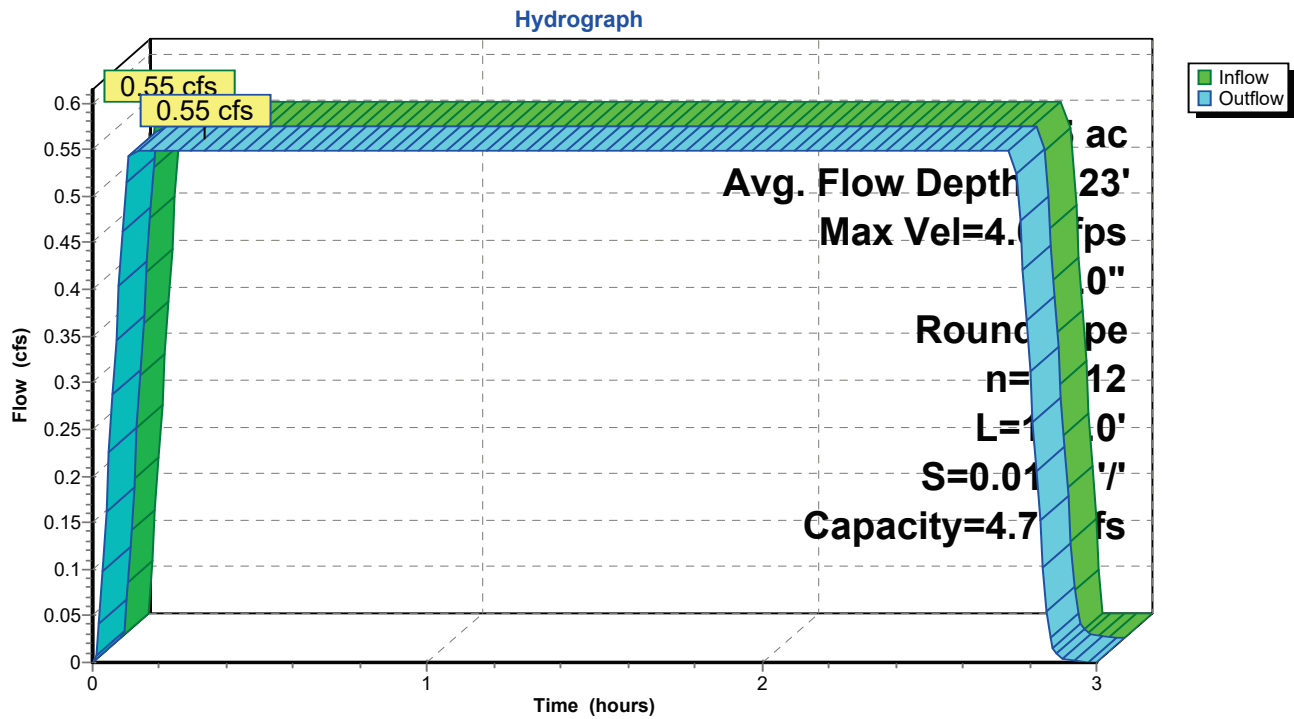
Inlet Invert= 750.74', Outlet Invert= 748.70'



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Reach R82: Pipe I82 to I81



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Summary for Reach R91: Pipe I91 to I71

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 0.640 ac, 25.31% Impervious, Inflow Depth > 2.71" for 100-yr event
 Inflow = 0.64 cfs @ 0.49 hrs, Volume= 0.144 af
 Outflow = 0.64 cfs @ 0.66 hrs, Volume= 0.144 af, Atten= 0%, Lag= 10.1 min
 Routed to Pond I71 : Inlet 7-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.13 fps, Min. Travel Time= 1.1 min

Avg. Velocity= 3.00 fps, Avg. Travel Time= 1.1 min

Peak Storage= 42 cf @ 0.65 hrs

Average Depth at Peak Storage= 0.30' , Surface Width= 0.92'

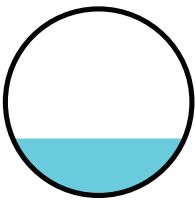
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 3.14 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

Length= 206.5' Slope= 0.0066 '/'

Inlet Invert= 750.30', Outlet Invert= 748.93'



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Summary for Reach R92: Pipe I92 to I91

[52] Hint: Inlet/Outlet conditions not evaluated

[80] Warning: Exceeded Pond I92 by 0.06' @ 2.98 hrs (0.01 cfs 0.000 af)

Inflow Area = 0.531 ac, 21.66% Impervious, Inflow Depth = 2.69" for 100-yr event
 Inflow = 0.52 cfs @ 0.23 hrs, Volume= 0.119 af
 Outflow = 0.52 cfs @ 0.48 hrs, Volume= 0.119 af, Atten= 0%, Lag= 15.0 min
 Routed to Pond I91 : Inlet 9-1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.00 fps, Min. Travel Time= 0.7 min

Avg. Velocity= 2.88 fps, Avg. Travel Time= 0.8 min

Peak Storage= 23 cf @ 0.48 hrs

Average Depth at Peak Storage= 0.27' , Surface Width= 0.89'

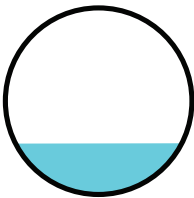
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 3.20 cfs

12.0" Round Pipe

n= 0.012 Steel, smooth

Length= 134.2' Slope= 0.0069 '/'

Inlet Invert= 751.22', Outlet Invert= 750.30'



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Summary for Pond I14: Inlet 1-4

[57] Hint: Peaked at 742.80' (Flood elevation advised)

[62] Hint: Exceeded Reach R18 OUTLET depth by 5.43' @ 0.93 hrs

Inflow Area = 9.773 ac, 23.45% Impervious, Inflow Depth > 2.37" for 100-yr event
 Inflow = 8.68 cfs @ 0.99 hrs, Volume= 1.934 af
 Outflow = 8.68 cfs @ 0.98 hrs, Volume= 1.934 af, Atten= 0%, Lag= 0.0 min
 Primary = 8.68 cfs @ 0.98 hrs, Volume= 1.934 af
 Routed to Reach R14 : Pipe I14 to Pond

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 742.80' @ 0.94 hrs

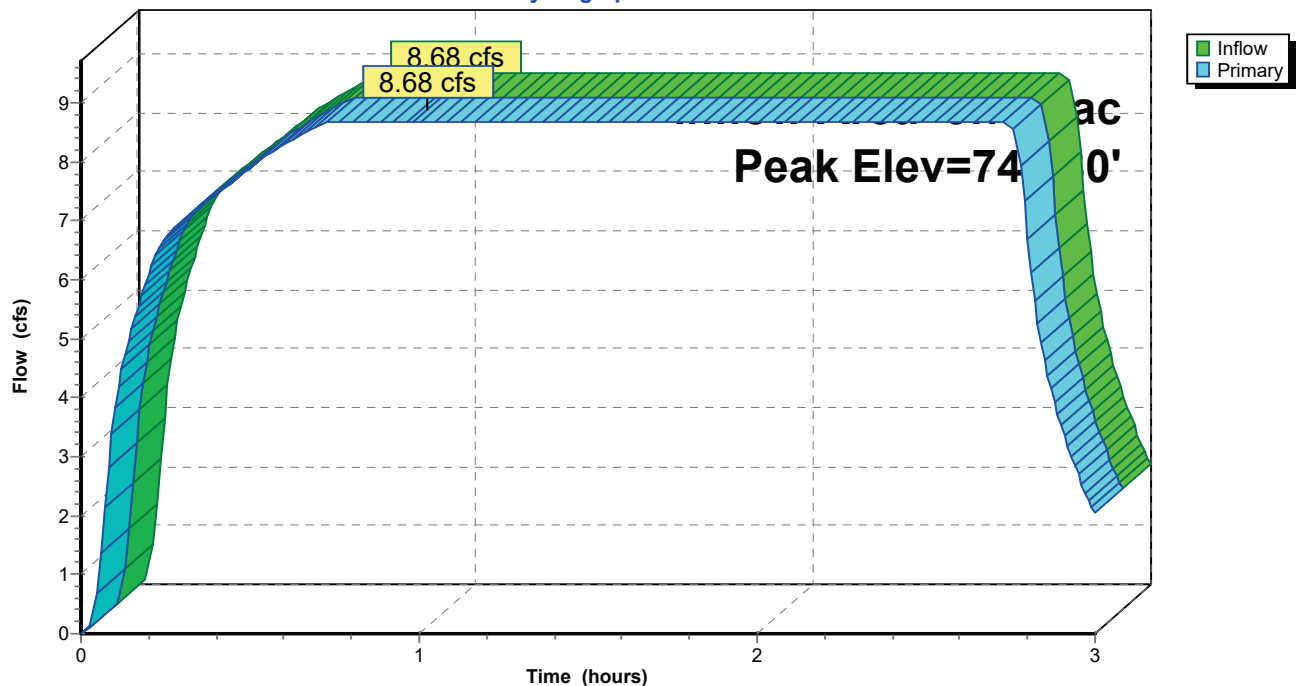
Device	Routing	Invert	Outlet Devices
#1	Primary	741.84'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	741.84'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	743.84'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=8.68 cfs @ 0.98 hrs HW=742.80' TW=742.43' (Dynamic Tailwater)

- 1=Orifice/Grate (Orifice Controls 4.34 cfs @ 2.91 fps)
- 2=Orifice/Grate (Orifice Controls 4.34 cfs @ 2.91 fps)
- 3=Orifice/Grate (Controls 0.00 cfs)

Pond I14: Inlet 1-4

Hydrograph



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Summary for Pond I15: Inlet 1-5

[57] Hint: Peaked at 745.89' (Flood elevation advised)

[62] Hint: Exceeded Reach R21 OUTLET depth by 0.21' @ 0.27 hrs

[62] Hint: Exceeded Reach R71 OUTLET depth by 0.36' @ 2.77 hrs

Inflow Area = 9.638 ac, 22.40% Impervious, Inflow Depth > 2.35" for 100-yr event
 Inflow = 8.48 cfs @ 0.98 hrs, Volume= 1.891 af
 Outflow = 8.48 cfs @ 0.98 hrs, Volume= 1.891 af, Atten= 0%, Lag= 0.0 min
 Primary = 8.48 cfs @ 0.98 hrs, Volume= 1.891 af
 Routed to Reach R15 : Pipe I15 to I18

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 745.89' @ 0.93 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	744.87'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	744.96'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	744.96'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=8.48 cfs @ 0.98 hrs HW=745.89' TW=745.68' (Dynamic Tailwater)

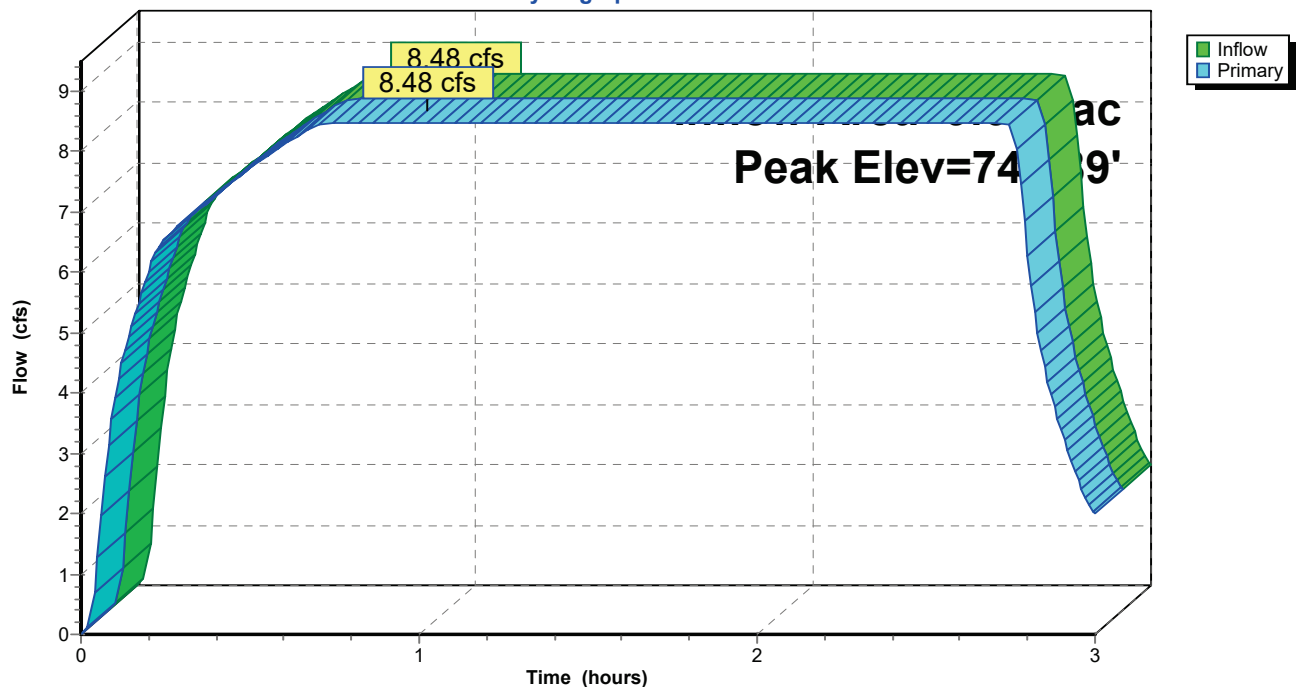
1=Orifice/Grate (Orifice Controls 3.59 cfs @ 2.23 fps)

2=Orifice/Grate (Orifice Controls 1.70 cfs @ 2.23 fps)

3=Orifice/Grate (Orifice Controls 3.19 cfs @ 2.23 fps)

Pond I15: Inlet 1-5

Hydrograph



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Summary for Pond I16: Inlet 1-6

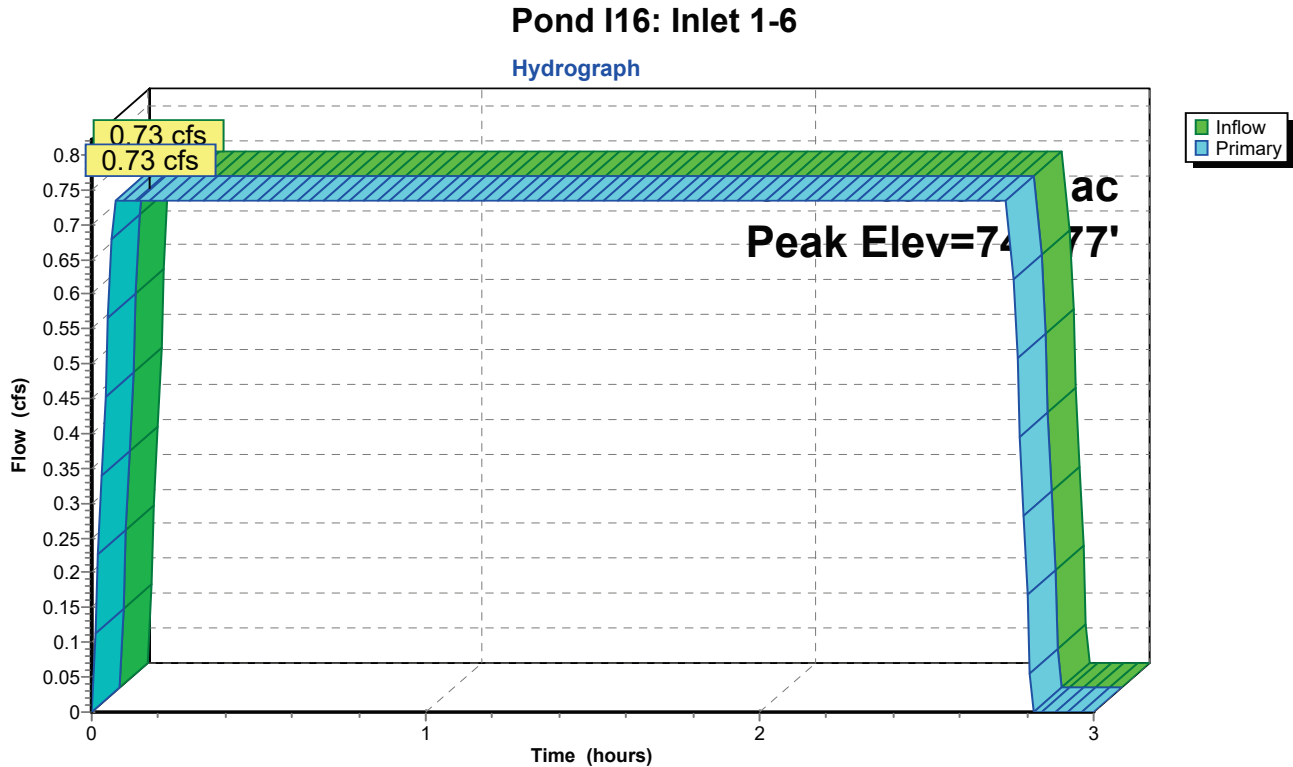
[57] Hint: Peaked at 749.77' (Flood elevation advised)

Inflow Area = 0.504 ac, 97.62% Impervious, Inflow Depth = 3.97" for 100-yr event
 Inflow = 0.73 cfs @ 0.07 hrs, Volume= 0.167 af
 Outflow = 0.73 cfs @ 0.13 hrs, Volume= 0.167 af, Atten= 0%, Lag= 3.6 min
 Primary = 0.73 cfs @ 0.13 hrs, Volume= 0.167 af
 Routed to Reach R16 : Pipe I16 to I21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 749.77' @ 0.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	749.30'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.73 cfs @ 0.13 hrs HW=749.77' TW=749.59' (Dynamic Tailwater)
 ↑ **1=Orifice/Grate** (Orifice Controls 0.73 cfs @ 2.03 fps)



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Summary for Pond I17: Trench Drain 1-7

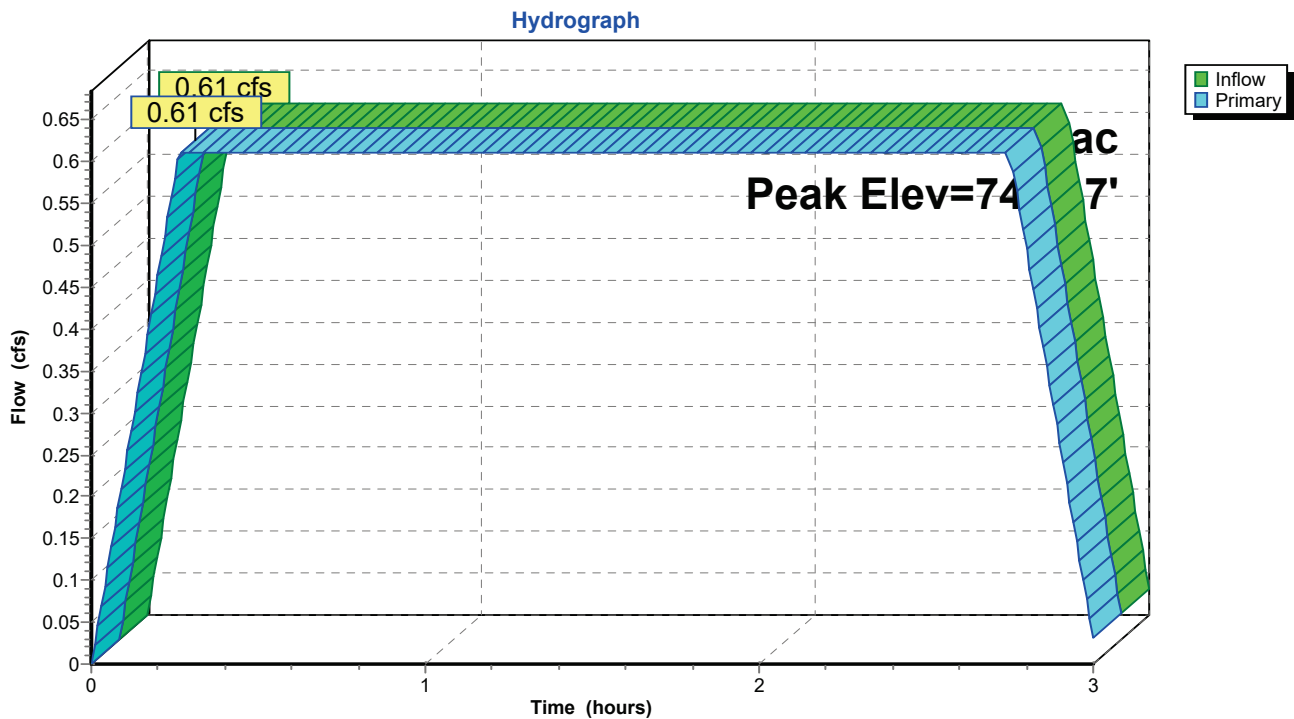
[57] Hint: Peaked at 746.17' (Flood elevation advised)

Inflow Area = 0.750 ac, 33.20% Impervious, Inflow Depth > 2.22" for 100-yr event
 Inflow = 0.61 cfs @ 0.27 hrs, Volume= 0.139 af
 Outflow = 0.61 cfs @ 0.27 hrs, Volume= 0.139 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.61 cfs @ 0.27 hrs, Volume= 0.139 af
 Routed to Reach R17 : Pipe I17 to Pond

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 746.17' @ 0.27 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	745.50'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.61 cfs @ 0.27 hrs HW=746.17' TW=745.74' (Dynamic Tailwater)
 1=Orifice/Grate (Orifice Controls 0.61 cfs @ 3.11 fps)

Pond I17: Trench Drain 1-7

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Summary for Pond I18: Catch Basin 1-8

[57] Hint: Peaked at 744.30' (Flood elevation advised)

[62] Hint: Exceeded Reach R15 OUTLET depth by 0.13' @ 0.93 hrs

[62] Hint: Exceeded Reach R19 OUTLET depth by 0.84' @ 2.76 hrs

Inflow Area = 9.773 ac, 23.45% Impervious, Inflow Depth > 2.38" for 100-yr event
 Inflow = 8.68 cfs @ 0.98 hrs, Volume= 1.934 af
 Outflow = 8.68 cfs @ 1.01 hrs, Volume= 1.934 af, Atten= 0%, Lag= 1.8 min
 Primary = 8.68 cfs @ 1.01 hrs, Volume= 1.934 af
 Routed to Reach R18 : Pipe I18 to I14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 744.30' @ 0.95 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	743.36'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	743.36'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

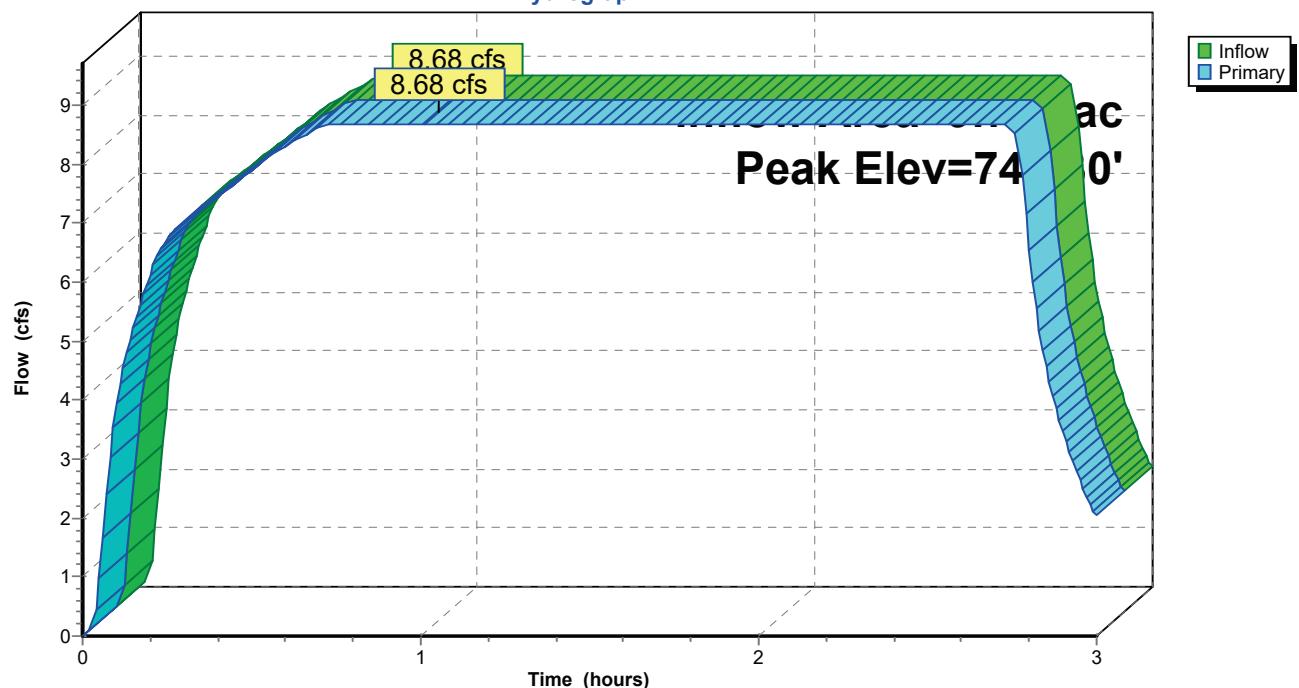
Primary OutFlow Max=8.68 cfs @ 1.01 hrs HW=744.30' TW=743.91' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 4.34 cfs @ 2.99 fps)

2=Orifice/Grate (Orifice Controls 4.34 cfs @ 2.99 fps)

Pond I18: Catch Basin 1-8

Hydrograph



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Summary for Pond I19: Inlet 1-9

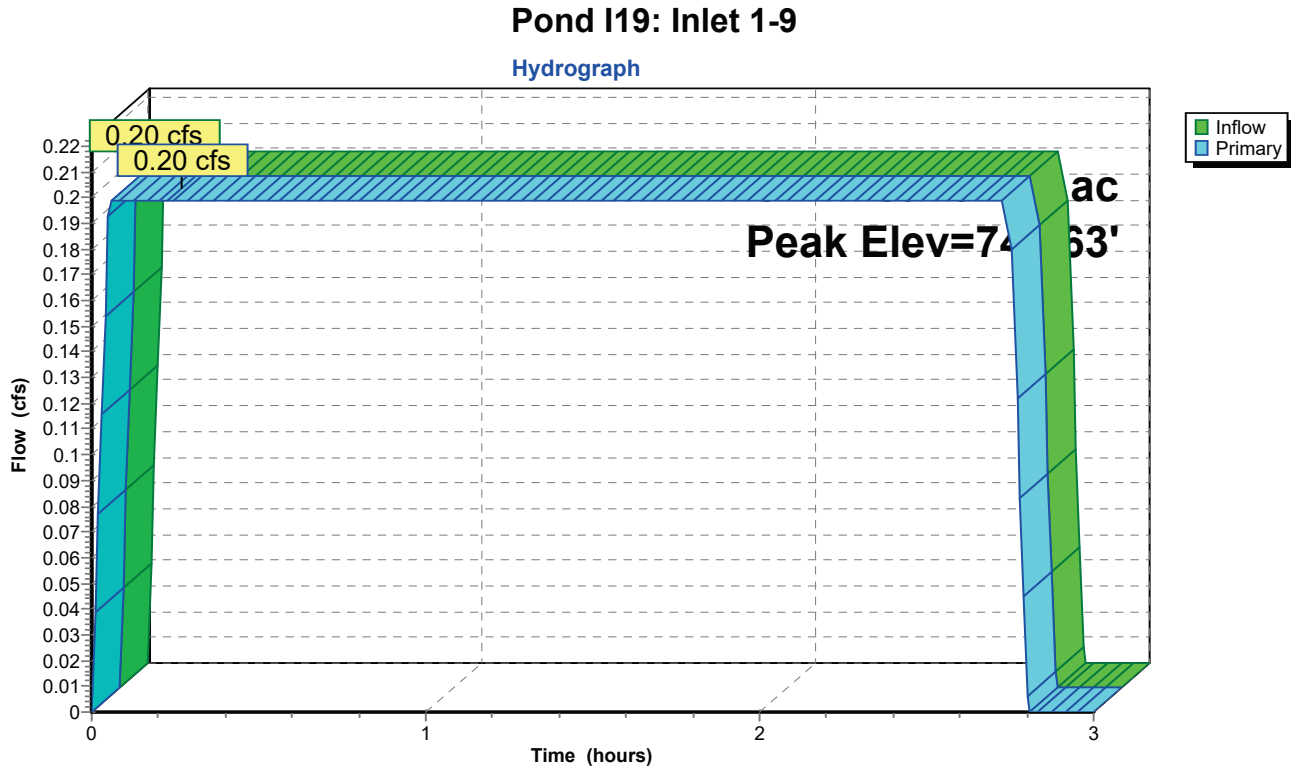
[57] Hint: Peaked at 745.63' (Flood elevation advised)

Inflow Area = 0.135 ac, 98.52% Impervious, Inflow Depth = 4.02" for 100-yr event
 Inflow = 0.20 cfs @ 0.06 hrs, Volume= 0.045 af
 Outflow = 0.20 cfs @ 0.23 hrs, Volume= 0.045 af, Atten= 0%, Lag= 10.2 min
 Primary = 0.20 cfs @ 0.23 hrs, Volume= 0.045 af
 Routed to Reach R19 : Pipe I19 to I14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 745.63' @ 0.08 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	745.41'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.20 cfs @ 0.23 hrs HW=745.63' TW=745.52' (Dynamic Tailwater)
 ↑ **1=Orifice/Grate** (Orifice Controls 0.20 cfs @ 1.59 fps)



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Summary for Pond I21: Inlet 2-1

[57] Hint: Peaked at 748.16' (Flood elevation advised)

[62] Hint: Exceeded Reach R31 OUTLET depth by 0.20' @ 0.12 hrs

Inflow Area = 7.115 ac, 15.50% Impervious, Inflow Depth > 2.23" for 100-yr event
 Inflow = 5.97 cfs @ 0.94 hrs, Volume= 1.325 af
 Outflow = 5.97 cfs @ 0.94 hrs, Volume= 1.325 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.97 cfs @ 0.94 hrs, Volume= 1.325 af
 Routed to Reach R21 : Pipe I21 to I15

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 748.16' @ 0.90 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	747.10'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	748.18'	18.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	748.17'	12.0" Vert. Orifice/Grate X 2.00 C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=5.97 cfs @ 0.94 hrs HW=748.16' TW=746.81' (Dynamic Tailwater)

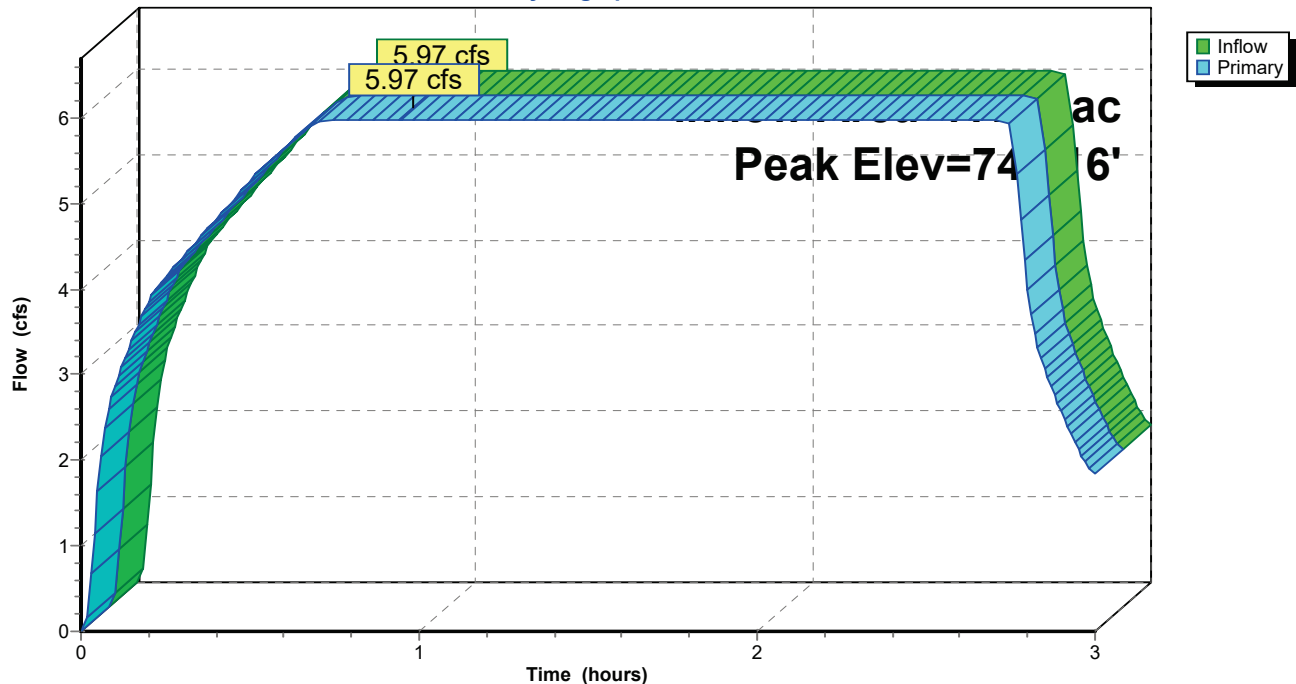
1=Orifice/Grate (Orifice Controls 5.97 cfs @ 3.51 fps)

2=Orifice/Grate (Controls 0.00 cfs)

3=Orifice/Grate (Controls 0.00 cfs)

Pond I21: Inlet 2-1

Hydrograph



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Summary for Pond I31: Manhole 3-1

[57] Hint: Peaked at 748.66' (Flood elevation advised)

[62] Hint: Exceeded Reach R51 OUTLET depth by 0.49' @ 2.77 hrs

[62] Hint: Exceeded Reach R61 OUTLET depth by 0.42' @ 2.77 hrs

Inflow Area = 5.458 ac, 1.12% Impervious, Inflow Depth > 2.00" for 100-yr event
 Inflow = 4.13 cfs @ 0.91 hrs, Volume= 0.909 af
 Outflow = 4.13 cfs @ 0.91 hrs, Volume= 0.909 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.13 cfs @ 0.91 hrs, Volume= 0.909 af
 Routed to Reach R31 : Pipe I31 to I21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 748.66' @ 0.90 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	747.75'	18.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	747.75'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	747.75'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=4.13 cfs @ 0.91 hrs HW=748.66' TW=748.59' (Dynamic Tailwater)

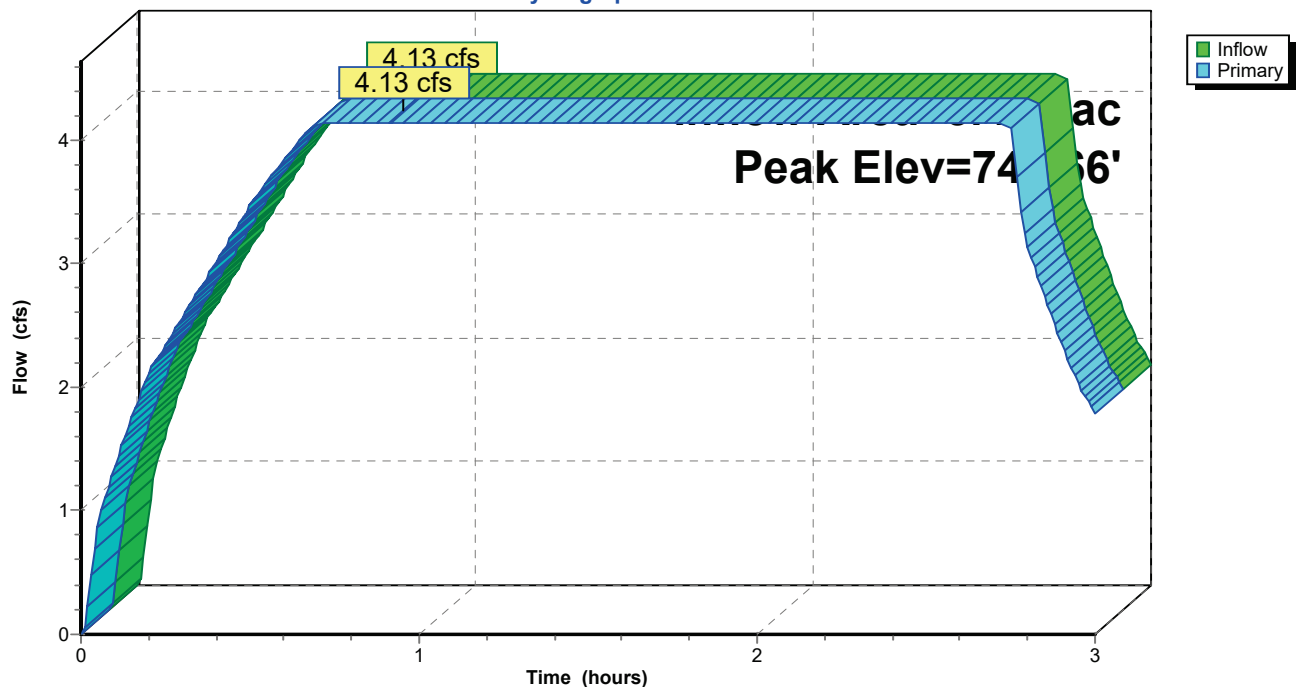
1=Orifice/Grate (Orifice Controls 1.53 cfs @ 1.35 fps)

2=Orifice/Grate (Orifice Controls 1.30 cfs @ 1.35 fps)

3=Orifice/Grate (Orifice Controls 1.30 cfs @ 1.35 fps)

Pond I31: Manhole 3-1

Hydrograph



340656 - Rantoul Transfer Station - Pro/L-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

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Summary for Pond I41: Inlet 4-1

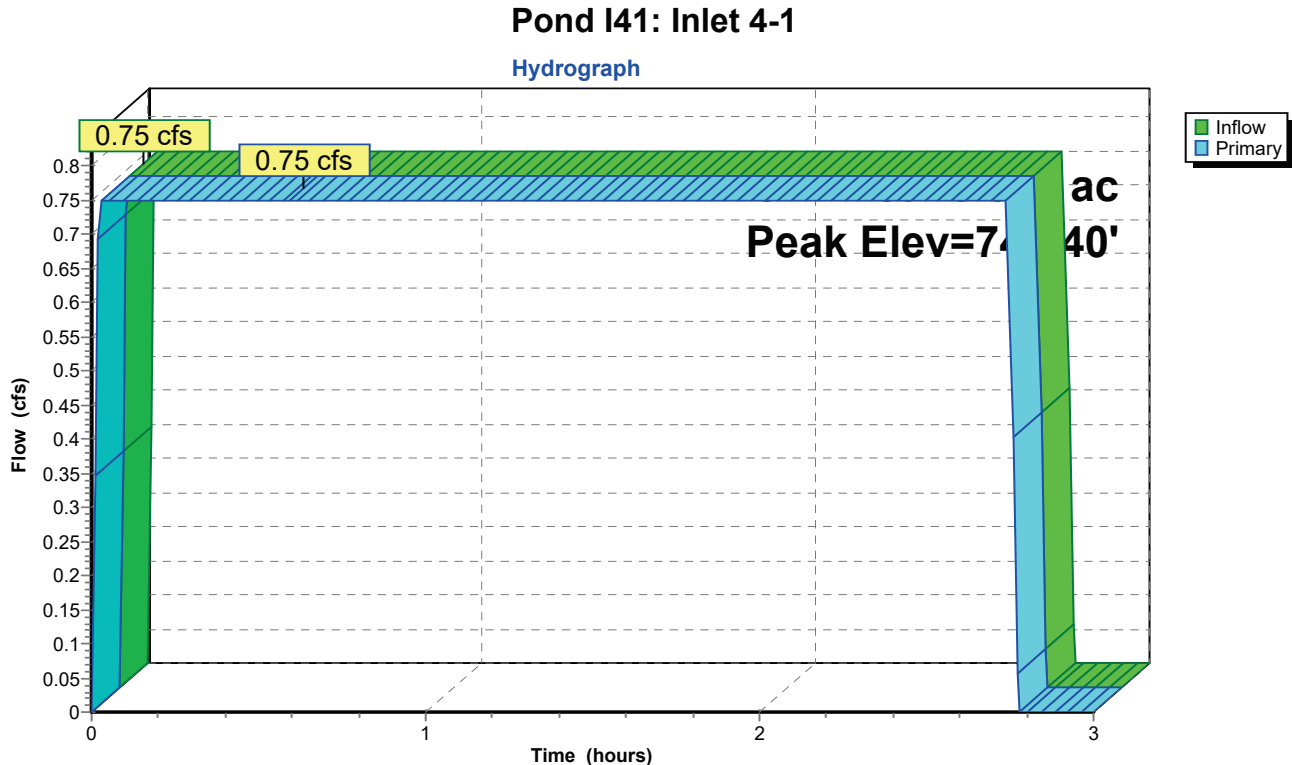
[57] Hint: Peaked at 749.40' (Flood elevation advised)

Inflow Area = 0.503 ac, 100.00% Impervious, Inflow Depth = 4.06" for 100-yr event
 Inflow = 0.75 cfs @ 0.03 hrs, Volume= 0.170 af
 Outflow = 0.75 cfs @ 0.59 hrs, Volume= 0.170 af, Atten= 0%, Lag= 33.6 min
 Primary = 0.75 cfs @ 0.59 hrs, Volume= 0.170 af
 Routed to Reach R41 : Pipe I41 to I31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 749.40' @ 0.77 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	748.86'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.75 cfs @ 0.59 hrs HW=749.40' TW=749.27' (Dynamic Tailwater)
 ↑ **1=Orifice/Grate** (Orifice Controls 0.75 cfs @ 1.74 fps)



340656 - Rantoul Transfer Station - Pro/L-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

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Summary for Pond I51: Inlet 5-1

[57] Hint: Peaked at 749.66' (Flood elevation advised)

[62] Hint: Exceeded Reach R52 OUTLET depth by 0.13' @ 0.02 hrs

Inflow Area = 2.540 ac, 1.02% Impervious, Inflow Depth > 1.97" for 100-yr event
 Inflow = 1.90 cfs @ 0.77 hrs, Volume= 0.417 af
 Outflow = 1.90 cfs @ 0.77 hrs, Volume= 0.417 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.90 cfs @ 0.77 hrs, Volume= 0.417 af
 Routed to Reach R51 : Pipe I51 to I31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 749.66' @ 0.76 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	749.07'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	749.10'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

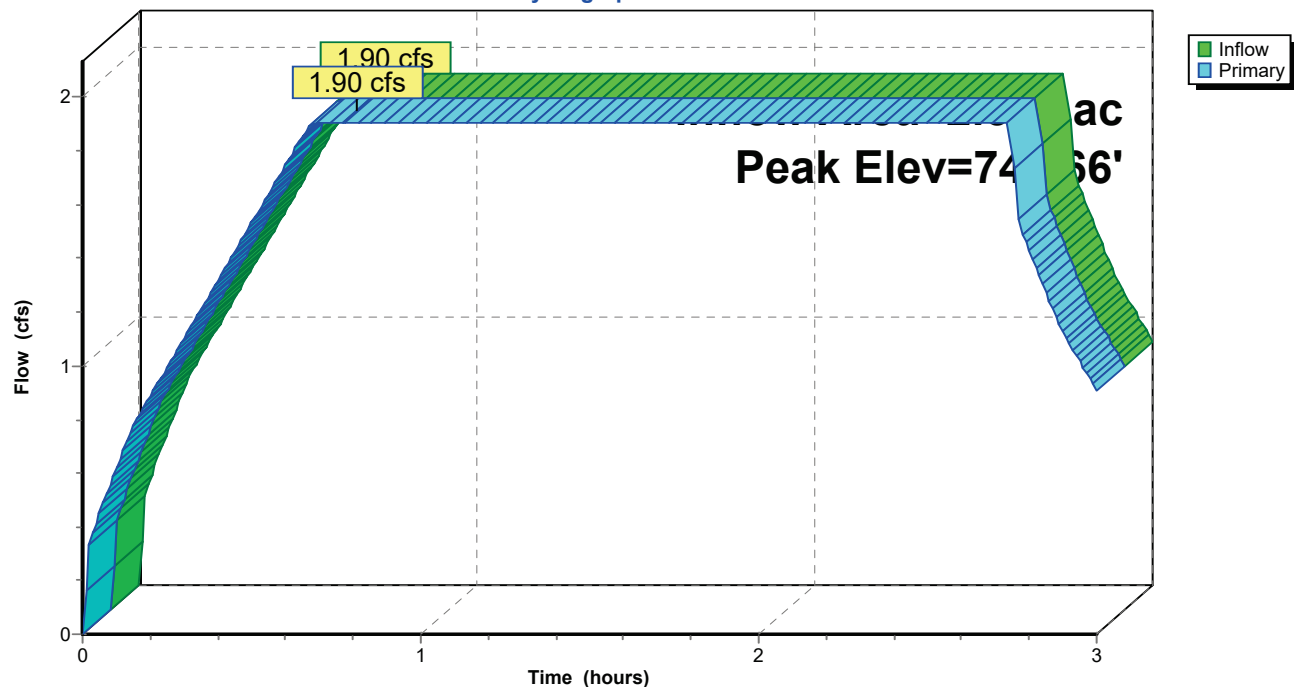
Primary OutFlow Max=1.90 cfs @ 0.77 hrs HW=749.66' TW=749.51' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 1.06 cfs @ 1.87 fps)

2=Orifice/Grate (Orifice Controls 0.84 cfs @ 1.87 fps)

Pond I51: Inlet 5-1

Hydrograph



340656 - Rantoul Transfer Station - Pro/L-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

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Summary for Pond I52: Inlet 5-2

[57] Hint: Peaked at 750.75' (Flood elevation advised)

[63] Warning: Exceeded Reach R53 INLET depth by 0.18' @ 2.91 hrs

Inflow Area = 2.186 ac, 0.27% Impervious, Inflow Depth > 1.86" for 100-yr event
 Inflow = 1.56 cfs @ 0.67 hrs, Volume= 0.340 af
 Outflow = 1.56 cfs @ 0.67 hrs, Volume= 0.340 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.56 cfs @ 0.67 hrs, Volume= 0.340 af
 Routed to Reach R52 : Pipe I52 to I51

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 750.75' @ 0.75 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	750.10'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	750.26'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

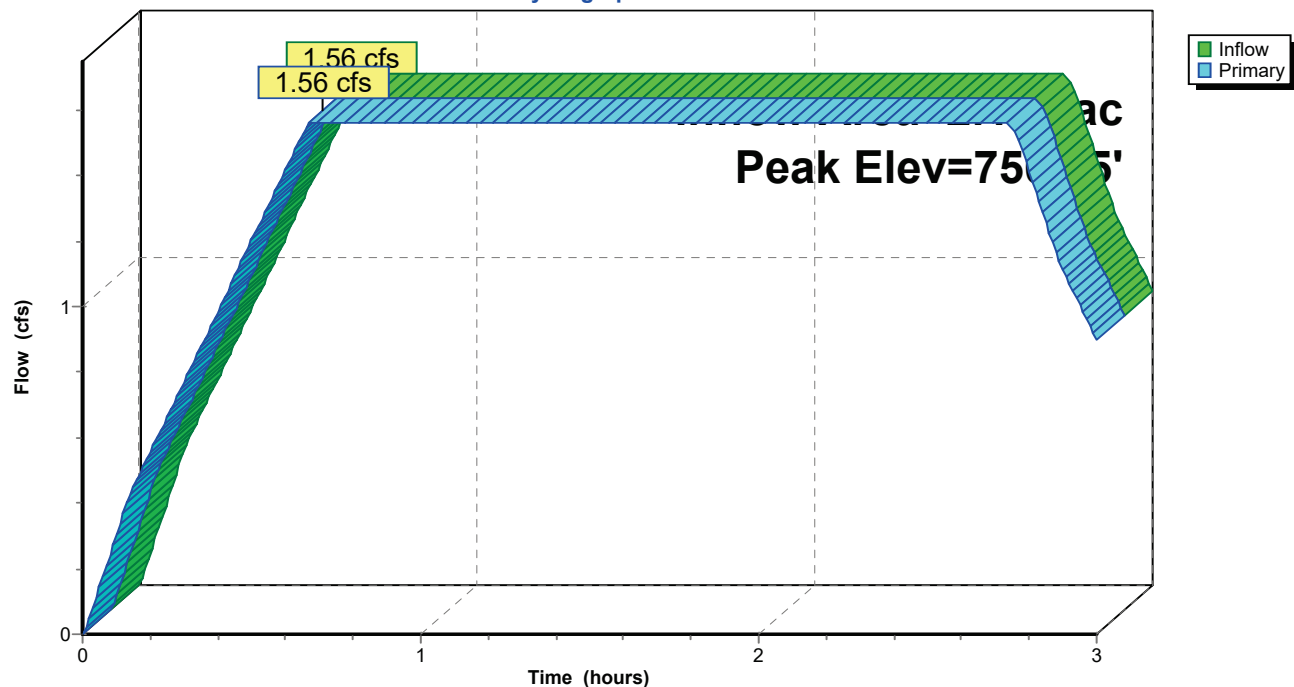
Primary OutFlow Max=1.55 cfs @ 0.67 hrs HW=750.75' TW=750.56' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 1.14 cfs @ 2.11 fps)

2=Orifice/Grate (Orifice Controls 0.41 cfs @ 2.11 fps)

Pond I52: Inlet 5-2

Hydrograph



340656 - Rantoul Transfer Station - ProL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

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Summary for Pond I53: Inlet 5-3

[57] Hint: Peaked at 750.67' (Flood elevation advised)

Inflow Area = 0.156 ac, 0.00% Impervious, Inflow Depth = 2.26" for 100-yr event
 Inflow = 0.13 cfs @ 0.13 hrs, Volume= 0.029 af
 Outflow = 0.13 cfs @ 0.26 hrs, Volume= 0.029 af, Atten= 0%, Lag= 7.8 min
 Primary = 0.13 cfs @ 0.26 hrs, Volume= 0.029 af
 Routed to Reach R53 : Pipe I53 to I52

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 750.67' @ 0.29 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	750.43'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	750.56'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

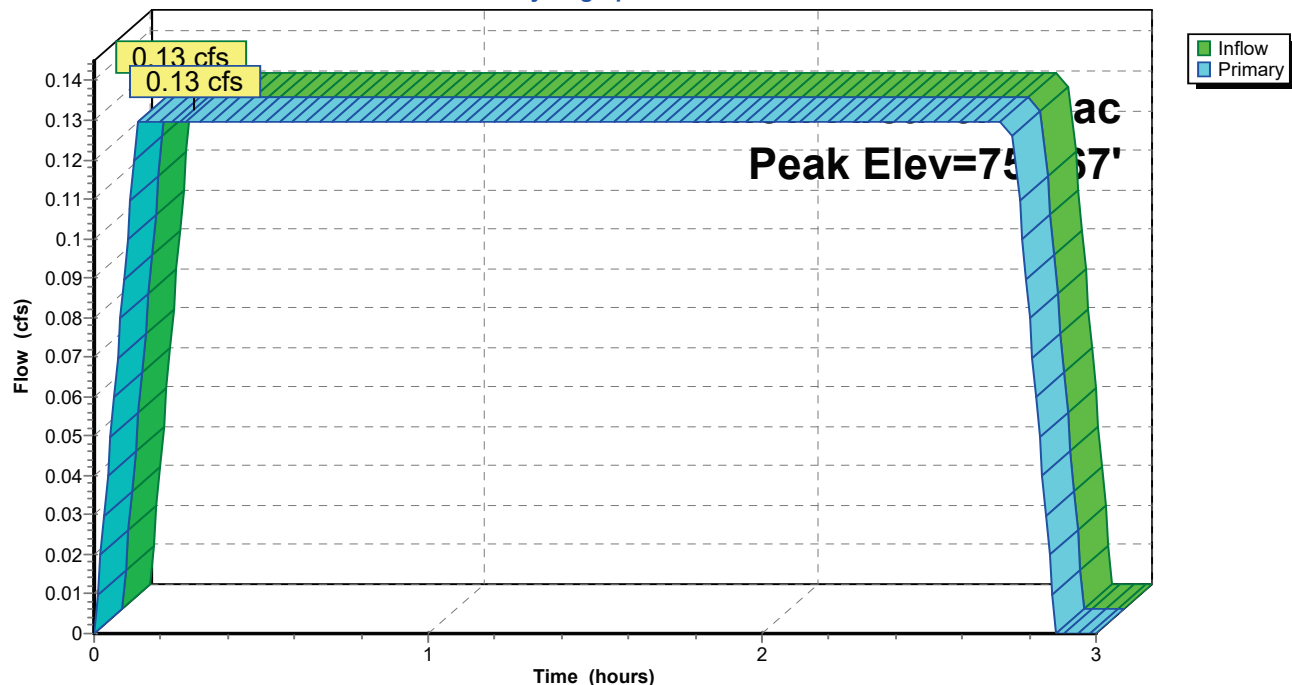
Primary OutFlow Max=0.13 cfs @ 0.26 hrs HW=750.67' TW=750.63' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 0.10 cfs @ 1.00 fps)

2=Orifice/Grate (Orifice Controls 0.03 cfs @ 1.00 fps)

Pond I53: Inlet 5-3

Hydrograph



340656 - Rantoul Transfer Station - ProL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr
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Summary for Pond I54: Inlet 5-4

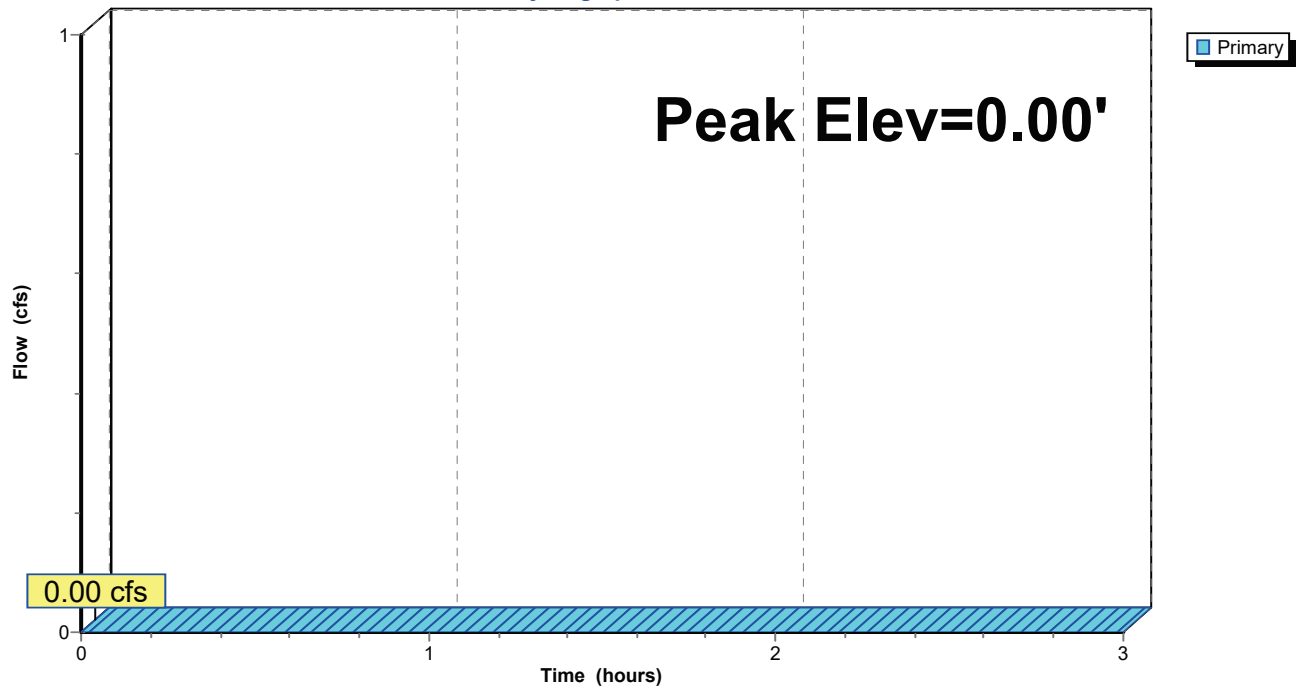
[43] Hint: Has no inflow (Outflow=Zero)

Device	Routing	Invert	Outlet Devices
#1	Primary	750.30'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' TW=750.30' (Dynamic Tailwater)
 ↳ **1=Orifice/Grate** (Controls 0.00 cfs)

Pond I54: Inlet 5-4

Hydrograph



340656 - Rantoul Transfer Station - Pro/L-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

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Summary for Pond I61: Manhole 6-1

[57] Hint: Peaked at 749.16' (Flood elevation advised)

[62] Hint: Exceeded Reach R62 OUTLET depth by 0.12' @ 2.78 hrs

Inflow Area = 2.408 ac, 0.00% Impervious, Inflow Depth > 1.93" for 100-yr event
 Inflow = 1.77 cfs @ 0.90 hrs, Volume= 0.388 af
 Outflow = 1.77 cfs @ 0.90 hrs, Volume= 0.388 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.77 cfs @ 0.90 hrs, Volume= 0.388 af
 Routed to Reach R61 : Pipe I61 to I31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 749.16' @ 0.87 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	748.55'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	748.61'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

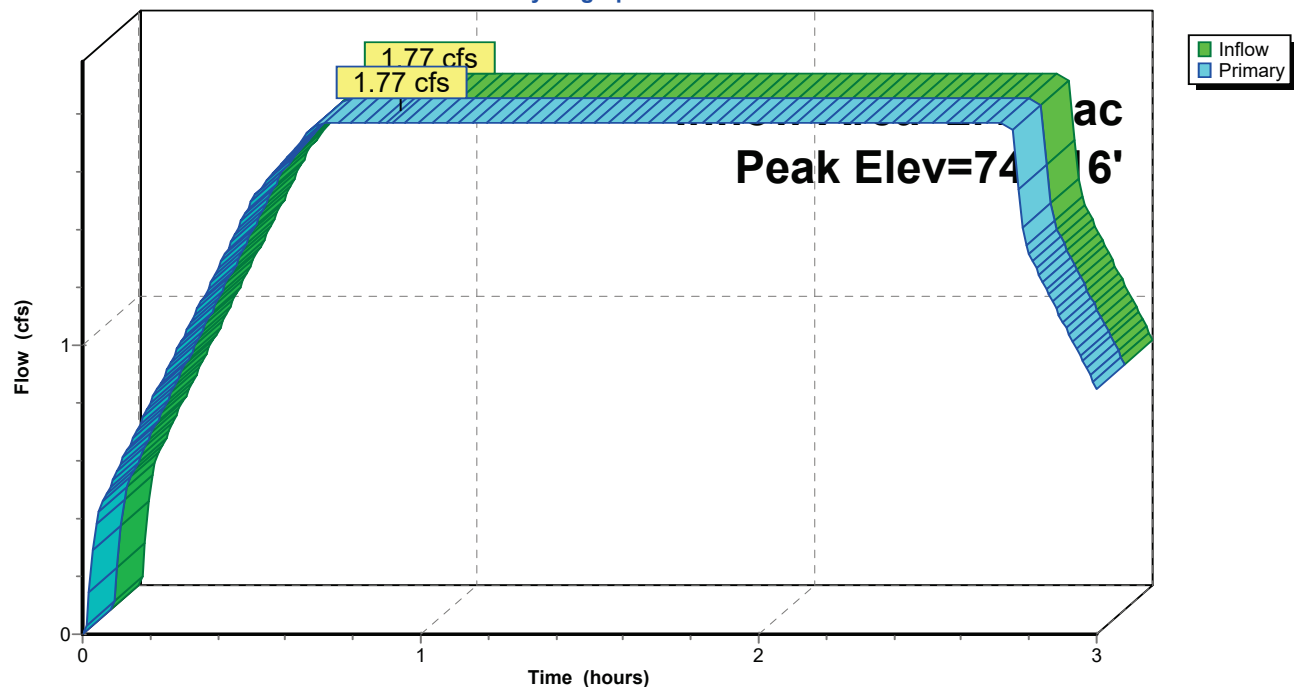
Primary OutFlow Max=1.77 cfs @ 0.90 hrs HW=749.16' TW=749.04' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 1.01 cfs @ 1.69 fps)

2=Orifice/Grate (Orifice Controls 0.75 cfs @ 1.69 fps)

Pond I61: Manhole 6-1

Hydrograph



340656 - Rantoul Transfer Station - Pro/L-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

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Summary for Pond I62: Inlet 6-2

[57] Hint: Peaked at 749.88' (Flood elevation advised)

[62] Hint: Exceeded Reach R63 OUTLET depth by 0.17' @ 0.05 hrs

Inflow Area = 1.749 ac, 0.00% Impervious, Inflow Depth > 1.92" for 100-yr event
 Inflow = 1.28 cfs @ 0.89 hrs, Volume= 0.281 af
 Outflow = 1.28 cfs @ 0.90 hrs, Volume= 0.281 af, Atten= 0%, Lag= 0.6 min
 Primary = 1.28 cfs @ 0.90 hrs, Volume= 0.281 af
 Routed to Reach R62 : Pipe I62 to I61

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 749.88' @ 0.86 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	749.32'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	749.35'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

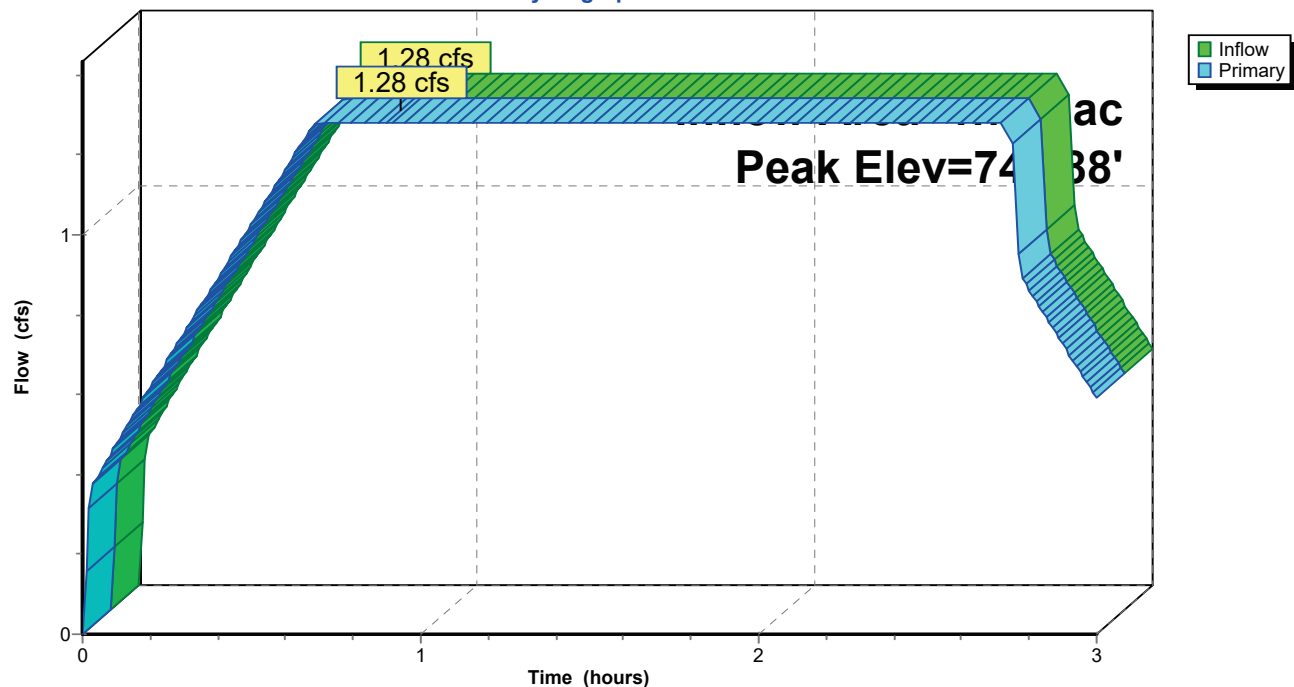
Primary OutFlow Max=1.28 cfs @ 0.90 hrs HW=749.88' TW=749.78' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 0.66 cfs @ 1.48 fps)

2=Orifice/Grate (Orifice Controls 0.62 cfs @ 1.48 fps)

Pond I62: Inlet 6-2

Hydrograph



340656 - Rantoul Transfer Station - Pro/L-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

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Summary for Pond I63: Inlet 6-3

[57] Hint: Peaked at 750.48' (Flood elevation advised)

[63] Warning: Exceeded Reach R54 INLET depth by 0.18' @ 0.86 hrs

Inflow Area = 1.364 ac, 0.00% Impervious, Inflow Depth > 1.75" for 100-yr event
 Inflow = 0.92 cfs @ 0.68 hrs, Volume= 0.199 af
 Outflow = 0.92 cfs @ 0.82 hrs, Volume= 0.199 af, Atten= 0%, Lag= 8.4 min
 Primary = 0.92 cfs @ 0.82 hrs, Volume= 0.199 af
 Routed to Reach R63 : Pipe I63 to I62

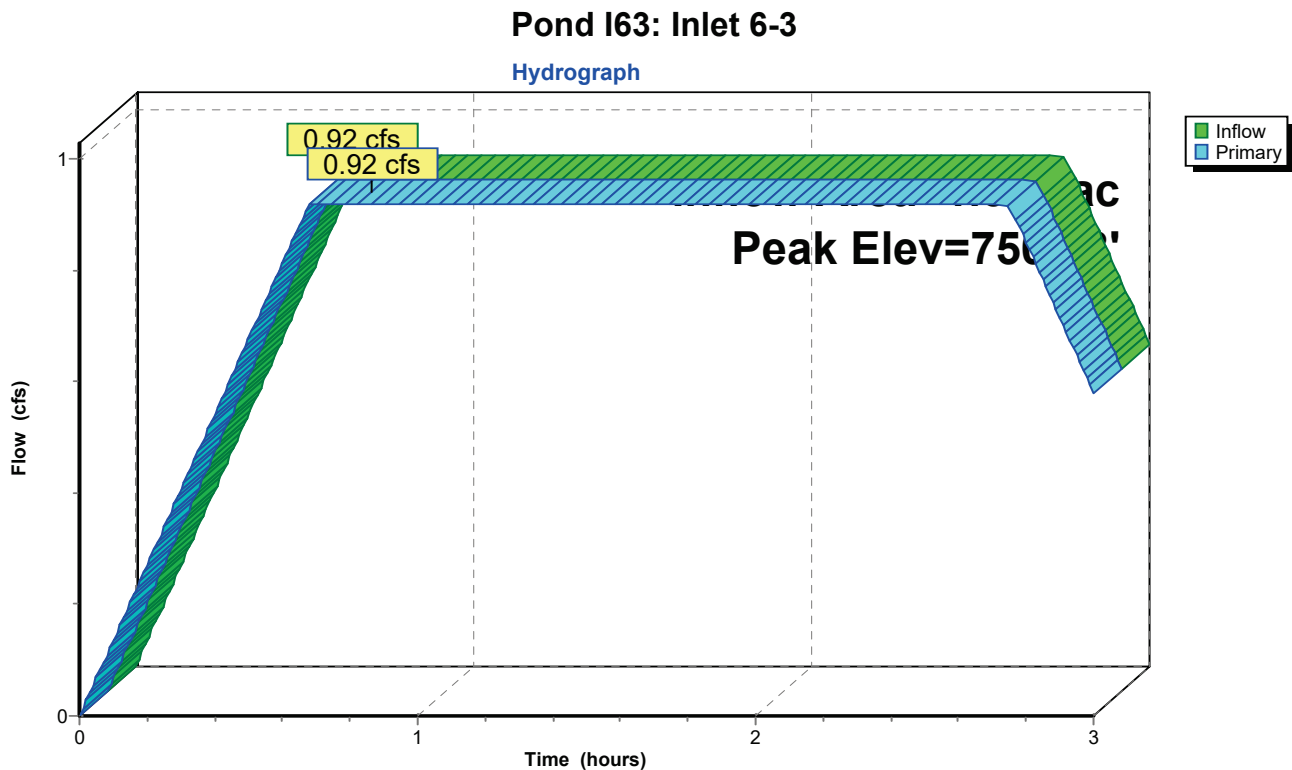
Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 750.48' @ 0.86 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	749.91'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.92 cfs @ 0.82 hrs HW=750.48' TW=750.31' (Dynamic Tailwater)

↑1=Orifice/Grate (Orifice Controls 0.92 cfs @ 1.97 fps)



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Summary for Pond I71: Inlet 7-1

[57] Hint: Peaked at 748.51' (Flood elevation advised)

[62] Hint: Exceeded Reach R81 OUTLET depth by 0.46' @ 2.77 hrs

Inflow Area = 2.152 ac, 49.07% Impervious, Inflow Depth > 2.95" for 100-yr event
 Inflow = 2.33 cfs @ 0.65 hrs, Volume= 0.529 af
 Outflow = 2.33 cfs @ 0.65 hrs, Volume= 0.529 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.33 cfs @ 0.65 hrs, Volume= 0.529 af
 Routed to Reach R71 : Pipe I71 to I15

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 748.51' @ 0.59 hrs

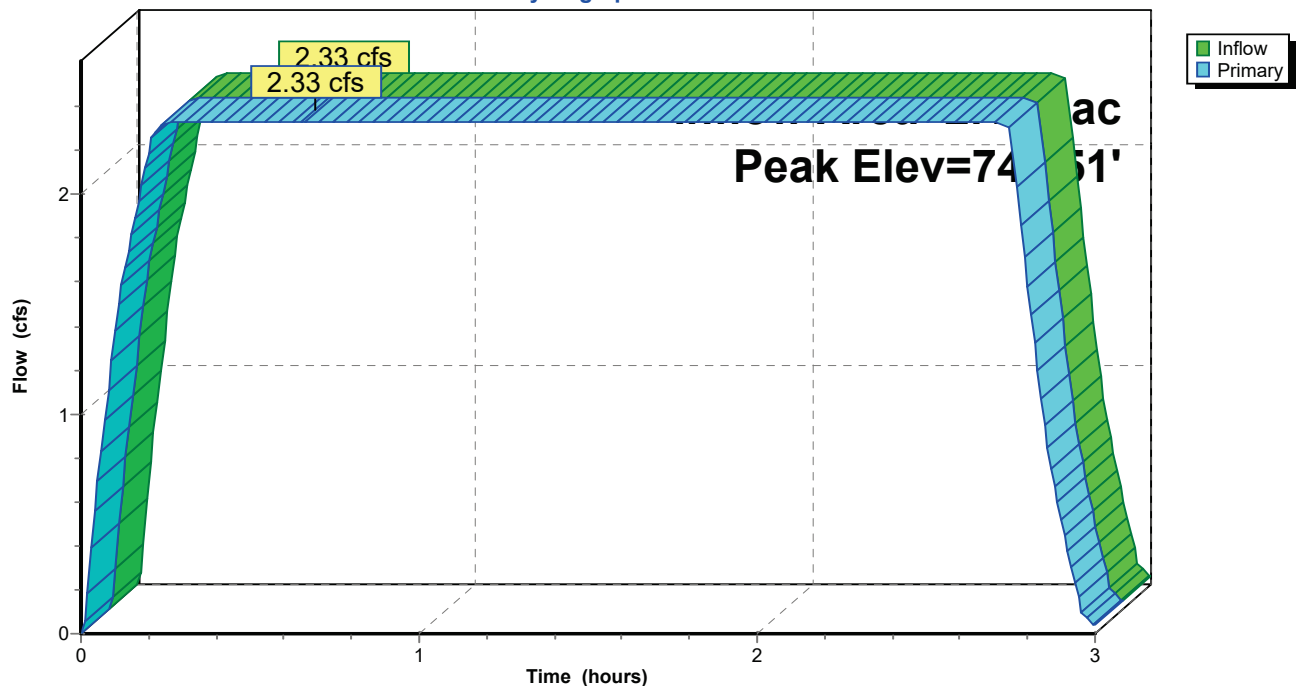
Device	Routing	Invert	Outlet Devices
#1	Primary	747.78'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	747.78'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	748.93'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=2.33 cfs @ 0.65 hrs HW=748.51' TW=748.36' (Dynamic Tailwater)

- 1=Orifice/Grate (Orifice Controls 1.16 cfs @ 1.89 fps)
- 2=Orifice/Grate (Orifice Controls 1.16 cfs @ 1.89 fps)
- 3=Orifice/Grate (Controls 0.00 cfs)

Pond I71: Inlet 7-1

Hydrograph



340656 - Rantoul Transfer Station - ProL-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

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Summary for Pond I81: Inlet 8-1

[57] Hint: Peaked at 749.01' (Flood elevation advised)

[62] Hint: Exceeded Reach R13 OUTLET depth by 0.19' @ 2.77 hrs

[62] Hint: Exceeded Reach R82 OUTLET depth by 0.08' @ 0.15 hrs

Inflow Area = 0.792 ac, 48.74% Impervious, Inflow Depth > 2.73" for 100-yr event
 Inflow = 0.79 cfs @ 0.32 hrs, Volume= 0.180 af
 Outflow = 0.79 cfs @ 0.32 hrs, Volume= 0.180 af, Atten= 0%, Lag= 0.1 min
 Primary = 0.79 cfs @ 0.32 hrs, Volume= 0.180 af
 Routed to Reach R81 : Pipe I81 to I71

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 749.01' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	748.66'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	748.69'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Primary	748.70'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.79 cfs @ 0.32 hrs HW=749.01' TW=748.94' (Dynamic Tailwater)

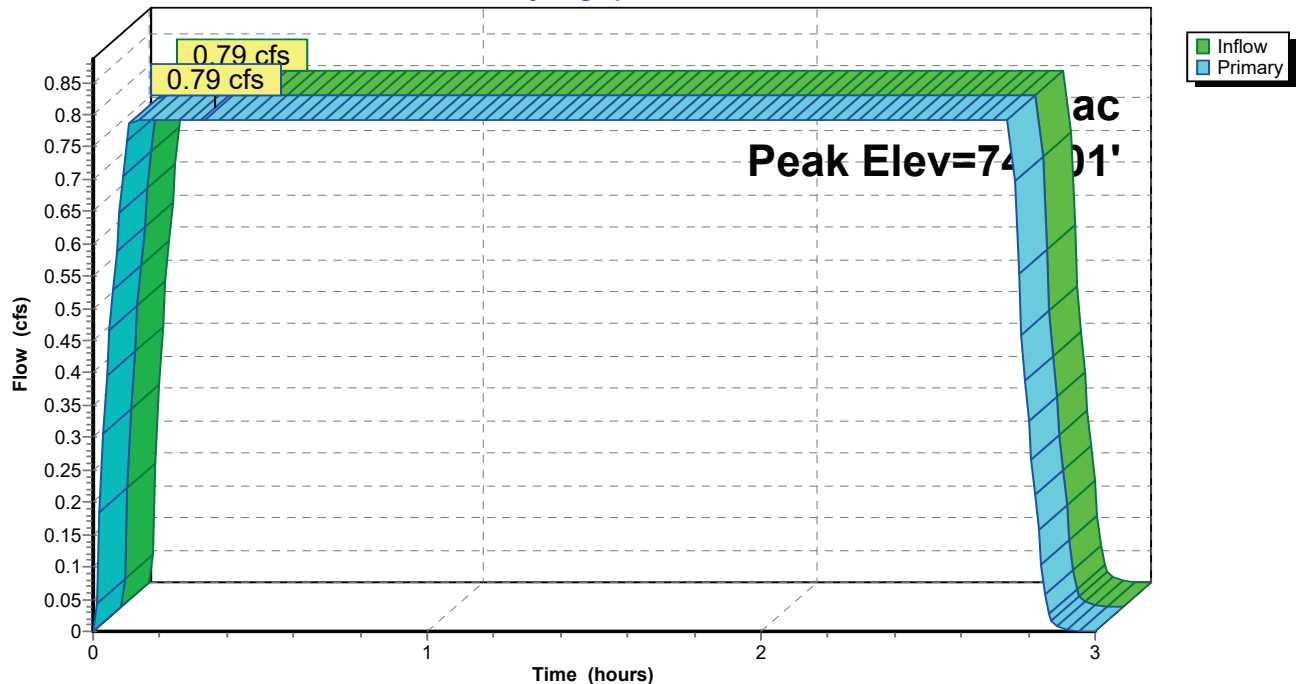
1=Orifice/Grate (Orifice Controls 0.29 cfs @ 1.21 fps)

2=Orifice/Grate (Orifice Controls 0.26 cfs @ 1.21 fps)

3=Orifice/Grate (Orifice Controls 0.25 cfs @ 1.21 fps)

Pond I81: Inlet 8-1

Hydrograph



340656 - Rantoul Transfer Station - Pro/L-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

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Summary for Pond I82: Inlet 8-2

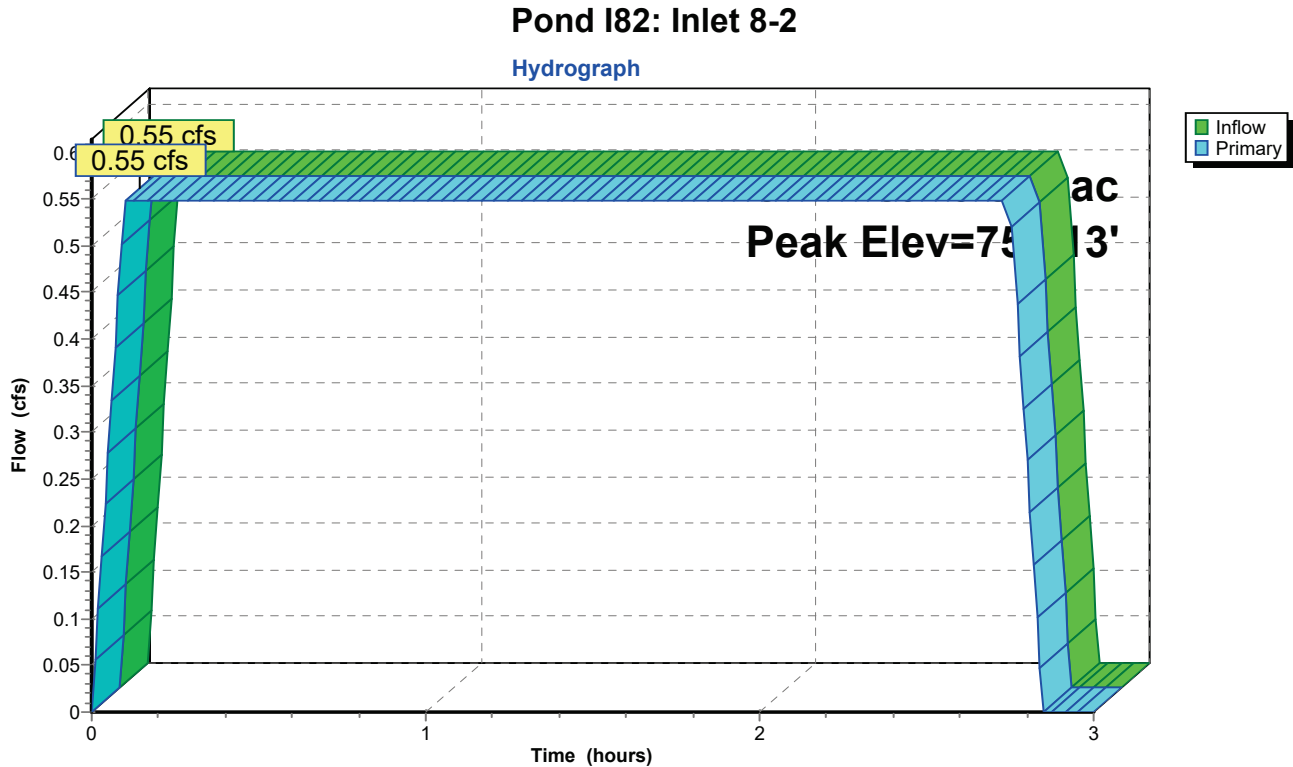
[57] Hint: Peaked at 751.13' (Flood elevation advised)

Inflow Area = 0.625 ac, 35.68% Impervious, Inflow Depth = 2.39" for 100-yr event
 Inflow = 0.55 cfs @ 0.10 hrs, Volume= 0.125 af
 Outflow = 0.55 cfs @ 0.10 hrs, Volume= 0.125 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.55 cfs @ 0.10 hrs, Volume= 0.125 af
 Routed to Reach R82 : Pipe I82 to I81

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 751.13' @ 0.24 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	750.74'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.53 cfs @ 0.10 hrs HW=751.12' TW=750.96' (Dynamic Tailwater)
 ↑ **1=Orifice/Grate** (Orifice Controls 0.53 cfs @ 1.92 fps)



340656 - Rantoul Transfer Station - Pro/L-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

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Summary for Pond I91: Inlet 9-1

[57] Hint: Peaked at 750.67' (Flood elevation advised)

[62] Hint: Exceeded Reach R92 OUTLET depth by 0.10' @ 2.78 hrs

Inflow Area = 0.640 ac, 25.31% Impervious, Inflow Depth > 2.71" for 100-yr event
 Inflow = 0.64 cfs @ 0.48 hrs, Volume= 0.144 af
 Outflow = 0.64 cfs @ 0.49 hrs, Volume= 0.144 af, Atten= 0%, Lag= 0.7 min
 Primary = 0.64 cfs @ 0.49 hrs, Volume= 0.144 af
 Routed to Reach R91 : Pipe I91 to I71

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 750.67' @ 0.57 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	750.30'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	750.30'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

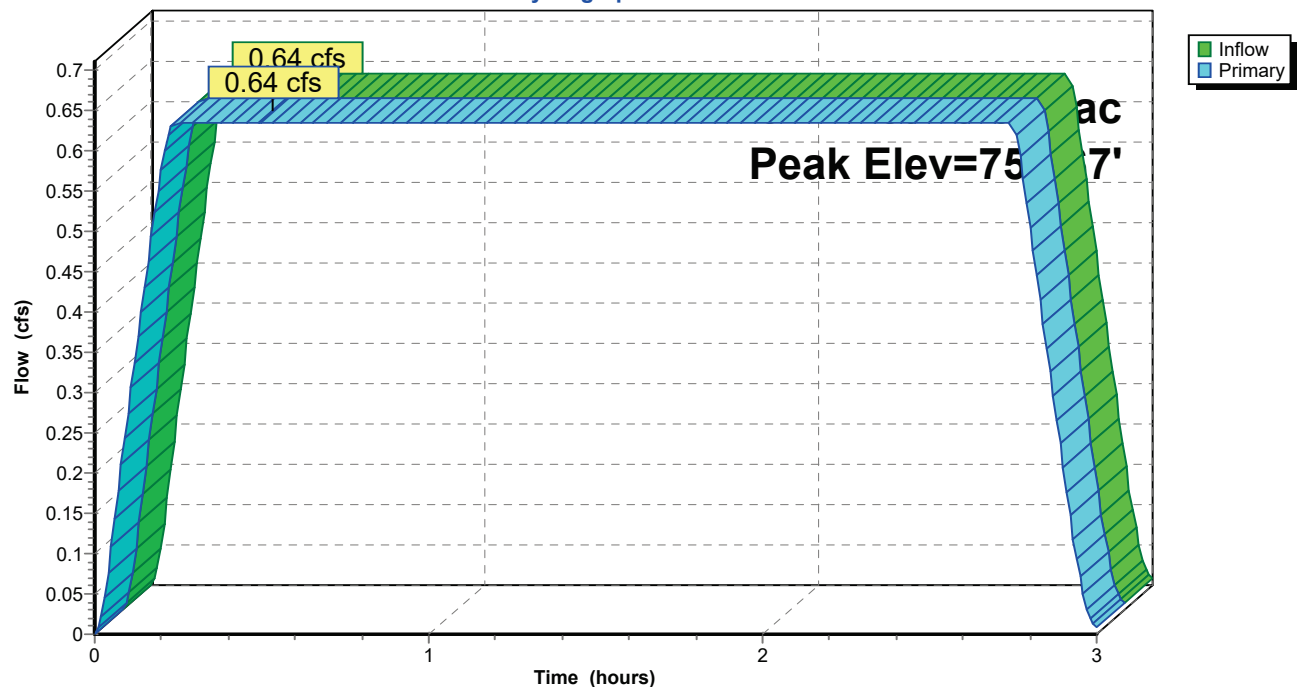
Primary OutFlow Max=0.64 cfs @ 0.49 hrs HW=750.67' TW=750.60' (Dynamic Tailwater)

1=Orifice/Grate (Orifice Controls 0.32 cfs @ 1.21 fps)

2=Orifice/Grate (Orifice Controls 0.32 cfs @ 1.21 fps)

Pond I91: Inlet 9-1

Hydrograph



340656 - Rantoul Transfer Station - Pro/L-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

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Summary for Pond I92: Inlet 9-2

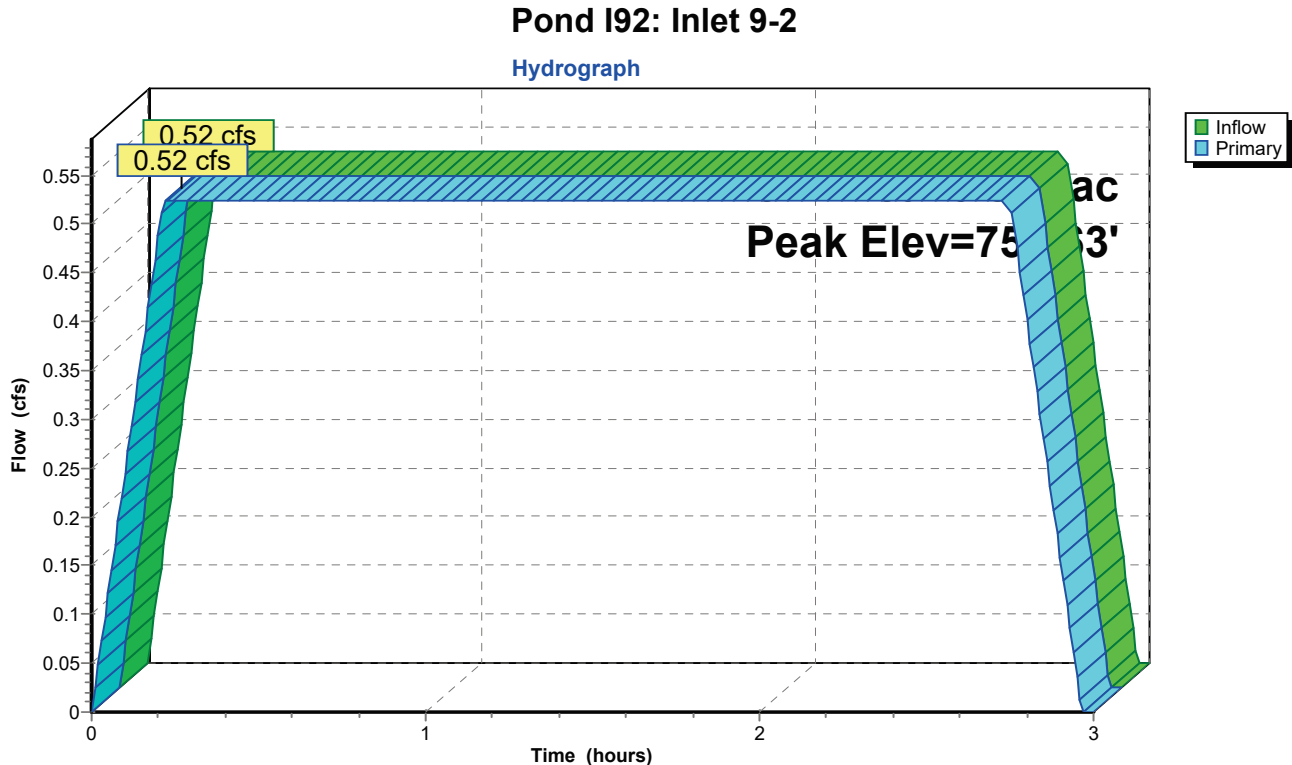
[57] Hint: Peaked at 751.63' (Flood elevation advised)

Inflow Area = 0.531 ac, 21.66% Impervious, Inflow Depth = 2.69" for 100-yr event
 Inflow = 0.52 cfs @ 0.22 hrs, Volume= 0.119 af
 Outflow = 0.52 cfs @ 0.23 hrs, Volume= 0.119 af, Atten= 0%, Lag= 0.6 min
 Primary = 0.52 cfs @ 0.23 hrs, Volume= 0.119 af
 Routed to Reach R92 : Pipe I92 to I91

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
 Peak Elev= 751.63' @ 0.42 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	751.22'	12.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.52 cfs @ 0.23 hrs HW=751.62' TW=751.49' (Dynamic Tailwater)
 ↑ **1=Orifice/Grate** (Orifice Controls 0.52 cfs @ 1.74 fps)



340656 - Rantoul Transfer Station - Pro/L-Rantoul 100-yr Duration=165 min, Inten=1.55 in/hr

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Summary for Pond P1: Detention Pond

[44] Hint: Outlet device #1 is below defined storage

[62] Hint: Exceeded Reach R14 OUTLET depth by 1.52' @ 2.99 hrs

Inflow Area = 12.789 ac, 22.18% Impervious, Inflow Depth > 2.24" for 100-yr event
 Inflow = 10.67 cfs @ 0.91 hrs, Volume= 2.386 af
 Outflow = 2.94 cfs @ 2.95 hrs, Volume= 0.590 af, Atten= 72%, Lag= 122.3 min
 Primary = 2.94 cfs @ 2.95 hrs, Volume= 0.590 af
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 738.64' @ 2.95 hrs Surf.Area= 1.117 ac Storage= 1.798 af

Plug-Flow detention time= 71.7 min calculated for 0.590 af (25% of inflow)

Center-of-Mass det. time= 9.6 min (100.4 - 90.9)

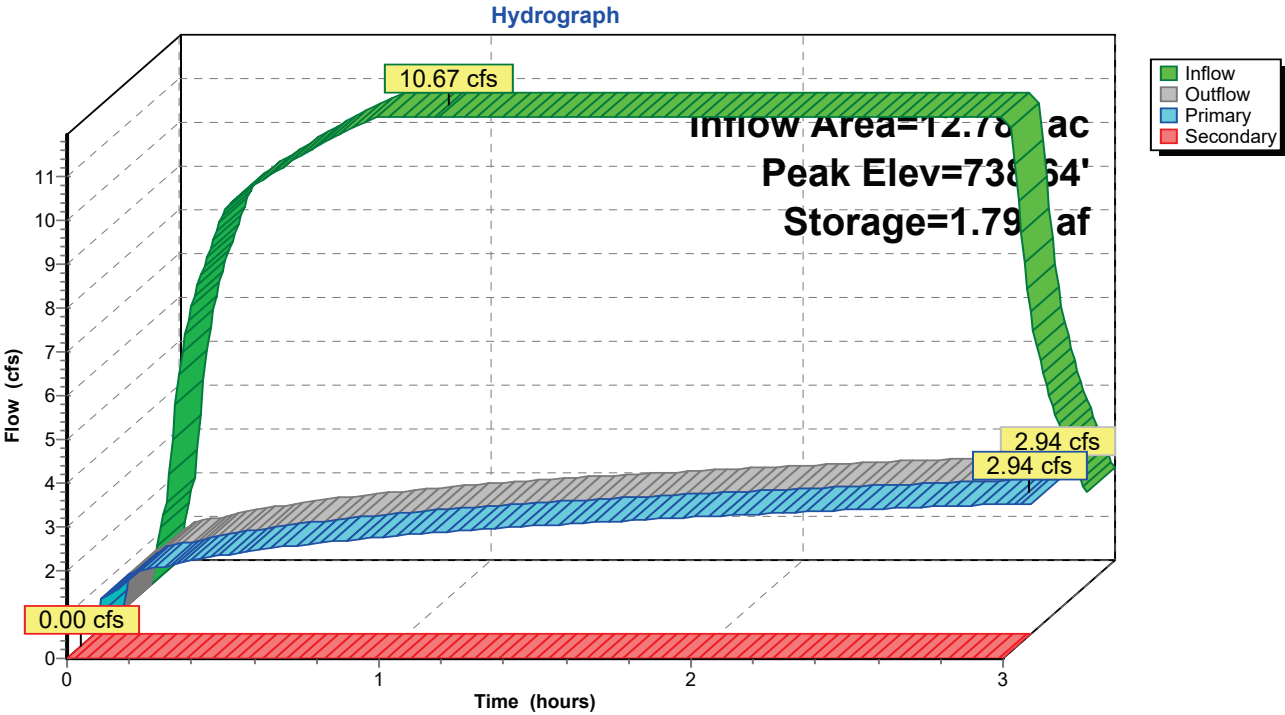
Volume	Invert	Avail.Storage	Storage Description
#1	736.00'	3.653 af	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
736.00	0.024	0.000	0.000
737.00	0.592	0.308	0.308
738.00	1.025	0.809	1.117
739.00	1.170	1.097	2.214
739.50	1.276	0.611	2.825
740.14	1.310	0.828	3.653

Device	Routing	Invert	Outlet Devices
#1	Primary	735.51'	8.0" Round Culvert L= 50.4' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 735.51' / 734.98' S= 0.0105 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 0.35 sf
#2	Secondary	739.50'	33.0' long x 8.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

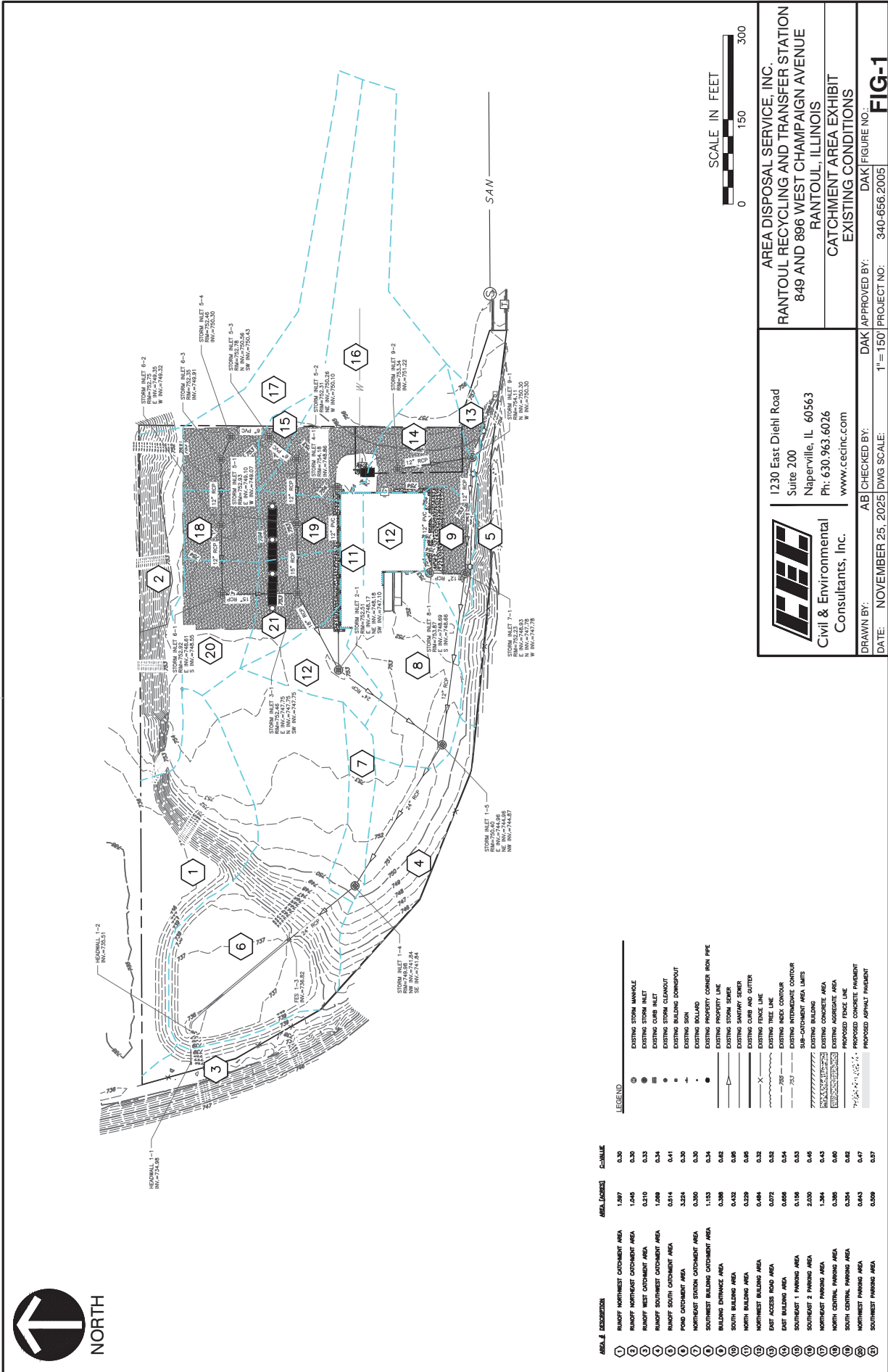
Primary OutFlow Max=2.94 cfs @ 2.95 hrs HW=738.64' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.94 cfs @ 8.43 fps)**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=736.00' (Free Discharge)↑**2=Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

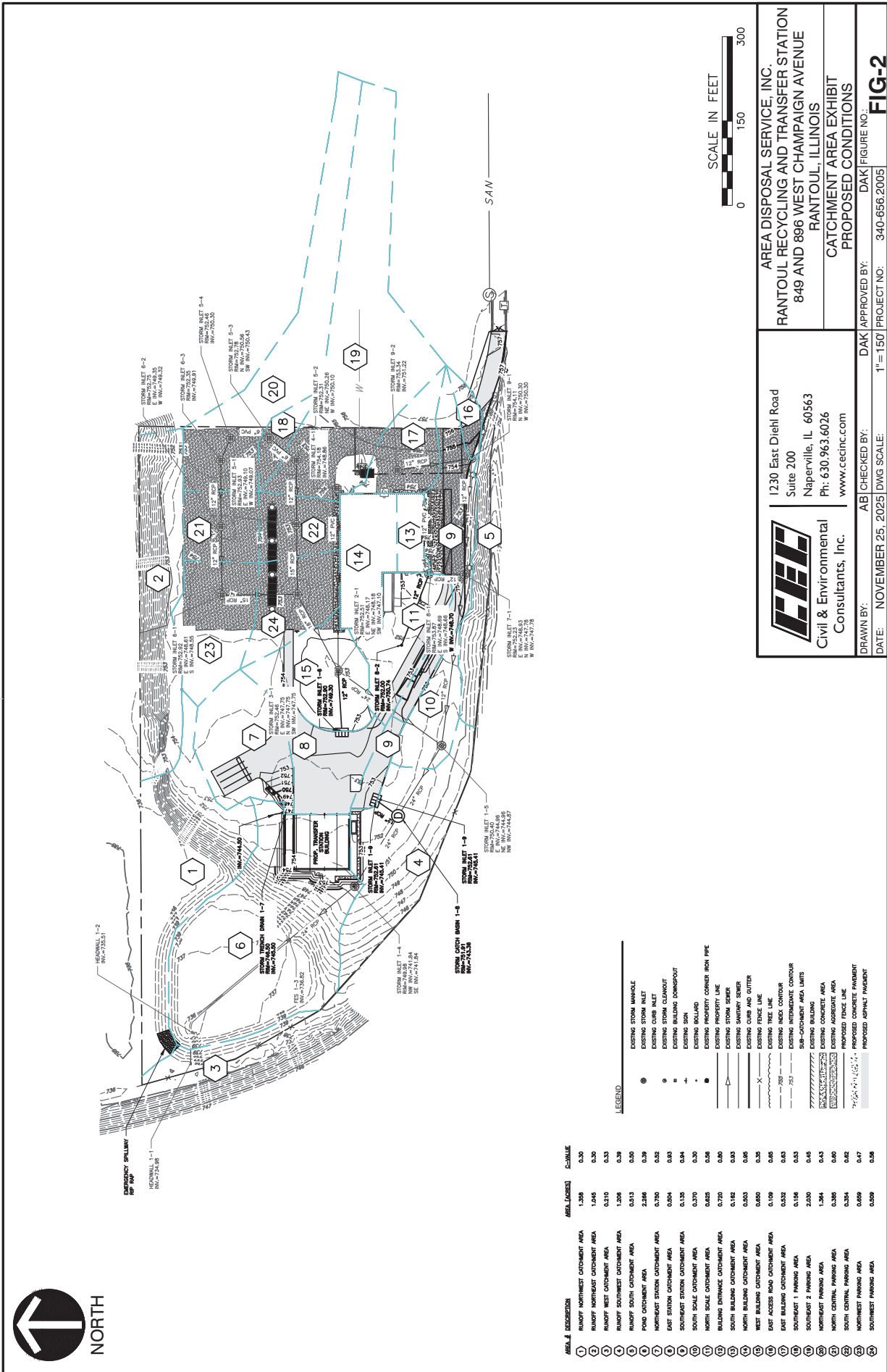
Pond P1: Detention Pond



APPENDIX 5

CATCHMENT AREA EXHIBITS





APPENDIX 6

CATCHMENT AREAS TABLE

Existing Conditions Catchment Area

HydroCAD ID	Area Description	Area (acres)	CN Description	C Value
N/A	Runoff North West Catchment Area	1.479	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D	0.30
		0.118	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
N/A	Runoff North East Catchment Area	0.670	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D	0.30
		0.367	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.009	Gravel	0.60
N/A	Runoff West Catchment Area	0.149	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D	0.30
		0.015	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.067	Orthents, loamy, 1 to 7 percent slopes (802B), Well drained, HSG C	0.40
N/A	Runoff South West Catchment Area	0.689	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.380	Orthents, loamy, 1 to 7 percent slopes (802B), Well drained, HSG C	0.40
N/A	Runoff South Catchment Area	0.031	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.048	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.198	Westmoreland-Berks complex, 40 to 70 percent slopes (56B), Well drained, HSG B	0.42
		0.227	Orthents, loamy, 1 to 7 percent slopes (802B), Well drained, HSG C	0.40
		0.010	Gravel	0.60
CA6	Pond Catchment Area	1.253	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D	0.30
		1.908	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.063	Orthents, loamy, 1 to 7 percent slopes (802B), Well drained, HSG C	0.40
CA7	West Access Road Catchment Area	0.348	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.002	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D	0.30
CA8	West Building Catchment Area	0.960	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.136	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.007	Orthents, loamy, 1 to 7 percent slopes (802B), Well drained, HSG C	0.4
		0.051	Sidewalk	0.95
CA9	Building Entrance Catchment Area	0.032	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C	0.42
		0.111	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.004	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.096	Sidewalk	0.95
		0.144	Gravel	0.60
CA10	South Building Catchment Area	0.432	Building	0.95
CA11	North Building Catchment Area	0.229	Building	0.95
CA12		0.368	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30

	Northwest Building Catchment Area	0.095	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D	0.30
		0.011	Sidewalk	0.95
		0.010	Gravel	0.60
CA13	East Access Road Catchment Area	0.031	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C	0.42
		0.041	Gravel	0.60
CA14	East Building Catchment Area	0.216	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C	0.42
		0.032	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.008	Sidewalk	0.95
		0.400	Gravel	0.60
CA15	Southeast 1 Parking Area	0.060	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.096	Gravel	0.60
CA16	Southeast 2 Parking Area	0.951	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C	0.42
		0.609	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.101	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.006	Sidewalk	0.95
		0.363	Gravel	0.60
CA17	Northeast Parking Area	0.338	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C	0.42
		0.319	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.362	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.345	Gravel	0.60
CA18	North Central Parking Area	0.385	Gravel	0.60
CA19	South Central Parking Area	0.003	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.331	Gravel	0.60
		0.020	Sidewalk	0.95
CA20	Northwest Parking Area	0.280	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D	0.30
		0.363	Gravel	0.60
CA21	Southwest Parking Area	0.065	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D	0.30
		0.024	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.001	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.026	Sidewalk	0.95
		0.394	Gravel	0.60

Proposed Conditions Catchment Area

HydroCAD ID	Area Description	Area (acres)	CN Description	C Value
N/A	Runoff Northwest Catchment Area	1.240	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D	0.30
		0.118	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
N/A	Runoff Northeast Catchment Area	0.670	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D	0.30
		0.367	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.009	Gravel	0.60
N/A	Runoff West Catchment Area	0.138	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D	0.30
		0.014	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.058	Orthents, loamy, 1 to 7 percent slopes (802B), Well drained, HSG C	0.40
N/A	Runoff Southwest Catchment Area	0.725	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.380	Orthents, loamy, 1 to 7 percent slopes (802B), Well drained, HSG C	0.40
		0.007	Building	0.95
		0.080	Asphalt	0.95
		0.015	Sidewalk	0.95
N/A	Runoff South Catchment Area	0.032	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.048	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.114	Westmoreland-Berks complex, 40 to 70 percent slopes (56B), Well drained, HSG B	0.42
		0.225	Orthents, loamy, 1 to 7 percent slopes (802B), Well drained, HSG C	0.40
		0.092	Asphalt	0.95
		0.002	Gravel	0.60
CA6	Pond Catchment Area	0.523	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D	0.30
		1.385	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.063	Orthents, loamy, 1 to 7 percent slopes (802B), Well drained, HSG C	0.40
		0.005	Sidewalk	0.95
		0.290	Building	0.95
CA7	Northeast Station Catchment Area	0.479	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D	0.30
		0.022	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.249	Asphalt	0.95
CA8	East Station Catchment Area	0.012	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.492	Asphalt	0.95
CA9	Southeast Station Catchment Area	0.002	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.133	Asphalt	0.95
CA10	South Scale Catchment Area	0.364	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.007	Orthents, loamy, 1 to 7 percent slopes (802B), Well drained, HSG C	0.40
CA11	North Scale Catchment Area	0.032	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C	0.42
		0.111	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.258	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.162	Asphalt	0.95

		0.061	Sidewalk	0.95
		0.000	Gravel	0.60
CA12	Building Entrance Catchment Area	0.132	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C	0.42
		0.046	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.000	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.413	Asphalt	0.95
		0.095	Sidewalk	0.95
		0.033	Gravel	0.60
CA13	South Building Catchment Area	0.157	Building	0.95
		0.001	Sidewalk	0.95
		0.004	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
CA14	North Building Catchment Area	0.503	Building	0.95
CA15	West Building Catchment Area	0.394	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.199	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D	0.30
		0.036	Asphalt	0.95
		0.010	Gravel	0.60
		0.011	Sidewalk	0.95
CA16	East Access Road Catchment Area	0.061	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C	0.42
		0.047	Asphalt	0.95
		0.000	Gravel	0.60
CA17	East Building Catchment Area	0.115	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C	0.42
		0.032	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.008	Sidewalk	0.95
		0.107	Asphalt	0.95
		0.269	Gravel	0.60
CA18	Southeast 1 Parking Area	0.060	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.096	Gravel	0.60
CA19	Southeast 2 Parking Area	0.951	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C	0.42
		0.609	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.101	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.006	Sidewalk	0.95
		0.363	Gravel	0.60
CA20	Northeast Parking Area	0.338	Dana silt loam, 2 to 5 percent slopes (56B), Well drained, HSG C	0.42
		0.319	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.362	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.345	Gravel	0.60
CA21	North Central Parking Area	0.385	Gravel	0.60
CA22	South Central Parking Area	0.003	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.331	Gravel	0.60
		0.020	Sidewalk	0.95

CA23	Northwest Parking Area	0.296	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D	0.30
		0.363	Gravel	0.60
CA24	Southwest Parking Area	0.065	Drummer silty clay loam, 0 to 2 percent slopes (152A), Poorly drained, HSG B/D	0.30
		0.001	Wyanet silt loam, 5 to 10 percent slopes, eroded (622C2), Well drained, HSG C	0.42
		0.015	Raub silt loam, 0 to 2 percent slopes (481A), Poorly drained, HSG B/D	0.30
		0.009	Asphalt	0.95
		0.026	Sidewalk	0.95
		0.394	Gravel	0.60

APPENDIX 7

PRECIPITATION FREQUENCY DATA



NOAA Atlas 14, Volume 2, Version 3
Location name: Rantoul, Illinois, USA*
Latitude: 40.3065°, Longitude: -88.1464°
Elevation: 738 ft**
 * source: ESRI Maps
 ** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

G.M. Bonnin, D. Martin, B. Lin, T. Parzybok, M. Yekta, and D. Riley

NOAA, National Weather Service, Silver Spring, Maryland

[PF_tabular](#) | [PF_graphical](#) | [Maps_&_aerials](#)

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches) ¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.408 (0.376-0.443)	0.483 (0.446-0.526)	0.574 (0.527-0.625)	0.645 (0.591-0.702)	0.738 (0.673-0.803)	0.811 (0.736-0.881)	0.882 (0.797-0.958)	0.957 (0.860-1.04)	1.06 (0.942-1.15)	1.14 (1.00-1.23)
10-min	0.633 (0.585-0.689)	0.754 (0.696-0.822)	0.892 (0.819-0.972)	0.996 (0.913-1.08)	1.13 (1.03-1.23)	1.23 (1.12-1.34)	1.33 (1.20-1.44)	1.43 (1.28-1.55)	1.56 (1.38-1.69)	1.65 (1.46-1.80)
15-min	0.776 (0.717-0.844)	0.922 (0.851-1.00)	1.10 (1.00-1.19)	1.22 (1.12-1.33)	1.39 (1.27-1.52)	1.52 (1.38-1.65)	1.65 (1.49-1.79)	1.78 (1.60-1.93)	1.94 (1.73-2.11)	2.06 (1.83-2.24)
30-min	1.03 (0.948-1.12)	1.23 (1.14-1.34)	1.50 (1.38-1.63)	1.70 (1.56-1.85)	1.97 (1.80-2.14)	2.17 (1.97-2.36)	2.38 (2.15-2.59)	2.59 (2.33-2.82)	2.88 (2.56-3.13)	3.10 (2.74-3.37)
60-min	1.25 (1.16-1.36)	1.51 (1.40-1.65)	1.88 (1.73-2.05)	2.16 (1.98-2.36)	2.55 (2.33-2.78)	2.86 (2.60-3.11)	3.18 (2.88-3.46)	3.52 (3.16-3.82)	3.98 (3.54-4.32)	4.35 (3.85-4.73)
2-hr	1.49 (1.36-1.63)	1.79 (1.64-1.96)	2.20 (2.02-2.41)	2.55 (2.33-2.79)	3.05 (2.78-3.33)	3.49 (3.17-3.80)	3.98 (3.59-4.32)	4.52 (4.07-4.91)	5.36 (4.79-5.82)	6.09 (5.41-6.62)
3-hr	1.59 (1.46-1.75)	1.92 (1.76-2.11)	2.37 (2.18-2.61)	2.75 (2.51-3.02)	3.31 (3.02-3.62)	3.81 (3.45-4.16)	4.36 (3.94-4.76)	4.99 (4.48-5.44)	5.97 (5.31-6.50)	6.84 (6.03-7.44)
6-hr	1.89 (1.73-2.08)	2.27 (2.08-2.50)	2.79 (2.54-3.07)	3.23 (2.94-3.55)	3.90 (3.53-4.27)	4.48 (4.04-4.89)	5.13 (4.60-5.60)	5.88 (5.24-6.40)	7.03 (6.21-7.65)	8.04 (7.06-8.75)
12-hr	2.20 (2.02-2.40)	2.64 (2.42-2.89)	3.22 (2.96-3.52)	3.71 (3.40-4.06)	4.45 (4.06-4.86)	5.09 (4.62-5.54)	5.81 (5.25-6.32)	6.63 (5.96-7.20)	7.87 (7.01-8.55)	8.98 (7.95-9.74)
24-hr	2.54 (2.37-2.75)	3.03 (2.83-3.28)	3.69 (3.44-4.01)	4.27 (3.96-4.64)	5.14 (4.73-5.61)	5.91 (5.38-6.47)	6.80 (6.13-7.46)	7.81 (6.95-8.63)	9.40 (8.19-10.5)	10.8 (9.27-12.2)
2-day	2.95 (2.77-3.16)	3.51 (3.29-3.76)	4.24 (3.97-4.54)	4.86 (4.54-5.22)	5.80 (5.38-6.26)	6.64 (6.09-7.20)	7.59 (6.87-8.29)	8.67 (7.76-9.56)	10.4 (9.07-11.6)	11.8 (10.2-13.5)
3-day	3.15 (2.96-3.36)	3.74 (3.52-4.00)	4.50 (4.22-4.80)	5.14 (4.81-5.49)	6.09 (5.66-6.53)	6.92 (6.38-7.46)	7.85 (7.16-8.52)	8.90 (8.03-9.75)	10.5 (9.31-11.7)	12.0 (10.5-13.5)
4-day	3.34 (3.15-3.56)	3.98 (3.75-4.24)	4.75 (4.48-5.06)	5.41 (5.08-5.76)	6.37 (5.94-6.80)	7.20 (6.66-7.72)	8.12 (7.44-8.76)	9.14 (8.30-9.94)	10.7 (9.55-11.8)	12.2 (10.7-13.6)
7-day	3.95 (3.74-4.18)	4.67 (4.42-4.94)	5.48 (5.19-5.80)	6.15 (5.82-6.51)	7.14 (6.71-7.58)	7.97 (7.46-8.50)	8.88 (8.25-9.51)	9.88 (9.10-10.7)	11.4 (10.3-12.4)	12.7 (11.3-14.0)
10-day	4.49 (4.26-4.74)	5.30 (5.03-5.59)	6.19 (5.88-6.53)	6.93 (6.56-7.30)	7.98 (7.52-8.44)	8.86 (8.30-9.41)	9.80 (9.14-10.5)	10.8 (10.0-11.6)	12.3 (11.2-13.4)	13.6 (12.2-14.9)
20-day	6.07 (5.78-6.38)	7.13 (6.80-7.49)	8.20 (7.82-8.61)	9.07 (8.63-9.52)	10.3 (9.75-10.8)	11.3 (10.7-11.9)	12.3 (11.6-13.1)	13.4 (12.5-14.3)	15.0 (13.8-16.1)	16.2 (14.9-17.7)
30-day	7.50 (7.17-7.85)	8.77 (8.39-9.20)	10.0 (9.57-10.5)	11.0 (10.5-11.5)	12.4 (11.8-13.1)	13.6 (12.9-14.4)	14.9 (14.0-15.7)	16.2 (15.1-17.3)	18.1 (16.7-19.5)	19.6 (18.0-21.4)
45-day	9.41 (9.00-9.83)	11.0 (10.5-11.5)	12.4 (11.9-13.0)	13.6 (13.0-14.2)	15.2 (14.5-16.0)	16.5 (15.7-17.4)	17.9 (16.9-18.9)	19.3 (18.1-20.5)	21.2 (19.8-22.8)	22.8 (21.1-24.7)
60-day	11.2 (10.7-11.7)	13.1 (12.5-13.7)	14.7 (14.1-15.4)	16.1 (15.4-16.8)	17.9 (17.1-18.8)	19.4 (18.4-20.4)	20.9 (19.8-22.1)	22.5 (21.2-23.9)	24.7 (23.0-26.5)	26.4 (24.5-28.7)

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

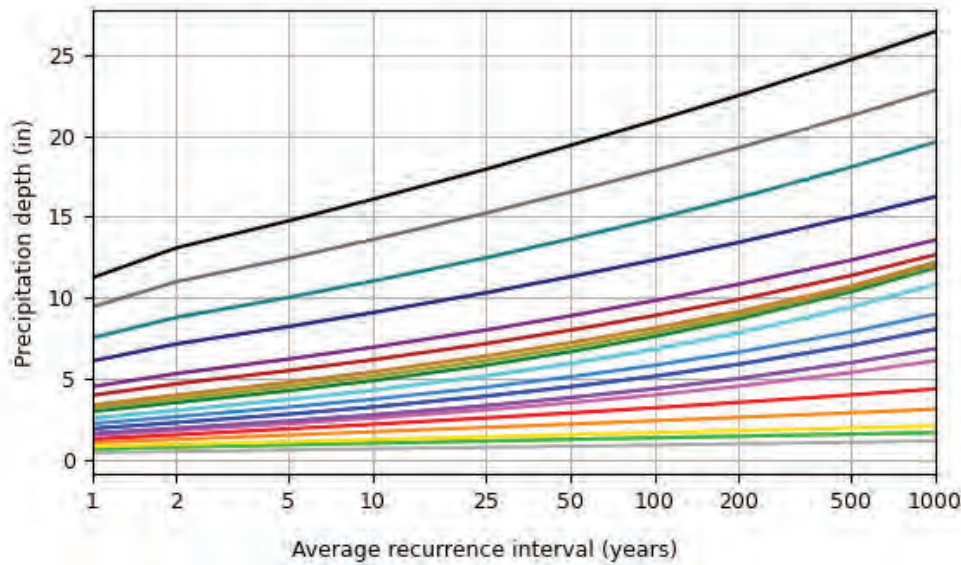
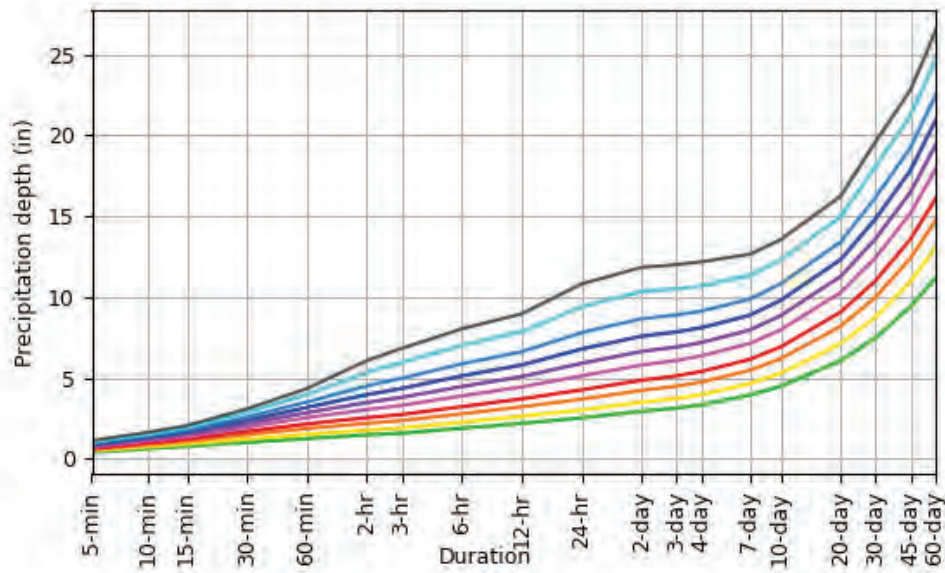
Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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PF graphical

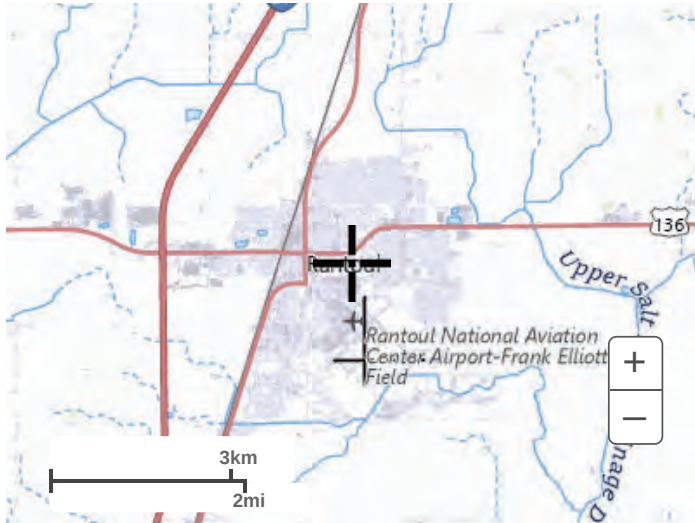
PDS-based depth-duration-frequency (DDF) curves
Latitude: 40.3065°, Longitude: -88.1464°



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Maps & aerials

Small scale terrain



Large scale terrain



Large scale map



Large scale aerial



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APPENDIX 8

NATIONAL FLOOD HAZARD AREA FIRMETTE

APPENDIX 9

SOIL RESOURCE REPORT



United States
Department of
Agriculture

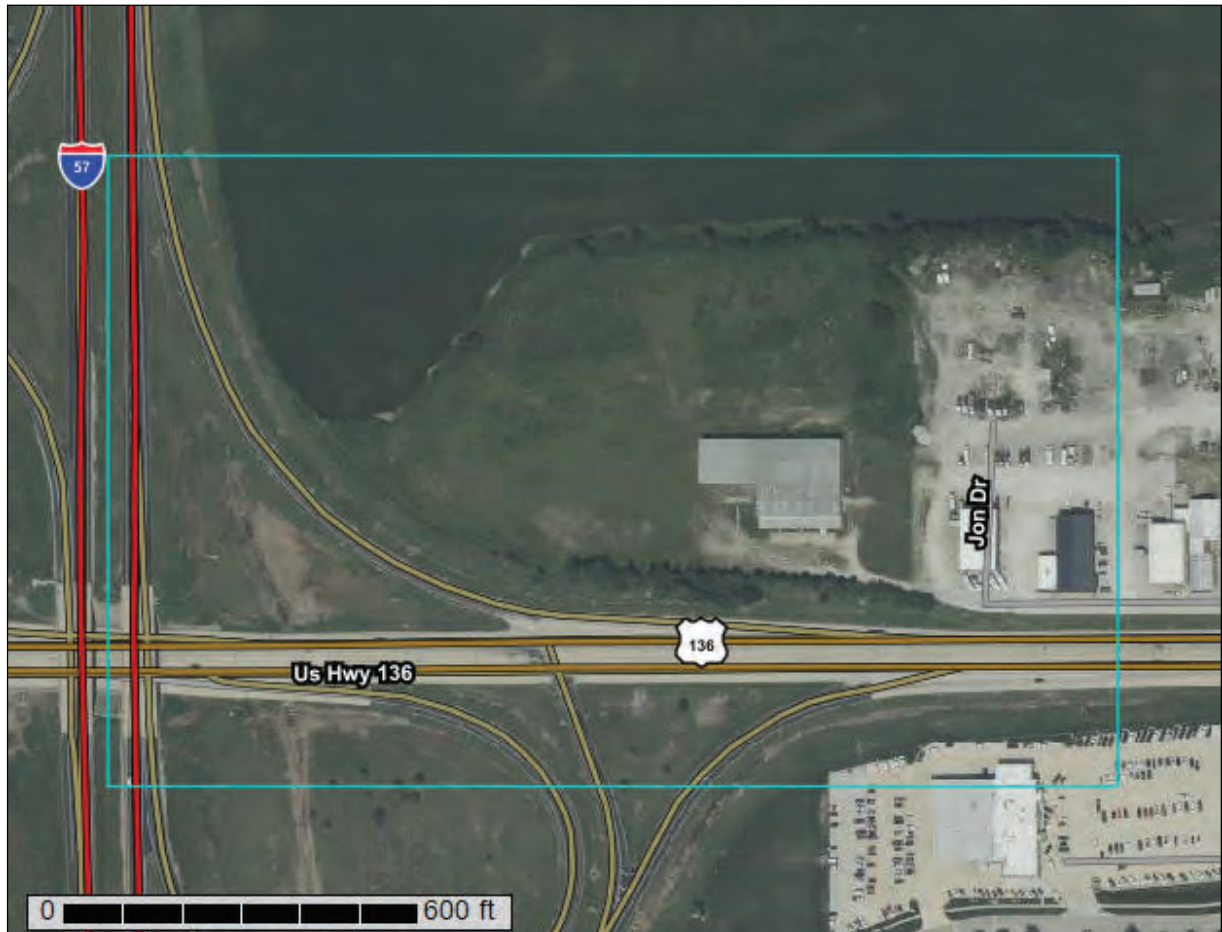
NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Champaign County, Illinois**

Rantoul Transfer Station



May 12, 2025

R-866

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units).

Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

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scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

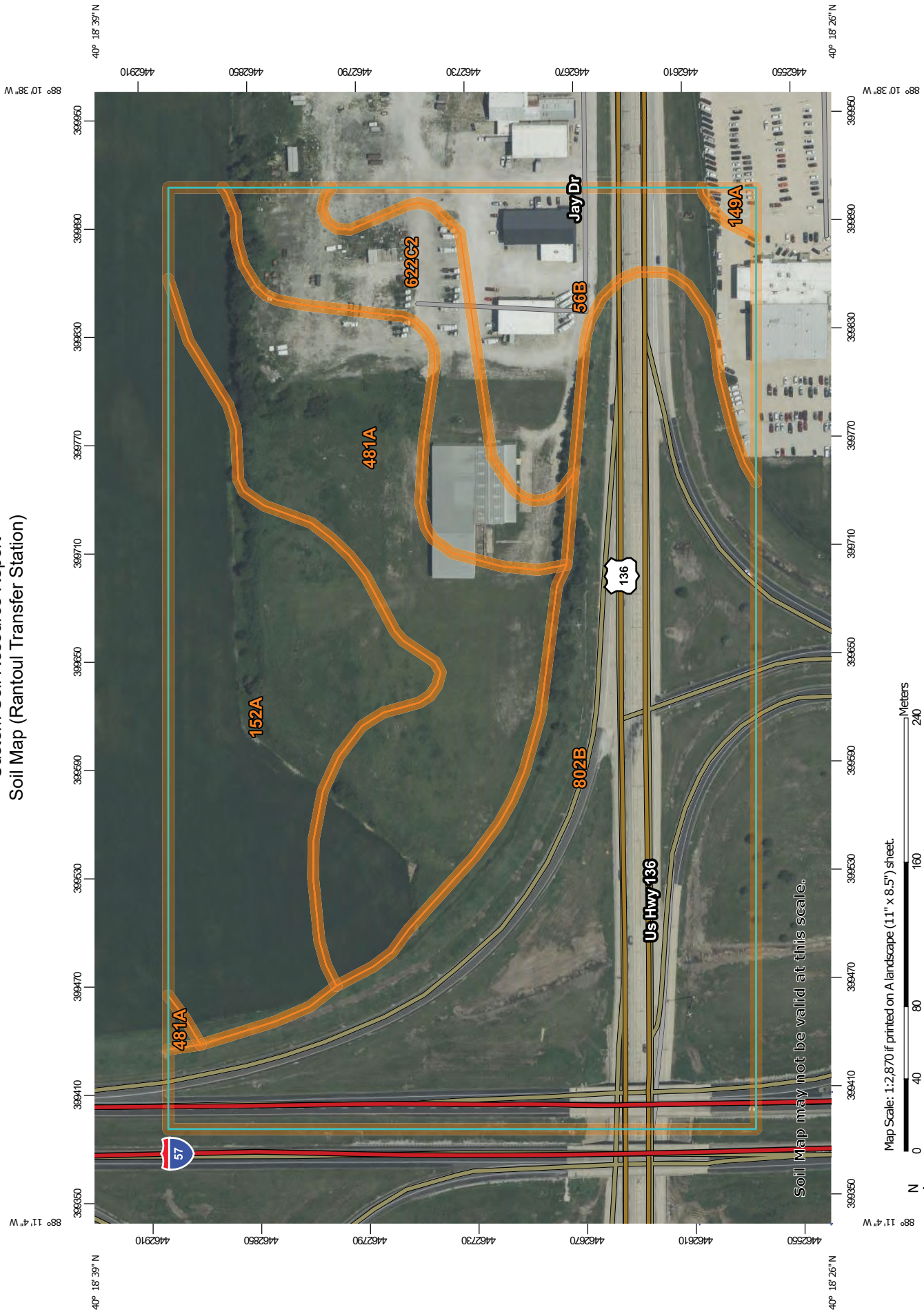
Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map (Rantoul Transfer Station)



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Map Unit Legend (Rantoul Transfer Station)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
56B	Dana silt loam, 2 to 5 percent slopes	4.4	10.4%
149A	Brenton silt loam, 0 to 2 percent slopes	0.1	0.3%
152A	Drummer silty clay loam, 0 to 2 percent slopes	7.8	18.6%
481A	Raub silt loam, non-densic substratum, 0 to 2 percent slopes	8.9	21.3%
622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded	3.3	7.8%
802B	Orthents, loamy, 1 to 7 percent slopes	17.5	41.6%
Totals for Area of Interest		42.0	100.0%

Map Unit Descriptions (Rantoul Transfer Station)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit

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descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

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Champaign County, Illinois**56B—Dana silt loam, 2 to 5 percent slopes****Map Unit Setting***National map unit symbol:* 2smzw*Elevation:* 610 to 850 feet*Mean annual precipitation:* 37 to 43 inches*Mean annual air temperature:* 48 to 54 degrees F*Frost-free period:* 165 to 190 days*Farmland classification:* All areas are prime farmland**Map Unit Composition***Dana and similar soils:* 96 percent*Minor components:* 4 percent*Estimates are based on observations, descriptions, and transects of the mapunit.***Description of Dana****Setting***Landform:* Ground moraines, till plains*Landform position (two-dimensional):* Summit, shoulder*Landform position (three-dimensional):* Interfluve*Down-slope shape:* Convex*Across-slope shape:* Convex*Parent material:* Loess over loamy till**Typical profile***Ap - 0 to 11 inches:* silt loam*Bt1 - 11 to 32 inches:* silty clay loam*2Bt2 - 32 to 58 inches:* clay loam*2C - 58 to 79 inches:* loam**Properties and qualities***Slope:* 2 to 5 percent*Depth to restrictive feature:* More than 80 inches*Drainage class:* Moderately well drained*Runoff class:* Low*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.60 in/hr)*Depth to water table:* About 24 to 42 inches*Frequency of flooding:* None*Frequency of ponding:* None*Calcium carbonate, maximum content:* 40 percent*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*Available water supply, 0 to 60 inches:* High (about 9.8 inches)**Interpretive groups***Land capability classification (irrigated):* None specified*Land capability classification (nonirrigated):* 2e*Hydrologic Soil Group:* C*Ecological site:* R108XA006IL - Loess Upland Prairie*Hydric soil rating:* No

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Minor Components**Drummer, drained***Percent of map unit:* 4 percent*Landform:* Swales on till plains*Landform position (two-dimensional):* Toeslope*Landform position (three-dimensional):* Base slope*Down-slope shape:* Linear*Across-slope shape:* Concave*Ecological site:* R108XA013IL - Wet Outwash Prairie, R110XY024IL - Ponded*Depressional Sedge Meadow**Hydric soil rating:* Yes**149A—Brenton silt loam, 0 to 2 percent slopes****Map Unit Setting***National map unit symbol:* 2sssp*Elevation:* 490 to 1,010 feet*Mean annual precipitation:* 35 to 43 inches*Mean annual air temperature:* 46 to 54 degrees F*Frost-free period:* 155 to 200 days*Farmland classification:* All areas are prime farmland**Map Unit Composition***Brenton and similar soils:* 97 percent*Minor components:* 3 percent*Estimates are based on observations, descriptions, and transects of the mapunit.***Description of Brenton****Setting***Landform:* Outwash plains, stream terraces*Landform position (two-dimensional):* Summit, footslope*Landform position (three-dimensional):* Interfluve, tread*Down-slope shape:* Linear*Across-slope shape:* Linear*Parent material:* Loess over stratified loamy outwash**Typical profile***Ap - 0 to 14 inches:* silt loam*Bt1 - 14 to 33 inches:* silty clay loam*2Bt2 - 33 to 54 inches:* loam*2Cg - 54 to 79 inches:* stratified silt loam to loamy sand**Properties and qualities***Slope:* 0 to 2 percent*Depth to restrictive feature:* More than 80 inches*Drainage class:* Somewhat poorly drained*Runoff class:* Low

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Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)

Depth to water table: About 12 to 24 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: High (about 9.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 1

Hydrologic Soil Group: B/D

Ecological site: R108XA012IL - Outwash Prairie, R111XD020IN - Wet Outwash
Mollisol

Hydric soil rating: No

Minor Components**Drummer, drained**

Percent of map unit: 3 percent

Landform: Swales on till plains, swales on outwash plains

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Base slope

Down-slope shape: Linear

Across-slope shape: Concave

Ecological site: R108XA013IL - Wet Outwash Prairie, R110XY024IL - Ponded

Depressional Sedge Meadow

Hydric soil rating: Yes

152A—Drummer silty clay loam, 0 to 2 percent slopes**Map Unit Setting**

National map unit symbol: 2ssrz

Elevation: 490 to 1,020 feet

Mean annual precipitation: 33 to 43 inches

Mean annual air temperature: 46 to 54 degrees F

Frost-free period: 160 to 190 days

Farmland classification: Prime farmland if drained

Map Unit Composition

Drummer, drained, and similar soils: 94 percent

Minor components: 6 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Drummer, Drained**Setting**

Landform: Stream terraces on outwash plains, stream terraces on till plains,
swales on outwash plains, swales on till plains

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Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Base slope, tal

Down-slope shape: Linear

Across-slope shape: Linear, concave

Parent material: Loess over stratified loamy outwash

Typical profile

Ap - 0 to 14 inches: silty clay loam

Btg - 14 to 41 inches: silty clay loam

2Btg - 41 to 47 inches: loam

2Cg - 47 to 60 inches: stratified sandy loam to clay loam

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)

Depth to water table: About 0 to 12 inches

Frequency of flooding: None

Frequency of ponding: Frequent

Calcium carbonate, maximum content: 30 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: High (about 9.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: B/D

Ecological site: R108XA013IL - Wet Outwash Prairie, R110XY024IL - Pondered

Depressional Sedge Meadow, R111XD020IN - Wet Outwash Mollisol

Hydric soil rating: Yes

Minor Components**Peotone, drained**

Percent of map unit: 3 percent

Landform: Depressions on outwash plains

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R110XY024IL - Pondered Depressional Sedge Meadow

Hydric soil rating: Yes

Harpster, drained

Percent of map unit: 3 percent

Landform: Depressions on outwash plains

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R110XY025IL - Pondered Calcareous Sedge Meadow

Hydric soil rating: Yes

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481A—Raub silt loam, non-densic substratum, 0 to 2 percent slopes**Map Unit Setting***National map unit symbol:* 2smzs*Elevation:* 600 to 880 feet*Mean annual precipitation:* 35 to 43 inches*Mean annual air temperature:* 48 to 54 degrees F*Frost-free period:* 160 to 190 days*Farmland classification:* All areas are prime farmland**Map Unit Composition***Raub and similar soils:* 94 percent*Minor components:* 6 percent*Estimates are based on observations, descriptions, and transects of the mapunit.***Description of Raub****Setting***Landform:* Ground moraines, till plains*Landform position (two-dimensional):* Summit, footslope*Landform position (three-dimensional):* Interfluve*Down-slope shape:* Linear*Across-slope shape:* Linear*Parent material:* Loess over loamy till**Typical profile***Ap - 0 to 18 inches:* silt loam*Bt1 - 18 to 32 inches:* silty clay loam*2Bt2 - 32 to 50 inches:* clay loam*2C - 50 to 60 inches:* loam**Properties and qualities***Slope:* 0 to 2 percent*Depth to restrictive feature:* More than 80 inches*Drainage class:* Somewhat poorly drained*Runoff class:* Low*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.60 in/hr)*Depth to water table:* About 12 to 24 inches*Frequency of flooding:* None*Frequency of ponding:* None*Calcium carbonate, maximum content:* 35 percent*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*Available water supply, 0 to 60 inches:* High (about 9.8 inches)**Interpretive groups***Land capability classification (irrigated):* None specified*Land capability classification (nonirrigated):* 1*Hydrologic Soil Group:* B/D

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Ecological site: R108XA006IL - Loess Upland Prairie, R110XY007IL - Moist
Glacial Drift Upland Prairie
Hydric soil rating: No

Minor Components**Drummer, drained**

Percent of map unit: 6 percent
Landform: Swales on till plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R108XA013IL - Wet Outwash Prairie, R110XY024IL - Pondered
Depressional Sedge Meadow
Hydric soil rating: Yes

622C2—Wyanet silt loam, 5 to 10 percent slopes, eroded**Map Unit Setting**

National map unit symbol: 2zss1
Elevation: 490 to 1,130 feet
Mean annual precipitation: 35 to 42 inches
Mean annual air temperature: 48 to 54 degrees F
Frost-free period: 150 to 185 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Wyanet, eroded, and similar soils: 93 percent
Minor components: 7 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wyanet, Eroded**Setting**

Landform: Ground moraines, end moraines
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Thin mantle of loess or other silty material over calcareous loamy
till

Typical profile

Ap - 0 to 8 inches: silt loam
Bt1 - 8 to 28 inches: clay loam
Bt2 - 28 to 35 inches: loam
C - 35 to 60 inches: loam

Properties and qualities

Slope: 5 to 10 percent

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Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 6.0
Available water supply, 0 to 60 inches: Moderate (about 7.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: R108XA006IL - Loess Upland Prairie, R110XY006IL - Dry Glacial Drift Upland Prairie
Hydric soil rating: No

Minor Components**Drummer, drained**

Percent of map unit: 5 percent
Landform: Outwash plains, till plains, stream terraces, swales
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope, tread
Down-slope shape: Linear
Across-slope shape: Linear, concave
Ecological site: R108XA013IL - Wet Outwash Prairie, R110XY024IL - Ponded Depressional Sedge Meadow, R111XD020IN - Wet Outwash Mollisol
Hydric soil rating: Yes

Sable

Percent of map unit: 1 percent
Landform: Swales
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Dip
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R108XB009IL - Ponded Loess Sedge Meadow
Hydric soil rating: Yes

Raub

Percent of map unit: 1 percent
Landform: Ground moraines, end moraines
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Interfluvium
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R108XA006IL - Loess Upland Prairie, R110XY007IL - Moist Glacial Drift Upland Prairie
Hydric soil rating: No

Custom Soil Resource Report

802B—Orthents, loamy, 1 to 7 percent slopes**Map Unit Setting**

National map unit symbol: 2ytdv
Elevation: 510 to 890 feet
Mean annual precipitation: 35 to 40 inches
Mean annual air temperature: 50 to 54 degrees F
Frost-free period: 158 to 182 days
Farmland classification: Not prime farmland

Map Unit Composition

Orthents, loamy, and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Orthents, Loamy**Setting**

Landform: Outwash plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy human-transported material

Typical profile

^A - 0 to 6 inches: loam
^C - 6 to 79 inches: clay loam

Properties and qualities

Slope: 1 to 7 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: About 40 to 72 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 20 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 6.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: R108XA013IL - Wet Outwash Prairie
Hydric soil rating: No

Custom Soil Resource Report

Minor Components**Drummer, drained**

Percent of map unit: 4 percent

Landform: Stream terraces on outwash plains, stream terraces on till plains, swales on outwash plains, swales on till plains

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Base slope, talf

Down-slope shape: Linear

Across-slope shape: Linear, concave

Ecological site: R108XA013IL - Wet Outwash Prairie, R110XY024IL - Ponded

Depressional Sedge Meadow, R111XD020IN - Wet Outwash Mollisol

Hydric soil rating: Yes

Urban land

Percent of map unit: 3 percent

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: No

Ipava

Percent of map unit: 2 percent

Landform: Ground moraines

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Talf

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R108XB008IL - Wet Loess Upland Prairie

Hydric soil rating: No

Aquents, clayey

Percent of map unit: 1 percent

Landform: Lake plains, depressions

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Talf, dip

Down-slope shape: Linear, concave

Across-slope shape: Linear, concave

Ecological site: F095XB002WI - Wet Floodplain

Hydric soil rating: Yes

References

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- American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.
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- Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.
- United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.
- United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374
- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelpdb1043084>

Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

APPENDIX 2-G

PRE-FILING AFFIDAVIT

Rantoul Village Board

In re: APPLICATION FOR LOCAL SITING	)
APPROVAL OF A POLLUTION CONTROL	)
FACILITY, RANTOUL RECYCLING AND	)
TRANSFER STATION	)
	)
Submitted by:	)
AREA DISPOSAL SERVICE, INC.	)
	)
Applicant.	)

AFFIDAVIT OF COMPLIANCE WITH 415 ILCS 5/39.2(b)

STATE OF ILLINOIS	)	
	)	ss.
COUNTY OF PEORIA	)	

Janaki Nair, having been first duly sworn upon her oath, deposes and states as follows:

1. I am counsel for Area Disposal Service, Inc. ("Area").
2. In the course of my representation of Area, I caused a written notice of Area's request for local siting approval in this matter to be prepared pursuant to 415 ILCS §5/39.2. A true and accurate copy of the written notice so prepared is attached hereto as Exhibit A. Such notice states the name and address of the applicant (Area), the location of the proposed site, the nature and size of the development, the nature of the activity proposed, the probable life of the proposed activity, the date when the request for site approval will be submitted, and a description of the right of persons to comment on such request as hereafter provided.
3. No later than fourteen (14) days before the date on which the county board or governing body of the municipality receives a request for site approval (namely, on December 1, 2025), I caused written notice of Area's request for local siting approval in this matter to be served

by certified mail, return receipt requested, on the owners of all property within the subject area not solely owned by Area, and on the owners of all property within 1,000 feet in each direction of the lot line of the subject property, said owners being such persons or entities which appear from the authentic tax records of the Champaign County.

4. I searched the authentic tax records in Champaign County, Illinois to ascertain the names and addresses of all owners of the subject property and all other property within 1,000 feet in each direction of the lot line of the subject property. I learned that Champaign County maintains the official tax records database, which can be accessed by the Champaign County Property Tax Inquiry webpage¹ via the Champaign County Assessment Office website². The Champaign County GIS website, which shows all real estate parcels in the county, also links to the Champaign County Property Tax Inquiry webpage. This is the computer equivalent of information previously available in hard copies of plat books and section maps.

5. On December 1, 2025, I also caused written notice of Area's request for local siting approval in this matter to be served by certified mail, return receipt requested, upon members of the General Assembly from the legislative district in which the proposed facility is located.

6. Attached hereto and made a part hereof as Exhibit B is the full and complete list of all individuals and entities which were sent pre-filing Notice on December 1, 2025, pursuant to 415 ILCS 5/39.2(b). This includes all owners of property and members of the General Assembly who were entitled to Notice. Some entities entitled to notice were sent an additional notice at a secondary address, as indicated on Exhibit B.

¹ <https://champaignil.devnetwedge.com/>

² <https://www.co.champaign.il.us/ccao/assessor.php>

7. Attached hereto and made a part hereof as Exhibit C are the certified mail receipts issued by the U.S. Postal Service. Attached hereto and made a part hereof as Exhibit D are the returns from the recipients (green cards) that have been received as of the morning of December 15, 2025.

8. I caused written notice of Area's request for local siting approval in this matter to be published in a newspaper of general circulation published in Champaign County, the county in which the site is located, namely, in The News-Gazette. The Affidavit of Publication is provided as Exhibit E.

9. The siting application herein is planned to be filed on December 22, 2025.

10. All of the foregoing complies fully and completely with the pre-filing notice requirements of 415 ILCS §5/39.2(b).

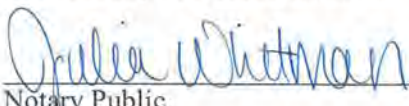
11. I am an adult and if called upon to testify in this matter, I could competently testify to the facts stated herein.

FURTHER AFFIANT SAYETH NOT.



Janaki Nair

Subscribed and sworn to before me
this 15th day of December, 2025.



Notary Public

925-0422.3

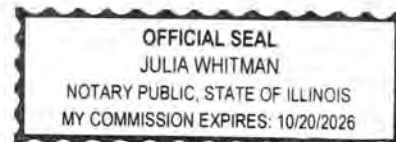


EXHIBIT A

NOTICE OF INTENT TO FILE A REQUEST FOR LOCAL SITING APPROVAL

[Attached]

NOTICE OF INTENT TO FILE A REQUEST FOR LOCAL SITING APPROVAL FOR A
POLLUTION CONTROL FACILITY WITH THE VILLAGE OF RANTOUL, ILLINOIS

Please take notice that on December 22, 2025, Area Disposal Service, Inc., will file with the Village of Rantoul, Illinois, an application for local siting approval of a pollution control facility pursuant to 415 ILCS §5/39.2.

This Notice is required to be given to:

- a. The owners of all property within the subject property not solely owned by the Applicant and on the owners of all property within five hundred (500) feet in each direction of the lot line of the subject property described below, said owners being such persons or entities which appear from the authentic tax records of Champaign County (the number of all feet occupied by all public roads, streets, alleys and other public ways have been excluded in computing the five hundred (500) feet); provided further, that in no event shall this requirement exceed 1,000 feet, including public streets, alleys and other public ways; and
- b. Each member of the General Assembly from the legislative district in which the proposed facility is to be located.

This Notice also is being published in The News-Gazette, being a newspaper of general circulation in Champaign County, Illinois.

Please note as follows:

1. Name and address of applicant:

Area Disposal Service, Inc.
4700 N. Sterling Avenue
Peoria, IL 61615

2. Location of proposed site:

The Rantoul Recycling and Transfer Station (RTS) will be located at the existing waste hauling business owned by Area Disposal Service, Inc. located northeast of Interstate 57 and West Champaign Avenue (or Route 136) in the western portion of Rantoul. The address of the site is 896 West Champaign Avenue, Rantoul, Champaign County. The site is legally described as follows:

TRACT 1:

PART OF NORTHEAST QUARTER OF SECTION OF 4, TOWNSHIP 21 NORTH,
RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, BEING MORE
PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF ESTES SUBDIVISION AS RECORDED IN PLAT BOOK "N" AT PAGE 70 IN THE OFFICE OF THE CHAMPAIGN COUNTY RECORDER OF DEEDS, THENCE SOUTH 89° 43' 17" WEST ALONG A WESTERLY EXTENSION OF THE NORTH LINE OF SAID ESTES SUBDIVISION 159.97 FEET TO THE POINT OF BEGINNING; SOUTH 00° 22' 21" WEST 384.62 FEET TO THE WESTERLY EXTENSION OF THE NORTH LINE OF LOT 24 OF PARKER-ESTES SUBDIVISION AS RECORDED IN PLAT BOOK "M" AT PAGE 99 IN THE OFFICE OF THE CHAMPAIGN COUNTY RECORDER OF DEEDS; THENCE SOUTH 89° 38' 42" WEST ALONG SAID EXTENSION 83.25 FEET; THENCE SOUTH 00° 47' 36" EAST 190.00 FEET; THENCE NORTH 89° 38' 42" EAST 101.05 FEET; THENCE SOUTH 71° 56' 59" EAST 158.49 FEET TO THE WEST LINE OF LOT 24 OF SAID PARKER-ESTES SUBDIVISION; THENCE SOUTH 00° 12' 51" EAST ALONG SAID WEST LINE 30.29 FEET TO THE NORTH RIGHT-OF-WAY LINE OF S.B.I. ROUTE 119 (U.S. ROUTE 136); THENCE NORTH 82° 55' 21" WEST ALONG SAID NORTH RIGHT-OF-WAY LINE 233.82 FEET; THENCE SOUTH 89° 48' 23" WEST ALONG SAID NORTH RIGHT-OF-WAY LINE 200.23 FEET; THENCE NORTH 84° 19' 37" WEST ALONG SAID NORTH RIGHT-OF-WAY LINE 351.49 FEET; THENCE NORTH 68° 09' 46" WEST ALONG SAID NORTH RIGHT-OF-WAY LINE 247.08 FEET; THENCE NORTH 48° 02' 34" WEST ALONG SAID NORTH RIGHT-OF-WAY LINE 262.64 FEET TO THE EAST RIGHT-OF-WAY LINE OF F.A.I. 57 (INTERSTATE 57); THENCE NORTH 30° 07' 33" WEST ALONG SAID EAST RIGHT-OF-WAY LINE 175.34 FEET; THENCE NORTH 15° 28' 10" WEST ALONG SAID EAST RIGHT-OF-WAY LINE 172.40 FEET TO THE WESTERLY EXTENSION OF THE NORTH LINE OF SAID ESTES SUBDIVISION; THENCE NORTH 89° 43' 17" EAST ALONG SAID WESTERLY EXTENSION 1171.96 FEET TO THE POINT OF BEGINNING, IN CHAMPAIGN COUNTY, ILLINOIS.

PIN 20-09-04-201-004

TRACT 2:

PART OF NORTHEAST QUARTER OF SECTION OF 4, TOWNSHIP 21 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF ESTES SUBDIVISION AS RECORDED IN PLAT BOOK "N" AT PAGE 70 IN THE OFFICE OF THE CHAMPAIGN COUNTY RECORDER OF DEEDS, THENCE SOUTH 89° 43' 17" WEST ALONG A WESTERLY EXTENSION OF THE NORTH LINE OF SAID ESTES SUBDIVISION 159.97 FEET; THENCE SOUTH 00° 22' 21" WEST 384.62 FEET TO THE WESTERLY EXTENSION OF THE NORTH LINE OF LOT 24 OF PARKER-ESTES SUBDIVISION AS RECORDED IN PLAT BOOK "M" AT PAGE 99 IN THE OFFICE OF THE CHAMPAIGN COUNTY RECORDER OF DEEDS, ALSO BEING THE POINT OF BEGINNING; THENCE SOUTH 00° 22' 21" WEST 190.01 FEET; THENCE SOUTH 89° 38' 42" WEST 79.39 FEET; THENCE NORTH 00° 47' 36" WEST 190.00 FEET TO

THE WESTERLY EXTENSION OF SAID LOT 24; THENCE NORTH 89° 38' 42" EAST ALONG SAID WESTERLY EXTENSION 83.25 FEET TO THE POINT OF BEGINNING, IN CHAMPAIGN COUNTY, ILLINOIS.

PIN 20-09-04-227-005

3. Nature and size of the development:

Recycling and transfer facility including a building, on-site roads, fencing, scale and landscape improvements on a land parcel totaling about 14.03 acres.

4. Nature of the activity proposed:

The facility would be designed to receive non-hazardous solid waste and single stream recyclables from the County of Champaign and surrounding areas. The proposed transfer station will be a state-of-the practice facility where loads of refuse from collection vehicles will be consolidated into larger loads for transport to a disposal facility. Recyclable materials will be consolidated into larger loads for transfer to a material recovery facility. The proposed Rantoul RTS will allow for more efficient processing and/or transportation of these materials, and is designed to accommodate a daily throughput of 500 tons per day.

5. Probable life of the proposed activity:

20 years

6. Date when the request for site approval will be submitted:

December 22, 2025

7. Description of the right of persons to comment on the request in writing:

The Rantoul Village Board is required to hold at least one public hearing on the request for siting approval no sooner than 90 days and no later than 120 days after receipt of the Application.

A copy of the request for site approval shall be made available for public inspection in the office of the Clerk of the Village of Rantoul and members of the public shall be allowed to obtain a copy of the request for site approval or any part thereof upon payment of the actual cost of reproduction to the Clerk of the Village of Rantoul. All copying requests shall be fulfilled by the Clerk of the Village of Rantoul within a reasonable time from the time of the request.

The Clerk of the Village of Rantoul (on behalf of the Rantoul Village Board) shall receive written comment from any person concerning the appropriateness of the proposed site. Upon receipt of any such written comment the Clerk of the Village of Rantoul shall date

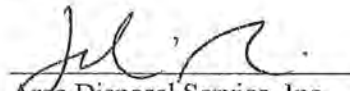
stamp same and file the written comment with the postmarked envelope in which the comment is received.

Copies of the written comments shall be made available for public inspection in the office of the Clerk of the Village of Rantoul, and members of the public shall be allowed to obtain a copy of any written comment upon payment of actual cost of reproduction.

Any written comment received by the Clerk of the Village of Rantoul or postmarked not later than thirty (30) days after the date of the last public hearing shall be made part of the record as hereinafter described and the Rantoul Village Board shall consider any such timely written comments in making its final determination. In the event that the 30th day falls on a Sunday or federal holiday, the next day on which mail is received by the Clerk of the Village of Rantoul shall be considered the 30th day for purposes of this paragraph.

This Notice is being given in accordance with the requirements of §39.2(b) of the Illinois Environmental Protection Act (415 ILCS §5/39.2(b)).

Janaki Nair
Elias, Meghinnes & Seghetti, P.C.
416 Main Street
Suite 1400
Peoria, IL 61602


Area Disposal Service, Inc.
4700 N. Sterling Avenue
Peoria, IL 61615

925-0424.2

EXHIBIT B**ADDRESSES FOR PRE-FILING NOTICES**

Ingleman, Milton Bryan,
Ingleman 2023 Family Trust
7399 Versailles Pland Road
Derby, NY 14047

Ingleman, Milton Bryan,
Ingleman 2023 Family Trust
7399 Versailles Plank Road
Derby, NY 14047

Rantoul Truck Center, LLC
892 W. Champaign Avenue
Rantoul, IL 61866-2114

Rantoul Truck Center, L.L.C.
Kyle Emkes, Registered Agent
2102 Windsor Place, Ste 1
Champaign, IL 61820-7803

Combest, Steve
350 Gibbs Drive
Rantoul, IL 61866-0000

Hepburn & Schlorff
868 W. Champaign Ave.
Rantoul, IL 61866-2114

Combest, Steven R
892 W. Champaign Ave.
Rantoul, IL 61866-2114

Shields Family Limited Partnership
PO Box 225
Rantoul, IL, 61866-0225

Shields Family Limited Partnership
c/o Paul F. Gerbosi, Former Agent
200 W. Adams St., Ste-2500
Chicago, IL 60606-5283

Shields Family Limited Partnership
2420 Brickell Ave #103B Forest
Miami, FL 33129

Shields Auto Center
 c/o Duane Shields
 850 Broadmeadow Road
 Rantoul, IL 61866-0000

MACS, Convenience Stores
 4080 W. Jonathan Moore Pike
 Columbus, IN 47201-8667

Village of Rantoul
 333 S. Tanner Street
 Rantoul, IL, 61866-0000

Oceanview Motel, LLC
 833 Corriente Point Drive
 Redwood City, CA 94065-0000

Oceanview Motel, LLC
 c/o FR Registered Agent Services, Inc.,
 Registered Agent
 10 Parkway North Boulevard, Suite 110
 Deerfield, IL 60015

Walmart Stores Inc.
 PO Box 8050
 Bentonville, AR 72712-8055

Shree Raj Hospitality, LLC
 4811 Oakdale Drive
 Champaign, IL, 61822-0000

NS Retail Holdings, LLC
 5910 N Central Expy, Ste 1600
 Dallas, TX, 75206-5173

NS Retail Holdings LLC
 2021 Mckinney Ave # 1150
 Dallas, TX, 75201-0000

NS Retail Holdings LLC
 c/o United Agent Group Inc., Registered Agent
 1320 Tower Road
 Schaumburg, IL 60173

Rantoul 57 Hospitality, LLC
 330 W. Marion Ave.
 Forsyth, IL 62535-0000

Webster, Hazel E Trust
Carl Schlensker
907 Illinois Court
Rantoul, IL 61866-0000

Lex Rantoul L.P
12400 Coit Rd., Suite 1270
Dallas, TX 75251-0000

Lex Rantoul L.P
c/o Illinois Corporation Service Company,
Registered Agent
801 Adlai Stevenson Drive
Springfield, IL 62703-4261

Warner, Joseph
1254 County Road 2700N
Rantoul, IL 61866-9725

Representative Brandun Schweizer
223-N Stratton Building
Springfield, IL 62706

Representative Brandun Schweizer
3821 N. Vermilion
Ste. 5
Danville, IL 61832

Representative Brandun Schweizer
112 E. Sangamon
Rantoul, IL 61866

Senator Paul Faraci
Stratton Office Building, 401 S. Spring
Section F, Office J
Springfield, IL 62706

Senator Paul Faraci
45 E. University Ave.
Suite 206
Champaign, IL 61820

Senator Paul Faraci
201 North Vermilion St.
Suite 323
Danville, IL 61832

925-0894

EXHIBIT C

CERTIFIED MAIL RECEIPTS ISSUED BY THE U.S. POSTAL SERVICE

7022 2410 0000 9462 4524

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Derby, NY 14047

Certified Mail Fee \$5.30

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Ingleman, Milton Bryan,
Ingleman 2023 Family Trust
7399 Versailles Pland Road
Derby, NY 14047

Postmark Here

12/01/2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4517

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Derby, NY 14047

Certified Mail Fee \$5.30

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Ingleman, Milton Bryan,
Ingleman 2023 Family Trust
7399 Versailles Plank Road
Derby, NY 14047

Postmark Here

12/01/2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4500

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Rantoul, IL 61866

Certified Mail Fee \$5.30

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Rantoul Truck Center, LLC
892 W. Champaign Avenue
Rantoul, IL 61866-2114

Postmark Here

12/01/2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4494

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Champaign, IL 61820

Certified Mail Fee \$5.30

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Rantoul Truck Center, L.L.C.
Kylé Emkes, Registered Agent
2102 Windsor Place, Ste 1
Champaign, IL 61820-7803

Postmark Here

12/01/2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4425

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com.

Rantoul, IL 61866

Certified Mail Fee \$5.30

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$6.08

Sent To: Shields Auto Center
c/o Duane Shields
850 Broadmeadow Road
Rantoul, IL 61866-0000

Postmark Here

12/01/2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4418

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com.

Columbus, IN 47201

Certified Mail Fee \$5.30

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$6.08

Sent To: MACS, Convenience Stores
4080 W. Jonathan Moore Pike
Columbus, IN 47201-8667

Postmark Here

12/01/2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4401

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com.

Rantoul, IL 61866

Certified Mail Fee \$5.30

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$6.08

Sent To: Village of Rantoul
333 S. Tanner Street
Rantoul, IL, 61866-0000

Postmark Here

12/01/2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4395

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com.

Redwood City, CA 94065

Certified Mail Fee \$5.30

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$6.08

Sent To: Oceanview Motel, LLC
833 Corriente Point Drive
Redwood City, CA 94065-0000

Postmark Here

12/01/2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4388

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com.

Deerfield, IL 60015

Certified Mail Fee \$5.30

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$6.08

Sent To: Oceanview Motel, LLC
c/o FR Registered Agent Services, Inc.,
Registered Agent
10 Parkway North Boulevard, Suite 110
Deerfield, IL 60015

Postmark Here

12/01/2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4371

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com.

Bentonville, AR 72712

Certified Mail Fee \$5.30

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$6.08

Sent To: Walmart Stores Inc.
PO Box 8050
Bentonville, AR 72712-8055

Postmark Here

12/01/2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4487

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Rantoul, IL 61866

OFFICIAL USE

Certified Mail Fee	\$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$10.48

Sent To: Combest, Steve
 350 Gibbs Drive
 Rantoul, IL 61866-0000

Street: _____
 City, St: _____

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4470

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Rantoul, IL 61866

OFFICIAL USE

Certified Mail Fee	\$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$10.48

Sent To: Hepburn & Schlorff
 4868 W. Champaign Ave.
 Rantoul, IL 61866-2114

Street: _____
 City, St: _____

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4463

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Rantoul, IL 61866

OFFICIAL USE

Certified Mail Fee	\$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$10.48

Sent To: Combest, Steven R
 892 W. Champaign Ave.
 Rantoul, IL 61866-2114

Street: _____
 City, St: _____

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4456

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Rantoul, IL 61866

OFFICIAL USE

Certified Mail Fee	\$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$10.48

Sent To: Shields Family Limited Partnership
 PO Box 225
 Rantoul, IL, 61866-0225

Street: _____
 City, St: _____

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4449

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Chicago, IL 60606

OFFICIAL USE

Certified Mail Fee	\$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$10.48

Sent To: Shields Family Limited Partnership
 c/o Paul F. Gerbosi, Former Agent
 200 W. Adams St., Ste-2500
 Chicago, IL 60606-5283

Street: _____
 City, St: _____

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4432

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Miami, FL 33129

OFFICIAL USE

Certified Mail Fee	\$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$10.48

Sent To: Shields Family Limited Partnership
 2420 Brickell Ave #103B Forest
 Miami, FL 33129

Street: _____
 City, St: _____

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4364

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.

Champaign, IL 61822

Certified Mail Fee	\$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.75
 \$ Total \$11.05
 \$ Sent To
 Str
 City

Shree Raj Hospitality, LLC
 4811 Oakdale Drive
 Champaign, IL, 61822-0000

12/01/2025

Postmark
Here

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

7022 2410 0000 9462 4357

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.

Dallas, TX 75206

Certified Mail Fee	\$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.75
 \$ Total \$10.45
 \$ Sent To
 Str
 City

NS Retail Holdings, LLC
 5910 N Central Expy, Ste 1600
 Dallas, TX, 75206-5173

12/01/2025

Postmark
Here

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

7022 2410 0000 9462 4340

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.

Dallas, TX 75201

Certified Mail Fee	\$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.75
 \$ Total \$11.05
 \$ Sent To
 Str
 City

NS Retail Holdings LLC
 2021 McKinney Ave # 1150
 Dallas, TX, 75201-0000

12/01/2025

Postmark
Here

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

7022 2410 0000 9462 4333

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.

Schaumburg, IL 60173

Certified Mail Fee	\$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.75
 \$ Total \$10.45
 \$ Sent To
 Str
 City

NS Retail Holdings LLC
 c/o United Agent Group Inc., Registered Agent
 1320 Tower Road
 Schaumburg, IL 60173

12/01/2025

Postmark
Here

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

7022 2410 0000 9462 4326

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.

Forsyth, IL 62535

Certified Mail Fee	\$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.75
 \$ Total \$11.05
 \$ Sent To
 Str
 City

Rantoul 57 Hospitality, LLC
 1330 W. Marion Ave.
 Forsyth, IL 62535-0000

12/01/2025

Postmark
Here

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

7022 2410 0000 9462 4319

**U.S. Postal Service™
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For delivery information, visit our website at www.usps.com®.

Rantoul, IL 61866

Certified Mail Fee	\$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.75
 \$ Total \$10.45
 \$ Sent To
 Str
 City

Webster, Hazel E Trust
 Carl Schlensker
 907 Illinois Court
 Rantoul, IL 61866-0000

12/01/2025

Postmark
Here

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

7022 2410 0000 9462 4302

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com.

Dallas, TX 75251

OFFICIAL USE

Certified Mail Fee \$5.30

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$10.48

Sent To Lex Rantoul L.P.
12400 Coit Rd., Suite 1270
Dallas, TX 75251-0000

Postmark Here 0802 77 12/01/2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4296

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com.

Springfield, IL 62703

OFFICIAL USE

Certified Mail Fee \$5.30

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$10.48

Sent To Lex Rantoul L.P.
c/o Illinois Corporation Service Company,
Registered Agent
801 Adlai Stevenson Drive
Springfield, IL 62703-4261

Postmark Here 0802 77 12/01/2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4289

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com.

Rantoul, IL 61866

OFFICIAL USE

Certified Mail Fee \$5.30

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$10.48

Sent To Warner, Joseph
1254 County Road 2700N
Rantoul, IL 61866-9725

Postmark Here 0802 77 12/01/2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4272

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com.

Springfield, IL 62706

OFFICIAL USE

Certified Mail Fee \$5.30

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$10.48

Sent To Representative Brandun Schweizer
223-N Stratton Building
Springfield, IL 62706

Postmark Here 0802 77 12/01/2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4265

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com.

Danville, IL 61832

OFFICIAL USE

Certified Mail Fee \$5.30

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$10.48

Sent To Representative Brandun Schweizer
3821 N. Vermilion
Ste. 5
Danville, IL 61832

Postmark Here 0802 77 12/01/2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4258

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com.

Rantoul, IL 61866

OFFICIAL USE

Certified Mail Fee \$5.30

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.78

Total \$10.48

Sent To Representative Brandun Schweizer
112 E. Sangamon
Rantoul, IL 61866

Postmark Here 0802 77 12/01/2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0000 9462 4241

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
Springfield, IL 62706	
Certified Mail Fee \$5.30	0802 77
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy) \$0.00	
☐ Return Receipt (electronic) \$0.00	
☐ Certified Mail Restricted Delivery \$0.00	
☐ Adult Signature Required \$0.00	
☐ Adult Signature Restricted Delivery \$0.00	
Postage \$0.78	
Total P \$10.08	12/01/2025
Senator Paul Faraci Stratton Office Building, 401 S. Spring Section F, Office J Springfield, IL 62706	
City, State	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

7022 2410 0000 9462 4234

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
Champaign, IL 61820	
Certified Mail Fee \$5.30	0802 77
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy) \$0.00	
☐ Return Receipt (electronic) \$0.00	
☐ Certified Mail Restricted Delivery \$0.00	
☐ Adult Signature Required \$0.00	
☐ Adult Signature Restricted Delivery \$0.00	
Postage \$0.78	
Total P \$10.08	12/01/2025
Senator Paul Faraci 45 E. University Ave. Suite 206 Champaign, IL 61820	
City, State	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

7022 2410 0000 9462 4227

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
Danville, IL 61832	
Certified Mail Fee \$5.30	0802 77
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy) \$0.00	
☐ Return Receipt (electronic) \$0.00	
☐ Certified Mail Restricted Delivery \$0.00	
☐ Adult Signature Required \$0.00	
☐ Adult Signature Restricted Delivery \$0.00	
Postage \$0.78	
Total P \$10.08	12/01/2025
Senator Paul Faraci 201 North Vermilion St. Suite 323 Danville, IL 61832	
City, State	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

EXHIBIT D

GREEN CARDS RECEIVED

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Ingleman, Milton Bryan, Ingleman 2023 Family Trust 7399 Versailles Pland Road Derby, NY 14047 2. Article Number (Transfer from service label) 7022 2410 0000 9462 4524	A. Signature X <i>Milton Ingleman</i> ☐ Agent ☒ Addressee B. Received by (Printed Name) C. Date of Delivery 12/15 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☒ No 3. Service Type ☐ Priority Mail Express® ☐ Adult Signature ☐ Registered Mail™ ☐ Adult Signature Restricted Delivery ☐ Registered Mail Restricted Delivery ☒ Certified Mail® ☐ Signature Confirmation™ ☐ Certified Mail Restricted Delivery ☐ Signature Confirmation Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Insured Mail Restricted Delivery (over \$500)

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Ingleman, Milton Bryan, Ingleman 2023 Family Trust 7399 Versailles Plank Road Derby, NY 14047 2. Article Number (Transfer from service label) 7022 2410 0000 9462 4517	A. Signature X <i>Milton Ingleman</i> ☐ Agent ☒ Addressee B. Received by (Printed Name) C. Date of Delivery 12/15 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☒ No 3. Service Type ☐ Priority Mail Express® ☐ Adult Signature ☐ Registered Mail™ ☐ Adult Signature Restricted Delivery ☐ Registered Mail Restricted Delivery ☒ Certified Mail® ☐ Signature Confirmation™ ☐ Certified Mail Restricted Delivery ☐ Signature Confirmation Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Insured Mail Restricted Delivery (over \$500)

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature ☒ <i>[Signature]</i> ☒ Agent ☐ Addressee	
1. Article Addressed to: Rantoul Truck Center, LLC 892 W. Champaign Avenue Rantoul, IL 61866-2114		B. Received by (Printed Name) <i>Sasha Johnson</i> C. Date of Delivery <i>12/4/25</i>	
2. Article Number (Transfer from service label) 7022 2410 0000 9462 4500		D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☒ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Registered Mail Restricted Delivery (over \$500)		☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery	
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt			

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature ☒ <i>Lauryn Hancock</i> ☒ Agent ☐ Addressee	
1. Article Addressed to: Rantoul Truck Center, L.L.C. Kyle Emkes, Registered Agent 2102 Windsor Place, Ste 1 Champaign, IL 61820-7803		B. Received by (Printed Name) <i>Lauryn Hancock</i> C. Date of Delivery <i>4 Dec 2025</i>	
2. Article Number (Transfer from service label) 7022 2410 0000 9462 4494		D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☒ No	
3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☒ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Registered Mail Restricted Delivery (over \$500)		☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery	
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt			

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature ☒ <i>[Signature]</i> ☒ Agent ☐ Addressee	
1. Article Addressed to: Combest, Steve 350 Gibbs Drive Rantoul, IL 61866-0000		B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery <i>12/4/25</i>	
2. Article Number (Transfer from service label) 7022 2410 0000 9462 4487		D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☒ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Registered Mail Restricted Delivery (over \$500)		☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery	
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt			

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
- Complete items 1, 2, and 3. - Print your name and address on the reverse so that we can return the card to you. - Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature ☒ Agent ☐ Addressee
1. Article Addressed to: Combest, Steven R 892 W. Champaign Ave. Rantoul, IL 61866-2114	B. Received by (Printed Name) Joshua Johnson C. Date of Delivery 12/4/25
2. Article Number (Transfer from service label) 7022 2410 0000 9462 4463	D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
9590 9402 7809 2152 0164 89	3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☒ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
- Complete items 1, 2, and 3. - Print your name and address on the reverse so that we can return the card to you. - Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature ☒ Agent ☐ Addressee
1. Article Addressed to: Shields Family Limited Partnership PO Box 225 Rantoul, IL, 61866-0225	B. Received by (Printed Name) C. Date of Delivery 12-8-25
2. Article Number (Transfer from service label) 7022 2410 0000 9462 4456	D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
9590 9402 7809 2152 0164 96	3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☒ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery
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- Complete items 1, 2, and 3. - Print your name and address on the reverse so that we can return the card to you. - Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature ☒ Agent ☐ Addressee
1. Article Addressed to: Shields Auto Center c/o Duane Shields 50 Broadmeadow Road Rantoul, IL 61866-0000	B. Received by (Printed Name) C. Date of Delivery 12/4/25
2. Article Number (Transfer from service label) 7022 2410 0000 9462 4425	D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
9590 9402 7809 2152 0162 50	3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☒ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
- Complete items 1, 2, and 3. - Print your name and address on the reverse so that we can return the card to you. - Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature ☒ <i>Noelle</i> ☐ Agent ☐ Addressee B. Received by (Printed Name) <i>Noelle</i> C. Date of Delivery D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
1. Article Addressed to: MACS, Convenience Stores 4080 W. Jonathan Moore Pike Columbus, IN 47201-8667	
 9590 9402 7809 2152 0162 67	3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☒ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Insured Mail Restricted Delivery (over \$500) ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery
2. Article Number (Transfer from service label) 7022 2410 0000 9462 4418	
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
- Complete items 1, 2, and 3. - Print your name and address on the reverse so that we can return the card to you. - Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature ☒ <i>Jay Priest</i> ☐ Agent ☐ Addressee B. Received by (Printed Name) <i>Jay Priest</i> C. Date of Delivery <i>12/5</i> D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
1. Article Addressed to: Oceanview Motel, LLC 833 Corriente Point Drive Redwood City, CA 94065-0000	
 9590 9402 7809 2152 0162 81	3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☒ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Insured Mail Restricted Delivery (over \$500) ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery
2. Article Number (Transfer from service label) 7022 2410 0000 9462 4395	
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
- Complete items 1, 2, and 3. - Print your name and address on the reverse so that we can return the card to you. - Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature ☒ <i>Taylor Troup</i> ☐ Agent ☐ Addressee B. Received by (Printed Name) <i>Taylor Troup</i> C. Date of Delivery <i>12/5/25</i> D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
1. Article Addressed to: NS Retail Holdings, LLC 5910 N Central Expy, Ste 1600 Dallas, TX, 75206-5173	
 9590 9402 7809 2152 0163 28	3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☒ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Insured Mail Restricted Delivery (over \$500) ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery
2. Article Number (Transfer from service label) 7022 2410 0000 9462 4357	
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
- Complete items 1, 2, and 3. - Print your name and address on the reverse so that we can return the card to you. - Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature ☒ <i>Tina Perryman</i> ☐ Agent ☐ Addressee B. Received by (Printed Name) <i>Tina Perryman</i> C. Date of Delivery <i>12/15</i> D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
1. Article Addressed to: Rantoul 57 Hospitality, LLC 330 W. Marion Ave. Forsyth, IL 62535-0000	
 9590 9402 7809 2152 0163 59	3. Service Type ☐ Adult Signature ☐ Priority Mail Express® ☐ Adult Signature Restricted Delivery ☐ Registered Mail™ ☒ Certified Mail® ☐ Registered Mail Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Collect on Delivery ☐ Signature Confirmation Restricted Delivery ☐ Collect on Delivery Restricted Delivery ☐ Registered Mail Restricted Delivery (over \$500)
2. Article Number (Transfer from service label) 7022 2410 0000 9462 4326	
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
- Complete items 1, 2, and 3. - Print your name and address on the reverse so that we can return the card to you. - Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature ☒ <i>Carl Schlensker</i> ☐ Agent ☐ Addressee B. Received by (Printed Name) C. Date of Delivery D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
1. Article Addressed to: Webster, Hazel E Trust Carl Schlensker 907 Illinois Court Rantoul, IL 61866-0000	
 9590 9402 7809 2152 0163 66	3. Service Type ☐ Adult Signature ☐ Priority Mail Express® ☐ Adult Signature Restricted Delivery ☐ Registered Mail™ ☒ Certified Mail® ☐ Registered Mail Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Collect on Delivery ☐ Signature Confirmation Restricted Delivery ☐ Collect on Delivery Restricted Delivery ☐ Registered Mail Restricted Delivery (over \$500)
2. Article Number (Transfer from service label) 7022 2410 0000 9462 4319	
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
- Complete items 1, 2, and 3. - Print your name and address on the reverse so that we can return the card to you. - Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature ☒ <i>Matt Dierking</i> ☐ Agent ☐ Addressee B. Received by (Printed Name) <i>Matt Dierking</i> C. Date of Delivery <i>DEC 05 2023</i> D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
1. Article Addressed to: Lex Rantoul L.P. c/o Illinois Corporation Service Company, Registered Agent 801 Adlai Stevenson Drive Springfield, IL 62703-4261	
 9590 9402 7809 2152 0163 80	3. Service Type ☐ Adult Signature ☐ Priority Mail Express® ☐ Adult Signature Restricted Delivery ☐ Registered Mail™ ☒ Certified Mail® ☐ Registered Mail Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Collect on Delivery ☐ Signature Confirmation Restricted Delivery ☐ Collect on Delivery Restricted Delivery ☐ Registered Mail Restricted Delivery (over \$500)
2. Article Number (Transfer from service label) 7022 2410 0000 9462 4296	
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt	

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Representative Brandun Schweizer
223-N Stratton Building
Springfield, IL 62706



9590 9402 7809 2152 0164 03

2. Article Number (Transfer from service label)

7022 2410 0000 9462 4272

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Melinda Beckley*☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☐ Adult Signature☐ Adult Signature Restricted Delivery☒ Certified Mail®☐ Certified Mail Restricted Delivery☐ Collect on Delivery☐ Collect on Delivery Restricted Delivery☐ Insured Mail☐ Insured Mail Restricted Delivery

(over \$500)

☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Signature Confirmation™☐ Signature Confirmation

Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Representative Brandun Schweizer
3821 N. Vermilion
Ste. 5
Danville, IL 61832



9590 9402 7809 2152 0164 10

2. Article Number (Transfer from service label)

7022 2410 0000 9462 4265

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Brandun Schweizer*☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

12-4-25

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☐ Adult Signature☐ Adult Signature Restricted Delivery☒ Certified Mail®☐ Certified Mail Restricted Delivery☐ Collect on Delivery☐ Collect on Delivery Restricted Delivery☐ Insured Mail☐ Insured Mail Restricted Delivery

(over \$500)

☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Signature Confirmation™☐ Signature Confirmation

Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Senator Paul Faraci
45 E. University Ave.
Suite 206
Champaign, IL 61820



9590 9402 7809 2152 0162 36

2. Article Number (Transfer from service label)

7022 2410 0000 9462 4234

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Paul Faraci*☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

12-5-6

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☐ Adult Signature☐ Adult Signature Restricted Delivery☒ Certified Mail®☐ Certified Mail Restricted Delivery☐ Collect on Delivery☐ Collect on Delivery Restricted Delivery☐ Insured Mail☐ Insured Mail Restricted Delivery

(over \$500)

☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Signature Confirmation™☐ Signature Confirmation

Restricted Delivery

Domestic Return Receipt

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■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature X <u>Cassy Carter</u> ☐ Agent ☒ Addressee																	
1. Article Addressed to: Senator Paul Faraci 201 North Vermilion St. Suite 323 Danville, IL 61832		B. Received by (Printed Name) <u>Cassy Carter</u> C. Date of Delivery <u>12-4-25</u>																	
2. Article Number (Transfer from service label) 7022 2410 0000 9462 4227		D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No																	
9590 9402 7809 2152 0162 43		3. Service Type <table border="0"> <tr> <td>☐ Adult Signature</td> <td>☐ Priority Mail Express®</td> </tr> <tr> <td>☐ Adult Signature Restricted Delivery</td> <td>☐ Registered Mail™</td> </tr> <tr> <td>☒ Certified Mail®</td> <td>☐ Registered Mail Restricted Delivery</td> </tr> <tr> <td>☐ Certified Mail Restricted Delivery</td> <td>☐ Signature Confirmation™</td> </tr> <tr> <td>☐ Collect on Delivery</td> <td>☐ Signature Confirmation Restricted Delivery</td> </tr> <tr> <td>☐ Collect on Delivery Restricted Delivery</td> <td></td> </tr> <tr> <td>☐ Insured Mail</td> <td></td> </tr> <tr> <td>☐ Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>		☐ Adult Signature	☐ Priority Mail Express®	☐ Adult Signature Restricted Delivery	☐ Registered Mail™	☒ Certified Mail®	☐ Registered Mail Restricted Delivery	☐ Certified Mail Restricted Delivery	☐ Signature Confirmation™	☐ Collect on Delivery	☐ Signature Confirmation Restricted Delivery	☐ Collect on Delivery Restricted Delivery		☐ Insured Mail		☐ Insured Mail Restricted Delivery (over \$500)	
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☐ Insured Mail Restricted Delivery (over \$500)																			
PS Form 3811, July 2020 PSN 7530-02-000-9053		Domestic Return Receipt																	

EXHIBIT E

AFFIDAVIT OF PUBLICATION

[Attached]

AFFP
NOTICE OF INTENT TO FILE A REQ

Affidavit of Publication

STATE OF ILLINOIS }
COUNTY OF CHAMPAIGN } SS

Paul Barrett, being duly sworn, says:

That he is Publisher of the News-Gazette, a daily newspaper of general circulation, printed and published in Champaign, Champaign County, Illinois; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

December 04, 2025

NOTICE OF INTENT TO FILE A REQUEST FOR LOCAL SITING
APPROVAL FOR A
POLLUTION CONTROL FACILITY WITH THE
VILLAGE OF RANTOUL, ILLINOIS

Please take notice that on December 22, 2025, Area Disposal Service, Inc., will file with the Village of Rantoul, Illinois, an application for local siting approval of a pollution control facility pursuant to 415 ILCS §5/39.2.

This Notice is required to be given to:

a. The owners of all property within the subject property not solely owned by the Applicant and on the owners of all property within five hundred (500) feet in each direction of the lot line of the subject property described below, said owners being such persons or entities which appear from the authentic tax records of Champaign County (the number of all feet occupied by all public roads, streets, alleys and other public ways have been excluded in computing the five hundred (500) feet); provided further, that in no event shall this requirement exceed 1,000 feet, including public streets, alleys and other public ways; and

b. Each member of the General Assembly from the legislative district in which the proposed facility is to be located.

This Notice also is being published in The News-Gazette, being a newspaper of general circulation in Champaign County, Illinois.

Please note as follows:

1. Name and address of applicant:

Area Disposal Service, Inc.
4700 N. Sterling Avenue
Peoria, IL 61615

2. Location of proposed site:

The Rantoul Recycling and Transfer Station (RTS) will be located at the existing waste hauling business owned by Area Disposal Service, Inc. located northeast of Interstate 57 and West Champaign Avenue (or Route 136) in the western portion of Rantoul. The address of the site is 896 West Champaign Avenue, Rantoul, Champaign County. The site is legally described as follows:

TRACT 1:
PART OF NORTHEAST QUARTER OF SECTION OF 4, TOWNSHIP 21 NORTH,
RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, BEING MORE
PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF ESTES SUBDIVISION AS RECORDED IN PLAT BOOK "N" AT PAGE 70 IN THE OFFICE OF THE CHAMPAIGN COUNTY RECORDER OF DEEDS, THENCE SOUTH 89° 43' 17" WEST ALONG A WESTERLY EXTENSION OF THE NORTH LINE OF SAID ESTES SUBDIVISION 159.97 FEET TO THE POINT OF BEGINNING; SOUTH 00° 22' 21" WEST 384.62 FEET TO THE WESTERLY EXTENSION OF THE NORTH LINE OF LOT 24 OF PARKER-ESTES SUBDIVISION AS RECORDED IN PLAT BOOK "M" AT PAGE 99 IN THE OFFICE OF THE CHAMPAIGN COUNTY RECORDER OF DEEDS; THENCE SOUTH 89° 38' 42" WEST ALONG SAID EXTENSION 83.25 FEET; THENCE SOUTH 00° 47' 36" EAST 190.00 FEET; THENCE NORTH 89° 38' 42" EAST 101.05 FEET; THENCE SOUTH 71° 56' 59" EAST 158.49 FEET TO THE WEST LINE OF LOT 24 OF SAID PARKER-ESTES SUBDIVISION; THENCE SOUTH 00° 12' 51" EAST ALONG SAID WEST LINE 30.29 FEET TO THE NORTH RIGHT-OF-WAY LINE OF S.B.I. ROUTE 119 (U.S. ROUTE 136); THENCE NORTH 82° 55' 21" WEST ALONG SAID NORTH RIGHT-OF-WAY LINE 233.82 FEET; THENCE SOUTH 89° 48' 23" WEST ALONG SAID



, Authorized Agent, Champaign County, Illinois

99258285 01178071

Elias, Meginnes & Seghetti, P.C.
416 Main St., Suite 1400
Peoria, IL 61602

NORTH RIGHT-OF-WAY LINE 200.23 FEET; THENCE NORTH 84° 19' 37" WEST ALONG SAID NORTH RIGHT-OF-WAY LINE 351.49 FEET; THENCE NORTH 68° 09' 46" WEST ALONG SAID NORTH RIGHT-OF-WAY LINE 247.08 FEET; THENCE NORTH 48° 02' 34" WEST ALONG SAID NORTH RIGHT-OF-WAY LINE 262.64 FEET TO THE EAST RIGHT-OF-WAY LINE OF F.A.I. 57 (INTERSTATE 57); THENCE NORTH 30° 07' 33" WEST ALONG SAID EAST RIGHT-OF-WAY LINE 175.34 FEET; THENCE NORTH 15° 28' 10" WEST ALONG SAID EAST RIGHT-OF-WAY LINE 172.40 FEET TO THE WESTERLY EXTENSION OF THE NORTH LINE OF SAID ESTES SUBDIVISION; THENCE NORTH 89° 43' 17" EAST ALONG SAID WESTERLY EXTENSION 1171.96 FEET TO THE POINT OF BEGINNING, IN CHAMPAIGN COUNTY, ILLINOIS.

PIN 20-09-04-201-004

TRACT 2:

PART OF NORTHEAST QUARTER OF SECTION OF 4, TOWNSHIP 21 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF ESTES SUBDIVISION AS RECORDED IN PLAT BOOK "N" AT PAGE 70 IN THE OFFICE OF THE CHAMPAIGN COUNTY RECORDER OF DEEDS, THENCE SOUTH 89° 43' 17" WEST ALONG A WESTERLY EXTENSION OF THE NORTH LINE OF SAID ESTES SUBDIVISION 159.97 FEET; THENCE SOUTH 00° 22' 21" WEST 384.62 FEET TO THE WESTERLY EXTENSION OF THE NORTH LINE OF LOT 24 OF PARKER-ESTES SUBDIVISION AS RECORDED IN PLAT BOOK "M" AT PAGE 99 IN THE OFFICE OF THE CHAMPAIGN COUNTY RECORDER OF DEEDS, ALSO BEING THE POINT OF BEGINNING; THENCE SOUTH 00° 22' 21" WEST 190.01 FEET; THENCE SOUTH 89° 38' 42" WEST 79.39 FEET; THENCE NORTH 00° 47' 36" WEST 190.00 FEET TO THE WESTERLY EXTENSION OF SAID LOT 24; THENCE NORTH 89° 38' 42" EAST ALONG SAID WESTERLY EXTENSION 83.25 FEET TO THE POINT OF BEGINNING, IN CHAMPAIGN COUNTY, ILLINOIS.

PIN 20-09-04-227-005

3. Nature and size of the development:

Recycling and transfer facility including a building, on-site roads, fencing, scale and landscape improvements on a land parcel totaling about 14.03 acres.

4. Nature of the activity proposed:

The facility would be designed to receive non-hazardous solid waste and single stream recyclables from the County of Champaign and surrounding areas. The proposed transfer station will be a state-of-the practice facility where loads of refuse from collection vehicles will be consolidated into larger loads for transport to a disposal facility. Recyclable materials will be consolidated into larger loads for transfer to a material recovery facility. The proposed Rantoul RTS will allow for more efficient processing and/or transportation of these materials, and is designed to accommodate a daily throughput of 500 tons per day.

5. Probable life of the proposed activity:

20 years

6. Date when the request for site approval will be submitted:

December 22, 2025

7. Description of the right of persons to comment on the request in writing:

The Rantoul Village Board is required to hold at least one public hearing on the request for siting approval no sooner than 90 days and no later than 120 days after receipt of the Application.

A copy of the request for site approval shall be made available for public inspection in the office of the Clerk of the Village of Rantoul and members of the public shall be allowed to obtain a copy of the request for site approval or any part thereof upon payment of the actual cost of reproduction to the Clerk of the Village of Rantoul. All copying requests shall be fulfilled by the Clerk of the Village of Rantoul within a reasonable time from the time of the request.

The Clerk of the Village of Rantoul (on behalf of the Rantoul Village Board) shall receive written comment from any person concerning the appropriateness of the

proposed site. Upon receipt of any such written comment the Clerk of the Village of Rantoul shall date stamp same and file the written comment with the postmarked envelope in which the comment is received.

Copies of the written comments shall be made available for public inspection in the office of the Clerk of the Village of Rantoul, and members of the public shall be allowed to obtain a copy of any written comment upon payment of actual cost of reproduction.

Any written comment received by the Clerk of the Village of Rantoul or postmarked not later than thirty (30) days after the date of the last public hearing shall be made part of the record as hereinafter described and the Rantoul Village Board shall consider any such timely written comments in making its final determination. In the event that the 30th day falls on a Sunday or federal holiday, the next day on which mail is received by the Clerk of the Village of Rantoul shall be considered the 30th day for purposes of this paragraph.

This Notice is being given in accordance with the requirements of §39.2(b) of the Illinois Environmental Protection Act (415 ILCS §5/39.2(b)).

Janaki Nair
Elias, Meghinnes &
Seghetti, P.C.
416 Main Street Suite 1400 Peoria, IL 61602

Area Disposal
4700 N. Sterling Ave.,
Peoria, IL 61615

925-0424.2

1178071 12/4

CRITERION 3:

“the facility is located so as to minimize incompatibility with the character of the surrounding area and to minimize the effect on the value of the surrounding property”

415 ILCS 5/39.2(a)(iii)

**LAND USE AND PLANNING ANALYSIS
(PREPARED BY THE LANNERT GROUP, INC.)**

Civil & Environmental Consultants, Inc.

Land Use and Planning Analysis

Rantoul Recycling and Transfer Station

Project No. 2406

Prepared For:

Area Disposal Service, Inc.
896 West Champaign Ave.
Rantoul, IL 61866

Prepared By:

The Lannert Group, Inc.
215 Fulton Street
Geneva, IL 60134

December, 2025

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1. Executive Summary

The Illinois Environmental Protection Act ("Act"), 415 ILCS 5/1, *et seq.*, contains requirements for local siting approval of new pollution control facilities. Section 39.2(a) of the Act provides nine criteria that must be satisfied as part of the local siting approval process. Criterion 3, at Section 39.2(a)(3) of the Act, requires the applicant to demonstrate that the proposed Rantoul Recycling and Transfer Station:

"is located so as to minimize incompatibility with the character of the surrounding area and to minimize the effect on the value of surrounding property."

The Lannert Group, Inc. (TLG) was retained by Area Disposal Services, Inc. (Area Disposal) through its engineers, Civil & Environmental Consultants, Inc. (CEC), to undertake an independent analysis to determine if the proposed Rantoul Recycling and Transfer Station (Subject Site) is located so as to minimize incompatibility with the character of the surrounding area, and therefore, satisfies the first part of Criterion 3. The benchmark for Criterion 3 is to demonstrate that the impact is minimized within the context and relationship to the established character of the area. TLG was also asked to prepare a Landscape Plan for the Subject Site. Based on its analysis, TLG has determined that this facility is so located as to minimize the incompatibility with the character of the surrounding area, based upon the following findings:

Findings

- The Subject Site is located in a C-2 Commercial district within the Village of Rantoul.
- The character of the immediate area surrounding the site has been defined by commercial and other businesses uses that have been established over the past years. The proposed transfer station development will blend with this existing land use pattern.
- The major land use in the area continues to be Agriculture within the County and the City.
- The Route 136 corridor (W. Champaign Ave.) is an appropriate land use buffer along the south property line, and mirrors adjacent uses.
- Agricultural, Commercial/Office, and Industrial/Manufacturing uses are compatible uses comprising 82.5% of the land in the focused study area, and 84.1% of the land in the wider study area, exceeding the requirements of the Siting Ordinance (2,500 feet).
- No residential zoned or used property is located within the 1,000' setback requirement of 415 ILCS 22.14.
- Residential uses account for approximately 7.3% of the Wider Study Area and occur to the southeast within established neighborhood areas, removed from any major impact of the proposed transfer station site.
- The proposed transfer station development will be screened by plantings along the roadway frontages, west and south, and by berms and plantings along the north.

Based on our analysis and findings, it is the opinion of the Lannert Group, Inc., that the Rantoul Recycling and Transfer Station, as proposed, is so located as to minimize the incompatibility with the character of the surrounding area and satisfies the relevant requirements of 415 ILCS 5/39.2(a)(3).

2. Introduction and Methodology

The Lannert Group, Inc. was retained to perform an independent analysis to determine if the proposed Subject Site satisfies the requirements of the first part of Criterion 3 of Section 39.2(a) of the Act, such that the Subject Site is located so as to minimize incompatibility with the character of the surrounding area.

Methodology

This study concentrates on general land use issues and is not intended to encompass the operational or engineering issues associated with the proposed Subject Site.

The Village Siting Ordinance stipulates the evaluation of a study area within 2,500 feet of the site (Focused Study Area). Land Use and Zoning Exhibits specifically demonstrate the 2,500 foot study area. In order to more precisely evaluate and measure the area of the Focused Study Area, it was determined to be contained within the area described as follows:

- North Boundary – Canadian National Spur Railroad Line
- West Boundary – 1300 E
- South Boundary – An east/west line along the top property line of the Rantoul Family Sports Complex; from west to east
- East Boundary – North East Street; north/south

The Study Area contains approximately 907.5 acres reflecting the intent of the ordinance (Focused Study Area).

In addition to the Focused Study Area and the adjacency of Champaign County properties, a Wider Study Area was evaluated to determine if additional impacts occur. The Wider Study Area, of approximately one mile, is described as follows:

- North Boundary – 3100 N
- West Boundary – 1300E
- South Boundary – 2900N (approximate south property line of the Rantoul Family Sports Complex)
- East Boundary – W. Liberty Avenue and the Canadian Central Railroad south of W. Champaign Avenue and Penfield Road extended on the north.

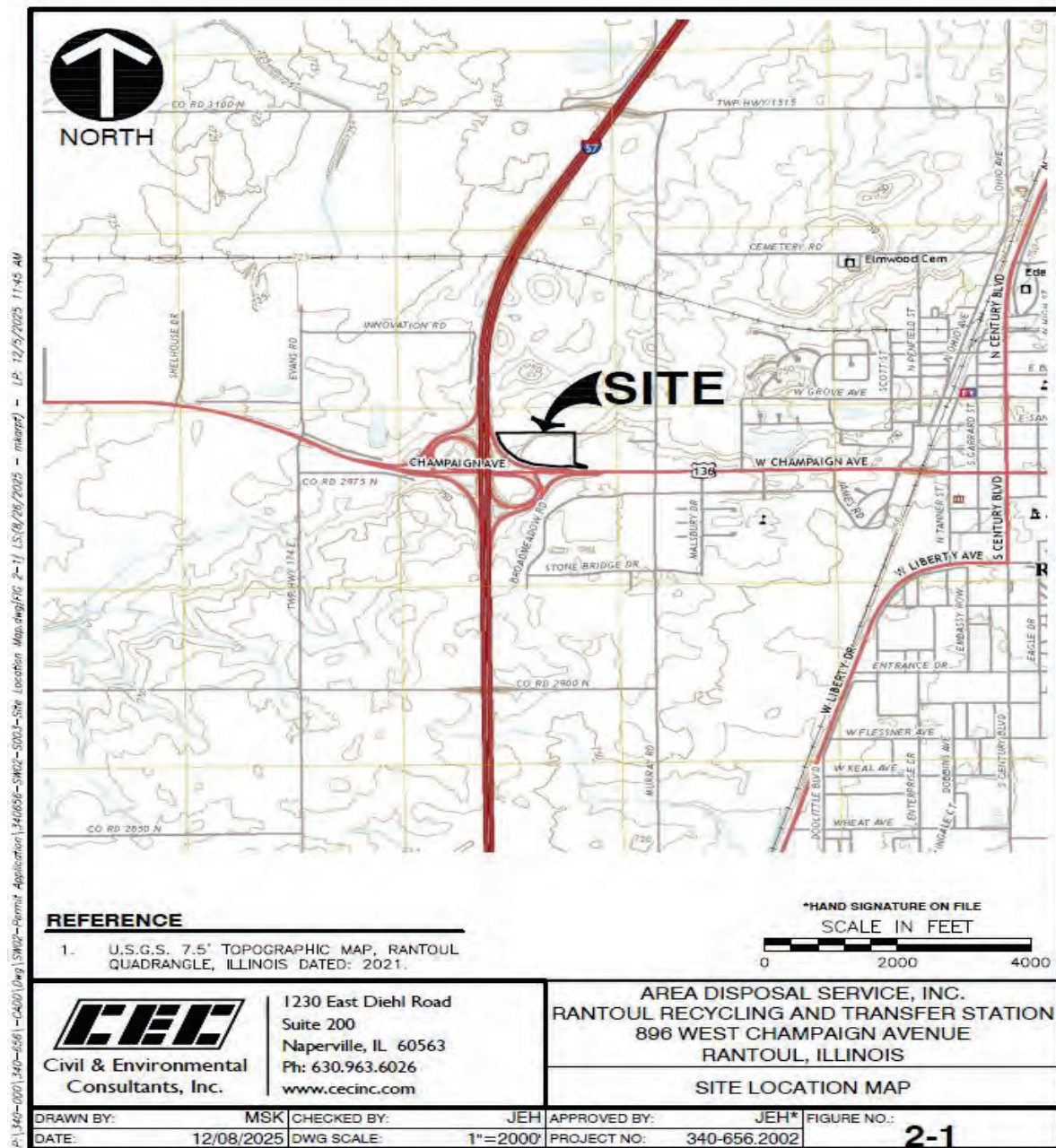
This study area contains approximately 3,642.2 acres of additional property in the Village and County.

Location, Background and Proposed Activity

The Subject Site is specifically located on the northeast quadrant of Interstate 57 and Route 136 (W. Champaign Ave.) in the Village of Rantoul. The documents and research materials supporting the work of TLG include Aerial Photography, Zoning Ordinance & Map, and the Comprehensive Plan of the Village of Rantoul. Additionally, the Champaign County Zoning Map and GIS information were also incorporated. TLG conducted field investigations and took photographs of the Subject Site and its environs to confirm land uses and become familiarized with the site and surrounding area. A detailed site investigation was performed within the context of the focused neighborhood adjacent to the proposed site.

The proposed Subject Site is located within the municipal limits of the Village of Rantoul in a C-2 Commercial Zoning District.

The overall property consists of approximately 14 acres. The proposed Facility will consist of the transfer building, which includes a tipping floor and transfer trailer loading bay, scale house, staff and employee parking, a transfer trailer queuing area, and landscape features. The existing building, with associated office space, will remain and function as Area Disposal's waste hauling maintenance building and office. Access will enter from a service road into the Subject Site. The Facility will generally operate Monday through Saturday. The Facility will typically transfer less than 500 tons per day. The proposed transfer site will accept non-hazardous municipal solid waste and recyclables, as approved by the Illinois Environmental Protection Agency. Waste materials banned by the Illinois Environmental Protection Act will not be accepted. All transfer of municipal solid waste will take place inside the building.



Subject Site Location Map

3. Existing Surrounding Land Use

The purpose of this section is to analyze and evaluate the compatibility of the existing land uses within the Focused and Wider Study Areas of the Subject Site. In general, the study area boundary, as described above (Section 2) and shown on Exhibit 1, is the basis for the analysis. Criterion 3 requires an analysis of the “character of the surrounding area” (see 415 ILCS 5/39.2(a)(3)). The term “character” denotes the broad general nature and attributes of each type of land use. Each land use has its own unique characteristics that are readily distinguishable from one another. There are several forms of land use that are suited for serving as buffers or transitions between uses of different intensities. The most common forms of land use utilized for buffering or transitional purposes include open space, agriculture, natural features and man-made facilities, such as roads, railroads, and buildings of similar uses, or intervening development.

The character of the study areas is consistent. Both the Focused and Wider Study Areas share the transportation features (Interstate, Illinois Highway, and railroad) that are necessary for development. Existing industrial uses and agricultural land within the Village and County have established this pattern. These development concepts are reflected in the plans and ordinances of the Village.

Exhibit 1, (*Land Use Aerial*) graphically shows the land use patterns of the Village and County within the study areas. This exhibit was prepared using an aerial photo and referencing zoning maps. It was verified by a vehicle drive around of the areas. The predominant land uses are shown in color. The land use patterns that are developed within the study areas tend to be homogenous by group. Historically, the growth of towns and villages grouped similar uses together. Property by property development resulted as a by-product. The color-coded Land Use Plan visually displays this development pattern.

As a further analysis of the existing character, land use ratios were calculated to quantify uses within the study areas. Development within the study areas was defined by a general use category, such as agricultural, open space, residential, industrial/manufacturing, commercial, and office. Each use was then measured in terms of area (in acres) and percentages of the whole study area were calculated to determine which land use is the most significant within the study areas. The results are as follows:

Land Use Ratios

<u>Use</u>	FOCUSED		WIDER	
	<u>Acres</u>	<u>Percentage</u>	<u>Acres</u>	<u>Percentage</u>
Agricultural (Parks, Open Space, vacant)	588.8	64.9	2704.9	74.3
Residential	42.7	4.7	264.7	7.3
Commercial/Office	81.1	8.9	84.3	2.3
Industrial/Manufacturing	79.2	8.7	271.5	7.5
Public/School/Church	3.1	0.3	109.7	3.0
Transportation/R.O.W.	112.7	12.4	207.1	5.7
Total	907.5	100%	3642.2	100%

Agricultural, Commercial/Office, and Industrial/Manufacturing uses are compatible uses comprising 82.5% of the land in the focused study area, and 84.1% of the land in the wider study area. As shown on the Land Use Aerial (Exhibit 1), these combined uses are mostly located along the major roadways in the area. Residential uses comprise 4.7% of the land in the focused

study area, and 7.3% of the land in the wider study area. A unified and adjacent development pattern is depicted, resulting from the goals and policies of the Village.

Findings:

- The character of the surrounding area is defined by Agricultural, Commercial/Office, and Industrial/Manufacturing, consisting of approximately 84.1% in the wider study area. Agriculture uses are reflective of the lands zoned within the County and the Village. The proposed transfer station development will not impact this existing land use feature.
- The existing farming on the north, and the existing industrial uses west and northwest of the site, serve as indicators of the existing recent development trends.
- Residential uses within the study areas occur within historically established neighborhood areas and are removed from the impact of the proposed Facility.
- The Route 136 (W. Champaign Ave.) corridor, and the Interstate 57 rights-of-ways and plantings, are appropriate land use buffers that transition on the west and north into the surrounding undeveloped areas.

4. Site Photographs

Site photographs were taken to illustrate the character of the area. Exhibits 2 and 3 (*Off -Site Views*), show multiple photographs with descriptions, and a photograph location map. These pictures represent the character of the adjacent area, on-site conditions, and depict the context of the existing character established in the area. The photographs demonstrate that the proposed Transfer Station Building minimizes any character of incompatibility.

Photographs were taken to evaluate the context of the area. Views 1 through 14 show the character of the area and were taken counterclockwise from the site, on public roadways. All of the photographs demonstrate that the impact is minimized within the context of the area.

View 1

This view is looking south along Interstate 57, ½ mile north of the Rantoul Exit 250, illustrating the successful manufacturing, industrial development to the west.

View 2

This view is from W. Champaign Avenue looking east, adjacent to the eastbound off-ramp. The topography in the area and Interstate bridge obscure view to the site.

View 3

This view is looking southeast along the east access ramp to Interstate 57. The Holiday Inn Express and the sports complex lighting is visible.

View 4

This view is from the Holiday Inn Express parking lot looking north. The foreground and midground remain vacant with the Ford Dealership sign/building, mature vegetation, and the Interstate signage shown on the horizon.

View 5

This view is from the parking lot of the auto dealership, looking northwest towards the proposed Facility. Distance, roadways, and existing vegetation filter views to the Site.

View 6

This view is from Evans Road looking west. The power lines and the hotel on Murry Road are shown and block the Site from this vantage point.

View 7

This view is from the intersection of Cemetery Road and County Road 1500N, looking southwest. The agriculture land is depicted with the hedgerow plantings, grading, and Ford signage shown on the horizon.

View 8

This view is from County Road 1500 adjacent to the existing homestead, looking southwest. The surrounding agriculture land is depicted. On the horizon, the higher elevation, mature vegetation, and existing buildings along W. Champaign Avenue are seen.

View 9

This view is from County Road 1500 at the corporate limit line. The new utility easement construction is seen in the midground, and the commercial uses along W. Champaign Avenue are shown in the background.

View 10

This view is looking south down Murry Road to the intersection with West Champaign Avenue. The commercial development is depicted in the background, the utility extension in the midground, and agricultural land in the foreground that continues to the north.

View 11

This view is at the proposed new entrance to the Facility looking westerly. The existing hauling operation to the right, and the mature vegetation to the left, frame the proposed access into the proposed Facility.

View 12

This view is from the northbound access roadway to Interstate 57. The existing mature vegetation and embankment shown, will buffer and filter the view into the proposed Facility.

View 13

This view is looking north on the entrance ramp to Interstate 57, at the west end of the proposed Facility Site. The area behind the fence row plantings will be the location of the detention area.

View 14

This view is looking east from County Road 1300E, slightly north of the corporate limits. The power lines, topography, intervening mature vegetation, and distance, obscure the visibility of the Facility. The water tower is visible in the distance.

5. Zoning

Section 39.2(g) of the Illinois Environmental Protection Act provides that local zoning or other land use requirements are not applicable to the local siting process. However, local zoning classifications are helpful when reviewing existing land uses of surrounding properties and determining how such properties may be developed in the future. Therefore, although the zoning classifications referenced in this report are not determinative of an evaluation under Criterion 3, TLG has included a discussion of local zoning classifications to further illustrate minimized incompatibility with the character of the surrounding area.

The study area for the local zoning analysis is described on Exhibit 4 (*Zoning Aerial*). This area encompasses approximately 3,642.2 acres within the County and the corporate limits of the

Village of Rantoul; the same study area as defined in the Land Use Aerial (Exhibit 1). The primary documents used in this analysis include an aerial photograph, and copies of the zoning maps of the Village of Rantoul and Champaign County, and GIS maps.

Subject Site Zoning

The Subject Site can be seen on Exhibit 4 (*Zoning Aerial*). The Subject Site is located in the Village of Rantoul within a C-2, Commercial District. The C-2 Commercial District permits several categories of use including the following: manufacturing, wholesaling, and warehousing activities. The Village of Rantoul Zoning Ordinance does not designate a transfer facility as a permitted or special use in any zoning district. However, "All manufacturing and industrial activities, including fabrication, processing, assembly, disassembly, repairing, recycling, cleaning, servicing, sorting, testing, packaging and storage of materials, products and goods that can be conducted wholly within enclosed buildings or structures" are allowed in the C-2 District. The proposed transfer station is similar in use, character, and intensity to the allowable uses described in the C-2 text.

Zoning Adjacent to the Recycling and Transfer Station Site

TLG analyzed zoning classifications adjacent to and surrounding the Subject Site for the purposes of evaluating the minimization of the Subject Site with surrounding zoning. Specifically, TLG analyzed zoning classifications within the study Areas surrounding the Subject Site.

The zoning of the proposed transfer station facility and the surrounding area is C-2, Commercial District. This zoning has been established historically and is appropriately positioned as a result of the established roadway system and existing built environment. There are no residentially zoned areas within the mandated minimum setback of 1,000 feet from the Subject site. An analysis of the existing zoning and the permitted uses within the study areas of the Subject Site, indicates that the existing uses have been established for many years and continued growth is anticipated as planned.

Based on the zoning analysis, it is the opinion of TLG that the proposed use for the Subject Site, lying within a C-2 Commercial District, minimizes incompatibility with the zoning uses in the area surrounding the site. The future uses that may be contemplated, will minimize impact on zoned or designated Comprehensive Plan uses.

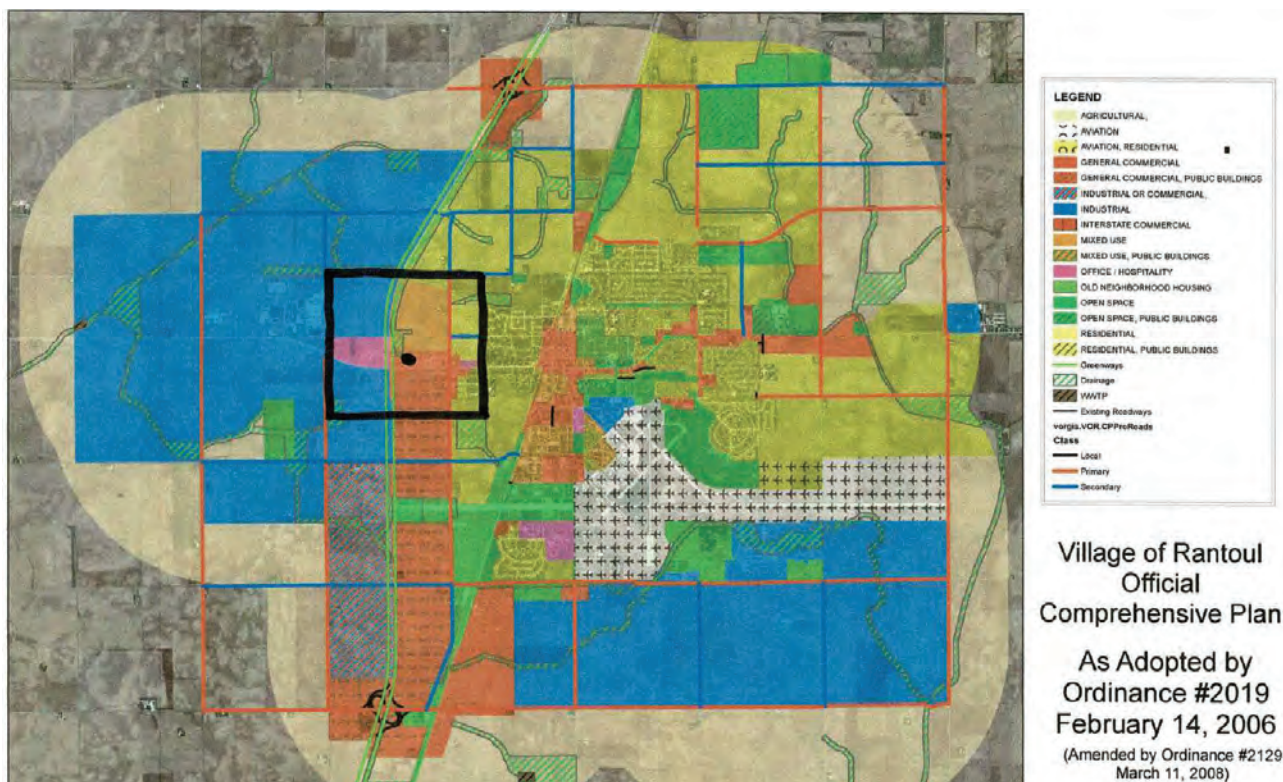
<u>Use</u>	<u>Acres</u>	<u>Percentage</u>
<u>Champaign County</u>		
AG-Agriculture	1,970.2	54.1
<u>Village of Rantoul</u>		
R1 Residential	140.3	3.9
R2 Residential	93.1	2.6
R4 Residential	37.2	1.0
C2 Commercial	167.7	4.6
C3 Commercial	45.5	1.3
I-1 Industrial Light	119.3	3.3
I-2 Industrial Heavy	388.3	10.7
AG Agriculture	485.0	13.3
R.O.W. Right of Way	147.0	4.0
Undefined Zoning	48.6	1.3
Total	3,642.2	100%

Findings:

- The Subject Site is located in a, C-2, Commercial District within the Village of Rantoul.
- Adjacent zoning in the immediate neighborhood is compatible with the proposed use.
- Residential uses have been successfully integrated within the study area. No residentially zoned property is located within the 1,000' setback requirement.
- Industrial and agricultural zoning classifications comprise approximately 81.4% of the study areas.

6. Comprehensive Plan

The Comprehensive Plan, adopted by Ordinance #2019 and amended by Ordinance #2129 on March 11, 2008, is referenced below. The plan depicts nineteen (19) designated land uses that generally coincide with the Village zoning classifications reflecting potential future uses. The Plan locates the Facility with a black dot, and the black line outlines a study area of approximately 2,500 feet. The Facility lies in the interstate commercial designation (red) along with the area to the south. The areas to the west, north, and south (in blue), reflect an industrial use while the land immediately west, shows Office/Hospitality (pink). The existing new Interstate 57 interchange has been constructed within this area and some land continues to be unincorporated. A mixed-use area (orange) is identified north of the Facility and contemplates multiple potentials. The Village's recent success in attracting industrial and manufacturing, and the time lapse from the last update suggests additional study could modify the designation currently shown. The area to the east (east of Murray Road/CO Road 1400) reflects old neighborhood housing that currently exists and is envisioned into the future.



Findings:

- Development trends in the area have reflected the plans intent.
- The Comprehensive Plan land uses are consistent with the Facility.
- Consideration for a Comprehensive Plan update is suggested.

7. Site Plan and Landscape Plan

The Site Plan depicting the new transfer station building location is shown on Exhibit 5 (Site Plan and Landscape Plan). The Site and Landscape Plan has been designed to accommodate traffic flow on and off site and preserve the existing vegetation along West Champaign Avenue. The landscape concept provides for maintenance of the mature planting along the existing roadways, plantings along the Interstate 57 frontage road, and additional plantings along the north side of the building, in order to reduce any impact not achieved by the large setbacks. The existing berm elevation on the north and the mature vegetation will continue to buffer the new Facility from southwest views. A plant list, comprised of botanical names, common names, and size, are provided for clarity in the material list shown on the plan. The final selection of the specific plant material will be designated at the time of installation, due to the season, weather, and availability.

8. Findings

In preparation of this report, TLG analyzed zoning maps, zoning ordinances, land use patterns, aerial photographs, site photographs, and surveyed land uses within the study area to determine the character and trend of land development in the area surrounding the Subject Site. Based on these reviews, exhibits, experience and analysis, it is the professional opinion of TLG that the proposed Rantoul Recycling and Transfer Station, when constructed with the proposed improvements and landscape plans, is so located as to minimize the incompatibility with the character of the surrounding area. Our conclusions supporting this finding are summarized as follows:

- The Subject Site is located in a C-2 Commercial district within the Village of Rantoul.
- The character of the immediate area surrounding the site has been defined by commercial and other businesses uses that have been established over the past years. The proposed transfer station development will blend with this existing land use pattern.
- The major land use in the area continues to be Agriculture within the County and the City.
- The Route 136 corridor (W. Champaign Ave.) is an appropriate land use buffer along the south property line, and mirrors adjacent uses.
- Agricultural, Commercial/Office, and Industrial/Manufacturing uses are compatible uses comprising 82.5% of the land in the focused study area, and 84.1% of the land in the wider study area, exceeding the requirements of the Siting Ordinance (2,500 feet).
- No residential zoned or used property is located within the 1,000' setback requirement of 415 ILCS 22.14.
- Residential uses account for approximately 7.3% of the Wider Study Area and occur primarily to the southeast within established neighborhood areas, removed from any major impact of the proposed transfer station site.

- The proposed transfer station development will be screened by plantings along the roadway frontages, west and south, and by berms and plantings along the north.

The zoning classification percentages generally reflect the existing land use patterns percentages. The similarity indicates that land use and zoning decisions are related and supported by development activities.

9. Conclusion

Based on our land use analysis and findings, it is the opinion of The Lannert Group, Inc. and its professionals, that the proposed Rantoul Recycling and Transfer Station is so located as to minimize the incompatibility with the character of the surrounding area and, therefore, satisfies the first part of Criterion 3 of Section 39.2(a) of the Act.

J. Christopher Lannert, President
The Lannert Group, Inc.

December, 2025

10. Appendix

Municipal and County Resources

Village of Rantoul

Zoning Ordinance
Zoning Map
Comprehensive Plan

Champaign County

Zoning Map (Current G.I.S. Postings)

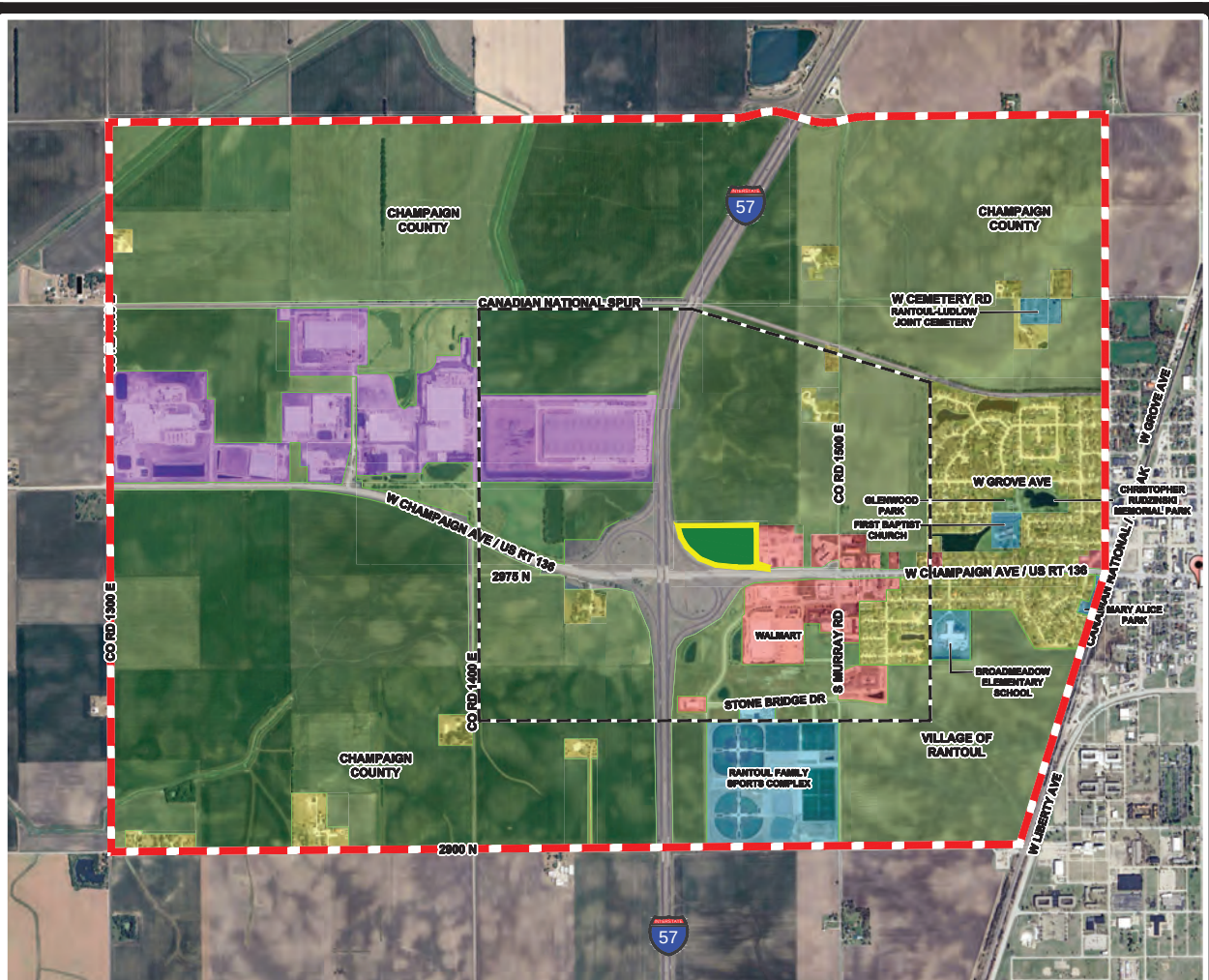
Resume

J. Christopher Lannert

Exhibits

Exhibit 1, (*Land Use Aerial*)
Exhibit 2, (*Off Site Views*)
Exhibit 3, (*Off Site Views*)
Exhibit 4, (*Zoning Aerial*)
Exhibit 5, (*Landscape Plan*))

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LEGEND

- SUBJECT SITE
- WIDER STUDY AREA
- FOCUS STUDY AREA

LAND USE CLASSIFICATIONS

	FOCUS STUDY AREA		WIDER STUDY AREA	
	ACRES	%	ACRES	%
 AGRICULTURE / OPEN SPACE*	588.8	64.9%	2704.9	74.3%
 RESIDENTIAL	42.7	4.7%	264.7	7.3%
 COMMERCIAL*	81.1	8.9%	84.3	2.3%
 INDUSTRIAL / WAREHOUSE	79.2	8.7%	271.5	7.5%
 PUBLIC / SCHOOL / CHURCH	3.1	0.3%	109.7	3.0%
 TRANSPORTATION / RIGHT-OF-WAY	112.7	12.4%	207.1	5.7%
TOTAL	907.5	100%	3642.2	100%

* INCLUDES SUBJECT SITE

ZONING INFORMATION AS AVAILABLE FEBRUARY 10, 2025 VIA THE CHAMPAIGN COUNTY GIS CONSORTIUM

AERIAL PHOTOGRAPHY OBTAINED VIA: GOOGLE EARTH DATED JUNE 29, 2023



Lannert Group

Landscape Architecture ■ Planning ■ Community Consulting

215 Fulton Street
Geneva, Illinois 60134

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Fax (630) 208-8050
http://www.lannert.com
tlg@lannert.com

RANTOUL RECYCLING & TRANSFER FACILITY

PREPARED FOR:
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

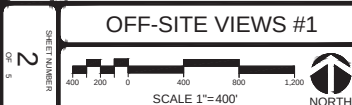
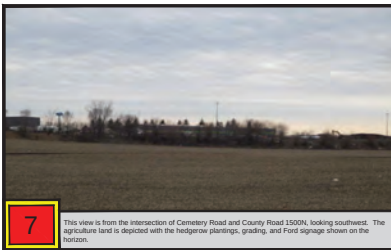
DESIGNED BY: KL

DATE: DECEMBER 2025

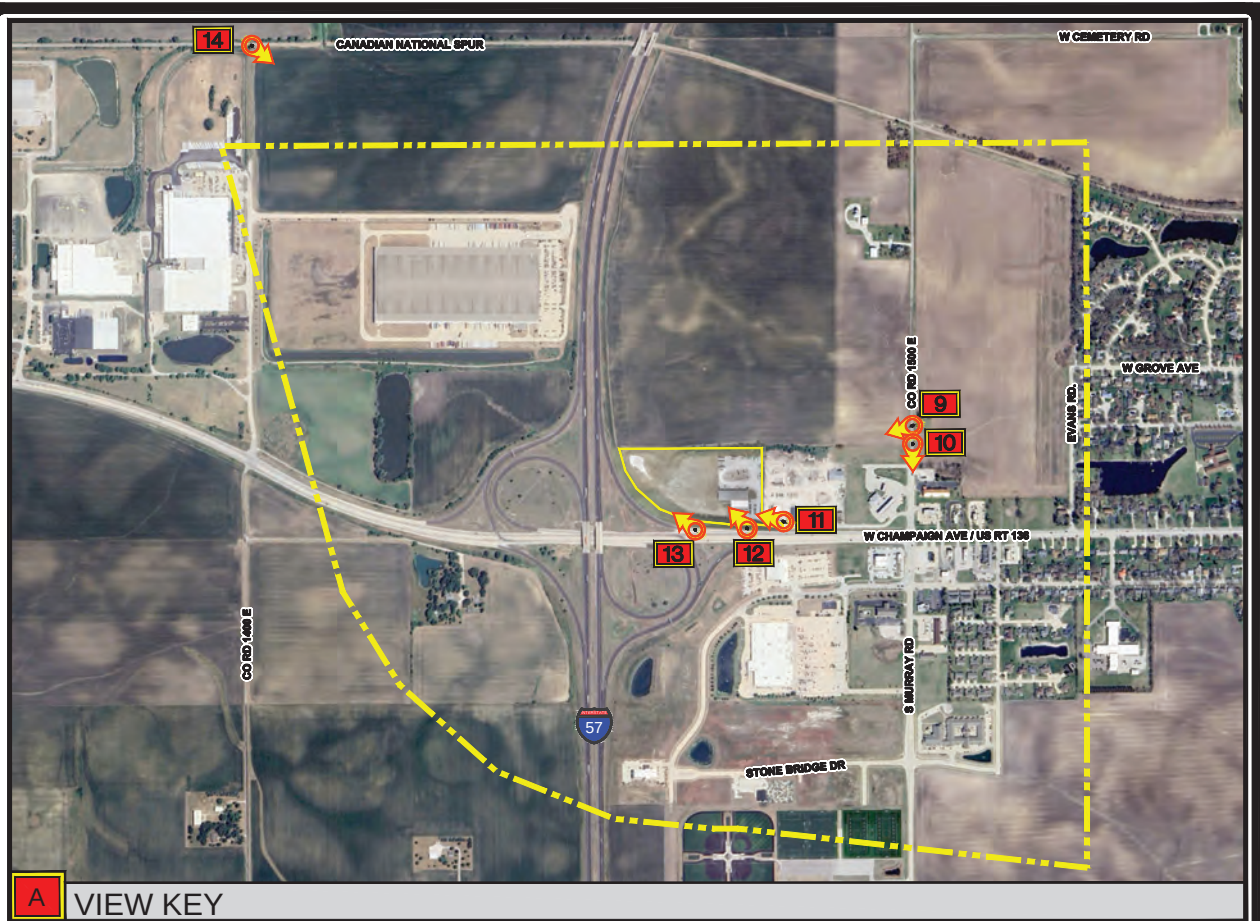
REVISIONS:

JOB NO.: 2406

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A VIEW KEY



9 This view is from County Road 1500 at the corporate limit line. The new utility easement construction is seen in the midground, and the commercial uses along W. Champaign Avenue are shown in the background.



10 This view is looking south down Murry Road to the intersection with West Champaign Avenue. The commercial development is depicted in the background, the utility extension in the midground, and agricultural land in the foreground that continues to the north.



11 This view is at the proposed new entrance to the Facility looking westerly. The existing hauling operation to the right, and the mature vegetation to the left, frame the proposed access into the proposed Facility.



12 This view is from the northbound access roadway to Interstate 57. The existing mature vegetation and embankment shown, will buffer and filter the view into the proposed Facility.



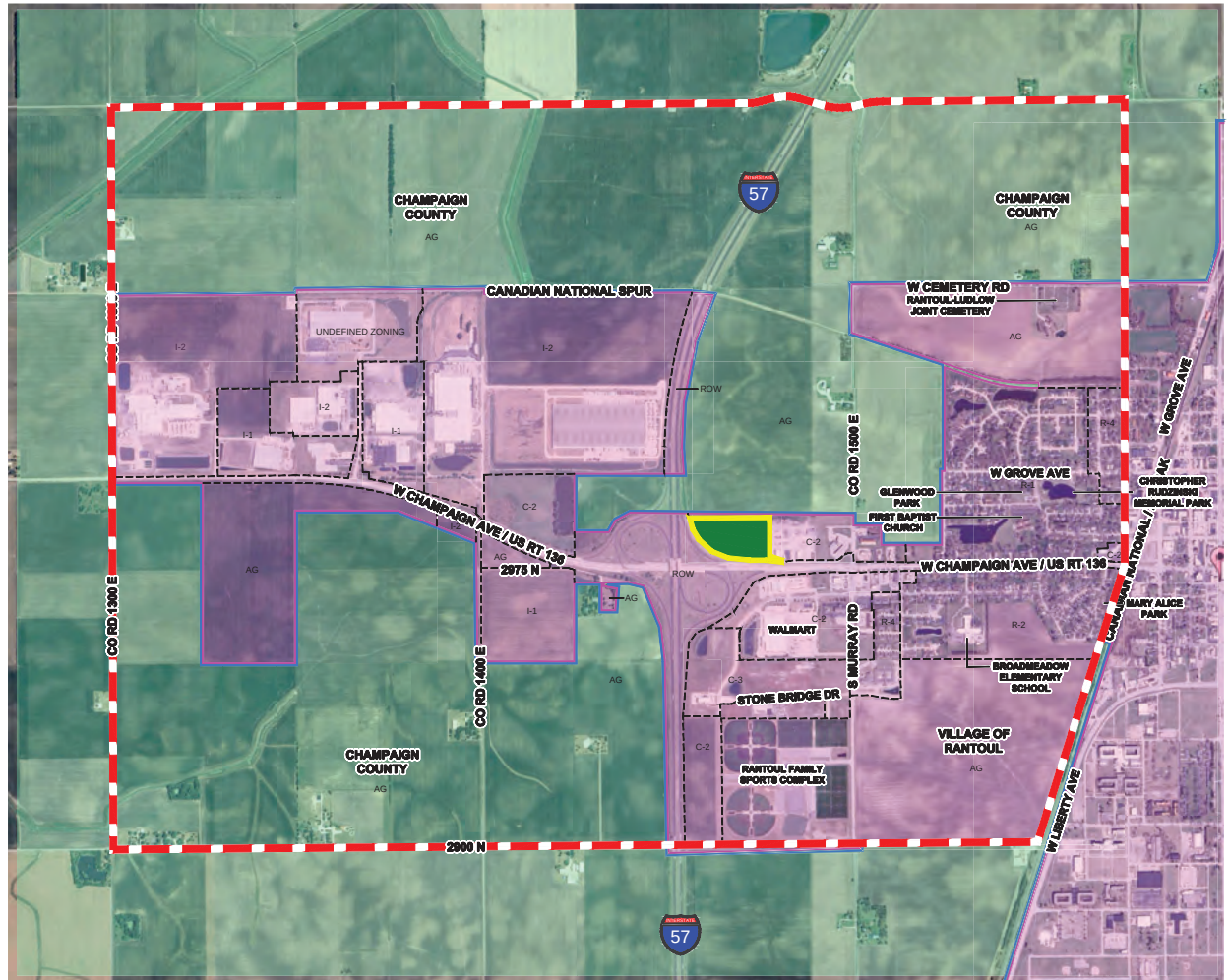
13 This view is looking north on the entrance ramp to Interstate 57, at the west end of the proposed Facility Site. The area behind the fence row plantings will be the location of the detention area.



14 This view is looking east from County Road 1300E, slightly north of the corporate limits. The power lines, topography, intervening mature vegetation, and distance, obscure the visibility of the Facility. The water tower is visible in the distance.

SHEET NUMBER 3 OF 5	OFF-SITE VIEWS #2	Lannert Group Landscape Architecture ■ Planning ■ Community Consulting 215 Fulton Street Geneva, Illinois 60134 (630) 208-8088 Fax (630) 208-8050 http://www.lannert.com tlg @ lannert.com	© 2025 The Lannert Group, Inc.	RANTOUL RECYCLING & TRANSFER FACILITY PREPARED FOR: CIVIL & ENVIRONMENTAL CONSULTANTS, INC.	DRAWN BY: KL	REVISIONS: 1 2 3	DATE: DECEMBER 2025	JOB NO.: 2406
	NORTH							

DRAWING NAME: H:\Project Files\Active Jobs\2024 Jobs\2406 Rantoul Recycling & Transfer Station\Drawing Data\A Exhibits\2025-12-15_15_12-15_LU-2_Exhibits.dwg DATE PRINTED: Dec 15, 2025 - 4:43pm



LEGEND

- SUBJECT SITE
- STUDY AREA
- ZONING DISTRICT BOUNDARY

ZONING CLASSIFICATIONS

ZONING USES		AC	%
CHAMPAIGN COUNTY, IL			
AG	AGRICULTURE	1970.0	54.1%
VILLAGE OF RANTOUL			
R1	RESIDENTIAL 1	140.3	3.9%
R2	RESIDENTIAL 2	93.1	2.6%
R4	RESIDENTIAL 4	37.2	1.0%
C-2	COMMERCIAL*	167.7	4.6%
C-3	COMMERCIAL	45.5	1.3%
I-1	INDUSTRIAL LIGHT	119.3	3.3%
I-2	INDUSTRIAL HEAVY	388.3	10.7%
AG	AGRICULTURE	485.0	13.3%
ROW	RIGHT-OF-WAY	147.0	4.0%
	UNDEFINED ZONING	48.6	1.3%
TOTAL		3642.2	100.0%
*INCLUDES SUBJECT SITE			

ZONING INFORMATION AS AVAILABLE FEBRUARY 10, 2025 VIA THE CHAMPAIGN COUNTY GIS CONSORTIUM

AERIAL PHOTOGRAPHY OBTAINED VIA GOOGLE EARTH DATED JUNE 29, 2023

ZONING AERIAL EXHIBIT

SHEET NUMBER
4
OF 5



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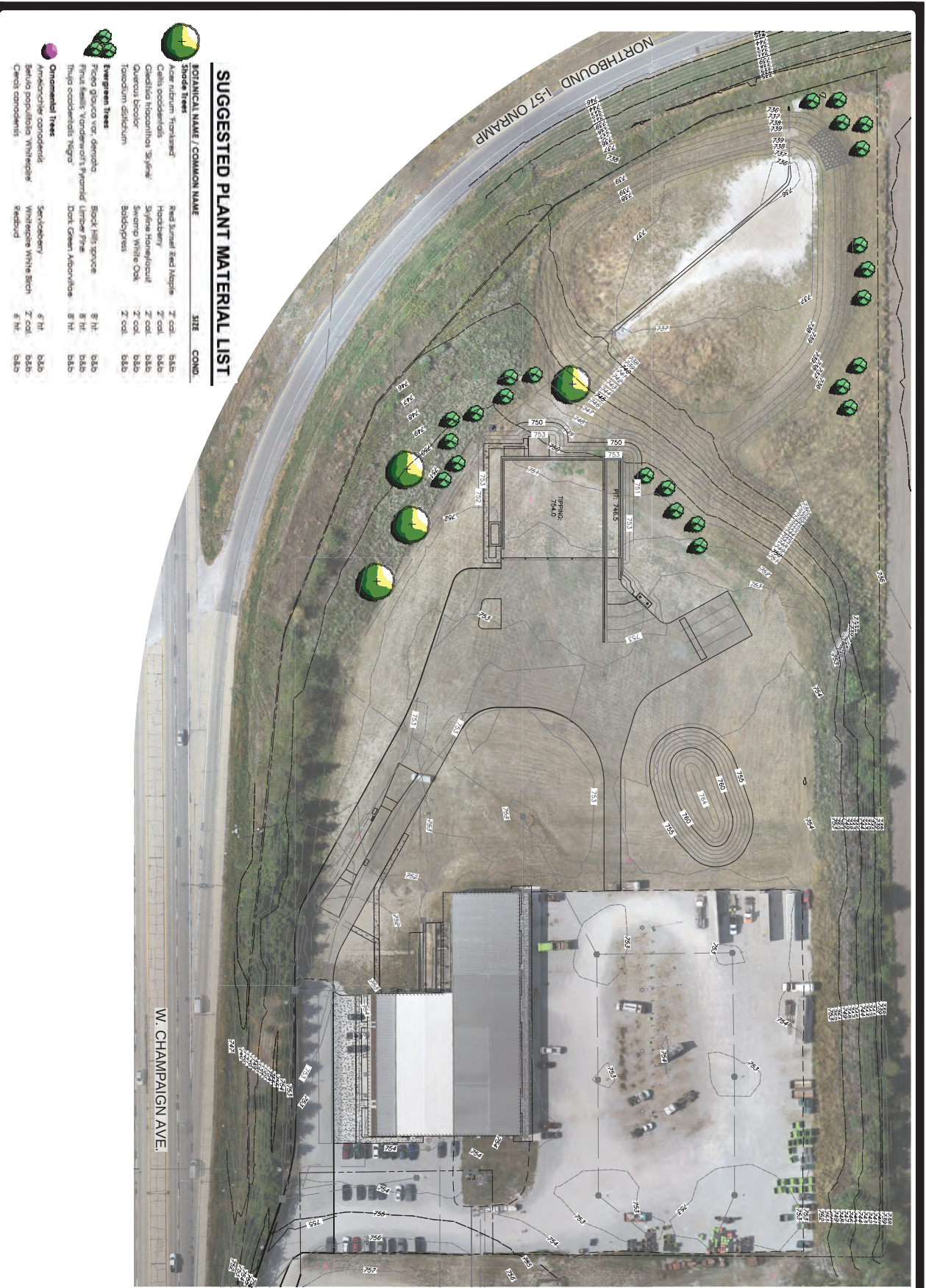
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RANTOUL RECYCLING & TRANSFER FACILITY

PREPARED FOR:
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

DRAWING NO.

DATE: 2006
DECEMBER 2025
REV. VISIONS

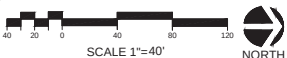
R-936



SUGGESTED PLANT MATERIAL LIST

BOTANICAL NAME / COMMON NAME	SIZE	COND.
Shade Trees		
Acer rubrum 'Fraxinoides'	12' col.	b/bb
Celtis occidentalis	12' col.	b/bb
Quercus macrocarpa 'St. Jovis'	12' col.	b/bb
Quercus bicolor	12' col.	b/bb
Ipomoea distichum	12' col.	b/bb
Evergreen Trees		
Pinus strobus var. densata	8' ht.	b/bb
Pinus taeda 'Vanderhoofi'	8' ht.	b/bb
Thuja occidentalis 'Nigra'	8' ht.	b/bb
Ornamental Trees		
Amelanchier canadensis	6' ht.	b/bb
Betula populifolia 'Whitestyle'	12' col.	b/bb
Cercis canadensis	6' ht.	b/bb

LANDSCAPE PLAN



Lannert Group

Landscape Architecture • Planning • Community Consulting

215 Fulton Street
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RANTOUL RECYCLING & TRANSFER FACILITY

PREPARED FOR:
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

DRAWN BY: KL	SHEET NUMBER 5 OF 5	DATE DECEMBER 2025	PROJECT NO. 2406
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REAL ESTATE IMPACT STUDY
(PREPARED BY ASSOCIATED PROPERTY COUNSELORS, LTD.)

Civil & Environmental Consultants, Inc.

THE REAL ESTATE IMPACT STUDY

The Proposed Rantoul Recycling and Transfer Station

LOCATION

896 West Champaign Avenue Service Road
Champaign County, Rantoul, Illinois 61866

PREPARED FOR

Area Disposal Services, Inc.
c/o Mr. Matt Coulter
4700 North Sterling Avenue
Peoria, Illinois 60615

PREPARED BY

Dale J. Kleszynski, MAI, SRA
Patrick A. Kleszynski, MAI
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AS OF

September 1, 2025

ASSOCIATED PROPERTY COUNSELORS, LTD.

Real Estate Appraisers and Consultants

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December 15, 2025

Area Disposal Services, Inc.
c/o Mr. Matt Coulter
4700 North Sterling Avenue
Peoria, Illinois 61615

Re: The Real Estate Impact Study
The Proposed Rantoul Recycling and Transfer Station
894 and 896 West Champaign Avenue Service Road
Champaign County, Rantoul Illinois

Dear Mr. Coulter:

At the request of Area Disposal Services, Inc. (ADS), Associated Property Counselors, Ltd. (APC) completed a study of the Proposed Rantoul Recycling and Transfer Station to determine if the development satisfies the second portion of Illinois Environmental Protection Act, 415 ILCS 5/39.2 (a) (iii), commonly referred to as "Criterion 3". Criterion 3 requires that "the facility is located so as to minimize incompatibility with the character of the surrounding area and to minimize the effect on the value of the surrounding property". This report evaluates whether the proposed facility minimizes the effect on the value of the surrounding property.

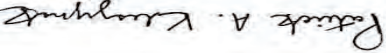
The attached report describes the applied methodology and contains pertinent data gathered while completing this study. The study and report are intended to meet the applicable Law in the State of Illinois, the Uniform Standards of Professional Appraisal Practice and the Code of Ethics of the Appraisal Institute.

Based on our analysis, APC concludes that the Proposed Rantoul Recycling and Transfer Station is located "so as to minimize incompatibility with the character of the surrounding area and to minimize the effect on the value of the surrounding property" thereby meeting the standards set in "Criterion 3".

If you have any questions, please contact me.
Respectfully submitted,



Dale J. Kleszynski, MAI, SRA
President
Illinois License Number 553.000213
Expires 9/30/2027



Patrick A. Kleszynski, MAI
Vice President
Associated Property Counselors, Ltd.
Certified General Real Estate Appraiser (IL License Number 553.002510)
Expires 9/30/2027

3.1 INTRODUCTION

The second portion of Illinois Environmental Protection Act, 415 ILCS 5/39.2 (a) (iii), commonly referred to as “Criterion 3” requires that the applicant for a transfer station demonstrate that “the facility is located so as to minimize incompatibility with the character of the surrounding area and to minimize the effect on the value of the surrounding property”. Associated Property Counselors, Ltd. (APC) completed a study of the Proposed Rantoul Recycling and Transfer Station to determine whether the proposed development satisfies this requirement.

This section of the report contains items that are required to meet the Uniform Standards of Professional Appraisal Practice and the Code of Ethics of the Appraisal Institute. Subsequent sections of the report describe the applied methodology and contain pertinent data gathered while completing this study.

INTENDED USER OF THE REPORT

In this matter, the client is identified as Area Disposal Service, Inc. Mr. Matt Coulter represents the client. The client is the intended user of the study and report. Additional intended users will be named later, if necessary. No other user is intended or implied.

INTENDED USE OF THE REPORT

This study and report are to be used by the client as part of the siting application for the Proposed Rantoul Recycling and Transfer Station. The improvements are to be developed and located within the northeast quadrant of Interstate 57 and West Champaign Avenue Service Road with a common address of 894 and 896 West Champaign Avenue, Rantoul, Champaign County, Illinois. No other use is intended or implied.

IDENTIFICATION OF THE REAL ESTATE

The subject property is located within the southeast quadrant of Interstate 57 and West Champaign Avenue with a common address of 896 West Champaign Avenue, Rantoul, Champaign County, Illinois 61866. The proposed location of the transfer station is at the western terminus of the existing facility that adjacent to Interstate 57 and the service road that grants access to the subject and nearby commercial development. The proposed transfer station site has frontage on the existing West Champaign Service Road and Interstate 57. The property is further identified by Permanent Real Estate Tax Index Number(s) 20-09-04-201-004 and 20-09-04-227-005. The location and layout of the subject property can best be understood by viewing the various illustrations that are located elsewhere in this report.

PROPERTY RIGHTS AND MARKET VALUE

Neither the subject property nor any adjacent properties have been evaluated as part of this study. Where applied, the term “Market Value” refers to the fee simple estate. The Dictionary of Real Estate Appraisal, Seventh Edition, defines fee simple estate as the “absolute ownership unencumbered by any other interest or estate, subject only to the limitations imposed by the governmental powers of taxation, eminent domain, police power, and escheat.”

Where applied, the definition of Market Value is taken from the Appraisal of Real Estate, Fifteenth Edition.

PURPOSE OF THE STUDY

The purpose of this study is to determine if the proposed transfer station complies with the second portion of Illinois Environmental Protection Act, 415 ILCS 5/39.2 (a) (iii), commonly referred to as "Criterion 3". "Criterion 3" requires that the applicant for a transfer station demonstrate that "the facility is located so as to minimize incompatibility with the character of the surrounding area and to minimize the effect on the value of the surrounding property".

EFFECTIVE DATE OF THE STUDY

The effective date of the study is September 1, 2025.

EFFECTIVE DATE OF THE REPORT

The effective date of the report is December 15, 2025.

COMPLIANCE WITH USPAP

This study and report are completed in compliance with the applicable law in the State of Illinois, the Uniform Standards of Professional Appraisal Practice and the Code of Ethics of the Appraisal Institute. Additional data is retained in my file and/or office.

**DISCLOSURE OF PAST WORK, EXTRAORDINARY ASSUMPTIONS,
HYPOTHETICAL CONDITIONS AND/OR SPECIAL LIMITING CONDITIONS**

Neither Associated Property Counselors, Ltd., Dale J. Kleszynski, MAI, SRA nor Patrick A. Kleszynski, MAI has completed professional services associated with this property during the past three years.

The description of the proposed improvements is based on information provided by Civil & Environmental Consultants, Inc. (CEC). The provided information includes, but is not limited to, multiple drawings, proposed building elevations, the Local Siting Application, The EDR Aerial Photo Decade Package, the report prepared by the Lannert Group, Inc., and Section 2.2 of the AEI Criterion 2 report. APC reserves the right to amend this study and report if additional information becomes available or the subject transfer station is not developed in accordance with the provided plans and specifications.

There are no other extraordinary assumptions, hypothetical conditions, and/or special limiting conditions that impact the study and/or report.

3.2 EXISTING CONDITIONS AND PROPOSED DEVELOPMENT

The subject property is located within the northeast confluence of Interstate 57 and the West Champaign Avenue, Rantoul, Illinois.

A Regional Map showing the approximate location of the site follows. Information describing the Village of Rantoul, taken from various sources, is also presented.

The drawings provided by CEC indicates that the subject property is to be located within the 13.68-acre Rantoul Recycling and Transfer Station property that is generally bounded by the Interstate 57 to the west, West Champaign Service Road to the south, agricultural land to the north and industrial/commercial development to the east. Photographs and illustrations of the subject property showing the existing conditions follow.

Uses currently located on the Rantoul Recycling and Transfer Station include a maintenance building, paved parking and internal roadway/driveways. Upon completion of construction the Rantoul Recycling and Transfer Station, (having approximately 13.68 acres and identified as S500), will include a scale, maintenance/office building, various internal roadways, and parking areas. The site will be used to receive 500 tons of municipal solid waste and recyclables daily.

The property and transfer station will have access from the West Champaign Avenue Service Road from South Murry Road. The topography of the property is generally level and at the grade of surrounding properties. This is typical of the area. All utilities are reported to be available in the area and to the subject property.

The primary transportation link to the subject property is the West Champaign Avenue Service Road. This service road provides access to South Murray Road and primary West Champaign Avenue (Illinois Route 136 parallel to the service road). Illinois Route 136 is a full interchange of Interstate 57, local Illinois Routes and the region in general.

RANTOUL RECYCLING AND TRANSFER STATION

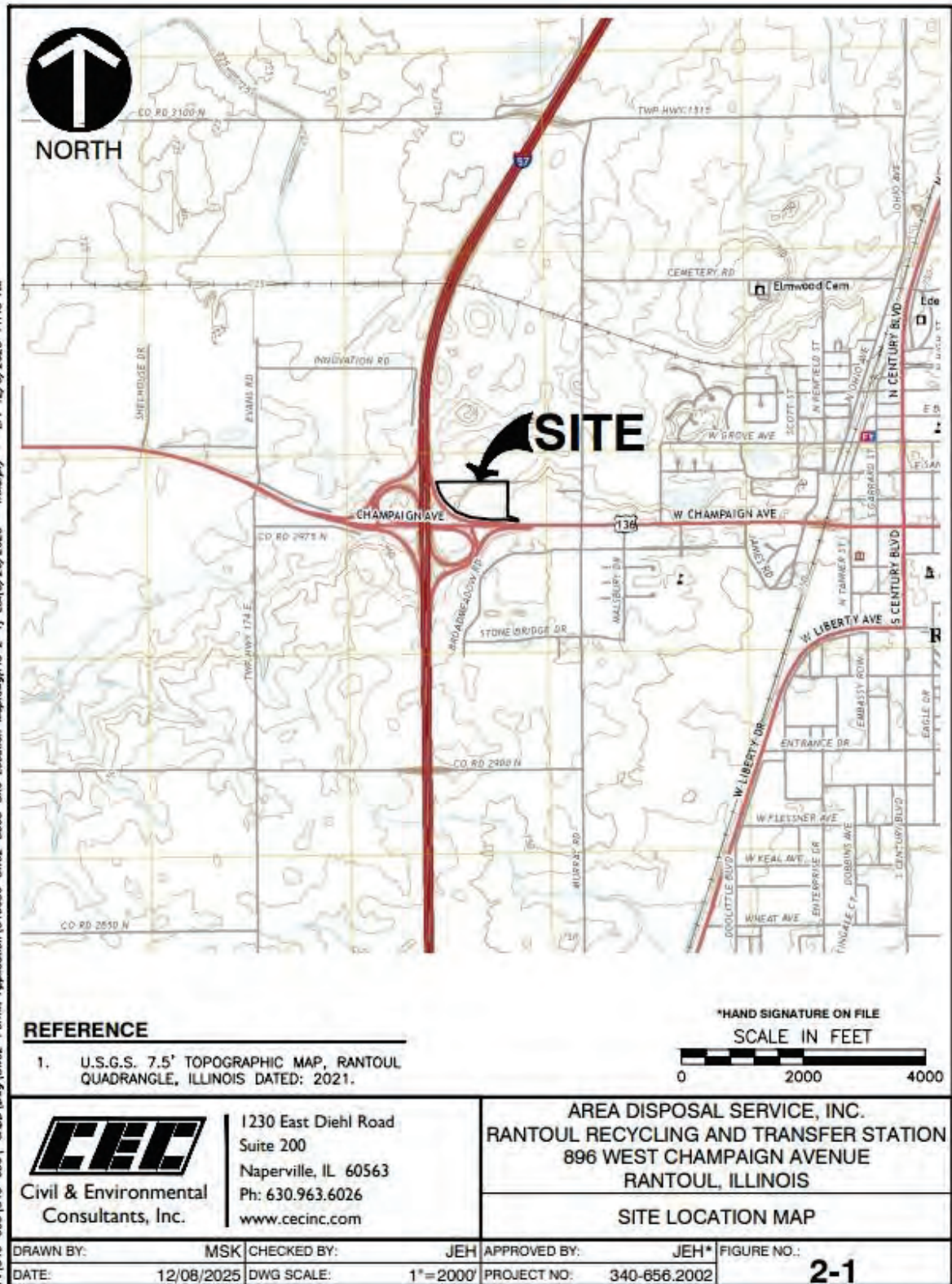


Date: Monday, June 2, 2025

AREA DATA - SUMMARY

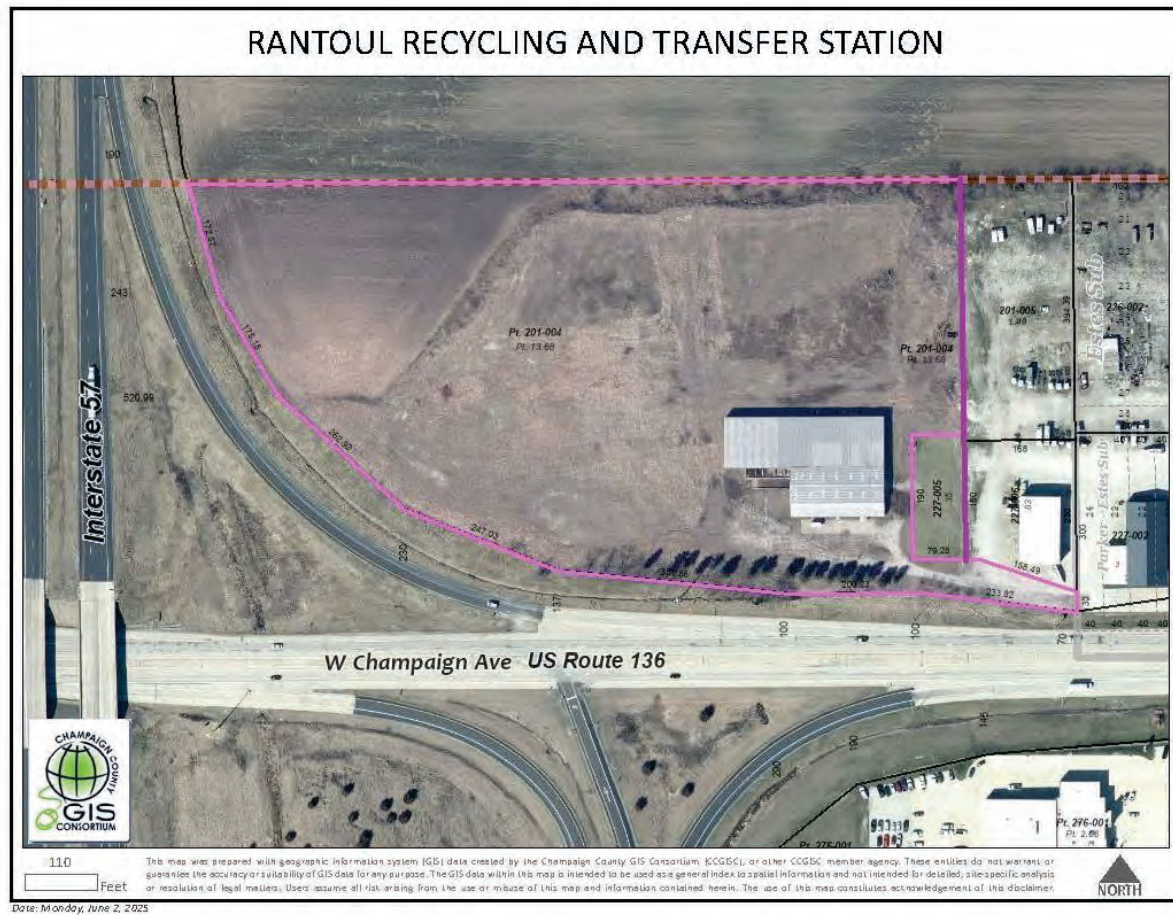
Location:	Village of Rantoul Champaign, Illinois
Distance to Major Cities:	Chicago, Illinois 123 miles Indianapolis, Indiana 130 miles St. Louis, Missouri 196 miles
Housing:	Rantoul is an established community with diverse home styles ranging from historic to new construction. According to the Multiple Listing Service, the average sale price of a home in Rantoul was \$138,000 in 2025.
Health Care:	Health care needs are served by Carle Health and OSF Medical. Larger medical facilities are located in nearby Champaign, Illinois.
Education:	Rantoul City Schools School District 137 serves the city of Rantoul. There are five (5) public schools serving grades kindergarten through grade 8. Rantoul Township High School District 193 serves grades 9 through 12. In addition, there are a number of private and parochial schools that serve the area. Higher education needs are served by the University of Illinois Urbana-Champaign in nearby Champaign, Illinois.
Recreational Facilities:	Recreational needs are well served by the Rantoul Parks and Recreation Department. The city services numerous parks, aquatic center, campground, fitness center and youth center.
Labor Market:	Champaign County and the area surrounding Rantoul has a large labor pool of both skilled and unskilled labor. The convenient location has attracted major industries to the area and the current unemployment rate is reported to be 3.2 percent.
Employment:	Employment in Rantoul is generally local in character. Larger nearby employers include OSF Medical, Walmart Distribution, Constellation Energy, Vista Outdoor, Jeld-wen Windows ConAir, Vactor Manufacturing and James Hardie.
Utilities:	Electricity, gas, municipal water, sewer and sanitation in the area are provided Ameren Illinois and Commonwealth Edison.
Transportation:	Rantoul is located along Interstate 57 and private vehicles are the primary mode of transportation. The expressway system allows convenient access to all portions of the state. Public transportation in Rantoul is provided by Eagle Express Bus Service while rail transportation is provided daily by Amtrak. Regional air transportation is facilitated at Willard Airport in Urbana.

REGIONAL AND LOCATION MAP



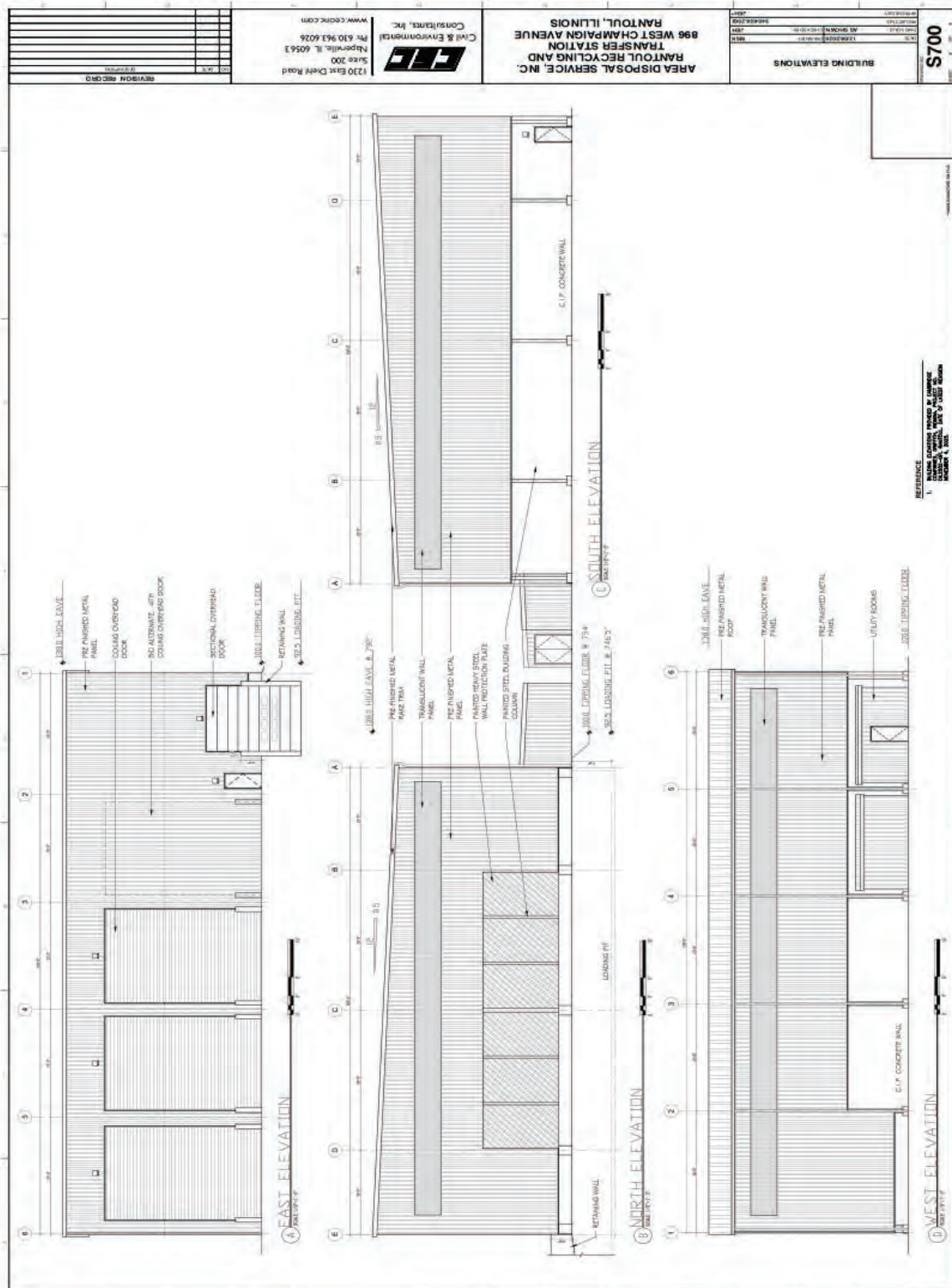
PHOTOGRAPHS OF THE SUBJECT PROPERTY

The following identifies the site features of the subject property – Existing Conditions.



SUBJECT PROPERTY – AERIAL PHOTOGRAPH

SUBJECT PROPERTY – PROPOSED CONDITIONS



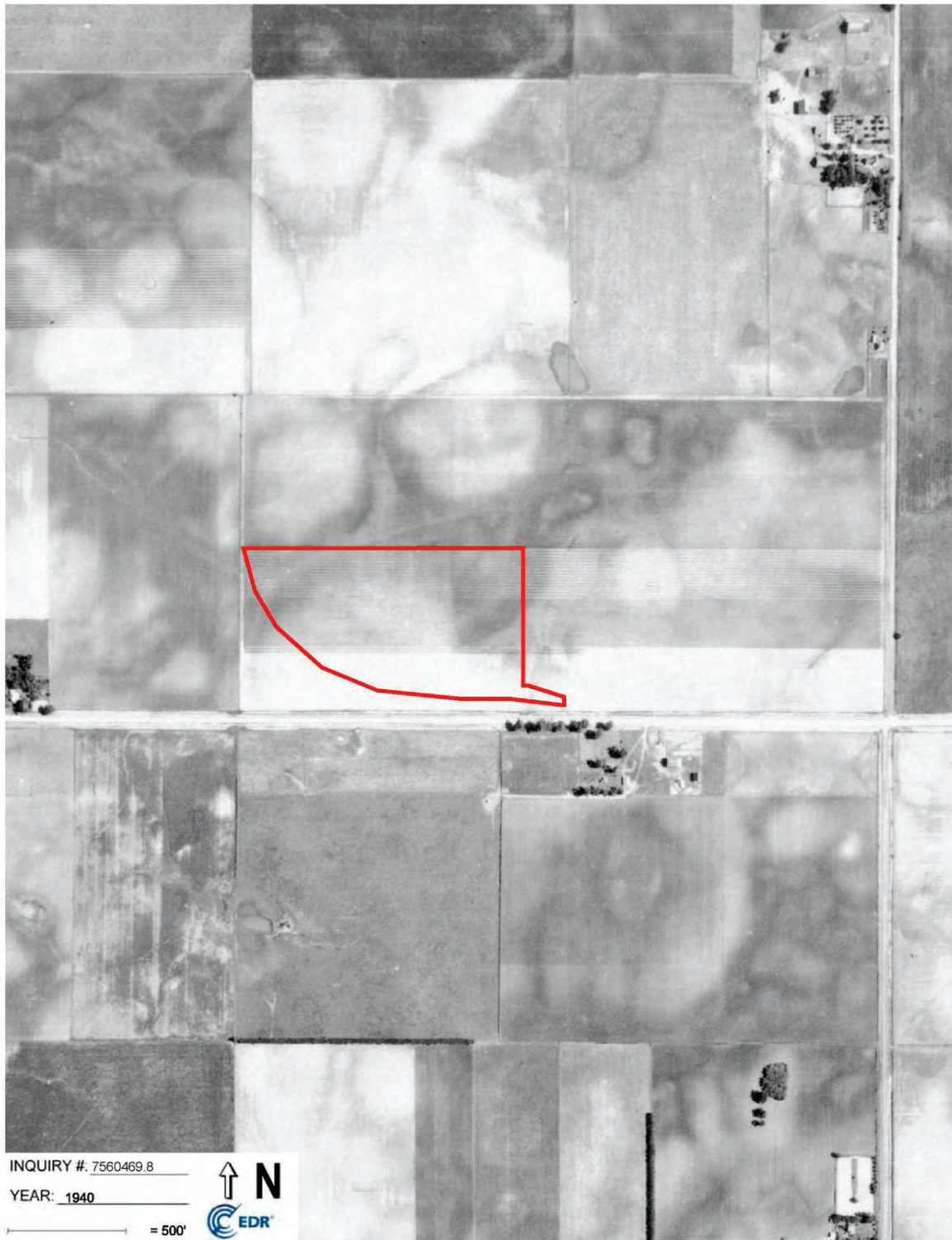
3.3 HISTORIC AERIAL PHOTOS

The following aerial photographs demonstrate the development trends near the subject site from 1940 through 2019. The subject property is identified as being within the Rantoul Recycling and Transfer Station that is generally bounded by the West Champaign Avenue Service Road to the south, the access ramp of Interstate 57 to the west, agricultural land to the north and industrial/commercial applications to the east. Uses surrounding the property include, but are not limited to, Area Disposal Service, Inc., Rantoul Truck Center, Inc., Steve Combest, Hepburn & Schlorff and Macs Convenience Store, Agricultural applications, hotels, retail establishments and an automobile dealership.

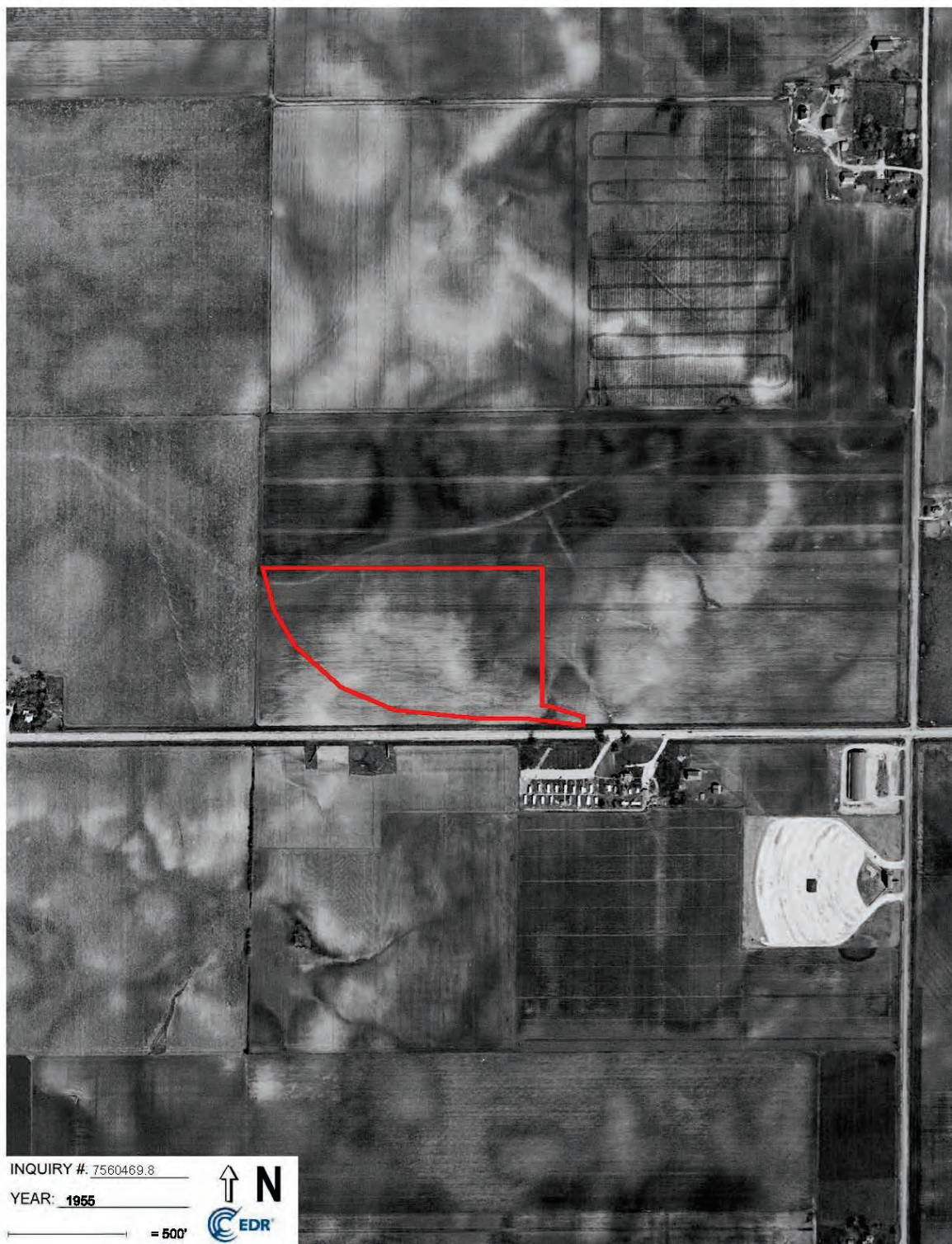
The aerial photos show the location of recycling and industrial uses as well as commercial development in the area. The photographs demonstrate the compatibility of the uses and support the conclusion that the area has developed in a manner that has capitalized on the arterial streets and the access to Interstate 57. General development has been consistent since the construction of the access to Interstate 57 in the 1960's. See illustrations that follow.

Uses in the area are consistent and demonstrate the compatibility of the industrial/recycling applications with various commercial applications. The photographs that follow demonstrate that the Rantoul Recycling and Transfer Station is experiencing construction/expansion that accommodate the Highest and Best Use of the property. The modification and construction of the improvements demonstrate a commitment to the current use and area.

1940



1955



1969



1974



1976



1983



1993



1998



2006



2009



2012



2015



2019



3.4 DEVELOPMENT IN THE STUDY AREA

The Project Area Map that follows this discussion identifies the location of the subject and shows the uses that exist nearby. The site can only be accessed from the West Champaign Avenue Service Road with the primary cross street being to the east at South Murray Road. The site cannot be accessed from the west or north since the West Champaign Avenue Service Road dead ends at the western elevation of the property. It is noteworthy that all the businesses located along the north side of the West Champaign Access Road are similar to the subject with respect to access and nearby primary roadways. Only the retail fuel sales facility has superior access due to the location at a signalized intersection of South Murray Road and Champaign Avenue. It is further noteworthy that the Proposed Rantoul Recycling and Transfer Station is to be located at the western terminus of the access roadway and the northern portion of the site effectively isolating the intended development from nearby properties.

Manmade boundaries for the study area are Illinois Route 136 (West Champaign Avenue), Interstate 57 and County Road 1500 E (Murray Road). Within the overall study area, the Proposed Rantoul Recycling and Transfer Station is shielded from surrounding uses by its location at the northwestern portion of the site, the north side of the Illinois Route 136 (Champaign Avenue), the east side of the Interstate 57 Interchange, the industrial/commercial uses located to the northwest of the intersection of South Murray Road and Illinois Route 136/West Champaign Avenue (3-25).

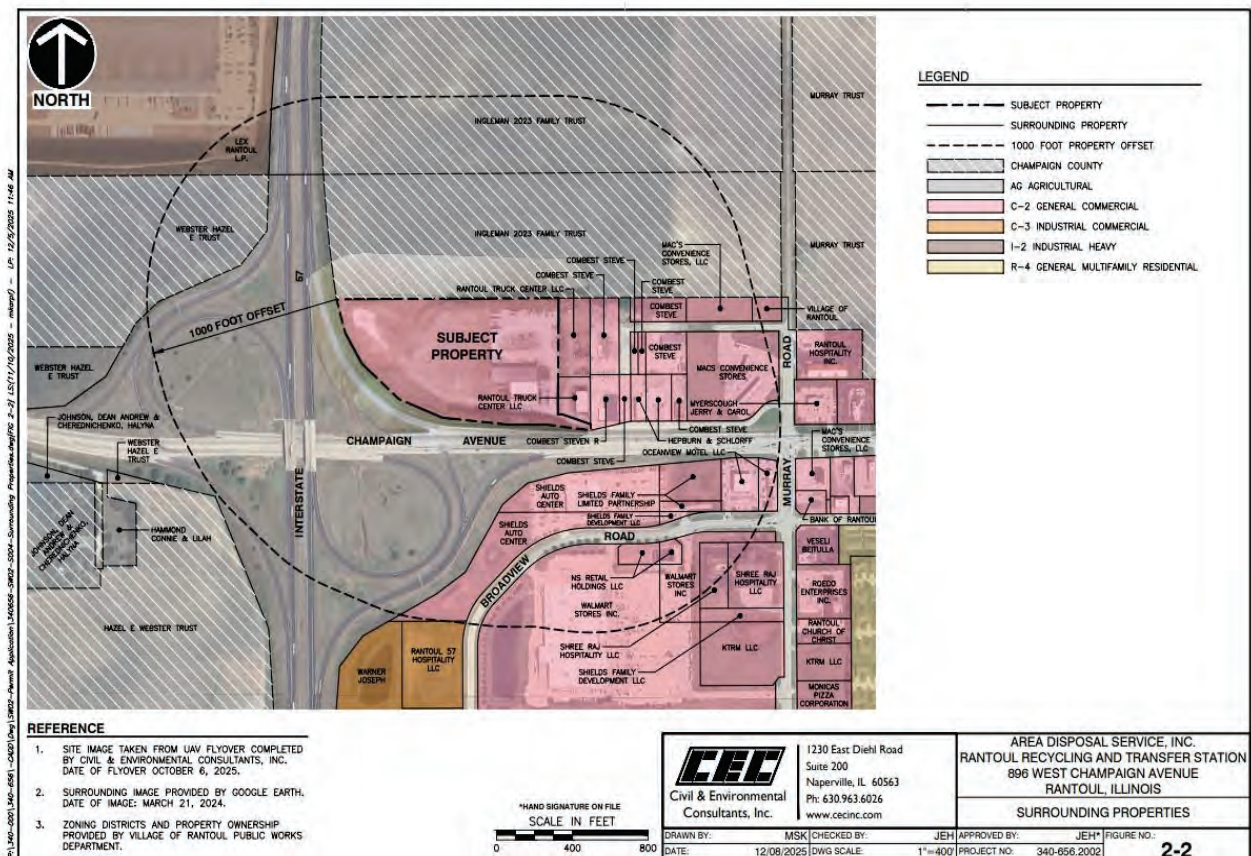
The area within these boundaries encompasses approximately 40.00 acres. The man-made boundaries, applications within these boundaries and primary streets that define this area effectively isolate and buffer the Proposed Rantoul Recycling and Transfer Station from all adjacent applications. The impact of these locational features is to isolate and minimize any influence the intended use will have on properties outside the defined area. The illustration that follows identifies the general uses that are in the study area surrounding the subject site. See illustrations that follow.



Within the defined manmade boundaries and the adjacent areas on the west side of Illinois 136 (West Champaign Avenue), outlined in the hash marks on the illustration, the uses are compatible with the Proposed Rantoul Recycling and Transfer Station and consistent with commercial uses located within the southwest quadrant of Interstate 57 and West Champaign Avenue. Uses within the radius identified below include Area Disposal Service, Inc., Rantoul Truck Center, Inc., Steve Combest, Hepburn & Schlorff, Mac's Convenience Stores, LLC., Oceanview Motel, LLC., Shields Family Limited Partnership, Shields Family Development, LLC, Shields Family Auto Center, NS Retail Holdings, LLC, Walmart Stores, Inc., and Shree Raj Hospitality, LLC.

The Proposed Rantoul Recycling and Transfer Station is consistent with nearby uses while being isolated by the previously outlined manmade and natural boundaries. Uses or development within the study area that include the above-mentioned range of applications are identified on the illustration below, the Zoning Map that follows and the photographs presented elsewhere.

The following illustration identifies the uses that are within the study area for the Proposed Rantoul Recycling and Transfer Station.



The above zoning map indicates that zoning classifications within the Study Area and adjacent areas include County Classifications, (AG) Agricultural, C-2, General Commercial, C-3, Industrial Commercial, I-2, Industry Heavy, and R-4, General Multi-family Residential.

In summary, uses within the study area discussed above include the following:

- Area Disposal Service
- Rantoul Truck Center
- Retail Fuel Sales
- Automobile Sales and Service
- Agricultural Use
- Walmart
- Hospitality facilities

From an appraisal perspective it is significant to note that the value of any property is maximized, and the impact uses have on adjacent properties is minimized when individual development is the Highest and Best Use of the property, area developments comply with existing zoning requirements and development patterns adhere to the principle of conformity in a balanced market. Adherence to reasonable conformity and balance are supported by the above referenced inventory of nearby applications.

3.6 HIGHEST AND BEST USE

A Highest and Best Use Analysis was completed in this matter.

The following definition of Highest and Best Use is applied in this study.

“The reasonably probable and legal use of vacant land or an improved property, which is physically possible, appropriately supported, financially feasible, and that results in the highest value. The four criteria the highest and best use must meet are legal permissibility, physical possibility, financial feasibility, and maximum productivity.”

The following criteria must be met in determining Highest and Best Use:

1. Legal Permissibility. A property use that is either currently allowed or most probably allowable under zoning codes, building codes, environmental regulations, and other applicable laws and regulations that govern land use restrictions.
2. Physical Possibility. The land must be able to accommodate the size and shape of the ideal improvement.
3. Financial Feasibility. The ability of a property to generate sufficient income to support the use for which it was designed.
4. Maximum Productivity. The selected land use must yield the highest value of the possible uses.

General Comments

The analysis of Highest and Best Use is not a standalone examination of the specific subject property and the proposed use as the Rantoul Recycling and Transfer Station. The analysis of Highest and Best Use is applied in conjunction with all other analytical techniques to examine if “the facility is located so as to minimize incompatibility with the character of the surrounding area and to minimize the effect on the value of the surrounding property”. 415 ILCS 5/39.2(a)(iii)

When a property is put to its Highest and Best Use, the real estate being analyzed is found to be the optimum use of the site and it is further concluded that the application will yield the greatest net return to the land for the longest period of time. The concluded Highest and Best Use will contribute the greatest value for the longest period of time and as the optimum use of the property, the concluded application meets the tests of being legally permissible or reasonably probable (consistent with the zoning classification and/or area development patterns), physically possible, financially feasible and maximally productive.

When a property meets the above tests, it has great contributory value to the property itself while also contributing value to the overall location or adjacent/nearby properties. When found to be the Highest and Best Use, the examined application is typically not a source of locational obsolescence thereby supporting that it will not have a negative impact on the surrounding properties or the area, in general. This test contributes to meeting the purpose and intent of Criterion 3.

DISCUSSION OF LEGAL PERMISSIBILITY

According to the Village of Rantoul Zoning Department, the subject site is zoned C-2, "General Commercial District" and several industrial and commercial are currently operating within this district. The intended use of the property as the Rantoul Recycling and Transfer Station is reported to be consistent with facilities currently operating in this zoning classification. See zoning map below.



COMMENTS ON PLANNING IN CHAMPAIGN COUNTY AND THE VILLAGE OF RANTOUL

Within Champaign County and the Village of Rantoul, planning and zoning issues are evaluated on an individual basis with consideration given to the merits of each application. My review of the various zoning ordinances, comprehensive plans and literature suggests that Champaign County and the Village of Rantoul have areas and communities that are unique in character. These areas, communities and districts are designed with consideration given to manmade boundaries, natural boundaries, available infrastructure and growth patterns. Both Champaign County and the Village of Rantoul encourage development to occur in consistent and defined areas so development can take place in an efficient and consistent manner based on available public services, and development patterns. This is demonstrated by the pattern of development in the study area (presented elsewhere) and the area surrounding the study area. Development in the county and municipality is designed, therefore, to respect existing land uses, avoid environmental conflicts and demonstrate good zoning practice.

According to the Village of Rantoul Zoning Ordinance the C-2 General Commercial District is intended to provide a variety of commercial uses meeting the general shopping, service, and business needs of the Village and wider geographic area.

A complete list of permitted and conditional uses in the C-2, "General Commercial District" are retained in the file. For additional information see the Village of Rantoul, Illinois Zoning Ordinance along with the Zoning Map that is located elsewhere.

Based on my review of the current zoning ordinance and the comprehensive plans for Champaign County and the Village of Rantoul, I conclude that the proposed Rantoul Recycling and Transfer Station is a consistent use in this location that meets the standard of being reasonably probable and/or legally permissible.

Based on my inspection of the study area, in which the proposed Rantoul Recycling and Transfer Station is to be located, we conclude that appropriate planning and zoning exists to maximize the value of subject and area property and to minimize negative impacts on surrounding uses. Based on our analysis of the zoning and legal permissibility, we conclude that the subject is "located so as to minimize incompatibility with the character of the surrounding area and to minimize the effect on the value of the surrounding property".

DISCUSSION OF PHYSICAL POSSIBILITY

My review of the CEC Drawings and the Location Standards of the Criterion 2 report prepared by CEC indicate that no physical conditions exist that prohibit the development of the Rantoul Recycling and Transfer Station in accordance with the provided specifications. My review of the above information, my physical inspection of the property, the presence of the current infrastructure allows me to conclude that there are no obvious issues that would cause us to believe that the property cannot be developed in accordance with the proposed plan.

DISCUSSION OF FINANCIAL FEASIBILITY

The test of financial feasibility examines if the intended development of the property will yield the greatest net return to the land for the longest period of time.

My analysis of available market data allows me to conclude that properties in the study area are primarily owner-occupied with few being leased in third-party transactions.

Previously presented maps of the area demonstrate that the subject is located in the greater Champaign-Urbana Market and this area of central Illinois is primarily agricultural in character. The aerial photographs of the study area and individual Planning report prepared by the Lannert Group, Inc. demonstrate that development transitioned over an extended period in a consistent pattern within and adjacent to the study area with uses being commercial, industrial, and hospitality in character. It is noted that development and population centers in central Illinois are spread over a wide geographic area and few sales have occurred when compared to the northern portions of the state.

Information taken from the CoStar Database reports that "the Champaign-Urbana industrial market has a vacancy rate of 8.0% as of the third quarter of 2025. Over the past year, the market's vacancy rate has changed by 2.5%, a result of no net delivered space and -380,000 SF of net absorption.

"Champaign-Urbana's vacancy rate of 8.0% compares to the market's five-year average of 5.1% and the 10-year average of 6.0%.

"The Champaign-Urbana industrial market has roughly 920,000 SF of space listed as available, for an availability rate of 6.2%. As of the second and third quarter of 2025, there is no industrial space under construction in the Champaign-Urbana Market. In comparison, the market has averaged 10,000 SF of under construction inventory over the past 10 years.

"The Champaign-Urbana industrial market contains roughly 15.0 million SF of inventory. The market has approximately 11.5 million SF of logistics inventory, 1.2 million SF of flex inventory, and 2.3 million SF of specialized inventory.

"Market rents in Champaign-Urbana average \$6.80/SF. Rents average around \$6.00/SF for logistics buildings, \$11.70/SF for flex properties, and \$8.20/SF for specialized assets.

"Rents have changed by 1.9% year over year in Champaign-Urbana. Market rents have changed by 2.7% in logistics buildings year over year, 0.9% in flex buildings, and -0.2% in specialized buildings. In Champaign- Urbana, five-year average annual rent growth is 5.3% and 10-year average annual rent growth is 4.4%.

It is noteworthy that uses like the subject rarely sell independent of the business because recycling and transfer stations require specific local approvals, intensive approvals from state and federal governmental agencies, specialized skills to operate, and constant monitoring/regulation programs for development and continued operation. Overall, the intended use of the subject property as the proposed Rantoul Recycling and Transfer Station is an industrial application that is unique in use causing it to be classified as a "special purpose property". The state and local permitting process is extensive, and the siting application carries with it an extensive examination of physical and operational issues. Few Transfer Stations are sold or leased and when a purchase occurs the transaction typically includes the real estate, permits, and may include the ongoing business assets.

Based on my analysis, I conclude that the intended use of the property as the proposed Rantoul Recycling and Transfer Station meets the test of being financially feasible.

DISCUSSION OF MAXIMUM PRODUCTIVITY AND IMPACT ON ADJACENT PROPERTY

Maximum productivity is the examination of the legally permissible, physically possible and financially feasible use that will yield the greatest net return to the land for the longest period of time and have the least impact on the area and adjacent properties.

By definition, an adverse impact on real estate value is manifested through an obvious rejection of property, stigma, elongated marketing period, lower prices and reduced listing prices. An examination of the aerial photographs of the study area, indicates that development at the general interchange of Interstate 57 and West Champaign Avenue has proceeded over an extended period of time with no market evidence of obvious rejection of property, stigma, elongated marketing period, lower prices and reduced listing prices. Our examination of the development in the study area and the general intersection of Interstate 57 and West Champaign Avenue indicates that the intended use as the Rantoul Recycling and Transfer Station meets the test of being the maximally productive use of the site.

Based on our examination of the tests of Highest and Best Use, we conclude that the intended use of the property as the Rantoul Recycling and Transfer Station is the Highest and Best use of the real estate and is located "so as to minimize incompatibility with the character of the surrounding area and to minimize the effect on the value of the surrounding property".

3.7 ANALYSIS OF COMPETITIVE SITES AND ADJACENT PROPERTIES

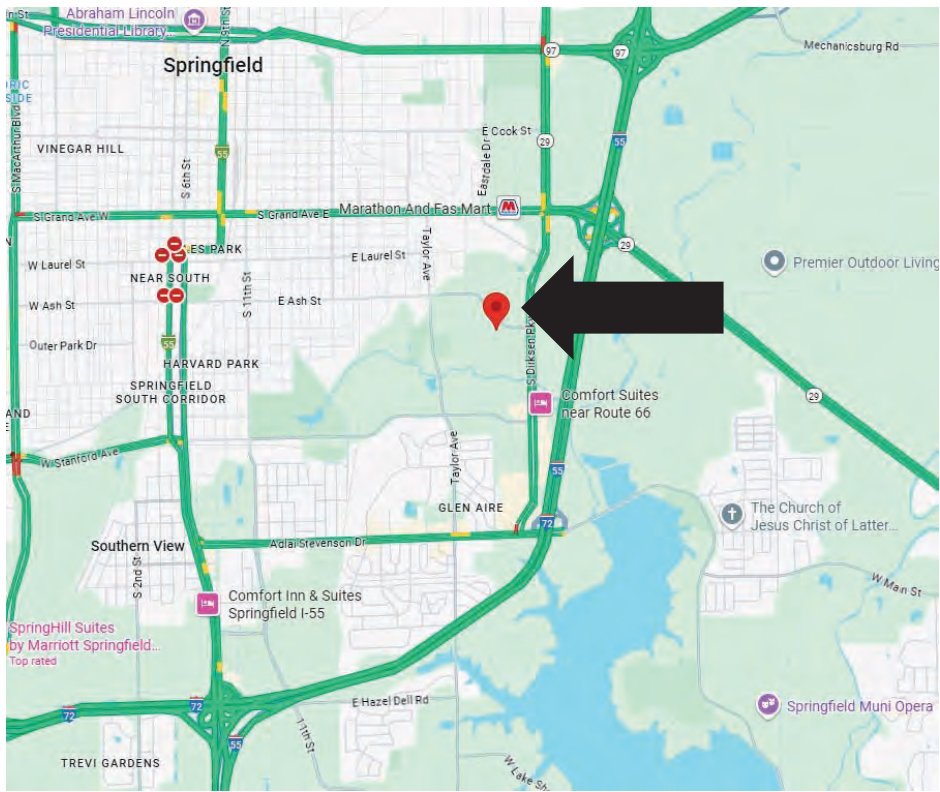
Valuation Concept

To assist in determining if the Rantoul Transfer Station meets the test of Criterion 3 - "the facility is located so as to minimize incompatibility with the character of the surrounding area and to minimize the effect on the value of the surrounding property" per 415 ILCS 5/39.2(a)(iii) we completed an examination of the real estate market, sale activity and value trends located in areas where similar development has occurred.

The impact of the intended use is measured through a "paired sales" analysis or an extensive examination of sale activity that compares pricing patterns, value patterns, listing price patterns and marketing times near to and away from similar applications. The data is examined over an elongated period of time and multiple sales transactions are tested. This is done to ensure the validity of the conclusions formulated. A detrimental condition is typically manifested through obvious rejection of property, stigma, elongated marketing period, lower prices and reduced listing prices.

The analysis that follows is a summary of the locations, data, and conclusions formulated.

Test Site One - Transfer Station – 3000 East Ash Street, Springfield, Illinois



Summary of Property Operations:

The Springfield Transfer Station, operated by Waste Management, is located on an approximately 3.3 acres of land in Springfield, Sangamon County. The common address is 3000 East Ash Street, Springfield. This facility began operations in 1980. Annual Solid Waste Capacity Reports indicate that the site is allowed to accept MSW, recyclables, solid waste and brush. A maximum acceptable amount is not listed.

The Springfield Transfer Station has good proximity to the expressway system and is generally located in a commercial and industrial area. This is similar to the location of the Rantoul Recycling and Transfer Station. We reviewed historical aerial photographs, which demonstrate that increases in the development of commercial and industrial uses have occurred to the north, east and south of the Springfield Transfer Station since approximately 1995. Uses to the west of the Springfield Transfer Station consistently remained residential. The development in the vicinity of the Springfield Transfer Station has followed a similar pattern as the area surrounding the proposed Rantoul Recycling and Transfer Station.

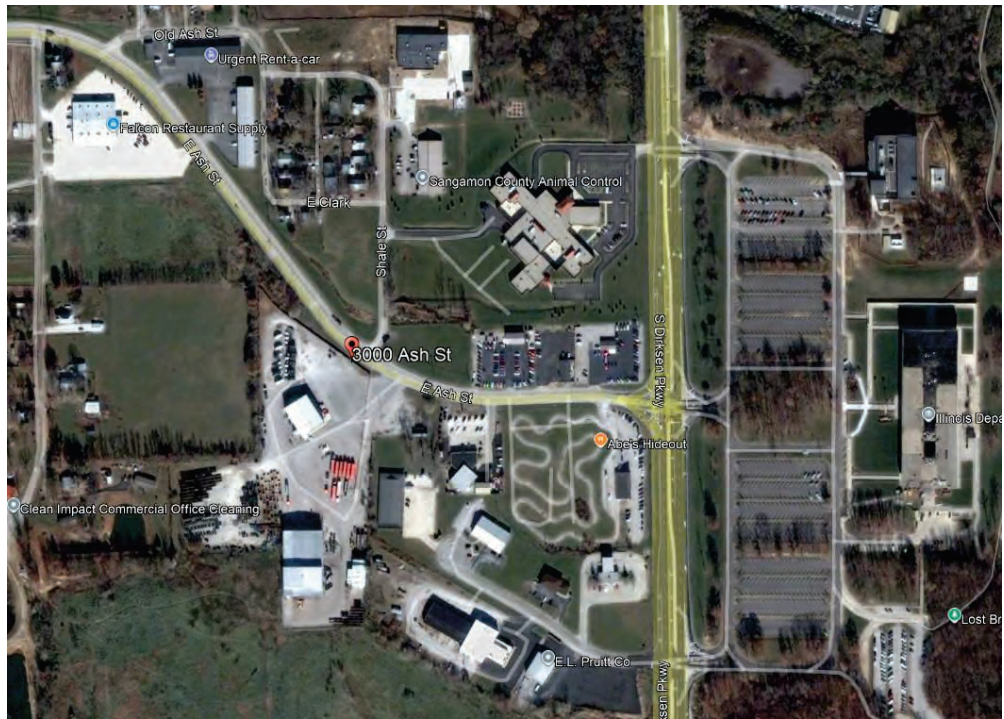
The following photo array identifies the development patterns surrounding the Springfield Transfer Station located at 3000 East Ash Street, Springfield, Illinois.

HISTORIC PHOTOGRAPHS – 3000 EAST ASH STREET – SPRINGFIELD, ILLINOIS

1995



2005



HISTORIC PHOTOGRAPHS – 3000 EAST ASH STREET – SPRINGFIELD, ILLINOIS

2023



2025



APPLIED ANALYSIS

Based on my inspection and database information, the area surrounding 3000 East Ash Street, Springfield, Illinois is generally improved with industrial applications, retail development and open space that is used as agricultural land. The property is located with positive access to primary roadways and is under 1.0 mile from access to Interstate 55.

We examined market activity for properties located within .75 miles of the transfer station and compared the activity with data that is located beyond .75 miles but within 1.50 miles of the transfer station. The data reviewed was taken from the CoStar Database, realtor websites and the Multiple Listing Service. The search harvested data over a period of 10 years prior to the date of this study. Primary activity surrounding this location came from the sale of industrial and retail improvements. These improvements and uses are similar to those located near the proposed Rantoul Transfer Station.

Sale Activity Within .75 Miles of 3000 East Ash Street, Springfield, Illinois

This search indicates that twenty-five (25) industrial and retail transactions occurred within .75 miles of the transfer station located at 3000 East Ash Street, Springfield, Illinois between August of 2015 and April 2025.

The following is a summary of the data considered. The data indicates a consistent pattern of sales that are similar to the industrial and retail uses found in the overall Springfield market. The data did not yield any indication of obvious rejection of property, stigma, elongated marketing period, lower prices and reduced listing prices. Prices paid appeared to reflect typical market activity and variances.

Property Address	Property City	Sale Date	Property Type	Sale Price	Building SF	Price Per SF
3051 Reilly Dr	Springfield	4/14/2025	Retail	\$273,000	3,242	\$84.21
2690 S Dirksen Pky	Springfield	4/3/2025	Retail	\$350,000	4,900	\$71.43
3201 Horizon	Springfield	12/27/2024	Retail	\$4,700,000	6,163	\$762.62
2600 Sunrise Dr	Springfield	12/14/2023	Retail	\$2,375,000	4,480	\$530.13
1549 S Dirksen Pky	Springfield	11/29/2022	Retail	\$380,000	4,261	\$89.18
1501 S Dirksen Pky	Springfield	4/25/2022	Retail	\$1,438,900	56,160	\$25.62
3151 Horizon	Springfield	2/10/2022	Retail	\$600,000	7,500	\$80.00
3051 Reilly Dr	Springfield	9/8/2021	Retail	\$200,000	3,242	\$61.69
3105 Dotmar Ave	Springfield	7/23/2021	Industrial	\$807,500	13,493	\$59.85
2251 S Dirksen Pky	Springfield	7/16/2020	Retail	\$200,000	968	\$206.61
2215 Groth	Springfield	5/15/2020	Industrial	\$267,000	6,000	\$44.50
3201 Horizon	Springfield	3/26/2020	Retail	\$3,750,000	6,163	\$608.47
3051 Reilly Dr	Springfield	10/30/2019	Retail	\$215,000	3,242	\$66.32
3201 Horizon	Springfield	10/14/2019	Retail	\$590,000	6,163	\$95.73
1600 Taylor Ave	Springfield	7/29/2019	Industrial	\$656,683	9,500	\$69.12
2554 Sunrise Dr	Springfield	1/1/2019	Retail	\$2,096,825	5,125	\$409.14
2500 Sunrise Dr	Springfield	12/1/2018	Retail	\$2,096,825	5,581	\$375.71
2600 Sunrise Dr	Springfield	10/31/2018	Retail	\$1,600,000	4,480	\$357.14
3040 E Ash St	Springfield	12/29/2017	Retail	\$2,212,500	11,586	\$190.96
3241 Horizon Dr	Springfield	12/21/2017	Retail	\$2,700,000	4,262	\$633.51
1501 S Dirksen Pky	Springfield	1/4/2017	Retail	\$2,375,000	56,160	\$42.29
2640 E Ash St	Springfield	12/9/2016	Industrial	\$506,000	18,126	\$27.92
3115 Dotmar Ave	Springfield	5/11/2016	Industrial	\$680,000	5,760	\$118.06
3051 Reilly Dr	Springfield	8/28/2015	Retail	\$215,000	3,242	\$66.32
3010 E Ash St	Springfield	8/18/2015	Retail	\$322,000	8,650	\$37.23

Sale Activity – From 0.75 miles to 1.50 Miles of 3000 East Ash Street, Springfield, Illinois

To further test the impact of the transfer station we researched sales that are beyond .75 miles while being within 1.50 miles of the transfer station. The search yielded eighteen (18) industrial and retail transactions that occurred between August of 2016 and October of 2024. The examination of the data below indicates that industrial and retail properties located away from the Springfield transfer station exhibited similar price patterns as those located near the property at 3000 East Ash Street. There was no indication of obvious rejection of property, stigma, elongated marketing period, lower prices and reduced listing prices. Prices paid reflected typical market activity and variances.

Property Address	Property City	Sale Date	Property Typ	Sale Price	Building SF	Price Per SF
3009 Singer Ave	Springfield	1/28/2020	Industrial	\$235,000	12,500	\$18.80
2951 Stanton St	Springfield	8/25/2016	Industrial	\$280,000	8,200	\$34.15
3009 Singer Ave	Springfield	10/1/2015	Industrial	\$300,000	12,500	\$24.00
2301 Adlai Stevenson Dr	Springfield	10/30/2024	Retail	\$450,000	12,480	\$36.06
2901 S Grand Ave E	Springfield	2/23/2024	Retail	\$269,326	3,948	\$68.22
1221-1241 Knoll Pointe Pl	Springfield	12/18/2023	Retail	\$1,217,240	9,026	\$134.86
3219 Lake Plaza Dr	Springfield	3/2/2023	Retail	\$120,000	1,273	\$94.27
2501 Stevenson Dr	Springfield	3/4/2022	Retail	\$1,157,000	5,167	\$223.92
2501 Stevenson Dr	Springfield	2/18/2022	Retail	\$900,000	5,167	\$174.18
3120 Stanton St	Springfield	2/16/2022	Retail	\$150,000	8,400	\$17.86
3117 Wide Track Dr	Springfield	10/14/2021	Retail	\$3,214,000	16,006	\$200.80
3117 Wide Track Dr	Springfield	8/13/2021	Retail	\$2,250,000	16,006	\$140.57
1221-1241 Knoll Pointe Pl	Springfield	6/30/2021	Retail	\$1,203,486	9,026	\$133.34
2905 Adlai Stevenson Dr	Springfield	4/21/2021	Retail	\$1,953,250	2,079	\$939.51
824 Commercial Ave	Springfield	4/3/2019	Retail	\$254,000	13,278	\$19.13
2801 S Grand Ave E	Springfield	11/13/2018	Retail	\$1,550,000	2,426	\$638.91
711 S Dirksen Pky	Springfield	1/24/2018	Retail	\$3,727,166	18,744	\$198.85
1401 S Dirksen	Springfield	10/25/2017	Retail	\$285,000	4,500	\$63.33

ANALYSIS AND CONCLUSION – SPRINGFIELD TRANSFER STATION

In the area within 0.75 miles of 3000 East Ash Street, five (5) industrial transactions involving properties having between 6,000 and 18,126 square feet of building area sold over the past ten (10) years. These properties had unit prices of \$27.92 to \$118.06 per square foot of building area, including land. During this same period in this geographic location, twenty (20) retail properties having from 968 to 56,160 square feet of building area sold. These properties transferred at prices ranging from \$37.23 to \$633.51 per square foot of building area, including land.

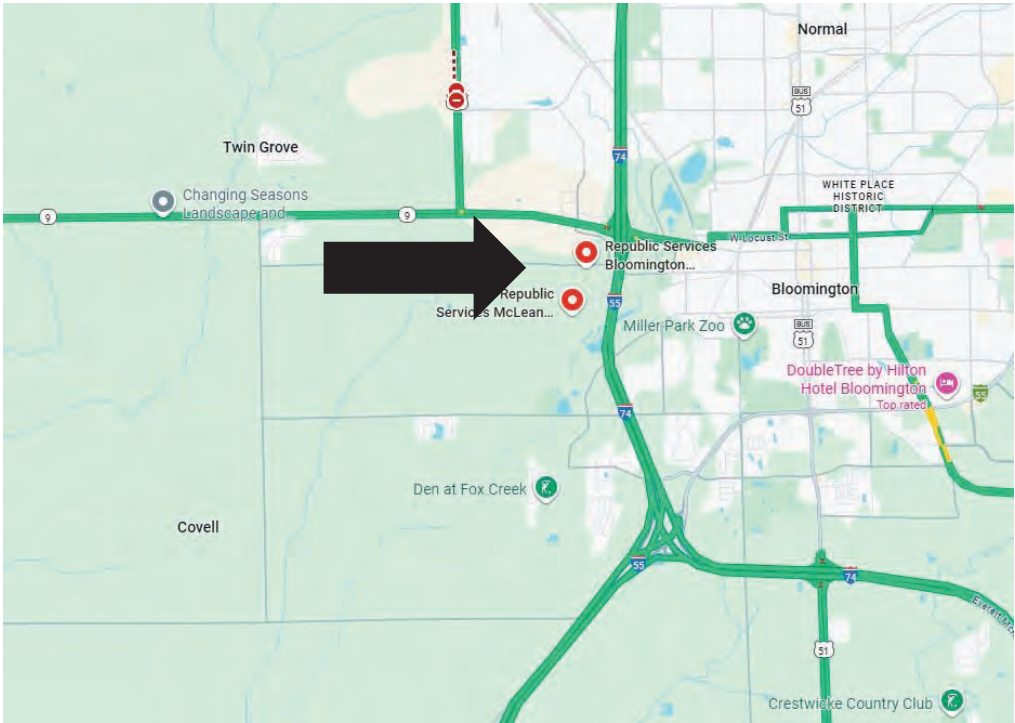
In the geographic area that is over 0.75 miles from but within 1.50 miles of 3000 East Ash Street, there were three (3) industrial transactions, having between 8,200 and 12,500 square feet of building area that sold over the past ten (10) years. These properties had unit pricing patterns of \$18.80 to \$34.15 per square foot of building area, including land. During this same period and geographic location, fifteen (15) retail properties having from 3,948 to 18,744 square feet of building area sold. These properties transferred at prices ranging from \$19.13 to \$939.51 per square foot of building area, including land.

The data supports the conclusion that industrial and retail sales in the geographic area near and away from 3000 East Ash Street, Springfield, Illinois have been generally stable and similar to one another. We found no indication of obvious rejection of property, stigma, elongated marketing period, lower prices and reduced listing prices. Prices paid reflected typical market activity and variances.

CONCLUSION

We conclude that the transfer station, located at 3000 East Ash Street, Springfield, Illinois had no impact on surrounding property values.

Test Site Two - Transfer Station – 2112 West Washington Ave. Bloomington, Illinois



Summary of Property Operations:

The Bloomington Transfer Station, operated by American Disposal Services, Inc. is located on site having approximately 7.0 acres. The common address is 2112 Washington Road, Bloomington, McLean County, Illinois. This transfer station began operation in 1978 and is a subsidiary of Republic Services. The annual solid waste capacity reports indicate that the site accepts municipal waste, recyclables, and medical waste. A maximum acceptable amount is not listed.

The Bloomington Transfer Station is bordered to the south by the closed ADS/McLean County Landfill and related property, to the west by agricultural uses, to the east by a commercial/ industrial uses. The area immediately to the north of this property is residential in character. A residential subdivision is also located less than 0.25 miles to the northeast of the Bloomington Transfer Station. We reviewed historical aerial photographs, which demonstrate that increases in the development of residential properties to the northeast of the Bloomington Transfer Station have occurred since approximately 1995 and industrial development occurred from the west toward the transfer station. The use and occupancy of the residential properties immediately north of the Bloomington Transfer Station have remained consistent over time and are considered to be typical of other portions of the Bloomington Illinois Market.

The following photo array identifies the development patterns surrounding the Bloomington Transfer Station located at 2112 Washington Road, Bloomington, Illinois.

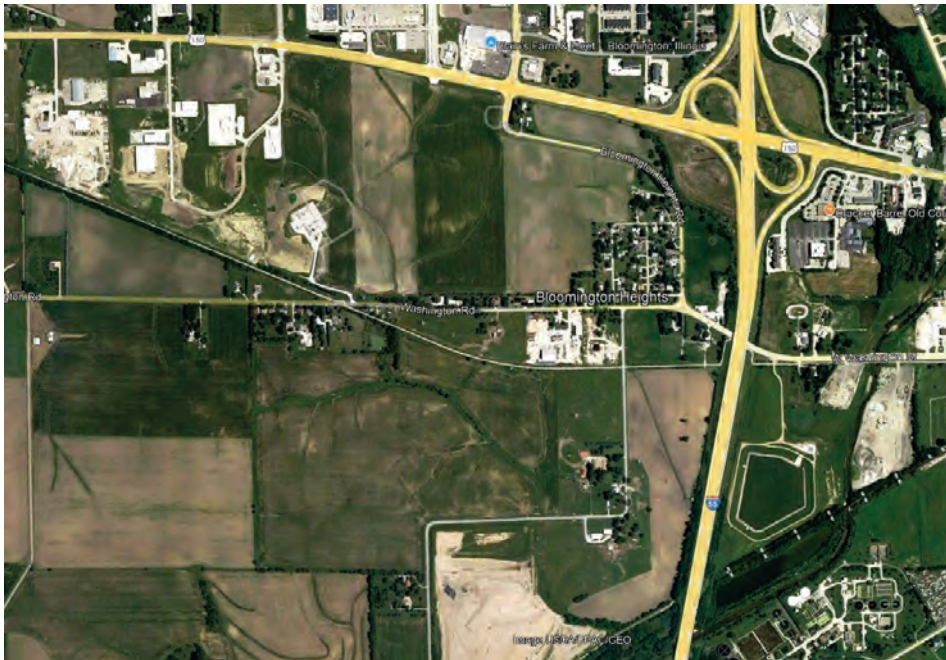
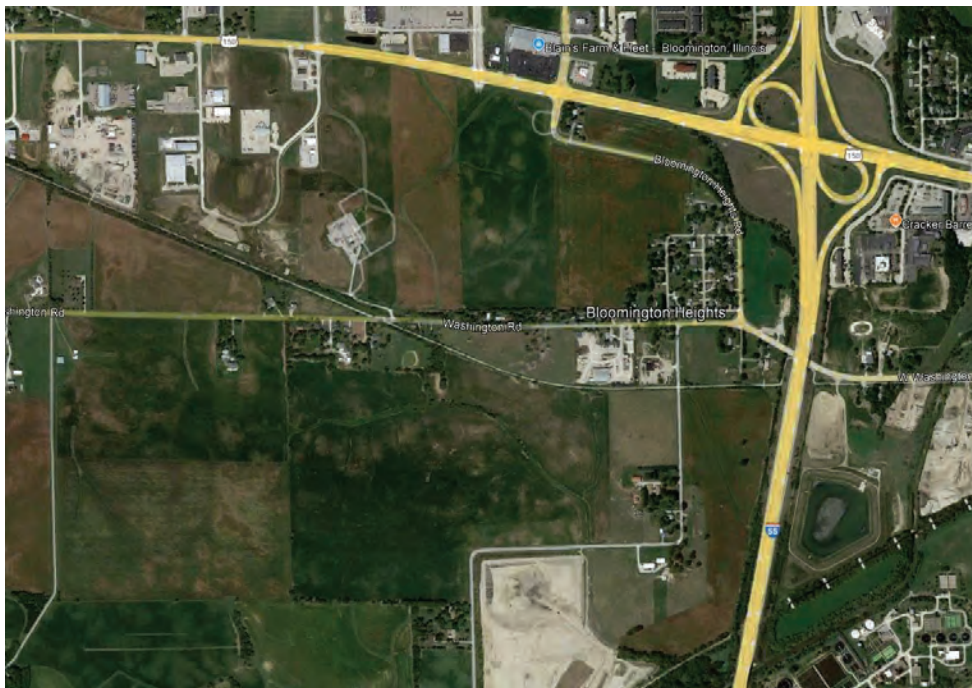
HISTORIC PHOTOGRAPHS – 2112 WASHINGTON AVE. BLOOMINGTON, ILLINOIS

1995



2005



HISTORIC PHOTOGRAPHS – 2112 WASHINGTON AVE. BLOOMINGTON, ILLINOIS**2009****2012**

HISTORIC PHOTOGRAPHS – 2112 WASHINGTON AVE. BLOOMINGTON, ILLINOIS

2019



2025



APPLIED ANALYSIS

Based on my inspection and database information, the area surrounding the Bloomington Transfer Station is property is primarily residential and agricultural in character. It is noteworthy that the ariel photographs show industrial applications located to the west on the north side of Washington Avenue with a development pattern that is moving east toward the transfer station. The location at 2112 West Washington Avenue, Bloomington, Illinois is similar to the Rantoul Transfer Station with respect to primary roadways and this property is under 2.0 miles from access to Interstate 55.

We examined market activity for properties located within .50 miles of the transfer station and compared the activity with date that is located beyond .50 miles but within 1.00 mile of the transfer station. The search was conducted using the Multiple Listing Service (MLS), realtor websites and public record.

Sale Activity Within .50 Miles of 2112 Washington Street, Bloomington, Illinois

The search indicates that eight (8) residential transactions having multiple transfers occurred within .50 mile of the property located at 2112 Washington Street, Bloomington, Illinois. Public record and the MLS database indicated that many of the residential units are or have been owned by the same entities for multiple years. The data did not yield any indication of obvious rejection of property, stigma, elongated marketing period, lower prices and reduced listing prices. Prices paid appeared to reflect typical market activity and variances.

**Sales and Resale Data
Properties Near and Away From
2112 Washington Avenue
Bloomington, Illinois**

Properties Within .50 Miles of the Republic Services Bloomington Transfer Station

Address	Sale Date	Sale Price	Price Change	Percent Change	Months	
106 Constantine	June 21, 2004	\$116,750				
	July 27, 2007	\$131,000	\$14,250.00	12.21%	37	0.33%
	April 28, 2017	\$125,000	-\$6,000.00	-4.58%	117	-0.04%
109 Constantine	October 27, 2003	\$105,000				
	January 25, 2013	\$92,000	-\$13,000.00	-12.38%	111	-0.11%
112 Bloomington Heights Rd	April 29, 2010	\$111,700				
	December 10, 2021	\$139,900	\$28,200.00	25.25%	139	0.18%
114 Bloomington Heights Rd	November 9, 2004	\$43,000				
	February 15, 2006	\$58,000	\$15,000.00	34.88%	15	2.33%
120 Bloomington Heights Rd	December 22, 2004	\$25,000				
	May 10, 2005	\$54,900	\$29,900.00	119.60%	5	23.92%
2001 Interurban	May 31, 2002	\$80,000				
	November 1, 2011	\$73,000	-\$7,000.00	-8.75%	113	-0.08%
2003 Interurban	June 30, 2010	\$145,800				
	May 3, 2021	\$159,900	\$14,100.00	9.67%	130	0.07%
2025 Interurban	January 25, 2002	\$83,000				
	January 30, 2012	\$80,000	-\$3,000.00	-3.61%	120	-0.03%

Sale Activity Between 0.50-and 1.0- Miles of 2112 Washington Street, Bloomington, Illinois

To further test the impact of the transfer station we searched data that is beyond .50 miles but within 1.00 miles of the transfer station. The data indicates that eleven (11) residential transactions sold and resold in this geographic area. There was no indication of obvious rejection of property, stigma, elongated marketing period, lower prices and reduced listing prices. Prices paid reflected typical market activity and variances.

Sales and Resale Data Properties Near and Away From 2112 Washington Avenue Bloomington, Illinois

Properties Within 1.0 Miles of the Republic Services Bloomington Transfer Station

Properties within 1 Mile

Address	Sale Date	Sale Price	Price Change	Percent Change	Months	
704 Marshall Lane	September 26, 2002	\$75,000				
	September 3, 2013	\$129,500	\$54,500.00	72.67%	131	0.55%
	September 13, 2021	\$145,000	\$15,500.00	11.97%	96	0.12%
710 Brad Street	June 8, 2007	\$111,000				
	May 11, 2012	\$122,000	\$11,000.00	9.91%	59	0.17%
	March 11, 2015	\$122,000	\$0.00	0.00%	34	0.00%
	October 29, 2020	\$125,000	\$3,000.00	2.46%	68	0.04%
924 Maple Hill Road	October 18, 2004	\$110,000				
	September 10, 2018	\$127,500	\$17,500.00	15.91%	167	0.10%
1018 Maple Hill Road	December 15, 2001	\$117,500				
	June 22, 2004	\$139,250	\$21,750.00	18.51%	30	0.62%
1020 Maple Hill Road	July 1, 2005	\$110,900				
	November 28, 2008	\$85,500	-\$25,400.00	-22.90%	41	-0.56%
	September 23, 2015	\$149,500	\$64,000.00	74.85%	82	0.91%
1709 W. Indiana	May 19, 2003	\$51,000				
	May 10, 2019	\$49,000	-\$2,000.00	-3.92%	192	-0.02%
1713 Indiana	December 8, 2009	\$30,000				
	June 16, 2010	\$99,900	\$69,900.00	233.00%	6	38.83%
1719 Indiana Street	June 17, 2020	\$40,000				
	August 23, 2023	\$135,000	\$95,000.00	237.50%	38	6.25%
1720 Indiana Street	August 30, 2000	\$63,900				
	February 21, 2003	\$46,000	-\$17,900.00	-28.01%	30	-0.93%
	August 29, 2022	\$125,000	\$79,000.00	171.74%	234	0.73%
1723 Indiana	December 4, 2017	\$45,000				
	August 28, 2018	\$74,000	\$29,000.00	64.44%	9	7.16%
2312 Washington Street	September 27, 2007	\$154,000				
	November 26, 2013	\$171,000	\$17,000.00	11.04%	74	0.15%
	June 22, 2020	\$192,000	\$21,000.00	12.28%	79	0.16%

ANALYSIS AND CONCLUSION – BLOOMINGTON TRANSFER STATION

In the area that is within .50 miles of the transfer station, the data indicates that eight (8) residential transactions occurred. A comparison of the data indicates that the change in price points over time changed from negative 12.83 percent to positive 119.60 percent. The transactions ranged in price from \$25,000 to \$159,900.

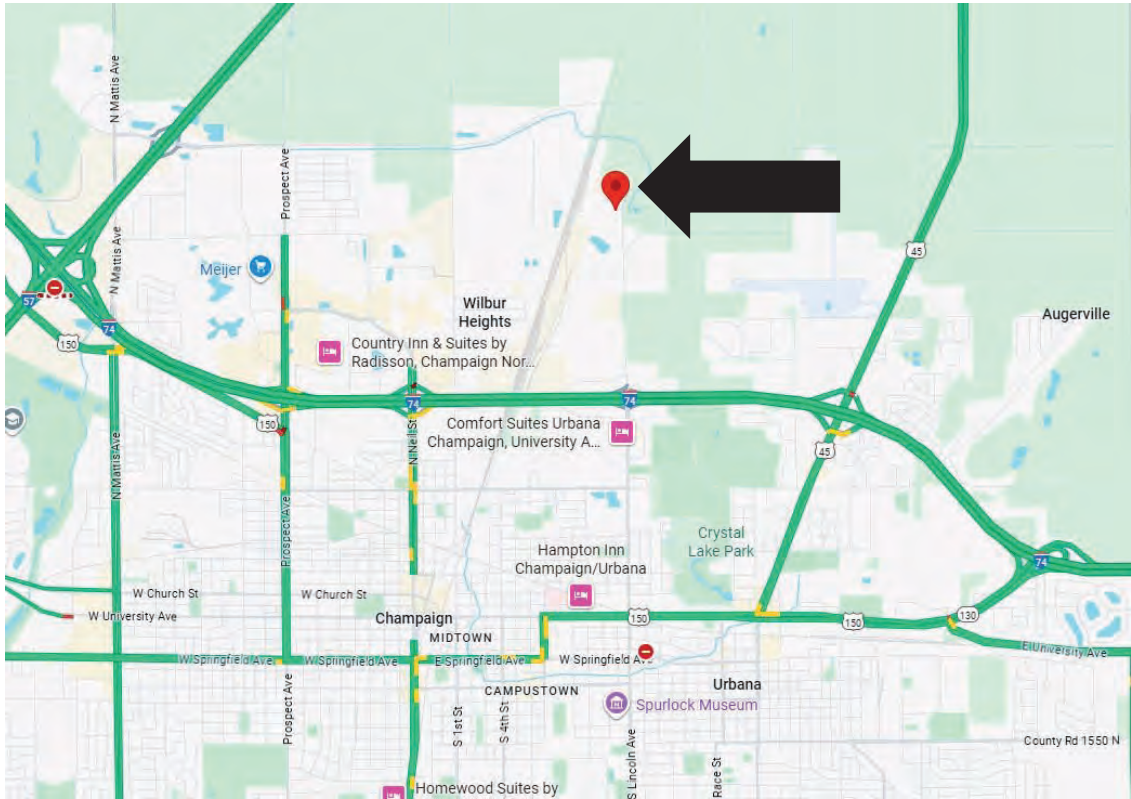
In the geographic area over 0.50 miles from but within 1.0-mile of 2112 Washington Street, the data indicates that eleven (11) residential transactions occurred during the study period. A comparison of the data indicates that the change in price over time ranged from negative 28.01 percent to positive 237.50 percent. The transactions ranged in price from \$30,000 to \$192,000.

The data supports the conclusion that residential sales located over 0.50 mile of and within 1.0-mile of 2112 Washington Street, Bloomington, Illinois have been generally stable and that property transfers have been typical of the area and similar to one another. We found no indication of obvious rejection of property, stigma, elongated marketing period, lower prices and reduced listing prices. Prices paid reflected typical market activity and variances.

CONCLUSION

We conclude that the transfer station, located at 2112 Washington Street, Bloomington Illinois had no impact on surrounding property values.

Test Site Three - Transfer Station – 910 Saline Court, Urbana, Illinois



Summary of Property Operations:

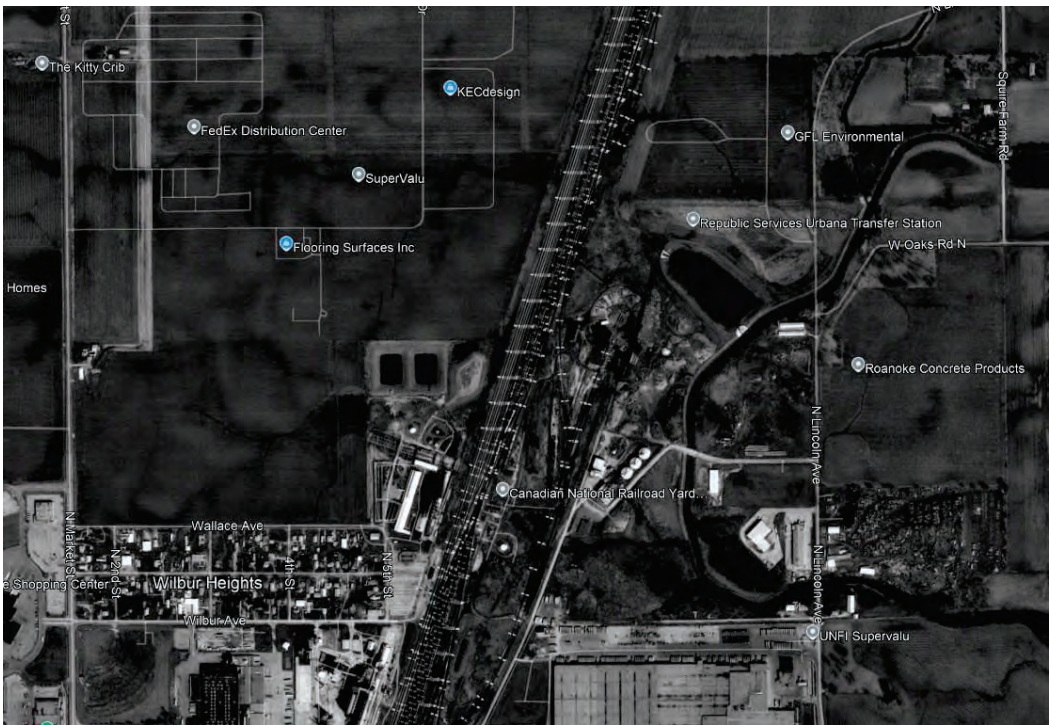
The Urbana Transfer Station, operated as the Central Waste Services and Recycling Facility [Illinois EPA ID# 0191055163], is located on a site having approximately 11.3-acres. The property is located in Urbana, Champaign County with a common address of 921 Saline Court, Urbana, 61802. The property is known as The Urbana Transfer Station which began operation in 2003. The property is owned by Republic Services. Annual IEPA solid waste capacity reports indicate that the site accepts municipal waste and recyclables. A maximum acceptable amount is not listed.

The Urbana Transfer Station is located in an industrial area and nearby uses include the GFL Henson Urbana General Construction or Demolition Debris Recycling Facility. We reviewed historical aerial photographs, which demonstrate consistent industrial uses since at least 1993.

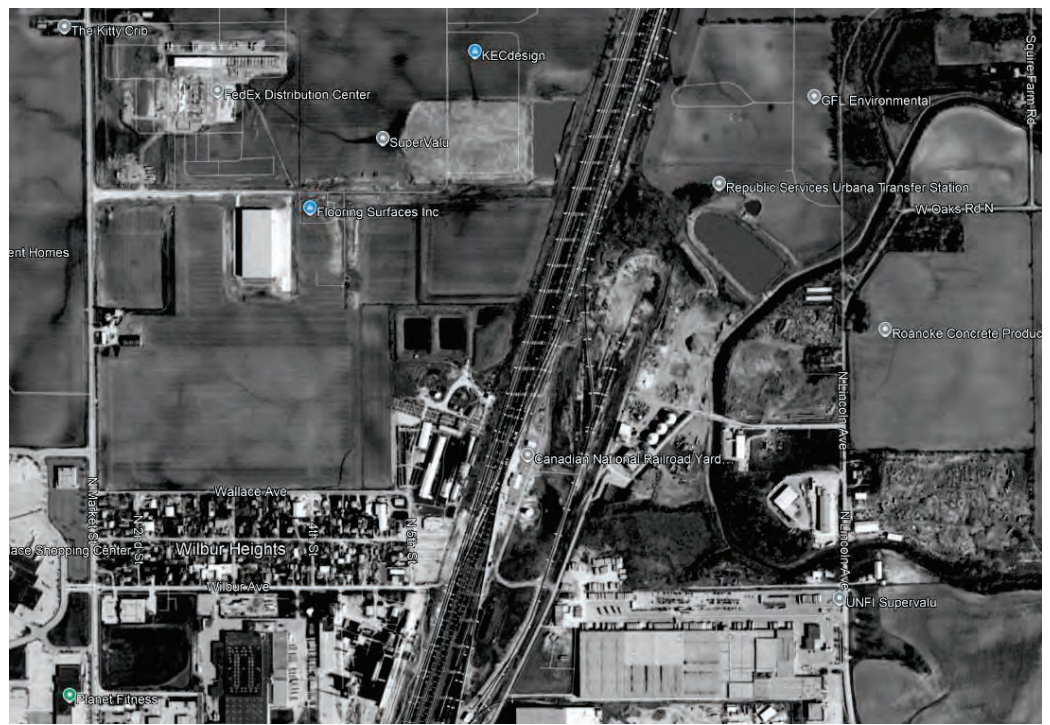
The following photo array identifies the development patterns surrounding the Urbana Transfer Station located at 910 Saline Court, Urbana, Illinois.

HISTORIC PHOTOGRAPHS – 910 SALINE COURT, URBANA, LLINOIS

1993



2003



HISTORIC PHOTOGRAPHS – 910 SALINE COURT, URBANA, LLINOIS

2005

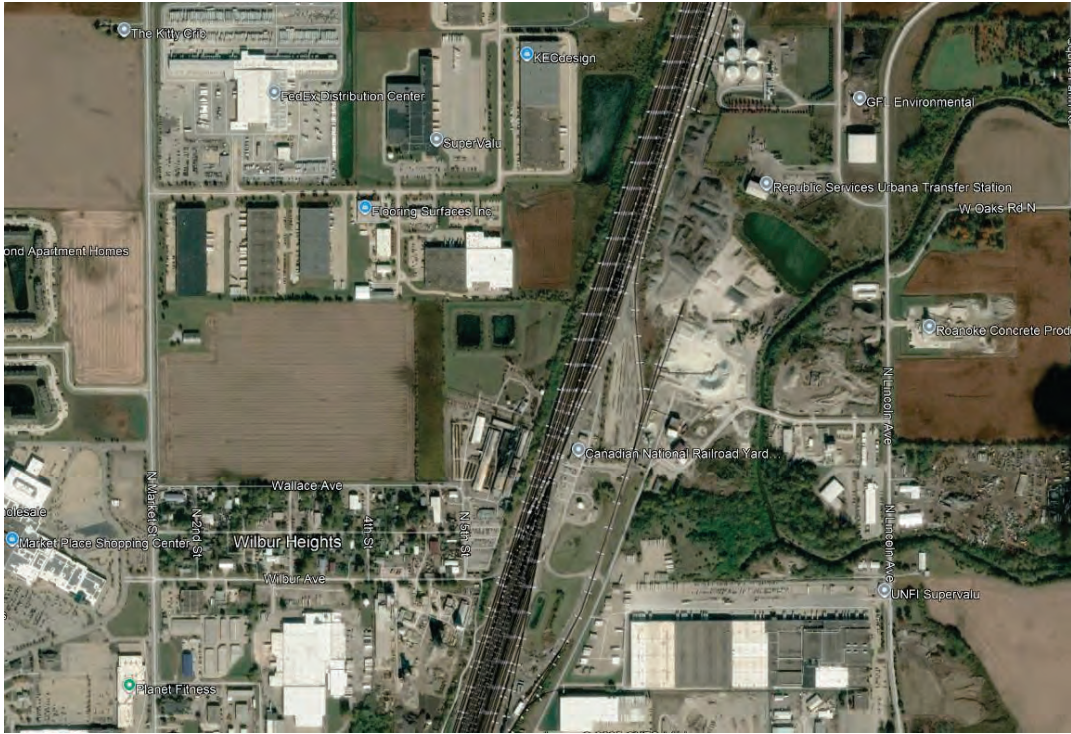


2009

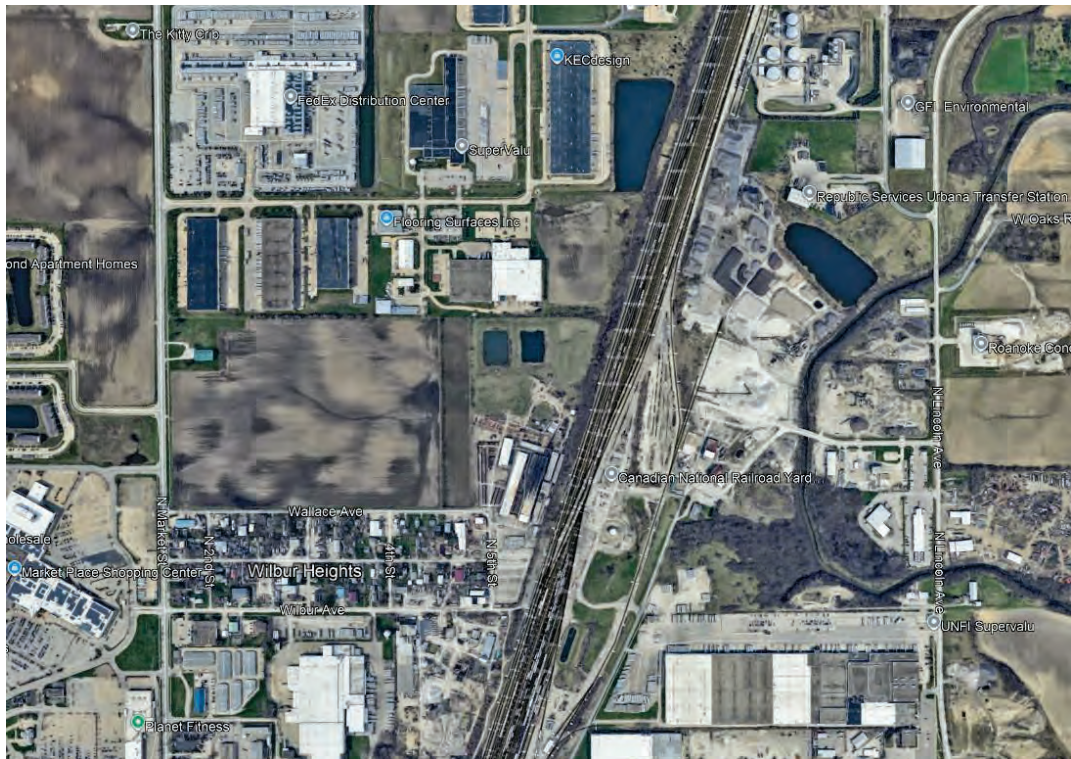


HISTORIC PHOTOGRAPHS – 910 SALINE COURT, URBANA, LLINOIS

2020



2025



APPLIED ANALYSIS

Based on my inspection and database information, the area surrounding the property located at 910 Saline Court, Urbana, Illinois is improved with industrial applications and open space that is used as agricultural land. The property is similar to the subject with respect to access to primary roadways and is under 5.0 miles from entrances to Interstates 74 and 55. It is noteworthy that the area immediately surrounding the transfer station (910 Saline Court) is heavy industrial in character and a railroad right of way to the west separates the heavy industrial uses from lighter industrial applications and newer development. Due to the size of the uses and industrial intensity of the area surrounding the transfer station there has been limited development in the area. The area to the west of the right of way appears to demonstrate consistent development with industrial applications.

We examined market activity for properties located within .75 of the transfer station and compared this activity with data that is located beyond .75 miles and within 1.50 miles of 910 Saline Court, Urbana, Illinois. The search was conducted using the CoStar Database, realtor websites, the Multiple Listing Service and public record. The search harvested data for a period of 10 years prior to the date of this study. Primary activity surrounding this location came from the sale of industrial improvements. These improvements and uses are similar to the uses that are located near the Rantoul Transfer Station.

Sale Activity Within .75 Miles of 910 Saline Court, Urbana, Illinois

The search indicates that four (4) industrial transactions occurred within .75 miles of the property located at 910 Saline Court, Urbana, Illinois during the study period.

The following summary of the data considered. The data indicates a consistent pattern of sales that are similar to the industrial uses found in the overall Urbana market. The data did not yield any indication of obvious rejection of property, stigma, elongated marketing period, lower prices and reduced listing prices. Prices paid appeared to reflect typical market activity and variances.

Property Address	Property City	Sale Date	Property Type	Sale Price	Building SF	Price Per SF	Land Area SF	Land Area AC
2912 N Oak St	Urbana	3/21/2025	Industrial	\$2,196,500	16,416	\$133.80	2,324,518	53.36
2801 Gemini	Champaign	10/19/2021	Industrial	\$1,537,500	9,024	\$170.38	54,014	1.24
3001 N Lincoln Ave	Urbana	5/26/2015	Industrial	\$310,000	13,192	\$23.50	84,054	1.93
601 Mercury Dr	Champaign	10/30/2014	Industrial	\$10,800,000	204,934	\$52.70	1,028,016	23.60

Sale Activity – From 0.75 miles to 1.50 Miles of 910 Saline Court, Urbana, Illinois

To further test the impact of the transfer station we researched sales that are beyond .75 miles of the transfer station and within 1.50 miles of the transfer station. The data yielded sixteen (16) industrial transactions occurred in this area during the study period. The examination of the data below indicates that industrial properties located away from the Urbana Transfer Station exhibited similar price patterns as those located near the property at 910 Saline Court. There was no indication of obvious rejection of property, stigma, elongated marketing period, lower prices and reduced listing prices. Prices paid reflected typical market activity and variances.

Property Address	Property City	Sale Date	Property Type	Sale Price	Building SF	Price Per SF	Land Area SF	Land Area AC
2401 Willow Rd	Urbana	11/1/2022	Industrial	\$6,676,000	120,875	\$55.23	606,522	13.92
2508 N Shore Dr	Urbana	5/30/2022	Industrial	\$300,000	4,300	\$69.77	24,565	0.56
1812 Federal Dr	Urbana	2/28/2022	Industrial	\$960,000	20,399	\$47.06	65,327	1.50
2007 N Federal Dr	Urbana	9/8/2021	Industrial	\$2,300,000	25,850	\$88.97	187,744	4.31
2500 N Shore Dr	Urbana	5/29/2020	Industrial	\$325,000	7,200	\$45.14	41,818	0.96
1807 N Federal Dr	Urbana	3/31/2020	Industrial	\$672,000	9,747	\$68.94	65,340	1.50
308 E Anthony Dr	Urbana	7/30/2019	Industrial	\$900,000	29,460	\$30.55	94,656	2.17
1908 N Linview Ave	Urbana	5/31/2019	Industrial	\$1,252,500	20,868	\$60.02	40,075	0.92
1406 Cardinal Ct	Urbana	12/10/2018	Industrial	\$200,000	30,307	\$6.60	162,043	3.72
1201 W Kenyon Rd	Urbana	11/21/2018	Industrial	\$650,000	12,000	\$54.17	3,485	0.08
2611 N Lincoln Ave	Urbana	5/1/2018	Industrial	\$50,872,000	884,366	\$57.52	2,741,231	62.93
1812 Federal Dr	Urbana	12/15/2017	Industrial	\$925,000	20,399	\$45.34	65,327	1.50
1812 Federal Dr	Urbana	11/1/2017	Industrial	\$500,100	20,399	\$24.52	65,327	1.50
1600 N Oak St	Champaign	3/2/2017	Industrial	\$725,000	20,445	\$35.46	98,010	2.25
2509 N Shore Dr	Urbana	5/5/2016	Industrial	\$260,000	8,000	\$32.50	45,302	1.04
2007 N Federal Dr	Urbana	10/16/2015	Industrial	\$2,514,500	25,850	\$97.27	187,744	4.31

ANALYSIS – URBANA TRANSFER STATION

In the area within 0.75 miles of 910 Saline Court, four (4) industrial transactions sold over the past ten (10) years. These properties had unit pricing patterns of \$23.50 to \$170.38 per square foot of building area, including land. The properties appeared to be somewhat specialized, and no resales were reported. This is expected given the area development patterns with heavy industrial applications.

In the geographic area that is over 0.75 miles from but within 1.50 miles of 910 Saline Court, the data indicates that sixteen (16) industrial transactions sold and, in several instances, resold over the past ten (10) years. These properties had unit pricing patterns of \$6.60 to \$97.27 per square foot of building area, including land.

The data supports the conclusion that industrial sales in the geographic area beyond 0.75 miles but within 1.50 miles of the property located at 910 Saline Court, Urbana, Illinois have been generally stable and similar to those near the transfer station. Published data and public record does not support significant variations in marketing periods, list prices, or sale prices when the two data sets are compared. We found no indication of obvious rejection of property, stigma, elongated marketing period, lower prices and reduced listing prices. Prices paid reflected typical market activity and variances.

CONCLUSION

We conclude that the transfer station, located at 910 Saline Court, Urbana, Illinois had no impact on surrounding property values.

3.8 CONCLUSIONS

Based on the above study, APC concludes that the development of the subject site, with the Rantoul Recycling and Transfer Station, meets the second portion of Illinois Environmental Protection Act, 415 ILCS 5/39.2 (a) (iii), commonly referred to as "Criterion 3" that requires the applicant for a transfer station demonstrate that "the facility is located so as to minimize incompatibility with the character of the surrounding area and to minimize the effect on the value of the surrounding property". A summary of the conclusions formulated follows

- The subject property is located in an area of historic and current recycling, industrial and commercial use and development.
- The area within which the subject site is located has man-made boundaries that isolate and buffer the area. This effectively minimizes any influences the uses in this industrial and commercial area (including the development of the Proposed Rantoul Recycling and Transfer Station) have on properties located outside of the area, including the properties within 2,500 feet of the subject.
- The location of the subject property has sufficient access to primary roadways of Champaign Avenue, Murray Road and Interstate 57 to accommodate the development of the Rantoul Recycling and Transfer Station.
- Historical and current industrial and commercial development activity in the area includes trucking uses that are similar to the intended use of the subject property. The proposed use is very consistent with the existing uses in the area.
- Both Champaign County and the Village of Rantoul encourage development to occur in consistent and defined areas and the proposed use is consistent with zoning classifications in the area.
- Because the proposed use is consistent with and conforms to the current and planned uses in the subject area, the impact the proposed use will have on adjacent and nearby property values is minimized.
- The physical characteristics of the subject property, in the existing configuration and condition, are an underutilization of the property. The intended development, with the Rantoul Recycling and Transfer Station, will include significant infrastructure and improvements that will be an enhancement to the property.
- The infrastructure improvements to the subject site will result in secondary improvements (e.g., improved storm water management and West Champaign Avenue Service Road) and will improve the subject area.
- Market data demonstrates that users in the study area tend to be long term occupants of properties. The proposed use will ensure a long-term stable use of this property.

3.8 CONCLUSIONS (CONT'D)

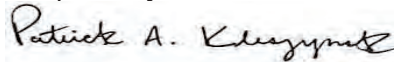
- Development with the Rantoul Recycling and Transfer Station is the Highest and Best Use of the subject property, as improved and will not be a source of locational obsolescence (Detrimental Condition) in the area.
- Development of property in accordance with its Highest and Best Use has a positive impact on surrounding property values and assists to minimize the effect on the value of surrounding property, including the property values within 2,500 feet of the subject.
- The examination of the impact of a transfer station and recycling facilities in Springfield, Bloomington and Urbana, Illinois allows me to conclude that the Rantoul Recycling and Transfer Station, as improved, will not be a source of locational obsolescence in the subject location.
- **Based on our analysis, APC concludes that the Proposed Rantoul Recycling and Transfer Station is located “so as to minimize incompatibility with the character of the surrounding area and to minimize the effect on the value of the surrounding property” and meets the standards of “Criterion 3”.**

3.9 CERTIFICATION

I certify that, to the best of my knowledge and belief:

- The statements of fact contained in this report are true and correct.
- The reported analyses, opinions, and conclusions are limited only by the reported assumptions and limiting conditions and are my personal, impartial, and unbiased professional analyses, opinions and conclusions.
- I have no present or prospective interest in the property that is the subject of this report and I have no personal interest with respect to the parties involved.
- I have no bias with respect to the property that is the subject of this report or to the parties involved with this assignment.
- My engagement in this assignment was not contingent upon developing or reporting predetermined results.
- My compensation for completing this assignment is not contingent upon the development or reporting of a predetermined value or direction in value that favors the cause of the client, the amount of the value opinion, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the intended use of this appraisal.
- My analyses, opinions, and conclusions were developed, and this report has been prepared, in conformity with the requirements of the Code of Professional Ethics & Standards of Professional Appraisal Practice of the Appraisal Institute.
- The use of this report is subject to the requirements of the Appraisal Institute relating to review by its duly authorized representatives.
- I, Dale J. Kleszynski, MAI, SRA, have made a personal inspection of the property that is the subject of this report.
- I, Patrick A. Kleszynski, MAI, provided significant appraisal assistance. Dale J. Kleszynski, MAI, SRA formulated the conclusions presented.
- No one provided significant real property appraisal assistance to the person signing this certification.
- As of the date of this report, I (Dale J. Kleszynski, MAI, SRA) have completed the continuing education program for Designated Members of the Appraisal Institute.
- As of the date of this report, I (Patrick A. Kleszynski, MAI) have completed the continuing education program for Designated Members of the Appraisal Institute.
- Other than ongoing work associated with this assignment, we have not completed an appraisal or analysis of the subject property during the past three years.

Respectfully submitted,



Patrick A. Kleszynski, MAI

Vice President

Associated Property Counselors, Ltd.

Certified General Real Estate Appraiser (IL License Number 553.002510)

Expires 9/30/2027



Dale J. Kleszynski, MAI, SRA

President

Associated Property Counselors, Ltd.

Certified General Real Estate Appraiser (IL License Number 553.000213)

Expires 9/30/2027

3.10 UNDERLYING ASSUMPTIONS AND LIMITING CONDITIONS

1. By this notice, all persons and firms reviewing, using or relying on this report in any manner bind themselves to accept these assumptions and limiting conditions. **Do not use this report if you do not accept these assumptions and limiting conditions.** These conditions are a preface to any certification, definition, fact or analysis, and are intended to establish as a matter of record that the consultant's function is to provide an opinion based on the appraiser's/consultant's observations of the subject property and real estate market as of a certain date. As the property and conclusions may be impacted by the passage of time due to various factors including, by way of description and not limitation: physical changes, economic changes and/or market activity, the opinions are considered to be reliable as of the date of the assignment. Subsequent to that date, the appraiser(s)/consultant(s) reserve the right to amend the analysis and/or conclusion in light of such changed conditions. This appraisal/consulting assignment and report are not an engineering, construction, legal or architectural study or survey and expertise in these areas is not implied.
2. The liability of Associated Property Counselors, Ltd., its officers, employees, contractors, and associate appraisers/consultants (hereinafter referred to collectively as "APC") is limited to the identified client. There is no accountability, obligation, or liability to any third party except if otherwise specifically stated within the report. APC's maximum liability relating to services rendered under this assignment (regardless of form of action, whether in contract, negligence or otherwise) shall be limited to the charges paid to APC for the portion of its services or work products giving rise to liability. In no event shall APC be liable for any consequential, special, incidental or punitive loss, damage or expense (including without limitation, lost profits, opportunity costs, etc.) even if advised of their possible existence. If this report is placed in the hands of anyone other than the client, the client shall make such party aware of all limiting conditions and assumptions of the assignment and related discussions. The appraisers/consultants are in no way responsible for any costs incurred to discover or correct any deficiency in the property. In the case of limited partnerships or syndication offerings or stock offerings in real estate, the client agrees that in case of lawsuit (brought by lender, partner, or part owner in any form of ownership, tenant, or any other party), the client will defend and hold Associated Property Counselors, Ltd., its officers, employees and associate appraisers/consultants completely harmless. Acceptance of and/or use of this report by the client or any third party is prima facie evidence that the user understands and agrees to these conditions.
3. The user/client agrees that any dispute arising from the completion of this assignment shall be settled through mediation and/or arbitration.
4. The report is intended to comply with the reporting requirements set forth in the Uniform Standards of Professional Appraisal Practice and it may or may not include discussions of the data, reasoning, and analysis used in the process of developing the appraiser's/consultant's opinion. The extent of the discussion and analysis applicable is based on the scope of work and report option outlined in the letter of transmittal and report. In some instances supporting documentation data, reasoning, and analyses is retained in the appraiser's file and/or office. The information contained in the report is specific to the needs of the client and for the intended use stated in the report. The appraiser/consultant is not responsible for unauthorized use of the report.

5. Unless otherwise specifically stated in the report, the assignment is based on the following assumptions: (a) that there is full compliance with all applicable federal, state and local environmental regulations and laws; (b) that all zoning, building, use regulations and restrictions of all types have been complied with; and (c) that all licenses, consents, permits, or other documentation required by any relevant legislative or administrative authority, local, state, federal and/or private entity or organization for any use considered in the value estimate have been or can be obtained or renewed.
6. As far as possible, the appraisers/consultants have inspected the property by personal observation. It is not, however, possible to observe conditions beneath the soil or hidden structural components. In this assignment it is assumed that the existing soil has the proper load bearing qualities to support the existing or proposed improvements where they exist or where they are proposed to exist. In this assignment no investigation of the potential for seismic hazard in the subject area was made. In this assignment mechanical components within the improvements were not critically inspected and no representations are made as to these matters unless specifically stated and considered in this report. In this assignment it is assumed that there are no conditions of the property site, subsoil, or structures, whether latent, patent or concealed, which would render it less valuable.
7. Unless otherwise stated within the report, no title evidence pertaining to easements, leases, reservations or other parties-in-interest was furnished.
8. In valuation assignments the property is appraised in fee simple estate unless otherwise noted.
9. In valuation assignments, the appraisal/consulting agreement assumes responsible ownership and competent management.
10. In this assignment it is assumed that the title of the property is good and merchantable. No responsibility is assumed for matters that are legal in nature, nor is any opinion of the state of the title to the property rendered herewith. A survey was not provided to the appraiser/consultant unless specifically stated in this report.
11. All data provided by the client or researched from public records is deemed reliable. If any errors are found that could have a material impact on the conclusion, APC reserves the right to recall this report and amend the analysis and/or conclusions. No guarantee is made for the accuracy of estimates or opinions furnished by others and contained in this report.
12. No liability is assumed for matters of legal character affecting the property, including by way of description and not limitation: title defects, encroachments, liens, overlapping lines.
13. Any liens or encumbrances that may now exist have been disregarded. In valuation assignments property is appraised as though free of indebtedness and as though no delinquency in payment of general taxes and special assessments exist.

14. In valuation or consulting assignments, any value assigned to improvements is in proportion to the contribution said improvements make to the value of the property as a whole.
15. Compensation for appraisal/consulting services is dependent only upon the delivery of the report.
16. In valuation or consulting assignments, the value found by the appraiser/consultant is in no way contingent upon the compensation to be paid or the appraisal services.
17. The assignment is completed in compliance with the Uniform Standards of Professional Appraisal Practice (USPAP) and the Code of Ethics of the Appraisal Institute.
18. In the event that the subject property enters into condemnation proceedings, it is assumed the appraiser/consultant will be given additional time for court preparation.
19. No portion of this report may be published or reproduced without the prior written consent of the appraiser/consultant and APC.
20. Unless specifically stated otherwise within the report, no earthquake compliance report, engineering report, flood zone analysis, hazardous waste or asbestos analysis was made, provided or ordered in conjunction with this assignment. The client is strongly urged to retain experts in these fields, if so desired.
21. In valuation assignments involving apartments, attempts were made to inspect a representative sample of the total number of units. In these assignments it is assumed that the condition and finish of all units is similar to the condition and finish of the inspected units. If it is determined that units not inspected differ from those inspected units in either condition or finish, the appraiser/consultant reserves the right to recall the appraisal to amend the analysis and/or conclusion.
22. Appraisal or consulting assignments involving less than the whole fee simple estate are subject to the following additional limitation: "The value reported for such estates relates to a fractional interest only in the real estate involved and the value of the fractional interest plus the value of all other fractional interests may or may not equal the value of the entire fee simple estate considered as a whole."
23. Appraisal or consulting assignments that relate to geographical portions of a large parcel or tract of real estate are subject to the following additional limitation: "The value reported for such geographical portion relates to such portion only and should not be construed as applying with equal validity to other portions of the larger parcel or tract. The value reported for such geographical portion plus the value of all other geographical portions may or may not equal the value of the entire parcel or tract considered as an entity."

24. The appraiser/consultant assumes that a any purchaser of the property that is the subject of this report is aware that (1) an appraisal of the subject property does not serve as a warranty of the condition of the property, (2) it is the responsibility of the purchaser to examine the property carefully and to take all necessary precautions before signing a purchase contract, and (3) any estimate for repairs is a non-warranted opinion of the appraiser/consultant unless otherwise stated.
25. Assignments prepared based upon provided plans and specifications are based on the assumption that the project is completed in a workmanlike manner in compliance with the plans and specifications. In prospective value assignments, it is understood and agreed that the appraiser/consultant cannot be held responsible for unforeseen events that impact the value or any conclusion presented. The user of the report and client agree that unforeseeable events may alter market conditions prior to completion of the project. The user and client agree the appraiser has the right to amend the report and conclusions in light of the identified changes.
26. In assignments where a Discounted Cash Flow Analysis is used as an analytical tool the user and client understand that the analysis has been prepared on the basis of information and assumptions identified in this report. The user/client understand that the achievement of any financial projections will be affected by fluctuating economic conditions and the conclusion is dependent upon the occurrence of other future events that cannot be assured. Therefore, the actual results achieved may vary from the projections made and such variation may be material. The client agrees to allow the appraiser to revise the conclusion and report in light of these changes.
27. Prior to entering into an agreement to perform any assignment, an appraiser/consultant must carefully consider the knowledge and experience that will be required to complete the assignment competently; disclose any lack of specific knowledge or experience to the client; and take all steps necessary or appropriate to complete the assignment competently. The appraisers/consultants have both the knowledge and experience required to complete this assignment competently.
28. The appraisers/consultants have inspected the subject property with the due diligence expected of a professional real estate appraiser. The appraisers/consultants are not qualified to detect hazardous waste and/or toxic materials. Any comment by the appraisers/consultants that might suggest the possibility of the presence of hazardous waste and/or toxic materials are subject to review by a qualified expert in the field. The user/client agree that the appraiser/consultant has the right to amend the assignment, report and conclusion after an investigation by a qualified expert in the field of environmental assessment is completed.

29. The user/client understands that the presence of substances such as asbestos, urea formaldehyde foam insulation, or other hazardous substances or environmental conditions, may affect the property and the conclusions presented. The appraiser's/consultant's opinion and conclusions are predicated on the assumption that there is no such condition on, in or near the property that could cause a loss in value or an extension of the marketing time. The user/client agree to allow the appraiser/consultant to review and amend the analysis, report and conclusions if the referenced substances or others exist on the property.
30. No responsibility is assumed for any environmental conditions, or for any expertise or engineering knowledge required to discover them. The appraiser's/consultant's descriptions and resulting comments are the result of routine observations made during the appraisal process. The client is urged to retain an expert in this field, if so desired.
31. The Americans with Disabilities Act (ADA) became effective January 26, 1992. No specific compliance survey and analysis of this property have been made to determine whether or not it is in conformity with the various detailed requirements of the ADA. It is possible that a compliance survey of the property, together with a detailed analysis of the requirements of the ADA could reveal that the property is not in compliance with one or more requirements of the Act. The user/client understands that, this fact could have an effect on the property and conclusions presented. In this assignment the possibility of non-compliance with the requirements of ADA was not considered. The user/client agree that the appraiser/consultant has the right to amend the assignment, report and conclusion after an investigation by a qualified expert in the field is completed.

3.11 STATEMENT OF PROFESSIONAL QUALIFICATIONS

DALE J. KLESZYNSKI, MAI, SRA

Dale J. Kleszynski, MAI, SRA, is president and principal shareholder of Associated Property Counselors, Ltd. He has served as an expert witness in various areas of litigation and arbitration practice including zoning issues and disputes, legal malpractice, appraisal malpractice, dispute management, mediation, appraisal methodology, damages and eminent domain matters. As part of his service, he has prepared use impact studies, highest and best use studies, feasibility studies, cost estimates, estimates of just compensation, leasehold interests and leased fee interests. In addition to the above services, he has provided documented appraisals for financial institutions, corporations, developers, municipalities, governmental agencies, law firms, school districts and private individuals. Appraisal, arbitration and consulting assignments have been completed on a regional and nationwide basis.

Mr. Kleszynski has taught numerous appraisal and USPAP courses for professional organizations and specialized groups and he served as part of the development team that authored courses for the Appraisal Institute. He serves as a qualified instructor for the Appraisal Institute and is a certified USPAP instructor for the Appraisal Foundation. During the past 40 years, he has served on numerous national and local committees for the State of Illinois and the Appraisal Institute. Mr. Kleszynski is licensed and certified to complete appraisal and consulting assignments in the states of Illinois, Indiana, and Michigan.

Educational Background

Loyola University of Chicago, Bachelor of Arts, 1971

Completed all educational, admissions, demonstration report and comprehensive examination requirements to be awarded the MAI and SRA designations by the Appraisal Institute

Currently certified under the Appraisal Institute Continuing Education Program

Currently certified under the Continuing Education Requirements of the State of Illinois

Currently certified under the Continuing Education Requirements of the State of Indiana

STATEMENT OF PROFESSIONAL QUALIFICATIONS

DALE J. KLESZYNSKI, MAI, SRA

Professional Designations and Certification

Member of the Appraisal Institute - MAI No. 6747

Senior Residential Appraiser - SRA

Illinois State Certified Real Estate Appraiser- License No. 553.000213

Indiana Certified General Appraiser - License No. CG49300022

Appraisal and Consultation Experience

Since 1979, various types of real estate, including:

- Office and commercial buildings

- Assisted living facilities

- Apartment structures and complexes

- Including Low Income Housing Tax Credit complexes

- Industrial and warehouse properties

- Single-family and condominium residential properties

- Vacant land

- Residential, multi-family, commercial, and industrial

- Special purpose properties

- Including bulk petroleum storage facilities, steel fabricating plants, hotels, soccer arenas, golf courses, motels, chemical processing facilities, restaurants, bank facilities and ice arenas

- Eminent domain projects

- McCormick Place expansion

- Extension of Interstate 355 in Cook and Will Counties

- City of Hammond v. Great Lakes Marina

- Palwaukee Airport expansion

- Lansing Municipal Airport expansion

- Little Calumet River and Levee and Flood Abatement Project

- O'Hare International Airport expansion

- Various road and municipal projects

- Various zoning and municipal projects

- Adult use impact study - County of Cook

- Impact study for group home zoning

- Impact studies for cell tower development

- School site selection

- Commercial development impact studies

- Real estate tax impact studies

- Arbitration

- Sole arbitrator to determine just compensation for a fiber optic easement

STATEMENT OF PROFESSIONAL QUALIFICATIONS

DALE J. KLESZYNSKI, MAI, SRA

Service Offices

President - Chicago Chapter of the Appraisal Institute
 Regional Representative - Appraisal Institute
 Division of Faculty - Appraisal Institute
 Regional Chairman - Ethics Administration
 Assistant Regional Representative - Review and Counseling
 National Board of Directors - Appraisal Institute
 Vice Chairman - General Appraisal Board
 Chairman - General Appraisal Board
 Executive Committee - Appraisal Institute
 National Nominating Committee - Appraisal Institute
 General Appraisal Council

Professional Experience

President and Chief Appraiser, Associated Property Counselors, Ltd.
 Staff Appraiser, Abacus Realty Appraisers, Inc., Chicago
 Staff Appraiser, Property Assessment Advisors, Chicago
 Staff Appraiser, Central Appraisal Company, Chicago
 Mortgage Loan Officer, First Calumet City Savings and Loan, Calumet City,
 Illinois

Course and Seminar Development

Course 700 - Introduction to Litigation - Development Team
 Course 710 - Eminent Domain - Part A - Development Team
 Course 720 - Eminent Domain - Part B - Development Team
 Individual seminars for the Cook County State's Attorney

STATEMENT OF PROFESSIONAL QUALIFICATIONS**DALE J. KLESZYNSKI, MAI, SRA****Qualified Instructor for the Appraisal Institute****Courses:**

Basic Income Capitalization
General Applications
7-Hour National USPAP Update Course
General Appraiser Sales Comparison Approach
15-Hour National USPAP Course
Business Practices and Ethics
Advanced Income Capitalization
Advanced Applications
The Appraiser as an Expert Witness: Preparation & Testimony
Litigation Appraising: Specialized Topics and Applications
Condemnation Appraising: Basic Principles and Applications
Condemnation Appraising: Advanced Topics and Applications

Seminars:

Litigation Skills for the Appraiser
Partial Interest Valuation – Undivided
Case Studies in Commercial Highest and Best Use
Understanding and Testing DCF Valuation Models
Appraisal Review – General
Supporting Capitalization Rates
Scope of Work: Expanding Your Range of Services
The Road Less Traveled: Special Purpose Properties
Real Estate Finance, Value, and Investment Performance
Introduction to Income Capitalization

STATEMENT OF PROFESSIONAL QUALIFICATIONS

PATRICK A. KLESZYNSKI, MAI

Patrick A. Kleszynski, MAI joined Associated Property Counselors, Ltd. in 2008. After completing both qualifying and continuing education coursework, professional experience requirements and examinations, he obtained his Certified General Real Estate Appraiser licensure with the state of Illinois in 2015 and the state of Indiana in 2016. In April 2016, Mr. Kleszynski received his MAI designation from the Appraisal Institute. Over the course of his career, he has provided real estate appraisal and consulting services involving a variety of residential, commercial, industrial and special purpose properties for mortgage financing, real estate tax appeal, estate planning and litigation assignments. Mr. Patrick A. Kleszynski, MAI is currently the vice president of Associated Property Counselors, Ltd. and is the firm's senior commercial staff appraiser.

EDUCATION

Illinois Wesleyan University, Bachelor of Arts, 2006

APPRAISAL COURSES

Real estate appraisal classes successfully completed through the Appraisal Institute:

- Basic Appraisal Principles
- Basic Appraisal Procedures
- 15-Hour National USPAP
- Business Practices and Ethics
- General Appraiser Income Approach (Part 1)
- General Appraiser Income Approach (Part 2)
- General Appraiser Site Valuation & Cost Approach
- General Appraiser Sales Comparison Approach
- General Appraiser Market Analysis & Highest and Best Use
- Real Estate Finance, Statistics and Valuation Modeling
- General Appraiser Report Writing and Case Studies
- Advanced Income Capitalization
- Advanced Market Analysis and Highest & Best Use
- Advanced Concepts and Case Studies

LICENSURE

Illinois State Certified General Real Estate Appraiser – License No. 553.002510

Indiana State Certified General Appraiser – License No. CG41600007

Currently certified under the Continuing Education Requirements of the State of Illinois and State of Indiana

AFFILIATIONS

MAI Designated member of the Appraisal Institute

PROFESSIONAL EXPERIENCE

Associated Property Counselors – July 2008 to Present

Responsibilities include appraising various types of real estate, both existing and proposed, including single-family homes, multi-family structures and complexes, industrial manufacturing and warehouse properties, commercial office and retail buildings, and vacant land (residential, commercial and industrial).

3.12 PARTIAL LIST OF CLIENTS

Financial Institutions

American Chartered Bank
 Associated Bank
 Bank of Choice
 Baytree Bank
 Centru Bank
 Cole Taylor Bank
 Delaware Place Bank
 Fifth Third Bank
 First Choice Bank
 First Financial Bank
 First Midwest Bank
 First Trust
 George Washington Savings Bank

Harris Bank
 Heritage Community Bank
 LaSalle Bank
 MB Financial
 Mercantile Bank
 Midwest Bank
 National City Bank
 Peoples Bank
 S & T Bank
 Standard Bank
 State Bank of Countryside
 The Private Bank

Government Services Administration

City of Chicago
 City of Kankakee
 City of Palos Heights
 City of Park Ridge
 Cook County State's Attorney
 Department of Justice
 DuPage County State's Attorney
 DuPage County Assessor's Office
 Federal Aviation Administration
 Frankfort Square Park District
 Homewood-Flossmoor Park District
 Kankakee County State's Attorney
 Lake County Parks Department
 Lan Oak Park District
 Lansing Municipal Airport
 Little Calumet River Basin Development
 Manteno Township Assessor's Office
 McHenry County Conservation District
 Office of Banks and Real Estate
 Town of Hobart

Town of Munster
 University of Illinois
 Various School Districts in Cook, DuPage,
 Lake, and Will Counties
 Village of Bradley
 Village of Burr Ridge
 Village of Crestwood
 Village of Glen Ellyn
 Village of Lansing
 Village of Lombard
 Village of Maywood
 Village of Oak Lawn
 Village of Orland Park
 Village of Riverdale
 Village of Rosemont
 Village of Western Springs
 Village of Wheeling
 Waubesa Community College
 Will County State's Attorney
 Wisconsin Department of Revenue

Corporations

The Archdiocese of Chicago
 AT&T
 Attorney's Title Insurance Fund, Inc.
 BP International
 BP Products – North America
 Broadacre Management
 Casey's General Store
 Commonwealth Edison
 FP International
 Gallagher Asphalt
 Gallagher & Henry
 Garvey Marine
 Lucent Technologies
 McDonald's Corporation

Moser Enterprises
 Pasquinelli Development
 Peoples Energy
 Prairie Material Sales, Inc.
 The Pritzker Foundation
 Robinson Engineering
 RR Donnelley Company
 Sherwin-Williams Company
 T-Mobile USA, Inc.
 Taco Bell
 Travelers Insurance
 U. S. Steel Corporation
 Wiseman-Hughes Enterprises

PARTIAL LIST OF CLIENTS

Professional Law Firms

Antonopoulos & Virtel, P.C.	Law Office of Eugene M. Feingold
Arnstein & Lehr, LLP	Law Office of Matthew J. Carmody
Azulay Seiden Law Group	Law Office of John K. Kallman
Baker & McKenzie	Law Office of Bryan P. Lynch
Bell, Boyd & Lloyd, LLP	Law Office of Ronald N. Primack, LLC
Blachly, Tabor, Bozik & Hartman	Law Office of Randall A. Wolff
Burke, Burns and Pinelli, Ltd.	Liston & Tsantilis, P.C.
Burke, Warren, McKay & Serritella, P.C.	Masters, Charles J., Ltd.
Campion, Curran, Dunlop & Lamb	McGuire Woods, LLP
Casale, Woodward & Buls, LLP	Neal & Leroy, LLC
Clifford Law Offices	Newby, Lewis, Kaminski & Jones, LLP
Defrees & Fisk, LLC	Noonan & Lieberman, Ltd.
DLA Piper	Peacock & McFarland, P.C.
Dunn Martin Miller & Heathcock, Ltd.	Petersen and Houpt
Eiden & O'Donnell, Ltd.	Polsinelli Shughart PC
Figliulo & Silverman, P.C.	Pretzel & Stouffer, Chartered
Fioretti, Lower & Carbona, LLP	Rathbun, Cservenyak & Kozol, LLC
Foley & Lardner, LLP	Righeimer Martin and Cinquino
Foran, O'Toole & Burke, LLC	Robbins Schwartz
Franczek Radelet P. C.	Ryan and Ryan
Goldstine, Skrodzki, Russian, Nemec & Hoff, Ltd.	Sandrick Law Firm
Goodman, Katz and Scheele	Savaiano & Spear
Gordon & Pikarski	Schain, Burney, Ross & Citron, Ltd.
Green, Schoenfeld & Kyle, LLP	Schopf & Weiss, LLP
Harrison & Held	Seyfarth Shaw
Helm and Wagner	Shaw Fishman Glantz & Towbin
Hinshaw & Culbertson, LLP	Sonnenschein Nath & Rosenthal, LLC
Holland and Knight, LLC	Sosin & Arnold, Ltd.
Huck Bouma	Sullivan, Hincks & Conway
Jenner & Block, LLP	Sullivan, John P., DDS, JD
Joyce, Edward T. & Associates, P.C.	Tressler, LLP
Klein, Thorpe & Jenkins, Ltd.	Whitt Law
Koransky, Bouwer & Poracky, PC	
Personal and case references available upon request	

CRITERION 4:

“for a facility other than a sanitary landfill or waste disposal site, the facility is located outside the boundary of the 100-year floodplain or the site is flood-proofed”

415 ILCS 5/39.2(a)(iv)

**CRITERION 4:
FLOODPLAIN ASSESSMENT**

The Illinois Environmental Protection Act, at 415 ILCS 5/39.2 (a)(iv), requires that an applicant for transfer station siting demonstrate that the proposed transfer station is located outside the boundary of the 100-year floodplain or that the site is flood-proofed. This report demonstrates that the proposed Rantoul Recycling and Transfer Station is located outside the boundary of the 100-year floodplain or is flood-proofed.

**Prepared for:
AREA DISPOSAL SERVICE, INC.
RANTOUL RECYCLING AND TRANSFER STATION
RANTOUL, ILLINOIS
CHAMPAIGN COUNTY**

**Prepared by:
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
NAPERVILLE, ILLINOIS**

CEC Project 340-656

DECEMBER 2025

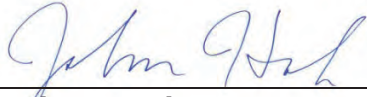
4.0 FLOODPLAIN ASSESSMENT

The proposed Rantoul Recycling and Transfer Station is not located in any 100-year floodplain as shown on the flood insurance rate map (FIRM) provided as Figure 4-1. The FIRM is prepared by the Federal Emergency Management Agency and indicates the presence of special flood hazard areas (floodplain) within the area. As shown, the site is not located in any special flood hazard area.

Based on the above information, the proposed Rantoul Recycling and Transfer Station is located outside of the 100-year floodplain or flood-proofed and, therefore, will not restrict the flow of a 100-year flood, nor reduce the temporary water storage capacity of any 100-year floodplain.

4.1 CERTIFICATION

I hereby certify that all information contained in this Application for Local Siting Approval for Criterion 4 was prepared by me or under my direct supervision and is true and correct to the best of my knowledge and belief.



John E. Hock, P.E.

December 18, 2025

Date

062-047623 - IL

Professional Engineer Registration Number and State

CRITERION 4

FIGURES

NOTES TO USERS

This map is to be used as a guide only. It does not constitute a warranty of any kind, and is not intended to be used as a basis for any legal action or for any other purpose. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Flood Insurance Study (FIS) data is available, users should consult the National Flood Insurance Program (NFIP) Flood Insurance Study report for the jurisdiction. Flood Insurance Study reports contain detailed information on the location, extent, and depth of flood hazards. These reports also include information on the community's flood hazard history and on the community's flood hazard management program. The FIS report should be obtained in conjunction with the FIS for purposes of construction and flood plain management.

Coastal Flood Hazard Areas shown on the map apply only to areas of 0.1 North American Vertical Datum of 1988 (NAVD 88). Users of this FIS should be aware that the Flood Insurance Study report for this jurisdiction. Flood Insurance Study reports contain detailed information on the location, extent, and depth of flood hazards. These reports also include information on the community's flood hazard history and on the community's flood hazard management program. The FIS report should be obtained in conjunction with the FIS for purposes of construction and flood plain management.

Floodways indicated by anthropogenic features such as bridges and culverts are shown on the map. Floodways are areas where floodwaters are likely to be concentrated or impounded. Floodways are shown on the map as areas with a higher elevation than the surrounding area. Floodways are shown on the map as areas with a higher elevation than the surrounding area.

Multiple Flood Hazard Areas shown on the map apply only to areas of 0.1 North American Vertical Datum of 1988 (NAVD 88). Users of this FIS should be aware that the Flood Insurance Study report for this jurisdiction. Flood Insurance Study reports contain detailed information on the location, extent, and depth of flood hazards. These reports also include information on the community's flood hazard history and on the community's flood hazard management program. The FIS report should be obtained in conjunction with the FIS for purposes of construction and flood plain management.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. These areas are shown on the map as areas with a higher elevation than the surrounding area. Flood control structures are shown on the map as areas with a higher elevation than the surrounding area.

The projection used in the preparation of this map was the National Map Accuracy (NMA) zone 16. The horizontal datum was NAD 83. Differences in elevation between the FIS and the NMA zone 16 may be observed in areas of high elevation. These differences do not reflect the accuracy of the FIS.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structures and ground elevations on the map. Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structures and ground elevations on the map.

To obtain current elevation, description, and/or location for flood marks shown on this map, please contact the information services branch of the National Geographic Survey at (800) 713-3242, or visit the website at www.ngs.noaa.gov. National Geographic Survey (NGS) 1315 East-West Highway (201) 713-3242

REFERENCE

1. MAP PROVIDED BY FEMA FLOOD INSURANCE RATE MAP NUMBER 17019C200D REVISED OCTOBER 2013.



LEGEND

- SPECIAL FLOOD HAZARD AREAS (SFHA) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**
The 1% annual chance flood is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zone A, Zone AE, Zone AO, Zone AH, Zone AR, Zone AV, Zone V, Zone VE, and Zone X.
- Zone A**
Area of shallow flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone AE**
Area of moderate flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone AO**
Area of deep flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone AH**
Area of high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone AR**
Area of very high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone AV**
Area of extremely high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone V**
Area of very high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone VE**
Area of extremely high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone X**
Area of moderate flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone D**
Area of deep flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone B**
Area of high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone C**
Area of very high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone E**
Area of extremely high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone F**
Area of very high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone G**
Area of extremely high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone H**
Area of very high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone I**
Area of extremely high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone J**
Area of very high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone K**
Area of extremely high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone L**
Area of very high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone M**
Area of extremely high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone N**
Area of very high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone O**
Area of extremely high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone P**
Area of very high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone Q**
Area of extremely high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone R**
Area of very high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone S**
Area of extremely high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone T**
Area of very high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone U**
Area of extremely high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone V**
Area of very high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone W**
Area of extremely high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone X**
Area of very high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone Y**
Area of extremely high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.
- Zone Z**
Area of very high flooding. Flood depths are determined by the 1% annual chance flood. Flood depths are determined by the 1% annual chance flood.

SCALE IN FEET
0 2000 4000

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1230 East Diehl Road
Suite 200
Naperville, IL 60563
Ph: 630.963.6026
www.cecinc.com

AREA DISPOSAL SERVICE, INC.
RANTOUL RECYCLING AND TRANSFER STATION
899 WEST CHAMPAIGN AVENUE
RANTOUL, ILLINOIS
FLOOD INSURANCE RATE MAP

DRAWN BY: MSK
DATE: 12/08/2025
DWG SCALE: 1"=2000'

CHECKED BY: JEH
PROJECT NO: 340-656-2002

APPROVED BY: JEH*
FIGURE NO: 4-1

CRITERION 5:

“the plan of operations for the facility is designed to minimize the danger to the surrounding area from fire, spills, or other operational accidents”

415 ILCS 5/39.2(a)(v)

**CRITERION 5:
INCIDENT PREVENTION AND RESPONSE PLAN**

The Illinois Environmental Protection Act, at 415 ILCS 5/39.2 (a)(v), requires that an applicant for a transfer station siting demonstrate that the plan of operations for the facility is designed to minimize the danger to the surrounding area from fires, spills, or other operational accidents. This report demonstrates that the proposed Rantoul Recycling and Transfer Station will operate with minimal danger to the surrounding areas. It also explains the facility's incident prevention and response plan.

Prepared for:

**AREA DISPOSAL SERVICE, INC.
RANTOUL RECYCLING AND TRANSFER STATION
RANTOUL, ILLINOIS
CHAMPAIGN COUNTY**

Prepared by:

**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
NAPERVILLE, ILLINOIS**

CEC Project 340-656

DECEMBER 2025

5.0 INTRODUCTION

The proposed Rantoul Recycling and Transfer Station (Rantoul RTS) will be operated by Area Disposal Service, Inc. (Area Disposal) and is located at 896 West Champaign Avenue, Rantoul, Champaign County (site). The site includes numerous design and operational features, which will minimize the danger to the surrounding area from fire, spills, or other operational accidents. These design and operational features are detailed in Criterion 2 of this Application for Local Siting Approval.

Additionally, an incident prevention and response plan (Plan), described below, has been prepared to specifically address fire, spill, and accident prevention and response for the Rantoul RTS. The Plan is designed with two focuses. First, the Plan presents the actions to be taken to prevent fires, spills, and other operation accidents from occurring. Second, the Plan presents an organized and coordinated course of action to be taken in responding to potential fires, spills, or other operational accidents at the Rantoul RTS, if any occur.

5.1 SAFETY PERSONNEL

The Rantoul RTS will have a designated safety officer. The facility manager (or duly designated equipment operator) will serve as the safety officer to ensure an identified safety officer is on-site at all times during operation. The Rantoul RTS anticipates operating hours of up to 5:00 a.m. to 6:00 p.m. on weekdays and 5:00 a.m. to 12:00 p.m. on Saturdays. The safety officer will be responsible for implementing procedures to prevent fires, spills, and other operational accidents, and to coordinate responses to incidents or emergencies, if any were to occur. Responses will be consistent with the Plan and with any government response to the incident, such as the police and fire department.

5.2 INCIDENT PREVENTION

5.2.1 FIRE PREVENTION AND CONTROL

The Rantoul RTS has been designed to prevent fires from occurring and, if any fires should ignite, to minimize the impact on the site and prevent any impacts to the surrounding areas. The transfer building will be a pre-engineered metal building and be equipped with a Fire Rover early detection and response system. A Fire Rover unit will be provided east of the transfer building and piping and monitoring equipment will be installed in the transfer building. The Fire Rover combines twenty-four hours per day, seven days per week remote thermal monitoring, a fire-fighting foam system that can be released quickly if a spike in temperature in the transfer building is detected, and a remote person who activates and directs the fire-fighting foam system [<https://firerover.com/demo/>]. The Fire Rover is used at other Area Disposal affiliated facilities and has been highly effective.

In addition to the Fire Rover system, design features and equipment will include:

- Access roads which will accommodate emergency vehicles, including fire trucks;
- Fire extinguishers in each piece of heavy equipment, the transfer building, and the scale house; and
- An on-site water truck with a pressurized water supply and hose reel.

The following actions will be taken regularly by Rantoul RTS personnel to prevent fires:

- The equipment operators will be trained to be alert for signs of burning waste such as smoke, steam, or heat being released from incoming waste loads.
- Equipment used to move waste will be routinely cleaned through the use of high-pressure water. The high-pressure water will remove combustible waste and caked material, which can cause equipment overheating and increase fire potential.
- Smoking will not be permitted near waste management areas.

Fires in waste transfer stations do not frequently occur. When they do occur, they are usually caused by a smoldering load of waste being unloaded on the tipping floor or combustible papers/cardboard coming into contact with an ignition source.

All equipment operators and other personnel who are routinely inside the transfer building will be given instruction and training in initial fire response and control procedures. The training will include identifying all potential fire hazards on the site, learning the procedures to prevent fires from occurring, learning the proper methods to put out any fires that might occur, and learning

how to use all fire equipment on-site. Personnel will also be trained to immediately contact the safety officer who will assess the need for local outside emergency response services.

If a “hot load” enters the Rantoul RTS, it will be directed to the concrete area east of the transfer building where the load can be contained and managed. This location is readily accessible to waste hauling and emergency vehicles, yet far enough from the transfer building that the potential for spread of fire will be minimized.

Incoming collection trucks recognized with hot loads can bypass the scale house and approach the designated area, which is the concrete area outside the transfer building where trucks begin to back into the building; alternatively, hot loads that have reached the scale can proceed directly to the designated area. Smoldering wastes located in the transfer building can be pushed directly to the designated area. Water will be available from the water truck. In the unlikely event that a transfer trailer is identified with a hot load, the trailer can be positioned in the hot load containment area, and the trailer disengaged from the tractor.

5.2.2 SPILL PREVENTION AND CONTROL

The Rantoul RTS will not accept liquid waste. The only spills that could occur at the transfer building would be residual liquid from waste materials unloaded on the tipping floor, minor fluid leakage from equipment/vehicles, and fluid from refueling activities.

Some liquids may be present in the waste materials unloaded on the tipping floor of the transfer building. These liquids would generally be small amounts and would normally be absorbed by the dry solid waste materials as the material is pushed along the tipping floor for loading onto the transfer trucks. Liquid that accumulates on the tipping floor or in the loading pit will be directed through an oil-water separator and then collected in an on-site holding tank. No liquid from the tipping floor or the loading pit will be discharged to the stormwater system.

Any free liquids from spills or equipment/vehicle leakage will be contained and removed with absorbent materials. The used absorbent materials will be handled and disposed according to the type of liquid material that was spilled. If any solid waste materials are significantly affected by a liquid spill, after they are identified, they will be segregated from other waste materials and managed according to the waste type.

The Rantoul RTS will have fuel tanks to refuel on-site equipment. The tanks will be equipped with secondary containment and automatic shutoff controls. Personnel will be trained to remain with their vehicle at all times when the tanks are being filled or when equipment is being fueled. A spill prevention control and countermeasure plan detailing these and other procedures will be prepared and implemented in accordance with the applicable regulations.

5.2.3 ACCIDENT PREVENTION AND CONTROL

Only trained and authorized employees will be allowed to operate any heavy equipment on-site. All employees working in the transfer building will have received training on the equipment in the building and will receive periodic refresher instruction.

All employees will be provided with the appropriate personal protective equipment based on the work being performed. All employees will be required to wear the personal protective equipment assigned to them while they are working on-site, which will minimally include hardhats, steel-toed boots, and long pants. Failure to comply with these requirements will result in disciplinary action.

The safety officer will be knowledgeable of the proper operational accident prevention and site safety programs. The safety officer will ensure that all personnel are properly trained and are operating the transfer station in accordance with the required standards.

5.2.4 TRAINING PROGRAM

The Rantoul RTS is designed to ensure a safe work environment for all employees as well as those people using the site. All employees will be given training in safe operating procedures for all equipment, the use of the appropriate personal protective equipment, identification of potential hazards, methods to avoid those hazards, and instruction in handling any potential emergencies that might arise.

New employees will receive a comprehensive overview of all aspects of fire, spill, and accident prevention for transfer station operations, focusing on information that is necessary to enable them to perform their duties safely. Initial training subject matter will include applicable requirements found at the facility, and other plans such as the stormwater pollution prevention plan.

Safety meetings will be scheduled and conducted for all employees at least once per month. If a regular monthly meeting is canceled, it will be rescheduled or combined with the scheduled training the next month. Training sessions will be scheduled to allow facility operations to continue uninterrupted. Records of personnel attending each training session, and the topics covered, will be maintained at the Rantoul RTS. Topics for monthly training may vary, but will include the following:

- Equipment safety;
- Personal protective equipment;
- Fire protection, prevention, and evacuation;
- Use and limitation of fire-fighting methods;
- Spill prevention and control;

- Emergency response;
- Litter control and windblown waste pick-up; and
- Waste screening and prohibited waste management.

5.3 INCIDENT RESPONSE

5.3.1 RESPONSE PROCEDURES

In the case of any incident on-site (i.e., fire, spill, or other operational accident), immediate assessment of the possible hazard(s) to public health, safety, or the environment will be made by the safety officer. Rantoul RTS personnel will respond as directed by the safety officer. Immediate action by on-site personnel will concentrate on preventing the spread of any fire/explosion/spill/leak situation that occurs. Immediate emergency medical attention will be provided to injured personnel. In the case of a fire or explosion, any possible sources of ignition will be removed from the incident area, provided this can be done without risk to personnel. Vehicular traffic will be suspended/redirected, and work ceased until the fire or incident can be safely contained and controlled.

If the site has a fire and/or explosion, spill or release, or other incident that presents a possible threat to public health, safety, or the environment, the safety officer will contact local authorities (police/fire department) in order to inform them of the situation and request assistance, as necessary.

In the event of a physical injury, the safety officer will quickly assess the situation for the need for outside assistance (i.e., ambulance). Temporary medical assistance will be administered as necessary for injuries. The safety officer (at least) will be qualified to provide first aid and cardiopulmonary resuscitation. The injured person will be transported to the closest medical care site, commensurate with the level of injury.

An internal communication system consisting of mobile phones will be used for alerting personnel in the event of an emergency. This system will provide site personnel with immediate emergency notification capabilities, and the opportunity to receive necessary instructions in the event of an incident.

5.3.2 ADDITIONAL RESPONSE PROCEDURES IN THE EVENT OF A FIRE

Site personnel will take the following actions if a fire is discovered:

- Contact the local fire department by calling 911.
- Alert other site personnel.
- Assess extent of fire, possibilities for the fire to spread, and alternatives for extinguishing the fire.
- If it appears that the fire can be safely fought with available fire-fighting devices until arrival of the local fire department, attempt to contain or extinguish the fire.

- Upon arrival of local fire department personnel, direct them to the fire and provide assistance as appropriate.
- No attempt will be made to fight the fire without adequate personnel or personal protective equipment. Site personnel will be familiar with the use and limitations of fire-fighting equipment available on-site.

Firefighting methods for burning solid waste include smothering the waste, separating burning material from other waste, or spraying with water. Small fires might be controlled with hand-held extinguishers. A water truck with a pressurized water supply and hose reel will be available on-site.

If a fire occurs on a vehicle or piece of equipment, the equipment operator will bring the vehicle or equipment to a safe stop. If safety of personnel will allow, the vehicle will be parked away from fuel supplies, uncovered solid wastes, and other vehicles. The engine will be shut off, and the brake engaged to prevent movement of the vehicle or piece of equipment.

Portable fire extinguishers will be provided on all mobile equipment. The fire extinguishers will be type ABC, which are suitable for fighting combustible (A), flammable liquid and gas (B), and electrical (C) fires. Fire extinguishers will also be located within the buildings. Each extinguisher will be routinely inspected and recharged as necessary. A qualified service company will perform these inspections, and all extinguishers will display a current inspection tag. Inspection and recharging will be performed following each use.

5.3.3 RANTOUL FIRE DEPARTMENT NOTIFICATION

After any fire occurs, the Rantoul Fire Department will be contacted. The Rantoul RTS will provide the fire department as much information as possible regarding the fire and fire-fighting efforts, as soon as possible after the fire occurs. The fire prevention and fire control procedures for the site will be revisited if a significant fire occurs to determine if modifications are warranted.

Tours of the Rantoul RTS will be made available to the police department, the fire department, and those agencies/services that would respond to emergency situations at the site to familiarize personnel with specific operations and layout of the site, and to seek their input on preventive measures.

5.3.4 EVACUATION

The safety officer will normally determine the need for evacuation of the site and communicate the need through the radio/telephone system. The evacuation routes are posted in the existing site

building and will be posted in the transfer building. When evacuation is required, the following procedures will be followed:

- Alert all personnel using the radio/telephone system.
- Shut down all mobile equipment.
- Assist site users or visitors in the evacuation process.
- Proceed to the designated “regrouping area”. Once assembled, this will permit a determination and identification of any missing persons.
- Exercise judgment and use prescribed evacuation routes to exit the buildings and assemble at the designated meeting location. For immediate evacuation, the nearest doorway or opening would be the preferred escape route from the building.

5.3.5 POST-INCIDENT ACTIVITIES

Following any incident, the safety officer will:

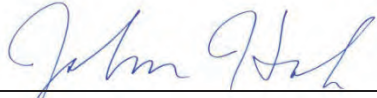
- Make arrangements for the storage or disposal of any recovered wastes, water, or any contaminated materials resulting from the incident.
- Ensure all emergency response equipment used will be cleaned and made fit for re-use, or replaced as necessary, so that the equipment will be available when Rantoul RTS operations resume. An inspection of all equipment will take place before operations resume ensuring that each item is in proper working condition. Procedures may include recharging of fire extinguishers, replacement of personal protective gear, restocking of disposable items, and other preparedness measures.
- Document the incident. Records will be retained on-site for the duration of the life of the transfer station and notifications/information will be filed with the appropriate agencies as required by law.

5.3.6 INSURANCE COVERAGE

Area Disposal has and will maintain insurance coverage for accidents, such as fires, explosions, non-sudden accidental occurrences and pollution impairment.

5.4 CERTIFICATION

I hereby certify that all information contained in this Application for Local Siting Approval for Criterion 5 was prepared by me or under my direct supervision, and is true and correct to the best of my knowledge and belief.



John Hock, P.E.

December 18, 2025

Date

062-047623 - IL

Professional Engineer Registration Number and State

CRITERION 6:

“the traffic patterns to or from the facility are so designed as to minimize the impact on existing traffic flows”

415 ILCS 5/39.2(a)(vi)

Traffic Impact Study

Rantoul Recycling and Transfer Station

Rantoul, Illinois



Prepared For:

Area Disposal Service, Inc.



December 16, 2025

1. Introduction

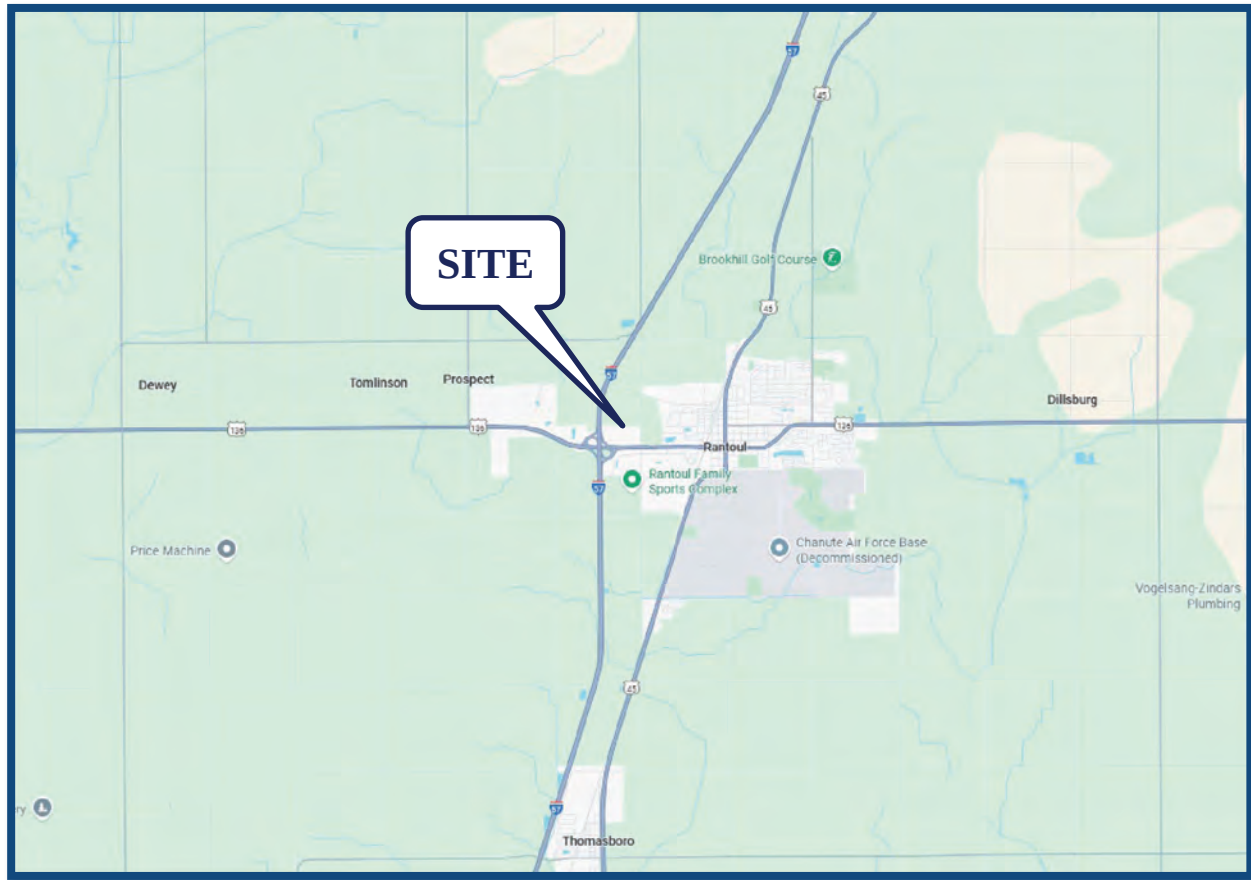
This report summarizes the methodologies, results, and findings of a traffic impact study conducted by Kenig, Lindgren, O'Hara, Aboona, Inc. (KLOA, Inc.) for a proposed municipal solid waste transfer station to be located in Rantoul, Illinois. The proposed waste transfer station is to be located at the existing Area Disposal waste hauling facility located on the north side of the West Champaign Avenue service road just west of Murray Road. Currently, the Area Disposal waste hauling operation stores and maintains approximately 37 trucks at the facility and has a total of approximately 45 employees. Access to the current Area Disposal waste hauling facility is provided via a single access drive located at the west end of the West Champaign Avenue service road. **Figure 1** shows the location of the site in relation to the area roadway system. **Figure 2** shows an aerial view of the site.

As proposed, the transfer station will accept and transfer a maximum of 500 tons of waste/recyclables per day including up to 350 tons of municipal solid waste (MSW) and up to 150 tons of single stream recyclables. The proposed facility is projected to have a total of five employees in addition to the existing employees working at the hauling operations and is expected to receive and transfer waste/recyclables from 5:00 A.M. to 6:00 P.M. on weekdays and from 5:00 A.M. to 12:00 P.M. on Saturdays. Access to the facility is proposed to be provided via the existing access drive on the West Champaign Avenue service road serving the waste hauling facility.

The waste and recyclables will be transported to the proposed transfer station via collection trucks and transported from the proposed transfer station to a distant disposal facility via transfer trailers. Transfer stations provide the means to safely and efficiently transfer waste and recyclables from the local collection trucks to transfer trailers, eliminating the need for collection trucks to travel to/from the landfills. It is important to note that transfer trailers transport three to six times the volume of waste/recyclables transported by collection trucks.

As is the case with any development, waste transfer stations do result in an increase in traffic in the immediate vicinity of the site. However, the volume of traffic generated in any one time period is limited as the traffic generated by a waste transfer station is distributed throughout the day. Furthermore, the peak traffic periods of waste transfer stations generally occur during the late morning and early afternoon, which do not coincide with the critical morning commuter peak hour of traffic on the existing roadway system. Therefore, waste transfer stations typically generate a low volume of traffic during the critical morning commuter peak period, when traffic on the roadway system is at its highest levels.

KLOA, Inc. was asked to conduct this study to address the sixth siting criterion provided in Section 39.2 of the Illinois Environmental Protection Act. That criterion reads as follows: "The traffic patterns to or from the facility are so designed as to minimize the impact on existing traffic flows." Based on our review of the information described below, KLOA, Inc. has determined that the proposed Rantoul transfer station will comply with that siting criterion.



Site Location

Figure 1



Aerial View of Site

Figure 2

Proposed Waste Transfer Station
Rantoul, Illinois

In addition, the proposed transfer station is to be located at the existing Area Disposal waste hauling facility, which contains a storage and maintenance yard for trucks that will support the operation of the proposed transfer station. Currently, the waste collected by these collection trucks is disposed of at a remote waste disposal facility before they return to the Area Disposal waste hauling facility and are parked at the end of the day. As proposed, the waste collected by the Area Disposal collection trucks will be disposed of at the proposed transfer station and will not have to leave the Area Disposal waste hauling facility. As such, the location of the proposed transfer station on the Area Disposal waste hauling facility will result in a reduction of (1) the traffic generated by the transfer station and (2) the miles traveled by the Area Disposal collection trucks as many of the trucks will remain at the Area Disposal waste hauling facility after disposing their waste. In addition, a large percentage of the traffic generated by the proposed transfer station will consist of Area Disposal trucks that are already traversing the area roadway system.

The sections of this report present the following:

- Existing roadway conditions
- A description of the proposed transfer station and its operation
- Directional distribution of the traffic generated by the proposed transfer station
- Vehicle trip generation for the proposed transfer station
- Future traffic conditions including access to the proposed transfer station
- Traffic analyses for the weekday morning and evening peak hours
- Recommendations with respect to adequacy of the site access and adjacent roadway system

Traffic capacity analyses were conducted for the weekday morning and evening peak hours for the following conditions:

1. Year 2025 Existing Conditions - Analyzes the capacity of the existing roadway system using existing peak hour traffic volumes in the surrounding area.
2. Year 2031 No-Build Conditions – Analyzes the capacity of the roadway system using Year 2025 existing peak hour traffic volumes increased by an ambient area growth factor not attributable to any particular development.
3. Year 2031 Total Conditions – Analyzes the capacity of the roadway system using Year 2031 total traffic volumes that include the existing traffic volumes, ambient traffic growth, and the traffic estimated to be generated by the proposed transfer station.

2. Existing Conditions

The following provides a description of the geographical location of the site and a detailed description of the physical characteristics of the roadways including geometry and traffic control, adjacent land uses, and peak hour traffic flows along area roadways.

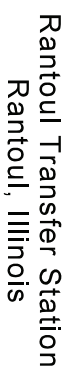
Site Location

The proposed waste transfer station is to be located at the existing Area Disposal waste hauling facility located on the north side of West Champaign Avenue service road just west of Murray Road. Currently, the Area Disposal waste hauling facility stores and maintains approximately 37 trucks and has a total of approximately 45 employees. The Area Disposal waste hauling facility is bounded by agricultural land to the north, commercial and industrial uses to the east, the West Champaign Avenue service road to the south and the I-57/West Champaign Avenue (U.S. Route 136) interchange to the south and west. Land uses in the area generally consist of vacant agricultural land to the north and commercial and industrial developments to the east and south. A Circle K fuel center is located in the northwest quadrant of the intersection of the Murray Road with the West Champaign Avenue service road. In addition, an Arby's restaurant and a Super 8 hotel are located on the east side of Murray Road north of West Champaign Avenue.

Existing Roadway System Characteristics

The characteristics of the existing roadways that serve the site are illustrated in **Figure 3** and described below.

West Champaign Avenue (U.S. Route 136) is an east-west, major arterial road that has two lanes in each direction divided by a median or a two-way, center left-turn lane and has a full access interchange with I-55. At its signalized intersection with Murray Road, West Champaign Avenue has an exclusive left-turn lane, two through lanes, and dual right-turn lanes on the eastbound approach and an exclusive left-turn lane, a through lane, and a shared through/right-turn lane on the westbound approach. West Champaign Avenue has free flow ramps in all directions to and from I-55 except for the movements from southbound I-55 to eastbound West Champaign Avenue and from northbound I-55 to westbound West Champaign Avenue. West Champaign Avenue is under the jurisdiction of the Illinois Department of Transportation (IDOT), has a posted speed limit that varies between 40 and 45 mph, and has an Average Annual Daily Traffic Volume (AADT) of 10,600 vehicles west of Murray Road and 12,700 vehicles east of Murray Road (IDOT 2023).



Existing Roadway Characteristics



Murray Road is a north-south road. North of West Champaign Avenue, Murray Road is classified as a local road and has two lanes in each direction that taper down to one-lane in each direction just north of the Circle K fuel center. South of West Champaign Avenue, Murray Road is classified as a local road and has two lanes in each direction. At its signalized intersection with West Champaign Avenue, Murray Road has a shared through/left-turn lane and a shared through/right-turn lane on the southbound approach and an exclusive left-turn lane, a through lane, and an exclusive right-turn lane on the northbound approach. At its unsignalized intersection with the Champaign Road service road, Murray Road has a through lane and a shared through/right-turn lane on the southbound approach and a shared through/left-turn lane and a through lane on the northbound approach. North of West Champaign Avenue, Murray Road is under the jurisdiction of Village of Rantoul or Ludlow Township and has an AADT volume of 500 vehicles (IDOT 2021). South of West Champaign Avenue, Murray Road is under the jurisdiction of Village of Rantoul, has a posted speed limit of 30 mph, and an AADT volume of 6,200 vehicles (IDOT 2021).

West Champaign Avenue Service Road is an east-west, local road that extends from Murray Road to the subject site and has one lane in each direction. At its unsignalized intersection with Murray Road, the West Champaign Avenue service road is offset just south of the Arby's restaurant access drive and the West Champaign Avenue service road approach has a shared left-turn/right-turn lane that is under stop sign control. The West Champaign Avenue service road is under the jurisdiction of the Village of Rantoul.

Proposed Roadway Improvements

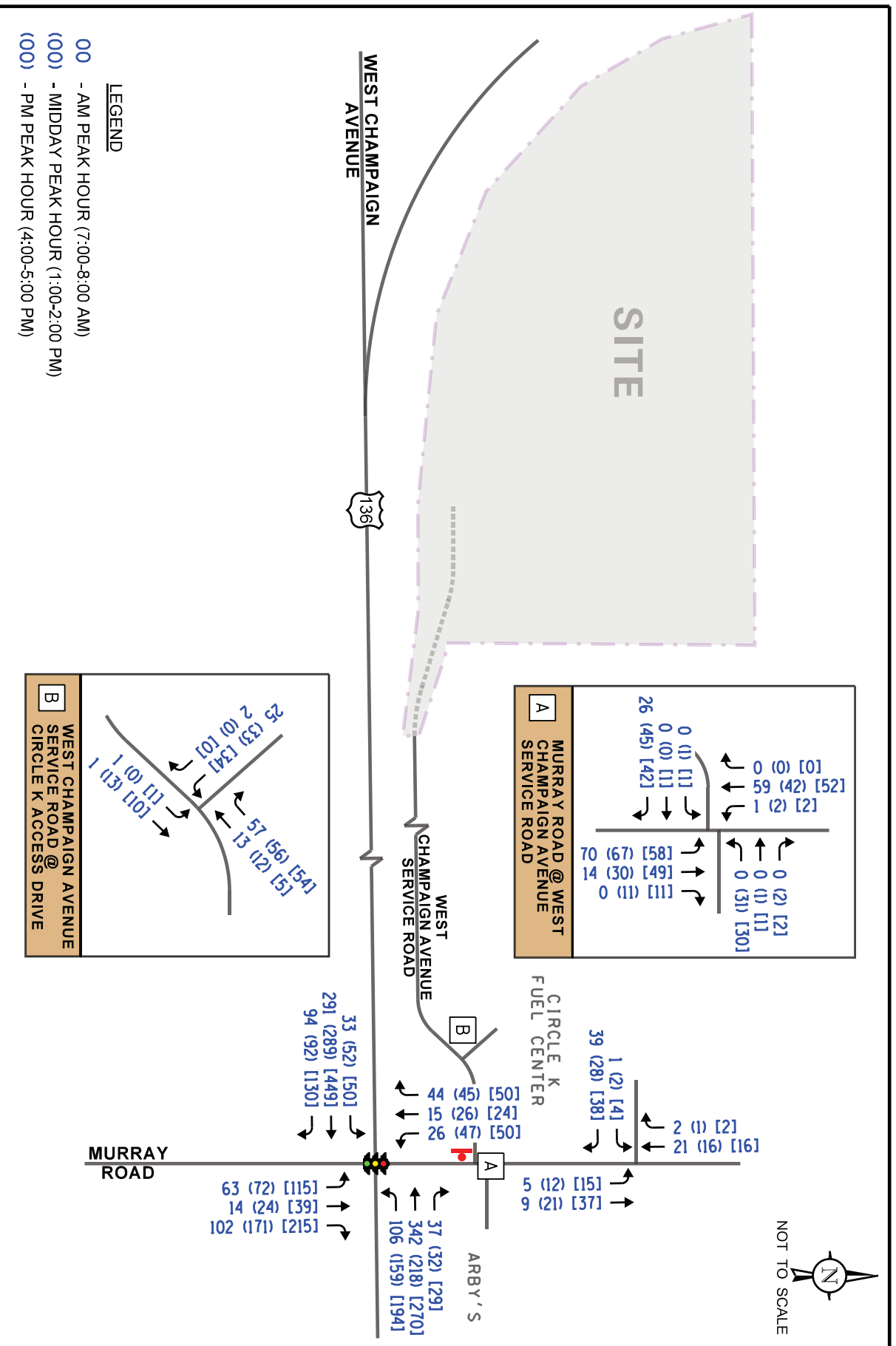
IDOT is planning to implement modifications to the traffic signal and its operation at the intersection of West Champaign Avenue with Murray Road. The modifications include upgrades to the traffic signal and phasing and timing adjustments as well as ADA enhancements. As currently proposed, the split phase signal operation on Murray Road will be eliminated and the two Murray Road approaches will operate under the same signal phases. According to IDOT, the traffic signal modifications and ADA enhancements project will be completed in 2026. A copy of the IDOT signal plans is included in the Appendix.

Existing Traffic Volumes

To determine current traffic conditions in the vicinity of the site, KLOA, Inc. conducted peak period traffic counts at the following intersections:

- Murray Road with West Champaign Avenue
- Murray Road with the West Champaign Avenue service road and the Arby's access drive
- Murray Road with the Circle K access drive
- West Champaign Avenue service road with the Circle K access drive

The traffic counts were performed on Tuesday, March 4, 2025 from 6:00 A.M. to 6:00 P.M. The results of the traffic counts showed that the weekday morning peak hour of traffic occurred from 7:00 to 8:00 A.M., the midday peak hour occurred from 1:00 to 2:00 P.M., and the evening peak hour of traffic occurred from 4:00 to 5:00 P.M. **Figure 4** illustrates the Year 2025 existing peak hour traffic volumes. Copies of the traffic count summary sheets are included in the Appendix.



Rantoul Transfer Station
Rantoul, Illinois

Existing Traffic Volumes

Crash Summary

KLOA, Inc. obtained crash data from IDOT for the most recent available past five years (2020 to 2024) for the intersection of Murray Road with West Champaign Avenue. Given the proximity of the Murray Road/West Champaign Avenue intersection to the Murray Road/West Champaign Avenue service road/Arby's access drive intersection, the crash data includes the crashes at both intersections. **Table 1** shows the crash data at the two intersections. Further, a review of the crash data revealed there were no fatalities reported at any of the intersections during the reviewed period.

Table 1

MURRAY ROAD WITH WEST CHAMPAIGN AVENUE AND THE WEST CHAMPAIGN SERVICE ROAD CRASH SUMMARY

Year	Type of Crash Frequency							Total
	Angle	Head On	Object	Rear End	Sideswipe	Turning	Other	
2020	0	0	0	1	0	5	0	6
2021	1	0	0	1	0	4	0	6
2022	0	0	0	0	0	2	0	2
2023	0	0	0	0	0	5	0	5
2024	<u>0</u>	<u>0</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>4</u>	<u>0</u>	<u>6</u>
Total	1	0	2	2	0	20	0	25
Average	>1.0	0	>1.0	>1.0	0	4.0	0	5.0

3. Traffic Characteristics of the Transfer Station

To evaluate the impact the proposed transfer station will have on the area roadway system, it was necessary to quantify the number of trips the proposed transfer station will generate during the weekday morning, midday, and evening peak hours and then determine the directions from which this traffic will approach and depart the proposed transfer station.

Proposed Transfer Station

The proposed waste transfer station is to be located at the existing Area Disposal waste hauling facility located on the north side of West Champaign Avenue service road just west of Murray Road. Currently, the Area Disposal waste hauling facility stores and maintains approximately 37 trucks and has a total of approximately 45 employees. Access to the Area Disposal waste hauling facility is provided via a single access drive located at the west end of the West Champaign Avenue service road.

As proposed, the transfer station will accept and transfer a maximum of 500 tons of MSW and recyclables per day including up to 350 tons per day of MSW and up to 150 tons per day of single stream recyclables. It is anticipated that the proposed transfer station will receive incoming MSW and recyclables from 5:00 A.M. to 6:00 P.M. Monday through Friday and 5:00 A.M. to 12:00 P.M. Saturday. The facility will typically be closed on Sundays and holidays. The proposed facility is projected to have a total of five employees in addition to the existing employees working at the hauling operations. A copy of the site plan is included in the Appendix.

Site Access and Proposed Roadway Improvements

Access to the proposed transfer station will be provided via the existing single access drive serving the Area Disposal waste hauling facility which is located at the west end of the West Champaign Avenue service road. The access drive has one inbound lane and one outbound lane.

As part of the proposed transfer station, the radius in the southwest corner of the intersection of Murray Road and the West Champaign Avenue service road will be increased to better accommodate turning truck traffic at this intersection. The Preliminary Engineering Plans, prepared by Civil & Environmental Consultants, Inc. (Preliminary Engineering Plans), which detail the proposed improvements, are provided in the Appendix. A December 12, 2025, correspondence from Foth indicates that the Village of Rantoul Director of Public Works finds the Preliminary Engineering Plans are acceptable subject to submittal and approval of final plans for construction.

Directional Distribution

The routes the collection trucks (inbound waste/recyclables) will use to travel to and from the proposed transfer station was estimated based on the intended service area of the facility and the existing travel patterns, as determined from the traffic counts. According to the operator, the service area of the transfer station will consist of Champaign County, the townships of Sullivan, Drummer, Dix, Peach, Orchard, Wall, Patton, and Button in Ford County, and Loda Township in Iroquois County.

All the outbound waste/recyclables will be transported from the proposed transfer station to a distant disposal facility. It is anticipated that outbound waste/recyclables will be transported to the Clinton Landfill, which is located in DeWitt County. The route the transfer trailers will use to travel between the proposed transfer station and the landfill is U.S. Route 136 to IL 54. **Figure 5** illustrates the estimated directional distribution for the proposed transfer station.

Trip Generation Estimates

The estimated traffic that will be generated by the proposed transfer station was based on the magnitude and character of the proposed facility and its intended service area. As proposed, the facility will accept and transfer a maximum of 500 tons of MSW and recyclables per day including up to 350 tons per day of MSW and up to 150 tons per day of single stream recyclables. Further, the facility will have a total of five employees in addition to the existing employees working at the Area Disposal waste hauling facility.

Most of the direct haul inbound MSW and recyclables will be transported to the proposed transfer station via four-ton (typical payload) roll-off trucks, six-ton (typical payload) recyclable trucks, and eight-ton (typical payload) packer trucks. Further, most of the recyclables will be transported from the proposed transfer station via 18-ton (typical payload) transfer trailers and the MSW will be transported via 24-ton (typical payload) transfer trailers. The estimate of the traffic to be generated by the proposed transfer station was based on the expected daily MSW and recyclables that will be processed and the make-up of the type of traffic that will be transporting the MSW and recyclables.

It is anticipated that the proposed transfer station will have a total of five employees in addition to the existing employees working at the Area Disposal waste hauling facility. Most employees are projected to arrive and depart the facility outside of the weekday morning and evening peak hours. However, to provide a conservative (worst-case) analysis, all five employees were assumed to arrive during the morning peak hour and depart during the evening peak hour. Beyond employee and truck traffic, the proposed transfer station will generate several trips per day due to the maintenance/service of the proposed transfer station. It is anticipated that very few, if any, of the maintenance/service vehicles will arrive at or depart from the proposed transfer station during the weekday morning or evening commuter peak hours. **Table 2** shows the traffic projected to be generated by the proposed transfer station assuming it accepts 500 tons of MSW and recyclables per day.

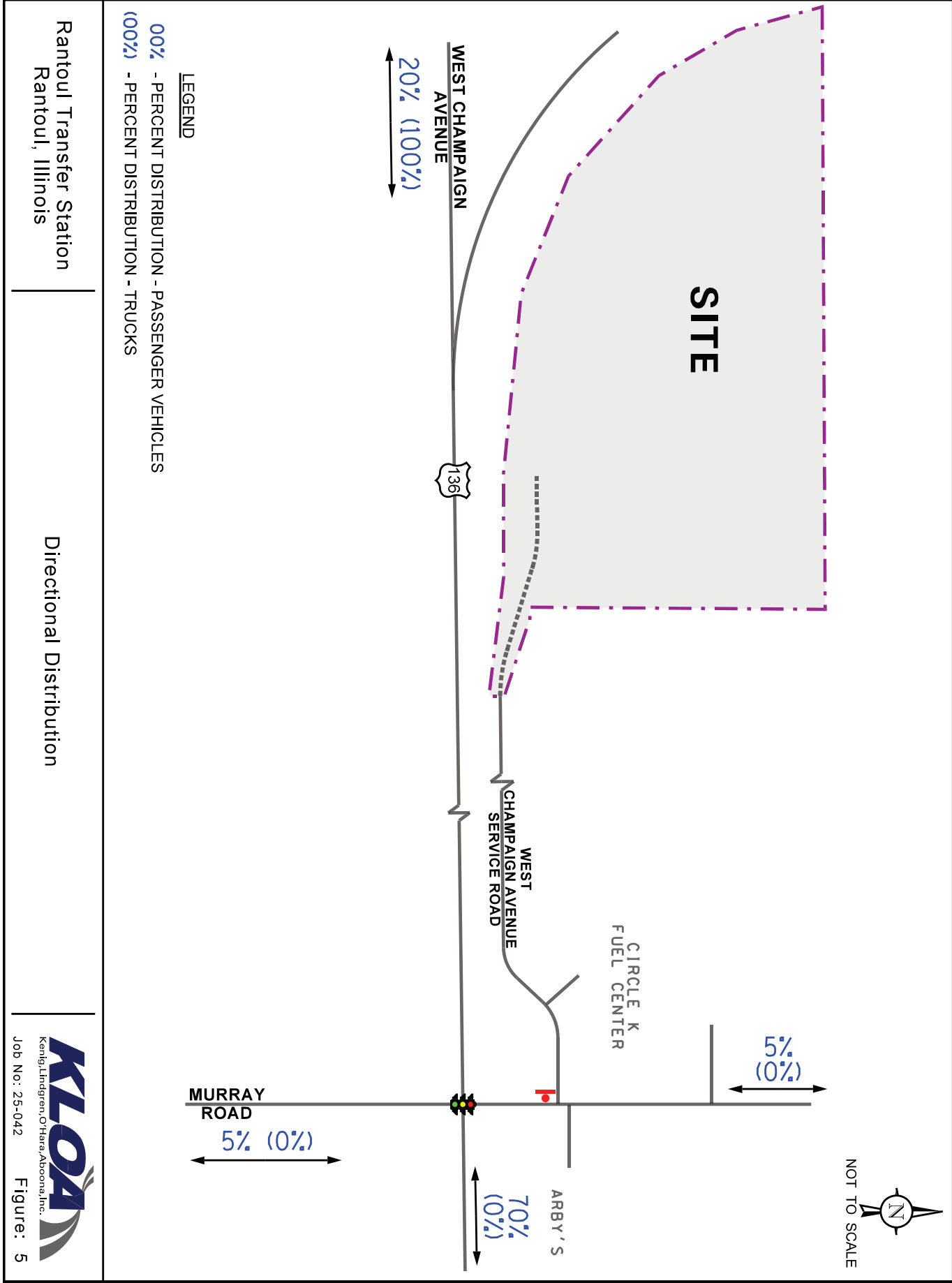


Table 2

PROPOSED TRANSFER STATION PEAK HOUR TRAFFIC VOLUMES

	Morning Peak Hour		Midday Peak Hour		Evening Peak Hour	
	In	Out	In	Out	In	Out
Municipal Solid Waste (Single-Unit Truck)	4	4	8	8	7	7
Single-Source Recyclables (Single-Unit Truck)	1	1	4	4	4	4
Transfer Trailers (Semi-Trailers)	1	1	3	3	2	2
Employees (Passenger Vehicles)	5	0	0	0	0	5
Total	11	6	15	15	13	18

Lastly, the proposed transfer station is to be located at the existing Area Disposal waste hauling facility, which contains a storage and maintenance yard for trucks that will support the operation of the proposed transfer station. Currently, the waste collected by these collection trucks is disposed of at a remote waste disposal facility before they return to the Area Disposal waste hauling facility and are parked at the end of the day. As proposed, the waste collected by the Area Disposal collection trucks will be disposed of at the proposed transfer station and will not have to leave the Area Disposal waste hauling facility. As such, the location of the proposed transfer station on the Area Disposal waste hauling facility will result in a reduction of (1) the traffic generated by the transfer station and (2) the miles travel by the Area Disposal collection trucks as many of the trucks will remain at the Area Disposal waste hauling facility after disposing their waste. In addition, a large percentage of the traffic generated by the proposed transfer station will consist of Area Disposal trucks that are already traversing the area roadway system.

4. Projected Traffic Conditions

The total projected traffic volumes include the existing traffic volumes, increase in background traffic due to growth, and the traffic estimated to be generated by the proposed subject development.

Proposed Transfer Station Traffic Assignment

The estimated weekday morning and evening peak hour traffic volumes that will be generated by the proposed transfer station assuming it processes 500 tons of MSW and recyclables per day were assigned to the roadway system in accordance with the previously described directional distribution (Figure 5). **Figure 6** illustrates the traffic to be generated by the proposed transfer station.

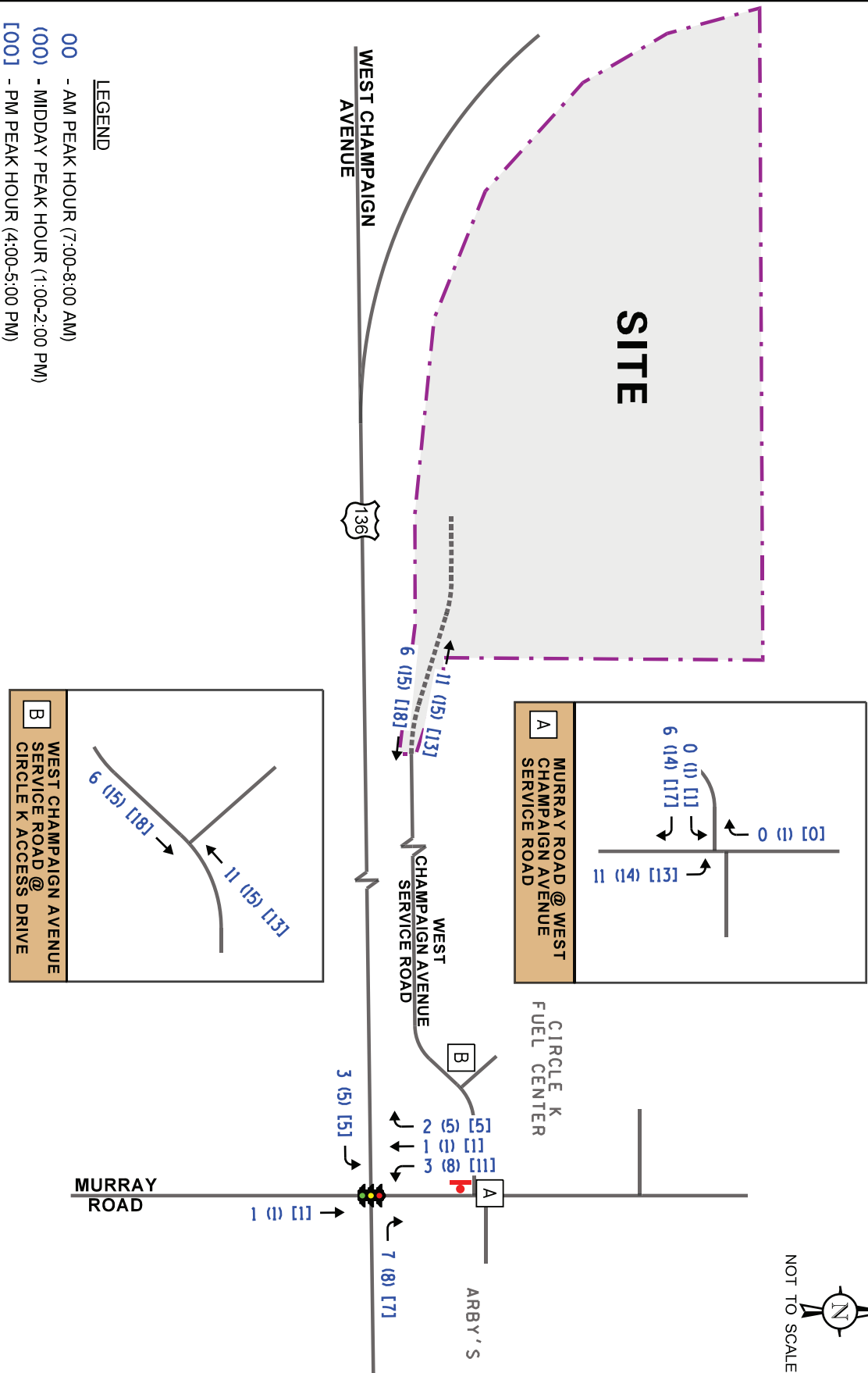
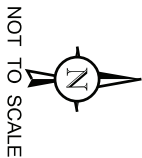
Year 2031 Background (No-Build) Traffic Volumes

The existing traffic volumes (Figure 4) were increased by a regional growth factor to account for the increase in existing traffic related to regional growth in the area (i.e., not attributable to any particular planned development). Based on historic Average Daily Traffic (ADT) volumes obtained from the IDOT web site, the traffic volumes on West Champaign Avenue have been decreasing since 2019. Nevertheless, to provide a worst-case analysis, the existing traffic volumes were increased by an annually compounded growth rate of approximately 2.0 percent per year for six years (construction year plus five years) for a total of 13 percent.

Further, it should be noted that when the traffic counts were performed, the Area Disposal hauling facility was not yet operating at the subject site. As such, the Year 2031 background traffic includes the traffic to be generated by the Area Disposal hauling facility, which was based on its operation as provided by Area Disposal. The projected Year 2031 no-build traffic volumes, which include the existing traffic volumes increased by the regional growth factor and the traffic generated by the Area Disposal facility, are illustrated in **Figure 7**.

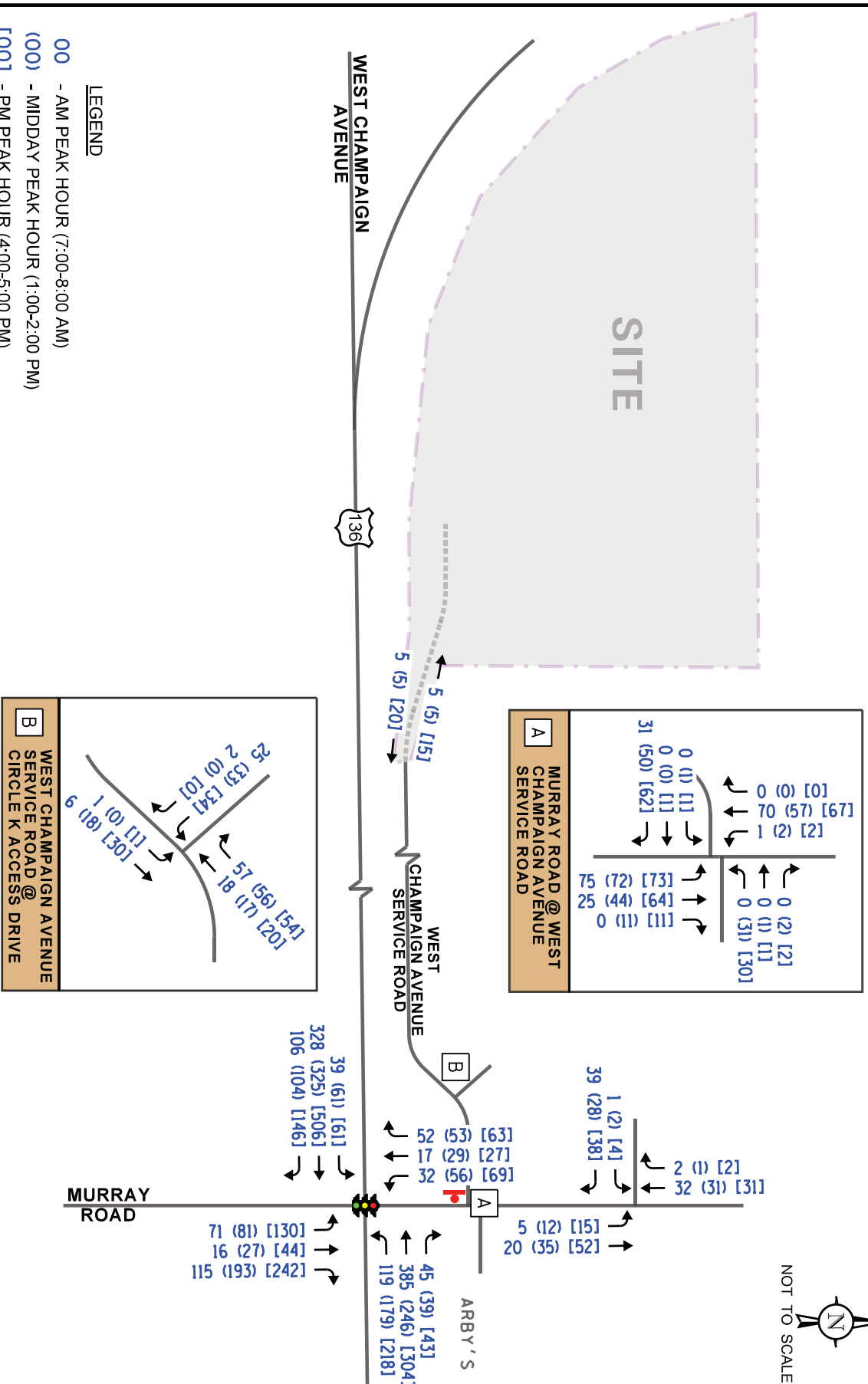
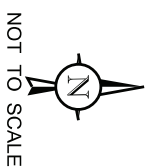
Year 2031 Total Projected Traffic Volumes

The additional traffic to be generated by the proposed transfer station assuming it processes 500 tons of MSW and recyclables per day was added to the Year 2031 no-build traffic volumes to determine the Year 2031 total projected traffic volumes, as shown in **Figure 8**.



Rantoul Transfer Station
Rantoul, Illinois

Transfer Station-Generated Traffic Volumes

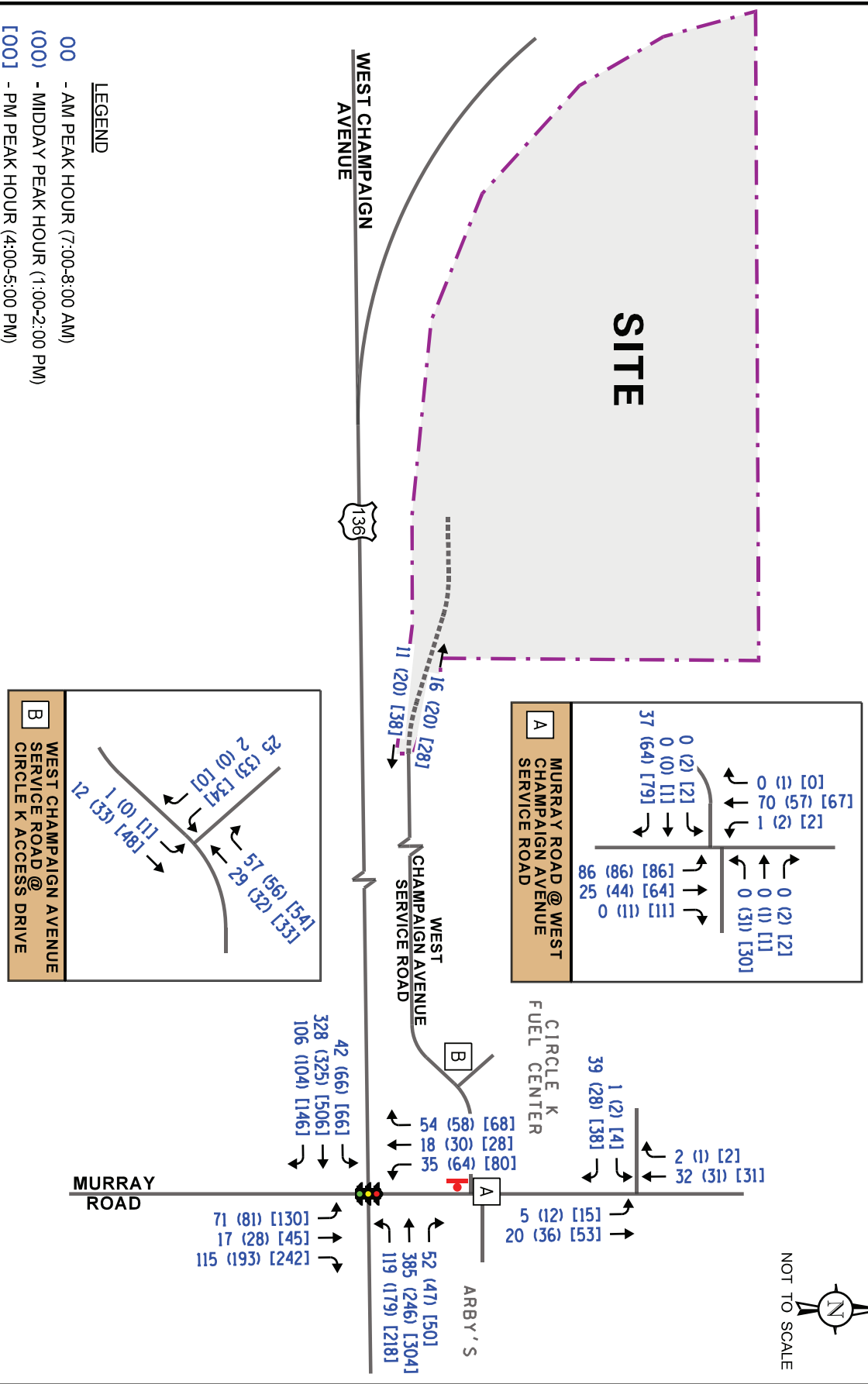
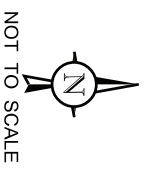


Rantoul Transfer Station
Rantoul, Illinois

Year 2031 No-Build Traffic Volumes



Job No: 25-042 Figure: 7



Rantoul Transfer Station
Rantoul, Illinois

Year 2031 Total Traffic Volumes

5. Traffic Analysis and Recommendations

The following provides an evaluation conducted for the weekday morning, midday, and evening peak hours. The analysis includes conducting capacity analyses to determine how the roadway system and access drives are projected to operate and whether any roadway improvements or modifications are required.

Traffic Analyses

Roadway and adjacent or nearby intersection analyses were performed for the weekday morning, midday, and evening peak hours for the existing Year 2025, Year 2031 no-build, and Year 2031 total conditions.

The traffic analyses were performed using the methodologies outlined in the Transportation Research Board's *Highway Capacity Manual (HCM)*, 6th Edition and analyzed using Synchro/SimTraffic 11 software. The analyses for the traffic-signal controlled intersections were accomplished using field measured cycle lengths and phasings to determine the average overall vehicle delay and levels of service.

The analyses for the unsignalized intersections determine the average control delay to vehicles at an intersection. Control delay is the elapsed time from a vehicle joining the queue at a stop sign (includes the time required to decelerate to a stop) until its departure from the stop sign and resumption of free flow speed. The methodology analyzes each intersection approach controlled by a stop sign and considers traffic volumes on all approaches and lane characteristics.

The ability of an intersection to accommodate traffic flow is expressed in terms of level of service, which is assigned a letter from A to F based on the average control delay experienced by vehicles passing through the intersection. The *Highway Capacity Manual* definitions for levels of service and the corresponding control delay for signalized intersections and unsignalized intersections are included in the Appendix of this report.

Summaries of the traffic analysis results showing the level of service and overall intersection delay (measured in seconds) for the existing Year 2025 conditions, Year 2031 no-build conditions, and Year 2031 total conditions are presented in **Tables 3** through **6**. A discussion of the intersections follows. Summary sheets for the capacity analyses are included in the Appendix.

Table 3

CAPACITY ANALYSIS RESULTS – WEST CHAMPAIGN AVENUE WITH MURRAY ROAD – SIGNALIZED

	Peak Hour	Eastbound			Westbound			Northbound			Southbound			Overall
		L	T	R	L	T/R		L	T	R	L	T	R	
Existing Conditions	Weekday Morning	B	C	A	B	C		D	D	A		C		C
		12.3	25.0	2.4	13.4	25.2		40.9	37.4	4.7		23.0		20.9
	Weekday Midday	B – 18.9			C – 22.7			B – 19.9						
		B	C	A	B	C		D	D	A		C		B
		12.8	25.1	2.3	14.7	23.3		42.0	38.2	4.6		27.4		19.8
		B – 18.8			B – 20.0			B – 17.8						
No-Build ¹ Conditions	Weekday Evening	B	C	A	B	C		D	D	A		C		C
		12.6	27.0	2.1	16.4	24.1		46.7	38.8	4.8		26.3		21.4
	Weekday Morning	C – 20.7			C – 21.1			C – 21.4						
		B	C	A	B	C		C	C	A		B		B
		12.5	25.4	3.0	13.8	25.9		23.3	32.7	4.8		22.1	14.4	19.9
		B – 19.3			C – 23.3			B – 13.6			B – 16.8			
Total ¹ Conditions	Weekday Midday	B	C	A	B	C		C	C	A		C		B
		13.0	25.6	2.9	15.4	23.7		23.8	33.2	4.3		22.9	16.3	18.1
	Weekday Evening	B – 19.2			C – 20.5			B – 12.1			B – 19.0			
		B	C	A	B	C		C	C	A		C		B
		12.9	27.8	2.6	18.1	24.6		26.0	33.7	4.6		23.1	14.8	19.8
		C – 21.4			C – 22.1			B – 14.4			B – 18.4			
Letters denotes Level of Service and delay is measured in seconds. The Year 2031 no-build and total traffic conditions assumed the traffic signal modifications at the West Champaign Avenue and Murray Road intersection.	Weekday Morning	B	C	A	B	C		C	C	A		C		B
		12.7	25.4	3.0	13.8	25.9		23.3	32.8	4.8		22.5	14.6	20.0
	Weekday Midday	B – 19.3			C – 23.3			B – 13.6			B – 17.2			
		B	C	A	B	C		C	C	A		C		B
		13.4	25.6	2.9	15.4	23.7		23.9	33.4	4.3		23.9	16.4	18.2
		B – 19.2			C – 20.6			B – 12.2			B – 19.6			
Proposed Waste Transfer Station Rantoul, Illinois	Weekday Evening	B	C	A	B	C		C	C	A		C		B
		13.3	27.8	2.6	18.1	24.6		26.1	33.8	5.1		24.6	15.1	19.9
	Total ¹ Conditions	C – 21.4			C – 22.2			B – 14.7			B – 19.4			

Letters denotes Level of Service and delay is measured in seconds.
The Year 2031 no-build and total traffic conditions assumed the traffic signal modifications at the West Champaign Avenue and Murray Road intersection.

L – Left Turn
T – Through
R – Right Turn

Proposed Waste Transfer Station
Rantoul, Illinois

Table 4
CAPACITY ANALYSIS RESULTS – YEAR 2025 EXISTING CONDITIONS
UNSIGNALIZED INTERSECTIONS

Intersection	Weekday Morning Peak Hour		Weekday Midday Peak Hour		Weekday Evening Peak Hour	
	LOS	Delay	LOS	Delay	LOS	Delay
Murray Road with West Champaign Avenue Service Road & Arby's Access Drive						
• Eastbound Approach	A	8.6	A	8.8	A	8.8
• Westbound Approach	--	--	B	11.0	B	10.7
• Northbound Left Turn	A	7.5	A	7.5	A	7.4
• Southbound Left Turn	A	7.2	A	7.3	A	7.3
Murray Road with Circle K Fuel Center Access Drive						
• Eastbound Approach	A	8.9	A	8.5	A	8.6
• Northbound Left Turn	A	7.4	A	7.7	A	7.5
West Champaign Avenue Service Road with Circle K Fuel Center Access Drive						
• Southbound Approach	A	8.9	A	8.9	A	8.9
• Eastbound Left Turn	A	7.4	--	--	A	7.3
LOS = Level of Service, Delay is measured in seconds						

Table 5
CAPACITY ANALYSIS RESULTS – YEAR 2031 NO-BUILD CONDITIONS
UNSIGNALIZED INTERSECTIONS

Intersection	Weekday Morning Peak Hour		Weekday Midday Peak Hour		Weekday Evening Peak Hour	
	LOS	Delay	LOS	Delay	LOS	Delay
Murray Road with West Champaign Avenue Service Road & Arby's Access Drive						
• Eastbound Approach	A	8.6	A	8.9	A	8.9
• Westbound Approach	--	--	B	11.4	B	11.5
• Northbound Left Turn	A	7.5	A	7.5	A	7.5
• Southbound Left Turn	A	7.3	A	7.3	A	7.4
Murray Road with Circle K Fuel Center Access Drive						
• Eastbound Approach	A	8.6	A	8.6	A	8.6
• Northbound Left Turn	A	8.3	A	7.8	A	7.5
West Champaign Avenue Service Road with Circle K Fuel Center Access Drive						
• Southbound Approach	A	8.9	A	9.0	A	9.1
• Eastbound Left Turn	A	7.4	--	--	A	7.4
LOS = Level of Service, Delay is measured in seconds						

Table 6
CAPACITY ANALYSIS RESULTS – YEAR 2031 TOTAL CONDITIONS
UNSIGNALIZED INTERSECTIONS

Intersection	Weekday Morning Peak Hour		Weekday Midday Peak Hour		Weekday Evening Peak Hour	
	LOS	Delay	LOS	Delay	LOS	Delay
Murray Road with West Champaign Avenue Service Road & Arby's Access Drive						
• Eastbound Approach	A	8.8	A	9.2	A	9.3
• Westbound Approach	--	--	B	12.0	B	12.1
• Northbound Left Turn	A	7.6	A	7.8	A	7.7
• Southbound Left Turn	A	7.3	A	7.3	A	7.4
Murray Road with Circle K Fuel Center Access Drive						
• Eastbound Approach	A	8.9	A	8.6	A	8.6
• Northbound Left Turn	A	8.3	A	7.8	A	7.5
West Champaign Avenue Service Road with Circle K Fuel Center Access Drive						
• Southbound Approach	A	9.0	A	9.2	A	9.3
• Eastbound Left Turn	A	7.4	--	--	A	7.4
LOS = Level of Service, Delay is measured in seconds						

Discussion and Recommendations

The following summarizes how the intersections currently and are projected to operate and identifies any roadway and/or traffic control improvements necessary to accommodate the development traffic.

West Champaign Avenue with Murray Road

The results of the capacity analysis indicate that this signalized intersection currently operates at an overall Level of Service (LOS) C during the weekday morning and evening peak hours and LOS B during the weekday midday peak hour. In addition, all the approaches and movements operate at LOS D or better during both peak hours.

As discussed previously, IDOT is planning to implement modifications to the traffic signal and its operation at the intersection of West Champaign Avenue with Murray Road. The modifications include upgrades to the traffic signal and phasing and timing adjustments as well as ADA enhancements. As currently proposed, the split phase signal operation on Murray Road will be eliminated and the two Murray Road approaches will operate under the same signal phases. According to IDOT, the traffic signal modifications and ADA enhancements have a start date July 2025.

Assuming the projected Year 2031 no-build traffic volumes and the Year 2031 total traffic volumes and the traffic signal modifications, this signalized intersection is projected to operate at LOS B during the weekday morning, midday peak hour, and weekday evening peak hours. Further, all movements are projected to operate at LOS C or better during all three peak hours. As such, the intersection has sufficient reserve capacity to accommodate the traffic to be generated by the proposed transfer station and no additional geometric improvements and/or traffic control modifications are required.

Murray Road with West Champaign Avenue Service Road and Arby's Access Drive

The results of the capacity analysis indicate that all the critical movements and approaches at this stop sign-controlled intersection currently operate at LOS B or better during the weekday, midday, and evening peak hours. Assuming the projected Year 2031 no-build traffic volumes all the critical movements and approaches are projected to continue to operate at LOS B or better during the three peak hours.

As part of the proposed transfer station, the radius in the southwest corner of the intersection of Murray Road and West Champaign Avenue service road will be increased to better accommodate the turning truck traffic at this intersection.

Assuming the projected Year 2031 total traffic volumes and the intersection improvements, all the critical movements and approaches are projected to continue to operate at LOS B or better during the weekday morning, midday, and evening peak hours. As such, the intersection has sufficient reserve capacity to accommodate the traffic to be generated by the proposed transfer station and no additional geometric improvements and/or traffic control modifications are required.

Murray Road with Circle K Fuel Center Access Drive

The results of the capacity analysis indicate that all the critical movements and approaches at this stop sign-controlled intersection currently operate at LOS A during the weekday morning, midday, and evening peak hours. Assuming the projected Year 2031 no-build traffic volumes and the Year 2031 total traffic volumes, all the critical movements and approaches are projected to continue to operate at LOS A during the three peak hours. As such, the intersection has sufficient reserve capacity to accommodate the traffic to be generated by the proposed transfer station and no geometric improvements and/or traffic control modifications are required.

West Champaign Avenue Service Road with Circle K Fuel Center Access Drive

The results of the capacity analysis indicate that all the critical movements and approaches at this stop sign-controlled intersection currently operate at LOS A during the weekday morning, midday, and evening peak hours. Assuming the projected Year 2031 no-build traffic volumes and the Year 2031 total traffic volumes, all the critical movements and approaches are projected to continue to operate at LOS A during the three peak hours. As such, the intersection has sufficient reserve capacity to accommodate the traffic to be generated by the proposed transfer station and no geometric improvements and/or traffic control modifications are required.

6. Conclusion

Based on the preceding analyses and recommendations, the following conclusions have been made:

- The proposed waste transfer station is to be located at the existing Area Disposal waste hauling facility located on the north side of the West Champaign Avenue service road just west of Murray Road. Currently, the Area Disposal waste hauling facility stores and maintains approximately 37 trucks and has a total of approximately 45 employees. Access to the current Area Disposal waste hauling facility is provided via a single access drive located at the west end of the West Champaign Avenue service road.
- As proposed, the transfer station will accept and transfer a maximum of 500 tons of MSW and recyclables per day including up to 350 tons of MSW and up to 150 tons of single stream recyclables. The proposed facility is projected to have a total of five employees and is anticipated to receive and transfer waste and recyclables from 5:00 A.M. to 6:00 P.M. on weekdays and 5:00 A.M. to 12:00 P.M. on Saturdays.
- Access to the facility is proposed to be provided via the existing access drive on the West Champaign Avenue service road serving the Area Disposal waste hauling facility.
- As part of the proposed transfer station, the radius in the southwest corner of the intersection of Murray Road and West Champaign Avenue service road will be increased to better accommodate the turning truck traffic at this intersection.
- The intersection capacity analyses have shown that the roadway system has sufficient reserve capacity to accommodate the additional traffic to be generated by the proposed transfer station.
- Based on KLOA, Inc.'s analyses described in this study, it is the opinion of KLOA, Inc. and its professionals, to a reasonable degree of engineering certainty, that the proposed transfer station has been designed to minimize the impact on existing traffic flow and, therefore, complies with the sixth siting criterion.

Appendix

Champaign/Murray IDOT Traffic Signal Plans
Traffic Count Summary Sheets
Site Plan
Proposed Roadway Improvement Plans
Level of Service Criteria
Capacity Analysis Summary Sheets

West Champaign Avenue/Murray Road
IDOT Traffic Signal Plans

GENERAL NOTES

LOCATION	US 150
MORTURE USE	POLYMER SURFACE MISCELLANEOUS BY GUTTER FLANG
ACCPG	4.6% @ 1985=70
DESIGN AIR VOLUME	4.6% @ 1985=70
(FOR COMPARISON ONLY)	4.6%
PERCENT FRACTIONAL WATER	4.6%
MORTURE WEIGHT	112
CULTURY MANAGEMENT	OC / OA
PROGRAM	
STABILIT SIZE	3000
WATERIAL TRANSFER	
DEVICE (REQUIRED ?)	NO

STANDARDS TO BE INCLUDED IN THE PLANS

THE EXISTING THE GAPS BETWEEN THE EXISTING PAVEMENT AND EXISTING CONCRETE CURB AND GUTTERS THAT ARE LOCATED SUBJECT FOR REUSE SHALL BE CLEANED, STRIPPED, AND REPAIRED TO THE EXISTING FINISH. THE EXISTING CONCRETE SHALL BE REPAIRED AND UNSUITABLE TO BE INCORPORATED INTO THE PROPOSED CONSTRUCTION DUE TO EXCESSIVE CRACKING OR DISTRESS SHALL BE REMOVED FLUSH WITH THE FACE OF THE EXISTING CONCRETE AND RECONSTRUCTED OR OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH ARTICLE 302.03 OF THE STANDARD SPECIFICATIONS.

THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE VARIOUS REMOVAL PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED

REMARKS:

5/12/24

STA. 241+18.389 TO 128.471
MARK IS THE CORNER OF ELEVATED LIGHT POLE FOUNDATION
POINT NUMBER = 244
ELEVATION = 788.705

5/12/24

STA. 241+32.491 / RT. 00.00
MARK IS A HAZARDOUS SINK IN CENTERLINE OF US 156 AND INTERSECTION OF US 156, W-42 EAST OF INTERSECTION OF US 156 AND MURRAY ROAD
POINT NUMBER = 245
ELEVATION = 797.737

[illegible]

SUMMARY OF QUANTITIES

LOCATION OF WORK:

FAP 709 FAP 709
U.S. 136 U.S. 136
&
MURRAY RD. MURRAY RD.
CHAMPAIGN CO. CHAMPAIGN CO.
90% FED 100% CITY
5% STATE
5% CITY

CONSTRUCTION TYPE CODE:

0021 0021
URBAN URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	18.0	18.0	
40604162	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	4.0	4.0	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	839.0	839.0	
42400800	DETECTABLE WARNING	SQ FT	72.0	72.0	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	39.0	39.0	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	117.0	117.0	
44000600	SIDEWALK REMOVAL	SQ FT	779.0	779.0	
80300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	2.0	2.0	
60600900	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-5.24	FOOT	117.0	117.0	
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	35.0	35.0	
66900530	SOIL DISPOSAL ANALYSIS	EACH	1.0	1.0	
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1.0	1.0	
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1.0	1.0	
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	18.0	18.0	

* = SPECIALTY ITEM

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES		SHEET 1 OF 5 SHEETS STA. 1+00 TO 1+100	
DATE	REVISION	SCALE	DATE	REVISION	SCALE

LOCATION OF WORK:

CONSTRUCTION TYPE CODE:

URBAN	URBAN
-------	-------

* = SPECIALTY ITEMREV. 3/25/25

LOCATION OF WORK:

FAP 709	FAP 709
U.S. 136	U.S. 136
&	&
MURRAY RD.	MURRAY RD.
CHAMPAIGN CO.	CHAMPAIGN CO.
90% FED	100% City
5% STATE	
5% CITY	
0021	0021
URBAN	URBAN

ITEM NO.	ITEM DESCRIPTION	QTY	UNIT	PRICE	TOTAL	REMARKS
87502680	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.		EACH	5.0	5.0	
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.		EACH	1.0	1.0	
87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.		EACH	1.0	1.0	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES			
SCALE	SHEET 1	OF 5	SHEET NO.	574	70234

ITEM NO.	SECTION	QTY	UNIT	PRICE	TOTAL	REMARKS
87502680	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.		EACH	5.0	5.0	
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.		EACH	1.0	1.0	
87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.		EACH	1.0	1.0	

SUMMARY OF QUANTITIES

LOCATION OF WORK:

FAP 709 U.S. 136
&
MURRAY RD. CHAMPAIGN CO. CHAMPAIGN CO.
90% FED 100% CITY
5% STATE

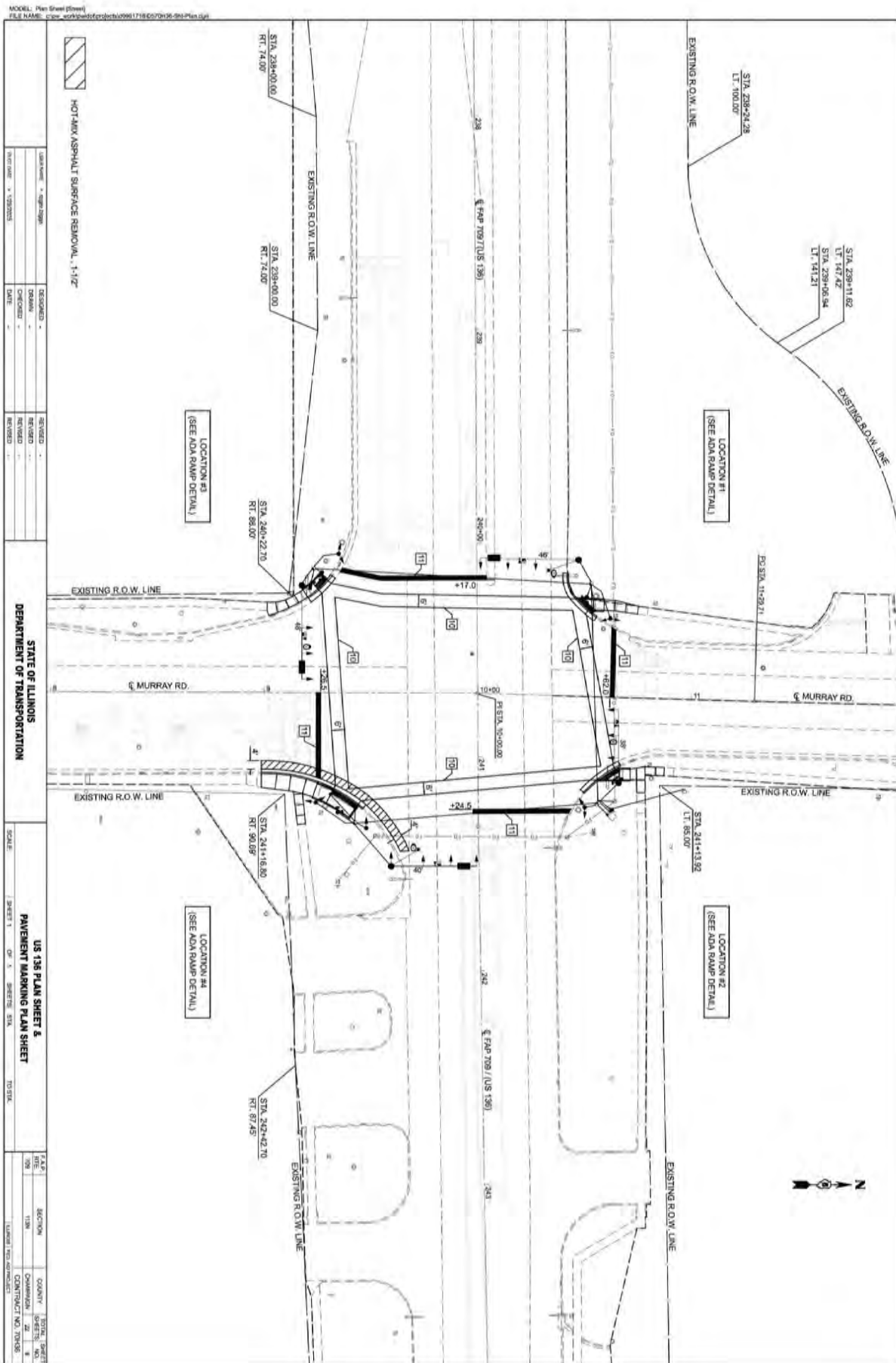
CONSTRUCTION TYPE CODE:

0021 URBAN
0021 URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
87702930	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1.0	1.0	
87702960	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1.0	1.0	
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	24.0	24.0	
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.0	3.0	
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52.0	52.0	
88940070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2.0	2.0	
88940090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7.0	7.0	
88940110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4.0	4.0	
88940120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4.0	4.0	
88940150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4.0	4.0	
88940160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1.0	1.0	
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME	EACH	8.0	8.0	
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	22.0	22.0	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0	1.0	

DRAWN BY: J. L. L. L.		CHECKED BY: J. L. L. L.		DESIGNED BY: J. L. L. L.		REVIEWED BY: J. L. L. L.		DATE: 11/10/2010	
SCALE: 1"=20'		SHEET 4 OF 5		SHEET 5 OF 5		SHEET 6 OF 5		TOTAL	
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES		SHEET NO. 22		SHEET NO. 23		SHEET NO. 24	

MODEL: NSCM-4 (2000)



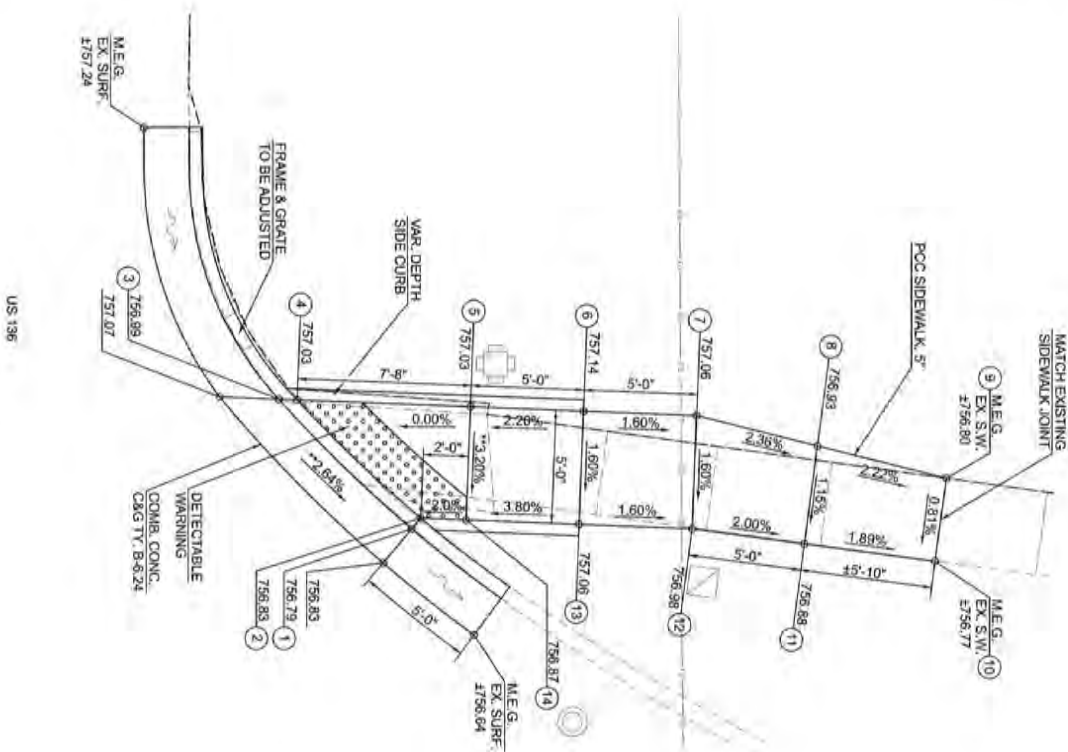
MURRAY RD.

LOCATION	STATION	OFFSET
1	240+31.56	LT 52.00
2	240+31.58	LT 52.40
3	240+26.09	LT 46.15
4	240+26.13	LT 46.97
5	240+26.48	LT 54.62
6	240+26.70	LT 59.62
7	240+26.92	LT 64.62
8	240+28.29	LT 69.96
9	240+29.75	LT 75.63
10	240+33.41	LT 75.10
11	240+32.61	LT 69.34
12	240+31.92	LT 64.39
13	240+31.69	LT 59.40
14	240+31.47	LT 54.40

NOTE:

NOTES:

1. M.E.G. = MATCH EXISTING GRADE.
2. EXISTING CONDITIONS MAY VARY SLIGHTLY IN THE FIELD. THE ENGINEER CAN ADJUST GRADES AND THE IN LOCATIONS, AS NECESSARY TO CONSTRUCT RAMP. ANY ADJUSTMENTS MADE BY THE ENGINEER SHALL MEET ALL REQUIREMENTS FOR CURB RAMPS.
3. MAX ALLOWABLE RUNNING SLOPE OF RAMP = 1:12 (8.3%), SLOPE < 7.5% PREFERRED.
4. MAX ALLOWABLE MINIMUM SLOPE OF RUNNING SPACE = 1:48 (2.1%), SLOPE < 1.5% PREFERRED.
5. MIN. ALLOWABLE WIDTH OF RAMP = 4'.
6. MAX. ALLOWABLE CROSS SLOPE OF SIDEWALK OR LANDING = 1:48 (2.1%), SLOPE < 1.5% PREFERRED.



US 136

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA PEDESTRIAN RAMP DETAIL
LOCATION #1 (N.W. QUAD / MURRAY RD.)

SCALE	SHEET #	OF #	SHEET'S STA	TO STA
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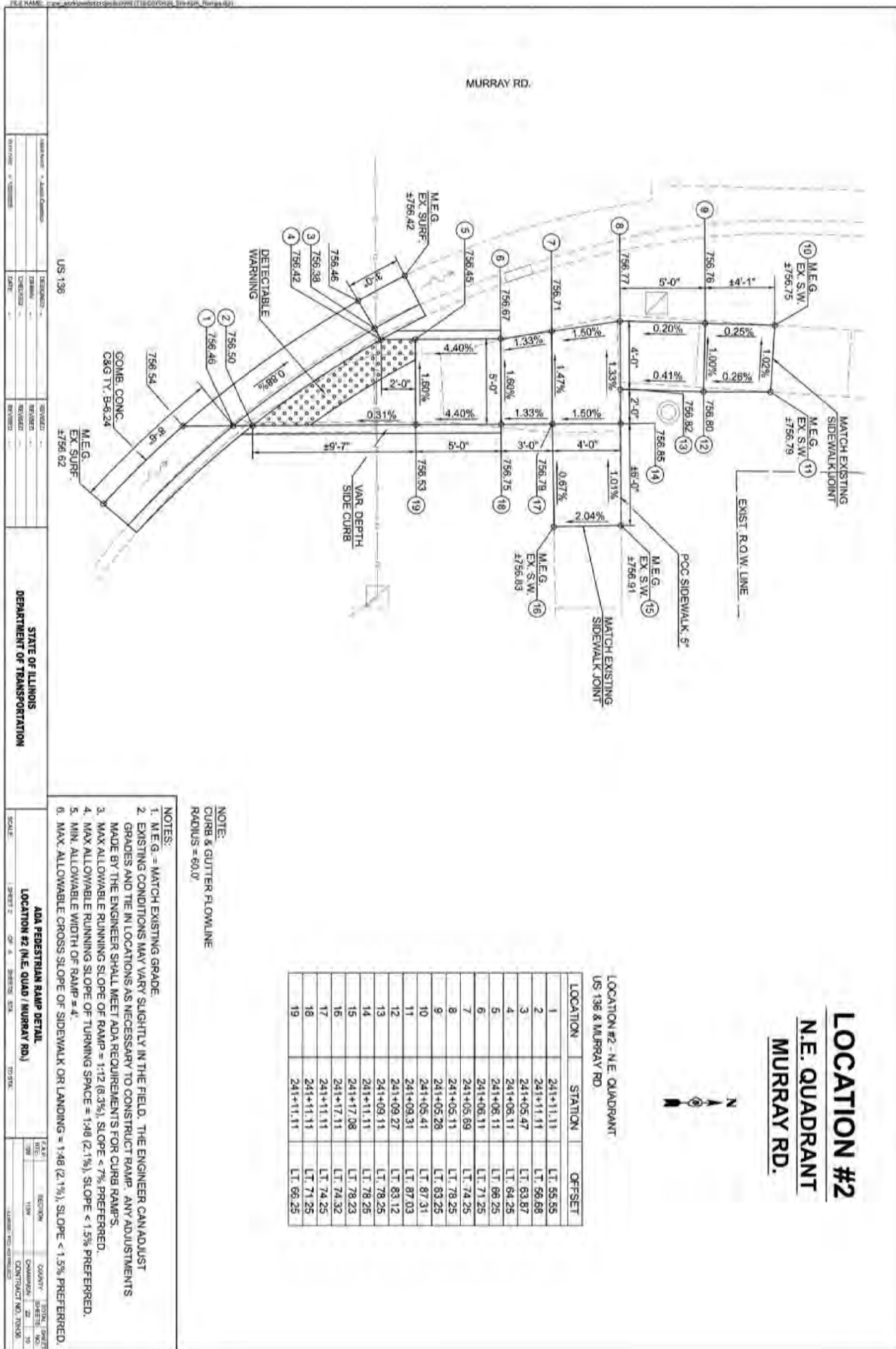
P.L.B. NO.	SECTION	QUANTITY	ESTIMATE NO.
1000	1000	22	5

CONTRACT NO. 10000

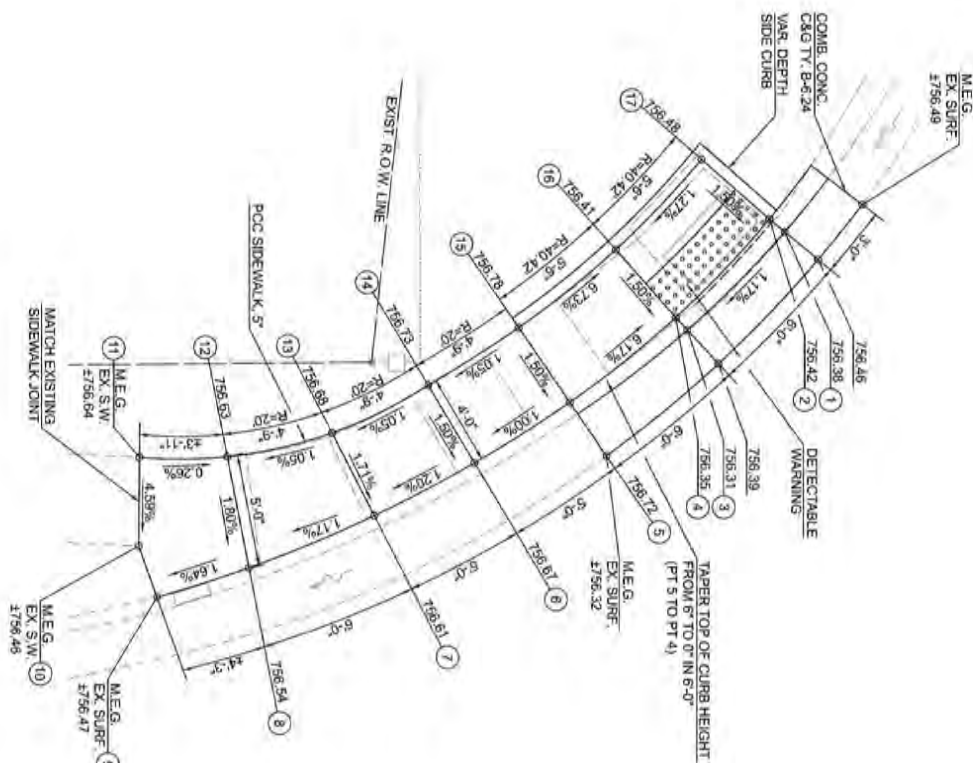
STATION	LOCATION	OFFSET
241+11.11	1	L.T. 56.55
241+11.11	2	L.T. 56.68
241+05.47	3	L.T. 63.87
241+06.11	4	L.T. 64.25
241+06.11	5	L.T. 66.25
241+06.11	6	L.T. 71.25
241+06.69	7	L.T. 74.25
241+05.11	8	L.T. 79.25
241+05.28	9	L.T. 83.25
241+05.41	10	L.T. 87.31
241+09.31	11	L.T. 87.03
241+09.27	12	L.T. 83.12
241+09.11	13	L.T. 79.25
241+11.11	14	L.T. 79.25
241+17.08	15	L.T. 79.23
241+17.11	16	L.T. 74.32
241+11.11	17	L.T. 74.25
241+11.11	18	L.T. 71.25
241+11.11	19	L.T. 66.25

NOTES:

1. MIN. ALLOWABLE CROWN OF RAMP = 4".
2. EXISTING CONDITIONS MAY VARY SLIGHTLY IN THE FIELD. THE ENGINEER CAN ADJUST GRADES AND THE LOCATIONS AS NECESSARY TO CONSTRUCT RAMP. ANY ADJUSTMENTS MADE BY THE ENGINEER SHALL MEET ALL REQUIREMENTS FOR CURB RAMPS.
3. MAX ALLOWABLE RUNNING SLOPE OF RAMP = 1:12 (8.3%). SLOPE < 7% IS PREFERRED.
4. MAX ALLOWABLE RUNNING SLOPE OF TURNING SPACE = 1:48 (2.1%). SLOPE < 1.5% IS PREFERRED.
5. MIN. ALLOWABLE WIDTH OF RAMP = 4'.
6. MIN. ALLOWABLE CROSS SLOPE OF SIDEWALK OR LANDING = 1:48 (2.1%). SLOPE < 1.5% IS PREFERRED.



LOCATION #3
S.W. QUADRANT
MURRAY RD.



MURRAY RD.

LOCATION	STATION	OFFSET
1	240+17.06	RT 69.70
2	240+16.48	RT 70.38
3	240+11.36	RT 74.04
4	240+20.80	RT 74.54
5	240+24.52	RT 79.25
6	240+27.18	RT 83.48
7	240+29.48	RT 87.92
8	240+31.75	RT 93.47
9	240+33.03	RT 97.54
10	240+30.76	RT 98.34
11	240+26.94	RT 98.29
12	240+26.83	RT 94.40
13	240+25.81	RT 88.77
14	240+23.73	RT 85.51
15	240+21.21	RT 81.49
16	240+17.79	RT 77.16
17	240+13.93	RT 73.38

NOTE:
CURB & GUTTER FLOWLINE
RADIUS = 45.0'

NOTES:

1. M.E.G. = MAXIMUM EXISTING GRADE.
2. EXISTING CONDITIONS MAY VARY SLIGHTLY IN THE FIELD. THE ENGINEER CAN ADJUST GRADES AND THE "N" LOCATIONS, AS NECESSARY TO CONSTRUCT RAMP. ANY ADJUSTMENTS MADE BY THE ENGINEER SHALL MEET ALL REQUIREMENTS FOR CURB RAMPS.
3. MAX ALLOWABLE RUNNING SLOPE OF RAMP = 1:12 (8.3%). SLOPE < 7% PREFERRED.
4. MAX ALLOWABLE TURNING SLOPE OF TURNING SPACE = 1:18 (5.6%). SLOPE < 1.5% PREFERRED.
5. MIN. ALLOWABLE WIDTH OF RAMP = 4'.
6. MIN. ALLOWABLE CROSS SLOPE OF SIDEWALK OR LANDING = 1:48 (2.1%). SLOPE < 1.5% PREFERRED.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA PEDESTRIAN RAMP DETAIL

SCALE	SHEET 1	OF 4 SHEETS	FIG. 1
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TABLE	SECTION	COUNTY	ROUTE	DATE
FILE			SHEET	NO.
20	1339	COLUMBIA	22	11

CONTRACT NO. 70436

CONTRACTOR: G.A. BROWN

LOCATION	STATION	OFFSET
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LOCATION	STATION	OFFSET
1	241+14.56	RT. 67.53
2	241+14.82	RT. 67.82
3	241+21.70	RT. 56.11
4	241+22.21	RT. 56.50
5	241+27.84	RT. 60.67
6	241+31.09	RT. 71.17
7	241+31.26	RT. 77.57
8	241+36.69	RT. 82.31
9	241+41.66	RT. 81.76
10	241+36.63	RT. 81.20
11	241+30.71	RT. 90.91
12	241+31.14	RT. 84.72
13	241+27.07	RT. 86.18
14	241+22.10	RT. 86.73
15	241+15.67	RT. 86.82
16	241+15.40	RT. 88.67
17	241+14.55	RT. 95.12
18	241+13.69	RT. 101.46
19	241+07.47	RT. 101.45
20	241+07.28	RT. 94.13
21	241+08.39	RT. 87.68
22	241+09.57	RT. 80.37
23	241+11.69	RT. 75.15

NOTES:

1. MEG. = MATTOEXISTING GRADE.
2. EXISTING CONDITIONS MAY VARY SLIGHTLY IN THE FIELD. THE ENGINEER CAN ADJUST GRADES AND THE LOCATIONS AS NECESSARY TO CONSTRUCT RAMP. ANY ADJUSTMENTS MADE BY THE ENGINEER SHALL MEET ALL REQUIREMENTS FOR CURB RAMPS.
3. MAX ALLOWABLE RUNNING SLOPE OF RAMP = 1:12 (8.3%) SLOPE < 8.3% PREFERRED.
4. MAX ALLOWABLE RUNNING SLOPE OF TURNING SPACE = 1:30 (3.3%) SLOPE < 3.5% PREFERRED.
5. MIN. ALLOWABLE WIDTH OF RAMP = 4'.
6. MIN. ALLOWABLE CROD SLOPE OF SIDEWALK OR LANDING = 1:48 (2.1%) SLOPE < 1.5% PREFERRED.



SCALE	SHEET #	OF A	SHEETS	STA.	TO STA.
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LOCATION #4 (S.E. QUAD / MURRAY RD.)

DATE	22	12
CONTRACT NO.	70-06	
SUBJECT	403 AIR PRODUCT	

(ADA) PEDESTRIAN RAMP SCHEDULE

OFFSET (FT)	QUANTITY (SQ FT)	78500201
L.T. 44.28	112.0	
L.T. 55.99	113.0	
L.T. 55.99	75.0	
RT. 61.75	90.0	
RT. 62.16	135.0	
L.T. 42.41	91.0	
L.T. 64.37	62.0	
RT. 74.12	79.0	
TOTAL =	757.0	
	SQ FT	

	LOCATION	STATION	OFFSET (FT)	STATION	OFFSET (FT)	QUANTITY (SQ FT)
US 36 AT MURRAY RD / WEST SIDE	CROSSWALK	240+23.33	RT 61.51	240+39.77	LT 44.88	112.0
US 36 AT MURRAY RD / WEST SIDE	CROSSWALK	240+23.33	RT 61.51	240+39.77	RT 44.88	112.0
US 36 AT MURRAY RD / NORTH SIDE	CROSSWALK	240+30.77	LT 44.28	241+05.33	LT 55.99	76.0
US 36 AT MURRAY RD / SOUTH SIDE	CROSSWALK	240+30.77	RT 61.51	241+05.33	RT 55.99	90.0
US 36 AT MURRAY RD / WEST SIDE	STOP BAR	240+16.00	RT 3.11	240+08.63	RT 42.16	135.0
US 36 AT MURRAY RD / EAST SIDE	STOP BAR	241+05.41	RT 3.11	241+25.11	LT 42.41	91.0
US 36 AT MURRAY RD / NORTH SIDE	STOP BAR	240+14.66	LT 62.91	240+76.65	LT 64.37	62.0
US 36 AT MURRAY RD / SOUTH SIDE	STOP BAR	240+70.19	RT 74.75	241+09.64	RT 74.72	79.0
TOTAL=						757.0
						SQ FT

78001130 PAINT PAVEMENT MARKING - LINE 6"

70300241 TEMPORARY PAVEMENT MARKING - LINE 6" - PAINT

LOCATION	STATION	QUANTITY	QUANTITY	COLOR
		76001180	76305281	
		FT	FT	
US 36 AT MURRAY RD / WEST SIDE	RT	241+24.50	57.0	WHITE
US 36 AT MURRAY RD / EAST SIDE	LT	241+24.50	47.0	WHITE
US 36 AT MURRAY RD / NORTH SIDE	LT	10+82.50	33.0	WHITE
US 36 AT MURRAY RD / SOUTH SIDE	LT	9+26.50	41.0	WHITE
TOTAL =			180.0	
			FT	FT

78001180 PAINT PAVEMENT MARKING - LINE 24"

70300281 TEMPORARY PAVEMENT MARKING - LINE 24" - PAINT

LOCATION	STATION	765051180 L.F.	765052281 L.F.	COLOR
US 36 AT MURRAY RD / WEST SIDE	RT	54.0	47.0	WHITE
US 36 AT MURRAY RD / EAST SIDE	L	241+14.60	47.0	WHITE
US 36 AT MURRAY RD / NORTH SIDE	L	10+62.50	33.0	WHITE
US 36 AT MURRAY RD / SOUTH SIDE	T	9+65.50	41.0	WHITE
TOTAL =		180.0	180.0	
		FT	FT	

HOT-MIX ASPHALT SCHEDULE

HMA SURFACE THICKNESS (INCHES)	HMA SURFACE REMOVAL, 1-1/2" (SQ YD)	BITUMINOUS MATERIAL TACK COAT (POUND)	POLY HMA SURFACE COURSE IL-9.5, MIX "D" N70 (TON)	4.0594162
1.5	38.22	17.20	3.21	
TOTAL =	38.22	17.20	3.21	
USE =	39.00	18.00	4.00	
		SO YD	POUND	TON

NOTE: THE INTENT IS TO MILL TO AN 1-1/2" DEPTH BELOW THE GUTTER FLAG TO REMOVE THE HMA MATERIAL. THAT IS SHOWING AGAINST THE CURB & GUTTER. THIS WORK SHALL ONLY BE COMPLETED IN THE S. E. QUADRANT OF US 136 & MURRAY RD.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SCHEDULES

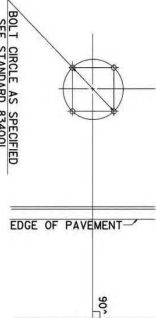
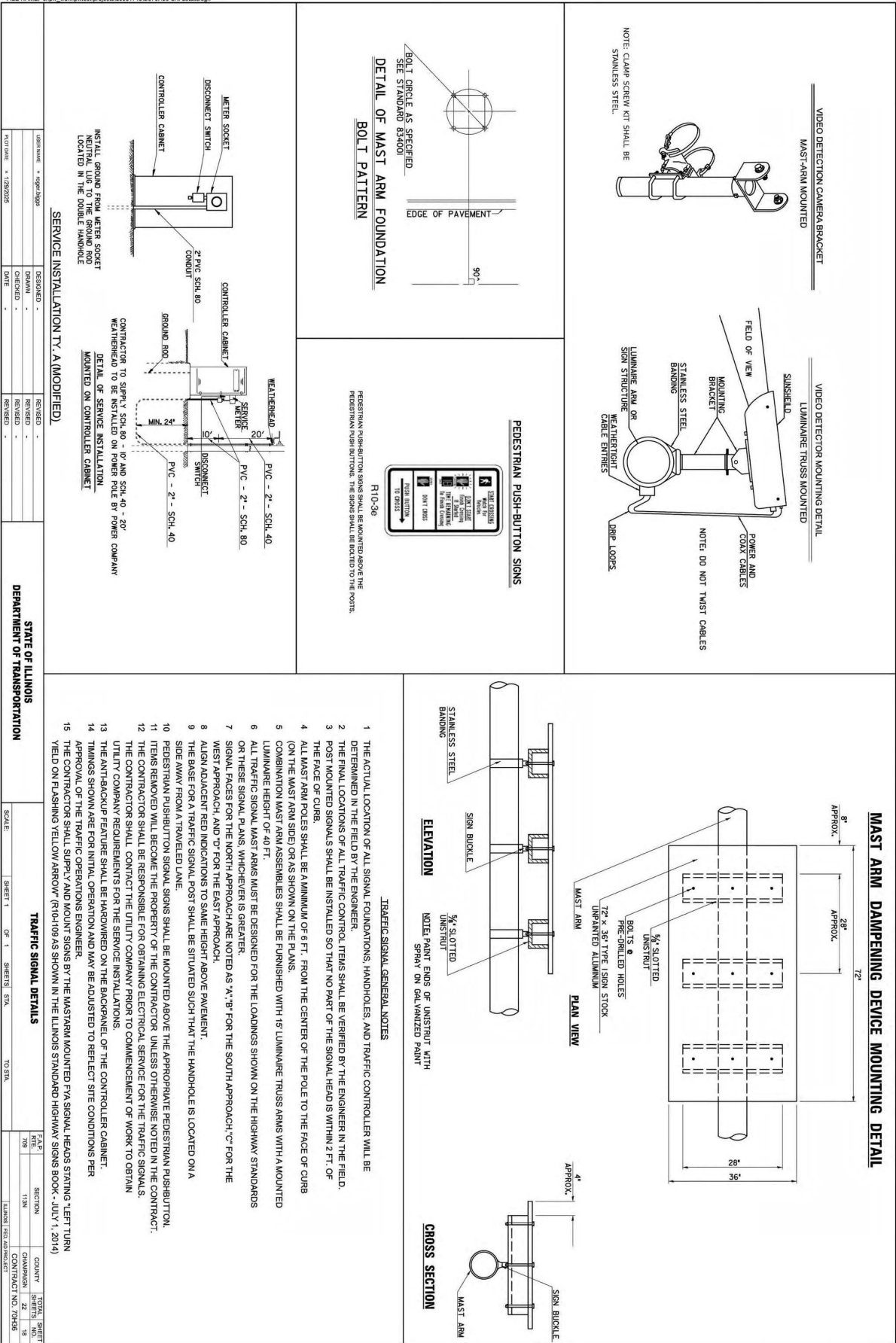
TRAFFIC SIGNAL SCHEDULES									
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION									
SCHEDULE OF QUANTITIES									
SHEET 2 OF 7 SHEETS STA. TO STA.									
P.L.S. SECTION COUNTY TOWNSHIP CONTRACT NO. TOWNSHIP									
PROJECT NO. 123456789									
SHEET NO. 1									
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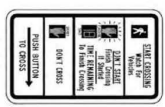
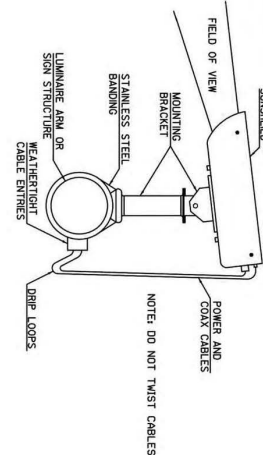




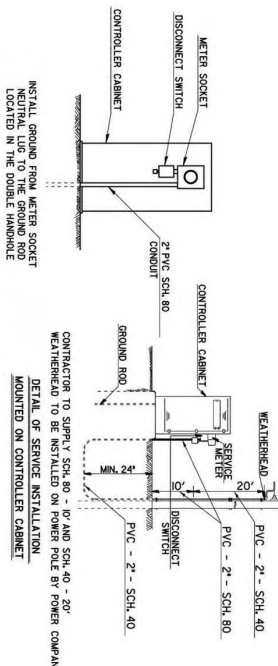
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DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN



PEDESTRIAN PUSH-BUTTON SIGNS SHALL BE MOUNTED ABOVE THE PEDESTRIAN PUSH-BUTTON. THE SIGNS SHALL BE BOLTED TO THE POSTS.



SERVICE INSTALLATION TYPICAL (MODIFIED)

DESIGNED -	REVIEWED -
CHECKED -	REVIEWED -
DATE -	DATE -

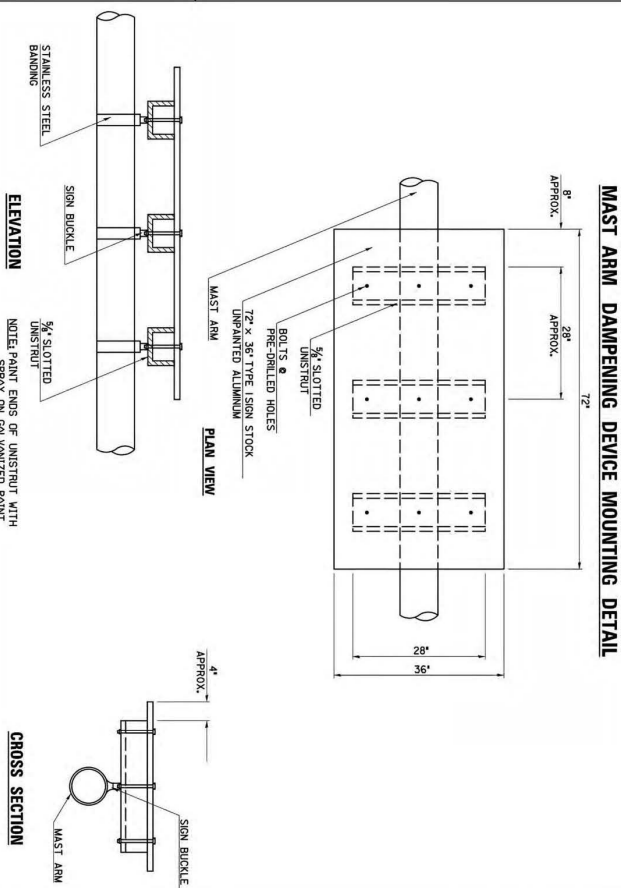
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.
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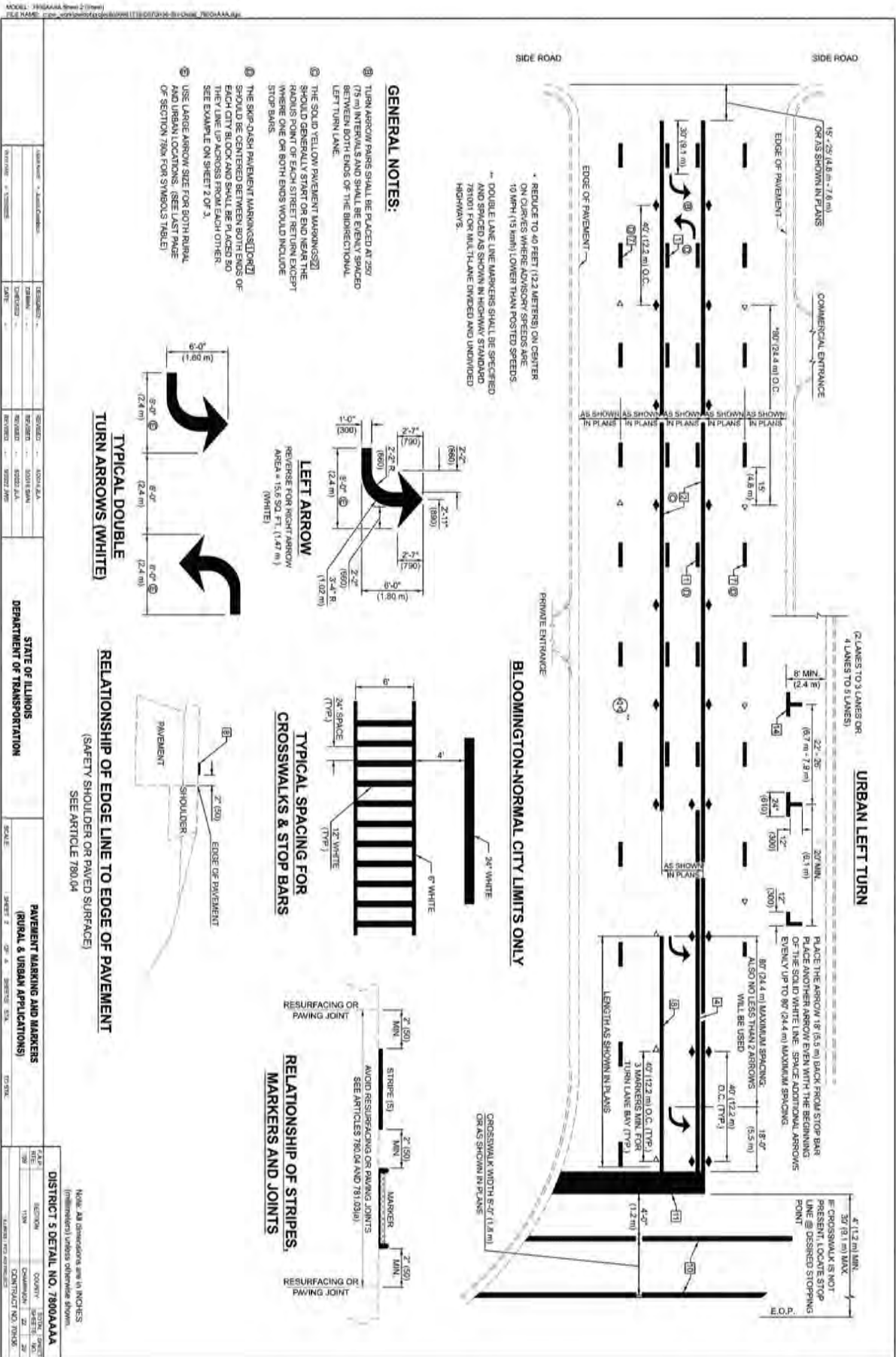
DATE	SECTION	COUNTY	TOTAL SHEETS
7/10	11N	CHAMPAIGN	22
		CONTRACT NO. 7045	18

TRAFFIC SIGNAL GENERAL NOTES

1. THE ACTUAL LOCATION OF ALL SIGNAL FOUNDATIONS, HANDHOLES, AND TRAFFIC CONTROLLER WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. THE FINAL LOCATIONS OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.
3. POST MOUNTED SIGNALS SHALL BE INSTALLED SO THAT NO PART OF THE SIGNAL HEAD IS WITHIN 2 FT. OF THE FACE OF CURB.
4. ALL MAST ARM POLES SHALL BE A MINIMUM OF 6 FT. FROM THE CENTER OF THE POLE TO THE FACE OF CURB (ON THE MAST ARM SIDE) OR AS SHOWN ON THE PLANS.
5. COMBINATION MAST ARM ASSEMBLIES SHALL BE FURNISHED WITH 15 LUMINAIRE TRUSS ARMS WITH A MOUNTED LUMINAIRE HEIGHT OF 40 FT.
6. ALL TRAFFIC SIGNAL MAST ARMS MUST BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS, WHICHEVER IS GREATER.
7. SIGNAL FACES FOR THE NORTH APPROACH ARE NOTED AS "N," "B" FOR THE SOUTH APPROACH, "C" FOR THE WEST APPROACH, AND "T" FOR THE EAST APPROACH.
8. ALIGN ADJACENT RED INDICATIONS TO SAME HEIGHT ABOVE PAVEMENT.
9. THE BASE FOR A TRAFFIC SIGNAL POST SHALL BE SITUATED SUCH THAT THE HANDHOLE IS LOCATED ON A SIDE AWAY FROM A TRAVELED LANE.
10. PEDESTRIAN PUSHBUTTON SIGNAL SIGNS SHALL BE MOUNTED ABOVE THE APPROPRIATE PEDESTRIAN PUSHBUTTON. ITEMS REMOVED WILL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED IN THE CONTRACT.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNALS.
12. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO COMMENCEMENT OF WORK TO OBTAIN UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATIONS.
13. THE ANTI-BACKUP FEATURE SHALL BE HARDWIRED ON THE BACKPANEL OF THE CONTROLLER CABINET.
14. TIMINGS SHOWN ARE FOR INITIAL OPERATION AND MAY BE ADJUSTED TO REFLECT SITE CONDITIONS PER APPROVAL OF THE TRAFFIC OPERATIONS ENGINEER.
15. THE CONTRACTOR SHALL SUPPLY AND MOUNT SIGNS BY THE MASTARM MOUNTED PVA SIGNAL HEADS STAYING LEFT TURN YIELD ON FLASHING YELLOW ARROW (R10-109 AS SHOWN IN THE ILLINOIS MOUNTED HIGHWAY SIGNS BOOK - JULY 1, 2014)









GENERAL NOTES



ISLAND

* FOR RIGHT TURN LANE AND ISLAND STRIPING CONSULT GEOMETRICS ENGINEER

[illegible]



RAILROAD CROSSING WITH INTERCONNECT ONLY

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



SUPPLEMENT PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

- ## ALTERNATE SIGNS



ALTERNATE SIGNS

- [illegible]

THE TRANSVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH, ON MULTILANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE PRRS AND CIVILS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (WHICH IS PLACED BY TABLE 16-1), CONSIDERATION IS TO BE MADE.

DISTRICT 5 DETAIL NO. 7800AAAA			
PLAN NOTE	SECTION	COUNTY	TOTAL SHEET NO.
20	11309	COLUMBIA	22 22
CONTRACT NO. 70506			
SCALE: 1"=40' AND 1"=80'			

Traffic Count Summary Sheets

Champaign Avenue Service Road with Circle K ... - TMC

Tue Mar 4, 2025

Full Length (6 AM-6 PM)

All Classes (Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road)

All Movements

ID: 1273593, Location: 40.308729, -88.175177



Provided by: Kenig Lindgren O'Hara Aboona, Inc.

9575 W. Higgins Rd., Suite 400,
Rosemont, IL, 60018, US

Leg Direction	Circle K Access Drive Eastbound					Champaign Avenue Service Drive Westbound					Champaign Avenue Service Drive Northbound					
Time	T	R	U	App	Ped*	L	T	U	App	Ped*	L	R	U	App	Ped*	Int
2025-03-04 6:00AM	5	0	0	5	0	2	9	0	11	0	0	1	0	1	0	17
6:15AM	3	0	0	3	0	0	9	0	9	0	0	1	0	1	0	13
6:30AM	4	0	0	4	0	4	8	0	12	0	0	0	0	0	0	16
6:45AM	4	1	0	5	0	1	6	0	7	0	0	0	0	0	0	12
Hourly Total	16	1	0	17	0	7	32	0	39	0	0	2	0	2	0	58
7:00AM	8	0	0	8	0	2	7	0	9	0	1	0	0	1	0	18
7:15AM	5	0	0	5	0	2	17	0	19	0	0	0	0	0	0	24
7:30AM	5	1	0	6	0	2	17	0	19	0	0	0	0	0	0	25
7:45AM	7	1	0	8	1	6	14	0	20	2	0	1	0	1	0	29
Hourly Total	25	2	0	27	1	12	55	0	67	2	1	1	0	2	0	96
8:00AM	4	0	0	4	0	7	18	0	25	0	0	3	0	3	0	32
8:15AM	7	1	0	8	0	4	11	0	15	0	0	3	0	3	0	26
8:30AM	4	1	0	5	0	0	12	0	12	0	1	1	0	2	0	19
8:45AM	5	0	0	5	3	1	13	0	14	0	0	2	0	2	0	21
Hourly Total	20	2	0	22	3	12	54	0	66	0	1	9	0	10	0	98
9:00AM	6	2	1	9	1	1	18	0	19	0	0	1	0	1	0	29
9:15AM	8	0	0	8	0	3	15	0	18	0	1	4	0	5	0	31
9:30AM	6	0	0	6	0	4	4	0	8	0	0	5	0	5	0	19
9:45AM	3	0	0	3	0	3	11	0	14	0	0	2	0	2	0	19
Hourly Total	23	2	1	26	1	11	48	0	59	0	1	12	0	13	0	98
10:00AM	6	1	0	7	0	2	15	0	17	0	1	6	0	7	0	31
10:15AM	7	0	0	7	0	4	7	0	11	0	0	3	0	3	0	21
10:30AM	5	0	0	5	0	2	10	0	12	0	0	3	0	3	0	20
10:45AM	7	0	0	7	0	2	19	0	21	0	0	5	0	5	0	33
Hourly Total	25	1	0	26	0	10	51	0	61	0	1	17	0	18	0	105
11:00AM	12	0	0	12	0	3	21	0	24	0	0	3	0	3	0	39
11:15AM	8	0	0	8	0	5	9	0	14	0	1	2	0	3	0	25
11:30AM	10	0	0	10	0	0	10	0	10	0	0	4	0	4	0	24
11:45AM	1	0	0	1	0	8	11	0	19	0	0	5	0	5	0	25
Hourly Total	31	0	0	31	0	16	51	0	67	0	1	14	0	15	0	113
12:00PM	14	0	0	14	0	3	17	0	20	0	0	3	0	3	0	37
12:15PM	14	0	0	14	0	3	12	0	15	0	1	8	0	9	0	38
12:30PM	6	0	0	6	0	4	14	0	18	0	0	2	0	2	0	26
12:45PM	10	0	0	10	0	3	12	0	15	0	1	3	0	4	0	29
Hourly Total	44	0	0	44	0	13	55	0	68	0	2	16	0	18	0	130
1:00PM	7	0	0	7	0	5	15	0	20	0	0	4	0	4	0	31
1:15PM	14	0	0	14	0	2	15	0	17	0	0	4	0	4	0	35
1:30PM	8	0	0	8	0	3	13	0	16	0	0	3	0	3	0	27
1:45PM	4	0	0	4	0	3	12	0	15	0	0	2	0	2	0	21
Hourly Total	33	0	0	33	0	13	55	0	68	0	0	13	0	13	0	114
2:00PM	10	1	0	11	1	2	17	0	19	2	1	2	0	3	0	33
2:15PM	4	0	0	4	0	3	7	0	10	0	0	3	0	3	0	17
2:30PM	12	1	0	13	0	2	23	0	25	1	0	2	0	2	0	40
2:45PM	13	1	0	14	0	1	13	0	14	0	0	5	0	5	0	33
Hourly Total	39	3	0	42	1	8	60	0	68	3	1	12	0	13	0	123
3:00PM	5	0	0	5	0	1	22	0	23	0	0	2	0	2	0	30
3:15PM	12	2	0	14	0	1	14	0	15	0	0	3	0	3	0	32
3:30PM	11	0	0	11	0	1	16	0	17	0	0	4	0	4	0	32
3:45PM	4	1	0	5	0	2	15	0	17	0	0	1	0	1	0	23
Hourly Total	32	3	0	35	0	5	67	0	72	0	0	10	0	10	0	117
4:00PM	4	0	0	4	0	3	13	0	16	0	0	4	0	4	0	24
4:15PM	7	0	0	7	0	0	12	0	12	0	0	1	0	1	0	20

Leg Direction	Circle K Access Drive Eastbound					Champaign Avenue Service Drive Westbound					Champaign Avenue Service Drive Northbound					
Time	T	R	U	App	Ped*	L	T	U	App	Ped*	L	R	U	App	Ped*	Int
4:30PM	10	0	0	10	0	1	16	0	17	0	1	2	0	3	0	30
4:45PM	13	0	0	13	0	0	13	0	13	0	0	2	0	2	0	28
Hourly Total	34	0	0	34	0	4	54	0	58	0	1	9	0	10	0	102
5:00PM	5	0	0	5	0	0	19	0	19	0	0	6	0	6	0	30
5:15PM	11	0	0	11	0	0	18	0	18	0	0	0	0	0	0	29
5:30PM	2	0	0	2	0	0	9	0	9	0	0	0	0	0	0	11
5:45PM	3	0	0	3	0	1	12	0	13	0	0	0	0	0	0	16
Hourly Total	21	0	0	21	0	1	58	0	59	0	0	6	0	6	0	86
Total	343	14	1	358	6	112	640	0	752	5	9	121	0	130	0	1240
% Approach	95.8%	3.9%	0.3%	-	-	14.9%	85.1%	0%	-	-	6.9%	93.1%	0%	-	-	-
% Total	27.7%	1.1%	0.1%	28.9%	-	9.0%	51.6%	0%	60.6%	-	0.7%	9.8%	0%	10.5%	-	-
Lights	335	13	1	349	-	72	628	0	700	-	6	85	0	91	-	1140
% Lights	97.7%	92.9%	100%	97.5%	-	64.3%	98.1%	0%	93.1%	-	66.7%	70.2%	0%	70.0%	-	91.9%
Single-Unit Trucks	6	1	0	7	-	8	8	0	16	-	1	6	0	7	-	30
% Single-Unit Trucks	1.7%	7.1%	0%	2.0%	-	7.1%	1.3%	0%	2.1%	-	11.1%	5.0%	0%	5.4%	-	2.4%
Articulated Trucks	1	0	0	1	-	31	1	0	32	-	1	30	0	31	-	64
% Articulated Trucks	0.3%	0%	0%	0.3%	-	27.7%	0.2%	0%	4.3%	-	11.1%	24.8%	0%	23.8%	-	5.2%
Buses	0	0	0	0	-	0	1	0	1	-	0	0	0	0	-	1
% Buses	0%	0%	0%	0%	-	0%	0.2%	0%	0.1%	-	0%	0%	0%	0%	-	0.1%
Bicycles on Road	1	0	0	1	-	1	2	0	3	-	1	0	0	1	-	5
% Bicycles on Road	0.3%	0%	0%	0.3%	-	0.9%	0.3%	0%	0.4%	-	11.1%	0%	0%	0.8%	-	0.4%
Pedestrians	-	-	-	-	6	-	-	-	-	5	-	-	-	-	0	
% Pedestrians	-	-	-	-	100%	-	-	-	-	100%	-	-	-	-	-	-

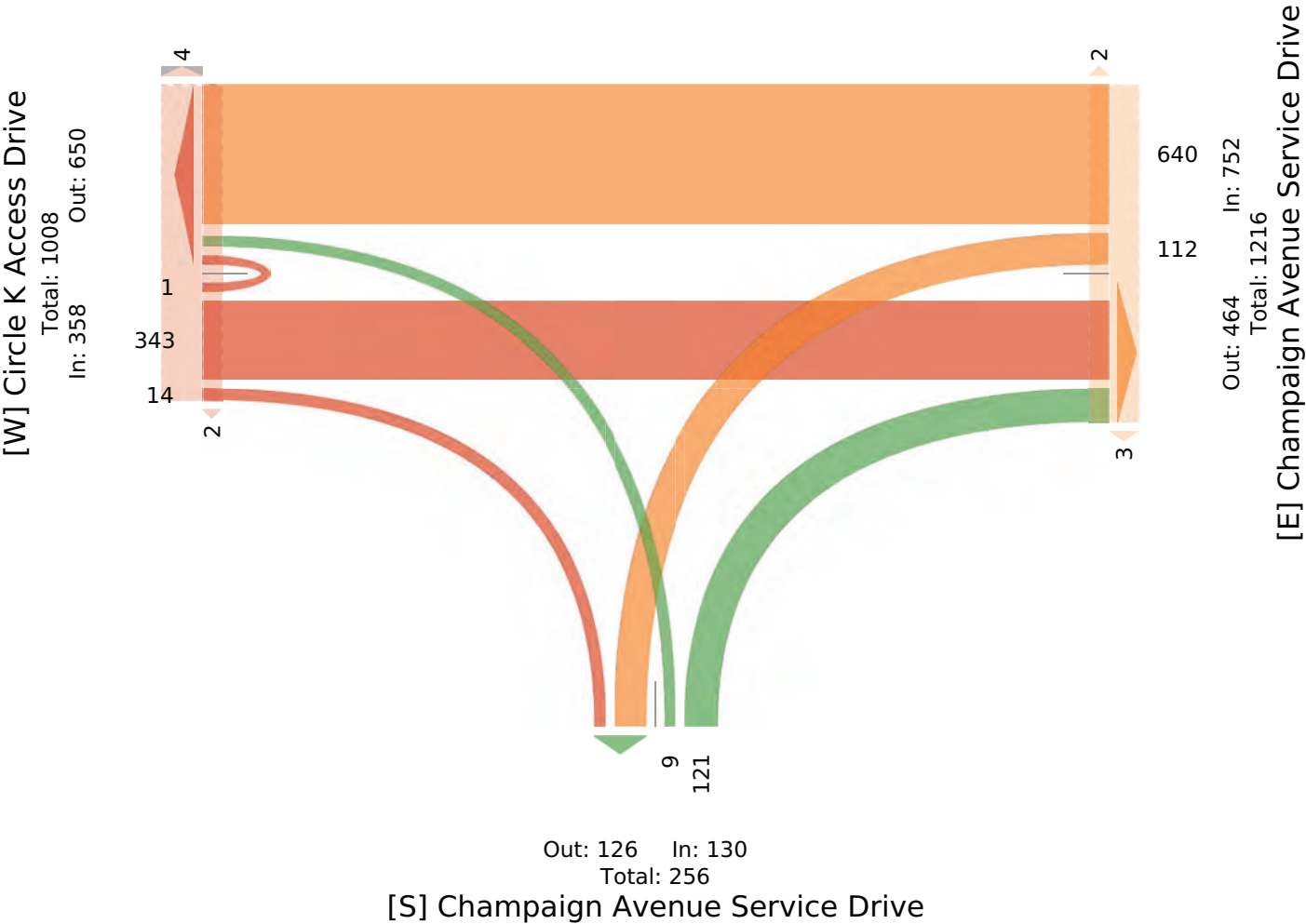
* Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Champaign Avenue Service Road with Circle K ... - TMC

Tue Mar 4, 2025
Full Length (6 AM-6 PM)
All Classes (Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road)
All Movements
ID: 1273593, Location: 40.308729, -88.175177



Provided by: Kenig Lindgren O'Hara Aboona, Inc.
9575 W. Higgins Rd., Suite 400,
Rosemont, IL, 60018, US



Champaign Avenue Service Road with Circle K ... - TMC

Tue Mar 4, 2025

FM l eaL ngth0 FM (6th0 FMA

F – P-a))e) nCsi SÜ, cski -e(d ksUTruHL), FrtsBü-aläy TruHL), o u)e), l eye)üsak),
o sRBe) vk nwayA

F – MvI eDekÜ

:1 t 72gh53h, CvBašvkt 409h06g23, (669g57gg

l rvl syey . Rt 8 eksi Cskyi rek b Kora F . vvka,
:kB35g5 ' 9Osi i sk) my9 cusl 400,
mv)eDvkÜ:C, H0076, d c

Cei 1 sreBšvk	P s rBe 8 F BBe)) 1 rsl e pa)Uvuky				P SaDWisi k F I ekue cerl sB 1 rsl e ' e)Uvuky				P SaDWisi k F I ekue cerl sB 1 rsl e Evrš. vuky						
TsDe	T	m	d	F VW l eyN	C	T	d	F VW l eyN	C	m	d	F VW l eyN	:kU		
2025(0h(04 gth0F M	5	7	0	H 0	2	7g	0	73 0	0	0	0	0 0	25		
gt45F M	g	7	0	6 7	H	74	0	20 2	0	7	0	7 0	23		
6t00F M	4	0	0	4 0	g	76	0	25 0	0	h	0	h 0	h2		
6t75F M	g	7	0	6 0	4	77	0	75 0	0	h	0	h 0	2H		
Tvš-	2h	h	0	2H 7	73	H0	0	g3 2	0	g	0	g 0	772		
* F VWaBš	669*	779*	0*	((	249*	g59*	0*	((	0*	700*	0*	((	(		
* Tvš-	209*	29*	0*	2h9*	(	7g9*	5h9*	0*	g09*	(	0*	Hh*	0*	Hh*	(
l O%	09g6H	09g50	(	09g67	(	09g3	09g6	(	09g7h	(	(	09g6h	(	09g6g	(
Csi SÜ	22	h	0	25	(	7h	5g	0	g0	(	0	2	0	2	(
* Csi SÜ	359*	700*	0*	3H9*	(	H69*	359*	0*	669*	(	0*	269*	0*	269*	(
cski -e(d ksUTruHL)	0	0	0	0	(	0	7	0	7	(	0	0	0	0	(
* cski -e(d ksUTruHL)	0*	0*	0*	0*	(	0*	79*	0*	79*	(	0*	0*	0*	0*	(
FrtsBü-aläy TruHL)	0	0	0	0	(	H	0	0	H	(	0	5	0	5	(
* FrtsBü-aläy TruHL)	0*	0*	0*	0*	(	h79*	0*	0*	g9*	(	0*	g79*	0*	g79*	(
o u)e)	0	0	0	0	(	0	7	0	7	(	0	0	0	0	(
* o u)e)	0*	0*	0*	0*	(	0*	79*	0*	79*	(	0*	0*	0*	0*	(
o sRBe) vk nway	7	0	0	7	(	0	7	0	7	(	0	0	0	0	(
* o sRBe) vk nway	49*	0*	0*	h9*	(	0*	79*	0*	79*	(	0*	0*	0*	0*	(
l eye)üsak)	(	(	(	(	7	(	(	(	(	2	(	(	(	(	0
* l eye)üsak)	(	(	(	(	700*	(	(	(	(	700*	(	(	(	(	(

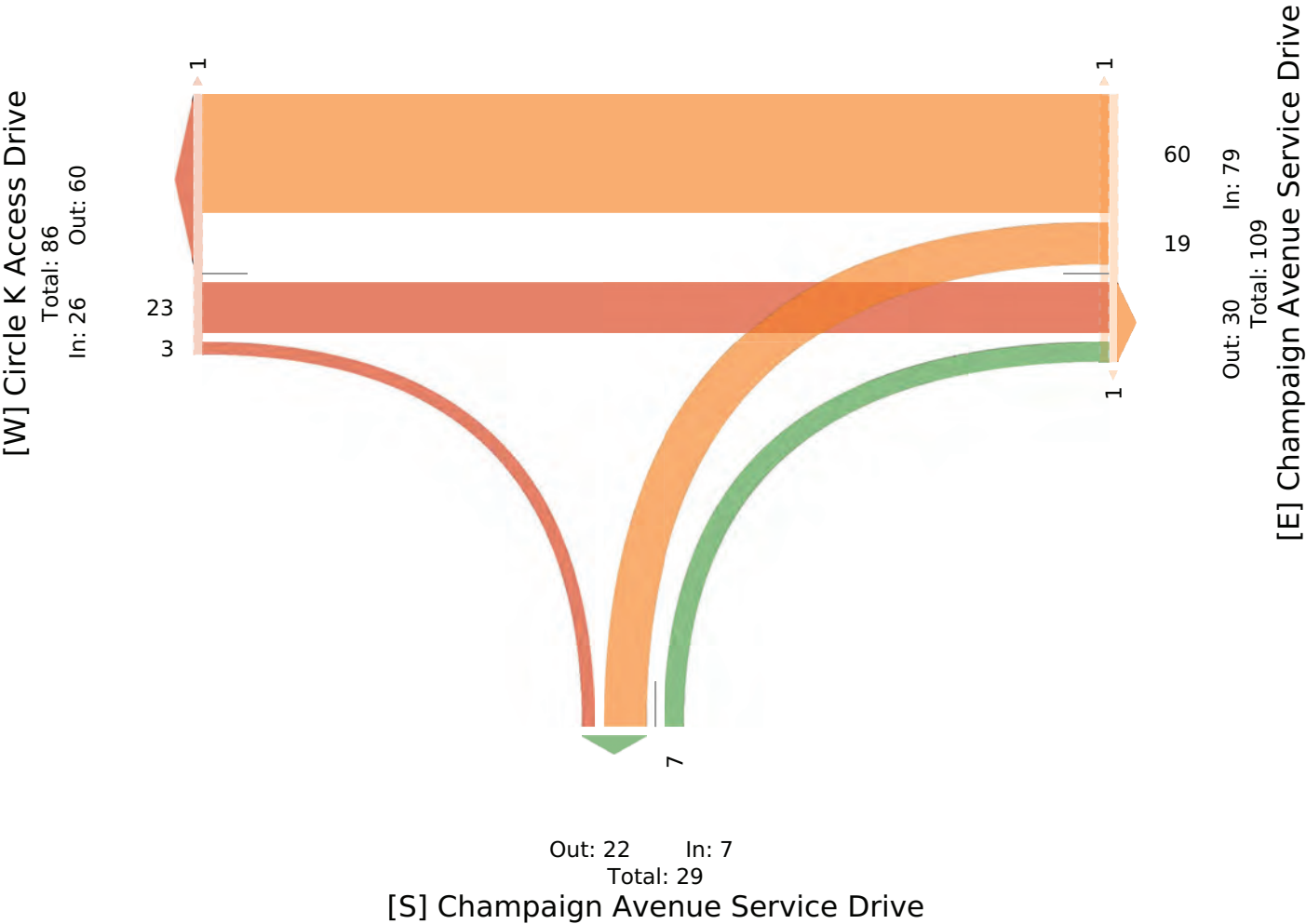
N eye)üsak) aky o sRBe) vk Prv))wa-L9Ct CefÜmt msi SÜTt TSru, d t d (Turk

Champaign Avenue Service Road with Circle K ... - TMC

Tue Mar 4, 2025
AM Peak (7:30 AM - 8:30 AM)
All Classes (Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road)
All Movements
ID: 1273593, Location: 40.308729, -88.175177



Provided by: Kenig Lindgren O'Hara Aboona, Inc.
9575 W. Higgins Rd., Suite 400,
Rosemont, IL, 60018, US



Champaign Avenue Service Road with Circle K ... - TMC

Tue Mar 4, 2025

MFLALneag th2 nM (h nM6

A- P-a))e) tCEi S, UEs-e(k cESTrude), ArSdu-aSel Trudg), Bu)e), nel e)Sfac),

BRLLd-e) yc oyal 6

A- MyRev ecS

nh Dh2: 1571, CydaSycD403109: 27, (993h: 5h: :



nryR el . LD8 ecE CEI s rec b IOara A. yyc, md3

75: 5 ' 30EsE) ol 3 UuE 400,
oy)ev ycS nE, HD0h9, k U

Ces I FredSyc	P fId-e 8 Adde)) I rRe pa)S yucl	Pi av WiEsc ARcue UerRde I rRe ' e)S yucl	Pi av WiEsc ARcue UerRde I rRe EyrS . yucl	
TRv e	T o k AWW nel N	C T k AWW nel N	C o k AWW nel N	mS
2025(01(04h2D0nM	h4 0 0 h4 0	1 h: 0 20 0	0 1 0 1 0	1:
h2Dh5nM	h4 0 0 h4 0	1 h2 0 h5 0	h 9 0 7 0	19
h2D0nM	H 0 0 H 0	4 h4 0 h9 0	0 2 0 2 0	2H
h2Dh5nM	h0 0 0 h0 0	1 h2 0 h5 0	h 1 0 4 0	27
TyS-	44 0 0 44 0	h1 55 0 H9 0	2 hH 0 h9 0	h10
* AWwyadi	h00* 0* 0* ((	h73* 903* 0* ((	hh3* 993* 0* ((	((
* TyS-	113* 0* 0* 113* (	h03* 423* 0* 523* (	h3* h23* 0* h13* (	((
nO%	03 9H ((03 9H (	h300 0307 (0319 (	0350 0300 (03: 2 (	0342
CEi S	42 0 0 42 (	h0 51 0 HL (	h h1 0 h4 (	hh7
* CEi S	753* 0* 0* 753* (	: H7* 7H1* 0* 723* (	503* 9h3* 0* : : 3* (	7h3*
UEs-e(k cESTrude)	2 0 0 2 (	0 h 0 h (	0 h 0 h (	4
* UEs-e(k cESTrude)	43* 0* 0* 43* (	0* h3* 0* h3* (	0* H1* 0* 53* (	13*
ArSdu-aSel Trudg)	0 0 0 0 (	2 h 0 1 (	0 2 0 2 (	5
* ArSdu-aSel Trudg)	0* 0* 0* 0* (	h53* h3* 0* 43* (	0* h23* 0* hh3* (	13*
Bu)e)	0 0 0 0 (	0 0 0 0 (	0 0 0 0 (	0
* Bu)e)	0* 0* 0* 0* (	0* 0* 0* 0* (	0* 0* 0* 0* (	0*
BRLLd-e) yc oyal	0 0 0 0 (	h 0 0 h (	h 0 0 h (	2
* BRLLd-e) yc oyal	0* 0* 0* 0* (	: 3 * 0* 0* h3* (	503* 0* 0* 53* (	h3*
nel e)Sfac)	((((0	((((0	((((0	(
* nel e)Sfac)	(((((	(((((	(((((	(

Nnel e)Sfac) acl BRLLd-e) yc Pry))wa-g3CDcefS o Do Bi S TDTi ru, k Dk (Turc

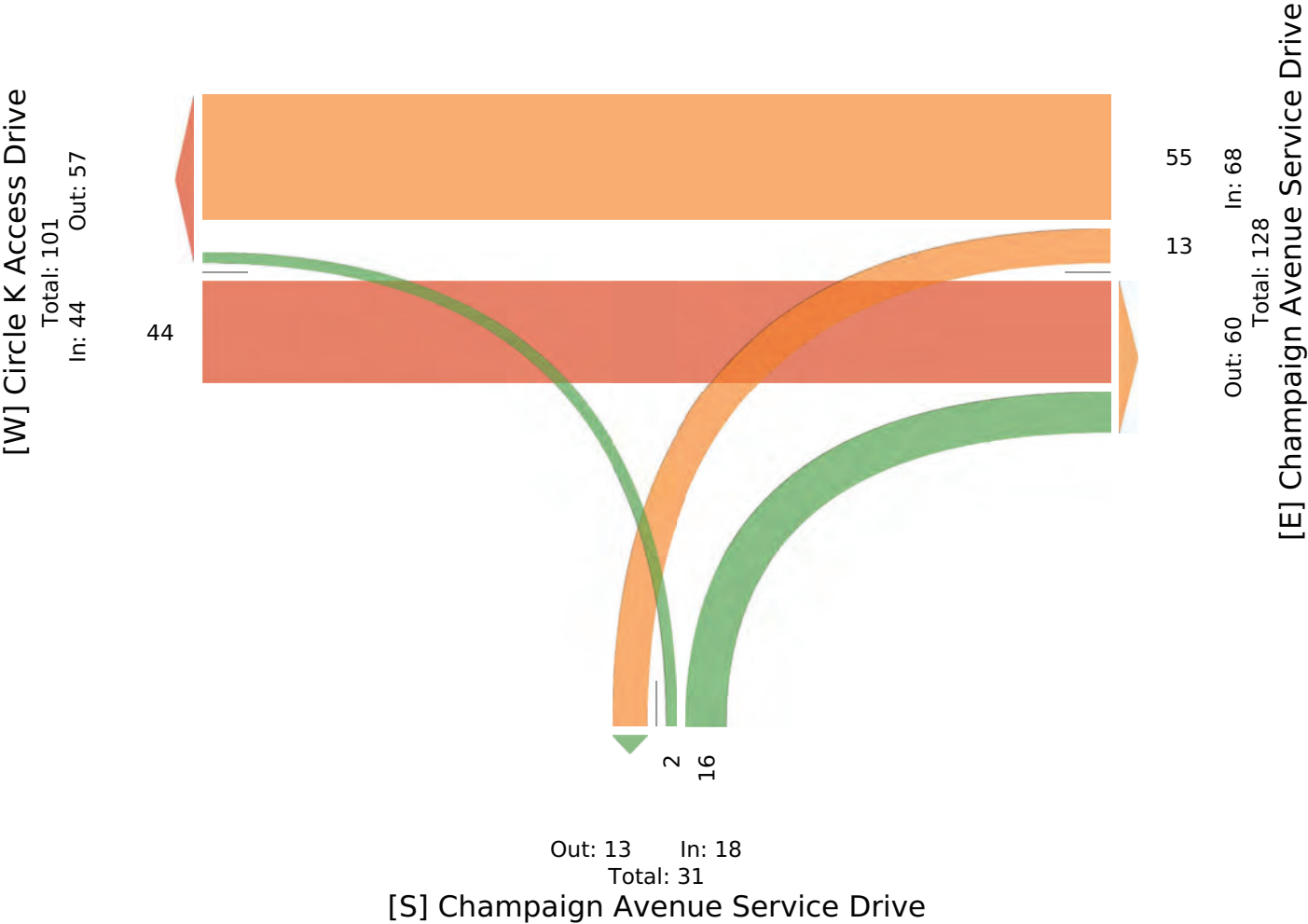
Champaign Avenue Service Road with Circle K ... - TMC

Tue Mar 4, 2025
MAPak (ea7 :32 (M - 3 (M8
) ll Classes :LAgh, t Si le-n SA TruU7s,) rhAulaleP TruU7s, c uses, (ePeshrASs,
c AkUes dS BdaP8
) ll Mdyeo eSl8
Rv m32I D51D, LdUahA Sm409D. I 21, -. . 9BI 53I I



Kenig, Lindgren, O'Hara, Aboona, Inc.

(rdyAeP bknKeSA LSPi reS O'Hara) bddSa,
ISU9
15I 5 W9HAi Ss BP9 t uAe 400,
Bdseo dSh FL, 6003. , n t



Champaign Avenue Service Road with Circle K ... - TMC

Tue Mar 4, 2025

FM Feal I2rg0 FM t grg0 FMht (6eraAFeal - Pur

) ACAsse i Sck, dSUAy BkTruol s,) rksouAleRTruol s, v uses, FeReskSABs, v SmaAs PBI PaRh

) AMP6eDeBls

:1 n723g59g, i PoakPBn40.g08329, t88.735733



FrP6SeRbmKeBSUi SRUreB(@ara) bPPBa, :Bo.

9535 ' . - SUSBs I R, duSe 400, I PseDPBk :i , HD078, y d

i eU 1 SeolPB	CSoA K) oess 1 rSe paslbPuBR				CcaDW(SLB) 6eBue der6Sae 1 rSe ' eslbPuBR				CcaDW(SLB) 6eBue der6Sae 1 rSe EPrkcbPuBR				
TSDe	T	I	y	) VW FeRN	i	T	y	) VW FeRN	i	I	y	) VW FeRN	Bk
2025t0gt04 2ng0FM	72	7	0	7g 0	2	2g	0	25 7	0	2	0	2 0	40
2n45FM	7g	7	0	74 0	7	7g	0	74 0	0	5	0	5 0	gg
gr00FM	5	0	0	5 0	7	22	0	2g 0	0	2	0	2 0	g0
gr75FM	72	2	0	74 0	7	74	0	75 0	0	g	0	g 0	g2
TPlaA	42	4	0	4H 0	5	32	0	33 7	0	72	0	72 0	7g5
*) VWPaoc	97.g*	8.3*	0*	t t	H5*	9g.5*	0*	t t	0*	700*	0*	t t	t
* TPlaA	g7.7*	g.0*	0*	g4.7* t	g.3*	5g.g*	0*	53.0* t	0*	8.9*	0*	8.9* t	t
F- %	0.808	0.500	t	0.827 t	0.H25	0.38g	t	0.330 t	t	0.HD0	t	0.HD0 t	0.844
i Sck	47	4	0	45 t	2	32	0	34 t	0	3	0	3 t	72H
* i Sck	93.H*	700*	0*	93.8* t	40.0*	700*	0*	9H7* t	0*	58.g*	0*	58.g* t	9g.g*
dSUAy BkTruol s	7	0	0	7 t	0	0	0	0 t	0	7	0	7 t	2
* dSUAy BkTruol s	2.4*	0*	0*	2.2* t	0*	0*	0*	0* t	0*	8.g*	0*	8.g* t	7.5*
) rksouAleRTruol s	0	0	0	0 t	g	0	0	g t	0	4	0	4 t	3
*) rksouAleRTruol s	0*	0*	0*	0* t	HD.0*	0*	0*	g.9* t	0*	gg.g*	0*	gg.g* t	5.2*
v uses	0	0	0	0 t	0	0	0	0 t	0	0	0	0 t	0
* v uses	0*	0*	0*	0* t	0*	0*	0*	0* t	0*	0*	0*	0* t	0*
v SmaAs PBI PaR	0	0	0	0 t	0	0	0	0 t	0	0	0	0 t	0
* v SmaAs PBI PaR	0*	0*	0*	0* t	0*	0*	0*	0* t	0*	0*	0*	0* t	0*
FeReskSABs	t	t	t	t 0	t	t	t	t 7	t	t	t	t 0	
* FeReskSABs	t	t	t	t t	t	t	t	t 700*	t	t	t	t t	t

FeReskSABs aBR v SmaAs PB CrPsswaA. i ni efk I ni Sck TnTcru, y ny tTurB

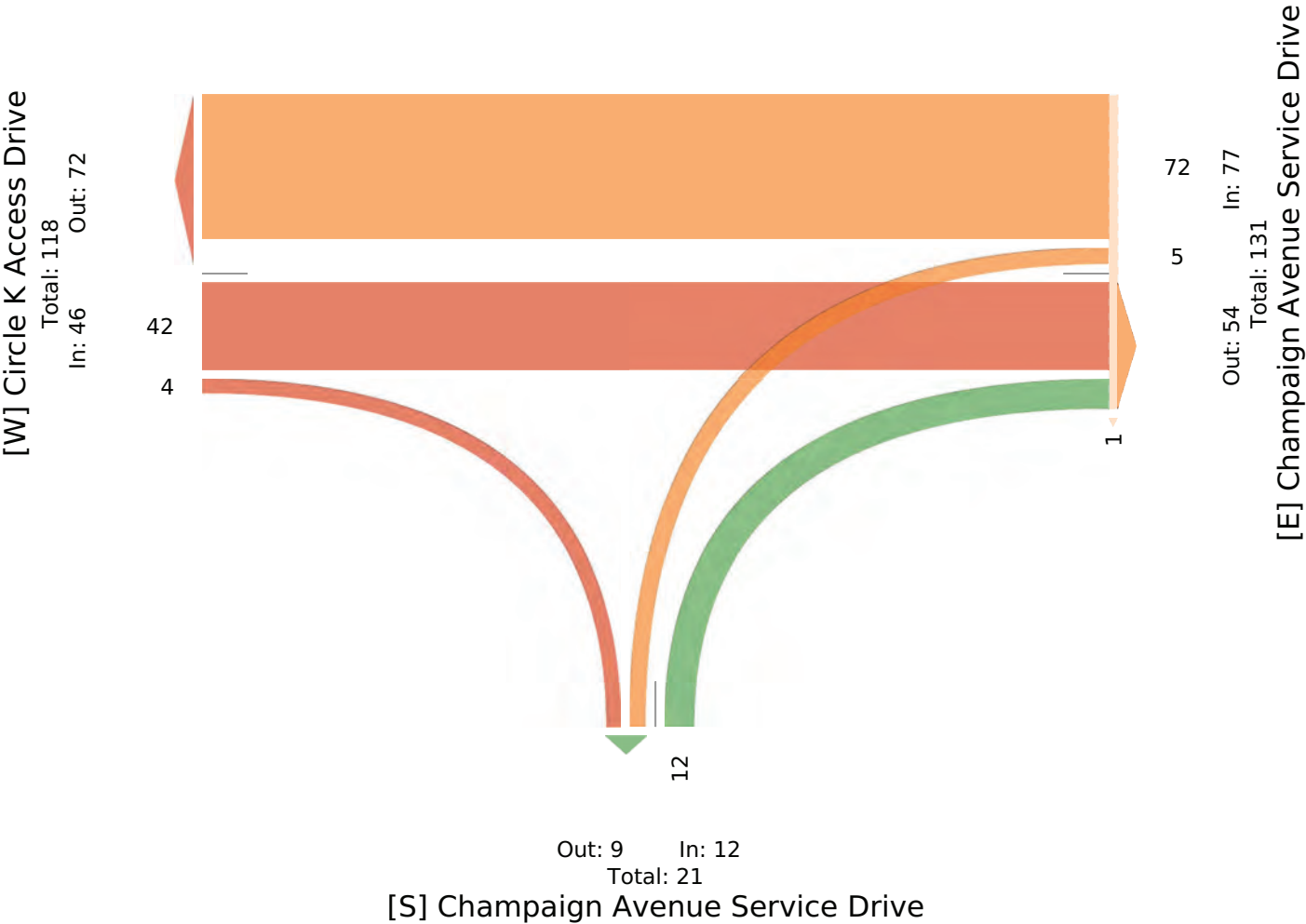
Champaign Avenue Service Road with Circle K ... - TMC

Tue Mar 4, 2025
AM AeaP k2(70 AM : 7(70 AM3: - 8era)) AeaP l Cur
s))L)aiiei lglt Sri, Urt)e:d chnTruEPi, s m(Bu)arey TruEPi, o uiei, Aeyei maci,
o HREi Cc v Cay3
s))MCBemecri
ID(12975. 7, g CBatCc(40b70K92. , :KK195199



Kenig, Lindgren, O'Hara, Aboona, Inc.

ArCBey CR' ech ghcyt rec - H ara s CCCa,
IcBb
. 595 Wbl It t lci v yb Uulre 400,
v GemCcn Ig, 6001K d U



Champaign Avenue with Murray Road TMC - TMC

Tue Mar 4, 2025

Full Length (6 AM-6 PM)

All Classes (Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,
Bicycles on Road)

All Movements

ID: 127359. , Location: 40809272, -99817474



Provided by: Kenig Lindgren O'Hara Aboona, Inc8
 . 575 W8Higgins Rd8 Suite 400,
 Rosemont, IL, 60019, US

Leg Direction	Champaign Avenue Eastbound							Champaign Avenue Westbound							Murray Road Northbound							Murray Road Southbound							
Time	L	T	R	U	App	Ped*		L	T	R	U	App	Ped*		L	T	R	U	App	Ped*		L	T	R	U	App	Ped*		Int
2025-03-04 6:00AM	3	1.	9	0	30	0		7	71	3	0	91	0		13	6	7	0	26	0		4	3	5	0	12	0		14.
6:15AM	1	26	11	0	39	0		14	101	6	0	121	0		14	4	.	0	27	0		1	3	3	0	7	0		1.3
6:30AM	4	53	11	0	69	0		7	101	4	0	112	0		.	7	13	0	2.	0		2	1	.	0	12	0		221
6:45AM	6	62	19	0	96	0		19	97	3	0	109	0		11	0	12	0	23	0		4	2	14	0	20	0		237
Hourly Total	14	160	49	0	222	0		46	360	16	0	422	0		47	17	41	0	105	0		11	.	31	0	51	0		900
7:00AM	6	71	16	0	.3	0		22	104	5	0	131	0		19	4	29	0	50	0		4	2	6	0	12	0		296
7:15AM	5	95	34	0	124	0		25	.2	10	0	127	0		13	4	23	0	40	0		12	3	13	0	29	0		31.
7:30AM	14	73	22	0	10.	0		33	.4	9	0	135	0		16	3	29	0	47	0		6	3	.	0	19	0		30.
7:45AM	9	62	22	0	.2	1		26	52	14	0	.2	0		16	3	23	0	42	0		4	7	14	0	25	0		251
Hourly Total	33	2.1	.4	0	419	1		106	342	37	0	495	0		63	14	102	0	17.	0		26	15	42	0	93	0		1165
9:00AM	.	53	16	0	79	0		40	66	10	0	116	0		20	9	13	0	41	0		1	3	10	0	14	0		24.
9:15AM	10	42	27	0	7.	0		35	57	7	0	..	0		11	4	24	0	3.	0		7	4	15	0	26	0		243
9:30AM	7	41	17	0	65	0		24	5.	6	0	9.	0		16	3	25	0	44	0		4	6	7	0	17	0		215
9:45AM	6	40	17	0	63	0		2.	54	6	0	9.	0		13	.	33	0	55	0		5	2	5	0	12	0		21.
Hourly Total	32	176	77	0	295	0		129	236	2.	0	3.3	0		60	24	.5	0	17.	0		17	15	37	0	6.	0		.26
.:00AM	4	31	14	0	4.	0		40	43	11	0	.4	0		13	4	40	0	57	0		.	9	7	0	24	0		224
.:15AM	9	39	15	0	61	0		35	42	.	0	96	0		20	9	1.	0	47	0		9	9	.	0	25	0		21.
.:30AM	6	4.	13	0	69	0		30	57	4	0	.1	0		11	5	25	0	41	0		5	6	6	0	17	0		217
.:45AM	3	4.	20	0	72	0		32	46	.	0	97	0		16	4	29	0	49	0		5	4	9	0	17	0		224
Hourly Total	21	167	62	0	250	0		137	199	33	0	359	0		60	21	112	0	1.3	0		27	26	30	0	93	0		994
10:00AM	.	37	21	0	67	0		41	33	.	0	93	0		16	7	30	0	53	0		6	3	14	0	23	0		226
10:15AM	4	34	14	0	52	0		29	59	6	0	.2	0		13	6	23	0	42	0		5	5	12	0	22	0		209
10:30AM	11	46	24	0	91	0		40	3.	4	0	93	0		17	4	24	0	45	0		5	5	.	0	1.	0		229
10:45AM	10	47	14	0	71	0		29	46	13	0	97	0		10	4	45	0	5.	0		9	.	13	0	30	0		247
Hourly Total	34	164	73	0	271	0		137	176	32	0	345	0		56	21	122	0	1..	0		24	22	49	0	.4	0		.0.
11:00AM	13	53	21	0	97	0		3.	4.	11	0	..	0		16	9	43	0	67	0		10	7	13	0	30	0		293
11:15AM	6	50	24	0	90	0		37	40	5	0	92	0		19	4	43	0	65	0		3	.	16	0	29	0		255
11:30AM	9	66	22	0	.6	0		31	57	5	0	.3	0		16	7	41	0	64	0		14	4	14	0	32	0		295
11:45AM	11	45	23	0	7.	0		31	56	9	0	.5	0		1.	11	42	0	72	0		.	.	15	0	33	0		27.
Hourly Total	39	214	.0	0	342	0		139	202	2.	0	36.	0		6.	30	16.	0	269	0		36	2.	59	0	123	0		1102
12:00PM	14	61	16	0	.1	1		43	61	7	0	111	0		14	7	4.	0	70	0		27	4	16	0	47	0		31.
12:15PM	7	43	24	2	76	0		32	62	7	1	102	0		21	4	40	0	65	0		11	9	21	0	40	0		293
12:30PM	11	53	19	0	92	0		46	55	9	0	10.	0		15	4	3.	0	59	0		.	5	14	0	29	0		277
12:45PM	6	4.	30	0	95	0		3.	4.	12	0	100	0		16	5	3.	0	60	0		9	6	17	0	31	0		276
Hourly Total	39	206	99	2	334	1		160	227	34	1	422	0		66	20	167	0	253	0		55	23	69	0	146	0		1155
1:00PM	15	54	19	0	97	0		34	39	12	1	95	0		10	3	33	0	46	0		10	7	13	0	30	0		249
1:15PM	11	57	23	0	.1	0		44	5.	10	0	113	0		22	6	43	0	71	0		10	11	13	0	34	0		30.
1:30PM	9	67	20	0	.5	0		47	65	4	0	116	0		1.	.	49	0	76	0		10	3	10	0	23	0		310
1:45PM	17	111	31	0	15.	0		33	56	6	0	.5	0		21	6	47	0	74	0		15	5	5	0	25	0		353
Hourly Total	51	29.	.2	0	432	0		159	219	32	1	40.	0		72	24	171	0	267	0		45	26	41	0	112	0		1220
2:00PM	14	.2	26	0	132	0		4.	69	6	0	123	1		10	14	49	0	72	0		11	5	12	0	29	0		355
2:15PM	9	62	2.	0	..	0		41	91	4	0	126	1		1.	4	47	0	70	0		10	3	15	0	29	0		323
2:30PM	13	112	26	0	151	0		36	69	12	0	116	0		23	16	47	0	96	0		10	12	11	0	33	0		396
2:45PM	13	.1	34	0	139	0		47	79	11	0	136	0		23	3	57	0	93	0		10	7	14	0	31	0		399
Hourly Total	49	357	115	0	520	0		173	2.5	33	0	501	2		75	37	1..	0	311	0		41	27	52	0	120	0		1452
3:00PM	15	103	35	0	153	0		5.	63	.	1	132	0		29	13	44	0	95	0		10	9	10	0	29	0		3.9
3:15PM	13	55	.	0	77	0		39	97	6	0	131	0		1.	13	65	0	.7	0		.	10	19	0	37	0		342
3:30PM	10	90	23	0	113	0		47	.1	.	0	147	0		26	10	47	0	93	0		12	2	24	0	39	0		391
3:45PM	11	76	25	0	112	0		55	60	9	0	123	0		21	5	60	0	96	0		4	6	10	0	20	0		341
Hourly Total	4.	314	.2	0	455	0		1..	301	32	1	533	0		.4	41	216	0	351	0		35	26	62	0	123	0		1462
4:00PM	11	126	42	0	17.	0		50	62	5	0	117	0		33	9	53	0	.4	0		13	.	10	0	32	0		422
4:15PM	19	109	26	0	152	0		47	62	9	0	117	0		24	9	59	0	.0	0		7	5	7	0	1.	0		379
4:30PM	10	123	42	0	175	0		52	95	10	0	147	0		21	12	51	0	94	0		16	6	17	0	3.	0		445
4:45PM	10	.2	20	0	122	0		45	61	5	0	111	0		37	11	53	0	101	0		14	4	16	0	34	0		369

Leg Direction	Champaign Avenue Eastbound							Champaign Avenue Westbound							Murray Road Northbound							Murray Road Southbound							
Time	L	T	R	U	App	Ped*		L	T	R	U	App	Ped*		L	T	R	U	App	Ped*		L	T	R	U	App	Ped*		Int
Hourly Total	4.	44.	130	0	629	0		1.4	270	29	0	4.2	0		115	3.	215	0	36.	0		50	24	50	0	124	0		1613
5:00PM	13	109	24	0	145	0		36	66	6	0	109	0		24	17	73	0	114	0		16	7	10	0	33	0		400
5:15PM	9	.4	17	0	11.	0		42	61	9	0	111	0		31	12	60	0	103	0		14	6	10	0	30	0		363
5:30PM	5	103	20	0	129	0		40	63	5	0	109	0		19	7	43	0	69	0		.	3	9	0	20	0		324
5:45PM	7	7.	15	0	101	0		42	46	7	0	.5	0		22	6	44	0	72	0		.	5	3	0	17	0		295
Hourly Total	33	394	76	0	4.3	0		160	236	26	0	422	0		.5	42	220	0	357	0		49	21	31	0	100	0		1372
Total	440	3171	1037	2	4650	2		1736	3051	361	3	5151	2		972	330	192.	0	3031	0		415	263	550	0	1229	0		14060
% Approach	.8%	69%	22%	0%	-	-		33%	5.8%	7%	0%	8%	-		29%	10%	60%	0%	-	-		33%	21%	44%	0%	-	-		-
% Total	3%	22%	7%	0%	33%	-		12%	21%	2%	0%	36%	-		6%	2%	13%	0%	21%	-		3%	18%	3%	0%	9%	-		-
Lights	392	2.	.5	.90	2	435.	-	171.	2976	340	3	4.39	-		916	321	1912	0	2.4.	-		3.	252	4.0	0	1141	-		13397
% Lights	96%	.4%	.4%	100%	.3%	-		.8%	.4%	.4%	100%	.5%	-		.3%	.7%	.8%	0%	.7%	-		.6%	.5%	9.8%	0%	.2%	-		.5%
Single-Unit Trucks	16	63	17	0	.6	-		5	63	13	0	91	-		14	7	11	0	32	-		6	.	1.	0	34	-		243
% Single-Unit Trucks	3%	2%	1%	0%	2%	-		0%	2%	3%	0%	1%	-		1%	2%	0%	0%	1%	-		1%	3%	3%	0%	2%	-		1%
Articulated Trucks	42	.9	33	0	173	-		4	103	9	0	115	-		32	1	5	0	39	-		.	2	41	0	52	-		379
% Articulated Trucks	.8%	3%	3%	0%	3%	-		0%	3%	2%	0%	2%	-		3%	0%	0%	0%	1%	-		2%	0%	7%	0%	4%	-		2%
Buses	0	11	7	0	19	-		9	.	0	0	17	-		10	1	1	0	12	-		1	0	0	0	1	-		49
% Buses	0%	0%	0%	0%	0%	-		0%	0%	0%	0%	0%	-		1%	0%	0%	0%	0%	-		0%	0%	0%	0%	0%	-		0%
Bicycles on Road	0	4	0	0	4	-		0	0	0	0	0	-		0	0	0	0	0	-		0	0	0	0	0	-		4
% Bicycles on Road	0%	0%	0%	0%	0%	-		0%	0%	0%	0%	0%	-		0%	0%	0%	0%	0%	-		0%	0%	0%	0%	0%	-		0%
Pedestrians	-	-	-	-	-	2		-	-	-	-	-	2		-	-	-	-	-	0		-	-	-	-	-	0		
% Pedestrians	-	-	-	-	-	100%		-	-	-	-	-	100%		-	-	-	-	-	-		-	-	-	-	-	-		-

*Pedestrians and Bicycles on Crosswalk8L: Left, R: Right, T: Thru, U: U-Turn

Champaign Avenue with Murray Road TMC - TMC

Tue Mar 4, 2025

Full Length (6 AM-6 PM)

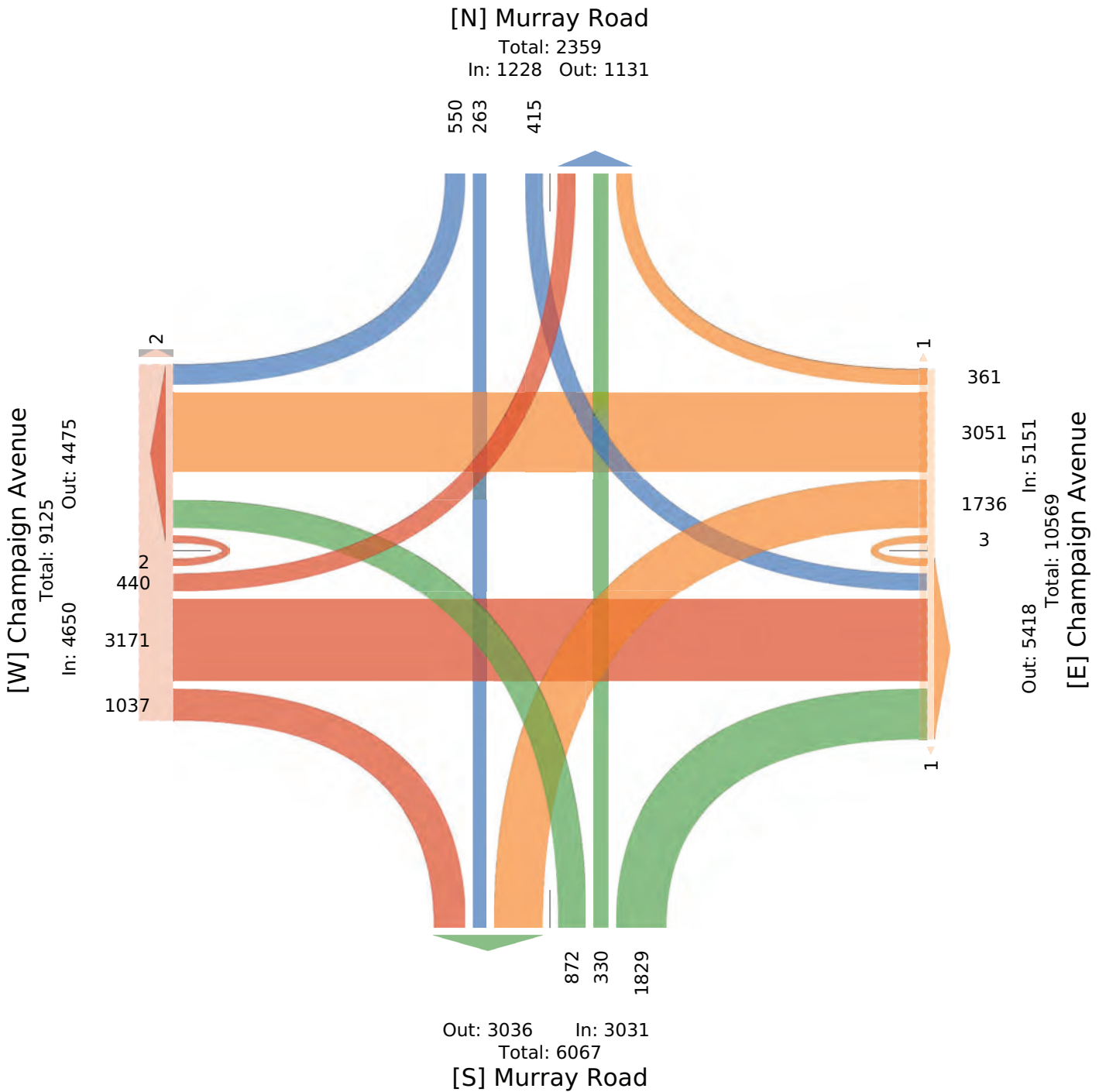
All Classes (Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road)

All Movements

ID: 127359. , Location: 40809272, -9987474



Provided by: Kenig Lindgren O'Hara Aboona, Inc.
. 575 W Higgins Rd Suite 400,
Rosemont, IL, 60019, US



Champaign Avenue with Murray Road TMC - TMC

Tue Mar 4, 2025

FM l eaL ng FM t h FM(

F 6A6--e- nP)Cs i-, S)Ufetc Uj TrukL-, F ri)kuGaied TrukL-, Bu-e-, l ede-ir)aU-,

B)kyk6- oURoad(

F 6MovemeU-

ID: 12g75h3, Pokai)oU 40970h2g2, thh9lg4g4



l rov)ded . y: 8 eU)CP)UdGreUb Kora F . ooLä, IUK9

35g5 ' 9O)CCU- Rd9 Su)ie 400,
Ro-emoU, IP, HD01h, c S

PeC D)reki)oU	AsamW)CUF veUe pa-i. ouUd	AsamW)CUF veUe ' e-i. ouUd	Murray Road Eoris. ouUd	Murray Road Souis. ouUd	
T)me	P T R c FWW l edN	P T R c FWW l edN	P T R c FWW l edN	P T R c FWW l edN	IU
2025t07t04 g:00FM	H g1 1H 0 37 0	22 104 5 0 171 0	1h 4 2h 0 50 0	4 2 H 0 12 0	2hH
g:15FM	5 h5 74 0 124 0	25 32 10 0 12g 0	17 4 27 0 40 0	12 7 17 0 2h 0	713
g:70FM	14 g7 22 0 103 0	77 34 h 0 175 0	1H 7 2h 0 4g 0	H 7 3 0 1h 0	703
g:45FM	h H2 22 0 32 1	2H 52 14 0 32 0	1H 7 27 0 42 0	4 g 14 0 25 0	251
Toia6	77 231 34 0 41h 1	10H 742 7g 0 4h5 0	H7 14 102 0 1g3 0	2H 15 42 0 h7 0	11H5
* F Wwoaks	g9* H89* 225* 0* t t	219* g05* g9* 0* t t	759* g9* 5g9* 0* t t	719* 1h9* 509* 0* t t	t t
* Toia6	29* 259* h9* 0* 759* t	39* 239* 79* 0* 419* t	59* 19* h9* 0* 159* t	29* 19* 79* 0* g9* t	t t
l O%	09h3 09h57 09B1 t 09h41 t	09h07 09h22 09H1 t 09h3h t	09hg5 09hg5 09B11 t 09h35 t	09542 0957H 09g50 t 09g41 t	09B12
P)Cs i-	70 2gH 30 0 73H t	105 772 7H 0 4g7 t	H0 14 100 0 1g4 t	25 15 7g 0 gg t	1120
* P)Cs i-	309* 349* 359* 0* 349* t	339* 3g9* 3g9* 0* 3g5* t	359* 100* 3h9* 0* 3g9* t	3H9* 100* hh9* 0* 32h* t	3H1*
S)Ufetc Uj TrukL-	0 4 2 0 H t	1 4 1 0 H t	1 0 1 0 2 t	1 0 1 0 2 t	1H
* S)Ufetc Uj TrukL-	0* 19* 29* 0* 19* t	09* 19* 29* 0* 19* t	19* 0* 19* 0* 19* t	79* 0* 29* 0* 29* t	19*
F ri)kuGaied TrukL-	7 h 1 0 12 t	0 H 0 0 H t	0 0 1 0 1 t	0 0 4 0 4 t	27
* F ri)kuGaied TrukL-	39* 29* 19* 0* 29* t	0* 19* 0* 0* 19* t	0* 0* 19* 0* 09* t	0* 0* 39* 0* 49* t	29*
Bu-e-	0 2 1 0 7 t	0 0 0 0 0 t	2 0 0 0 2 t	0 0 0 0 0 t	5
* Bu-e-	0* 09* 19* 0* 09* t	0* 0* 0* 0* 0* t	79* 0* 0* 0* 19* t	0* 0* 0* 0* 0* t	09*
B)kyk6- oU Road	0 1 0 0 1 t	0 0 0 0 0 t	0 0 0 0 0 t	0 0 0 0 0 t	1
* B)kyk6- oU Road	0* 09* 0* 0* 09* t	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	09*
l ede-ir)aU-	t t t t t 1	t t t t t 0	t t t t t 0	t t t t t 0	
* l ede-ir)aU-	t t t t t 100*	t t t t t t	t t t t t t	t t t t t t	t

N ede-ir)aU- aUd B)kyk6- oUAro--wafl9P: Pefi, R: R)Cs i, T: Tsru, c : c tTurU

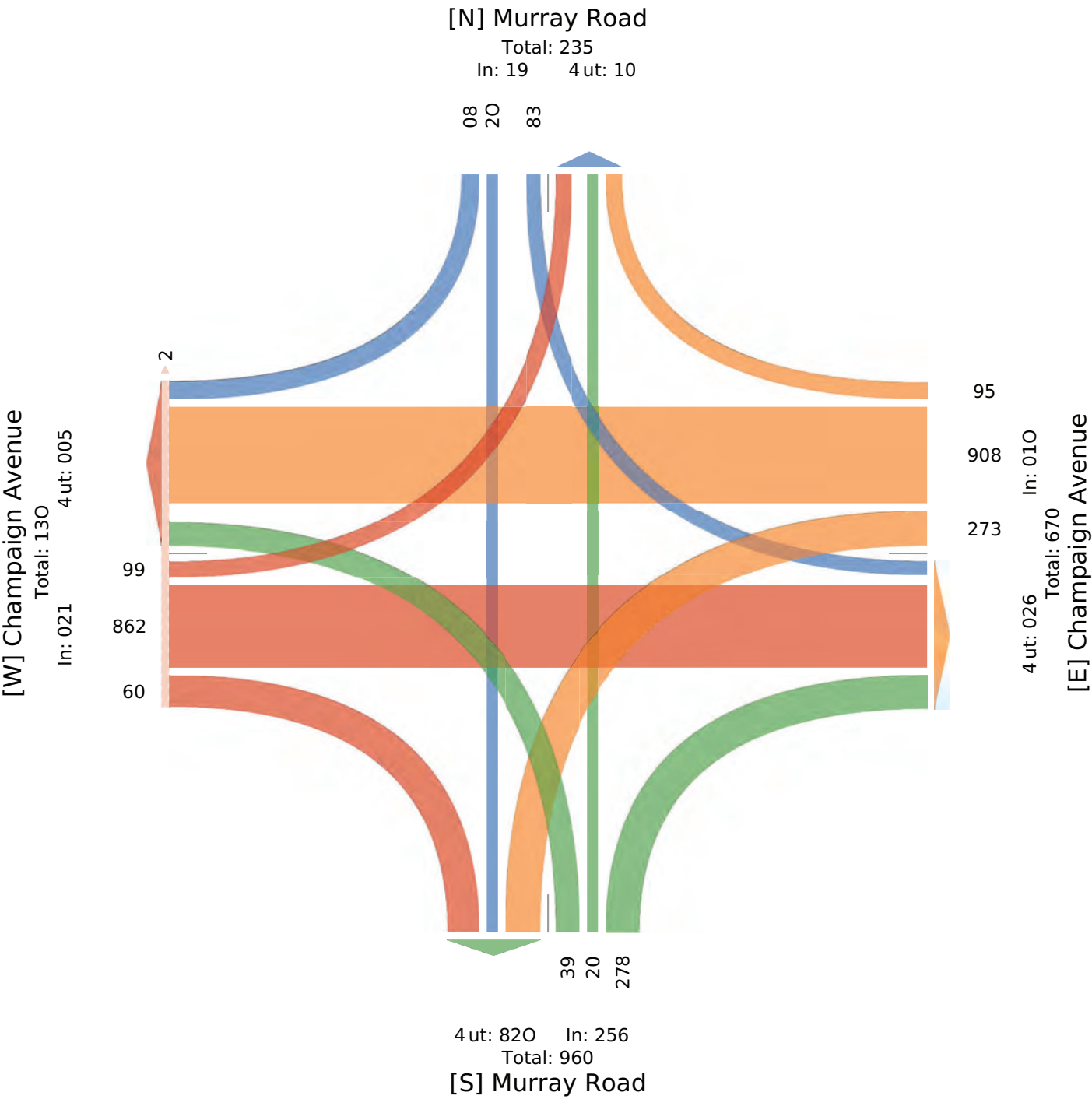
Champaign Avenue with Murray Road TMC - TMC

Tue Mar 4, 2025
AM Peak (7 AM : 3 AM-
A8) 8alle (CsLi g, hst L&:S t sgTrunkl, Argnu&gUTrunkl, c ul el, PeUel gsat l,
c sdn&el B t y BaU-
A8MBoeRet g
vml D271539, CBnagB I 40.103272, :33.D7474



Kenig, Lindgren, O'Hara, Aboona, Inc.

PrBosL&UbdI Ket sL Cst ULret O'Hara AbBB a,
v n.
9575 W. HsLLst l y U, husge 400,
y Bl eR B t g vC, 600DB, S h



Champaign Avenue with Murray Road TMC - TMC

Tue Mar 4, 2025

MFL al neag th nM (2 nM6

A-- P-a))e tC&S i S, U&S-e(k c iS Trudg), Ar&du-a&el Trudg), Bu)e), nel e)S&ac),

Br&ld-e) yc oyal 6

A-- MyRev ecS

nh Dh2: 1573, CydaSycD4091072: 2, (779h: 4: 4



nryR& el . LD& ec&S C&el srec b K&ara A. yyc&a, md9

35: 5 ' 90&S&e) o l 9 U&is& 400,

o y)ev yc&S n&C, H00h7, k U

Ces I fredSyc	Pi av Wi&sc A&Recue (pa)S yucl	Pi av Wi&sc A&Recue ' e)S yucl	MurraL oyal Eyr&S . yucl	MurraL oyal Uyu&S . yucl	
TFv e	C T o k A&W&hel N	C T o k A&W&hel N	C T o k A&W&hel N	C T o k A&W&hel N	m&S
2025(01(04 hD0nM	h5 54 h7 0 7: 0	14 17 h2 h 75 0	h0 1 11 0 4H 0	h0 : h1 0 10 0	247
hD5nM	hh 5: 21 0 3h 0	44 53 h0 0 hh1 0	22 H 41 0 :h 0	h0 hh h1 0 14 0	103
hD0nM	7 H 20 0 35 0	4: H& 4 0 hhH 0	h3 3 47 0 :H 0	h0 1 h0 0 21 0	1h0
hD5nM	h: hhh 1h 0 h53 0	11 5H H 0 35 0	2h H 4: 0 :4 0	h5 5 5 0 25 0	151
Ty&S-	5h 273 32 0 412 0	h57 2h7 12 h 403 0	:2 24 h: h 0 2H 0	45 2H 4h 0 hh2 0	h220
* A&W&yadi	hh9* H&B* 2h9* 0* (	179* 519* :9* 09* (	2: 9* 39* H49* 0* (	409* 219* 1H&* 0* (	(
* Ty&S-	49* 219* :5* 0* 159* (	h19* h: 9* 29* 09* 115* (	59* 29* h49* 0* 2h9* (	19* 29* 19* 0* 39* (	(
nO%	09 50 09&h 09 42 (09H 3 (	09&0 0917 09H 0920 097h (	09h7 09H 093h (09: 7 (	09 50 093h 09 77 (09&24 (	09H4
C&S i S	41 2: : 73 0 403 (	h5: 204 27 h 130 (	H7 21 h: 0 0 2Hh (	42 25 1H 0 h01 (	hhHl
* C&S i S	749* 359* 3H& * 0* 349 * (	339* 319* 7: 9* h00* 359* (	349* 359* 339* 0* 3: 9* (	319* 3H& * 7: 9* 0* 329* (	359* (
U&S-e(k c i&S Trudg)	5 5 h 0 hh (	0 h 1 0 4 (	2 h h 0 4 (	h h 2 0 4 (	21
* U&S-e(k c i&S Trudg)	39* h9 * h9* 0* 29* (	0* 09* 39* 0* h9* (	29* 49* 09* 0* h9* (	29* 19* 49* 0* 19* (	h9*
Ar&du-a&el Trudg)	1 : h 0 hh (	h hh h 0 h1 (	2 0 0 0 2 (	2 0 1 0 5 (	1h
* Ar&du-a&el Trudg)	59* 29* h9* 0* 29* (	09* 59* 19* 0* 19* (	29* 0* 0* 0* 09 * (	49* 0* : 9* 0* 49* (	29*
Bu)e)	0 0 h 0 h (	0 2 0 0 2 (	0 0 0 0 0 (	0 0 0 0 0 (	1
* Bu)e)	0* 0* h9* 0* 09* (	0* 09* 0* 0* 09* (	0* 0* 0* 0* 0* (	0* 0* 0* 0* 0* (	09*
Br&ld-e) yc oyal	0 0 0 0 0 (	0 0 0 0 0 (	0 0 0 0 0 (	0 0 0 0 0 (	0
* Br&ld-e) yc oyal	0* 0* 0* 0* 0* (	0* 0* 0* 0* 0* (	0* 0* 0* 0* 0* (	0* 0* 0* 0* 0* (	0*
nel e)S&ac)	(((((0	(((((0	(((((0	(((((0	(
* nel e)S&ac)	((((((	((((((	((((((	((((((	(

Nel e)S&ac) ac l Br&ld-e) yc Pry))wa-g9CD&e&S o D&o &S i S TDi ru, k Dk (Turc

Champaign Avenue with Murray Road TMC - TMC

Tue Mar 4, 2025

MAPak (ea7 :3 (M - 2 (M8

) ll Classes :LAgh, t Si le-n SA TruU's,) rhAulaleP TruU's, c uses, (ePeshrA'ss, c AkUes dS BdaP8

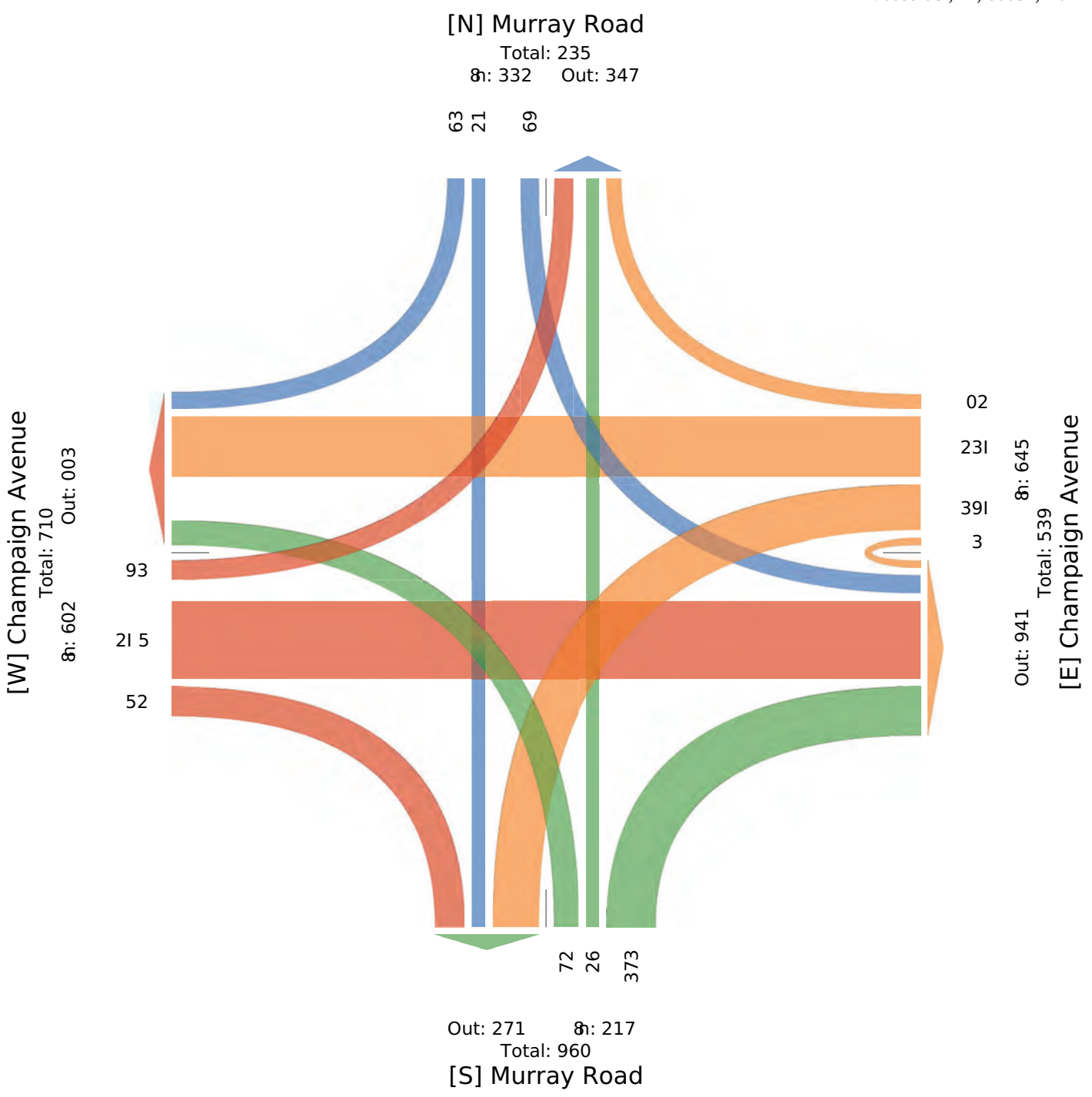
) ll Mdyeo eSl's

R m32I D519, LdUahSm40.D012I 2, -11.3I 4I 4



(rdyAeP bknKeSA LSPi reS O'Hara) bddSa, ISU

95I 5 W. HAi Ss BP., t uAe 400, Bdseo dSh FL, 60031, n t



Champaign Avenue with Murray Road TMC - TMC

Tue Mar 4, 2025

FM Feal I4 FM n5 FMgnt hera((Feal 6 Aur

- ((P(a))e) ICsi SU, cski (erd ksUTruB), - rUBu(alay TruB), ou)e, Feye)usak),

o sBB(e) Ak v Aay

- ((MAhemekU

ID: 127359. , CABuAk: 40809272, r09817474



FrAhsyey bR Keksi Cskyi rek t 0 ara - bAAka,
IkBB
. 575 ' 86 si i sk) v y8 cust0 400,
v A)emAkUIC, HD019, d c

Cei DsreBisAk	P SamVisi k - hekue pa)U Auky	P SamVisi k - hekue ' e)U Auky	MurraRv Aay E ArUSbAuky	MurraRv Aay c AuUSbAuky	
Tsme	C T v d - WWFeyN	C T v d - WWFeyN	C T v d - WWFeyN	C T v d - WWFeyN	IkU
2025r03r04 4:00FM	11 12H 42 0 17. 0	50 H2 5 0 117 0	33 9 53 0 .4 0	13 . 10 0 32 0	422
4:15FM	19 109 2H 0 152 0	47 H2 9 0 117 0	24 9 59 0 .0 0	7 5 7 0 1. 0	379
4:30FM	10 123 42 0 175 0	52 95 10 0 147 0	21 12 51 0 94 0	1H H 17 0 3. 0	445
4:45FM	10 .2 20 0 122 0	45 H1 5 0 111 0	37 11 53 0 101 0	14 4 1H 0 34 0	3H0
TALa(	4. 44. 130 0 H29 0	1.4 270 29 0 4.2 0	115 3. 215 0 3H 0	50 24 50 0 124 0	1H13
* - WWAaBS	70* 718* 208* 0* n	3.84* 548* 58* 0* n	318* 108* 598* 0* n	408* 1.84* 408* 0* n	n
* TALa(	380* 278* 98* 0* 398 *	1280* 1H7* 18* 0* 3085 *	781* 281* 138* 0* 228 *	381* 185* 381* 0* 787 *	n
F6 %	0801 08.1 0874 n 0877 n	0833 08.4 08700 n 08937 n	0877 0813 0827 n 0813 n	08791 0817 08735 n 087.5 n	080H
Csi SU	45 427 123 0 5.5 n	1.3 25. 27 0 47. n	104 3. 214 0 357 n	4. 23 47 0 11. n	1550
* Csi SU	.18* .581* .481* 0* .487 *	.85* .58* .H4* 0* .781 *	.081* 100* .85* 0* .H7* n	.980* .580* .480* 0* .H80 *	n. H1 *
cski (erd ksU TruB)	1 H 0 0 7 n	0 H 1 0 7 n	2 0 1 0 3 n	1 1 1 0 3 n	20
* cski (erd ksU TruB)	280* 183* 0* 0* 181 *	0* 282* 381* 0* 181 *	187* 0* 085* 0* 080 *	280* 482* 280* 0* 281 *	n 182 *
- rUBu(alay TruB)	3 14 H 0 23 n	0 5 0 0 5 n	H 0 0 0 H n	0 0 2 0 2 n	3H
* - rUBu(alay TruB)	H1* 381* 481* 0* 387 *	0* 18 * 0* 0* 180 *	582* 0* 0* 0* 181 *	0* 0* 480* 0* 181 *	n 282 *
ou)e)	0 2 1 0 3 n	1 0 0 0 1 n	3 0 0 0 3 n	0 0 0 0 0 n	7
* ou)e)	0* 081* 08* 0* 085 *	085* 0* 0* 0* 082 *	281* 0* 0* 0* 080 *	0* 0* 0* 0* 0* n	081 *
o sBB(e) Ak v Aay	0 0 0 0 0 n	0 0 0 0 0 n	0 0 0 0 0 n	0 0 0 0 0 n	0
* o sBB(e) Ak v Aay	0* 0* 0* 0* 0* n	0* 0* 0* 0* 0* n	0* 0* 0* 0* 0* n	0* 0* 0* 0* 0* n	0*
Feye)usak)	n n n n n 0	n n n n n 0	n n n n n 0	n n n n n 0	0
* Feye)usak)	n n n n n n	n n n n n n	n n n n n n	n n n n n n	n

N Feye)usak) aky o sBB(e) Ak PrA))wa(l 8C: CefUv : v si SUT: TSru, d : d nTurk

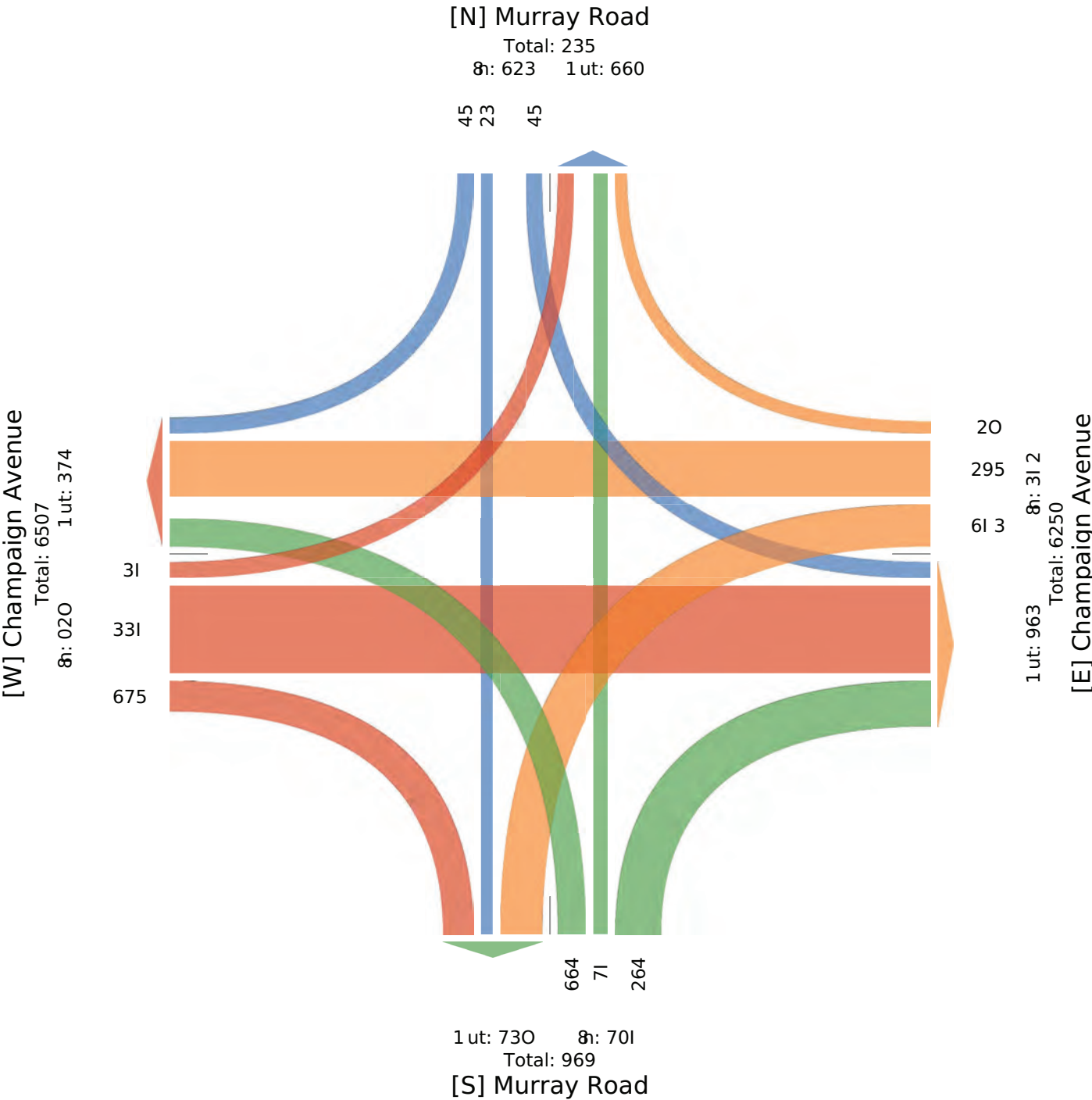
Champaign Avenue with Murray Road TMC - TMC

Tue Mar 4, 2025
AM AeaP k4 AM (: 3era- AeaP 8) ur
l - C-asses kLights, Sing-e(Unit TrucPs, l rticu-ated TrucPs, Buses, Aedestrians,
Bicyc-es) n o) ad7
l - M) 3eRents
vml D2195. b, L) cati) nI 40100. 212, (. 101414



Kenig, Lindgren, O'Hara, Aboona, Inc.

Ar) 3ided QyI' enig Lindgren : H ara l O)) na,
vncK
b515 WK8 iggins o dK Suite 400,
o) seR) nt, vL, 600D , US



hotel access and murray rd - TMC

Tue Mar 4, 2025

Full Length (6 AM-6 PM)

All Classes (Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road)

All Movements

ID: 1273714, Location: 4090. 36. , -88917472.



Provided by: Kenig Lindgren O'Hara Aboona, Inc9
 . 575 W9Higgins Rd9 Suite 400,
 Rosemont, IL, 60018, US

Leg Direction	access rd pastbound						access rd Westbound						murray rd Eorthbound						murray rd Southbound						
Time	L	T	R	U	ANN	Ped*	L	T	R	U	ANN	Ped*	L	T	R	U	ANN	Ped*	L	T	R	U	ANN	Ped*	Int
2025-03-04																									
6:00AM	1	0	5	0	6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	2	0	.
6:15AM	0	0	2	0	2	0	0	0	0	0	0	0	1	1	0	0	2	0	0	1	0	0	1	0	5
6:30AM	0	0	6	0	6	0	0	0	0	0	0	0	1	3	0	0	4	0	0	4	1	0	5	0	15
6:45AM	0	0	6	0	6	0	0	1	0	0	1	0	0	2	0	0	2	0	0	.	0	0	.	0	18
Hourly Total	1	0	1.	0	20	0	0	1	0	0	1	0	2	7	0	0	.	0	0	16	1	0	17	0	47
7:00AM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	3	0	0	3	0	6
7:15AM	0	0	15	0	15	0	1	0	0	0	1	0	0	0	0	0	0	0	0	7	1	0	8	0	24
7:30AM	1	0	.	0	10	0	1	0	0	0	1	0	3	2	1	0	6	0	0	5	0	0	5	0	22
7:45AM	0	0	12	0	12	0	0	0	0	0	0	0	2	3	0	0	5	0	0	5	1	0	6	0	23
Hourly Total	1	0	36	0	37	0	2	0	0	0	2	0	5	8	1	0	14	0	0	20	2	0	22	0	75
8:00AM	1	0	6	0	7	0	0	0	0	0	0	0	0	2	1	0	3	0	0	3	1	0	4	0	14
8:15AM	2	0	.	0	11	0	0	0	0	0	0	0	4	4	0	0	8	0	0	8	0	0	8	0	27
8:30AM	0	0	10	0	10	0	0	0	0	0	0	0	1	1	0	1	3	0	0	1	1	0	2	0	15
8:45AM	0	0	7	0	7	0	0	0	0	0	0	0	2	6	0	0	8	0	0	0	0	0	0	0	15
Hourly Total	3	0	32	0	35	0	0	0	0	0	0	0	7	13	1	1	22	0	0	12	2	0	14	0	71
.:00AM	0	0	11	0	11	0	0	0	0	0	0	0	0	2	1	0	3	0	0	6	0	0	6	0	20
.:15AM	0	0	.	0	.	0	0	0	0	0	0	0	1	5	0	0	6	0	0	5	0	0	5	0	20
.:30AM	0	0	6	0	6	0	0	0	1	0	1	0	3	1	3	0	7	0	0	1	0	0	1	0	15
.:45AM	0	0	8	0	8	0	0	0	0	0	0	0	3	0	1	0	4	1	0	4	0	0	4	0	16
Hourly Total	0	0	34	0	34	0	0	0	1	0	1	0	7	8	5	0	20	1	0	16	0	0	16	0	71
10:00AM	0	0	8	0	8	0	0	0	0	0	0	0	3	2	0	0	5	0	0	2	1	0	3	0	16
10:15AM	0	0	8	0	8	0	0	1	0	0	1	0	1	7	0	0	8	0	0	4	0	0	4	0	21
10:30AM	0	0	5	0	5	0	1	0	0	0	1	0	1	4	0	0	5	0	0	3	0	0	3	0	14
10:45AM	1	0	8	0	.	0	2	0	0	0	2	0	4	1	1	0	6	0	0	8	0	0	8	0	25
Hourly Total	1	0	2.	0	30	0	3	1	0	0	4	0	.	14	1	0	24	0	0	17	1	0	18	0	76
11:00AM	0	0	6	0	6	0	1	0	0	0	1	0	1	3	0	0	4	0	0	6	0	0	6	0	17
11:15AM	1	0	11	0	12	0	0	0	0	0	0	0	2	0	0	0	2	0	0	1	0	0	1	0	15
11:30AM	0	0	5	0	5	0	0	0	0	0	0	0	1	5	0	0	6	0	0	3	1	0	4	0	15
11:45AM	0	0	.	0	.	0	0	0	0	0	0	0	5	5	1	0	11	0	0	4	0	0	4	0	24
Hourly Total	1	0	31	0	32	0	1	0	0	0	1	0	.	13	1	0	23	0	0	14	1	0	15	0	71
12:00PM	0	0	7	0	7	1	0	0	0	0	0	0	5	6	0	0	11	0	0	4	1	0	5	0	23
12:15PM	1	0	8	0	.	0	0	0	0	0	0	0	3	3	0	0	6	0	0	3	0	0	3	0	18
12:30PM	0	0	11	0	11	0	0	0	0	0	0	0	4	5	0	0	.	0	0	6	1	0	7	0	27
12:45PM	1	0	7	0	8	0	0	0	0	0	0	0	5	5	0	0	10	0	0	4	1	0	5	0	23
Hourly Total	2	0	33	0	35	1	0	0	0	0	0	0	17	1.	0	0	36	0	0	17	3	0	20	0	.1
1:00PM	1	0	7	0	8	0	1	0	0	0	1	0	2	6	0	0	8	0	0	3	1	0	4	0	21
1:15PM	0	0	8	0	8	0	0	0	0	0	0	0	4	3	0	0	7	0	0	4	0	0	4	0	1.
1:30PM	0	0	3	0	3	0	0	0	0	0	0	0	0	5	0	0	5	1	0	3	0	0	3	0	11
1:45PM	1	0	.	0	10	0	0	0	0	0	0	0	6	2	1	0	.	2	0	4	0	0	4	0	23
Hourly Total	2	0	27	0	2.	0	1	0	0	0	1	0	12	16	1	0	2.	3	0	14	1	0	15	0	74
2:00PM	2	0	5	0	7	0	0	0	0	0	0	0	5	10	0	0	15	0	0	5	0	0	5	0	27
2:15PM	0	0	15	0	15	0	0	0	0	0	0	0	2	5	0	0	7	0	0	3	1	0	4	0	26
2:30PM	3	0	.	0	12	1	0	0	0	0	0	1	7	8	0	0	15	2	0	4	0	0	4	0	31
2:45PM	4	0	4	0	8	0	2	0	0	0	2	0	5	4	2	1	12	0	0	1	1	0	2	0	24
Hourly Total	.	0	33	0	42	1	2	0	0	0	2	1	1.	27	2	1	4.	2	0	13	2	0	15	0	108
3:00PM	2	0	.	0	11	0	1	0	0	0	1	0	4	10	0	0	14	0	0	3	0	0	3	0	2.
3:15PM	0	0	10	0	10	0	2	1	0	0	3	0	3	10	3	0	16	0	0	7	0	0	7	0	36
3:30PM	0	0	8	0	8	0	1	0	0	0	1	0	5	6	0	0	11	0	0	5	0	0	5	0	25
3:45PM	2	0	13	0	15	0	0	0	0	0	0	0	4	3	0	0	7	0	0	2	0	0	2	0	24
Hourly Total	4	0	40	0	44	0	4	1	0	0	5	0	16	2.	3	0	48	0	0	17	0	0	17	0	114
4:00PM	2	0	11	0	13	1	0	0	0	0	0	0	1	7	1	0	.	0	0	4	0	0	4	0	26

Leg Direction	access rd pastbound						access rd Westbound						murray rd Eorthbound						murray rd Southbound						
Time	L	T	R	U	ANN	Ped*	L	T	R	U	ANN	Ped*	L	T	R	U	ANN	Ped*	L	T	R	U	ANN	Ped*	Int
4:15PM	1	0	4	0	5	0	0	0	0	0	0	0	5	10	0	0	15	0	0	3	0	0	3	0	23
4:30PM	0	0	10	0	10	1	1	0	0	0	1	0	4	8	2	1	15	0	0	3	0	0	3	0	2.
4:45PM	1	0	.	0	10	0	0	0	0	0	0	0	5	.	0	0	14	0	0	4	2	0	6	0	30
Hourly Total	4	0	34	0	38	2	1	0	0	0	1	0	15	34	3	1	53	0	0	14	2	0	16	0	108
5:00PM	1	0	12	0	13	0	0	0	0	0	0	0	6	11	1	0	18	0	0	1	0	0	1	0	32
5:15PM	2	0	12	0	14	0	0	0	0	0	0	0	0	6	1	0	7	0	0	1	0	0	1	0	22
5:30PM	2	0	.	0	11	0	0	0	0	0	0	0	2	3	0	0	5	0	0	4	1	0	5	0	21
5:45PM	1	0	7	0	8	0	0	0	0	0	0	0	2	7	0	0	.	0	0	2	0	0	2	0	1.
Hourly Total	6	0	40	0	46	0	0	0	0	0	0	0	10	27	2	0	3.	0	0	8	1	0	.	0	.4
6:00PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hourly Total	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	34	0	38.	0	423	4	14	3	1	0	18	1	128	215	20	3	366	6	0	178	16	0	1.4	0	1001
% ANRoach	89%	0%	.29%	0%	-	-	77%	8%	16%	7%	5%	0%	-	-	35%	0%	58%	7%	5%	0%	8%	-	-	-	-
% Total	39%	0%	38%	0%	42%	3%	19%	0%	3%	0%	1%	0%	12%	21%	5%	2%	0%	9%	0%	17%	3%	1%	9%	-	-
Lights	33	0	370	0	403	-	14	3	1	0	18	-	101	202	20	3	326	-	0	148	15	0	163	-	.10
% Lights	.79%	0%	.59%	0%	.58%	-	100%	100%	100%	0%	100%	-	78%	9%	100%	100%	8.9%	-	0%	83%	9%	.38%	0%	84%	9%
Single-Unit Trucks	1	0	8	0	.	-	0	0	0	0	0	-	12	2	0	0	14	-	0	12	1	0	13	-	36
% Single-Unit Trucks	29%	0%	29%	0%	29%	-	0%	0%	0%	0%	0%	-	.9%	0%	0%	0%	39%	-	0%	69%	68%	0%	69%	-	36%
Articulated Trucks	0	0	10	0	10	-	0	0	0	0	0	-	15	11	0	0	26	-	0	18	0	0	18	-	54
% Articulated Trucks	0%	0%	25%	0%	29%	-	0%	0%	0%	0%	0%	-	11%	5%	0%	0%	79%	-	0%	10%	0%	0%	.9%	-	54%
Buses	0	0	1	0	1	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	1
% Buses	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%
Bicycles on Road	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0
% Bicycles on Road	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%
Pedestrians	-	-	-	-	-	4	-	-	-	-	-	1	-	-	-	-	-	6	-	-	-	-	-	0	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	-	

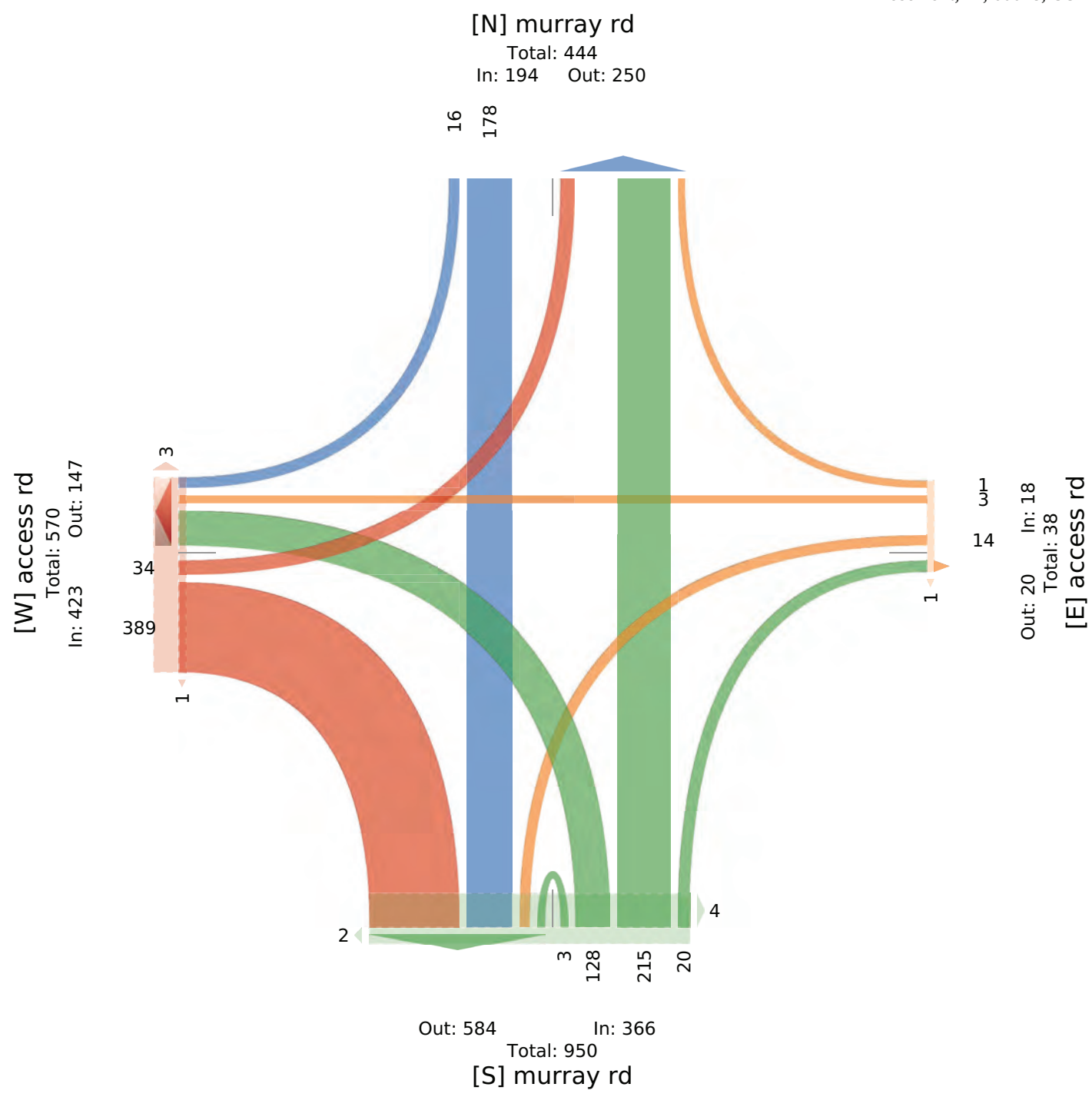
*Pedestrians and Bicycles on Crosswalk9L: Left, R: Right, T: Thru, U: U-Turn

hotel access and murray rd - TMC
Tue Mar 4, 2025
Full Length (6 AM-6 PM)
All Classes (Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road)
All Movements
ID: 1273714, Location: 40°30.36', -88°17.472.



Kenig, Lindgren, O'Hara, Aboona, Inc.

Provided by: Kenig Lindgren O'Hara Aboona, Inc9
. 575 W9Higgins Rd9 Suite 400,
Rosemont, IL, 60018, US



hotel access and murray rd - TMC

Tue Mar 4, 2025

FM l eaL ngth0 FM (6th0 FMA

F – P-a))e) nCsi SÜ, cski -e(d ksUTruBL), FrÜBü-aly TruBL), ou)e), l eye)Üsak),
o sRBe) vk mvayA

F – MvI eDekÜ

:1 t 72ghg74, CvBüvkt 403h09h. 9, (6637g4g29



l rvI syey 8R b eksi Cskyi rek KO ara F 8vvka,
:kB

95g5 H 3' si i sk) my3 cusl 400,
mv)eDvkÜ:C, . 0076, d c

Cei 1 seBüvk	aBBe)) ry Vü)Üvuky	aBBe)) ry H e)Üvuky	DurraRry p vrÜ8vuky	DurraRry cvulÜ8vuky	
TsDe	C T m d FEE l eyN	C T m d FEE l eyN	C T m d FEE l eyN	C T m d FEE l eyN	:kU
2025(0h(04 gth0FM	7 0 9 0 70 0	7 0 0 0 7 0	h 2 7 0 . 0	0 5 0 0 5 0	22
gt45FM	0 0 72 0 72 0	0 0 0 0 0 0	2 h 0 0 5 0	0 5 7 0 . 0	2h
6t00FM	7 0 . 0 g 0	0 0 0 0 0 0	0 2 7 0 h 0	0 h 7 0 4 0	74
6t75FM	2 0 9 0 77 0	0 0 0 0 0 0	4 4 0 0 6 0	0 6 0 0 6 0	2g
TvÜ-	4 0 h. 0 40 0	7 0 0 0 7 0	9 77 2 0 22 0	0 27 2 0 2h 0	6.
* FEEvabS	703* 0* 903* 0* ((	700* 0* 0* 0* ((	403* 503* 93* 0* ((	0* 973* 63* 0* ((	(
* TvÜ-	43* 0* 473* 0* 4. 35* (	732* 0* 0* 0* 732* (	703* 723* 23* 0* 253 * (	0* 243* 23* 0* 2. 3* (	(
l' %	03500 (0350 (036hh (	03250 (((03250 (	035. h 03 66 03500 (03 66 (	(03 5. 03500 (0379 (	039.
Csi SÜ	4 0 h4 0 h6 (	7 0 0 0 7 (	6 70 2 0 20 (	0 76 2 0 20 (	g9
* Csi SÜ	700* 0* 943* 0* 953* (	700* 0* 0* 0* 700* (	663* 903* 700* 0* 903* (	0* 653* 700* 0* 6g3* (	973*
cski -e(d ksUTruBL)	0 0 7 0 7 (	0 0 0 0 0 (	7 0 0 0 7 (	0 7 0 0 7 (	h
* cski -e(d ksUTruBL)	0* 0* 23* 0* 235* (	0* 0* 0* 0* 0* (	773* 0* 0* 0* 43* (	0* 43* 0* 0* 43* (	h35*
FrÜBü-aly TruBL)	0 0 7 0 7 (	0 0 0 0 0 (	0 7 0 0 7 (	0 2 0 0 2 (	4
* FrÜBü-aly TruBL)	0* 0* 23* 0* 235* (	0* 0* 0* 0* 0* (	0* 93* 0* 0* 43* (	0* 93* 0* 0* 63* (	43*
ou)e)	0 0 0 0 0 (	0 0 0 0 0 (	0 0 0 0 0 (	0 0 0 0 0 (	0
* ou)e)	0* 0* 0* 0* 0* (	0* 0* 0* 0* 0* (	0* 0* 0* 0* 0* (	0* 0* 0* 0* 0* (	0*
o sRBe) vk mvay	0 0 0 0 0 (	0 0 0 0 0 (	0 0 0 0 0 (	0 0 0 0 0 (	0
* o sRBe) vk mvay	0* 0* 0* 0* 0* (	0* 0* 0* 0* 0* (	0* 0* 0* 0* 0* (	0* 0* 0* 0* 0* (	0*
l eye)Üsak)	(((((0	(((((0	(((((0	(((((0	
* l eye)Üsak)	((((((	((((((	((((((	((((((	(

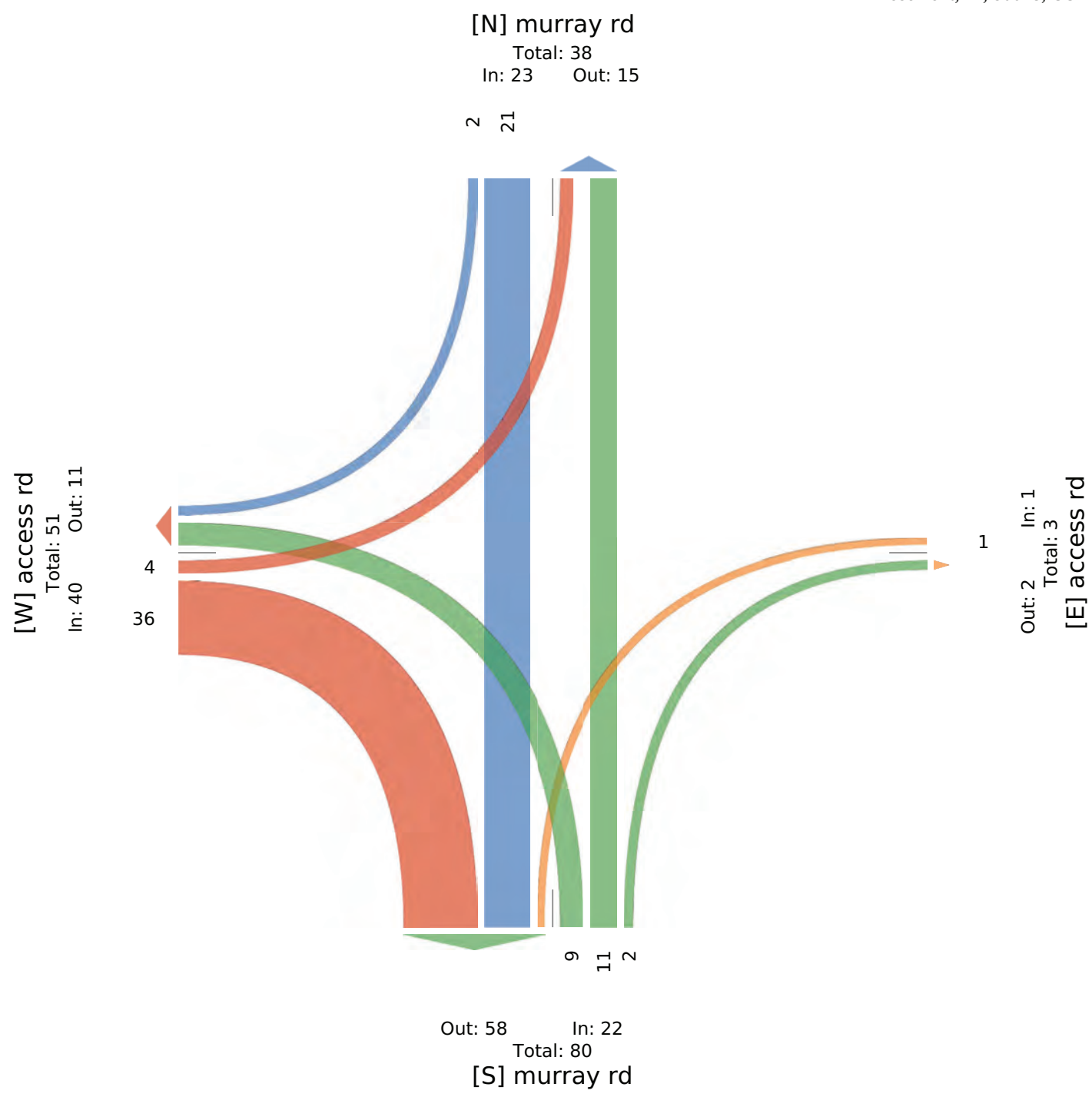
Nl eye)Üsak) aky o sRBe) vk Prv))wa-L3Ct CefÜmt msi SÜTt TSru, d t d (Turk

hotel access and murray rd - TMC

Tue Mar 4, 2025
AM Peak (7:30 AM - 8:30 AM)
All Classes (Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road)
All Movements
ID: 1273714, Location: 4090.3b. , -889.7472.



Provided By: Oenig Lindgren ' Wara AKoona, Inc9
. 575 6 9 Wiggins Rd9 Suite 400,
Rosemont, IL, b0018, US



hotel access and murray rd - TMC

Tue Mar 4, 2025

MH l aL neag thh(45 6 M Ah2(45 nM-

6 P) hCtCs F SUC, c fki RAl kRUTruBgC, 6 rUBuhtl TruBgC, yuGc, nel eCfakC

y HLBRCok Roal -

6 PMovemekUC

ID(h2: 1: h4, s oBuk(40703193, A. h: 4: 23



nrovH el 8L(b ekf s fl i rek KO ara 6 8ooka, IkB7

35: 5 H 7' fi kCRl 7 cuH 400, RoCemokUls, 900h. , d c

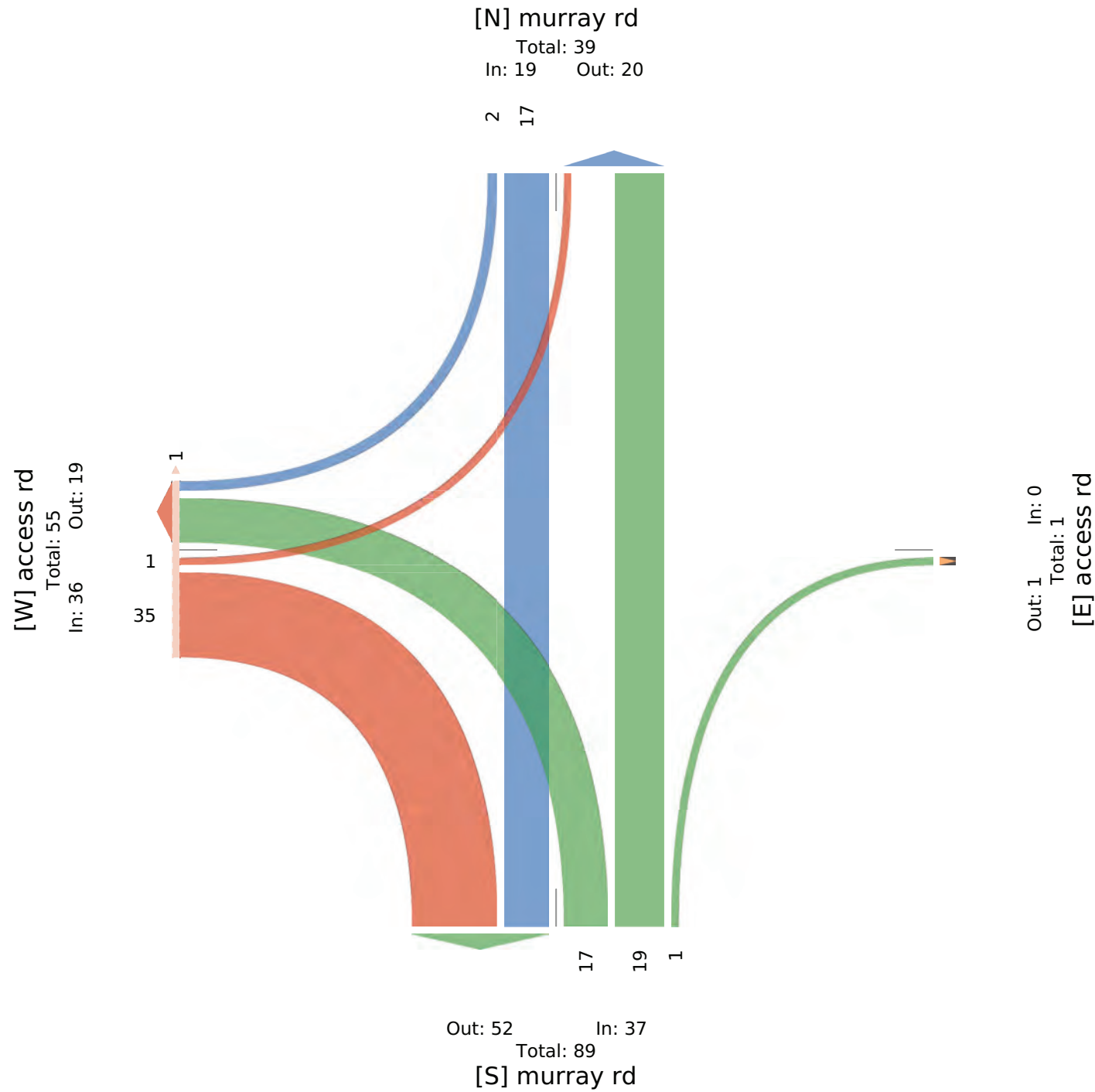
sei DfreBuk	aBCCrl WcBoukl	aBCCrl H eC8oukl	murraLrl p orS8oukl	murraLrl couLS8oukl	
Tfme	s T R d 6 EE nel N	s T R d 6 EE nel N	s T R d 6 EE nel N	s T R d 6 EE nel N	iku
2025/01/04 hh(456 M	0 0 3 0 3 0	0 0 0 0 0 0	5 5 h 0 hh 0	0 4 0 0 4 0	24
h2(00nM	0 0 : 0 : h	0 0 0 0 0 0	5 9 0 0 hh 0	0 4 h 0 5 0	21
h2(h5nM	h 0 . 0 3 0	0 0 0 0 0 0	1 1 0 0 9 0	0 1 0 0 1 0	h.
h2(10nM	0 0 hh 0 hh 0	0 0 0 0 0 0	4 5 0 0 3 0	0 9 h 0 : 0	2:
TotalP	h 0 15 0 19 h	0 0 0 0 0 0	h: h3 h 0 1: 0	0 h: 2 0 h3 0	32
* 6 EEroaBS	27 * 0* 3: 2* 0* A	0* 0* 0* 0* A	4573* 5h74* 27 * 0* A	0* . 375* h075* 0* A	A
* TotalP	h7* 0* 1. 70* 0* 137* A	0* 0* 0* 0* 0* A	h. 75* 207 * h7* 0* 402* A	0* h. 75* 272* 0* 207 * A	A
n' %	07250 A 07.35 A 07 h.	A A A A A A	07.50 07.32 07250 A 07 4h	A A 07.0. 07500 A 09: 3	A 07.52
s fi SUC	h 0 14 0 15	A 0 0 0 0 0 0	A h1 h: h 0 1h	A 0 h2 2 0 h4	A . 0
* s fi SUC	h00* 0* 3: 7* 0* 3: 2* A	0* 0* 0* 0* A	A : 975* . 375* h00* 0* . 17 * A	0* : 07* h00* 0* : 17 * A	A . : 70*
c fki RAl kRUTruBgC	0 0 0 0 0 0	A 0 0 0 0 0 0	A 2 0 0 0 0 2	A 0 1 0 0 1	A 5
* c fki RAl kRUTruBgC	0* 0* 0* 0* 0* A	0* 0* 0* 0* A	A hh7 * 0* 0* 0* 574* A	0* h: 7* 0* 0* h57 * A	A 574*
6 rUBuhtl TruBgC	0 0 h 0 h	A 0 0 0 0 0 0	A 2 2 0 0 4	A 0 2 0 0 2	A :
* 6 rUBuhtl TruBgC	0* 0* 273* 0* 27 * A	0* 0* 0* 0* A	A hh7 * h075* 0* 0* h07 * A	0* hh7 * 0* 0* h075* A	A : 7*
yuGc	0 0 0 0 0 0	A 0 0 0 0 0 0	A 0 0 0 0 0 0	A 0 0 0 0 0 0	A 0
* yuGc	0* 0* 0* 0* 0* A	0* 0* 0* 0* A	A 0* 0* 0* 0* 0* A	0* 0* 0* 0* 0* A	A 0*
y HLBRCok Roal	0 0 0 0 0 0	A 0 0 0 0 0 0	A 0 0 0 0 0 0	A 0 0 0 0 0 0	A 0
* y HLBRCok Roal	0* 0* 0* 0* 0* A	0* 0* 0* 0* A	A 0* 0* 0* 0* 0* A	0* 0* 0* 0* 0* A	A 0*
nel eCfakC	A A A A A h	A A A A A 0	A A A A A 0	A A A A A 0	
* nel eCfakC	A A A A Ah00*	A A A A A	A A A A A A	A A A A A A	A

N nel eCfakCakl y HLBRCok) roCwaBg7s (s efUR(Rf SUT(TSru, d (d A Turk

hotel access and murray rd - TMC

Tue Mar 4, 2025
MAPak (ea7 :33-45 8 M) 32-45 (MI
8 Cs GILeL: i AhtL, SAgE)UnA Truc7L, 8 rtAuGteP Truc7L, duLeL, (ePeItrAnL,
d AkcGLBn y BaPl
8 CMBoeRentL
vm- 32I DI 34, i BcatAn- 401D9D 9,)bbBI 4I 29

KLOA
Kenig, Lindgren, O'Hara, Aboona, Inc.
(rBoPeP Kk- OenAg i APgren ' Wara 8 KBna,
vic1
95I 5 6 1WAgALy P1, SuAe 400,
y BLEREnt, vi , . 003b, US



hotel access and murray rd - TMC

Tue Mar 4, 2025

FM Feal I2rg0 FM t grg0 FMht (6eraAFeal - Pur

) ACAsse Li SÜcks, dSÜAty B&Truol s,) rKouAleRTruol s, v uses, FeReskSÜBs, v SömoAs PBI PaRh

) AMP6eDeBIs

:1 n723g374, i PoakPBn40g0. g8. , tbb973432.



FrP6SeR KmOeBSÜi SRUreB(' - ara) KPPBa, :Bo9

. 535 H 9- SÜSBs I R9 duSe 400, I PseDPBk :i , 8007b, y d

i eU 1 SeokPB	aoeess rR WäskKPuBR	aoeess rR H eskkPuBR	DurramrR p PrckKPuBR	DurramrR dPulckKPuBR	
TSDe	i T I y) EE FeRN	i T I y) EE FeRN	i T I y) EE FeRN	i T I y) EE FeRN	Bk
2025t0gt04 2rg0FM	g 0 . 0 72 7	0 0 0 0 0 7	3 b 0 0 75 2	0 4 0 0 4 0	g7
2m5FM	4 0 4 0 b 0	2 0 0 0 2 0	5 4 2 7 72 0	0 7 7 0 2 0	24
gr00FM	2 0 . 0 77 0	7 0 0 0 7 0	4 70 0 0 74 0	0 g 0 0 g 0	2.
gr75FM	0 0 70 0 70 0	2 7 0 0 g 0	g 70 g 0 78 0	0 3 0 0 3 0	g8
TPlaA	. 0 g2 0 47 7	5 7 0 0 8 7	7. g2 5 7 53 2	0 75 7 0 78 0	720
*) EEPaoc	229* 0* 3b9* 0* t	bg9g* 789* 0* 0* t	gg9g* 589* b9* 79* t	0* . g9* 89* 0* t	t
* TPlaA	39* 0* 289* 0* g49* t	49* 09* 0* 0* 59* t	759* 289* 49* 09* 439* t	0* 729* 09* 0* 7g9* t	t
F- %	0958g t 0900 t 0954 t	0925 09250 t t 09500 t	093. 0900 09473 09250 09. 7 t	t 09588 09250 t 09537 t	09gg
i SÜcks	. 0 g0 0 g. t	5 7 0 0 8 t	75 g0 5 7 57 t	0 75 7 0 78 t	772
* i SÜcks	700* 0* . g9* 0* . 59* t	700* 700* 0* 0* 700* t	3b9 * . g9* 700* 700* b. 9* t	0* 700* 700* 0* 700* t	. g9*
dSÜAty B&Truol s	0 0 7 0 7 t	0 0 0 0 0 0 t	2 0 0 0 0 2 t	0 0 0 0 0 0 t	g
* dSÜAty B&Truol s	0* 0* g9* 0* 29* t	0* 0* 0* 0* 0* t	709* 0* 0* 0* g9* t	0* 0* 0* 0* 0* t	29*
) rKouAleRTruol s	0 0 7 0 7 t	0 0 0 0 0 0 t	2 2 0 0 0 4 t	0 0 0 0 0 0 t	5
*) rKouAleRTruol s	0* 0* g9* 0* 29* t	0* 0* 0* 0* 0* t	709* 89* 0* 0* 39* t	0* 0* 0* 0* 0* t	49*
v uses	0 0 0 0 0 t	0 0 0 0 0 0 t	0 0 0 0 0 0 t	0 0 0 0 0 0 t	0
* v uses	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0*
v SömoAs PBI PaR	0 0 0 0 0 t	0 0 0 0 0 0 t	0 0 0 0 0 0 t	0 0 0 0 0 0 t	0
* v SömoAs PBI PaR	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0*
FeReskSÜBs	t t t t t 7	t t t t t 7	t t t t t 2	t t t t t 0	
* FeReskSÜBs	t t t t t 700*	t t t t t 700*	t t t t t 700*	t t t t t t	t

NFeReskSÜBs aBR v SömoAs PBCrPsswaA9i ni efk I nI SÜck TnTcru, y ny tTurB

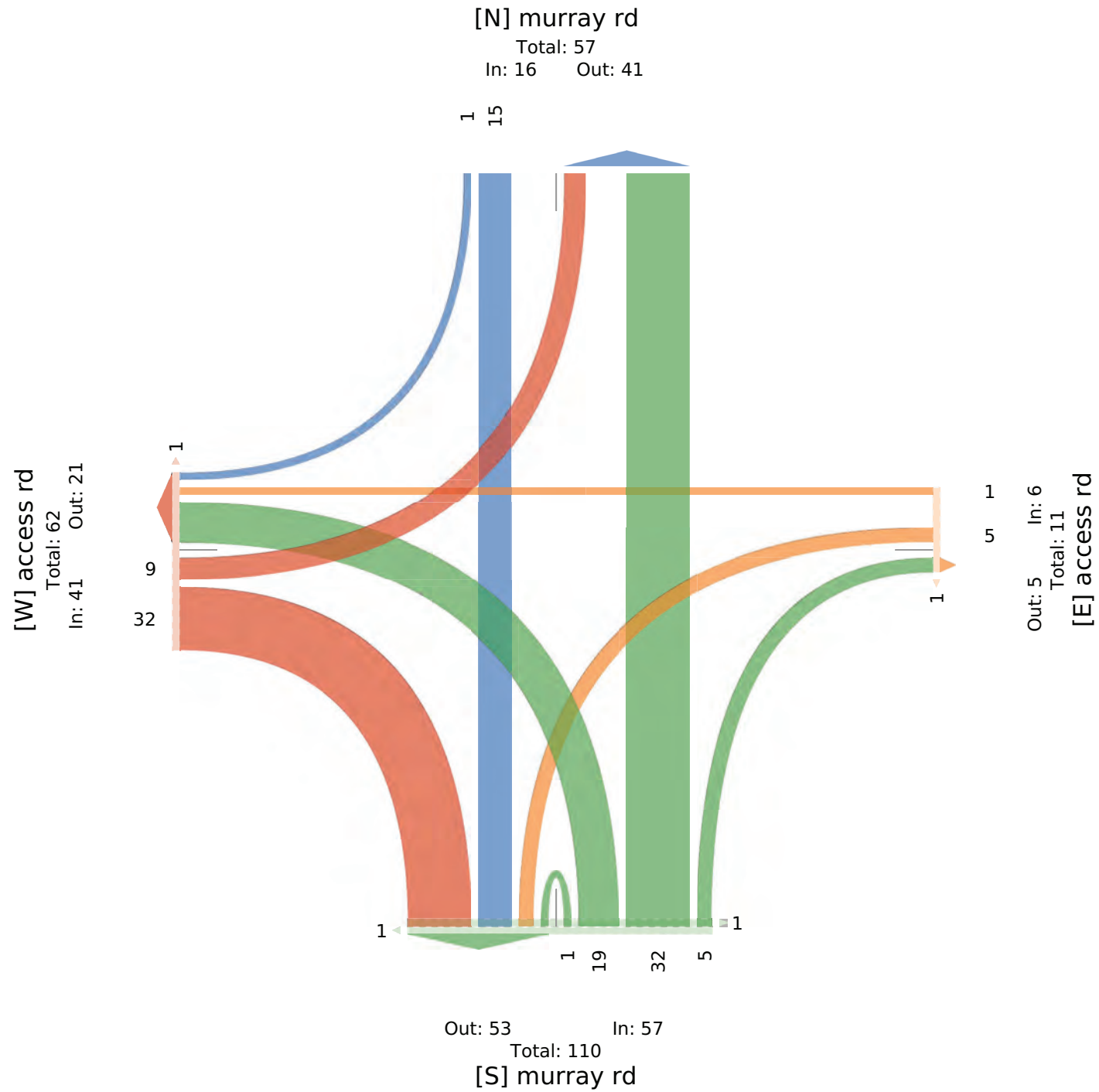
hotel access and murray rd - TMC

Tue Mar 4, 2025
AM AeaP k2(70 AM : 7(70 AM3: - 8era)) AeaP1 Cur
s)) L)aiiei lglt Sri, Urtt je:d chnTruBPi, s m(Bu)arey TruBPi, o uiei, Aeyei m(aci,
o H(B)ei Cc v Cay3
s)) MCBemecri
ID(1297914, gCBatCc(40.70b7Kb, :0019492b



Kenig, Lindgren, O'Hara, Aboona, Inc.

ArCBlyey ' R(Hecht ghcyt rec - Wara s ' CCca,
IcB
b595 6 . l lt t lci v y., Uulre 400,
v GemCcn Ig, k001Q, d U



Murray Road with Champaign Avenue Service Ro... - TMC

Tue Mar 4, 2025

Full Length (6 AM-6 PM)

All Classes (Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians,
Bicycles on Road)

All Movements

ID: 1273591, Location: 40.308787, -88.174751



Provided by: Kenig Lindgren O'Hara Aboona, Inc.
9575 W. Higgins Rd., Suite 400,
Rosemont, IL, 60018, US

Leg Direction	Champaign Avenue Service Road Eastbound							Champaign Avenue Service Road Westbound							Murray Road Northbound							Murray Road Southbound							
Time	L	T	R	U	App	Ped*		L	T	R	U	App	Ped*		L	T	R	U	App	Ped*		L	T	R	U	App	Ped*	Int	
2025-03-04																													
6:00AM	0	0	3	0	3	0		0	0	0	0	0	0		11	1	0	0	12	0		0	5	0	0	5	0	20	
6:15AM	0	0	3	0	3	0		0	0	0	0	0	0		6	2	0	0	8	0		0	5	0	0	5	0	16	
6:30AM	0	0	4	0	4	0		0	0	0	0	0	0		10	4	0	0	14	0		0	8	1	0	9	0	27	
6:45AM	0	0	4	0	4	0		0	0	0	0	0	0		8	1	1	0	10	0		0	15	0	0	15	0	29	
Hourly Total	0	0	14	0	14	0		0	0	0	0	0	0		35	8	1	0	44	0		0	33	1	0	34	0	92	
7:00AM	0	0	7	0	7	0		0	0	0	0	0	0		10	4	0	0	14	0		0	7	0	0	7	0	28	
7:15AM	0	0	5	0	5	0		0	0	0	0	0	0		20	0	0	0	20	0		0	23	0	0	23	0	48	
7:30AM	0	0	5	0	5	0		0	0	0	0	0	0		19	5	0	0	24	0		1	12	0	0	13	0	42	
7:45AM	0	0	8	0	8	0		0	0	0	0	0	0		20	5	0	0	25	0		0	17	0	0	17	0	50	
Hourly Total	0	0	25	0	25	0		0	0	0	0	0	0		69	14	0	0	83	0		1	59	0	0	60	0	168	
8:00AM	0	0	7	0	7	0		0	1	0	0	1	0		23	4	0	0	27	0		0	9	0	0	9	0	44	
8:15AM	0	0	9	0	9	0		0	0	0	0	0	0		14	7	0	0	21	0		0	17	0	0	17	0	47	
8:30AM	0	0	5	0	5	0		0	0	0	0	0	0		13	4	0	0	17	0		0	11	0	0	11	0	33	
8:45AM	1	0	5	0	6	0		0	0	0	0	0	0		13	7	0	0	20	0		0	9	0	0	9	0	35	
Hourly Total	1	0	26	0	27	0		0	1	0	0	1	0		63	22	0	0	85	0		0	46	0	0	46	0	159	
9:00AM	0	0	7	0	7	0		0	0	0	0	0	0		19	2	0	0	21	0		0	18	0	0	18	0	46	
9:15AM	0	0	12	0	12	0		0	0	0	0	0	0		16	6	1	0	23	0		0	10	1	0	11	0	46	
9:30AM	0	0	11	0	11	0		0	0	0	0	0	0		8	7	0	0	15	0		0	7	0	0	7	0	33	
9:45AM	0	0	5	0	5	0		0	0	0	0	0	0		14	4	0	0	18	0		0	13	0	0	13	1	36	
Hourly Total	0	0	35	0	35	0		0	0	0	0	0	0		57	19	1	0	77	0		0	48	1	0	49	1	161	
10:00AM	0	0	12	0	12	1		2	0	0	0	2	0		18	7	2	0	27	0		0	10	0	0	10	0	51	
10:15AM	1	0	9	0	10	0		1	0	0	0	1	0		11	5	0	0	16	0		0	11	0	0	11	0	38	
10:30AM	0	0	8	0	8	0		2	0	0	0	2	0		11	5	2	0	18	0		0	9	0	0	9	0	37	
10:45AM	0	0	12	0	12	0		2	0	0	0	2	0		21	6	1	0	28	0		1	17	1	0	19	0	61	
Hourly Total	1	0	41	0	42	1		7	0	0	0	7	0		61	23	5	0	89	0		1	47	1	0	49	0	187	
11:00AM	0	0	15	0	15	0		4	0	0	0	4	0		22	5	4	0	31	1		0	13	1	0	14	0	64	
11:15AM	0	0	10	0	10	0		6	0	0	0	6	0		14	1	1	0	16	0		0	11	0	0	11	0	43	
11:30AM	0	1	13	0	14	0		9	0	1	0	10	0		12	6	3	0	21	0		0	8	0	0	8	0	53	
11:45AM	0	0	5	0	5	0		19	1	3	0	23	0		19	7	4	0	30	0		0	11	0	0	11	0	69	
Hourly Total	0	1	43	0	44	0		38	1	4	0	43	0		67	19	12	0	98	1		0	43	1	0	44	0	229	
12:00PM	0	0	17	0	17	1		19	0	1	0	20	0		19	8	6	0	33	0		2	10	0	0	12	0	82	
12:15PM	0	2	20	0	22	0		11	1	1	0	13	0		14	7	2	0	23	0		0	12	0	0	12	0	70	
12:30PM	0	0	8	1	9	0		4	2	1	0	7	0		16	7	1	0	24	0		2	12	0	0	14	0	54	
12:45PM	1	0	12	0	13	0		8	0	1	0	9	0		15	7	1	0	23	0		0	13	0	0	13	0	58	
Hourly Total	1	2	57	1	61	1		42	3	4	0	49	0		64	29	10	0	103	0		4	47	0	0	51	0	264	
1:00PM	0	1	10	0	11	0		9	0	1	0	10	0		20	7	2	0	29	0		0	10	0	0	10	0	60	
1:15PM	0	0	17	0	17	0		6	0	1	0	7	0		19	7	4	0	30	0		1	11	0	0	12	0	66	
1:30PM	0	0	11	0	11	0		5	1	0	0	6	0		12	4	2	0	18	0		0	8	0	0	8	0	43	
1:45PM	0	0	6	0	6	0		11	0	0	0	11	0		15	12	3	0	30	0		1	11	0	0	12	0	59	
Hourly Total	0	1	44	0	45	0		31	1	2	0	34	0		66	30	11	0	107	0		2	40	0	0	42	0	228	
2:00PM	0	1	11	0	12	0		7	0	1	0	8	1		20	11	1	0	32	2		0	10	0	0	10	0	62	
2:15PM	0	0	7	0	7	0		5	0	0	0	5	0		9	6	1	0	16	0		0	15	1	0	16	0	44	
2:30PM	0	0	15	0	15	0		5	0	0	0	5	1		23	17	3	0	43	1		1	11	0	0	12	0	75	
2:45PM	1	0	16	0	17	0		11	0	0	0	11	0		14	11	1	0	26	0		0	8	0	0	8	0	62	
Hourly Total	1	1	49	0	51	0		28	0	1	0	29	2		66	45	6	0	117	3		1	44	1	0	46	0	243	
3:00PM	0	0	7	0	7	0		3	0	0	0	3	0		22	12	3	0	37	0		0	15	0	0	15	0	62	
3:15PM	1	0	14	0	15	0		6	0	2	0	8	0		14	15	4	0	33	0		0	18	0	0	18	0	74	
3:30PM	0	0	15	0	15	0		11	1	0	0	12	0		16	10	3	0	29	0		0	13	0	0	13	0	69	
3:45PM	0	0	5	0	5	0		4	0	1	0	5	0		15	7	2	0	24	0		0	15	1	0	16	0	50	
Hourly Total	1	0	41	0	42	0		24	1	3	0	28	0		67	44	12	0	123	0		0	61	1	0	62	0	255	
4:00PM	0	0	8	0	8	0		6	0	1	0	7	1		17	8	1	0	26	0		0	14	0	0	14	0	55	
4:15PM	0	0	8	0	8	0		3	0	0	0	3	0		12	16	4	0	32	0		0	8	0	0	8	0	51	
4:30PM	0	1	11	0	12	1		13	1	1	0	15	1		16	13	4	0	33	1		0	15	0	0	15	0	75	
4:45PM	1	0	15	0	16	0		8	0	0	0	8	0		13	12	0	0	25	0		2	13	0	0	15	0	64	

Leg Direction	Champaign Avenue Service Road Eastbound							Champaign Avenue Service Road Westbound							Murray Road Northbound							Murray Road Southbound							
Time	L	T	R	U	App	Ped*		L	T	R	U	App	Ped*		L	T	R	U	App	Ped*		L	T	R	U	App	Ped*	Int	
Hourly Total	1	1	42	0	44	1		30	1	2	0	33	2		58	49	9	0	116	1		2	50	0	0	52	0		245
5:00PM	1	0	10	0	11	0		10	0	2	0	12	0		21	16	2	0	39	0		0	11	0	0	11	0		73
5:15PM	0	0	12	0	12	0		7	0	1	0	8	0		19	6	4	0	29	0		0	14	0	0	14	0		63
5:30PM	0	0	1	0	1	0		5	0	0	0	5	0		10	5	3	0	18	0		0	13	1	0	14	0		38
5:45PM	0	0	3	0	3	0		6	0	1	0	7	0		11	8	2	0	21	0		0	8	0	0	8	0		39
Hourly Total	1	0	26	0	27	0		28	0	4	0	32	0		61	35	11	0	107	0		0	46	1	0	47	0		213
Total	7	6	443	1	457	3		228	8	20	0	256	4		734	337	78	0	1149	5		11	564	7	0	582	1		2444
% Approach	1.5%	1.3%	96.9%	0.2%	-	-		89.1%	3.1%	7.8%	0%	-	-		63.9%	29.3%	6.8%	0%	-	-		1.9%	96.9%	1.2%	0%	-	-		-
% Total	0.3%	0.2%	18.1%	0%	18.7%	-		9.3%	0.3%	0.8%	0%	10.5%	-		30.0%	13.8%	3.2%	0%	47.0%	-		0.5%	23.1%	0.3%	0%	23.8%	-		-
Lights	7	5	400	1	413	-		225	5	19	0	249	-		689	298	76	0	1063	-		10	519	5	0	534	-		2259
% Lights	100%	83.3%	90.3%	100%	90.4%	-		98.7%	62.5%	95.0%	0%	97.3%	-		93.9%	88.4%	97.4%	0%	92.5%	-		90.9%	92.0%	71.4%	0%	91.8%	-		92.4%
Single-Unit Trucks	0	0	14	0	14	-		2	0	1	0	3	-		13	14	2	0	29	-		0	18	2	0	20	-		66
% Single-Unit Trucks	0%	0%	3.2%	0%	3.1%	-		0.9%	0%	5.0%	0%	1.2%	-		1.8%	4.2%	2.6%	0%	2.5%	-		0%	3.2%	28.6%	0%	3.4%	-		2.7%
Articulated Trucks	0	0	28	0	28	-		1	0	0	0	1	-		31	25	0	0	56	-		0	25	0	0	25	-		110
% Articulated Trucks	0%	0%	6.3%	0%	6.1%	-		0.4%	0%	0%	0%	0.4%	-		4.2%	7.4%	0%	0%	4.9%	-		0%	4.4%	0%	0%	4.3%	-		4.5%
Buses	0	0	0	0	0	-		0	0	0	0	0	-		1	0	0	0	1	-		0	1	0	0	1	-		2
% Buses	0%	0%	0%	0%	0%	-		0%	0%	0%	0%	0%	-		0.1%	0%	0%	0%	0.1%	-		0%	0.2%	0%	0%	0.2%	-		0.1%
Bicycles on Road	0	1	1	0	2	-		0	3	0	0	3	-		0	0	0	0	0	-		1	1	0	0	2	-		7
% Bicycles on Road	0%	16.7%	0.2%	0%	0.4%	-		0%	37.5%	0%	0%	1.2%	-		0%	0%	0%	0%	0%	-		9.1%	0.2%	0%	0%	0.3%	-		0.3%
Pedestrians	-	-	-	-	-	3		-	-	-	-	-	4		-	-	-	-	-	5		-	-	-	-	-	1		
% Pedestrians	-	-	-	-	-	100%		-	-	-	-	-	100%		-	-	-	-	-	100%		-	-	-	-	-	100%		

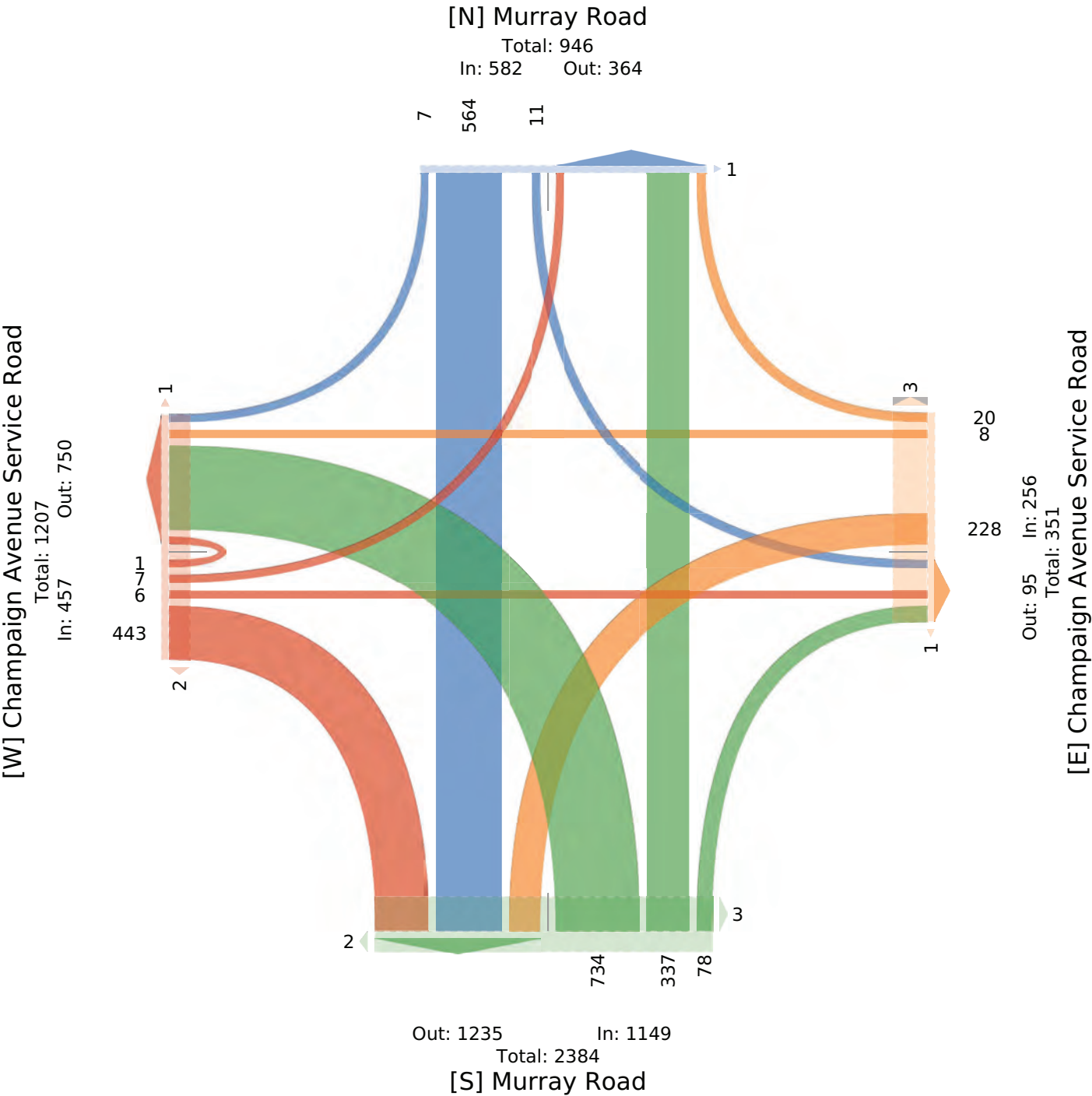
*Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Murray Road with Champaign Avenue Service Ro... - TMC

Tue Mar 4, 2025
Full Length (6 AM-6 PM)
All Classes (Lights, Single-Unit Trucks, Articulated Trucks, Buses, Pedestrians, Bicycles on Road)
All Movements
ID: 1273591, Location: 40.308787, -88.174751



Provided by: Kenig Lindgren O'Hara Aboona, Inc.
9575 W. Higgins Rd., Suite 400,
Rosemont, IL, 60018, US



Murray Road with Champaign Avenue Service Road - TMC

Tue Mar 4, 2025

FM 1 eaL ng0 FM t gg FMh

F ((6 (aAeAn- B) C&A i B) (etUSB TrucLA F rsRu(asek TrucLA d uAeA l ekeArB&SA
d R&C(eAyS o yakh

F ((MyRev eS&A

nh Dg2: 157g, - ycasRySD403109: 9: , t993g: 4: 5g



l ryR&ek . BD& eS& - B&K) reS b K&ara F . yySa,
r&sc3
75: 5 ' 30B) B&Ao k3 i uB&e 400,
o y&ev yS&s m, H00g9, Ui

- e)	6 Cav W&B S F ReSue i erR&e o yak	6 Cav W&B S F ReSue i erR&e o yak	MurraBo yak	MurraBo yak	
I RecsRyS	pa&A yuSk	' e&A yuSk	EyrsC yuSk	i yusC yuSk	
TRv e	- T o U FWW l ekN	- T o U FWW l ekN	- T o U FWW l ekN	- T o U FWW l ekN	r&ss
2025t01t04g0D0FM	0 0 g2 0 g2 g	2 0 0 0 2 0	g9 : 2 0 2: 0	0 g0 0 0 g0 0	5g
g0B5FM	g 0 7 0 g0 0	g 0 0 0 g 0	gg 5 0 0 gH 0	0 gg 0 0 gg 0	19
g0D0FM	0 0 9 0 9 0	2 0 0 0 2 0	gg 5 2 0 g9 0	0 7 0 0 7 0	1:
g0D5FM	0 0 g2 0 g2 0	2 0 0 0 2 0	2g H g 0 29 0	g g: g 0 g7 0	Hg
Tysa(	g 0 4g 0 42 g	: 0 0 0 : 0	Hg 21 5 0 97 0	g 4: g 0 47 0	g9:
* F W&yacC	23* 0* 7: 3H* 0* t t	g00* 0* 0* 0* t t	H&3* 25& 53H* 0* t t	23* 753* 23* 0* t t	t
* Tysa(	03* 0* 2g3* 0* 223* t	13* 0* 0* 0* 13* t	123H* g23* 23* 0* 4: 3H* t	03* 253* 03* 0* 2H&2* t	t
l O%	03250 t 03&54 t 03&: 5 t	03&: 5 t t t 03&: 5 t	03 2H 03&2g 03&25 t 03 75 t	03250 03&7g 03250 t 03&45 t	03 HH
- B) C&A	g 0 1H 0 1: t	: 0 0 0 : t	5: 2g 5 0 91 t	g 44 0 0 45 t	g: 2
* - B) C&A	g00* 0* 9: 3&* 0* 993* t	g00* 0* 0* 0* g00* t	713* 7g&3* g00* 0* 713* t	g00* 713H* 0* 0* 7g&3* t	723*
i B&S(etUSB TrucLA	0 0 2 0 2 t	0 0 0 0 0 t	g g 0 0 2 t	0 2 g 0 1 t	:
* i B&S(etUSB TrucLA	0* 0* 43* 0* 43* t	0* 0* 0* 0* 0* t	g3H* 43* 0* 0* 23* t	0* 43* g00* 0* H&g* t	13 *
F rsRu(asek TrucLA	0 0 1 0 1 t	0 0 0 0 0 t	1 g 0 0 4 t	0 g 0 0 g t	9
* F rsRu(asek TrucLA	0* 0* : 3* 0* : 3* t	0* 0* 0* 0* 0* t	43* 43* 0* 0* 43* t	0* 23* 0* 0* 23* t	43 *
d uA&A	0 0 0 0 0 t	0 0 0 0 0 t	0 0 0 0 0 t	0 0 0 0 0 t	0
* d uA&A	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0*
d R&C(eAyS o yak	0 0 0 0 0 t	0 0 0 0 0 t	0 0 0 0 0 t	0 0 0 0 0 t	0
* d R&C(eAyS o yak	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0*
l ekeArB&SA	t t t t t g	t t t t t 0	t t t t t 0	t t t t t 0	
* l ekeArB&SA	t t t t t g00*	t t t t t t	t t t t t t	t t t t t t	t

N l ekeArB&SAaSk d R&C(eAyS 6 ryA&wa(L3- D- efs, o Do B) C&S, TDFGu, UDUtTurS

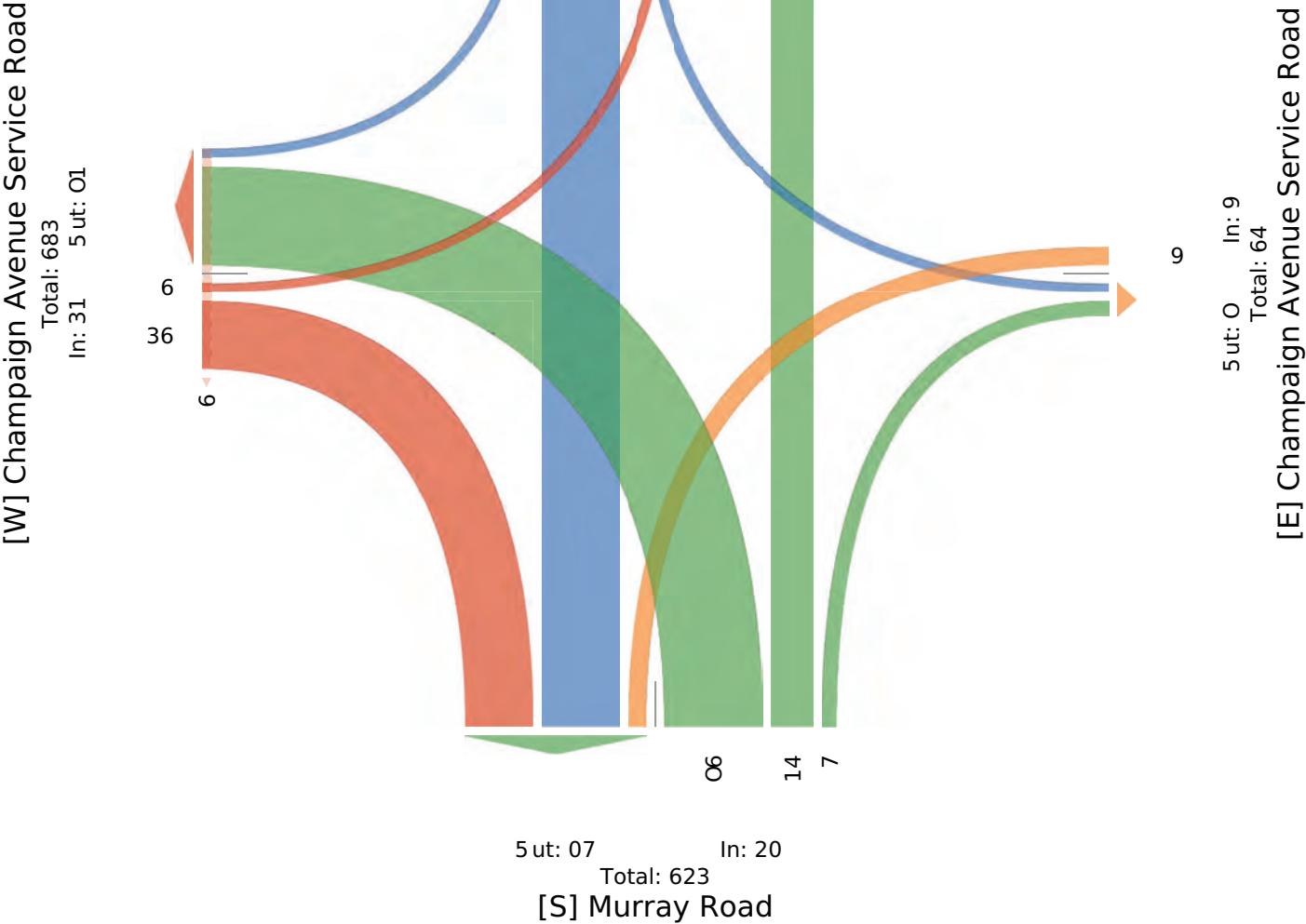
Murray Road with Champaign Avenue Service Ro... - TMC

Tue Mar 4, 2025
AM Peak (70 AM : 77 AM)
A-8-a))e (l GLi), gGs-e:t hC TruSk), Ari(Su-aien TruSk), Uu)e), Pene)irGh),
UScSe) dh Bdan3
A- Mdyeo ehi)
R m72l D517, l dSaiGhm409D. I. I, :. . 9I4I57



Kenig, Lindgren, O'Hara, Aboona, Inc.

PrdyGæn bcnKehG l Gnsreh O'Hara Abddha,
Rs9
15I 5 W9HG(sG) Bn9 guGe 400,
Bd)eo dhi, R , 6007. , t g



Murray Road with Champaign Avenue Service Road - TMC

Tue Mar 4, 2025

MFLV@Uio Iial

6 CS GULUc RkdBJ yBk@RoBT TruvGU 6 rBvu@B TruvGU muL@U nel eUB@U

mFLV@Uio Iial -

6 CMi)eDeoBJ

:1 (h27359h, ci vaB o(40.308787, A8.h7475h



nri) B el bL(KeoBk c B l kreo P @ ara 6 bi i oa, :ov.

9575' . s Bk k B UI l., yuB 400, I i B Di oB:c, H0h8, Ry

cek 1 FrevB o	SdaDWko 6)eoue yer) Fe I i al paUbi uol	SdaDWko 6)eoue yer) Fe I i al ' eUbi uol	MurraL I i al Ei rBbi uol	MurraL I i al yi uBbi uol	
THDe	c T I R 6 VV nel N	c T I R 6 VV nel N	c T I R 6 VV nel N	c T I R 6 VV nel N	oB
2025/03/04 hh(456 M	0 0 5 0 5 0	h9 h 3 0 23 0	h9 7 4 0 30 0	0 hh 0 0 hh 0	H
h2(00nM	0 0 h7 0 h7 h	h9 0 h 0 20 0	h9 8 H 0 33 0	2 h0 0 0 h2 0	82
h2(h5nM	0 2 20 0 22 0	hh h h 0 h3 0	h4 7 2 0 23 0	0 h2 0 0 h2 0	70
h2(30nM	0 0 8 h 9 0	4 2 h 0 7 0	hH 7 h 0 24 0	2 h2 0 0 h4 0	54
Ti B	0 2 50 h 53 h	53 4 H 0 HB 0	HB 29 h3 0 hh0 0	4 45 0 0 49 0	275
* 6 VV avd	0* 3.8* 94.3* h.9* A	A84.h* H3* 9.5* 0* A	AH.8* 2H4* hh.8* 0* A	A8.2* 9h.8* 0* 0* A	A
* Ti B	0* 0.7* h8.2* 0.4* h9.3* A	Ah9.3* h.5* 2.2* 0* 22.9* A	A24.7* h0.5* 4.7* 0* 40.0* A	Ah.5* hH4* 0* 0* h7.8* A	A
ns %	A0.250 0.H25 0.250 0.H02	A0.H07 0.500 0.500 A 0.HB5	A0.895 0.90H 0.542 A 0.833	A0.500 0.938 A A 0.875	A 0.838
c RkdBJ	0 2 45 h 48	A 52 4 5 0 Hh	A Hh 23 h3 0 97	A 4 38 0 0 42	A 248
* c RkdBJ	0* h00* 90.0* h00* 90.H*	A98.h* h00* 83.3* 0* 9H8*	A89.7* 79.3* h00* 0* 88.2*	Ah00* 84.4* 0* 0* 85.7*	A90.2*
yBk@RoB TruvGU	0 0 2 0 2	A h 0 h 0 2	A 2 2 0 0 4	A 0 4 0 0 4	A h2
* yBk@RoB TruvGU	0* 0* 4.0* 0* 3.8*	A h.9* 0* hH7* 0* 3.2*	A 2.9* H9* 0* 0* 3.H*	A 0* 8.9* 0* 0* 8.2*	A 4.4*
6 rBvu@B TruvGU	0 0 3 0 3	A 0 0 0 0 0	A 5 4 0 0 9	A 0 3 0 0 3	A h5
* 6 rBvu@B TruvGU	0* 0* H0* 0* 5.7*	A 0* 0* 0* 0* 0*	A 7.4* h3.8* 0* 0* 8.2*	A 0* H7* 0* 0* Hh*	A 5.5*
muL@U	0 0 0 0 0	A 0 0 0 0 0	A 0 0 0 0 0	A 0 0 0 0 0	A 0
* muL@U	0* 0* 0* 0* 0*	A 0* 0* 0* 0* 0*	A 0* 0* 0* 0* 0*	A 0* 0* 0* 0* 0*	A 0*
mFLV@Uio Iial	0 0 0 0 0	A 0 0 0 0 0	A 0 0 0 0 0	A 0 0 0 0 0	A 0
* mFLV@Uio Iial	0* 0* 0* 0* 0*	A 0* 0* 0* 0* 0*	A 0* 0* 0* 0* 0*	A 0* 0* 0* 0* 0*	A 0*
nel eUB@U	A A A A A h	A A A A A 0	A A A A A 0	A A A A A 0	
* nel eUB@U	A A A A Ah00*	A A A A A	A A A A A	A A A A A	A

N nel eUB@Uaol mFLV@Uio Sri UwaG. c (c efBI (I RkdBJ T(Tdru, R(R A Turo

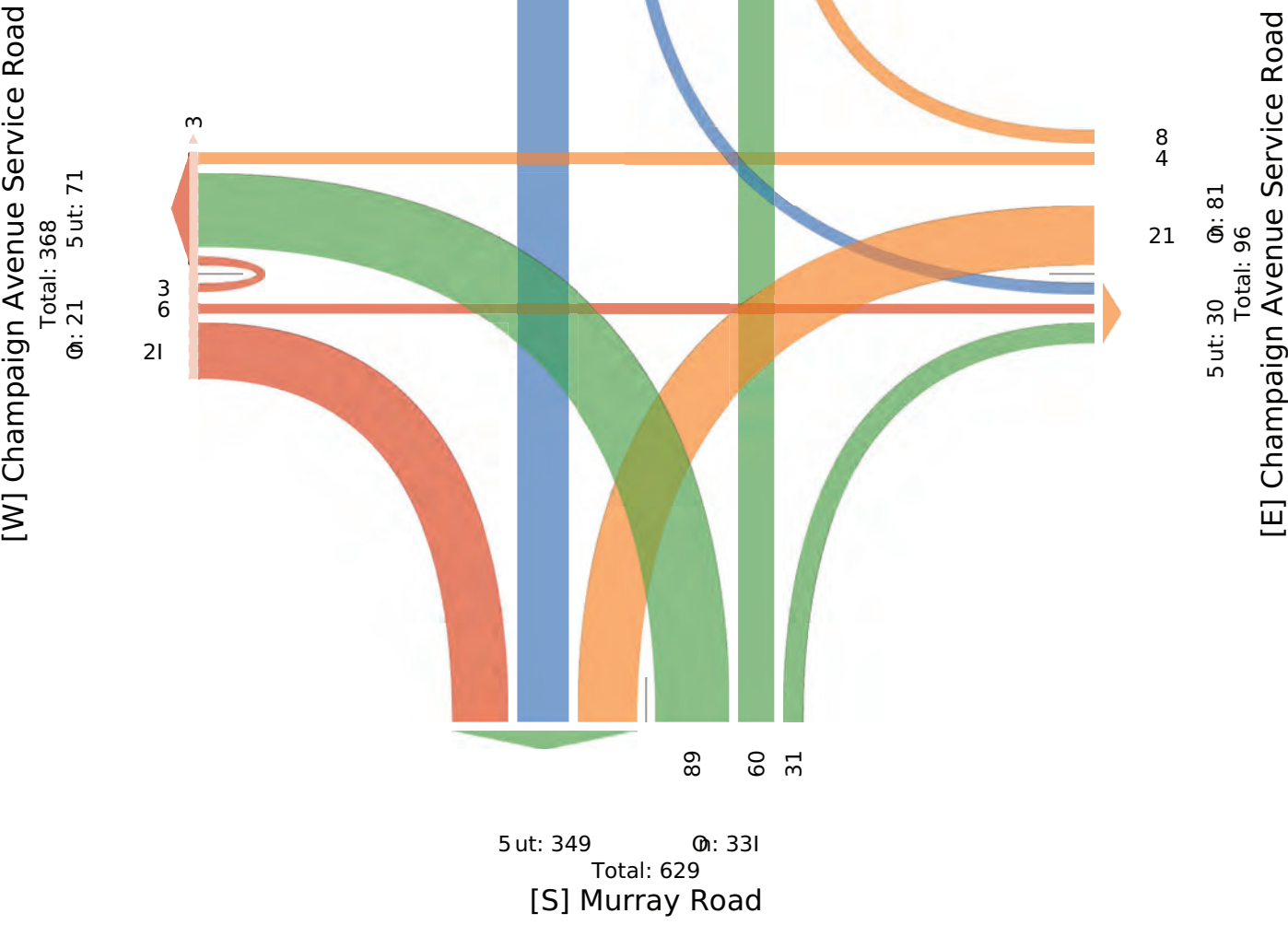
Murray Road with Champaign Avenue Service Ro... - TMC

Tue Mar 4, 2025
MPPak (ea7 :33-45 8 M) 32-45 (Ml) CseraIL(ea7 i gur
8 ILh latt et :S A Ut, d A nle) y B A Truo7t, 8 ro A u l a e P Truo7t, Rutet, (ePet r A B,
R A kolet g B v gaPl
8 ILMgsemeBt
ID- 32195. 3, Sgoac A B- 40B0K1K1,)K1314153



Kenig, Lindgren, O'Hara, Aboona, Inc.

(rgs A eP Ck- ' eBA S A P nreBC H ara 8 OggPa,
IBob
. 515 Wbi A n A v Ph du A e 400,
v gtemgBc, IS, 6003K, y d



Murray Road with Champaign Avenue Service Road - TMC

Tue Mar 4, 2025

FM Feat L2rg0 FM t grg0 FMh

(6A6--e- IP)Csi-, S)Ufetc Uj Trukl -, (ri)ku6aied Trukl -, Bu-e-, Fede-ir)aU-, B)kyk6- oURoadh

(6MovemeU-

IDn: 21g57: , Pokai)oU403g09191, t993 1415:



Frov)ded . yn8 eU)CP)UdGreUb Kora (. ooUa, IUK3

7515 ' 3O)CQ)U Rd3 Su)ie 400,
Ro-emoU, IP, HD0: 9, c S

PeC D)reki)oU	AsamV)CU(veUie Serv)ke Road pa-i. ouUd	AsamV)CU(veUie Serv)ke Road ' e-i. ouUd	Murray Road Eoris. ouUd	Murray Road Souis. ouUd	
T)me	P T R c (VWFedN	P T R c (VWFedN	P T R c (VWFedN	P T R c (VWFedN	IU
2025t0gt04 2rg0FM	0 0 :5 0 :5 0	5 0 0 0 5 :	2g :1 g 0 4g :	: : 0 0 :2 0	15
2n45FM	: 0 :H 0 :1 0	:: 0 0 0 0 :: 0	:4 :: : 0 2H 0	0 9 0 0 9 0	H2
gr00FM	0 0 1 0 1 0	g 0 0 0 0 g 0	22 :2 g 0 g1 0	0 :5 0 0 0 :5 0	H2
gn 5FM	: 0 :4 0 :5 0	H 0 2 0 9 0	:4 :5 4 0 gg 0	0 0 :9 0 0 0 :9 0	14
Toia6	2 0 52 0 54 0	25 0 2 0 21 :	1g 55 :: 0 :g7 :	: 52 0 0 0 5g 0	21g
* (VWoaks	g3* 0* 7H8* 0* t t	723H* 0* 134* 0* t t	5235* g73H* 137* 0* t t	:37* 793* 0* 0* t t	t
* Toia6	031* 0* :730* 0* :730* t	732* 0* 031* 0* 737* t	2H81* 203* 430* 0* 5037* t	034* :730* 0* 0* :734* t	t
FO%03500 t 03: g t 03174 t		035H9 t 03250 t 03H 4 t	0317g 0307 03H9 t 0309 t	03250 03122 t t 031gH t	03: 0
P)Csi-	2 0 4H 0 49 t	24 0 2 0 2H t	1: 47 :: 0 :g: t	: 50 0 0 5: t	25H
* P)Csi-	:00* 0* 9935* 0* 9937* t	7H80* 0* :00* 0* 7H8g* t	713g* 973* :00* 0* 7432* t	:00* 7H82* 0* 0* 7H82* t	7g30*
S)Ufetc Uj Trukl -	0 0 g 0 g t	0 0 0 0 0 0 t	0 2 0 0 2 t	0 : 0 0 0 : t	H
* S)Ufetc Uj Trukl -	0* 0* 530* 0* 53H* t	0* 0* 0* 0* 0* t	0* g3H* 0* 0* :34* t	0* :37* 0* 0* :37* t	232*
(ri)ku6aied Trukl -	0 0 g 0 g t	: 0 0 0 0 : t	2 4 0 0 H t	0 : 0 0 0 : t	::
* (ri)ku6aied Trukl -	0* 0* 530* 0* 53H* t	430* 0* 0* 0* g31* t	231* 13g* 0* 0* 43g* t	0* :37* 0* 0* :37* t	430*
Bu-e-	0 0 0 0 0 t	0 0 0 0 0 0 t	0 0 0 0 0 t	0 0 0 0 0 0 t	0
* Bu-e-	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0*
B)kyk6- oURoad	0 0 0 0 0 t	0 0 0 0 0 0 t	0 0 0 0 0 0 t	0 0 0 0 0 0 t	0
* B)kyk6- oURoad	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0* 0* 0* 0* 0* t	0*
Fede-ir)aU-	t t t t t 0	t t t t t :	t t t t t :	t t t t t t 0	
* Fede-ir)aU-	t t t t t t	t t t t t t:00*	t t t t t t:00*	t t t t t t t	t

N Fede-ir)aU- aUd B)kyk6- oUAro--wa6 3PnPefi, RnR)Csi, TnTsrU, c nc tTurU

Murray Road with Champaign Avenue Service Ro... - TMC

Tue Mar 4, 2025

AM AeaP k2(70 AM : 7(70 AM3

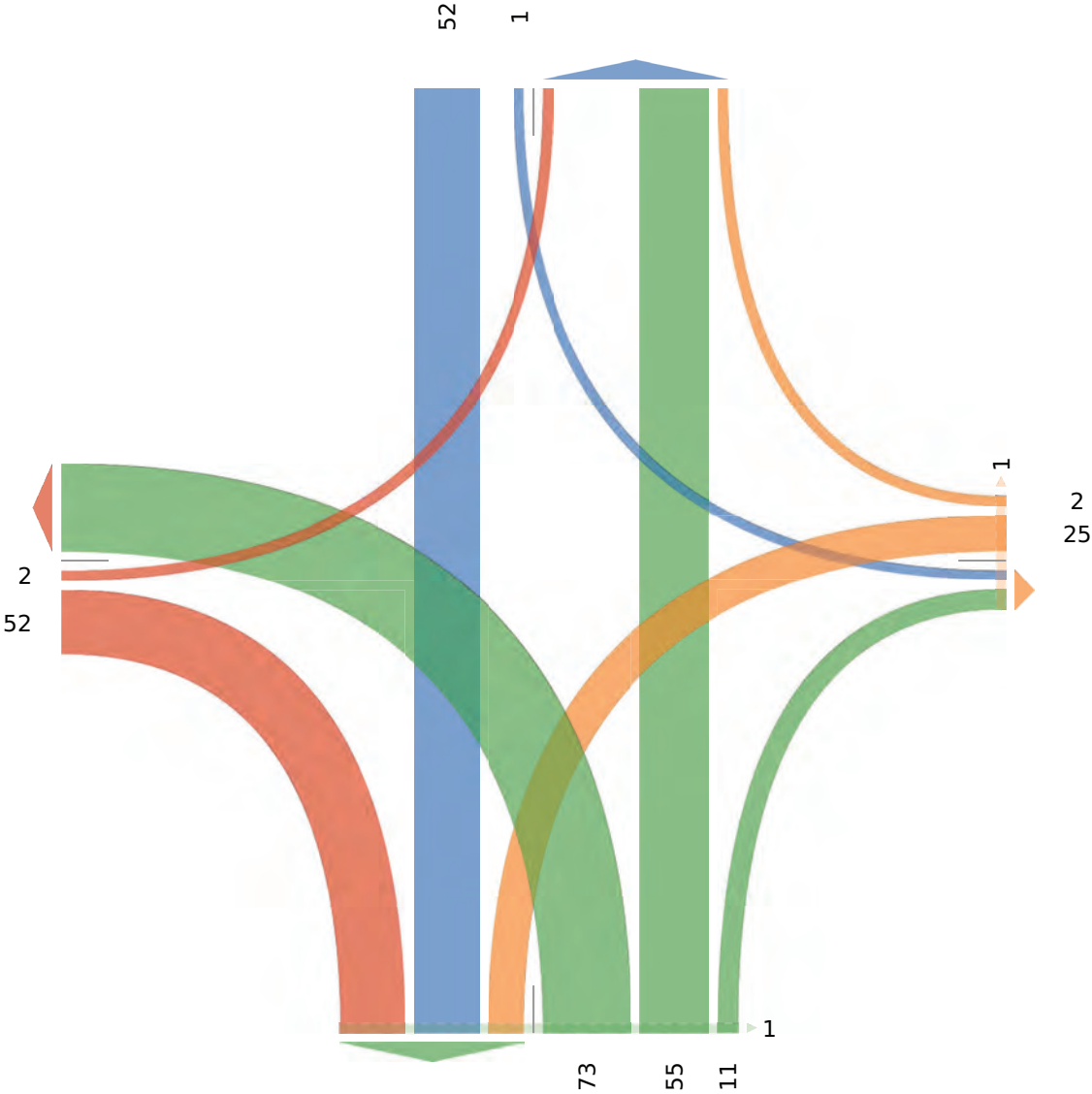
- 8) 8allel kCsLi g, hst L&:S t sgTrunPl, - rgnu8geUTrunPl, c ul el, AeUel gsat l,
c sdn8el Bt y BaU3
- 8MBoeRet g
vm(12D751I, CBnagBt (40970. D D :. . 9 D4D5I



ArBosLeUbd(Ket sL Cst ULret O'Hara - bBB a,
vt n9
15D5 W9HsLLst l y U9 husge 400,
y Bl eRBt g vC, 600I. , Sh

[W] Champaign Avenue Service Road

Total: 127
In: 54 Out: 73



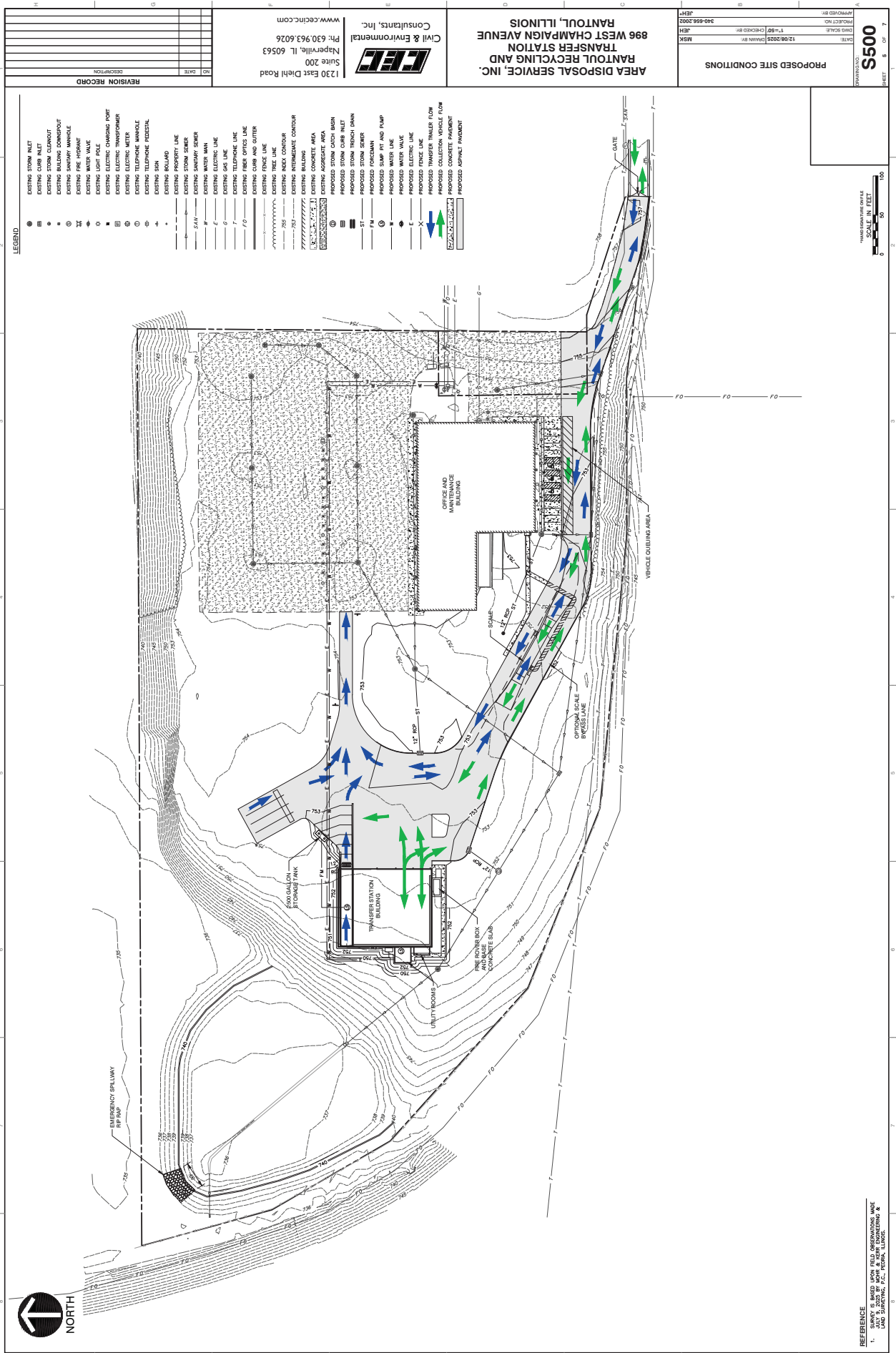
[N] Murray Road
Total: 112
In: 53 Out: 59

[S] Murray Road
Total: 268
Out: 129 In: 139

[E] Champaign Avenue Service Road

Out: 12 In: 27
Total: 39

Site Plan



Proposed Roadway Improvement Plans