



Shephard ▲ Wesnitzer, Inc.

110 West Dale Avenue
Flagstaff, AZ 86001

928.773.0354
928.774.8934 fax

www.swiaz.com

Engineering an environment of excellence.

Attention: Doug Slover
City of Flagstaff
211 W. Aspen Ave.
Flagstaff, AZ 86001



February 24, 2022
SWI # 21214

**RE: RESTORATION SOILS YARD (Preliminary Drainage Letter)
COF Project No. PZ-21-00117**

Dear Mr. Slover:

This drainage letter is being provided to support the Site Plan submittal for the proposed Restoration Soils Yard development located on ASLD land at the intersection of N. El Paso Flagstaff Rd and W. Historic Route 66. The site is currently zoned Highway Commercial but will be rezoned to Heavy Industrial - Open with the proposed project. Access to the site will be provided by two driveways to N. El Paso Flagstaff Rd. The overall state land is approximately 51.41 acres. The proposed site will be constructed on approximately 7.29 acres with the development located on the eastern 4.01 acres of the site. The proposed development consists a new gravel road and a concrete pad with 4 parking spots.

The objective of this letter is to determine the impact the proposed development will have on the runoff characteristics of the site. Mitigation measures will be provided for the adverse impacts to the runoff conditions per the City of Flagstaff Stormwater Management Design Manual (COFSMDM).

Hydrology

The SCS TR-55 Method was used to determine peak runoff rates for the pre-development and post-development conditions. Rainfall data was taken from the COFSMDM.

The property is currently undeveloped with vegetation consisting of native grasses. The site is currently stockpiled with non-native material. Soils on the site were determined to consist of stony loam material per the NRCS Web Soil Survey. The property is relatively flat with the exception of some steeper slopes to the West. The site currently drains west and north/west at a 2-3% slope towards Rio De Flag. The high point of the site is located in the northeast and southeast of the property. A small portion on the southeast corner

drains south towards W. Historic Route 66. A narrow strip of land by the easterly property line drains to the east to an existing road ditch along N. El Paso Flagstaff Rd.

The proposed grading and drainage plan was used to delineate Post-development Drainage Basins (A and B), which generally match the existing drainage patterns. Since this project is located on a portion of the overall site the drainage analysis is only for the eastern portion of the site draining west towards the Rio De Flag.

DETENTION/LID

Bentley's *PondPack* computer program was used to calculate the pre- and post-developed hydrographs for the Type II, 2-year, 10-year, and 100-year, 24-hour storm events for each basin. PondPack calculations utilized the SCS TR-55 Method. Curve Numbers (CNs) were determined based on existing soil conditions, proposed improvements, and weighted based on coverage area. The modeling report from PondPack and a drainage exhibit showing Pre- and Post-development basins are included as attachments to this letter. The table below summarizes the pre vs. post preliminary required storage volumes for the project.

Table 1: Peak Discharge Rates

| Peak Discharge Rates | | | | | | |
|--|--------------|----------|----|--------------------|-----------------|------------------|
| Pre-Development Condition Peak Discharge Rates | | | | | | |
| Basin ID | Area (acres) | Tc (hr) | CN | Runoff Flows (cfs) | | |
| | | | | Q ₂ | Q ₁₀ | Q ₁₀₀ |
| A | 5.07 | 1.21 | 80 | - | 2.59 | 5.83 |
| B | 2.07 | 1.35 | 80 | - | 0.98 | 2.21 |
| Post-Development Condition Peak Discharge Rates | | | | | | |
| Basin ID | Area (acres) | Tc (min) | CN | Runoff Flows (cfs) | | |
| | | | | Q ₂ | Q ₁₀ | Q ₁₀₀ |
| A | 6.75 | 1.21 | 81 | 1.13 | 3.83 | 5.97 |
| B | 0.39 | 1.35 | 80 | 0.09 | 0.21 | 0.46 |

Table 2: Detention Volume

| Pre-Development Conditions Runoff Volumes | | | | |
|---|--------------|----------|--------------|--------------------|
| Basin ID | Area (acres) | Tc (min) | Curve Number | Runoff Volume (cf) |
| A | 5.07 | 1.21 | 80 | 45,458 |
| B | 2.07 | 1.35 | 80 | 18,509 |
| | | | | |
| Post-Development Conditions Runoff Volumes | | | | |
| Area (acres) | Area (acres) | Tc (min) | Curve Number | Runoff Volume (cf) |
| A | 6.75 | 1.21 | 81 | 64,990 |
| B | 0.39 | 1.35 | 80 | 3,832 |
| | | | | |
| Required Retention Volume (cf) | | | | 4,855 |

Due to the decrease of basin area in the post-development condition for basin B, the runoff volume of the basin (B2) will decrease in the post-development condition; therefore, no detention of stormwater runoff for B is required. The required storage volume for basin A in the post-development condition resulted in 4,855 cubic feet. Storage is required for Basin A, which will be provided by the Retention basin. The site will continue to slope to the northeast and surface drain into the basin that will provide approximately 5,000 cubic feet. The outlet structure will consist of a berm, weir and discharge pipe with an orifice to drain the basin within 24 to 36 hours.

This project is required to account for the first flush of 1 inch over all new impervious areas per the COFSMDM. There is no impervious cover for the pre-development conditions. The increase in proposed impervious cover is 15,117 square feet, which results in 1,260 cubic feet of required LID volume. The retention basin will provide the LID volume required for the project. The treatment of this volume is achieved through the use of vegetated swales, see attached Hydraflow design report. The table below summarizes the impervious area coverage and required LID Volume for the project.

Table 3 – Impervious Area/LID Summary

| Impervious Area & LID Analysis | | | | | |
|--|-----------------|-------------------------------|-------------------------------|--------------------------|--------------------------|
| LID Required Depth (ft) | | | | | 0.0833 |
| Basin ID | Basin Area (sf) | Existing Impervious Area (sf) | Proposed Impervious Area (sf) | Net Impervious Area (sf) | Required LID Volume (CF) |
| A | 693,835 | 0 | 15,117 | 15,117 | 1,260 |
| 1. Gross required 1" LID volume is for all post-development impervious area including streets, parking, sidewalks and buildings. | | | | | |

Safe overflow of the pond is provided with a riprap lined weir. The overflow weir will be further designed during constructions plans.

CONCLUSION

Peak discharge rates for the 2-, 10- and 100-year storm events were determined for the project site for both the pre- and post-development conditions. Runoff volumes for the 100-year storm event were calculated to determine the detention volumes required at each drainage basin. The drainage design for the Restoration Soils Yard Project will be designed to retain the difference between the pre- and post-development runoff volumes for the Project basins. All drainage conveyance structures and retention facilities will be designed per the requirements outlined in the COFSMDM and LIDM. Refer to the Drainage Exhibits and Concept Plan prepared by SWI for locations and notes.

The design concepts in this report will ensure that the drainage integrity of the site is sustained with proper maintenance activity. Activities include frequent clearing of debris and sediment from the retention facilities and swales, disturbed slope treatment and

erosion control at the outlet pipe. Frequent monitoring will ensure expedient remedies to common problems such as erosion, sedimentation, and flow obstructions.

REFERENCES

Publications

City of Flagstaff Stormwater Management Design Manual, March 2009
Ordinance 2012-03, April 2012
City of Flagstaff Low Impact Development Manual, January 2009
TR-55, Urban Hydrology for Small Watersheds, NRCS, June 1986

Software

PondPack, Bentley Systems, Inc., Version 8i

Refer to the Grading & Drainage Plan for the location of the proposed stormwater discharge point and the proposed site design.

Please let us know if you have any questions, comments, or need any additional information.

Sincerely,
Shephard – Wesnitzer, Inc.

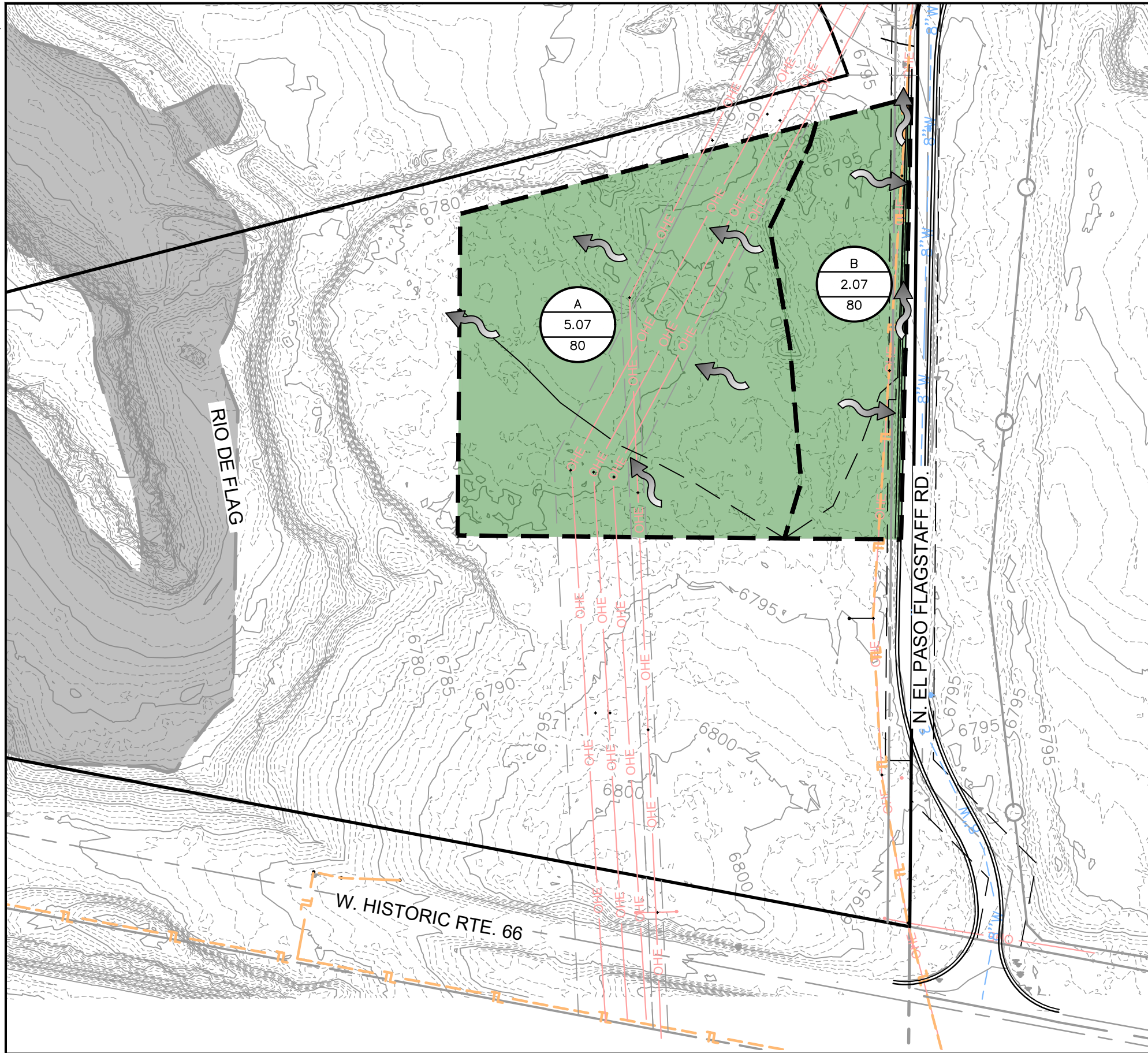
Stephen C. Irwin, P.E.
Project Engineer

Attachments:




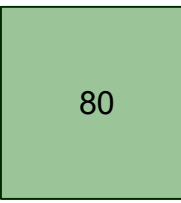


- Drainage Exhibit
- NRCS Web Soil Survey
- Hydraflow Report
- PondPack Report

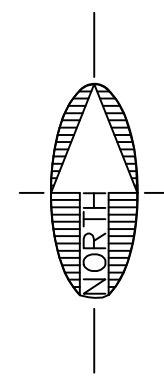
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FILE: P:\2021\21214\ENGINEERING\DRAINAGE\HYDROLOGY\DRAINAGE AREA.DWG JERIKSSON



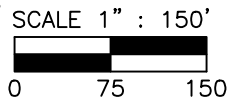
LEGEND

-  PRE DEVELOPMENT BASIN DELINEATION
-  SHEET FLOW
-  SHALLOW CONCENTRATED FLOW
-  80 HERBACEOUS AREA
-  DRAINAGE ARROW
-  ID = BASIN IDENTIFICATION
A = AREA IN ACRES
CN = SCS CURVE NUMBER



PRELIMINARY

NOT FOR CONSTRUCTION,
BIDDING OR RECORDING



C.O.F. Project # PZ 21-00117

Contact Arizona 811 at least two full working days before you begin excavation



Call 811 or click Arizona811.com

| REVISIONS | | | |
|-----------|-------------|------|----|
| NO. | DESCRIPTION | DATE | BY |
| | | | |
| | | | |
| | | | |



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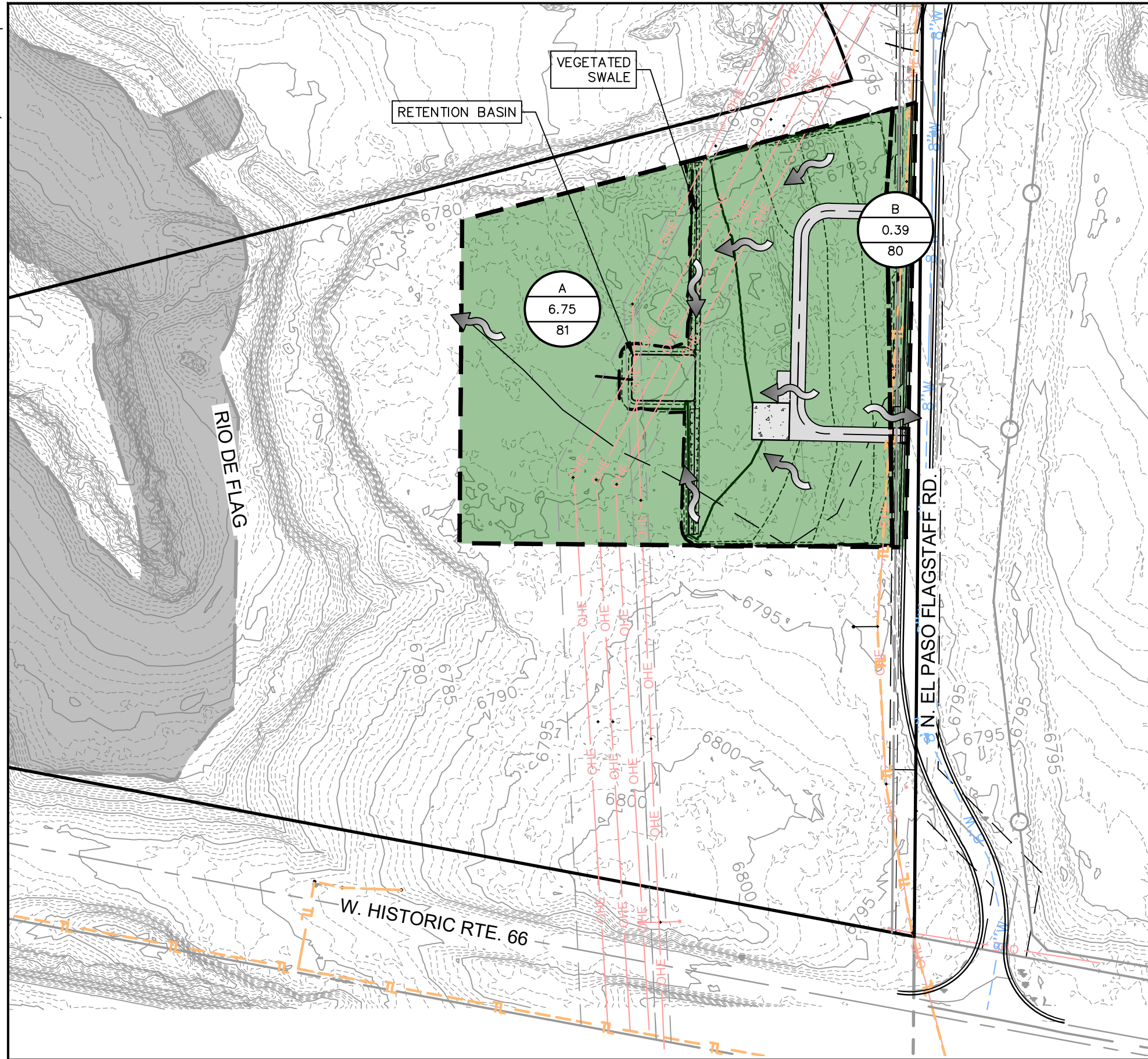
JOB NO: 21214
DATE: JAN 22
SCALE: AS SHOWN
DRAWN: JEE
DESIGN: JEE, CNP
CHECKED: SCI

RESTORATION SOILS YARD
PRE-DEVELOPMENT DRAINAGE MAP
FLAGSTAFF ARIZONA




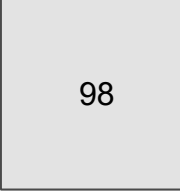



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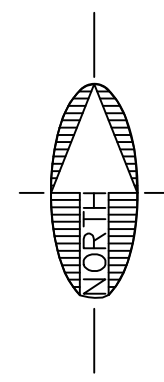
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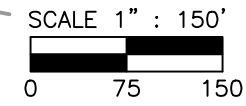
LEGEND

-  POST DEVELOPMENT BASIN DELINEATION
-  SHEET FLOW
-  SHALLOW CONCENTRATED FLOW
-  98 ROW/ IMPERVIOUS AREA
-  77 HERBACEOUS AREA
-  DRAINAGE ARROW
-  ID = BASIN IDENTIFICATION
A = AREA IN ACRES
CN = SCS CURVE NUMBER



PRELIMINARY

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BIDDING OR RECORDING



C.O.F. Project # PZ 21-00117

Contact Arizona 811 at least two full working days before you begin excavation



Call 811 or click Arizona811.com

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JOB NO: 21214
DATE: JAN 22
SCALE: AS SHOWN
DRAWN: JEE
DESIGN: JEE, CNP
CHECKED: SCI

RESTORATION SOILS YARD
POST-DEVELOPMENT DRAINAGE MAP

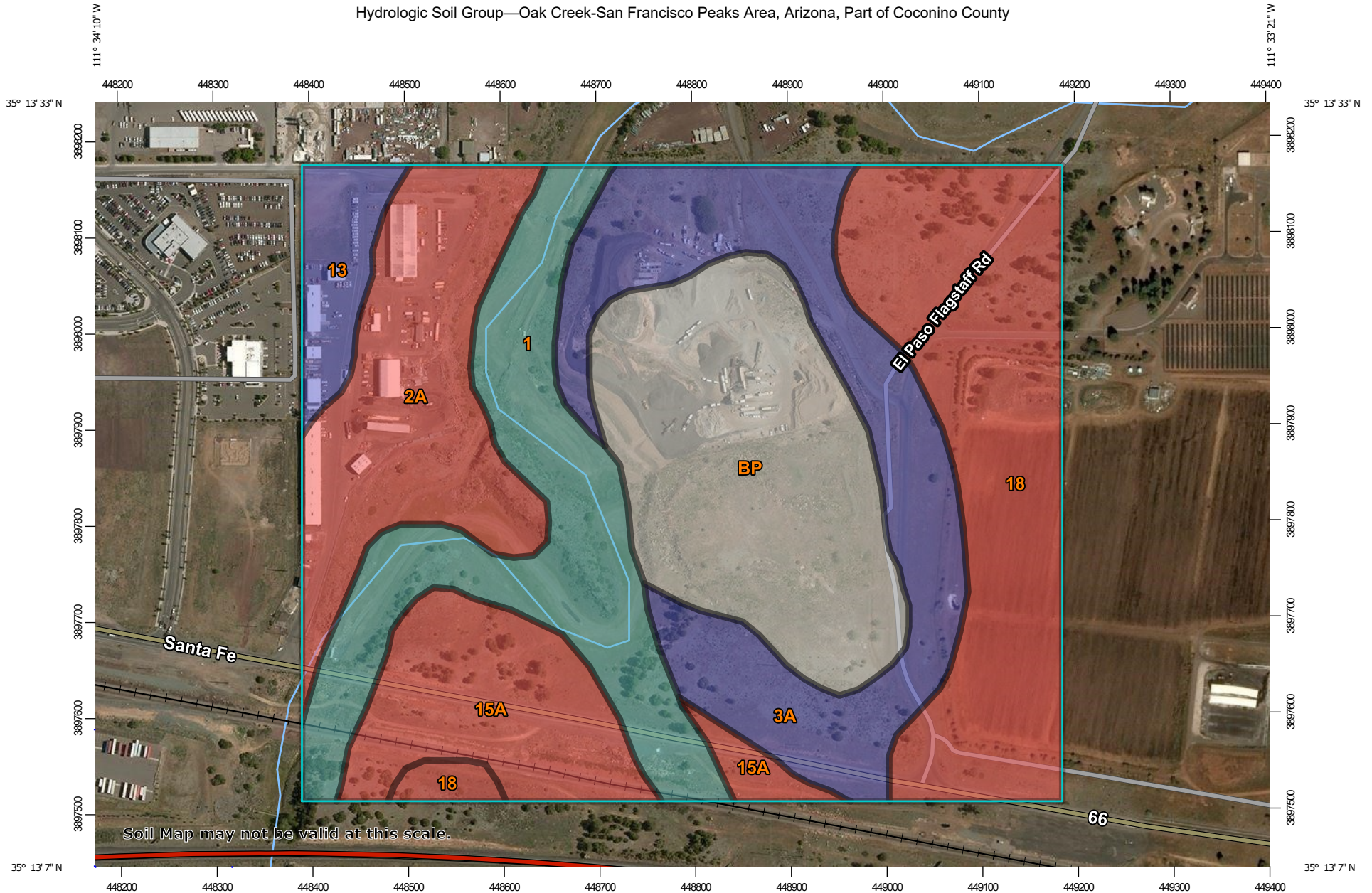
FLAGSTAFF ARIZONA

SHEET

D02

OF 2

Hydrologic Soil Group—Oak Creek-San Francisco Peaks Area, Arizona, Part of Coconino County



Map Scale: 1:5,610 if printed on A landscape (11" x 8.5") sheet.

0 50 100 200 300 Meters


0 250 500 1000 1500 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 12N WGS84



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: Oak Creek-San Francisco Peaks Area, Arizona, Part of Coconino County
 Survey Area Data: Version 11, Sep 16, 2021

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

Date(s) aerial images were photographed: Aug 13, 2010—Jun 25, 2015

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 |
|------------------------------------|---|--------|--------------|----------------|
| 1 | Jacques clay loam, 0 to 2 percent slopes | C | 20.4 | 15.6% |
| 2A | Brolliar stony clay loam, 2 to 8 percent slopes | D | 17.5 | 13.4% |
| 3A | Baldy stony loam, 8 to 15 percent slopes | B | 23.4 | 17.9% |
| 13 | Lynx loam, 0 to 2 percent slopes | B | 4.4 | 3.4% |
| 15A | Tortugas-Daze complex, 0 to 15 percent slopes | D | 13.0 | 10.0% |
| 18 | Boysag gravelly loam, 0 to 8 percent slopes | D | 26.8 | 20.5% |
| BP | Pits-Dumps complex | | 25.0 | 19.1% |
| Totals for Area of Interest | | | 130.5 | 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

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Channel Report

VEGITATED SWALE - 21214

Trapezoidal

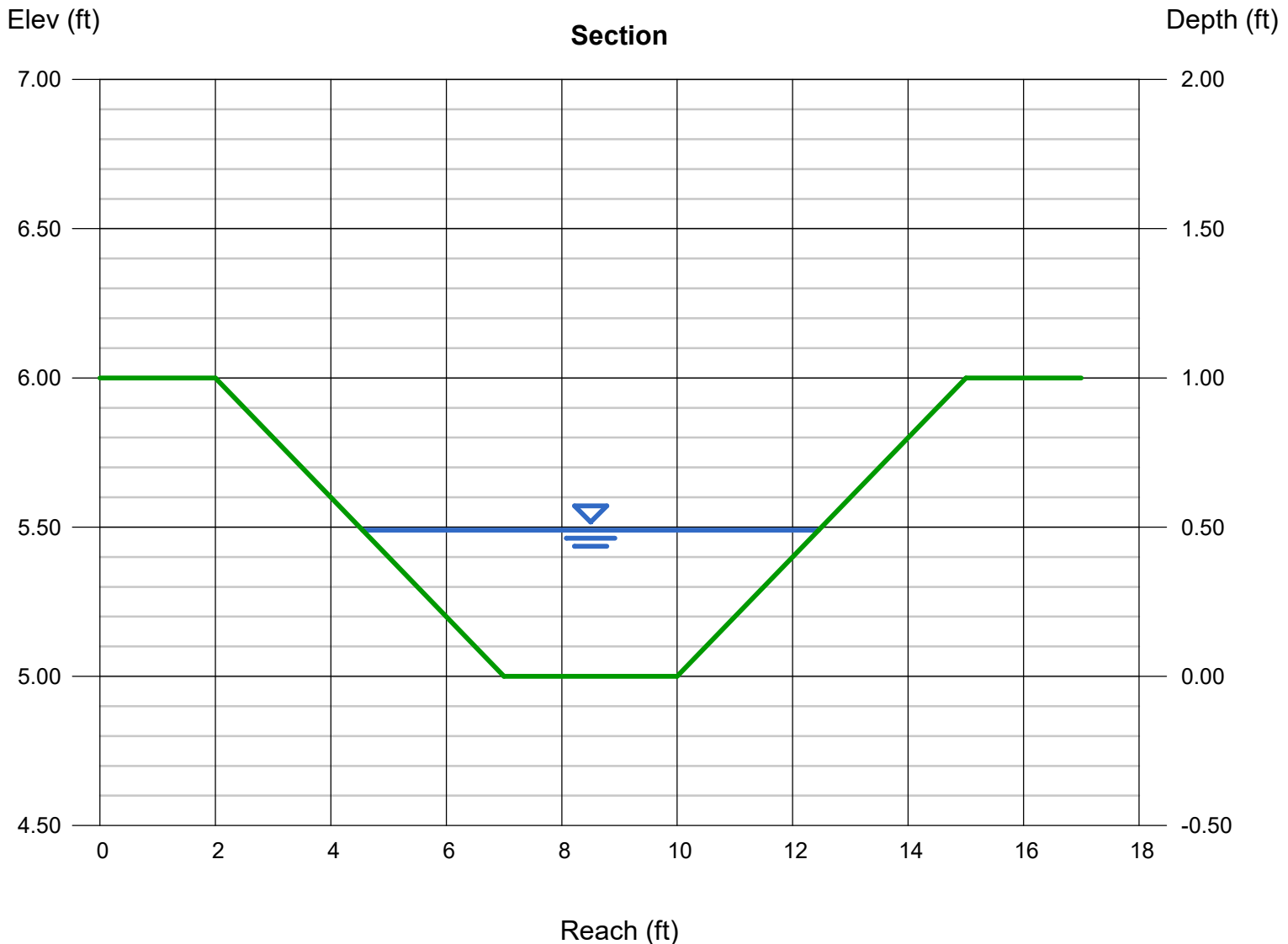
Bottom Width (ft) = 3.00
Side Slopes (z:1) = 5.00, 5.00
Total Depth (ft) = 1.00
Invert Elev (ft) = 5.00
Slope (%) = 0.60
N-Value = 0.055

Highlighted

Depth (ft) = 0.49
Q (cfs) = 2.660
Area (sqft) = 2.67
Velocity (ft/s) = 1.00
Wetted Perim (ft) = 8.00
Crit Depth, Y_c (ft) = 0.26
Top Width (ft) = 7.90
EGL (ft) = 0.51

Calculations

Compute by: Known Q
Known Q (cfs) = 2.66



Pond pack 21214

Project Summary

| | |
|----------|------------------------------------|
| Title | 21214 RESTORATION SOILS YARD |
| Engineer | JEE |
| Company | SWI |
| Date | 1/18/2022 |

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| | Addition Summary, 100 years | 82 |

Pond pack 21214

Subsection: User Notifications

| | |
|---------------------|----------------------------------|
| User Notifications? | No user notifications generated. |
|---------------------|----------------------------------|

Pond pack 21214

Subsection: Master Network Summary

Catchments Summary

| Label | Scenario | Return Event (years) | Hydrograph Volume (ft ³) | Time to Peak (hours) | Peak Flow (ft ³ /s) |
|------------------|---------------------------|----------------------|--------------------------------------|----------------------|--------------------------------|
| BASIN B EXISTING | Pre-Development 10 YEAR | 10 | 8,521.000 | 12.750 | 0.98 |
| BASIN B EXISTING | Pre-Development 100 YEAR | 100 | 18,509.000 | 12.750 | 2.21 |
| BASIN A EXISTING | Pre-Development 10 YEAR | 10 | 20,934.000 | 12.650 | 2.59 |
| BASIN A EXISTING | Pre-Development 100 YEAR | 100 | 45,458.000 | 12.650 | 5.83 |
| BASIN A PROPOSED | Post-Development 2 YEAR | 2 | 13,709.000 | 13.200 | 1.13 |
| BASIN A PROPOSED | Post-Development 10 YEAR | 10 | 30,771.000 | 12.650 | 3.84 |
| BASIN A PROPOSED | Post-Development 100 YEAR | 100 | 64,990.000 | 13.150 | 5.97 |
| BASIN B PROPOSED | Post-Development 2 YEAR | 2 | 811.000 | 12.750 | 0.09 |
| BASIN B PROPOSED | Post-Development 10 YEAR | 10 | 1,794.000 | 12.750 | 0.21 |
| BASIN B PROPOSED | Post-Development 100 YEAR | 100 | 3,832.000 | 12.750 | 0.46 |

Node Summary

| Label | Scenario | Return Event (years) | Hydrograph Volume (ft ³) | Time to Peak (hours) | Peak Flow (ft ³ /s) |
|----------|---------------------------|----------------------|--------------------------------------|----------------------|--------------------------------|
| OUTLET B | Post-Development 2 YEAR | 2 | 811.000 | 12.750 | 0.09 |
| OUTLET B | Post-Development 10 YEAR | 10 | 1,794.000 | 12.750 | 0.21 |
| OUTLET B | Pre-Development 10 YEAR | 10 | 8,521.000 | 12.750 | 0.98 |
| OUTLET B | Post-Development 100 YEAR | 100 | 3,832.000 | 12.750 | 0.46 |
| OUTLET B | Pre-Development 100 YEAR | 100 | 18,509.000 | 12.750 | 2.21 |
| OUTLET A | Post-Development 2 YEAR | 2 | 13,709.000 | 13.200 | 1.13 |
| OUTLET A | Post-Development 10 YEAR | 10 | 30,771.000 | 12.650 | 3.84 |
| OUTLET A | Pre-Development 10 YEAR | 10 | 20,934.000 | 12.650 | 2.59 |
| OUTLET A | Post-Development 100 YEAR | 100 | 64,990.000 | 13.150 | 5.97 |
| OUTLET A | Pre-Development 100 YEAR | 100 | 45,458.000 | 12.650 | 5.83 |

Pond pack 21214

Subsection: Time-Depth Curve
 Label: Time-Depth - 1

Return Event: 10 years
 Storm Event: 10 YEAR 24 HR

| Time-Depth Curve: 10 YEAR 24 HR | |
|---------------------------------|---------------|
| Label | 10 YEAR 24 HR |
| 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 | 0.0 |
| 1.000 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.500 | 0.0 | 0.0 | 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 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 4.000 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| 4.500 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 5.000 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 5.500 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 6.000 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 |
| 6.500 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 7.000 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 7.500 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 8.000 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 |
| 8.500 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 9.000 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 |
| 9.500 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 10.000 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 |
| 10.500 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 |
| 11.000 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 |
| 11.500 | 0.8 | 0.9 | 1.0 | 1.2 | 1.6 |
| 12.000 | 1.9 | 2.0 | 2.0 | 2.1 | 2.1 |
| 12.500 | 2.1 | 2.1 | 2.2 | 2.2 | 2.2 |
| 13.000 | 2.2 | 2.2 | 2.3 | 2.3 | 2.3 |
| 13.500 | 2.3 | 2.3 | 2.3 | 2.3 | 2.4 |
| 14.000 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 14.500 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 15.000 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 15.500 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 16.000 | 2.5 | 2.5 | 2.5 | 2.6 | 2.6 |
| 16.500 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |

Pond pack 21214

Subsection: Time-Depth Curve

Label: Time-Depth - 1

Return Event: 10 years

Storm Event: 10 YEAR 24 HR

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) |
|--------------|------------|------------|------------|------------|------------|
| 17.000 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 17.500 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 18.000 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 18.500 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 19.000 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 19.500 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 20.000 | 2.7 | 2.7 | 2.7 | 2.8 | 2.8 |
| 20.500 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 21.000 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 21.500 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 22.000 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 22.500 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 23.000 | 2.8 | 2.9 | 2.9 | 2.9 | 2.9 |
| 23.500 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 24.000 | 2.9 | (N/A) | (N/A) | (N/A) | (N/A) |

Pond pack 21214

Subsection: Time-Depth Curve

Label: Time-Depth - 1

Return Event: 10 years

Storm Event: 10 YEAR 24 HR

Time-Depth Curve: 10 YEAR 24 HR

| | |
|--------------|---------------|
| Label | 10 YEAR 24 HR |
| 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 | 0.0 |
| 1.000 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.500 | 0.0 | 0.0 | 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 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 4.000 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| 4.500 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 5.000 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 5.500 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 6.000 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 |
| 6.500 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 7.000 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 7.500 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 8.000 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 |
| 8.500 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 9.000 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 |
| 9.500 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 10.000 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 |
| 10.500 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 |
| 11.000 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 |
| 11.500 | 0.8 | 0.9 | 1.0 | 1.2 | 1.6 |
| 12.000 | 1.9 | 2.0 | 2.0 | 2.1 | 2.1 |
| 12.500 | 2.1 | 2.1 | 2.2 | 2.2 | 2.2 |
| 13.000 | 2.2 | 2.2 | 2.3 | 2.3 | 2.3 |
| 13.500 | 2.3 | 2.3 | 2.3 | 2.3 | 2.4 |
| 14.000 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 14.500 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 15.000 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 15.500 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 16.000 | 2.5 | 2.5 | 2.5 | 2.6 | 2.6 |
| 16.500 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |

Pond pack 21214

Subsection: Time-Depth Curve

Label: Time-Depth - 1

Return Event: 10 years

Storm Event: 10 YEAR 24 HR

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) |
|--------------|------------|------------|------------|------------|------------|
| 17.000 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 17.500 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 18.000 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 18.500 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 19.000 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 19.500 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 20.000 | 2.7 | 2.7 | 2.7 | 2.8 | 2.8 |
| 20.500 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 21.000 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 21.500 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 22.000 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 22.500 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 23.000 | 2.8 | 2.9 | 2.9 | 2.9 | 2.9 |
| 23.500 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 24.000 | 2.9 | (N/A) | (N/A) | (N/A) | (N/A) |

Pond pack 21214

Subsection: Time-Depth Curve
 Label: Time-Depth - 1

Return Event: 100 years
 Storm Event: 100 YEAR 24 HR

| Time-Depth Curve: 100 YEAR 24 HR | |
|----------------------------------|----------------|
| Label | 100 YEAR 24 HR |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.000 | 0.0 | 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 | 0.1 |
| 2.500 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| 3.000 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 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 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 5.000 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 5.500 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 |
| 6.000 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 6.500 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 7.000 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 7.500 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 8.000 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 |
| 8.500 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 |
| 9.000 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 9.500 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| 10.000 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 |
| 10.500 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 |
| 11.000 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 |
| 11.500 | 1.3 | 1.4 | 1.6 | 2.0 | 2.6 |
| 12.000 | 3.0 | 3.1 | 3.2 | 3.3 | 3.3 |
| 12.500 | 3.4 | 3.4 | 3.4 | 3.5 | 3.5 |
| 13.000 | 3.5 | 3.5 | 3.6 | 3.6 | 3.6 |
| 13.500 | 3.6 | 3.7 | 3.7 | 3.7 | 3.7 |
| 14.000 | 3.7 | 3.8 | 3.8 | 3.8 | 3.8 |
| 14.500 | 3.8 | 3.8 | 3.8 | 3.9 | 3.9 |
| 15.000 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 15.500 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 16.000 | 4.0 | 4.0 | 4.0 | 4.0 | 4.1 |
| 16.500 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |

Pond pack 21214

Subsection: Time-Depth Curve

Label: Time-Depth - 1

Return Event: 100 years

Storm Event: 100 YEAR 24 HR

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) |
|--------------|------------|------------|------------|------------|------------|
| 17.000 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 17.500 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 18.000 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 18.500 | 4.2 | 4.2 | 4.3 | 4.3 | 4.3 |
| 19.000 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 19.500 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 20.000 | 4.3 | 4.3 | 4.4 | 4.4 | 4.4 |
| 20.500 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 21.000 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 21.500 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 22.000 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 22.500 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 23.000 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 23.500 | 4.5 | 4.5 | 4.5 | 4.5 | 4.6 |
| 24.000 | 4.6 | (N/A) | (N/A) | (N/A) | (N/A) |

Pond pack 21214

Subsection: Time-Depth Curve
 Label: Time-Depth - 1

Return Event: 100 years
 Storm Event: 100 YEAR 24 HR

| Time-Depth Curve: 100 YEAR 24 HR | |
|----------------------------------|----------------|
| Label | 100 YEAR 24 HR |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.000 | 0.0 | 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 | 0.1 |
| 2.500 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| 3.000 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 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 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 5.000 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 5.500 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 |
| 6.000 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 6.500 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 7.000 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 7.500 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 8.000 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 |
| 8.500 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 |
| 9.000 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 9.500 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| 10.000 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 |
| 10.500 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 |
| 11.000 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 |
| 11.500 | 1.3 | 1.4 | 1.6 | 2.0 | 2.6 |
| 12.000 | 3.0 | 3.1 | 3.2 | 3.3 | 3.3 |
| 12.500 | 3.4 | 3.4 | 3.4 | 3.5 | 3.5 |
| 13.000 | 3.5 | 3.5 | 3.6 | 3.6 | 3.6 |
| 13.500 | 3.6 | 3.7 | 3.7 | 3.7 | 3.7 |
| 14.000 | 3.7 | 3.8 | 3.8 | 3.8 | 3.8 |
| 14.500 | 3.8 | 3.8 | 3.8 | 3.9 | 3.9 |
| 15.000 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 15.500 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 16.000 | 4.0 | 4.0 | 4.0 | 4.0 | 4.1 |
| 16.500 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |

Pond pack 21214

Subsection: Time-Depth Curve
 Label: Time-Depth - 1

Return Event: 100 years
 Storm Event: 100 YEAR 24 HR

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) |
|--------------|------------|------------|------------|------------|------------|
| 17.000 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 17.500 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 18.000 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 18.500 | 4.2 | 4.2 | 4.3 | 4.3 | 4.3 |
| 19.000 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 19.500 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 20.000 | 4.3 | 4.3 | 4.4 | 4.4 | 4.4 |
| 20.500 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 21.000 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 21.500 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 22.000 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 22.500 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 23.000 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 23.500 | 4.5 | 4.5 | 4.5 | 4.5 | 4.6 |
| 24.000 | 4.6 | (N/A) | (N/A) | (N/A) | (N/A) |

Pond pack 21214

Subsection: Time-Depth Curve

Label: Time-Depth - 1

Return Event: 2 years
Storm Event: 2 YEAR 24 HR

| Time-Depth Curve: 2 YEAR 24 HR | |
|--------------------------------|--------------|
| Label | 2 YEAR 24 HR |
| 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 | 0.0 | 0.0 |
| 1.500 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.000 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 4.000 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 4.500 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 5.000 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 5.500 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| 6.000 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 6.500 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 7.000 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 7.500 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 8.000 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 8.500 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 9.000 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 9.500 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 10.000 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 |
| 10.500 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 11.000 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 11.500 | 0.5 | 0.6 | 0.7 | 0.8 | 1.1 |
| 12.000 | 1.3 | 1.3 | 1.3 | 1.4 | 1.4 |
| 12.500 | 1.4 | 1.4 | 1.4 | 1.5 | 1.5 |
| 13.000 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 13.500 | 1.5 | 1.5 | 1.6 | 1.6 | 1.6 |
| 14.000 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 14.500 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 15.000 | 1.6 | 1.6 | 1.6 | 1.7 | 1.7 |
| 15.500 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 16.000 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 16.500 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |

Pond pack 21214

Subsection: Time-Depth Curve

Label: Time-Depth - 1

Return Event: 2 years

Storm Event: 2 YEAR 24 HR

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) |
|--------------|------------|------------|------------|------------|------------|
| 17.000 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 17.500 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 18.000 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 18.500 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 19.000 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 19.500 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 20.000 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 20.500 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 21.000 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 21.500 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 22.000 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 22.500 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 23.000 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 23.500 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 24.000 | 1.9 | (N/A) | (N/A) | (N/A) | (N/A) |

Pond pack 21214

Subsection: Time of Concentration Calculations
Label: BASIN A EXISTING

Return Event: 10 years
Storm Event: 10 YEAR 24 HR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow

| | |
|-------------------------------|-------------|
| Hydraulic Length | 300.00 ft |
| Manning's n | 0.400 |
| Slope | 0.018 ft/ft |
| 2 Year 24 Hour Depth | 1.9 in |
| Average Velocity | 0.07 ft/s |
| Segment Time of Concentration | 1.161 hours |

Segment #2: TR-55 Shallow Concentrated Flow

| | |
|-------------------------------|-------------|
| Hydraulic Length | 242.00 ft |
| Is Paved? | False |
| Slope | 0.006 ft/ft |
| Average Velocity | 1.25 ft/s |
| Segment Time of Concentration | 0.054 hours |

Time of Concentration (Composite)

| | |
|-----------------------------------|-------------|
| Time of Concentration (Composite) | 1.214 hours |
|-----------------------------------|-------------|

Pond pack 21214

Subsection: Time of Concentration Calculations
Label: BASIN A EXISTING

Return Event: 10 years
Storm Event: 10 YEAR 24 HR

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{2/3}) * (Sf^{*-0.5})) / n$
 $(Lf / V) / 3600$
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Where: Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Unpaved surface:
 $V = 16.1345 * (Sf^{*0.5})$
Tc = Paved Surface:
 $V = 20.3282 * (Sf^{*0.5})$
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Where: Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Pond pack 21214

Subsection: Time of Concentration Calculations
Label: BASIN A EXISTING

Return Event: 100 years
Storm Event: 100 YEAR 24 HR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow

| | |
|-------------------------------|-------------|
| Hydraulic Length | 300.00 ft |
| Manning's n | 0.400 |
| Slope | 0.018 ft/ft |
| 2 Year 24 Hour Depth | 1.9 in |
| Average Velocity | 0.07 ft/s |
| Segment Time of Concentration | 1.161 hours |

Segment #2: TR-55 Shallow Concentrated Flow

| | |
|-------------------------------|-------------|
| Hydraulic Length | 242.00 ft |
| Is Paved? | False |
| Slope | 0.006 ft/ft |
| Average Velocity | 1.25 ft/s |
| Segment Time of Concentration | 0.054 hours |

Time of Concentration (Composite)

| | |
|-----------------------------------|-------------|
| Time of Concentration (Composite) | 1.214 hours |
|-----------------------------------|-------------|

Pond pack 21214

Subsection: Time of Concentration Calculations
Label: BASIN A EXISTING

Return Event: 100 years
Storm Event: 100 YEAR 24 HR

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{2/3}) * (Sf^{*-0.5})) / n$
 $(Lf / V) / 3600$
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Where: Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Unpaved surface:
 $V = 16.1345 * (Sf^{*0.5})$
Tc = Paved Surface:
 $V = 20.3282 * (Sf^{*0.5})$
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Where: Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Pond pack 21214

Subsection: Time of Concentration Calculations
Label: BASIN B EXISTING

Return Event: 10 years
Storm Event: 10 YEAR 24 HR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow

| | |
|-------------------------------|-------------|
| Hydraulic Length | 276.00 ft |
| Manning's n | 0.400 |
| Slope | 0.013 ft/ft |
| 2 Year 24 Hour Depth | 1.9 in |
| Average Velocity | 0.06 ft/s |
| Segment Time of Concentration | 1.243 hours |

Segment #2: TR-55 Shallow Concentrated Flow

| | |
|-------------------------------|-------------|
| Hydraulic Length | 377.00 ft |
| Is Paved? | False |
| Slope | 0.004 ft/ft |
| Average Velocity | 1.02 ft/s |
| Segment Time of Concentration | 0.103 hours |

Time of Concentration (Composite)

| | |
|-----------------------------------|-------------|
| Time of Concentration (Composite) | 1.346 hours |
|-----------------------------------|-------------|

Pond pack 21214

Subsection: Time of Concentration Calculations
Label: BASIN B EXISTING

Return Event: 10 years
Storm Event: 10 YEAR 24 HR

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{2/3}) * (Sf^{*-0.5})) / n$
 $(Lf / V) / 3600$
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Where: Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Unpaved surface:
 $V = 16.1345 * (Sf^{*0.5})$
Tc = Paved Surface:
 $V = 20.3282 * (Sf^{*0.5})$
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Where: Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Pond pack 21214

Subsection: Time of Concentration Calculations
Label: BASIN B EXISTING

Return Event: 100 years
Storm Event: 100 YEAR 24 HR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow

| | |
|-------------------------------|-------------|
| Hydraulic Length | 276.00 ft |
| Manning's n | 0.400 |
| Slope | 0.013 ft/ft |
| 2 Year 24 Hour Depth | 1.9 in |
| Average Velocity | 0.06 ft/s |
| Segment Time of Concentration | 1.243 hours |

Segment #2: TR-55 Shallow Concentrated Flow

| | |
|-------------------------------|-------------|
| Hydraulic Length | 377.00 ft |
| Is Paved? | False |
| Slope | 0.004 ft/ft |
| Average Velocity | 1.02 ft/s |
| Segment Time of Concentration | 0.103 hours |

Time of Concentration (Composite)

| | |
|-----------------------------------|-------------|
| Time of Concentration (Composite) | 1.346 hours |
|-----------------------------------|-------------|

Pond pack 21214

Subsection: Time of Concentration Calculations
Label: BASIN B EXISTING

Return Event: 100 years
Storm Event: 100 YEAR 24 HR

==== SCS Channel Flow

$$R = Q_a / W_p$$
$$V = (1.49 * (R^{2/3}) * (S_f^{*-0.5})) / n$$

$$T_c = (L_f / V) / 3600$$

Where:

- R= Hydraulic radius
- A_q= Flow area, square feet
- W_p= Wetted perimeter, feet
- V= Velocity, ft/sec
- S_f= Slope, ft/ft
- n= Manning's n
- T_c= Time of concentration, hours
- L_f= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Unpaved surface:

$$V = 16.1345 * (S_f^{*0.5})$$

Paved Surface:

$$V = 20.3282 * (S_f^{*0.5})$$

$$T_c = (L_f / V) / 3600$$

Where:

- V= Velocity, ft/sec
- S_f= Slope, ft/ft
- T_c= Time of concentration, hours
- L_f= Flow length, feet

Pond pack 21214

Subsection: Runoff CN-Area
Label: BASIN A PROPOSED

Return Event: 2 years
Storm Event: 2 YEAR 24 HR

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|---|--------|-------------------------|-------|--------|-------------|
| Herbaceous - poor - Soil B | 80.000 | 294,204.000 | 0.0 | 0.0 | 80.000 |
| Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil B | 98.000 | 13,879.000 | 0.0 | 0.0 | 98.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 308,083.000 | (N/A) | (N/A) | 80.811 |

Pond pack 21214

Subsection: Runoff CN-Area
 Label: BASIN A EXISTING

Return Event: 10 years
 Storm Event: 10 YEAR 24 HR

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|-----------------------------------|--------|----------------------------|----------|-----------|-------------|
| Herbaceous - poor - Soil B | 80.000 | 220,818.000 | 0.0 | 0.0 | 80.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 220,818.000 | (N/A) | (N/A) | 80.000 |

Pond pack 21214

Subsection: Runoff CN-Area
 Label: BASIN A PROPOSED

Return Event: 100 years
 Storm Event: 100 YEAR 24 HR

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|---|--------|----------------------------|----------|-----------|-------------|
| Herbaceous - poor - Soil B | 80.000 | 294,204.000 | 0.0 | 0.0 | 80.000 |
| Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil B | 98.000 | 13,879.000 | 0.0 | 0.0 | 98.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 308,083.000 | (N/A) | (N/A) | 80.811 |

Pond pack 21214

Subsection: Runoff CN-Area
Label: BASIN A EXISTING

Return Event: 100 years
Storm Event: 100 YEAR 24 HR

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|-----------------------------------|--------|----------------------------|----------|-----------|-------------|
| Herbaceous - poor - Soil B | 80.000 | 220,818.000 | 0.0 | 0.0 | 80.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 220,818.000 | (N/A) | (N/A) | 80.000 |

Pond pack 21214

Subsection: Runoff CN-Area
Label: BASIN A PROPOSED

Return Event: 10 years
Storm Event: 10 YEAR 24 HR

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|---|--------|-------------------------|-------|--------|-------------|
| Herbaceous - poor - Soil B | 80.000 | 294,204.000 | 0.0 | 0.0 | 80.000 |
| Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil B | 98.000 | 13,943.000 | 0.0 | 0.0 | 98.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 308,147.000 | (N/A) | (N/A) | 80.814 |

Pond pack 21214

Subsection: Runoff CN-Area
 Label: BASIN B PROPOSED

Return Event: 2 years
 Storm Event: 2 YEAR 24 HR

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|---|--------|----------------------------|----------|-----------|-------------|
| Herbaceous - poor - Soil B | 80.000 | 16,836.000 | 0.0 | 0.0 | 80.000 |
| Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil B | 98.000 | 1,181.000 | 0.0 | 0.0 | 98.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 18,017.000 | (N/A) | (N/A) | 81.180 |

Pond pack 21214

Subsection: Runoff CN-Area
Label: BASIN B EXISTING

Return Event: 10 years
Storm Event: 10 YEAR 24 HR

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|-----------------------------------|--------|-------------------------|-------|--------|-------------|
| Herbaceous - poor - Soil B | 80.000 | 90,085.000 | 0.0 | 0.0 | 80.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 90,085.000 | (N/A) | (N/A) | 80.000 |

Pond pack 21214

Subsection: Runoff CN-Area
Label: BASIN B PROPOSED

Return Event: 100 years
Storm Event: 100 YEAR 24 HR

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|---|--------|-------------------------|-------|--------|-------------|
| Herbaceous - poor - Soil B | 80.000 | 16,836.000 | 0.0 | 0.0 | 80.000 |
| Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil B | 98.000 | 1,181.000 | 0.0 | 0.0 | 98.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 18,017.000 | (N/A) | (N/A) | 81.180 |

Pond pack 21214

Subsection: Runoff CN-Area
Label: BASIN B EXISTING

Return Event: 100 years
Storm Event: 100 YEAR 24 HR

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|-----------------------------------|--------|----------------------------|----------|-----------|-------------|
| Herbaceous - poor - Soil B | 80.000 | 90,085.000 | 0.0 | 0.0 | 80.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 90,085.000 | (N/A) | (N/A) | 80.000 |

Pond pack 21214

Subsection: Runoff CN-Area
 Label: BASIN B PROPOSED

Return Event: 10 years
 Storm Event: 10 YEAR 24 HR

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|---|--------|----------------------------|----------|-----------|-------------|
| Herbaceous - poor - Soil B | 80.000 | 16,836.000 | 0.0 | 0.0 | 80.000 |
| Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil B | 98.000 | 1,174.000 | 0.0 | 0.0 | 98.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 18,010.000 | (N/A) | (N/A) | 81.173 |

Pond pack 21214

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 $\Rightarrow .1333T_c$) |
| 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 = 1in. runoff, A=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: $T_r = \text{ratio of } T_p$ |

Pond pack 21214

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

Impervious Area Runoff

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

Incremental Weighted Runoff

Column (9) $R(t) = (A_p/A_t) \times R_{ip}(t) + (A_i/A_t) \times R_{ii}(t)$
 $R(t) = (A_p/A_t) \times Col.(6) + (A_i/A_t) \times Col.(8)$

SCS Unit Hydrograph Method

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

Pond pack 21214

Subsection: Unit Hydrograph Summary
 Label: BASIN A PROPOSED

Return Event: 2 years
 Storm Event: 2 YEAR 24 HR

| | |
|--------------------------------------|-----------------------------|
| Storm Event | 2 YEAR 24 HR |
| Return Event | 2 years |
| Duration | 24.000 hours |
| Depth | 1.9 in |
| Time of Concentration (Composite) | 1.214 hours |
| Area (User Defined) | 308,147.000 ft ² |

| | |
|--|-------------------------|
| Computational Time Increment | 0.253 hours |
| Time to Peak (Computed) | 13.173 hours |
| Flow (Peak, Computed) | 1.14 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 13.200 hours |
| Flow (Peak Interpolated Output) | 1.13 ft ³ /s |

| | |
|---|-----------------------------|
| Drainage Area | |
| SCS CN (Composite) | 81.000 |
| Area (User Defined) | 308,147.000 ft ² |
| Maximum Retention (Pervious) | 2.3 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |

| | |
|---------------------------------------|----------------------------|
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 0.6 in |
| Runoff Volume (Pervious) | 14,235.115 ft ³ |

| | |
|--|----------------------------|
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 13,709.000 ft ³ |

| | |
|---------------------------------------|-------------|
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 1.214 hours |
| Computational Time Increment | 0.253 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Pond pack 21214

Subsection: Unit Hydrograph Summary

Label: BASIN A PROPOSED

Return Event: 2 years
Storm Event: 2 YEAR 24 HR

| SCS Unit Hydrograph Parameters | |
|--------------------------------|-------------------------|
| Unit peak, qp | 4.22 ft ³ /s |
| Unit peak time, Tp | 1.267 hours |
| Unit receding limb, Tr | 5.067 hours |
| Total unit time, Tb | 6.333 hours |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN A PROPOSED

Return Event: 2 years
 Storm Event: 2 YEAR 24 HR

| | |
|--------------------------------------|-----------------------------|
| Storm Event | 2 YEAR 24 HR |
| Return Event | 2 years |
| Duration | 24.000 hours |
| Depth | 1.9 in |
| Time of Concentration (Composite) | 1.214 hours |
| Area (User Defined) | 308,147.000 ft ² |

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 11.400 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11.650 | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 |
| 11.900 | 0.07 | 0.10 | 0.13 | 0.16 | 0.20 |
| 12.150 | 0.23 | 0.28 | 0.34 | 0.40 | 0.45 |
| 12.400 | 0.51 | 0.57 | 0.64 | 0.70 | 0.76 |
| 12.650 | 0.83 | 0.88 | 0.92 | 0.96 | 1.00 |
| 12.900 | 1.05 | 1.07 | 1.09 | 1.10 | 1.12 |
| 13.150 | 1.13 | 1.13 | 1.12 | 1.12 | 1.11 |
| 13.400 | 1.10 | 1.09 | 1.06 | 1.04 | 1.01 |
| 13.650 | 0.99 | 0.96 | 0.93 | 0.90 | 0.87 |
| 13.900 | 0.84 | 0.81 | 0.79 | 0.76 | 0.74 |
| 14.150 | 0.71 | 0.69 | 0.67 | 0.65 | 0.63 |
| 14.400 | 0.61 | 0.59 | 0.58 | 0.56 | 0.54 |
| 14.650 | 0.53 | 0.51 | 0.50 | 0.49 | 0.47 |
| 14.900 | 0.46 | 0.45 | 0.44 | 0.43 | 0.42 |
| 15.150 | 0.41 | 0.40 | 0.39 | 0.38 | 0.37 |
| 15.400 | 0.36 | 0.36 | 0.35 | 0.34 | 0.34 |
| 15.650 | 0.33 | 0.32 | 0.32 | 0.31 | 0.31 |
| 15.900 | 0.30 | 0.30 | 0.29 | 0.29 | 0.28 |
| 16.150 | 0.28 | 0.27 | 0.27 | 0.26 | 0.26 |
| 16.400 | 0.26 | 0.25 | 0.25 | 0.25 | 0.24 |
| 16.650 | 0.24 | 0.24 | 0.23 | 0.23 | 0.23 |
| 16.900 | 0.22 | 0.22 | 0.22 | 0.22 | 0.21 |
| 17.150 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 |
| 17.400 | 0.20 | 0.20 | 0.20 | 0.19 | 0.19 |
| 17.650 | 0.19 | 0.19 | 0.19 | 0.18 | 0.18 |
| 17.900 | 0.18 | 0.18 | 0.18 | 0.18 | 0.17 |
| 18.150 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 |
| 18.400 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 |
| 18.650 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 |
| 18.900 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 |
| 19.150 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| 19.400 | 0.15 | 0.15 | 0.14 | 0.14 | 0.14 |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN A PROPOSED

Return Event: 2 years
 Storm Event: 2 YEAR 24 HR

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 19.650 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| 19.900 | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 |
| 20.150 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| 20.400 | 0.13 | 0.13 | 0.13 | 0.13 | 0.12 |
| 20.650 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| 20.900 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| 21.150 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 |
| 21.400 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| 21.650 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| 21.900 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| 22.150 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| 22.400 | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 |
| 22.650 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 22.900 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 23.150 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 23.400 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 23.650 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 23.900 | 0.10 | 0.10 | 0.10 | (N/A) | (N/A) |

Pond pack 21214

Subsection: Unit Hydrograph Summary
 Label: BASIN A EXISTING

Return Event: 10 years
 Storm Event: 10 YEAR 24 HR

| | |
|--|-----------------------------|
| Storm Event | 10 YEAR 24 HR |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 2.9 in |
| Time of Concentration (Composite) | 1.214 hours |
| Area (User Defined) | 220,818.000 ft ² |
| <hr/> | |
| Computational Time Increment | 0.162 hours |
| Time to Peak (Computed) | 12.630 hours |
| Flow (Peak, Computed) | 2.60 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.650 hours |
| Flow (Peak Interpolated Output) | 2.59 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 80.000 |
| Area (User Defined) | 220,818.000 ft ² |
| Maximum Retention (Pervious) | 2.5 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 1.2 in |
| Runoff Volume (Pervious) | 21,359.706 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 20,934.000 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 1.214 hours |
| Computational Time Increment | 0.162 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Pond pack 21214

Subsection: Unit Hydrograph Summary
Label: BASIN A EXISTING

Return Event: 10 years
Storm Event: 10 YEAR 24 HR

| SCS Unit Hydrograph Parameters | |
|--------------------------------|-------------------------|
| Unit peak, qp | 4.73 ft ³ /s |
| Unit peak time, Tp | 0.810 hours |
| Unit receding limb, Tr | 3.238 hours |
| Total unit time, Tb | 4.048 hours |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN A EXISTING

Return Event: 10 years
 Storm Event: 10 YEAR 24 HR

| | |
|--------------------------------------|-----------------------------|
| Storm Event | 10 YEAR 24 HR |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 2.9 in |
| Time of Concentration (Composite) | 1.214 hours |
| Area (User Defined) | 220,818.000 ft ² |

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 10.200 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10.450 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 |
| 10.700 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 |
| 10.950 | 0.02 | 0.03 | 0.03 | 0.03 | 0.04 |
| 11.200 | 0.04 | 0.05 | 0.05 | 0.06 | 0.07 |
| 11.450 | 0.07 | 0.08 | 0.10 | 0.11 | 0.12 |
| 11.700 | 0.16 | 0.19 | 0.23 | 0.30 | 0.41 |
| 11.950 | 0.51 | 0.63 | 0.81 | 0.98 | 1.16 |
| 12.200 | 1.38 | 1.60 | 1.82 | 1.99 | 2.16 |
| 12.450 | 2.33 | 2.43 | 2.49 | 2.56 | 2.59 |
| 12.700 | 2.57 | 2.55 | 2.51 | 2.43 | 2.35 |
| 12.950 | 2.27 | 2.15 | 2.04 | 1.92 | 1.81 |
| 13.200 | 1.71 | 1.61 | 1.52 | 1.44 | 1.36 |
| 13.450 | 1.29 | 1.23 | 1.17 | 1.11 | 1.06 |
| 13.700 | 1.01 | 0.96 | 0.92 | 0.88 | 0.84 |
| 13.950 | 0.81 | 0.77 | 0.74 | 0.71 | 0.69 |
| 14.200 | 0.66 | 0.64 | 0.62 | 0.60 | 0.58 |
| 14.450 | 0.56 | 0.54 | 0.52 | 0.51 | 0.50 |
| 14.700 | 0.48 | 0.47 | 0.46 | 0.45 | 0.44 |
| 14.950 | 0.43 | 0.42 | 0.41 | 0.40 | 0.40 |
| 15.200 | 0.39 | 0.38 | 0.38 | 0.37 | 0.36 |
| 15.450 | 0.36 | 0.35 | 0.35 | 0.34 | 0.34 |
| 15.700 | 0.33 | 0.33 | 0.32 | 0.32 | 0.31 |
| 15.950 | 0.31 | 0.30 | 0.30 | 0.30 | 0.29 |
| 16.200 | 0.29 | 0.29 | 0.28 | 0.28 | 0.28 |
| 16.450 | 0.27 | 0.27 | 0.27 | 0.26 | 0.26 |
| 16.700 | 0.26 | 0.26 | 0.25 | 0.25 | 0.25 |
| 16.950 | 0.25 | 0.24 | 0.24 | 0.24 | 0.24 |
| 17.200 | 0.24 | 0.23 | 0.23 | 0.23 | 0.23 |
| 17.450 | 0.23 | 0.23 | 0.22 | 0.22 | 0.22 |
| 17.700 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 |
| 17.950 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| 18.200 | 0.21 | 0.21 | 0.20 | 0.20 | 0.20 |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN A EXISTING

Return Event: 10 years
 Storm Event: 10 YEAR 24 HR

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 18.450 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| 18.700 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 |
| 18.950 | 0.19 | 0.19 | 0.19 | 0.19 | 0.18 |
| 19.200 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 |
| 19.450 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 |
| 19.700 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 |
| 19.950 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 |
| 20.200 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 |
| 20.450 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| 20.700 | 0.15 | 0.15 | 0.14 | 0.14 | 0.14 |
| 20.950 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| 21.200 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| 21.450 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| 21.700 | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 |
| 21.950 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| 22.200 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| 22.450 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| 22.700 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| 22.950 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| 23.200 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| 23.450 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| 23.700 | 0.13 | 0.13 | 0.13 | 0.12 | 0.12 |
| 23.950 | 0.12 | 0.12 | (N/A) | (N/A) | (N/A) |

Pond pack 21214

Subsection: Unit Hydrograph Summary
 Label: BASIN A PROPOSED

Return Event: 100 years
 Storm Event: 100 YEAR 24 HR

| | |
|--|-----------------------------|
| Storm Event | 100 YEAR 24 HR |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 4.6 in |
| Time of Concentration (Composite) | 1.214 hours |
| Area (User Defined) | 308,147.000 ft ² |
| <hr/> | |
| Computational Time Increment | 0.253 hours |
| Time to Peak (Computed) | 13.173 hours |
| Flow (Peak, Computed) | 5.98 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 13.150 hours |
| Flow (Peak Interpolated Output) | 5.97 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 81.000 |
| Area (User Defined) | 308,147.000 ft ² |
| Maximum Retention (Pervious) | 2.3 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 2.6 in |
| Runoff Volume (Pervious) | 66,752.962 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 64,990.000 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 1.214 hours |
| Computational Time Increment | 0.253 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Pond pack 21214

Subsection: Unit Hydrograph Summary

Label: BASIN A PROPOSED

Return Event: 100 years

Storm Event: 100 YEAR 24 HR

SCS Unit Hydrograph Parameters

| | |
|------------------------|-------------------------|
| Unit peak, qp | 4.22 ft ³ /s |
| Unit peak time, Tp | 1.267 hours |
| Unit receding limb, Tr | 5.067 hours |
| Total unit time, Tb | 6.333 hours |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN A PROPOSED

Return Event: 100 years
 Storm Event: 100 YEAR 24 HR

| | |
|--------------------------------------|-----------------------------|
| Storm Event | 100 YEAR 24 HR |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 4.6 in |
| Time of Concentration (Composite) | 1.214 hours |
| Area (User Defined) | 308,147.000 ft ² |

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 7.750 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 8.250 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 8.500 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 |
| 8.750 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| 9.000 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 |
| 9.250 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 |
| 9.500 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 |
| 9.750 | 0.09 | 0.09 | 0.10 | 0.10 | 0.11 |
| 10.000 | 0.11 | 0.12 | 0.12 | 0.13 | 0.13 |
| 10.250 | 0.14 | 0.14 | 0.15 | 0.16 | 0.16 |
| 10.500 | 0.17 | 0.18 | 0.19 | 0.19 | 0.20 |
| 10.750 | 0.21 | 0.22 | 0.23 | 0.24 | 0.25 |
| 11.000 | 0.26 | 0.28 | 0.29 | 0.30 | 0.32 |
| 11.250 | 0.33 | 0.35 | 0.37 | 0.38 | 0.41 |
| 11.500 | 0.44 | 0.47 | 0.50 | 0.53 | 0.62 |
| 11.750 | 0.71 | 0.81 | 0.91 | 1.00 | 1.19 |
| 12.000 | 1.39 | 1.58 | 1.78 | 1.98 | 2.27 |
| 12.250 | 2.57 | 2.88 | 3.19 | 3.49 | 3.79 |
| 12.500 | 4.09 | 4.38 | 4.68 | 4.98 | 5.18 |
| 12.750 | 5.35 | 5.51 | 5.67 | 5.83 | 5.90 |
| 13.000 | 5.92 | 5.94 | 5.95 | 5.97 | 5.93 |
| 13.250 | 5.84 | 5.75 | 5.66 | 5.57 | 5.44 |
| 13.500 | 5.27 | 5.11 | 4.94 | 4.77 | 4.61 |
| 13.750 | 4.43 | 4.26 | 4.09 | 3.92 | 3.76 |
| 14.000 | 3.63 | 3.49 | 3.36 | 3.22 | 3.10 |
| 14.250 | 2.99 | 2.89 | 2.79 | 2.69 | 2.59 |
| 14.500 | 2.51 | 2.43 | 2.35 | 2.27 | 2.19 |
| 14.750 | 2.12 | 2.06 | 1.99 | 1.93 | 1.86 |
| 15.000 | 1.81 | 1.76 | 1.71 | 1.66 | 1.61 |
| 15.250 | 1.57 | 1.53 | 1.49 | 1.45 | 1.41 |
| 15.500 | 1.38 | 1.35 | 1.32 | 1.29 | 1.26 |
| 15.750 | 1.23 | 1.21 | 1.18 | 1.16 | 1.13 |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN A PROPOSED

Return Event: 100 years
 Storm Event: 100 YEAR 24 HR

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 16.000 | 1.11 | 1.09 | 1.07 | 1.05 | 1.03 |
| 16.250 | 1.01 | 0.99 | 0.97 | 0.96 | 0.94 |
| 16.500 | 0.92 | 0.91 | 0.89 | 0.88 | 0.87 |
| 16.750 | 0.85 | 0.84 | 0.83 | 0.82 | 0.80 |
| 17.000 | 0.79 | 0.78 | 0.77 | 0.76 | 0.75 |
| 17.250 | 0.74 | 0.73 | 0.72 | 0.72 | 0.71 |
| 17.500 | 0.70 | 0.69 | 0.68 | 0.67 | 0.67 |
| 17.750 | 0.66 | 0.65 | 0.65 | 0.64 | 0.63 |
| 18.000 | 0.63 | 0.62 | 0.61 | 0.61 | 0.60 |
| 18.250 | 0.60 | 0.59 | 0.59 | 0.59 | 0.58 |
| 18.500 | 0.58 | 0.57 | 0.57 | 0.56 | 0.56 |
| 18.750 | 0.56 | 0.55 | 0.55 | 0.54 | 0.54 |
| 19.000 | 0.54 | 0.53 | 0.53 | 0.53 | 0.52 |
| 19.250 | 0.52 | 0.52 | 0.51 | 0.51 | 0.50 |
| 19.500 | 0.50 | 0.50 | 0.49 | 0.49 | 0.49 |
| 19.750 | 0.48 | 0.48 | 0.48 | 0.47 | 0.47 |
| 20.000 | 0.47 | 0.46 | 0.46 | 0.46 | 0.45 |
| 20.250 | 0.45 | 0.45 | 0.44 | 0.44 | 0.44 |
| 20.500 | 0.43 | 0.43 | 0.43 | 0.42 | 0.42 |
| 20.750 | 0.42 | 0.41 | 0.41 | 0.41 | 0.41 |
| 21.000 | 0.40 | 0.40 | 0.40 | 0.40 | 0.39 |
| 21.250 | 0.39 | 0.39 | 0.39 | 0.38 | 0.38 |
| 21.500 | 0.38 | 0.38 | 0.38 | 0.38 | 0.37 |
| 21.750 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 |
| 22.000 | 0.37 | 0.36 | 0.36 | 0.36 | 0.36 |
| 22.250 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 |
| 22.500 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 |
| 22.750 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 |
| 23.000 | 0.35 | 0.34 | 0.34 | 0.34 | 0.34 |
| 23.250 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 |
| 23.500 | 0.34 | 0.34 | 0.34 | 0.34 | 0.33 |
| 23.750 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| 24.000 | 0.33 | (N/A) | (N/A) | (N/A) | (N/A) |

Pond pack 21214

Subsection: Unit Hydrograph Summary
 Label: BASIN A EXISTING

Return Event: 100 years
 Storm Event: 100 YEAR 24 HR

| | |
|--|-----------------------------|
| Storm Event | 100 YEAR 24 HR |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 4.6 in |
| Time of Concentration (Composite) | 1.214 hours |
| Area (User Defined) | 220,818.000 ft ² |
| <hr/> | |
| Computational Time Increment | 0.162 hours |
| Time to Peak (Computed) | 12.630 hours |
| Flow (Peak, Computed) | 5.86 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.650 hours |
| Flow (Peak Interpolated Output) | 5.83 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 80.000 |
| Area (User Defined) | 220,818.000 ft ² |
| Maximum Retention (Pervious) | 2.5 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 2.5 in |
| Runoff Volume (Pervious) | 46,238.975 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 45,458.000 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 1.214 hours |
| Computational Time Increment | 0.162 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Pond pack 21214

Subsection: Unit Hydrograph Summary

Label: BASIN A EXISTING

Return Event: 100 years

Storm Event: 100 YEAR 24 HR

SCS Unit Hydrograph Parameters

| | |
|------------------------|-------------------------|
| Unit peak, qp | 4.73 ft ³ /s |
| Unit peak time, Tp | 0.810 hours |
| Unit receding limb, Tr | 3.238 hours |
| Total unit time, Tb | 4.048 hours |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN A EXISTING

Return Event: 100 years
 Storm Event: 100 YEAR 24 HR

| | |
|--------------------------------------|-----------------------------|
| Storm Event | 100 YEAR 24 HR |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 4.6 in |
| Time of Concentration (Composite) | 1.214 hours |
| Area (User Defined) | 220,818.000 ft ² |

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 8.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8.250 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 |
| 8.500 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 8.750 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 |
| 9.000 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 |
| 9.250 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 |
| 9.500 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 |
| 9.750 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 |
| 10.000 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 |
| 10.250 | 0.12 | 0.12 | 0.13 | 0.14 | 0.14 |
| 10.500 | 0.15 | 0.16 | 0.16 | 0.17 | 0.18 |
| 10.750 | 0.19 | 0.20 | 0.21 | 0.22 | 0.23 |
| 11.000 | 0.24 | 0.25 | 0.27 | 0.28 | 0.29 |
| 11.250 | 0.31 | 0.33 | 0.35 | 0.37 | 0.39 |
| 11.500 | 0.41 | 0.45 | 0.49 | 0.52 | 0.61 |
| 11.750 | 0.71 | 0.80 | 0.98 | 1.22 | 1.46 |
| 12.000 | 1.76 | 2.15 | 2.54 | 2.94 | 3.41 |
| 12.250 | 3.89 | 4.36 | 4.71 | 5.05 | 5.39 |
| 12.500 | 5.58 | 5.69 | 5.80 | 5.83 | 5.75 |
| 12.750 | 5.67 | 5.56 | 5.36 | 5.15 | 4.94 |
| 13.000 | 4.67 | 4.40 | 4.13 | 3.88 | 3.65 |
| 13.250 | 3.42 | 3.22 | 3.04 | 2.87 | 2.70 |
| 13.500 | 2.57 | 2.43 | 2.30 | 2.19 | 2.08 |
| 13.750 | 1.97 | 1.88 | 1.79 | 1.71 | 1.63 |
| 14.000 | 1.57 | 1.50 | 1.43 | 1.38 | 1.32 |
| 14.250 | 1.27 | 1.23 | 1.18 | 1.14 | 1.10 |
| 14.500 | 1.07 | 1.03 | 1.00 | 0.97 | 0.94 |
| 14.750 | 0.92 | 0.89 | 0.87 | 0.85 | 0.83 |
| 15.000 | 0.81 | 0.79 | 0.78 | 0.76 | 0.75 |
| 15.250 | 0.73 | 0.72 | 0.71 | 0.70 | 0.68 |
| 15.500 | 0.67 | 0.66 | 0.65 | 0.64 | 0.63 |
| 15.750 | 0.62 | 0.61 | 0.60 | 0.59 | 0.58 |
| 16.000 | 0.58 | 0.57 | 0.56 | 0.55 | 0.55 |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN A EXISTING

Return Event: 100 years
 Storm Event: 100 YEAR 24 HR

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 | 0.54 | 0.53 | 0.53 | 0.52 | 0.51 |
| 16.500 | 0.51 | 0.50 | 0.50 | 0.49 | 0.49 |
| 16.750 | 0.48 | 0.48 | 0.47 | 0.47 | 0.46 |
| 17.000 | 0.46 | 0.45 | 0.45 | 0.45 | 0.44 |
| 17.250 | 0.44 | 0.44 | 0.43 | 0.43 | 0.43 |
| 17.500 | 0.42 | 0.42 | 0.42 | 0.42 | 0.41 |
| 17.750 | 0.41 | 0.41 | 0.41 | 0.40 | 0.40 |
| 18.000 | 0.40 | 0.40 | 0.39 | 0.39 | 0.39 |
| 18.250 | 0.39 | 0.38 | 0.38 | 0.38 | 0.38 |
| 18.500 | 0.37 | 0.37 | 0.37 | 0.37 | 0.36 |
| 18.750 | 0.36 | 0.36 | 0.36 | 0.35 | 0.35 |
| 19.000 | 0.35 | 0.35 | 0.34 | 0.34 | 0.34 |
| 19.250 | 0.34 | 0.34 | 0.33 | 0.33 | 0.33 |
| 19.500 | 0.33 | 0.32 | 0.32 | 0.32 | 0.32 |
| 19.750 | 0.31 | 0.31 | 0.31 | 0.31 | 0.30 |
| 20.000 | 0.30 | 0.30 | 0.30 | 0.30 | 0.29 |
| 20.250 | 0.29 | 0.29 | 0.29 | 0.28 | 0.28 |
| 20.500 | 0.28 | 0.28 | 0.28 | 0.27 | 0.27 |
| 20.750 | 0.27 | 0.27 | 0.27 | 0.27 | 0.26 |
| 21.000 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 |
| 21.250 | 0.26 | 0.26 | 0.26 | 0.26 | 0.25 |
| 21.500 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| 21.750 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| 22.000 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| 22.250 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| 22.500 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| 22.750 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| 23.000 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| 23.250 | 0.24 | 0.23 | 0.23 | 0.23 | 0.23 |
| 23.500 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 |
| 23.750 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 |
| 24.000 | 0.23 | (N/A) | (N/A) | (N/A) | (N/A) |

Pond pack 21214

Subsection: Unit Hydrograph Summary
 Label: BASIN A PROPOSED

Return Event: 10 years
 Storm Event: 10 YEAR 24 HR

| | |
|--------------------------------------|-----------------------------|
| Storm Event | 10 YEAR 24 HR |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 2.9 in |
| Time of Concentration (Composite) | 1.214 hours |
| Area (User Defined) | 308,147.000 ft ² |

| | |
|--|-------------------------|
| Computational Time Increment | 0.162 hours |
| Time to Peak (Computed) | 12.626 hours |
| Flow (Peak, Computed) | 3.85 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.650 hours |
| Flow (Peak Interpolated Output) | 3.84 ft ³ /s |

| | |
|---|-----------------------------|
| Drainage Area | |
| SCS CN (Composite) | 81.000 |
| Area (User Defined) | 308,147.000 ft ² |
| Maximum Retention (Pervious) | 2.3 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |

| | |
|---------------------------------------|----------------------------|
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 1.2 in |
| Runoff Volume (Pervious) | 31,378.957 ft ³ |

| | |
|--|----------------------------|
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 30,771.000 ft ³ |

| | |
|---------------------------------------|-------------|
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 1.214 hours |
| Computational Time Increment | 0.162 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Pond pack 21214

Subsection: Unit Hydrograph Summary

Label: BASIN A PROPOSED

Return Event: 10 years

Storm Event: 10 YEAR 24 HR

SCS Unit Hydrograph Parameters

| | |
|------------------------|-------------------------|
| Unit peak, qp | 6.60 ft ³ /s |
| Unit peak time, Tp | 0.809 hours |
| Unit receding limb, Tr | 3.237 hours |
| Total unit time, Tb | 4.047 hours |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN A PROPOSED

Return Event: 10 years
 Storm Event: 10 YEAR 24 HR

| | |
|--------------------------------------|-----------------------------|
| Storm Event | 10 YEAR 24 HR |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 2.9 in |
| Time of Concentration (Composite) | 1.214 hours |
| Area (User Defined) | 308,147.000 ft ² |

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 9.900 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10.150 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 |
| 10.400 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 |
| 10.650 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 |
| 10.900 | 0.05 | 0.05 | 0.06 | 0.06 | 0.07 |
| 11.150 | 0.08 | 0.08 | 0.09 | 0.10 | 0.11 |
| 11.400 | 0.12 | 0.13 | 0.15 | 0.17 | 0.19 |
| 11.650 | 0.21 | 0.26 | 0.32 | 0.37 | 0.49 |
| 11.900 | 0.64 | 0.78 | 0.98 | 1.23 | 1.49 |
| 12.150 | 1.76 | 2.08 | 2.40 | 2.72 | 2.98 |
| 12.400 | 3.22 | 3.47 | 3.61 | 3.71 | 3.80 |
| 12.650 | 3.84 | 3.80 | 3.77 | 3.72 | 3.59 |
| 12.900 | 3.47 | 3.35 | 3.17 | 3.00 | 2.83 |
| 13.150 | 2.67 | 2.52 | 2.36 | 2.23 | 2.11 |
| 13.400 | 2.00 | 1.89 | 1.80 | 1.71 | 1.62 |
| 13.650 | 1.55 | 1.47 | 1.40 | 1.34 | 1.28 |
| 13.900 | 1.22 | 1.17 | 1.13 | 1.08 | 1.04 |
| 14.150 | 1.00 | 0.96 | 0.92 | 0.89 | 0.86 |
| 14.400 | 0.83 | 0.81 | 0.78 | 0.76 | 0.74 |
| 14.650 | 0.72 | 0.70 | 0.68 | 0.66 | 0.65 |
| 14.900 | 0.63 | 0.62 | 0.61 | 0.59 | 0.58 |
| 15.150 | 0.57 | 0.56 | 0.55 | 0.54 | 0.53 |
| 15.400 | 0.52 | 0.52 | 0.51 | 0.50 | 0.49 |
| 15.650 | 0.48 | 0.48 | 0.47 | 0.46 | 0.45 |
| 15.900 | 0.45 | 0.44 | 0.44 | 0.43 | 0.43 |
| 16.150 | 0.42 | 0.42 | 0.41 | 0.41 | 0.40 |
| 16.400 | 0.40 | 0.39 | 0.39 | 0.38 | 0.38 |
| 16.650 | 0.37 | 0.37 | 0.37 | 0.36 | 0.36 |
| 16.900 | 0.36 | 0.35 | 0.35 | 0.35 | 0.34 |
| 17.150 | 0.34 | 0.34 | 0.34 | 0.33 | 0.33 |
| 17.400 | 0.33 | 0.33 | 0.33 | 0.32 | 0.32 |
| 17.650 | 0.32 | 0.32 | 0.32 | 0.31 | 0.31 |
| 17.900 | 0.31 | 0.31 | 0.31 | 0.30 | 0.30 |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN A PROPOSED

Return Event: 10 years
 Storm Event: 10 YEAR 24 HR

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) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 18.150 | 0.30 | 0.30 | 0.30 | 0.29 | 0.29 |
| 18.400 | 0.29 | 0.29 | 0.29 | 0.29 | 0.28 |
| 18.650 | 0.28 | 0.28 | 0.28 | 0.28 | 0.27 |
| 18.900 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 |
| 19.150 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 |
| 19.400 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| 19.650 | 0.25 | 0.24 | 0.24 | 0.24 | 0.24 |
| 19.900 | 0.24 | 0.24 | 0.23 | 0.23 | 0.23 |
| 20.150 | 0.23 | 0.23 | 0.22 | 0.22 | 0.22 |
| 20.400 | 0.22 | 0.22 | 0.22 | 0.21 | 0.21 |
| 20.650 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| 20.900 | 0.21 | 0.20 | 0.20 | 0.20 | 0.20 |
| 21.150 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| 21.400 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| 21.650 | 0.20 | 0.19 | 0.19 | 0.19 | 0.19 |
| 21.900 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 |
| 22.150 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 |
| 22.400 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 |
| 22.650 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 |
| 22.900 | 0.19 | 0.19 | 0.18 | 0.18 | 0.18 |
| 23.150 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 |
| 23.400 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 |
| 23.650 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 |
| 23.900 | 0.18 | 0.18 | 0.18 | (N/A) | (N/A) |

Pond pack 21214

Subsection: Unit Hydrograph Summary
 Label: BASIN B PROPOSED

Return Event: 2 years
 Storm Event: 2 YEAR 24 HR

| | |
|--|----------------------------|
| Storm Event | 2 YEAR 24 HR |
| Return Event | 2 years |
| Duration | 24.000 hours |
| Depth | 1.9 in |
| Time of Concentration (Composite) | 1.346 hours |
| Area (User Defined) | 18,010.000 ft ² |
| <hr/> | |
| Computational Time Increment | 0.179 hours |
| Time to Peak (Computed) | 12.742 hours |
| Flow (Peak, Computed) | 0.09 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.750 hours |
| Flow (Peak Interpolated Output) | 0.09 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 81.000 |
| Area (User Defined) | 18,010.000 ft ² |
| Maximum Retention (Pervious) | 2.3 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 0.6 in |
| Runoff Volume (Pervious) | 832.483 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 811.000 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 1.346 hours |
| Computational Time Increment | 0.179 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Pond pack 21214

Subsection: Unit Hydrograph Summary

Label: BASIN B PROPOSED

Return Event: 2 years

Storm Event: 2 YEAR 24 HR

SCS Unit Hydrograph Parameters

| | |
|------------------------|-------------------------|
| Unit peak, qp | 0.35 ft ³ /s |
| Unit peak time, Tp | 0.897 hours |
| Unit receding limb, Tr | 3.589 hours |
| Total unit time, Tb | 4.487 hours |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN B PROPOSED

Return Event: 2 years
 Storm Event: 2 YEAR 24 HR

| | |
|--------------------------------------|----------------------------|
| Storm Event | 2 YEAR 24 HR |
| Return Event | 2 years |
| Duration | 24.000 hours |
| Depth | 1.9 in |
| Time of Concentration (Composite) | 1.346 hours |
| Area (User Defined) | 18,010.000 ft ² |

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 11.650 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11.900 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 |
| 12.150 | 0.03 | 0.03 | 0.04 | 0.05 | 0.06 |
| 12.400 | 0.06 | 0.07 | 0.07 | 0.08 | 0.08 |
| 12.650 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 |
| 12.900 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 |
| 13.150 | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 |
| 13.400 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 |
| 13.650 | 0.05 | 0.04 | 0.04 | 0.04 | 0.04 |
| 13.900 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 |
| 14.150 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 14.400 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 |
| 14.650 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 14.900 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 15.150 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 15.400 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 15.650 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 |
| 15.900 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 16.150 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 16.400 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 16.650 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 16.900 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 17.150 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 17.400 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 17.650 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 17.900 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 18.150 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 18.400 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 18.650 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 18.900 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 19.150 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 19.400 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 19.650 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN B PROPOSED

Return Event: 2 years
 Storm Event: 2 YEAR 24 HR

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 19.900 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 20.150 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 20.400 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 20.650 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 20.900 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 21.150 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 21.400 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 21.650 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 21.900 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 22.150 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 22.400 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 22.650 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 22.900 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 23.150 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 23.400 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 23.650 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 23.900 | 0.01 | 0.01 | 0.01 | (N/A) | (N/A) |

Pond pack 21214

Subsection: Unit Hydrograph Summary
 Label: BASIN B EXISTING

Return Event: 10 years
 Storm Event: 10 YEAR 24 HR

| | |
|--------------------------------------|----------------------------|
| Storm Event | 10 YEAR 24 HR |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 2.9 in |
| Time of Concentration (Composite) | 1.346 hours |
| Area (User Defined) | 90,085.000 ft ² |

| | |
|--|-------------------------|
| Computational Time Increment | 0.179 hours |
| Time to Peak (Computed) | 12.740 hours |
| Flow (Peak, Computed) | 0.98 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.750 hours |
| Flow (Peak Interpolated Output) | 0.98 ft ³ /s |

| | |
|---|----------------------------|
| Drainage Area | |
| SCS CN (Composite) | 80.000 |
| Area (User Defined) | 90,085.000 ft ² |
| Maximum Retention (Pervious) | 2.5 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |

| | |
|---------------------------------------|---------------------------|
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 1.2 in |
| Runoff Volume (Pervious) | 8,713.914 ft ³ |

| | |
|--|---------------------------|
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 8,521.000 ft ³ |

| | |
|---------------------------------------|-------------|
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 1.346 hours |
| Computational Time Increment | 0.179 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Pond pack 21214

Subsection: Unit Hydrograph Summary
Label: BASIN B EXISTING

Return Event: 10 years
Storm Event: 10 YEAR 24 HR

SCS Unit Hydrograph Parameters

| | |
|------------------------|-------------------------|
| Unit peak, qp | 1.74 ft ³ /s |
| Unit peak time, Tp | 0.897 hours |
| Unit receding limb, Tr | 3.589 hours |
| Total unit time, Tb | 4.486 hours |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN B EXISTING

Return Event: 10 years
 Storm Event: 10 YEAR 24 HR

| | |
|--------------------------------------|----------------------------|
| Storm Event | 10 YEAR 24 HR |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 2.9 in |
| Time of Concentration (Composite) | 1.346 hours |
| Area (User Defined) | 90,085.000 ft ² |

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 10.400 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10.650 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 10.900 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 11.150 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 |
| 11.400 | 0.02 | 0.03 | 0.03 | 0.03 | 0.04 |
| 11.650 | 0.04 | 0.06 | 0.07 | 0.09 | 0.10 |
| 11.900 | 0.14 | 0.18 | 0.22 | 0.27 | 0.33 |
| 12.150 | 0.40 | 0.46 | 0.53 | 0.61 | 0.68 |
| 12.400 | 0.75 | 0.80 | 0.86 | 0.91 | 0.94 |
| 12.650 | 0.95 | 0.97 | 0.98 | 0.97 | 0.96 |
| 12.900 | 0.95 | 0.93 | 0.89 | 0.86 | 0.83 |
| 13.150 | 0.79 | 0.75 | 0.71 | 0.68 | 0.64 |
| 13.400 | 0.61 | 0.58 | 0.55 | 0.52 | 0.50 |
| 13.650 | 0.47 | 0.45 | 0.44 | 0.42 | 0.40 |
| 13.900 | 0.38 | 0.37 | 0.35 | 0.34 | 0.32 |
| 14.150 | 0.31 | 0.30 | 0.29 | 0.28 | 0.27 |
| 14.400 | 0.26 | 0.25 | 0.24 | 0.23 | 0.23 |
| 14.650 | 0.22 | 0.21 | 0.21 | 0.20 | 0.20 |
| 14.900 | 0.19 | 0.19 | 0.18 | 0.18 | 0.18 |
| 15.150 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 |
| 15.400 | 0.16 | 0.15 | 0.15 | 0.15 | 0.15 |
| 15.650 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| 15.900 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| 16.150 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| 16.400 | 0.12 | 0.11 | 0.11 | 0.11 | 0.11 |
| 16.650 | 0.11 | 0.11 | 0.11 | 0.11 | 0.10 |
| 16.900 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 17.150 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 17.400 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 |
| 17.650 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| 17.900 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| 18.150 | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 |
| 18.400 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN B EXISTING

Return Event: 10 years
 Storm Event: 10 YEAR 24 HR

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 18.650 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| 18.900 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| 19.150 | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 |
| 19.400 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| 19.650 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| 19.900 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| 20.150 | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 |
| 20.400 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| 20.650 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| 20.900 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| 21.150 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| 21.400 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| 21.650 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| 21.900 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 |
| 22.150 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 22.400 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 22.650 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 22.900 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 23.150 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 23.400 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 23.650 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 23.900 | 0.05 | 0.05 | 0.05 | (N/A) | (N/A) |

Pond pack 21214

Subsection: Unit Hydrograph Summary
 Label: BASIN B PROPOSED

Return Event: 100 years
 Storm Event: 100 YEAR 24 HR

| | |
|--|----------------------------|
| Storm Event | 100 YEAR 24 HR |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 4.6 in |
| Time of Concentration (Composite) | 1.346 hours |
| Area (User Defined) | 18,010.000 ft ² |
| <hr/> | |
| Computational Time Increment | 0.179 hours |
| Time to Peak (Computed) | 12.742 hours |
| Flow (Peak, Computed) | 0.46 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.750 hours |
| Flow (Peak Interpolated Output) | 0.46 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 81.000 |
| Area (User Defined) | 18,010.000 ft ² |
| Maximum Retention (Pervious) | 2.3 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 2.6 in |
| Runoff Volume (Pervious) | 3,903.780 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 3,832.000 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 1.346 hours |
| Computational Time Increment | 0.179 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Pond pack 21214

Subsection: Unit Hydrograph Summary
Label: BASIN B PROPOSED

Return Event: 100 years
Storm Event: 100 YEAR 24 HR

| SCS Unit Hydrograph Parameters | |
|--------------------------------|-------------------------|
| Unit peak, qp | 0.35 ft ³ /s |
| Unit peak time, Tp | 0.897 hours |
| Unit receding limb, Tr | 3.589 hours |
| Total unit time, Tb | 4.487 hours |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN B PROPOSED

Return Event: 100 years
 Storm Event: 100 YEAR 24 HR

| | |
|--------------------------------------|----------------------------|
| Storm Event | 100 YEAR 24 HR |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 4.6 in |
| Time of Concentration (Composite) | 1.346 hours |
| Area (User Defined) | 18,010.000 ft ² |

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 8.400 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8.650 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8.900 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9.150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9.400 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 9.650 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 9.900 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 10.150 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 10.400 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 10.650 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 |
| 10.900 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 11.150 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 |
| 11.400 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 |
| 11.650 | 0.04 | 0.05 | 0.06 | 0.07 | 0.07 |
| 11.900 | 0.09 | 0.11 | 0.13 | 0.15 | 0.18 |
| 12.150 | 0.21 | 0.24 | 0.28 | 0.31 | 0.34 |
| 12.400 | 0.37 | 0.39 | 0.41 | 0.44 | 0.44 |
| 12.650 | 0.45 | 0.45 | 0.46 | 0.45 | 0.44 |
| 12.900 | 0.43 | 0.42 | 0.41 | 0.39 | 0.37 |
| 13.150 | 0.35 | 0.34 | 0.32 | 0.30 | 0.28 |
| 13.400 | 0.27 | 0.25 | 0.24 | 0.23 | 0.22 |
| 13.650 | 0.20 | 0.20 | 0.19 | 0.18 | 0.17 |
| 13.900 | 0.16 | 0.15 | 0.15 | 0.14 | 0.14 |
| 14.150 | 0.13 | 0.12 | 0.12 | 0.11 | 0.11 |
| 14.400 | 0.11 | 0.10 | 0.10 | 0.10 | 0.09 |
| 14.650 | 0.09 | 0.09 | 0.08 | 0.08 | 0.08 |
| 14.900 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 |
| 15.150 | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 |
| 15.400 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| 15.650 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 |
| 15.900 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 16.150 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 16.400 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN B PROPOSED

Return Event: 100 years
 Storm Event: 100 YEAR 24 HR

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 16.650 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 16.900 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 17.150 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 17.400 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 17.650 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 |
| 17.900 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 18.150 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 18.400 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 18.650 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 18.900 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 19.150 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 19.400 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 19.650 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 19.900 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 20.150 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 20.400 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 20.650 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 20.900 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 21.150 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 21.400 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 21.650 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 21.900 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 22.150 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 22.400 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 22.650 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 22.900 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 23.150 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 23.400 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 23.650 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 23.900 | 0.02 | 0.02 | 0.02 | (N/A) | (N/A) |

Pond pack 21214

Subsection: Unit Hydrograph Summary
 Label: BASIN B EXISTING

Return Event: 100 years
 Storm Event: 100 YEAR 24 HR

| | |
|--|----------------------------|
| Storm Event | 100 YEAR 24 HR |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 4.6 in |
| Time of Concentration (Composite) | 1.346 hours |
| Area (User Defined) | 90,085.000 ft ² |
| <hr/> | |
| Computational Time Increment | 0.179 hours |
| Time to Peak (Computed) | 12.740 hours |
| Flow (Peak, Computed) | 2.21 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.750 hours |
| Flow (Peak Interpolated Output) | 2.21 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 80.000 |
| Area (User Defined) | 90,085.000 ft ² |
| Maximum Retention (Pervious) | 2.5 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 2.5 in |
| Runoff Volume (Pervious) | 18,863.671 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 18,509.000 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 1.346 hours |
| Computational Time Increment | 0.179 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Pond pack 21214

Subsection: Unit Hydrograph Summary
Label: BASIN B EXISTING

Return Event: 100 years
Storm Event: 100 YEAR 24 HR

| SCS Unit Hydrograph Parameters | |
|--------------------------------|-------------------------|
| Unit peak, qp | 1.74 ft ³ /s |
| Unit peak time, Tp | 0.897 hours |
| Unit receding limb, Tr | 3.589 hours |
| Total unit time, Tb | 4.486 hours |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN B EXISTING

Return Event: 100 years
 Storm Event: 100 YEAR 24 HR

| | |
|--------------------------------------|----------------------------|
| Storm Event | 100 YEAR 24 HR |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 4.6 in |
| Time of Concentration (Composite) | 1.346 hours |
| Area (User Defined) | 90,085.000 ft ² |

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 | 0.00 | 0.00 |
| 8.450 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8.700 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 8.950 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 9.200 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 |
| 9.450 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 |
| 9.700 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 9.950 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 |
| 10.200 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 |
| 10.450 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 |
| 10.700 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 |
| 10.950 | 0.09 | 0.09 | 0.10 | 0.10 | 0.11 |
| 11.200 | 0.11 | 0.12 | 0.12 | 0.13 | 0.14 |
| 11.450 | 0.15 | 0.16 | 0.17 | 0.18 | 0.20 |
| 11.700 | 0.23 | 0.26 | 0.30 | 0.35 | 0.44 |
| 11.950 | 0.53 | 0.61 | 0.73 | 0.87 | 1.02 |
| 12.200 | 1.16 | 1.32 | 1.48 | 1.64 | 1.78 |
| 12.450 | 1.89 | 1.99 | 2.10 | 2.14 | 2.17 |
| 12.700 | 2.19 | 2.21 | 2.17 | 2.13 | 2.10 |
| 12.950 | 2.04 | 1.96 | 1.89 | 1.81 | 1.72 |
| 13.200 | 1.62 | 1.53 | 1.44 | 1.37 | 1.29 |
| 13.450 | 1.22 | 1.16 | 1.10 | 1.05 | 0.99 |
| 13.700 | 0.95 | 0.90 | 0.86 | 0.82 | 0.79 |
| 13.950 | 0.75 | 0.71 | 0.69 | 0.66 | 0.63 |
| 14.200 | 0.61 | 0.58 | 0.56 | 0.54 | 0.52 |
| 14.450 | 0.50 | 0.48 | 0.47 | 0.45 | 0.44 |
| 14.700 | 0.42 | 0.41 | 0.40 | 0.39 | 0.38 |
| 14.950 | 0.37 | 0.36 | 0.35 | 0.34 | 0.34 |
| 15.200 | 0.33 | 0.32 | 0.31 | 0.31 | 0.30 |
| 15.450 | 0.30 | 0.29 | 0.29 | 0.28 | 0.28 |
| 15.700 | 0.27 | 0.27 | 0.26 | 0.26 | 0.26 |
| 15.950 | 0.25 | 0.25 | 0.24 | 0.24 | 0.24 |
| 16.200 | 0.23 | 0.23 | 0.23 | 0.22 | 0.22 |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN B EXISTING

Return Event: 100 years
 Storm Event: 100 YEAR 24 HR

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 16.450 | 0.22 | 0.21 | 0.21 | 0.21 | 0.21 |
| 16.700 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| 16.950 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 |
| 17.200 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 |
| 17.450 | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 |
| 17.700 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 |
| 17.950 | 0.17 | 0.16 | 0.16 | 0.16 | 0.16 |
| 18.200 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 |
| 18.450 | 0.16 | 0.15 | 0.15 | 0.15 | 0.15 |
| 18.700 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| 18.950 | 0.15 | 0.14 | 0.14 | 0.14 | 0.14 |
| 19.200 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| 19.450 | 0.14 | 0.14 | 0.13 | 0.13 | 0.13 |
| 19.700 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| 19.950 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 |
| 20.200 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| 20.450 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 |
| 20.700 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| 20.950 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| 21.200 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| 21.450 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 21.700 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 21.950 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 22.200 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 22.450 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 22.700 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 22.950 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 23.200 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 23.450 | 0.10 | 0.10 | 0.10 | 0.09 | 0.09 |
| 23.700 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| 23.950 | 0.09 | 0.09 | (N/A) | (N/A) | (N/A) |

Pond pack 21214

Subsection: Unit Hydrograph Summary
 Label: BASIN B PROPOSED

Return Event: 10 years
 Storm Event: 10 YEAR 24 HR

| | |
|--------------------------------------|----------------------------|
| Storm Event | 10 YEAR 24 HR |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 2.9 in |
| Time of Concentration (Composite) | 1.346 hours |
| Area (User Defined) | 18,010.000 ft ² |

| | |
|--|-------------------------|
| Computational Time Increment | 0.179 hours |
| Time to Peak (Computed) | 12.742 hours |
| Flow (Peak, Computed) | 0.21 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.750 hours |
| Flow (Peak Interpolated Output) | 0.21 ft ³ /s |

| | |
|---|----------------------------|
| Drainage Area | |
| SCS CN (Composite) | 81.000 |
| Area (User Defined) | 18,010.000 ft ² |
| Maximum Retention (Pervious) | 2.3 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |

| | |
|---------------------------------------|---------------------------|
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 1.2 in |
| Runoff Volume (Pervious) | 1,833.977 ft ³ |

| | |
|--|---------------------------|
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 1,794.000 ft ³ |

| | |
|---------------------------------------|-------------|
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 1.346 hours |
| Computational Time Increment | 0.179 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Pond pack 21214

Subsection: Unit Hydrograph Summary

Label: BASIN B PROPOSED

Return Event: 10 years

Storm Event: 10 YEAR 24 HR

SCS Unit Hydrograph Parameters

| | |
|------------------------|-------------------------|
| Unit peak, qp | 0.35 ft ³ /s |
| Unit peak time, Tp | 0.897 hours |
| Unit receding limb, Tr | 3.589 hours |
| Total unit time, Tb | 4.487 hours |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN B PROPOSED

Return Event: 10 years
 Storm Event: 10 YEAR 24 HR

| | |
|--------------------------------------|----------------------------|
| Storm Event | 10 YEAR 24 HR |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 2.9 in |
| Time of Concentration (Composite) | 1.346 hours |
| Area (User Defined) | 18,010.000 ft ² |

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 10.550 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10.800 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11.050 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11.300 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 11.550 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 |
| 11.800 | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 |
| 12.050 | 0.06 | 0.07 | 0.09 | 0.10 | 0.12 |
| 12.300 | 0.13 | 0.15 | 0.16 | 0.17 | 0.18 |
| 12.550 | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 |
| 12.800 | 0.21 | 0.20 | 0.20 | 0.20 | 0.19 |
| 13.050 | 0.18 | 0.18 | 0.17 | 0.16 | 0.15 |
| 13.300 | 0.14 | 0.14 | 0.13 | 0.12 | 0.12 |
| 13.550 | 0.11 | 0.10 | 0.10 | 0.10 | 0.09 |
| 13.800 | 0.09 | 0.08 | 0.08 | 0.08 | 0.07 |
| 14.050 | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 |
| 14.300 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 |
| 14.550 | 0.05 | 0.05 | 0.05 | 0.04 | 0.04 |
| 14.800 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 15.050 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 |
| 15.300 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 15.550 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 15.800 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 16.050 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 |
| 16.300 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 16.550 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 16.800 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 17.050 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 17.300 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 17.550 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 17.800 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 18.050 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 18.300 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 18.550 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |

Pond pack 21214

Subsection: Unit Hydrograph (Hydrograph Table)
 Label: BASIN B PROPOSED

Return Event: 10 years
 Storm Event: 10 YEAR 24 HR

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) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 18.800 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 19.050 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 19.300 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 |
| 19.550 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 19.800 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 20.050 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 20.300 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 20.550 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 20.800 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 21.050 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 21.300 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 21.550 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 21.800 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 22.050 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 22.300 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 22.550 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 22.800 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 23.050 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 23.300 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 23.550 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 23.800 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |

Pond pack 21214

Subsection: Addition Summary

Label: OUTLET A

Return Event: 2 years

Storm Event: 2 YEAR 24 HR

Summary for Hydrograph Addition at 'OUTLET A'

| Upstream Link | Upstream Node |
|-----------------------------|------------------|
| <Catchment to Outflow Node> | BASIN A PROPOSED |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|------------------|---------------------------|----------------------|----------------------------------|
| Flow (From) | BASIN A PROPOSED | 13,709.018 | 13.200 | 1.13 |
| Flow (In) | OUTLET A | 13,709.018 | 13.200 | 1.13 |

Pond pack 21214

Subsection: Addition Summary

Label: OUTLET A

Return Event: 10 years

Storm Event: 10 YEAR 24 HR

Summary for Hydrograph Addition at 'OUTLET A'

| Upstream Link | Upstream Node |
|-----------------------------|------------------|
| <Catchment to Outflow Node> | BASIN A PROPOSED |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|------------------|---------------------------|----------------------|----------------------------------|
| Flow (From) | BASIN A PROPOSED | 30,770.848 | 12.650 | 3.84 |
| Flow (In) | OUTLET A | 30,770.848 | 12.650 | 3.84 |

Pond pack 21214

Subsection: Addition Summary
Label: OUTLET A

Return Event: 10 years
Storm Event: 10 YEAR 24 HR

Summary for Hydrograph Addition at 'OUTLET A'

| Upstream Link | Upstream Node |
|-----------------------------|------------------|
| <Catchment to Outflow Node> | BASIN A EXISTING |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|------------------|---------------------------|----------------------|----------------------------------|
| Flow (From) | BASIN A EXISTING | 20,934.408 | 12.650 | 2.59 |
| Flow (In) | OUTLET A | 20,934.408 | 12.650 | 2.59 |

Pond pack 21214

Subsection: Addition Summary
Label: OUTLET A

Return Event: 100 years
Storm Event: 100 YEAR 24 HR

Summary for Hydrograph Addition at 'OUTLET A'

| Upstream Link | Upstream Node |
|-----------------------------|------------------|
| <Catchment to Outflow Node> | BASIN A PROPOSED |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|------------------|---------------------------|----------------------|----------------------------------|
| Flow (From) | BASIN A PROPOSED | 64,990.212 | 13.150 | 5.97 |
| Flow (In) | OUTLET A | 64,990.212 | 13.150 | 5.97 |

Pond pack 21214

Subsection: Addition Summary
Label: OUTLET A

Return Event: 100 years
Storm Event: 100 YEAR 24 HR

Summary for Hydrograph Addition at 'OUTLET A'

| Upstream Link | Upstream Node |
|-----------------------------|------------------|
| <Catchment to Outflow Node> | BASIN A EXISTING |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|------------------|---------------------------|----------------------|----------------------------------|
| Flow (From) | BASIN A EXISTING | 45,457.665 | 12.650 | 5.83 |
| Flow (In) | OUTLET A | 45,457.665 | 12.650 | 5.83 |

Pond pack 21214

Subsection: Addition Summary
Label: OUTLET B

Return Event: 2 years
Storm Event: 2 YEAR 24 HR

Summary for Hydrograph Addition at 'OUTLET B'

| Upstream Link | Upstream Node |
|-----------------------------|------------------|
| <Catchment to Outflow Node> | BASIN B PROPOSED |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|------------------|---------------------------|----------------------|----------------------------------|
| Flow (From) | BASIN B PROPOSED | 810.945 | 12.750 | 0.09 |
| Flow (In) | OUTLET B | 810.945 | 12.750 | 0.09 |

Pond pack 21214

Subsection: Addition Summary
Label: OUTLET B

Return Event: 10 years
Storm Event: 10 YEAR 24 HR

Summary for Hydrograph Addition at 'OUTLET B'

| Upstream Link | Upstream Node |
|-----------------------------|------------------|
| <Catchment to Outflow Node> | BASIN B PROPOSED |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|------------------|---------------------------|----------------------|----------------------------------|
| Flow (From) | BASIN B PROPOSED | 1,794.364 | 12.750 | 0.21 |
| Flow (In) | OUTLET B | 1,794.364 | 12.750 | 0.21 |

Pond pack 21214

Subsection: Addition Summary
Label: OUTLET B

Return Event: 10 years
Storm Event: 10 YEAR 24 HR

Summary for Hydrograph Addition at 'OUTLET B'

| Upstream Link | Upstream Node |
|-----------------------------|------------------|
| <Catchment to Outflow Node> | BASIN B EXISTING |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|------------------|---------------------------|----------------------|----------------------------------|
| Flow (From) | BASIN B EXISTING | 8,520.889 | 12.750 | 0.98 |
| Flow (In) | OUTLET B | 8,520.889 | 12.750 | 0.98 |

Pond pack 21214

Subsection: Addition Summary
Label: OUTLET B

Return Event: 100 years
Storm Event: 100 YEAR 24 HR

Summary for Hydrograph Addition at 'OUTLET B'

| Upstream Link | Upstream Node |
|-----------------------------|------------------|
| <Catchment to Outflow Node> | BASIN B PROPOSED |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|------------------|---------------------------|----------------------|----------------------------------|
| Flow (From) | BASIN B PROPOSED | 3,831.771 | 12.750 | 0.46 |
| Flow (In) | OUTLET B | 3,831.771 | 12.750 | 0.46 |

Pond pack 21214

Subsection: Addition Summary
Label: OUTLET B

Return Event: 100 years
Storm Event: 100 YEAR 24 HR

Summary for Hydrograph Addition at 'OUTLET B'

| Upstream Link | Upstream Node |
|-----------------------------|------------------|
| <Catchment to Outflow Node> | BASIN B EXISTING |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|------------------|---------------------------|----------------------|----------------------------------|
| Flow (From) | BASIN B EXISTING | 18,508.923 | 12.750 | 2.21 |
| Flow (In) | OUTLET B | 18,508.923 | 12.750 | 2.21 |

Pond pack 21214

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