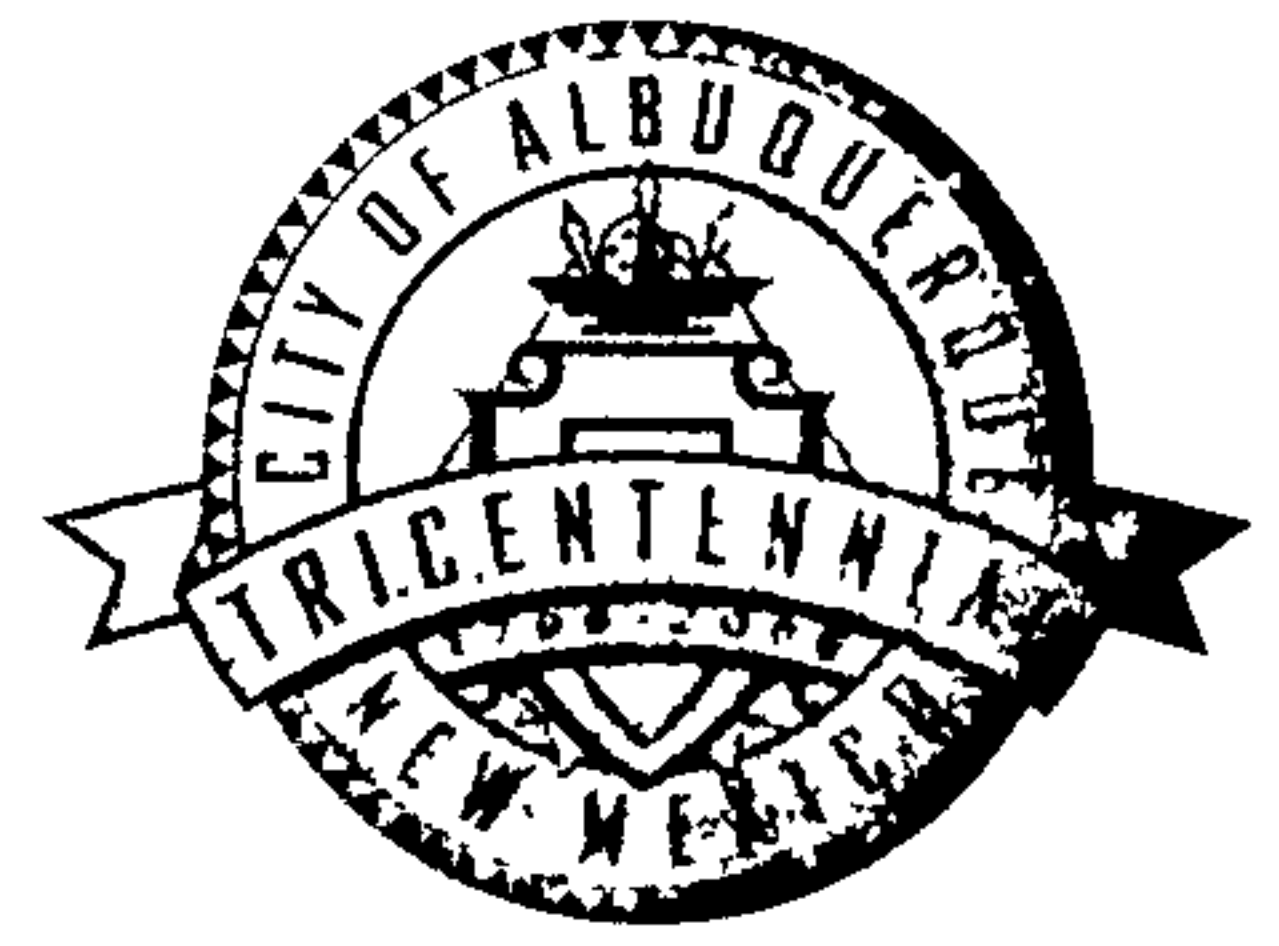


# CITY OF ALBUQUERQUE



**Planning Department  
Transportation Development Services Section**

November 11, 2007

Kent Trauernicht, Registered Architect  
PO BOX 3366  
Albuquerque, NM 87190

Re: Certification Submittal for Final Building Certificate of Occupancy for  
Arapahoe Drilling Office Warehouse Bldg, [C-16 / D6SS]  
8532 Calle Alameda NE  
Architect's Stamp Dated 11/07/07

Dear Mr. Trauernicht:

The TCL / Letter of Certification submitted on November 9, 2007 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](http://www.cabq.gov)



P. O. B O X 3 3 6 6  
ALBUQUERQUE, NM 87190  
T: (505) 281 - 9560  
F: (505) 286 - 1055  
C: (505) 259 - 7919  
aktarch@earthlink.net

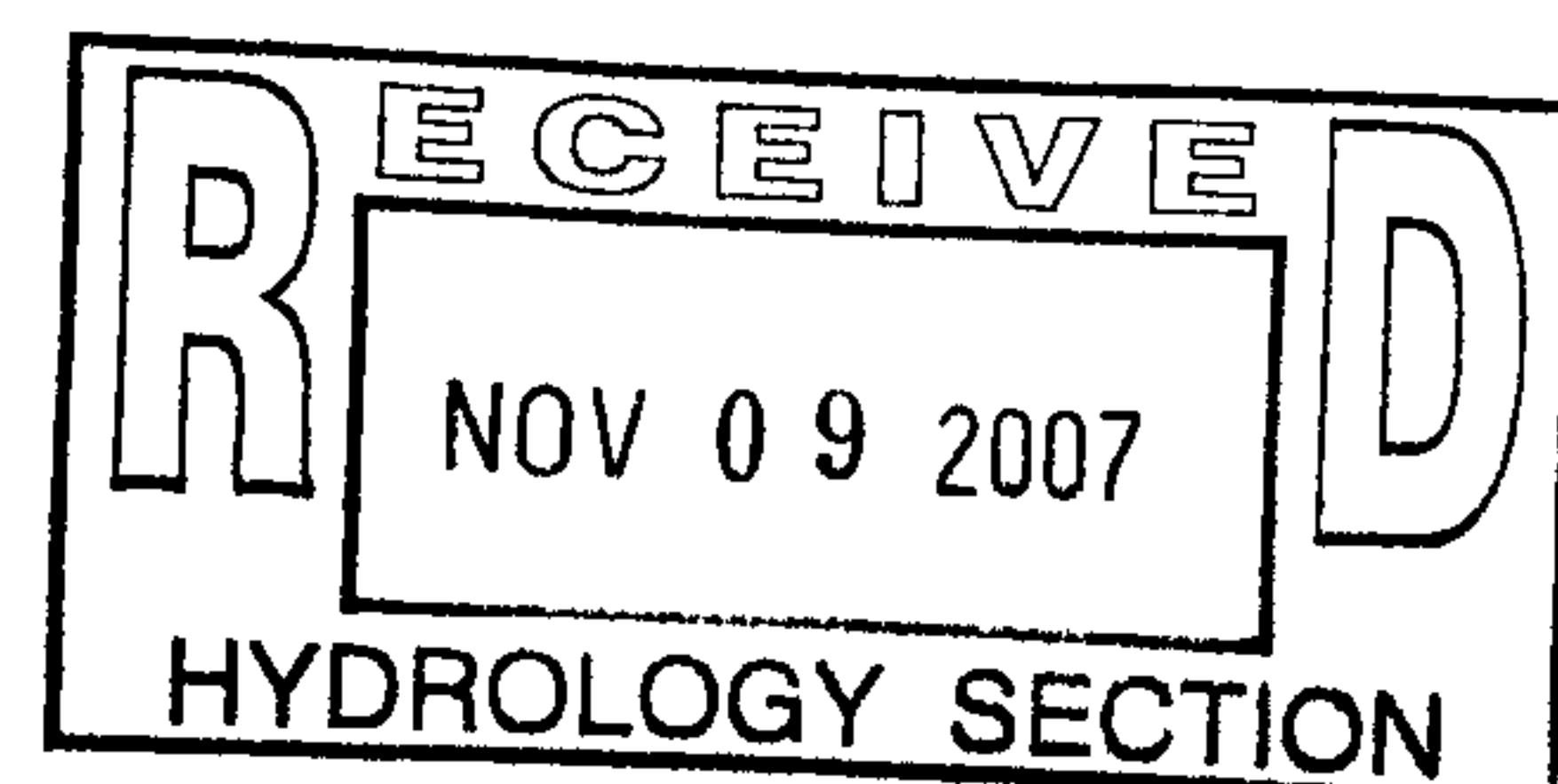
November 7, 2007

City of Albuquerque  
Public Works Department  
Transportation Development Services  
600 2<sup>nd</sup> Street NW  
Albuquerque, NM 87102

RE: Traffic Circulation Layout – Certification  
COA BP# 0705193  
Office Warehouse Building  
Alameda Business Park  
8532 Calle Alameda NE  
Albuquerque, NM 87113

I have visited the completed project and to the best of my knowledge and information it appears to be in substantial compliance with the intent of the design concepts and the "Traffic Circulation Layout", as approved by the City, April 20, 2007. Minor site changes may have occurred during the construction of this project but have no adverse impact to the site and its ability to comply with the approved plan. Those relying upon this record are advised to obtain independent verification of its accuracy before using it for any other purpose.

This document neither expresses nor implies a warranty.



# CITY OF ALBUQUERQUE



January 2, 2008

Eddy Losinski, P.E.  
**JEL & Associates**  
250 Bazan Loop  
Corrales, New Mexico 87048

**Re: Arapahoe Drilling, 8532 Calle Alameda, (C-16/D006SS)**  
**Approval of Permanent Certificate of Occupancy,**  
**Engineer's Stamp Date 4/26/2007**  
**Certification dated: 1-2-08**

Mr. Losinski:

P.O. Box 1293

Based upon the information provided in your submittal received 1/2/08, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

Albuquerque

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

New Mexico 87103

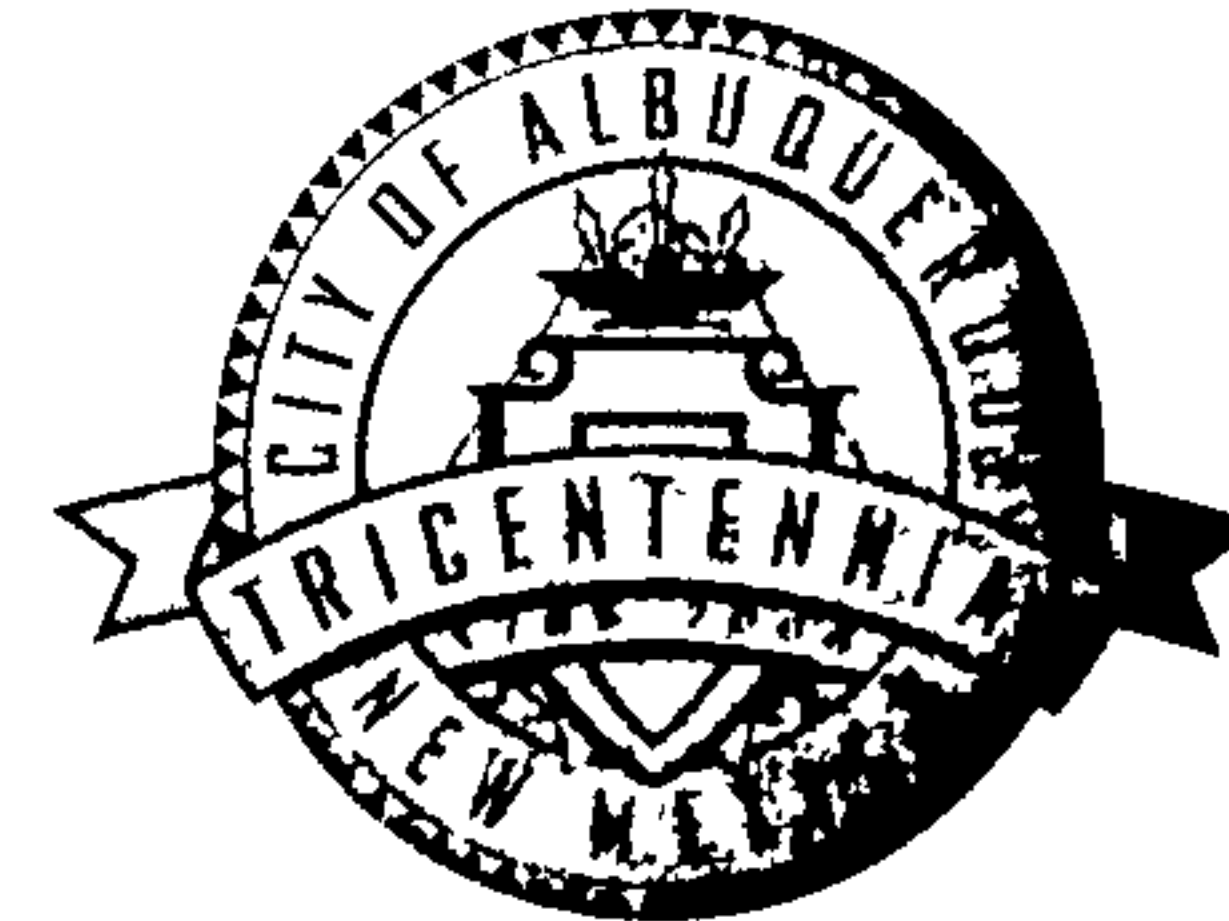
Sincerely,

Timothy Sims  
Plan Checker-Hydrology, Planning Dept  
Development and Building Services

[www.cabq.gov](http://www.cabq.gov)

C: CO Clerk—Katrina Sigala  
file

# CITY OF ALBUQUERQUE



December 19, 2007

Eddy Losinki, P.E.  
**JEL & Associates**  
250 Bazan Loop  
Corrales, New Mexico 87048

**Re: Arapahoe Drilling, 8532 Calle Alameda, (C-16/D006SS)**

**Reject of Permanent Certificate of Occupancy,**

**Approved Engineer's Stamp Date 4/26/2007**

**Submitted Engineer's Stamp Date: 3/19/2007**

**Certification dated:**

P.O. Box 1293

Mr. Losinski:

Albuquerque

Based upon the information provided in your submittal received 12/18/07, the above referenced certification cannot be approved until the following comment is addressed:

New Mexico 87103

- The approved plan, dated 4-26-07, will need to be certified with the enclosed sample certifying letter. This is the language that needs to be on the plans with the Engineer's Certification, it also needs to be stamped, signed, and dated.

[www.cabq.gov](http://www.cabq.gov)

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

Sincerely,

Timothy Sims  
Plan Checker-Hydrology, Planning Dept  
Development and Building Services

C: file

# CITY OF ALBUQUERQUE

May 9, 2007

Edward J. Losinski, PE  
JEL & Associates LLC  
PO Box 3180 Bazan Loop  
Corrales, NM 87048



**Re: Arapaho Drilling, 8532 Calle Alameda**  
**Grading and Drainage Plan**  
**Engineer's Stamp dated ~~3-19-07~~ (C16/D006SS)**  
**4-26-07**

Dear Mr. Losinski,

Based upon the information provided in your submittal dated 3-19-07, the above referenced plan is approved for building Permit and Grading Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Also, prior to Certificate of Occupancy release, Engineer Certification of the grading plan 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 (Kathy Verhage).

P.O.Box 1293

Albuquerque

New Mexico 87103

[www.cabq.gov](http://www.cabq.gov)

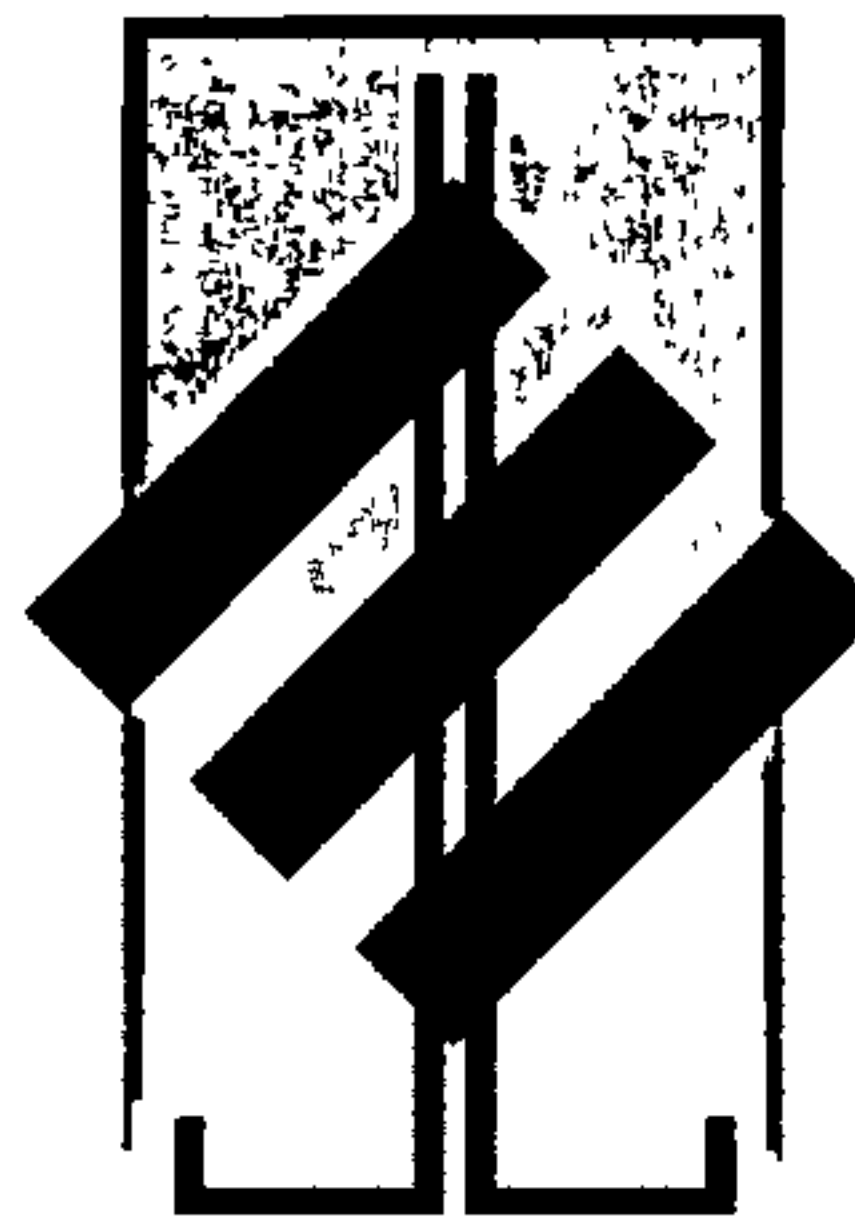
If you have any questions, you can contact me at 924-3986.

Sincerely,

Rudy E. Rael, Associate Engineer  
Planning Department.  
Building and Development Services

C: Kathy Verhage  
CC: file





**JEL**  
**& ASSOCIATES LLC**

P.O. BOX 3180  
250 BAZAN LOOP  
CORRALES, NM 87048

jelassoc@comcast.net

March 19, 2007

City of Albuquerque  
Development Review Section  
600 Second Street NW  
Albuquerque, NM 87102

**RE: Grading and Drainage Plan For Arapaho Drilling, 8532 Calle Alameda,  
Albuquerque, NM, Zone Atlas C-16-Z.**

To Whom It May Concern:

JEL and Associates, LLC (JEL), (Phone 823-1556) has analyzed above noted site with respect to storm drainage conveyance and offers the following commentary and preliminary analysis summary for your review and approval. As a matter of background the Atrisco Business Park was developed under a comprehensive plan that included addressing of issues such as traffic conveyance, utility availability and adequacy as well as storm water management. The approval of this special development allows for the direct discharge of storm water into the streets for collection by the storm drainage piping system to a constructed pond. These features are shown in the attached photo of the Zone Atlas Page C-16-Z as retrieved from the COA online GIS database.

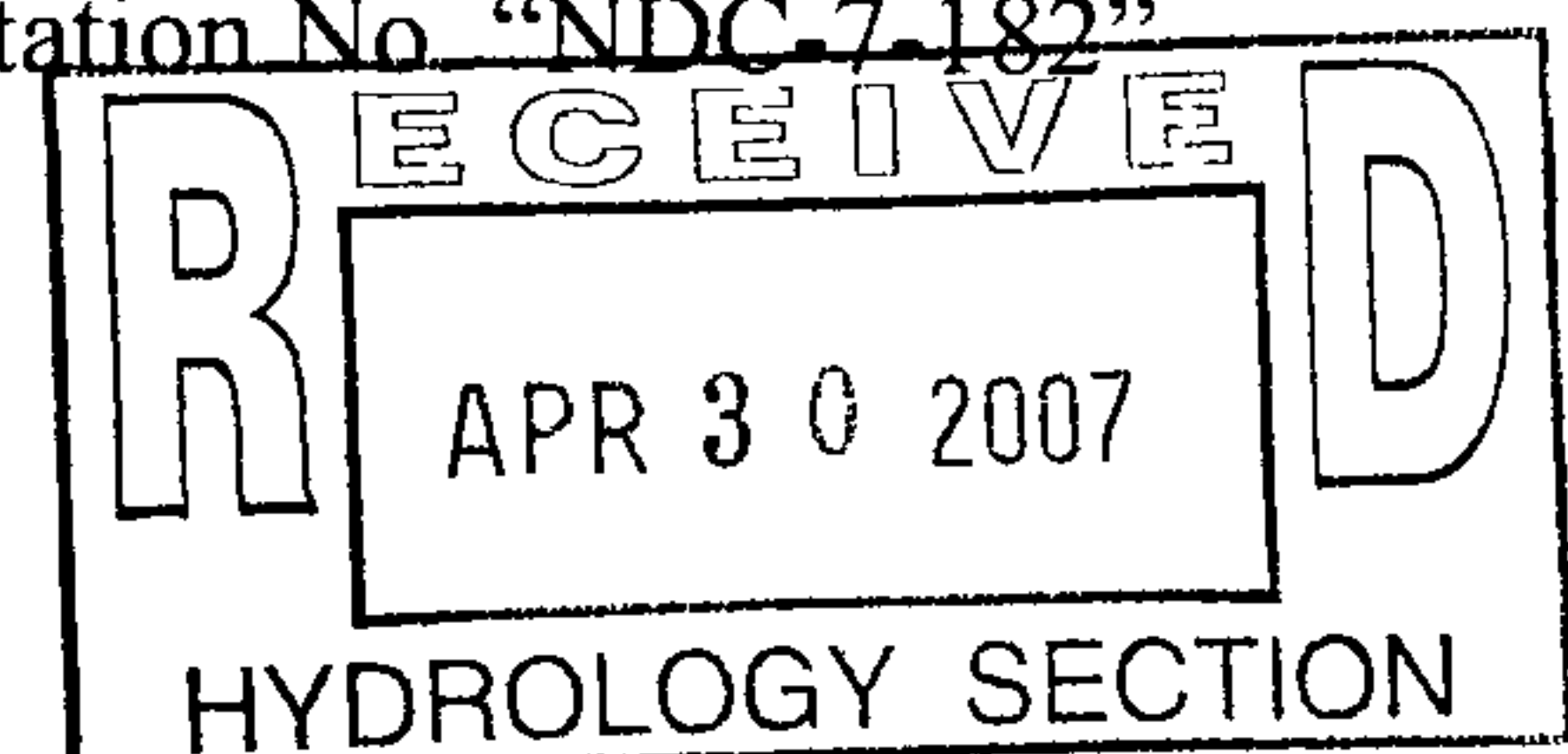
A Zone Atlas Map identifying the location is included in the Architectural data for your use. In addition, the corresponding FIRM Map 35001C0136F is also attached. As can be seen the property lies in the area Designated Zone X, Areas determined to be outside the 500-year floodplain.

## **DRAINAGE PLAN**

**Site Location** - As shown by the Vicinity Map C-16-Z, the 0.65-acre site is located approximately 200 feet east of the intersection of Paseo Alameda and Calle Alameda within the Alameda Business Park. The property is approximately 110 feet wide by 225 feet long. At present, the site is vacant. The properties surrounding the subject site are developed with commercial enterprises. The lot on which the proposed facility is to be constructed is part of an overall Special Use Permit issued by the City of Albuquerque for a business park.

**Legal Description** - Lot 45 Alameda Business Park, Albuquerque, New Mexico. The property boundary shown on this Plan is given for information only to describe the project limits. Property boundary information shown hereon does not constitute a boundary survey.

**Survey** - Prepared by Harris Surveying and compiled from field measurement in March 2006. The benchmark for this property is based on Albuquerque Control Station No. "NDC-7-182" having an elevation of 5-64.50.





**Flood Zone** - As shown by Panel 136 of 825 of the National Flood Insurance Program Flood Boundary and Floodway Maps for the City of Albuquerque, New Mexico, dated November 19, 2003, this site lies outside the limits of the 100-year flood event.

**Hydrologic Methods** - The calculations attached analyze developed conditions for the 100-year, 6-hour and 100-year 10-day rainfall events. The process outlined in the DPM, Section 22.2 for Zone 2 was used to quantify the peak flow rates and volumes. As shown by these calculations, the proposed improvements generate 2.03-cfs above the existing conditions on the property.

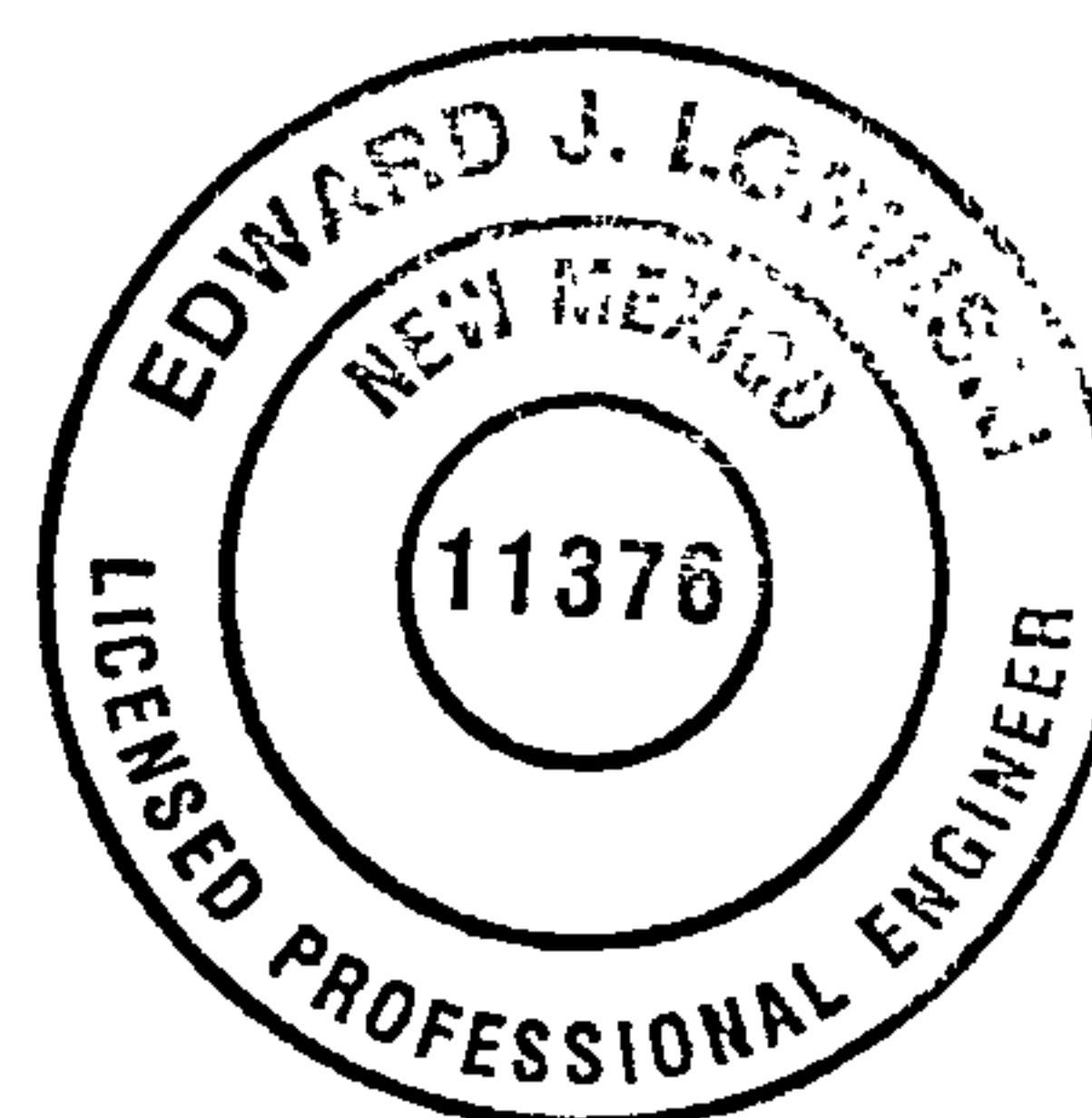
**Existing Conditions** - Offsite runoff does not impact the project site. Flows within site travel towards the southwest and the valley floor. The existing site is covered with vegetation and should be considered a soil type "A" under the present condition. Flows generated within lot are discharged over the curb and gutter into the street or onto the adjoining property to the west.. At present a total of 1.02-cfs are generated within the on-site basins.

**Proposed Conditions** - The Owner is proposing to construct a single-story 8400 square foot warehouse and office building on the subject property. All flow from the roof area will be collected in roof drains to include overflow drains. These drain lines will discharge directly to the ground with erosion protection provided by splash blocks and rock surfacing. Calculations were run under the worst case scenario assuming that the entire lot was considered land treatment "A" where in fact some could be considered treatment "B". As can be seen from the attached calculations the net increase in flow over current volumes is 2.03-cfs under the 100-year event.

**Erosion Control Measures/SWPPP/BMPs** - This site is fully contained and does not discharge into an MS4 or Waters of the United States. The contractor shall ensure that no soil erodes from the site into public right-of-way or onto private property. This can be achieved by constructing temporary silt fences at the property lines and wetting the soil to keep it from blowing. A copy of the BMP for protecting the site is attached and shall be fully implemented during the time of construction. In addition, a copy of the Construction Activities Storm Water Program Permitting Decision Tree is highlighted and attached for your use. The contractor shall promptly clean up any material excavated so that the excavated material is not susceptible to being washed down gradient or into the storage tanks. The contractor shall secure Topsoil Disturbance Permits prior to beginning construction.

Sincerely,

Edward J. Losinski, P.E.  
Principal





TOTAL AREA (acre)	0.3	Allowable Discharge (cfs)	4.0
Precipitation Zone	2	Discharge Volume (ft <sup>3</sup> )	30856
TOTAL AREA (ft <sup>2</sup> )	13939	Required Pond Volume (ft <sup>3</sup> )	31472

Treatment Type	Acreage	Square Footage	Treatment Percentage
A	0.32	13,939	100.0%
B	0.00	0	0.0%
C	0.00	0	0.0%
D	0.00	0	0.0%

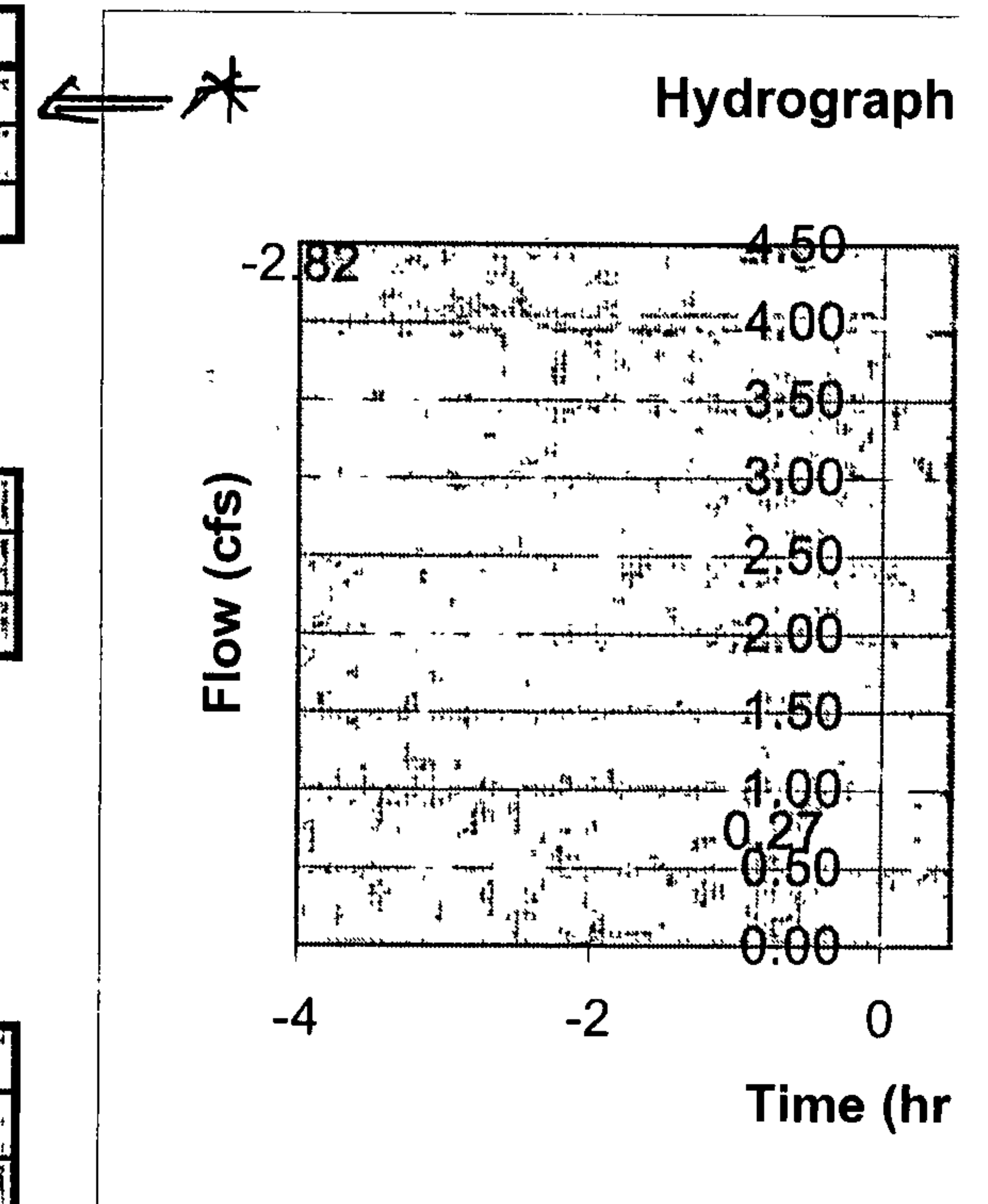
6-hour Storm	Peak Method	Rational Method
100-year Peak Discharge (cfs)	0.50	0.50
10-year Peak Discharge (cfs)	0.12	0.12
2-year Peak Discharge (cfs)	0.00	0.00

Excess Precipitation (in.) 100-year	0.53
Excess Precipitation (in.) 10-year	0.13
Excess Precipitation (in.) 2-year	0.00

100-year 6-hr Runoff Volume (acre-feet, ft <sup>3</sup> )	0.01	616
10-year 6-hr Runoff Volume (acre-feet, ft <sup>3</sup> )	0.00	151
2-year 6-hr Runoff Volume (acre-feet, ft <sup>3</sup> )	0.00	0

P <sub>1-hr</sub> (in.)	2.01
P <sub>6-hr</sub> (in.)	2.35
P <sub>24-hr</sub> (in.)	2.75
P <sub>4-day</sub> (in.)	3.30
P <sub>10-day</sub> (in.)	3.95

100-year 10-day Runoff Volume (acre-feet, ft <sup>3</sup> )	0.01	616
100-year 4-day Runoff Volume (acre-feet, ft <sup>3</sup> )	0.01	616
100-year 24-hr Runoff Volume (acre-feet, ft <sup>3</sup> )	0.01	616



*Basin 1 Existing Conditions*



TOTAL AREA (acre)	0.3	Allowable Discharge (cfs)	4.0
Precipitation Zone	2	Discharge Volume (ft <sup>3</sup> )	1456
TOTAL AREA (ft <sup>2</sup> )	13939	Required Pond Volume (ft <sup>3</sup> )	1007

Treatment Type	Acreage	Square Footage	Treatment Percentage
A	0.00	0	0.0%
B	0.00	0	0.0%
C	0.00	0	0.0%
D	0.32	13939	100.0%

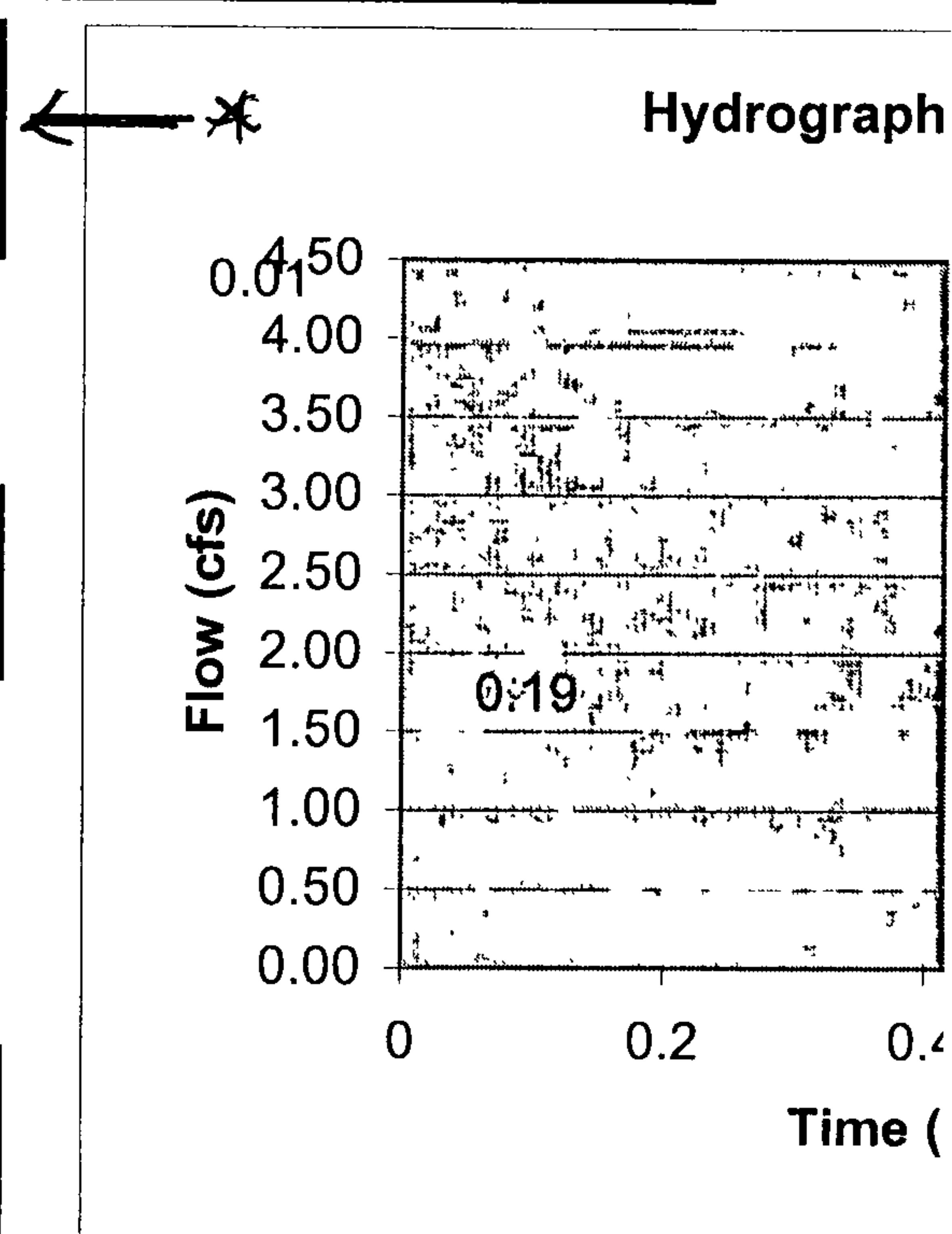
6-hour Storm	Peak Method	Rational Method
100-year Peak Discharge (cfs)	1.50	1.50
10-year Peak Discharge (cfs)	1.00	1.00
2-year Peak Discharge (cfs)	0.60	0.59

Excess Precipitation (in.) 100-year	2.12
Excess Precipitation (in.) 10-year	1.34
Excess Precipitation (in.) 2-year	0.79

100-year 6-hr Runoff Volume (acre-feet, ft <sup>3</sup> )	0.06	2463
10-year 6-hr Runoff Volume (acre-feet, ft <sup>3</sup> )	0.04	1557
2-year 6-hr Runoff Volume (acre-feet, ft <sup>3</sup> )	0.02	918

P <sub>1-hr</sub> (in.)	2.01
P <sub>6-hr</sub> (in.)	2.35
P <sub>24-hr</sub> (in.)	2.75
P <sub>4-day</sub> (in.)	3.30
P <sub>10-day</sub> (in.)	3.95

100-year 10-day Runoff Volume (acre-feet, ft <sup>3</sup> )	0.10	4321
100-year 4-day Runoff Volume (acre-feet, ft <sup>3</sup> )	0.08	3566
100-year 24-hr Runoff Volume (acre-feet, ft <sup>3</sup> )	0.07	2927



*Basin 1 Post Development*

TOTAL AREA (acre)	0.3	Allowable Discharge (cfs)	4.0
Precipitation Zone	2	Discharge Volume (ft <sup>3</sup> )	29609
TOTAL AREA (ft <sup>2</sup> )	14375	Required Pond Volume (ft <sup>3</sup> )	30244

Treatment Type	Acreage	Square Footage	Treatment Percentage
A	0.33	14,375	100.0%
B	0.00	0	0.0%
C	0.00	0	0.0%
D	0.00	0	0.0%

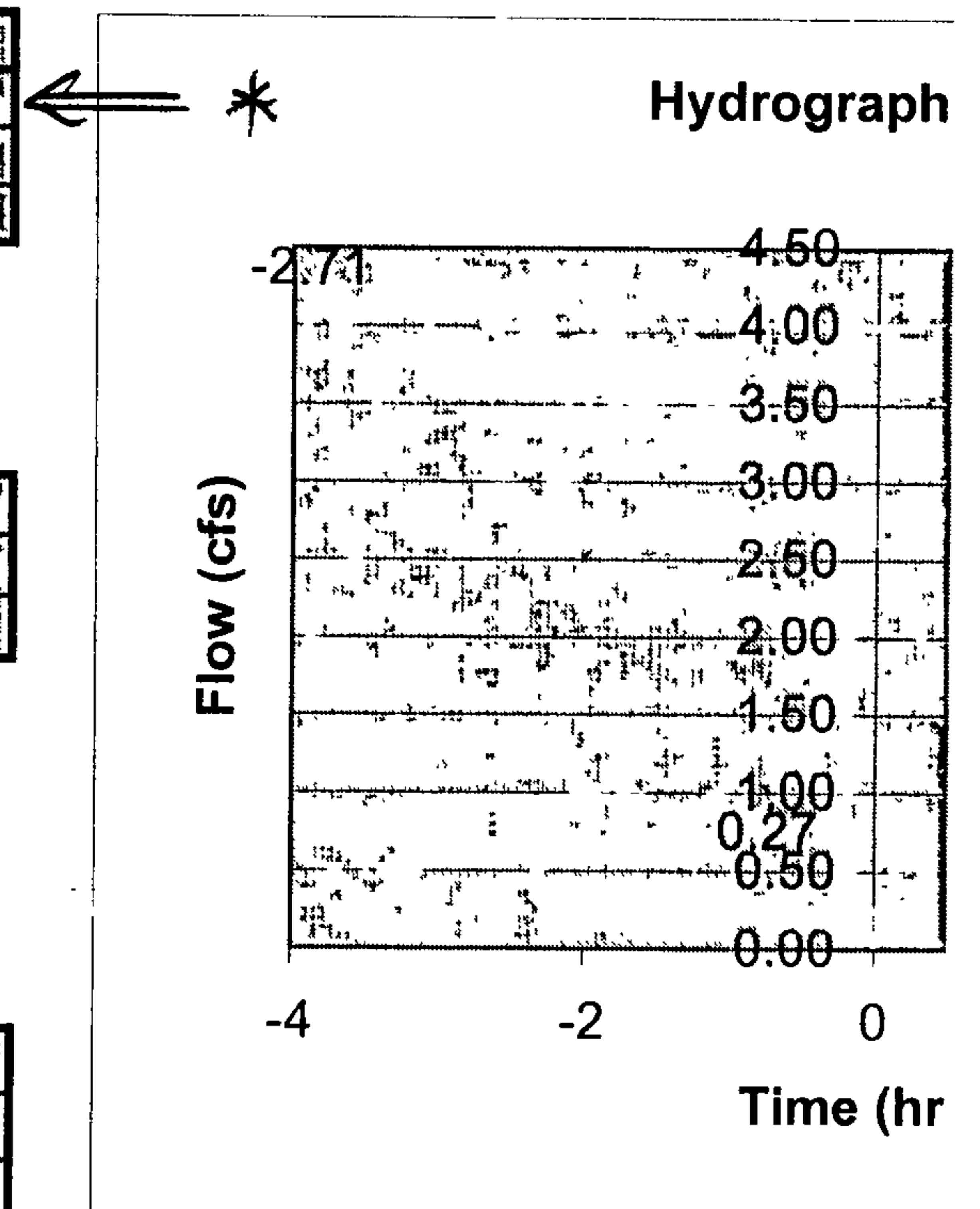
6-hour Storm	Peak Method	Rational Method
100-year Peak Discharge (cfs)	0.51	0.52
10-year Peak Discharge (cfs)	0.13	0.12
2-year Peak Discharge (cfs)	0.00	0.00

Excess Precipitation (in.) 100-year	0.53
Excess Precipitation (in.) 10-year	0.13
Excess Precipitation (in.) 2-year	0.00

100-year 6-hr Runoff Volume (acre-feet, ft <sup>3</sup> )	0.01	635
10-year 6-hr Runoff Volume (acre-feet, ft <sup>3</sup> )	0.00	156
2-year 6-hr Runoff Volume (acre-feet, ft <sup>3</sup> )	0.00	0

P <sub>1-hr</sub> (in.)	2.01
P <sub>6-hr</sub> (in.)	2.35
P <sub>24-hr</sub> (in.)	2.75
P <sub>4-day</sub> (in.)	3.30
P <sub>10-day</sub> (in.)	3.95

100-year 10-day Runoff Volume (acre-feet, ft <sup>3</sup> )	0.01	635
100-year 4-day Runoff Volume (acre-feet, ft <sup>3</sup> )	0.01	635
100-year 24-hr Runoff Volume (acre-feet, ft <sup>3</sup> )	0.01	635



*Basin 2 Existing Conditions*



TOTAL AREA (acre)	0.3	Allowable Discharge (cfs)	4.0
Precipitation Zone	2	Discharge Volume (ft <sup>3</sup> )	1718
TOTAL AREA (ft <sup>2</sup> )	14375	Required Pond Volume (ft <sup>3</sup> )	822

Treatment Type	Acreage	Square Footage	Treatment Percentage
A	0.00	0	0.0%
B	0.00	0	0.0%
C	0.00	0	0.0%
D	0.33	14,375	100.0%

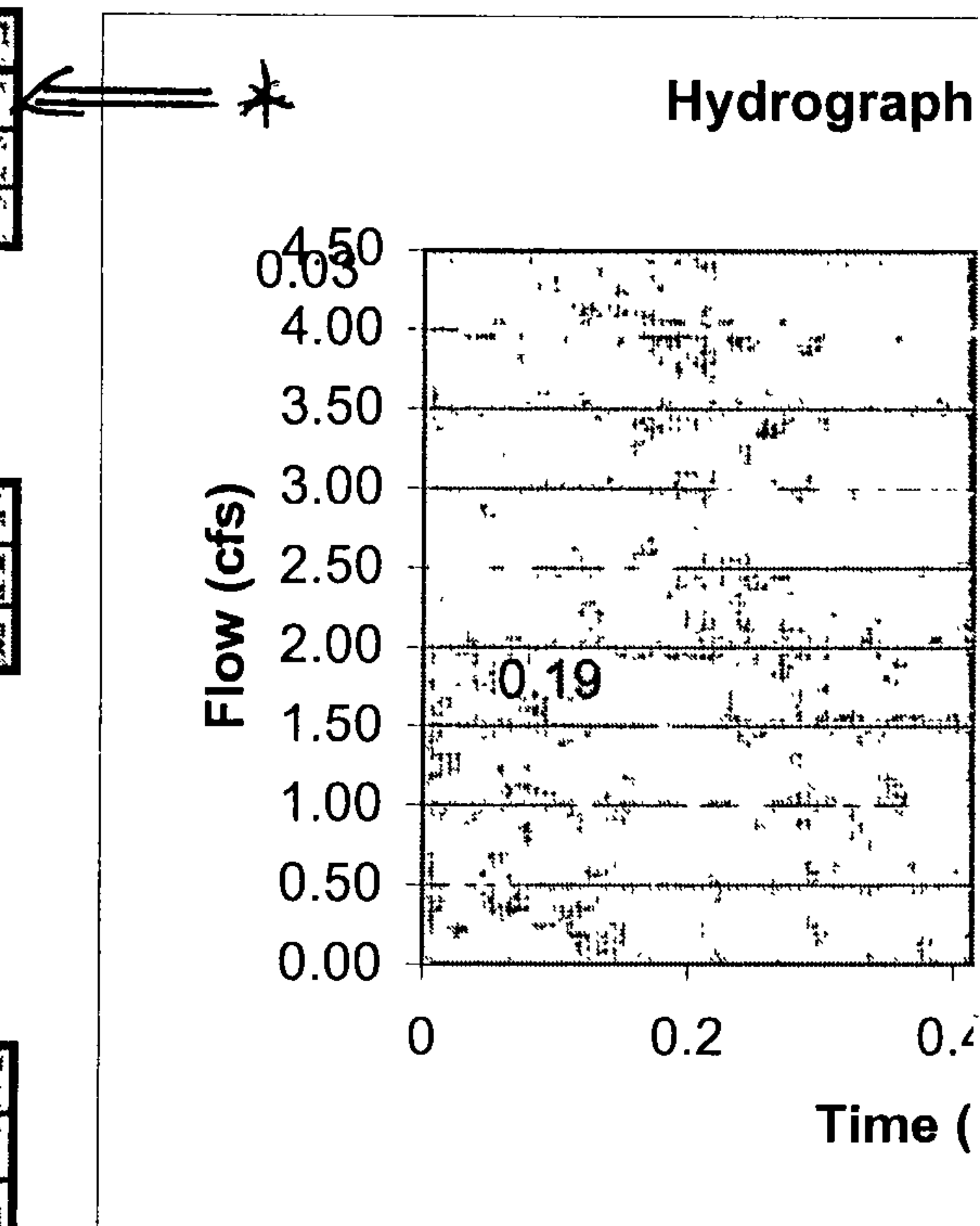
6-hour Storm	Peak Method	Rational Method
100-year Peak Discharge (cfs)	1.55	1.55
10-year Peak Discharge (cfs)	1.04	1.04
2-year Peak Discharge (cfs)	0.61	0.61

Excess Precipitation (in.) 100-year	2.12
Excess Precipitation (in.) 10-year	1.34
Excess Precipitation (in.) 2-year	0.79

100-year 6-hr Runoff Volume (acre-feet, ft <sup>3</sup> )	0.06	2,540
10-year 6-hr Runoff Volume (acre-feet, ft <sup>3</sup> )	0.04	1,605
2-year 6-hr Runoff Volume (acre-feet, ft <sup>3</sup> )	0.02	946

P <sub>1-hr</sub> (in.)	2.01
P <sub>6-hr</sub> (in.)	2.35
P <sub>24-hr</sub> (in.)	2.75
P <sub>4-day</sub> (in.)	3.30
P <sub>10-day</sub> (in.)	3.95

100-year 10-day Runoff Volume (acre-feet, ft <sup>3</sup> )	0.10	4,456
100-year 4-day Runoff Volume (acre-feet, ft <sup>3</sup> )	0.09	3,678
100-year 24-hr Runoff Volume (acre-feet, ft <sup>3</sup> )	0.07	3,019



*Basin 2 Post Development*