

STORMWATER REPORT
LXT EASTSIDE DEVELOPMENT

LEE'S SUMMIT PROJECT #47732472

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

SEPTEMBER 2023

Prepared by:



CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS

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General Information:

This drainage analysis is being conducted as part of the LTX Eastside Development project for the Lee's Summit Municipal Airport. The proposed improvements are located on the east side of the airport along NE Hagen Rd. The purpose of this report is to document the drainage for the proposed conditions.

The drainage analysis follows the requirements set forth by the City of Lee's Summit which has adopted Section 5600 of the Kansas City Metropolitan Chapter of the American Public Works Association (APWA) Design Criteria, with its own supplements. APWA Section 5608 requires that the 2-year, 10-year, and 100-year storm events be analyzed and controlled. In addition to this, the City of Lee's Summit requires that the 50-year storm be controlled.

Storm sewer calculations have been prepared using the rational method and are in accordance with these criteria. The attached calculations verify that the post-developed runoff rates for the proposed airport improvements will not exceed the allowable runoff rates for the 2-, 10-, and 100-year storms.

FEMA FIRM map 29095C0430G effective 01/20/2017 classifies the project area as Zone X, indicating it is an area of minimal flood risk.

Methodology:

Runoff calculations for detention analysis have been performed using the SCS Method with a 24-hour Type II Distribution. Rainfall depths for the various storm events were obtained from NOAA in Appendix A. Calculations for the improvements were performed for the 2, 10, 50 and 100-year storm runoff events. Bentley PondPack was used to complete the calculations. A summary of the detention basin is shown in the table below. The outlet structure has also been designed to meet water quality requirements by providing extended detention. Calculations for storm sewer analysis utilized the rational method utilizing intensities from the City's stormwater manual. Detailed calculations are shown in the Appendix, including time of concentration, runoff, water quality calculations, outlet structure information, web soil survey, and output results from Bentley PondPack.

Existing Conditions Analysis:

The existing drainage patterns are displayed in Exhibit A. The watershed analyzed in this report is approximately 82 acres and contains a combination of paved, graveled and grassed areas. The entire project area outfalls to an existing low area that leads to a set of 72" CMPs under NE Hagan Rd.

The following table shows the existing release rates for the required rainfall events for the project area:

EXISTING DRAINAGE

DRAINAGE AREA	AREA (AC)	TC (HRS)	CN	Q2 (cfs)	Q10 (cfs)	Q100 (cfs)
E-1	82.82	0.81	81.55	95.81	184.63	348.80

Proposed Conditions Analysis:

The proposed improvements are contained within 13 acres of the existing 82 acres analyzed in existing conditions. Exhibit B shows the proposed drainage for the watershed in the post-developed stage which routes offsite drainage through a dry bottom detention basin north of the proposed improvements. For the proposed analysis the project area was separated into three distinct drainage areas. Drainage area P-A is the flow from the proposed improvements, and offsite flow that is collected and conveyed through the proposed storm basin, P-B is offsite flow that drains to the basin, P-C is offsite flow that drains around the basin to the existing culverts under NE Hagan Rd.

The following tables show the proposed release rates for the required rainfall events for each of the drainage areas:

PROPOSED DRAINAGE

DRAINAGE AREA	AREA (AC)	TC (HRS)	CN	Q2 (cfs)	Q10 (cfs)	Q100 (cfs)
P-A	13.42	0.26	88.92	36.53	62.03	107.06
P-B	68.23	0.81	80.70	76.94	150.43	287.13
P-C	2.64	0.26	80.00	5.66	10.96	20.75

To calculate the allowable discharge from the proposed detention basin the peak flow into the basin was calculated in PondPack, then the runoff from the 13.4-acre project site (P-A) was subtracted from the basin inflow, and the allowable discharge for the site was added. This allowable discharge was then used to size the basin. The basin provides 231,300 ft³ of the required 98,600 ft³ of WQV storage for the local 90% mean annual event at a peak release rate of 2.54 cfs.

The following table shows the proposed release rates for the required rainfall events for the drainage basin:

PROPOSED DETENTION

RAINFALL EVENT (YEARS)	ALLOWABLE SITE DISCHARGE [D] (cfs)	PEAK FLOW INTO BASIN [B] (cfs)	ALLOWABLE BASIN DISCHARGE [B – P-A + D] (cfs)
2	6.15	86.89	56.51
10	24.58	167.13	129.68
100	36.87	316.53	246.34

Conclusions and Recommendations:

The proposed release rate for the future improvements has been proven to release below the allowable release rate of the site for the drainage basin. The chart below shows the flow reduction provided by the basin for each rainfall event.

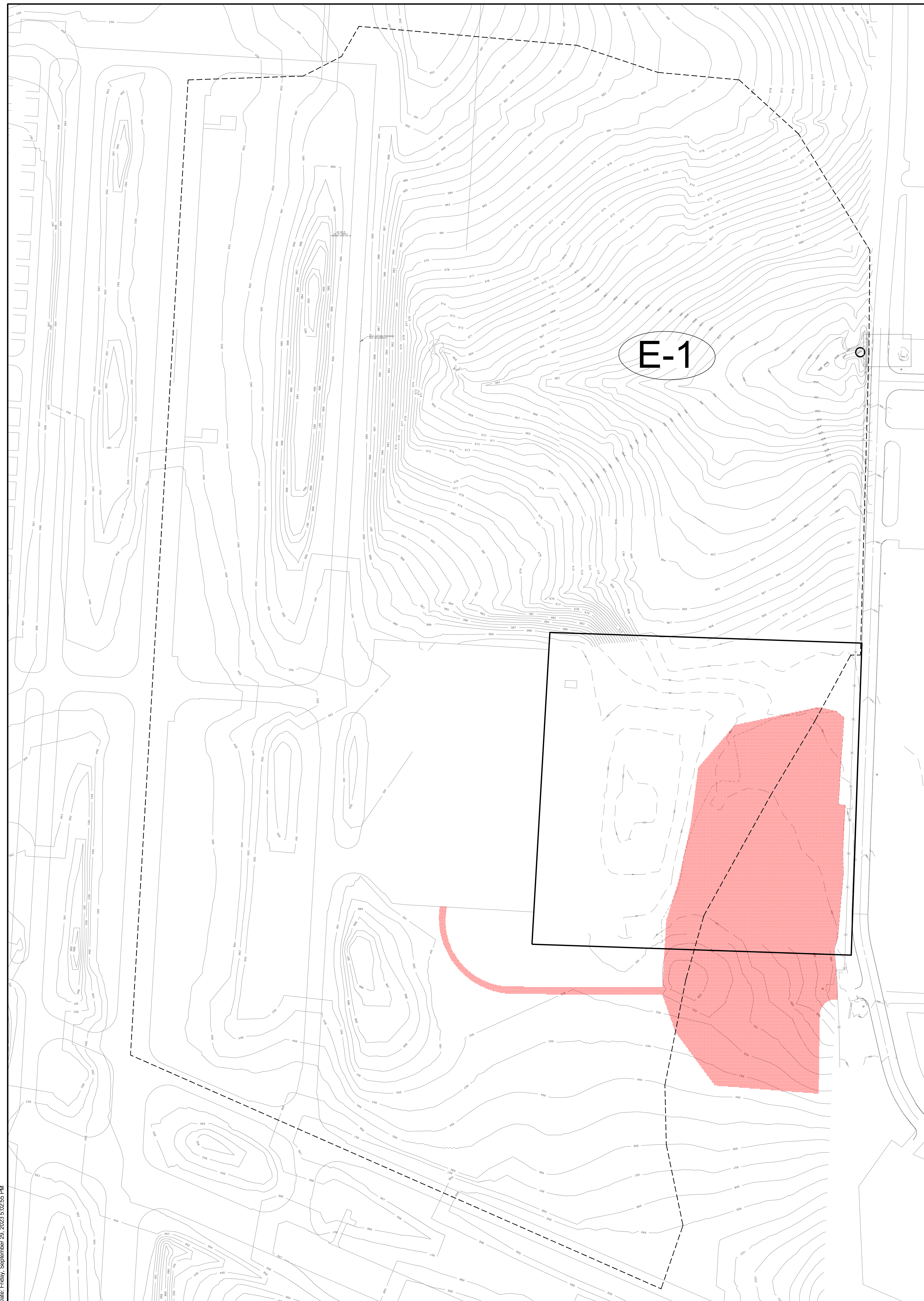
DRAINAGE BASIN

RAINFALL EVENT (YEARS)	PEAK INFLOW RATE (cfs)	MAX WATER SURFACE ELEVATION (FT)	PEAK RELEASE RATE (cfs)	ALLOWABLE RELEASE RATE (cfs)
2	86.89	952.73	21.70	56.51
10	167.13	954.07	92.45	129.68
50	268.06	955.40	190.34	----
100	316.53	955.94	236.26	246.34

Storm Sewer Design:

Approximately 2700 linear feet of storm sewer are proposed to be constructed to accommodate the new hangar parking lots and drives. The sizes of the proposed storm sewers range from 18-inch diameter to 36-inch diameter. Storm sewer design will be evaluated using the Rational Method in accordance with Missouri Department of Transportation Drainage Manual for tributary areas less than 200 acres. Storm sewers will be evaluated using a 25-year design event. Storm sewer computations indicating flows, capacities and flow velocities for each of the pipe runs are included in the Appendix.

EXHIBITS



Description	Area (AC)	C (runoff coefficient)	Total Travel Time (mins)	Q2 (cfs)	Q10 (cfs)	Q100 (cfs)
E-1	82.82	0.41	48.60	95.81	184.63	348.8



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, #100
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olsson

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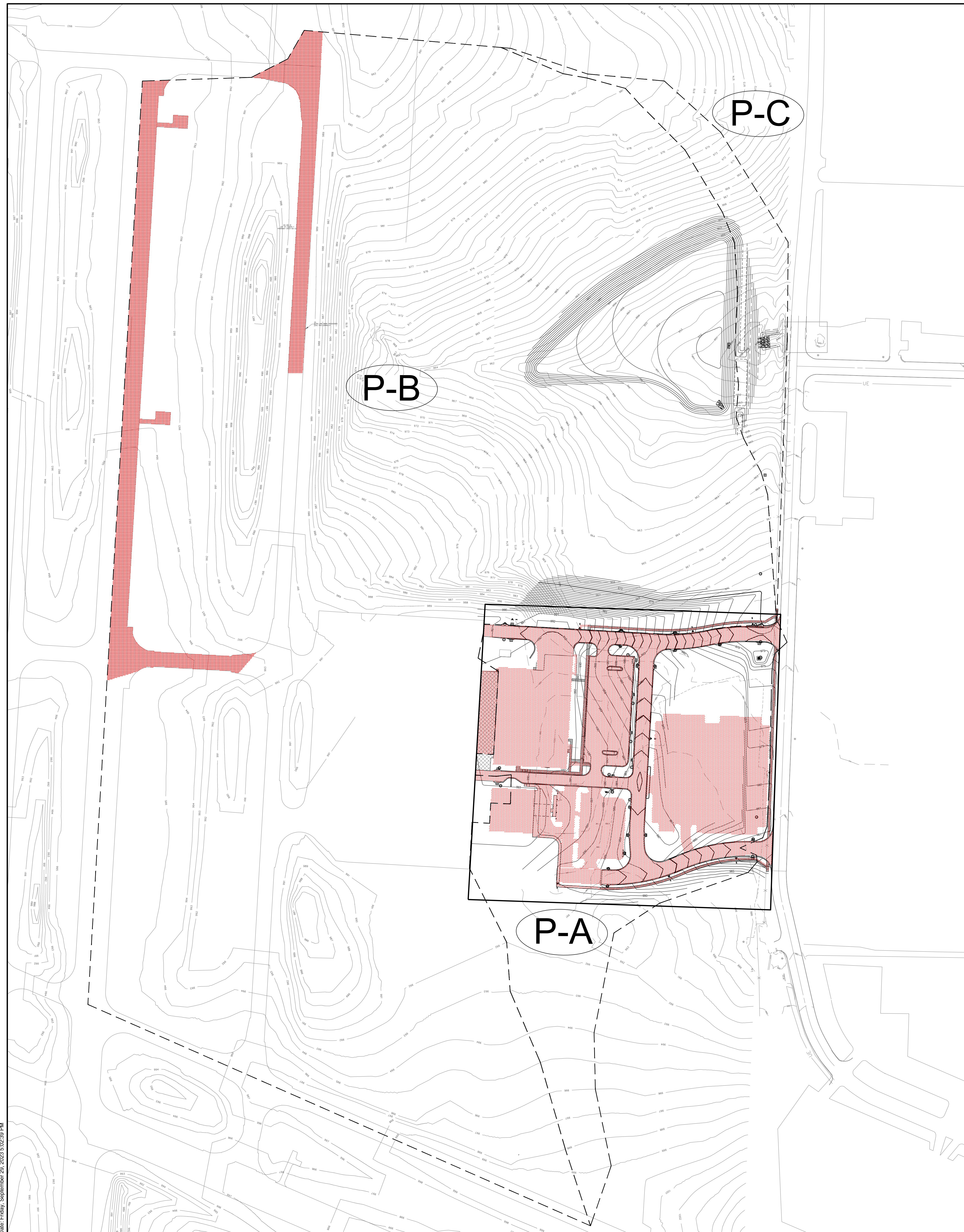
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DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: JRC
APPROVED BY: TGH
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SHEET TITLE

EXISTING
WATERSHED

EXHIBIT A

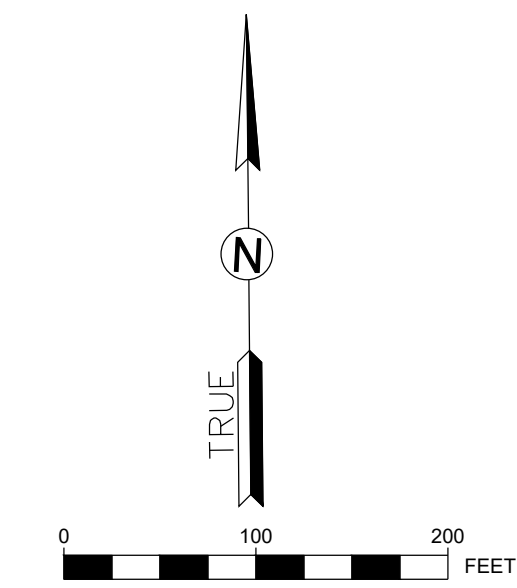


Description	Area (AC)	C (runoff coefficient)	Total Travel Time (mins)	Q2 (cfs)	Q10 (cfs)	Q100 (cfs)
P-A	13.42	0.90	15.88	36.53	62.03	107.06
P-B	68.23	0.30	48.41	76.94	150.43	287.13
P-C	2.64	0.30	15.51	5.66	10.96	20.75

KEYNOTE

IMPERVIOUS AREA

WATERSHED BOUNDARY



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MARK	DATE	DESCRIPTION
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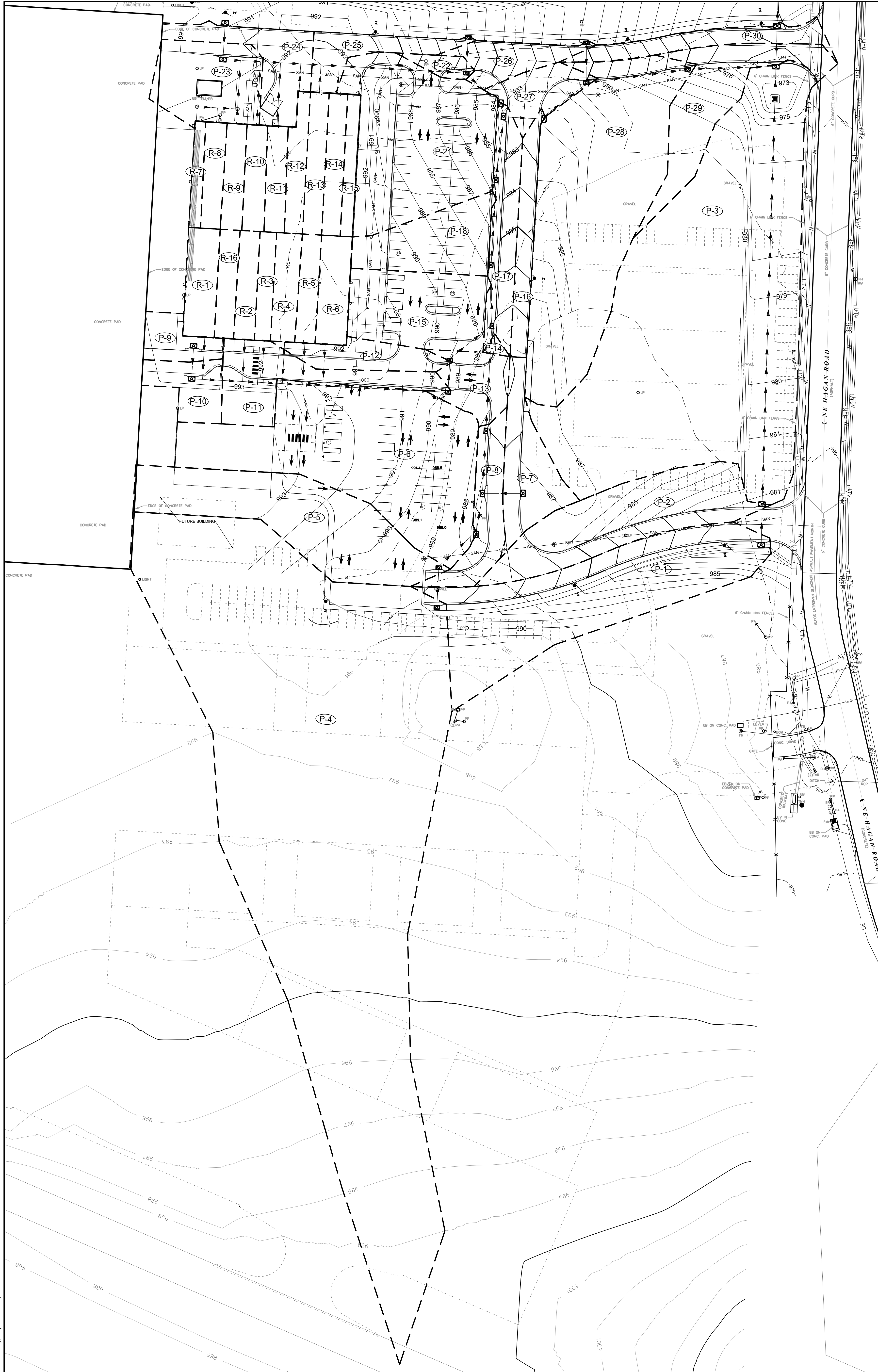
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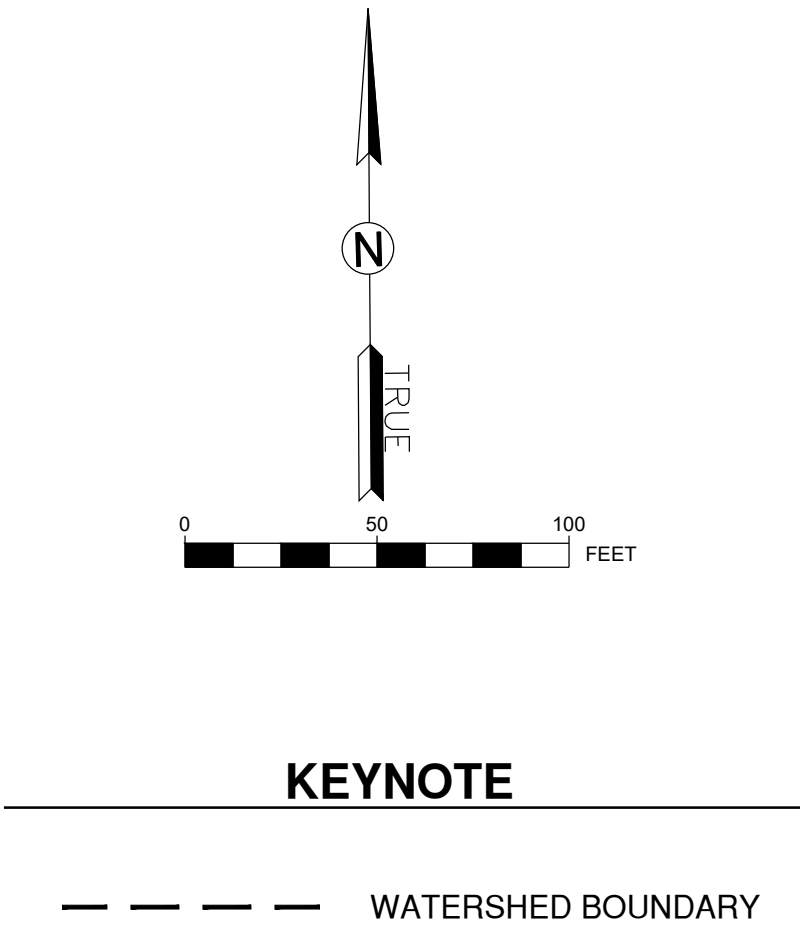
PROPOSED
WATERSHED

EXHIBIT B

Path: K:\LeeSummitMO\2201 284-00\Eng_Design\Report\Drainage\Watershed.dwg
Date: Friday, September 27, 2023 3:26:06 PM



Description	Area (AC)	C (runoff coefficient)	Total Travel Time (mins)	Q (cfs)	Intensity (in/hr)
P-1	0.64	0.30	10.96	2.07	6.82
P-2	0.37	0.30	11.77	1.18	6.64
P-3	1.79	0.30	15.67	9.51	5.89
P-4	3.34	0.30	17.39	10.61	5.67
P-5	0.30	0.30	12.33	1.34	6.52
P-6	0.65	0.30	5.00	4.61	8.53
P-7	0.16	0.30	5.00	0.85	8.53
P-8	0.14	0.30	5.00	0.82	8.53
P-9	0.07	0.30	5.00	0.40	8.53
P-10	0.09	0.30	5.00	0.58	8.53
P-11	0.20	0.30	5.00	1.43	8.53
P-12	0.10	0.30	5.00	0.71	8.53
P-13	0.11	0.30	5.00	0.81	8.53
P-14	0.01	0.30	5.00	0.05	8.53
P-15	0.26	0.30	5.00	1.74	8.53
P-16	0.10	0.30	5.00	0.79	8.53
P-17	0.16	0.30	5.00	0.90	8.53
P-18	0.20	0.30	5.00	1.41	8.53
P-21	0.53	0.30	5.00	3.44	8.53
P-22	0.03	0.30	5.00	0.20	8.53
P-23	0.21	0.30	5.00	0.74	8.53
P-24	0.16	0.30	5.00	1.07	8.53
P-25	0.10	0.30	5.00	0.77	8.53
P-26	0.09	0.30	5.00	0.66	8.53
P-27	0.10	0.30	5.00	0.58	8.53
P-28	0.85	0.30	5.00	2.41	8.53
P-29	0.25	0.30	5.00	1.03	8.53
P-30	0.11	0.30	5.00	0.87	8.53
R-1	0.12	0.90	5.00	0.90	8.53
R-2	0.08	0.90	5.00	0.64	8.53
R-3	0.05	0.90	5.00	0.35	8.53
R-4	0.07	0.90	5.00	0.54	8.53
R-5	0.06	0.90	5.00	0.42	8.53
R-6	0.09	0.90	5.00	0.67	8.53
R-7	0.03	0.90	5.00	0.24	8.53
R-8	0.06	0.90	5.00	0.43	8.53
R-9	0.06	0.90	5.00	0.43	8.53
R-10	0.06	0.90	5.00	0.45	8.53
R-11	0.06	0.90	5.00	0.43	8.53
R-12	0.06	0.90	5.00	0.49	8.53
R-13	0.07	0.90	5.00	0.53	8.53
R-14	0.07	0.90	5.00	0.52	8.53
R-15	0.05	0.90	5.00	0.36	8.53
R-16	0.05	0.90	5.00	0.42	8.53



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MARK	DATE	DESCRIPTION
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EXHIBIT C

APPENDIX A



NOAA Atlas 14, Volume 8, Version 2
Location name: Lees Summit, Missouri, USA*
Latitude: 38.9624°, Longitude: -94.3704°
Elevation: 993 ft**

* source: ESRI Maps

** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypaluk,
 Dale Unruh, Michael Yekta, Geoffery Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

[PF_tabular](#) | [PF_graphical](#) | [Maps & aerals](#)

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	0.414 (0.327-0.520)	0.482 (0.380-0.607)	0.596 (0.469-0.752)	0.693 (0.542-0.877)	0.830 (0.631-1.08)	0.938 (0.699-1.24)	1.05 (0.758-1.41)	1.16 (0.810-1.61)	1.32 (0.887-1.87)	1.44 (0.945-2.06)
10-min	0.606 (0.478-0.762)	0.706 (0.557-0.888)	0.873 (0.686-1.10)	1.02 (0.794-1.28)	1.22 (0.924-1.58)	1.37 (1.02-1.81)	1.54 (1.11-2.07)	1.70 (1.19-2.35)	1.93 (1.30-2.73)	2.11 (1.38-3.02)
15-min	0.739 (0.584-0.929)	0.861 (0.679-1.08)	1.06 (0.837-1.34)	1.24 (0.968-1.57)	1.48 (1.13-1.93)	1.68 (1.25-2.21)	1.87 (1.35-2.52)	2.08 (1.45-2.87)	2.36 (1.58-3.33)	2.57 (1.69-3.68)
30-min	1.02 (0.809-1.29)	1.20 (0.946-1.51)	1.49 (1.17-1.88)	1.74 (1.36-2.20)	2.08 (1.58-2.71)	2.35 (1.75-3.10)	2.63 (1.90-3.55)	2.92 (2.03-4.02)	3.30 (2.22-4.67)	3.60 (2.36-5.16)
60-min	1.34 (1.06-1.68)	1.57 (1.24-1.98)	1.96 (1.54-2.47)	2.29 (1.79-2.90)	2.77 (2.10-3.61)	3.14 (2.34-4.15)	3.53 (2.55-4.76)	3.93 (2.73-5.42)	4.47 (3.01-6.33)	4.90 (3.21-7.01)
2-hr	1.65 (1.31-2.06)	1.94 (1.54-2.43)	2.43 (1.92-3.04)	2.85 (2.24-3.58)	3.45 (2.64-4.48)	3.93 (2.95-5.16)	4.42 (3.22-5.93)	4.94 (3.46-6.78)	5.64 (3.82-7.93)	6.19 (4.09-8.80)
3-hr	1.87 (1.49-2.32)	2.20 (1.75-2.74)	2.76 (2.19-3.44)	3.25 (2.57-4.07)	3.95 (3.05-5.12)	4.52 (3.41-5.92)	5.11 (3.73-6.83)	5.72 (4.03-7.84)	6.58 (4.48-9.22)	7.24 (4.81-10.3)
6-hr	2.25 (1.81-2.78)	2.66 (2.14-3.29)	3.38 (2.70-4.18)	4.00 (3.19-4.98)	4.91 (3.82-6.33)	5.65 (4.29-7.36)	6.42 (4.73-8.54)	7.24 (5.14-9.86)	8.37 (5.74-11.7)	9.27 (6.20-13.1)
12-hr	2.65 (2.15-3.25)	3.17 (2.56-3.89)	4.06 (3.27-4.99)	4.83 (3.87-5.97)	5.97 (4.67-7.66)	6.90 (5.28-8.93)	7.87 (5.84-10.4)	8.90 (6.37-12.1)	10.3 (7.14-14.3)	11.5 (7.73-16.1)
24-hr	3.10 (2.53-3.78)	3.71 (3.02-4.52)	4.76 (3.86-5.81)	5.67 (4.58-6.95)	7.02 (5.53-8.93)	8.11 (6.25-10.4)	9.26 (6.92-12.2)	10.5 (7.55-14.1)	12.2 (8.47-16.8)	13.5 (9.17-18.8)
2-day	3.65 (3.00-4.41)	4.30 (3.53-5.21)	5.43 (4.44-6.59)	6.43 (5.22-7.82)	7.89 (6.26-9.97)	9.08 (7.05-11.6)	10.3 (7.78-13.5)	11.7 (8.47-15.6)	13.5 (9.48-18.5)	15.0 (10.2-20.7)
3-day	4.06 (3.34-4.89)	4.70 (3.87-5.66)	5.82 (4.77-7.03)	6.82 (5.56-8.26)	8.28 (6.61-10.4)	9.49 (7.40-12.1)	10.8 (8.14-14.0)	12.1 (8.84-16.1)	14.0 (9.88-19.1)	15.6 (10.7-21.4)
4-day	4.40 (3.63-5.28)	5.03 (4.15-6.04)	6.14 (5.05-7.38)	7.12 (5.83-8.60)	8.58 (6.86-10.8)	9.78 (7.65-12.4)	11.0 (8.38-14.3)	12.4 (9.07-16.5)	14.3 (10.1-19.4)	15.8 (10.9-21.7)
7-day	5.21 (4.32-6.21)	5.87 (4.87-7.00)	7.01 (5.80-8.38)	8.00 (6.59-9.61)	9.45 (7.59-11.7)	10.6 (8.35-13.4)	11.9 (9.04-15.2)	13.2 (9.67-17.3)	15.0 (10.6-20.2)	16.4 (11.3-22.3)
10-day	5.89 (4.91-7.00)	6.63 (5.52-7.88)	7.87 (6.53-9.37)	8.92 (7.37-10.7)	10.4 (8.38-12.8)	11.6 (9.14-14.5)	12.8 (9.80-16.4)	14.1 (10.4-18.4)	15.8 (11.3-21.2)	17.2 (11.9-23.3)
20-day	7.84 (6.58-9.25)	8.86 (7.43-10.5)	10.5 (8.77-12.4)	11.8 (9.83-14.0)	13.6 (11.0-16.5)	15.0 (11.8-18.4)	16.3 (12.5-20.5)	17.6 (13.0-22.7)	19.3 (13.8-25.6)	20.5 (14.4-27.7)
30-day	9.48 (7.99-11.1)	10.7 (9.03-12.6)	12.7 (10.6-14.9)	14.3 (11.9-16.9)	16.3 (13.2-19.7)	17.8 (14.1-21.8)	19.2 (14.8-24.1)	20.6 (15.3-26.5)	22.3 (16.0-29.4)	23.6 (16.6-31.7)
45-day	11.6 (9.79-13.5)	13.1 (11.0-15.3)	15.4 (13.0-18.1)	17.2 (14.5-20.3)	19.6 (15.8-23.5)	21.3 (16.9-25.9)	22.8 (17.6-28.4)	24.3 (18.1-31.0)	26.0 (18.7-34.1)	27.2 (19.2-36.5)
60-day	13.4 (11.3-15.6)	15.1 (12.8-17.6)	17.7 (14.9-20.7)	19.7 (16.6-23.1)	22.3 (18.0-26.5)	24.1 (19.2-29.1)	25.7 (19.9-31.8)	27.2 (20.3-34.6)	29.0 (20.9-37.8)	30.2 (21.4-40.3)

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.

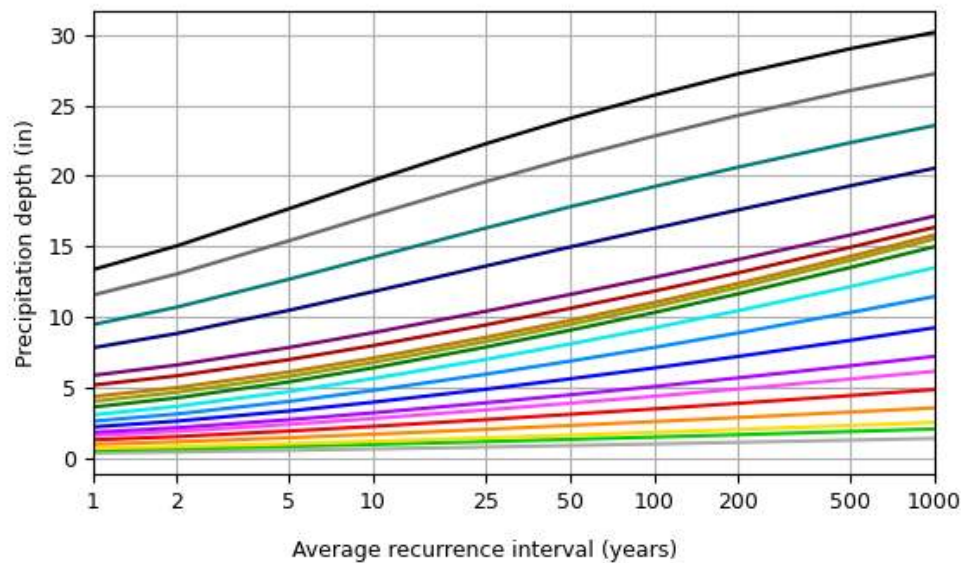
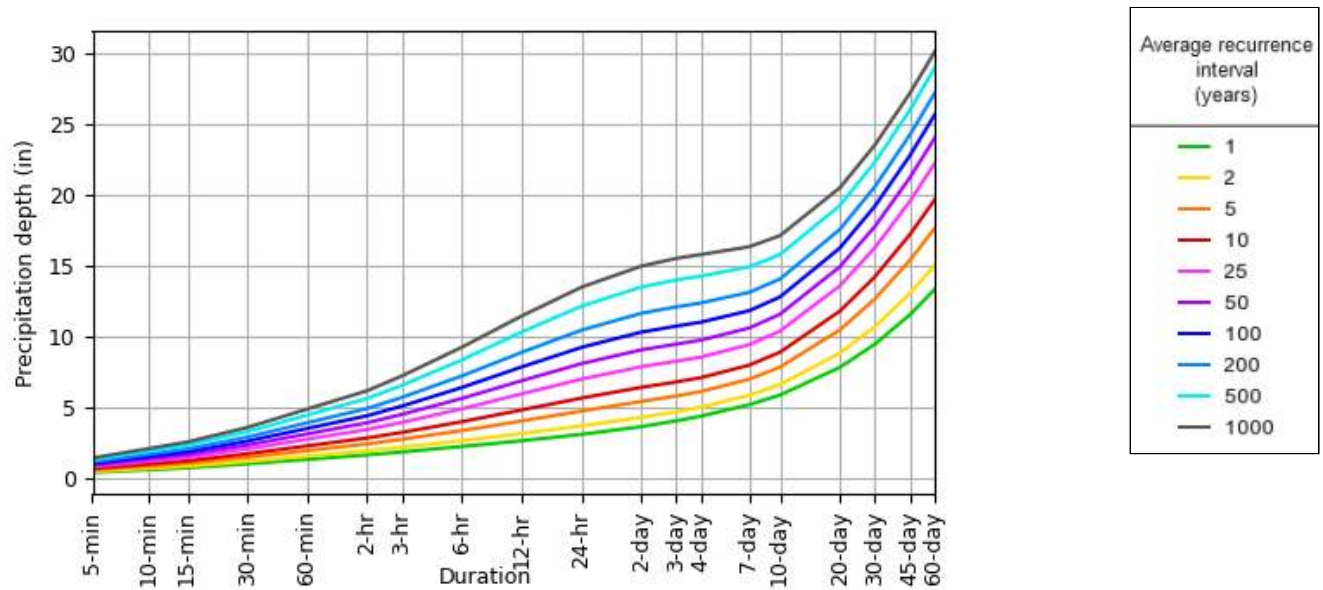
Please refer to NOAA Atlas 14 document for more information.

[Back to Top](#)

PF graphical

PDS-based depth-duration-frequency (DDF) curves

Latitude: 38.9624°, Longitude: -94.3704°



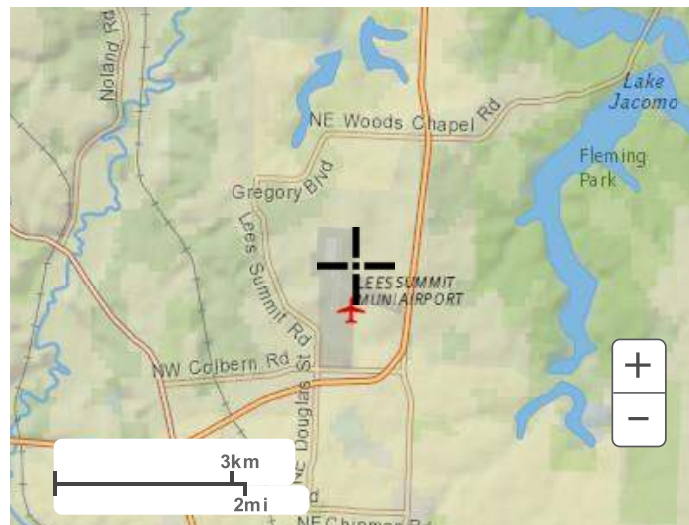
NOAA Atlas 14, Volume 8, Version 2

Created (GMT): Wed Sep 27 21:36:40 2023

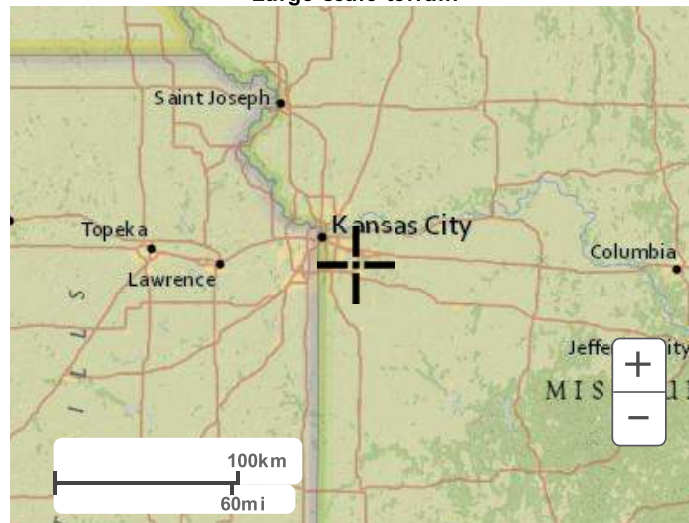
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Maps & aerials

Small scale terrain



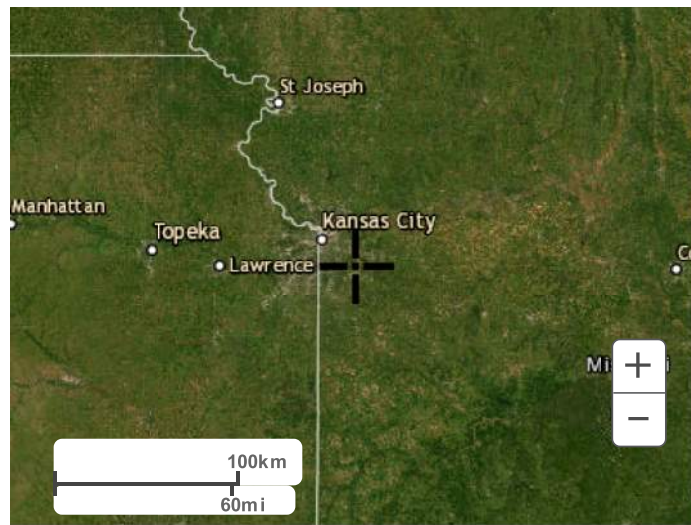
Large scale terrain



Large scale map



Large scale aerial



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[National Weather Service](#)
[National Water Center](#)
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov
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APPENDIX B

Hydrologic Soil Group—Jackson County, Missouri



MAP LEGEND**Area of Interest (AOI)**
 Area of Interest (AOI)
Soils**Soil Rating Polygons**

-  A
-  A/D
-  B
-  B/D
-  C
-  C/D
-  D
-  Not rated or not available

Soil Rating Lines

-  A
-  A/D
-  B
-  B/D
-  C
-  C/D
-  D
-  Not rated or not available

Soil Rating Points

-  A
-  A/D
-  B
-  B/D

-  C
-  C/D
-  D
-  Not rated or not available

Water Features
 Streams and Canals
Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background
 Aerial Photography
MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Jackson County, Missouri
Survey Area Data: Version 24, Aug 31, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 30, 2022—Sep 8, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
10024	Greenton-Urban land complex, 5 to 9 percent slopes	D	27.2	49.7%
10136	Sibley-Urban land complex, 2 to 5 percent slopes	C	27.5	50.3%
Totals for Area of Interest			54.8	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

APPENDIX C

Time of Concentration Calculations														
Overland Flow									Open Channel Flow (MODOT 749.5.3.3.2 Kirpich Equation)					
Drainage Area	C (runoff coefficient)	Length	Upstream El.	Downstream El.	Slope	Overland Travel Time (min)		K	Length	Upstream El.	Downstream El.	Slope	Open Channel Flow Travel Time (min)	Total Travel Time (min)
P-1	0.30	100	993	988	0.0500	8.42		0.0078	300	988	980	0.0267	2.54	10.96
P-2	0.30	90	988	985.5	0.0278	9.72		0.0078	220	985.5	980	0.0250	2.05	11.77
P-3	0.30	111	988	986	0.0180	12.47		0.0078	452	986	971	0.0332	3.21	15.67
P-4	0.30	100	996	994.5	0.0150	12.58		0.0078	460	994.5	989	0.0120	4.81	17.39
P-5	0.30	117	993.5	990	0.0299	10.81		0.0078	110	990	988.5	0.0136	1.52	12.33
P-6	0.30					0.00		0.0078					0.00	5.00
P-7	0.30					0.00		0.0078					0.00	5.00
P-8	0.30					0.00		0.0078					0.00	5.00
P-9	0.30					0.00		0.0078					0.00	5.00
P-10	0.30					0.00		0.0078					0.00	5.00
P-11	0.30					0.00		0.0078					0.00	5.00
P-12	0.30					0.00		0.0078					0.00	5.00
P-13	0.30					0.00		0.0078					0.00	5.00
P-14	0.30					0.00		0.0078					0.00	5.00
P-15	0.30					0.00		0.0078					0.00	5.00
P-16	0.30					0.00		0.0078					0.00	5.00
P-17	0.30					0.00		0.0078					0.00	5.00
P-18	0.30					0.00		0.0078					0.00	5.00
P-19	0.30					0.00		0.0078					0.00	5.00
P-20	0.30					0.00		0.0078					0.00	5.00
P-21	0.30					0.00		0.0078					0.00	5.00
P-22	0.30					0.00		0.0078					0.00	5.00
P-23	0.30					0.00		0.0078					0.00	5.00
P-24	0.30					0.00		0.0078					0.00	5.00
P-25	0.30					0.00		0.0078					0.00	5.00
P-26	0.30					0.00		0.0078					0.00	5.00
P-27	0.30					0.00		0.0078					0.00	5.00
P-28	0.30					0.00		0.0078					0.00	5.00
P-29	0.30					0.00		0.0078					0.00	5.00
P-30	0.30					0.00		0.0078					0.00	5.00
R-1	0.90					0.00		0.0078					0.00	5.00
R-2	0.90					0.00		0.0078					0.00	5.00
R-3	0.90					0.00		0.0078					0.00	5.00
R-4	0.90					0.00		0.0078					0.00	5.00
R-5	0.90					0.00		0.0078					0.00	5.00
R-6	0.90					0.00		0.0078					0.00	5.00
R-7	0.90					0.00		0.0078					0.00	5.00
R-8	0.90					0.00		0.0078					0.00	5.00
R-9	0.90					0.00		0.0078					0.00	5.00
R-10	0.90					0.00		0.0078					0.00	5.00
R-11	0.90					0.00		0.0078					0.00	5.00
R-12	0.90					0.00		0.0078					0.00	5.00
R-13	0.90					0.00		0.0078					0.00	5.00
R-14	0.90					0.00		0.0078					0.00	5.00
R-15	0.90					0.00		0.0078					0.00	5.00
R-16	0.90					0.00		0.0078					0.00	5.00
E-1	0.30	100	978.9	978	0.0090	14.91		0.0078	3800			0.0053	33.49	48.41
P-A	0.90	100	1000	999	0.0100	3.60		0.0078	2209	999	945.5	0.0242	12.28	15.88
P-B	0.30	100	978.9	978	0.0090	14.91		0.0078	3800			0.0053	33.49	48.41
P-C	0.30	96	986.5	984	0.0260	10.26		0.0078	950	984	945.5	0.0405	5.26	15.51

APPENDIX D

25-year Proposed - PHASE 1

Frequency (year)	Drainage Area	Area (SF)	Area (AC)	Intensity (in/hr)	C	Q (cfs)
25	P-1	28001	0.64	6.82	0.47	2.07
25	P-2	16290	0.37	6.64	0.47	1.18
25	P-3	78155.7	1.79	5.89	0.90	9.51
25	P-4	145663	3.34	5.67	0.56	10.61
25	P-5	12938	0.30	6.52	0.69	1.34
25	P-6	28293	0.65	8.53	0.83	4.61
25	P-7	7123	0.16	8.53	0.61	0.85
25	P-8	6055	0.14	8.53	0.69	0.82
25	P-11	8613	0.20	8.53	0.85	1.43
25	P-9	3151	0.07	8.53	0.64	0.40
25	P-10	4083	0.09	8.53	0.73	0.58
25	P-12	4334	0.10	8.53	0.83	0.71
25	P-13	4599	0.11	8.53	0.90	0.81
25	P-14	308	0.01	8.53	0.90	0.05
25	P-15	11406	0.26	8.53	0.78	1.74
25	P-16	4473	0.10	8.53	0.90	0.79
25	P-17	6840	0.16	8.53	0.67	0.90
25	P-18	8590	0.20	8.53	0.84	1.41
25	P-21	23274	0.53	8.53	0.75	3.44
25	P-22	1273	0.03	8.53	0.81	0.20
25	P-23	9227	0.21	8.53	0.41	0.74
25	P-24	6923	0.16	8.53	0.79	1.07
25	P-25	4388	0.10	8.53	0.90	0.77
25	P-26	4021	0.09	8.53	0.84	0.66
25	P-27	4144	0.10	8.53	0.72	0.58
25	P-28	37201	0.85	8.53	0.33	2.41
25	P-29	10822	0.25	8.53	0.49	1.03
25	P-30	4917	0.11	8.53	0.90	0.87
25	P-31	0	0.00	0.00	0.00	0.00
25	R-1	5079	0.12	8.53	0.90	0.90
25	R-2	3649	0.08	8.53	0.90	0.64
25	R-3	1987	0.05	8.53	0.90	0.35
25	R-4	3039	0.07	8.53	0.90	0.54
25	R-5	2409	0.06	8.53	0.90	0.42
25	R-6	3814	0.09	8.53	0.90	0.67
25	R-7	1339	0.03	8.53	0.90	0.24
25	R-8	2448	0.06	8.53	0.90	0.43
25	R-9	2468	0.06	8.53	0.90	0.43
25	R-10	2542	0.06	8.53	0.90	0.45
25	R-11	2431	0.06	8.53	0.90	0.43
25	R-12	2761	0.06	8.53	0.90	0.49
25	R-13	3016	0.07	8.53	0.90	0.53
25	R-14	2954	0.07	8.53	0.90	0.52
25	R-15	2046	0.05	8.53	0.90	0.36
25	R-16	2387	0.05	8.53	0.90	0.42

APPENDIX E

STORM SEWER PIPE CALCULATIONS																			COVER CHECK			
Reach		Add. Drainage Area	Inflow (cfs)	Length (ft)	Pipe Slope (ft/ft)	Pipe Diameter (in)	PIPE INFLOW INV	PIPE OUTFLOW INV	Manning's Coefficient	Pipe Diameter (ft)	Pipe Area (sf)	P _w (ft) (full)	R _h (ft ² /ft)	Velocity Cap (fps)	Q Cap (cfs)	Pass/Fail	% Capacity	TYPE	GRADE INFLOW	COVER INFLOW	GRADE OUTFLOW	COVER OUTFLOW
1	2	P-4	10.61	39	0.018	24	984.10	983.40	0.013	2.00	3.14	6.28	0.5	9.67	30.39	PASS	34.9%	RCP	989.00	2.90	988.25	2.85
2	3	P-5	11.95	48	0.019	24	983.20	982.30	0.013	2.00	3.14	6.28	0.5	9.89	31.06	PASS	38.5%	RCP	988.25	3.05	987.45	3.15
3	4	P-6	16.56	37	0.016	24	982.10	981.50	0.013	2.00	3.14	6.28	0.5	9.19	28.89	PASS	57.3%	RCP	987.45	3.35	986.40	2.90
4	5	P-8	18.23	74	0.018	24	981.30	980.00	0.013	2.00	3.14	6.28	0.5	9.57	30.07	PASS	60.6%	RCP	986.40	3.10	988.00	6.00
5	6	P-13	19.04	70	0.017	24	979.80	978.60	0.013	2.00	3.14	6.28	0.5	9.45	29.70	PASS	64.1%	RCP	988.00	6.20	988.00	7.40
6	7	P-14	26.15	77	0.012	30	978.40	977.50	0.013	2.50	4.91	7.85	0.625	9.06	44.46	PASS	58.8%	RCP	988.00	7.10	988.15	8.15
7	8	P-15	27.89	83	0.018	30	977.30	975.80	0.013	2.50	4.91	7.85	0.625	11.26	55.29	PASS	50.4%	RCP	988.15	8.35	987.50	9.20
8	9	P-18	29.30	61	0.025	30	975.60	974.10	0.013	2.50	4.91	7.85	0.625	13.14	64.49	PASS	45.4%	RCP	987.50	9.40	985.25	8.65
9	10	P-17	39.94	40	0.018	30	973.90	973.20	0.013	2.50	4.91	7.85	0.625	11.08	54.41	PASS	73.4%	RCP	985.25	8.85	984.75	9.05
10	11	P-16	40.73	54	0.019	30	973.00	972.00	0.013	2.50	4.91	7.85	0.625	11.40	55.97	PASS	72.8%	RCP	984.75	9.25	980.00	5.50
11	12	P-27	41.97	101	0.031	30	971.35	968.17	0.013	2.50	4.91	7.85	0.625	14.87	72.98	PASS	57.5%	RCP	980.00	6.15	976.25	5.58
12	13	P-28	44.38	86	0.017	30	967.89	966.39	0.013	2.50	4.91	7.85	0.625	11.07	54.32	PASS	81.7%	RCP	976.25	5.86	973.25	4.36
13	14	P-29	58.16	40	0.015	36	965.81	965.21	0.013	3.00	7.07	9.42	0.75	11.59	81.91	PASS	71.0%	RCP	973.25	4.44	973.00	4.79
14	15A	P-30	59.03	351	0.024	36	964.00	955.72	0.013	3.00	7.07	9.42	0.75	14.53	102.72	PASS	57.5%	RCP	973.00	6.00	963.40	4.68
15A	15	P-31	59.03	183	0.020	36	954.60	951.00	0.013	3.00	7.07	9.42	0.75	13.27	93.80	PASS	62.9%	RCP	963.40	5.80	951.00	--
16	17	P-24	1.07	36	0.017	18	984.48	983.88	0.013	1.50	1.77	4.71	0.375	7.69	13.60	PASS	7.9%	RCP	991.00	5.02	991.00	5.62
17	18	P-23	5.33	268	0.018	18	983.07	978.37	0.013	1.50	1.77	4.71	0.375	7.89	13.95	PASS	38.2%	RCP	991.00	6.43	986.50	6.63
18	19	P-22	6.30	44	0.017	18	975.21	974.46	0.013	1.50	1.77	4.71	0.375	7.78	13.75	PASS	45.8%	RCP	986.50	9.79	986.35	10.39
18A	18	P-25	0.77	35	0.017	18	976.00	975.40	0.013	1.50	1.77	4.71	0.375	7.80	13.79	PASS	5.6%	RCP	987.00	9.50	986.50	9.60
19	9	P-21	9.74	7	0.026	24	973.70	973.52	0.013	2.00	3.14	6.28	0.5	11.58	36.37	PASS	26.8%	RCP	986.35	10.65	985.25	9.73
20	21	P-1	2.07	38	0.018	24	976.60	975.90	0.013	2.00	3.14	6.28	0.5	9.80	30.79	PASS	6.7%	RCP	980.20	1.60	980.00	2.10
21	22	P-2	3.24	426	0.018	24	975.70	968.20	0.013	2.00	3.14	6.28	0.5	9.58	30.10	PASS	10.8%	RCP	980.00	2.30	972.00	1.80
22	13	P-3	12.76	30	0.009	24	968.11	967.85	0.013	2.00	3.14	6.28	0.5	6.72	21.12	PASS	60.4%	RCP	972.00	1.89	973.25	3.40
11A	11	P-26	0.66	39	0.018	24	972.70	972.00	0.013	2.00	3.14	6.28	0.5	9.67	30.39	PASS	2.2%	RCP	980.00	5.30	980.00	6.00
4A	4	P-7	0.85	38	0.018	18	982.20	981.50	0.013	1.50	1.77	4.71	0.375	8.09	14.30	PASS	5.9%	RCP	986.25	2.55	986.40	3.40
6A	6	P-12	7.05	41	0.041	18	982.51	980.81	0.013	1.50	1.77	4.71	0.375	12.14	21.45	PASS	32.9%	RCP	992.75	8.74	988.00	5.69
6B	6D	P-10	0.98	264	0.011	18	987.76	984.93	0.013	1.50	1.77	4.71	0.375	6.17	10.91	PASS	9.0%	RCP	992.50	3.24	993.00	6.57
6D	6A	P-11	6.35	31	0.034	18	983.74	982.69	0.013	1.50	1.77	4.71	0.375	10.97	19.38	PASS	32.7%	RCP	993.00	7.76	992.75	8.56
6C	6B	P-9	0.40	32	0.011	18	988.10	987.76	0.013	1.50	1.77	4.71	0.375	6.14	10.86	PASS	3.7%	RCP	993.00	3.40	992.50	3.24
R-1	P-10	R-1	0.90		0.010	8			0.013	0.67	0.35	2.09	0.166667	3.47	1.21	PASS	73.9%	PVC	--	--	--	--
R-16	P-10	R-16	0.42		0.010	8			0.013	0.67	0.35	2.09	0.166667	3.47	1.21	PASS	34.7%	PVC	--	--	--	--
R-2	P-10	R-2	0.64		0.010	8			0.013	0.67	0.35	2.09	0.166667	3.47	1.21	PASS	53.1%	PVC	--	--	--	--
R-3	P-10	R-3	0.35		0.010	8			0.013	0.67	0.35	2.09	0.166667	3.47	1.21	PASS	28.9%	PVC	--	--	--	--
R-4	P-10	R-4	0.54		0.010	8			0.013	0.67	0.35	2.09	0.166667	3.47	1.21	PASS	44.2%	PVC	--	--	--	--
R-5	P-10	R-5	0.42		0.010	8			0.013	0.67	0.35	2.09	0.166667	3.47	1.21	PASS	35.0%	PVC	--	--	--	--
R-6	P-10	R-6	0.67		0.010	8			0.013	0.67	0.35	2.09	0.166667	3.47	1.21	PASS	55.5%	PVC	--	--	--	--
R-7	P-23	R-7	0.24		0.010	8			0.013	0.67	0.35	2.09	0.166667	3.47	1.21	PASS	19.5%	PVC	--	--	--	--
R-8	P-23	R-8	0.43		0.010	8			0.013	0.67	0.35	2.09	0.166667	3.47	1.21	PASS	35.6%	PVC	--	--	--	--
R-9	P-23	R-9	0.43		0.010	8			0.013	0.67	0.35	2.09	0.166667	3.47	1.21	PASS	35.9%	PVC	--	--	--	--
R-10	P-23	R-10	0.45		0.010	8			0.013	0.67	0.35	2.09	0.166667	3.47	1.21	PASS	37.0%	PVC	--	--	--	--
R-11	P-23	R-11	0.43		0.010	8			0.013	0.67	0.35	2.09	0.166667	3.47	1.21	PASS	35.4%	PVC	--	--	--	--
R-12	P-23	R-12	0.49		0.010	8			0.013	0.67	0.35	2.09	0.166667	3.47	1.21	PASS	40.2%	PVC	--	--	--	--
R-13	P-23	R-13	0.53		0.010	8			0.013	0.67	0.35	2.09	0.166667	3.47	1.21	PASS	43.9%	PVC	--	--	--	--
R-14	P-23	R-14	0.52		0.010	8			0.013	0.67	0.35	2.09	0.166667	3.47	1.21	PASS	43.0%	PVC	--	--	--	--
P-23	17	N/A	3.52		0.010	18			0.013	1.50	1.77	4.71	0.375	5.96	10.53	PASS	33.4%	PVC	--	--	991.00	989.50
P-10	6D	N/A	3.94		0.010	18			0.013	1.50	1.77	4.71	0.375	5.96	10.53	PASS	37.4%	PVC	--	--	993.00	991.50

APPENDIX F

OUTLET STRUCTURE DISCHARGE COMPUTATIONS
FOR EXTENDED DETENTION BASINS

****ENTER THE FOLLOWING INFORMATION*****

PROJECT: 22001238-00 LEE'S SUMMIT AIRPORT EASTSIDE DEVELOPMENT
Date Printed:

RISER PIPE DIAMETER: 0 INCHES
OUTLET PIPE DIA.: 48 INCHES

RED TEXT INDICATES INPUT CELLS

PERFORATION DIA: 4 INCHES
HOLES PER ROW: 1
ORIFICE AREA: 12.56 SQ. IN.

NUMBER OF ROWS: 3

FLOWLINE ELEVATION
AT BOTTOM OF BASIN: 947.30

MAXIMUM PONDING
ELEV. FOR
EXTENDED DETENTION: 952.00

IN COLUMN A, ENTER WATER ELEVATIONS AT 3" INCREMENTS BEGINNING WITH THE ELEVATION
ENTERED ABOVE FOR MAXIMUM PONDING ELEVATION FOR EXTENDED DETENTION
AND PROCEEDING DOWNWARD TO THE FLOWLINE ELEVATION AT THE BOTTOM OF THE BASIN

IN COLUMN B ENTER THE AREA CORRESPONDING TO THE ELEVATION IN COLUMN A

ENTER THE ELEVATION OF EACH ROW OF HOLES BELOW THE ROW NUMBER
ENTER ELEVATION 9999.0 FOR ROWS NOT USED (ROW 1 to be the bottom row)

RESULT IS DISPLAYED AT THE BOTTOM OF COLUMN A

WATER ELEVATION	AVERAGE AREA (SF)	INCREMENTAL VOL (CF)	OUTFLOW RATE (CFS)			COMBINED OUTFLOW	DRAIN TIME (HOURS)
			ROW 1	ROW 2	ROW 3		
947.30	0.00	0	947.30	948.00	948.50	0.000	0.000
948.00	4260.00	1491	0.351	0.000	0.000	0.351	1.179
949.00	29960.00	17110	0.548	0.420	0.297	1.265	3.759
950.00	66600.00	48280	0.690	0.594	0.514	1.798	7.457
951.00	84840.00	75720	0.808	0.727	0.664	2.199	9.564
952.00	92590.00	88715	0.910	0.840	0.786	2.536	9.717

1491

90206

TOTAL VOLUME	231,316	TOTAL DRAIN TIME	31.7 hours
--------------	---------	------------------	------------

MAX. OUTFLOW RATE =	2.54 CFS
---------------------	----------

WQV storm (in) 1.37
Impervious Area 17.53
Total Area 80.82
Imp. 21.690175699
RV 0.245211581
WQV 98,557

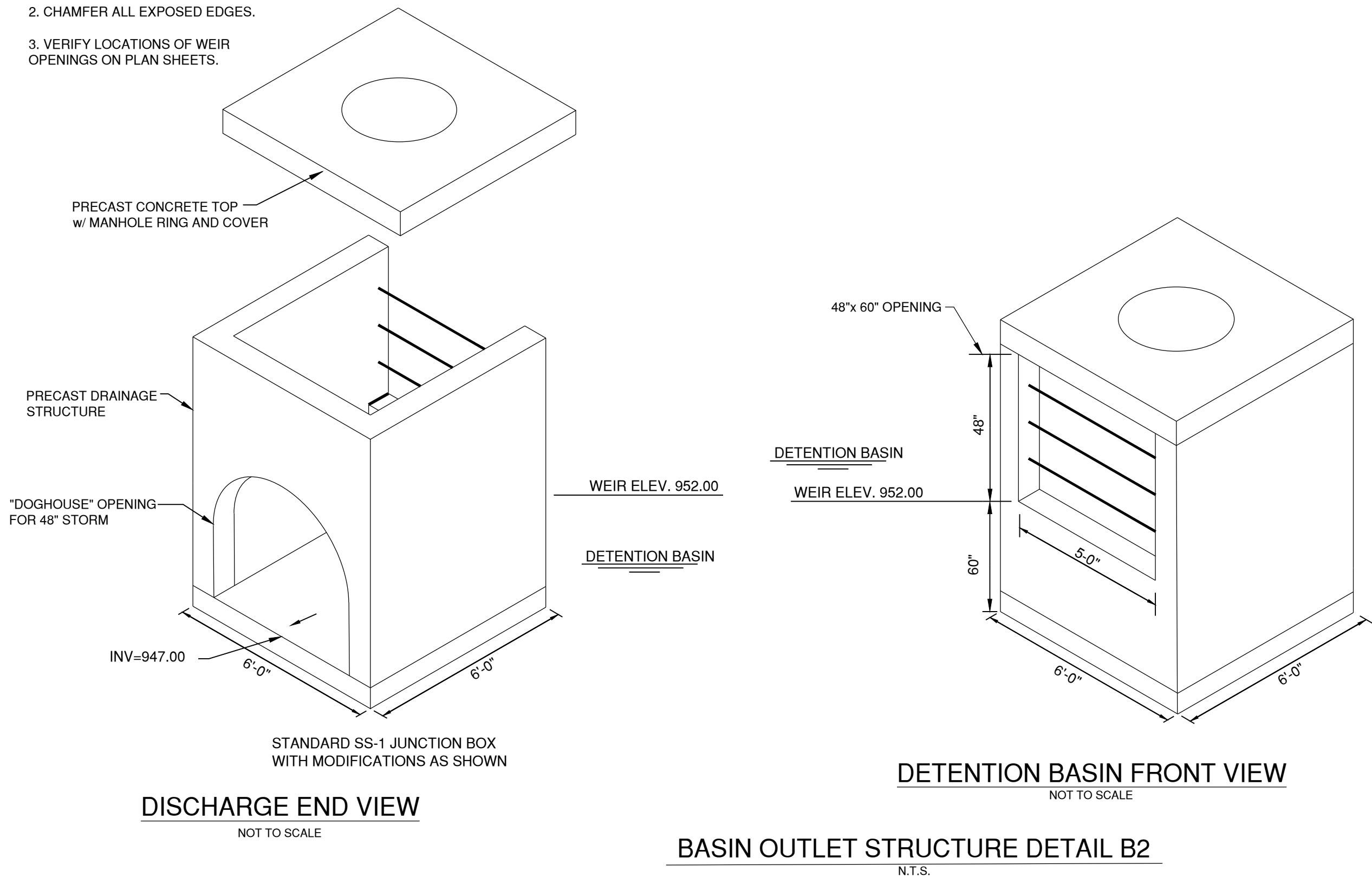
	ELEVATION	DIAMETER (IN)	LENGTH (FT)	AREA (SF)	DEPTH (FT)	TOP ELEV. (FT)
ORIFICE	947.30	4				
ORIFICE	948.00	4				
ORIFICE	948.50	4				
WEIR	952.00		5	20	4	956.00
CULVERT	947.00	48				
WEIR	952.00		5	20	4	956.00
CULVERT	947.00	48				

WQCV =	ELEVATION OF NEXT HIGHEST ORIFACE
98,557	952.00

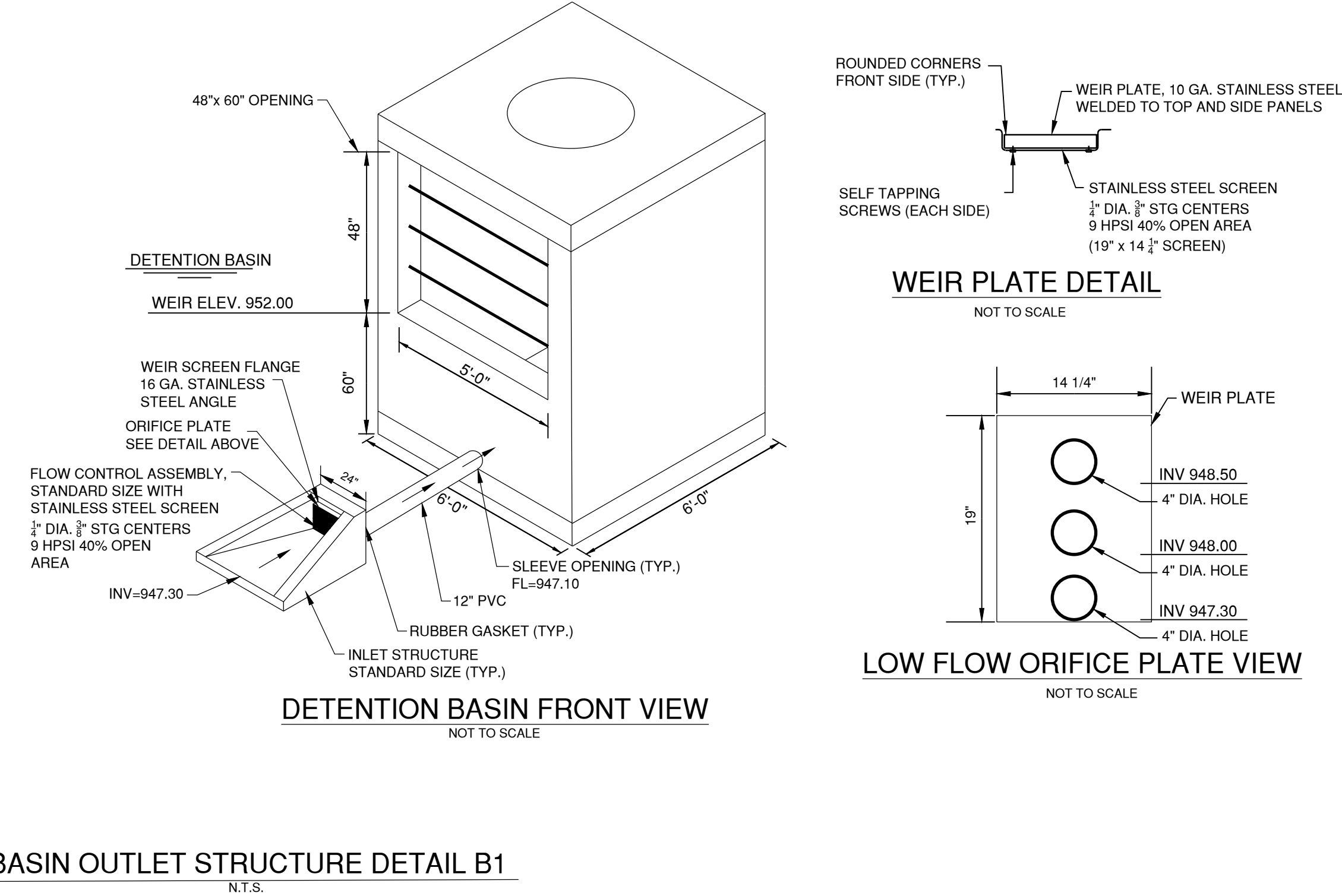
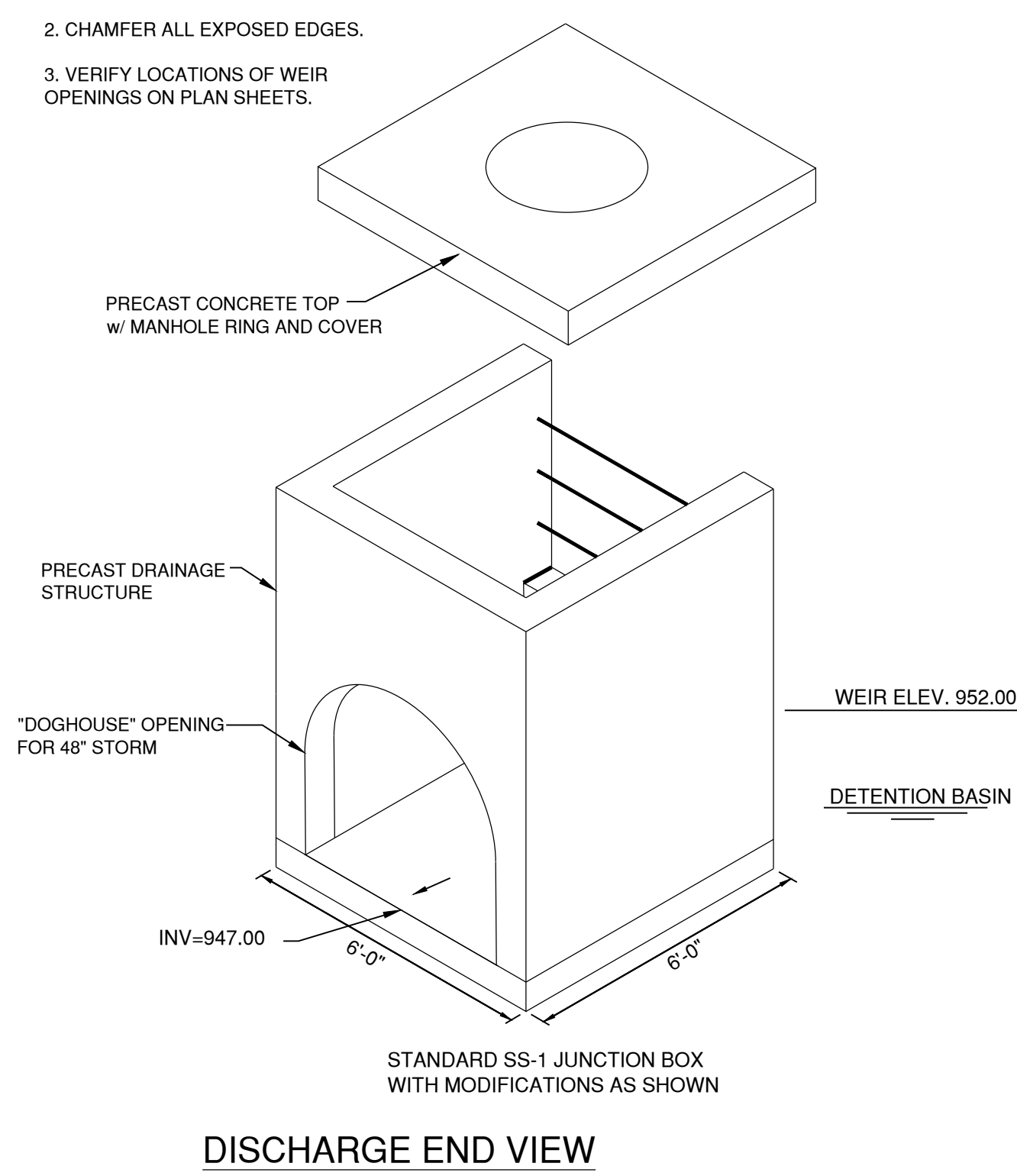
APPENDIX G

Path: K:\LeeSummitMO\2200128-000\DrawSheets\BASIN DETAIL.dwg
Date: Friday, September 27, 2023 10:47:23

- NOTES:
1. ANCHOR LID TO BOX. DRILL, DOWEL & GROUT OR APPROVED EQUAL.
 2. CHAMFER ALL EXPOSED EDGES.
 3. VERIFY LOCATIONS OF WEIR OPENINGS ON PLAN SHEETS.



- NOTES:
1. ANCHOR LID TO BOX. DRILL, DOWEL & GROUT OR APPROVED EQUAL.
 2. CHAMFER ALL EXPOSED EDGES.
 3. VERIFY LOCATIONS OF WEIR OPENINGS ON PLAN SHEETS.

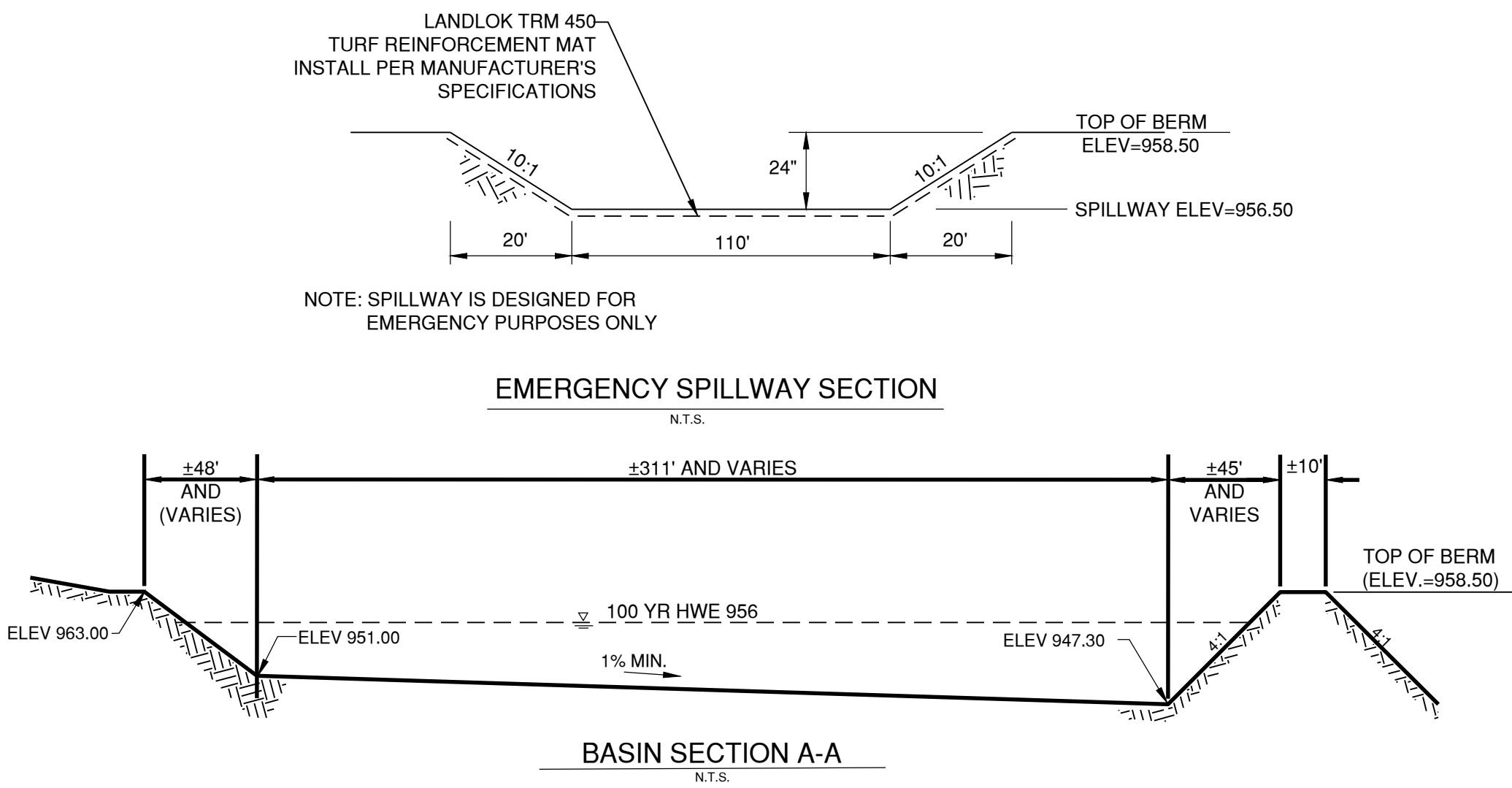


DETENTION BASIN STAGE-STORAGE DISCHARGE

STAGE (FT)	ELEVATION (FT)	TOTAL STORAGE (CU.FT.)	DISCHARGE (CFS)
0.0	948.0	0	0.00
1.0	949.0	4,259	0.37
2.0	950.0	28,372	0.60
3.0	951.0	67,686	0.76
4.0	952.0	110,438	9.33
5.0	953.0	456,730	44.98
6.0	954.0	206,661	95.60
7.0	955.0	265,750	144.83
7.5	955.5	299,637	154.84

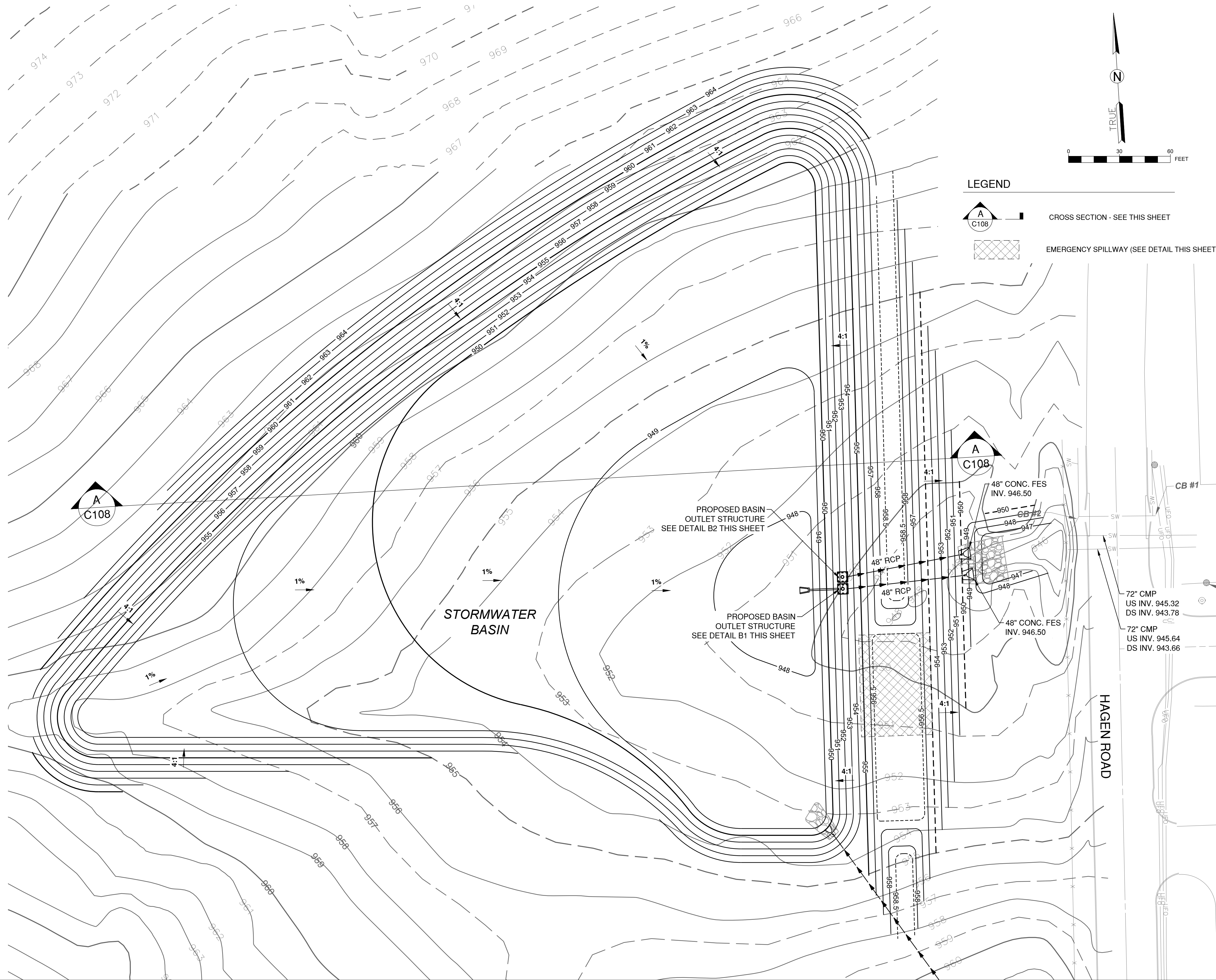
DETENTION BASIN VOLUME

STAGE (FT)	ELEVATION (FT)	CONTOUR AREA (SQ.FT.)	TOTAL STORAGE (CU.FT.)
0.0	948.0	0	0
1.0	949.0	12,778	4,259
2.0	950.0	37,632	28,372
3.0	951.0	41,020	67,686
4.0	952.0	44,508	110,438
5.0	953.0	48,098	456,730
6.0	954.0	51,788	206,661
7.0	955.0	66,703	265,750
7.5	955.5	68,851	299,637



GRADING PLAN GENERAL NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED UPON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS OR CONTACT THE RESPECTIVE UTILITY OWNER TO REQUEST SUCH RELOCATION.
2. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
3. CONTRACTOR SHALL STRIP TOPSOIL AND STOCKPILE ON-SITE OR AT A NEARBY LOCATION AS DIRECTED BY THE OWNER FOR USE AS FINAL GRADING AT THE END OF THE PROJECT. ALL EXCESS TOPSOIL AND STRUCTURAL FILL SHALL BE COMPLETELY REMOVED FROM THE OWNER'S PROPERTY AND PROPERLY DISPOSED OF.
4. ALL EXISTING AND PROPOSED GRADE CONTOURS SHOWN AT 1 FOOT INTERVALS.
5. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
6. SLOPES SHALL BE A MAXIMUM OF 4:1 OR FLATTER UNLESS OTHERWISE INDICATED ON THE PLANS.



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, #100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK DATE DESCRIPTION

PROJECT NO: 47732472
CAD DWG FILE: BASIN DETAIL
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: JRC
APPROVED BY: TGH
COPYRIGHT

SHEET TITLE

BASIN DETAIL

C108

SHEET OF XX

APPENDIX H

Project Summary

Title

Engineer

Company

Date

6/16/2023

Notes

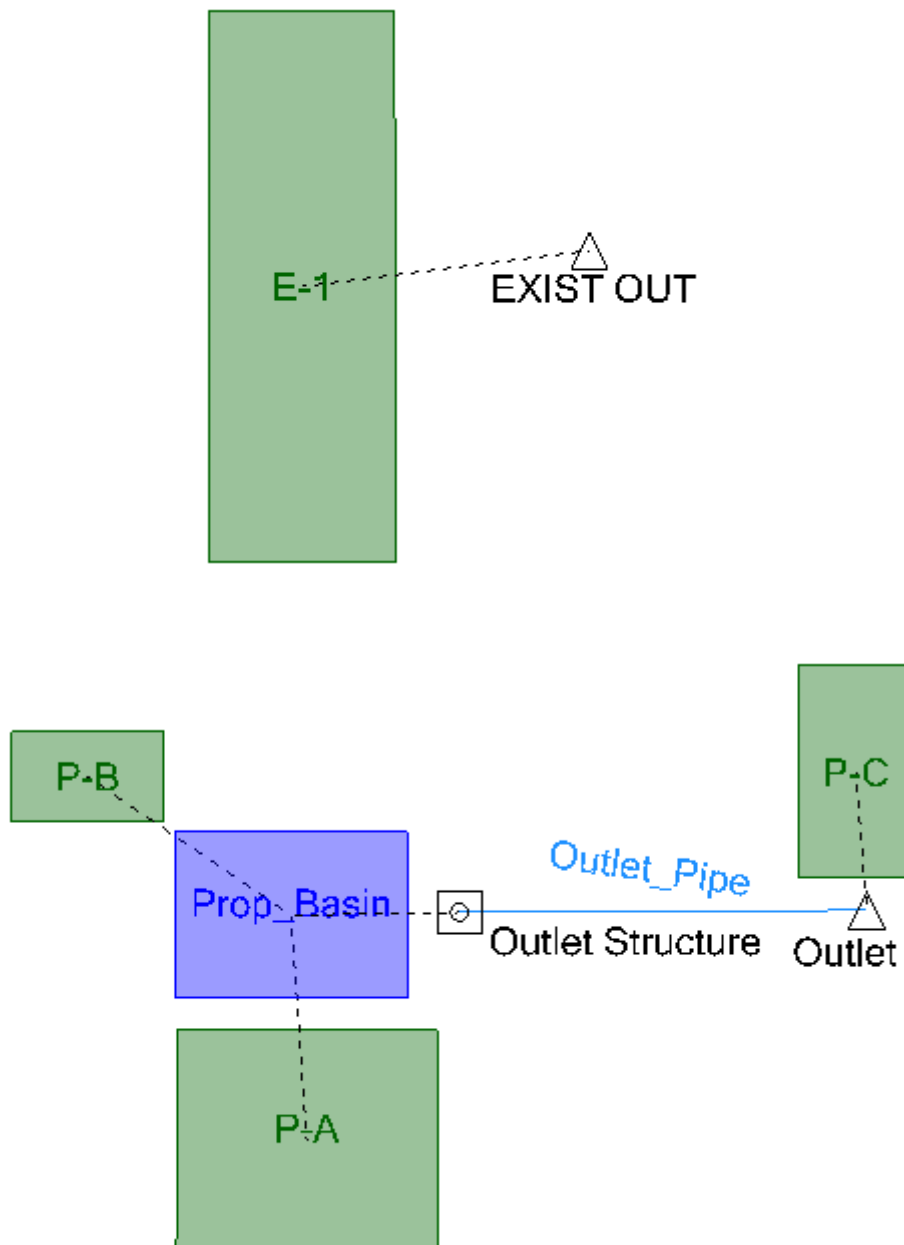


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Subsection: User Notifications

User Notifications

Message Id	15
Scenario	2YR-24HR
Element Type	Composite Outlet Structure
Element Id	31
Label	Basin Outlet Structure
Time	(N/A)
Message	Kr (reverse flow entrance loss coefficient) was not specified. Kr was set to same value as Ke= 0.50 .
Source	Warning
Message Id	19
Scenario	2YR-24HR
Element Type	Composite Outlet Structure
Element Id	31
Label	Basin Outlet Structure
Time	(N/A)
Message	Charged riser flow adjusted to weir flow rate to maintain convergence. If adjustments are desired, substitute a user defined outlet rating table for level pool routing. Or, store rating curve(s) in E-Q-TW table, edit, then route with ICPM option.
Source	Warning
Message Id	15
Scenario	10YR-24HR
Element Type	Composite Outlet Structure
Element Id	31
Label	Basin Outlet Structure
Time	(N/A)
Message	Kr (reverse flow entrance loss coefficient) was not specified. Kr was set to same value as Ke= 0.50 .
Source	Warning
Message Id	19
Scenario	10YR-24HR
Element Type	Composite Outlet Structure
Element Id	31
Label	Basin Outlet Structure
Time	(N/A)
Message	Charged riser flow adjusted to weir flow rate to maintain convergence. If adjustments are desired, substitute a user defined outlet rating table for level pool routing. Or, store rating curve(s) in E-Q-TW table, edit, then route with ICPM option.
Source	Warning
Message Id	15
Scenario	100YR-24HR
Element Type	Composite Outlet Structure
Element Id	31
Label	Basin Outlet Structure
Time	(N/A)
Message	Kr (reverse flow entrance loss coefficient) was not specified. Kr was set to same value as Ke= 0.50 .
Source	Warning

Subsection: User Notifications

User Notifications

Message Id	19
Scenario	100YR-24HR
Element Type	Composite Outlet Structure
Element Id	31
Label	Basin Outlet Structure
Time	(N/A)
Message	Charged riser flow adjusted to weir flow rate to maintain convergence. If adjustments are desired, substitute a user defined outlet rating table for level pool routing. Or, store rating curve(s) in E-Q-TW table, edit, then route with ICPM option.
Source	Warning
Message Id	15
Scenario	50YR-24HR
Element Type	Composite Outlet Structure
Element Id	31
Label	Basin Outlet Structure
Time	(N/A)
Message	Kr (reverse flow entrance loss coefficient) was not specified. Kr was set to same value as Ke= 0.50 .
Source	Warning
Message Id	19
Scenario	50YR-24HR
Element Type	Composite Outlet Structure
Element Id	31
Label	Basin Outlet Structure
Time	(N/A)
Message	Charged riser flow adjusted to weir flow rate to maintain convergence. If adjustments are desired, substitute a user defined outlet rating table for level pool routing. Or, store rating curve(s) in E-Q-TW table, edit, then route with ICPM option.
Source	Warning

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
P-A	2YR-24HR	2	113,177	12.050	36.53
P-A	10YR-24HR	10	197,380	12.050	62.03
P-A	50YR-24HR	50	301,915	12.050	92.60
P-A	100YR-24HR	100	352,251	12.050	107.06
P-B	2YR-24HR	2	454,689	12.350	76.94
P-B	10YR-24HR	10	878,037	12.350	150.43
P-B	50YR-24HR	50	1,425,788	12.350	242.79
P-B	100YR-24HR	100	1,693,982	12.350	287.13
E-1	2YR-24HR	2	564,322	12.350	95.81
E-1	10YR-24HR	10	1,077,928	12.350	184.63
E-1	50YR-24HR	50	1,739,221	12.350	295.63
E-1	100YR-24HR	100	2,062,348	12.350	348.80
P-C	2YR-24HR	2	17,230	12.050	5.66
P-C	10YR-24HR	10	33,545	12.050	10.96
P-C	50YR-24HR	50	54,732	12.050	17.58
P-C	100YR-24HR	100	65,123	12.050	20.75

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
Outlet	2YR-24HR	2	353,993	13.350	22.12
Outlet	10YR-24HR	10	866,269	12.800	93.54
Outlet	50YR-24HR	50	1,527,428	12.650	192.43
Outlet	100YR-24HR	100	1,853,047	12.600	238.98
EXIST OUT	2YR-24HR	2	564,322	12.350	95.81
EXIST OUT	10YR-24HR	10	1,077,928	12.350	184.63
EXIST OUT	50YR-24HR	50	1,739,221	12.350	295.63
EXIST OUT	100YR-24HR	100	2,062,348	12.350	348.80

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
Prop_Basin (IN)	2YR-24HR	2	567,867	12.350	86.89	(N/A)	(N/A)
Prop_Basin (OUT)	2YR-24HR	2	336,763	13.350	21.70	952.73	296,474
Prop_Basin (IN)	10YR-24HR	10	1,075,416	12.250	167.13	(N/A)	(N/A)
Prop_Basin (OUT)	10YR-24HR	10	832,724	12.800	92.45	954.07	431,363
Prop_Basin (IN)	50YR-24HR	50	1,727,703	12.250	268.06	(N/A)	(N/A)
Prop_Basin (OUT)	50YR-24HR	50	1,472,696	12.650	190.34	955.40	574,538

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft ³)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft ³)
Prop_Basin (IN)	100YR-24HR	100	2,046,233	12.250	316.53	(N/A)	(N/A)
Prop_Basin (OUT)	100YR-24HR	100	1,787,924	12.600	236.26	955.94	635,971

Subsection: Time-Depth Curve
Label: Time-Depth - 2
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Time-Depth Curve: 100YR-24HR

Label	100YR-24HR
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	100 years

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.1	0.1	0.1	0.1
1.000	0.1	0.1	0.1	0.1	0.1
1.500	0.1	0.2	0.2	0.2	0.2
2.000	0.2	0.2	0.2	0.2	0.2
2.500	0.3	0.3	0.3	0.3	0.3
3.000	0.3	0.3	0.3	0.4	0.4
3.500	0.4	0.4	0.4	0.4	0.4
4.000	0.4	0.5	0.5	0.5	0.5
4.500	0.5	0.5	0.5	0.6	0.6
5.000	0.6	0.6	0.6	0.6	0.6
5.500	0.7	0.7	0.7	0.7	0.7
6.000	0.7	0.8	0.8	0.8	0.8
6.500	0.8	0.8	0.9	0.9	0.9
7.000	0.9	0.9	1.0	1.0	1.0
7.500	1.0	1.0	1.1	1.1	1.1
8.000	1.1	1.1	1.2	1.2	1.2
8.500	1.2	1.3	1.3	1.3	1.3
9.000	1.4	1.4	1.4	1.5	1.5
9.500	1.5	1.5	1.6	1.6	1.6
10.000	1.7	1.7	1.8	1.8	1.8
10.500	1.9	1.9	2.0	2.1	2.1
11.000	2.2	2.2	2.3	2.4	2.5
11.500	2.6	2.8	3.3	4.0	5.3
12.000	6.1	6.3	6.5	6.6	6.7
12.500	6.8	6.9	7.0	7.0	7.1
13.000	7.1	7.2	7.3	7.3	7.4
13.500	7.4	7.4	7.5	7.5	7.6
14.000	7.6	7.6	7.7	7.7	7.7
14.500	7.8	7.8	7.8	7.8	7.9
15.000	7.9	7.9	8.0	8.0	8.0
15.500	8.0	8.1	8.1	8.1	8.1
16.000	8.1	8.2	8.2	8.2	8.2
16.500	8.3	8.3	8.3	8.3	8.3
17.000	8.4	8.4	8.4	8.4	8.4
17.500	8.4	8.5	8.5	8.5	8.5
18.000	8.5	8.5	8.6	8.6	8.6
18.500	8.6	8.6	8.6	8.7	8.7
19.000	8.7	8.7	8.7	8.7	8.7
19.500	8.8	8.8	8.8	8.8	8.8

Subsection: Time-Depth Curve
 Label: Time-Depth - 2
 Scenario: 100YR-24HR

Return Event: 100 years
 Storm Event: 100YR-24HR

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
20.000	8.8	8.8	8.8	8.9	8.9
20.500	8.9	8.9	8.9	8.9	8.9
21.000	8.9	8.9	9.0	9.0	9.0
21.500	9.0	9.0	9.0	9.0	9.0
22.000	9.0	9.1	9.1	9.1	9.1
22.500	9.1	9.1	9.1	9.1	9.1
23.000	9.2	9.2	9.2	9.2	9.2
23.500	9.2	9.2	9.2	9.2	9.2
24.000	9.3	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time-Depth Curve
Label: Time-Depth - 2
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Time-Depth Curve: 10YR-24HR	
Label	10YR-24HR
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	10 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.1
1.000	0.1	0.1	0.1	0.1	0.1
1.500	0.1	0.1	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.2
2.500	0.2	0.2	0.2	0.2	0.2
3.000	0.2	0.2	0.2	0.2	0.2
3.500	0.2	0.2	0.2	0.3	0.3
4.000	0.3	0.3	0.3	0.3	0.3
4.500	0.3	0.3	0.3	0.3	0.4
5.000	0.4	0.4	0.4	0.4	0.4
5.500	0.4	0.4	0.4	0.4	0.4
6.000	0.5	0.5	0.5	0.5	0.5
6.500	0.5	0.5	0.5	0.5	0.6
7.000	0.6	0.6	0.6	0.6	0.6
7.500	0.6	0.6	0.6	0.7	0.7
8.000	0.7	0.7	0.7	0.7	0.7
8.500	0.8	0.8	0.8	0.8	0.8
9.000	0.8	0.9	0.9	0.9	0.9
9.500	0.9	0.9	1.0	1.0	1.0
10.000	1.0	1.1	1.1	1.1	1.1
10.500	1.2	1.2	1.2	1.3	1.3
11.000	1.3	1.4	1.4	1.5	1.5
11.500	1.6	1.7	2.0	2.5	3.2
12.000	3.8	3.9	4.0	4.1	4.1
12.500	4.2	4.2	4.3	4.3	4.4
13.000	4.4	4.4	4.5	4.5	4.5
13.500	4.6	4.6	4.6	4.6	4.7
14.000	4.7	4.7	4.7	4.7	4.8
14.500	4.8	4.8	4.8	4.8	4.8
15.000	4.9	4.9	4.9	4.9	4.9
15.500	4.9	5.0	5.0	5.0	5.0
16.000	5.0	5.0	5.0	5.1	5.1
16.500	5.1	5.1	5.1	5.1	5.1
17.000	5.1	5.2	5.2	5.2	5.2
17.500	5.2	5.2	5.2	5.2	5.2
18.000	5.2	5.3	5.3	5.3	5.3
18.500	5.3	5.3	5.3	5.3	5.3
19.000	5.3	5.4	5.4	5.4	5.4
19.500	5.4	5.4	5.4	5.4	5.4

Subsection: Time-Depth Curve
 Label: Time-Depth - 2
 Scenario: 10YR-24HR

Return Event: 10 years
 Storm Event: 10YR-24HR

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
20.000	5.4	5.4	5.4	5.4	5.5
20.500	5.5	5.5	5.5	5.5	5.5
21.000	5.5	5.5	5.5	5.5	5.5
21.500	5.5	5.5	5.5	5.6	5.6
22.000	5.6	5.6	5.6	5.6	5.6
22.500	5.6	5.6	5.6	5.6	5.6
23.000	5.6	5.6	5.6	5.7	5.7
23.500	5.7	5.7	5.7	5.7	5.7
24.000	5.7	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time-Depth Curve
Label: Time-Depth - 2
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Time-Depth Curve: 2YR-24HR

Label	2YR-24HR
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	2 years

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.1	0.1
1.500	0.1	0.1	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.1	0.1	0.1	0.1
3.000	0.1	0.1	0.1	0.1	0.1
3.500	0.2	0.2	0.2	0.2	0.2
4.000	0.2	0.2	0.2	0.2	0.2
4.500	0.2	0.2	0.2	0.2	0.2
5.000	0.2	0.2	0.2	0.3	0.3
5.500	0.3	0.3	0.3	0.3	0.3
6.000	0.3	0.3	0.3	0.3	0.3
6.500	0.3	0.3	0.3	0.4	0.4
7.000	0.4	0.4	0.4	0.4	0.4
7.500	0.4	0.4	0.4	0.4	0.4
8.000	0.4	0.5	0.5	0.5	0.5
8.500	0.5	0.5	0.5	0.5	0.5
9.000	0.5	0.6	0.6	0.6	0.6
9.500	0.6	0.6	0.6	0.6	0.7
10.000	0.7	0.7	0.7	0.7	0.7
10.500	0.8	0.8	0.8	0.8	0.8
11.000	0.9	0.9	0.9	1.0	1.0
11.500	1.0	1.1	1.3	1.6	2.1
12.000	2.5	2.5	2.6	2.6	2.7
12.500	2.7	2.8	2.8	2.8	2.8
13.000	2.9	2.9	2.9	2.9	2.9
13.500	3.0	3.0	3.0	3.0	3.0
14.000	3.0	3.1	3.1	3.1	3.1
14.500	3.1	3.1	3.1	3.1	3.2
15.000	3.2	3.2	3.2	3.2	3.2
15.500	3.2	3.2	3.2	3.2	3.3
16.000	3.3	3.3	3.3	3.3	3.3
16.500	3.3	3.3	3.3	3.3	3.3
17.000	3.3	3.4	3.4	3.4	3.4
17.500	3.4	3.4	3.4	3.4	3.4
18.000	3.4	3.4	3.4	3.4	3.4
18.500	3.4	3.5	3.5	3.5	3.5
19.000	3.5	3.5	3.5	3.5	3.5
19.500	3.5	3.5	3.5	3.5	3.5

Subsection: Time-Depth Curve
 Label: Time-Depth - 2
 Scenario: 2YR-24HR

Return Event: 2 years
 Storm Event: 2YR-24HR

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
20.000	3.5	3.5	3.5	3.5	3.6
20.500	3.6	3.6	3.6	3.6	3.6
21.000	3.6	3.6	3.6	3.6	3.6
21.500	3.6	3.6	3.6	3.6	3.6
22.000	3.6	3.6	3.6	3.6	3.6
22.500	3.6	3.7	3.7	3.7	3.7
23.000	3.7	3.7	3.7	3.7	3.7
23.500	3.7	3.7	3.7	3.7	3.7
24.000	3.7	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time-Depth Curve
Label: Time-Depth - 2
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Time-Depth Curve: 50YR-24HR

Label	50YR-24HR
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	50 years

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.1	0.1	0.1	0.1
1.000	0.1	0.1	0.1	0.1	0.1
1.500	0.1	0.1	0.1	0.2	0.2
2.000	0.2	0.2	0.2	0.2	0.2
2.500	0.2	0.2	0.2	0.3	0.3
3.000	0.3	0.3	0.3	0.3	0.3
3.500	0.3	0.3	0.4	0.4	0.4
4.000	0.4	0.4	0.4	0.4	0.4
4.500	0.4	0.5	0.5	0.5	0.5
5.000	0.5	0.5	0.5	0.6	0.6
5.500	0.6	0.6	0.6	0.6	0.6
6.000	0.6	0.7	0.7	0.7	0.7
6.500	0.7	0.7	0.8	0.8	0.8
7.000	0.8	0.8	0.8	0.9	0.9
7.500	0.9	0.9	0.9	0.9	1.0
8.000	1.0	1.0	1.0	1.0	1.1
8.500	1.1	1.1	1.1	1.1	1.2
9.000	1.2	1.2	1.2	1.3	1.3
9.500	1.3	1.3	1.4	1.4	1.4
10.000	1.5	1.5	1.5	1.6	1.6
10.500	1.7	1.7	1.7	1.8	1.8
11.000	1.9	2.0	2.0	2.1	2.2
11.500	2.3	2.5	2.9	3.5	4.6
12.000	5.4	5.5	5.7	5.8	5.9
12.500	6.0	6.0	6.1	6.2	6.2
13.000	6.3	6.3	6.4	6.4	6.4
13.500	6.5	6.5	6.6	6.6	6.6
14.000	6.7	6.7	6.7	6.7	6.8
14.500	6.8	6.8	6.8	6.9	6.9
15.000	6.9	6.9	7.0	7.0	7.0
15.500	7.0	7.1	7.1	7.1	7.1
16.000	7.1	7.2	7.2	7.2	7.2
16.500	7.2	7.2	7.3	7.3	7.3
17.000	7.3	7.3	7.3	7.4	7.4
17.500	7.4	7.4	7.4	7.4	7.5
18.000	7.5	7.5	7.5	7.5	7.5
18.500	7.5	7.6	7.6	7.6	7.6
19.000	7.6	7.6	7.6	7.6	7.7
19.500	7.7	7.7	7.7	7.7	7.7

Subsection: Time-Depth Curve
 Label: Time-Depth - 2
 Scenario: 50YR-24HR

Return Event: 50 years
 Storm Event: 50YR-24HR

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
20.000	7.7	7.7	7.7	7.8	7.8
20.500	7.8	7.8	7.8	7.8	7.8
21.000	7.8	7.8	7.8	7.9	7.9
21.500	7.9	7.9	7.9	7.9	7.9
22.000	7.9	7.9	7.9	8.0	8.0
22.500	8.0	8.0	8.0	8.0	8.0
23.000	8.0	8.0	8.0	8.0	8.1
23.500	8.1	8.1	8.1	8.1	8.1
24.000	8.1	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Unit Hydrograph Equations

Unit Hydrograph Method (Computational Notes)

Definition of Terms

At	Total area (acres): $A_t = A_i + A_p$
Ai	Impervious area (acres)
Ap	Pervious area (acres)
CNi	Runoff curve number for impervious area
CNp	Runoff curve number for pervious area
fLoss	f loss constant infiltration (depth/time)
gKs	Saturated Hydraulic Conductivity (depth/time)
Md	Volumetric Moisture Deficit
Psi	Capillary Suction (length)
hK	Horton Infiltration Decay Rate (time^{-1})
fo	Initial Infiltration Rate (depth/time)
fc	Ultimate(capacity)Infiltration Rate (depth/time)
Ia	Initial Abstraction (length)
dt	Computational increment (duration of unit excess rainfall) Default dt is smallest value of $0.1333T_c$, r_{tm} , and t_h (Smallest dt is then adjusted to match up with T_p)
UDdt	User specified override computational main time increment (only used if UDdt is $\geq 0.1333T_c$)
D(t)	Point on distribution curve (fraction of P) for time step t
K	$2 / (1 + (T_r/T_p))$: default $K = 0.75$: (for $T_r/T_p = 1.67$)
Ks	Hydrograph shape factor = Unit Conversions * $K = ((1\text{hr}/3600\text{sec}) * (1\text{ft}/12\text{in}) * ((5280\text{ft})^2/\text{sq.mi})) * K$ Default $K_s = 645.333 * 0.75 = 484$
Lag	Lag time from center of excess runoff (dt) to T_p : $\text{Lag} = 0.6T_c$
P	Total precipitation depth, inches
Pa(t)	Accumulated rainfall at time step t
Pi(t)	Incremental rainfall at time step t
qp	Peak discharge (cfs) for 1in. runoff, for 1hr, for 1 sq.mi. = $(K_s * A * Q) / T_p$ (where $Q = 1\text{in. runoff}$, $A = \text{sq.mi.}$)
Qu(t)	Unit hydrograph ordinate (cfs) at time step t
Q(t)	Final hydrograph ordinate (cfs) at time step t
Rai(t)	Accumulated runoff (inches) at time step t for impervious area
Rap(t)	Accumulated runoff (inches) at time step t for pervious area
Rii(t)	Incremental runoff (inches) at time step t for impervious area
Rip(t)	Incremental runoff (inches) at time step t for pervious area
R(t)	Incremental weighted total runoff (inches)
Rtm	Time increment for rainfall table
Si	S for impervious area: $S_i = (1000/CN_i) - 10$
Sp	S for pervious area: $S_p = (1000/CN_p) - 10$
t	Time step (row) number
Tc	Time of concentration
Tb	Time (hrs) of entire unit hydrograph: $T_b = T_p + T_r$
Tp	Time (hrs) to peak of a unit hydrograph: $T_p = (dt/2) + \text{Lag}$
Tr	Time (hrs) of receding limb of unit hydrograph: $T_r = \text{ratio of } T_p$

Subsection: Unit Hydrograph Equations

Unit Hydrograph Method

Computational Notes

Precipitation

Column (1)	Time for time step t
Column (2)	$D(t)$ = Point on distribution curve for time step t
Column (3)	$P_i(t) = P_a(t) - P_a(t-1)$: Col.(4) - Preceding Col.(4)
Column (4)	$P_a(t) = D(t) \times P$: Col.(2) x P

Pervious Area Runoff (using SCS Runoff CN Method)

Column (5)	$Rap(t)$ = Accumulated pervious runoff for time step t If $(P_a(t) \leq 0.2Sp)$ then use: $Rap(t) = 0.0$ If $(P_a(t) > 0.2Sp)$ then use: $Rap(t) = (Col.(4) - 0.2Sp) * 2 / (Col.(4) + 0.8Sp)$
Column (6)	$Rip(t)$ = Incremental pervious runoff for time step t $Rip(t) = Rap(t) - Rap(t-1)$ $Rip(t) = Col.(5)$ for current row - $Col.(5)$ for preceding row.

Impervious Area Runoff

Column (7 & 8)...	Did not specify to use impervious areas.
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Incremental Weighted Runoff

Column (9)	$R(t) = (A_p/A_t) \times Rip(t) + (A_i/A_t) \times R_{ii}(t)$ $R(t) = (A_p/A_t) \times Col.(6) + (A_i/A_t) \times Col.(8)$
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SCS Unit Hydrograph Method

Column (10)	$Q(t)$ is computed with the SCS unit hydrograph method using $R(t)$ and $Q_u(t)$.
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Subsection: Unit Hydrograph Summary

Label: E-1

Scenario: 2YR-24HR

Return Event: 2 years

Storm Event: 2YR-24HR

Storm Event	2YR-24HR
Return Event	2 years
Duration	24.000 hours
Depth	3.7 in
Time of Concentration (Composite)	0.813 hours
Area (User Defined)	81.82 acres
Computational Time Increment	0.108 hours
Time to Peak (Computed)	12.358 hours
Flow (Peak, Computed)	96.36 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.350 hours
Flow (Peak Interpolated Output)	95.81 ft ³ /s
Drainage Area	
SCS CN (Composite)	81.55
Area (User Defined)	81.82 acres
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.9 in
Runoff Volume (Pervious)	570,871 ft ³
Hydrograph Volume (Area under Hydrograph curve)	
Volume	564,322 ft ³
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.813 hours
Computational Time Increment	0.108 hours
Unit Hydrograph Shape Factor	483.43
K Factor	0.75
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	114.03 ft ³ /s
Unit peak time, Tp	0.542 hours
Unit receding limb, Tr	2.168 hours
Total unit time, Tb	2.710 hours

Subsection: Unit Hydrograph (Hydrograph Table)
Label: E-1
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Storm Event	2YR-24HR
Return Event	2 years
Duration	24.000 hours
Depth	3.7 in
Time of Concentration (Composite)	0.813 hours
Area (User Defined)	81.82 acres

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
8.200	0.00	0.00	0.00	0.01	0.01
8.450	0.01	0.02	0.03	0.04	0.06
8.700	0.07	0.09	0.11	0.14	0.17
8.950	0.20	0.23	0.26	0.29	0.33
9.200	0.37	0.41	0.45	0.49	0.54
9.450	0.58	0.62	0.67	0.71	0.76
9.700	0.81	0.85	0.90	0.95	1.00
9.950	1.06	1.12	1.18	1.24	1.31
10.200	1.38	1.45	1.53	1.62	1.71
10.450	1.80	1.90	2.01	2.12	2.24
10.700	2.37	2.50	2.64	2.79	2.95
10.950	3.12	3.31	3.49	3.71	3.92
11.200	4.17	4.43	4.71	5.02	5.35
11.450	5.73	6.14	6.68	7.24	8.31
11.700	9.38	11.67	14.16	18.71	24.18
11.950	31.43	40.32	49.87	60.63	71.03
12.200	79.81	88.51	92.16	95.81	95.29
12.450	94.01	90.52	85.98	80.57	74.33
12.700	68.18	62.20	56.45	51.81	47.17
12.950	43.63	40.10	37.16	34.33	31.90
13.200	29.66	27.68	25.93	24.31	22.92
13.450	21.59	20.49	19.39	18.51	17.63
13.700	16.88	16.16	15.52	14.92	14.36
13.950	13.86	13.38	12.95	12.53	12.15
14.200	11.78	11.44	11.10	10.79	10.49
14.450	10.22	9.97	9.74	9.55	9.37
14.700	9.22	9.07	8.94	8.81	8.69
14.950	8.58	8.47	8.37	8.27	8.17
15.200	8.08	7.98	7.89	7.80	7.72
15.450	7.63	7.54	7.46	7.37	7.29
15.700	7.21	7.12	7.04	6.96	6.87
15.950	6.79	6.71	6.62	6.54	6.46
16.200	6.38	6.30	6.23	6.15	6.08
16.450	6.02	5.95	5.89	5.84	5.79
16.700	5.73	5.69	5.64	5.60	5.56
16.950	5.53	5.49	5.45	5.42	5.38
17.200	5.35	5.32	5.28	5.25	5.22
17.450	5.19	5.16	5.13	5.10	5.07
17.700	5.04	5.01	4.98	4.95	4.92

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: E-1
 Scenario: 2YR-24HR

Return Event: 2 years
 Storm Event: 2YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
17.950	4.89	4.86	4.83	4.80	4.77
18.200	4.74	4.71	4.68	4.65	4.62
18.450	4.59	4.56	4.53	4.50	4.47
18.700	4.44	4.41	4.38	4.35	4.32
18.950	4.29	4.26	4.23	4.20	4.17
19.200	4.14	4.11	4.08	4.05	4.02
19.450	3.99	3.96	3.93	3.90	3.87
19.700	3.84	3.81	3.78	3.75	3.72
19.950	3.69	3.66	3.63	3.60	3.57
20.200	3.54	3.51	3.48	3.46	3.43
20.450	3.41	3.39	3.37	3.35	3.33
20.700	3.32	3.30	3.29	3.28	3.27
20.950	3.26	3.25	3.24	3.23	3.22
21.200	3.21	3.21	3.20	3.19	3.19
21.450	3.18	3.17	3.17	3.16	3.15
21.700	3.15	3.14	3.14	3.13	3.12
21.950	3.12	3.11	3.11	3.10	3.09
22.200	3.09	3.08	3.08	3.07	3.06
22.450	3.06	3.05	3.05	3.04	3.04
22.700	3.03	3.02	3.02	3.01	3.01
22.950	3.00	2.99	2.99	2.98	2.98
23.200	2.97	2.97	2.96	2.95	2.95
23.450	2.94	2.94	2.93	2.92	2.92
23.700	2.91	2.91	2.90	2.90	2.89
23.950	2.88	2.87	(N/A)	(N/A)	(N/A)

Subsection: Unit Hydrograph Summary

Label: E-1

Scenario: 10YR-24HR

Return Event: 10 years

Storm Event: 10YR-24HR

Storm Event	10YR-24HR
Return Event	10 years
Duration	24.000 hours
Depth	5.7 in
Time of Concentration (Composite)	0.813 hours
Area (User Defined)	81.82 acres
Computational Time Increment	0.108 hours
Time to Peak (Computed)	12.358 hours
Flow (Peak, Computed)	185.52 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.350 hours
Flow (Peak Interpolated Output)	184.63 ft ³ /s
Drainage Area	
SCS CN (Composite)	81.55
Area (User Defined)	81.82 acres
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	1,088,913 ft ³
Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,077,928 ft ³
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.813 hours
Computational Time Increment	0.108 hours
Unit Hydrograph Shape Factor	483.43
K Factor	0.75
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	114.03 ft ³ /s
Unit peak time, Tp	0.542 hours
Unit receding limb, Tr	2.168 hours
Total unit time, Tb	2.710 hours

Subsection: Unit Hydrograph (Hydrograph Table)
Label: E-1
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Storm Event	10YR-24HR
Return Event	10 years
Duration	24.000 hours
Depth	5.7 in
Time of Concentration (Composite)	0.813 hours
Area (User Defined)	81.82 acres

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
6.050	0.00	0.00	0.00	0.01	0.01
6.300	0.01	0.02	0.03	0.05	0.06
6.550	0.08	0.10	0.13	0.15	0.18
6.800	0.21	0.24	0.28	0.31	0.35
7.050	0.38	0.42	0.46	0.50	0.54
7.300	0.58	0.62	0.66	0.71	0.75
7.550	0.79	0.84	0.88	0.92	0.97
7.800	1.02	1.06	1.11	1.16	1.20
8.050	1.25	1.30	1.35	1.40	1.45
8.300	1.50	1.56	1.62	1.68	1.74
8.550	1.81	1.88	1.96	2.04	2.12
8.800	2.21	2.30	2.39	2.49	2.58
9.050	2.69	2.79	2.90	3.01	3.11
9.300	3.22	3.33	3.44	3.54	3.65
9.550	3.75	3.85	3.94	4.04	4.14
9.800	4.24	4.34	4.46	4.57	4.70
10.050	4.84	4.98	5.13	5.29	5.47
10.300	5.65	5.86	6.06	6.29	6.52
10.550	6.77	7.03	7.30	7.59	7.90
10.800	8.23	8.56	8.93	9.31	9.73
11.050	10.15	10.63	11.11	11.65	12.22
11.300	12.84	13.52	14.25	15.06	15.95
11.550	17.11	18.31	20.59	22.88	27.64
11.800	32.82	41.94	52.85	66.99	84.12
12.050	102.29	122.38	141.66	157.41	172.99
12.300	178.81	184.63	182.62	179.20	171.72
12.550	162.34	151.47	139.19	127.17	115.65
12.800	104.60	95.72	86.86	80.12	73.39
13.050	67.81	62.46	57.87	53.65	49.91
13.300	46.64	43.60	41.01	38.51	36.48
13.550	34.44	32.81	31.17	29.79	28.46
13.800	27.28	26.19	25.18	24.26	23.39
14.050	22.61	21.84	21.16	20.48	19.87
14.300	19.26	18.71	18.17	17.68	17.23
14.550	16.83	16.49	16.17	15.90	15.64
14.800	15.41	15.18	14.97	14.77	14.58
15.050	14.40	14.22	14.05	13.88	13.72
15.300	13.56	13.40	13.25	13.10	12.95
15.550	12.80	12.65	12.50	12.36	12.21

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: E-1
 Scenario: 10YR-24HR

Return Event: 10 years
 Storm Event: 10YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
15.800	12.06	11.92	11.77	11.63	11.48
16.050	11.34	11.19	11.05	10.91	10.78
16.300	10.65	10.52	10.40	10.28	10.17
16.550	10.07	9.97	9.88	9.79	9.71
16.800	9.63	9.56	9.49	9.42	9.36
17.050	9.29	9.23	9.17	9.11	9.06
17.300	9.00	8.94	8.89	8.83	8.78
17.550	8.73	8.67	8.62	8.57	8.52
17.800	8.47	8.41	8.36	8.31	8.26
18.050	8.21	8.16	8.10	8.05	8.00
18.300	7.95	7.90	7.85	7.80	7.74
18.550	7.69	7.64	7.59	7.54	7.49
18.800	7.43	7.38	7.33	7.28	7.23
19.050	7.18	7.12	7.07	7.02	6.97
19.300	6.92	6.87	6.81	6.76	6.71
19.550	6.66	6.61	6.56	6.50	6.45
19.800	6.40	6.35	6.29	6.24	6.19
20.050	6.14	6.09	6.03	5.98	5.94
20.300	5.89	5.84	5.80	5.76	5.72
20.550	5.69	5.66	5.63	5.60	5.58
20.800	5.56	5.54	5.52	5.50	5.48
21.050	5.47	5.45	5.44	5.43	5.41
21.300	5.40	5.39	5.37	5.36	5.35
21.550	5.34	5.33	5.32	5.31	5.30
21.800	5.29	5.28	5.27	5.25	5.24
22.050	5.23	5.22	5.21	5.20	5.19
22.300	5.18	5.17	5.16	5.15	5.14
22.550	5.13	5.12	5.11	5.10	5.09
22.800	5.08	5.07	5.06	5.05	5.04
23.050	5.03	5.02	5.01	5.00	4.99
23.300	4.98	4.97	4.96	4.95	4.94
23.550	4.93	4.92	4.91	4.90	4.89
23.800	4.88	4.87	4.86	4.85	4.82

Subsection: Unit Hydrograph Summary
Label: E-1
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Storm Event	50YR-24HR
Return Event	50 years
Duration	24.000 hours
Depth	8.1 in
Time of Concentration (Composite)	0.813 hours
Area (User Defined)	81.82 acres
Computational Time Increment	0.108 hours
Time to Peak (Computed)	12.358 hours
Flow (Peak, Computed)	296.88 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.350 hours
Flow (Peak Interpolated Output)	295.63 ft ³ /s
Drainage Area	
SCS CN (Composite)	81.55
Area (User Defined)	81.82 acres
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.9 in
Runoff Volume (Pervious)	1,755,505 ft ³
Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,739,221 ft ³
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.813 hours
Computational Time Increment	0.108 hours
Unit Hydrograph Shape Factor	483.43
K Factor	0.75
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	114.03 ft ³ /s
Unit peak time, Tp	0.542 hours
Unit receding limb, Tr	2.168 hours
Total unit time, Tb	2.710 hours

Subsection: Unit Hydrograph (Hydrograph Table)
Label: E-1
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Storm Event	50YR-24HR
Return Event	50 years
Duration	24.000 hours
Depth	8.1 in
Time of Concentration (Composite)	0.813 hours
Area (User Defined)	81.82 acres

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
4.600	0.00	0.00	0.00	0.01	0.01
4.850	0.02	0.03	0.04	0.06	0.08
5.100	0.10	0.14	0.17	0.20	0.24
5.350	0.29	0.33	0.38	0.43	0.48
5.600	0.53	0.58	0.64	0.70	0.76
5.850	0.81	0.88	0.94	1.00	1.06
6.100	1.12	1.19	1.25	1.32	1.39
6.350	1.45	1.52	1.59	1.66	1.73
6.600	1.79	1.86	1.94	2.01	2.08
6.850	2.15	2.22	2.30	2.37	2.44
7.100	2.52	2.59	2.67	2.74	2.82
7.350	2.90	2.97	3.05	3.13	3.21
7.600	3.29	3.36	3.44	3.52	3.60
7.850	3.68	3.76	3.84	3.92	4.01
8.100	4.09	4.17	4.26	4.35	4.45
8.350	4.55	4.66	4.76	4.89	5.01
8.600	5.15	5.30	5.45	5.61	5.77
8.850	5.94	6.12	6.30	6.49	6.69
9.100	6.88	7.08	7.29	7.49	7.69
9.350	7.88	8.07	8.26	8.44	8.61
9.600	8.77	8.94	9.10	9.26	9.43
9.850	9.60	9.79	9.98	10.20	10.43
10.100	10.67	10.94	11.22	11.54	11.85
10.350	12.21	12.57	12.97	13.37	13.81
10.600	14.27	14.75	15.26	15.80	16.37
10.850	16.96	17.60	18.25	18.98	19.71
11.100	20.53	21.36	22.29	23.25	24.32
11.350	25.47	26.71	28.10	29.59	31.57
11.600	33.59	37.45	41.30	49.23	57.84
11.850	72.75	90.52	113.28	140.66	169.50
12.100	201.02	231.18	255.30	279.18	287.41
12.350	295.63	291.51	285.18	272.56	256.98
12.600	239.21	219.33	199.96	181.54	163.88
12.850	149.73	135.61	124.90	114.19	105.34
13.100	96.85	89.59	82.93	77.02	71.86
13.350	67.06	62.99	59.07	55.87	52.68
13.600	50.12	47.57	45.41	43.34	41.50
13.850	39.79	38.23	36.80	35.45	34.25
14.100	33.06	32.01	30.95	30.01	29.07

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: E-1
 Scenario: 50YR-24HR

Return Event: 50 years
 Storm Event: 50YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
14.350	28.22	27.39	26.65	25.96	25.35
14.600	24.82	24.33	23.92	23.52	23.17
14.850	22.82	22.51	22.20	21.91	21.63
15.100	21.36	21.10	20.85	20.60	20.36
15.350	20.12	19.88	19.65	19.42	19.20
15.600	18.97	18.75	18.53	18.31	18.09
15.850	17.86	17.64	17.42	17.21	16.99
16.100	16.77	16.56	16.35	16.14	15.94
16.350	15.75	15.56	15.39	15.22	15.06
16.600	14.92	14.78	14.65	14.53	14.41
16.850	14.30	14.19	14.09	13.99	13.90
17.100	13.80	13.71	13.62	13.54	13.45
17.350	13.37	13.28	13.20	13.12	13.04
17.600	12.96	12.88	12.80	12.72	12.64
17.850	12.56	12.48	12.41	12.33	12.25
18.100	12.17	12.10	12.02	11.94	11.86
18.350	11.79	11.71	11.63	11.55	11.47
18.600	11.40	11.32	11.24	11.16	11.09
18.850	11.01	10.93	10.85	10.77	10.70
19.100	10.62	10.54	10.46	10.39	10.31
19.350	10.23	10.15	10.08	10.00	9.92
19.600	9.84	9.77	9.69	9.61	9.53
19.850	9.45	9.37	9.30	9.22	9.14
20.100	9.06	8.98	8.91	8.84	8.77
20.350	8.70	8.64	8.58	8.52	8.47
20.600	8.42	8.38	8.34	8.30	8.27
20.850	8.24	8.21	8.18	8.16	8.13
21.100	8.11	8.09	8.07	8.05	8.03
21.350	8.01	7.99	7.98	7.96	7.94
21.600	7.92	7.91	7.89	7.87	7.86
21.850	7.84	7.83	7.81	7.80	7.78
22.100	7.76	7.75	7.73	7.72	7.70
22.350	7.69	7.67	7.66	7.64	7.62
22.600	7.61	7.59	7.58	7.56	7.55
22.850	7.53	7.52	7.50	7.49	7.47
23.100	7.45	7.44	7.42	7.41	7.39
23.350	7.38	7.36	7.35	7.33	7.32
23.600	7.30	7.29	7.27	7.25	7.24
23.850	7.22	7.21	7.19	7.15	(N/A)

Subsection: Unit Hydrograph Summary
Label: E-1
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Storm Event	100YR-24HR
Return Event	100 years
Duration	24.000 hours
Depth	9.3 in
Time of Concentration (Composite)	0.813 hours
Area (User Defined)	81.82 acres
Computational Time Increment	0.108 hours
Time to Peak (Computed)	12.358 hours
Flow (Peak, Computed)	350.22 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.350 hours
Flow (Peak Interpolated Output)	348.80 ft ³ /s
Drainage Area	
SCS CN (Composite)	81.55
Area (User Defined)	81.82 acres
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.0 in
Runoff Volume (Pervious)	2,081,138 ft ³
Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,062,348 ft ³
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.813 hours
Computational Time Increment	0.108 hours
Unit Hydrograph Shape Factor	483.43
K Factor	0.75
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	114.03 ft ³ /s
Unit peak time, Tp	0.542 hours
Unit receding limb, Tr	2.168 hours
Total unit time, Tb	2.710 hours

Subsection: Unit Hydrograph (Hydrograph Table)
Label: E-1
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Storm Event	100YR-24HR
Return Event	100 years
Duration	24.000 hours
Depth	9.3 in
Time of Concentration (Composite)	0.813 hours
Area (User Defined)	81.82 acres

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
4.150	0.00	0.00	0.00	0.01	0.02
4.400	0.03	0.04	0.06	0.08	0.11
4.650	0.14	0.17	0.21	0.26	0.30
4.900	0.35	0.41	0.46	0.52	0.58
5.150	0.64	0.70	0.77	0.84	0.90
5.400	0.97	1.04	1.11	1.18	1.26
5.650	1.33	1.41	1.48	1.56	1.63
5.900	1.71	1.79	1.87	1.95	2.03
6.150	2.11	2.19	2.28	2.36	2.44
6.400	2.52	2.61	2.69	2.78	2.87
6.650	2.95	3.04	3.13	3.22	3.30
6.900	3.39	3.48	3.57	3.66	3.75
7.150	3.84	3.94	4.03	4.12	4.21
7.400	4.31	4.40	4.49	4.59	4.68
7.650	4.78	4.87	4.97	5.06	5.16
7.900	5.26	5.35	5.45	5.55	5.65
8.150	5.75	5.86	5.96	6.08	6.20
8.400	6.33	6.47	6.62	6.77	6.94
8.650	7.12	7.31	7.51	7.71	7.93
8.900	8.14	8.37	8.60	8.85	9.09
9.150	9.34	9.59	9.83	10.08	10.32
9.400	10.55	10.77	10.99	11.19	11.39
9.650	11.58	11.77	11.96	12.16	12.36
9.900	12.59	12.82	13.08	13.36	13.65
10.150	13.98	14.31	14.69	15.07	15.51
10.400	15.94	16.43	16.92	17.45	18.00
10.650	18.59	19.20	19.85	20.54	21.25
10.900	22.03	22.82	23.69	24.57	25.56
11.150	26.56	27.67	28.83	30.11	31.50
11.400	32.98	34.64	36.43	38.80	41.22
11.650	45.83	50.45	59.90	70.17	87.86
11.900	108.92	135.81	168.09	202.01	238.97
12.150	274.29	302.37	330.15	339.48	348.80
12.400	343.63	335.86	320.75	302.18	281.09
12.650	257.57	234.67	212.96	192.13	175.46
12.900	158.83	146.22	133.61	123.20	113.21
13.150	104.67	96.84	89.90	83.84	78.21
13.400	73.43	68.83	65.08	61.33	58.33
13.650	55.34	52.82	50.38	48.24	46.24

Subsection: Unit Hydrograph (Hydrograph Table)
Label: E-1
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
13.900	44.41	42.74	41.17	39.75	38.37
14.150	37.14	35.91	34.81	33.71	32.72
14.400	31.75	30.89	30.08	29.37	28.76
14.650	28.19	27.72	27.25	26.84	26.43
14.900	26.07	25.71	25.38	25.05	24.74
15.150	24.44	24.14	23.86	23.57	23.30
15.400	23.02	22.76	22.49	22.23	21.97
15.650	21.71	21.45	21.19	20.93	20.68
15.900	20.42	20.17	19.91	19.66	19.41
16.150	19.16	18.92	18.67	18.45	18.22
16.400	18.01	17.80	17.61	17.43	17.26
16.650	17.10	16.94	16.80	16.67	16.54
16.900	16.42	16.30	16.18	16.07	15.97
17.150	15.86	15.76	15.66	15.56	15.46
17.400	15.36	15.27	15.17	15.08	14.98
17.650	14.89	14.80	14.71	14.62	14.53
17.900	14.43	14.34	14.25	14.16	14.07
18.150	13.98	13.89	13.80	13.71	13.62
18.400	13.53	13.44	13.35	13.26	13.17
18.650	13.08	12.99	12.90	12.81	12.72
18.900	12.63	12.54	12.45	12.36	12.27
19.150	12.18	12.09	12.00	11.91	11.82
19.400	11.73	11.64	11.55	11.46	11.37
19.650	11.28	11.19	11.10	11.01	10.92
19.900	10.83	10.74	10.65	10.56	10.47
20.150	10.38	10.29	10.21	10.13	10.05
20.400	9.98	9.91	9.84	9.78	9.73
20.650	9.68	9.63	9.59	9.55	9.52
20.900	9.48	9.45	9.42	9.39	9.37
21.150	9.34	9.32	9.30	9.27	9.25
21.400	9.23	9.21	9.19	9.17	9.15
21.650	9.13	9.11	9.09	9.08	9.06
21.900	9.04	9.02	9.00	8.98	8.97
22.150	8.95	8.93	8.91	8.89	8.88
22.400	8.86	8.84	8.82	8.80	8.79
22.650	8.77	8.75	8.73	8.71	8.70
22.900	8.68	8.66	8.64	8.62	8.61
23.150	8.59	8.57	8.55	8.54	8.52
23.400	8.50	8.48	8.46	8.45	8.43
23.650	8.41	8.39	8.37	8.36	8.34
23.900	8.32	8.30	8.26	(N/A)	(N/A)

Subsection: Unit Hydrograph Summary
Label: P-A
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Storm Event	2YR-24HR
Return Event	2 years
Duration	24.000 hours
Depth	3.7 in
Time of Concentration (Composite)	0.260 hours
Area (User Defined)	12.29 acres
Computational Time Increment	0.035 hours
Time to Peak (Computed)	12.029 hours
Flow (Peak, Computed)	36.68 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.050 hours
Flow (Peak Interpolated Output)	36.53 ft ³ /s
Drainage Area	
SCS CN (Composite)	88.92
Area (User Defined)	12.29 acres
Maximum Retention (Pervious)	1.2 in
Maximum Retention (Pervious, 20 percent)	0.2 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.5 in
Runoff Volume (Pervious)	113,521 ft ³
Hydrograph Volume (Area under Hydrograph curve)	
Volume	113,177 ft ³
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.260 hours
Computational Time Increment	0.035 hours
Unit Hydrograph Shape Factor	483.43
K Factor	0.75
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	53.56 ft ³ /s
Unit peak time, Tp	0.173 hours
Unit receding limb, Tr	0.693 hours
Total unit time, Tb	0.867 hours

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-A
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Storm Event	2YR-24HR
Return Event	2 years
Duration	24.000 hours
Depth	3.7 in
Time of Concentration (Composite)	0.260 hours
Area (User Defined)	12.29 acres

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
5.350	0.00	0.00	0.00	0.01	0.01
5.600	0.01	0.01	0.02	0.02	0.03
5.850	0.03	0.03	0.04	0.04	0.05
6.100	0.05	0.06	0.06	0.06	0.07
6.350	0.07	0.08	0.08	0.09	0.09
6.600	0.09	0.10	0.10	0.11	0.11
6.850	0.12	0.12	0.13	0.13	0.14
7.100	0.14	0.15	0.15	0.16	0.16
7.350	0.17	0.17	0.18	0.18	0.19
7.600	0.19	0.20	0.20	0.21	0.21
7.850	0.22	0.22	0.23	0.23	0.24
8.100	0.25	0.25	0.26	0.27	0.28
8.350	0.29	0.30	0.31	0.32	0.33
8.600	0.34	0.36	0.37	0.38	0.40
8.850	0.41	0.42	0.44	0.45	0.46
9.100	0.48	0.49	0.50	0.51	0.52
9.350	0.53	0.54	0.54	0.55	0.56
9.600	0.57	0.58	0.59	0.61	0.63
9.850	0.65	0.67	0.69	0.71	0.74
10.100	0.76	0.79	0.82	0.85	0.88
10.350	0.92	0.95	0.99	1.02	1.06
10.600	1.10	1.15	1.20	1.25	1.31
10.850	1.37	1.43	1.49	1.56	1.63
11.100	1.70	1.79	1.90	2.02	2.15
11.350	2.29	2.44	2.60	2.77	3.06
11.600	3.65	4.73	6.54	9.08	12.52
11.850	17.06	23.19	30.02	35.16	36.53
12.100	33.76	27.53	21.05	15.84	12.29
12.350	9.95	8.32	7.12	6.21	5.47
12.600	4.88	4.38	4.01	3.72	3.50
12.850	3.34	3.20	3.08	2.96	2.85
13.100	2.75	2.65	2.57	2.49	2.43
13.350	2.36	2.30	2.24	2.18	2.13
13.600	2.07	2.02	1.97	1.92	1.88
13.850	1.83	1.79	1.75	1.71	1.67
14.100	1.63	1.60	1.57	1.54	1.52
14.350	1.51	1.49	1.47	1.46	1.44
14.600	1.43	1.41	1.40	1.39	1.37
14.850	1.36	1.34	1.33	1.31	1.30

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: P-A
 Scenario: 2YR-24HR

Return Event: 2 years
 Storm Event: 2YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
15.100	1.29	1.27	1.26	1.24	1.23
15.350	1.21	1.20	1.19	1.17	1.16
15.600	1.14	1.13	1.11	1.10	1.08
15.850	1.07	1.06	1.04	1.03	1.01
16.100	1.00	0.99	0.98	0.97	0.96
16.350	0.95	0.95	0.94	0.94	0.93
16.600	0.93	0.92	0.92	0.91	0.91
16.850	0.90	0.90	0.89	0.89	0.88
17.100	0.88	0.87	0.87	0.86	0.86
17.350	0.85	0.85	0.84	0.83	0.83
17.600	0.82	0.82	0.81	0.81	0.80
17.850	0.80	0.79	0.79	0.78	0.78
18.100	0.77	0.77	0.76	0.76	0.75
18.350	0.75	0.74	0.74	0.73	0.73
18.600	0.72	0.72	0.71	0.71	0.70
18.850	0.69	0.69	0.68	0.68	0.67
19.100	0.67	0.66	0.66	0.65	0.65
19.350	0.64	0.64	0.63	0.63	0.62
19.600	0.62	0.61	0.61	0.60	0.60
19.850	0.59	0.58	0.58	0.57	0.57
20.100	0.56	0.56	0.56	0.55	0.55
20.350	0.55	0.55	0.55	0.55	0.55
20.600	0.54	0.54	0.54	0.54	0.54
20.850	0.54	0.54	0.54	0.54	0.54
21.100	0.53	0.53	0.53	0.53	0.53
21.350	0.53	0.53	0.53	0.53	0.53
21.600	0.52	0.52	0.52	0.52	0.52
21.850	0.52	0.52	0.52	0.52	0.51
22.100	0.51	0.51	0.51	0.51	0.51
22.350	0.51	0.51	0.51	0.51	0.50
22.600	0.50	0.50	0.50	0.50	0.50
22.850	0.50	0.50	0.50	0.50	0.49
23.100	0.49	0.49	0.49	0.49	0.49
23.350	0.49	0.49	0.49	0.48	0.48
23.600	0.48	0.48	0.48	0.48	0.48
23.850	0.48	0.48	0.48	0.47	(N/A)

Subsection: Unit Hydrograph Summary

Label: P-A

Scenario: 10YR-24HR

Return Event: 10 years

Storm Event: 10YR-24HR

Storm Event	10YR-24HR
Return Event	10 years
Duration	24.000 hours
Depth	5.7 in
Time of Concentration (Composite)	0.260 hours
Area (User Defined)	12.29 acres
Computational Time Increment	0.035 hours
Time to Peak (Computed)	12.029 hours
Flow (Peak, Computed)	62.50 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.050 hours
Flow (Peak Interpolated Output)	62.03 ft ³ /s
Drainage Area	
SCS CN (Composite)	88.92
Area (User Defined)	12.29 acres
Maximum Retention (Pervious)	1.2 in
Maximum Retention (Pervious, 20 percent)	0.2 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.4 in
Runoff Volume (Pervious)	197,927 ft ³
Hydrograph Volume (Area under Hydrograph curve)	
Volume	197,380 ft ³
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.260 hours
Computational Time Increment	0.035 hours
Unit Hydrograph Shape Factor	483.43
K Factor	0.75
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	53.56 ft ³ /s
Unit peak time, Tp	0.173 hours
Unit receding limb, Tr	0.693 hours
Total unit time, Tb	0.867 hours

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-A
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Storm Event	10YR-24HR
Return Event	10 years
Duration	24.000 hours
Depth	5.7 in
Time of Concentration (Composite)	0.260 hours
Area (User Defined)	12.29 acres

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
3.800	0.00	0.00	0.01	0.01	0.01
4.050	0.02	0.03	0.03	0.04	0.04
4.300	0.05	0.06	0.06	0.07	0.08
4.550	0.08	0.09	0.10	0.10	0.11
4.800	0.12	0.12	0.13	0.14	0.15
5.050	0.15	0.16	0.17	0.17	0.18
5.300	0.19	0.20	0.21	0.21	0.22
5.550	0.23	0.24	0.24	0.25	0.26
5.800	0.27	0.28	0.29	0.29	0.30
6.050	0.31	0.32	0.33	0.34	0.34
6.300	0.35	0.36	0.37	0.38	0.39
6.550	0.40	0.40	0.41	0.42	0.43
6.800	0.44	0.45	0.46	0.47	0.48
7.050	0.48	0.49	0.50	0.51	0.52
7.300	0.53	0.54	0.55	0.56	0.57
7.550	0.58	0.59	0.59	0.60	0.61
7.800	0.62	0.63	0.64	0.65	0.66
8.050	0.67	0.68	0.69	0.71	0.73
8.300	0.75	0.77	0.79	0.81	0.84
8.550	0.86	0.89	0.91	0.94	0.96
8.800	0.99	1.02	1.05	1.07	1.10
9.050	1.13	1.15	1.18	1.20	1.22
9.300	1.23	1.24	1.25	1.26	1.27
9.550	1.29	1.30	1.32	1.34	1.37
9.800	1.41	1.45	1.49	1.53	1.57
10.050	1.62	1.67	1.72	1.77	1.83
10.300	1.89	1.96	2.02	2.09	2.16
10.550	2.23	2.30	2.39	2.48	2.58
10.800	2.68	2.79	2.90	3.02	3.14
11.050	3.26	3.40	3.56	3.75	3.97
11.300	4.21	4.47	4.74	5.02	5.33
11.550	5.84	6.93	8.89	12.17	16.71
11.800	22.73	30.53	40.84	52.08	60.27
12.050	62.03	56.92	46.19	35.18	26.40
12.300	20.41	16.48	13.73	11.71	10.20
12.550	8.96	7.98	7.16	6.54	6.06
12.800	5.71	5.44	5.21	5.01	4.82
13.050	4.64	4.47	4.31	4.17	4.05
13.300	3.94	3.83	3.73	3.63	3.54

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-A
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
13.550	3.45	3.36	3.27	3.19	3.11
13.800	3.04	2.97	2.90	2.83	2.76
14.050	2.70	2.64	2.58	2.53	2.49
14.300	2.46	2.43	2.40	2.38	2.35
14.550	2.33	2.31	2.28	2.26	2.24
14.800	2.21	2.19	2.17	2.14	2.12
15.050	2.10	2.07	2.05	2.03	2.00
15.300	1.98	1.96	1.93	1.91	1.89
15.550	1.86	1.84	1.82	1.79	1.77
15.800	1.75	1.72	1.70	1.68	1.65
16.050	1.63	1.61	1.59	1.57	1.56
16.300	1.54	1.53	1.52	1.52	1.51
16.550	1.50	1.49	1.48	1.47	1.46
16.800	1.46	1.45	1.44	1.43	1.42
17.050	1.41	1.41	1.40	1.39	1.38
17.300	1.37	1.36	1.36	1.35	1.34
17.550	1.33	1.32	1.31	1.31	1.30
17.800	1.29	1.28	1.27	1.26	1.26
18.050	1.25	1.24	1.23	1.22	1.21
18.300	1.21	1.20	1.19	1.18	1.17
18.550	1.16	1.15	1.15	1.14	1.13
18.800	1.12	1.11	1.10	1.10	1.09
19.050	1.08	1.07	1.06	1.05	1.05
19.300	1.04	1.03	1.02	1.01	1.00
19.550	0.99	0.99	0.98	0.97	0.96
19.800	0.95	0.94	0.94	0.93	0.92
20.050	0.91	0.90	0.90	0.89	0.89
20.300	0.88	0.88	0.88	0.88	0.87
20.550	0.87	0.87	0.87	0.87	0.87
20.800	0.86	0.86	0.86	0.86	0.86
21.050	0.86	0.85	0.85	0.85	0.85
21.300	0.85	0.85	0.84	0.84	0.84
21.550	0.84	0.84	0.84	0.83	0.83
21.800	0.83	0.83	0.83	0.83	0.82
22.050	0.82	0.82	0.82	0.82	0.82
22.300	0.81	0.81	0.81	0.81	0.81
22.550	0.81	0.80	0.80	0.80	0.80
22.800	0.80	0.80	0.79	0.79	0.79
23.050	0.79	0.79	0.79	0.78	0.78
23.300	0.78	0.78	0.78	0.78	0.77
23.550	0.77	0.77	0.77	0.77	0.77
23.800	0.76	0.76	0.76	0.76	0.76

Subsection: Unit Hydrograph Summary
Label: P-A
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Storm Event	50YR-24HR
Return Event	50 years
Duration	24.000 hours
Depth	8.1 in
Time of Concentration (Composite)	0.260 hours
Area (User Defined)	12.29 acres
Computational Time Increment	0.035 hours
Time to Peak (Computed)	12.029 hours
Flow (Peak, Computed)	93.47 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.050 hours
Flow (Peak Interpolated Output)	92.60 ft ³ /s
Drainage Area	
SCS CN (Composite)	88.92
Area (User Defined)	12.29 acres
Maximum Retention (Pervious)	1.2 in
Maximum Retention (Pervious, 20 percent)	0.2 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.8 in
Runoff Volume (Pervious)	302,708 ft ³
Hydrograph Volume (Area under Hydrograph curve)	
Volume	301,915 ft ³
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.260 hours
Computational Time Increment	0.035 hours
Unit Hydrograph Shape Factor	483.43
K Factor	0.75
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	53.56 ft ³ /s
Unit peak time, Tp	0.173 hours
Unit receding limb, Tr	0.693 hours
Total unit time, Tb	0.867 hours

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-A
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Storm Event	50YR-24HR
Return Event	50 years
Duration	24.000 hours
Depth	8.1 in
Time of Concentration (Composite)	0.260 hours
Area (User Defined)	12.29 acres

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
2.800	0.00	0.00	0.01	0.01	0.02
3.050	0.03	0.04	0.05	0.06	0.07
3.300	0.08	0.09	0.10	0.11	0.12
3.550	0.13	0.14	0.15	0.17	0.18
3.800	0.19	0.20	0.21	0.22	0.23
4.050	0.24	0.25	0.26	0.27	0.28
4.300	0.29	0.30	0.31	0.33	0.34
4.550	0.35	0.36	0.37	0.39	0.40
4.800	0.41	0.42	0.43	0.45	0.46
5.050	0.47	0.48	0.50	0.51	0.52
5.300	0.53	0.55	0.56	0.57	0.59
5.550	0.60	0.61	0.62	0.64	0.65
5.800	0.66	0.68	0.69	0.70	0.72
6.050	0.73	0.74	0.76	0.77	0.78
6.300	0.80	0.81	0.82	0.84	0.85
6.550	0.87	0.88	0.89	0.91	0.92
6.800	0.93	0.95	0.96	0.98	0.99
7.050	1.00	1.02	1.03	1.04	1.06
7.300	1.07	1.09	1.10	1.11	1.13
7.550	1.14	1.16	1.17	1.18	1.20
7.800	1.21	1.23	1.24	1.25	1.27
8.050	1.28	1.30	1.32	1.35	1.38
8.300	1.41	1.44	1.48	1.52	1.56
8.550	1.60	1.64	1.68	1.73	1.77
8.800	1.81	1.85	1.90	1.94	1.99
9.050	2.03	2.07	2.11	2.14	2.16
9.300	2.18	2.20	2.21	2.23	2.24
9.550	2.25	2.27	2.30	2.34	2.38
9.800	2.44	2.50	2.56	2.63	2.70
10.050	2.77	2.85	2.93	3.01	3.10
10.300	3.20	3.30	3.41	3.51	3.62
10.550	3.73	3.85	3.98	4.12	4.27
10.800	4.43	4.60	4.78	4.95	5.14
11.050	5.33	5.54	5.79	6.08	6.42
11.300	6.79	7.19	7.61	8.04	8.50
11.550	9.30	10.98	14.02	19.08	26.04
11.800	35.17	46.86	62.15	78.64	90.42
12.050	92.60	84.64	68.52	52.09	39.03
12.300	30.12	24.27	20.20	17.20	14.96

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-A
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
12.550	13.13	11.68	10.48	9.56	8.86
12.800	8.34	7.95	7.61	7.32	7.03
13.050	6.77	6.52	6.29	6.09	5.90
13.300	5.74	5.59	5.44	5.30	5.16
13.550	5.02	4.89	4.76	4.64	4.53
13.800	4.43	4.32	4.22	4.12	4.02
14.050	3.93	3.84	3.76	3.69	3.63
14.300	3.58	3.54	3.50	3.46	3.42
14.550	3.39	3.35	3.32	3.29	3.25
14.800	3.22	3.18	3.15	3.11	3.08
15.050	3.05	3.01	2.98	2.94	2.91
15.300	2.88	2.84	2.81	2.77	2.74
15.550	2.71	2.67	2.64	2.60	2.57
15.800	2.54	2.50	2.47	2.43	2.40
16.050	2.36	2.33	2.30	2.28	2.26
16.300	2.24	2.23	2.21	2.20	2.19
16.550	2.17	2.16	2.15	2.14	2.13
16.800	2.11	2.10	2.09	2.08	2.06
17.050	2.05	2.04	2.03	2.02	2.00
17.300	1.99	1.98	1.97	1.95	1.94
17.550	1.93	1.92	1.91	1.89	1.88
17.800	1.87	1.86	1.84	1.83	1.82
18.050	1.81	1.80	1.78	1.77	1.76
18.300	1.75	1.73	1.72	1.71	1.70
18.550	1.69	1.67	1.66	1.65	1.64
18.800	1.62	1.61	1.60	1.59	1.58
19.050	1.56	1.55	1.54	1.53	1.51
19.300	1.50	1.49	1.48	1.47	1.45
19.550	1.44	1.43	1.42	1.40	1.39
19.800	1.38	1.37	1.35	1.34	1.33
20.050	1.32	1.31	1.30	1.29	1.28
20.300	1.28	1.28	1.27	1.27	1.27
20.550	1.26	1.26	1.26	1.26	1.25
20.800	1.25	1.25	1.25	1.24	1.24
21.050	1.24	1.24	1.23	1.23	1.23
21.300	1.23	1.22	1.22	1.22	1.22
21.550	1.21	1.21	1.21	1.21	1.20
21.800	1.20	1.20	1.20	1.20	1.19
22.050	1.19	1.19	1.19	1.18	1.18
22.300	1.18	1.18	1.17	1.17	1.17
22.550	1.17	1.16	1.16	1.16	1.16
22.800	1.15	1.15	1.15	1.15	1.14
23.050	1.14	1.14	1.14	1.13	1.13
23.300	1.13	1.13	1.12	1.12	1.12
23.550	1.12	1.11	1.11	1.11	1.11
23.800	1.10	1.10	1.10	1.10	1.09

Subsection: Unit Hydrograph Summary
Label: P-A
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Storm Event	100YR-24HR
Return Event	100 years
Duration	24.000 hours
Depth	9.3 in
Time of Concentration (Composite)	0.260 hours
Area (User Defined)	12.29 acres
Computational Time Increment	0.035 hours
Time to Peak (Computed)	12.029 hours
Flow (Peak, Computed)	108.12 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.050 hours
Flow (Peak Interpolated Output)	107.06 ft ³ /s
Drainage Area	
SCS CN (Composite)	88.92
Area (User Defined)	12.29 acres
Maximum Retention (Pervious)	1.2 in
Maximum Retention (Pervious, 20 percent)	0.2 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.9 in
Runoff Volume (Pervious)	353,160 ft ³
Hydrograph Volume (Area under Hydrograph curve)	
Volume	352,251 ft ³
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.260 hours
Computational Time Increment	0.035 hours
Unit Hydrograph Shape Factor	483.43
K Factor	0.75
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	53.56 ft ³ /s
Unit peak time, Tp	0.173 hours
Unit receding limb, Tr	0.693 hours
Total unit time, Tb	0.867 hours

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-A
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Storm Event	100YR-24HR
Return Event	100 years
Duration	24.000 hours
Depth	9.3 in
Time of Concentration (Composite)	0.260 hours
Area (User Defined)	12.29 acres

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
2.450	0.00	0.00	0.00	0.01	0.02
2.700	0.03	0.04	0.05	0.06	0.08
2.950	0.09	0.10	0.11	0.13	0.14
3.200	0.15	0.17	0.18	0.19	0.20
3.450	0.22	0.23	0.24	0.26	0.27
3.700	0.28	0.29	0.31	0.32	0.33
3.950	0.34	0.35	0.37	0.38	0.39
4.200	0.41	0.42	0.43	0.45	0.46
4.450	0.47	0.49	0.50	0.52	0.53
4.700	0.55	0.56	0.57	0.59	0.60
4.950	0.62	0.63	0.65	0.66	0.68
5.200	0.69	0.71	0.72	0.74	0.75
5.450	0.77	0.78	0.80	0.81	0.83
5.700	0.85	0.86	0.88	0.89	0.91
5.950	0.92	0.94	0.95	0.97	0.99
6.200	1.00	1.02	1.03	1.05	1.06
6.450	1.08	1.10	1.11	1.13	1.14
6.700	1.16	1.18	1.19	1.21	1.22
6.950	1.24	1.26	1.27	1.29	1.30
7.200	1.32	1.34	1.35	1.37	1.38
7.450	1.40	1.42	1.43	1.45	1.46
7.700	1.48	1.50	1.51	1.53	1.54
7.950	1.56	1.58	1.59	1.61	1.64
8.200	1.67	1.70	1.74	1.78	1.83
8.450	1.88	1.92	1.97	2.02	2.07
8.700	2.12	2.17	2.22	2.27	2.32
8.950	2.37	2.43	2.48	2.53	2.57
9.200	2.60	2.63	2.65	2.67	2.69
9.450	2.70	2.72	2.73	2.75	2.78
9.700	2.82	2.88	2.94	3.01	3.09
9.950	3.17	3.25	3.33	3.42	3.51
10.200	3.61	3.72	3.84	3.96	4.08
10.450	4.20	4.33	4.46	4.59	4.74
10.700	4.91	5.09	5.28	5.47	5.68
10.950	5.89	6.10	6.32	6.57	6.86
11.200	7.20	7.60	8.03	8.50	8.98
11.450	9.48	10.02	10.94	12.91	16.47
11.700	22.37	30.48	41.07	54.60	72.24
11.950	91.21	104.69	107.06	97.76	79.08

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: P-A
 Scenario: 100YR-24HR

Return Event: 100 years
 Storm Event: 100YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
12.200	60.09	45.00	34.71	27.96	23.26
12.450	19.80	17.21	15.10	13.43	12.05
12.700	10.99	10.19	9.59	9.13	8.75
12.950	8.41	8.08	7.78	7.49	7.23
13.200	6.99	6.78	6.60	6.42	6.25
13.450	6.09	5.93	5.77	5.62	5.47
13.700	5.33	5.21	5.08	4.96	4.85
13.950	4.73	4.62	4.51	4.41	4.31
14.200	4.24	4.17	4.11	4.06	4.02
14.450	3.97	3.93	3.89	3.85	3.81
14.700	3.77	3.73	3.69	3.65	3.61
14.950	3.58	3.54	3.50	3.46	3.42
15.200	3.38	3.34	3.30	3.26	3.22
15.450	3.18	3.14	3.11	3.07	3.03
15.700	2.99	2.95	2.91	2.87	2.83
15.950	2.79	2.75	2.71	2.68	2.64
16.200	2.62	2.59	2.57	2.56	2.54
16.450	2.52	2.51	2.50	2.48	2.47
16.700	2.45	2.44	2.42	2.41	2.40
16.950	2.38	2.37	2.35	2.34	2.33
17.200	2.31	2.30	2.28	2.27	2.26
17.450	2.24	2.23	2.21	2.20	2.19
17.700	2.17	2.16	2.14	2.13	2.12
17.950	2.10	2.09	2.07	2.06	2.05
18.200	2.03	2.02	2.00	1.99	1.98
18.450	1.96	1.95	1.93	1.92	1.91
18.700	1.89	1.88	1.86	1.85	1.84
18.950	1.82	1.81	1.79	1.78	1.77
19.200	1.75	1.74	1.72	1.71	1.69
19.450	1.68	1.67	1.65	1.64	1.62
19.700	1.61	1.60	1.58	1.57	1.55
19.950	1.54	1.53	1.51	1.50	1.49
20.200	1.48	1.47	1.47	1.46	1.46
20.450	1.45	1.45	1.45	1.45	1.44
20.700	1.44	1.44	1.43	1.43	1.43
20.950	1.43	1.42	1.42	1.42	1.42
21.200	1.41	1.41	1.41	1.40	1.40
21.450	1.40	1.40	1.39	1.39	1.39
21.700	1.38	1.38	1.38	1.38	1.37
21.950	1.37	1.37	1.36	1.36	1.36
22.200	1.36	1.35	1.35	1.35	1.35
22.450	1.34	1.34	1.34	1.33	1.33
22.700	1.33	1.33	1.32	1.32	1.32
22.950	1.31	1.31	1.31	1.31	1.30
23.200	1.30	1.30	1.29	1.29	1.29
23.450	1.29	1.28	1.28	1.28	1.27
23.700	1.27	1.27	1.27	1.26	1.26

Subsection: Unit Hydrograph (Hydrograph Table)

Label: P-A

Scenario: 100YR-24HR

Return Event: 100 years

Storm Event: 100YR-24HR

HYDROGRAPH ORDINATES (ft³/s)

Output Time Increment = 0.050 hours

Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
23.950	1.26	1.25	(N/A)	(N/A)	(N/A)

Subsection: Unit Hydrograph Summary
Label: P-B
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Storm Event	2YR-24HR
Return Event	2 years
Duration	24.000 hours
Depth	3.7 in
Time of Concentration (Composite)	0.813 hours
Area (User Defined)	68.23 acres
Computational Time Increment	0.108 hours
Time to Peak (Computed)	12.358 hours
Flow (Peak, Computed)	77.40 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.350 hours
Flow (Peak Interpolated Output)	76.94 ft ³ /s
Drainage Area	
SCS CN (Composite)	80.70
Area (User Defined)	68.23 acres
Maximum Retention (Pervious)	2.4 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.9 in
Runoff Volume (Pervious)	460,068 ft ³
Hydrograph Volume (Area under Hydrograph curve)	
Volume	454,689 ft ³
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.813 hours
Computational Time Increment	0.108 hours
Unit Hydrograph Shape Factor	483.43
K Factor	0.75
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	95.09 ft ³ /s
Unit peak time, Tp	0.542 hours
Unit receding limb, Tr	2.168 hours
Total unit time, Tb	2.710 hours

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-B
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Storm Event	2YR-24HR
Return Event	2 years
Duration	24.000 hours
Depth	3.7 in
Time of Concentration (Composite)	0.813 hours
Area (User Defined)	68.23 acres

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
8.500	0.00	0.00	0.00	0.01	0.01
8.750	0.02	0.02	0.03	0.05	0.06
9.000	0.08	0.10	0.12	0.14	0.17
9.250	0.20	0.22	0.26	0.29	0.32
9.500	0.35	0.39	0.42	0.46	0.49
9.750	0.53	0.57	0.60	0.65	0.69
10.000	0.73	0.78	0.83	0.88	0.94
10.250	1.00	1.06	1.12	1.19	1.27
10.500	1.34	1.43	1.51	1.61	1.70
10.750	1.81	1.92	2.03	2.16	2.29
11.000	2.44	2.58	2.75	2.92	3.11
11.250	3.31	3.54	3.78	4.04	4.34
11.500	4.66	5.09	5.53	6.37	7.22
11.750	9.03	11.01	14.63	19.00	24.81
12.000	31.95	39.63	48.32	56.72	63.85
12.250	70.91	73.93	76.94	76.59	75.63
12.500	72.88	69.28	64.97	59.97	55.04
12.750	50.24	45.63	41.89	38.16	35.32
13.000	32.47	30.11	27.83	25.87	24.07
13.250	22.47	21.06	19.75	18.63	17.55
13.500	16.67	15.78	15.07	14.36	13.75
13.750	13.17	12.65	12.16	11.71	11.31
14.000	10.92	10.57	10.23	9.92	9.61
14.250	9.34	9.07	8.82	8.57	8.35
14.500	8.15	7.96	7.81	7.66	7.54
14.750	7.41	7.31	7.20	7.11	7.01
15.000	6.93	6.84	6.76	6.68	6.61
15.250	6.53	6.46	6.38	6.31	6.24
15.500	6.17	6.10	6.03	5.97	5.90
15.750	5.83	5.76	5.69	5.63	5.56
16.000	5.49	5.42	5.36	5.29	5.22
16.250	5.16	5.10	5.04	4.98	4.93
16.500	4.87	4.83	4.78	4.74	4.70
16.750	4.66	4.62	4.59	4.56	4.53
17.000	4.49	4.47	4.44	4.41	4.38
17.250	4.35	4.33	4.30	4.28	4.25
17.500	4.23	4.20	4.18	4.15	4.13
17.750	4.10	4.08	4.05	4.03	4.01
18.000	3.98	3.96	3.93	3.91	3.89

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-B
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
18.250	3.86	3.84	3.81	3.79	3.76
18.500	3.74	3.72	3.69	3.67	3.64
18.750	3.62	3.59	3.57	3.54	3.52
19.000	3.50	3.47	3.45	3.42	3.40
19.250	3.37	3.35	3.32	3.30	3.27
19.500	3.25	3.23	3.20	3.18	3.15
19.750	3.13	3.10	3.08	3.05	3.03
20.000	3.00	2.98	2.95	2.93	2.90
20.250	2.88	2.86	2.84	2.82	2.80
20.500	2.78	2.76	2.75	2.73	2.72
20.750	2.71	2.70	2.69	2.68	2.67
21.000	2.66	2.66	2.65	2.64	2.64
21.250	2.63	2.63	2.62	2.61	2.61
21.500	2.60	2.60	2.59	2.59	2.58
21.750	2.58	2.57	2.57	2.56	2.56
22.000	2.55	2.55	2.54	2.54	2.53
22.250	2.53	2.52	2.52	2.52	2.51
22.500	2.51	2.50	2.50	2.49	2.49
22.750	2.48	2.48	2.47	2.47	2.46
23.000	2.46	2.45	2.45	2.44	2.44
23.250	2.43	2.43	2.42	2.42	2.42
23.500	2.41	2.41	2.40	2.40	2.39
23.750	2.39	2.38	2.38	2.37	2.37
24.000	2.35	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Unit Hydrograph Summary
Label: P-B
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Storm Event	10YR-24HR
Return Event	10 years
Duration	24.000 hours
Depth	5.7 in
Time of Concentration (Composite)	0.813 hours
Area (User Defined)	68.23 acres
Computational Time Increment	0.108 hours
Time to Peak (Computed)	12.358 hours
Flow (Peak, Computed)	151.16 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.350 hours
Flow (Peak Interpolated Output)	150.43 ft ³ /s
Drainage Area	
SCS CN (Composite)	80.70
Area (User Defined)	68.23 acres
Maximum Retention (Pervious)	2.4 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	887,119 ft ³
Hydrograph Volume (Area under Hydrograph curve)	
Volume	878,037 ft ³
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.813 hours
Computational Time Increment	0.108 hours
Unit Hydrograph Shape Factor	483.43
K Factor	0.75
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	95.09 ft ³ /s
Unit peak time, Tp	0.542 hours
Unit receding limb, Tr	2.168 hours
Total unit time, Tb	2.710 hours

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-B
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Storm Event	10YR-24HR
Return Event	10 years
Duration	24.000 hours
Depth	5.7 in
Time of Concentration (Composite)	0.813 hours
Area (User Defined)	68.23 acres

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
6.300	0.00	0.00	0.00	0.00	0.01
6.550	0.01	0.02	0.03	0.04	0.05
6.800	0.07	0.09	0.11	0.13	0.15
7.050	0.18	0.20	0.23	0.26	0.29
7.300	0.32	0.35	0.38	0.42	0.45
7.550	0.48	0.52	0.55	0.59	0.62
7.800	0.66	0.70	0.73	0.77	0.81
8.050	0.85	0.89	0.92	0.97	1.01
8.300	1.05	1.09	1.14	1.19	1.24
8.550	1.29	1.35	1.41	1.47	1.54
8.800	1.60	1.68	1.75	1.82	1.90
9.050	1.98	2.06	2.15	2.23	2.32
9.300	2.41	2.49	2.58	2.66	2.74
9.550	2.83	2.90	2.98	3.06	3.14
9.800	3.22	3.31	3.40	3.49	3.59
10.050	3.70	3.82	3.94	4.07	4.21
10.300	4.36	4.52	4.68	4.86	5.05
10.550	5.25	5.46	5.68	5.91	6.15
10.800	6.42	6.69	6.98	7.28	7.62
11.050	7.96	8.34	8.73	9.16	9.62
11.300	10.12	10.67	11.25	11.91	12.62
11.550	13.56	14.52	16.37	18.21	22.06
11.800	26.25	33.65	42.51	54.02	67.97
12.050	82.80	99.22	115.00	127.93	140.73
12.300	145.58	150.43	148.87	146.17	140.14
12.550	132.55	123.73	113.75	103.97	94.58
12.800	85.58	78.33	71.11	65.61	60.12
13.050	55.57	51.19	47.45	44.01	40.95
13.300	38.28	35.79	33.68	31.64	29.97
13.550	28.30	26.97	25.63	24.50	23.41
13.800	22.45	21.55	20.72	19.97	19.25
14.050	18.61	17.99	17.43	16.87	16.37
14.300	15.87	15.41	14.97	14.57	14.20
14.550	13.88	13.59	13.33	13.11	12.89
14.800	12.70	12.51	12.34	12.18	12.02
15.050	11.87	11.73	11.59	11.45	11.31
15.300	11.18	11.05	10.93	10.80	10.68
15.550	10.56	10.43	10.31	10.19	10.07
15.800	9.95	9.83	9.71	9.59	9.47

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-B
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
16.050	9.35	9.24	9.12	9.01	8.89
16.300	8.78	8.68	8.58	8.48	8.39
16.550	8.31	8.23	8.15	8.08	8.01
16.800	7.95	7.89	7.83	7.78	7.72
17.050	7.67	7.62	7.57	7.52	7.48
17.300	7.43	7.38	7.34	7.29	7.25
17.550	7.20	7.16	7.12	7.07	7.03
17.800	6.99	6.95	6.90	6.86	6.82
18.050	6.78	6.73	6.69	6.65	6.61
18.300	6.57	6.52	6.48	6.44	6.40
18.550	6.35	6.31	6.27	6.22	6.18
18.800	6.14	6.10	6.05	6.01	5.97
19.050	5.93	5.88	5.84	5.80	5.76
19.300	5.71	5.67	5.63	5.59	5.54
19.550	5.50	5.46	5.41	5.37	5.33
19.800	5.29	5.24	5.20	5.16	5.11
20.050	5.07	5.03	4.99	4.94	4.90
20.300	4.87	4.83	4.79	4.76	4.73
20.550	4.70	4.67	4.65	4.63	4.61
20.800	4.59	4.57	4.56	4.54	4.53
21.050	4.52	4.51	4.49	4.48	4.47
21.300	4.46	4.45	4.44	4.43	4.42
21.550	4.41	4.40	4.39	4.39	4.38
21.800	4.37	4.36	4.35	4.34	4.33
22.050	4.33	4.32	4.31	4.30	4.29
22.300	4.28	4.27	4.27	4.26	4.25
22.550	4.24	4.23	4.22	4.22	4.21
22.800	4.20	4.19	4.18	4.17	4.17
23.050	4.16	4.15	4.14	4.13	4.12
23.300	4.12	4.11	4.10	4.09	4.08
23.550	4.07	4.06	4.06	4.05	4.04
23.800	4.03	4.02	4.01	4.01	3.98

Subsection: Unit Hydrograph Summary
Label: P-B
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Storm Event	50YR-24HR
Return Event	50 years
Duration	24.000 hours
Depth	8.1 in
Time of Concentration (Composite)	0.813 hours
Area (User Defined)	68.23 acres
Computational Time Increment	0.108 hours
Time to Peak (Computed)	12.358 hours
Flow (Peak, Computed)	243.84 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.350 hours
Flow (Peak Interpolated Output)	242.79 ft ³ /s
Drainage Area	
SCS CN (Composite)	80.70
Area (User Defined)	68.23 acres
Maximum Retention (Pervious)	2.4 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	1,439,299 ft ³
Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,425,788 ft ³
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.813 hours
Computational Time Increment	0.108 hours
Unit Hydrograph Shape Factor	483.43
K Factor	0.75
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	95.09 ft ³ /s
Unit peak time, Tp	0.542 hours
Unit receding limb, Tr	2.168 hours
Total unit time, Tb	2.710 hours

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-B
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Storm Event	50YR-24HR
Return Event	50 years
Duration	24.000 hours
Depth	8.1 in
Time of Concentration (Composite)	0.813 hours
Area (User Defined)	68.23 acres

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
4.850	0.00	0.00	0.00	0.01	0.01
5.100	0.02	0.03	0.05	0.06	0.08
5.350	0.11	0.14	0.17	0.20	0.23
5.600	0.27	0.31	0.35	0.39	0.44
5.850	0.48	0.53	0.57	0.62	0.67
6.100	0.72	0.77	0.82	0.87	0.93
6.350	0.98	1.03	1.09	1.14	1.20
6.600	1.25	1.31	1.37	1.43	1.48
6.850	1.54	1.60	1.66	1.72	1.78
7.100	1.84	1.90	1.96	2.02	2.08
7.350	2.14	2.21	2.27	2.33	2.40
7.600	2.46	2.52	2.59	2.65	2.72
7.850	2.78	2.85	2.91	2.98	3.05
8.100	3.11	3.18	3.25	3.33	3.41
8.350	3.48	3.57	3.66	3.76	3.86
8.600	3.97	4.09	4.21	4.34	4.47
8.850	4.61	4.75	4.90	5.05	5.20
9.100	5.36	5.52	5.69	5.85	6.01
9.350	6.17	6.32	6.47	6.62	6.76
9.600	6.89	7.03	7.16	7.29	7.43
9.850	7.57	7.72	7.88	8.06	8.24
10.100	8.44	8.66	8.89	9.15	9.40
10.350	9.69	9.98	10.31	10.64	10.99
10.600	11.36	11.76	12.17	12.60	13.07
10.850	13.55	14.07	14.60	15.19	15.79
11.100	16.45	17.13	17.88	18.67	19.54
11.350	20.48	21.49	22.61	23.84	25.45
11.600	27.10	30.24	33.38	39.86	46.90
11.850	59.11	73.67	92.36	114.85	138.56
12.100	164.52	189.37	209.31	229.03	235.91
12.350	242.79	239.50	234.40	224.10	211.37
12.600	196.81	180.51	164.62	149.49	134.98
12.850	123.35	111.75	102.94	94.14	86.86
13.100	79.88	73.91	68.43	63.57	59.32
13.350	55.37	52.02	48.79	46.16	43.53
13.600	41.42	39.32	37.54	35.83	34.32
13.850	32.91	31.62	30.44	29.33	28.33
14.100	27.36	26.49	25.62	24.84	24.06
14.350	23.36	22.68	22.06	21.49	20.99

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-B
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
14.600	20.55	20.15	19.81	19.48	19.19
14.850	18.90	18.64	18.38	18.15	17.92
15.100	17.69	17.48	17.27	17.06	16.86
15.350	16.67	16.47	16.28	16.09	15.90
15.600	15.72	15.53	15.35	15.17	14.98
15.850	14.80	14.62	14.44	14.26	14.07
16.100	13.90	13.72	13.54	13.37	13.21
16.350	13.05	12.90	12.75	12.61	12.48
16.600	12.36	12.25	12.14	12.04	11.94
16.850	11.85	11.76	11.68	11.60	11.52
17.100	11.44	11.37	11.29	11.22	11.15
17.350	11.08	11.01	10.94	10.87	10.81
17.600	10.74	10.67	10.61	10.54	10.48
17.850	10.41	10.35	10.28	10.22	10.16
18.100	10.09	10.03	9.96	9.90	9.83
18.350	9.77	9.71	9.64	9.58	9.51
18.600	9.45	9.38	9.32	9.26	9.19
18.850	9.13	9.06	9.00	8.93	8.87
19.100	8.81	8.74	8.68	8.61	8.55
19.350	8.48	8.42	8.36	8.29	8.23
19.600	8.16	8.10	8.03	7.97	7.90
19.850	7.84	7.77	7.71	7.64	7.58
20.100	7.51	7.45	7.39	7.33	7.27
20.350	7.21	7.16	7.11	7.07	7.02
20.600	6.98	6.95	6.91	6.89	6.86
20.850	6.83	6.81	6.79	6.77	6.75
21.100	6.73	6.71	6.69	6.68	6.66
21.350	6.64	6.63	6.61	6.60	6.59
21.600	6.57	6.56	6.54	6.53	6.52
21.850	6.50	6.49	6.48	6.47	6.45
22.100	6.44	6.43	6.41	6.40	6.39
22.350	6.38	6.36	6.35	6.34	6.32
22.600	6.31	6.30	6.29	6.27	6.26
22.850	6.25	6.23	6.22	6.21	6.20
23.100	6.18	6.17	6.16	6.15	6.13
23.350	6.12	6.11	6.09	6.08	6.07
23.600	6.06	6.04	6.03	6.02	6.00
23.850	5.99	5.98	5.97	5.93	(N/A)

Subsection: Unit Hydrograph Summary
Label: P-B
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Storm Event	100YR-24HR
Return Event	100 years
Duration	24.000 hours
Depth	9.3 in
Time of Concentration (Composite)	0.813 hours
Area (User Defined)	68.23 acres
Computational Time Increment	0.108 hours
Time to Peak (Computed)	12.358 hours
Flow (Peak, Computed)	288.32 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.350 hours
Flow (Peak Interpolated Output)	287.13 ft ³ /s
Drainage Area	
SCS CN (Composite)	80.70
Area (User Defined)	68.23 acres
Maximum Retention (Pervious)	2.4 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.9 in
Runoff Volume (Pervious)	1,709,587 ft ³
Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,693,982 ft ³
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.813 hours
Computational Time Increment	0.108 hours
Unit Hydrograph Shape Factor	483.43
K Factor	0.75
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	95.09 ft ³ /s
Unit peak time, Tp	0.542 hours
Unit receding limb, Tr	2.168 hours
Total unit time, Tb	2.710 hours

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-B
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Storm Event	100YR-24HR
Return Event	100 years
Duration	24.000 hours
Depth	9.3 in
Time of Concentration (Composite)	0.813 hours
Area (User Defined)	68.23 acres

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
4.350	0.00	0.00	0.00	0.01	0.01
4.600	0.02	0.03	0.05	0.07	0.09
4.850	0.12	0.15	0.18	0.22	0.26
5.100	0.30	0.34	0.39	0.44	0.49
5.350	0.54	0.59	0.65	0.70	0.76
5.600	0.82	0.87	0.93	0.99	1.05
5.850	1.11	1.18	1.24	1.30	1.37
6.100	1.43	1.50	1.56	1.63	1.69
6.350	1.76	1.83	1.90	1.97	2.04
6.600	2.11	2.18	2.25	2.32	2.39
6.850	2.46	2.53	2.60	2.68	2.75
7.100	2.83	2.90	2.97	3.05	3.12
7.350	3.20	3.28	3.35	3.43	3.50
7.600	3.58	3.66	3.74	3.81	3.89
7.850	3.97	4.05	4.13	4.21	4.29
8.100	4.37	4.46	4.54	4.63	4.72
8.350	4.82	4.93	5.04	5.16	5.29
8.600	5.43	5.57	5.72	5.88	6.04
8.850	6.22	6.39	6.58	6.77	6.96
9.100	7.16	7.36	7.56	7.76	7.96
9.350	8.15	8.34	8.52	8.70	8.87
9.600	9.03	9.19	9.34	9.50	9.66
9.850	9.83	10.01	10.20	10.42	10.64
10.100	10.88	11.15	11.42	11.73	12.04
10.350	12.40	12.75	13.15	13.55	13.98
10.600	14.43	14.91	15.41	15.93	16.50
10.850	17.08	17.72	18.36	19.07	19.79
11.100	20.59	21.41	22.32	23.27	24.32
11.350	25.45	26.66	28.02	29.49	31.42
11.600	33.41	37.18	40.96	48.71	57.13
11.850	71.66	88.96	111.09	137.67	165.62
12.100	196.12	225.29	248.53	271.53	279.33
12.350	287.13	282.97	276.67	264.31	249.09
12.600	231.76	212.43	193.59	175.71	158.56
12.850	144.83	131.13	120.74	110.35	101.77
13.100	93.54	86.50	80.05	74.32	69.32
13.350	64.68	60.74	56.94	53.85	50.75
13.600	48.28	45.81	43.73	41.72	39.95
13.850	38.29	36.78	35.41	34.10	32.94

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-B
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
14.100	31.79	30.78	29.76	28.85	27.94
14.350	27.12	26.32	25.61	24.94	24.35
14.600	23.85	23.38	22.98	22.60	22.26
14.850	21.92	21.62	21.32	21.05	20.77
15.100	20.52	20.27	20.02	19.78	19.55
15.350	19.32	19.09	18.87	18.65	18.44
15.600	18.22	18.00	17.79	17.58	17.36
15.850	17.15	16.94	16.73	16.52	16.31
16.100	16.10	15.89	15.69	15.49	15.30
16.350	15.11	14.94	14.77	14.61	14.46
16.600	14.32	14.19	14.06	13.94	13.83
16.850	13.72	13.62	13.52	13.43	13.34
17.100	13.25	13.16	13.07	12.99	12.91
17.350	12.83	12.75	12.67	12.59	12.51
17.600	12.43	12.36	12.28	12.20	12.13
17.850	12.05	11.98	11.90	11.83	11.75
18.100	11.68	11.60	11.53	11.46	11.38
18.350	11.31	11.23	11.16	11.08	11.01
18.600	10.93	10.86	10.78	10.71	10.63
18.850	10.56	10.48	10.41	10.34	10.26
19.100	10.19	10.11	10.04	9.96	9.89
19.350	9.81	9.74	9.67	9.59	9.52
19.600	9.44	9.37	9.29	9.22	9.14
19.850	9.06	8.99	8.91	8.84	8.76
20.100	8.69	8.62	8.55	8.47	8.41
20.350	8.34	8.28	8.22	8.17	8.12
20.600	8.07	8.03	8.00	7.96	7.93
20.850	7.90	7.87	7.85	7.82	7.80
21.100	7.78	7.76	7.74	7.72	7.70
21.350	7.68	7.66	7.65	7.63	7.61
21.600	7.60	7.58	7.57	7.55	7.53
21.850	7.52	7.50	7.49	7.47	7.46
22.100	7.44	7.43	7.41	7.40	7.38
22.350	7.37	7.35	7.34	7.32	7.31
22.600	7.29	7.28	7.26	7.25	7.23
22.850	7.22	7.21	7.19	7.18	7.16
23.100	7.15	7.13	7.12	7.10	7.09
23.350	7.07	7.06	7.04	7.03	7.01
23.600	7.00	6.98	6.97	6.95	6.94
23.850	6.92	6.91	6.89	6.86	(N/A)

Subsection: Unit Hydrograph Summary

Label: P-C

Scenario: 2YR-24HR

Return Event: 2 years

Storm Event: 2YR-24HR

Storm Event	2YR-24HR
Return Event	2 years
Duration	24.000 hours
Depth	3.7 in
Time of Concentration (Composite)	0.260 hours
Area (User Defined)	2.64 acres
Computational Time Increment	0.035 hours
Time to Peak (Computed)	12.064 hours
Flow (Peak, Computed)	5.68 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.050 hours
Flow (Peak Interpolated Output)	5.66 ft ³ /s
Drainage Area	
SCS CN (Composite)	80.00
Area (User Defined)	2.64 acres
Maximum Retention (Pervious)	2.5 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.8 in
Runoff Volume (Pervious)	17,294 ft ³
Hydrograph Volume (Area under Hydrograph curve)	
Volume	17,230 ft ³
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.260 hours
Computational Time Increment	0.035 hours
Unit Hydrograph Shape Factor	483.43
K Factor	0.75
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.50 ft ³ /s
Unit peak time, Tp	0.173 hours
Unit receding limb, Tr	0.693 hours
Total unit time, Tb	0.867 hours

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-C
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Storm Event	2YR-24HR
Return Event	2 years
Duration	24.000 hours
Depth	3.7 in
Time of Concentration (Composite)	0.260 hours
Area (User Defined)	2.64 acres

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
8.750	0.00	0.00	0.00	0.00	0.00
9.000	0.01	0.01	0.01	0.01	0.01
9.250	0.01	0.01	0.02	0.02	0.02
9.500	0.02	0.02	0.02	0.02	0.03
9.750	0.03	0.03	0.03	0.03	0.04
10.000	0.04	0.04	0.04	0.05	0.05
10.250	0.05	0.06	0.06	0.06	0.07
10.500	0.07	0.08	0.08	0.09	0.09
10.750	0.10	0.11	0.11	0.12	0.13
11.000	0.14	0.14	0.15	0.17	0.18
11.250	0.19	0.21	0.23	0.25	0.27
11.500	0.29	0.33	0.40	0.53	0.76
11.750	1.10	1.58	2.26	3.23	4.36
12.000	5.29	5.66	5.34	4.41	3.41
12.250	2.59	2.03	1.66	1.40	1.21
12.500	1.06	0.94	0.84	0.76	0.70
12.750	0.65	0.61	0.58	0.56	0.54
13.000	0.52	0.50	0.48	0.47	0.45
13.250	0.44	0.43	0.42	0.41	0.40
13.500	0.39	0.38	0.37	0.36	0.35
13.750	0.34	0.33	0.33	0.32	0.31
14.000	0.31	0.30	0.29	0.29	0.28
14.250	0.28	0.27	0.27	0.27	0.26
14.500	0.26	0.26	0.26	0.25	0.25
14.750	0.25	0.25	0.24	0.24	0.24
15.000	0.24	0.23	0.23	0.23	0.23
15.250	0.22	0.22	0.22	0.22	0.21
15.500	0.21	0.21	0.21	0.20	0.20
15.750	0.20	0.20	0.19	0.19	0.19
16.000	0.19	0.18	0.18	0.18	0.18
16.250	0.18	0.17	0.17	0.17	0.17
16.500	0.17	0.17	0.17	0.17	0.17
16.750	0.17	0.17	0.16	0.16	0.16
17.000	0.16	0.16	0.16	0.16	0.16
17.250	0.16	0.16	0.16	0.15	0.15
17.500	0.15	0.15	0.15	0.15	0.15
17.750	0.15	0.15	0.15	0.15	0.14
18.000	0.14	0.14	0.14	0.14	0.14
18.250	0.14	0.14	0.14	0.14	0.14

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-C
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
18.500	0.13	0.13	0.13	0.13	0.13
18.750	0.13	0.13	0.13	0.13	0.13
19.000	0.13	0.12	0.12	0.12	0.12
19.250	0.12	0.12	0.12	0.12	0.12
19.500	0.12	0.11	0.11	0.11	0.11
19.750	0.11	0.11	0.11	0.11	0.11
20.000	0.11	0.11	0.10	0.10	0.10
20.250	0.10	0.10	0.10	0.10	0.10
20.500	0.10	0.10	0.10	0.10	0.10
20.750	0.10	0.10	0.10	0.10	0.10
21.000	0.10	0.10	0.10	0.10	0.10
21.250	0.10	0.10	0.10	0.10	0.10
21.500	0.10	0.10	0.10	0.10	0.10
21.750	0.10	0.10	0.10	0.10	0.10
22.000	0.10	0.10	0.10	0.10	0.10
22.250	0.09	0.09	0.09	0.09	0.09
22.500	0.09	0.09	0.09	0.09	0.09
22.750	0.09	0.09	0.09	0.09	0.09
23.000	0.09	0.09	0.09	0.09	0.09
23.250	0.09	0.09	0.09	0.09	0.09
23.500	0.09	0.09	0.09	0.09	0.09
23.750	0.09	0.09	0.09	0.09	0.09
24.000	0.09	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Unit Hydrograph Summary
Label: P-C
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Storm Event	10YR-24HR
Return Event	10 years
Duration	24.000 hours
Depth	5.7 in
Time of Concentration (Composite)	0.260 hours
Area (User Defined)	2.64 acres
Computational Time Increment	0.035 hours
Time to Peak (Computed)	12.029 hours
Flow (Peak, Computed)	10.97 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.050 hours
Flow (Peak Interpolated Output)	10.96 ft ³ /s
Drainage Area	
SCS CN (Composite)	80.00
Area (User Defined)	2.64 acres
Maximum Retention (Pervious)	2.5 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.5 in
Runoff Volume (Pervious)	33,654 ft ³
Hydrograph Volume (Area under Hydrograph curve)	
Volume	33,545 ft ³
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.260 hours
Computational Time Increment	0.035 hours
Unit Hydrograph Shape Factor	483.43
K Factor	0.75
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.50 ft ³ /s
Unit peak time, Tp	0.173 hours
Unit receding limb, Tr	0.693 hours
Total unit time, Tb	0.867 hours

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-C
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Storm Event	10YR-24HR
Return Event	10 years
Duration	24.000 hours
Depth	5.7 in
Time of Concentration (Composite)	0.260 hours
Area (User Defined)	2.64 acres

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
6.600	0.00	0.00	0.00	0.00	0.00
6.850	0.01	0.01	0.01	0.01	0.01
7.100	0.01	0.01	0.01	0.02	0.02
7.350	0.02	0.02	0.02	0.02	0.02
7.600	0.03	0.03	0.03	0.03	0.03
7.850	0.03	0.03	0.04	0.04	0.04
8.100	0.04	0.04	0.04	0.05	0.05
8.350	0.05	0.05	0.06	0.06	0.06
8.600	0.07	0.07	0.07	0.08	0.08
8.850	0.08	0.09	0.09	0.09	0.10
9.100	0.10	0.10	0.11	0.11	0.11
9.350	0.12	0.12	0.12	0.12	0.12
9.600	0.13	0.13	0.13	0.14	0.14
9.850	0.15	0.16	0.16	0.17	0.17
10.100	0.18	0.19	0.20	0.20	0.21
10.350	0.22	0.23	0.24	0.25	0.26
10.600	0.27	0.29	0.30	0.31	0.33
10.850	0.35	0.36	0.38	0.40	0.42
11.100	0.44	0.47	0.50	0.53	0.57
11.350	0.61	0.65	0.70	0.75	0.83
11.600	0.99	1.29	1.81	2.54	3.54
11.850	4.88	6.74	8.83	10.46	10.96
12.100	10.19	8.34	6.40	4.83	3.76
12.350	3.05	2.56	2.19	1.92	1.69
12.600	1.51	1.36	1.25	1.16	1.09
12.850	1.04	1.00	0.96	0.92	0.89
13.100	0.86	0.83	0.80	0.78	0.76
13.350	0.74	0.72	0.70	0.68	0.67
13.600	0.65	0.63	0.62	0.60	0.59
13.850	0.57	0.56	0.55	0.54	0.52
14.100	0.51	0.50	0.49	0.48	0.48
14.350	0.47	0.47	0.46	0.46	0.45
14.600	0.45	0.44	0.44	0.44	0.43
14.850	0.43	0.42	0.42	0.41	0.41
15.100	0.40	0.40	0.40	0.39	0.39
15.350	0.38	0.38	0.37	0.37	0.36
15.600	0.36	0.36	0.35	0.35	0.34
15.850	0.34	0.33	0.33	0.32	0.32
16.100	0.31	0.31	0.31	0.31	0.30

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-C
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
16.350	0.30	0.30	0.30	0.30	0.29
16.600	0.29	0.29	0.29	0.29	0.29
16.850	0.28	0.28	0.28	0.28	0.28
17.100	0.28	0.27	0.27	0.27	0.27
17.350	0.27	0.27	0.27	0.26	0.26
17.600	0.26	0.26	0.26	0.26	0.25
17.850	0.25	0.25	0.25	0.25	0.25
18.100	0.24	0.24	0.24	0.24	0.24
18.350	0.24	0.23	0.23	0.23	0.23
18.600	0.23	0.23	0.22	0.22	0.22
18.850	0.22	0.22	0.22	0.21	0.21
19.100	0.21	0.21	0.21	0.21	0.20
19.350	0.20	0.20	0.20	0.20	0.20
19.600	0.19	0.19	0.19	0.19	0.19
19.850	0.19	0.19	0.18	0.18	0.18
20.100	0.18	0.18	0.18	0.18	0.17
20.350	0.17	0.17	0.17	0.17	0.17
20.600	0.17	0.17	0.17	0.17	0.17
20.850	0.17	0.17	0.17	0.17	0.17
21.100	0.17	0.17	0.17	0.17	0.17
21.350	0.17	0.17	0.17	0.17	0.17
21.600	0.17	0.17	0.17	0.17	0.16
21.850	0.16	0.16	0.16	0.16	0.16
22.100	0.16	0.16	0.16	0.16	0.16
22.350	0.16	0.16	0.16	0.16	0.16
22.600	0.16	0.16	0.16	0.16	0.16
22.850	0.16	0.16	0.16	0.16	0.16
23.100	0.16	0.16	0.16	0.16	0.16
23.350	0.15	0.15	0.15	0.15	0.15
23.600	0.15	0.15	0.15	0.15	0.15
23.850	0.15	0.15	0.15	0.15	(N/A)

Subsection: Unit Hydrograph Summary
Label: P-C
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Storm Event	50YR-24HR
Return Event	50 years
Duration	24.000 hours
Depth	8.1 in
Time of Concentration (Composite)	0.260 hours
Area (User Defined)	2.64 acres
Computational Time Increment	0.035 hours
Time to Peak (Computed)	12.029 hours
Flow (Peak, Computed)	17.67 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.050 hours
Flow (Peak Interpolated Output)	17.58 ft ³ /s
Drainage Area	
SCS CN (Composite)	80.00
Area (User Defined)	2.64 acres
Maximum Retention (Pervious)	2.5 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	54,895 ft ³
Hydrograph Volume (Area under Hydrograph curve)	
Volume	54,732 ft ³
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.260 hours
Computational Time Increment	0.035 hours
Unit Hydrograph Shape Factor	483.43
K Factor	0.75
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.50 ft ³ /s
Unit peak time, Tp	0.173 hours
Unit receding limb, Tr	0.693 hours
Total unit time, Tb	0.867 hours

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-C
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Storm Event	50YR-24HR
Return Event	50 years
Duration	24.000 hours
Depth	8.1 in
Time of Concentration (Composite)	0.260 hours
Area (User Defined)	2.64 acres

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
5.050	0.00	0.00	0.00	0.00	0.01
5.300	0.01	0.01	0.01	0.01	0.01
5.550	0.02	0.02	0.02	0.02	0.02
5.800	0.03	0.03	0.03	0.03	0.03
6.050	0.04	0.04	0.04	0.04	0.04
6.300	0.05	0.05	0.05	0.05	0.06
6.550	0.06	0.06	0.06	0.06	0.07
6.800	0.07	0.07	0.07	0.08	0.08
7.050	0.08	0.08	0.09	0.09	0.09
7.300	0.09	0.10	0.10	0.10	0.10
7.550	0.11	0.11	0.11	0.11	0.12
7.800	0.12	0.12	0.12	0.13	0.13
8.050	0.13	0.13	0.14	0.14	0.15
8.300	0.15	0.16	0.16	0.17	0.17
8.550	0.18	0.18	0.19	0.20	0.20
8.800	0.21	0.22	0.22	0.23	0.24
9.050	0.24	0.25	0.26	0.26	0.27
9.300	0.27	0.28	0.28	0.28	0.29
9.550	0.29	0.29	0.30	0.31	0.31
9.800	0.32	0.33	0.34	0.35	0.37
10.050	0.38	0.39	0.40	0.42	0.43
10.300	0.45	0.47	0.48	0.50	0.52
10.550	0.54	0.56	0.58	0.60	0.63
10.800	0.66	0.69	0.72	0.75	0.78
11.050	0.81	0.85	0.90	0.95	1.01
11.300	1.07	1.14	1.21	1.29	1.37
11.550	1.51	1.81	2.33	3.22	4.45
11.800	6.12	8.31	11.26	14.52	16.96
12.050	17.58	16.22	13.21	10.09	7.59
12.300	5.88	4.76	3.98	3.40	2.96
12.550	2.61	2.33	2.09	1.91	1.77
12.800	1.67	1.59	1.53	1.47	1.41
13.050	1.36	1.31	1.26	1.22	1.19
13.300	1.15	1.12	1.10	1.07	1.04
13.550	1.01	0.99	0.96	0.94	0.91
13.800	0.89	0.87	0.85	0.83	0.81
14.050	0.79	0.78	0.76	0.75	0.73
14.300	0.72	0.72	0.71	0.70	0.69
14.550	0.69	0.68	0.67	0.67	0.66

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: P-C
 Scenario: 50YR-24HR

Return Event: 50 years
 Storm Event: 50YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
14.800	0.65	0.65	0.64	0.63	0.62
15.050	0.62	0.61	0.60	0.60	0.59
15.300	0.58	0.58	0.57	0.56	0.56
15.550	0.55	0.54	0.54	0.53	0.52
15.800	0.52	0.51	0.50	0.49	0.49
16.050	0.48	0.47	0.47	0.46	0.46
16.300	0.46	0.45	0.45	0.45	0.45
16.550	0.44	0.44	0.44	0.44	0.43
16.800	0.43	0.43	0.43	0.42	0.42
17.050	0.42	0.42	0.41	0.41	0.41
17.300	0.41	0.40	0.40	0.40	0.40
17.550	0.39	0.39	0.39	0.39	0.38
17.800	0.38	0.38	0.38	0.37	0.37
18.050	0.37	0.37	0.36	0.36	0.36
18.300	0.36	0.35	0.35	0.35	0.35
18.550	0.34	0.34	0.34	0.34	0.33
18.800	0.33	0.33	0.33	0.32	0.32
19.050	0.32	0.32	0.31	0.31	0.31
19.300	0.31	0.30	0.30	0.30	0.30
19.550	0.29	0.29	0.29	0.29	0.28
19.800	0.28	0.28	0.28	0.27	0.27
20.050	0.27	0.27	0.27	0.26	0.26
20.300	0.26	0.26	0.26	0.26	0.26
20.550	0.26	0.26	0.26	0.26	0.26
20.800	0.26	0.26	0.26	0.25	0.25
21.050	0.25	0.25	0.25	0.25	0.25
21.300	0.25	0.25	0.25	0.25	0.25
21.550	0.25	0.25	0.25	0.25	0.25
21.800	0.25	0.25	0.25	0.25	0.24
22.050	0.24	0.24	0.24	0.24	0.24
22.300	0.24	0.24	0.24	0.24	0.24
22.550	0.24	0.24	0.24	0.24	0.24
22.800	0.24	0.24	0.24	0.24	0.23
23.050	0.23	0.23	0.23	0.23	0.23
23.300	0.23	0.23	0.23	0.23	0.23
23.550	0.23	0.23	0.23	0.23	0.23
23.800	0.23	0.23	0.23	0.23	0.22

Subsection: Unit Hydrograph Summary
Label: P-C
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Storm Event	100YR-24HR
Return Event	100 years
Duration	24.000 hours
Depth	9.3 in
Time of Concentration (Composite)	0.260 hours
Area (User Defined)	2.64 acres
Computational Time Increment	0.035 hours
Time to Peak (Computed)	12.029 hours
Flow (Peak, Computed)	20.88 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.050 hours
Flow (Peak Interpolated Output)	20.75 ft ³ /s
Drainage Area	
SCS CN (Composite)	80.00
Area (User Defined)	2.64 acres
Maximum Retention (Pervious)	2.5 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.8 in
Runoff Volume (Pervious)	65,311 ft ³
Hydrograph Volume (Area under Hydrograph curve)	
Volume	65,123 ft ³
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.260 hours
Computational Time Increment	0.035 hours
Unit Hydrograph Shape Factor	483.43
K Factor	0.75
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.50 ft ³ /s
Unit peak time, Tp	0.173 hours
Unit receding limb, Tr	0.693 hours
Total unit time, Tb	0.867 hours

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-C
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Storm Event	100YR-24HR
Return Event	100 years
Duration	24.000 hours
Depth	9.3 in
Time of Concentration (Composite)	0.260 hours
Area (User Defined)	2.64 acres

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
4.550	0.00	0.00	0.00	0.00	0.01
4.800	0.01	0.01	0.01	0.01	0.02
5.050	0.02	0.02	0.02	0.02	0.03
5.300	0.03	0.03	0.03	0.04	0.04
5.550	0.04	0.04	0.05	0.05	0.05
5.800	0.05	0.06	0.06	0.06	0.06
6.050	0.07	0.07	0.07	0.07	0.08
6.300	0.08	0.08	0.09	0.09	0.09
6.550	0.09	0.10	0.10	0.10	0.10
6.800	0.11	0.11	0.11	0.12	0.12
7.050	0.12	0.12	0.13	0.13	0.13
7.300	0.14	0.14	0.14	0.15	0.15
7.550	0.15	0.15	0.16	0.16	0.16
7.800	0.17	0.17	0.17	0.18	0.18
8.050	0.18	0.19	0.19	0.19	0.20
8.300	0.21	0.21	0.22	0.23	0.23
8.550	0.24	0.25	0.26	0.26	0.27
8.800	0.28	0.29	0.30	0.31	0.32
9.050	0.32	0.33	0.34	0.35	0.35
9.300	0.36	0.36	0.37	0.37	0.37
9.550	0.38	0.38	0.39	0.40	0.41
9.800	0.42	0.43	0.44	0.46	0.47
10.050	0.48	0.50	0.52	0.53	0.55
10.300	0.57	0.59	0.61	0.64	0.66
10.550	0.68	0.70	0.73	0.76	0.79
10.800	0.83	0.86	0.90	0.94	0.97
11.050	1.01	1.06	1.11	1.17	1.25
11.300	1.32	1.41	1.50	1.59	1.69
11.550	1.86	2.21	2.85	3.91	5.40
11.800	7.39	9.98	13.45	17.26	20.08
12.050	20.75	19.10	15.53	11.85	8.90
12.300	6.89	5.57	4.65	3.97	3.46
12.550	3.04	2.71	2.44	2.23	2.06
12.800	1.94	1.85	1.78	1.71	1.64
13.050	1.58	1.52	1.47	1.42	1.38
13.300	1.34	1.31	1.27	1.24	1.21
13.550	1.18	1.15	1.12	1.09	1.06
13.800	1.04	1.01	0.99	0.97	0.94
14.050	0.92	0.90	0.88	0.87	0.85

Subsection: Unit Hydrograph (Hydrograph Table)
Label: P-C
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
14.300	0.84	0.83	0.82	0.81	0.80
14.550	0.80	0.79	0.78	0.77	0.76
14.800	0.76	0.75	0.74	0.73	0.73
15.050	0.72	0.71	0.70	0.69	0.69
15.300	0.68	0.67	0.66	0.65	0.65
15.550	0.64	0.63	0.62	0.61	0.61
15.800	0.60	0.59	0.58	0.57	0.57
16.050	0.56	0.55	0.54	0.54	0.53
16.300	0.53	0.53	0.52	0.52	0.52
16.550	0.51	0.51	0.51	0.50	0.50
16.800	0.50	0.50	0.49	0.49	0.49
17.050	0.48	0.48	0.48	0.48	0.47
17.300	0.47	0.47	0.46	0.46	0.46
17.550	0.46	0.45	0.45	0.45	0.44
17.800	0.44	0.44	0.44	0.43	0.43
18.050	0.43	0.42	0.42	0.42	0.42
18.300	0.41	0.41	0.41	0.40	0.40
18.550	0.40	0.40	0.39	0.39	0.39
18.800	0.38	0.38	0.38	0.38	0.37
19.050	0.37	0.37	0.36	0.36	0.36
19.300	0.36	0.35	0.35	0.35	0.34
19.550	0.34	0.34	0.34	0.33	0.33
19.800	0.33	0.32	0.32	0.32	0.32
20.050	0.31	0.31	0.31	0.31	0.30
20.300	0.30	0.30	0.30	0.30	0.30
20.550	0.30	0.30	0.30	0.30	0.30
20.800	0.30	0.30	0.30	0.29	0.29
21.050	0.29	0.29	0.29	0.29	0.29
21.300	0.29	0.29	0.29	0.29	0.29
21.550	0.29	0.29	0.29	0.29	0.29
21.800	0.29	0.28	0.28	0.28	0.28
22.050	0.28	0.28	0.28	0.28	0.28
22.300	0.28	0.28	0.28	0.28	0.28
22.550	0.28	0.28	0.28	0.27	0.27
22.800	0.27	0.27	0.27	0.27	0.27
23.050	0.27	0.27	0.27	0.27	0.27
23.300	0.27	0.27	0.27	0.27	0.27
23.550	0.27	0.26	0.26	0.26	0.26
23.800	0.26	0.26	0.26	0.26	0.26

Subsection: Addition Summary

Label: EXIST OUT

Scenario: 2YR-24HR

Return Event: 2 years

Storm Event: 2YR-24HR

Summary for Hydrograph Addition at 'EXIST OUT'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	E-1

Node Inflows

Inflow Type	Element	Volume (ft ³)	Time to Peak (hours)	Flow (Peak) (ft ³ /s)
Flow (From)	E-1	564,322	12.350	95.81
Flow (In)	EXIST OUT	564,322	12.350	95.81

Subsection: Addition Summary

Label: EXIST OUT

Scenario: 10YR-24HR

Return Event: 10 years

Storm Event: 10YR-24HR

Summary for Hydrograph Addition at 'EXIST OUT'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	E-1

Node Inflows

Inflow Type	Element	Volume (ft ³)	Time to Peak (hours)	Flow (Peak) (ft ³ /s)
Flow (From)	E-1	1,077,928	12.350	184.63
Flow (In)	EXIST OUT	1,077,928	12.350	184.63

Subsection: Addition Summary
Label: EXIST OUT
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Summary for Hydrograph Addition at 'EXIST OUT'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	E-1

Node Inflows

Inflow Type	Element	Volume (ft ³)	Time to Peak (hours)	Flow (Peak) (ft ³ /s)
Flow (From)	E-1	1,739,221	12.350	295.63
Flow (In)	EXIST OUT	1,739,221	12.350	295.63

Subsection: Addition Summary

Label: EXIST OUT

Scenario: 100YR-24HR

Return Event: 100 years

Storm Event: 100YR-24HR

Summary for Hydrograph Addition at 'EXIST OUT'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	E-1

Node Inflows

Inflow Type	Element	Volume (ft ³)	Time to Peak (hours)	Flow (Peak) (ft ³ /s)
Flow (From)	E-1	2,062,348	12.350	348.80
Flow (In)	EXIST OUT	2,062,348	12.350	348.80

Subsection: Addition Summary

Label: Outlet

Scenario: 2YR-24HR

Return Event: 2 years

Storm Event: 2YR-24HR

Summary for Hydrograph Addition at 'Outlet'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	P-C
Outlet_Pipe	Prop_Basin

Node Inflows

Inflow Type	Element	Volume (ft ³)	Time to Peak (hours)	Flow (Peak) (ft ³ /s)
Flow (From)	P-C	17,230	12.050	5.66
Flow (From)	Outlet_Pipe	336,763	13.350	21.70
Flow (In)	Outlet	353,993	13.350	22.12

Subsection: Addition Summary

Label: Outlet

Scenario: 10YR-24HR

Return Event: 10 years

Storm Event: 10YR-24HR

Summary for Hydrograph Addition at 'Outlet'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	P-C
Outlet_Pipe	Prop_Basin

Node Inflows

Inflow Type	Element	Volume (ft ³)	Time to Peak (hours)	Flow (Peak) (ft ³ /s)
Flow (From)	P-C	33,545	12.050	10.96
Flow (From)	Outlet_Pipe	832,724	12.800	92.45
Flow (In)	Outlet	866,269	12.800	93.54

Subsection: Addition Summary

Label: Outlet

Scenario: 50YR-24HR

Return Event: 50 years

Storm Event: 50YR-24HR

Summary for Hydrograph Addition at 'Outlet'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	P-C
Outlet_Pipe	Prop_Basin

Node Inflows

Inflow Type	Element	Volume (ft ³)	Time to Peak (hours)	Flow (Peak) (ft ³ /s)
Flow (From)	P-C	54,732	12.050	17.58
Flow (From)	Outlet_Pipe	1,472,696	12.650	190.34
Flow (In)	Outlet	1,527,428	12.650	192.43

Subsection: Addition Summary

Label: Outlet

Scenario: 100YR-24HR

Return Event: 100 years

Storm Event: 100YR-24HR

Summary for Hydrograph Addition at 'Outlet'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	P-C
Outlet_Pipe	Prop_Basin

Node Inflows

Inflow Type	Element	Volume (ft ³)	Time to Peak (hours)	Flow (Peak) (ft ³ /s)
Flow (From)	P-C	65,123	12.050	20.75
Flow (From)	Outlet_Pipe	1,787,924	12.600	236.26
Flow (In)	Outlet	1,853,047	12.600	238.98

Subsection: Time vs. Elevation
Label: Prop_Basin (OUT)
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	947.30	947.30	947.30	947.30	947.30
0.250	947.30	947.30	947.30	947.30	947.30
0.500	947.30	947.30	947.30	947.30	947.30
0.750	947.30	947.30	947.30	947.30	947.30
1.000	947.30	947.30	947.30	947.30	947.30
1.250	947.30	947.30	947.30	947.30	947.30
1.500	947.30	947.30	947.30	947.30	947.30
1.750	947.30	947.30	947.30	947.30	947.30
2.000	947.30	947.30	947.30	947.30	947.30
2.250	947.30	947.30	947.30	947.30	947.30
2.500	947.30	947.30	947.30	947.30	947.30
2.750	947.30	947.30	947.30	947.30	947.30
3.000	947.30	947.30	947.30	947.30	947.30
3.250	947.30	947.30	947.30	947.30	947.30
3.500	947.30	947.30	947.30	947.30	947.30
3.750	947.30	947.30	947.30	947.30	947.30
4.000	947.30	947.30	947.30	947.30	947.30
4.250	947.30	947.30	947.30	947.30	947.30
4.500	947.30	947.30	947.30	947.30	947.30
4.750	947.30	947.30	947.30	947.30	947.30
5.000	947.30	947.30	947.30	947.30	947.30
5.250	947.30	947.30	947.30	947.30	947.30
5.500	947.30	947.30	947.30	947.31	947.31
5.750	947.31	947.32	947.32	947.33	947.33
6.000	947.34	947.34	947.35	947.36	947.36
6.250	947.37	947.38	947.39	947.39	947.40
6.500	947.41	947.42	947.43	947.43	947.44
6.750	947.45	947.46	947.47	947.48	947.49
7.000	947.50	947.51	947.52	947.52	947.53
7.250	947.54	947.55	947.56	947.57	947.58
7.500	947.59	947.60	947.61	947.62	947.63
7.750	947.64	947.65	947.66	947.67	947.69
8.000	947.70	947.71	947.72	947.73	947.74
8.250	947.75	947.76	947.78	947.79	947.80
8.500	947.81	947.81	947.82	947.82	947.83
8.750	947.84	947.85	947.86	947.87	947.88
9.000	947.89	947.91	947.93	947.94	947.97
9.250	947.99	948.01	948.02	948.03	948.04
9.500	948.06	948.07	948.09	948.11	948.12
9.750	948.14	948.16	948.18	948.21	948.23
10.000	948.26	948.28	948.31	948.32	948.34
10.250	948.36	948.38	948.40	948.42	948.45
10.500	948.47	948.50	948.52	948.54	948.56
10.750	948.58	948.60	948.63	948.66	948.68
11.000	948.71	948.74	948.78	948.81	948.83
11.250	948.85	948.88	948.91	948.94	948.97

Subsection: Time vs. Elevation
Label: Prop_Basin (OUT)
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
11.500	949.01	949.04	949.09	949.14	949.20
11.750	949.29	949.36	949.46	949.59	949.77
12.000	949.94	950.13	950.33	950.52	950.72
12.250	950.90	951.08	951.26	951.43	951.60
12.500	951.76	951.90	952.04	952.16	952.27
12.750	952.36	952.44	952.50	952.55	952.60
13.000	952.63	952.66	952.68	952.70	952.71
13.250	952.72	952.73	952.73	952.73	952.73
13.500	952.72	952.72	952.71	952.70	952.69
13.750	952.68	952.67	952.66	952.65	952.64
14.000	952.63	952.62	952.61	952.60	952.59
14.250	952.58	952.57	952.56	952.54	952.53
14.500	952.52	952.51	952.51	952.50	952.49
14.750	952.48	952.47	952.46	952.45	952.45
15.000	952.44	952.43	952.42	952.42	952.41
15.250	952.41	952.40	952.39	952.39	952.38
15.500	952.38	952.37	952.37	952.36	952.36
15.750	952.35	952.35	952.35	952.34	952.34
16.000	952.33	952.33	952.33	952.32	952.32
16.250	952.32	952.31	952.31	952.31	952.30
16.500	952.30	952.30	952.29	952.29	952.29
16.750	952.28	952.28	952.28	952.27	952.27
17.000	952.27	952.27	952.26	952.26	952.26
17.250	952.25	952.25	952.25	952.25	952.24
17.500	952.24	952.24	952.23	952.23	952.23
17.750	952.23	952.22	952.22	952.22	952.22
18.000	952.21	952.21	952.21	952.21	952.20
18.250	952.20	952.20	952.20	952.20	952.19
18.500	952.19	952.19	952.19	952.18	952.18
18.750	952.18	952.18	952.18	952.17	952.17
19.000	952.17	952.17	952.16	952.16	952.16
19.250	952.16	952.16	952.15	952.15	952.15
19.500	952.15	952.15	952.14	952.14	952.14
19.750	952.14	952.14	952.13	952.13	952.13
20.000	952.13	952.13	952.12	952.12	952.12
20.250	952.12	952.12	952.11	952.11	952.11
20.500	952.11	952.11	952.11	952.10	952.10
20.750	952.10	952.10	952.10	952.10	952.09
21.000	952.09	952.09	952.09	952.09	952.09
21.250	952.08	952.08	952.08	952.08	952.08
21.500	952.08	952.08	952.08	952.07	952.07
21.750	952.07	952.07	952.07	952.07	952.07
22.000	952.07	952.07	952.07	952.06	952.06
22.250	952.06	952.06	952.06	952.06	952.06
22.500	952.06	952.06	952.06	952.06	952.06
22.750	952.05	952.05	952.05	952.05	952.05

Subsection: Time vs. Elevation
 Label: Prop_Basin (OUT)
 Scenario: 2YR-24HR

Return Event: 2 years
 Storm Event: 2YR-24HR

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
23.000	952.05	952.05	952.05	952.05	952.05
23.250	952.05	952.05	952.05	952.05	952.05
23.500	952.04	952.04	952.04	952.04	952.04
23.750	952.04	952.04	952.04	952.04	952.04
24.000	952.04	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation
 Label: Prop_Basin (OUT)
 Scenario: 10YR-24HR

Return Event: 10 years
 Storm Event: 10YR-24HR

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	947.30	947.30	947.30	947.30	947.30
0.250	947.30	947.30	947.30	947.30	947.30
0.500	947.30	947.30	947.30	947.30	947.30
0.750	947.30	947.30	947.30	947.30	947.30
1.000	947.30	947.30	947.30	947.30	947.30
1.250	947.30	947.30	947.30	947.30	947.30
1.500	947.30	947.30	947.30	947.30	947.30
1.750	947.30	947.30	947.30	947.30	947.30
2.000	947.30	947.30	947.30	947.30	947.30
2.250	947.30	947.30	947.30	947.30	947.30
2.500	947.30	947.30	947.30	947.30	947.30
2.750	947.30	947.30	947.30	947.30	947.30
3.000	947.30	947.30	947.30	947.30	947.30
3.250	947.30	947.30	947.30	947.30	947.30
3.500	947.30	947.30	947.30	947.30	947.30
3.750	947.30	947.30	947.30	947.30	947.30
4.000	947.31	947.31	947.31	947.32	947.32
4.250	947.33	947.34	947.35	947.36	947.36
4.500	947.37	947.38	947.39	947.41	947.42
4.750	947.43	947.44	947.45	947.47	947.48
5.000	947.49	947.50	947.52	947.53	947.55
5.250	947.56	947.57	947.59	947.60	947.62
5.500	947.63	947.65	947.66	947.68	947.69
5.750	947.71	947.72	947.74	947.76	947.77
6.000	947.79	947.80	947.81	947.81	947.81
6.250	947.82	947.83	947.83	947.84	947.85
6.500	947.85	947.86	947.87	947.88	947.89
6.750	947.90	947.91	947.93	947.94	947.96
7.000	947.98	948.00	948.01	948.02	948.03
7.250	948.04	948.06	948.07	948.08	948.10
7.500	948.12	948.13	948.15	948.17	948.19
7.750	948.21	948.23	948.25	948.28	948.30
8.000	948.31	948.33	948.34	948.36	948.38
8.250	948.39	948.41	948.43	948.45	948.47
8.500	948.49	948.51	948.52	948.54	948.55
8.750	948.57	948.59	948.61	948.63	948.65
9.000	948.67	948.69	948.71	948.74	948.76
9.250	948.78	948.81	948.82	948.84	948.85
9.500	948.87	948.89	948.91	948.93	948.94
9.750	948.96	948.98	949.00	949.03	949.05
10.000	949.07	949.09	949.12	949.14	949.17
10.250	949.20	949.22	949.25	949.28	949.31
10.500	949.33	949.35	949.38	949.40	949.43
10.750	949.45	949.48	949.51	949.54	949.57
11.000	949.60	949.64	949.68	949.72	949.76
11.250	949.80	949.83	949.87	949.91	949.95

Subsection: Time vs. Elevation
Label: Prop_Basin (OUT)
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
11.500	949.99	950.04	950.09	950.14	950.21
11.750	950.30	950.40	950.53	950.70	950.91
12.000	951.15	951.43	951.73	952.04	952.34
12.250	952.62	952.89	953.13	953.35	953.54
12.500	953.70	953.83	953.92	954.00	954.04
12.750	954.07	954.07	954.06	954.05	954.02
13.000	953.98	953.94	953.90	953.85	953.81
13.250	953.76	953.71	953.66	953.61	953.57
13.500	953.52	953.47	953.43	953.39	953.35
13.750	953.31	953.27	953.24	953.20	953.17
14.000	953.13	953.10	953.07	953.05	953.02
14.250	952.99	952.97	952.94	952.92	952.90
14.500	952.88	952.86	952.84	952.82	952.80
14.750	952.79	952.77	952.76	952.74	952.73
15.000	952.72	952.70	952.69	952.68	952.67
15.250	952.65	952.64	952.63	952.62	952.61
15.500	952.60	952.59	952.59	952.58	952.57
15.750	952.56	952.55	952.54	952.54	952.53
16.000	952.52	952.52	952.51	952.50	952.50
16.250	952.49	952.48	952.48	952.47	952.47
16.500	952.46	952.46	952.45	952.45	952.44
16.750	952.44	952.43	952.43	952.42	952.42
17.000	952.41	952.41	952.41	952.40	952.40
17.250	952.40	952.39	952.39	952.39	952.38
17.500	952.38	952.38	952.37	952.37	952.37
17.750	952.37	952.36	952.36	952.36	952.36
18.000	952.35	952.35	952.35	952.35	952.35
18.250	952.34	952.34	952.34	952.34	952.34
18.500	952.33	952.33	952.33	952.33	952.33
18.750	952.32	952.32	952.32	952.32	952.32
19.000	952.32	952.31	952.31	952.31	952.31
19.250	952.31	952.31	952.30	952.30	952.30
19.500	952.30	952.30	952.30	952.29	952.29
19.750	952.29	952.29	952.29	952.28	952.28
20.000	952.28	952.28	952.28	952.27	952.27
20.250	952.27	952.27	952.26	952.26	952.26
20.500	952.26	952.26	952.25	952.25	952.25
20.750	952.25	952.24	952.24	952.24	952.24
21.000	952.24	952.23	952.23	952.23	952.23
21.250	952.23	952.23	952.22	952.22	952.22
21.500	952.22	952.22	952.22	952.21	952.21
21.750	952.21	952.21	952.21	952.21	952.21
22.000	952.20	952.20	952.20	952.20	952.20
22.250	952.20	952.20	952.20	952.19	952.19
22.500	952.19	952.19	952.19	952.19	952.19
22.750	952.19	952.18	952.18	952.18	952.18

Subsection: Time vs. Elevation
 Label: Prop_Basin (OUT)
 Scenario: 10YR-24HR

Return Event: 10 years
 Storm Event: 10YR-24HR

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
23.000	952.18	952.18	952.18	952.18	952.18
23.250	952.18	952.18	952.17	952.17	952.17
23.500	952.17	952.17	952.17	952.17	952.17
23.750	952.17	952.17	952.17	952.16	952.16
24.000	952.16	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation
Label: Prop_Basin (OUT)
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	947.30	947.30	947.30	947.30	947.30
0.250	947.30	947.30	947.30	947.30	947.30
0.500	947.30	947.30	947.30	947.30	947.30
0.750	947.30	947.30	947.30	947.30	947.30
1.000	947.30	947.30	947.30	947.30	947.30
1.250	947.30	947.30	947.30	947.30	947.30
1.500	947.30	947.30	947.30	947.30	947.30
1.750	947.30	947.30	947.30	947.30	947.30
2.000	947.30	947.30	947.30	947.30	947.30
2.250	947.30	947.30	947.30	947.30	947.30
2.500	947.30	947.30	947.30	947.30	947.30
2.750	947.30	947.30	947.30	947.30	947.30
3.000	947.31	947.31	947.32	947.33	947.34
3.250	947.35	947.36	947.38	947.39	947.40
3.500	947.42	947.44	947.45	947.47	947.49
3.750	947.51	947.53	947.55	947.57	947.58
4.000	947.60	947.62	947.64	947.67	947.69
4.250	947.71	947.73	947.75	947.77	947.79
4.500	947.80	947.81	947.82	947.82	947.83
4.750	947.84	947.85	947.85	947.86	947.87
5.000	947.89	947.90	947.91	947.92	947.94
5.250	947.95	947.97	947.99	948.01	948.02
5.500	948.03	948.04	948.05	948.07	948.09
5.750	948.10	948.12	948.14	948.16	948.18
6.000	948.21	948.23	948.26	948.28	948.31
6.250	948.32	948.34	948.36	948.38	948.40
6.500	948.42	948.44	948.46	948.49	948.51
6.750	948.52	948.54	948.56	948.57	948.59
7.000	948.61	948.63	948.65	948.67	948.69
7.250	948.71	948.73	948.76	948.78	948.80
7.500	948.82	948.83	948.84	948.86	948.88
7.750	948.89	948.91	948.92	948.94	948.96
8.000	948.98	949.00	949.01	949.03	949.05
8.250	949.07	949.09	949.11	949.14	949.16
8.500	949.18	949.21	949.23	949.26	949.28
8.750	949.31	949.32	949.34	949.36	949.38
9.000	949.40	949.42	949.45	949.47	949.49
9.250	949.52	949.54	949.56	949.59	949.62
9.500	949.64	949.67	949.70	949.73	949.76
9.750	949.79	949.81	949.84	949.86	949.88
10.000	949.91	949.93	949.96	949.98	950.01
10.250	950.04	950.07	950.10	950.13	950.16
10.500	950.19	950.23	950.26	950.30	950.33
10.750	950.37	950.40	950.44	950.48	950.52
11.000	950.56	950.61	950.65	950.70	950.75
11.250	950.81	950.86	950.91	950.96	951.02

Subsection: Time vs. Elevation
Label: Prop_Basin (OUT)
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
11.500	951.09	951.15	951.23	951.31	951.40
11.750	951.52	951.66	951.84	952.07	952.36
12.000	952.68	953.03	953.39	953.73	954.04
12.250	954.33	954.58	954.80	954.99	955.14
12.500	955.25	955.33	955.38	955.40	955.39
12.750	955.35	955.30	955.23	955.15	955.07
13.000	954.98	954.88	954.79	954.70	954.61
13.250	954.52	954.43	954.34	954.26	954.18
13.500	954.11	954.03	953.96	953.90	953.83
13.750	953.78	953.72	953.66	953.61	953.56
14.000	953.51	953.47	953.43	953.39	953.35
14.250	953.32	953.28	953.25	953.22	953.19
14.500	953.16	953.13	953.10	953.08	953.05
14.750	953.03	953.01	952.99	952.97	952.95
15.000	952.94	952.92	952.90	952.89	952.88
15.250	952.86	952.85	952.84	952.83	952.82
15.500	952.81	952.80	952.79	952.78	952.77
15.750	952.76	952.75	952.74	952.73	952.72
16.000	952.71	952.71	952.70	952.69	952.68
16.250	952.67	952.66	952.66	952.65	952.64
16.500	952.64	952.63	952.62	952.61	952.61
16.750	952.60	952.60	952.59	952.58	952.58
17.000	952.57	952.57	952.56	952.56	952.55
17.250	952.55	952.54	952.54	952.53	952.53
17.500	952.53	952.52	952.52	952.51	952.51
17.750	952.51	952.50	952.50	952.50	952.49
18.000	952.49	952.49	952.48	952.48	952.48
18.250	952.47	952.47	952.47	952.47	952.46
18.500	952.46	952.46	952.45	952.45	952.45
18.750	952.45	952.44	952.44	952.44	952.44
19.000	952.43	952.43	952.43	952.43	952.42
19.250	952.42	952.42	952.42	952.41	952.41
19.500	952.41	952.41	952.40	952.40	952.40
19.750	952.40	952.39	952.39	952.39	952.39
20.000	952.38	952.38	952.38	952.38	952.37
20.250	952.37	952.37	952.37	952.37	952.36
20.500	952.36	952.36	952.36	952.35	952.35
20.750	952.35	952.35	952.35	952.35	952.34
21.000	952.34	952.34	952.34	952.34	952.34
21.250	952.33	952.33	952.33	952.33	952.33
21.500	952.33	952.33	952.33	952.33	952.32
21.750	952.32	952.32	952.32	952.32	952.32
22.000	952.32	952.32	952.32	952.32	952.32
22.250	952.32	952.31	952.31	952.31	952.31
22.500	952.31	952.31	952.31	952.31	952.31
22.750	952.31	952.31	952.31	952.31	952.31

Subsection: Time vs. Elevation
 Label: Prop_Basin (OUT)
 Scenario: 50YR-24HR

Return Event: 50 years
 Storm Event: 50YR-24HR

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
23.000	952.31	952.31	952.30	952.30	952.30
23.250	952.30	952.30	952.30	952.30	952.30
23.500	952.30	952.30	952.30	952.30	952.30
23.750	952.30	952.30	952.30	952.30	952.30
24.000	952.29	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation
 Label: Prop_Basin (OUT)
 Scenario: 100YR-24HR

Return Event: 100 years
 Storm Event: 100YR-24HR

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	947.30	947.30	947.30	947.30	947.30
0.250	947.30	947.30	947.30	947.30	947.30
0.500	947.30	947.30	947.30	947.30	947.30
0.750	947.30	947.30	947.30	947.30	947.30
1.000	947.30	947.30	947.30	947.30	947.30
1.250	947.30	947.30	947.30	947.30	947.30
1.500	947.30	947.30	947.30	947.30	947.30
1.750	947.30	947.30	947.30	947.30	947.30
2.000	947.30	947.30	947.30	947.30	947.30
2.250	947.30	947.30	947.30	947.30	947.30
2.500	947.30	947.30	947.30	947.31	947.31
2.750	947.32	947.33	947.34	947.35	947.36
3.000	947.38	947.39	947.41	947.43	947.45
3.250	947.47	947.49	947.51	947.54	947.56
3.500	947.58	947.61	947.63	947.65	947.68
3.750	947.70	947.73	947.75	947.78	947.80
4.000	947.81	947.81	947.82	947.83	947.84
4.250	947.85	947.85	947.86	947.88	947.89
4.500	947.90	947.91	947.93	947.94	947.96
4.750	947.98	948.00	948.01	948.02	948.03
5.000	948.04	948.06	948.07	948.09	948.11
5.250	948.13	948.15	948.17	948.19	948.22
5.500	948.25	948.27	948.30	948.32	948.34
5.750	948.36	948.38	948.40	948.42	948.44
6.000	948.47	948.49	948.51	948.53	948.55
6.250	948.56	948.58	948.60	948.62	948.64
6.500	948.67	948.69	948.71	948.73	948.76
6.750	948.78	948.80	948.82	948.84	948.85
7.000	948.87	948.89	948.90	948.92	948.94
7.250	948.96	948.98	949.00	949.02	949.04
7.500	949.06	949.08	949.10	949.12	949.15
7.750	949.17	949.19	949.22	949.24	949.27
8.000	949.29	949.31	949.33	949.35	949.36
8.250	949.38	949.40	949.42	949.44	949.46
8.500	949.48	949.50	949.52	949.55	949.57
8.750	949.59	949.62	949.64	949.67	949.70
9.000	949.72	949.75	949.78	949.81	949.83
9.250	949.86	949.88	949.90	949.93	949.95
9.500	949.98	950.01	950.03	950.06	950.09
9.750	950.12	950.15	950.18	950.21	950.24
10.000	950.27	950.30	950.33	950.36	950.39
10.250	950.42	950.46	950.49	950.52	950.56
10.500	950.60	950.63	950.67	950.71	950.76
10.750	950.80	950.84	950.88	950.93	950.97
11.000	951.02	951.07	951.12	951.18	951.24
11.250	951.30	951.35	951.42	951.48	951.55

Subsection: Time vs. Elevation
Label: Prop_Basin (OUT)
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
11.500	951.63	951.70	951.79	951.88	951.99
11.750	952.12	952.28	952.47	952.71	953.00
12.000	953.33	953.68	954.04	954.38	954.69
12.250	954.96	955.21	955.42	955.60	955.74
12.500	955.84	955.90	955.94	955.93	955.90
12.750	955.85	955.77	955.68	955.58	955.47
13.000	955.37	955.25	955.14	955.03	954.92
13.250	954.82	954.71	954.61	954.52	954.43
13.500	954.34	954.26	954.17	954.10	954.03
13.750	953.96	953.89	953.83	953.78	953.72
14.000	953.67	953.62	953.57	953.53	953.48
14.250	953.44	953.41	953.37	953.34	953.30
14.500	953.27	953.24	953.21	953.19	953.16
14.750	953.14	953.11	953.09	953.07	953.05
15.000	953.03	953.01	953.00	952.98	952.96
15.250	952.95	952.94	952.92	952.91	952.90
15.500	952.89	952.87	952.86	952.85	952.84
15.750	952.83	952.83	952.82	952.81	952.80
16.000	952.79	952.78	952.77	952.77	952.76
16.250	952.75	952.74	952.73	952.73	952.72
16.500	952.71	952.70	952.70	952.69	952.68
16.750	952.68	952.67	952.66	952.66	952.65
17.000	952.64	952.64	952.63	952.63	952.62
17.250	952.62	952.61	952.61	952.60	952.60
17.500	952.59	952.59	952.58	952.58	952.58
17.750	952.57	952.57	952.56	952.56	952.56
18.000	952.55	952.55	952.55	952.54	952.54
18.250	952.54	952.53	952.53	952.53	952.52
18.500	952.52	952.52	952.51	952.51	952.51
18.750	952.50	952.50	952.50	952.49	952.49
19.000	952.49	952.49	952.48	952.48	952.48
19.250	952.47	952.47	952.47	952.47	952.46
19.500	952.46	952.46	952.45	952.45	952.45
19.750	952.45	952.44	952.44	952.44	952.43
20.000	952.43	952.43	952.43	952.42	952.42
20.250	952.42	952.42	952.41	952.41	952.41
20.500	952.41	952.40	952.40	952.40	952.40
20.750	952.39	952.39	952.39	952.39	952.39
21.000	952.38	952.38	952.38	952.38	952.38
21.250	952.38	952.37	952.37	952.37	952.37
21.500	952.37	952.37	952.37	952.36	952.36
21.750	952.36	952.36	952.36	952.36	952.36
22.000	952.36	952.36	952.36	952.35	952.35
22.250	952.35	952.35	952.35	952.35	952.35
22.500	952.35	952.35	952.35	952.35	952.35
22.750	952.34	952.34	952.34	952.34	952.34

Subsection: Time vs. Elevation
Label: Prop_Basin (OUT)
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
23.000	952.34	952.34	952.34	952.34	952.34
23.250	952.34	952.34	952.34	952.34	952.34
23.500	952.34	952.33	952.33	952.33	952.33
23.750	952.33	952.33	952.33	952.33	952.33
24.000	952.33	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume
Label: Prop_Basin
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)
0.000	0	0	0	0	0
0.250	0	0	0	0	0
0.500	0	0	0	0	0
0.750	0	0	0	0	0
1.000	0	0	0	0	0
1.250	0	0	0	0	0
1.500	0	0	0	0	0
1.750	0	0	0	0	0
2.000	0	0	0	0	0
2.250	0	0	0	0	0
2.500	0	0	0	0	0
2.750	0	0	0	0	0
3.000	0	0	0	0	0
3.250	0	0	0	0	0
3.500	0	0	0	0	0
3.750	0	0	0	0	0
4.000	0	0	0	0	0
4.250	0	0	0	0	0
4.500	0	0	0	0	0
4.750	0	0	0	0	0
5.000	0	0	0	0	0
5.250	0	0	0	0	0
5.500	0	0	0	0	0
5.750	0	0	0	0	0
6.000	0	0	0	1	1
6.250	1	1	2	2	3
6.500	4	5	6	7	9
6.750	10	12	14	17	19
7.000	22	25	29	33	37
7.250	42	47	53	59	66
7.500	73	81	89	98	107
7.750	118	129	140	153	166
8.000	180	195	211	228	247
8.250	267	291	317	347	367
8.500	376	387	399	413	430
8.750	449	472	498	528	563
9.000	605	653	710	776	852
9.250	941	1,017	1,070	1,130	1,196
9.500	1,268	1,348	1,437	1,535	1,643
9.750	1,764	1,898	2,048	2,215	2,402
10.000	2,611	2,845	3,065	3,230	3,412
10.250	3,613	3,836	4,083	4,356	4,660
10.500	4,997	5,371	5,636	5,927	6,247
10.750	6,599	6,988	7,418	7,893	8,420
11.000	9,004	9,654	10,377	11,064	11,591
11.250	12,176	12,827	13,556	14,371	15,287

Subsection: Time vs. Volume
Label: Prop_Basin
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)
11.500	16,319	17,494	18,870	20,584	22,846
11.750	26,007	29,113	33,328	39,580	48,876
12.000	59,103	71,766	86,222	100,416	115,530
12.250	130,645	145,782	161,218	176,174	190,804
12.500	205,102	218,553	231,079	242,381	252,441
12.750	261,093	268,379	274,495	279,583	283,780
13.000	287,211	289,964	292,127	293,771	294,970
13.250	295,783	296,268	296,474	296,442	296,207
13.500	295,803	295,258	294,595	293,837	293,000
13.750	292,102	291,153	290,166	289,149	288,113
14.000	287,063	286,005	284,945	283,886	282,833
14.250	281,789	280,757	279,739	278,737	277,754
14.500	276,790	275,850	274,934	274,045	273,184
14.750	272,353	271,549	270,774	270,026	269,305
15.000	268,610	267,940	267,294	266,671	266,070
15.250	265,490	264,930	264,388	263,865	263,359
15.500	262,869	262,395	261,935	261,488	261,055
15.750	260,633	260,223	259,824	259,434	259,055
16.000	258,684	258,321	257,966	257,620	257,281
16.250	256,950	256,627	256,311	256,004	255,705
16.500	255,411	255,115	254,818	254,523	254,228
16.750	253,935	253,644	253,354	253,067	252,783
17.000	252,501	252,222	251,946	251,672	251,402
17.250	251,134	250,869	250,607	250,348	250,091
17.500	249,837	249,586	249,337	249,091	248,848
17.750	248,607	248,368	248,132	247,898	247,666
18.000	247,436	247,209	246,983	246,759	246,538
18.250	246,318	246,099	245,883	245,668	245,455
18.500	245,243	245,032	244,824	244,616	244,410
18.750	244,205	244,001	243,798	243,597	243,397
19.000	243,198	243,000	242,802	242,606	242,411
19.250	242,217	242,024	241,831	241,639	241,448
19.500	241,258	241,069	240,880	240,692	240,505
19.750	240,318	240,131	239,946	239,761	239,576
20.000	239,392	239,208	239,025	238,843	238,661
20.250	238,480	238,301	238,123	237,947	237,773
20.500	237,601	237,431	237,263	237,098	236,936
20.750	236,777	236,620	236,467	236,316	236,169
21.000	236,024	235,883	235,745	235,610	235,477
21.250	235,348	235,221	235,098	234,977	234,858
21.500	234,743	234,629	234,519	234,410	234,305
21.750	234,201	234,099	234,000	233,903	233,808
22.000	233,715	233,624	233,534	233,447	233,361
22.250	233,277	233,194	233,114	233,034	232,956
22.500	232,880	232,805	232,731	232,659	232,588
22.750	232,518	232,449	232,382	232,316	232,250

Subsection: Time vs. Volume
Label: Prop_Basin
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)
23.000	232,186	232,123	232,061	231,999	231,939
23.250	231,879	231,821	231,763	231,706	231,650
23.500	231,594	231,540	231,486	231,432	231,380
23.750	231,328	231,276	231,225	231,175	231,125
24.000	231,075	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume
Label: Prop_Basin
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)
0.000	0	0	0	0	0
0.250	0	0	0	0	0
0.500	0	0	0	0	0
0.750	0	0	0	0	0
1.000	0	0	0	0	0
1.250	0	0	0	0	0
1.500	0	0	0	0	0
1.750	0	0	0	0	0
2.000	0	0	0	0	0
2.250	0	0	0	0	0
2.500	0	0	0	0	0
2.750	0	0	0	0	0
3.000	0	0	0	0	0
3.250	0	0	0	0	0
3.500	0	0	0	0	0
3.750	0	0	0	0	0
4.000	0	0	0	0	0
4.250	0	0	0	0	1
4.500	1	2	2	3	5
4.750	6	8	10	13	16
5.000	20	25	30	36	43
5.250	51	59	69	80	93
5.500	106	122	138	156	176
5.750	198	222	248	276	306
6.000	338	365	374	384	395
6.250	407	421	435	451	469
6.500	489	510	535	562	593
6.750	628	668	714	767	827
7.000	897	977	1,028	1,076	1,129
7.250	1,188	1,253	1,325	1,405	1,493
7.500	1,590	1,696	1,813	1,942	2,083
7.750	2,238	2,407	2,591	2,793	3,012
8.000	3,148	3,293	3,450	3,618	3,799
8.250	3,994	4,204	4,432	4,679	4,947
8.500	5,237	5,486	5,702	5,934	6,184
8.750	6,452	6,740	7,050	7,384	7,742
9.000	8,128	8,543	8,989	9,468	9,982
9.250	10,532	11,025	11,390	11,776	12,182
9.500	12,609	13,058	13,530	14,025	14,547
9.750	15,096	15,676	16,288	16,934	17,614
10.000	18,331	19,089	19,891	20,740	21,642
10.250	22,600	23,620	24,709	25,871	26,911
10.500	27,764	28,670	29,635	30,663	31,761
10.750	32,934	34,190	35,536	36,981	38,532
11.000	40,201	41,997	43,935	46,031	48,304
11.250	50,780	52,746	54,883	57,211	59,753

Subsection: Time vs. Volume
Label: Prop_Basin
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
11.500	62,535	65,604	69,030	73,043	77,959
11.750	84,234	91,440	101,080	114,203	130,963
12.000	151,694	175,953	202,691	230,852	258,961
12.250	286,157	312,026	335,861	357,586	376,407
12.500	392,561	405,795	415,936	423,303	428,110
12.750	430,692	431,363	430,523	428,496	425,566
13.000	421,980	417,895	413,463	408,795	403,999
13.250	399,015	393,981	388,971	384,033	379,199
13.500	374,499	369,953	365,576	361,379	357,364
13.750	353,535	349,793	346,166	342,676	339,324
14.000	336,109	333,029	330,081	327,263	324,571
14.250	322,001	319,549	317,211	314,982	312,859
14.500	310,839	308,921	307,103	305,382	303,757
14.750	302,179	300,651	299,179	297,761	296,397
15.000	295,084	293,821	292,604	291,433	290,305
15.250	289,218	288,170	287,160	286,185	285,243
15.500	284,332	283,452	282,600	281,775	280,974
15.750	280,198	279,444	278,710	277,997	277,301
16.000	276,624	275,963	275,317	274,687	274,072
16.250	273,472	272,887	272,317	271,763	271,223
16.500	270,698	270,189	269,695	269,216	268,751
16.750	268,302	267,867	267,447	267,040	266,647
17.000	266,267	265,900	265,544	265,201	264,868
17.250	264,545	264,233	263,930	263,636	263,351
17.500	263,074	262,805	262,543	262,288	262,039
17.750	261,797	261,561	261,330	261,104	260,883
18.000	260,667	260,455	260,248	260,044	259,844
18.250	259,647	259,453	259,263	259,075	258,890
18.500	258,707	258,526	258,348	258,172	257,997
18.750	257,825	257,654	257,485	257,317	257,150
19.000	256,985	256,822	256,659	256,497	256,337
19.250	256,177	256,018	255,861	255,704	255,547
19.500	255,388	255,224	255,056	254,884	254,708
19.750	254,529	254,347	254,160	253,971	253,778
20.000	253,582	253,384	253,182	252,978	252,772
20.250	252,565	252,356	252,146	251,937	251,727
20.500	251,519	251,311	251,104	250,900	250,697
20.750	250,497	250,300	250,105	249,914	249,725
21.000	249,540	249,358	249,179	249,003	248,831
21.250	248,662	248,496	248,333	248,173	248,016
21.500	247,862	247,711	247,563	247,418	247,275
21.750	247,135	246,998	246,863	246,730	246,600
22.000	246,472	246,347	246,223	246,102	245,983
22.250	245,866	245,750	245,637	245,525	245,415
22.500	245,307	245,200	245,095	244,992	244,890
22.750	244,789	244,690	244,592	244,496	244,401

Subsection: Time vs. Volume
 Label: Prop_Basin
 Scenario: 10YR-24HR

Return Event: 10 years
 Storm Event: 10YR-24HR

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)
23.000	244,307	244,214	244,122	244,032	243,942
23.250	243,854	243,766	243,680	243,594	243,510
23.500	243,426	243,343	243,262	243,180	243,100
23.750	243,020	242,941	242,863	242,785	242,709
24.000	242,631	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume
Label: Prop_Basin
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)
0.000	0	0	0	0	0
0.250	0	0	0	0	0
0.500	0	0	0	0	0
0.750	0	0	0	0	0
1.000	0	0	0	0	0
1.250	0	0	0	0	0
1.500	0	0	0	0	0
1.750	0	0	0	0	0
2.000	0	0	0	0	0
2.250	0	0	0	0	0
2.500	0	0	0	0	0
2.750	0	0	0	0	0
3.000	0	0	0	0	0
3.250	0	1	1	2	3
3.500	5	7	11	15	20
3.750	26	34	43	54	67
4.000	82	99	119	141	166
4.250	194	226	262	301	345
4.500	370	382	396	412	430
4.750	450	471	495	521	550
5.000	582	617	657	701	752
5.250	810	877	955	1,018	1,065
5.500	1,119	1,179	1,248	1,325	1,412
5.750	1,509	1,619	1,742	1,879	2,033
6.000	2,205	2,396	2,609	2,846	3,067
6.250	3,231	3,409	3,604	3,814	4,043
6.500	4,291	4,559	4,850	5,164	5,455
6.750	5,687	5,934	6,197	6,476	6,773
7.000	7,088	7,422	7,777	8,153	8,552
7.250	8,974	9,422	9,895	10,397	10,912
7.500	11,240	11,584	11,944	12,321	12,715
7.750	13,128	13,560	14,012	14,485	14,979
8.000	15,495	16,035	16,598	17,185	17,797
8.250	18,436	19,104	19,805	20,539	21,310
8.500	22,121	22,974	23,873	24,821	25,821
8.750	26,759	27,477	28,231	29,024	29,858
9.000	30,734	31,656	32,625	33,643	34,710
9.250	35,829	36,999	38,221	39,497	40,827
9.500	42,212	43,653	45,151	46,709	48,331
9.750	50,020	51,510	52,846	54,235	55,682
10.000	57,191	58,766	60,412	62,137	63,943
10.250	65,824	67,780	69,818	71,941	74,156
10.500	76,468	78,883	81,408	84,044	86,452
10.750	88,974	91,622	94,402	97,324	100,397
11.000	103,631	107,037	110,630	114,427	118,449
11.250	122,671	126,770	131,142	135,811	140,802

Subsection: Time vs. Volume
Label: Prop_Basin
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)
11.500	146,118	151,832	158,103	165,255	173,415
11.750	183,576	196,517	213,180	234,372	260,791
12.000	291,947	326,229	361,701	396,263	428,347
12.250	458,168	484,846	508,709	528,918	545,540
12.500	558,500	567,506	572,745	574,538	573,246
12.750	569,401	563,478	555,838	547,104	537,673
13.000	527,882	517,917	507,939	497,802	487,847
13.250	478,156	468,808	459,846	451,176	442,770
13.500	434,755	427,141	419,930	413,125	406,710
13.750	400,593	394,705	389,119	383,826	378,817
14.000	374,081	369,606	365,380	361,390	357,625
14.250	354,072	350,656	347,354	344,196	341,178
14.500	338,299	335,556	332,950	330,480	328,141
14.750	325,931	323,841	321,867	320,000	318,236
15.000	316,567	314,988	313,493	312,077	310,733
15.250	309,458	308,246	307,092	305,993	304,945
15.500	303,944	302,972	302,011	301,070	300,147
15.750	299,242	298,354	297,482	296,625	295,782
16.000	294,953	294,136	293,332	292,540	291,761
16.250	290,995	290,243	289,505	288,783	288,076
16.500	287,385	286,710	286,052	285,411	284,788
16.750	284,182	283,594	283,023	282,469	281,931
17.000	281,410	280,904	280,413	279,937	279,475
17.250	279,026	278,589	278,165	277,752	277,351
17.500	276,959	276,578	276,206	275,843	275,488
17.750	275,142	274,803	274,471	274,146	273,827
18.000	273,514	273,207	272,906	272,609	272,317
18.250	272,030	271,747	271,468	271,192	270,920
18.500	270,651	270,385	270,122	269,861	269,603
18.750	269,347	269,094	268,843	268,593	268,346
19.000	268,100	267,856	267,614	267,373	267,133
19.250	266,895	266,657	266,421	266,187	265,953
19.500	265,720	265,488	265,256	265,026	264,796
19.750	264,566	264,338	264,110	263,882	263,655
20.000	263,428	263,201	262,976	262,751	262,527
20.250	262,306	262,086	261,869	261,656	261,446
20.500	261,240	261,038	260,841	260,649	260,463
20.750	260,281	260,106	259,936	259,772	259,613
21.000	259,460	259,312	259,170	259,032	258,900
21.250	258,772	258,649	258,530	258,415	258,304
21.500	258,197	258,093	257,993	257,897	257,803
21.750	257,712	257,624	257,539	257,456	257,376
22.000	257,297	257,221	257,147	257,075	257,004
22.250	256,935	256,868	256,802	256,737	256,674
22.500	256,612	256,551	256,491	256,432	256,374
22.750	256,317	256,261	256,206	256,151	256,097

Subsection: Time vs. Volume
Label: Prop_Basin
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)
23.000	256,044	255,991	255,939	255,887	255,836
23.250	255,786	255,736	255,686	255,637	255,588
23.500	255,539	255,491	255,441	255,390	255,338
23.750	255,285	255,231	255,176	255,120	255,062
24.000	255,003	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume
Label: Prop_Basin
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)
0.000	0	0	0	0	0
0.250	0	0	0	0	0
0.500	0	0	0	0	0
0.750	0	0	0	0	0
1.000	0	0	0	0	0
1.250	0	0	0	0	0
1.500	0	0	0	0	0
1.750	0	0	0	0	0
2.000	0	0	0	0	0
2.250	0	0	0	0	0
2.500	0	0	0	0	0
2.750	0	0	0	0	1
3.000	1	2	4	7	10
3.250	14	21	28	38	50
3.500	65	82	103	127	155
3.750	187	224	265	312	362
4.000	376	391	407	426	447
4.250	469	494	522	553	587
4.500	624	666	713	767	827
4.750	897	978	1,030	1,079	1,135
5.000	1,198	1,270	1,352	1,444	1,549
5.250	1,667	1,800	1,950	2,119	2,309
5.500	2,523	2,762	3,022	3,191	3,376
5.750	3,579	3,800	4,042	4,305	4,592
6.000	4,905	5,245	5,525	5,778	6,048
6.250	6,336	6,644	6,972	7,323	7,696
6.500	8,094	8,517	8,968	9,448	9,958
6.750	10,500	10,999	11,356	11,731	12,125
7.000	12,539	12,973	13,430	13,909	14,411
7.250	14,938	15,491	16,070	16,676	17,308
7.500	17,966	18,652	19,366	20,110	20,885
7.750	21,691	22,530	23,403	24,311	25,256
8.000	26,238	27,006	27,688	28,394	29,127
8.250	29,888	30,680	31,504	32,363	33,260
8.500	34,197	35,177	36,204	37,280	38,409
8.750	39,593	40,837	42,144	43,518	44,963
9.000	46,482	48,080	49,760	51,323	52,668
9.250	54,071	55,533	57,053	58,633	60,273
9.500	61,974	63,735	65,544	67,397	69,297
9.750	71,246	73,248	75,306	77,424	79,606
10.000	81,856	84,158	86,247	88,408	90,647
10.250	92,969	95,382	97,890	100,501	103,222
10.500	106,057	109,016	112,104	115,333	118,711
10.750	122,246	125,591	129,099	132,783	136,654
11.000	140,720	144,973	149,423	154,089	158,989
11.250	164,150	169,354	174,834	180,635	186,785

Subsection: Time vs. Volume
Label: Prop_Basin
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)
11.500	193,319	200,333	208,016	216,564	226,684
11.750	238,831	253,792	272,013	294,847	322,611
12.000	355,402	391,138	427,804	463,467	496,340
12.250	526,439	553,488	576,999	596,890	612,930
12.500	624,836	632,405	635,971	635,729	632,091
12.750	625,687	616,988	606,572	595,146	583,163
13.000	570,968	558,581	546,097	533,844	521,954
13.250	510,501	499,277	488,492	478,224	468,488
13.500	459,293	450,490	442,061	434,104	426,602
13.750	419,545	412,914	406,692	400,780	395,104
14.000	389,729	384,643	379,834	375,288	370,993
14.250	366,936	363,105	359,487	356,073	352,851
14.500	349,717	346,717	343,861	341,148	338,575
14.750	336,139	333,832	331,649	329,581	327,625
15.000	325,771	324,015	322,350	320,770	319,269
15.250	317,842	316,485	315,191	313,956	312,777
15.500	311,649	310,569	309,532	308,536	307,578
15.750	306,654	305,762	304,899	304,064	303,251
16.000	302,431	301,617	300,808	300,007	299,213
16.250	298,427	297,651	296,886	296,133	295,392
16.500	294,665	293,952	293,254	292,572	291,907
16.750	291,258	290,626	290,010	289,412	288,830
17.000	288,264	287,714	287,179	286,659	286,152
17.250	285,660	285,180	284,712	284,257	283,812
17.500	283,379	282,955	282,541	282,137	281,741
17.750	281,354	280,974	280,602	280,237	279,878
18.000	279,526	279,180	278,839	278,504	278,173
18.250	277,847	277,526	277,208	276,895	276,585
18.500	276,278	275,974	275,674	275,376	275,081
18.750	274,788	274,497	274,209	273,923	273,639
19.000	273,356	273,076	272,797	272,519	272,244
19.250	271,969	271,696	271,423	271,153	270,883
19.500	270,614	270,346	270,079	269,812	269,547
19.750	269,282	269,017	268,753	268,490	268,227
20.000	267,965	267,703	267,442	267,181	266,923
20.250	266,666	266,412	266,161	265,914	265,670
20.500	265,432	265,198	264,970	264,748	264,531
20.750	264,321	264,118	263,921	263,731	263,547
21.000	263,369	263,198	263,033	262,874	262,720
21.250	262,572	262,429	262,291	262,157	262,029
21.500	261,905	261,785	261,669	261,556	261,448
21.750	261,342	261,240	261,141	261,045	260,952
22.000	260,861	260,773	260,686	260,602	260,520
22.250	260,440	260,362	260,285	260,210	260,137
22.500	260,065	259,994	259,924	259,856	259,789
22.750	259,722	259,657	259,593	259,529	259,467

Subsection: Time vs. Volume
Label: Prop_Basin
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)	Volume (ft ³)
23.000	259,405	259,344	259,283	259,223	259,164
23.250	259,105	259,047	258,989	258,932	258,875
23.500	258,819	258,763	258,707	258,652	258,597
23.750	258,542	258,487	258,433	258,379	258,325
24.000	258,270	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Elevation-Area Volume Curve

Label: Prop_Basin

Scenario: 2YR-24HR

Return Event: 2 years

Storm Event: 2YR-24HR

Elevation (ft)	Planimeter (ft ²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft ³)
947.30	0.0	0.00	0.00	0
948.00	0.0	0.10	0.10	994
949.00	0.0	0.69	1.04	15,172
950.00	0.0	1.53	3.24	47,076
951.00	0.0	1.95	5.20	75,536
952.00	0.0	2.13	6.11	88,687
953.00	0.0	2.25	6.57	95,361
954.00	0.0	2.38	6.95	100,977
955.00	0.0	2.52	7.35	106,692
955.50	0.0	2.58	7.65	55,522
956.00	0.0	2.70	7.92	57,525

Volume (Total)
(ft³)

0
994
16,166
63,243
138,779
227,466
322,827
423,804
530,496
586,018
643,543

Subsection: Volume Equations
Label: Prop_Basin
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Pond Volume Equations

*** Incremental volume computed by the Conic Method for Reservoir Volumes.**

$$\text{Volume} = (1/3) * (\text{EL2} - \text{EL1}) * (\text{Area1} + \text{Area2} + \text{sqr}(\text{Area1} * \text{Area2}))$$

where:	EL1, EL2	Lower and upper elevations of the increment
	Area1, Area2	Areas computed for EL1, EL2, respectively
	Volume	Incremental volume between EL1 and EL2

Subsection: Elevation-Area Volume Curve

Label: Prop_Basin

Scenario: 10YR-24HR

Return Event: 10 years

Storm Event: 10YR-24HR

Elevation (ft)	Planimeter (ft ²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft ³)
947.30	0.0	0.00	0.00	0
948.00	0.0	0.10	0.10	994
949.00	0.0	0.69	1.04	15,172
950.00	0.0	1.53	3.24	47,076
951.00	0.0	1.95	5.20	75,536
952.00	0.0	2.13	6.11	88,687
953.00	0.0	2.25	6.57	95,361
954.00	0.0	2.38	6.95	100,977
955.00	0.0	2.52	7.35	106,692
955.50	0.0	2.58	7.65	55,522
956.00	0.0	2.70	7.92	57,525

Volume (Total)
(ft³)

0
994
16,166
63,243
138,779
227,466
322,827
423,804
530,496
586,018
643,543

Subsection: Volume Equations
Label: Prop_Basin
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Pond Volume Equations

*** Incremental volume computed by the Conic Method for Reservoir Volumes.**

$$\text{Volume} = (1/3) * (\text{EL2} - \text{EL1}) * (\text{Area1} + \text{Area2} + \text{sqr}(\text{Area1} * \text{Area2}))$$

where:	EL1, EL2	Lower and upper elevations of the increment
	Area1, Area2	Areas computed for EL1, EL2, respectively
	Volume	Incremental volume between EL1 and EL2

Subsection: Elevation-Area Volume Curve

Label: Prop_Basin

Scenario: 50YR-24HR

Return Event: 50 years

Storm Event: 50YR-24HR

Elevation (ft)	Planimeter (ft ²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft ³)
947.30	0.0	0.00	0.00	0
948.00	0.0	0.10	0.10	994
949.00	0.0	0.69	1.04	15,172
950.00	0.0	1.53	3.24	47,076
951.00	0.0	1.95	5.20	75,536
952.00	0.0	2.13	6.11	88,687
953.00	0.0	2.25	6.57	95,361
954.00	0.0	2.38	6.95	100,977
955.00	0.0	2.52	7.35	106,692
955.50	0.0	2.58	7.65	55,522
956.00	0.0	2.70	7.92	57,525

Volume (Total)
(ft³)

0
994
16,166
63,243
138,779
227,466
322,827
423,804
530,496
586,018
643,543

Subsection: Volume Equations
Label: Prop_Basin
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Pond Volume Equations

*** Incremental volume computed by the Conic Method for Reservoir Volumes.**

$$\text{Volume} = (1/3) * (\text{EL2} - \text{EL1}) * (\text{Area1} + \text{Area2} + \text{sqr}(\text{Area1} * \text{Area2}))$$

where:	EL1, EL2	Lower and upper elevations of the increment
	Area1, Area2	Areas computed for EL1, EL2, respectively
	Volume	Incremental volume between EL1 and EL2

Subsection: Elevation-Area Volume Curve

Label: Prop_Basin

Scenario: 100YR-24HR

Return Event: 100 years

Storm Event: 100YR-24HR

Elevation (ft)	Planimeter (ft ²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft ³)
947.30	0.0	0.00	0.00	0
948.00	0.0	0.10	0.10	994
949.00	0.0	0.69	1.04	15,172
950.00	0.0	1.53	3.24	47,076
951.00	0.0	1.95	5.20	75,536
952.00	0.0	2.13	6.11	88,687
953.00	0.0	2.25	6.57	95,361
954.00	0.0	2.38	6.95	100,977
955.00	0.0	2.52	7.35	106,692
955.50	0.0	2.58	7.65	55,522
956.00	0.0	2.70	7.92	57,525

Volume (Total)
(ft³)

0
994
16,166
63,243
138,779
227,466
322,827
423,804
530,496
586,018
643,543

Subsection: Volume Equations
Label: Prop_Basin
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Pond Volume Equations

*** Incremental volume computed by the Conic Method for Reservoir Volumes.**

$$\text{Volume} = (1/3) * (\text{EL2} - \text{EL1}) * (\text{Area1} + \text{Area2} + \text{sqr}(\text{Area1} * \text{Area2}))$$

where:	EL1, EL2	Lower and upper elevations of the increment
	Area1, Area2	Areas computed for EL1, EL2, respectively
	Volume	Incremental volume between EL1 and EL2

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Requested Pond Water Surface Elevations

Minimum (Headwater)	947.30 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	956.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Inlet Box	Riser - 2	Forward	Culvert - 2	952.00	956.00
Culvert-Circular	Culvert - 2	Forward	TW	947.00	956.00
Orifice-Circular	Orifice - 2	Forward	Culvert - 1	948.00	956.00
Orifice-Circular	Orifice - 3	Forward	Culvert - 1	948.50	956.00
Inlet Box	Riser - 1	Forward	Culvert - 1	952.00	956.00
Orifice-Circular	Orifice - 1	Forward	Culvert - 1	947.30	956.00
Culvert-Circular	Culvert - 1	Forward	TW	947.00	956.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Structure ID: Culvert - 1	
Structure Type: Culvert-Circular	
Number of Barrels	1
Diameter	48.0 in
Length	70.00 ft
Length (Computed Barrel)	70.00 ft
Slope (Computed)	0.007 ft/ft
Outlet Control Data	
Manning's n	0.013
Ke	0.50
Kb	0.00
Kr	1.00
Convergence Tolerance	0.00 ft
Inlet Control Data	
Equation Form	Form 1
K	0.0098
M	2.0000
C	0.0398
Y	0.6700
T1 ratio (HW/D)	1.16
T2 ratio (HW/D)	1.30
Slope Correction Factor	-0.50

Use unsubmerged inlet control 0 equation below T1 elevation.
Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control,
interpolate between flows at T1 & T2...

T1 Elevation	951.63 ft	T1 Flow	87.96 ft ³ /s
T2 Elevation	952.21 ft	T2 Flow	100.53 ft ³ /s

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Structure ID: Riser - 1	
Structure Type: Inlet Box	
Number of Openings	1
Elevation	952.00 ft
Orifice Area	20.0 ft ²
Orifice Coefficient	0.60
Weir Length	5.00 ft
Weir Coefficient	3.00 (ft ^{0.5})/s
K Reverse	1.00
Manning's n	0.00
Kev, Charged Riser	0.00
Weir Submergence	False
Orifice H to crest	False
Structure ID: Orifice - 1	
Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	947.30 ft
Orifice Diameter	4.0 in
Orifice Coefficient	0.60
Structure ID: Orifice - 2	
Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	948.00 ft
Orifice Diameter	4.0 in
Orifice Coefficient	0.60
Structure ID: Riser - 2	
Structure Type: Inlet Box	
Number of Openings	1
Elevation	952.00 ft
Orifice Area	20.0 ft ²
Orifice Coefficient	0.60
Weir Length	5.00 ft
Weir Coefficient	3.00 (ft ^{0.5})/s
K Reverse	1.00
Manning's n	0.00
Kev, Charged Riser	0.00
Weir Submergence	False
Orifice H to crest	False

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Structure ID: Culvert - 2	
Structure Type: Culvert-Circular	
Number of Barrels	1
Diameter	48.0 in
Length	70.00 ft
Length (Computed Barrel)	70.00 ft
Slope (Computed)	0.007 ft/ft
Outlet Control Data	
Manning's n	0.013
Ke	0.50
Kb	0.00
Kr	0.00
Convergence Tolerance	0.00 ft
Inlet Control Data	
Equation Form	Form 1
K	0.0098
M	2.0000
C	0.0398
Y	0.6700
T1 ratio (HW/D)	1.16
T2 ratio (HW/D)	1.30
Slope Correction Factor	-0.50

Use unsubmerged inlet control 0 equation below T1 elevation.
Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control,
interpolate between flows at T1 & T2...

T1 Elevation	951.63 ft	T1 Flow	87.96 ft ³ /s
T2 Elevation	952.21 ft	T2 Flow	100.53 ft ³ /s

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Structure ID: Orifice - 3	
Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	948.50 ft
Orifice Diameter	4.0 in
Orifice Coefficient	0.60
Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Circular)

Mannings open channel maximum capacity: 130.58 ft³/s
Upstream ID = Orifice - 2, Orifice - 3, Riser - 1, Orifice - 1
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Device Flow (ft ³ /s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)	Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft ³ /s)	Downstream Channel Tailwater (ft)
947.30	0.00	0.00	0.00	Free Outfall	0.00	0.00	(N/A)
947.80	0.24	947.21	Free Outfall	Free Outfall	0.00	0.00	(N/A)
948.00	0.31	947.24	Free Outfall	Free Outfall	0.00	0.00	(N/A)
948.30	0.52	947.31	Free Outfall	Free Outfall	0.00	0.00	(N/A)
948.50	0.67	0.00	Free Outfall	Free Outfall	0.00	0.00	(N/A)
948.80	0.96	947.42	Free Outfall	Free Outfall	0.00	0.00	(N/A)
949.30	1.34	947.51	Free Outfall	Free Outfall	0.00	0.00	(N/A)
949.80	1.63	947.55	Free Outfall	Free Outfall	0.00	0.00	(N/A)
950.30	1.84	947.59	Free Outfall	Free Outfall	0.00	0.00	(N/A)
950.80	2.08	947.63	Free Outfall	Free Outfall	0.00	0.00	(N/A)
951.30	2.24	947.65	Free Outfall	Free Outfall	0.00	0.00	(N/A)
951.80	2.40	947.67	Free Outfall	Free Outfall	0.00	0.00	(N/A)
952.00	2.46	947.68	Free Outfall	Free Outfall	0.00	0.00	(N/A)
952.30	5.00	947.98	Free Outfall	Free Outfall	0.00	0.00	(N/A)
952.80	13.30	948.64	Free Outfall	Free Outfall	0.00	0.00	(N/A)
953.30	24.76	949.28	Free Outfall	Free Outfall	0.00	0.00	(N/A)
953.80	38.70	949.93	Free Outfall	Free Outfall	0.00	0.01	(N/A)
954.30	54.74	950.58	Free Outfall	Free Outfall	0.00	0.02	(N/A)
954.80	72.62	951.25	Free Outfall	Free Outfall	0.00	0.03	(N/A)
955.30	92.15	951.97	Free Outfall	Free Outfall	0.00	0.07	(N/A)
955.80	116.25	953.07	Free Outfall	Free Outfall	0.00	0.00	(N/A)
956.00	124.50	953.57	Free Outfall	Free Outfall	0.00	0.00	(N/A)

Tailwater Error (ft)	Message
0.00	WS below an invert; no flow.
0.00	CRIT.DEPTH CONTROL Vh= .047ft Dcr= .141ft CRIT.DEPTH Hev= .00ft
0.00	CRIT.DEPTH CONTROL Vh= .053ft Dcr= .158ft CRIT.DEPTH Hev= .00ft
0.00	CRIT.DEPTH CONTROL Vh= .070ft Dcr= .207ft CRIT.DEPTH Hev= .00ft
0.00	CRIT.DEPTH CONTROL Vh= .079ft Dcr= .234ft CRIT.DEPTH Hev= .00ft

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Circular)

Mannings open channel maximum capacity: 130.58 ft³/s
Upstream ID = Orifice - 2, Orifice - 3, Riser - 1, Orifice - 1
Downstream ID = Tailwater (Pond Outfall)

Tailwater Error (ft)	Message
0.00	CRIT.DEPTH CONTROL Vh= .095ft Dcr= .281ft CRIT.DEPTH Hev= .00ft
0.00	CRIT.DEPTH CONTROL Vh= .113ft Dcr= .333ft CRIT.DEPTH Hev= .00ft
0.00	FLOW PRECEDENCE SET TO UPSTREAM CONTROLLING STRUCTURE
0.00	CRIT.DEPTH CONTROL Vh= .133ft Dcr= .390ft CRIT.DEPTH Hev= .00ft
0.00	FLOW PRECEDENCE SET TO UPSTREAM CONTROLLING STRUCTURE
0.00	FLOW PRECEDENCE SET TO UPSTREAM CONTROLLING STRUCTURE
0.00	CRIT.DEPTH CONTROL Vh= .152ft Dcr= .446ft CRIT.DEPTH Hev= .00ft
0.00	FLOW PRECEDENCE SET TO UPSTREAM CONTROLLING STRUCTURE
0.00	CRIT.DEPTH CONTROL Vh= .224ft Dcr= .647ft CRIT.DEPTH Hev= .00ft
0.00	CRIT.DEPTH CONTROL Vh= .380ft Dcr= 1.067ft CRIT.DEPTH Hev= .00ft
0.00	CRIT.DEPTH CONTROL Vh= .543ft Dcr= 1.470ft CRIT.DEPTH Hev= .00ft
0.00	CRIT.DEPTH CONTROL Vh= .715ft Dcr= 1.855ft CRIT.DEPTH Hev= .00ft
0.00	CRIT.DEPTH CONTROL Vh= .903ft Dcr= 2.225ft CRIT.DEPTH Hev= .00ft
0.00	CRIT.DEPTH CONTROL Vh= 1.118ft Dcr= 2.578ft CRIT.DEPTH Hev= .00ft

Subsection: Individual Outlet Curves
 Label: Basin Outlet Structure
 Scenario: 2YR-24HR

Return Event: 2 years
 Storm Event: 2YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
 Structure ID = Culvert - 1 (Culvert-Circular)

 Mannings open channel maximum capacity: 130.58 ft³/s
 Upstream ID = Orifice - 2, Orifice - 3, Riser - 1, Orifice - 1
 Downstream ID = Tailwater (Pond Outfall)

Tailwater Error (ft)	Message
0.00	CRIT.DEPTH CONTROL Vh= 1.375ft Dcr= 2.911ft CRIT.DEPTH Hev= .00ft
0.00	INLET CONTROL... Submerged: HW =6.07
0.00	INLET CONTROL... Submerged: HW =6.57

Subsection: Individual Outlet Curves
 Label: Basin Outlet Structure
 Scenario: 2YR-24HR

Return Event: 2 years
 Storm Event: 2YR-24HR

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)

Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft ³ /s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)	Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft ³ /s)	Downstream Channel Tailwater (ft)
947.30	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
947.80	0.00	0.00	0.00	947.21	0.00	0.00	(N/A)
948.00	0.00	0.00	0.00	947.24	0.00	0.00	(N/A)
948.30	0.00	0.00	0.00	947.31	0.00	0.00	(N/A)
948.50	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
948.80	0.00	0.00	0.00	947.42	0.00	0.00	(N/A)
949.30	0.00	0.00	0.00	947.51	0.00	0.00	(N/A)
949.80	0.00	0.00	0.00	947.55	0.00	0.00	(N/A)
950.30	0.00	0.00	0.00	947.59	0.00	0.00	(N/A)
950.80	0.00	0.00	0.00	947.63	0.00	0.00	(N/A)
951.30	0.00	0.00	0.00	947.65	0.00	0.00	(N/A)
951.80	0.00	0.00	0.00	947.67	0.00	0.00	(N/A)
952.00	0.00	0.00	0.00	947.68	0.00	0.00	(N/A)
952.30	2.46	952.30	Free Outfall	947.98	0.00	0.00	(N/A)
952.80	10.73	952.80	Free Outfall	948.64	0.00	0.00	(N/A)
953.30	22.23	953.30	Free Outfall	949.28	0.00	0.00	(N/A)
953.80	36.22	953.80	Free Outfall	949.93	0.00	0.00	(N/A)
954.30	52.32	954.30	Free Outfall	950.58	0.00	0.00	(N/A)
954.80	70.28	954.80	Free Outfall	951.25	0.00	0.00	(N/A)
955.30	89.92	955.30	Free Outfall	951.97	0.00	0.00	(N/A)
955.80	111.11	955.80	953.07	953.07	0.00	0.00	(N/A)
956.00	120.00	956.00	953.57	953.57	0.00	0.00	(N/A)

Tailwater Error (ft) Message

0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.

Subsection: Individual Outlet Curves
 Label: Basin Outlet Structure
 Scenario: 2YR-24HR

Return Event: 2 years
 Storm Event: 2YR-24HR

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)
 Downstream ID = Culvert - 1 (Culvert-Circular)

Tailwater Error (ft)	Message
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	Weir: H =0.3ft
0.00	Weir: H =0.8ft
0.00	Weir: H =1.3ft
0.00	Weir: H =1.8ft
0.00	Weir: H =2.3ft
0.00	Weir: H =2.8ft
0.00	Weir: H =3.3ft
0.00	FULLY CHARGED RISER: ADJUSTED TO WEIR: H =3.8ft
0.00	FULLY CHARGED RISER: ADJUSTED TO WEIR: H =4ft

Subsection: Individual Outlet Curves
 Label: Basin Outlet Structure
 Scenario: 2YR-24HR

Return Event: 2 years
 Storm Event: 2YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
 Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
 Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft ³ /s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)	Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft ³ /s)	Downstream Channel Tailwater (ft)
947.30	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
947.80	0.24	947.80	Free Outfall	947.21	0.00	0.00	(N/A)
948.00	0.31	948.00	Free Outfall	947.24	0.00	0.00	(N/A)
948.30	0.38	948.30	947.31	947.31	0.00	0.00	(N/A)
948.50	0.43	948.50	947.35	0.00	0.00	0.00	(N/A)
948.80	0.48	948.80	947.42	947.42	0.00	0.00	(N/A)
949.30	0.56	949.30	947.50	947.51	0.00	0.00	(N/A)
949.80	0.63	949.80	947.55	947.55	0.00	0.00	(N/A)
950.30	0.69	950.30	947.59	947.59	0.00	0.00	(N/A)
950.80	0.75	950.80	947.63	947.63	0.00	0.00	(N/A)
951.30	0.80	951.30	947.65	947.65	0.00	0.00	(N/A)
951.80	0.85	951.80	947.67	947.67	0.00	0.00	(N/A)
952.00	0.87	952.00	947.68	947.68	0.00	0.00	(N/A)
952.30	0.87	952.30	947.98	947.98	0.00	0.00	(N/A)
952.80	0.86	952.80	948.64	948.64	0.00	0.00	(N/A)
953.30	0.84	953.30	949.28	949.28	0.00	0.00	(N/A)
953.80	0.83	953.80	949.93	949.93	0.00	0.00	(N/A)
954.30	0.81	954.30	950.58	950.58	0.00	0.00	(N/A)
954.80	0.79	954.80	951.25	951.25	0.00	0.00	(N/A)
955.30	0.77	955.30	951.97	951.97	0.00	0.00	(N/A)
955.80	0.69	955.80	953.07	953.07	0.00	0.00	(N/A)
956.00	0.65	956.00	953.57	953.57	0.00	0.00	(N/A)

Tailwater Error (ft) Message

0.00	WS below an invert; no flow.
0.00	H =.33
0.00	H =.53
0.00	H =.83
0.00	H =1.03
0.00	H =1.33
0.00	H =1.80
0.00	H =2.25
0.00	H =2.71
0.00	H =3.17
0.00	H =3.65
0.00	H =4.13
0.00	H =4.32
0.00	H =4.32
0.00	H =4.16

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Tailwater Error (ft)	Message
0.00	H =4.02
0.00	H =3.87
0.00	H =3.72
0.00	H =3.55
0.00	H =3.33
0.00	H =2.73
0.00	H =2.43

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 2 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft ³ /s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)	Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft ³ /s)	Downstream Channel Tailwater (ft)
947.30	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
947.80	0.00	0.00	0.00	947.21	0.00	0.00	(N/A)
948.00	0.00	0.00	0.00	947.24	0.00	0.00	(N/A)
948.30	0.14	948.30	Free Outfall	947.31	0.00	0.00	(N/A)
948.50	0.24	948.50	Free Outfall	0.00	0.00	0.00	(N/A)
948.80	0.33	948.80	Free Outfall	947.42	0.00	0.00	(N/A)
949.30	0.45	949.30	Free Outfall	947.51	0.00	0.00	(N/A)
949.80	0.54	949.80	Free Outfall	947.55	0.00	0.00	(N/A)
950.30	0.61	950.30	Free Outfall	947.59	0.00	0.00	(N/A)
950.80	0.68	950.80	Free Outfall	947.63	0.00	0.00	(N/A)
951.30	0.74	951.30	Free Outfall	947.65	0.00	0.00	(N/A)
951.80	0.80	951.80	Free Outfall	947.67	0.00	0.00	(N/A)
952.00	0.82	952.00	Free Outfall	947.68	0.00	0.00	(N/A)
952.30	0.85	952.30	Free Outfall	947.98	0.00	0.00	(N/A)
952.80	0.86	952.80	948.64	948.64	0.00	0.00	(N/A)
953.30	0.84	953.30	949.28	949.28	0.00	0.00	(N/A)
953.80	0.83	953.80	949.93	949.93	0.00	0.00	(N/A)
954.30	0.81	954.30	950.58	950.58	0.00	0.00	(N/A)
954.80	0.79	954.80	951.25	951.25	0.00	0.00	(N/A)
955.30	0.77	955.30	951.97	951.97	0.00	0.00	(N/A)
955.80	0.69	955.80	953.07	953.07	0.00	0.00	(N/A)
956.00	0.65	956.00	953.57	953.57	0.00	0.00	(N/A)

Tailwater Error (ft) Message

0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	CRIT.DEPTH CONTROL Vh= .090ft Dcr= .210ft CRIT.DEPTH Hev= .00ft
0.00	H =.33
0.00	H =.63
0.00	H =1.13
0.00	H =1.63
0.00	H =2.13
0.00	H =2.63
0.00	H =3.13
0.00	H =3.63

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 2 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Tailwater Error (ft)	Message
0.00	H =3.83
0.00	H =4.13
0.00	H =4.16
0.00	H =4.02
0.00	H =3.87
0.00	H =3.72
0.00	H =3.55
0.00	H =3.33
0.00	H =2.73
0.00	H =2.43

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = Riser - 2 (Inlet Box)

Upstream ID = (Pond Water Surface)

Downstream ID = Culvert - 2 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft ³ /s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)	Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft ³ /s)	Downstream Channel Tailwater (ft)
947.30	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
947.80	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
948.00	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
948.30	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
948.50	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
948.80	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
949.30	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
949.80	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
950.30	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
950.80	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
951.30	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
951.80	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
952.00	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
952.30	2.46	952.30	Free Outfall	947.68	0.00	0.00	(N/A)
952.80	10.73	952.80	Free Outfall	948.46	0.00	0.00	(N/A)
953.30	22.23	953.30	Free Outfall	949.15	0.00	0.00	(N/A)
953.80	36.22	953.80	Free Outfall	949.82	0.00	0.00	(N/A)
954.30	52.32	954.30	Free Outfall	950.49	0.00	0.00	(N/A)
954.80	70.28	954.80	Free Outfall	951.17	0.00	0.00	(N/A)
955.30	89.92	955.30	Free Outfall	951.89	0.00	0.00	(N/A)
955.80	111.11	955.80	952.79	952.79	0.00	0.00	(N/A)
956.00	120.00	956.00	953.30	953.30	0.00	0.00	(N/A)

Tailwater Error (ft) Message

0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.

Subsection: Individual Outlet Curves
 Label: Basin Outlet Structure
 Scenario: 2YR-24HR

Return Event: 2 years
 Storm Event: 2YR-24HR

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = Riser - 2 (Inlet Box)

Upstream ID = (Pond Water Surface)
 Downstream ID = Culvert - 2 (Culvert-Circular)

Tailwater Error (ft)	Message
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	Weir: H =0.3ft
0.00	Weir: H =0.8ft
0.00	Weir: H =1.3ft
0.00	Weir: H =1.8ft
0.00	Weir: H =2.3ft
0.00	Weir: H =2.8ft
0.00	Weir: H =3.3ft
0.00	FULLY CHARGED RISER: ADJUSTED TO WEIR: H =3.8ft
0.00	FULLY CHARGED RISER: ADJUSTED TO WEIR: H =4ft

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 2 (Culvert-Circular)

Mannings open channel maximum capacity: 130.58 ft³/s
Upstream ID = Riser - 2 (Inlet Box)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Device Flow (ft ³ /s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)	Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft ³ /s)	Downstream Channel Tailwater (ft)
947.30	0.00	0.00	0.00	Free Outfall	0.00	0.00	(N/A)
947.80	0.00	0.00	0.00	Free Outfall	0.00	0.00	(N/A)
948.00	0.00	0.00	0.00	Free Outfall	0.00	0.00	(N/A)
948.30	0.00	0.00	0.00	Free Outfall	0.00	0.00	(N/A)
948.50	0.00	0.00	0.00	Free Outfall	0.00	0.00	(N/A)
948.80	0.00	0.00	0.00	Free Outfall	0.00	0.00	(N/A)
949.30	0.00	0.00	0.00	Free Outfall	0.00	0.00	(N/A)
949.80	0.00	0.00	0.00	Free Outfall	0.00	0.00	(N/A)
950.30	0.00	0.00	0.00	Free Outfall	0.00	0.00	(N/A)
950.80	0.00	0.00	0.00	Free Outfall	0.00	0.00	(N/A)
951.30	0.00	0.00	0.00	Free Outfall	0.00	0.00	(N/A)
951.80	0.00	0.00	0.00	Free Outfall	0.00	0.00	(N/A)
952.00	0.00	0.00	0.00	Free Outfall	0.00	0.00	(N/A)
952.30	2.47	947.68	Free Outfall	Free Outfall	0.00	0.00	(N/A)
952.80	10.74	948.46	Free Outfall	Free Outfall	0.00	0.01	(N/A)
953.30	22.25	949.15	Free Outfall	Free Outfall	0.00	0.02	(N/A)
953.80	36.21	949.82	Free Outfall	Free Outfall	0.00	0.01	(N/A)
954.30	52.34	950.49	Free Outfall	Free Outfall	0.00	0.01	(N/A)
954.80	70.27	951.17	Free Outfall	Free Outfall	0.00	0.01	(N/A)
955.30	89.94	951.89	Free Outfall	Free Outfall	0.00	0.01	(N/A)
955.80	111.25	952.79	Free Outfall	Free Outfall	0.00	0.00	(N/A)
956.00	120.14	953.30	Free Outfall	Free Outfall	0.00	0.00	(N/A)

Tailwater Error (ft) Message

0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 2 (Culvert-Circular)

Mannings open channel maximum capacity: 130.58 ft³/s
Upstream ID = Riser - 2 (Inlet Box)
Downstream ID = Tailwater (Pond Outfall)

Tailwater Error (ft)	Message
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	FLOW PRECEDENCE SET TO UPSTREAM CONTROLLING STRUCTURE
0.00	CRIT.DEPTH CONTROL Vh= .338ft Dcr= .956ft CRIT.DEPTH Hev= .00ft
0.00	CRIT.DEPTH CONTROL Vh= .510ft Dcr= 1.391ft CRIT.DEPTH Hev= .00ft
0.00	CRIT.DEPTH CONTROL Vh= .685ft Dcr= 1.792ft CRIT.DEPTH Hev= .00ft
0.00	CRIT.DEPTH CONTROL Vh= .875ft Dcr= 2.173ft CRIT.DEPTH Hev= .00ft
0.00	CRIT.DEPTH CONTROL Vh= 1.089ft Dcr= 2.534ft CRIT.DEPTH Hev= .00ft
0.00	CRIT.DEPTH CONTROL Vh= 1.344ft Dcr= 2.875ft CRIT.DEPTH Hev= .00ft
0.00	INLET CONTROL... Submerged: HW =5.79
0.00	INLET CONTROL... Submerged: HW =6.30

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 3 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft ³ /s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)	Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft ³ /s)	Downstream Channel Tailwater (ft)
947.30	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
947.80	0.00	0.00	0.00	947.21	0.00	0.00	(N/A)
948.00	0.00	0.00	0.00	947.24	0.00	0.00	(N/A)
948.30	0.00	0.00	0.00	947.31	0.00	0.00	(N/A)
948.50	0.00	0.00	0.00	0.00	0.00	0.00	(N/A)
948.80	0.14	948.80	Free Outfall	947.42	0.00	0.00	(N/A)
949.30	0.33	949.30	Free Outfall	947.51	0.00	0.00	(N/A)
949.80	0.45	949.80	Free Outfall	947.55	0.00	0.00	(N/A)
950.30	0.54	950.30	Free Outfall	947.59	0.00	0.00	(N/A)
950.80	0.61	950.80	Free Outfall	947.63	0.00	0.00	(N/A)
951.30	0.68	951.30	Free Outfall	947.65	0.00	0.00	(N/A)
951.80	0.74	951.80	Free Outfall	947.67	0.00	0.00	(N/A)
952.00	0.77	952.00	Free Outfall	947.68	0.00	0.00	(N/A)
952.30	0.80	952.30	Free Outfall	947.98	0.00	0.00	(N/A)
952.80	0.85	952.80	948.64	948.64	0.00	0.00	(N/A)
953.30	0.84	953.30	949.28	949.28	0.00	0.00	(N/A)
953.80	0.83	953.80	949.93	949.93	0.00	0.00	(N/A)
954.30	0.81	954.30	950.58	950.58	0.00	0.00	(N/A)
954.80	0.79	954.80	951.25	951.25	0.00	0.00	(N/A)
955.30	0.77	955.30	951.97	951.97	0.00	0.00	(N/A)
955.80	0.69	955.80	953.07	953.07	0.00	0.00	(N/A)
956.00	0.65	956.00	953.57	953.57	0.00	0.00	(N/A)

Tailwater Error (ft) Message

0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	WS below an invert; no flow.
0.00	CRIT.DEPTH CONTROL Vh= .090ft Dcr= .210ft CRIT.DEPTH Hev= .00ft
0.00	H =.63
0.00	H =1.13
0.00	H =1.63
0.00	H =2.13

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 3 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Tailwater Error (ft)	Message
0.00	H =2.63
0.00	H =3.13
0.00	H =3.33
0.00	H =3.63
0.00	H =4.13
0.00	H =4.02
0.00	H =3.87
0.00	H =3.72
0.00	H =3.55
0.00	H =3.33
0.00	H =2.73
0.00	H =2.43

Subsection: Composite Rating Curve
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
947.30	0.00	(N/A)	0.00
947.80	0.24	(N/A)	0.00
948.00	0.31	(N/A)	0.00
948.30	0.52	(N/A)	0.00
948.50	0.67	(N/A)	0.00
948.80	0.96	(N/A)	0.00
949.30	1.34	(N/A)	0.00
949.80	1.61	(N/A)	0.00
950.30	1.84	(N/A)	0.00
950.80	2.04	(N/A)	0.00
951.30	2.23	(N/A)	0.00
951.80	2.40	(N/A)	0.00
952.00	2.46	(N/A)	0.00
952.30	7.46	(N/A)	0.00
952.80	24.05	(N/A)	0.00
953.30	47.01	(N/A)	0.00
953.80	74.91	(N/A)	0.00
954.30	107.07	(N/A)	0.00
954.80	142.89	(N/A)	0.00
955.30	182.09	(N/A)	0.00
955.80	224.31	(N/A)	0.00
956.00	241.96	(N/A)	0.00

Contributing Structures

(no Q: Riser - 2,Culvert -
2,Orifice - 2,Orifice -
3,Riser - 1,Orifice -
1,Culvert - 1)
Orifice - 1,Culvert - 1
(no Q: Riser - 2,Culvert -
2,Orifice - 2,Orifice -
3,Riser - 1)
Orifice - 1,Culvert - 1
(no Q: Riser - 2,Culvert -
2,Orifice - 2,Orifice -
3,Riser - 1)
Orifice - 2,Orifice -
1,Culvert - 1 (no Q: Riser
- 2,Culvert - 2,Orifice -
3,Riser - 1)
Orifice - 2,Orifice -
1,Culvert - 1 (no Q: Riser
- 2,Culvert - 2,Orifice -
3,Riser - 1)
Orifice - 2,Orifice -
3,Orifice - 1,Culvert - 1
(no Q: Riser - 2,Culvert -
2,Riser - 1)

Subsection: Composite Rating Curve
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Composite Outflow Summary

Contributing Structures
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1

Subsection: Composite Rating Curve
Label: Basin Outlet Structure
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Composite Outflow Summary

Contributing Structures
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Requested Pond Water Surface Elevations

Minimum (Headwater)	947.30 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	956.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Inlet Box	Riser - 2	Forward	Culvert - 2	952.00	956.00
Culvert-Circular	Culvert - 2	Forward	TW	947.00	956.00
Orifice-Circular	Orifice - 2	Forward	Culvert - 1	948.00	956.00
Orifice-Circular	Orifice - 3	Forward	Culvert - 1	948.50	956.00
Inlet Box	Riser - 1	Forward	Culvert - 1	952.00	956.00
Orifice-Circular	Orifice - 1	Forward	Culvert - 1	947.30	956.00
Culvert-Circular	Culvert - 1	Forward	TW	947.00	956.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Structure ID: Culvert - 1	
Structure Type: Culvert-Circular	
Number of Barrels	1
Diameter	48.0 in
Length	70.00 ft
Length (Computed Barrel)	70.00 ft
Slope (Computed)	0.007 ft/ft
Outlet Control Data	
Manning's n	0.013
Ke	0.50
Kb	0.00
Kr	1.00
Convergence Tolerance	0.00 ft
Inlet Control Data	
Equation Form	Form 1
K	0.0098
M	2.0000
C	0.0398
Y	0.6700
T1 ratio (HW/D)	1.16
T2 ratio (HW/D)	1.30
Slope Correction Factor	-0.50

Use unsubmerged inlet control 0 equation below T1 elevation.
Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control,
interpolate between flows at T1 & T2...

T1 Elevation	951.63 ft	T1 Flow	87.96 ft ³ /s
T2 Elevation	952.21 ft	T2 Flow	100.53 ft ³ /s

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Structure ID: Riser - 1	
Structure Type: Inlet Box	
Number of Openings	1
Elevation	952.00 ft
Orifice Area	20.0 ft ²
Orifice Coefficient	0.60
Weir Length	5.00 ft
Weir Coefficient	3.00 (ft ^{0.5})/s
K Reverse	1.00
Manning's n	0.00
Kev, Charged Riser	0.00
Weir Submergence	False
Orifice H to crest	False

Structure ID: Orifice - 1	
Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	947.30 ft
Orifice Diameter	4.0 in
Orifice Coefficient	0.60

Structure ID: Orifice - 2	
Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	948.00 ft
Orifice Diameter	4.0 in
Orifice Coefficient	0.60

Structure ID: Riser - 2	
Structure Type: Inlet Box	
Number of Openings	1
Elevation	952.00 ft
Orifice Area	20.0 ft ²
Orifice Coefficient	0.60
Weir Length	5.00 ft
Weir Coefficient	3.00 (ft ^{0.5})/s
K Reverse	1.00
Manning's n	0.00
Kev, Charged Riser	0.00
Weir Submergence	False
Orifice H to crest	False

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Structure ID: Culvert - 2	
Structure Type: Culvert-Circular	
Number of Barrels	1
Diameter	48.0 in
Length	70.00 ft
Length (Computed Barrel)	70.00 ft
Slope (Computed)	0.007 ft/ft
Outlet Control Data	
Manning's n	0.013
Ke	0.50
Kb	0.00
Kr	0.00
Convergence Tolerance	0.00 ft
Inlet Control Data	
Equation Form	Form 1
K	0.0098
M	2.0000
C	0.0398
Y	0.6700
T1 ratio (HW/D)	1.16
T2 ratio (HW/D)	1.30
Slope Correction Factor	-0.50

Use unsubmerged inlet control 0 equation below T1 elevation.
Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control,
interpolate between flows at T1 & T2...

T1 Elevation	951.63 ft	T1 Flow	87.96 ft ³ /s
T2 Elevation	952.21 ft	T2 Flow	100.53 ft ³ /s

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Structure ID: Orifice - 3	
Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	948.50 ft
Orifice Diameter	4.0 in
Orifice Coefficient	0.60
Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = ()

Upstream ID =

Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = ()

Upstream ID =
Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = ()

Upstream ID =
Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = ()

Upstream ID =
Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
 Label: Basin Outlet Structure
 Scenario: 10YR-24HR

Return Event: 10 years
 Storm Event: 10YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
 Structure ID = ()

Upstream ID =
 Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = ()

Upstream ID =
Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = ()

Upstream ID =
Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Composite Rating Curve
Label: Basin Outlet Structure
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
947.30	0.00	(N/A)	0.00
947.80	0.24	(N/A)	0.00
948.00	0.31	(N/A)	0.00
948.30	0.52	(N/A)	0.00
948.50	0.67	(N/A)	0.00
948.80	0.96	(N/A)	0.00
949.30	1.34	(N/A)	0.00
949.80	1.61	(N/A)	0.00
950.30	1.84	(N/A)	0.00
950.80	2.04	(N/A)	0.00
951.30	2.23	(N/A)	0.00
951.80	2.40	(N/A)	0.00
952.00	2.46	(N/A)	0.00
952.30	7.46	(N/A)	0.00
952.80	24.05	(N/A)	0.00
953.30	47.01	(N/A)	0.00
953.80	74.91	(N/A)	0.00
954.30	107.07	(N/A)	0.00
954.80	142.89	(N/A)	0.00
955.30	182.09	(N/A)	0.00
955.80	224.31	(N/A)	0.00
956.00	241.96	(N/A)	0.00

Contributing Structures

(no Q: Riser - 2,Culvert -
2,Orifice - 2,Orifice -
3,Riser - 1,Orifice -
1,Culvert - 1)
Orifice - 1,Culvert - 1
(no Q: Riser - 2,Culvert -
2,Orifice - 2,Orifice -
3,Riser - 1)
Orifice - 1,Culvert - 1
(no Q: Riser - 2,Culvert -
2,Orifice - 2,Orifice -
3,Riser - 1)
Orifice - 2,Orifice -
1,Culvert - 1 (no Q: Riser
- 2,Culvert - 2,Orifice -
3,Riser - 1)
Orifice - 2,Orifice -
1,Culvert - 1 (no Q: Riser
- 2,Culvert - 2,Orifice -
3,Riser - 1)
Orifice - 2,Orifice -
3,Orifice - 1,Culvert - 1
(no Q: Riser - 2,Culvert -
2,Riser - 1)

Return Event: 10 years
Storm Event: 10YR-24HR

Contributing Structures

[illegible]

Subsection: Composite Rating Curve
Label: Basin Outlet Structure
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Composite Outflow Summary

Contributing Structures
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	947.30 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	956.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Inlet Box	Riser - 2	Forward	Culvert - 2	952.00	956.00
Culvert-Circular	Culvert - 2	Forward	TW	947.00	956.00
Orifice-Circular	Orifice - 2	Forward	Culvert - 1	948.00	956.00
Orifice-Circular	Orifice - 3	Forward	Culvert - 1	948.50	956.00
Inlet Box	Riser - 1	Forward	Culvert - 1	952.00	956.00
Orifice-Circular	Orifice - 1	Forward	Culvert - 1	947.30	956.00
Culvert-Circular	Culvert - 1	Forward	TW	947.00	956.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Structure ID: Culvert - 1	
Structure Type: Culvert-Circular	
Number of Barrels	1
Diameter	48.0 in
Length	70.00 ft
Length (Computed Barrel)	70.00 ft
Slope (Computed)	0.007 ft/ft
Outlet Control Data	
Manning's n	0.013
Ke	0.50
Kb	0.00
Kr	1.00
Convergence Tolerance	0.00 ft
Inlet Control Data	
Equation Form	Form 1
K	0.0098
M	2.0000
C	0.0398
Y	0.6700
T1 ratio (HW/D)	1.16
T2 ratio (HW/D)	1.30
Slope Correction Factor	-0.50

Use unsubmerged inlet control 0 equation below T1 elevation.
Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control,
interpolate between flows at T1 & T2...

T1 Elevation	951.63 ft	T1 Flow	87.96 ft ³ /s
T2 Elevation	952.21 ft	T2 Flow	100.53 ft ³ /s

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Structure ID: Riser - 1	
Structure Type: Inlet Box	
Number of Openings	1
Elevation	952.00 ft
Orifice Area	20.0 ft ²
Orifice Coefficient	0.60
Weir Length	5.00 ft
Weir Coefficient	3.00 (ft ^{0.5})/s
K Reverse	1.00
Manning's n	0.00
Kev, Charged Riser	0.00
Weir Submergence	False
Orifice H to crest	False
Structure ID: Orifice - 1	
Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	947.30 ft
Orifice Diameter	4.0 in
Orifice Coefficient	0.60
Structure ID: Orifice - 2	
Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	948.00 ft
Orifice Diameter	4.0 in
Orifice Coefficient	0.60
Structure ID: Riser - 2	
Structure Type: Inlet Box	
Number of Openings	1
Elevation	952.00 ft
Orifice Area	20.0 ft ²
Orifice Coefficient	0.60
Weir Length	5.00 ft
Weir Coefficient	3.00 (ft ^{0.5})/s
K Reverse	1.00
Manning's n	0.00
Kev, Charged Riser	0.00
Weir Submergence	False
Orifice H to crest	False

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Structure ID: Culvert - 2	
Structure Type: Culvert-Circular	
Number of Barrels	1
Diameter	48.0 in
Length	70.00 ft
Length (Computed Barrel)	70.00 ft
Slope (Computed)	0.007 ft/ft
Outlet Control Data	
Manning's n	0.013
Ke	0.50
Kb	0.00
Kr	0.00
Convergence Tolerance	0.00 ft
Inlet Control Data	
Equation Form	Form 1
K	0.0098
M	2.0000
C	0.0398
Y	0.6700
T1 ratio (HW/D)	1.16
T2 ratio (HW/D)	1.30
Slope Correction Factor	-0.50

Use unsubmerged inlet control 0 equation below T1 elevation.
Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control,
interpolate between flows at T1 & T2...

T1 Elevation	951.63 ft	T1 Flow	87.96 ft ³ /s
T2 Elevation	952.21 ft	T2 Flow	100.53 ft ³ /s

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Structure ID: Orifice - 3	
Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	948.50 ft
Orifice Diameter	4.0 in
Orifice Coefficient	0.60
Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = ()

Upstream ID =

Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = ()

Upstream ID =
Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = ()

Upstream ID =
Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = ()

Upstream ID =
Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = ()

Upstream ID =
Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = ()

Upstream ID =

Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = ()

Upstream ID =

Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Composite Rating Curve
Label: Basin Outlet Structure
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
947.30	0.00	(N/A)	0.00
947.80	0.24	(N/A)	0.00
948.00	0.31	(N/A)	0.00
948.30	0.52	(N/A)	0.00
948.50	0.67	(N/A)	0.00
948.80	0.96	(N/A)	0.00
949.30	1.34	(N/A)	0.00
949.80	1.61	(N/A)	0.00
950.30	1.84	(N/A)	0.00
950.80	2.04	(N/A)	0.00
951.30	2.23	(N/A)	0.00
951.80	2.40	(N/A)	0.00
952.00	2.46	(N/A)	0.00
952.30	7.46	(N/A)	0.00
952.80	24.05	(N/A)	0.00
953.30	47.01	(N/A)	0.00
953.80	74.91	(N/A)	0.00
954.30	107.07	(N/A)	0.00
954.80	142.89	(N/A)	0.00
955.30	182.09	(N/A)	0.00
955.80	224.31	(N/A)	0.00
956.00	241.96	(N/A)	0.00

Contributing Structures

(no Q: Riser - 2,Culvert -
2,Orifice - 2,Orifice -
3,Riser - 1,Orifice -
1,Culvert - 1)
Orifice - 1,Culvert - 1
(no Q: Riser - 2,Culvert -
2,Orifice - 2,Orifice -
3,Riser - 1)
Orifice - 1,Culvert - 1
(no Q: Riser - 2,Culvert -
2,Orifice - 2,Orifice -
3,Riser - 1)
Orifice - 2,Orifice -
1,Culvert - 1 (no Q: Riser
- 2,Culvert - 2,Orifice -
3,Riser - 1)
Orifice - 2,Orifice -
1,Culvert - 1 (no Q: Riser
- 2,Culvert - 2,Orifice -
3,Riser - 1)
Orifice - 2,Orifice -
3,Orifice - 1,Culvert - 1
(no Q: Riser - 2,Culvert -
2,Riser - 1)

Subsection: Composite Rating Curve
 Label: Basin Outlet Structure
 Scenario: 50YR-24HR

Return Event: 50 years
 Storm Event: 50YR-24HR

Composite Outflow Summary

Contributing Structures
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1

Subsection: Composite Rating Curve
Label: Basin Outlet Structure
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Composite Outflow Summary

Contributing Structures
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	947.30 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	956.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Inlet Box	Riser - 2	Forward	Culvert - 2	952.00	956.00
Culvert-Circular	Culvert - 2	Forward	TW	947.00	956.00
Orifice-Circular	Orifice - 2	Forward	Culvert - 1	948.00	956.00
Orifice-Circular	Orifice - 3	Forward	Culvert - 1	948.50	956.00
Inlet Box	Riser - 1	Forward	Culvert - 1	952.00	956.00
Orifice-Circular	Orifice - 1	Forward	Culvert - 1	947.30	956.00
Culvert-Circular	Culvert - 1	Forward	TW	947.00	956.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Structure ID: Culvert - 1	
Structure Type: Culvert-Circular	
Number of Barrels	1
Diameter	48.0 in
Length	70.00 ft
Length (Computed Barrel)	70.00 ft
Slope (Computed)	0.007 ft/ft
Outlet Control Data	
Manning's n	0.013
Ke	0.50
Kb	0.00
Kr	1.00
Convergence Tolerance	0.00 ft
Inlet Control Data	
Equation Form	Form 1
K	0.0098
M	2.0000
C	0.0398
Y	0.6700
T1 ratio (HW/D)	1.16
T2 ratio (HW/D)	1.30
Slope Correction Factor	-0.50

Use unsubmerged inlet control 0 equation below T1 elevation.
Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control,
interpolate between flows at T1 & T2...

T1 Elevation	951.63 ft	T1 Flow	87.96 ft ³ /s
T2 Elevation	952.21 ft	T2 Flow	100.53 ft ³ /s

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Structure ID: Riser - 1	
Structure Type: Inlet Box	
Number of Openings	1
Elevation	952.00 ft
Orifice Area	20.0 ft ²
Orifice Coefficient	0.60
Weir Length	5.00 ft
Weir Coefficient	3.00 (ft ^{0.5})/s
K Reverse	1.00
Manning's n	0.00
Kev, Charged Riser	0.00
Weir Submergence	False
Orifice H to crest	False
Structure ID: Orifice - 1	
Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	947.30 ft
Orifice Diameter	4.0 in
Orifice Coefficient	0.60
Structure ID: Orifice - 2	
Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	948.00 ft
Orifice Diameter	4.0 in
Orifice Coefficient	0.60
Structure ID: Riser - 2	
Structure Type: Inlet Box	
Number of Openings	1
Elevation	952.00 ft
Orifice Area	20.0 ft ²
Orifice Coefficient	0.60
Weir Length	5.00 ft
Weir Coefficient	3.00 (ft ^{0.5})/s
K Reverse	1.00
Manning's n	0.00
Kev, Charged Riser	0.00
Weir Submergence	False
Orifice H to crest	False

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Structure ID: Culvert - 2	
Structure Type: Culvert-Circular	
Number of Barrels	1
Diameter	48.0 in
Length	70.00 ft
Length (Computed Barrel)	70.00 ft
Slope (Computed)	0.007 ft/ft
Outlet Control Data	
Manning's n	0.013
Ke	0.50
Kb	0.00
Kr	0.00
Convergence Tolerance	0.00 ft
Inlet Control Data	
Equation Form	Form 1
K	0.0098
M	2.0000
C	0.0398
Y	0.6700
T1 ratio (HW/D)	1.16
T2 ratio (HW/D)	1.30
Slope Correction Factor	-0.50

Use unsubmerged inlet control 0 equation below T1 elevation.
Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control,
interpolate between flows at T1 & T2...

T1 Elevation	951.63 ft	T1 Flow	87.96 ft ³ /s
T2 Elevation	952.21 ft	T2 Flow	100.53 ft ³ /s

Subsection: Outlet Input Data
Label: Basin Outlet Structure
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Structure ID: Orifice - 3	
Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	948.50 ft
Orifice Diameter	4.0 in
Orifice Coefficient	0.60
Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

Subsection: Individual Outlet Curves
 Label: Basin Outlet Structure
 Scenario: 100YR-24HR

Return Event: 100 years
 Storm Event: 100YR-24HR

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = ()

Upstream ID =

Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = ()

Upstream ID =
Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
 Label: Basin Outlet Structure
 Scenario: 100YR-24HR

Return Event: 100 years
 Storm Event: 100YR-24HR

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = ()

Upstream ID =

Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = ()

Upstream ID =

Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = ()

Upstream ID =

Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = ()

Upstream ID =
Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Individual Outlet Curves
Label: Basin Outlet Structure
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = ()

Upstream ID =
Downstream ID =

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

Subsection: Composite Rating Curve
Label: Basin Outlet Structure
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft ³ /s)	Tailwater Elevation (ft)	Convergence Error (ft)
947.30	0.00	(N/A)	0.00
947.80	0.24	(N/A)	0.00
948.00	0.31	(N/A)	0.00
948.30	0.52	(N/A)	0.00
948.50	0.67	(N/A)	0.00
948.80	0.96	(N/A)	0.00
949.30	1.34	(N/A)	0.00
949.80	1.61	(N/A)	0.00
950.30	1.84	(N/A)	0.00
950.80	2.04	(N/A)	0.00
951.30	2.23	(N/A)	0.00
951.80	2.40	(N/A)	0.00
952.00	2.46	(N/A)	0.00
952.30	7.46	(N/A)	0.00
952.80	24.05	(N/A)	0.00
953.30	47.01	(N/A)	0.00
953.80	74.91	(N/A)	0.00
954.30	107.07	(N/A)	0.00
954.80	142.89	(N/A)	0.00
955.30	182.09	(N/A)	0.00
955.80	224.31	(N/A)	0.00
956.00	241.96	(N/A)	0.00

Contributing Structures

(no Q: Riser - 2,Culvert -
2,Orifice - 2,Orifice -
3,Riser - 1,Orifice -
1,Culvert - 1)
Orifice - 1,Culvert - 1
(no Q: Riser - 2,Culvert -
2,Orifice - 2,Orifice -
3,Riser - 1)
Orifice - 1,Culvert - 1
(no Q: Riser - 2,Culvert -
2,Orifice - 2,Orifice -
3,Riser - 1)
Orifice - 2,Orifice -
1,Culvert - 1 (no Q: Riser
- 2,Culvert - 2,Orifice -
3,Riser - 1)
Orifice - 2,Orifice -
1,Culvert - 1 (no Q: Riser
- 2,Culvert - 2,Orifice -
3,Riser - 1)
Orifice - 2,Orifice -
3,Orifice - 1,Culvert - 1
(no Q: Riser - 2,Culvert -
2,Riser - 1)

Subsection: Composite Rating Curve
 Label: Basin Outlet Structure
 Scenario: 100YR-24HR

Return Event: 100 years
 Storm Event: 100YR-24HR

Composite Outflow Summary

Contributing Structures
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Orifice - 2,Orifice - 3,Orifice - 1,Culvert - 1 (no Q: Riser - 2,Culvert - 2,Riser - 1)
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1

Subsection: Composite Rating Curve
Label: Basin Outlet Structure
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Composite Outflow Summary

Contributing Structures
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1
Riser - 2,Culvert - 2,Orifice - 2,Orifice - 3,Riser - 1,Orifice - 1,Culvert - 1

Subsection: Diverted Hydrograph
Label: Outlet_Pipe
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Peak Discharge	21.70 ft ³ /s
Time to Peak	13.350 hours
Hydrograph Volume	336,763 ft ³

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours

Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
5.500	0.00	0.00	0.00	0.00	0.01
5.750	0.01	0.01	0.01	0.01	0.02
6.000	0.02	0.02	0.02	0.03	0.03
6.250	0.03	0.04	0.04	0.05	0.05
6.500	0.05	0.06	0.06	0.07	0.07
6.750	0.07	0.08	0.08	0.09	0.09
7.000	0.10	0.10	0.10	0.11	0.11
7.250	0.12	0.12	0.13	0.13	0.14
7.500	0.14	0.15	0.15	0.16	0.16
7.750	0.17	0.17	0.18	0.18	0.19
8.000	0.19	0.20	0.20	0.21	0.21
8.250	0.22	0.22	0.23	0.24	0.24
8.500	0.24	0.25	0.25	0.25	0.25
8.750	0.25	0.26	0.26	0.26	0.27
9.000	0.27	0.28	0.28	0.29	0.29
9.250	0.30	0.31	0.32	0.33	0.34
9.500	0.35	0.36	0.37	0.38	0.40
9.750	0.41	0.42	0.44	0.46	0.47
10.000	0.49	0.51	0.53	0.54	0.55
10.250	0.57	0.58	0.60	0.61	0.63
10.500	0.65	0.67	0.69	0.70	0.72
10.750	0.75	0.77	0.79	0.82	0.85
11.000	0.87	0.90	0.94	0.97	0.98
11.250	1.00	1.02	1.04	1.07	1.09
11.500	1.12	1.15	1.18	1.22	1.27
11.750	1.33	1.38	1.43	1.50	1.60
12.000	1.68	1.76	1.86	1.93	2.01
12.250	2.08	2.15	2.21	2.27	2.33
12.500	2.38	2.43	3.11	5.13	6.92
12.750	9.43	11.98	14.11	15.88	17.33
13.000	18.52	19.47	20.21	20.78	21.19
13.250	21.47	21.63	21.70	21.69	21.61
13.500	21.47	21.29	21.06	20.80	20.51
13.750	20.20	19.88	19.53	19.18	18.83
14.000	18.46	18.10	17.73	17.37	17.00
14.250	16.64	16.28	15.93	15.58	15.24
14.500	14.91	14.58	14.26	13.95	13.65
14.750	13.36	13.08	12.81	12.55	12.30
15.000	12.06	11.82	11.60	11.38	11.17
15.250	10.97	10.77	10.58	10.40	10.22
15.500	10.05	9.88	9.72	9.56	9.41
15.750	9.26	9.12	8.98	8.84	8.71
16.000	8.58	8.45	8.33	8.21	8.09

Subsection: Diverted Hydrograph
Label: Outlet_Pipe
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
16.250	7.97	7.86	7.75	7.64	7.53
16.500	7.44	7.39	7.34	7.29	7.23
16.750	7.18	7.13	7.08	7.03	6.98
17.000	6.93	6.88	6.83	6.78	6.73
17.250	6.69	6.64	6.59	6.55	6.50
17.500	6.46	6.41	6.37	6.32	6.28
17.750	6.24	6.20	6.15	6.11	6.07
18.000	6.03	5.99	5.95	5.91	5.87
18.250	5.83	5.79	5.75	5.72	5.68
18.500	5.64	5.60	5.57	5.53	5.49
18.750	5.46	5.42	5.38	5.35	5.31
19.000	5.28	5.24	5.21	5.17	5.14
19.250	5.10	5.07	5.03	5.00	4.97
19.500	4.93	4.90	4.86	4.83	4.80
19.750	4.76	4.73	4.70	4.66	4.63
20.000	4.60	4.57	4.53	4.50	4.47
20.250	4.44	4.40	4.37	4.34	4.31
20.500	4.28	4.25	4.22	4.19	4.16
20.750	4.13	4.10	4.08	4.05	4.02
21.000	4.00	3.97	3.95	3.92	3.90
21.250	3.88	3.85	3.83	3.81	3.79
21.500	3.77	3.75	3.73	3.71	3.69
21.750	3.67	3.65	3.63	3.62	3.60
22.000	3.58	3.57	3.55	3.54	3.52
22.250	3.50	3.49	3.48	3.46	3.45
22.500	3.43	3.42	3.41	3.39	3.38
22.750	3.37	3.36	3.34	3.33	3.32
23.000	3.31	3.30	3.29	3.28	3.27
23.250	3.25	3.24	3.23	3.22	3.21
23.500	3.20	3.19	3.18	3.17	3.16
23.750	3.16	3.15	3.14	3.13	3.12
24.000	3.11	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Diverted Hydrograph
Label: Outlet_Pipe
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Peak Discharge	92.45 ft ³ /s
Time to Peak	12.800 hours
Hydrograph Volume	832,724 ft ³

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours

Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
3.900	0.00	0.00	0.00	0.00	0.01
4.150	0.01	0.01	0.01	0.02	0.02
4.400	0.03	0.03	0.04	0.04	0.05
4.650	0.05	0.06	0.06	0.07	0.07
4.900	0.08	0.09	0.09	0.10	0.11
5.150	0.11	0.12	0.13	0.13	0.14
5.400	0.15	0.15	0.16	0.17	0.18
5.650	0.18	0.19	0.20	0.21	0.21
5.900	0.22	0.23	0.24	0.24	0.24
6.150	0.24	0.25	0.25	0.25	0.25
6.400	0.25	0.26	0.26	0.26	0.26
6.650	0.27	0.27	0.27	0.28	0.28
6.900	0.29	0.29	0.30	0.30	0.31
7.150	0.32	0.33	0.34	0.35	0.36
7.400	0.37	0.38	0.39	0.40	0.42
7.650	0.43	0.44	0.46	0.47	0.49
7.900	0.51	0.52	0.53	0.54	0.55
8.150	0.57	0.58	0.59	0.60	0.62
8.400	0.63	0.64	0.66	0.67	0.69
8.650	0.70	0.72	0.74	0.75	0.77
8.900	0.79	0.81	0.83	0.85	0.87
9.150	0.90	0.92	0.94	0.96	0.98
9.400	0.99	1.00	1.01	1.03	1.04
9.650	1.06	1.07	1.08	1.10	1.12
9.900	1.13	1.15	1.17	1.18	1.20
10.150	1.22	1.24	1.26	1.28	1.31
10.400	1.33	1.35	1.36	1.37	1.38
10.650	1.40	1.41	1.43	1.44	1.46
10.900	1.47	1.49	1.51	1.53	1.55
11.150	1.57	1.59	1.61	1.63	1.65
11.400	1.66	1.68	1.70	1.72	1.74
11.650	1.77	1.80	1.84	1.88	1.94
11.900	2.00	2.08	2.17	2.27	2.37
12.150	3.07	8.68	18.15	28.16	39.31
12.400	49.84	60.27	69.14	76.56	82.89
12.650	87.46	90.44	92.03	92.45	91.93
12.900	90.68	88.87	86.64	84.11	81.35
13.150	78.44	75.44	72.66	69.91	67.17
13.400	64.46	61.81	59.22	56.70	54.28
13.650	51.95	49.71	47.58	45.75	44.08
13.900	42.47	40.92	39.42	37.99	36.62
14.150	35.31	34.05	32.85	31.70	30.60
14.400	29.55	28.55	27.60	26.70	25.84

Subsection: Diverted Hydrograph
Label: Outlet_Pipe
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
14.650	25.03	24.26	23.66	23.14	22.63
14.900	22.15	21.68	21.23	20.79	20.37
15.150	19.97	19.58	19.21	18.85	18.50
15.400	18.16	17.84	17.52	17.22	16.92
15.650	16.64	16.36	16.09	15.83	15.57
15.900	15.33	15.08	14.85	14.62	14.39
16.150	14.18	13.96	13.75	13.55	13.35
16.400	13.16	12.97	12.79	12.61	12.44
16.650	12.27	12.11	11.95	11.80	11.65
16.900	11.51	11.37	11.24	11.11	10.99
17.150	10.87	10.75	10.64	10.53	10.42
17.400	10.32	10.22	10.12	10.03	9.93
17.650	9.84	9.76	9.67	9.59	9.51
17.900	9.43	9.35	9.28	9.20	9.13
18.150	9.06	8.99	8.92	8.85	8.78
18.400	8.72	8.65	8.59	8.52	8.46
18.650	8.40	8.34	8.28	8.22	8.16
18.900	8.10	8.04	7.98	7.93	7.87
19.150	7.81	7.75	7.70	7.64	7.59
19.400	7.53	7.48	7.44	7.41	7.38
19.650	7.35	7.32	7.29	7.25	7.22
19.900	7.19	7.15	7.12	7.08	7.05
20.150	7.01	6.98	6.94	6.90	6.87
20.400	6.83	6.79	6.75	6.72	6.68
20.650	6.64	6.61	6.57	6.54	6.50
20.900	6.47	6.44	6.40	6.37	6.34
21.150	6.31	6.28	6.25	6.22	6.19
21.400	6.16	6.13	6.11	6.08	6.05
21.650	6.03	6.00	5.98	5.95	5.93
21.900	5.90	5.88	5.86	5.84	5.81
22.150	5.79	5.77	5.75	5.73	5.71
22.400	5.69	5.67	5.65	5.63	5.61
22.650	5.60	5.58	5.56	5.54	5.52
22.900	5.51	5.49	5.47	5.46	5.44
23.150	5.43	5.41	5.39	5.38	5.36
23.400	5.35	5.33	5.32	5.30	5.29
23.650	5.27	5.26	5.25	5.23	5.22
23.900	5.20	5.19	5.18	(N/A)	(N/A)

Subsection: Diverted Hydrograph
Label: Outlet_Pipe
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Peak Discharge	190.34 ft ³ /s
Time to Peak	12.650 hours
Hydrograph Volume	1,472,696 ft ³

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours

Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
2.900	0.00	0.00	0.00	0.01	0.01
3.150	0.01	0.02	0.02	0.03	0.04
3.400	0.04	0.05	0.06	0.07	0.07
3.650	0.08	0.09	0.10	0.11	0.12
3.900	0.13	0.14	0.15	0.16	0.17
4.150	0.18	0.19	0.20	0.21	0.22
4.400	0.23	0.24	0.24	0.24	0.25
4.650	0.25	0.25	0.25	0.26	0.26
4.900	0.26	0.27	0.27	0.27	0.28
5.150	0.28	0.29	0.29	0.30	0.30
5.400	0.31	0.32	0.33	0.34	0.35
5.650	0.36	0.37	0.38	0.39	0.41
5.900	0.42	0.44	0.45	0.47	0.49
6.150	0.51	0.53	0.54	0.55	0.56
6.400	0.58	0.59	0.61	0.62	0.64
6.650	0.66	0.67	0.69	0.70	0.72
6.900	0.74	0.76	0.77	0.79	0.81
7.150	0.83	0.85	0.87	0.89	0.92
7.400	0.94	0.96	0.97	0.98	0.99
7.650	1.01	1.02	1.03	1.04	1.06
7.900	1.07	1.08	1.10	1.11	1.12
8.150	1.14	1.15	1.17	1.19	1.20
8.400	1.22	1.24	1.25	1.27	1.29
8.650	1.31	1.33	1.35	1.36	1.37
8.900	1.38	1.39	1.40	1.41	1.42
9.150	1.43	1.45	1.46	1.47	1.49
9.400	1.50	1.51	1.53	1.54	1.56
9.650	1.57	1.59	1.61	1.62	1.63
9.900	1.64	1.65	1.66	1.67	1.69
10.150	1.70	1.71	1.72	1.74	1.75
10.400	1.76	1.78	1.79	1.81	1.83
10.650	1.84	1.86	1.87	1.88	1.90
10.900	1.92	1.93	1.95	1.97	1.99
11.150	2.00	2.02	2.05	2.06	2.08
11.400	2.10	2.13	2.15	2.17	2.20
11.650	2.23	2.26	2.30	2.35	2.41
11.900	3.70	9.32	20.15	34.82	52.13
12.150	71.16	90.59	109.08	127.04	142.90
12.400	157.44	169.29	178.47	185.02	188.98
12.650	190.34	189.36	186.45	181.98	176.59
12.900	170.40	163.69	156.70	149.54	142.39
13.150	135.67	129.04	122.56	116.27	110.22
13.400	104.61	99.47	94.54	89.84	85.37

Subsection: Diverted Hydrograph
Label: Outlet_Pipe
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
13.650	81.14	77.13	73.52	70.31	67.25
13.900	64.35	61.60	58.98	56.51	54.17
14.150	51.95	49.86	47.88	46.15	44.63
14.400	43.17	41.78	40.44	39.17	37.96
14.650	36.81	35.72	34.68	33.71	32.78
14.900	31.91	31.08	30.30	29.56	28.85
15.150	28.19	27.55	26.95	26.38	25.84
15.400	25.32	24.82	24.35	23.93	23.60
15.650	23.28	22.96	22.65	22.35	22.05
15.900	21.76	21.47	21.18	20.90	20.63
16.150	20.35	20.08	19.82	19.56	19.31
16.400	19.06	18.81	18.58	18.34	18.12
16.650	17.89	17.68	17.47	17.27	17.07
16.900	16.88	16.69	16.51	16.33	16.16
17.150	16.00	15.84	15.68	15.53	15.38
17.400	15.24	15.10	14.97	14.83	14.70
17.650	14.58	14.45	14.33	14.22	14.10
17.900	13.99	13.88	13.77	13.66	13.56
18.150	13.45	13.35	13.25	13.15	13.05
18.400	12.96	12.86	12.77	12.68	12.58
18.650	12.49	12.40	12.31	12.23	12.14
18.900	12.05	11.96	11.88	11.79	11.71
19.150	11.62	11.54	11.46	11.37	11.29
19.400	11.21	11.13	11.05	10.97	10.88
19.650	10.80	10.72	10.64	10.56	10.48
19.900	10.40	10.32	10.24	10.17	10.09
20.150	10.01	9.93	9.85	9.77	9.70
20.400	9.62	9.55	9.48	9.41	9.34
20.650	9.27	9.20	9.14	9.08	9.02
20.900	8.96	8.91	8.85	8.80	8.75
21.150	8.70	8.66	8.61	8.57	8.53
21.400	8.49	8.45	8.41	8.37	8.34
21.650	8.30	8.27	8.24	8.21	8.18
21.900	8.15	8.12	8.09	8.07	8.04
22.150	8.01	7.99	7.97	7.94	7.92
22.400	7.90	7.87	7.85	7.83	7.81
22.650	7.79	7.77	7.75	7.73	7.71
22.900	7.69	7.67	7.65	7.63	7.61
23.150	7.60	7.58	7.56	7.54	7.53
23.400	7.51	7.49	7.47	7.46	7.45
23.650	7.44	7.43	7.42	7.41	7.40
23.900	7.39	7.38	7.37	(N/A)	(N/A)

Subsection: Diverted Hydrograph
Label: Outlet_Pipe
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Peak Discharge	236.26 ft ³ /s
Time to Peak	12.600 hours
Hydrograph Volume	1,787,924 ft ³

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours

Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
2.550	0.00	0.00	0.00	0.01	0.01
2.800	0.01	0.02	0.02	0.03	0.04
3.050	0.05	0.05	0.06	0.07	0.08
3.300	0.09	0.10	0.11	0.13	0.14
3.550	0.15	0.16	0.17	0.18	0.19
3.800	0.21	0.22	0.23	0.24	0.24
4.050	0.25	0.25	0.25	0.25	0.26
4.300	0.26	0.26	0.27	0.27	0.27
4.550	0.28	0.28	0.29	0.29	0.30
4.800	0.30	0.31	0.32	0.33	0.34
5.050	0.35	0.36	0.37	0.38	0.40
5.300	0.41	0.43	0.45	0.46	0.48
5.550	0.50	0.52	0.54	0.55	0.56
5.800	0.58	0.59	0.61	0.63	0.64
6.050	0.66	0.68	0.69	0.71	0.73
6.300	0.75	0.77	0.79	0.81	0.83
6.550	0.85	0.87	0.90	0.92	0.94
6.800	0.96	0.97	0.99	1.00	1.01
7.050	1.03	1.04	1.05	1.07	1.08
7.300	1.10	1.11	1.13	1.14	1.16
7.550	1.17	1.19	1.21	1.23	1.24
7.800	1.26	1.28	1.30	1.32	1.34
8.050	1.35	1.36	1.37	1.38	1.39
8.300	1.40	1.41	1.42	1.43	1.44
8.550	1.45	1.46	1.48	1.49	1.50
8.800	1.51	1.53	1.54	1.56	1.57
9.050	1.59	1.60	1.62	1.63	1.64
9.300	1.65	1.66	1.67	1.68	1.70
9.550	1.71	1.72	1.73	1.75	1.76
9.800	1.77	1.79	1.80	1.81	1.83
10.050	1.84	1.86	1.87	1.88	1.89
10.300	1.91	1.92	1.93	1.95	1.96
10.550	1.98	1.99	2.01	2.03	2.04
10.800	2.06	2.07	2.09	2.11	2.13
11.050	2.14	2.16	2.18	2.20	2.23
11.300	2.25	2.27	2.29	2.31	2.34
11.550	2.36	2.39	2.42	2.46	4.50
11.800	7.16	13.24	21.15	33.13	48.62
12.050	68.36	90.25	112.67	134.70	155.66
12.300	174.93	192.19	207.10	218.96	227.82
12.550	233.57	236.26	236.08	233.33	228.47
12.800	221.94	214.28	205.80	196.83	187.64
13.050	178.52	169.69	160.96	152.44	144.19

Subsection: Diverted Hydrograph
Label: Outlet_Pipe
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
13.300	136.65	129.47	122.60	116.06	109.84
13.550	104.19	99.03	94.14	89.51	85.13
13.800	81.01	77.12	73.62	70.52	67.59
14.050	64.80	62.16	59.65	57.28	55.03
14.300	52.91	50.90	48.99	47.19	45.72
14.550	44.34	43.02	41.76	40.57	39.44
14.800	38.37	37.35	36.39	35.48	34.61
15.050	33.79	33.01	32.27	31.57	30.90
15.300	30.26	29.65	29.07	28.52	27.99
15.550	27.48	26.99	26.52	26.07	25.63
15.800	25.21	24.80	24.40	24.03	23.75
16.050	23.47	23.19	22.92	22.64	22.38
16.300	22.11	21.85	21.59	21.33	21.08
16.550	20.84	20.60	20.36	20.13	19.91
16.800	19.69	19.48	19.28	19.07	18.88
17.050	18.69	18.50	18.33	18.15	17.98
17.300	17.81	17.65	17.49	17.34	17.19
17.550	17.04	16.90	16.76	16.62	16.49
17.800	16.36	16.23	16.10	15.98	15.86
18.050	15.74	15.62	15.50	15.39	15.27
18.300	15.16	15.05	14.94	14.83	14.73
18.550	14.62	14.52	14.41	14.31	14.21
18.800	14.11	14.01	13.91	13.81	13.71
19.050	13.61	13.52	13.42	13.32	13.23
19.300	13.13	13.04	12.94	12.85	12.76
19.550	12.66	12.57	12.48	12.38	12.29
19.800	12.20	12.11	12.01	11.92	11.83
20.050	11.74	11.65	11.56	11.47	11.38
20.300	11.29	11.20	11.11	11.03	10.95
20.550	10.86	10.78	10.71	10.63	10.56
20.800	10.49	10.42	10.35	10.29	10.22
21.050	10.16	10.11	10.05	10.00	9.94
21.300	9.89	9.85	9.80	9.75	9.71
21.550	9.67	9.63	9.59	9.55	9.51
21.800	9.48	9.44	9.41	9.38	9.34
22.050	9.31	9.28	9.25	9.22	9.20
22.300	9.17	9.14	9.12	9.09	9.06
22.550	9.04	9.02	8.99	8.97	8.94
22.800	8.92	8.90	8.88	8.85	8.83
23.050	8.81	8.79	8.77	8.75	8.73
23.300	8.71	8.69	8.67	8.65	8.63
23.550	8.61	8.59	8.57	8.55	8.53
23.800	8.51	8.49	8.47	8.45	8.43

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Prop_Basin
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Infiltration	
Infiltration Method (Computed)	No Infiltration
Initial Conditions	
Elevation (Water Surface, Initial)	947.30 ft
Volume (Initial)	0 ft ³
Flow (Initial Outlet)	0.00 ft ³ /s
Flow (Initial Infiltration)	0.00 ft ³ /s
Flow (Initial, Total)	0.00 ft ³ /s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft ³ /s)	Storage (ft ³)	Area (acres)	Infiltration (ft ³ /s)	Flow (Total) (ft ³ /s)	2S/t + O (ft ³ /s)
947.30	0.00	0	0.00	0.00	0.00	0.00
947.80	0.24	362	0.05	0.00	0.24	4.27
948.00	0.31	994	0.10	0.00	0.31	11.35
948.30	0.52	3,010	0.22	0.00	0.52	33.97
948.50	0.67	5,368	0.33	0.00	0.67	60.31
948.80	0.96	10,890	0.53	0.00	0.96	121.96
949.30	1.34	26,543	0.91	0.00	1.34	296.27
949.80	1.61	50,781	1.33	0.00	1.61	565.84
950.30	1.84	84,004	1.65	0.00	1.84	935.22
950.80	2.04	122,195	1.86	0.00	2.04	1,359.77
951.30	2.23	164,574	2.00	0.00	2.23	1,830.82
951.80	2.40	209,106	2.09	0.00	2.40	2,325.80
952.00	2.46	227,466	2.13	0.00	2.46	2,529.86
952.30	7.46	255,491	2.16	0.00	7.46	2,846.24
952.80	24.05	303,308	2.23	0.00	24.05	3,394.14
953.30	47.01	352,527	2.29	0.00	47.01	3,963.98
953.80	74.91	403,155	2.36	0.00	74.91	4,554.40
954.30	107.07	455,207	2.42	0.00	107.07	5,164.93
954.80	142.89	508,695	2.49	0.00	142.89	5,795.05
955.30	182.09	563,634	2.56	0.00	182.09	6,444.69
955.80	224.31	620,227	2.65	0.00	224.31	7,115.72
956.00	241.96	643,543	2.70	0.00	241.96	7,392.44

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Prop_Basin
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Infiltration	
Infiltration Method (Computed)	No Infiltration
Initial Conditions	
Elevation (Water Surface, Initial)	947.30 ft
Volume (Initial)	0 ft ³
Flow (Initial Outlet)	0.00 ft ³ /s
Flow (Initial Infiltration)	0.00 ft ³ /s
Flow (Initial, Total)	0.00 ft ³ /s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft ³ /s)	Storage (ft ³)	Area (acres)	Infiltration (ft ³ /s)	Flow (Total) (ft ³ /s)	2S/t + O (ft ³ /s)
947.30	0.00	0	0.00	0.00	0.00	0.00
947.80	0.24	362	0.05	0.00	0.24	4.27
948.00	0.31	994	0.10	0.00	0.31	11.35
948.30	0.52	3,010	0.22	0.00	0.52	33.97
948.50	0.67	5,368	0.33	0.00	0.67	60.31
948.80	0.96	10,890	0.53	0.00	0.96	121.96
949.30	1.34	26,543	0.91	0.00	1.34	296.27
949.80	1.61	50,781	1.33	0.00	1.61	565.84
950.30	1.84	84,004	1.65	0.00	1.84	935.22
950.80	2.04	122,195	1.86	0.00	2.04	1,359.77
951.30	2.23	164,574	2.00	0.00	2.23	1,830.82
951.80	2.40	209,106	2.09	0.00	2.40	2,325.80
952.00	2.46	227,466	2.13	0.00	2.46	2,529.86
952.30	7.46	255,491	2.16	0.00	7.46	2,846.24
952.80	24.05	303,308	2.23	0.00	24.05	3,394.14
953.30	47.01	352,527	2.29	0.00	47.01	3,963.98
953.80	74.91	403,155	2.36	0.00	74.91	4,554.40
954.30	107.07	455,207	2.42	0.00	107.07	5,164.93
954.80	142.89	508,695	2.49	0.00	142.89	5,795.05
955.30	182.09	563,634	2.56	0.00	182.09	6,444.69
955.80	224.31	620,227	2.65	0.00	224.31	7,115.72
956.00	241.96	643,543	2.70	0.00	241.96	7,392.44

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Prop_Basin
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Infiltration	
Infiltration Method (Computed)	No Infiltration
Initial Conditions	
Elevation (Water Surface, Initial)	947.30 ft
Volume (Initial)	0 ft ³
Flow (Initial Outlet)	0.00 ft ³ /s
Flow (Initial Infiltration)	0.00 ft ³ /s
Flow (Initial, Total)	0.00 ft ³ /s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft ³ /s)	Storage (ft ³)	Area (acres)	Infiltration (ft ³ /s)	Flow (Total) (ft ³ /s)	2S/t + O (ft ³ /s)
947.30	0.00	0	0.00	0.00	0.00	0.00
947.80	0.24	362	0.05	0.00	0.24	4.27
948.00	0.31	994	0.10	0.00	0.31	11.35
948.30	0.52	3,010	0.22	0.00	0.52	33.97
948.50	0.67	5,368	0.33	0.00	0.67	60.31
948.80	0.96	10,890	0.53	0.00	0.96	121.96
949.30	1.34	26,543	0.91	0.00	1.34	296.27
949.80	1.61	50,781	1.33	0.00	1.61	565.84
950.30	1.84	84,004	1.65	0.00	1.84	935.22
950.80	2.04	122,195	1.86	0.00	2.04	1,359.77
951.30	2.23	164,574	2.00	0.00	2.23	1,830.82
951.80	2.40	209,106	2.09	0.00	2.40	2,325.80
952.00	2.46	227,466	2.13	0.00	2.46	2,529.86
952.30	7.46	255,491	2.16	0.00	7.46	2,846.24
952.80	24.05	303,308	2.23	0.00	24.05	3,394.14
953.30	47.01	352,527	2.29	0.00	47.01	3,963.98
953.80	74.91	403,155	2.36	0.00	74.91	4,554.40
954.30	107.07	455,207	2.42	0.00	107.07	5,164.93
954.80	142.89	508,695	2.49	0.00	142.89	5,795.05
955.30	182.09	563,634	2.56	0.00	182.09	6,444.69
955.80	224.31	620,227	2.65	0.00	224.31	7,115.72
956.00	241.96	643,543	2.70	0.00	241.96	7,392.44

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Prop_Basin
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Infiltration	
Infiltration Method (Computed)	No Infiltration
Initial Conditions	
Elevation (Water Surface, Initial)	947.30 ft
Volume (Initial)	0 ft ³
Flow (Initial Outlet)	0.00 ft ³ /s
Flow (Initial Infiltration)	0.00 ft ³ /s
Flow (Initial, Total)	0.00 ft ³ /s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft ³ /s)	Storage (ft ³)	Area (acres)	Infiltration (ft ³ /s)	Flow (Total) (ft ³ /s)	2S/t + O (ft ³ /s)
947.30	0.00	0	0.00	0.00	0.00	0.00
947.80	0.24	362	0.05	0.00	0.24	4.27
948.00	0.31	994	0.10	0.00	0.31	11.35
948.30	0.52	3,010	0.22	0.00	0.52	33.97
948.50	0.67	5,368	0.33	0.00	0.67	60.31
948.80	0.96	10,890	0.53	0.00	0.96	121.96
949.30	1.34	26,543	0.91	0.00	1.34	296.27
949.80	1.61	50,781	1.33	0.00	1.61	565.84
950.30	1.84	84,004	1.65	0.00	1.84	935.22
950.80	2.04	122,195	1.86	0.00	2.04	1,359.77
951.30	2.23	164,574	2.00	0.00	2.23	1,830.82
951.80	2.40	209,106	2.09	0.00	2.40	2,325.80
952.00	2.46	227,466	2.13	0.00	2.46	2,529.86
952.30	7.46	255,491	2.16	0.00	7.46	2,846.24
952.80	24.05	303,308	2.23	0.00	24.05	3,394.14
953.30	47.01	352,527	2.29	0.00	47.01	3,963.98
953.80	74.91	403,155	2.36	0.00	74.91	4,554.40
954.30	107.07	455,207	2.42	0.00	107.07	5,164.93
954.80	142.89	508,695	2.49	0.00	142.89	5,795.05
955.30	182.09	563,634	2.56	0.00	182.09	6,444.69
955.80	224.31	620,227	2.65	0.00	224.31	7,115.72
956.00	241.96	643,543	2.70	0.00	241.96	7,392.44

Subsection: Level Pool Pond Routing Summary
Label: Prop_Basin (IN)
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Infiltration			
Infiltration Method (Computed)		No Infiltration	
Initial Conditions			
Elevation (Water Surface, Initial)	947.30 ft		
Volume (Initial)	0 ft ³		
Flow (Initial Outlet)	0.00 ft ³ /s		
Flow (Initial Infiltration)	0.00 ft ³ /s		
Flow (Initial, Total)	0.00 ft ³ /s		
Time Increment	0.050 hours		
Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	86.89 ft ³ /s	Time to Peak (Flow, In)	12.350 hours
Flow (Peak Outlet)	21.70 ft ³ /s	Time to Peak (Flow, Outlet)	13.350 hours
Peak Conditions			
Elevation (Water Surface, Peak)	952.73 ft		
Volume (Peak)	296,474 ft ³		
Mass Balance (ft ³)			
Volume (Initial)	0 ft ³		
Volume (Total Inflow)	567,867 ft ³		
Volume (Total Infiltration)	0 ft ³		
Volume (Total Outlet Outflow)	336,763 ft ³		
Volume (Retained)	230,528 ft ³		
Volume (Unrouted)	-575 ft ³		
Error (Mass Balance)	0.1 %		

Subsection: Level Pool Pond Routing Summary
Label: Prop_Basin (IN)
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Infiltration			
Infiltration Method (Computed)		No Infiltration	
Initial Conditions			
Elevation (Water Surface, Initial)	947.30 ft		
Volume (Initial)	0 ft³		
Flow (Initial Outlet)	0.00 ft³/s		
Flow (Initial Infiltration)	0.00 ft³/s		
Flow (Initial, Total)	0.00 ft³/s		
Time Increment	0.050 hours		
Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	167.13 ft³/s	Time to Peak (Flow, In)	12.250 hours
Flow (Peak Outlet)	92.45 ft³/s	Time to Peak (Flow, Outlet)	12.800 hours
Elevation (Water Surface, Peak)	954.07 ft		
Volume (Peak)	431,363 ft³		
Mass Balance (ft³)			
Volume (Initial)	0 ft³		
Volume (Total Inflow)	1,075,416 ft³		
Volume (Total Infiltration)	0 ft³		
Volume (Total Outlet Outflow)	832,724 ft³		
Volume (Retained)	241,714 ft³		
Volume (Unrouted)	-979 ft³		
Error (Mass Balance)	0.1 %		

Subsection: Level Pool Pond Routing Summary
Label: Prop_Basin (IN)
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Infiltration			
Infiltration Method (Computed)		No Infiltration	
Initial Conditions			
Elevation (Water Surface, Initial)	947.30 ft		
Volume (Initial)	0 ft³		
Flow (Initial Outlet)	0.00 ft³/s		
Flow (Initial Infiltration)	0.00 ft³/s		
Flow (Initial, Total)	0.00 ft³/s		
Time Increment	0.050 hours		
Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	268.06 ft³/s	Time to Peak (Flow, In)	12.250 hours
Flow (Peak Outlet)	190.34 ft³/s	Time to Peak (Flow, Outlet)	12.650 hours
Peak Conditions			
Elevation (Water Surface, Peak)	955.40 ft		
Volume (Peak)	574,538 ft³		
Mass Balance (ft³)			
Volume (Initial)	0 ft³		
Volume (Total Inflow)	1,727,703 ft³		
Volume (Total Infiltration)	0 ft³		
Volume (Total Outlet Outflow)	1,472,696 ft³		
Volume (Retained)	253,686 ft³		
Volume (Unrouted)	-1,321 ft³		
Error (Mass Balance)	0.1 %		

Subsection: Level Pool Pond Routing Summary
Label: Prop_Basin (IN)
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Infiltration			
Infiltration Method (Computed)		No Infiltration	
Initial Conditions			
Elevation (Water Surface, Initial)	947.30 ft		
Volume (Initial)	0 ft³		
Flow (Initial Outlet)	0.00 ft³/s		
Flow (Initial Infiltration)	0.00 ft³/s		
Flow (Initial, Total)	0.00 ft³/s		
Time Increment	0.050 hours		
Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	316.53 ft³/s	Time to Peak (Flow, In)	12.250 hours
Flow (Peak Outlet)	236.26 ft³/s	Time to Peak (Flow, Outlet)	12.600 hours
Peak Conditions			
Elevation (Water Surface, Peak)	955.94 ft		
Volume (Peak)	635,971 ft³		
Mass Balance (ft³)			
Volume (Initial)	0 ft³		
Volume (Total Inflow)	2,046,233 ft³		
Volume (Total Infiltration)	0 ft³		
Volume (Total Outlet Outflow)	1,787,924 ft³		
Volume (Retained)	256,817 ft³		
Volume (Unrouted)	-1,491 ft³		
Error (Mass Balance)	0.1 %		

Subsection: Pond Routed Hydrograph (total out)
 Label: Prop_Basin (OUT)
 Scenario: 2YR-24HR

Return Event: 2 years
 Storm Event: 2YR-24HR

Peak Discharge	21.70 ft ³ /s
Time to Peak	13.350 hours
Hydrograph Volume	336,763 ft ³

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours

Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
5.500	0.00	0.00	0.00	0.00	0.01
5.750	0.01	0.01	0.01	0.01	0.02
6.000	0.02	0.02	0.02	0.03	0.03
6.250	0.03	0.04	0.04	0.05	0.05
6.500	0.05	0.06	0.06	0.07	0.07
6.750	0.07	0.08	0.08	0.09	0.09
7.000	0.10	0.10	0.10	0.11	0.11
7.250	0.12	0.12	0.13	0.13	0.14
7.500	0.14	0.15	0.15	0.16	0.16
7.750	0.17	0.17	0.18	0.18	0.19
8.000	0.19	0.20	0.20	0.21	0.21
8.250	0.22	0.22	0.23	0.24	0.24
8.500	0.24	0.25	0.25	0.25	0.25
8.750	0.25	0.26	0.26	0.26	0.27
9.000	0.27	0.28	0.28	0.29	0.29
9.250	0.30	0.31	0.32	0.33	0.34
9.500	0.35	0.36	0.37	0.38	0.40
9.750	0.41	0.42	0.44	0.46	0.47
10.000	0.49	0.51	0.53	0.54	0.55
10.250	0.57	0.58	0.60	0.61	0.63
10.500	0.65	0.67	0.69	0.70	0.72
10.750	0.75	0.77	0.79	0.82	0.85
11.000	0.87	0.90	0.94	0.97	0.98
11.250	1.00	1.02	1.04	1.07	1.09
11.500	1.12	1.15	1.18	1.22	1.27
11.750	1.33	1.38	1.43	1.50	1.60
12.000	1.68	1.76	1.86	1.93	2.01
12.250	2.08	2.15	2.21	2.27	2.33
12.500	2.38	2.43	3.11	5.13	6.92
12.750	9.43	11.98	14.11	15.88	17.33
13.000	18.52	19.47	20.21	20.78	21.19
13.250	21.47	21.63	21.70	21.69	21.61
13.500	21.47	21.29	21.06	20.80	20.51
13.750	20.20	19.88	19.53	19.18	18.83
14.000	18.46	18.10	17.73	17.37	17.00
14.250	16.64	16.28	15.93	15.58	15.24
14.500	14.91	14.58	14.26	13.95	13.65
14.750	13.36	13.08	12.81	12.55	12.30
15.000	12.06	11.82	11.60	11.38	11.17
15.250	10.97	10.77	10.58	10.40	10.22
15.500	10.05	9.88	9.72	9.56	9.41
15.750	9.26	9.12	8.98	8.84	8.71
16.000	8.58	8.45	8.33	8.21	8.09

Subsection: Pond Routed Hydrograph (total out)
 Label: Prop_Basin (OUT)
 Scenario: 2YR-24HR

Return Event: 2 years
 Storm Event: 2YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
16.250	7.97	7.86	7.75	7.64	7.53
16.500	7.44	7.39	7.34	7.29	7.23
16.750	7.18	7.13	7.08	7.03	6.98
17.000	6.93	6.88	6.83	6.78	6.73
17.250	6.69	6.64	6.59	6.55	6.50
17.500	6.46	6.41	6.37	6.32	6.28
17.750	6.24	6.20	6.15	6.11	6.07
18.000	6.03	5.99	5.95	5.91	5.87
18.250	5.83	5.79	5.75	5.72	5.68
18.500	5.64	5.60	5.57	5.53	5.49
18.750	5.46	5.42	5.38	5.35	5.31
19.000	5.28	5.24	5.21	5.17	5.14
19.250	5.10	5.07	5.03	5.00	4.97
19.500	4.93	4.90	4.86	4.83	4.80
19.750	4.76	4.73	4.70	4.66	4.63
20.000	4.60	4.57	4.53	4.50	4.47
20.250	4.44	4.40	4.37	4.34	4.31
20.500	4.28	4.25	4.22	4.19	4.16
20.750	4.13	4.10	4.08	4.05	4.02
21.000	4.00	3.97	3.95	3.92	3.90
21.250	3.88	3.85	3.83	3.81	3.79
21.500	3.77	3.75	3.73	3.71	3.69
21.750	3.67	3.65	3.63	3.62	3.60
22.000	3.58	3.57	3.55	3.54	3.52
22.250	3.50	3.49	3.48	3.46	3.45
22.500	3.43	3.42	3.41	3.39	3.38
22.750	3.37	3.36	3.34	3.33	3.32
23.000	3.31	3.30	3.29	3.28	3.27
23.250	3.25	3.24	3.23	3.22	3.21
23.500	3.20	3.19	3.18	3.17	3.16
23.750	3.16	3.15	3.14	3.13	3.12
24.000	3.11	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Pond Routed Hydrograph (total out)
Label: Prop_Basin (OUT)
Scenario: 10YR-24HR

Return Event: 10 years
Storm Event: 10YR-24HR

Peak Discharge	92.45 ft ³ /s
Time to Peak	12.800 hours
Hydrograph Volume	832,724 ft ³

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours

Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
3.900	0.00	0.00	0.00	0.00	0.01
4.150	0.01	0.01	0.01	0.02	0.02
4.400	0.03	0.03	0.04	0.04	0.05
4.650	0.05	0.06	0.06	0.07	0.07
4.900	0.08	0.09	0.09	0.10	0.11
5.150	0.11	0.12	0.13	0.13	0.14
5.400	0.15	0.15	0.16	0.17	0.18
5.650	0.18	0.19	0.20	0.21	0.21
5.900	0.22	0.23	0.24	0.24	0.24
6.150	0.24	0.25	0.25	0.25	0.25
6.400	0.25	0.26	0.26	0.26	0.26
6.650	0.27	0.27	0.27	0.28	0.28
6.900	0.29	0.29	0.30	0.30	0.31
7.150	0.32	0.33	0.34	0.35	0.36
7.400	0.37	0.38	0.39	0.40	0.42
7.650	0.43	0.44	0.46	0.47	0.49
7.900	0.51	0.52	0.53	0.54	0.55
8.150	0.57	0.58	0.59	0.60	0.62
8.400	0.63	0.64	0.66	0.67	0.69
8.650	0.70	0.72	0.74	0.75	0.77
8.900	0.79	0.81	0.83	0.85	0.87
9.150	0.90	0.92	0.94	0.96	0.98
9.400	0.99	1.00	1.01	1.03	1.04
9.650	1.06	1.07	1.08	1.10	1.12
9.900	1.13	1.15	1.17	1.18	1.20
10.150	1.22	1.24	1.26	1.28	1.31
10.400	1.33	1.35	1.36	1.37	1.38
10.650	1.40	1.41	1.43	1.44	1.46
10.900	1.47	1.49	1.51	1.53	1.55
11.150	1.57	1.59	1.61	1.63	1.65
11.400	1.66	1.68	1.70	1.72	1.74
11.650	1.77	1.80	1.84	1.88	1.94
11.900	2.00	2.08	2.17	2.27	2.37
12.150	3.07	8.68	18.15	28.16	39.31
12.400	49.84	60.27	69.14	76.56	82.89
12.650	87.46	90.44	92.03	92.45	91.93
12.900	90.68	88.87	86.64	84.11	81.35
13.150	78.44	75.44	72.66	69.91	67.17
13.400	64.46	61.81	59.22	56.70	54.28
13.650	51.95	49.71	47.58	45.75	44.08
13.900	42.47	40.92	39.42	37.99	36.62
14.150	35.31	34.05	32.85	31.70	30.60
14.400	29.55	28.55	27.60	26.70	25.84

Subsection: Pond Routed Hydrograph (total out)
 Label: Prop_Basin (OUT)
 Scenario: 10YR-24HR

Return Event: 10 years
 Storm Event: 10YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
14.650	25.03	24.26	23.66	23.14	22.63
14.900	22.15	21.68	21.23	20.79	20.37
15.150	19.97	19.58	19.21	18.85	18.50
15.400	18.16	17.84	17.52	17.22	16.92
15.650	16.64	16.36	16.09	15.83	15.57
15.900	15.33	15.08	14.85	14.62	14.39
16.150	14.18	13.96	13.75	13.55	13.35
16.400	13.16	12.97	12.79	12.61	12.44
16.650	12.27	12.11	11.95	11.80	11.65
16.900	11.51	11.37	11.24	11.11	10.99
17.150	10.87	10.75	10.64	10.53	10.42
17.400	10.32	10.22	10.12	10.03	9.93
17.650	9.84	9.76	9.67	9.59	9.51
17.900	9.43	9.35	9.28	9.20	9.13
18.150	9.06	8.99	8.92	8.85	8.78
18.400	8.72	8.65	8.59	8.52	8.46
18.650	8.40	8.34	8.28	8.22	8.16
18.900	8.10	8.04	7.98	7.93	7.87
19.150	7.81	7.75	7.70	7.64	7.59
19.400	7.53	7.48	7.44	7.41	7.38
19.650	7.35	7.32	7.29	7.25	7.22
19.900	7.19	7.15	7.12	7.08	7.05
20.150	7.01	6.98	6.94	6.90	6.87
20.400	6.83	6.79	6.75	6.72	6.68
20.650	6.64	6.61	6.57	6.54	6.50
20.900	6.47	6.44	6.40	6.37	6.34
21.150	6.31	6.28	6.25	6.22	6.19
21.400	6.16	6.13	6.11	6.08	6.05
21.650	6.03	6.00	5.98	5.95	5.93
21.900	5.90	5.88	5.86	5.84	5.81
22.150	5.79	5.77	5.75	5.73	5.71
22.400	5.69	5.67	5.65	5.63	5.61
22.650	5.60	5.58	5.56	5.54	5.52
22.900	5.51	5.49	5.47	5.46	5.44
23.150	5.43	5.41	5.39	5.38	5.36
23.400	5.35	5.33	5.32	5.30	5.29
23.650	5.27	5.26	5.25	5.23	5.22
23.900	5.20	5.19	5.18	(N/A)	(N/A)

Subsection: Pond Routed Hydrograph (total out)
Label: Prop_Basin (OUT)
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

Peak Discharge	190.34 ft ³ /s
Time to Peak	12.650 hours
Hydrograph Volume	1,472,696 ft ³

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours

Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
2.900	0.00	0.00	0.00	0.01	0.01
3.150	0.01	0.02	0.02	0.03	0.04
3.400	0.04	0.05	0.06	0.07	0.07
3.650	0.08	0.09	0.10	0.11	0.12
3.900	0.13	0.14	0.15	0.16	0.17
4.150	0.18	0.19	0.20	0.21	0.22
4.400	0.23	0.24	0.24	0.24	0.25
4.650	0.25	0.25	0.25	0.26	0.26
4.900	0.26	0.27	0.27	0.27	0.28
5.150	0.28	0.29	0.29	0.30	0.30
5.400	0.31	0.32	0.33	0.34	0.35
5.650	0.36	0.37	0.38	0.39	0.41
5.900	0.42	0.44	0.45	0.47	0.49
6.150	0.51	0.53	0.54	0.55	0.56
6.400	0.58	0.59	0.61	0.62	0.64
6.650	0.66	0.67	0.69	0.70	0.72
6.900	0.74	0.76	0.77	0.79	0.81
7.150	0.83	0.85	0.87	0.89	0.92
7.400	0.94	0.96	0.97	0.98	0.99
7.650	1.01	1.02	1.03	1.04	1.06
7.900	1.07	1.08	1.10	1.11	1.12
8.150	1.14	1.15	1.17	1.19	1.20
8.400	1.22	1.24	1.25	1.27	1.29
8.650	1.31	1.33	1.35	1.36	1.37
8.900	1.38	1.39	1.40	1.41	1.42
9.150	1.43	1.45	1.46	1.47	1.49
9.400	1.50	1.51	1.53	1.54	1.56
9.650	1.57	1.59	1.61	1.62	1.63
9.900	1.64	1.65	1.66	1.67	1.69
10.150	1.70	1.71	1.72	1.74	1.75
10.400	1.76	1.78	1.79	1.81	1.83
10.650	1.84	1.86	1.87	1.88	1.90
10.900	1.92	1.93	1.95	1.97	1.99
11.150	2.00	2.02	2.05	2.06	2.08
11.400	2.10	2.13	2.15	2.17	2.20
11.650	2.23	2.26	2.30	2.35	2.41
11.900	3.70	9.32	20.15	34.82	52.13
12.150	71.16	90.59	109.08	127.04	142.90
12.400	157.44	169.29	178.47	185.02	188.98
12.650	190.34	189.36	186.45	181.98	176.59
12.900	170.40	163.69	156.70	149.54	142.39
13.150	135.67	129.04	122.56	116.27	110.22
13.400	104.61	99.47	94.54	89.84	85.37

Subsection: Pond Routed Hydrograph (total out)
Label: Prop_Basin (OUT)
Scenario: 50YR-24HR

Return Event: 50 years
Storm Event: 50YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
13.650	81.14	77.13	73.52	70.31	67.25
13.900	64.35	61.60	58.98	56.51	54.17
14.150	51.95	49.86	47.88	46.15	44.63
14.400	43.17	41.78	40.44	39.17	37.96
14.650	36.81	35.72	34.68	33.71	32.78
14.900	31.91	31.08	30.30	29.56	28.85
15.150	28.19	27.55	26.95	26.38	25.84
15.400	25.32	24.82	24.35	23.93	23.60
15.650	23.28	22.96	22.65	22.35	22.05
15.900	21.76	21.47	21.18	20.90	20.63
16.150	20.35	20.08	19.82	19.56	19.31
16.400	19.06	18.81	18.58	18.34	18.12
16.650	17.89	17.68	17.47	17.27	17.07
16.900	16.88	16.69	16.51	16.33	16.16
17.150	16.00	15.84	15.68	15.53	15.38
17.400	15.24	15.10	14.97	14.83	14.70
17.650	14.58	14.45	14.33	14.22	14.10
17.900	13.99	13.88	13.77	13.66	13.56
18.150	13.45	13.35	13.25	13.15	13.05
18.400	12.96	12.86	12.77	12.68	12.58
18.650	12.49	12.40	12.31	12.23	12.14
18.900	12.05	11.96	11.88	11.79	11.71
19.150	11.62	11.54	11.46	11.37	11.29
19.400	11.21	11.13	11.05	10.97	10.88
19.650	10.80	10.72	10.64	10.56	10.48
19.900	10.40	10.32	10.24	10.17	10.09
20.150	10.01	9.93	9.85	9.77	9.70
20.400	9.62	9.55	9.48	9.41	9.34
20.650	9.27	9.20	9.14	9.08	9.02
20.900	8.96	8.91	8.85	8.80	8.75
21.150	8.70	8.66	8.61	8.57	8.53
21.400	8.49	8.45	8.41	8.37	8.34
21.650	8.30	8.27	8.24	8.21	8.18
21.900	8.15	8.12	8.09	8.07	8.04
22.150	8.01	7.99	7.97	7.94	7.92
22.400	7.90	7.87	7.85	7.83	7.81
22.650	7.79	7.77	7.75	7.73	7.71
22.900	7.69	7.67	7.65	7.63	7.61
23.150	7.60	7.58	7.56	7.54	7.53
23.400	7.51	7.49	7.47	7.46	7.45
23.650	7.44	7.43	7.42	7.41	7.40
23.900	7.39	7.38	7.37	(N/A)	(N/A)

Subsection: Pond Routed Hydrograph (total out)
 Label: Prop_Basin (OUT)
 Scenario: 100YR-24HR

Return Event: 100 years
 Storm Event: 100YR-24HR

Peak Discharge	236.26 ft ³ /s
Time to Peak	12.600 hours
Hydrograph Volume	1,787,924 ft ³

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours

Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
2.550	0.00	0.00	0.00	0.01	0.01
2.800	0.01	0.02	0.02	0.03	0.04
3.050	0.05	0.05	0.06	0.07	0.08
3.300	0.09	0.10	0.11	0.13	0.14
3.550	0.15	0.16	0.17	0.18	0.19
3.800	0.21	0.22	0.23	0.24	0.24
4.050	0.25	0.25	0.25	0.25	0.26
4.300	0.26	0.26	0.27	0.27	0.27
4.550	0.28	0.28	0.29	0.29	0.30
4.800	0.30	0.31	0.32	0.33	0.34
5.050	0.35	0.36	0.37	0.38	0.40
5.300	0.41	0.43	0.45	0.46	0.48
5.550	0.50	0.52	0.54	0.55	0.56
5.800	0.58	0.59	0.61	0.63	0.64
6.050	0.66	0.68	0.69	0.71	0.73
6.300	0.75	0.77	0.79	0.81	0.83
6.550	0.85	0.87	0.90	0.92	0.94
6.800	0.96	0.97	0.99	1.00	1.01
7.050	1.03	1.04	1.05	1.07	1.08
7.300	1.10	1.11	1.13	1.14	1.16
7.550	1.17	1.19	1.21	1.23	1.24
7.800	1.26	1.28	1.30	1.32	1.34
8.050	1.35	1.36	1.37	1.38	1.39
8.300	1.40	1.41	1.42	1.43	1.44
8.550	1.45	1.46	1.48	1.49	1.50
8.800	1.51	1.53	1.54	1.56	1.57
9.050	1.59	1.60	1.62	1.63	1.64
9.300	1.65	1.66	1.67	1.68	1.70
9.550	1.71	1.72	1.73	1.75	1.76
9.800	1.77	1.79	1.80	1.81	1.83
10.050	1.84	1.86	1.87	1.88	1.89
10.300	1.91	1.92	1.93	1.95	1.96
10.550	1.98	1.99	2.01	2.03	2.04
10.800	2.06	2.07	2.09	2.11	2.13
11.050	2.14	2.16	2.18	2.20	2.23
11.300	2.25	2.27	2.29	2.31	2.34
11.550	2.36	2.39	2.42	2.46	4.50
11.800	7.16	13.24	21.15	33.13	48.62
12.050	68.36	90.25	112.67	134.70	155.66
12.300	174.93	192.19	207.10	218.96	227.82
12.550	233.57	236.26	236.08	233.33	228.47
12.800	221.94	214.28	205.80	196.83	187.64
13.050	178.52	169.69	160.96	152.44	144.19

Subsection: Pond Routed Hydrograph (total out)
Label: Prop_Basin (OUT)
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)	Flow (ft ³ /s)
13.300	136.65	129.47	122.60	116.06	109.84
13.550	104.19	99.03	94.14	89.51	85.13
13.800	81.01	77.12	73.62	70.52	67.59
14.050	64.80	62.16	59.65	57.28	55.03
14.300	52.91	50.90	48.99	47.19	45.72
14.550	44.34	43.02	41.76	40.57	39.44
14.800	38.37	37.35	36.39	35.48	34.61
15.050	33.79	33.01	32.27	31.57	30.90
15.300	30.26	29.65	29.07	28.52	27.99
15.550	27.48	26.99	26.52	26.07	25.63
15.800	25.21	24.80	24.40	24.03	23.75
16.050	23.47	23.19	22.92	22.64	22.38
16.300	22.11	21.85	21.59	21.33	21.08
16.550	20.84	20.60	20.36	20.13	19.91
16.800	19.69	19.48	19.28	19.07	18.88
17.050	18.69	18.50	18.33	18.15	17.98
17.300	17.81	17.65	17.49	17.34	17.19
17.550	17.04	16.90	16.76	16.62	16.49
17.800	16.36	16.23	16.10	15.98	15.86
18.050	15.74	15.62	15.50	15.39	15.27
18.300	15.16	15.05	14.94	14.83	14.73
18.550	14.62	14.52	14.41	14.31	14.21
18.800	14.11	14.01	13.91	13.81	13.71
19.050	13.61	13.52	13.42	13.32	13.23
19.300	13.13	13.04	12.94	12.85	12.76
19.550	12.66	12.57	12.48	12.38	12.29
19.800	12.20	12.11	12.01	11.92	11.83
20.050	11.74	11.65	11.56	11.47	11.38
20.300	11.29	11.20	11.11	11.03	10.95
20.550	10.86	10.78	10.71	10.63	10.56
20.800	10.49	10.42	10.35	10.29	10.22
21.050	10.16	10.11	10.05	10.00	9.94
21.300	9.89	9.85	9.80	9.75	9.71
21.550	9.67	9.63	9.59	9.55	9.51
21.800	9.48	9.44	9.41	9.38	9.34
22.050	9.31	9.28	9.25	9.22	9.20
22.300	9.17	9.14	9.12	9.09	9.06
22.550	9.04	9.02	8.99	8.97	8.94
22.800	8.92	8.90	8.88	8.85	8.83
23.050	8.81	8.79	8.77	8.75	8.73
23.300	8.71	8.69	8.67	8.65	8.63
23.550	8.61	8.59	8.57	8.55	8.53
23.800	8.51	8.49	8.47	8.45	8.43

Subsection: Pond Inflow Summary
Label: Prop_Basin (IN)
Scenario: 2YR-24HR

Return Event: 2 years
Storm Event: 2YR-24HR

Summary for Hydrograph Addition at 'Prop_Basin'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	P-A
<Catchment to Outflow Node>	P-B

Node Inflows

Inflow Type	Element	Volume (ft ³)	Time to Peak (hours)	Flow (Peak) (ft ³ /s)
Flow (From)	P-A	113,177	12.050	36.53
Flow (From)	P-B	454,689	12.350	76.94
Flow (In)	Prop_Basin	567,867	12.350	86.89

Subsection: Pond Inflow Summary

Label: Prop_Basin (IN)

Scenario: 10YR-24HR

Return Event: 10 years

Storm Event: 10YR-24HR

Summary for Hydrograph Addition at 'Prop_Basin'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	P-A
<Catchment to Outflow Node>	P-B

Node Inflows

Inflow Type	Element	Volume (ft ³)	Time to Peak (hours)	Flow (Peak) (ft ³ /s)
Flow (From)	P-A	197,380	12.050	62.03
Flow (From)	P-B	878,037	12.350	150.43
Flow (In)	Prop_Basin	1,075,416	12.250	167.13

Subsection: Pond Inflow Summary

Label: Prop_Basin (IN)

Scenario: 50YR-24HR

Return Event: 50 years

Storm Event: 50YR-24HR

Summary for Hydrograph Addition at 'Prop_Basin'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	P-A
<Catchment to Outflow Node>	P-B

Node Inflows

Inflow Type	Element	Volume (ft ³)	Time to Peak (hours)	Flow (Peak) (ft ³ /s)
Flow (From)	P-A	301,915	12.050	92.60
Flow (From)	P-B	1,425,788	12.350	242.79
Flow (In)	Prop_Basin	1,727,703	12.250	268.06

Subsection: Pond Inflow Summary
Label: Prop_Basin (IN)
Scenario: 100YR-24HR

Return Event: 100 years
Storm Event: 100YR-24HR

Summary for Hydrograph Addition at 'Prop_Basin'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	P-A
<Catchment to Outflow Node>	P-B

Node Inflows

Inflow Type	Element	Volume (ft ³)	Time to Peak (hours)	Flow (Peak) (ft ³ /s)
Flow (From)	P-A	352,251	12.050	107.06
Flow (From)	P-B	1,693,982	12.350	287.13
Flow (In)	Prop_Basin	2,046,233	12.250	316.53

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