

**PRELIMINARY
STORMWATER
MANAGEMENT
MEMO**



PROJECT SITE:

**COSTCO PARKING + FUEL EXPANSION
9915 WEST 159TH STREET
VILLAGE OF ORLAND PARK, COOK COUNTY, ILLINOIS**

PREPARED FOR:

**COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027**

PREPARED BY:

**V3 COMPANIES
7325 JANES AVENUE
WOODRIDGE, ILLINOIS 60517
630.724.9200**

JUNE 18, 2025

V3 COMPANIES PROJECT NO. 04016.08PE

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TR 20



Costco Wholesale Parking + Fuel Expansion PRELIMINARY STORMWATER NARRATIVE

**9915 WEST 159TH STREET
VILLAGE OF ORLAND PARK, COOK COUNTY, ILLINOIS**

PROJECT OVERVIEW

The proposed redevelopment is located on Lots 1 and 2 of the Costco Wholesale development, located at the southwest and southeast corners, respectively, of 159th Street and Ravinia Avenue in the Village of Orland Park, Cook County, Illinois. Lot 2, east of Ravinia, is currently an undeveloped 6.07± acres parcel, and Lot 1 west of Ravinia is 15.60± acres currently occupied by the existing Costco Wholesale warehouse and fuel facility. The Costco Wholesale development and off-site infrastructure improvements, which included the extension of Ravinia Avenue south of 159th Street and construction of the stormwater management basin on Lot 3 south of the warehouse, were originally permitted under MWRD Permit 05-417. The proposed redevelopment involves the demolition of the existing fuel facility northwest of the warehouse and relocating it to Lot 2 across Ravinia. There are also proposed modifications to internal parking areas. Approximately 1.07 acres of existing Ravinia Avenue right-of-way are also anticipated to be disturbed by the removal of existing median islands and pavement for the installation of a proposed roundabout. The demolition of the existing fuel facility and modifications to the parking areas are anticipated to disturb approximately 1.53 acres on Lot 1, and the construction of the proposed gas station on Lot 2 approximately 2.82 acres. The total project redevelopment area, including extents of disturbance on Lots 1 and 2 of the Costco property and within the Village of Orland Park's Ravinia Avenue right-of-way, is anticipated to be 5.42± acres. Approximately 0.30 acres of Lot 2 are to be dedicated as right-of-way for the proposed roundabout.

The Costco property has undergone minor improvements since it was originally developed in 2006 including minor modifications to the ADA parking areas on site. The MWRD Watershed Management Ordinance (WMO) has also been implemented since the original development, and volume control will need to be provided for all areas considered as redevelopment as part of this project in accordance with current MWRD and Orland Park regulations.

PROPOSED STORMWATER MANAGEMENT SYSTEM

Costco is proposing to redevelop 5.42± acres (4.35 acres on Lots 1 and 2 and 1.07 acres of existing Village of Orland Park right-of-way). In addition to the existing detention basin, underground volume control is proposed south of the proposed gas station on Lot 2 and underground volume control storage is proposed in the northwest corner of Lot 1 where the existing gas station is to be replaced with a parking area and west of the proposed roundabout entrance. Volume control storage is not proposed for the Ravinia Avenue roundabout redevelopment since the new right-of-way impervious area of 0.29 acres will be under the minimum required to provide volume control by the WMO (less than one acre). The proposed underground volume control storage will be sized to meet the volume control requirement for the redeveloped areas per current MWRD WMO regulations for volume control.

DETENTION NARRATIVE

Under MWRD Permit 05-417, stormwater detention was provided in the basin constructed south of the warehouse for a developed area of 43.43 acres plus an additional 18.53 acres of undeveloped tributary area, minus 5.26 acres of permitted unrestricted drainage area (See Appendix for Detention exhibit included with original MWRD permit). The pond was originally permitted under both MWRD and the Village of Orland Park stormwater regulations when the property was first developed in 2006. The Orland Park HWL was calculated as 689.00, with a required detention volume of 25.30 ac-ft per Bulletin 70 rainfall data. There was also depressional storage provided within the pond above the high water elevation and in the existing wetland east of Ravinia. Under the 05-417 permit detention was provided for the undeveloped parcels south and east of the warehouse property (including Lot 2 where the gas station is currently proposed) with an assumed overall runoff coefficient of 0.87. The existing present-day storage volume in the basin was verified by a topographic survey by V3 Companies on February 5, 2025. The survey indicated that there is approximately 0.55 ac-ft less volume in the pond than was originally required by Orland Park. There is a separate document, *Pond Volume Analysis*, dated April 7, 2025 that goes into further detail about the existing conditions of the pond. Another separate document, *Costco Wholesale Stormwater Pond Improvements*, dated June 17th, 2025 outlines the proposed improvements to the pond and the suggested maintenance requirements.

Regrading and modification of the existing pond is to be completed as part of the residential development on the property south of the Costco pond. Excavation of sediment from the southeast corner of the basin will be performed by others to restore the required volume resulting in 25.84 ac-ft of volume being provided at the original HWL of 689.00. 0.80 ac-ft of volume control will also be provided adjacent to the pond for the residential development for a total volume of 26.64 ac-ft. Storage volume was originally allocated for the proposed gas station site under the original development, and the basin was designed and constructed to provide storage volume to meet Orland Park requirements, which were in excess of the MWRD required detention volume at the time. See plans and permit information by Cemcon, Ltd. for more information.

Based on the MWRD Schedule D – Legacy permit detention is based on the incremental improvements from the originally required detention. A hydrologic model is not required, however, as requested by the Village a TR-20 model has been included. The model uses Bulletin 75 rainfall data and it shows a high water line at 689.10 for a volume of 26.64 ac-ft. The existing emergency overflow is at an elevation of 689.60, so it provides a freeboard of 0.5-ft above the high water line and a resulting volume of 31.46 ac-ft. The MWRD WMO requires that the emergency overflow be able to pass at least 1 cfs/acre of runoff. The attached overflow calculation shows the overflow can pass at least 62 cfs at an elevation of 690.65, 1.05 feet above the crest of the emergency overflow.

The proposed Costco redevelopment will include volume control as required by current MWRD WMO regulations as well as comply with current Village of Orland Park stormwater regulations. Underground volume control is proposed to be provided by two separate 36" underground arch systems to be connected to existing storm sewers in the northwest corner of Lot 1 and on Lot 2 south of the proposed gas station (See Appendix for preliminary site utility plan). Per MWRD, volume control will be provided for 3.30± acres of impervious area proposed with the Costco site redevelopment and results in 0.284 ac-ft of total required volume control storage. Since this project will follow the Legacy D process, this volume control will be considered as additional storage to the overall detention volume.

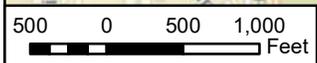
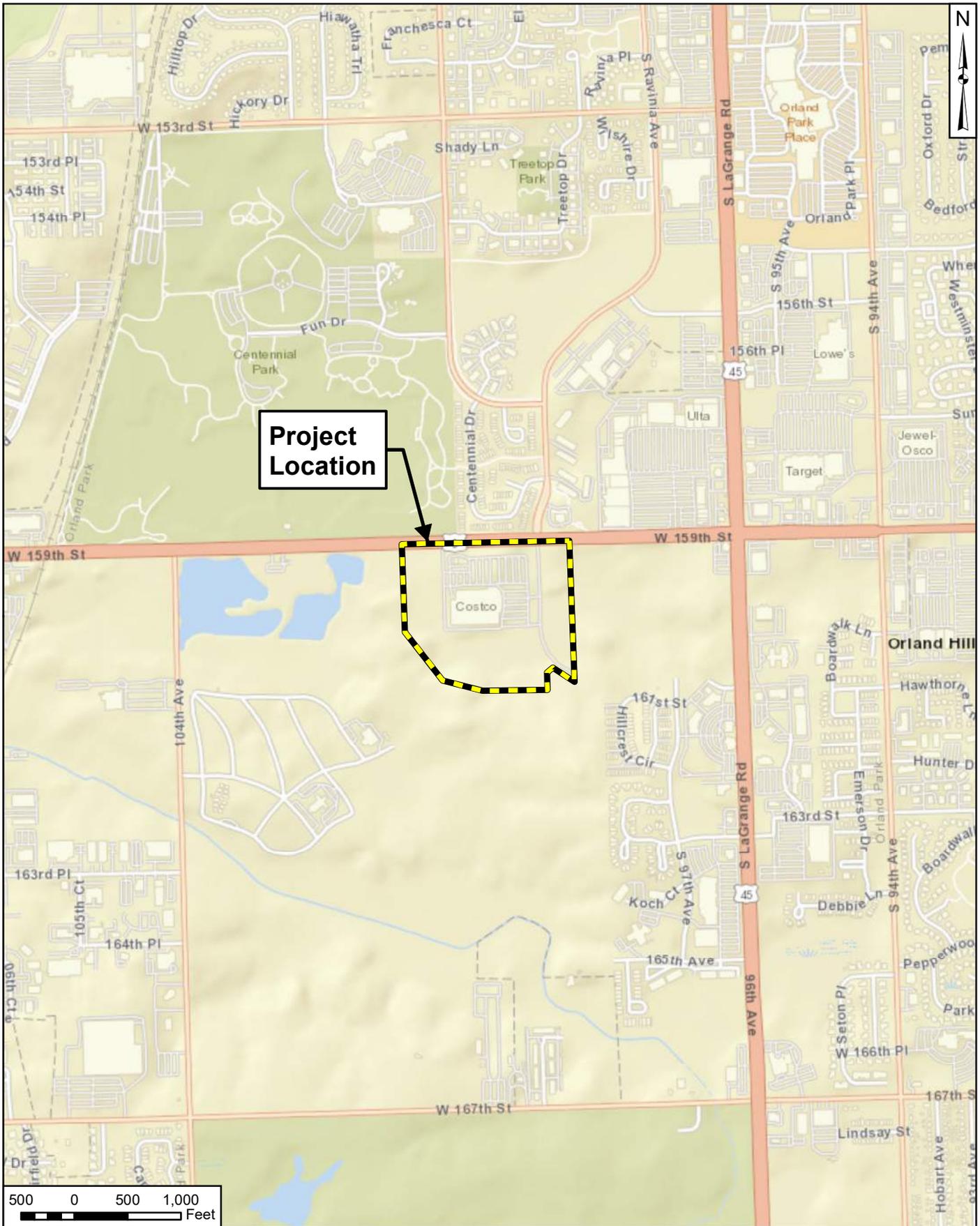
STORM SEWER DESIGN

The existing storm sewer currently serving the Costco warehouse site is to remain. The existing pavement areas and inlets adjacent to proposed redevelopment areas will remain undisturbed, and the proposed redevelopment areas will be graded to drain toward the existing nearby inlets. The Ravinia Avenue roundabout redevelopment area will remain tributary to the existing stormwater basin as under existing conditions. Runoff from Ravinia Avenue will drain to relocated inlets in the roundabout pavement through existing storm sewers and into the pond. The proposed gas station development includes proposed storm sewers which drain into a volume control structure south of the fuel facility, which in turn connects downstream to Ravinia Avenue storm sewers to ultimately drain into the existing basin. Storm sewer conveyance was provided for Lot 2 as part of the original Costco development assuming an eventual developed runoff coefficient of 0.87 and a CN of 92. The proposed storm sewer system is designed to convey runoff from stormwater up to and including the 10-year storm event. Detailed storm sewer calculations and exhibits will be included with final engineering.

CONCLUSION

It is our opinion that the proposed stormwater management design conforms to the requirements of MWRD's Watershed Management Ordinance and Legacy requirements in addition to the Village of Orland Park's stormwater management requirements. The proposed Costco improvements were part of the original design intent, and the overall anticipated impervious area is less than the original design. The expansion and stabilization of the pond will increase the existing volume in the pond and prevent further degradation of the pond slopes. With these considerations, along with the new volume control components, there are no anticipated adverse impacts to the upstream properties. The system will continue to function as in the predeveloped condition with water backing up into the wetland and depressional areas before flowing towards the creek.

APPENDIX A
GENERAL EXHIBITS



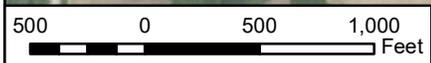

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

TITLE:	PROJECT LOCATION MAP		BASE LAYER:	ESRI World Street Map
SITE:	Costco Wholesale 9915 W 159th St, Orland Park, IL 60467		SCALE:	See Scale Bar
			DATE:	01/30/2025

Visio, Vertere, Virtute...The Vision To Transform with Excellence



Project Location



 <p>7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone www.v3co.com</p>	<p>TITLE: AERIAL MAP</p>	<p>BASE LAYER: Vivid Advanced (2022)</p>
	<p>SITE: Costco Wholesale 9915 W 159th St, Orland Park, IL 60467</p>	<p>SCALE: See Scale Bar</p>

Visio, Vertere, Virtute...The Vision To Transform with Excellence™

APPENDIX B

STORMWATER MANAGEMENT EXHIBITS

*For delineation of
by pass areas
see
USGS map
on calculations*



Engineers 7325 James Avenue, Suite 100
Woodridge, IL 60517
Scientists 630.724.8208 voice
Surveyors 630.724.8202 fax
jbruce@costco.com

ARCHITECT:

MULVANNY / G2 ARCHITECTURE
1110 112 TH AVE. NE, SUITE 500
BELLEVUE, WA, 98004
1 425 463 2000, 1 425 463 2002

MulvannyG2.com

- 9. REVISED PER DOT/MWRD REVIEW 12-19-05
- 8. REVISED PER MWRDGC REVIEW 11-09-05
- 8. REVISED 159TH STREET R.O.W. 10-19-05
- 5. ISSUED FOR BID 09-16-05
- 4. ISSUED FOR BID AND PERMIT 07-07-05
- 2. REVISED PER VILLAGE REVIEW 05-06-05
- 1. REVISED PER VILLAGE REVIEW 03-29-05

PROJECT NUMBER: 04016.04-504
PROJECT MANAGER: MDB
DRAWING DATE: 02-01-05
DRAWING FILENAME: MWRDORLANDH04016.504

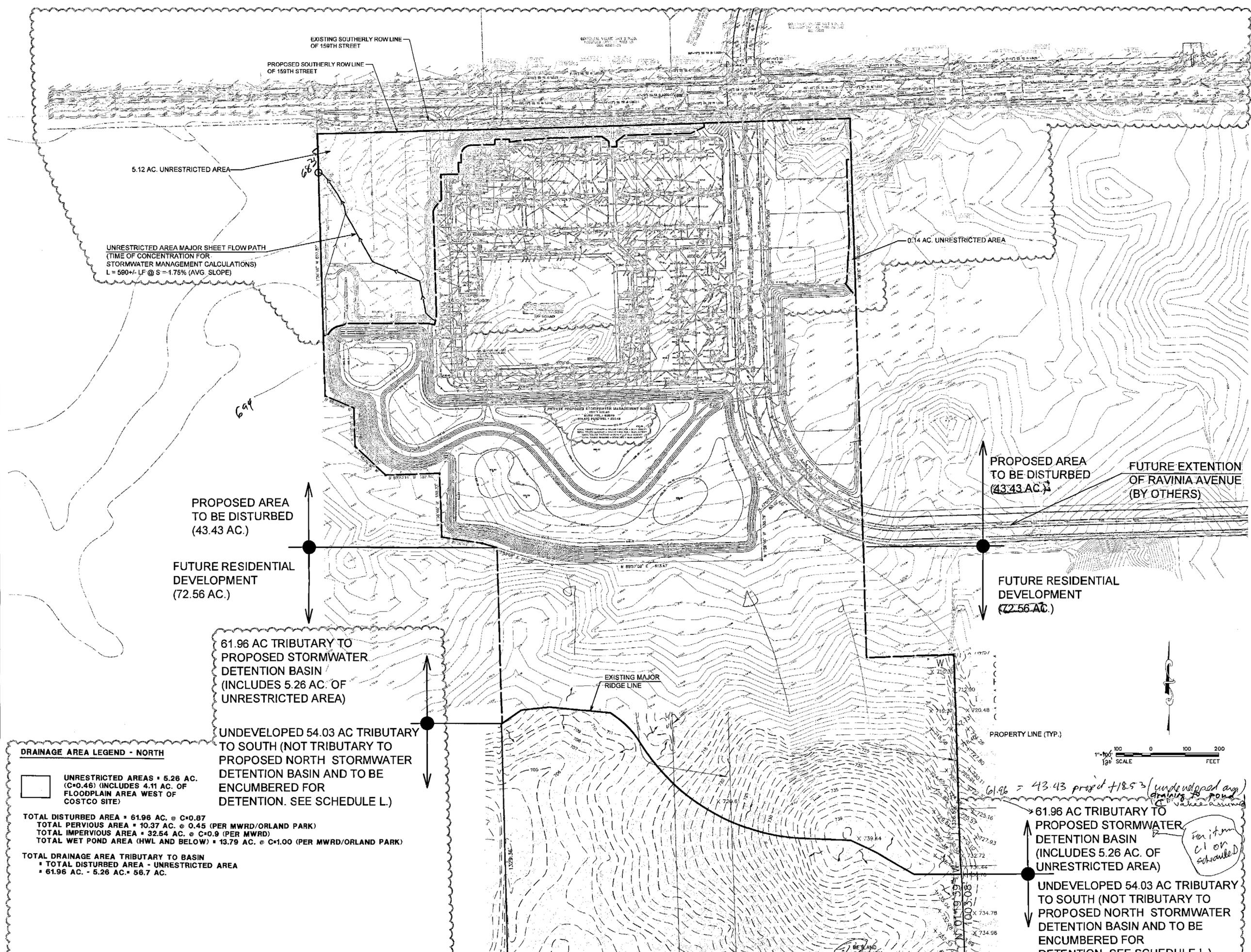
COSTCO
WHOLESALE

ORLAND PARK, ILLINOIS

STORMWATER
DETENTION
EXHIBIT - NORTH

C7.1

04016.04-504 STORMWATER DETENTION EXHIBIT



UNRESTRICTED AREA MAJOR SHEET FLOW PATH
(TIME OF CONCENTRATION FOR
STORMWATER MANAGEMENT CALCULATIONS)
L = 590+/- LF @ S = 1.75% (AVG. SLOPE)

PROPOSED AREA
TO BE DISTURBED
(43.43 AC.)

FUTURE RESIDENTIAL
DEVELOPMENT
(72.56 AC.)

61.96 AC TRIBUTARY TO
PROPOSED STORMWATER
DETENTION BASIN
(INCLUDES 5.26 AC. OF
UNRESTRICTED AREA)

UNDEVELOPED 54.03 AC TRIBUTARY
TO SOUTH (NOT TRIBUTARY TO
PROPOSED NORTH STORMWATER
DETENTION BASIN AND TO BE
ENCUMBERED FOR
DETENTION. SEE SCHEDULE L.)

DRAINAGE AREA LEGEND - NORTH

UNRESTRICTED AREAS = 5.26 AC.
(C=0.46) (INCLUDES 4.11 AC. OF
FLOODPLAIN AREA WEST OF
COSTCO SITE)

TOTAL DISTURBED AREA = 61.96 AC. @ C=0.87
TOTAL PERVIOUS AREA = 10.37 AC. @ 0.45 (PER MWRD/ORLAND PARK)
TOTAL IMPERVIOUS AREA = 32.54 AC. @ C=0.9 (PER MWRD)
TOTAL WET POND AREA (HWL AND BELOW) = 13.79 AC. @ C=1.00 (PER MWRD/ORLAND PARK)

TOTAL DRAINAGE AREA TRIBUTARY TO BASIN
= TOTAL DISTURBED AREA - UNRESTRICTED AREA
= 61.96 AC. - 5.26 AC. = 56.7 AC.

PROPOSED AREA
TO BE DISTURBED
(43.43 AC.)

FUTURE EXTENSION
OF RAVINIA AVENUE
(BY OTHERS)

FUTURE RESIDENTIAL
DEVELOPMENT
(72.56 AC.)

PROPERTY LINE (TYP.)



61.96 AC TRIBUTARY TO
PROPOSED STORMWATER
DETENTION BASIN
(INCLUDES 5.26 AC. OF
UNRESTRICTED AREA)

UNDEVELOPED 54.03 AC TRIBUTARY
TO SOUTH (NOT TRIBUTARY TO
PROPOSED NORTH STORMWATER
DETENTION BASIN AND TO BE
ENCUMBERED FOR
DETENTION. SEE SCHEDULE L.)

*For item
C1 on
Schedule L*

*61.96 = 43.43 prop'd + 18.53 (undeveloped and
drainage pond
at value assumed)*

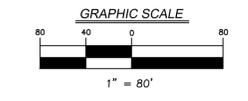


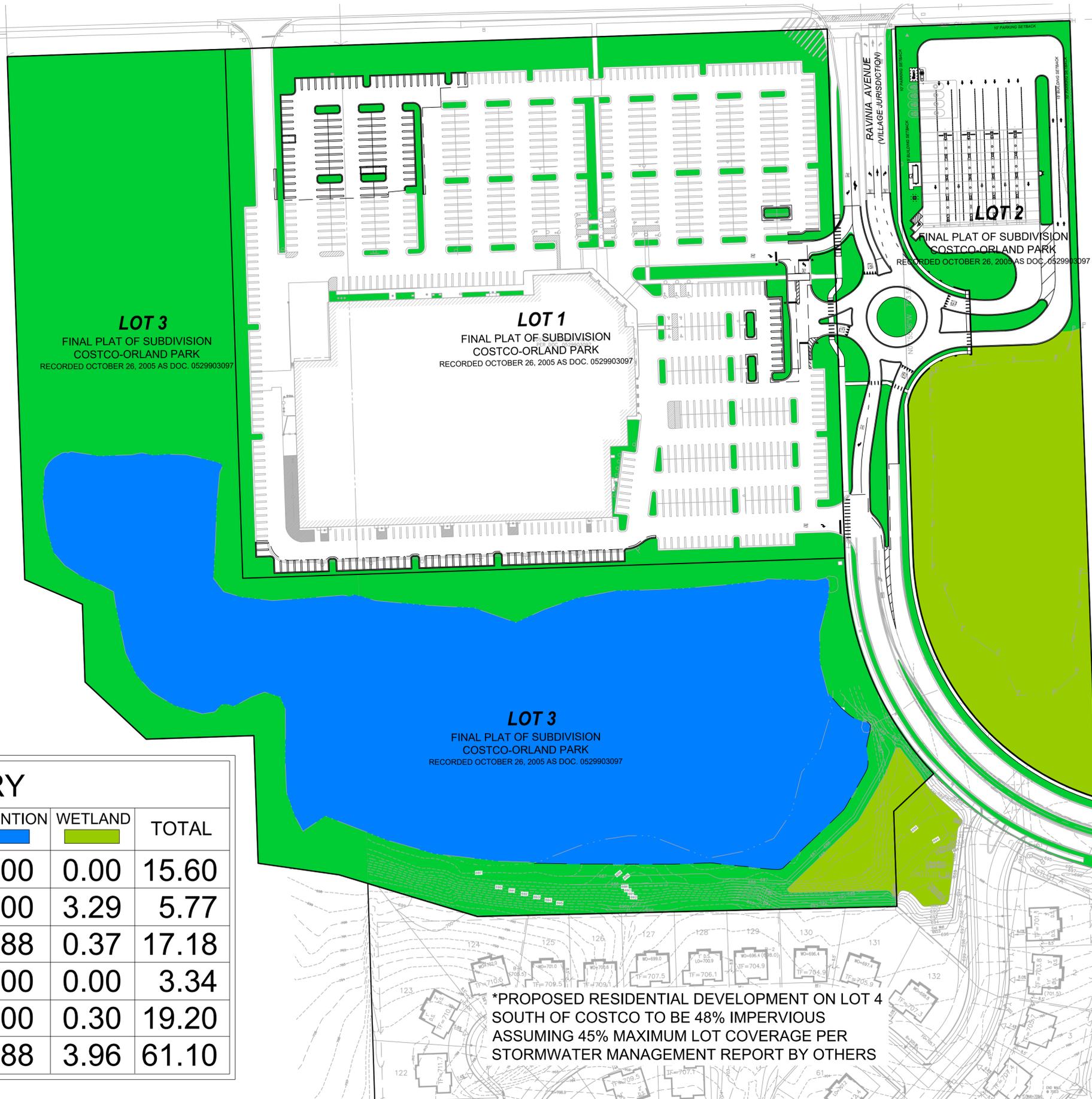
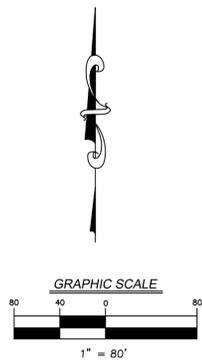
SITE SUMMARY

	PERVIOUS ■	IMPERVIOUS □	DETENTION ■	NATIVE PLANTINGS ■	TOTAL
LOT 1	2.81	12.79	0.00	0.00	15.60
LOT 2	0.41*	2.21	0.00	3.31	5.93
LOT 3	3.76*	0.00	8.32	0.00	12.08
R.O.W.	0.78	2.26	0.00	0.00	3.04
OVERALL	7.76*	17.26	8.32	3.31	36.65

*NOT INCLUDING 5.26 AC UNRESTRICTED DRAINAGE AREA ON COSTCO PROPERTY

EXISTING OVERALL IMPERVIOUS AREA EXHIBIT COSTCO FUEL RELOCATION	ORLAND PARK S03 ILLINOIS	PROJECT NO.: 240757 PROJECT MANAGER: DEF DESIGNED BY: JEM DRAWN BY: JEM
ORIGINAL ISSUE DATE: 12-12-2024		REVISIONS
7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone www.v3co.com		
DRAWING NO.		EXH

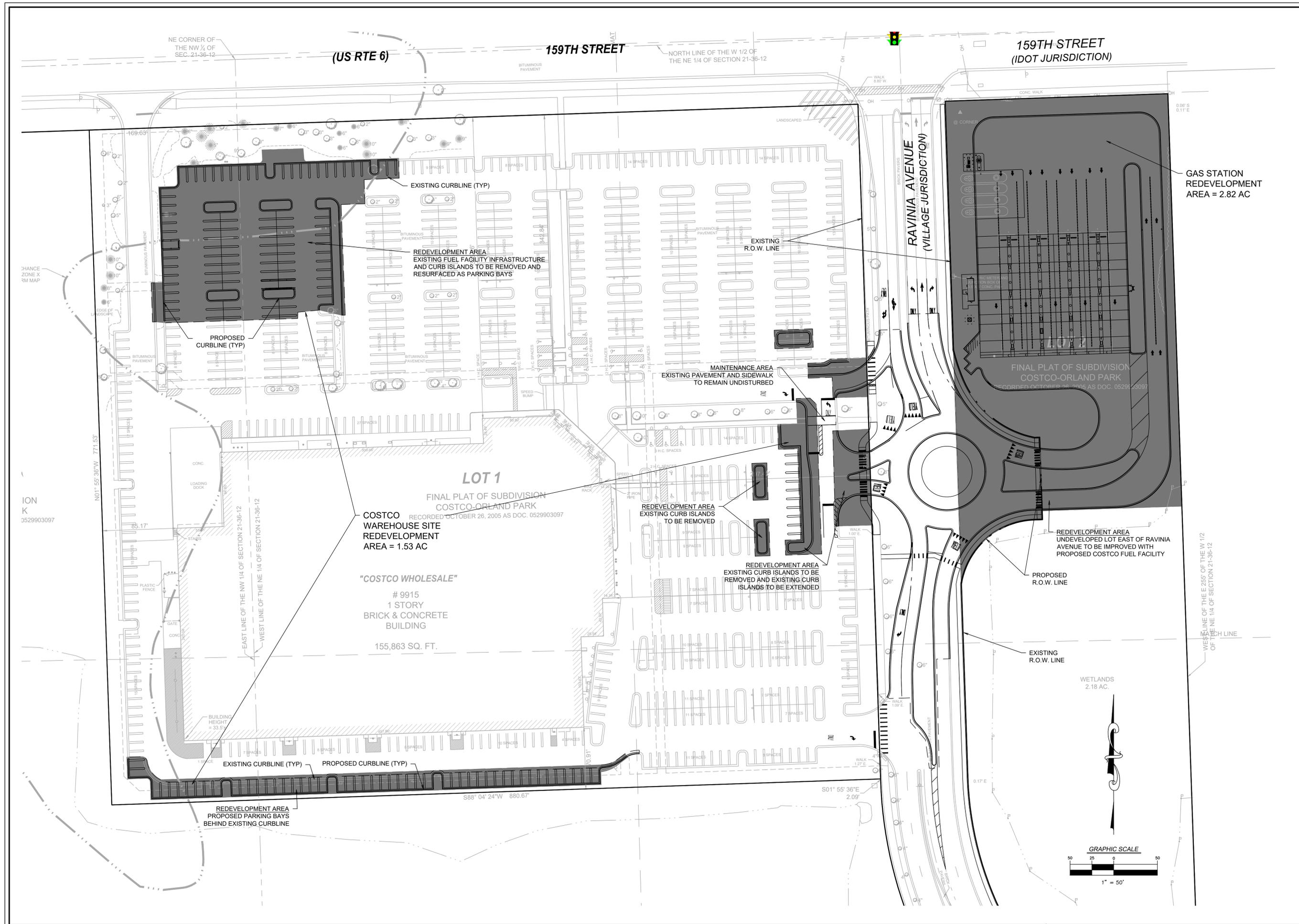




SITE SUMMARY					
	PERVIOUS 	IMPERVIOUS 	DETENTION 	WETLAND 	TOTAL
LOT 1	2.63	12.97	0.00	0.00	15.60
LOT 2	0.71	1.77	0.00	3.29	5.77
LOT 3	7.95	0.00	8.88	0.37	17.18
R.O.W.	0.79	2.55	0.00	0.00	3.34
LOT 4	9.68	9.22	0.00	0.30	19.20
OVERALL	21.76	26.51	8.88	3.96	61.10

*PROPOSED RESIDENTIAL DEVELOPMENT ON LOT 4 SOUTH OF COSTCO TO BE 48% IMPERVIOUS ASSUMING 45% MAXIMUM LOT COVERAGE PER STORMWATER MANAGEMENT REPORT BY OTHERS

PROPOSED OVERALL IMPERVIOUS AREA EXHIBIT COSTCO FUEL RELOCATION ORLAND PARK S03	PROJECT NO.: 04016.08PE PROJECT MANAGER: PM DESIGNED BY: DSBY DRAWN BY: DRBY IL
7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone www.v3co.com	 DRAWING NO. EXH
ORIGINAL ISSUE DATE: 6-7-2025 REVISIONS	
NO. DATE DESCRIPTION	NO. DATE DESCRIPTION



REVISIONS		NO.	DATE	DESCRIPTION

PROJECT NO.:	04016.08PE
PROJECT MANAGER:	DEF
DESIGNED BY:	JEM
DRAWN BY:	JEM

ORIGINAL ISSUE DATE:	02-20-2025
NO.	
DATE	
DESCRIPTION	

REDEVELOPMENT AREA EXHIBIT	ILLINOIS
COSTCO GAS EXPANSION	ORLAND PARK
	S03

7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone www.v3co.com
DRAWING NO.
EXH



100 YEAR PEAK OVERFLOW RATE

PROJECT: Costco Wholesale Orland Park
V3 FILE NO.: 04016.08PE
DATE: 06/20/25
PREPARED BY: JEM
CHECKED BY: DEF

Overflow Elevation	690.65
Overflow Weir Crest	689.60
C=	2.68 (Greenspace)
L=	22 ft
H=	1.05 ft

$Q = C * L * H^{3/2}$
Q= 63.44 cfs

Overflow Capacity > Critical Duration
63.44 cfs > 62 cfs OK



ORLAND PARK, IL
#23-0097

9915 WEST 159TH STREET
ORLAND PARK, ILLINOIS 60462

**COSTCO
WHOLESALE
CORPORATION**

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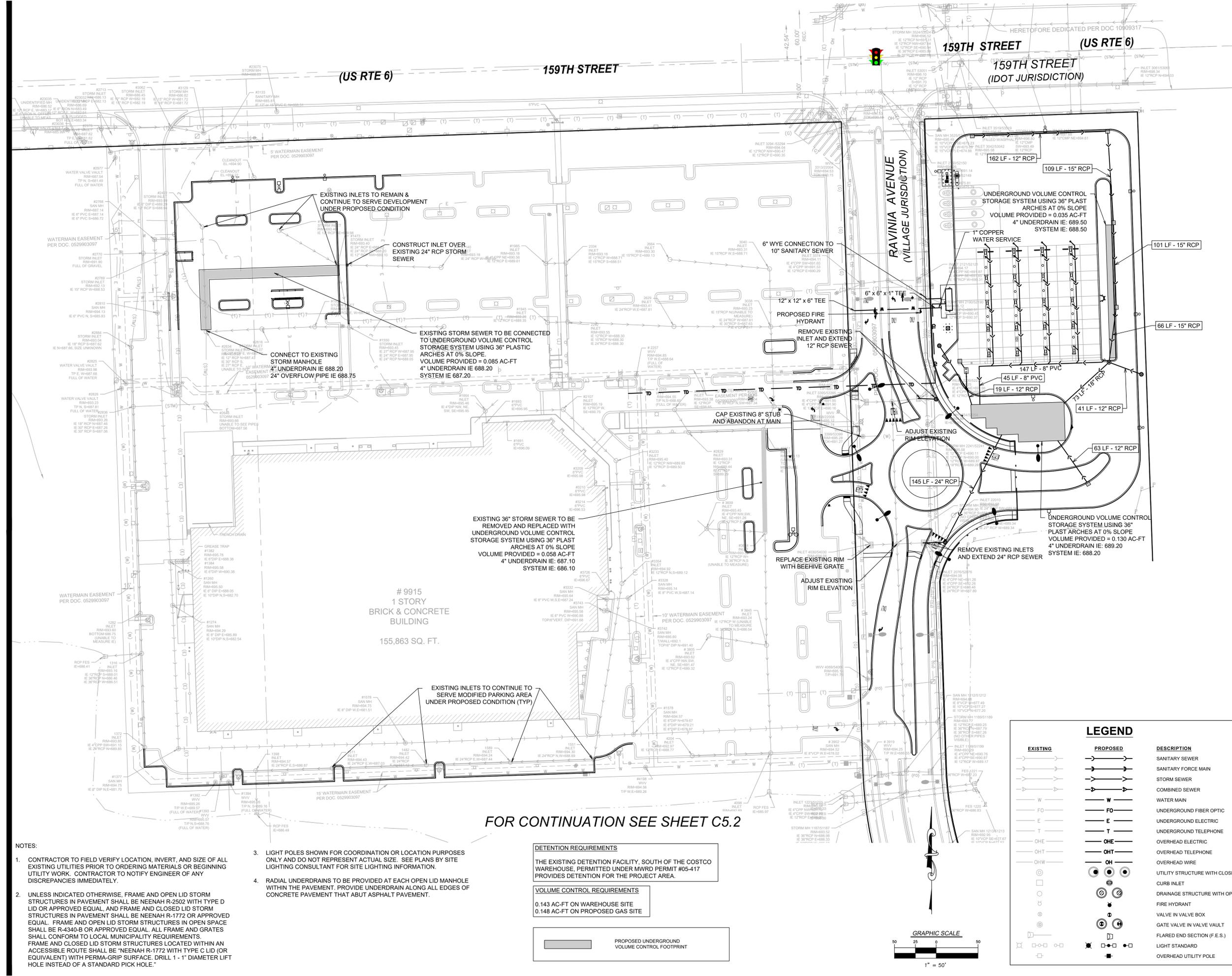
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DATE	DESCRIPTION
04/11/25	ISSUED FOR VILLAGE SUBMITTAL
06/13/25	REVISED PER COMMENTS

PROJECT NUMBER: 04016.08
PM: DEF
DRAWN: RI
DATE: FEBRUARY 3, 2025

**PRELIMINARY
UTILITY PLAN -
NORTH
C5.1**



- NOTES:
- CONTRACTOR TO FIELD VERIFY LOCATION, INVERT, AND SIZE OF ALL EXISTING UTILITIES PRIOR TO ORDERING MATERIALS OR BEGINNING UTILITY WORK. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
 - UNLESS INDICATED OTHERWISE, FRAME AND OPEN LID STORM STRUCTURES IN PAVEMENT SHALL BE NEENAH R-2502 WITH TYPE D LID OR APPROVED EQUAL, AND FRAME AND CLOSED LID STORM STRUCTURES IN PAVEMENT SHALL BE NEENAH R-1772 OR APPROVED EQUAL. FRAME AND OPEN LID STORM STRUCTURES IN OPEN SPACE SHALL BE R-4300-B OR APPROVED EQUAL. ALL FRAME AND GRATES SHALL CONFORM TO LOCAL MUNICIPALITY REQUIREMENTS. FRAME AND CLOSED LID STORM STRUCTURES LOCATED WITHIN AN ACCESSIBLE ROUTE SHALL BE "NEENAH R-1772 WITH TYPE C LID (OR EQUIVALENT) WITH PERMA-GRIP SURFACE, DRILL 1 - 1" DIAMETER LIFT HOLE INSTEAD OF A STANDARD PICK HOLE."
 - LIGHT POLES SHOWN FOR COORDINATION OR LOCATION PURPOSES ONLY AND DO NOT REPRESENT ACTUAL SIZE. SEE PLANS BY SITE LIGHTING CONSULTANT FOR SITE LIGHTING INFORMATION.
 - RADIAL UNDERDRAINS TO BE PROVIDED AT EACH OPEN LID MANHOLE WITHIN THE PAVEMENT. PROVIDE UNDERDRAIN ALONG ALL EDGES OF CONCRETE PAVEMENT THAT ABUT ASPHALT PAVEMENT.

FOR CONTINUATION SEE SHEET C5.2

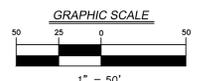
DETENTION REQUIREMENTS
THE EXISTING DETENTION FACILITY, SOUTH OF THE COSTCO WAREHOUSE, PERMITTED UNDER MWRD PERMIT #05-417 PROVIDES DETENTION FOR THE PROJECT AREA.

VOLUME CONTROL REQUIREMENTS
0.143 AC-FT ON WAREHOUSE SITE
0.148 AC-FT ON PROPOSED GAS SITE



LEGEND

EXISTING	PROPOSED	DESCRIPTION
(Symbol)	(Symbol)	SANITARY SEWER
(Symbol)	(Symbol)	SANITARY FORCE MAIN
(Symbol)	(Symbol)	STORM SEWER
(Symbol)	(Symbol)	COMBINED SEWER
(Symbol)	(Symbol)	WATER MAIN
(Symbol)	(Symbol)	UNDERGROUND FIBER OPTIC
(Symbol)	(Symbol)	UNDERGROUND ELECTRIC
(Symbol)	(Symbol)	UNDERGROUND TELEPHONE
(Symbol)	(Symbol)	OVERHEAD ELECTRIC
(Symbol)	(Symbol)	OVERHEAD TELEPHONE
(Symbol)	(Symbol)	OVERHEAD WIRE
(Symbol)	(Symbol)	UTILITY STRUCTURE WITH CLOSED LID
(Symbol)	(Symbol)	CURB INLET
(Symbol)	(Symbol)	DRAINAGE STRUCTURE WITH OPEN LID
(Symbol)	(Symbol)	FIRE HYDRANT
(Symbol)	(Symbol)	VALVE IN VALVE BOX
(Symbol)	(Symbol)	GATE VALVE IN VALVE VAULT
(Symbol)	(Symbol)	FLARED END SECTION (F.E.S.)
(Symbol)	(Symbol)	LIGHT STANDARD
(Symbol)	(Symbol)	OVERHEAD UTILITY POLE



WinTR-20: version 3.20 0 0 0.1 0
0401608PE -- Costco Orland Park -- Bulletin75 NORTHEAST
Proposed Detention Schematic -- 20250613 JEM

SUB-AREA:

001 R_Pond 1 .0872 89. 0.97

STREAM REACH:

R_Pond 1 Outlet Pond 1

STORM ANALYSIS:

100y,1h	4.03	Huff1-1	2	3.34
100y,2h	4.97	Huff1-2	2	3.34
100y,3h	5.49	Huff1-3	2	3.34
100y,6h	6.43	Huff1-6	2	3.34
100y,12h	7.46	Huff2-12	2	3.34
100y,18h	8.06	Huff3-18	2	3.34
100y,24h	8.57	Huff3-24	2	3.34
100y,48h	9.28	Huff4-48	2	3.34

STRUCTURE RATING:

Pond 1	686.37		
686.37	0.	0.	
686.7	0.418	2.77	
687.	.959	5.52	
687.5	2.255	10.32	
688.	2.941	15.28	
688.7	5.955	22.66	
689.	9.387	25.99	
689.5	16.776	31.6	
690.	55.248	37.31	

RAINFALL DISTRIBUTION:

Huff1-5m	0.0034722			
0.0000	0.0836	0.1773	0.2811	0.3833
0.4745	0.5550	0.6225	0.6722	0.7082
0.7417	0.7697	0.7981	0.8255	0.8518
0.8740	0.8947	0.9117	0.9270	0.9403
0.9536	0.9656	0.9774	0.9885	1.0000
Huff1-10m	0.0069444			
0.0000	0.0836	0.1773	0.2811	0.3833
0.4745	0.5550	0.6225	0.6722	0.7082
0.7417	0.7697	0.7981	0.8255	0.8518
0.8740	0.8947	0.9117	0.9270	0.9403
0.9536	0.9656	0.9774	0.9885	1.0000
Huff1-15m	0.01041667			
0.0000	0.0836	0.1773	0.2811	0.3833
0.4745	0.5550	0.6225	0.6722	0.7082
0.7417	0.7697	0.7981	0.8255	0.8518
0.8740	0.8947	0.9117	0.9270	0.9403
0.9536	0.9656	0.9774	0.9885	1.0000
Huff1-30m	0.020833			
0.0000	0.0836	0.1773	0.2811	0.3833
0.4745	0.5550	0.6225	0.6722	0.7082
0.7417	0.7697	0.7981	0.8255	0.8518
0.8740	0.8947	0.9117	0.9270	0.9403
0.9536	0.9656	0.9774	0.9885	1.0000
Huff1-1	0.041667			
0.0000	0.0836	0.1773	0.2811	0.3833
0.4745	0.5550	0.6225	0.6722	0.7082

	0.7417	0.7697	0.7981	0.8255	0.8518
	0.8740	0.8947	0.9117	0.9270	0.9403
	0.9536	0.9656	0.9774	0.9885	1.0000
Huff1-2	0.083333				
	0.0000	0.0836	0.1773	0.2811	0.3833
	0.4745	0.5550	0.6225	0.6722	0.7082
	0.7417	0.7697	0.7981	0.8255	0.8518
	0.8740	0.8947	0.9117	0.9270	0.9403
	0.9536	0.9656	0.9774	0.9885	1.0000
Huff1-3	0.125				
	0.0000	0.0836	0.1773	0.2811	0.3833
	0.4745	0.5550	0.6225	0.6722	0.7082
	0.7417	0.7697	0.7981	0.8255	0.8518
	0.8740	0.8947	0.9117	0.9270	0.9403
	0.9536	0.9656	0.9774	0.9885	1.0000
Huff1-6	0.25				
	0.0000	0.0836	0.1773	0.2811	0.3833
	0.4745	0.5550	0.6225	0.6722	0.7082
	0.7417	0.7697	0.7981	0.8255	0.8518
	0.8740	0.8947	0.9117	0.9270	0.9403
	0.9536	0.9656	0.9774	0.9885	1.0000
Huff2-12	0.5				
	0.0000	0.0229	0.0482	0.0778	0.1133
	0.1579	0.2139	0.2841	0.3644	0.4529
	0.5435	0.6238	0.6976	0.7548	0.8038
	0.8470	0.8781	0.9022	0.9217	0.9381
	0.9529	0.9657	0.9774	0.9884	1.0000
Huff3-18	0.75				
	0.0000	0.0205	0.0431	0.0667	0.0912
	0.1171	0.1436	0.1691	0.1964	0.2278
	0.2633	0.3093	0.3635	0.4392	0.5211
	0.6102	0.6989	0.7819	0.8492	0.8974
	0.9311	0.9534	0.9706	0.9856	1.0000
Huff3-24	1.				
	0.0000	0.0205	0.0431	0.0667	0.0912
	0.1171	0.1436	0.1691	0.1964	0.2278
	0.2633	0.3093	0.3635	0.4392	0.5211
	0.6102	0.6989	0.7819	0.8492	0.8974
	0.9311	0.9534	0.9706	0.9856	1.0000
Huff4-48	2.				
	0.0000	0.0231	0.0479	0.0712	0.0978
	0.1253	0.1523	0.1791	0.2033	0.2283
	0.2541	0.2835	0.3125	0.3390	0.3633
	0.3861	0.4124	0.4508	0.5129	0.5931
	0.6919	0.8005	0.8971	0.9604	1.0000
Huff4-72	3.				
	0.0000	0.0231	0.0479	0.0712	0.0978
	0.1253	0.1523	0.1791	0.2033	0.2283
	0.2541	0.2835	0.3125	0.3390	0.3633
	0.3861	0.4124	0.4508	0.5129	0.5931
	0.6919	0.8005	0.8971	0.9604	1.0000
Huff4-120	5.				
	0.0000	0.0231	0.0479	0.0712	0.0978
	0.1253	0.1523	0.1791	0.2033	0.2283
	0.2541	0.2835	0.3125	0.3390	0.3633
	0.3861	0.4124	0.4508	0.5129	0.5931
	0.6919	0.8005	0.8971	0.9604	1.0000
Huff4-240	10.				
	0.0000	0.0231	0.0479	0.0712	0.0978
	0.1253	0.1523	0.1791	0.2033	0.2283
	0.2541	0.2835	0.3125	0.3390	0.3633
	0.3861	0.4124	0.4508	0.5129	0.5931
	0.6919	0.8005	0.8971	0.9604	1.0000

GLOBAL OUTPUT:

2 0.1 0.5 YN N YY N

0401608PE -- Costco Orland Park -- Bulletin75 NORTHEAST
 Proposed Detention Schematic -- 20250613 JEM

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STORM 100y,1h

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Elevation (ft)	Peak Flow Time (hr)	Peak Flow Rate (cfs)	Rate (csm)
001	0.087	2.851	0.95	151.21	1734.04		
R_Pond 1	0.087	Upstream	2.851	0.95	151.21	1734.04	

Line

Start Time (hr)	Flow (cfs)						
0.0	0.0	67.90	148.93	76.31	21.72	5.78	1.50
3.500	0.20	0.0					

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Elevation (ft)	Peak Flow Time (hr)	Peak Flow Rate (cfs)	Rate (csm)
R_Pond 1	0.087	Downstream	2.708	687.75	2.79	2.60	29.84

Line

Start Time (hr)	Flow (cfs)						
0.500	0.09	1.08	2.30	2.54	2.60	2.60	2.59
4.000	2.58	2.56	2.55	2.53	2.52	2.50	2.49
7.500	2.47	2.46	2.45	2.43	2.42	2.40	2.39
11.000	2.38	2.36	2.35	2.34	2.32	2.31	2.30
14.500	2.28	2.27	2.26	2.24	2.21	2.19	2.16
18.000	2.14	2.11	2.09	2.07	2.04	2.02	2.00
21.500	1.98	1.96	1.93	1.91	1.89	1.87	1.85
25.000	1.83	1.81	1.79	1.77	1.75	1.73	1.71
28.500	1.69	1.67	1.65	1.64	1.62	1.60	1.58
32.000	1.56	1.55	1.53	1.51	1.50	1.48	1.46
35.500	1.45	1.43	1.41	1.40	1.38	1.37	1.35
39.000	1.34	1.32	1.31	1.29	1.28	1.27	1.25
42.500	1.24	1.22	1.21	1.20	1.18	1.17	1.16
46.000	1.14	1.13	1.12	1.11	1.09	1.08	1.07
49.500	1.06	1.05	1.04	1.02	1.01	1.00	0.99
53.000	0.98	0.97	0.96	0.95	0.94	0.93	0.93
56.500	0.92	0.91	0.90	0.90	0.89	0.88	0.88
60.000	0.87	0.86	0.85	0.85	0.84	0.83	0.83
63.500	0.82	0.81	0.81	0.80	0.79	0.79	0.78
67.000	0.78	0.77	0.76	0.76	0.75	0.74	0.74
70.500	0.73	0.73	0.72	0.71	0.71	0.70	0.70
74.000	0.69	0.69	0.68	0.68	0.67	0.66	0.66
77.500	0.65	0.65	0.64	0.64	0.63	0.63	0.62
81.000	0.62	0.61	0.61	0.60	0.60	0.59	0.59
84.500	0.58	0.58	0.57	0.57	0.56	0.56	0.56
88.000	0.55	0.55	0.54	0.54	0.53	0.53	0.52

Line	Flow Values @ time increment of 0.500 hr						
Start Time (hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
91.500	0.52	0.52	0.51	0.51	0.50	0.50	0.50
95.000	0.49	0.49	0.48	0.48	0.48	0.47	0.47
98.500	0.46	0.46	0.46	0.45	0.45	0.45	0.44
102.000	0.44	0.44	0.43	0.43	0.42	0.42	0.42
105.500	0.42	0.41	0.41	0.41	0.41	0.40	0.40
109.000	0.40	0.40	0.39	0.39	0.39	0.39	0.38
112.500	0.38	0.38	0.38	0.37	0.37	0.37	0.37
116.000	0.36	0.36	0.36	0.36	0.36	0.35	0.35
119.500	0.35	0.35	0.34	0.34	0.34	0.34	0.34
123.000	0.33	0.33	0.33	0.33	0.33	0.32	0.32
126.500	0.32	0.32	0.32	0.31	0.31	0.31	0.31
130.000	0.31	0.30	0.30	0.30	0.30	0.30	0.29
133.500	0.29	0.29	0.29	0.29	0.29	0.28	0.28
137.000	0.28	0.28	0.28	0.28	0.27	0.27	0.27
140.500	0.27	0.27	0.27	0.26	0.26	0.26	0.26
144.000	0.26	0.26	0.25	0.25	0.25	0.25	0.25
147.500	0.25	0.24	0.24	0.24	0.24	0.24	0.24
151.000	0.24	0.23	0.23	0.23	0.23	0.23	0.23
154.500	0.23	0.22	0.22	0.22	0.22	0.22	0.22
158.000	0.22	0.21	0.21	0.21	0.21	0.21	0.21
161.500	0.21	0.21	0.20	0.20	0.20	0.20	0.20
165.000	0.20	0.20	0.20	0.19	0.19	0.19	0.19
168.500	0.19	0.19	0.19	0.19	0.18	0.18	0.18
172.000	0.18	0.18	0.18	0.18	0.18	0.18	0.17
175.500	0.17	0.17	0.17	0.17	0.17	0.17	0.17
179.000	0.17	0.17	0.16	0.16	0.16	0.16	0.16
182.500	0.16	0.16	0.16	0.16	0.16	0.15	0.15
186.000	0.15	0.15	0.15	0.15	0.15	0.15	0.15
189.500	0.15	0.14	0.14	0.14	0.14	0.14	0.14
193.000	0.14	0.14	0.14	0.14	0.14	0.14	0.13
196.500	0.13	0.13	0.13	0.13	0.13	0.13	0.13
200.000	0.13	0.13	0.13	0.13	0.12	0.12	0.12
203.500	0.12	0.12	0.12	0.12	0.12	0.12	0.12
207.000	0.12	0.12	0.12	0.11	0.11	0.11	0.11
210.500	0.11	0.11	0.11	0.11	0.11	0.11	0.11
214.000	0.11	0.11	0.11	0.11	0.10	0.10	0.10
217.500	0.10	0.10	0.10	0.10	0.10	0.0	

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Peak Flow Elevation (ft)	Time (hr)	Peak Flow Rate (cfs)	Peak Flow Rate (csm)
OUTLET	0.087		2.708		2.79	2.60	29.84

Line	Flow Values @ time increment of 0.500 hr						
Start Time (hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
0.500	0.09	1.08	2.30	2.54	2.60	2.60	2.59
4.000	2.58	2.56	2.55	2.53	2.52	2.50	2.49
7.500	2.47	2.46	2.45	2.43	2.42	2.40	2.39

Line	Flow Values @ time increment of 0.500 hr						
Start Time (hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
11.000	2.38	2.36	2.35	2.34	2.32	2.31	2.30
14.500	2.28	2.27	2.26	2.24	2.21	2.19	2.16
18.000	2.14	2.11	2.09	2.07	2.04	2.02	2.00
21.500	1.98	1.96	1.93	1.91	1.89	1.87	1.85
25.000	1.83	1.81	1.79	1.77	1.75	1.73	1.71
28.500	1.69	1.67	1.65	1.64	1.62	1.60	1.58
32.000	1.56	1.55	1.53	1.51	1.50	1.48	1.46
35.500	1.45	1.43	1.41	1.40	1.38	1.37	1.35
39.000	1.34	1.32	1.31	1.29	1.28	1.27	1.25
42.500	1.24	1.22	1.21	1.20	1.18	1.17	1.16
46.000	1.14	1.13	1.12	1.11	1.09	1.08	1.07
49.500	1.06	1.05	1.04	1.02	1.01	1.00	0.99
53.000	0.98	0.97	0.96	0.95	0.94	0.93	0.93
56.500	0.92	0.91	0.90	0.90	0.89	0.88	0.88
60.000	0.87	0.86	0.85	0.85	0.84	0.83	0.83
63.500	0.82	0.81	0.81	0.80	0.79	0.79	0.78
67.000	0.78	0.77	0.76	0.76	0.75	0.74	0.74
70.500	0.73	0.73	0.72	0.71	0.71	0.70	0.70
74.000	0.69	0.69	0.68	0.68	0.67	0.66	0.66
77.500	0.65	0.65	0.64	0.64	0.63	0.63	0.62
81.000	0.62	0.61	0.61	0.60	0.60	0.59	0.59
84.500	0.58	0.58	0.57	0.57	0.56	0.56	0.56
88.000	0.55	0.55	0.54	0.54	0.53	0.53	0.52
91.500	0.52	0.52	0.51	0.51	0.50	0.50	0.50
95.000	0.49	0.49	0.48	0.48	0.48	0.47	0.47
98.500	0.46	0.46	0.46	0.45	0.45	0.45	0.44
102.000	0.44	0.44	0.43	0.43	0.42	0.42	0.42
105.500	0.42	0.41	0.41	0.41	0.41	0.40	0.40
109.000	0.40	0.40	0.39	0.39	0.39	0.39	0.38
112.500	0.38	0.38	0.38	0.37	0.37	0.37	0.37
116.000	0.36	0.36	0.36	0.36	0.36	0.35	0.35
119.500	0.35	0.35	0.34	0.34	0.34	0.34	0.34
123.000	0.33	0.33	0.33	0.33	0.33	0.32	0.32
126.500	0.32	0.32	0.32	0.31	0.31	0.31	0.31
130.000	0.31	0.30	0.30	0.30	0.30	0.30	0.29
133.500	0.29	0.29	0.29	0.29	0.29	0.28	0.28
137.000	0.28	0.28	0.28	0.28	0.27	0.27	0.27
140.500	0.27	0.27	0.27	0.26	0.26	0.26	0.26
144.000	0.26	0.26	0.25	0.25	0.25	0.25	0.25
147.500	0.25	0.24	0.24	0.24	0.24	0.24	0.24
151.000	0.24	0.23	0.23	0.23	0.23	0.23	0.23
154.500	0.23	0.22	0.22	0.22	0.22	0.22	0.22
158.000	0.22	0.21	0.21	0.21	0.21	0.21	0.21
161.500	0.21	0.21	0.20	0.20	0.20	0.20	0.20
165.000	0.20	0.20	0.20	0.19	0.19	0.19	0.19
168.500	0.19	0.19	0.19	0.19	0.18	0.18	0.18
172.000	0.18	0.18	0.18	0.18	0.18	0.18	0.17
175.500	0.17	0.17	0.17	0.17	0.17	0.17	0.17
179.000	0.17	0.17	0.16	0.16	0.16	0.16	0.16
182.500	0.16	0.16	0.16	0.16	0.16	0.15	0.15
186.000	0.15	0.15	0.15	0.15	0.15	0.15	0.15

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

189.500	0.15	0.14	0.14	0.14	0.14	0.14	0.14
193.000	0.14	0.14	0.14	0.14	0.14	0.14	0.13
196.500	0.13	0.13	0.13	0.13	0.13	0.13	0.13
200.000	0.13	0.13	0.13	0.13	0.12	0.12	0.12
203.500	0.12	0.12	0.12	0.12	0.12	0.12	0.12
207.000	0.12	0.12	0.12	0.11	0.11	0.11	0.11
210.500	0.11	0.11	0.11	0.11	0.11	0.11	0.11
214.000	0.11	0.11	0.11	0.11	0.10	0.10	0.10
217.500	0.10	0.10	0.10	0.10	0.10	0.0	

STORM 100y,2h

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Peak Flow Elevation (ft)	Time (hr)	Rate (cfs)	Rate (csm)
001	0.087	3.743	1.09	148.82	1706.61		
R_Pond 1	0.087	Upstream	3.743	1.09	148.82	1706.61	

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

0.0	0.0	36.69	146.36	115.11	71.61	36.87	10.73
3.500	2.65	0.61	0.11	0.0			

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Peak Flow Elevation (ft)	Time (hr)	Rate (cfs)	Rate (csm)
R_Pond 1	0.087	Downstream	3.600	688.14	3.42	3.54	40.64

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

0.500	0.0	0.75	2.18	2.73	3.19	3.50	3.54
4.000	3.51	3.45	3.40	3.34	3.28	3.23	3.17
7.500	3.12	3.07	3.02	2.97	2.93	2.92	2.90
11.000	2.88	2.87	2.85	2.83	2.82	2.80	2.79
14.500	2.77	2.75	2.74	2.72	2.71	2.69	2.68
18.000	2.66	2.65	2.63	2.62	2.60	2.59	2.57
21.500	2.56	2.54	2.53	2.51	2.50	2.48	2.47
25.000	2.46	2.44	2.43	2.41	2.40	2.39	2.37
28.500	2.36	2.35	2.33	2.32	2.31	2.29	2.28
32.000	2.27	2.25	2.23	2.20	2.18	2.16	2.13
35.500	2.11	2.09	2.06	2.04	2.02	1.99	1.97
39.000	1.95	1.93	1.91	1.89	1.87	1.84	1.82
42.500	1.80	1.78	1.76	1.74	1.72	1.71	1.69
46.000	1.67	1.65	1.63	1.61	1.60	1.58	1.56
49.500	1.54	1.53	1.51	1.49	1.48	1.46	1.44

Line	Flow Values @ time increment of 0.500 hr						
Start Time (hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
53.000	1.43	1.41	1.40	1.38	1.36	1.35	1.33
56.500	1.32	1.31	1.29	1.28	1.26	1.25	1.23
60.000	1.22	1.21	1.19	1.18	1.17	1.15	1.14
63.500	1.13	1.12	1.10	1.09	1.08	1.07	1.06
67.000	1.04	1.03	1.02	1.01	1.00	0.99	0.98
70.500	0.97	0.96	0.95	0.94	0.93	0.93	0.92
74.000	0.91	0.90	0.90	0.89	0.88	0.87	0.87
77.500	0.86	0.85	0.85	0.84	0.83	0.83	0.82
81.000	0.81	0.81	0.80	0.79	0.79	0.78	0.77
84.500	0.77	0.76	0.76	0.75	0.74	0.74	0.73
88.000	0.73	0.72	0.71	0.71	0.70	0.70	0.69
91.500	0.69	0.68	0.67	0.67	0.66	0.66	0.65
95.000	0.65	0.64	0.64	0.63	0.63	0.62	0.62
98.500	0.61	0.61	0.60	0.60	0.59	0.59	0.58
102.000	0.58	0.57	0.57	0.56	0.56	0.55	0.55
105.500	0.55	0.54	0.54	0.53	0.53	0.52	0.52
109.000	0.52	0.51	0.51	0.50	0.50	0.49	0.49
112.500	0.49	0.48	0.48	0.48	0.47	0.47	0.46
116.000	0.46	0.46	0.45	0.45	0.45	0.44	0.44
119.500	0.43	0.43	0.43	0.42	0.42	0.42	0.41
123.000	0.41	0.41	0.41	0.40	0.40	0.40	0.40
126.500	0.39	0.39	0.39	0.39	0.38	0.38	0.38
130.000	0.38	0.38	0.37	0.37	0.37	0.37	0.36
133.500	0.36	0.36	0.36	0.35	0.35	0.35	0.35
137.000	0.35	0.34	0.34	0.34	0.34	0.34	0.33
140.500	0.33	0.33	0.33	0.33	0.32	0.32	0.32
144.000	0.32	0.32	0.31	0.31	0.31	0.31	0.31
147.500	0.30	0.30	0.30	0.30	0.30	0.29	0.29
151.000	0.29	0.29	0.29	0.29	0.28	0.28	0.28
154.500	0.28	0.28	0.27	0.27	0.27	0.27	0.27
158.000	0.27	0.26	0.26	0.26	0.26	0.26	0.26
161.500	0.26	0.25	0.25	0.25	0.25	0.25	0.25
165.000	0.24	0.24	0.24	0.24	0.24	0.24	0.24
168.500	0.23	0.23	0.23	0.23	0.23	0.23	0.23
172.000	0.22	0.22	0.22	0.22	0.22	0.22	0.22
175.500	0.21	0.21	0.21	0.21	0.21	0.21	0.21
179.000	0.21	0.20	0.20	0.20	0.20	0.20	0.20
182.500	0.20	0.20	0.19	0.19	0.19	0.19	0.19
186.000	0.19	0.19	0.19	0.18	0.18	0.18	0.18
189.500	0.18	0.18	0.18	0.18	0.18	0.17	0.17
193.000	0.17	0.17	0.17	0.17	0.17	0.17	0.17
196.500	0.16	0.16	0.16	0.16	0.16	0.16	0.16
200.000	0.16	0.16	0.16	0.15	0.15	0.15	0.15
203.500	0.15	0.15	0.15	0.15	0.15	0.15	0.15
207.000	0.14	0.14	0.14	0.14	0.14	0.14	0.14
210.500	0.14	0.14	0.14	0.14	0.14	0.13	0.13
214.000	0.13	0.13	0.13	0.13	0.13	0.13	0.13
217.500	0.13	0.13	0.13	0.12	0.12	0.12	0.12
221.000	0.12	0.12	0.12	0.12	0.12	0.12	0.12
224.500	0.12	0.12	0.11	0.11	0.11	0.11	0.11
228.000	0.11	0.11	0.11	0.11	0.11	0.11	0.11

Line
Start Time ----- Flow Values @ time increment of 0.500 hr -----
(hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

231.500	0.11	0.11	0.11	0.10	0.10	0.10	0.10
235.000	0.10	0.10	0.10	0.10	0.0		

Area or Drainage Rain Gage Runoff ----- Peak Flow -----
Reach Area ID or Amount Elevation Time Rate Rate
Identifier (sq mi) Location (in) (ft) (hr) (cfs) (csm)

OUTLET	0.087		3.600		3.42	3.54	40.64
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Line
Start Time ----- Flow Values @ time increment of 0.500 hr -----
(hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

0.500	0.0	0.75	2.18	2.73	3.19	3.50	3.54
4.000	3.51	3.45	3.40	3.34	3.28	3.23	3.17
7.500	3.12	3.07	3.02	2.97	2.93	2.92	2.90
11.000	2.88	2.87	2.85	2.83	2.82	2.80	2.79
14.500	2.77	2.75	2.74	2.72	2.71	2.69	2.68
18.000	2.66	2.65	2.63	2.62	2.60	2.59	2.57
21.500	2.56	2.54	2.53	2.51	2.50	2.48	2.47
25.000	2.46	2.44	2.43	2.41	2.40	2.39	2.37
28.500	2.36	2.35	2.33	2.32	2.31	2.29	2.28
32.000	2.27	2.25	2.23	2.20	2.18	2.16	2.13
35.500	2.11	2.09	2.06	2.04	2.02	1.99	1.97
39.000	1.95	1.93	1.91	1.89	1.87	1.84	1.82
42.500	1.80	1.78	1.76	1.74	1.72	1.71	1.69
46.000	1.67	1.65	1.63	1.61	1.60	1.58	1.56
49.500	1.54	1.53	1.51	1.49	1.48	1.46	1.44
53.000	1.43	1.41	1.40	1.38	1.36	1.35	1.33
56.500	1.32	1.31	1.29	1.28	1.26	1.25	1.23
60.000	1.22	1.21	1.19	1.18	1.17	1.15	1.14
63.500	1.13	1.12	1.10	1.09	1.08	1.07	1.06
67.000	1.04	1.03	1.02	1.01	1.00	0.99	0.98
70.500	0.97	0.96	0.95	0.94	0.93	0.93	0.92
74.000	0.91	0.90	0.90	0.89	0.88	0.87	0.87
77.500	0.86	0.85	0.85	0.84	0.83	0.83	0.82
81.000	0.81	0.81	0.80	0.79	0.79	0.78	0.77
84.500	0.77	0.76	0.76	0.75	0.74	0.74	0.73
88.000	0.73	0.72	0.71	0.71	0.70	0.70	0.69
91.500	0.69	0.68	0.67	0.67	0.66	0.66	0.65
95.000	0.65	0.64	0.64	0.63	0.63	0.62	0.62
98.500	0.61	0.61	0.60	0.60	0.59	0.59	0.58
102.000	0.58	0.57	0.57	0.56	0.56	0.55	0.55
105.500	0.55	0.54	0.54	0.53	0.53	0.52	0.52
109.000	0.52	0.51	0.51	0.50	0.50	0.49	0.49
112.500	0.49	0.48	0.48	0.48	0.47	0.47	0.46
116.000	0.46	0.46	0.45	0.45	0.45	0.44	0.44
119.500	0.43	0.43	0.43	0.42	0.42	0.42	0.41
123.000	0.41	0.41	0.41	0.40	0.40	0.40	0.40
126.500	0.39	0.39	0.39	0.39	0.38	0.38	0.38
130.000	0.38	0.38	0.37	0.37	0.37	0.37	0.36

Line	Flow Values @ time increment of 0.500 hr							
Start Time (hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
133.500	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.35
137.000	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.33
140.500	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32
144.000	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.31
147.500	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29
151.000	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28
154.500	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27
158.000	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26
161.500	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25
165.000	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
168.500	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
172.000	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
175.500	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
179.000	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20
182.500	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19
186.000	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18
189.500	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17
193.000	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
196.500	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
200.000	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15
203.500	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
207.000	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
210.500	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13
214.000	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
217.500	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12
221.000	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
224.500	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11
228.000	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
231.500	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10
235.000	0.10	0.10	0.10	0.10	0.0			

STORM 100y,3h

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Elevation (ft)	Peak Flow Time (hr)	Peak Flow Rate (cfs)	Peak Flow Rate (csm)
001	0.087	4.242		1.23	138.33	1586.36	
R_Pond 1	0.087	Upstream	4.242		1.23	138.33	1586.36

Line	Flow Values @ time increment of 0.500 hr							
Start Time (hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
0.0	0.0	20.05	120.50	124.09	83.56	57.92	38.98	
3.500	22.89	6.66	1.71	0.41	0.0			

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Elevation (ft)	Peak Flow Time (hr)	Peak Flow Rate (cfs)	Peak Flow Rate (csm)
R_Pond 1	0.087	Downstream	4.100	688.33	4.17	4.38	50.22

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

0.500	0.0	0.48	1.76	2.58	3.00	3.75	4.21
4.000	4.37	4.36	4.30	4.23	4.16	4.09	4.03
7.500	3.96	3.89	3.83	3.76	3.70	3.64	3.58
11.000	3.52	3.46	3.40	3.34	3.29	3.23	3.18
14.500	3.13	3.07	3.02	2.97	2.93	2.92	2.90
18.000	2.88	2.87	2.85	2.84	2.82	2.80	2.79
21.500	2.77	2.76	2.74	2.72	2.71	2.69	2.68
25.000	2.66	2.65	2.63	2.62	2.60	2.59	2.57
28.500	2.56	2.54	2.53	2.51	2.50	2.49	2.47
32.000	2.46	2.44	2.43	2.42	2.40	2.39	2.38
35.500	2.36	2.35	2.33	2.32	2.31	2.29	2.28
39.000	2.27	2.26	2.23	2.21	2.18	2.16	2.13
42.500	2.11	2.09	2.06	2.04	2.02	2.00	1.97
46.000	1.95	1.93	1.91	1.89	1.87	1.85	1.83
49.500	1.81	1.79	1.77	1.75	1.73	1.71	1.69
53.000	1.67	1.65	1.63	1.61	1.60	1.58	1.56
56.500	1.54	1.53	1.51	1.49	1.48	1.46	1.44
60.000	1.43	1.41	1.40	1.38	1.37	1.35	1.34
63.500	1.32	1.31	1.29	1.28	1.26	1.25	1.24
67.000	1.22	1.21	1.19	1.18	1.17	1.16	1.14
70.500	1.13	1.12	1.11	1.09	1.08	1.07	1.06
74.000	1.05	1.03	1.02	1.01	1.00	0.99	0.98
77.500	0.97	0.96	0.95	0.94	0.93	0.93	0.92
81.000	0.91	0.90	0.90	0.89	0.88	0.87	0.87
84.500	0.86	0.85	0.85	0.84	0.83	0.83	0.82
88.000	0.81	0.81	0.80	0.79	0.79	0.78	0.77
91.500	0.77	0.76	0.76	0.75	0.74	0.74	0.73
95.000	0.73	0.72	0.71	0.71	0.70	0.70	0.69
98.500	0.69	0.68	0.67	0.67	0.66	0.66	0.65
102.000	0.65	0.64	0.64	0.63	0.63	0.62	0.62
105.500	0.61	0.61	0.60	0.60	0.59	0.59	0.58
109.000	0.58	0.57	0.57	0.56	0.56	0.55	0.55
112.500	0.55	0.54	0.54	0.53	0.53	0.52	0.52
116.000	0.52	0.51	0.51	0.50	0.50	0.50	0.49
119.500	0.49	0.48	0.48	0.48	0.47	0.47	0.46
123.000	0.46	0.46	0.45	0.45	0.45	0.44	0.44
126.500	0.43	0.43	0.43	0.42	0.42	0.42	0.42
130.000	0.41	0.41	0.41	0.40	0.40	0.40	0.40
133.500	0.39	0.39	0.39	0.39	0.39	0.38	0.38
137.000	0.38	0.38	0.37	0.37	0.37	0.37	0.36
140.500	0.36	0.36	0.36	0.36	0.35	0.35	0.35
144.000	0.35	0.34	0.34	0.34	0.34	0.34	0.33
147.500	0.33	0.33	0.33	0.33	0.32	0.32	0.32
151.000	0.32	0.32	0.31	0.31	0.31	0.31	0.31
154.500	0.30	0.30	0.30	0.30	0.30	0.29	0.29

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

158.000	0.29	0.29	0.29	0.29	0.28	0.28	0.28
161.500	0.28	0.28	0.28	0.27	0.27	0.27	0.27
165.000	0.27	0.26	0.26	0.26	0.26	0.26	0.26
168.500	0.26	0.25	0.25	0.25	0.25	0.25	0.25
172.000	0.24	0.24	0.24	0.24	0.24	0.24	0.24
175.500	0.23	0.23	0.23	0.23	0.23	0.23	0.23
179.000	0.22	0.22	0.22	0.22	0.22	0.22	0.22
182.500	0.21	0.21	0.21	0.21	0.21	0.21	0.21
186.000	0.21	0.20	0.20	0.20	0.20	0.20	0.20
189.500	0.20	0.20	0.19	0.19	0.19	0.19	0.19
193.000	0.19	0.19	0.19	0.18	0.18	0.18	0.18
196.500	0.18	0.18	0.18	0.18	0.18	0.17	0.17
200.000	0.17	0.17	0.17	0.17	0.17	0.17	0.17
203.500	0.16	0.16	0.16	0.16	0.16	0.16	0.16
207.000	0.16	0.16	0.16	0.15	0.15	0.15	0.15
210.500	0.15	0.15	0.15	0.15	0.15	0.15	0.15
214.000	0.14	0.14	0.14	0.14	0.14	0.14	0.14
217.500	0.14	0.14	0.14	0.14	0.14	0.13	0.13
221.000	0.13	0.13	0.13	0.13	0.13	0.13	0.13
224.500	0.13	0.13	0.13	0.12	0.12	0.12	0.12
228.000	0.12	0.12	0.12	0.12	0.12	0.12	0.12
231.500	0.12	0.12	0.11	0.11	0.11	0.11	0.11
235.000	0.11	0.11	0.11	0.11	0.11	0.11	0.11
238.500	0.11	0.11	0.11	0.10	0.10	0.10	0.10
242.000	0.10	0.10	0.10	0.10	0.0		

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Runoff Elevation (ft)	Peak Flow Time (hr)	Peak Flow Rate (cfs)	Peak Flow Rate (csm)
OUTLET	0.087		4.100		4.17	4.38	50.22

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

0.500	0.0	0.48	1.76	2.58	3.00	3.75	4.21
4.000	4.37	4.36	4.30	4.23	4.16	4.09	4.03
7.500	3.96	3.89	3.83	3.76	3.70	3.64	3.58
11.000	3.52	3.46	3.40	3.34	3.29	3.23	3.18
14.500	3.13	3.07	3.02	2.97	2.93	2.92	2.90
18.000	2.88	2.87	2.85	2.84	2.82	2.80	2.79
21.500	2.77	2.76	2.74	2.72	2.71	2.69	2.68
25.000	2.66	2.65	2.63	2.62	2.60	2.59	2.57
28.500	2.56	2.54	2.53	2.51	2.50	2.49	2.47
32.000	2.46	2.44	2.43	2.42	2.40	2.39	2.38
35.500	2.36	2.35	2.33	2.32	2.31	2.29	2.28
39.000	2.27	2.26	2.23	2.21	2.18	2.16	2.13
42.500	2.11	2.09	2.06	2.04	2.02	2.00	1.97
46.000	1.95	1.93	1.91	1.89	1.87	1.85	1.83
49.500	1.81	1.79	1.77	1.75	1.73	1.71	1.69

Line	Flow Values @ time increment of 0.500 hr						
Start Time	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
(hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
53.000	1.67	1.65	1.63	1.61	1.60	1.58	1.56
56.500	1.54	1.53	1.51	1.49	1.48	1.46	1.44
60.000	1.43	1.41	1.40	1.38	1.37	1.35	1.34
63.500	1.32	1.31	1.29	1.28	1.26	1.25	1.24
67.000	1.22	1.21	1.19	1.18	1.17	1.16	1.14
70.500	1.13	1.12	1.11	1.09	1.08	1.07	1.06
74.000	1.05	1.03	1.02	1.01	1.00	0.99	0.98
77.500	0.97	0.96	0.95	0.94	0.93	0.93	0.92
81.000	0.91	0.90	0.90	0.89	0.88	0.87	0.87
84.500	0.86	0.85	0.85	0.84	0.83	0.83	0.82
88.000	0.81	0.81	0.80	0.79	0.79	0.78	0.77
91.500	0.77	0.76	0.76	0.75	0.74	0.74	0.73
95.000	0.73	0.72	0.71	0.71	0.70	0.70	0.69
98.500	0.69	0.68	0.67	0.67	0.66	0.66	0.65
102.000	0.65	0.64	0.64	0.63	0.63	0.62	0.62
105.500	0.61	0.61	0.60	0.60	0.59	0.59	0.58
109.000	0.58	0.57	0.57	0.56	0.56	0.55	0.55
112.500	0.55	0.54	0.54	0.53	0.53	0.52	0.52
116.000	0.52	0.51	0.51	0.50	0.50	0.50	0.49
119.500	0.49	0.48	0.48	0.48	0.47	0.47	0.46
123.000	0.46	0.46	0.45	0.45	0.45	0.44	0.44
126.500	0.43	0.43	0.43	0.42	0.42	0.42	0.42
130.000	0.41	0.41	0.41	0.40	0.40	0.40	0.40
133.500	0.39	0.39	0.39	0.39	0.39	0.38	0.38
137.000	0.38	0.38	0.37	0.37	0.37	0.37	0.36
140.500	0.36	0.36	0.36	0.36	0.35	0.35	0.35
144.000	0.35	0.34	0.34	0.34	0.34	0.34	0.33
147.500	0.33	0.33	0.33	0.33	0.32	0.32	0.32
151.000	0.32	0.32	0.31	0.31	0.31	0.31	0.31
154.500	0.30	0.30	0.30	0.30	0.30	0.29	0.29
158.000	0.29	0.29	0.29	0.29	0.28	0.28	0.28
161.500	0.28	0.28	0.28	0.27	0.27	0.27	0.27
165.000	0.27	0.26	0.26	0.26	0.26	0.26	0.26
168.500	0.26	0.25	0.25	0.25	0.25	0.25	0.25
172.000	0.24	0.24	0.24	0.24	0.24	0.24	0.24
175.500	0.23	0.23	0.23	0.23	0.23	0.23	0.23
179.000	0.22	0.22	0.22	0.22	0.22	0.22	0.22
182.500	0.21	0.21	0.21	0.21	0.21	0.21	0.21
186.000	0.21	0.20	0.20	0.20	0.20	0.20	0.20
189.500	0.20	0.20	0.19	0.19	0.19	0.19	0.19
193.000	0.19	0.19	0.19	0.18	0.18	0.18	0.18
196.500	0.18	0.18	0.18	0.18	0.18	0.17	0.17
200.000	0.17	0.17	0.17	0.17	0.17	0.17	0.17
203.500	0.16	0.16	0.16	0.16	0.16	0.16	0.16
207.000	0.16	0.16	0.16	0.15	0.15	0.15	0.15
210.500	0.15	0.15	0.15	0.15	0.15	0.15	0.15
214.000	0.14	0.14	0.14	0.14	0.14	0.14	0.14
217.500	0.14	0.14	0.14	0.14	0.14	0.13	0.13
221.000	0.13	0.13	0.13	0.13	0.13	0.13	0.13
224.500	0.13	0.13	0.13	0.12	0.12	0.12	0.12
228.000	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

231.500	0.12	0.12	0.11	0.11	0.11	0.11	0.11
235.000	0.11	0.11	0.11	0.11	0.11	0.11	0.11
238.500	0.11	0.11	0.11	0.10	0.10	0.10	0.10
242.000	0.10	0.10	0.10	0.10	0.0		

STORM 100y,6h

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Elevation (ft)	Peak Flow Time (hr)	Peak Flow Rate (cfs)	Peak Flow Rate (csm)
001	0.087	5.152		1.77	106.20	1217.90	
R_Pond 1	0.087	Upstream	5.152		1.77	106.20	1217.90

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

0.0	0.0	5.36	55.46	101.02	102.08	76.32	53.23
3.500	42.67	36.79	29.92	23.43	19.46	17.18	11.90
7.000	3.55	0.92	0.23	0.0			

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Elevation (ft)	Peak Flow Time (hr)	Peak Flow Rate (cfs)	Peak Flow Rate (csm)
R_Pond 1	0.087	Downstream	5.010	688.64	6.85	5.69	65.29

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

0.500	0.0	0.17	0.76	1.84	2.55	2.89	3.55
4.000	4.15	4.64	5.01	5.28	5.50	5.66	5.69
7.500	5.62	5.54	5.45	5.36	5.27	5.18	5.09
11.000	5.01	4.92	4.84	4.76	4.68	4.60	4.52
14.500	4.45	4.37	4.30	4.23	4.16	4.09	4.02
18.000	3.95	3.89	3.82	3.76	3.69	3.63	3.57
21.500	3.51	3.45	3.40	3.34	3.28	3.23	3.17
25.000	3.12	3.07	3.02	2.97	2.93	2.92	2.90
28.500	2.88	2.87	2.85	2.83	2.82	2.80	2.79
32.000	2.77	2.75	2.74	2.72	2.71	2.69	2.68
35.500	2.66	2.65	2.63	2.62	2.60	2.59	2.57
39.000	2.56	2.54	2.53	2.51	2.50	2.49	2.47
42.500	2.46	2.44	2.43	2.42	2.40	2.39	2.37
46.000	2.36	2.35	2.33	2.32	2.31	2.29	2.28
49.500	2.27	2.25	2.23	2.21	2.18	2.16	2.13
53.000	2.11	2.09	2.06	2.04	2.02	1.99	1.97
56.500	1.95	1.93	1.91	1.89	1.87	1.84	1.82
60.000	1.80	1.78	1.76	1.74	1.73	1.71	1.69
63.500	1.67	1.65	1.63	1.61	1.60	1.58	1.56

Line	Flow Values @ time increment of 0.500 hr						
Start Time (hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
67.000	1.54	1.53	1.51	1.49	1.48	1.46	1.44
70.500	1.43	1.41	1.40	1.38	1.36	1.35	1.33
74.000	1.32	1.31	1.29	1.28	1.26	1.25	1.23
77.500	1.22	1.21	1.19	1.18	1.17	1.15	1.14
81.000	1.13	1.12	1.10	1.09	1.08	1.07	1.06
84.500	1.04	1.03	1.02	1.01	1.00	0.99	0.98
88.000	0.97	0.96	0.95	0.94	0.93	0.93	0.92
91.500	0.91	0.90	0.90	0.89	0.88	0.87	0.87
95.000	0.86	0.85	0.85	0.84	0.83	0.83	0.82
98.500	0.81	0.81	0.80	0.79	0.79	0.78	0.77
102.000	0.77	0.76	0.76	0.75	0.74	0.74	0.73
105.500	0.73	0.72	0.71	0.71	0.70	0.70	0.69
109.000	0.69	0.68	0.67	0.67	0.66	0.66	0.65
112.500	0.65	0.64	0.64	0.63	0.63	0.62	0.62
116.000	0.61	0.61	0.60	0.60	0.59	0.59	0.58
119.500	0.58	0.57	0.57	0.56	0.56	0.55	0.55
123.000	0.55	0.54	0.54	0.53	0.53	0.52	0.52
126.500	0.52	0.51	0.51	0.50	0.50	0.49	0.49
130.000	0.49	0.48	0.48	0.48	0.47	0.47	0.46
133.500	0.46	0.46	0.45	0.45	0.45	0.44	0.44
137.000	0.43	0.43	0.43	0.42	0.42	0.42	0.41
140.500	0.41	0.41	0.41	0.40	0.40	0.40	0.40
144.000	0.39	0.39	0.39	0.39	0.38	0.38	0.38
147.500	0.38	0.38	0.37	0.37	0.37	0.37	0.36
151.000	0.36	0.36	0.36	0.35	0.35	0.35	0.35
154.500	0.35	0.34	0.34	0.34	0.34	0.34	0.33
158.000	0.33	0.33	0.33	0.33	0.32	0.32	0.32
161.500	0.32	0.32	0.31	0.31	0.31	0.31	0.31
165.000	0.30	0.30	0.30	0.30	0.30	0.29	0.29
168.500	0.29	0.29	0.29	0.29	0.28	0.28	0.28
172.000	0.28	0.28	0.27	0.27	0.27	0.27	0.27
175.500	0.27	0.26	0.26	0.26	0.26	0.26	0.26
179.000	0.26	0.25	0.25	0.25	0.25	0.25	0.25
182.500	0.24	0.24	0.24	0.24	0.24	0.24	0.24
186.000	0.23	0.23	0.23	0.23	0.23	0.23	0.23
189.500	0.22	0.22	0.22	0.22	0.22	0.22	0.22
193.000	0.21	0.21	0.21	0.21	0.21	0.21	0.21
196.500	0.21	0.20	0.20	0.20	0.20	0.20	0.20
200.000	0.20	0.20	0.19	0.19	0.19	0.19	0.19
203.500	0.19	0.19	0.19	0.18	0.18	0.18	0.18
207.000	0.18	0.18	0.18	0.18	0.18	0.17	0.17
210.500	0.17	0.17	0.17	0.17	0.17	0.17	0.17
214.000	0.16	0.16	0.16	0.16	0.16	0.16	0.16
217.500	0.16	0.16	0.16	0.15	0.15	0.15	0.15
221.000	0.15	0.15	0.15	0.15	0.15	0.15	0.15
224.500	0.14	0.14	0.14	0.14	0.14	0.14	0.14
228.000	0.14	0.14	0.14	0.14	0.14	0.13	0.13
231.500	0.13	0.13	0.13	0.13	0.13	0.13	0.13
235.000	0.13	0.13	0.13	0.12	0.12	0.12	0.12
238.500	0.12	0.12	0.12	0.12	0.12	0.12	0.12
242.000	0.12	0.12	0.11	0.11	0.11	0.11	0.11

Line
Start Time ----- Flow Values @ time increment of 0.500 hr -----
(hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

245.500	0.11	0.11	0.11	0.11	0.11	0.11	0.11
249.000	0.11	0.11	0.11	0.10	0.10	0.10	0.10
252.500	0.10	0.10	0.10	0.10	0.0		

Area or Drainage Rain Gage Runoff ----- Peak Flow -----
Reach Area ID or Amount Elevation Time Rate Rate
Identifier (sq mi) Location (in) (ft) (hr) (cfs) (csm)

OUTLET	0.087		5.010		6.85	5.69	65.29
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Line
Start Time ----- Flow Values @ time increment of 0.500 hr -----
(hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

0.500	0.0	0.17	0.76	1.84	2.55	2.89	3.55
4.000	4.15	4.64	5.01	5.28	5.50	5.66	5.69
7.500	5.62	5.54	5.45	5.36	5.27	5.18	5.09
11.000	5.01	4.92	4.84	4.76	4.68	4.60	4.52
14.500	4.45	4.37	4.30	4.23	4.16	4.09	4.02
18.000	3.95	3.89	3.82	3.76	3.69	3.63	3.57
21.500	3.51	3.45	3.40	3.34	3.28	3.23	3.17
25.000	3.12	3.07	3.02	2.97	2.93	2.92	2.90
28.500	2.88	2.87	2.85	2.83	2.82	2.80	2.79
32.000	2.77	2.75	2.74	2.72	2.71	2.69	2.68
35.500	2.66	2.65	2.63	2.62	2.60	2.59	2.57
39.000	2.56	2.54	2.53	2.51	2.50	2.49	2.47
42.500	2.46	2.44	2.43	2.42	2.40	2.39	2.37
46.000	2.36	2.35	2.33	2.32	2.31	2.29	2.28
49.500	2.27	2.25	2.23	2.21	2.18	2.16	2.13
53.000	2.11	2.09	2.06	2.04	2.02	1.99	1.97
56.500	1.95	1.93	1.91	1.89	1.87	1.84	1.82
60.000	1.80	1.78	1.76	1.74	1.73	1.71	1.69
63.500	1.67	1.65	1.63	1.61	1.60	1.58	1.56
67.000	1.54	1.53	1.51	1.49	1.48	1.46	1.44
70.500	1.43	1.41	1.40	1.38	1.36	1.35	1.33
74.000	1.32	1.31	1.29	1.28	1.26	1.25	1.23
77.500	1.22	1.21	1.19	1.18	1.17	1.15	1.14
81.000	1.13	1.12	1.10	1.09	1.08	1.07	1.06
84.500	1.04	1.03	1.02	1.01	1.00	0.99	0.98
88.000	0.97	0.96	0.95	0.94	0.93	0.93	0.92
91.500	0.91	0.90	0.90	0.89	0.88	0.87	0.87
95.000	0.86	0.85	0.85	0.84	0.83	0.83	0.82
98.500	0.81	0.81	0.80	0.79	0.79	0.78	0.77
102.000	0.77	0.76	0.76	0.75	0.74	0.74	0.73
105.500	0.73	0.72	0.71	0.71	0.70	0.70	0.69
109.000	0.69	0.68	0.67	0.67	0.66	0.66	0.65
112.500	0.65	0.64	0.64	0.63	0.63	0.62	0.62
116.000	0.61	0.61	0.60	0.60	0.59	0.59	0.58
119.500	0.58	0.57	0.57	0.56	0.56	0.55	0.55
123.000	0.55	0.54	0.54	0.53	0.53	0.52	0.52
126.500	0.52	0.51	0.51	0.50	0.50	0.49	0.49

Line	Flow Values @ time increment of 0.500 hr							
Start Time	(hr)	(cfs)						
130.000		0.49	0.48	0.48	0.48	0.47	0.47	0.46
133.500		0.46	0.46	0.45	0.45	0.45	0.44	0.44
137.000		0.43	0.43	0.43	0.42	0.42	0.42	0.41
140.500		0.41	0.41	0.41	0.40	0.40	0.40	0.40
144.000		0.39	0.39	0.39	0.39	0.38	0.38	0.38
147.500		0.38	0.38	0.37	0.37	0.37	0.37	0.36
151.000		0.36	0.36	0.36	0.35	0.35	0.35	0.35
154.500		0.35	0.34	0.34	0.34	0.34	0.34	0.33
158.000		0.33	0.33	0.33	0.33	0.32	0.32	0.32
161.500		0.32	0.32	0.31	0.31	0.31	0.31	0.31
165.000		0.30	0.30	0.30	0.30	0.30	0.29	0.29
168.500		0.29	0.29	0.29	0.29	0.28	0.28	0.28
172.000		0.28	0.28	0.27	0.27	0.27	0.27	0.27
175.500		0.27	0.26	0.26	0.26	0.26	0.26	0.26
179.000		0.26	0.25	0.25	0.25	0.25	0.25	0.25
182.500		0.24	0.24	0.24	0.24	0.24	0.24	0.24
186.000		0.23	0.23	0.23	0.23	0.23	0.23	0.23
189.500		0.22	0.22	0.22	0.22	0.22	0.22	0.22
193.000		0.21	0.21	0.21	0.21	0.21	0.21	0.21
196.500		0.21	0.20	0.20	0.20	0.20	0.20	0.20
200.000		0.20	0.20	0.19	0.19	0.19	0.19	0.19
203.500		0.19	0.19	0.19	0.18	0.18	0.18	0.18
207.000		0.18	0.18	0.18	0.18	0.18	0.17	0.17
210.500		0.17	0.17	0.17	0.17	0.17	0.17	0.17
214.000		0.16	0.16	0.16	0.16	0.16	0.16	0.16
217.500		0.16	0.16	0.16	0.15	0.15	0.15	0.15
221.000		0.15	0.15	0.15	0.15	0.15	0.15	0.15
224.500		0.14	0.14	0.14	0.14	0.14	0.14	0.14
228.000		0.14	0.14	0.14	0.14	0.14	0.13	0.13
231.500		0.13	0.13	0.13	0.13	0.13	0.13	0.13
235.000		0.13	0.13	0.13	0.12	0.12	0.12	0.12
238.500		0.12	0.12	0.12	0.12	0.12	0.12	0.12
242.000		0.12	0.12	0.11	0.11	0.11	0.11	0.11
245.500		0.11	0.11	0.11	0.11	0.11	0.11	0.11
249.000		0.11	0.11	0.11	0.10	0.10	0.10	0.10
252.500		0.10	0.10	0.10	0.10	0.0		

STORM 100y,12h

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Elevation (ft)	Peak Flow Time (hr)	Peak Flow Rate (cfs)	Peak Flow Rate (csm)
001	0.087	6.157		5.36	67.84	777.96	
R_Pond 1	0.087	Upstream	6.157		5.36	67.84	777.96

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

1.000	0.0	2.22	7.47	14.58	23.66	34.87	47.01
4.500	57.67	65.56	67.47	63.74	57.00	47.65	40.75
8.000	34.06	26.34	20.55	16.56	13.95	12.18	10.73
11.500	9.76	9.37	6.84	2.06	0.54	0.13	0.0

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Peak Elevation (ft)	Time (hr)	Flow Rate (cfs)	Peak Rate (csm)
R_Pond 1	0.087	Downstream	6.014	688.88	12.40	8.02	91.98

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

2.500	0.04	0.22	0.40	0.72	1.21	1.88	2.43
6.000	2.80	3.49	4.30	4.97	5.51	5.93	6.61
9.500	7.10	7.43	7.67	7.82	7.92	7.99	8.01
13.000	7.85	7.57	7.27	6.97	6.68	6.40	6.13
16.500	5.92	5.83	5.73	5.63	5.54	5.44	5.35
20.000	5.26	5.18	5.09	5.00	4.92	4.84	4.76
23.500	4.68	4.60	4.52	4.45	4.37	4.30	4.23
27.000	4.16	4.09	4.02	3.95	3.89	3.82	3.76
30.500	3.69	3.63	3.57	3.51	3.45	3.39	3.34
34.000	3.28	3.23	3.17	3.12	3.07	3.02	2.97
37.500	2.93	2.92	2.90	2.88	2.87	2.85	2.83
41.000	2.82	2.80	2.79	2.77	2.75	2.74	2.72
44.500	2.71	2.69	2.68	2.66	2.65	2.63	2.62
48.000	2.60	2.59	2.57	2.56	2.54	2.53	2.51
51.500	2.50	2.48	2.47	2.46	2.44	2.43	2.41
55.000	2.40	2.39	2.37	2.36	2.35	2.33	2.32
58.500	2.31	2.29	2.28	2.27	2.25	2.23	2.20
62.000	2.18	2.16	2.13	2.11	2.08	2.06	2.04
65.500	2.02	1.99	1.97	1.95	1.93	1.91	1.89
69.000	1.86	1.84	1.82	1.80	1.78	1.76	1.74
72.500	1.72	1.71	1.69	1.67	1.65	1.63	1.61
76.000	1.60	1.58	1.56	1.54	1.53	1.51	1.49
79.500	1.48	1.46	1.44	1.43	1.41	1.40	1.38
83.000	1.36	1.35	1.33	1.32	1.30	1.29	1.28
86.500	1.26	1.25	1.23	1.22	1.21	1.19	1.18
90.000	1.17	1.15	1.14	1.13	1.12	1.10	1.09
93.500	1.08	1.07	1.06	1.04	1.03	1.02	1.01
97.000	1.00	0.99	0.98	0.97	0.96	0.95	0.94
100.500	0.93	0.93	0.92	0.91	0.90	0.90	0.89
104.000	0.88	0.87	0.87	0.86	0.85	0.85	0.84
107.500	0.83	0.83	0.82	0.81	0.81	0.80	0.79
111.000	0.79	0.78	0.77	0.77	0.76	0.76	0.75
114.500	0.74	0.74	0.73	0.73	0.72	0.71	0.71
118.000	0.70	0.70	0.69	0.68	0.68	0.67	0.67
121.500	0.66	0.66	0.65	0.65	0.64	0.64	0.63
125.000	0.63	0.62	0.62	0.61	0.61	0.60	0.60

Line	Flow Values @ time increment of 0.500 hr							
Start Time	(hr)	(cfs)						
128.500	0.59	0.59	0.58	0.58	0.57	0.57	0.56	
132.000	0.56	0.55	0.55	0.55	0.54	0.54	0.53	
135.500	0.53	0.52	0.52	0.52	0.51	0.51	0.50	
139.000	0.50	0.49	0.49	0.49	0.48	0.48	0.48	
142.500	0.47	0.47	0.46	0.46	0.46	0.45	0.45	
146.000	0.45	0.44	0.44	0.43	0.43	0.43	0.42	
149.500	0.42	0.42	0.41	0.41	0.41	0.41	0.40	
153.000	0.40	0.40	0.40	0.39	0.39	0.39	0.39	
156.500	0.38	0.38	0.38	0.38	0.38	0.37	0.37	
160.000	0.37	0.37	0.36	0.36	0.36	0.36	0.35	
163.500	0.35	0.35	0.35	0.35	0.34	0.34	0.34	
167.000	0.34	0.34	0.33	0.33	0.33	0.33	0.33	
170.500	0.32	0.32	0.32	0.32	0.32	0.31	0.31	
174.000	0.31	0.31	0.31	0.30	0.30	0.30	0.30	
177.500	0.30	0.29	0.29	0.29	0.29	0.29	0.29	
181.000	0.28	0.28	0.28	0.28	0.28	0.27	0.27	
184.500	0.27	0.27	0.27	0.27	0.26	0.26	0.26	
188.000	0.26	0.26	0.26	0.26	0.25	0.25	0.25	
191.500	0.25	0.25	0.25	0.24	0.24	0.24	0.24	
195.000	0.24	0.24	0.24	0.23	0.23	0.23	0.23	
198.500	0.23	0.23	0.23	0.22	0.22	0.22	0.22	
202.000	0.22	0.22	0.22	0.21	0.21	0.21	0.21	
205.500	0.21	0.21	0.21	0.21	0.20	0.20	0.20	
209.000	0.20	0.20	0.20	0.20	0.20	0.19	0.19	
212.500	0.19	0.19	0.19	0.19	0.19	0.19	0.18	
216.000	0.18	0.18	0.18	0.18	0.18	0.18	0.18	
219.500	0.18	0.17	0.17	0.17	0.17	0.17	0.17	
223.000	0.17	0.17	0.17	0.16	0.16	0.16	0.16	
226.500	0.16	0.16	0.16	0.16	0.16	0.16	0.15	
230.000	0.15	0.15	0.15	0.15	0.15	0.15	0.15	
233.500	0.15	0.15	0.15	0.14	0.14	0.14	0.14	
237.000	0.14	0.14	0.14	0.14	0.14	0.14	0.14	
240.500	0.14	0.13	0.13	0.13	0.13	0.13	0.13	
244.000	0.13	0.13	0.13	0.13	0.13	0.13	0.12	
247.500	0.12	0.12	0.12	0.12	0.12	0.12	0.12	
251.000	0.12	0.12	0.12	0.12	0.12	0.11	0.11	
254.500	0.11	0.11	0.11	0.11	0.11	0.11	0.11	
258.000	0.11	0.11	0.11	0.11	0.11	0.11	0.10	
261.500	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
265.000	0.0							

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Runoff Elevation (ft)	Peak Flow Time (hr)	Peak Flow Rate (cfs)	Peak Flow Rate (csm)
OUTLET	0.087		6.014		12.40	8.02	91.98

Line	Flow Values @ time increment of 0.500 hr						
Start Time (hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
2.500	0.04	0.22	0.40	0.72	1.21	1.88	2.43
6.000	2.80	3.49	4.30	4.97	5.51	5.93	6.61
9.500	7.10	7.43	7.67	7.82	7.92	7.99	8.01
13.000	7.85	7.57	7.27	6.97	6.68	6.40	6.13
16.500	5.92	5.83	5.73	5.63	5.54	5.44	5.35
20.000	5.26	5.18	5.09	5.00	4.92	4.84	4.76
23.500	4.68	4.60	4.52	4.45	4.37	4.30	4.23
27.000	4.16	4.09	4.02	3.95	3.89	3.82	3.76
30.500	3.69	3.63	3.57	3.51	3.45	3.39	3.34
34.000	3.28	3.23	3.17	3.12	3.07	3.02	2.97
37.500	2.93	2.92	2.90	2.88	2.87	2.85	2.83
41.000	2.82	2.80	2.79	2.77	2.75	2.74	2.72
44.500	2.71	2.69	2.68	2.66	2.65	2.63	2.62
48.000	2.60	2.59	2.57	2.56	2.54	2.53	2.51
51.500	2.50	2.48	2.47	2.46	2.44	2.43	2.41
55.000	2.40	2.39	2.37	2.36	2.35	2.33	2.32
58.500	2.31	2.29	2.28	2.27	2.25	2.23	2.20
62.000	2.18	2.16	2.13	2.11	2.08	2.06	2.04
65.500	2.02	1.99	1.97	1.95	1.93	1.91	1.89
69.000	1.86	1.84	1.82	1.80	1.78	1.76	1.74
72.500	1.72	1.71	1.69	1.67	1.65	1.63	1.61
76.000	1.60	1.58	1.56	1.54	1.53	1.51	1.49
79.500	1.48	1.46	1.44	1.43	1.41	1.40	1.38
83.000	1.36	1.35	1.33	1.32	1.30	1.29	1.28
86.500	1.26	1.25	1.23	1.22	1.21	1.19	1.18
90.000	1.17	1.15	1.14	1.13	1.12	1.10	1.09
93.500	1.08	1.07	1.06	1.04	1.03	1.02	1.01
97.000	1.00	0.99	0.98	0.97	0.96	0.95	0.94
100.500	0.93	0.93	0.92	0.91	0.90	0.90	0.89
104.000	0.88	0.87	0.87	0.86	0.85	0.85	0.84
107.500	0.83	0.83	0.82	0.81	0.81	0.80	0.79
111.000	0.79	0.78	0.77	0.77	0.76	0.76	0.75
114.500	0.74	0.74	0.73	0.73	0.72	0.71	0.71
118.000	0.70	0.70	0.69	0.68	0.68	0.67	0.67
121.500	0.66	0.66	0.65	0.65	0.64	0.64	0.63
125.000	0.63	0.62	0.62	0.61	0.61	0.60	0.60
128.500	0.59	0.59	0.58	0.58	0.57	0.57	0.56
132.000	0.56	0.55	0.55	0.55	0.54	0.54	0.53
135.500	0.53	0.52	0.52	0.52	0.51	0.51	0.50
139.000	0.50	0.49	0.49	0.49	0.48	0.48	0.48
142.500	0.47	0.47	0.46	0.46	0.46	0.45	0.45
146.000	0.45	0.44	0.44	0.43	0.43	0.43	0.42
149.500	0.42	0.42	0.41	0.41	0.41	0.41	0.40
153.000	0.40	0.40	0.40	0.39	0.39	0.39	0.39
156.500	0.38	0.38	0.38	0.38	0.38	0.37	0.37
160.000	0.37	0.37	0.36	0.36	0.36	0.36	0.35
163.500	0.35	0.35	0.35	0.35	0.34	0.34	0.34
167.000	0.34	0.34	0.33	0.33	0.33	0.33	0.33
170.500	0.32	0.32	0.32	0.32	0.32	0.31	0.31
174.000	0.31	0.31	0.31	0.30	0.30	0.30	0.30
177.500	0.30	0.29	0.29	0.29	0.29	0.29	0.29

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

181.000	0.28	0.28	0.28	0.28	0.28	0.27	0.27
184.500	0.27	0.27	0.27	0.27	0.26	0.26	0.26
188.000	0.26	0.26	0.26	0.26	0.25	0.25	0.25
191.500	0.25	0.25	0.25	0.24	0.24	0.24	0.24
195.000	0.24	0.24	0.24	0.23	0.23	0.23	0.23
198.500	0.23	0.23	0.23	0.22	0.22	0.22	0.22
202.000	0.22	0.22	0.22	0.21	0.21	0.21	0.21
205.500	0.21	0.21	0.21	0.21	0.20	0.20	0.20
209.000	0.20	0.20	0.20	0.20	0.20	0.19	0.19
212.500	0.19	0.19	0.19	0.19	0.19	0.19	0.18
216.000	0.18	0.18	0.18	0.18	0.18	0.18	0.18
219.500	0.18	0.17	0.17	0.17	0.17	0.17	0.17
223.000	0.17	0.17	0.17	0.16	0.16	0.16	0.16
226.500	0.16	0.16	0.16	0.16	0.16	0.16	0.15
230.000	0.15	0.15	0.15	0.15	0.15	0.15	0.15
233.500	0.15	0.15	0.15	0.14	0.14	0.14	0.14
237.000	0.14	0.14	0.14	0.14	0.14	0.14	0.14
240.500	0.14	0.13	0.13	0.13	0.13	0.13	0.13
244.000	0.13	0.13	0.13	0.13	0.13	0.13	0.12
247.500	0.12	0.12	0.12	0.12	0.12	0.12	0.12
251.000	0.12	0.12	0.12	0.12	0.12	0.11	0.11
254.500	0.11	0.11	0.11	0.11	0.11	0.11	0.11
258.000	0.11	0.11	0.11	0.11	0.11	0.11	0.10
261.500	0.10	0.10	0.10	0.10	0.10	0.10	0.10
265.000	0.0						

STORM 100y,18h

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Elevation (ft)	----- Time (hr)	Peak Flow Rate (cfs)	----- Rate (csm)
001	0.087	6.745		12.18	51.21	587.32	
R_Pond 1	0.087	Upstream	6.745		12.18	51.21	587.32

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

1.500	0.09	1.24	3.08	4.91	6.56	8.04	9.28
5.000	10.12	10.68	11.61	12.89	14.53	16.39	19.08
8.500	22.74	26.49	31.92	39.15	43.63	46.99	50.01
12.000	51.09	50.64	48.77	43.64	37.60	30.72	24.28
15.500	19.20	14.79	11.93	10.28	9.27	8.79	6.25
19.000	1.87	0.49	0.12	0.0			

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Elevation (ft)	Peak Flow Time (hr)	Peak Flow Rate (cfs)	Rate (csm)
R_Pond 1	0.087	Downstream	6.601	689.03	17.20	9.76	111.98

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

3.500	0.0	0.12	0.18	0.23	0.30	0.37	0.45
7.000	0.55	0.67	0.81	0.98	1.24	1.55	1.93
10.500	2.31	2.56	2.82	3.38	4.18	4.95	5.64
14.000	6.64	7.78	8.60	9.15	9.49	9.69	9.76
17.500	9.76	9.72	9.62	9.33	8.98	8.62	8.26
21.000	7.92	7.59	7.27	6.97	6.68	6.40	6.13
24.500	5.92	5.82	5.73	5.63	5.54	5.44	5.35
28.000	5.26	5.18	5.09	5.00	4.92	4.84	4.76
31.500	4.68	4.60	4.52	4.45	4.37	4.30	4.23
35.000	4.16	4.09	4.02	3.95	3.88	3.82	3.76
38.500	3.69	3.63	3.57	3.51	3.45	3.39	3.34
42.000	3.28	3.23	3.17	3.12	3.07	3.02	2.97
45.500	2.93	2.92	2.90	2.88	2.87	2.85	2.83
49.000	2.82	2.80	2.79	2.77	2.75	2.74	2.72
52.500	2.71	2.69	2.68	2.66	2.65	2.63	2.62
56.000	2.60	2.59	2.57	2.56	2.54	2.53	2.51
59.500	2.50	2.48	2.47	2.46	2.44	2.43	2.41
63.000	2.40	2.39	2.37	2.36	2.35	2.33	2.32
66.500	2.31	2.29	2.28	2.27	2.25	2.23	2.20
70.000	2.18	2.16	2.13	2.11	2.08	2.06	2.04
73.500	2.02	1.99	1.97	1.95	1.93	1.91	1.89
77.000	1.86	1.84	1.82	1.80	1.78	1.76	1.74
80.500	1.72	1.71	1.69	1.67	1.65	1.63	1.61
84.000	1.60	1.58	1.56	1.54	1.53	1.51	1.49
87.500	1.48	1.46	1.44	1.43	1.41	1.40	1.38
91.000	1.36	1.35	1.33	1.32	1.30	1.29	1.28
94.500	1.26	1.25	1.23	1.22	1.21	1.19	1.18
98.000	1.17	1.15	1.14	1.13	1.12	1.10	1.09
101.500	1.08	1.07	1.06	1.04	1.03	1.02	1.01
105.000	1.00	0.99	0.98	0.97	0.96	0.95	0.94
108.500	0.93	0.93	0.92	0.91	0.90	0.90	0.89
112.000	0.88	0.87	0.87	0.86	0.85	0.85	0.84
115.500	0.83	0.83	0.82	0.81	0.81	0.80	0.79
119.000	0.79	0.78	0.77	0.77	0.76	0.76	0.75
122.500	0.74	0.74	0.73	0.73	0.72	0.71	0.71
126.000	0.70	0.70	0.69	0.68	0.68	0.67	0.67
129.500	0.66	0.66	0.65	0.65	0.64	0.64	0.63
133.000	0.63	0.62	0.62	0.61	0.61	0.60	0.60
136.500	0.59	0.59	0.58	0.58	0.57	0.57	0.56
140.000	0.56	0.55	0.55	0.55	0.54	0.54	0.53
143.500	0.53	0.52	0.52	0.52	0.51	0.51	0.50
147.000	0.50	0.49	0.49	0.49	0.48	0.48	0.48
150.500	0.47	0.47	0.46	0.46	0.46	0.45	0.45
154.000	0.45	0.44	0.44	0.43	0.43	0.43	0.42
157.500	0.42	0.42	0.41	0.41	0.41	0.41	0.40

Line	Flow Values @ time increment of 0.500 hr							
Start Time (hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
161.000	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.39
164.500	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37
168.000	0.37	0.37	0.36	0.36	0.36	0.36	0.35	0.35
171.500	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34
175.000	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.33
178.500	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31
182.000	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30
185.500	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29
189.000	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27
192.500	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26
196.000	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25
199.500	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24
203.000	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23
206.500	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22
210.000	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21
213.500	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20
217.000	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19
220.500	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18
224.000	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
227.500	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17
231.000	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16
234.500	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15
238.000	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
241.500	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14
245.000	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
248.500	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13
252.000	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12
255.500	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
259.000	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11
262.500	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
266.000	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10
269.500	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
273.000	0.0							

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Elevation (ft)	Peak Time (hr)	Flow Rate (cfs)	Peak Rate (csm)
OUTLET	0.087		6.601		17.20	9.76	111.98

Line	Flow Values @ time increment of 0.500 hr							
Start Time (hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
3.500	0.0	0.12	0.18	0.23	0.30	0.37	0.45	
7.000	0.55	0.67	0.81	0.98	1.24	1.55	1.93	
10.500	2.31	2.56	2.82	3.38	4.18	4.95	5.64	
14.000	6.64	7.78	8.60	9.15	9.49	9.69	9.76	
17.500	9.76	9.72	9.62	9.33	8.98	8.62	8.26	
21.000	7.92	7.59	7.27	6.97	6.68	6.40	6.13	
24.500	5.92	5.82	5.73	5.63	5.54	5.44	5.35	

Line	Flow Values @ time increment of 0.500 hr						
Start Time	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
(hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
28.000	5.26	5.18	5.09	5.00	4.92	4.84	4.76
31.500	4.68	4.60	4.52	4.45	4.37	4.30	4.23
35.000	4.16	4.09	4.02	3.95	3.88	3.82	3.76
38.500	3.69	3.63	3.57	3.51	3.45	3.39	3.34
42.000	3.28	3.23	3.17	3.12	3.07	3.02	2.97
45.500	2.93	2.92	2.90	2.88	2.87	2.85	2.83
49.000	2.82	2.80	2.79	2.77	2.75	2.74	2.72
52.500	2.71	2.69	2.68	2.66	2.65	2.63	2.62
56.000	2.60	2.59	2.57	2.56	2.54	2.53	2.51
59.500	2.50	2.48	2.47	2.46	2.44	2.43	2.41
63.000	2.40	2.39	2.37	2.36	2.35	2.33	2.32
66.500	2.31	2.29	2.28	2.27	2.25	2.23	2.20
70.000	2.18	2.16	2.13	2.11	2.08	2.06	2.04
73.500	2.02	1.99	1.97	1.95	1.93	1.91	1.89
77.000	1.86	1.84	1.82	1.80	1.78	1.76	1.74
80.500	1.72	1.71	1.69	1.67	1.65	1.63	1.61
84.000	1.60	1.58	1.56	1.54	1.53	1.51	1.49
87.500	1.48	1.46	1.44	1.43	1.41	1.40	1.38
91.000	1.36	1.35	1.33	1.32	1.30	1.29	1.28
94.500	1.26	1.25	1.23	1.22	1.21	1.19	1.18
98.000	1.17	1.15	1.14	1.13	1.12	1.10	1.09
101.500	1.08	1.07	1.06	1.04	1.03	1.02	1.01
105.000	1.00	0.99	0.98	0.97	0.96	0.95	0.94
108.500	0.93	0.93	0.92	0.91	0.90	0.90	0.89
112.000	0.88	0.87	0.87	0.86	0.85	0.85	0.84
115.500	0.83	0.83	0.82	0.81	0.81	0.80	0.79
119.000	0.79	0.78	0.77	0.77	0.76	0.76	0.75
122.500	0.74	0.74	0.73	0.73	0.72	0.71	0.71
126.000	0.70	0.70	0.69	0.68	0.68	0.67	0.67
129.500	0.66	0.66	0.65	0.65	0.64	0.64	0.63
133.000	0.63	0.62	0.62	0.61	0.61	0.60	0.60
136.500	0.59	0.59	0.58	0.58	0.57	0.57	0.56
140.000	0.56	0.55	0.55	0.55	0.54	0.54	0.53
143.500	0.53	0.52	0.52	0.52	0.51	0.51	0.50
147.000	0.50	0.49	0.49	0.49	0.48	0.48	0.48
150.500	0.47	0.47	0.46	0.46	0.46	0.45	0.45
154.000	0.45	0.44	0.44	0.43	0.43	0.43	0.42
157.500	0.42	0.42	0.41	0.41	0.41	0.41	0.40
161.000	0.40	0.40	0.40	0.39	0.39	0.39	0.39
164.500	0.38	0.38	0.38	0.38	0.38	0.37	0.37
168.000	0.37	0.37	0.36	0.36	0.36	0.36	0.35
171.500	0.35	0.35	0.35	0.35	0.34	0.34	0.34
175.000	0.34	0.34	0.33	0.33	0.33	0.33	0.33
178.500	0.32	0.32	0.32	0.32	0.32	0.31	0.31
182.000	0.31	0.31	0.31	0.30	0.30	0.30	0.30
185.500	0.30	0.29	0.29	0.29	0.29	0.29	0.29
189.000	0.28	0.28	0.28	0.28	0.28	0.27	0.27
192.500	0.27	0.27	0.27	0.27	0.26	0.26	0.26
196.000	0.26	0.26	0.26	0.26	0.25	0.25	0.25
199.500	0.25	0.25	0.25	0.24	0.24	0.24	0.24
203.000	0.24	0.24	0.24	0.23	0.23	0.23	0.23

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

206.500	0.23	0.23	0.23	0.22	0.22	0.22	0.22
210.000	0.22	0.22	0.22	0.21	0.21	0.21	0.21
213.500	0.21	0.21	0.21	0.21	0.20	0.20	0.20
217.000	0.20	0.20	0.20	0.20	0.20	0.19	0.19
220.500	0.19	0.19	0.19	0.19	0.19	0.19	0.18
224.000	0.18	0.18	0.18	0.18	0.18	0.18	0.18
227.500	0.18	0.17	0.17	0.17	0.17	0.17	0.17
231.000	0.17	0.17	0.17	0.16	0.16	0.16	0.16
234.500	0.16	0.16	0.16	0.16	0.16	0.16	0.15
238.000	0.15	0.15	0.15	0.15	0.15	0.15	0.15
241.500	0.15	0.15	0.15	0.14	0.14	0.14	0.14
245.000	0.14	0.14	0.14	0.14	0.14	0.14	0.14
248.500	0.14	0.13	0.13	0.13	0.13	0.13	0.13
252.000	0.13	0.13	0.13	0.13	0.13	0.13	0.12
255.500	0.12	0.12	0.12	0.12	0.12	0.12	0.12
259.000	0.12	0.12	0.12	0.12	0.12	0.11	0.11
262.500	0.11	0.11	0.11	0.11	0.11	0.11	0.11
266.000	0.11	0.11	0.11	0.11	0.11	0.11	0.10
269.500	0.10	0.10	0.10	0.10	0.10	0.10	0.10
273.000	0.0						

STORM 100y,24h

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	----- Elevation (ft)	----- Peak Flow Time (hr)	----- Rate (cfs)	----- Rate (csm)
001	0.087	7.246		16.13	41.18	472.28	
R_Pond 1	0.087	Upstream	7.246		16.13	41.18	472.28

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

1.500	0.0	0.28	1.30	2.55	3.72	4.77	5.73
5.000	6.64	7.39	8.05	8.47	8.70	9.17	9.79
8.500	10.60	11.71	12.69	13.86	15.61	18.19	20.18
12.000	22.48	26.01	31.34	34.06	36.25	38.03	40.14
15.500	40.90	41.16	40.61	39.40	37.05	33.28	29.64
19.000	24.80	21.41	17.54	14.87	11.82	10.22	8.75
22.500	8.01	7.37	7.10	6.90	4.96	1.49	0.39
26.000	0.0						

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	----- Elevation (ft)	----- Peak Flow Time (hr)	----- Rate (cfs)	----- Rate (csm)
R_Pond 1	0.087	Downstream	7.102	689.07	21.40	10.47	120.11

Line	Flow Values @ time increment of 0.500 hr						
Start Time (hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
4.500	0.0	0.13	0.18	0.22	0.27	0.32	0.38
8.000	0.44	0.52	0.60	0.70	0.80	0.91	1.07
11.500	1.27	1.50	1.74	2.05	2.32	2.51	2.71
15.000	2.91	3.49	4.12	4.74	5.33	5.89	6.99
18.500	8.03	8.82	9.43	9.95	10.29	10.44	10.47
22.000	10.41	10.31	10.17	10.01	9.85	9.66	9.33
25.500	8.97	8.61	8.25	7.90	7.57	7.26	6.96
29.000	6.67	6.39	6.12	5.92	5.82	5.72	5.63
32.500	5.53	5.44	5.35	5.26	5.17	5.09	5.00
36.000	4.92	4.83	4.75	4.67	4.60	4.52	4.44
39.500	4.37	4.30	4.22	4.15	4.08	4.02	3.95
43.000	3.88	3.82	3.75	3.69	3.63	3.57	3.51
46.500	3.45	3.39	3.34	3.28	3.22	3.17	3.12
50.000	3.07	3.01	2.96	2.93	2.92	2.90	2.88
53.500	2.87	2.85	2.83	2.82	2.80	2.78	2.77
57.000	2.75	2.74	2.72	2.71	2.69	2.68	2.66
60.500	2.65	2.63	2.62	2.60	2.59	2.57	2.56
64.000	2.54	2.53	2.51	2.50	2.48	2.47	2.46
67.500	2.44	2.43	2.41	2.40	2.39	2.37	2.36
71.000	2.35	2.33	2.32	2.31	2.29	2.28	2.27
74.500	2.25	2.23	2.20	2.18	2.15	2.13	2.11
78.000	2.08	2.06	2.04	2.02	1.99	1.97	1.95
81.500	1.93	1.91	1.88	1.86	1.84	1.82	1.80
85.000	1.78	1.76	1.74	1.72	1.70	1.69	1.67
88.500	1.65	1.63	1.61	1.59	1.58	1.56	1.54
92.000	1.52	1.51	1.49	1.47	1.46	1.44	1.43
95.500	1.41	1.39	1.38	1.36	1.35	1.33	1.32
99.000	1.30	1.29	1.28	1.26	1.25	1.23	1.22
102.500	1.21	1.19	1.18	1.17	1.15	1.14	1.13
106.000	1.12	1.10	1.09	1.08	1.07	1.06	1.04
109.500	1.03	1.02	1.01	1.00	0.99	0.98	0.97
113.000	0.96	0.95	0.94	0.93	0.93	0.92	0.91
116.500	0.90	0.90	0.89	0.88	0.87	0.87	0.86
120.000	0.85	0.85	0.84	0.83	0.83	0.82	0.81
123.500	0.81	0.80	0.79	0.79	0.78	0.77	0.77
127.000	0.76	0.75	0.75	0.74	0.74	0.73	0.72
130.500	0.72	0.71	0.71	0.70	0.70	0.69	0.68
134.000	0.68	0.67	0.67	0.66	0.66	0.65	0.65
137.500	0.64	0.64	0.63	0.63	0.62	0.62	0.61
141.000	0.61	0.60	0.60	0.59	0.59	0.58	0.58
144.500	0.57	0.57	0.56	0.56	0.55	0.55	0.55
148.000	0.54	0.54	0.53	0.53	0.52	0.52	0.52
151.500	0.51	0.51	0.50	0.50	0.49	0.49	0.49
155.000	0.48	0.48	0.47	0.47	0.47	0.46	0.46
158.500	0.46	0.45	0.45	0.45	0.44	0.44	0.43
162.000	0.43	0.43	0.42	0.42	0.42	0.41	0.41
165.500	0.41	0.41	0.40	0.40	0.40	0.40	0.39
169.000	0.39	0.39	0.39	0.38	0.38	0.38	0.38
172.500	0.38	0.37	0.37	0.37	0.37	0.36	0.36
176.000	0.36	0.36	0.35	0.35	0.35	0.35	0.35
179.500	0.34	0.34	0.34	0.34	0.34	0.33	0.33

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

183.000	0.33	0.33	0.33	0.32	0.32	0.32	0.32
186.500	0.32	0.31	0.31	0.31	0.31	0.31	0.30
190.000	0.30	0.30	0.30	0.30	0.29	0.29	0.29
193.500	0.29	0.29	0.29	0.28	0.28	0.28	0.28
197.000	0.28	0.27	0.27	0.27	0.27	0.27	0.27
200.500	0.26	0.26	0.26	0.26	0.26	0.26	0.25
204.000	0.25	0.25	0.25	0.25	0.25	0.25	0.24
207.500	0.24	0.24	0.24	0.24	0.24	0.24	0.23
211.000	0.23	0.23	0.23	0.23	0.23	0.23	0.22
214.500	0.22	0.22	0.22	0.22	0.22	0.22	0.21
218.000	0.21	0.21	0.21	0.21	0.21	0.21	0.20
221.500	0.20	0.20	0.20	0.20	0.20	0.20	0.20
225.000	0.19	0.19	0.19	0.19	0.19	0.19	0.19
228.500	0.19	0.19	0.18	0.18	0.18	0.18	0.18
232.000	0.18	0.18	0.18	0.18	0.17	0.17	0.17
235.500	0.17	0.17	0.17	0.17	0.17	0.17	0.16
239.000	0.16	0.16	0.16	0.16	0.16	0.16	0.16
242.500	0.16	0.16	0.15	0.15	0.15	0.15	0.15
246.000	0.15	0.15	0.15	0.15	0.15	0.15	0.14
249.500	0.14	0.14	0.14	0.14	0.14	0.14	0.14
253.000	0.14	0.14	0.14	0.13	0.13	0.13	0.13
256.500	0.13	0.13	0.13	0.13	0.13	0.13	0.13
260.000	0.13	0.13	0.12	0.12	0.12	0.12	0.12
263.500	0.12	0.12	0.12	0.12	0.12	0.12	0.12
267.000	0.12	0.11	0.11	0.11	0.11	0.11	0.11
270.500	0.11	0.11	0.11	0.11	0.11	0.11	0.11
274.000	0.11	0.11	0.10	0.10	0.10	0.10	0.10
277.500	0.10	0.10	0.10	0.0			

Area or Drainage Rain Gage Runoff ----- Peak Flow -----
 Reach Area ID or Amount Elevation Time Rate Rate
 Identifier (sq mi) Location (in) (ft) (hr) (cfs) (csm)

OUTLET	0.087		7.102		21.40	10.47	120.11
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Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

4.500	0.0	0.13	0.18	0.22	0.27	0.32	0.38
8.000	0.44	0.52	0.60	0.70	0.80	0.91	1.07
11.500	1.27	1.50	1.74	2.05	2.32	2.51	2.71
15.000	2.91	3.49	4.12	4.74	5.33	5.89	6.99
18.500	8.03	8.82	9.43	9.95	10.29	10.44	10.47
22.000	10.41	10.31	10.17	10.01	9.85	9.66	9.33
25.500	8.97	8.61	8.25	7.90	7.57	7.26	6.96
29.000	6.67	6.39	6.12	5.92	5.82	5.72	5.63
32.500	5.53	5.44	5.35	5.26	5.17	5.09	5.00
36.000	4.92	4.83	4.75	4.67	4.60	4.52	4.44
39.500	4.37	4.30	4.22	4.15	4.08	4.02	3.95
43.000	3.88	3.82	3.75	3.69	3.63	3.57	3.51

Line	Flow Values @ time increment of 0.500 hr						
Start Time (hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
46.500	3.45	3.39	3.34	3.28	3.22	3.17	3.12
50.000	3.07	3.01	2.96	2.93	2.92	2.90	2.88
53.500	2.87	2.85	2.83	2.82	2.80	2.78	2.77
57.000	2.75	2.74	2.72	2.71	2.69	2.68	2.66
60.500	2.65	2.63	2.62	2.60	2.59	2.57	2.56
64.000	2.54	2.53	2.51	2.50	2.48	2.47	2.46
67.500	2.44	2.43	2.41	2.40	2.39	2.37	2.36
71.000	2.35	2.33	2.32	2.31	2.29	2.28	2.27
74.500	2.25	2.23	2.20	2.18	2.15	2.13	2.11
78.000	2.08	2.06	2.04	2.02	1.99	1.97	1.95
81.500	1.93	1.91	1.88	1.86	1.84	1.82	1.80
85.000	1.78	1.76	1.74	1.72	1.70	1.69	1.67
88.500	1.65	1.63	1.61	1.59	1.58	1.56	1.54
92.000	1.52	1.51	1.49	1.47	1.46	1.44	1.43
95.500	1.41	1.39	1.38	1.36	1.35	1.33	1.32
99.000	1.30	1.29	1.28	1.26	1.25	1.23	1.22
102.500	1.21	1.19	1.18	1.17	1.15	1.14	1.13
106.000	1.12	1.10	1.09	1.08	1.07	1.06	1.04
109.500	1.03	1.02	1.01	1.00	0.99	0.98	0.97
113.000	0.96	0.95	0.94	0.93	0.93	0.92	0.91
116.500	0.90	0.90	0.89	0.88	0.87	0.87	0.86
120.000	0.85	0.85	0.84	0.83	0.83	0.82	0.81
123.500	0.81	0.80	0.79	0.79	0.78	0.77	0.77
127.000	0.76	0.75	0.75	0.74	0.74	0.73	0.72
130.500	0.72	0.71	0.71	0.70	0.70	0.69	0.68
134.000	0.68	0.67	0.67	0.66	0.66	0.65	0.65
137.500	0.64	0.64	0.63	0.63	0.62	0.62	0.61
141.000	0.61	0.60	0.60	0.59	0.59	0.58	0.58
144.500	0.57	0.57	0.56	0.56	0.55	0.55	0.55
148.000	0.54	0.54	0.53	0.53	0.52	0.52	0.52
151.500	0.51	0.51	0.50	0.50	0.49	0.49	0.49
155.000	0.48	0.48	0.47	0.47	0.47	0.46	0.46
158.500	0.46	0.45	0.45	0.45	0.44	0.44	0.43
162.000	0.43	0.43	0.42	0.42	0.42	0.41	0.41
165.500	0.41	0.41	0.40	0.40	0.40	0.40	0.39
169.000	0.39	0.39	0.39	0.38	0.38	0.38	0.38
172.500	0.38	0.37	0.37	0.37	0.37	0.36	0.36
176.000	0.36	0.36	0.35	0.35	0.35	0.35	0.35
179.500	0.34	0.34	0.34	0.34	0.34	0.33	0.33
183.000	0.33	0.33	0.33	0.32	0.32	0.32	0.32
186.500	0.32	0.31	0.31	0.31	0.31	0.31	0.30
190.000	0.30	0.30	0.30	0.30	0.29	0.29	0.29
193.500	0.29	0.29	0.29	0.28	0.28	0.28	0.28
197.000	0.28	0.27	0.27	0.27	0.27	0.27	0.27
200.500	0.26	0.26	0.26	0.26	0.26	0.26	0.25
204.000	0.25	0.25	0.25	0.25	0.25	0.25	0.24
207.500	0.24	0.24	0.24	0.24	0.24	0.24	0.23
211.000	0.23	0.23	0.23	0.23	0.23	0.23	0.22
214.500	0.22	0.22	0.22	0.22	0.22	0.22	0.21
218.000	0.21	0.21	0.21	0.21	0.21	0.21	0.20
221.500	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

225.000	0.19	0.19	0.19	0.19	0.19	0.19	0.19
228.500	0.19	0.19	0.18	0.18	0.18	0.18	0.18
232.000	0.18	0.18	0.18	0.18	0.17	0.17	0.17
235.500	0.17	0.17	0.17	0.17	0.17	0.17	0.16
239.000	0.16	0.16	0.16	0.16	0.16	0.16	0.16
242.500	0.16	0.16	0.15	0.15	0.15	0.15	0.15
246.000	0.15	0.15	0.15	0.15	0.15	0.15	0.14
249.500	0.14	0.14	0.14	0.14	0.14	0.14	0.14
253.000	0.14	0.14	0.14	0.13	0.13	0.13	0.13
256.500	0.13	0.13	0.13	0.13	0.13	0.13	0.13
260.000	0.13	0.13	0.12	0.12	0.12	0.12	0.12
263.500	0.12	0.12	0.12	0.12	0.12	0.12	0.12
267.000	0.12	0.11	0.11	0.11	0.11	0.11	0.11
270.500	0.11	0.11	0.11	0.11	0.11	0.11	0.11
274.000	0.11	0.11	0.10	0.10	0.10	0.10	0.10
277.500	0.10	0.10	0.10	0.0			

STORM 100y,48h

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Elevation (ft)	Peak Flow Time (hr)	Peak Flow Rate (cfs)	Peak Flow Rate (csm)
001	0.087	7.945		42.05	27.65	317.10	
R_Pond 1	0.087	Upstream	7.945		42.05	27.65	317.10

Line
 Start Time ----- Flow Values @ time increment of 0.500 hr -----
 (hr) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs) (cfs)

2.500	0.0	0.15	0.55	1.01	1.41	1.72	2.02
6.000	2.29	2.65	3.10	3.42	3.67	3.92	4.19
9.500	4.40	4.57	4.71	4.80	4.91	5.02	5.12
13.000	5.20	5.28	5.36	5.29	5.08	5.06	5.09
16.500	5.17	5.31	5.38	5.43	5.52	5.65	5.72
20.000	5.76	6.02	6.47	6.64	6.72	6.74	6.72
23.500	6.74	6.77	6.63	6.36	6.28	6.28	6.15
27.000	5.90	5.83	5.82	5.73	5.56	5.51	5.51
30.500	5.75	6.19	6.34	6.38	7.22	8.74	9.23
34.000	9.38	11.04	14.05	15.03	15.32	16.67	19.02
37.500	19.80	20.05	21.43	23.88	24.69	24.94	25.73
41.000	27.05	27.50	27.65	26.87	25.36	24.89	24.79
44.500	22.43	18.10	16.74	16.38	14.61	11.51	10.53
48.000	10.27	7.40	2.22	0.58	0.14	0.0	

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Elevation (ft)	Peak Flow Time (hr)	Peak Flow Rate (cfs)	Peak Flow Rate (csm)
R_Pond 1	0.087	Downstream	7.800		689.10	47.25	10.84

Line	Flow Values @ time increment of 0.500 hr						
Start Time (hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
7.000	0.0	0.10	0.12	0.15	0.17	0.20	0.22
10.500	0.25	0.28	0.31	0.34	0.36	0.39	0.43
14.000	0.47	0.51	0.54	0.58	0.62	0.65	0.69
17.500	0.73	0.77	0.80	0.84	0.88	0.92	0.96
21.000	1.02	1.08	1.14	1.21	1.27	1.33	1.39
24.500	1.45	1.50	1.56	1.61	1.66	1.71	1.75
28.000	1.80	1.84	1.89	1.93	1.97	2.01	2.05
31.500	2.10	2.14	2.19	2.26	2.30	2.34	2.38
35.000	2.44	2.51	2.58	2.66	2.74	2.84	2.94
38.500	3.22	3.55	3.89	4.24	4.59	4.96	5.34
42.000	5.71	6.25	7.07	7.82	8.53	9.18	9.70
45.500	10.10	10.44	10.72	10.84	10.84	10.81	10.74
49.000	10.41	9.92	9.41	9.02	8.64	8.28	7.93
52.500	7.60	7.29	6.98	6.69	6.41	6.15	5.93
56.000	5.83	5.73	5.64	5.54	5.45	5.36	5.27
59.500	5.18	5.09	5.01	4.92	4.84	4.76	4.68
63.000	4.60	4.53	4.45	4.38	4.30	4.23	4.16
66.500	4.09	4.02	3.95	3.89	3.82	3.76	3.70
70.000	3.63	3.57	3.51	3.45	3.40	3.34	3.28
73.500	3.23	3.18	3.12	3.07	3.02	2.97	2.93
77.000	2.92	2.90	2.88	2.87	2.85	2.83	2.82
80.500	2.80	2.79	2.77	2.75	2.74	2.72	2.71
84.000	2.69	2.68	2.66	2.65	2.63	2.62	2.60
87.500	2.59	2.57	2.56	2.54	2.53	2.51	2.50
91.000	2.49	2.47	2.46	2.44	2.43	2.42	2.40
94.500	2.39	2.37	2.36	2.35	2.33	2.32	2.31
98.000	2.29	2.28	2.27	2.26	2.23	2.21	2.18
101.500	2.16	2.13	2.11	2.09	2.06	2.04	2.02
105.000	1.99	1.97	1.95	1.93	1.91	1.89	1.87
108.500	1.85	1.82	1.80	1.78	1.76	1.74	1.73
112.000	1.71	1.69	1.67	1.65	1.63	1.61	1.60
115.500	1.58	1.56	1.54	1.53	1.51	1.49	1.48
119.000	1.46	1.44	1.43	1.41	1.40	1.38	1.37
122.500	1.35	1.34	1.32	1.31	1.29	1.28	1.26
126.000	1.25	1.23	1.22	1.21	1.19	1.18	1.17
129.500	1.15	1.14	1.13	1.12	1.10	1.09	1.08
133.000	1.07	1.06	1.04	1.03	1.02	1.01	1.00
136.500	0.99	0.98	0.97	0.96	0.95	0.94	0.93
140.000	0.93	0.92	0.91	0.90	0.90	0.89	0.88
143.500	0.87	0.87	0.86	0.85	0.85	0.84	0.83
147.000	0.83	0.82	0.81	0.81	0.80	0.79	0.79
150.500	0.78	0.77	0.77	0.76	0.76	0.75	0.74
154.000	0.74	0.73	0.73	0.72	0.71	0.71	0.70
157.500	0.70	0.69	0.69	0.68	0.67	0.67	0.66
161.000	0.66	0.65	0.65	0.64	0.64	0.63	0.63
164.500	0.62	0.62	0.61	0.61	0.60	0.60	0.59
168.000	0.59	0.58	0.58	0.57	0.57	0.56	0.56
171.500	0.55	0.55	0.55	0.54	0.54	0.53	0.53
175.000	0.52	0.52	0.52	0.51	0.51	0.50	0.50
178.500	0.50	0.49	0.49	0.48	0.48	0.48	0.47
182.000	0.47	0.46	0.46	0.46	0.45	0.45	0.45

Line	Flow Values @ time increment of 0.500 hr						
Start Time (hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
185.500	0.44	0.44	0.43	0.43	0.43	0.42	0.42
189.000	0.42	0.41	0.41	0.41	0.41	0.40	0.40
192.500	0.40	0.40	0.39	0.39	0.39	0.39	0.38
196.000	0.38	0.38	0.38	0.38	0.37	0.37	0.37
199.500	0.37	0.36	0.36	0.36	0.36	0.36	0.35
203.000	0.35	0.35	0.35	0.34	0.34	0.34	0.34
206.500	0.34	0.33	0.33	0.33	0.33	0.33	0.32
210.000	0.32	0.32	0.32	0.32	0.31	0.31	0.31
213.500	0.31	0.31	0.30	0.30	0.30	0.30	0.30
217.000	0.29	0.29	0.29	0.29	0.29	0.29	0.28
220.500	0.28	0.28	0.28	0.28	0.27	0.27	0.27
224.000	0.27	0.27	0.27	0.26	0.26	0.26	0.26
227.500	0.26	0.26	0.26	0.25	0.25	0.25	0.25
231.000	0.25	0.25	0.24	0.24	0.24	0.24	0.24
234.500	0.24	0.24	0.23	0.23	0.23	0.23	0.23
238.000	0.23	0.23	0.22	0.22	0.22	0.22	0.22
241.500	0.22	0.22	0.21	0.21	0.21	0.21	0.21
245.000	0.21	0.21	0.21	0.20	0.20	0.20	0.20
248.500	0.20	0.20	0.20	0.20	0.19	0.19	0.19
252.000	0.19	0.19	0.19	0.19	0.19	0.18	0.18
255.500	0.18	0.18	0.18	0.18	0.18	0.18	0.18
259.000	0.17	0.17	0.17	0.17	0.17	0.17	0.17
262.500	0.17	0.17	0.16	0.16	0.16	0.16	0.16
266.000	0.16	0.16	0.16	0.16	0.16	0.15	0.15
269.500	0.15	0.15	0.15	0.15	0.15	0.15	0.15
273.000	0.15	0.15	0.14	0.14	0.14	0.14	0.14
276.500	0.14	0.14	0.14	0.14	0.14	0.14	0.14
280.000	0.13	0.13	0.13	0.13	0.13	0.13	0.13
283.500	0.13	0.13	0.13	0.13	0.13	0.12	0.12
287.000	0.12	0.12	0.12	0.12	0.12	0.12	0.12
290.500	0.12	0.12	0.12	0.12	0.11	0.11	0.11
294.000	0.11	0.11	0.11	0.11	0.11	0.11	0.11
297.500	0.11	0.11	0.11	0.11	0.11	0.10	0.10
301.000	0.10	0.10	0.10	0.10	0.10	0.10	0.0

Area or Reach Identifier	Drainage Area (sq mi)	Rain Gage ID or Location	Runoff Amount (in)	Elevation (ft)	Peak Flow Time (hr)	Peak Flow Rate (cfs)	Peak Flow Rate (csm)
OUTLET	0.087		7.800		47.25	10.84	124.36

Line	Flow Values @ time increment of 0.500 hr						
Start Time (hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
7.000	0.0	0.10	0.12	0.15	0.17	0.20	0.22
10.500	0.25	0.28	0.31	0.34	0.36	0.39	0.43
14.000	0.47	0.51	0.54	0.58	0.62	0.65	0.69
17.500	0.73	0.77	0.80	0.84	0.88	0.92	0.96
21.000	1.02	1.08	1.14	1.21	1.27	1.33	1.39
24.500	1.45	1.50	1.56	1.61	1.66	1.71	1.75

Line	Flow Values @ time increment of 0.500 hr						
Start Time (hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
28.000	1.80	1.84	1.89	1.93	1.97	2.01	2.05
31.500	2.10	2.14	2.19	2.26	2.30	2.34	2.38
35.000	2.44	2.51	2.58	2.66	2.74	2.84	2.94
38.500	3.22	3.55	3.89	4.24	4.59	4.96	5.34
42.000	5.71	6.25	7.07	7.82	8.53	9.18	9.70
45.500	10.10	10.44	10.72	10.84	10.84	10.81	10.74
49.000	10.41	9.92	9.41	9.02	8.64	8.28	7.93
52.500	7.60	7.29	6.98	6.69	6.41	6.15	5.93
56.000	5.83	5.73	5.64	5.54	5.45	5.36	5.27
59.500	5.18	5.09	5.01	4.92	4.84	4.76	4.68
63.000	4.60	4.53	4.45	4.38	4.30	4.23	4.16
66.500	4.09	4.02	3.95	3.89	3.82	3.76	3.70
70.000	3.63	3.57	3.51	3.45	3.40	3.34	3.28
73.500	3.23	3.18	3.12	3.07	3.02	2.97	2.93
77.000	2.92	2.90	2.88	2.87	2.85	2.83	2.82
80.500	2.80	2.79	2.77	2.75	2.74	2.72	2.71
84.000	2.69	2.68	2.66	2.65	2.63	2.62	2.60
87.500	2.59	2.57	2.56	2.54	2.53	2.51	2.50
91.000	2.49	2.47	2.46	2.44	2.43	2.42	2.40
94.500	2.39	2.37	2.36	2.35	2.33	2.32	2.31
98.000	2.29	2.28	2.27	2.26	2.23	2.21	2.18
101.500	2.16	2.13	2.11	2.09	2.06	2.04	2.02
105.000	1.99	1.97	1.95	1.93	1.91	1.89	1.87
108.500	1.85	1.82	1.80	1.78	1.76	1.74	1.73
112.000	1.71	1.69	1.67	1.65	1.63	1.61	1.60
115.500	1.58	1.56	1.54	1.53	1.51	1.49	1.48
119.000	1.46	1.44	1.43	1.41	1.40	1.38	1.37
122.500	1.35	1.34	1.32	1.31	1.29	1.28	1.26
126.000	1.25	1.23	1.22	1.21	1.19	1.18	1.17
129.500	1.15	1.14	1.13	1.12	1.10	1.09	1.08
133.000	1.07	1.06	1.04	1.03	1.02	1.01	1.00
136.500	0.99	0.98	0.97	0.96	0.95	0.94	0.93
140.000	0.93	0.92	0.91	0.90	0.90	0.89	0.88
143.500	0.87	0.87	0.86	0.85	0.85	0.84	0.83
147.000	0.83	0.82	0.81	0.81	0.80	0.79	0.79
150.500	0.78	0.77	0.77	0.76	0.76	0.75	0.74
154.000	0.74	0.73	0.73	0.72	0.71	0.71	0.70
157.500	0.70	0.69	0.69	0.68	0.67	0.67	0.66
161.000	0.66	0.65	0.65	0.64	0.64	0.63	0.63
164.500	0.62	0.62	0.61	0.61	0.60	0.60	0.59
168.000	0.59	0.58	0.58	0.57	0.57	0.56	0.56
171.500	0.55	0.55	0.55	0.54	0.54	0.53	0.53
175.000	0.52	0.52	0.52	0.51	0.51	0.50	0.50
178.500	0.50	0.49	0.49	0.48	0.48	0.48	0.47
182.000	0.47	0.46	0.46	0.46	0.45	0.45	0.45
185.500	0.44	0.44	0.43	0.43	0.43	0.42	0.42
189.000	0.42	0.41	0.41	0.41	0.41	0.40	0.40
192.500	0.40	0.40	0.39	0.39	0.39	0.39	0.38
196.000	0.38	0.38	0.38	0.38	0.37	0.37	0.37
199.500	0.37	0.36	0.36	0.36	0.36	0.36	0.35
203.000	0.35	0.35	0.35	0.34	0.34	0.34	0.34

Line	Flow Values @ time increment of 0.500 hr							
Start Time	(hr)	(cfs)						
206.500		0.34	0.33	0.33	0.33	0.33	0.33	0.32
210.000		0.32	0.32	0.32	0.32	0.31	0.31	0.31
213.500		0.31	0.31	0.30	0.30	0.30	0.30	0.30
217.000		0.29	0.29	0.29	0.29	0.29	0.29	0.28
220.500		0.28	0.28	0.28	0.28	0.27	0.27	0.27
224.000		0.27	0.27	0.27	0.26	0.26	0.26	0.26
227.500		0.26	0.26	0.26	0.25	0.25	0.25	0.25
231.000		0.25	0.25	0.24	0.24	0.24	0.24	0.24
234.500		0.24	0.24	0.23	0.23	0.23	0.23	0.23
238.000		0.23	0.23	0.22	0.22	0.22	0.22	0.22
241.500		0.22	0.22	0.21	0.21	0.21	0.21	0.21
245.000		0.21	0.21	0.21	0.20	0.20	0.20	0.20
248.500		0.20	0.20	0.20	0.20	0.19	0.19	0.19
252.000		0.19	0.19	0.19	0.19	0.19	0.18	0.18
255.500		0.18	0.18	0.18	0.18	0.18	0.18	0.18
259.000		0.17	0.17	0.17	0.17	0.17	0.17	0.17
262.500		0.17	0.17	0.16	0.16	0.16	0.16	0.16
266.000		0.16	0.16	0.16	0.16	0.16	0.15	0.15
269.500		0.15	0.15	0.15	0.15	0.15	0.15	0.15
273.000		0.15	0.15	0.14	0.14	0.14	0.14	0.14
276.500		0.14	0.14	0.14	0.14	0.14	0.14	0.14
280.000		0.13	0.13	0.13	0.13	0.13	0.13	0.13
283.500		0.13	0.13	0.13	0.13	0.13	0.12	0.12
287.000		0.12	0.12	0.12	0.12	0.12	0.12	0.12
290.500		0.12	0.12	0.12	0.12	0.11	0.11	0.11
294.000		0.11	0.11	0.11	0.11	0.11	0.11	0.11
297.500		0.11	0.11	0.11	0.11	0.11	0.10	0.10
301.000		0.10	0.10	0.10	0.10	0.10	0.10	0.0

Area or Reach Identifier	Drainage Area (sq mi)	----- Peak Flow by Storm -----				
		100y,1h (cfs)	100y,2h (cfs)	100y,3h (cfs)	100y,6h (cfs)	100y,12h (cfs)
001	0.087	151.21	148.82	138.33	106.20	67.84
R_Pond 1	0.087	151.21	148.82	138.33	106.20	67.84
DOWNSTREAM		2.60	3.54	4.38	5.69	8.02
OUTLET	0.087	2.60	3.54	4.38	5.69	8.02

Area or Reach Identifier	Drainage Area (sq mi)	----- Peak Flow by Storm -----		
		100y,18h (cfs)	100y,24h (cfs)	100y,48h (cfs)
001	0.087	51.21	41.18	27.65
R_Pond 1	0.087	51.21	41.18	27.65
DOWNSTREAM		9.76	10.47	10.84
OUTLET	0.087	9.76	10.47	10.84