CITY OF ALBUQUERQUE

May 1, 2006

Mr. Ron Bohannan, P.E.
TIERRA WEST, LLC
8509 Jefferson Street NE
Albuquerque, NM 87113

Re: SAM'S CLUB @ RENAISSANCE
1421 Renaissance Blvd. NE
Approval of Permanent Certificate of Occupancy (C.O.)
Engineer's Stamp dated 01/25/2005 (F-16/D23)
Certification dated 04/27/2006

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Dear Ron,

Based upon the information provided in your submittal received 04/27/2006, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3982.

Sincerely,

Arlene V. Portillo

Arlene V. Portillo
Plan Checker, Planning Dept. - Hydrology
Development and Building Services

C: CO Clerk
File

DRAINAGE AND TRANSPORTATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Sam's Club # 4938 ZONE MAP/DRG. FILE #: F16/D23
DRB #: 1000045 EPC #: WORK ORDER: 5982.83

LEGAL DESCRIPTION: Tracts 3A4A and 3B2A Renaissance Center
CITY ADDRESS: 1421 Renaissance Blvd. NE

ENGINEERING FIRM:	Tierra West, LLC	CONTACT:	Sara Lavy
ADDRESS:	8509 Jefferson NE	PHONE:	(505) 858-3100
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87113
OWNER:	Wal-Mart Stores East, LLP	CONTACT:	
ADDRESS:	2001 SE 10th Street	PHONE:	501-273-4000
CITY, STATE:	Bentonville, AR	ZIP CODE:	72716
ARCHITECT:	Raymond Harris & Associates Architects	CONTACT:	Wing Cheng
ADDRESS:	211 N. record Street, Suite 222	PHONE:	214-749-0626
CITY, STATE:	Dallas, TX	ZIP CODE:	75202
SURVEYOR:	Precision Surveys	CONTACT:	Larry Medrano
ADDRESS:	8414-D Jefferson NE	PHONE:	505-856-5700
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87113
CONTRACTOR:	Jaynes Corporation	CONTACT:	Thomas Thomsen
ADDRESS:	P.O. Box 26841	PHONE:	345-8591
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87125

CHECK TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1st SUBMITTAL, ***REQUIRES TCL or equal***
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL GRADING & DRAINAGE PLAN
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- X ENGINEER'S CERTIFICATION (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEERS CERTIFICATION (TCL)
- ____ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ____ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

- ____ SIA / FINANACIAL GUARANTEE RELEASE
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D. APPROVAL
- ____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ FOUNDATION PERMIT APPROVAL
- ____ BUILDING PERMIT APPROVAL
- X CERTIFICATE OF OCCUPANCY (PERM.)
- ____ CERTIFICATE OF OCCUPANCY (TEMP.)
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ SO-19

RECEIVED
APR 27 2006
HYDROLOGY SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ____ YES
- ____ NO
- ____ COPY PROVIDED

DATE SUBMITTED: 4/27/2006 BY: Brad Frosch

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of sumbittal may be required based on the following:

1. **Conceptual Grading and Drainage Plans**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report**: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

CITY OF ALBUQUERQUE

February 27, 2006

Mr. Tyler Ashton, PE
TIERRA WEST, LLC
8509 Jefferson St. NE
Albuquerque, NM 87113

Re: SAM'S CLUB @ RENAISSANCE
1421 Renaissance Blvd. NE
Approval of 60-DayExtension to Temporary Certificate of Occupancy
Engineer's Stamp dated 01/25/2005 (F-16/D23)
Certification dated 01/30/2006

Dear Tyler,

Your request, via e-mail, for a 60-day Extension to 04/30/2006 to the Temporary Certificate of Occupancy (C.O.) has been granted by Hydrology.

Upon completion of noted exception(s) listed in the Drainage Certification, dated 01/30/2006, please resubmit an updated Certification for Permanent C.O.

If you have any questions, you can contact me at 924-3982

Sincerely,

Arlene V. Portillo

Arlene V. Portillo
Plan Checker, Planning Dept. - Hydrology
Development and Building Services

C: C.O. Clerk
File

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

Brad L. Bingham/PWD/CABQ
02/27/2006 08:08 AM

To Arlene V. Portillo/PWD/CABQ@COA
cc
bcc
Subject Re: Fw: Temp CO Extensions

yes, especially for the wal-mart
Arlene V. Portillo/PWD/CABQ

Arlene V. Portillo/PWD/CABQ
02/24/2006 04:18 PM

To Bbingham@cabq.gov
cc
Subject Fw: Temp CO Extensions

Hi Brad: It is okay to give them a 60-day Extension to their Temp-CO?

Arlene V. Portillo, Plan Checker
Planning Department, Hydrology Section
e-mail - aportillo@cabq.gov
Office Phone 505-924-3982; Fax 505-924-3864

----- Forwarded by Arlene V. Portillo/PWD/CABQ on 02/24/2006 04:17 PM -----

"Keli Krueger"
<kkrueger@tierrawestllc.com>

02/24/2006 02:09 PM

To <aportillo@cabq.gov>
cc "Brad Frosch" <bfrosch@tierrawestllc.com>, "Ron Bohannan" <rrb@tierrawestllc.com>, "Tyler Ashton" <tashton@tierrawestllc.com>
Subject RE: Temp CO Extensions

Good Afternoon Arlene

I would like a 60-day extension for the Sam's Club @ 1421 Renaissance Boulevard NE. The contractor has some punchlist items to finish up which include some asphalt repair in the parking lot, a drain at one corner of the building and installation of orifice plates.

I would also like a 60-day extension for the Wal-Mart Neighborhood Market @ 8511 Golf Course Rd. NW. The contractor has punchlist items to finish up there as well, including completion of their NMUI punchlist, finishing up a pylon wall and the lowering of the rooftop units, which is scheduled for next week.

If you have any questions or need anything else, please call me.
Thank you

Keli D. Krueger
Tierra West LLC
8509 Jefferson NE
Albuquerque, NM 87113
Phone - (505)858-3100
Fax - (505)858-1118
kkrueger@tierrawestllc.com

From: aportillo@cabq.gov [mailto:aportillo@cabq.gov]
Sent: Thursday, February 23, 2006 3:00 PM
To: Keli Krueger
Cc: BBingham@cabq.gov
Subject: Re: Temp CO Extensions

Hi Keli: It can be done via e-mail, but keep in mind Bob Williams, Section Head, Building Safety (C.O.) office only allows 1 extension of a Temp C.O.

Arlene V. Portillo, Plan Checker
Planning Department, Hydrology Section
e-mail - aportillo@cabq.gov
Office Phone 505-924-3982; Fax 505-924-3864

"Keli Krueger"
<kkrueger@tierrawestllc.com>

02/23/2006 02:06 PM

To <aportillo@cabq.gov>
cc "Brad Frosch" <bfrosch@tierrawestllc.com>, "Ron Bohannan" <rrb@tierrawestllc.com>
Subject Temp CO Extensions

Hi Arlene -

The Temp CO's for the Sam's Club @ Renaissance and the Wal-Mart Neighborhood Markets are going to expire next and we need to get extensions on both. Can I do it via email or should I bring a letter or

something down?

Thanks

Keli D. Krueger
Tierra West LLC
8509 Jefferson NE
Albuquerque, NM 87113
Phone - (505)858-3100
Fax - (505)858-1118
kkrueger@tierrawestllc.com

CITY OF ALBUQUERQUE

THREE HUNDRED YEARS 1706 • 2006
ALBUQUERQUE
Making History

January 31, 2006

Mr. Ron Bohannan, P.E.
TIERRA WEST, LLC
8509 Jefferson St. NE
Albuquerque, NM 87113

Re: SAM'S CLUB @ RENAISSANCE
1421 Renaissance Blvd. NE
Approval of Temporary Certificate of Occupancy (C.O.)
Engineer's Stamp dated 01/25/2005 (F-16/D023)
Certification dated 01/30/2006

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Dear Ron,

Based upon the information provided in your submittal received 01/30/2006, the above referenced certification is approved for release of 30-day Temporary Certificate of Occupancy by Hydrology.

Upon completion of the punch list indicated in your Drainage Certification, to include curb and gutter, concrete and asphalt paving, landscaping of the pond, pond soil cementing and slope paving, etc., please resubmit an updated certification for Permanent C.O..

If you have any questions, you can contact me at 924-3982.

Sincerely,

Arlene V. Portillo

Arlene V. Portillo
Plan Checker, Planning Dept. - Hydrology
Development and Building Services

C: CO Clerk
File

DRAINAGE AND TRANSPORTATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Sam's Club # 4938 - Renaissance Center
ZONE MAP/DRG. FILE #: F16/D23
DRB #: 1000045 EPC #:
WORK ORDER: 5982.83

LEGAL DESCRIPTION: Tracts 3A4A and 3B2A Renaissance Center
CITY ADDRESS: 1421 Renaissance Blvd. NE

ENGINEERING FIRM:	Tierra West, LLC	CONTACT:	Sara Lavy
ADDRESS:	8509 Jefferson NE	PHONE:	(505) 858-3100
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87113
OWNER:	Wal-Mart Stores East, LLP	CONTACT:	
ADDRESS:	2001 SE 10th Street	PHONE:	501-273-4000
CITY, STATE:	Bentonville, AR	ZIP CODE:	72716
ARCHITECT:	Raymond Harris & Associates Architects	CONTACT:	Wing Cheng
ADDRESS:	211 N. record Street, Suite 222	PHONE:	214-749-0626
CITY, STATE:	Dallas, TX	ZIP CODE:	75202
SURVEYOR:	Precision Surveys	CONTACT:	Larry Medrano
ADDRESS:	8414-D Jefferson NE	PHONE:	505-856-5700
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87113
CONTRACTOR:	Jaynes Corporation	CONTACT:	Thomas Thomsen
ADDRESS:	P.O. Box 26841	PHONE:	345-8591
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87125

CHECK TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1st SUBMITTAL, ***REQUIRES TCL or equal***
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL GRADING & DRAINAGE PLAN
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- X ENGINEER'S CERTIFICATION (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEERS CERTIFICATION (TCL)
- ____ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ____ OTHER

• c/G, concrete + asphalt paving + landscape pond. pond soil cemented; Slope paving.

CHECK TYPE OF APPROVAL SOUGHT:

- ____ SIA / FINANACIAL GUARANTEE RELEASE
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D. APPROVAL
- ____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ FOUNDATION PERMIT APPROVAL
- ____ BUILDING PERMIT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM.)
- X CERTIFICATE OF OCCUPANCY (TEMP.)
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ SO-19

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ____ YES
- ____ NO
- ____ COPY PROVIDED

RECEIVED
JAN 30 2006
HYDROLOGY SECTION

DATE SUBMITTED: 1-30-06 BY: Brad Frosch

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of sumbittal may be required based on the following:

1. **Conceptual Grading and Drainage Plans**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report**: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services Section

February 22, 2006

Ronald R. Bohannan, P.E.
8509 Jefferson NE
Albuquerque, NM 87113

Re: Certification Submittal for Final Building Certificate of Occupancy for
Sam's Club #4938 and Gas Station, [F-16 / D23]
1421 Renaissance Blvd NE
Engineer's Stamp Dated 02/17/06

Dear Mr. Bohannan:

The TCL / Letter of Certification submitted on February 21, 2006 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Sincerely,

Nilo E. Salgado-Fernandez, P.E.
Senior Traffic Engineer
Development and Building Services
Planning Department

c: Engineer
Hydrology file
CO Clerk

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

CITY OF ALBUQUERQUE

THREE HUNDRED YEARS 1706 • 2006
ALBUQUERQUE
Making History

Planning Department
Transportation Development Services Section

February 22, 2006

Ronald R. Bohannan, P.E.
8509 Jefferson NE
Albuquerque, NM 87113

Re: Certification Submittal for Final Building Certificate of Occupancy for Sam's Club Gas Station (#4938), [F-16 / D23]
1421 Renaissance Blvd NE
Engineer's Stamp Dated 02/17/06

Dear Mr. Bohannan:

The TCL / Letter of Certification submitted on February 21, 2006 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Sincerely,

Nilo E. Salgado-Fernandez, P.E.
Senior Traffic Engineer
Development and Building Services
Planning Department

c: Engineer
Hydrology file
CO Clerk

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Sam's Club # 4938 & Gas Station
ZONE MAP/DRG. FILE #: F16/D23
DRB #: 1000045 EPC #:
WORK ORDER: 5982.83

LEGAL DESCRIPTION: Tracts 3A4A and 3B2A Renaissance Center
CITY ADDRESS: 1421 Renaissance Blvd. NE

ENGINEERING FIRM:	Tierra West, LLC	CONTACT:	Sara Lavy
ADDRESS:	8509 Jefferson NE	PHONE:	(505) 858-3100
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87113
OWNER:	Wal-Mart Stores East, LLP	CONTACT:	
ADDRESS:	2001 SE 10th Street	PHONE:	501-273-4000
CITY, STATE:	Bentonville, AR	ZIP CODE:	72716
ARCHITECT:	Raymond Harris & Associates Architects	CONTACT:	Wing Cheng
ADDRESS:	211 N. record Street, Suite 222	PHONE:	214-749-0626
CITY, STATE:	Dallas, TX	ZIP CODE:	75202
SURVEYOR:	Precision Surveys	CONTACT:	Larry Medrano
ADDRESS:	8414-D Jefferson NE	PHONE:	505-856-5700
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87113
CONTRACTOR:	Jaynes Corporation	CONTACT:	Thomas Thomsen
ADDRESS:	P.O. Box 26841	PHONE:	345-8591
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87125

CHECK TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1st SUBMITTAL, ***REQUIRES TCL or equal***
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL GRADING & DRAINAGE PLAN
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEERS CERTIFICATION (TCL)
- X ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ____ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

- ____ SIA / FINANACIAL GUARANTEE RELEASE
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D. APPROVAL
- ____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ FOUNDATION PERMIT APPROVAL
- ____ BUILDING PERMIT APPROVAL
- X CERTIFICATE OF OCCUPANCY (PERM.)
- ____ CERTIFICATE OF OCCUPANCY (TEMP.)
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ SO-19

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ____ YES
- ____ NO
- ____ COPY PROVIDED

RECEIVED
FEB 21 2006
HYDROLOGY SECTION

DATE SUBMITTED: 2/17/2006 BY: Brad Frosch

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of sumbittal may be required based on the following:

1. **Conceptual Grading and Drainage Plans**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report**: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

TIERRA WEST, LLC

8509 Jefferson NE
Albuquerque, NM 87113

(505) 858-3100
fax (505) 858-1118

twllc@tierrawestllc.com
1-800-245-3102

February 17, 2006

RECEIVED
FEB 21 2006
HYDROLOGY SECTION

Mr. Nilo Salgado-Fernandez, PE
Development and Building Services
Public Works Department
PO Box 1293
Albuquerque, NM 87103

RE: DRB Approved Site Plan Certification for Permanent Certificate of Occupancy
Sam's Club # 4938 & Sam's Club Gas Station
1421 Renaissance Boulevard NE

Dear Mr. Salgado-Fernandez:

Tierra West, LLC requests a Permanent Certification of the DRB approved Site Plan for Building Permit for Sam's Club and the Sam's Club Gas Station both located at 1421 Renaissance Boulevard NE. Enclosed please find the information sheet, the DRB Approved Site Plan for Building Permit (for reference) and the As-Built Site Plan for Building Permit. The two plans are being submitted for clarification of the revised striping orientation. Construction of the right turn lane and the punchlist has been completed under City Project Number 598283. Field verification of the site was completed by our office and is in substantial compliance with the approved plan. Therefore, we request Certification of the Site Plan for Building Permit for a Permanent Certificate of Occupancy.

If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely,

RONALD RAY BOHANNAN
NEW MEXICO
7868
REGISTERED PROFESSIONAL ENGINEER

Ronald R. Bohannan, PE

Enclosure/s

cc: Dani Ziem

JN: 24024
RRB/bf/kdk

24024Sam'spermnilotclcert021706

CITY OF ALBUQUERQUE

THREE HUNDRED YEARS 1706 • 2006
ALBUQUERQUE
Making History

Planning Department
Transportation Development Services Section

January 31, 2006

Ronald R. Bohannan, P.E.,
Tierra West, LLC
8509 Jefferson NE
Albuquerque, NM 87113

Re: Approval of Temporary Certificate of Occupancy (C.O.) for
Sam's Club - Renaissance Center, [F-16 / D23]
1421 Renaissance Blvd NE
Engineer's Stamp Dated 01/30/06

Dear Mr. Bohannan:

Based on the information provided on your submittal dated January 30, 2006, the above referenced project is approved for a 30-day Temporary C.O.

A Temporary C.O. has been issued allowing the outstanding paving issues located west of the store and the entrance along the access road on the north side of the store to be completed within this time period. When these remaining issues have been fully completed, are in substantial compliance, and a final Certification for Transportation has been resubmitted to the City's Hydrology office for approval, a Permanent C.O. will be issued.

The Certification package for Final C.O. must include an ***exact*** copy of the approved TCL, or signed off D.R.B. Site Plan, which is in each of the two City Permit Plan Sets—the contractor's City field set and the City's plan set in the basement of the Plaza Del Sol building. Package also must include a letter of certification on designer's letterhead-stamped with his seal, signed, and dated. Submit package along with fully completed Drainage Information Sheet to front counter personnel for log in and evaluation by Transportation.

If you have any questions, please call me at 924-3630.

Sincerely,

Nilo E. Salgado Fernandez, P.E.
Senior Traffic Engineer
Development and Building Services
Planning Department

c: Engineer
Hydrology file
CO Clerk

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

TIERRA WEST, LLC

8509 Jefferson NE
Albuquerque, NM 87113

(505) 858-3100
fax (505) 858-1118

twllc@tierrawestllc.com
1-800-245-3102

January 30, 2006

Mr. Nilo Salgado-Fernandez, PE
Development and Building Services
Public Works Department
PO Box 1293
Albuquerque, NM 87103

RE: DRB Approved Site Plan Certification for Temporary Certificate of Occupancy
Sam's Club # 4938
1421 Renaissance Boulevard NE

Dear Mr. Salgado-Fernandez:

Tierra West, LLC requests a Temporary Certification of the DRB approved Site Plan for Building Permit for Sam's Club located at 1421 Renaissance Boulevard NE. Enclosed please find the information sheet and the As-Built Site Plan for Building Permit. The outstanding items for the site include completion of concrete paving west of the store and the entrance along the access road on the north side of the store. Field verification of the site was completed by our office and is in substantial compliance with the approved plan. Therefore, we are requesting Certification of the Site Plan for Building Permit for a Temporary Certificate of Occupancy.

If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely,

RONALD RAY BOHANNAN
NEW MEXICO
7868
REGISTERED PROFESSIONAL ENGINEER

Ronald R. Bohannan, PE

Enclosure/s

cc: Dani Ziem

JN: 24024
RRB/bf/kdk

24024Sam'stempnilotclcert013006

DRAINAGE AND TRANSPORTATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Sam's Club # 4938 - Renaissance Center
ZONE MAP/DRG. FILE #: F16/D23
DRB #: 1000045 EPC #:
WORK ORDER: 5982.83

LEGAL DESCRIPTION: Tracts 3A4A and 3B2A Renaissance Center
CITY ADDRESS: 1421 Renaissance Blvd. NE

ENGINEERING FIRM:	Tierra West, LLC	CONTACT:	Sara Lavy
ADDRESS:	8509 Jefferson NE	PHONE:	(505) 858-3100
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87113
OWNER:	Wal-Mart Stores East, LLP	CONTACT:	
ADDRESS:	2001 SE 10th Street	PHONE:	501-273-4000
CITY, STATE:	Bentonville, AR	ZIP CODE:	72716
ARCHITECT:	Raymond Harris & Associates Architects	CONTACT:	Wing Cheng
ADDRESS:	211 N. record Street, Suite 222	PHONE:	214-749-0626
CITY, STATE:	Dallas, TX	ZIP CODE:	75202
SURVEYOR:	Precision Surveys	CONTACT:	Larry Medrano
ADDRESS:	8414-D Jefferson NE	PHONE:	505-856-5700
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87113
CONTRACTOR:	Jaynes Corporation	CONTACT:	Thomas Thomsen
ADDRESS:	P.O. Box 26841	PHONE:	345-8591
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87125

CHECK TYPE OF SUBMITTAL:

- ___ DRAINAGE REPORT
- ___ DRAINAGE PLAN 1st SUBMITTAL, ***REQUIRES TCL or equal***
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- ___ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ___ CLOMR/LOMR
- ___ TRAFFIC CIRCULATION LAYOUT (TCL)
- ___ ENGINEERS CERTIFICATION (TCL)
- X ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ___ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

- ___ SIA / FINANACIAL GUARANTEE RELEASE
- ___ PRELIMINARY PLAT APPROVAL
- ___ S. DEV. PLAN FOR SUB'D. APPROVAL
- ___ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ___ SECTOR PLAN APPROVAL
- ___ FINAL PLAT APPROVAL
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- ___ BUILDING PERMIT APPROVAL
- ___ CERTIFICATE OF OCCUPANCY (PERM.)
- X CERTIFICATE OF OCCUPANCY (TEMP.)
- ___ GRADING PERMIT APPROVAL
- ___ PAVING PERMIT APPROVAL
- ___ WORK ORDER APPROVAL
- ___ SO-19

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ___ YES
- ___ NO
- ___ COPY PROVIDED

RECEIVED
JAN 30 2006
HYDROLOGY SECTION

DATE SUBMITTED: 1/30/06 BY: Brad Frosch

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of sumbittal may be required based on the following:

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CITY OF ALBUQUERQUE

THREE HUNDRED YEARS
1706 • 2006
ALBUQUERQUE
Making History

January 31, 2006

Mr. Ron Bohannan, P.E.
TIERRA WEST, LLC
8509 Jefferson St. NE
Albuquerque, NM 87113

Re: SAM'S CLUB @ RENAISSANCE GAS STATION
1421 Renaissance Blvd. NE
Approval of Permanent Certificate of Occupancy (C.O.)
Engineer's Stamp dated 11/25/2005 (F-16/D023)
Certification dated 01/30/2006

Dear Ron,

Based upon the information provided in your submittal received 01/30/2006, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3982.

Sincerely,

Arlene V. Portillo

Arlene V. Portillo
Plan Checker, Planning Dept. - Hydrology
Development and Building Services

C: CO Clerk
File

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Sam's Club # 4938 - Gas Station
ZONE MAP/DRG. FILE #: F16/D23
DRB #: 1000045 EPC #:
WORK ORDER: 5982.83

LEGAL DESCRIPTION: Tracts 3A4A and 3B2A Renaissance Center
CITY ADDRESS: 1421 Renaissance Blvd. NE

ENGINEERING FIRM:	Tierra West, LLC	CONTACT:	Sara Lavy
ADDRESS:	8509 Jefferson NE	PHONE:	(505) 858-3100
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87113
OWNER:	Wal-Mart Stores East, LLP	CONTACT:	
ADDRESS:	2001 SE 10th Street	PHONE:	501-273-4000
CITY, STATE:	Bentonville, AR	ZIP CODE:	72716
ARCHITECT:	Raymond Harris & Associates Architects	CONTACT:	Wing Cheng
ADDRESS:	211 N. record Street, Suite 222	PHONE:	214-749-0626
CITY, STATE:	Dallas, TX	ZIP CODE:	75202
SURVEYOR:	Precision Surveys	CONTACT:	Larry Medrano
ADDRESS:	8414-D Jefferson NE	PHONE:	505-856-5700
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87113
CONTRACTOR:	Jaynes Corporation	CONTACT:	Thomas Thomsen
ADDRESS:	P.O. Box 26841	PHONE:	345-8591
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87125

CHECK TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1st SUBMITTAL, ***REQUIRES TCL or equal***
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL GRADING & DRAINAGE PLAN
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- X ENGINEER'S CERTIFICATION (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEERS CERTIFICATION (TCL)
- ____ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ____ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

- ____ SIA / FINANACIAL GUARANTEE RELEASE
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D. APPROVAL
- ____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ FOUNDATION PERMIT APPROVAL
- ____ BUILDING PERMIT APPROVAL
- X CERTIFICATE OF OCCUPANCY (PERM.)
- ____ CERTIFICATE OF OCCUPANCY (TEMP.)
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ SO-19

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ____ YES
- ____ NO
- ____ COPY PROVIDED

RECEIVED
JAN 30 2006
HYDROLOGY SECTION

DATE SUBMITTED: 1/30/06 BY: Brad Frosch

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of sumbittal may be required based on the following:

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CITY OF ALBUQUERQUE

THREE HUNDRED YEARS 1706 • 2006
ALBUQUERQUE
Making History

May 5, 2005

Ronald Bohannan, P.E.
Tierra West, LLC
8509 Jefferson NE
Albuquerque, NM 87113

Re: Sam's Club at Renaissance Center, Northwest corner of Renaissance Blvd and Culture Dr, Grading and Drainage Plan

Engineer's Stamp dated 1-25-05 (F16-D23)

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 3-23-05, the above referenced plan is approved for Preliminary Plat and Site Development Plan for Building Permit action by the DRB. It is also approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Note that all work within easements and the public right of way will require a Work Order. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions regarding this permit please feel free to call the DMD Storm Drainage Design section at 768-3654 (Charles Caruso).

If you have any questions, you can contact me at 924-3981.

Sincerely,

Kristal D. Metro
Engineering Associate, Planning Dept.
Development and Building Services

C: Charles Caruso, DMD Storm Drainage Design
File

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Sam's Club Renaissance Center
ZONE MAP/DRG. FILE #: F-16 / D23
DRB #: EPC #:
WORK ORDER #:

LEGAL DESCRIPTION: Tracts 3A4A and 3B2A Renaissance Center
CITY ADDRESS: Northwest corner of Renaissance Blvd and Culture Dr

ENGINEERING FIRM:	Tierra West, LLC	CONTACT:	SARA LAVY
ADDRESS:	8509 Jefferson NE	PHONE:	(505) 858-3100
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87113
OWNER:	Walmart Stores East, LP	CONTACT:	
ADDRESS:	2001 SE 10th Street	PHONE:	(501) 273-4000
CITY, STATE:	Bentonville, AR	ZIP CODE:	72716
ARCHITECT:	Raymond Harris & Associates Architects	CONTACT:	Wing Cheng
ADDRESS:	211 N. Record Street, Suite 222	PHONE:	(214) 749-0626
CITY, STATE:	Dalls, TX	ZIP CODE:	75202
SURVEYOR:	Precision Surveys	CONTACT:	Larry Medrano
ADDRESS:	8414-D Jefferson Street, NE	PHONE:	856-5700
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87113
CONTRACTOR:	Jaynes Corporation	CONTACT:	Mark Strong
ADDRESS:	2906 Broadway	PHONE:	345-8591
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87107

CHECK TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1st SUBMITTAL, ***REQUIRES TCL or equal***
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL GRADING & DRAINAGE PLAN
- X GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEERS CERTIFICATION (TCL)
- ____ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ____ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

- ____ SIA / FINANACIAL GUARANTEE RELEASE
- X PRELIMINARY PLAT APPROVAL
- X S. DEV. PLAN FOR SUB'D. APPROVAL
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- ____ SECTOR PLAN APPROVAL
- X FINAL PLAT APPROVAL
- ____ FOUNDATION PERMIT APPROVAL
- X BUILDING PERMIT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM.)
- ____ CERTIFICATE OF OCCUPANCY (TEMP.)
- X GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ____ YES
- X NO
- ____ COPY PROVIDED

RECEIVED
MAR 23 2005
HYDROLOGY SECTION

DATE SUBMITTED: 3/22/2005 BY: Sara Lavy

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of sumbittal may be required based on the following:

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3. **Drainage Report**: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

0.1 cfs/acre

Area = 14.5 Acres

1.45 cfs allowable outflow

TIERRA WEST, LLC

8509 Jefferson NE
Albuquerque, NM 87113

(505) 858-3100
fax (505) 858-1118

twllc@tierrawestllc.com
1-800-245-3102

March 22, 2005

Mr. Brad Bingham, PE
Hydrology Section
City of Albuquerque
600 Second Street NW
Albuquerque, New Mexico 87103

RE: Sam's Club Renaissance
Tract 3A4A and 3B2A, Renaissance Center

Dear Mr. Bingham:

Enclosed, please find a new grading and drainage plan for the Sam's Club in the Renaissance Center. The grading and drainage plan was previously approved with a stamp date of 12-17-04. We are resubmitting the plan approved with DRB and dated 1-25-05. The reason for the new grading plan is the western entrance on Renaissance moved east at the request of the Traffic Department to avoid doing any median reconstruction. This affected the grades in the southwest corner of the site, but the drainage solution remains the same. We are requesting Grading Permit and Building Permit approval of the Grading Plan at this time.

Should you have any questions regarding this submittal, please do not hesitate to call me.

Sincerely,

Sara Lavy

Sara Lavy, P.E.

Enclosures

JN: 24024
scl

Z: 2004/Correspondence/ 2424 b bingham 3-21-05 doc

RECEIVED
MAR 23 2005
HYDROLOGY SECTION

CITY OF ALBUQUERQUE

THREE HUNDRED YEARS
1706 * 2006
ALBUQUERQUE
Making History

March 18, 2005

Ron Bohannan, PE
Tierra West LLC
8509 Jefferson NE
Albuquerque, NM 87113

Re: Sam's Club Renaissance Center Drainage Report
Engineer Stamp date 12-22-04 (F16/D23)

Dear Mr. Bohannan,

Based on information provided in your submittal dated 12-23-04, the above referenced report is approved for Preliminary Plat and Site Development Plan action by the DRB. It is also approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. All work in the public R/W and easements will require a Work Order.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. Refer to the attachment that is provided with this letter for details. If you have any questions please feel free to call the Municipal Development Department Hydrology section at 768-3654 (Charles Caruso).

If you have any questions, you can contact me at 924-3986.

Sincerely,

Bradley L. Bingham, PE
Principal Engineer, Planning Dept
Development and Building Services

C: Chuck Caruso, CoA
file

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

DRAINAGE AND TRANSPORTATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Sam's Club Renaissance Center
ZONE MAP/DRG. FILE #: F-16 / D23
DRB #: EPC #:
WORK ORDER #:

LEGAL DESCRIPTION: Tracts 3A4A and 3B2A Renaissance Center
CITY ADDRESS: Northwest corner of Renaissance Blvd and Culture Dr

ENGINEERING FIRM:	Tierra West, LLC	CONTACT:	SARA LAVY
ADDRESS:	8509 Jefferson NE	PHONE:	(505) 858-3100
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87113
OWNER:	Walmart Stores East, LP	CONTACT:	
ADDRESS:	2001 SE 10th Street	PHONE:	(501) 273-4000
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ARCHITECT:	Raymond Harris & Associates Architects	CONTACT:	Wing Cheng
ADDRESS:	211 N. Record Street, Suite 222	PHONE:	(214) 749-0626
CITY, STATE:	Dalls, TX	ZIP CODE:	75202
SURVEYOR:	Precision Surveys	CONTACT:	Larry Medrano
ADDRESS:	8414-D Jefferson Street, NE	PHONE:	856-5700
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87113
CONTRACTOR:		CONTACT:	
ADDRESS:		PHONE:	
CITY, STATE:		ZIP CODE:	

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- ___ CLOMR/LOMR
- ___ TRAFFIC CIRCULATION LAYOUT (TCL)
- ___ ENGINEERS CERTIFICATION (TCL)
- ___ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ___ OTHER

fee paid

CHECK TYPE OF APPROVAL SOUGHT:

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- ___ CERTIFICATE OF OCCUPANCY (TEMP.)
- X GRADING PERMIT APPROVAL
- ___ PAVING PERMIT APPROVAL
- ___ WORK ORDER APPROVAL
- ___ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ___ YES
- X NO
- ___ COPY PROVIDED

RECEIVED DRB DEC 23 2004 HYDROLOGY SECTION

RECEIVED DRB 2004 HYDROLOGY SECTION

DATE SUBMITTED: 12/23/2004 BY: Sara Lavy

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DRAINAGE REPORT

for

Sam's Club
Tract 3A4A and 3B2A Renaissance Center
Albuquerque, New Mexico

Prepared by

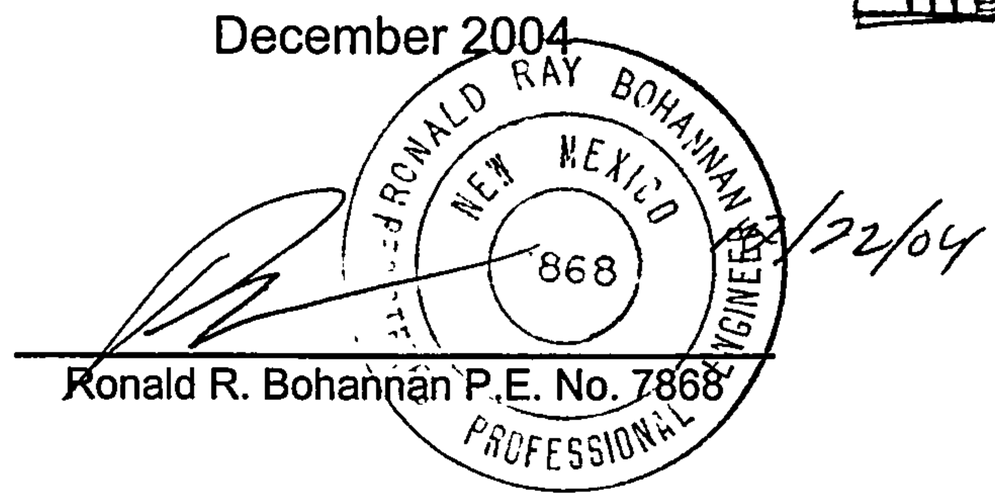
Tierra West, LLC
8509 Jefferson NE
Albuquerque, New Mexico 87113

Prepared for

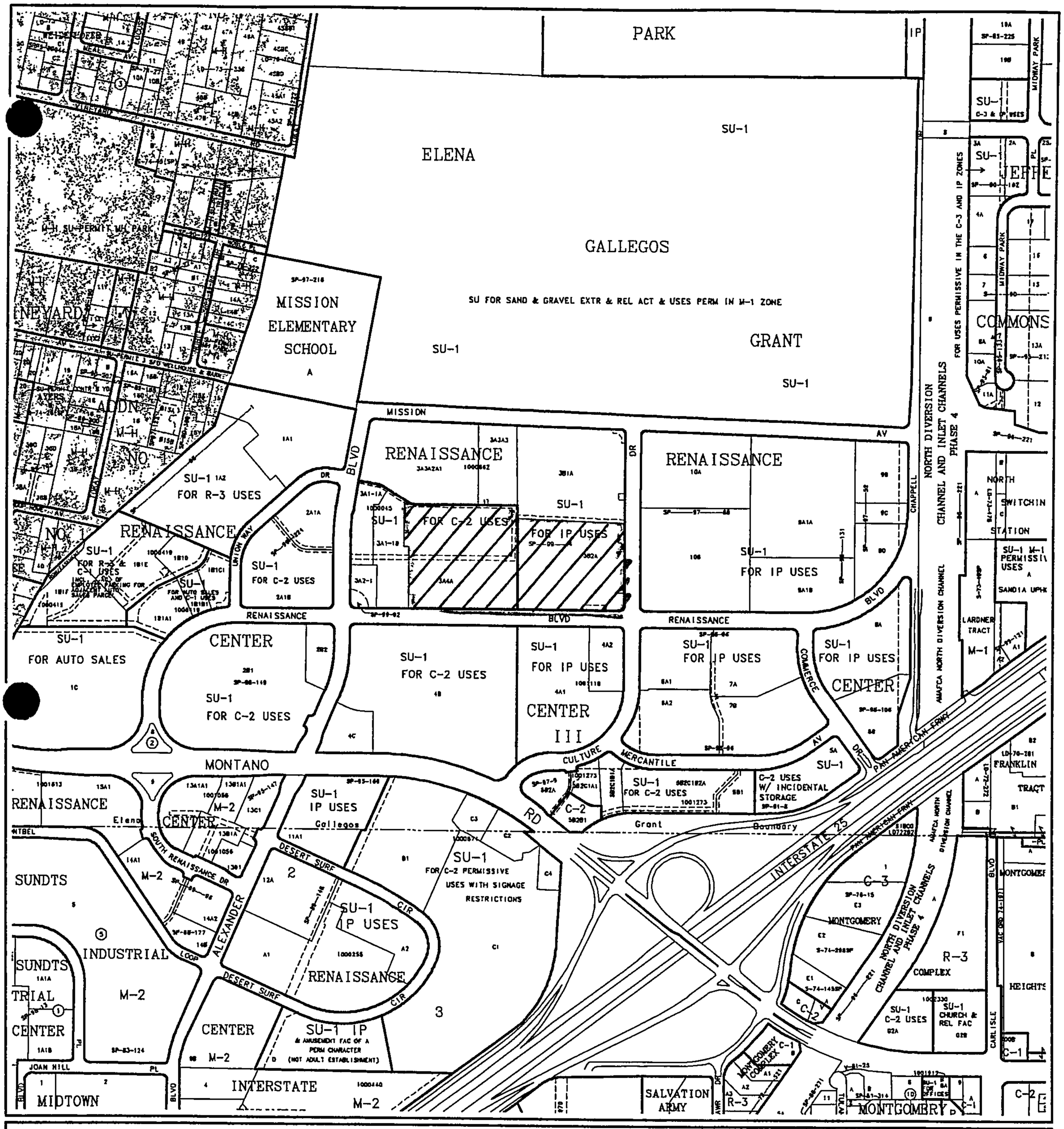
Wal-Mart Stores East, LP
2001 SE 10th Street
Bentonville, AR 72716-0550

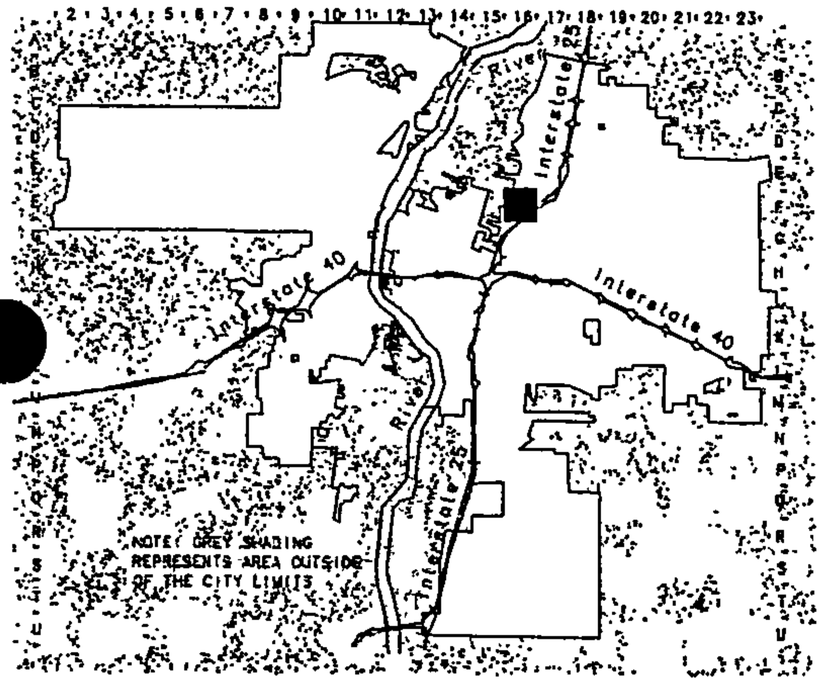
RECEIVED
DEC 23 2004
HYDROLOGY SECTION

December 2004



Ronald R. Bohannan P.E. No. 7868





CITY OF Albuquerque

Albuquerque Geographic Information System

PLANNING DEPARTMENT

© Copyright 2003

GRAPHIC SCALE IN FEET

250 0 750 1000

Zone Atlas Page

F-16-Z

Map Amended through July 10, 2003

Location

The Sam's Club is located on the northwest corner of Culture Drive and Renaissance Boulevard. It is a 135,000 square foot discount store with a six pump gas station located on the southeast corner of the site. The site is shown on Zone Atlas Page F-16 and contains approximately 14.5 acres. The purpose of this report is to provide the drainage analysis and management plan for the site.

Existing Drainage Conditions

The site is currently undeveloped although grading has occurred on the site. A temporary berm and several desilting ponds were previously constructed on the site. These will be removed with this construction. Culture Drive and Renaissance Boulevard prevent any offsite flows from entering the site from the south and east. Offsite flows enter the site from the General Technology and Russ Harrison buildings and drain to a temporary desilting pond. The desilting pond will be removed and the existing pipe connected to the new storm drain system being constructed with the Sam's Club.

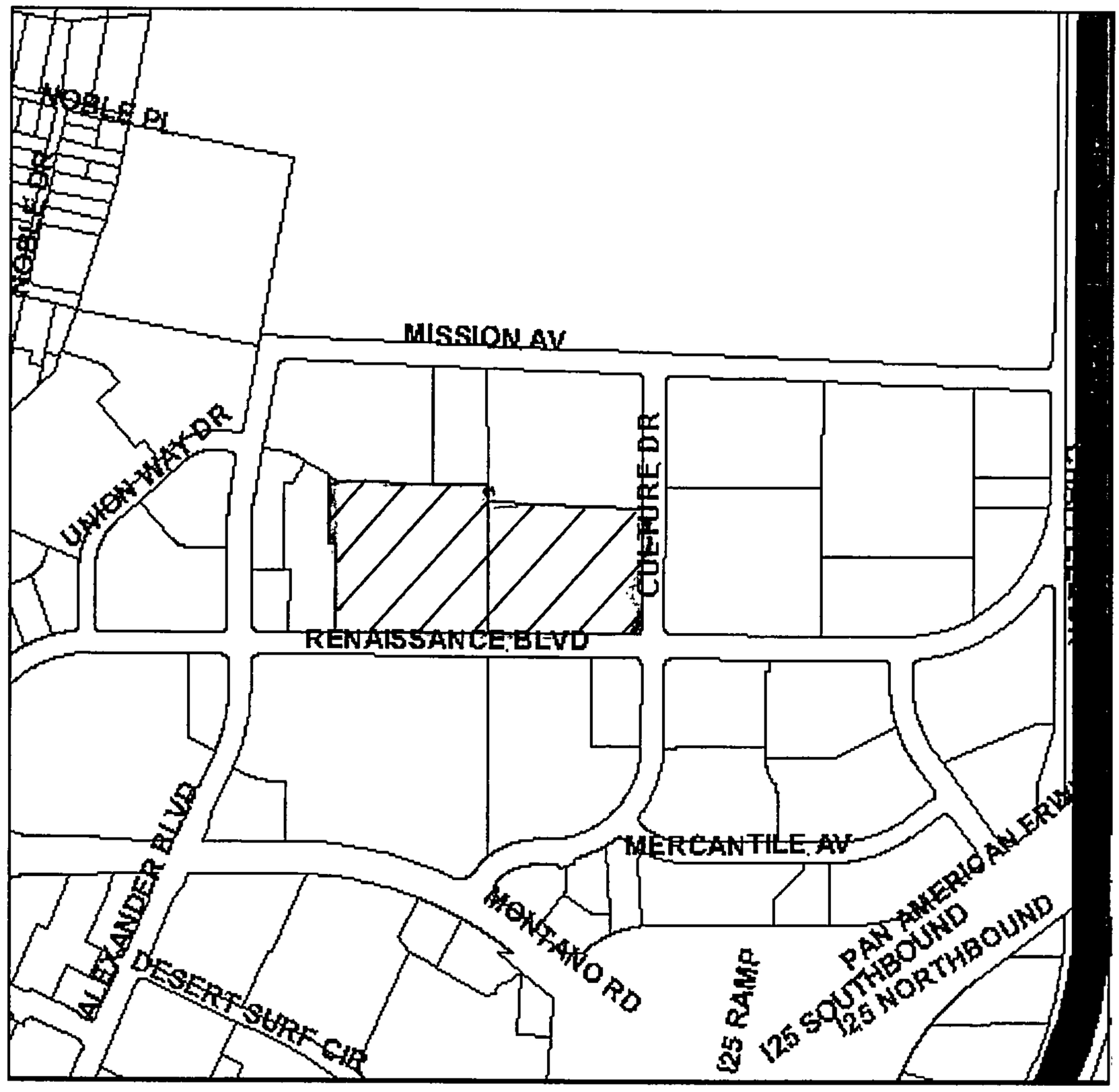
FIRM Map

The site is located on FIRM Map 35001C0138 D as shown on the attached excerpt. The map shows that the site does not lie within any 100-year flood plains.

On-Site Drainage Management Plan

The site falls within the Renaissance Center drainage master plan, which restricts the allowable outflow to 0.1 cfs/acre. The Sam's Club consists of Tracts 3A4A and 3B2A. These tracts were analyzed in the drainage report for Tract 3 of the Renaissance Center (F19-D20) previously approved by the City of Albuquerque. This was a master plan for development of Tract 3 in the Renaissance Center. Since then, most of Tract 3, except the two tracts the Sam's

FIRM Map 35001C0138 D



Flood Zones

Zone A Zone AO Zone AH Zone AE

Club is proposing to improve on, has developed (General Technologies F16/D18, Fedex Ground F16/D22, and Russ Harrison F16/D20A). This report incorporates the drainage plans for all the sites within Tract 3 and analyzes ponding and outflows.

The site has been divided into eight basins. There are four proposed ponds. Ponds 1 thru 3 are located within the parking lot, and Pond 4 is located on the west edge of the site (within Basin 7). All the flows from the site will drain to Pond 4 and then be discharged to an existing storm drain that drains to an existing parking lot pond within the Office Depot site. Please see the attached schematic for basin and pond routing.

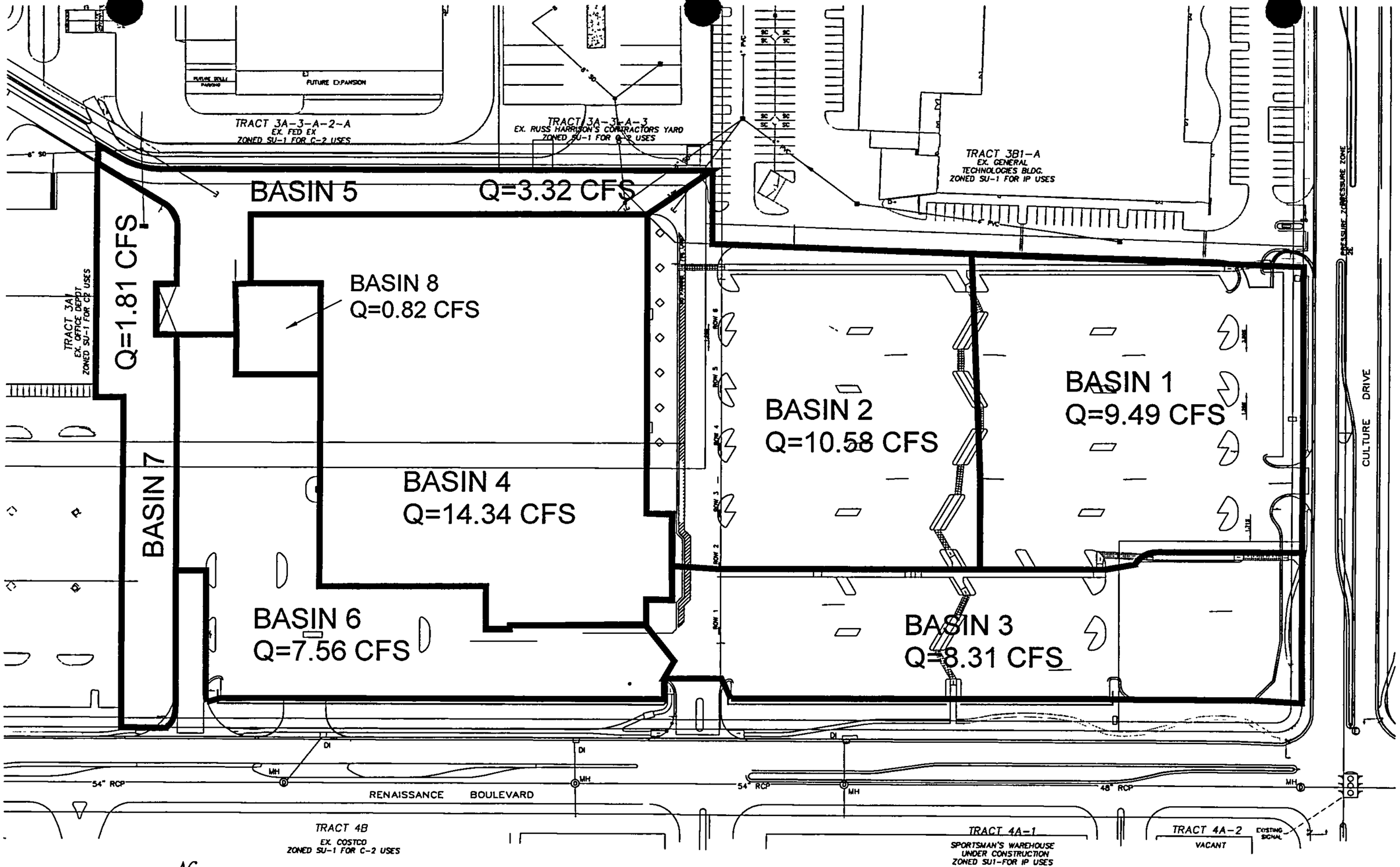
The Russ Harrison site discharges 0.21 cfs onto the Sam's site and the General Technology site discharges 0.56 cfs to the same existing desilting pond. These flows will be collected in the new storm drain system and routed to Pond 4. The Sam's Club site will discharge a total of 9.49 cfs to the Office Max site. The existing pond on the Office Max site will throttle the discharge from the site to 2.97 cfs. Tract 3 contains 33.31 acres, which is an allowable discharge of 3.33 cfs. The 2.97 cfs discharging from Tract 3 to Renaissance Boulevard is less than 3.33 cfs and meets the requirements of the Renaissance Master Plan.

Calculations

The Weighted E method from the "City of Albuquerque Development Process Manual Volume 11 – Design Criteria, 1997 Revision" was used to calculate the runoff and volume for the site.

Summary

The site is part of the Renaissance Master Plan and the Tract 3 Master Plan. Therefore, Tract 3 is allowed to discharge 3.33 cfs. This drainage report assimilates all the AHYMO for the previous projects on Tract 3 into one analysis. This shows that Tract 3 discharges 2.97 cfs, which is less than the allowable discharge.



DEVELOPED BASIN LAYOUT

Runoff Calculations

Drainage Basins

Developed Basins

BASIN	AREA (SF)	AREA (AC)	AREA (MI²)
1	96666.2	2.2192	0.003467
2	107818.6	2.4752	0.003867
3	84672.6	1.9438	0.003037
4	135193.9	3.1036	0.004849
5	33683.5	0.7733	0.001208
6	76947.8	1.7665	0.002760
7	34597.6	0.7943	0.001241
8	7682.4	0.1764	0.000276
Total	577262.5	13.2521	0.020706

Runoff Calculation Results

Developed

BASIN	Q-100 CFS	Q-10 CFS	V-100 AC-FT	V-10 AC-FT
1	9.49	6.08	0.417	0.259
2	10.58	6.77	0.465	0.289
3	8.31	5.32	0.365	0.227
4	14.34	9.48	0.651	0.413
5	3.32	2.12	0.145	0.090
6	7.56	4.84	0.332	0.206
7	1.81	0.73	0.051	0.018
8	0.82	0.55	0.037	0.024
Total	56.23	35.89	2.463	1.526

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - VERSION: 1997.02a RUN DATE (MON/DAY/YR) =12/20/2004
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COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1 NOTATION
START										TIME= .00
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COMPUTE NM HYD	100.10	-	1	.00347	9.49	.417	2.25624	1.500	4.277	PER IMP= 85.00
COMPUTE NM HYD	100.20	-	2	.00387	10.58	.465	2.25624	1.500	4.276	PER IMP= 85.00
COMPUTE NM HYD	100.30	-	3	.00304	8.31	.365	2.25624	1.500	4.277	PER IMP= 85.00
COMPUTE NM HYD	100.40	-	4	.00485	14.34	.651	2.51715	1.500	4.624	PER IMP= 100.00
COMPUTE NM HYD	100.50	-	5	.00121	3.32	.145	2.25625	1.500	4.291	PER IMP= 85.00
COMPUTE NM HYD	100.60	-	6	.00276	7.56	.332	2.25624	1.500	4.279	PER IMP= 85.00
COMPUTE NM HYD	100.70	-	7	.00124	1.81	.051	.77774	1.500	2.283	PER IMP= .00
COMPUTE NM HYD	100.80	-	8	.00028	.82	.037	2.51715	1.500	4.669	PER IMP= 100.00
START										TIME= .00
RAINFALL TYPE= 2										RAIN24= 1.830
COMPUTE NM HYD	100.10	-	1	.00347	6.08	.259	1.40135	1.500	2.738	PER IMP= 85.00
COMPUTE NM HYD	100.20	-	2	.00387	6.77	.289	1.40135	1.500	2.737	PER IMP= 85.00
COMPUTE NM HYD	100.30	-	3	.00304	5.32	.227	1.40135	1.500	2.738	PER IMP= 85.00
COMPUTE NM HYD	100.40	-	4	.00485	9.48	.413	1.59950	1.500	3.056	PER IMP= 100.00
COMPUTE NM HYD	100.50	-	5	.00121	2.12	.090	1.40135	1.500	2.745	PER IMP= 85.00
COMPUTE NM HYD	100.60	-	6	.00276	4.84	.206	1.40135	1.500	2.739	PER IMP= 85.00
COMPUTE NM HYD	100.70	-	7	.00124	.73	.018	.27848	1.500	.921	PER IMP= .00
COMPUTE NM HYD	100.80	-	8	.00028	.55	.024	1.59951	1.500	3.086	PER IMP= 100.00
FINISH										

```
*****************************************************************
*                                                               *
*                          SAM'S CLUB                           *
*                   TRACT 3 RENAISSANCE CENTER                  *
*                                                               *
*****************************************************************
*                  PROPOSED CONDITIONS (100-YEAR STORM)         *
*****************************************************************
*
START                 TIME=0.0 HR
*
RAINFALL              TYPE=2 RAIN QUARTER=0.0 IN
                      RAIN ONE=2.01 IN RAIN SIX=2.35 IN
                      RAIN DAY=2.75 IN DT=0.05 HR
*
* BASIN 1

COMPUTE NM HYD        ID=1 HYD NO=100.1 AREA=0.003467 SQ MI
                      PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=1 CODE=1

* BASIN 2

COMPUTE NM HYD        ID=2 HYD NO=100.2 AREA=0.003867 SQ MI
                      PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=2 CODE=1


* BASIN 3

COMPUTE NM HYD        ID=3 HYD NO=100.3 AREA=0.003037 SQ MI
                      PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=3 CODE=1


* BASIN 4

COMPUTE NM HYD        ID=4 HYD NO=100.4 AREA=0.004847 SQ MI
                      PER A=0 PER B=0.00 PER C=0.00 PER D=100.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=4 CODE=1


* BASIN 5

COMPUTE NM HYD        ID=5 HYD NO=100.5 AREA=0.001208 SQ MI
                      PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=5 CODE=1


* BASIN 6

COMPUTE NM HYD        ID=6 HYD NO=100.6 AREA=0.002760 SQ MI
                      PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=6 CODE=1


* BASIN 7
```

```
COMPUTE NM HYD        ID=7 HYD NO=100.7 AREA=0.001241 SQ MI
                      PER A=0 PER B=100.00 PER C=0.00 PER D=0.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=7 CODE=1

* BASIN 8

COMPUTE NM HYD        ID=8 HYD NO=100.8 AREA=0.000276 SQ MI
                      PER A=0 PER B=0.00 PER C=0.00 PER D=100.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=8 CODE=1


*****************************************************************
*                PROPOSED CONDITIONS (10-YEAR STORM)            *
*****************************************************************
*
START                 TIME=0.0 HR
*
RAINFALL              TYPE=2 RAIN QUARTER=0.0 IN
                      RAIN ONE=1.34 IN RAIN SIX=1.57 IN
                      RAIN DAY=1.83 IN DT=0.05 HR
*
* BASIN 1

COMPUTE NM HYD        ID=1 HYD NO=100.1 AREA=0.003467 SQ MI
                      PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=1 CODE=1

* BASIN 2

COMPUTE NM HYD        ID=2 HYD NO=100.2 AREA=0.003867 SQ MI
                      PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=2 CODE=1


* BASIN 3

COMPUTE NM HYD        ID=3 HYD NO=100.3 AREA=0.003037 SQ MI
                      PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=3 CODE=1


* BASIN 4

COMPUTE NM HYD        ID=4 HYD NO=100.4 AREA=0.004847 SQ MI
                      PER A=0 PER B=0.00 PER C=0.00 PER D=100.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=4 CODE=1


* BASIN 5

COMPUTE NM HYD        ID=5 HYD NO=100.5 AREA=0.001208 SQ MI
                      PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=5 CODE=1
```

```
* BASIN 6

COMPUTE NM HYD        ID=6 HYD NO=100.6 AREA=0.002760 SQ MI
                      PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=6 CODE=1

* BASIN 7

COMPUTE NM HYD        ID=7 HYD NO=100.7 AREA=0.001241 SQ MI
                      PER A=0 PER B=100.00 PER C=0.00 PER D=0.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=7 CODE=1

* BASIN 8

COMPUTE NM HYD        ID=8 HYD NO=100.8 AREA=0.000276 SQ MI
                      PER A=0 PER B=0.00 PER C=0.00 PER D=100.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=8 CODE=1
*
FINISH
```

Storm Sewer

DROP INLET CALCULATIONS

Basin	TYPE OF INLET	AREA (SF)	Q (CFS)	H (FT)	H ALLOW (FT)
1	Single 'D'	4.21	9.49	0.2192	0.5
2	Single 'D'	4.21	10.58	0.2724	0.5
3	Single 'D'	4.21	8.31	0.1681	0.5
5	Single 'D'	4.21	7.56	0.1391	0.5

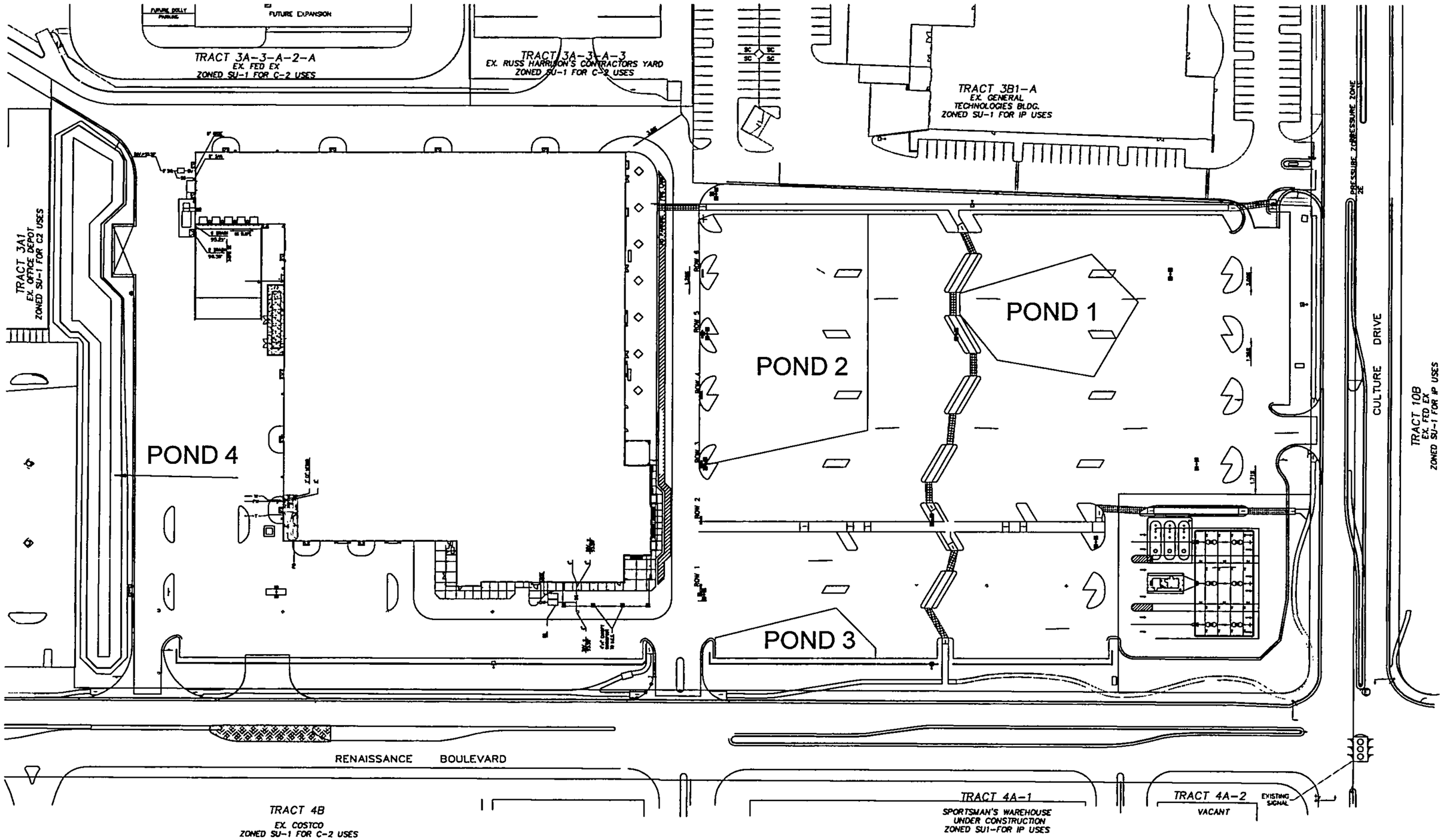
ORIFICE EQUATION

Q = CA sqrt(2gH)

C = 0.6

g = 32.2

Pond
Calculations



POND LOCATIONS

VOLUME CALCULATIONS
POND 1

Ab - Bottom Of The Pond Surface Area
At - Top Of The Pond Surface Area
D - Water Depth
Dt - Total Pond Depth
C - Change In Surface Area / Water Depth

Volume = Ab * D + 0.5 * C * D^2
C = (At - Ab) / Dt

Ab	=	6.80
At	=	12,766.07
Dt	=	1.04
C	=	12268.53

ACTUAL ELEV.	DEPTH (FT)	VOLUME (AC-FT)	Q (CFS)
39.54	0	0	0.0000
43.54	4.00	0.0006	3.2184
43.74	4.20	0.0063	3.3050
43.94	4.40	0.0232	3.3894
44.14	4.60	0.0514	3.4717
44.34	4.80	0.0909	3.5522
44.54	5.00	0.1416	3.6308
44.58	5.04	0.1531	3.6463

<u>Orifice Equation</u>
Q = CA SQRT(2gH)

C =	0.6
Diameter (in)	8
Area (ft^2)=	0.349
g =	32.2
H (Ft) =	Depth of water above center of orifice
Q (CFS)=	Flow

VOLUME CALCULATIONS
POND 2

Ab - Bottom Of The Pond Surface Area
At - Top Of The Pond Surface Area
D - Water Depth
Dt - Total Pond Depth
C - Change In Surface Area / Water Depth

Volume = Ab * D + 0.5 * C * D^2
C = (At - Ab) / Dt

Ab = 6.80
At = 35,762.11
Dt = 0.83
C = 43078.69

ACTUAL ELEV.	DEPTH (FT)	VOLUME (AC-FT)	Q (CFS)
37.00	0	0	0.0000
41.00	4.00	0.0006	0.4653
41.20	4.20	0.0204	0.4771
41.40	4.40	0.0798	0.4887
41.60	4.60	0.1787	0.5000
41.80	4.80	0.3172	0.5110
41.83	4.83	0.3414	0.5127

<u>Orifice Equation</u>
Q = CA SQRT(2gH)

C = 0.6
Diameter (in) 3
Area (ft^2)= 0.049
g = 32.2
H (Ft) = Depth of water above center of orifice
Q (CFS)= Flow
H (Ft) = Depth of water above center of o
Q (CFS)= Flow

VOLUME CALCULATIONS
POND 3

Ab - Bottom Of The Pond Surface Area
At - Top Of The Pond Surface Area
D - Water Depth
Dt - Total Pond Depth
C - Change In Surface Area / Water Depth

Volume = Ab * D + 0.5 * C * D^2
C = (At - Ab) / Dt

Ab	=	6.80
At	=	5,057.14
Dt	=	1.18
C	=	4279.95

ACTUAL ELEV.	DEPTH (FT)	VOLUME (AC-FT)	Q (CFS)
35.27	0	0	0.0000
39.27	4.00	0.0006	3.6229
39.47	4.20	0.0026	3.7210
39.67	4.40	0.0085	3.8165
39.87	4.60	0.0184	3.9097
40.07	4.80	0.0322	4.0007
40.27	5.00	0.0499	4.0897
40.45	5.18	0.0692	4.1682

<u>Orifice Equation</u>
Q = CA SQRT(2gH)

C =	0.6
Diameter (in)	8.5
Area (ft^2)=	0.394
g =	32.2
H (Ft) =	Depth of water above center of orifice
Q (CFS)=	Flow

VOLUME CALCULATIONS
POND 4

Ab - Bottom Of The Pond Surface Area
At - Top Of The Pond Surface Area
D - Water Depth
Dt - Total Pond Depth
C - Change In Surface Area / Water Depth

Volume = Ab * D + 0.5 * C * D^2
C = (At - Ab) / Dt

Ab = 3,625.11
At = 19,831.43
Dt = 5.00
C = 3241.26

ACTUAL ELEV.	DEPTH (FT)	VOLUME (AC-FT)	Q (CFS)
25.4	0	0	0.0000
32.00	6.6	0.0010	1.0658
32.50	7.1	0.0519	1.1064
33.00	7.6	0.1215	1.1456
33.50	8.1	0.2096	1.1835
34.00	8.6	0.3163	1.2202
34.50	9.1	0.4416	1.2559
35.00	9.6	0.5855	1.2905
35.50	10.1	0.7481	1.3243
36.00	10.6	0.9292	1.3572
36.50	11.1	1.1289	1.3894
37.00	11.6	1.3473	1.4208

<u>Orifice Equation</u>
Q = CA SQRT(2gH)

C =	0.6
Diameter (in)	4
Area (ft^2)=	0.087
g =	32.2
H (Ft) =	Depth of water above center of orifice
Q (CFS)=	Flow

VOLUME CALCULATIONS
POND 17

Ab - Bottom Of The Pond Surface Area
At - Top Of The Pond Surface Area
D - Water Depth
Dt - Total Pond Depth
C - Change In Surface Area / Water Depth

Volume = Ab * D + 0.5 * C * D^2
C = (At - Ab) / Dt

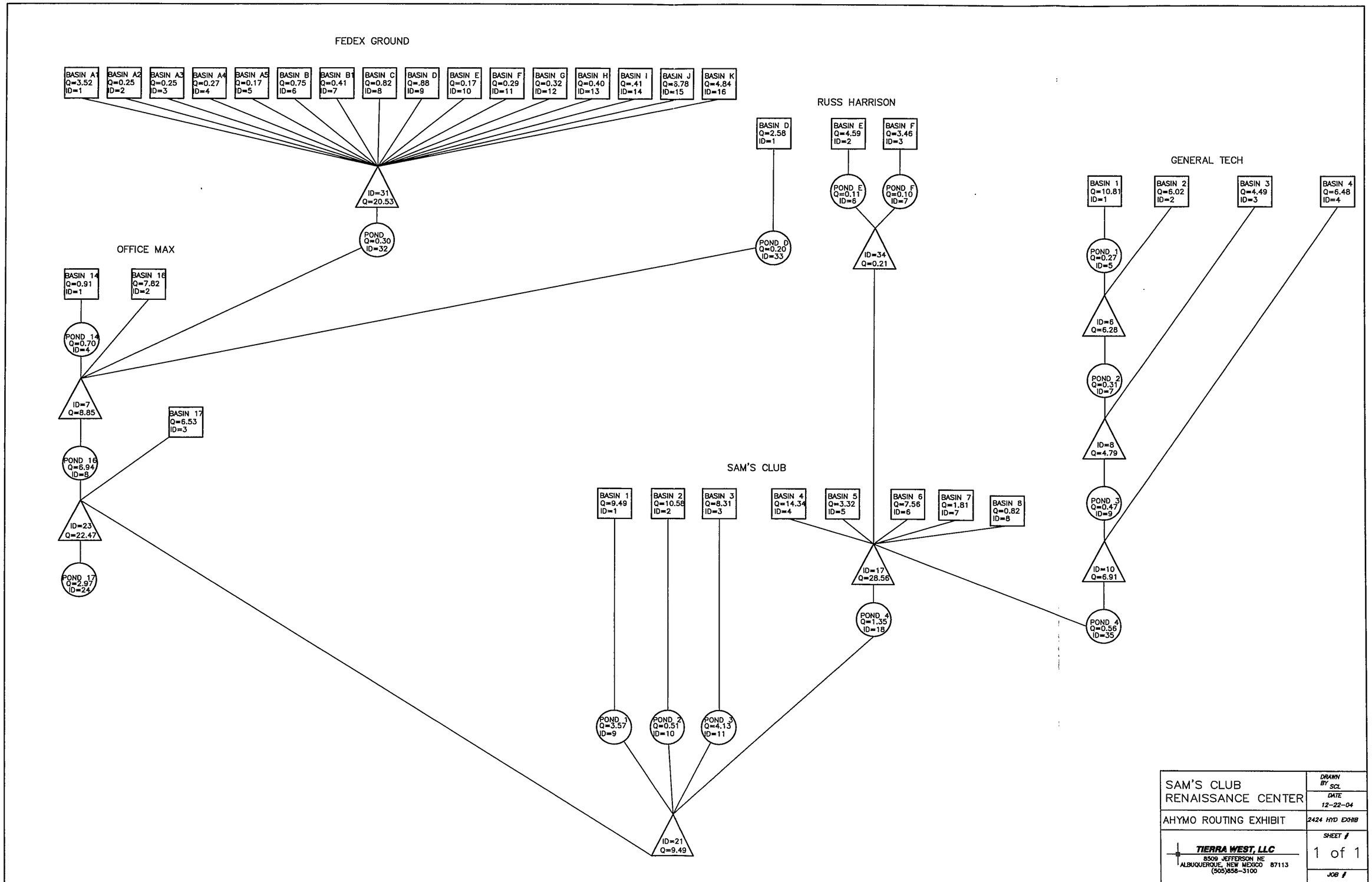
Ab = 6.80
At = 66,070.92
Dt = 1.50
C = 44042.75

ACTUAL ELEV.	DEPTH (FT)	VOLUME (AC-FT)	Q (CFS)
23.3	0	0	0.0000
32.00	8.7	0.0014	2.7482
32.30	9.0	0.0469	2.7966
32.60	9.3	0.1834	2.8441
32.90	9.6	0.4110	2.8909
33.20	9.9	0.7295	2.9369
33.50	10.2	1.1391	2.9822

<u>Orifice Equation</u>
Q = CA SQRT(2gH)

C = 0.6
Diameter (in) 6
Area (ft^2)= 0.196
g = 32.2
H (Ft) = Depth of water above center of orifice
Q (CFS)= Flow

Input and Output for AHYMO



SAM'S CLUB RENAISSANCE CENTER	DRAWN BY SCL DATE 12-22-04
AHYMO ROUTING EXHIBIT	2424 HYD EXHIB
TIERRA WEST, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100	SHEET # 1 of 1 JOB # 240024

COMPUTE NM HYD	100.40	-	4	.00235	6.48	.285	2.27364	1.500	4.304	PER IMP= 86.00
ROUTE RESERVOIR	501.10	1	5	.00403	.27	.465	2.16595	2.600	.105	AC-FT= .345
ADD HYD	101.20	2& 5	6	.00622	6.28	.730	2.20376	1.500	1.579	
ROUTE RESERVOIR	501.20	6	7	.00622	.31	.730	2.20375	3.500	.078	AC-FT= .209

□□□

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	NOTATION
ADD HYD	101.20	3& 7	8	.00784	4.79	.928	2.21821	1.500	.955	
ROUTE RESERVOIR	501.F	8	9	.00784	.47	.928	2.21822	2.450	.094	AC-FT= .142
ADD HYD	101.20	4& 9	10	.01020	6.91	1.213	2.23098	1.500	1.058	
ROUTE RESERVOIR	501.40	10	35	.01020	.56	1.213	2.23098	2.850	.086	AC-FT= .218
COMPUTE NM HYD	100.10	-	1	.00347	9.49	.417	2.25624	1.500	4.277	PER IMP= 85.00
COMPUTE NM HYD	100.20	-	2	.00387	10.58	.465	2.25624	1.500	4.276	PER IMP= 85.00
COMPUTE NM HYD	100.30	-	3	.00304	8.31	.365	2.25624	1.500	4.277	PER IMP= 85.00
COMPUTE NM HYD	100.40	-	4	.00485	14.34	.651	2.51715	1.500	4.624	PER IMP= 100.00
COMPUTE NM HYD	100.50	-	5	.00121	3.32	.145	2.25625	1.500	4.291	PER IMP= 85.00
COMPUTE NM HYD	100.60	-	6	.00276	7.56	.332	2.25624	1.500	4.279	PER IMP= 85.00
COMPUTE NM HYD	100.70	-	7	.00124	1.81	.051	.77774	1.500	2.283	PER IMP= .00
COMPUTE NM HYD	100.80	-	8	.00028	.82	.037	2.51715	1.500	4.669	PER IMP= 100.00
ROUTE RESERVOIR	501.10	1	9	.00347	3.57	.417	2.25615	1.750	1.607	AC-FT= .100
ROUTE RESERVOIR	501.20	2	10	.00387	.51	.465	2.25642	2.350	.206	AC-FT= .317
ROUTE RESERVOIR	501.30	3	11	.00304	4.13	.366	2.25789	1.650	2.123	AC-FT= .059
ADD HYD	200.40	4& 5	12	.00606	17.66	.796	2.46499	1.500	4.558	
ADD HYD	200.60	12& 6	13	.00882	25.22	1.128	2.39960	1.500	4.470	
ADD HYD	200.70	13& 7	14	.01006	27.03	1.180	2.19943	1.500	4.200	
ADD HYD	200.80	14& 8	15	.01033	27.86	1.217	2.20790	1.500	4.213	
ADD HYD	200.60	15&34	16	.01336	28.05	1.557	2.18543	1.500	3.280	
ADD HYD	200.70	16&35	17	.02356	28.56	2.770	2.20515	1.500	1.895	
ROUTE RESERVOIR	501.40	17	18	.02356	1.35	2.770	2.20515	2.650	.090	AC-FT= .912
ADD HYD	200.40	9&10	19	.00733	4.07	.883	2.25629	1.800	.867	
ADD HYD	200.60	19&11	20	.01037	8.19	1.248	2.25676	1.700	1.234	
ADD HYD	200.70	20&18	21	.03393	9.49	4.019	2.22092	1.750	.437	
COMPUTE NM HYD	100.14	-	1	.00032	.91	.040	2.34321	1.500	4.462	PER IMP= 90.00
COMPUTE NM HYD	100.16	-	2	.00278	7.82	.347	2.34321	1.500	4.396	PER IMP= 90.00
COMPUTE NM HYD	100.17	-	3	.00232	6.53	.290	2.34321	1.500	4.398	PER IMP= 90.00
ROUTE RESERVOIR	501.14	1	4	.00032	.70	.040	2.34263	1.600	3.424	AC-FT= .002
ADD HYD	200.40	32& 2	5	.01130	7.98	.916	1.52001	1.500	1.103	
ADD HYD	200.40	5& 4	6	.01162	8.66	.956	1.54259	1.500	1.165	
ADD HYD	200.40	6&33	7	.01262	8.85	1.064	1.58088	1.500	1.096	
ROUTE RESERVOIR	501.16	7	8	.01262	6.94	1.064	1.58084	1.600	.859	AC-FT= .017
ADD HYD	200.70	21& 3	22	.03625	15.67	4.309	2.22874	1.500	.676	
ADD HYD	200.80	22& 8	23	.04887	22.47	5.373	2.06141	1.500	.719	
ROUTE RESERVOIR	501.17	23	24	.04887	2.97	5.373	2.06137	2.700	.095	AC-FT= 1.084
FINISH										

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - - VERSION: 1997.02a RUN DATE (MON/DAY/YR) =12/22/2004
INPUT FILE = C:\INPUT.TXT USER NO.= AHYMO-I-9702a0100011K-SH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	NOTATION
START										TIME= .00
RAINFALL TYPE= 2										RAIN24= 2.750
COMPUTE NM HYD	100.A1	-	1	.00141	3.52	.143	1.90220	1.500	3.905	PER IMP= 60.00
COMPUTE NM HYD	100.A2	-	2	.00008	.25	.011	2.44760	1.500	4.710	PER IMP= 95.00
COMPUTE NM HYD	100.A3	-	3	.00008	.25	.011	2.44760	1.500	4.710	PER IMP= 95.00
COMPUTE NM HYD	100.A4	-	4	.00009	.27	.012	2.44760	1.500	4.710	PER IMP= 95.00
COMPUTE NM HYD	100.A5	-	5	.00006	.17	.007	2.44760	1.500	4.798	PER IMP= 95.00
COMPUTE NM HYD	100.B	-	6	.00026	.75	.032	2.28884	1.500	4.461	PER IMP= 85.00
COMPUTE NM HYD	100.B1	-	7	.00014	.41	.018	2.37805	1.500	4.595	PER IMP= 90.00
COMPUTE NM HYD	100.C	-	8	.00028	.82	.036	2.37805	1.500	4.552	PER IMP= 90.00
COMPUTE NM HYD	100.D	-	9	.00030	.88	.038	2.37805	1.500	4.552	PER IMP= 90.00
COMPUTE NM HYD	100.E	-	10	.00006	.17	.007	2.06052	1.500	4.418	PER IMP= 70.00
COMPUTE NM HYD	100.F	-	11	.00011	.29	.011	1.99055	1.500	4.269	PER IMP= 65.00
COMPUTE NM HYD	100.G	-	12	.00011	.32	.014	2.28884	1.500	4.539	PER IMP= 85.00
COMPUTE NM HYD	100.H	-	13	.00015	.40	.016	2.05907	1.500	4.123	PER IMP= 75.00
COMPUTE NM HYD	100.I	-	14	.00014	.41	.018	2.37805	1.500	4.595	PER IMP= 90.00
COMPUTE NM HYD	100.J	-	15	.00267	6.78	.281	1.97230	1.500	3.973	PER IMP= 65.00
COMPUTE NM HYD	100.K	-	16	.00258	4.84	.153	1.11120	1.500	2.928	PER IMP= 10.00
ADD HYD	101.20	1& 2	17	.00149	3.77	.153	1.92580	1.500	3.950	
ADD HYD	101.20	17& 3	18	.00158	4.02	.164	1.94660	1.500	3.989	
ADD HYD	101.20	18& 4	19	.00166	4.29	.175	1.96906	1.500	4.028	
ADD HYD	101.20	19& 5	20	.00172	4.46	.181	1.97438	1.500	4.053	
ADD HYD	101.20	20& 6	21	.00198	5.21	.213	2.01600	1.500	4.107	
ADD HYD	101.20	21& 7	22	.00212	5.62	.231	2.03996	1.500	4.139	
ADD HYD	101.20	22& 8	23	.00240	6.44	.266	2.07928	1.500	4.187	
ADD HYD	101.20	23& 9	24	.00271	7.32	.305	2.11257	1.500	4.228	
ADD HYD	101.20	24&10	25	.00277	7.49	.310	2.10408	1.500	4.232	
ADD HYD	101.20	25&11	26	.00287	7.78	.321	2.09540	1.500	4.234	
ADD HYD	101.20	26&12	27	.00298	8.10	.334	2.10166	1.500	4.245	
ADD HYD	101.20	27&13	28	.00313	8.50	.351	2.09957	1.500	4.239	
ADD HYD	101.20	28&14	29	.00327	8.91	.369	2.11151	1.500	4.254	
ADD HYD	101.20	29&15	30	.00594	15.69	.649	2.04895	1.500	4.128	
ADD HYD	101.20	30&16	31	.00852	20.53	.802	1.76474	1.500	3.764	
ROUTE RESERVOIR	501.00	31	32	.00852	.30	.569	1.25163	2.750	.054	AC-FT= .654
COMPUTE NM HYD	100.D	-	1	.00100	2.58	.108	2.02623	1.500	4.028	PER IMP= 70.00
COMPUTE NM HYD	100.E	-	2	.00176	4.57	.192	2.04282	1.500	4.054	PER IMP= 70.00
COMPUTE NM HYD	100.F	-	3	.00127	3.46	.149	2.20093	1.500	4.254	PER IMP= 80.00
COMPUTE NM HYD	100.G	-	4	.00024	.59	.025	1.94276	1.500	3.860	PER IMP= 70.00
ROUTE RESERVOIR	501.D	1	33	.00100	.20	.108	2.02595	2.200	.315	AC-FT= .069
ROUTE RESERVOIR	501.E	2	6	.00176	.11	.192	2.04263	2.600	.096	AC-FT= .145
ROUTE RESERVOIR	501.F	3	7	.00127	.10	.149	2.20066	2.500	.128	AC-FT= .109
ADD HYD	101.20	6& 7	34	.00303	.21	.341	2.10882	2.550	.109	
COMPUTE NM HYD	100.10	-	1	.00403	10.81	.465	2.16603	1.500	4.190	PER IMP= 78.18
COMPUTE NM HYD	100.20	-	2	.00219	6.02	.265	2.27364	1.500	4.304	PER IMP= 86.00
COMPUTE NM HYD	100.30	-	3	.00163	4.49	.197	2.27364	1.500	4.309	PER IMP= 86.00

```
*****************************************************************
*                                                               *
*                 TRACT 3 RENAISSANCE CENTER                    *
*                                                               *
*             PROPOSED CONDITIONS (100-YEAR STORM)              *
*                                                               *
*****************************************************************
*
START                TIME=0.0 HR
*
RAINFALL             TYPE=2 RAIN QUARTER=0.0 IN
                     RAIN ONE=2.01 IN RAIN SIX=2.35 IN
                     RAIN DAY=2.75 IN DT=0.05 HR
*
*****************************************************************
*                          DEVELOPED CONDITION                  *
*****************************************************************
*******************
* FEDEX GROUND
*******************

* BASIN A1

COMPUTE NM HYD       ID=1 HYD NO=100.A1 AREA=0.00141 SQ MI
                     PER A=0 PER B=15.00 PER C=25.00 PER D=60.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=1 CODE=1

* BASIN A2

COMPUTE NM HYD       ID=2 HYD NO=100.A2 AREA=0.000083 SQ MI
                     PER A=0 PER B=0.00 PER C=5.00 PER D=95.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=2 CODE=1

* BASIN A3

COMPUTE NM HYD       ID=3 HYD NO=100.A3 AREA=0.000082 SQ MI
                     PER A=0 PER B=0.00 PER C=5.00 PER D=95.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=3 CODE=1

* BASIN A4

COMPUTE NM HYD       ID=4 HYD NO=100.A4 AREA=0.000089 SQ MI
                     PER A=0 PER B=0.00 PER C=5.00 PER D=95.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=4 CODE=1

* BASIN A5

COMPUTE NM HYD       ID=5 HYD NO=100.A5 AREA=0.000055 SQ MI
                     PER A=0 PER B=0.00 PER C=5.00 PER D=95.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=5 CODE=1

* BASIN B

COMPUTE NM HYD       ID=6 HYD NO=100.B AREA=0.000263 SQ MI
                     PER A=0 PER B=5.00 PER C=10.00 PER D=85.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=6 CODE=1
*
```

```
*BASIN B1

COMPUTE NM HYD      ID=7 HYD NO=100.B1 AREA=0.000141 SQ MI
                    PER A=0 PER B=0.00 PER C=10.00 PER D=90.00
                    TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD           ID=7 CODE=1

*BASIN C

COMPUTE NM HYD      ID=8 HYD NO=100.C AREA=0.000280 SQ MI
                    PER A=0 PER B=0.00 PER C=10.00 PER D=90.00
                    TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD           ID=8 CODE=1

*BASIN D

COMPUTE NM HYD      ID=9 HYD NO=100.D AREA=0.000302 SQ MI
                    PER A=0 PER B=0.00 PER C=10.00 PER D=90.00
                    TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD           ID=9 CODE=1

*BASIN E

COMPUTE NM HYD      ID=10 HYD NO=100.E AREA=0.000060 SQ MI
                    PER A=0 PER B=10.00 PER C=20.00 PER D=70.00
                    TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD           ID=10 CODE=1
*
*BASIN F

COMPUTE NM HYD      ID=11 HYD NO=100.F AREA=0.000106 SQ MI
                    PER A=0 PER B=10.00 PER C=25.00 PER D=65.00
                    TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD           ID=11 CODE=1

*BASIN G

COMPUTE NM HYD      ID=12 HYD NO=100.G AREA=0.000111 SQ MI
                    PER A=0 PER B=5.00 PER C=10.00 PER D=85.00
                    TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD           ID=12 CODE=1

*BASIN H

COMPUTE NM HYD      ID=13 HYD NO=100.H AREA=0.000150 SQ MI
                    PER A=20 PER B=0.00 PER C=10.00 PER D=90.00
                    TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD           ID=13 CODE=1

* BASIN I

COMPUTE NM HYD      ID=14 HYD NO=100.I AREA=0.000141 SQ MI
                    PER A=0 PER B=0.00 PER C=10.00 PER D=90.00
                    TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD           ID=14 CODE=1

* BASIN J

COMPUTE NM HYD      ID=15 HYD NO=100.J AREA=0.002667 SQ MI
                    PER A=0 PER B=15.00 PER C=20.00 PER D=65.00
                    TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD           ID=15 CODE=1
```

```
* BASIN K

COMPUTE NM HYD       ID=16 HYD NO=100.K AREA=0.002583 SQ MI
                     PER A=0 PER B=40.00 PER C=50.00 PER D=10.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=16 CODE=1

* ADD ALL FEDEX GROUND BASINS

ADD HYD                 ID=17 HYD=101.2 ID I=1 II=2
ADD HYD                 ID=18 HYD=101.2 ID I=17 II=3
ADD HYD                 ID=19 HYD=101.2 ID I=18 II=4
ADD HYD                 ID=20 HYD=101.2 ID I=19 II=5
ADD HYD                 ID=21 HYD=101.2 ID I=20 II=6
ADD HYD                 ID=22 HYD=101.2 ID I=21 II=7
ADD HYD                 ID=23 HYD=101.2 ID I=22 II=8
ADD HYD                 ID=24 HYD=101.2 ID I=23 II=9
ADD HYD                 ID=25 HYD=101.2 ID I=24 II=10
ADD HYD                 ID=26 HYD=101.2 ID I=25 II=11
ADD HYD                 ID=27 HYD=101.2 ID I=26 II=12
ADD HYD                 ID=28 HYD=101.2 ID I=27 II=13
ADD HYD                 ID=29 HYD=101.2 ID I=28 II=14
ADD HYD                 ID=30 HYD=101.2 ID I=29 II=15
ADD HYD                 ID=31 HYD=101.2 ID I=30 II=16
PRINT HYD               ID=31 CODE=1


* FEDEX GROUND DETENTION POND*

ROUTE RESERVOIR      ID=32 HYD NO=501.00 INFLOW ID=31 CODE=24
                     OUTFLOW(CFS)       STORAGE(AC-FT)  ELEVATION(FT)
                        0.0000            0.0000          37.00
                       00.1447            0.1771          37.50
                       00.2211            0.3621          38.00
                       00.2772            0.5628          38.50
                       00.3236            0.7793          39.00
PRINT HYD            ID=32 CODE=1

*******************
* RUSS HARRISON
*******************

* BASIN D

COMPUTE NM HYD       ID=1 HYD NO=100.D AREA=0.0010 SQ MI
                     PER A=0 PER B=20.00 PER C=10.00 PER D=70.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=1 CODE=1

* BASIN E

COMPUTE NM HYD       ID=2 HYD NO=100.E AREA=0.00176 SQ MI
                     PER A=0 PER B=15.00 PER C=15.00 PER D=70.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=2 CODE=1

* BASIN F

COMPUTE NM HYD       ID=3 HYD NO=100.F AREA=0.00127 SQ MI
                     PER A=0 PER B=10.00 PER C=10.00 PER D=80.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=3 CODE=1
*
```

```
* BASIN G

COMPUTE NM HYD        ID=4 HYD NO=100.G AREA=0.00024 SQ MI
                      PER A=25 PER B=0.00 PER C=5.00 PER D=70.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=4 CODE=1

* INLET D

ROUTE RESERVOIR       ID=33 HYD NO=501.D INFLOW ID=1 CODE=24
                      OUTFLOW(CFS)       STORAGE(AC-FT)  ELEVATION(FT)
                        0.00               0.0000          33.50
                       00.1633             0.0004          36.00
                       00.1715             0.0032          36.25
                       00.1779             0.0090          36.45
                       00.1840             0.0183          36.65
                       00.1899             0.0310          36.85
                       00.1956             0.0470          37.05
                       00.2011             0.0666          37.25
                       00.2079             0.0957          37.50
PRINT HYD             ID=33 CODE=1

 INLET E

ROUTE RESERVOIR       ID=6 HYD NO=501.E INFLOW ID=2 CODE=24
                      OUTFLOW(CFS)       STORAGE(AC-FT)  ELEVATION(FT)
                        0.00               0.0000          40.90
                       00.0768             0.0003          42.25
                       00.0822             0.0035          42.50
                       00.0864             0.0107          42.70
                       00.0903             0.0219          42.90
                       00.0941             0.0372          43.10
                       00.0987             0.0621          43.35
                       00.1030             0.0933          43.60
                       00.1068             0.1277          43.83
                       00.1108             0.1712          44.08
PRINT HYD             ID=6 CODE=1

 INLET F
ROUTE RESERVOIR       ID=7 HYD NO=501.F INFLOW ID=3 CODE=24
                      OUTFLOW(CFS)       STORAGE(AC-FT)  ELEVATION(FT)
                        0.00               0.0000          41.33
                        0.0848             0.0004          43.50
                        0.0890             0.0050          43.75
                        0.0923             0.0153          43.95
                        0.0954             0.0315          44.15
                        0.0984             0.0536          44.35
                        0.1014             0.0815          44.55
                        0.1042             0.1154          44.75
                        0.1177             0.1659          45.00
PRINT HYD             ID=7 CODE=1


* ADD INLETS E AND F

ADD HYD               ID=34 HYD=101.2 ID I=6 II=7
PRINT HYD             ID=34 CODE=1

************************
* GENERAL TECHNOLOGY
************************

* BASIN 1
```

```
COMPUTE NM HYD       ID=1 HYD NO=100.1 AREA=0.004029 SQ MI
                     PER A=0 PER B=14.00 PER C=10.00 PER D=86.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=1 CODE=1

* BASIN 2

COMPUTE NM HYD       ID=2 HYD NO=100.2 AREA=0.002186 SQ MI
                     PER A=0 PER B=14.00 PER C=0.00 PER D=86.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=2 CODE=1

* BASIN 3

COMPUTE NM HYD       ID=3 HYD NO=100.3 AREA=0.001627 SQ MI
                     PER A=0 PER B=14.00 PER C=0.00 PER D=86.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=3 CODE=1
*
* BASIN 4

COMPUTE NM HYD       ID=4 HYD NO=100.4 AREA=0.002353 SQ MI
                     PER A=0.0 PER B=14.00 PER C=0.00 PER D=86.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=4 CODE=1

* POND 1

ROUTE RESERVOIR      ID=5 HYD NO=501.1 INFLOW ID=1 CODE=24
                     OUTFLOW(CFS)       STORAGE(AC-FT)  ELEVATION(FT)
                         0.00               0.00000         40.20
                         0.18               0.00046         43.10
                         0.25               0.00092         46.00
                         0.26               0.03732         46.25
                         0.26               0.10466         46.50
                         0.27               0.20295         46.75
                         0.27               0.33218         47.00
                         0.28               0.52098         47.25
                         0.28               0.70977         47.50
PRINT HYD            ID=5 CODE=1

* ADD POND 1 AND BASIN 2

ADD HYD              ID=6 HYD=101.2 ID I=2 II=5
PRINT HYD            ID=6 CODE=1

* POND 2

ROUTE RESERVOIR      ID=7 HYD NO=501.2 INFLOW ID=6 CODE=24
                     OUTFLOW(CFS)       STORAGE(AC-FT)  ELEVATION(FT)
                         0.00               0.00000         37.75
                         0.21               0.00065         41.80
                         0.30               0.00129         45.85
                         0.30               0.02347         46.10
                         0.31               0.08991         46.35
                         0.31               0.20064         46.60
                         0.32               0.35563         46.85
PRINT HYD            ID=7 CODE=1

* ADD POND 2 AND BASIN 3

ADD HYD              ID=8 HYD=101.2 ID I=3 II=7
```

```
PRINT HYD            ID=8 CODE=1

* POND 3

ROUTE RESERVOIR      ID=9 HYD NO=501.F INFLOW ID=8 CODE=24
                     OUTFLOW(CFS)       STORAGE(AC-FT)  ELEVATION(FT)
                        0.00              0.00000         43.50
                        0.25              0.00020         44.75
                        0.36              0.00040         46.00
                        0.38              0.00440         46.25
                        0.40              0.01634         46.50
                        0.42              0.03620         46.75
                        0.43              0.06399         47.00
                        0.45              0.09971         47.25
                        0.47              0.14336         47.50
PRINT HYD            ID=9 CODE=1

* ADD POND 3 AND BASIN 4

ADD HYD              ID=10 HYD=101.2 ID I=4 II=9
PRINT HYD            ID=10 CODE=1

* POND 4

ROUTE RESERVOIR      ID=35 HYD NO=501.4 INFLOW ID=10 CODE=24
                     OUTFLOW(CFS)       STORAGE(AC-FT)  ELEVATION(FT)
                        0.00              0.00000         41.00
                        0.31              0.00017         42.08
                        0.46              0.00034         43.16
                        0.48              0.01435         43.41
                        0.51              0.05628         43.66
                        0.53              0.12614         43.91
                        0.56              0.22394         44.16
                        0.58              0.34966         44.41
                        0.60              0.50331         44.66
PRINT HYD            ID=35 CODE=1


*******************
* SAM'S CLUB
*******************

* BASIN 1

COMPUTE NM HYD       ID=1 HYD NO=100.1 AREA=0.003467 SQ MI
                     PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=1 CODE=1

* BASIN 2

COMPUTE NM HYD       ID=2 HYD NO=100.2 AREA=0.003867 SQ MI
                     PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=2 CODE=1


* BASIN 3

COMPUTE NM HYD       ID=3 HYD NO=100.3 AREA=0.003037 SQ MI
                     PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=3 CODE=1
```

```
* BASIN 4

COMPUTE NM HYD       ID=4 HYD NO=100.4 AREA=0.004847 SQ MI
                     PER A=0 PER B=0.00 PER C=0.00 PER D=100.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=4 CODE=1


* BASIN 5

COMPUTE NM HYD       ID=5 HYD NO=100.5 AREA=0.001208 SQ MI
                     PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=5 CODE=1


* BASIN 6

COMPUTE NM HYD       ID=6 HYD NO=100.6 AREA=0.002760 SQ MI
                     PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=6 CODE=1


* BASIN 7

COMPUTE NM HYD       ID=7 HYD NO=100.7 AREA=0.001241 SQ MI
                     PER A=0 PER B=100.00 PER C=0.00 PER D=0.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=7 CODE=1

* BASIN 8

COMPUTE NM HYD       ID=8 HYD NO=100.8 AREA=0.000276 SQ MI
                     PER A=0 PER B=0.00 PER C=0.00 PER D=100.00
                     TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=8 CODE=1

* POND 1

ROUTE RESERVOIR      ID=9 HYD NO=501.1 INFLOW ID=1 CODE=24
                     OUTFLOW(CFS)      STORAGE(AC-FT)  ELEVATION(FT)
                         0.0000            0.0000          39.54
                         3.2184            0.0006          43.54
                         3.3050            0.0063          43.74
                         3.3894            0.0232          43.94
                         3.4717            0.0514          44.14
                         3.5522            0.0909          44.34
                         3.6308            0.1416          44.54
                         3.6463            0.1534          44.58
PRINT HYD            ID=9 CODE=1

* POND 2

ROUTE RESERVOIR      ID=10 HYD NO=501.2 INFLOW ID=2 CODE=24
                     OUTFLOW(CFS)      STORAGE(AC-FT)  ELEVATION(FT)
                         0.0000           0.0000          37.00
                         0.4653           0.0006          41.00
                         0.4771           0.0204          41.20
                         0.4887           0.0798          41.40
                         0.5000           0.1787          41.60
```

```
                        0.5110          0.3172          41.80
                        0.5127          0.3414          41.83
PRINT HYD             ID=10 CODE=1

* POND 3

ROUTE RESERVOIR       ID=11 HYD NO=501.3 INFLOW ID=3 CODE=24
                      OUTFLOW(CFS)       STORAGE(AC-FT)  ELEVATION(FT)
                        0.0000          0.0000          35.27
                        3.6229          0.0006          39.27
                        3.7210          0.0026          39.47
                        3.8165          0.0085          39.67
                        3.9097          0.0184          39.87
                        4.0007          0.0322          40.07
                        4.0897          0.0499          40.27
                        4.1682          0.0692          40.45
PRINT HYD             ID=11 CODE=1

ADD HYD               ID=12 HYD=200.4 ID I=4 II=5
ADD HYD               ID=13 HYD=200.6 ID I=12 II=6
ADD HYD               ID=14 HYD=200.7 ID I=13 II=7
ADD HYD               ID=15 HYD=200.8 ID I=14 II=8
ADD HYD               ID=16 HYD=200.6 ID I=15 II=34
ADD HYD               ID=17 HYD=200.7 ID I=16 II=35
PRINT HYD             ID=17 CODE=1

* POND 4

ROUTE RESERVOIR       ID=18 HYD NO=501.4 INFLOW ID=17 CODE=24
                      OUTFLOW(CFS)       STORAGE(AC-FT)  ELEVATION(FT)
                        0.0000          0.0000          25.40
                        1.0658          0.0010          32.00
                        1.1064          0.0519          32.50
                        1.1456          0.1215          33.00
                        1.1835          0.2096          33.50
                        1.2202          0.3163          34.00
                        1.2559          0.4416          34.50
                        1.2905          0.5855          35.00
                        1.3243          0.7481          35.50
                        1.3572          0.9292          36.00
                        1.3894          1.1289          36.50
                        1.4208          1.3473         37.00

PRINT HYD             ID=18 CODE=1

ADD HYD               ID=19 HYD=200.4 ID I=9 II=10
ADD HYD               ID=20 HYD=200.6 ID I=19 II=11
ADD HYD               ID=21 HYD 200.7 ID I=20 II=18
PRINT HYD             ID=21 CODE=1

*******************
* OFFICE MAX
*******************

* BASIN 14

COMPUTE NM HYD        ID=1 HYD NO=100.14 AREA=0.000319 SQ MI
                      PER A=0 PER B=10.00 PER C=0.00 PER D=90.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=1 CODE=1


* BASIN 16
```

```
COMPUTE NM HYD        ID=2 HYD NO=100.16 AREA=0.002779 SQ MI
                      PER A=0 PER B=10.00 PER C=0.00 PER D=90.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=2 CODE=1

* BASIN 17

COMPUTE NM HYD        ID=3 HYD NO=100.17 AREA=0.002319 SQ MI
                      PER A=0 PER B=10.00 PER C=0.00 PER D=90.00
                      TP=-.1333 HR MASS RAINFALL=-1
PRINT HYD             ID=3 CODE=1

* POND 14

ROUTE RESERVOIR       ID=4 HYD NO=501.14 INFLOW ID=1 CODE=24
                      OUTFLOW(CFS)       STORAGE(AC-FT)  ELEVATION(FT)
                          0.00               0.00000          28.00
                          0.44               0.00020          29.25
                          0.64               0.00040          30.50
                          0.69               0.00156          30.90
                          0.74               0.00491          31.30
                          0.79               0.01045          31.70
                          0.83               0.01818          32.10
                          0.87               0.02811          32.50
PRINT HYD             ID=4 CODE=1

ADD HYD               ID=5 HYD=200.4 ID I=32 II=2
ADD HYD               ID=6 HYD=200.4 ID I=5 II=4
ADD HYD               ID=7 HYD=200.4 ID I=6 II=33
PRINT HYD             ID=7 CODE=1

* POND 16

ROUTE RESERVOIR       ID=8 HYD NO=501.16 INFLOW ID=7 CODE=24
                      OUTFLOW(CFS)       STORAGE(AC-FT)  ELEVATION(FT)
                          0.00               0.0000           26.37
                          3.32               0.00053          29.69
                          6.63               0.00106          33.00
                          7.03               0.02208          33.40
                          7.43               0.08504          33.80
                          7.63               0.13224          34.00
PRINT HYD             ID=8 CODE=1

ADD HYD               ID=22 HYD 200.7 ID I=21 II=3
ADD HYD               ID=23 HYD=200.8 ID I=22 II=8
PRINT HYD             ID=23 CODE=1

* POND 17

ROUTE RESERVOIR       ID=24 HYD NO=501.17 INFLOW ID=23 CODE=24
                      OUTFLOW(CFS)       STORAGE(AC-FT)  ELEVATION(FT)
                          0.00          0.0000           23.30
                          2.75          0.0014           32.00
                          2.80          0.0469           32.30
                          2.84          0.1834           32.60
                          2.89          0.4110           32.90
                          2.94          0.7295           33.20
                          2.98          1.1391           33.50
PRINT HYD             ID=24 CODE=1

FINISH
```

```
AHYMO PROGRAM (AHYMO_97) -                          - Version:  1997.02a
     RUN DATE (MON/DAY/YR) = 12/22/2004
     START TIME (HR:MIN:SEC) = 07:40:48     USER NO.= AHYMO-I-9702a0100011K-SH
     INPUT FILE = C:\INPUT.TXT

*****************************************************************
*                                                               *
*                 TRACT 3 RENAISSANCE CENTER                    *
*                                                                       *
*              PROPOSED CONDITIONS (100-YEAR STORM)             *
*                                                               *
*****************************************************************
*
START                TIME=0.0 HR
*
RAINFALL             TYPE=2 RAIN QUARTER=0.0 IN
                     RAIN ONE=2.01 IN RAIN SIX=2.35 IN
                     RAIN DAY=2.75 IN DT=0.05 HR

                COMPUTED 24-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.
                DT =    .050000 HOURS       END TIME =    24.000000 HOURS
                   .0000   .0024   .0049   .0075   .0102   .0130   .0158
                   .0188   .0219   .0252   .0286   .0321   .0358   .0397
                   .0439   .0482   .0529   .0578   .0631   .0689   .0751
                   .0836   .0930   .1201   .1842   .2944   .4649   .7103
                  1.0460  1.3107  1.4303  1.5302  1.6176  1.6959  1.7667
                  1.8313  1.8906  1.9452  1.9955  2.0421  2.0851  2.0946
                  2.1034  2.1115  2.1191  2.1262  2.1330  2.1394  2.1455
                  2.1513  2.1569  2.1622  2.1673  2.1723  2.1771  2.1817
                  2.1862  2.1905  2.1948  2.1989  2.2028  2.2067  2.2105
                  2.2142  2.2178  2.2213  2.2248  2.2282  2.2315  2.2347
                  2.2379  2.2410  2.2440  2.2470  2.2500  2.2529  2.2557
                  2.2585  2.2613  2.2640  2.2666  2.2693  2.2719  2.2744
                  2.2769  2.2794  2.2818  2.2842  2.2866  2.2889  2.2913
                  2.2935  2.2958  2.2980  2.3002  2.3024  2.3046  2.3067
                  2.3088  2.3109  2.3129  2.3150  2.3170  2.3190  2.3209
                  2.3229  2.3248  2.3267  2.3286  2.3305  2.3323  2.3342
                  2.3360  2.3378  2.3396  2.3414  2.3431  2.3449  2.3466
                  2.3483  2.3500  2.3517  2.3534  2.3551  2.3569  2.3586
                  2.3602  2.3619  2.3636  2.3653  2.3669  2.3686  2.3703
                  2.3719  2.3736  2.3752  2.3768  2.3785  2.3801  2.3817
                  2.3833  2.3849  2.3865  2.3881  2.3897  2.3913  2.3929
                  2.3944  2.3960  2.3976  2.3991  2.4007  2.4022  2.4038
                  2.4053  2.4068  2.4084  2.4099  2.4114  2.4129  2.4144
                  2.4159  2.4174  2.4189  2.4204  2.4219  2.4234  2.4248
                  2.4263  2.4278  2.4292  2.4307  2.4322  2.4336  2.4350
                  2.4365  2.4379  2.4394  2.4408  2.4422  2.4436  2.4450
                  2.4464  2.4478  2.4493  2.4506  2.4520  2.4534  2.4548
                  2.4562  2.4576  2.4589  2.4603  2.4617  2.4630  2.4644
                  2.4658  2.4671  2.4685  2.4698  2.4711  2.4725  2.4738
                  2.4751  2.4765  2.4778  2.4791  2.4804  2.4817  2.4830
                  2.4843  2.4856  2.4869  2.4882  2.4895  2.4908  2.4921
                  2.4934  2.4946  2.4959  2.4972  2.4984  2.4997  2.5010
                  2.5022  2.5035  2.5047  2.5060  2.5072  2.5085  2.5097
                  2.5109  2.5122  2.5134  2.5146  2.5158  2.5170  2.5183
                  2.5195  2.5207  2.5219  2.5231  2.5243  2.5255  2.5267
                  2.5279  2.5291  2.5303  2.5314  2.5326  2.5338  2.5350
                  2.5361  2.5373  2.5385  2.5396  2.5408  2.5420  2.5431
                  2.5443  2.5454  2.5466  2.5477  2.5488  2.5500  2.5511
                  2.5523  2.5534  2.5545  2.5556  2.5568  2.5579  2.5590
                  2.5601  2.5612  2.5623  2.5635  2.5646  2.5657  2.5668
                  2.5679  2.5690  2.5701  2.5711  2.5722  2.5733  2.5744
                  2.5755  2.5766  2.5776  2.5787  2.5798  2.5809  2.5819
                  2.5830  2.5841  2.5851  2.5862  2.5872  2.5883  2.5893
                  2.5904  2.5914  2.5925  2.5935  2.5946  2.5956  2.5966
                  2.5977  2.5987  2.5997  2.6008  2.6018  2.6028  2.6038
                  2.6049  2.6059  2.6069  2.6079  2.6089  2.6099  2.6109
                  2.6119  2.6129  2.6139  2.6149  2.6159  2.6169  2.6179
                  2.6189  2.6199  2.6209  2.6219  2.6229  2.6238  2.6248
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2.6258  2.6268  2.6278  2.6287  2.6297  2.6307  2.6316
2.6326  2.6336  2.6345  2.6355  2.6364  2.6374  2.6384
2.6393  2.6403  2.6412  2.6421  2.6431  2.6440  2.6450
2.6459  2.6469  2.6478  2.6487  2.6497  2.6506  2.6515
2.6524  2.6534  2.6543  2.6552  2.6561  2.6571  2.6580
2.6589  2.6598  2.6607  2.6616  2.6625  2.6634  2.6644
2.6653  2.6662  2.6671  2.6680  2.6689  2.6698  2.6707
2.6715  2.6724  2.6733  2.6742  2.6751  2.6760  2.6769
2.6778  2.6786  2.6795  2.6804  2.6813  2.6821  2.6830
2.6839  2.6848  2.6856  2.6865  2.6874  2.6882  2.6891
2.6900  2.6908  2.6917  2.6925  2.6934  2.6942  2.6951
2.6959  2.6968  2.6976  2.6985  2.6993  2.7002  2.7010
2.7019  2.7027  2.7035  2.7044  2.7052  2.7061  2.7069
2.7077  2.7085  2.7094  2.7102  2.7110  2.7119  2.7127
2.7135  2.7143  2.7151  2.7160  2.7168  2.7176  2.7184
2.7192  2.7200  2.7209  2.7217  2.7225  2.7233  2.7241
2.7249  2.7257  2.7265  2.7273  2.7281  2.7289  2.7297
2.7305  2.7313  2.7321  2.7329  2.7337  2.7344  2.7352
2.7360  2.7368  2.7376  2.7384  2.7392  2.7399  2.7407
2.7415  2.7423  2.7431  2.7438  2.7446  2.7454  2.7462
2.7469  2.7477  2.7485  2.7492  2.7500
```

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*
*****************************************************************
*                          DEVELOPED CONDITION                  *
*****************************************************************
*******************
* FEDEX GROUND
*******************

* BASIN A1

COMPUTE NM HYD       ID=1 HYD NO=100.A1 AREA=0.00141 SQ MI
                     PER A=0 PER B=15.00 PER C=25.00 PER D=60.00
                     TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   3.3401    CFS   UNIT VOLUME =    .9959       B =   526.28      P60 = 2.0100
     AREA =      .000846 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


     K =   .116687HR    TP =   .133300HR    K/TP RATIO =   .875368     SHAPE CONSTANT, N =  4.056481
     UNIT PEAK =   1.5186    CFS   UNIT VOLUME =    .9932       B =   358.92      P60 = 2.0100
     AREA =      .000564 SQ MI    IA =    .40625 INCHES    INF =    .98750 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD            ID=1 CODE=1

                                   HYDROGRAPH FROM AREA 100.A1


    RUNOFF VOLUME =     1.90220 INCHES     =        .1430 ACRE-FEET
    PEAK DISCHARGE RATE =       3.52 CFS  AT   1.500 HOURS   BASIN AREA =   .0014 SQ. MI.


* BASIN A2

COMPUTE NM HYD       ID=2 HYD NO=100.A2 AREA=0.000083 SQ MI
                     PER A=0 PER B=0.00 PER C=5.00 PER D=95.00
                     TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   .31130    CFS   UNIT VOLUME =    .9674       B =   526.28      P60 = 2.0100
     AREA =      .000079 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000
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```
K =   .107446HR    TP =   .133300HR    K/TP RATIO =   .806046     SHAPE CONSTANT, N =  4.440701
UNIT PEAK =   .11941E-01CFS   UNIT VOLUME =    .8888       B =   383.55      P60 = 2.0100
AREA =      .000004 SQ MI    IA =    .35000 INCHES    INF =    .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD           ID=2 CODE=1

                                    HYDROGRAPH FROM AREA 100.A2


RUNOFF VOLUME =     2.44760 INCHES     =        .0108 ACRE-FEET
PEAK DISCHARGE RATE =        .25 CFS  AT   1.500 HOURS   BASIN AREA =   .0001 SQ. MI.


* BASIN A3

COMPUTE NM HYD      ID=3 HYD NO=100.A3 AREA=0.000082 SQ MI
                    PER A=0 PER B=0.00 PER C=5.00 PER D=95.00
                    TP=-.1333 HR MASS RAINFALL=-1

K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
UNIT PEAK =   .30755    CFS   UNIT VOLUME =    .9674       B =   526.28      P60 = 2.0100
AREA =      .000078 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


K =   .107446HR    TP =   .133300HR    K/TP RATIO =   .806046     SHAPE CONSTANT, N =  4.440701
UNIT PEAK =   .11797E-01CFS   UNIT VOLUME =    .8888       B =   383.55      P60 = 2.0100
AREA =      .000004 SQ MI    IA =    .35000 INCHES    INF =    .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD           ID=3 CODE=1

                                    HYDROGRAPH FROM AREA 100.A3


RUNOFF VOLUME =     2.44760 INCHES     =        .0107 ACRE-FEET
PEAK DISCHARGE RATE =        .25 CFS  AT   1.500 HOURS   BASIN AREA =   .0001 SQ. MI.


* BASIN A4

COMPUTE NM HYD      ID=4 HYD NO=100.A4 AREA=0.000089 SQ MI
                    PER A=0 PER B=0.00 PER C=5.00 PER D=95.00
                    TP=-.1333 HR MASS RAINFALL=-1

K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
UNIT PEAK =   .33381    CFS   UNIT VOLUME =    .9674       B =   526.28      P60 = 2.0100
AREA =      .000085 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

K =   .107446HR    TP =   .133300HR    K/TP RATIO =   .806046     SHAPE CONSTANT, N =  4.440701
UNIT PEAK =   .12804E-01CFS   UNIT VOLUME =    .8888       B =   383.55      P60 = 2.0100
AREA =      .000004 SQ MI    IA =    .35000 INCHES    INF =    .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD           ID=4 CODE=1

                                    HYDROGRAPH FROM AREA 100.A4


RUNOFF VOLUME =     2.44760 INCHES     =        .0116 ACRE-FEET
PEAK DISCHARGE RATE =        .27 CFS  AT   1.500 HOURS   BASIN AREA =   .0001 SQ. MI.
```

```
* BASIN A5

COMPUTE NM HYD       ID=5 HYD NO=100.A5 AREA=0.000055 SQ MI
                     PER A=0 PER B=0.00 PER C=5.00 PER D=95.00
                     TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   .20629    CFS   UNIT VOLUME =    .9490       B =   526.28      P60 = 2.0100
     AREA =      .000052 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


     K =   .107446HR    TP =   .133300HR    K/TP RATIO =   .806046     SHAPE CONSTANT, N =  4.440701
     UNIT PEAK =   .79126E-02CFS   UNIT VOLUME =    .8888       B =   383.55      P60 = 2.0100
     AREA =      .000003 SQ MI    IA =    .35000 INCHES    INF =    .83000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD            ID=5 CODE=1

                                        HYDROGRAPH FROM AREA 100.A5


    RUNOFF VOLUME =     2.44760 INCHES     =        .0072 ACRE-FEET
    PEAK DISCHARGE RATE =        .17 CFS  AT   1.500 HOURS   BASIN AREA =   .0001 SQ. MI.


* BASIN B

COMPUTE NM HYD       ID=6 HYD NO=100.B AREA=0.000263 SQ MI
                     PER A=0 PER B=5.00 PER C=10.00 PER D=85.00
                     TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   .88259    CFS   UNIT VOLUME =    .9865       B =   526.28      P60 = 2.0100
     AREA =      .000224 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


     K =   .115660HR    TP =   .133300HR    K/TP RATIO =   .867666     SHAPE CONSTANT, N =  4.095337
     UNIT PEAK =   .10698    CFS   UNIT VOLUME =    .8779       B =   361.48      P60 = 2.0100
     AREA =      .000039 SQ MI    IA =    .40000 INCHES    INF =    .97000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD            ID=6 CODE=1

                                        HYDROGRAPH FROM AREA 100.B


    RUNOFF VOLUME =     2.28884 INCHES     =        .0321 ACRE-FEET
    PEAK DISCHARGE RATE =        .75 CFS  AT   1.500 HOURS   BASIN AREA =   .0003 SQ. MI.


*
*BASIN B1

COMPUTE NM HYD       ID=7 HYD NO=100.B1 AREA=0.000141 SQ MI
                     PER A=0 PER B=0.00 PER C=10.00 PER D=90.00
                     TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   .50101    CFS   UNIT VOLUME =    .9791       B =   526.28      P60 = 2.0100
     AREA =      .000127 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000
```

```
     K =    .107446HR    TP =    .133300HR    K/TP RATIO =    .806046     SHAPE CONSTANT, N =  4.440701
     UNIT PEAK =    .40570E-01CFS   UNIT VOLUME =    .8888       B =   383.55      P60 = 2.0100
     AREA =       .000014 SQ MI    IA =    .35000 INCHES    INF =    .83000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD           ID=7 CODE=1

                                        HYDROGRAPH FROM AREA 100.B1


    RUNOFF VOLUME =     2.37805 INCHES     =        .0179 ACRE-FEET
    PEAK DISCHARGE RATE =        .41 CFS  AT   1.500 HOURS   BASIN AREA =   .0001 SQ. MI.


*BASIN C

COMPUTE NM HYD      ID=8 HYD NO=100.C AREA=0.000280 SQ MI
                    PER A=0 PER B=0.00 PER C=10.00 PER D=90.00
                    TP=-.1333 HR MASS RAINFALL=-1

     K =    .072649HR    TP =    .133300HR    K/TP RATIO =    .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =    .99491    CFS   UNIT VOLUME =    .9891       B =   526.28      P60 = 2.0100
     AREA =       .000252 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


     K =    .107446HR    TP =    .133300HR    K/TP RATIO =    .806046     SHAPE CONSTANT, N =  4.440701
     UNIT PEAK =    .80565E-01CFS   UNIT VOLUME =    .8888       B =   383.55      P60 = 2.0100
     AREA =       .000028 SQ MI    IA =    .35000 INCHES    INF =    .83000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD           ID=8 CODE=1

                                        HYDROGRAPH FROM AREA 100.C


    RUNOFF VOLUME =     2.37805 INCHES     =        .0355 ACRE-FEET
    PEAK DISCHARGE RATE =        .82 CFS  AT   1.500 HOURS   BASIN AREA =   .0003 SQ. MI.


*BASIN D

COMPUTE NM HYD      ID=9 HYD NO=100.D AREA=0.000302 SQ MI
                    PER A=0 PER B=0.00 PER C=10.00 PER D=90.00
                    TP=-.1333 HR MASS RAINFALL=-1

     K =    .072649HR    TP =    .133300HR    K/TP RATIO =    .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =    1.0731    CFS   UNIT VOLUME =    .9891       B =   526.28      P60 = 2.0100
     AREA =       .000272 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

     K =    .107446HR    TP =    .133300HR    K/TP RATIO =    .806046     SHAPE CONSTANT, N =  4.440701
     UNIT PEAK =    .86895E-01CFS   UNIT VOLUME =    .8888       B =   383.55      P60 = 2.0100
     AREA =       .000030 SQ MI    IA =    .35000 INCHES    INF =    .83000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD           ID=9 CODE=1

                                        HYDROGRAPH FROM AREA 100.D


    RUNOFF VOLUME =     2.37805 INCHES     =        .0383 ACRE-FEET
    PEAK DISCHARGE RATE =        .88 CFS  AT   1.500 HOURS   BASIN AREA =   .0003 SQ. MI.
```

```
*BASIN E

COMPUTE NM HYD       ID=10 HYD NO=100.E AREA=0.000060 SQ MI
                     PER A=0 PER B=10.00 PER C=20.00 PER D=70.00
                     TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   .16582    CFS   UNIT VOLUME =    .9361       B =   526.28      P60 = 2.0100
     AREA =      .000042 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


     K =   .115660HR    TP =   .133300HR    K/TP RATIO =   .867666     SHAPE CONSTANT, N =  4.095337
     UNIT PEAK =   .48812E-01CFS   UNIT VOLUME =    .8779       B =   361.48      P60 = 2.0100
     AREA =      .000018 SQ MI    IA =    .40000 INCHES    INF =    .97000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD            ID=10 CODE=1

                                        HYDROGRAPH FROM AREA 100.E


    RUNOFF VOLUME =     2.06052 INCHES     =        .0066 ACRE-FEET
    PEAK DISCHARGE RATE =        .17 CFS  AT   1.500 HOURS   BASIN AREA =   .0001 SQ. MI.


*
*BASIN F

COMPUTE NM HYD       ID=11 HYD NO=100.F AREA=0.000106 SQ MI
                     PER A=0 PER B=10.00 PER C=25.00 PER D=65.00
                     TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   .27202    CFS   UNIT VOLUME =    .9593       B =   526.28      P60 = 2.0100
     AREA =      .000069 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


     K =   .114486HR    TP =   .133300HR    K/TP RATIO =   .858863     SHAPE CONSTANT, N =  4.140812
     UNIT PEAK =   .10143    CFS   UNIT VOLUME =    .8795       B =   364.45      P60 = 2.0100
     AREA =      .000037 SQ MI    IA =    .39286 INCHES    INF =    .95000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD            ID=11 CODE=1

                                        HYDROGRAPH FROM AREA 100.F


    RUNOFF VOLUME =     1.99055 INCHES     =        .0113 ACRE-FEET
    PEAK DISCHARGE RATE =        .29 CFS  AT   1.500 HOURS   BASIN AREA =   .0001 SQ. MI.


*BASIN G

COMPUTE NM HYD       ID=12 HYD NO=100.G AREA=0.000111 SQ MI
                     PER A=0 PER B=5.00 PER C=10.00 PER D=85.00
                     TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   .37250    CFS   UNIT VOLUME =    .9674       B =   526.28      P60 = 2.0100
     AREA =      .000094 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000
```

```
K =    .115660HR    TP =    .133300HR    K/TP RATIO =    .867666     SHAPE CONSTANT, N =  4.095337
UNIT PEAK =    .45151E-01CFS   UNIT VOLUME =    .8779       B =   361.48      P60 = 2.0100
AREA =       .000017 SQ MI    IA =    .40000 INCHES    INF =    .97000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD            ID=12 CODE=1

                                    HYDROGRAPH FROM AREA 100.G


RUNOFF VOLUME =     2.28884 INCHES     =        .0135 ACRE-FEET
PEAK DISCHARGE RATE =        .32 CFS  AT   1.500 HOURS   BASIN AREA =   .0001 SQ. MI.


*BASIN H

COMPUTE NM HYD       ID=13 HYD NO=100.H AREA=0.000150 SQ MI
                     PER A=20 PER B=0.00 PER C=10.00 PER D=90.00
                     TP=-.1333 HR MASS RAINFALL=-1
*****WARNING*****  SUM OF TREATMENT TYPES DOES NOT EQUAL 100 PERCENT OR TOTAL AREA


K =    .072649HR    TP =    .133300HR    K/TP RATIO =    .545000     SHAPE CONSTANT, N =  7.106420
UNIT PEAK =    .44416    CFS   UNIT VOLUME =    .9739       B =   526.28      P60 = 2.0100
AREA =       .000113 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


K =    .142585HR    TP =    .133300HR    K/TP RATIO =  1.069654     SHAPE CONSTANT, N =  3.301828
UNIT PEAK =    .85963E-01CFS   UNIT VOLUME =    .8769       B =   305.57      P60 = 2.0100
AREA =       .000038 SQ MI    IA =    .55000 INCHES    INF =   1.39000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD            ID=13 CODE=1

                                    HYDROGRAPH FROM AREA 100.H


RUNOFF VOLUME =     2.05907 INCHES     =        .0165 ACRE-FEET
PEAK DISCHARGE RATE =        .40 CFS  AT   1.500 HOURS   BASIN AREA =   .0002 SQ. MI.



* BASIN I

COMPUTE NM HYD       ID=14 HYD NO=100.I AREA=0.000141 SQ MI
                     PER A=0 PER B=0.00 PER C=10.00 PER D=90.00
                     TP=-.1333 HR MASS RAINFALL=-1

K =    .072649HR    TP =    .133300HR    K/TP RATIO =    .545000     SHAPE CONSTANT, N =  7.106420
UNIT PEAK =    .50101    CFS   UNIT VOLUME =    .9791       B =   526.28      P60 = 2.0100
AREA =       .000127 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


K =    .107446HR    TP =    .133300HR    K/TP RATIO =    .806046     SHAPE CONSTANT, N =  4.440701
UNIT PEAK =    .40570E-01CFS   UNIT VOLUME =    .8888       B =   383.55      P60 = 2.0100
AREA =       .000014 SQ MI    IA =    .35000 INCHES    INF =    .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD            ID=14 CODE=1

                                    HYDROGRAPH FROM AREA 100.I


RUNOFF VOLUME =     2.37805 INCHES     =        .0179 ACRE-FEET
PEAK DISCHARGE RATE =        .41 CFS  AT   1.500 HOURS   BASIN AREA =   .0001 SQ. MI.
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```
* BASIN J

COMPUTE NM HYD       ID=15 HYD NO=100.J AREA=0.002667 SQ MI
                     PER A=0 PER B=15.00 PER C=20.00 PER D=65.00
                     TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   6.8441    CFS   UNIT VOLUME =    .9975       B =   526.28      P60 = 2.0100
     AREA =      .001734 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

     K =   .118007HR    TP =   .133300HR    K/TP RATIO =   .885271     SHAPE CONSTANT, N =  4.007784
     UNIT PEAK =   2.4908    CFS   UNIT VOLUME =    .9964       B =   355.69      P60 = 2.0100
     AREA =      .000933 SQ MI    IA =    .41429 INCHES    INF =   1.01000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD            ID=15 CODE=1

                                        HYDROGRAPH FROM AREA 100.J


    RUNOFF VOLUME =     1.97230 INCHES     =        .2805 ACRE-FEET
    PEAK DISCHARGE RATE =       6.78 CFS  AT   1.500 HOURS   BASIN AREA =   .0027 SQ. MI.


* BASIN K

COMPUTE NM HYD       ID=16 HYD NO=100.K AREA=0.002583 SQ MI
                     PER A=0 PER B=40.00 PER C=50.00 PER D=10.00
                     TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   1.0198    CFS   UNIT VOLUME =    .9891       B =   526.28      P60 = 2.0100
     AREA =      .000258 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


     K =   .118398HR    TP =   .133300HR    K/TP RATIO =   .888206     SHAPE CONSTANT, N =  3.993617
     UNIT PEAK =   6.1866    CFS   UNIT VOLUME =    .9991       B =   354.74      P60 = 2.0100
     AREA =      .002325 SQ MI    IA =    .41667 INCHES    INF =   1.01667 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD            ID=16 CODE=1

                                        HYDROGRAPH FROM AREA 100.K


    RUNOFF VOLUME =     1.11120 INCHES     =        .1531 ACRE-FEET
    PEAK DISCHARGE RATE =       4.84 CFS  AT   1.500 HOURS   BASIN AREA =   .0026 SQ. MI.


* ADD ALL FEDEX GROUND BASINS

ADD HYD                  ID=17 HYD=101.2 ID I=1 II=2
ADD HYD                  ID=18 HYD=101.2 ID I=17 II=3
ADD HYD                  ID=19 HYD=101.2 ID I=18 II=4
ADD HYD                  ID=20 HYD=101.2 ID I=19 II=5
ADD HYD                  ID=21 HYD=101.2 ID I=20 II=6
ADD HYD                  ID=22 HYD=101.2 ID I=21 II=7
ADD HYD                  ID=23 HYD=101.2 ID I=22 II=8
ADD HYD                  ID=24 HYD=101.2 ID I=23 II=9
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ADD HYD                ID=25 HYD=101.2 ID I=24 II=10
ADD HYD                ID=26 HYD=101.2 ID I=25 II=11
ADD HYD                ID=27 HYD=101.2 ID I=26 II=12
ADD HYD                ID=28 HYD=101.2 ID I=27 II=13
ADD HYD                ID=29 HYD=101.2 ID I=28 II=14
ADD HYD                ID=30 HYD=101.2 ID I=29 II=15
ADD HYD                ID=31 HYD=101.2 ID I=30 II=16
PRINT HYD              ID=31 CODE=1

                                PARTIAL HYDROGRAPH   101.20

    RUNOFF VOLUME =     1.76474 INCHES     =        .8022 ACRE-FEET
    PEAK DISCHARGE RATE =      20.53 CFS  AT   1.500 HOURS   BASIN AREA =   .0085 SQ. MI.


* FEDEX GROUND DETENTION POND*

ROUTE RESERVOIR     ID=32 HYD NO=501.00 INFLOW ID=31 CODE=24
                    OUTFLOW(CFS)      STORAGE(AC-FT)  ELEVATION(FT)
                        0.0000           0.0000          37.00
                       00.1447           0.1771          37.50
                       00.2211           0.3621          38.00
                       00.2772           0.5628          38.50
                       00.3236           0.7793          39.00

  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *

    TIME       INFLOW    ELEV      VOLUME    OUTFLOW
    (HRS)      (CFS)     (FEET)    (AC-FT)   (CFS)

     .00        .00     37.00       .000       .00
    1.20        .39     37.00       .001       .00
    2.40        .71     38.70       .649       .30
    3.60        .09     38.69       .643       .29
    4.80        .08     38.64       .622       .29
    6.00        .10     38.59       .602       .29
    7.20        .09     38.55       .583       .28
    8.40        .08     38.50       .564       .28
    9.60        .08     38.46       .545       .27
   10.80        .07     38.41       .526       .27
   12.00        .07     38.36       .507       .26
   13.20        .06     38.31       .488       .26
   14.40        .06     38.27       .469       .25
   15.60        .06     38.22       .450       .25
   16.80        .05     38.17       .431       .24
   18.00        .05     38.13       .413       .24
   19.20        .05     38.08       .394       .23
   20.40        .05     38.04       .376       .23
   21.60        .04     37.99       .359       .22
   22.80        .04     37.94       .341       .21
   24.00        .04     37.90       .325       .21
   25.20        .00     37.85       .305       .20
   26.40        .00     37.79       .286       .19
   27.60        .00     37.74       .268       .18
   28.80        .00     37.70       .250       .17
 PEAK DISCHARGE =          .297 CFS - PEAK OCCURS AT HOUR    2.75
 MAXIMUM WATER SURFACE ELEVATION =       38.710
 MAXIMUM STORAGE =          .6538 AC-FT      INCREMENTAL TIME=     .050000HRS

PRINT HYD           ID=32 CODE=1

                                OUTFLOW HYDROGRAPH RESERVOIR   501.00

    RUNOFF VOLUME =     1.25163 INCHES     =        .5689 ACRE-FEET
    PEAK DISCHARGE RATE =        .30 CFS  AT   2.750 HOURS   BASIN AREA =   .0085 SQ. MI.
```

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*******************
* RUSS HARRISON
*******************

* BASIN D

COMPUTE NM HYD       ID=1 HYD NO=100.D AREA=0.0010 SQ MI
                     PER A=0 PER B=20.00 PER C=10.00 PER D=70.00
                     TP=-.1333 HR MASS RAINFALL=-1

     K =    .072649HR    TP =    .133300HR    K/TP RATIO =    .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   2.7636    CFS   UNIT VOLUME =    .9951       B =   526.28      P60 = 2.0100
     AREA =       .000700 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


     K =    .123874HR    TP =    .133300HR    K/TP RATIO =    .929285     SHAPE CONSTANT, N =  3.807024
     UNIT PEAK =   .76990    CFS   UNIT VOLUME =    .9835       B =   342.09      P60 = 2.0100
     AREA =       .000300 SQ MI    IA =    .45000 INCHES    INF =   1.11000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD            ID=1 CODE=1

                                   HYDROGRAPH FROM AREA 100.D


    RUNOFF VOLUME =     2.02623 INCHES     =        .1081 ACRE-FEET
    PEAK DISCHARGE RATE =       2.58 CFS  AT   1.500 HOURS   BASIN AREA =   .0010 SQ. MI.


* BASIN E

COMPUTE NM HYD       ID=2 HYD NO=100.E AREA=0.00176 SQ MI
                     PER A=0 PER B=15.00 PER C=15.00 PER D=70.00
                     TP=-.1333 HR MASS RAINFALL=-1

     K =    .072649HR    TP =    .133300HR    K/TP RATIO =    .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   4.8640    CFS   UNIT VOLUME =    .9971       B =   526.28      P60 = 2.0100
     AREA =       .001232 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


     K =    .119767HR    TP =    .133300HR    K/TP RATIO =    .898476     SHAPE CONSTANT, N =  3.944947
     UNIT PEAK =   1.3922    CFS   UNIT VOLUME =    .9919       B =   351.48      P60 = 2.0100
     AREA =       .000528 SQ MI    IA =    .42500 INCHES    INF =   1.04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD            ID=2 CODE=1

                                   HYDROGRAPH FROM AREA 100.E


    RUNOFF VOLUME =     2.04282 INCHES     =        .1918 ACRE-FEET
    PEAK DISCHARGE RATE =       4.57 CFS  AT   1.500 HOURS   BASIN AREA =   .0018 SQ. MI.


* BASIN F

COMPUTE NM HYD       ID=3 HYD NO=100.F AREA=0.00127 SQ MI
                     PER A=0 PER B=10.00 PER C=10.00 PER D=80.00
                     TP=-.1333 HR MASS RAINFALL=-1
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K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
UNIT PEAK =   4.0112    CFS   UNIT VOLUME =    .9966       B =   526.28      P60 = 2.0100
AREA =      .001016 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


K =   .119767HR    TP =   .133300HR    K/TP RATIO =   .898476     SHAPE CONSTANT, N =  3.944947
UNIT PEAK =   .66974    CFS   UNIT VOLUME =    .9827       B =   351.48      P60 = 2.0100
AREA =      .000254 SQ MI    IA =    .42500 INCHES    INF =   1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD           ID=3 CODE=1

                                   HYDROGRAPH FROM AREA 100.F


    RUNOFF VOLUME =     2.20093 INCHES     =        .1491 ACRE-FEET
    PEAK DISCHARGE RATE =       3.46 CFS  AT   1.500 HOURS   BASIN AREA =   .0013 SQ. MI.


*
* BASIN G

COMPUTE NM HYD      ID=4 HYD NO=100.G AREA=0.00024 SQ MI
                    PER A=25 PER B=0.00 PER C=5.00 PER D=70.00
                    TP=-.1333 HR MASS RAINFALL=-1

K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
UNIT PEAK =   .66327    CFS   UNIT VOLUME =    .9832       B =   526.28      P60 = 2.0100
AREA =      .000168 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


K =   .151370HR    TP =   .133300HR    K/TP RATIO =  1.135557     SHAPE CONSTANT, N =  3.117444
UNIT PEAK =   .15732    CFS   UNIT VOLUME =    .9144       B =   291.26      P60 = 2.0100
AREA =      .000072 SQ MI    IA =    .60000 INCHES    INF =   1.53000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD           ID=4 CODE=1

                                   HYDROGRAPH FROM AREA 100.G


    RUNOFF VOLUME =     1.94276 INCHES     =        .0249 ACRE-FEET
    PEAK DISCHARGE RATE =        .59 CFS  AT   1.500 HOURS   BASIN AREA =   .0002 SQ. MI.


* INLET D

ROUTE RESERVOIR     ID=33 HYD NO=501.D INFLOW ID=1 CODE=24
                    OUTFLOW(CFS)      STORAGE(AC-FT)  ELEVATION(FT)
                        0.00             0.0000          33.50
                      00.1633            0.0004          36.00
                      00.1715            0.0032          36.25
                      00.1779            0.0090          36.45
                      00.1840            0.0183          36.65
                      00.1899            0.0310          36.85
                      00.1956            0.0470          37.05
                      00.2011            0.0666          37.25
                      00.2079            0.0957          37.50

* * * * * * * * * * * * * * * * *

  TIME      INFLOW    ELEV      VOLUME    OUTFLOW
  (HRS)     (CFS)     (FEET)    (AC-FT)   (CFS)

   .00        .00     33.50      .000       .00
```

1.20	.06	33.97	.000	.03
2.40	.10	37.27	.068	.20
3.60	.01	37.10	.052	.20
4.80	.01	36.89	.034	.19
6.00	.02	36.61	.017	.18
7.20	.01	36.02	.001	.16
8.40	.01	33.71	.000	.01
9.60	.01	33.69	.000	.01
10.80	.01	33.68	.000	.01
12.00	.01	33.67	.000	.01
13.20	.01	33.66	.000	.01
14.40	.01	33.65	.000	.01
15.60	.01	33.64	.000	.01
16.80	.01	33.63	.000	.01
18.00	.01	33.63	.000	.01
19.20	.01	33.62	.000	.01
20.40	.01	33.62	.000	.01
21.60	.01	33.61	.000	.01
22.80	.01	33.61	.000	.01
24.00	.01	33.61	.000	.01

PEAK DISCHARGE = .202 CFS - PEAK OCCURS AT HOUR 2.20
MAXIMUM WATER SURFACE ELEVATION = 37.274
MAXIMUM STORAGE = .0694 AC-FT INCREMENTAL TIME= .050000HRS

PRINT HYD ID=33 CODE=1

HYDROGRAPH FROM AREA 501.D

RUNOFF VOLUME = 2.02595 INCHES = .1080 ACRE-FEET
PEAK DISCHARGE RATE = .20 CFS AT 2.200 HOURS BASIN AREA = .0010 SQ. MI.

INLET E

ROUTE RESERVOIR ID=6 HYD NO=501.E INFLOW ID=2 CODE=24

OUTFLOW(CFS)	STORAGE(AC-FT)	ELEVATION(FT)
0.00	0.0000	40.90
00.0768	0.0003	42.25
00.0822	0.0035	42.50
00.0864	0.0107	42.70
00.0903	0.0219	42.90
00.0941	0.0372	43.10
00.0987	0.0621	43.35
00.1030	0.0933	43.60
00.1068	0.1277	43.83
00.1108	0.1712	44.08

* * * * * * * * * * * * * * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	40.90	.000	.00
1.20	.11	41.63	.000	.04
2.40	.18	43.93	.145	.11
3.60	.03	43.90	.140	.11
4.80	.02	43.85	.131	.11
6.00	.03	43.80	.123	.11
7.20	.03	43.75	.115	.11
8.40	.02	43.69	.107	.10
9.60	.02	43.64	.099	.10
10.80	.02	43.58	.091	.10
12.00	.02	43.52	.083	.10
13.20	.02	43.45	.075	.10
14.40	.02	43.39	.067	.10
15.60	.02	43.31	.058	.10
16.80	.02	43.23	.050	.10

18.00	.02	43.15	.042	.10
19.20	.01	43.07	.035	.09
20.40	.01	42.96	.027	.09
21.60	.01	42.85	.019	.09
22.80	.01	42.72	.012	.09
24.00	.01	42.53	.004	.08

PEAK DISCHARGE = .108 CFS - PEAK OCCURS AT HOUR 2.60
MAXIMUM WATER SURFACE ELEVATION = 43.930
MAXIMUM STORAGE = .1451 AC-FT INCREMENTAL TIME= .050000HRS

PRINT HYD ID=6 CODE=1

HYDROGRAPH FROM AREA 501.E

RUNOFF VOLUME = 2.04263 INCHES = .1917 ACRE-FEET
PEAK DISCHARGE RATE = .11 CFS AT 2.600 HOURS BASIN AREA = .0018 SQ. MI.

INLET F
ROUTE RESERVOIR ID=7 HYD NO=501.F INFLOW ID=3 CODE=24

OUTFLOW(CFS)	STORAGE(AC-FT)	ELEVATION(FT)
0.00	0.0000	41.33
0.0848	0.0004	43.50
0.0890	0.0050	43.75
0.0923	0.0153	43.95
0.0954	0.0315	44.15
0.0984	0.0536	44.35
0.1014	0.0815	44.55
0.1042	0.1154	44.75
0.1177	0.1659	45.00

* * * * * * * * * * * * * * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	41.33	.000	.00
1.20	.09	42.11	.000	.03
2.40	.14	44.71	.109	.10
3.60	.02	44.68	.103	.10
4.80	.02	44.63	.095	.10
6.00	.02	44.58	.087	.10
7.20	.02	44.53	.079	.10
8.40	.02	44.47	.071	.10
9.60	.02	44.42	.063	.10
10.80	.02	44.36	.055	.10
12.00	.02	44.29	.047	.10
13.20	.01	44.21	.039	.10
14.40	.01	44.14	.031	.10
15.60	.01	44.04	.023	.09
16.80	.01	43.94	.015	.09
18.00	.01	43.79	.007	.09
19.20	.01	41.73	.000	.02
20.40	.01	41.62	.000	.01
21.60	.01	41.61	.000	.01
22.80	.01	41.60	.000	.01
24.00	.01	41.59	.000	.01

PEAK DISCHARGE = .104 CFS - PEAK OCCURS AT HOUR 2.50
MAXIMUM WATER SURFACE ELEVATION = 44.713
MAXIMUM STORAGE = .1091 AC-FT INCREMENTAL TIME= .050000HRS

PRINT HYD ID=7 CODE=1

HYDROGRAPH FROM AREA 501.F

RUNOFF VOLUME = 2.20066 INCHES = .1491 ACRE-FEET

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    PEAK DISCHARGE RATE =        .10 CFS  AT   2.500 HOURS   BASIN AREA =   .0013 SQ. MI.


* ADD INLETS E AND F

ADD HYD             ID=34 HYD=101.2 ID I=6 II=7
PRINT HYD           ID=34 CODE=1

                                PARTIAL HYDROGRAPH   101.20

    RUNOFF VOLUME =     2.10882 INCHES     =        .3408 ACRE-FEET
    PEAK DISCHARGE RATE =        .21 CFS  AT   2.550 HOURS   BASIN AREA =   .0030 SQ. MI.


************************
* GENERAL TECHNOLOGY
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* BASIN 1

COMPUTE NM HYD      ID=1 HYD NO=100.1 AREA=0.004029 SQ MI
                    PER A=0 PER B=14.00 PER C=10.00 PER D=86.00
                    TP=-.1333 HR MASS RAINFALL=-1
     *****WARNING*****  SUM OF TREATMENT TYPES DOES NOT EQUAL 100 PERCENT OR TOTAL AREA


     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   12.436    CFS   UNIT VOLUME =    .9983       B =   526.28      P60 = 2.0100
     AREA =      .003150 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


     K =   .121820HR    TP =   .133300HR    K/TP RATIO =   .913880     SHAPE CONSTANT, N =  3.874527
     UNIT PEAK =   2.2864    CFS   UNIT VOLUME =    .9956       B =   346.72      P60 = 2.0100
     AREA =      .000879 SQ MI    IA =    .43750 INCHES    INF =   1.07500 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD           ID=1 CODE=1

                                PARTIAL HYDROGRAPH   100.10

    RUNOFF VOLUME =     2.16603 INCHES     =        .4654 ACRE-FEET
    PEAK DISCHARGE RATE =      10.81 CFS  AT   1.500 HOURS   BASIN AREA =   .0040 SQ. MI.


* BASIN 2

COMPUTE NM HYD      ID=2 HYD NO=100.2 AREA=0.002186 SQ MI
                    PER A=0 PER B=14.00 PER C=0.00 PER D=86.00
                    TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   7.4222    CFS   UNIT VOLUME =    .9978       B =   526.28      P60 = 2.0100
     AREA =      .001880 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


     K =   .132088HR    TP =   .133300HR    K/TP RATIO =   .990905     SHAPE CONSTANT, N =  3.563124
     UNIT PEAK =   .74595    CFS   UNIT VOLUME =    .9843       B =   324.91      P60 = 2.0100
     AREA =      .000306 SQ MI    IA =    .50000 INCHES    INF =   1.25000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000
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PRINT HYD            ID=2 CODE=1

                                    PARTIAL HYDROGRAPH   100.20

    RUNOFF VOLUME =     2.27364 INCHES     =        .2651 ACRE-FEET
    PEAK DISCHARGE RATE =       6.02 CFS  AT   1.500 HOURS   BASIN AREA =   .0022 SQ. MI.


* BASIN 3

COMPUTE NM HYD       ID=3 HYD NO=100.3 AREA=0.001627 SQ MI
                     PER A=0 PER B=14.00 PER C=0.00 PER D=86.00
                     TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   5.5242    CFS   UNIT VOLUME =    .9971       B =   526.28      P60 = 2.0100
     AREA =      .001399 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


     K =   .132088HR    TP =   .133300HR    K/TP RATIO =   .990905     SHAPE CONSTANT, N =  3.563124
     UNIT PEAK =   .55520    CFS   UNIT VOLUME =    .9765       B =   324.91      P60 = 2.0100
     AREA =      .000228 SQ MI    IA =    .50000 INCHES    INF =   1.25000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD            ID=3 CODE=1

                                    PARTIAL HYDROGRAPH   100.30

    RUNOFF VOLUME =     2.27364 INCHES     =        .1973 ACRE-FEET
    PEAK DISCHARGE RATE =       4.49 CFS  AT   1.500 HOURS   BASIN AREA =   .0016 SQ. MI.


*
* BASIN 4

COMPUTE NM HYD       ID=4 HYD NO=100.4 AREA=0.002353 SQ MI
                     PER A=0.0 PER B=14.00 PER C=0.00 PER D=86.00
                     TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   7.9892    CFS   UNIT VOLUME =    .9978       B =   526.28      P60 = 2.0100
     AREA =      .002024 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


     K =   .132088HR    TP =   .133300HR    K/TP RATIO =   .990905     SHAPE CONSTANT, N =  3.563124
     UNIT PEAK =   .80293    CFS   UNIT VOLUME =    .9843       B =   324.91      P60 = 2.0100
     AREA =      .000329 SQ MI    IA =    .50000 INCHES    INF =   1.25000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD            ID=4 CODE=1

                                    PARTIAL HYDROGRAPH   100.40

    RUNOFF VOLUME =     2.27364 INCHES     =        .2853 ACRE-FEET
    PEAK DISCHARGE RATE =       6.48 CFS  AT   1.500 HOURS   BASIN AREA =   .0024 SQ. MI.


* POND 1
```

```
ROUTE RESERVOIR      ID=5 HYD NO=501.1 INFLOW ID=1 CODE=24
                     OUTFLOW(CFS)       STORAGE(AC-FT)  ELEVATION(FT)
                         0.00              0.00000         40.20
                         0.18              0.00046         43.10
                         0.25              0.00092         46.00
                         0.26              0.03732         46.25
                         0.26              0.10466         46.50
                         0.27              0.20295         46.75
                         0.27              0.33218         47.00
                         0.28              0.52098         47.25
                         0.28              0.70977         47.50

  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *

    TIME       INFLOW     ELEV       VOLUME     OUTFLOW
    (HRS)      (CFS)      (FEET)     (AC-FT)    (CFS)

     .00         .00      40.20       .000        .00
    1.20         .27      42.37       .000        .13
    2.40         .44      47.02       .344        .27
    3.60         .06      47.00       .332        .27
    4.80         .06      47.00       .332        .27
    6.00         .07      47.00       .332        .27
    7.20         .07      47.00       .332        .27
    8.40         .06      47.00       .332        .27
    9.60         .06      47.00       .332        .27
   10.80         .05      47.00       .332        .27
   12.00         .05      46.71       .186        .27
   13.20         .05      46.65       .164        .27
   14.40         .04      46.60       .142        .26
   15.60         .04      46.54       .120        .26
   16.80         .04      46.50       .105        .26
   18.00         .04      46.50       .105        .26
   19.20         .04      46.50       .105        .26
   20.40         .04      46.22       .032        .26
   21.60         .03      46.07       .011        .25
   22.80         .03      40.72       .000        .03
   24.00         .03      40.70       .000        .03
 PEAK DISCHARGE =          .271 CFS - PEAK OCCURS AT HOUR    2.60
 MAXIMUM WATER SURFACE ELEVATION =       47.017
 MAXIMUM STORAGE =          .3450 AC-FT      INCREMENTAL TIME=     .050000HRS

PRINT HYD            ID=5 CODE=1

                                 OUTFLOW HYDROGRAPH RESERVOIR   501.10


    RUNOFF VOLUME =     2.16595 INCHES     =        .4654 ACRE-FEET
    PEAK DISCHARGE RATE =        .27 CFS  AT   2.600 HOURS   BASIN AREA =   .0040 SQ. MI.



* ADD POND 1 AND BASIN 2

ADD HYD              ID=6 HYD=101.2 ID I=2 II=5
PRINT HYD            ID=6 CODE=1

                                   PARTIAL HYDROGRAPH   101.20


    RUNOFF VOLUME =     2.20376 INCHES     =        .7305 ACRE-FEET
    PEAK DISCHARGE RATE =       6.28 CFS  AT   1.500 HOURS   BASIN AREA =   .0062 SQ. MI.



* POND 2

ROUTE RESERVOIR      ID=7 HYD NO=501.2 INFLOW ID=6 CODE=24
```

OUTFLOW(CFS)	STORAGE(AC-FT)	ELEVATION(FT)
0.00	0.00000	37.75
0.21	0.00065	41.80
0.30	0.00129	45.85
0.30	0.02347	46.10
0.31	0.08991	46.35
0.31	0.20064	46.60
0.32	0.35563	46.85

* * * * * * * * * * * * * * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	37.75	.000	.00
1.20	.30	40.30	.000	.13
2.40	.52	46.61	.205	.31
3.60	.31	46.61	.209	.31
4.80	.30	46.61	.209	.31
6.00	.31	46.61	.208	.31
7.20	.31	46.61	.208	.31
8.40	.31	46.61	.208	.31
9.60	.30	46.61	.207	.31
10.80	.30	46.61	.207	.31
12.00	.30	46.61	.206	.31
13.20	.29	46.61	.204	.31
14.40	.29	46.60	.202	.31
15.60	.29	46.60	.201	.31
16.80	.28	46.60	.201	.31
18.00	.28	46.60	.201	.31
19.20	.28	46.60	.201	.31
20.40	.28	46.60	.201	.31
21.60	.27	46.60	.201	.31
22.80	.05	46.60	.201	.31
24.00	.05	46.60	.201	.31
25.20	.00	46.60	.201	.31
26.40	.00	46.33	.085	.31
27.60	.00	46.22	.054	.30
28.80	.00	46.10	.024	.30

PEAK DISCHARGE = .311 CFS - PEAK OCCURS AT HOUR 3.50
MAXIMUM WATER SURFACE ELEVATION = 46.614
MAXIMUM STORAGE = .2094 AC-FT INCREMENTAL TIME= .050000HRS

PRINT HYD ID=7 CODE=1

OUTFLOW HYDROGRAPH RESERVOIR 501.20

RUNOFF VOLUME = 2.20375 INCHES = .7305 ACRE-FEET
PEAK DISCHARGE RATE = .31 CFS AT 3.500 HOURS BASIN AREA = .0062 SQ. MI.

* ADD POND 2 AND BASIN 3

ADD HYD ID=8 HYD=101.2 ID I=3 II=7
PRINT HYD ID=8 CODE=1

PARTIAL HYDROGRAPH 101.20

RUNOFF VOLUME = 2.21821 INCHES = .9277 ACRE-FEET
PEAK DISCHARGE RATE = 4.79 CFS AT 1.500 HOURS BASIN AREA = .0078 SQ. MI.

* POND 3

```
ROUTE RESERVOIR      ID=9 HYD NO=501.F INFLOW ID=8 CODE=24
                     OUTFLOW(CFS)      STORAGE(AC-FT)  ELEVATION(FT)
                        0.00             0.00000         43.50
                        0.25             0.00020         44.75
                        0.36             0.00040         46.00
                        0.38             0.00440         46.25
                        0.40             0.01634         46.50
                        0.42             0.03620         46.75
                        0.43             0.06399         47.00
                        0.45             0.09971         47.25
                        0.47             0.14336         47.50

  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *

    TIME       INFLOW    ELEV      VOLUME    OUTFLOW
    (HRS)      (CFS)     (FEET)    (AC-FT)   (CFS)

     .00        .00      43.50      .000       .00
    1.20        .25      44.46      .000       .19
    2.40        .50      47.49      .142       .47
    3.60        .34      47.44      .133       .47
    4.80        .34      47.37      .120       .46
    6.00        .34      47.30      .109       .45
    7.20        .34      47.23      .098       .45
    8.40        .34      47.16      .087       .44
    9.60        .34      47.09      .077       .44
   10.80        .33      47.02      .067       .43
   12.00        .33      46.94      .057       .43
   13.20        .33      46.85      .048       .42
   14.40        .33      46.77      .039       .42
   15.60        .33      46.67      .030       .41
   16.80        .33      46.57      .022       .41
   18.00        .33      46.46      .014       .40
   19.20        .33      46.33      .008       .39
   20.40        .33      46.14      .003       .37
   21.60        .32      45.60      .000       .32
   22.80        .32      45.60      .000       .32
   24.00        .32      45.59      .000       .32
   25.20        .31      45.43      .000       .31
   26.40        .31      45.42      .000       .31
   27.60        .30      45.37      .000       .30
   28.80        .30      45.32      .000       .30
 PEAK DISCHARGE =          .470 CFS - PEAK OCCURS AT HOUR    2.45
 MAXIMUM WATER SURFACE ELEVATION =       47.494
 MAXIMUM STORAGE =          .1423 AC-FT      INCREMENTAL TIME=     .050000HRS

PRINT HYD            ID=9 CODE=1

                                        HYDROGRAPH FROM AREA 501.F

    RUNOFF VOLUME =     2.21822 INCHES     =        .9277 ACRE-FEET
    PEAK DISCHARGE RATE =        .47 CFS  AT   2.450 HOURS   BASIN AREA =   .0078 SQ. MI.


* ADD POND 3 AND BASIN 4

ADD HYD              ID=10 HYD=101.2 ID I=4 II=9
PRINT HYD            ID=10 CODE=1

                                     PARTIAL HYDROGRAPH   101.20

    RUNOFF VOLUME =     2.23098 INCHES     =       1.2130 ACRE-FEET
    PEAK DISCHARGE RATE =       6.91 CFS  AT   1.500 HOURS   BASIN AREA =   .0102 SQ. MI.
```

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* POND 4

ROUTE RESERVOIR      ID=35 HYD NO=501.4 INFLOW ID=10 CODE=24
                     OUTFLOW(CFS)       STORAGE(AC-FT)  ELEVATION(FT)
                        0.00              0.00000         41.00
                        0.31              0.00017         42.08
                        0.46              0.00034         43.16
                        0.48              0.01435         43.41
                        0.51              0.05628         43.66
                        0.53              0.12614         43.91
                        0.56              0.22394         44.16
                        0.58              0.34966         44.41
                        0.60              0.50331         44.66

 *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *

   TIME       INFLOW     ELEV       VOLUME     OUTFLOW
   (HRS)      (CFS)      (FEET)     (AC-FT)    (CFS)

    .00         .00      41.00       .000        .00
   1.20         .37      42.05       .000        .30
   2.40         .74      44.14       .216        .56
   3.60         .51      44.14       .216        .56
   4.80         .50      44.13       .210        .56
   6.00         .50      44.11       .204        .55
   7.20         .49      44.10       .199        .55
   8.40         .48      44.08       .192        .55
   9.60         .47      44.06       .185        .55
  10.80         .47      44.04       .177        .55
  12.00         .46      44.02       .169        .54
  13.20         .45      44.00       .161        .54
  14.40         .45      43.98       .152        .54
  15.60         .44      43.95       .143        .54
  16.80         .43      43.93       .133        .53
  18.00         .42      43.90       .123        .53
  19.20         .41      43.86       .112        .53
  20.40         .39      43.82       .100        .52
  21.60         .35      43.76       .085        .52
  22.80         .35      43.70       .068        .51
  24.00         .34      43.63       .052        .51
  25.20         .31      43.52       .033        .49
  26.40         .31      43.42       .016        .48
  27.60         .30      41.93       .000        .27
  28.80         .30      42.05       .000        .30
 PEAK DISCHARGE =          .558 CFS - PEAK OCCURS AT HOUR    2.85
 MAXIMUM WATER SURFACE ELEVATION =       44.145
 MAXIMUM STORAGE =          .2182 AC-FT      INCREMENTAL TIME=     .050000HRS

PRINT HYD            ID=35 CODE=1

                                 OUTFLOW HYDROGRAPH RESERVOIR   501.40


   RUNOFF VOLUME =      2.23098 INCHES      =       1.2131 ACRE-FEET
   PEAK DISCHARGE RATE =         .56 CFS  AT   2.850 HOURS   BASIN AREA =   .0102 SQ. MI.


*******************
* SAM'S CLUB
*******************

* BASIN 1

COMPUTE NM HYD       ID=1 HYD NO=100.1 AREA=0.003467 SQ MI
                     PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                     TP=-.1333 HR MASS RAINFALL=-1
```

```
K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
UNIT PEAK =   11.635    CFS   UNIT VOLUME =    .9981       B =   526.28      P60 = 2.0100
AREA =      .002947 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


K =   .132088HR    TP =   .133300HR    K/TP RATIO =   .990905     SHAPE CONSTANT, N =  3.563124
UNIT PEAK =   1.2676    CFS   UNIT VOLUME =    .9909       B =   324.91      P60 = 2.0100
AREA =      .000520 SQ MI    IA =    .50000 INCHES    INF =   1.25000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD           ID=1 CODE=1

                                PARTIAL HYDROGRAPH   100.10


    RUNOFF VOLUME =     2.25624 INCHES     =        .4172 ACRE-FEET
    PEAK DISCHARGE RATE =       9.49 CFS  AT   1.500 HOURS   BASIN AREA =   .0035 SQ. MI.



* BASIN 2

COMPUTE NM HYD      ID=2 HYD NO=100.2 AREA=0.003867 SQ MI
                    PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                    TP=-.1333 HR MASS RAINFALL=-1

K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
UNIT PEAK =   12.977    CFS   UNIT VOLUME =    .9983       B =   526.28      P60 = 2.0100
AREA =      .003287 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


K =   .132088HR    TP =   .133300HR    K/TP RATIO =   .990905     SHAPE CONSTANT, N =  3.563124
UNIT PEAK =   1.4138    CFS   UNIT VOLUME =    .9921       B =   324.91      P60 = 2.0100
AREA =      .000580 SQ MI    IA =    .50000 INCHES    INF =   1.25000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD           ID=2 CODE=1

                                PARTIAL HYDROGRAPH   100.20


    RUNOFF VOLUME =     2.25624 INCHES     =        .4653 ACRE-FEET
    PEAK DISCHARGE RATE =      10.58 CFS  AT   1.500 HOURS   BASIN AREA =   .0039 SQ. MI.



* BASIN 3

COMPUTE NM HYD      ID=3 HYD NO=100.3 AREA=0.003037 SQ MI
                    PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
                    TP=-.1333 HR MASS RAINFALL=-1

K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
UNIT PEAK =   10.192    CFS   UNIT VOLUME =    .9981       B =   526.28      P60 = 2.0100
AREA =      .002581 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


K =   .132088HR    TP =   .133300HR    K/TP RATIO =   .990905     SHAPE CONSTANT, N =  3.563124
UNIT PEAK =   1.1104    CFS   UNIT VOLUME =    .9896       B =   324.91      P60 = 2.0100
AREA =      .000456 SQ MI    IA =    .50000 INCHES    INF =   1.25000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD           ID=3 CODE=1
```

PARTIAL HYDROGRAPH 100.30

RUNOFF VOLUME = 2.25624 INCHES = .3654 ACRE-FEET
PEAK DISCHARGE RATE = 8.31 CFS AT 1.500 HOURS BASIN AREA = .0030 SQ. MI.

* BASIN 4

COMPUTE NM HYD ID=4 HYD NO=100.4 AREA=0.004847 SQ MI
PER A=0 PER B=0.00 PER C=0.00 PER D=100.00
TP=-.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 19.136 CFS UNIT VOLUME = .9986 B = 526.28 P60 = 2.0100
AREA = .004847 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .050000

PRINT HYD ID=4 CODE=1

PARTIAL HYDROGRAPH 100.40

RUNOFF VOLUME = 2.51715 INCHES = .6507 ACRE-FEET
PEAK DISCHARGE RATE = 14.34 CFS AT 1.500 HOURS BASIN AREA = .0048 SQ. MI.

* BASIN 5

COMPUTE NM HYD ID=5 HYD NO=100.5 AREA=0.001208 SQ MI
PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
TP=-.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 4.0539 CFS UNIT VOLUME = .9966 B = 526.28 P60 = 2.0100
AREA = .001027 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .050000

K = .132088HR TP = .133300HR K/TP RATIO = .990905 SHAPE CONSTANT, N = 3.563124
UNIT PEAK = .44166 CFS UNIT VOLUME = .9695 B = 324.91 P60 = 2.0100
AREA = .000181 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .050000

PRINT HYD ID=5 CODE=1

PARTIAL HYDROGRAPH 100.50

RUNOFF VOLUME = 2.25625 INCHES = .1454 ACRE-FEET
PEAK DISCHARGE RATE = 3.32 CFS AT 1.500 HOURS BASIN AREA = .0012 SQ. MI.

* BASIN 6

COMPUTE NM HYD ID=6 HYD NO=100.6 AREA=0.002760 SQ MI
PER A=0 PER B=15.00 PER C=0.00 PER D=85.00
TP=-.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420

```
     UNIT PEAK =   9.2621    CFS   UNIT VOLUME =    .9978       B =   526.28      P60 = 2.0100
     AREA =      .002346 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


     K =   .132088HR    TP =   .133300HR    K/TP RATIO =   .990905     SHAPE CONSTANT, N =  3.563124
     UNIT PEAK =   1.0091    CFS   UNIT VOLUME =    .9880       B =   324.91      P60 = 2.0100
     AREA =      .000414 SQ MI    IA =    .50000 INCHES    INF =   1.25000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD           ID=6 CODE=1

                                    PARTIAL HYDROGRAPH   100.60


     RUNOFF VOLUME =      2.25624 INCHES     =        .3321 ACRE-FEET
     PEAK DISCHARGE RATE =       7.56 CFS  AT   1.500 HOURS   BASIN AREA =   .0028 SQ. MI.


* BASIN 7

COMPUTE NM HYD      ID=7 HYD NO=100.7 AREA=0.001241 SQ MI
                    PER A=0 PER B=100.00 PER C=0.00 PER D=0.00
                    TP=-.1333 HR MASS RAINFALL=-1

     K =   .132088HR    TP =   .133300HR    K/TP RATIO =   .990905     SHAPE CONSTANT, N =  3.563124
     UNIT PEAK =   3.0248    CFS   UNIT VOLUME =    .9969       B =   324.91      P60 = 2.0100
     AREA =      .001241 SQ MI    IA =    .50000 INCHES    INF =   1.25000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD           ID=7 CODE=1

                                    PARTIAL HYDROGRAPH   100.70


     RUNOFF VOLUME =       .77774 INCHES     =        .0515 ACRE-FEET
     PEAK DISCHARGE RATE =       1.81 CFS  AT   1.500 HOURS   BASIN AREA =   .0012 SQ. MI.


* BASIN 8

COMPUTE NM HYD      ID=8 HYD NO=100.8 AREA=0.000276 SQ MI
                    PER A=0 PER B=0.00 PER C=0.00 PER D=100.00
                    TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   1.0897    CFS   UNIT VOLUME =    .9891       B =   526.28      P60 = 2.0100
     AREA =      .000276 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD           ID=8 CODE=1

                                    PARTIAL HYDROGRAPH   100.80


     RUNOFF VOLUME =      2.51715 INCHES     =        .0371 ACRE-FEET
     PEAK DISCHARGE RATE =        .82 CFS  AT   1.500 HOURS   BASIN AREA =   .0003 SQ. MI.


* POND 1

ROUTE RESERVOIR     ID=9 HYD NO=501.1 INFLOW ID=1 CODE=24
                    OUTFLOW(CFS)      STORAGE(AC-FT)  ELEVATION(FT)
```

0.0000	0.0000	39.54
3.2184	0.0006	43.54
3.3050	0.0063	43.74
3.3894	0.0232	43.94
3.4717	0.0514	44.14
3.5522	0.0909	44.34
3.6308	0.1416	44.54
3.6463	0.1534	44.58

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	39.54	.000	.00
1.20	.25	39.84	.000	.24
2.40	.39	43.74	.007	3.31
3.60	.06	39.61	.000	.06
4.80	.05	39.60	.000	.05
6.00	.06	39.62	.000	.06
7.20	.06	39.62	.000	.06
8.40	.06	39.61	.000	.06
9.60	.05	39.61	.000	.05
10.80	.05	39.60	.000	.05
12.00	.05	39.60	.000	.05
13.20	.04	39.59	.000	.04
14.40	.04	39.59	.000	.04
15.60	.04	39.59	.000	.04
16.80	.04	39.59	.000	.04
18.00	.04	39.58	.000	.04
19.20	.03	39.58	.000	.03
20.40	.03	39.58	.000	.03
21.60	.03	39.58	.000	.03
22.80	.03	39.58	.000	.03
24.00	.03	39.58	.000	.03

PEAK DISCHARGE = 3.566 CFS - PEAK OCCURS AT HOUR 1.75
MAXIMUM WATER SURFACE ELEVATION = 44.375
MAXIMUM STORAGE = .0999 AC-FT INCREMENTAL TIME= .050000HRS

PRINT HYD ID=9 CODE=1

OUTFLOW HYDROGRAPH RESERVOIR 501.10

RUNOFF VOLUME = 2.25615 INCHES = .4172 ACRE-FEET
PEAK DISCHARGE RATE = 3.57 CFS AT 1.750 HOURS BASIN AREA = .0035 SQ. MI.

* POND 2

ROUTE RESERVOIR ID=10 HYD NO=501.2 INFLOW ID=2 CODE=24

OUTFLOW(CFS)	STORAGE(AC-FT)	ELEVATION(FT)
0.0000	0.0000	37.00
0.4653	0.0006	41.00
0.4771	0.0204	41.20
0.4887	0.0798	41.40
0.5000	0.1787	41.60
0.5110	0.3172	41.80
0.5127	0.3414	41.83

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	37.00	.000	.00
1.20	.28	38.62	.000	.19
2.40	.44	41.80	.317	.51

3.60	.07	41.75	.282	.51
4.80	.06	41.69	.238	.50
6.00	.07	41.62	.194	.50
7.20	.07	41.55	.152	.50
8.40	.06	41.46	.109	.49
9.60	.06	41.36	.067	.49
10.80	.06	41.21	.024	.48
12.00	.05	37.45	.000	.05
13.20	.05	37.41	.000	.05
14.40	.05	37.40	.000	.05
15.60	.04	37.38	.000	.04
16.80	.04	37.35	.000	.04
18.00	.04	37.35	.000	.04
19.20	.04	37.33	.000	.04
20.40	.04	37.32	.000	.04
21.60	.03	37.30	.000	.04
22.80	.03	37.29	.000	.03
24.00	.03	37.28	.000	.03

PEAK DISCHARGE = .511 CFS - PEAK OCCURS AT HOUR 2.35
MAXIMUM WATER SURFACE ELEVATION = 41.800
MAXIMUM STORAGE = .3173 AC-FT INCREMENTAL TIME= .050000HRS

PRINT HYD ID=10 CODE=1

OUTFLOW HYDROGRAPH RESERVOIR 501.20

RUNOFF VOLUME = 2.25642 INCHES = .4654 ACRE-FEET
PEAK DISCHARGE RATE = .51 CFS AT 2.350 HOURS BASIN AREA = .0039 SQ. MI.

* POND 3

ROUTE RESERVOIR ID=11 HYD NO=501.3 INFLOW ID=3 CODE=24

OUTFLOW(CFS)	STORAGE(AC-FT)	ELEVATION(FT)
0.0000	0.0000	35.27
3.6229	0.0006	39.27
3.7210	0.0026	39.47
3.8165	0.0085	39.67
3.9097	0.0184	39.87
4.0007	0.0322	40.07
4.0897	0.0499	40.27
4.1682	0.0692	40.45

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	35.27	.000	.00
1.20	.22	35.50	.000	.21
2.40	.34	35.28	.000	.01
3.60	.05	35.32	.000	.05
4.80	.05	35.32	.000	.05
6.00	.06	35.33	.000	.06
7.20	.05	35.33	.000	.05
8.40	.05	35.32	.000	.05
9.60	.05	35.32	.000	.05
10.80	.04	35.32	.000	.04
12.00	.04	35.31	.000	.04
13.20	.04	35.31	.000	.04
14.40	.04	35.31	.000	.04
15.60	.03	35.31	.000	.03
16.80	.03	35.31	.000	.03
18.00	.03	35.30	.000	.03
19.20	.03	35.30	.000	.03
20.40	.03	35.30	.000	.03
21.60	.03	35.30	.000	.03

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   22.80        .03     35.30       .000       .03
   24.00        .03     35.30       .000       .03
 PEAK DISCHARGE =        4.127 CFS - PEAK OCCURS AT HOUR    1.65
 MAXIMUM WATER SURFACE ELEVATION =       40.355
 MAXIMUM STORAGE =         .0590 AC-FT      INCREMENTAL TIME=     .050000HRS

PRINT HYD           ID=11 CODE=1

                                OUTFLOW HYDROGRAPH RESERVOIR   501.30

    RUNOFF VOLUME =     2.25789 INCHES     =        .3657 ACRE-FEET
    PEAK DISCHARGE RATE =       4.13 CFS  AT   1.650 HOURS   BASIN AREA =   .0030 SQ. MI.


ADD HYD             ID=12 HYD=200.4 ID I=4 II=5
ADD HYD             ID=13 HYD=200.6 ID I=12 II=6
ADD HYD             ID=14 HYD=200.7 ID I=13 II=7
ADD HYD             ID=15 HYD=200.8 ID I=14 II=8
ADD HYD             ID=16 HYD=200.6 ID I=15 II=34
ADD HYD             ID=17 HYD=200.7 ID I=16 II=35
PRINT HYD           ID=17 CODE=1

                                PARTIAL HYDROGRAPH   200.70

    RUNOFF VOLUME =     2.20515 INCHES     =       2.7705 ACRE-FEET
    PEAK DISCHARGE RATE =      28.56 CFS  AT   1.500 HOURS   BASIN AREA =   .0236 SQ. MI.


* POND 4

ROUTE RESERVOIR     ID=18 HYD NO=501.4 INFLOW ID=17 CODE=24
                    OUTFLOW(CFS)      STORAGE(AC-FT)  ELEVATION(FT)
                        0.0000          0.0000          25.40
                        1.0658          0.0010          32.00
                        1.1064          0.0519          32.50
                        1.1456          0.1215          33.00
                        1.1835          0.2096          33.50
                        1.2202          0.3163          34.00
                        1.2559          0.4416          34.50
                        1.2905          0.5855          35.00
                        1.3243          0.7481          35.50
                        1.3572          0.9292          36.00
                        1.3894          1.1289          36.50
                        1.4208          1.3473         37.00


  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *

    TIME       INFLOW     ELEV       VOLUME     OUTFLOW
    (HRS)      (CFS)      (FEET)     (AC-FT)    (CFS)

     .00         .00      25.40       .000        .00
    1.20        1.11      30.40       .001        .81
    2.40        1.91      35.94       .906       1.35
    3.60         .94      35.89       .889       1.35
    4.80         .92      35.77       .847       1.34
    6.00         .95      35.66       .806       1.33
    7.20         .93      35.55       .767       1.33
    8.40         .92      35.44       .728       1.32
    9.60         .90      35.31       .688       1.31
   10.80         .89      35.19       .647       1.30
   12.00         .88      35.06       .605       1.29
   13.20         .86      34.92       .564       1.29
   14.40         .85      34.78       .522       1.28
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   15.60        .84     34.63       .480      1.27
   16.80        .83     34.48       .437      1.25
   18.00        .82     34.31       .395      1.24
   19.20        .73     34.14       .352      1.23
   20.40        .72     33.94       .303      1.22
   21.60        .71     33.71       .254      1.20
   22.80        .70     33.48       .206      1.18
   24.00        .68     33.21       .158      1.16
   25.20        .49     32.84       .100      1.13
   26.40        .48     32.36       .038      1.09
   27.60        .27     27.29       .000       .31
   28.80        .30     27.26       .000       .30
PEAK DISCHARGE =        1.354 CFS - PEAK OCCURS AT HOUR    2.65
MAXIMUM WATER SURFACE ELEVATION =       35.951
MAXIMUM STORAGE =         .9115 AC-FT      INCREMENTAL TIME=     .050000HRS

PRINT HYD           ID=18 CODE=1

                                OUTFLOW HYDROGRAPH RESERVOIR   501.40


    RUNOFF VOLUME =     2.20515 INCHES     =       2.7705 ACRE-FEET
    PEAK DISCHARGE RATE =       1.35 CFS  AT   2.650 HOURS   BASIN AREA =   .0236 SQ. MI.


ADD HYD             ID=19 HYD=200.4 ID I=9 II=10
ADD HYD             ID=20 HYD=200.6 ID I=19 II=11
ADD HYD             ID=21 HYD 200.7 ID I=20 II=18
PRINT HYD           ID=21 CODE=1

                                PARTIAL HYDROGRAPH   200.70


    RUNOFF VOLUME =     2.22092 INCHES     =       4.0187 ACRE-FEET
    PEAK DISCHARGE RATE =       9.49 CFS  AT   1.750 HOURS   BASIN AREA =   .0339 SQ. MI.


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* OFFICE MAX
*******************

* BASIN 14

COMPUTE NM HYD      ID=1 HYD NO=100.14 AREA=0.000319 SQ MI
                    PER A=0 PER B=10.00 PER C=0.00 PER D=90.00
                    TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   1.1335    CFS   UNIT VOLUME =    .9891       B =   526.28      P60 = 2.0100
     AREA =      .000287 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


     K =   .132088HR    TP =   .133300HR    K/TP RATIO =   .990905     SHAPE CONSTANT, N =  3.563124
     UNIT PEAK =   .77754E-01CFS   UNIT VOLUME =    .8744       B =   324.91      P60 = 2.0100
     AREA =      .000032 SQ MI    IA =    .50000 INCHES    INF =   1.25000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD           ID=1 CODE=1

                                PARTIAL HYDROGRAPH   100.14


    RUNOFF VOLUME =     2.34321 INCHES     =        .0399 ACRE-FEET
    PEAK DISCHARGE RATE =        .91 CFS  AT   1.500 HOURS   BASIN AREA =   .0003 SQ. MI.
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* BASIN 16

COMPUTE NM HYD       ID=2 HYD NO=100.16 AREA=0.002779 SQ MI
                     PER A=0 PER B=10.00 PER C=0.00 PER D=90.00
                     TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   9.8745    CFS   UNIT VOLUME =    .9981       B =   526.28      P60 = 2.0100
     AREA =      .002501 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

     K =   .132088HR    TP =   .133300HR    K/TP RATIO =   .990905     SHAPE CONSTANT, N =  3.563124
     UNIT PEAK =   .67736    CFS   UNIT VOLUME =    .9820       B =   324.91      P60 = 2.0100
     AREA =      .000278 SQ MI    IA =    .50000 INCHES    INF =   1.25000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD            ID=2 CODE=1

                                   PARTIAL HYDROGRAPH   100.16


    RUNOFF VOLUME =     2.34321 INCHES     =        .3473 ACRE-FEET
    PEAK DISCHARGE RATE =       7.82 CFS  AT   1.500 HOURS   BASIN AREA =   .0028 SQ. MI.


* BASIN 17

COMPUTE NM HYD       ID=3 HYD NO=100.17 AREA=0.002319 SQ MI
                     PER A=0 PER B=10.00 PER C=0.00 PER D=90.00
                     TP=-.1333 HR MASS RAINFALL=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   8.2400    CFS   UNIT VOLUME =    .9978       B =   526.28      P60 = 2.0100
     AREA =      .002087 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000


     K =   .132088HR    TP =   .133300HR    K/TP RATIO =   .990905     SHAPE CONSTANT, N =  3.563124
     UNIT PEAK =   .56524    CFS   UNIT VOLUME =    .9765       B =   324.91      P60 = 2.0100
     AREA =      .000232 SQ MI    IA =    .50000 INCHES    INF =   1.25000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000

PRINT HYD            ID=3 CODE=1

                                   PARTIAL HYDROGRAPH   100.17


    RUNOFF VOLUME =     2.34321 INCHES     =        .2898 ACRE-FEET
    PEAK DISCHARGE RATE =       6.53 CFS  AT   1.500 HOURS   BASIN AREA =   .0023 SQ. MI.


* POND 14

ROUTE RESERVOIR      ID=4 HYD NO=501.14 INFLOW ID=1 CODE=24
                     OUTFLOW(CFS)      STORAGE(AC-FT)  ELEVATION(FT)
                         0.00             0.00000          28.00
                         0.44             0.00020          29.25
                         0.64             0.00040          30.50
                         0.69             0.00156          30.90
                         0.74             0.00491          31.30
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0.79	0.01045	31.70
0.83	0.01818	32.10
0.87	0.02811	32.50

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	28.00	.000	.00
1.20	.03	28.06	.000	.02
2.40	.03	28.09	.000	.03
3.60	.01	28.02	.000	.01
4.80	.01	28.01	.000	.01
6.00	.01	28.02	.000	.01
7.20	.01	28.02	.000	.01
8.40	.01	28.02	.000	.01
9.60	.01	28.01	.000	.01
10.80	.00	28.01	.000	.00

PEAK DISCHARGE = .699 CFS - PEAK OCCURS AT HOUR 1.60
MAXIMUM WATER SURFACE ELEVATION = 30.973
MAXIMUM STORAGE = .0022 AC-FT INCREMENTAL TIME= .050000HRS

PRINT HYD ID=4 CODE=1

OUTFLOW HYDROGRAPH RESERVOIR 501.14

RUNOFF VOLUME = 2.34263 INCHES = .0399 ACRE-FEET
PEAK DISCHARGE RATE = .70 CFS AT 1.600 HOURS BASIN AREA = .0003 SQ. MI.

ADD HYD ID=5 HYD=200.4 ID I=32 II=2
ADD HYD ID=6 HYD=200.4 ID I=5 II=4
ADD HYD ID=7 HYD=200.4 ID I=6 II=33
PRINT HYD ID=7 CODE=1

PARTIAL HYDROGRAPH 200.40

RUNOFF VOLUME = 1.58088 INCHES = 1.0641 ACRE-FEET
PEAK DISCHARGE RATE = 8.85 CFS AT 1.500 HOURS BASIN AREA = .0126 SQ. MI.

* POND 16

ROUTE RESERVOIR ID=8 HYD NO=501.16 INFLOW ID=7 CODE=24

OUTFLOW(CFS)	STORAGE(AC-FT)	ELEVATION(FT)
0.00	0.0000	26.37
3.32	0.00053	29.69
6.63	0.00106	33.00
7.03	0.02208	33.40
7.43	0.08504	33.80
7.63	0.13224	34.00

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	26.37	.000	.00
1.20	.27	26.62	.000	.25
2.40	.85	27.19	.000	.82
3.60	.55	26.92	.000	.55
4.80	.53	26.90	.000	.53
6.00	.53	26.90	.000	.53

7.20	.50	26.87	.000	.50
8.40	.34	26.71	.000	.34
9.60	.33	26.70	.000	.33
10.80	.33	26.70	.000	.33
12.00	.32	26.69	.000	.32
13.20	.31	26.68	.000	.31
14.40	.30	26.67	.000	.30
15.60	.29	26.66	.000	.29
16.80	.28	26.65	.000	.28
18.00	.28	26.65	.000	.28
19.20	.27	26.64	.000	.27
20.40	.26	26.63	.000	.26
21.60	.26	26.63	.000	.26
22.80	.25	26.62	.000	.25
24.00	.24	26.61	.000	.24
25.20	.20	26.57	.000	.20
26.40	.19	26.56	.000	.19
27.60	.18	26.55	.000	.18
28.80	.17	26.54	.000	.17

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 PEAK DISCHARGE =          6.941 CFS - PEAK OCCURS AT HOUR    1.60
 MAXIMUM WATER SURFACE ELEVATION =       33.311
 MAXIMUM STORAGE =          .0174 AC-FT      INCREMENTAL TIME=     .050000HRS

PRINT HYD            ID=8 CODE=1

                                 OUTFLOW HYDROGRAPH RESERVOIR   501.16


    RUNOFF VOLUME =     1.58084 INCHES     =       1.0641 ACRE-FEET
    PEAK DISCHARGE RATE =       6.94 CFS  AT   1.600 HOURS   BASIN AREA =   .0126 SQ. MI.



ADD HYD              ID=22 HYD 200.7 ID I=21 II=3
ADD HYD              ID=23 HYD=200.8 ID I=22 II=8
PRINT HYD            ID=23 CODE=1

                                   PARTIAL HYDROGRAPH   200.80


    RUNOFF VOLUME =     2.06141 INCHES     =       5.3726 ACRE-FEET
    PEAK DISCHARGE RATE =      22.47 CFS  AT   1.500 HOURS   BASIN AREA =   .0489 SQ. MI.


* POND 17

ROUTE RESERVOIR      ID=24 HYD NO=501.17 INFLOW ID=23 CODE=24
                     OUTFLOW(CFS)      STORAGE(AC-FT)  ELEVATION(FT)
                         0.00          0.0000          23.30
                         2.75          0.0014          32.00
                         2.80          0.0469          32.30
                         2.84          0.1834          32.60
                         2.89          0.4110          32.90
                         2.94          0.7295          33.20
                         2.98          1.1391          33.50

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	23.30	.000	.00
1.20	1.88	28.24	.001	1.56
2.40	6.27	33.45	1.069	2.97
3.60	2.55	33.44	1.062	2.97
4.80	2.51	33.41	1.018	2.97
6.00	2.53	33.38	.974	2.96

7.20	2.49	33.35	.929	2.96
8.40	2.30	33.30	.867	2.95
9.60	2.27	33.25	.801	2.95
10.80	2.23	33.20	.732	2.94
12.00	1.78	33.12	.644	2.93
13.20	1.75	33.01	.530	2.91
14.40	1.73	32.90	.415	2.89
15.60	1.70	32.75	.299	2.87
16.80	1.68	32.60	.184	2.84
18.00	1.65	32.35	.069	2.81
19.20	1.63	28.45	.001	1.63
20.40	1.60	28.37	.001	1.60
21.60	1.57	28.27	.001	1.57
22.80	1.54	28.18	.001	1.54
24.00	1.51	28.08	.001	1.51
25.20	1.33	27.51	.001	1.33
26.40	1.28	27.36	.001	1.28
27.60	.49	24.91	.000	.51
28.80	.48	24.80	.000	.48

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PEAK DISCHARGE =          2.975 CFS - PEAK OCCURS AT HOUR    2.70
MAXIMUM WATER SURFACE ELEVATION =       33.459
MAXIMUM STORAGE =         1.0835 AC-FT      INCREMENTAL TIME=     .050000HRS

PRINT HYD           ID=24 CODE=1

                                OUTFLOW HYDROGRAPH RESERVOIR   501.17


   RUNOFF VOLUME =     2.06137 INCHES     =       5.3725 ACRE-FEET
   PEAK DISCHARGE RATE =       2.97 CFS  AT   2.700 HOURS   BASIN AREA =   .0489 SQ. MI.



FINISH

   NORMAL PROGRAM FINISH          END TIME (HR:MIN:SEC) = 07:40:48
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