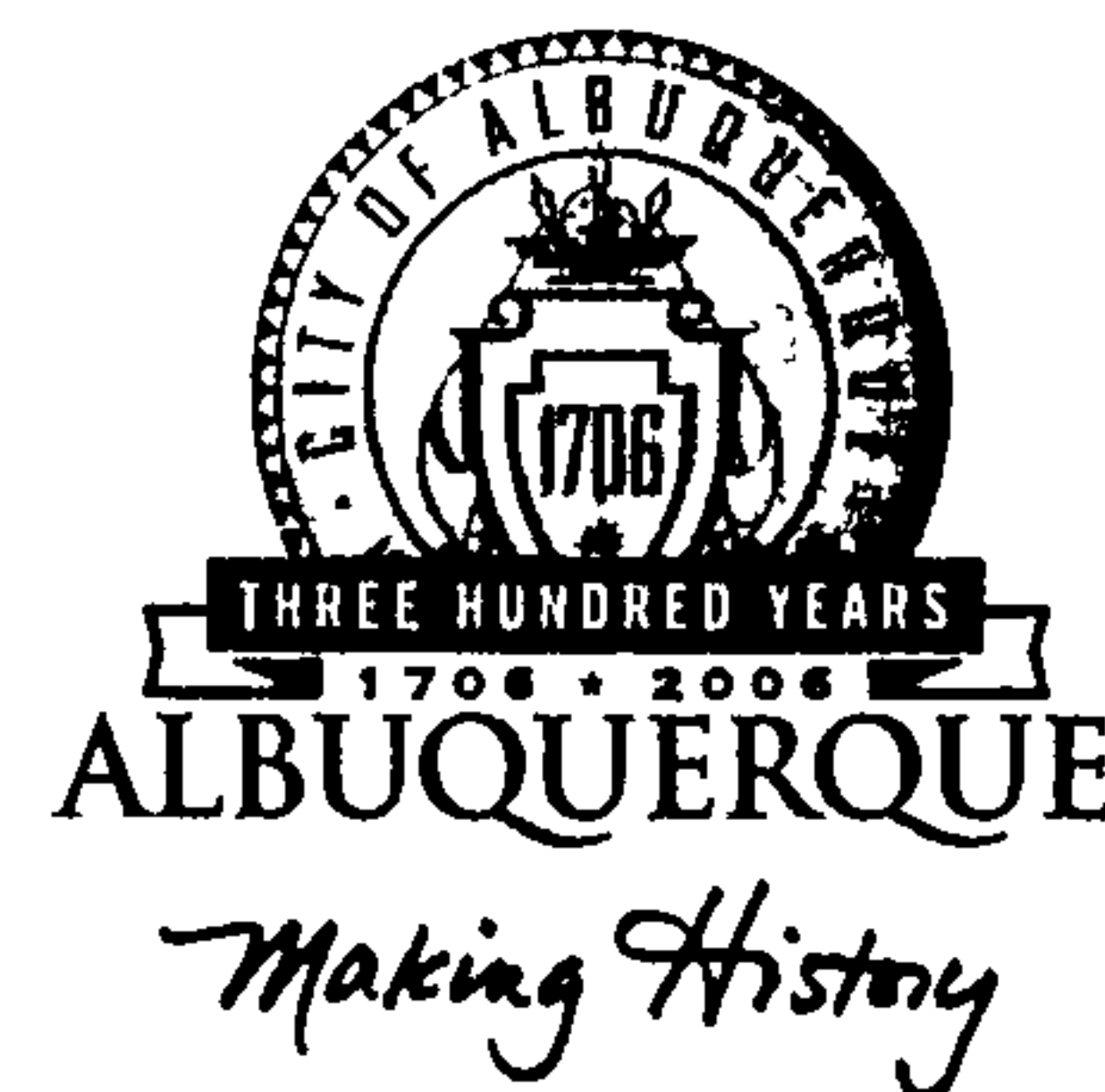


# CITY OF ALBUQUERQUE



February 20, 2006

Mr. Guy Jackson, P.E.  
**ASCG AND GJA**  
6501 Americas Parkway NE, Suite 400  
Albuquerque, NM 87110

**Re: AUTOZONE 2 QUAIL & 57<sup>TH</sup> STREET**  
**5700 Quail Rd. NW**  
**Approval of Permanent Certificate of Occupancy (C.O.)**  
**Engineer's Stamp dated 02/14/2005 (H-11/D65)**  
**Certification dated 02/17/2006**

Dear Guy,

P.O. Box 1293

Based upon the information provided in your submittal received 02/17/2006, 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,

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

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

C: CO Clerk  
File

## DRAINAGE INFORMATION SHEET

PROJECT TITLE AutoZone @ Quail & 5<sup>th</sup> ZONE ATLAS/DRWG. FILE # H-11 / D65

DRB#: 1101275 EPC # \_\_\_\_\_ WORK ORDER # \_\_\_\_\_

LEGAL DESCRIPTION: Tract C-1 of Tracts A-1 and C-1 Albuquerque West, Albuquerque New Mexico

CITY ADDRESS: 5700 Quail Rd. NW

ENGINEERING FIRM: ASCG and GJA CONTACT: Guy Jackson, GJA

ADDRESS: 6501 Americas Parkway NE, Suite 400, 87110 PHONE: 235-1426

OWNER: AutoZone, Inc. CONTACT: Arthur Nave

ADDRESS: 123 South Front St. Memphis TN, 38103 PHONE: 901-495-8714

ARCHITECT: See Owner CONTACT: See Owner  
ADDRESS: \_\_\_\_\_ PHONE: See Owner

SURVEYOR: Harris Surveying CONTACT: Tony Harris

ADDRESS: 2412 Monroe, NE PHONE: 889-8056

CONTRACTOR: --- JCS Johnson CONTACT: Dean Mobley

ADDRESS: --- PHONE: 972-488-9900

TYPE OF SUBMITTAL:

CHECK TYPE OF APPROVAL SOUGHT:

☐ DRAINAGE REPORT  
☐ DRAINAGE PLAN  
☐ CONCEPTUAL GRADING & DRAINAGE PLAN  
☐ GRADING PLAN  
☐ EROSION CONTROL PLAN  
☒ ENGINEER'S CERTIFICATION  
☐ OTHER \_\_\_\_\_

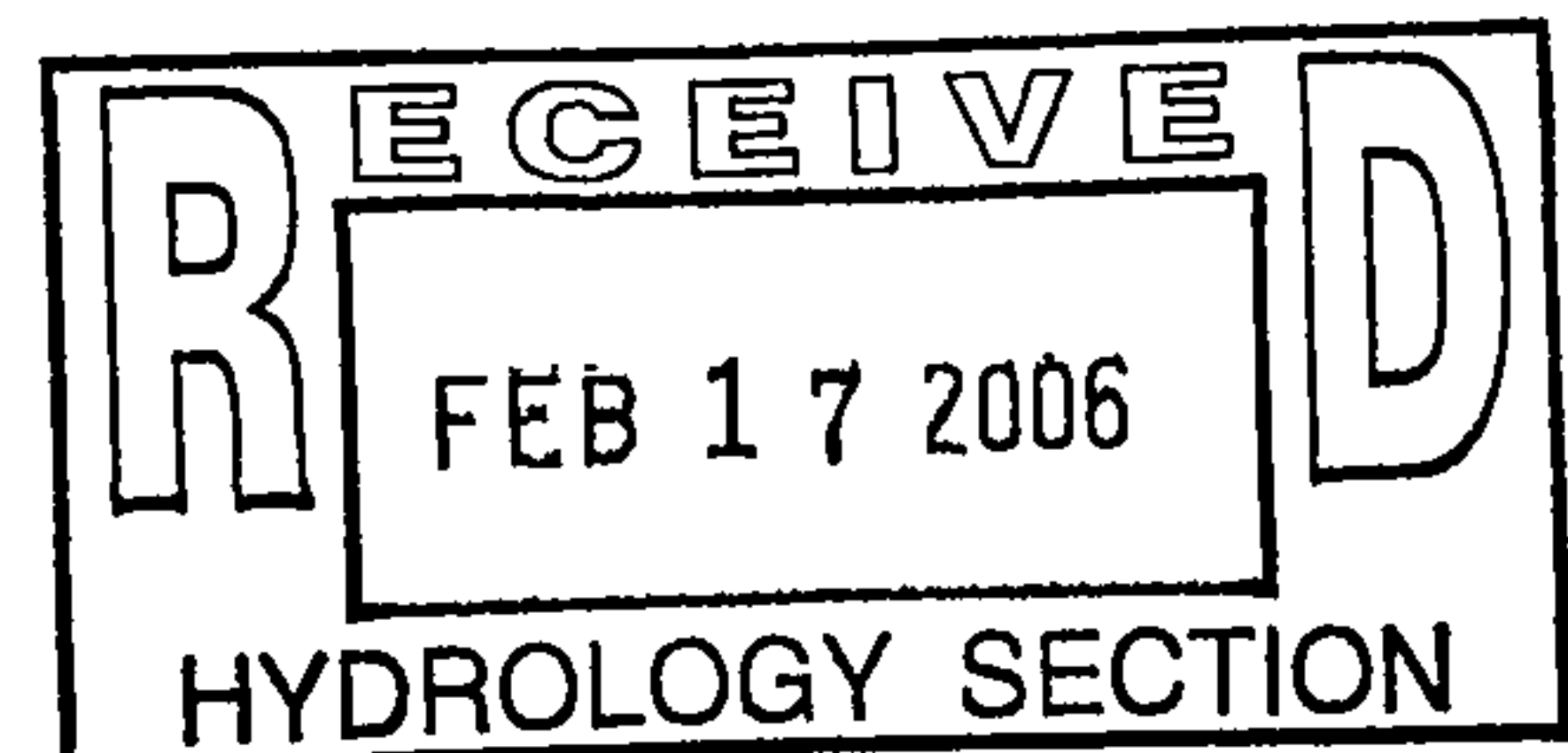
PRE-DESIGN MEETING:

☐ YES  
☐ NO  
☐ COPY PROVIDED

☐ SKETCH PLAT APPROVAL  
☐ PRELIMINARY PLAT APPROVAL  
☐ S. DEV. PLAN FOR SUB'D APPROVAL  
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL  
☐ SECTOR PLAN APPROVAL  
☐ FINAL PLAT APPROVAL  
☐ BUILDING PERMIT APPROVAL  
☒ CERTIFICATE OF OCCUPANCY APPROVAL  
☐ GRADING PERMIT APPROVALS  
☐ PAVING PERMIT APPROVAL  
☐ S.A.B. DRAINAGE REPORT  
☐ DRAINAGE REQUIREMENTS

DATE SUBMITTED: February 17, 2006

BY: Guy Jackson, PE



February 17, 2006

Bradley L. Bingham, PE  
Section Head, Hydrology  
Development & Building Services Division  
Planning Department  
PO Box 1293  
Albuquerque, New Mexico 87103

**Re:   *AutoZone –5700 Quail Rd. NW, Albuquerque, NM***  
**(Zone Atlas Map H-11)**

Dear Brad:

Attached for Final Certificate of Occupancy request are the following:

One Certified Grading Plan  
One Revised Drainage Plan  
One Revised Calcs

Please review my certification on the attached plans requesting approval of the site for Certificate of Occupancy based upon my recommendations...

If you have any questions, please contact me at (505) 235-1426.

Sincerely,

A handwritten signature in black ink, appearing to read 'Guy Jackson', with a long horizontal line extending to the right.

Guy Jackson & Associates, LLC  
*President*

# BPLW

Architects and Engineers

PROJECT AUTOZONE 57TH & QUAIL  
 PROJECT NO. A04029  
 DATE 02/17/06  
 BY Guy Jackson

## DPM Section 22.2 - Hydrology

Part A-Watersheds less than 40 acres.  
 January, 1993

### INSTRUCTIONS

- \* Spread sheet requires three input areas (dark cells):
  - Location
    - >A.1 Precipitation Zone
    - >A.3 Land Treatments
- \* Values from the tables are automatically placed using "if" statements.
- \* Table values should be checked for correctness for each use.

### SUMMARY

Location	BASIN 1	BASIN 2	BASIN 3	TOTALS	
Precipitation Zone	1	1	1	1	
Land Area	0.52	0.32	0.63	1.47	acres
Excess Precipitation Volume					
>>> 100-year 6-hour (design)	0.07	0.04	0.04	0.14	acre-ft.
10-year 6-hour	0.04	0.02	0.01	0.08	acre-ft.
2-year 6-hour	0.02	0.01	0.00	0.04	acre-ft.
100-year 24-hour	0.08	0.05	0.04	0.17	acre-ft.
Peak Discharge Rates (DPM)					
>>> Q100 (design)	1.90	1.16	1.28	4.34	cfs
Q10	1.16	0.71	0.48	2.35	cfs
Q2	0.61	0.37	0.02	1.01	cfs

CALCULATIONS FOLLOW

## INPUT AND CALCULATIONS

LOCATION	BASIN 1	BASIN 2	BASIN 3	TOTALS	
>A.1 PRECIPITATION ZONE (from Table A-1)	1	1	1	1	
>A.2 DEPTHS					
(from Table A-2)					
100-YEAR STORM (P60)	1.87	1.87	1.87	1.87	inches
100-YEAR STORM (P360)	2.20	2.20	2.20	2.20	inches
100-YEAR STORM (P1440)	2.66	2.66	2.66	2.66	inches
10-YEAR (P360) (Calculated: P360*RPF10)	1.47	1.47	1.47	1.47	inches
2-YEAR (P360) (Calculated: P360*RPF2)	0.95	0.95	0.95	0.95	inches
>A.3 LAND TREATMENTS (AI)					
Treatment A	0.00	0.00	0.00	0.00	acres
Treatment B	0.16	0.10	0.63	0.89	acres
Treatment C	0.00	0.00	0.00	0.00	acres
Treatment D	0.36	0.22	0.00	0.58	acres
Total Area	0.52	0.32	0.63	1.47	acres
=====					
>A.4 ABSTRACTIONS	See A.5	See A.5	See A.5	See A.5	

CALCULATIONS FOLLOW

## INPUT AND CALCULATIONS (CON'T)

>A.5 EXCESS PRECIPITATION 6 HOUR AND 24 HOUR (EI)					
from Table A-8			TOTALS		
100-year 6-hour					
Treatment A	0.44	0.44	0.44	0.44	inches
Treatment B	0.67	0.67	0.67	0.67	inches
Treatment C	0.99	0.99	0.99	0.99	inches
Treatment D	1.97	1.97	1.97	1.97	inches
WEIGHTED E (Sum EI*A/A)	1.57	1.56	0.67	1.18	inches
VOLUME V100:6h (E*A)	0.07	0.04	0.04	0.14	acre-ft.
	2,963.53	1,816.45	1,532.22	6,312.21	ft^3
=====					
10-year 6-hour					
Treatment A	0.08	0.08	0.08	0.08	inches
Treatment B	0.22	0.22	0.22	0.22	inches
Treatment C	0.44	0.44	0.44	0.44	inches
Treatment D	1.24	1.24	1.24	1.24	inches
WEIGHTED E (Sum EI*A/A)	0.93	0.92	0.22	0.62	inches
VOLUME V10:6h (E*A)	0.04	0.02	0.01	0.08	acre-ft.
	1,748.21	1,070.12	503.12	3,321.45	ft^3
=====					
2-year 6-hour					
Treatment A	0.00	0.00	0.00	0.00	inches
Treatment B	0.01	0.01	0.01	0.01	inches
Treatment C	0.12	0.12	0.12	0.12	inches
Treatment D	0.72	0.72	0.72	0.72	inches
WEIGHTED E (Sum EI*A/A)	0.50	0.50	0.01	0.29	inches
VOLUME V2:6h (E*A)	0.02	0.01	0.00	0.04	acre-ft.
	946.70	578.62	22.87	1,548.20	ft^3
=====					
100-year 24-hour					
VOLUME V100:24h (V100-6h+Ad*P1440-P360)/12)	0.08	0.05	0.04	0.17	acre-ft.
	3,564.66	2,183.81	1,532.22	7,280.69	ft^3
=====					

CALCULATIONS FOLLOW



## INPUT AND CALCULATIONS (CON'T)

>A.6 PEAK DISCHARGE RATE FOR SMALL WATERSHEDS (QI)					
from Table A-9					
100-year				TOTALS	
Treatment A	1.29	1.29	1.29	1.29	cfs/acre
Treatment B	2.03	2.03	2.03	2.03	cfs/acre
Treatment C	2.87	2.87	2.87	2.87	cfs/acre
Treatment D	4.37	4.37	4.37	4.37	cfs/acre
Q100 (Sum QI*AI)	1.90	1.16	1.28	4.34	cfs
=====					
10-year					
Treatment A	0.24	0.24	0.24	0.24	cfs/acre
Treatment B	0.76	0.76	0.76	0.76	cfs/acre
Treatment C	1.49	1.49	1.49	1.49	cfs/acre
Treatment D	2.89	2.89	2.89	2.89	cfs/acre
Q10 (Sum QI*AI)	1.16	0.71	0.48	2.35	cfs
=====					
2-year					
Treatment A	0.00	0.00	0.00	0.00	cfs/acre
Treatment B	0.03	0.03	0.03	0.03	cfs/acre
Treatment C	0.47	0.47	0.47	0.47	cfs/acre
Treatment D	1.69	1.69	1.69	1.69	cfs/acre
Q2 (Sum QI*AI)	0.61	0.37	0.02	1.01	cfs
=====					

CALCULATIONS FOLLOW

## **DEVELOPED CONDITIONS AND DRAINAGE PATTERNS**

THE PROPOSED SITE WILL BE SPLIT INTO THREE (3) DIFFERENT SUBBASINS. BY USE OF DETENTION PONDS TO BE LOCATED IN THE NORTHEASTERN PORTION OF THE SITE ADJACENT TO 57TH ST. THE TOTAL DEVELOPED DISCHARGE FROM THE SITE WILL BE CONTROLLED TO THE HISTORIC 100YR-6 HOUR EVENT.

PROPOSED BASIN 1 WILL CONSIST OF 0.52AC WITH AN ANTICIPATED FLOWRATE OF 1.9 CFS. THIS DISCHARGE WILL BE CONTROLLED TO 1.5 CFS BY THE USE OF DETENTION PONDS, A PERFORATED COVER AND AN 18-INCH CONNECTION TO THE EXISTING 43" x 68" STORM DRAIN IN 57TH ST. WHICH FLOWS SOUTH.

PROPOSED BASIN 2 WILL CONSIST OF 0.32AC WITH A DISCHARGE RATE OF 1.16 CFS. THESE DEVELOPED FLOWS WILL DRAIN DIRECTLY NORTH INTO THE QUAIL RD. RIGHT-OF-WAY AND EXISTING STORM SYSTEM. THIS EXISTING STORM DRAIN THEN FLOWS EAST WHERE IT JOINS THE EXISTING 43" X 68" STORM DRAIN IN 57TH ST. AS DESCRIBED ABOVE.

PROPOSED BASIN 3 HAS A CONTRIBUTING AREA OF 0.63ACRES AND A DISCHARGE RATE OF 1.28 CFS WHICH WILL CONTINUE TO FLOW EAST INTO THE 57TH ST. RIGHT-OF-WAY. IT IS ANTICIPATED THAT THIS BASIN WILL REMAIN UNDEVELOPED DURING THE CONSTRUCTION OF THE AUTOZONE SITE.

## **CALCULATIONS**

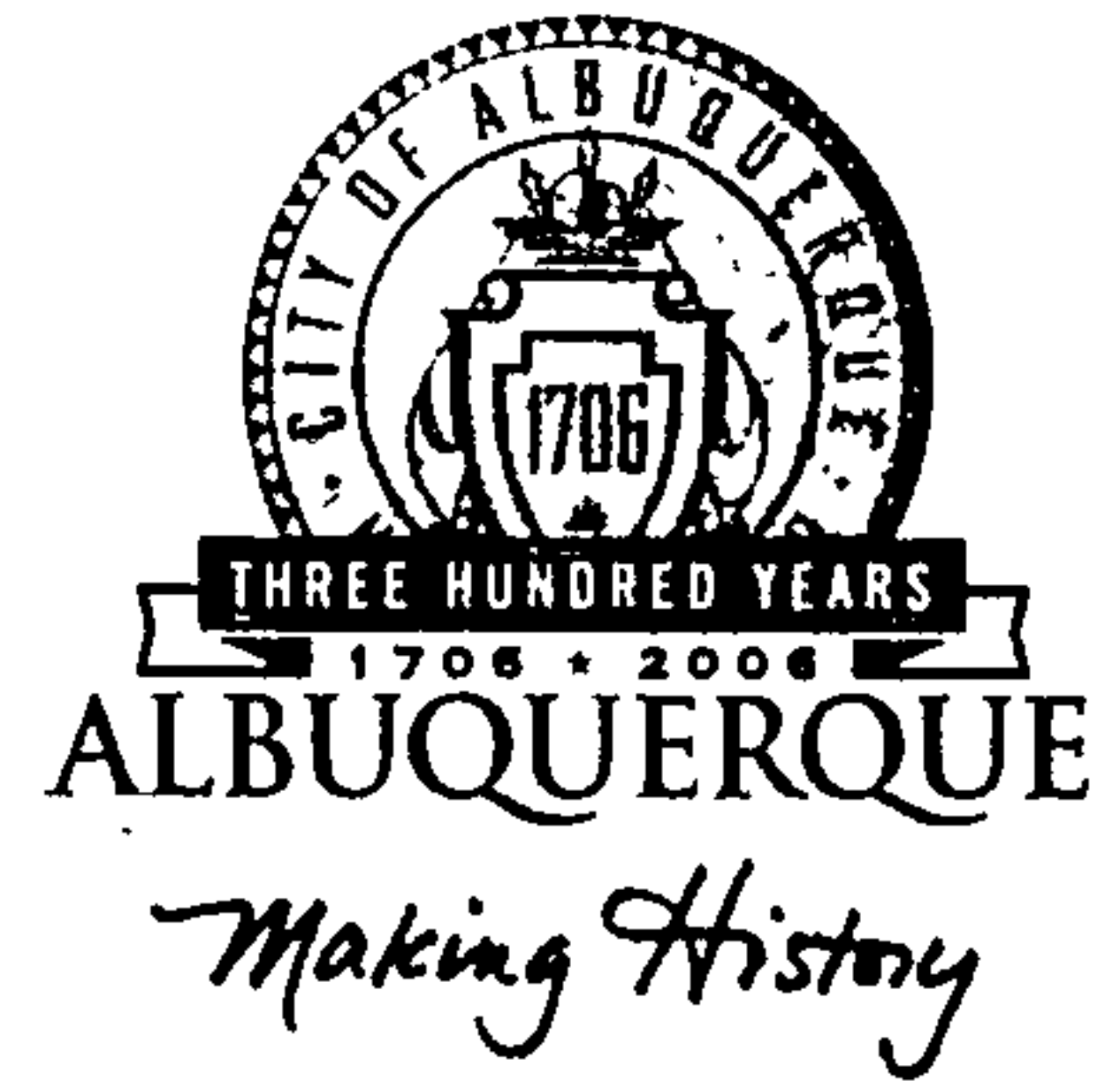
THE CALCULATIONS, WHICH ARE ATTACHED, ANALYZE BOTH THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40-ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY, 1993, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED.

## **CONCLUSION**

AS STATED ABOVE, THE NET DEVELOPED FLOWS FROM THE PROPOSED THREE BASINS ( $1.5\text{CFS} + 1.16\text{CFS} + 1.28\text{CFS} = 3.94\text{CFS}$ ), WHICH IS APPROXIMATELY 0.94 CFS GREATER THAN THE HISTORIC DISCHARGE RATE OF 3.0CFS DESCRIBED IN THE EXISTING CONDITIONS.



# CITY OF ALBUQUERQUE



**Planning Department  
Transportation Development Services Section**

November 3, 2004

Guy Jackson, P.E.  
6501 Americas Parkway NE, Ste. 400  
Albuquerque, NM 87110

Re: Certification Submittal for Final Building Certificate of Occupancy for  
Auto Zone, [H-11 / D65]  
5700 Quail Rd NW  
Engineer's Stamp Dated 11/03/05

Dear Mr. Jackson:

P.O. Box 1293

The TCL / Letter of Certification submitted on November 3, 2005 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Albuquerque

Sincerely,

New Mexico 87103

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

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

c: Engineer  
Hydrology file  
CO Clerk

## DRAINAGE INFORMATION SHEET

PROJECT TITLE AutoZone

ZONE ATLAS/DRWG. FILE # H-11/D65

DRB#: 1101275

EPC # \_\_\_\_\_ WORK ORDER # \_\_\_\_\_

LEGAL DESCRIPTION: Tract C-1 of Tracts A-1 and C-1 Albuquerque West, Albuquerque New Mexico

CITY ADDRESS: 5700 Quail Rd. NW

ENGINEERING FIRM: ASCG and GJA

CONTACT: Guy Jackson, GJA

ADDRESS: 6501 Americas Parkway NE, Suite 400, 87110 PHONE: 235-1426

OWNER: AutoZone, Inc. CONTACT: Arthur Nave

ADDRESS: 123 South Front St. Memphis TN, 38103 PHONE: 901-495-8714

ARCHITECT: See Owner

CONTACT: See Owner

ADDRESS: \_\_\_\_\_

PHONE: See Owner

SURVEYOR: Harris Surveying

CONTACT: Tony Harris

ADDRESS: 2412 Monroe, NE

PHONE: 889-8056

CONTRACTOR: JCS Johnson

CONTACT: Dean Mobley

ADDRESS: \_\_\_\_\_

PHONE: 972-488-9900

TYPE OF SUBMITTAL:

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☒ ENGINEER'S CERTIFICATION (Traffic Circulation)
- ☐ OTHER \_\_\_\_\_

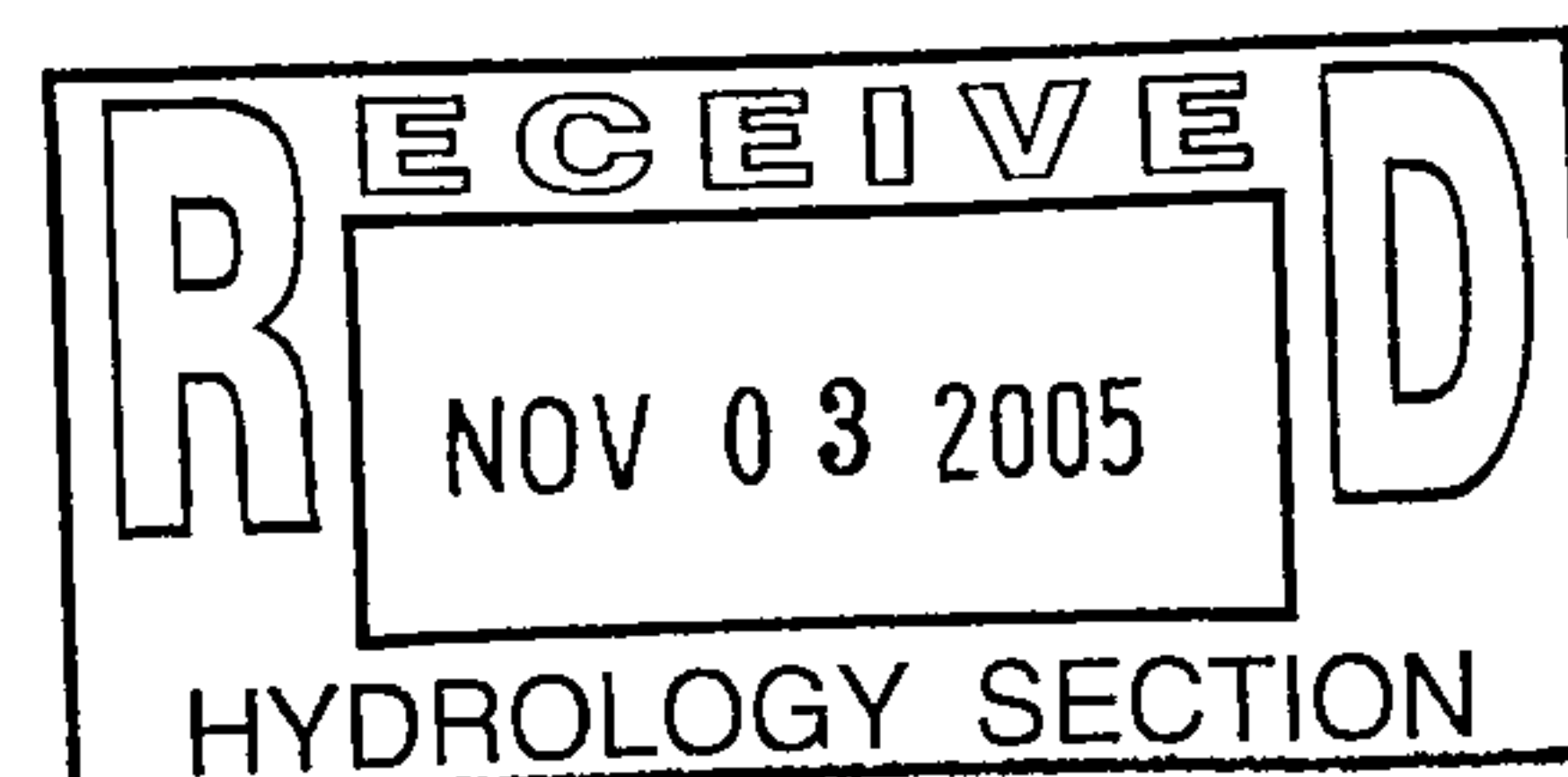
- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☒ CERTIFICATE OF OCCUPANCY APPROVAL - Perm
- ☐ GRADING PERMIT APPROVALS
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.B. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS

PRE-DESIGN MEETING:

- ☐ YES
- ☐ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: November 3, 2005

BY: Guy Jackson, PE



November 3, 2005

Nilo Salgado-Fernandez  
Transportation Development Section  
City of Albuquerque Public Works  
PO Box 1293  
Albuquerque, New Mexico 87103

**Re:   *AutoZone –5700 Quail Rd, Albuquerque, NM***  
**(H-11)**

Dear Nilo:

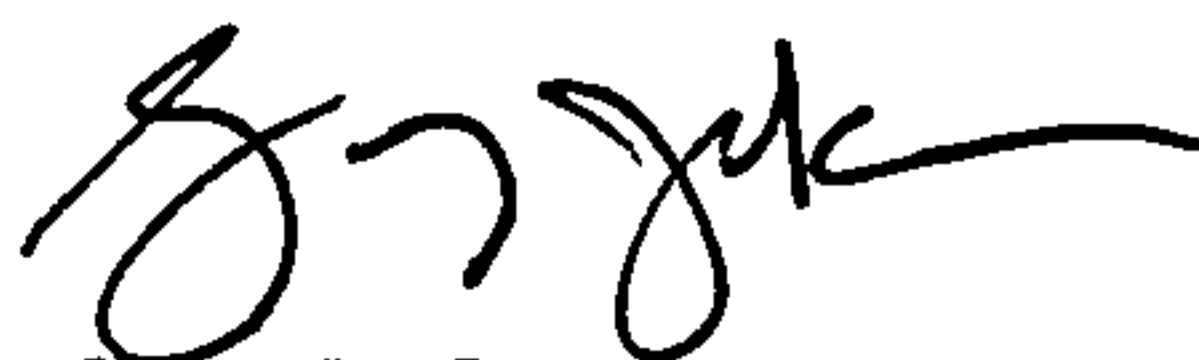
On behalf of ASCG I'm submitting the following documents for final Certificate of Occupancy:

- One (1) Drainage Information Sheet for Traffic Circulation Plan
- One (1) copy of the Certified Site Plan

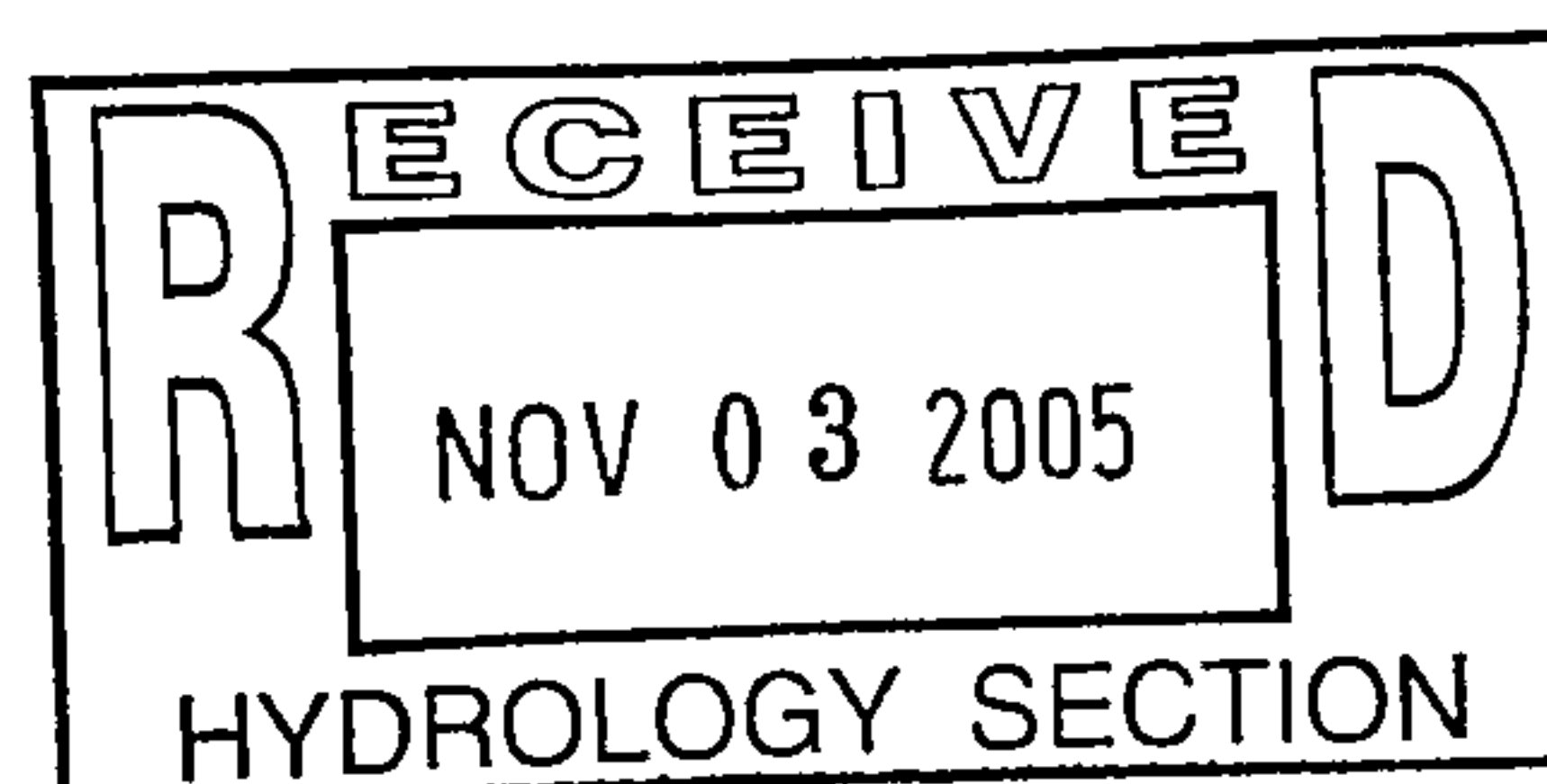
If you have any questions, please contact me at (505) 235-1426.

Sincerely,

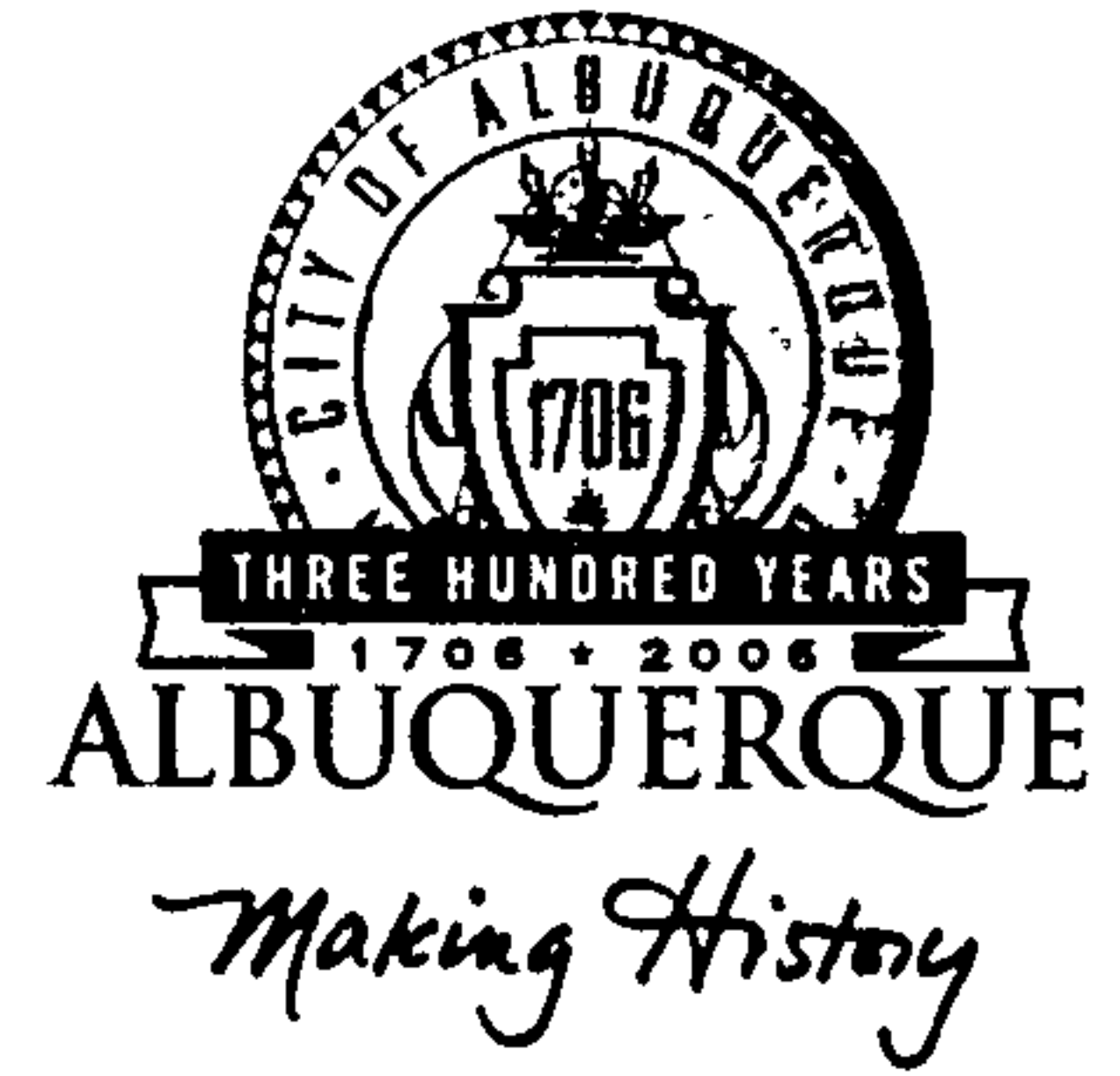
GUY JACKSON & ASSOCIATES, LLC



*Guy Jackson, PE*  
*President*  
235-1426



# CITY OF ALBUQUERQUE



November 2, 2005

Mr. Guy Jackson, P.E.  
**GUY JACKSON & ASSOCIATES, LLC**  
10522 Florence Ave. NE  
Albuquerque, NM 87122

**Re: AUTOZONE**  
**5700 Quail Rd. NW**  
**Approval of Temporary Certificate of Occupancy (C.O.)**  
**Approved Engineer's Stamp dated 02/14/2005 (H-11/D65)**  
**Certification dated 11/02/2005**

Dear Guy:

P.O. Box 1293

Based upon the information provided in your submittal received 11/02/2005, the above referenced certification is approved for release of 30-day Temporary Certificate of Occupancy by Hydrology.

Albuquerque

Upon acceptance of noted exception(s) and the required SO-19 listed in your Drainage Certification, please resubmit an updated Certification for Permanent C.O.

New Mexico 87103

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

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

Sincerely,

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

C: Phyllis Villanueva  
File

GJA

Guy Jackson &amp; Associates, LLC

Civil Engineering for Commercial and Residential Development

November 2, 2005

Bradley L. Bingham, PE  
Section Head, Hydrology  
Development & Building Services Division  
Planning Department  
PO Box 1293  
Albuquerque, New Mexico 87103

14-11/ D65

**Re: AutoZone - 5700 Quail Rd. NW, Albuquerque, NM**  
(Zone Atlas Map H-11)

Dear Brad:

The referenced property is anticipating opening their doors on Friday November 4, 2005. Although most of the site improvements have been completed, upon reviewing the mostly completed as-built information from the surveyor, there are numerous items that need to be addressed prior to submitting for Final Certificate of Occupancy. The items needing to be addressed or completed are as follows:

- 1) The grading west of the building has not been completed.
- 2) The curb cuts at the north entrance (Quail Rd.) and at the southeast portion of the property have not been installed.
- 3) The detention pond adjacent to 57<sup>th</sup> Street has not been graded to completion.
- 4) The elevations of the new pavement north of the building have not been built to design grades. The water block near the northwest corner of the building has not been constructed.
- 5) The retaining wall along the southern portion of the building (south property line) has not been installed.
- 6) As-builts have not been completed for the trash enclosure.

AutoZone's contractor has indicated to me that the items listed above will be addressed accordingly and are requesting a "Temporary Certificate of



Bradley L. Bingham  
November 2, 2005  
Page 2

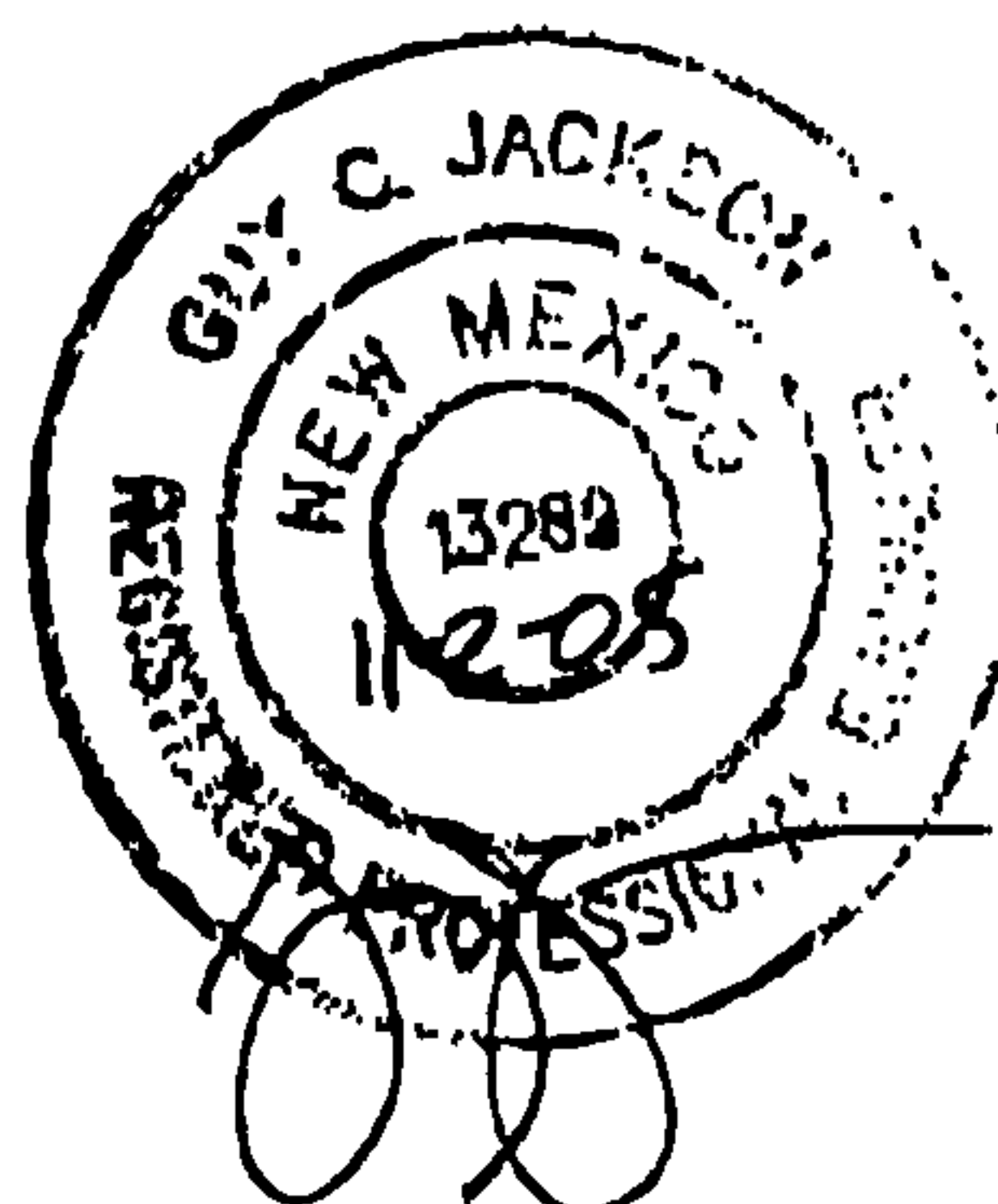
Occupancy" until the site meets the requirements/intent of the approved plan.

If you have any questions, please contact me at (505) 235-1426.

Sincerely,



Guy Jackson & Associates, LLC  
*President*





**Guy Jackson & Associates, LLC**  
235-1426

## FAX COVER SHEET

<b>DATE:</b>	<b>11/2/05</b>	<b>TIME:</b>	<b>2:44 PM</b>
<b>TO:</b>	Arlene Portillo COA Hydrology	<b>PHONE:</b>	924-3982
		<b>FAX:</b>	924-3864
<b>FROM:</b>	Guy Jackson GJA, LLC	<b>PHONE:</b>	(505) 235-1426
		<b>FAX:</b>	(505) 821-5798

**RE:** AutoZone & 5700 Quail Rd. NW

**cc:**

Number of pages including cover sheet: 3

### **MESSAGE:**

Arlene,

Per your voice mail to me, I've attached a copy of the letter requesting Temporary C.O for the referenced site listing the items that need to be completed prior to submitting for Final C.O.

Please call if you have any questions or comments.

Thanks,

Guy J.

**Guy Jackson & Associates, LLC**  
235-1426

## FAX COVER SHEET

<b>DATE:</b>	<b>11/2/05</b>	<b>TIME:</b>	<b>2:44 PM</b>
<b>TO:</b>	Arlene Portillo COA Hydrology	<b>PHONE:</b>	924-3982
		<b>FAX:</b>	924-3864
<b>FROM:</b>	Guy Jackson GJA, LLC	<b>PHONE:</b>	(505) 235-1426
		<b>FAX:</b>	(505) 821-5798

**RE:** AutoZone & 5700 Quail Rd. NW

**cc:**

Number of pages including cover sheet: 3

### **MESSAGE:**

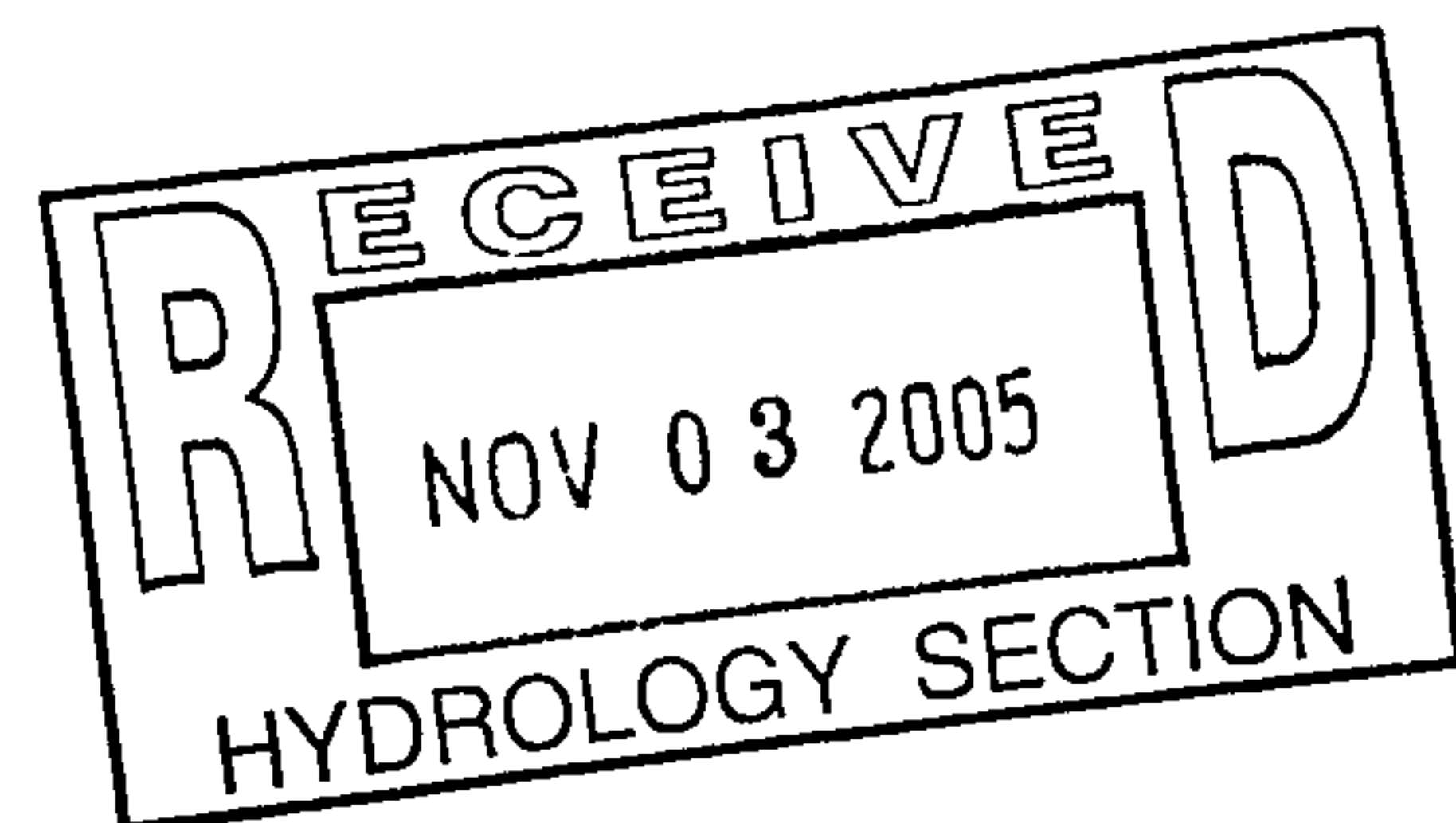
Arlene,

Per your voice mail to me, I've attached a copy of the letter requesting Temporary C.O for the referenced site listing the items that need to be completed prior to submitting for Final C.O.

Please call if you have any questions or comments.

Thanks,

Guy J.



GJA

Guy Jackson & Associates, LLC

Civil Engineering for Commercial and Residential Development

November 2, 2005

Bradley L. Bingham, PE  
Section Head, Hydrology  
Development & Building Services Division  
Planning Department  
PO Box 1293  
Albuquerque, New Mexico 87103

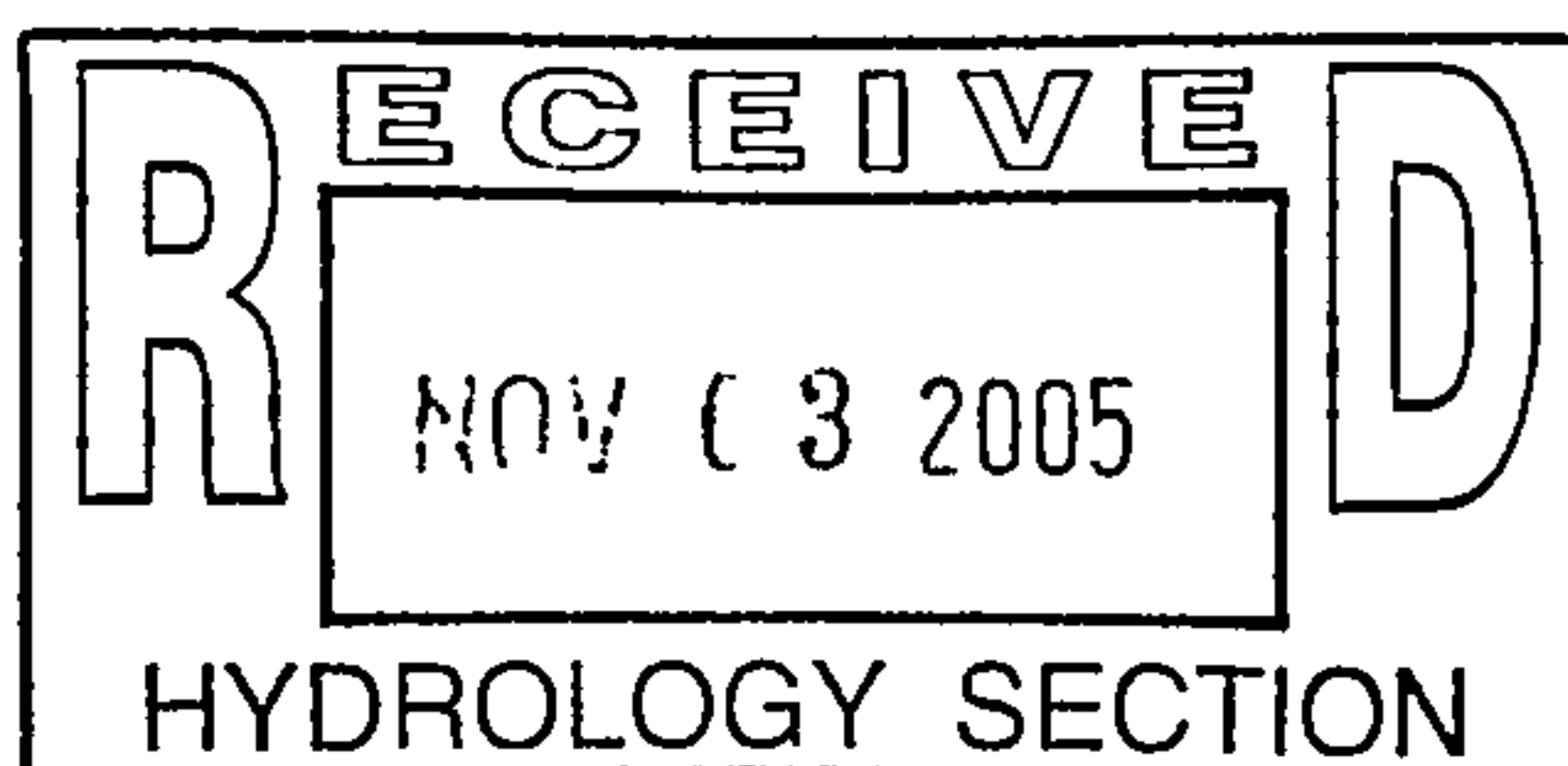
**Re: AutoZone - 5700 Quail Rd. NW, Albuquerque, NM**  
(Zone Atlas Map H-11)

Dear Brad:

The referenced property is anticipating opening their doors on Friday November 4, 2005. Although most of the site improvements have been completed, upon reviewing the mostly completed as-built information from the surveyor, there are numerous items that need to be addressed prior to submitting for Final Certificate of Occupancy. The items needing to be addressed or completed are as follows:

- 1) The grading west of the building has not been completed.
- 2) The curb cuts at the north entrance (Quail Rd.) and at the southeast portion of the property have not been installed.
- 3) The detention pond adjacent to 57<sup>th</sup> Street has not been graded to completion.
- 4) The elevations of the new pavement north of the building have not been built to design grades. The water block near the northwest corner of the building has not been constructed.
- 5) The retaining wall along the southern portion of the building (south property line) has not been installed.
- 6) As-builts have not been completed for the trash enclosure.

AutoZone's contractor has indicated to me that the items listed above will be addressed accordingly and are requesting a "Temporary Certificate of



Bradley L. Bingham  
November 2, 2005  
Page 2

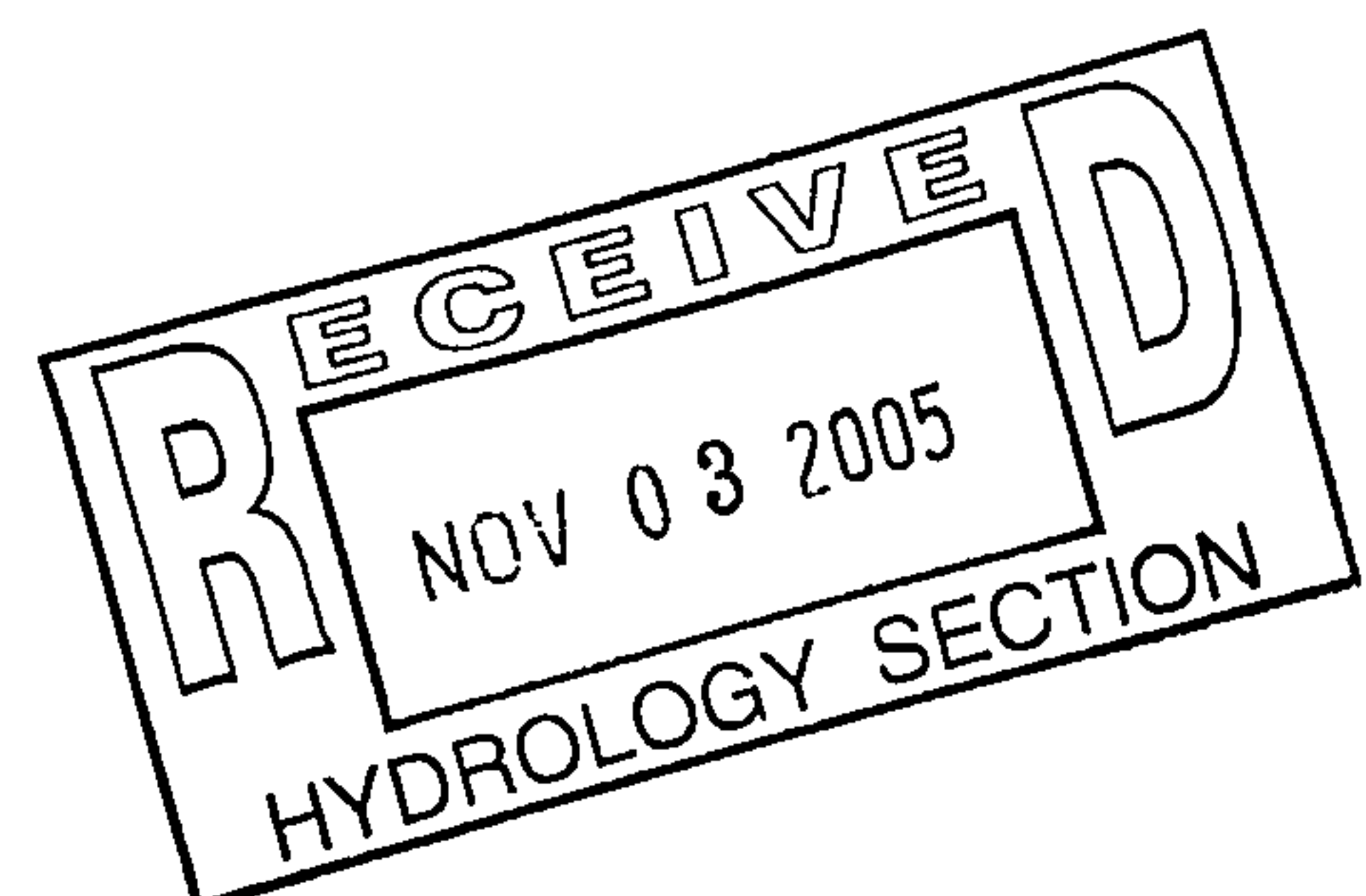
Occupancy" until the site meets the requirements/intent of the approved plan.

If you have any questions, please contact me at (505) 235-1426.

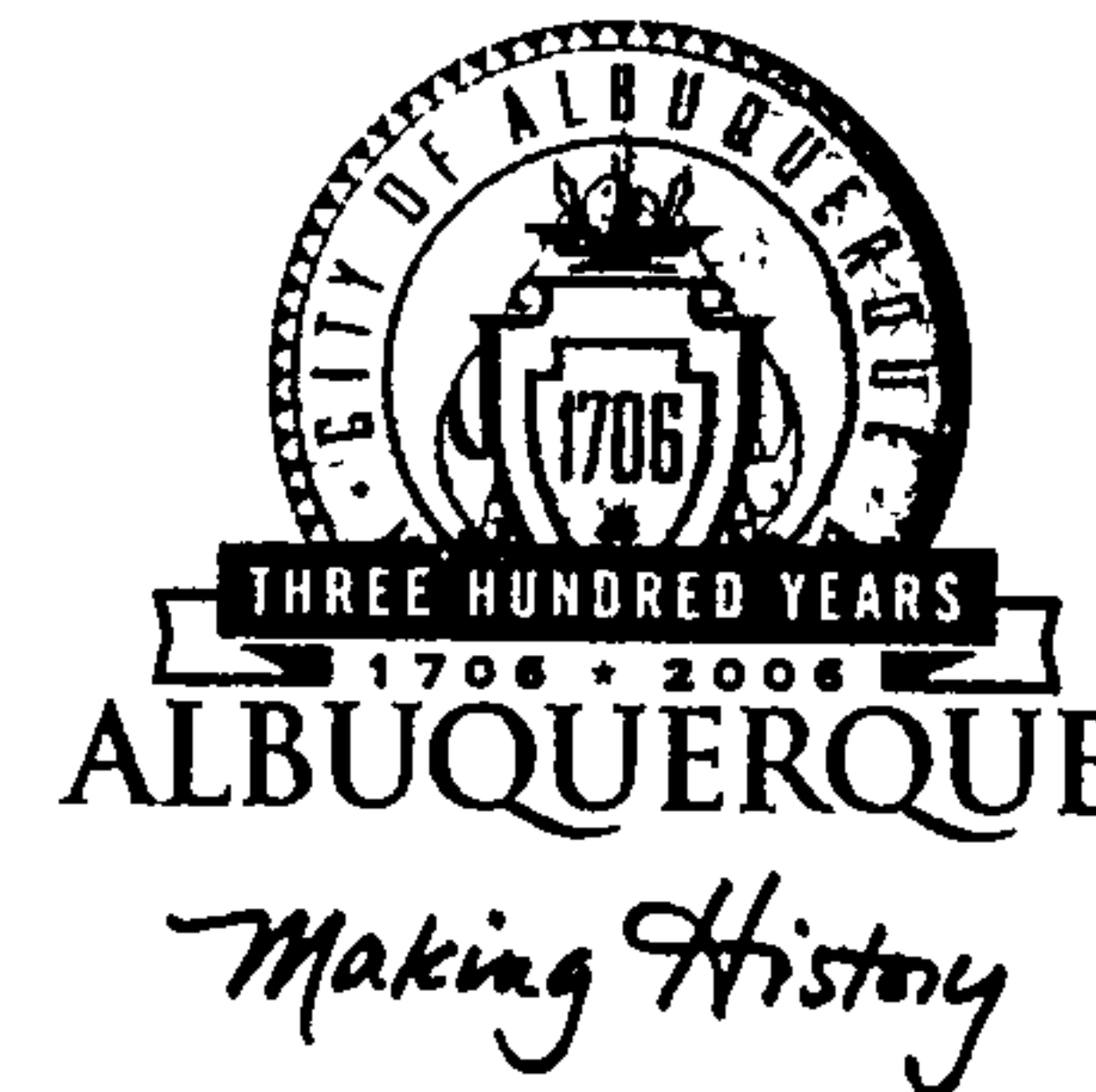
Sincerely,



Guy Jackson & Associates, LLC  
*President*



# CITY OF ALBUQUERQUE



March 25, 2005

Guy C. Jackson, PE  
BPLW Architects & Engineers, Inc  
6200 Uptown Blvd. - Suite 400 NE  
Albuquerque, NM 87110

**Re: AutoZone @ 57<sup>th</sup> & Quail, Tract C-1 of the Plat of Tracts A-1 & C-1,  
Grading & Drainage Plan - Engineer Stamp dated 02-14-05 (H11/D65)**

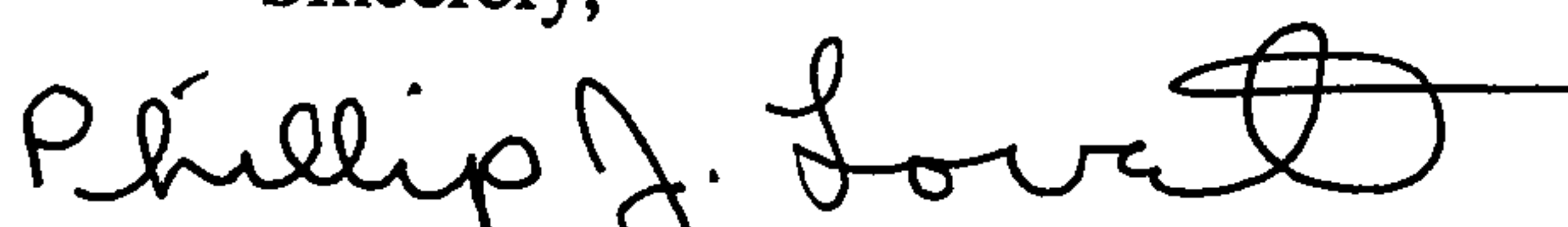
Dear Mr. Jackson,

Based upon the information provided in your submittal dated 02-22-05, the above referenced plan is approved for Building Permit and S019 Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

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 other questions, you can contact me at 924-3990.

Sincerely,

  
Phillip J. Lovato, E.I.  
Associate Engineer, Planning Department  
Development and Building Services

C: Chuck Caruso, DMD  
Pam Lujan, Excavation & Barricading  
Matt Cline, Storm Drain Maintenance  
file

P.O. Box 1293

Albuquerque

New Mexico 87103

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



## DRAINAGE INFORMATION SHEET

PROJECT TITLE AutoZone @ 57<sup>th</sup> & Quail

ZONE ATLAS/DRWG. FILE # H-11 / D 65

DRB#: 110176 EPC # \_\_\_\_\_ WORK ORDER # \_\_\_\_\_

LEGAL DESCRIPTION: TRACT LETTERED C-ONE (C-1), OF THE PLAT OF TRACTS A-1 AND C-1, ALBUQUERQUE WEST, A SUBDIVISION IN ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

CITY ADDRESS: 5700 Quail Rd. NW

ENGINEERING FIRM: BPLW

CONTACT: Guy Jackson

ADDRESS: 6200 Uptown Blvd., Suite 400

PHONE: 881-2759

OWNER: AutoZone, Inc.

CONTACT: Arthur Nave

ADDRESS: 123 South Front St. Memphis TN, 38103

PHONE: 901-495-8714

ARCHITECT: See Owner

CONTACT: See Owner

ADDRESS: \_\_\_\_\_

PHONE: See Owner

SURVEYOR: Harris Surveying

CONTACT: Tony Harris

ADDRESS: 2412 Monroe NE, 87110

PHONE: 889-8056

CONTRACTOR: --- TBD

CONTACT: \_\_\_\_\_

ADDRESS: ---

PHONE: \_\_\_\_\_

TYPE OF SUBMITTAL:

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ DRAINAGE REPORT
- ☒ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION
- ☐ OTHER \_\_\_\_\_

PRE-DESIGN MEETING:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

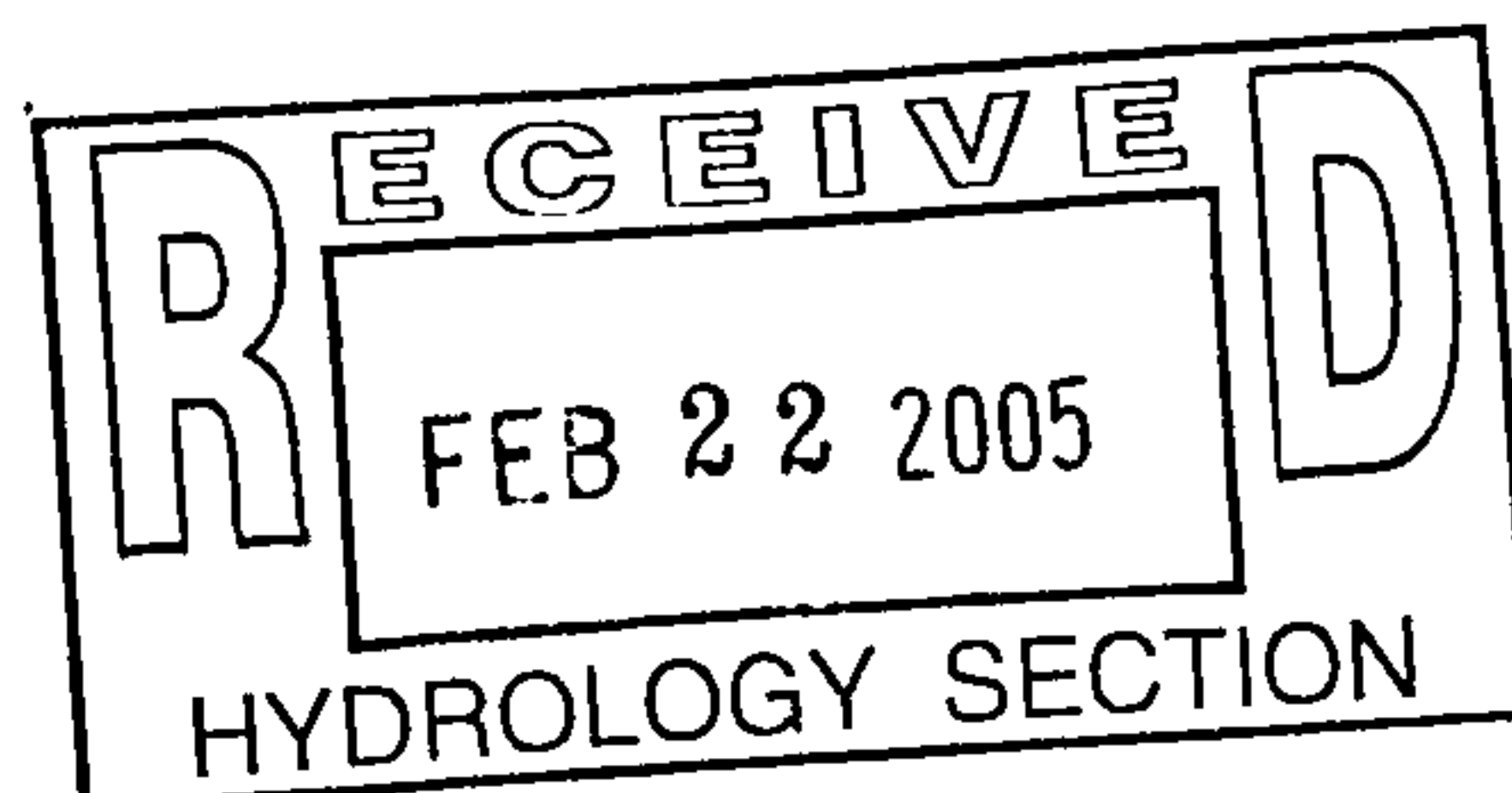
- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY APPROVAL
- ☐ GRADING PERMIT APPROVALS
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.B. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS

X SO-19

DATE SUBMITTED: FEBRUARY 22, 2005

BY: Guy Jackson, PE

*Guy Jackson, PE*





# BPLW

Architects & Engineers, Inc.

6200 Uptown Blvd. NE  
Suite 400  
Albuquerque, New Mexico 87110  
(505) 881-BPLW (2759)  
FAX (505) 881-1230  
Web site: <http://www.bplw.com>

## Officers

William L. Burns, AIA  
Ronald L. Peters, AIA, AICP  
Joseph D. Long, Emeritus, AIA, PE  
Bill J. Waters, Emeritus, AIA  
Eugene A. Valentine, AIA, CCS  
W. Paul Waters, AIA

## Senior Vice Presidents

Roger Easley, AICP  
Guy C. Jackson, PE  
James M. Jones, Jr., PE  
Carl W. Jordan, AIA  
Pamela M. Lentini, PE  
Michael J. Melichar, PE  
Bruce A. Schneider, PE  
Maureen M. Walter, AIA, CCS

## Vice Presidents

Paul W. Browne, AIA, CDT  
Curtis L. Chavez  
Ian F. Harmon  
Tyler M. Mason, AIA, CCS  
Mary Ann Modzelewski, AIA  
Daniel R. Partida, AIA  
L. Fontaine Sanchez  
Molly E. Smith, REFP

February 22, 2004

Bradley L. Bingham, PE  
Section Head, Hydrology  
City of Albuquerque Public Works  
PO Box 1293  
Albuquerque, New Mexico 87103

**Re: *AutoZone -57<sup>th</sup> & Quail, Albuquerque, NM***  
***(H11), DRB # 1001763***  
***BPLW Project Number: A04029***

Dear Brad:

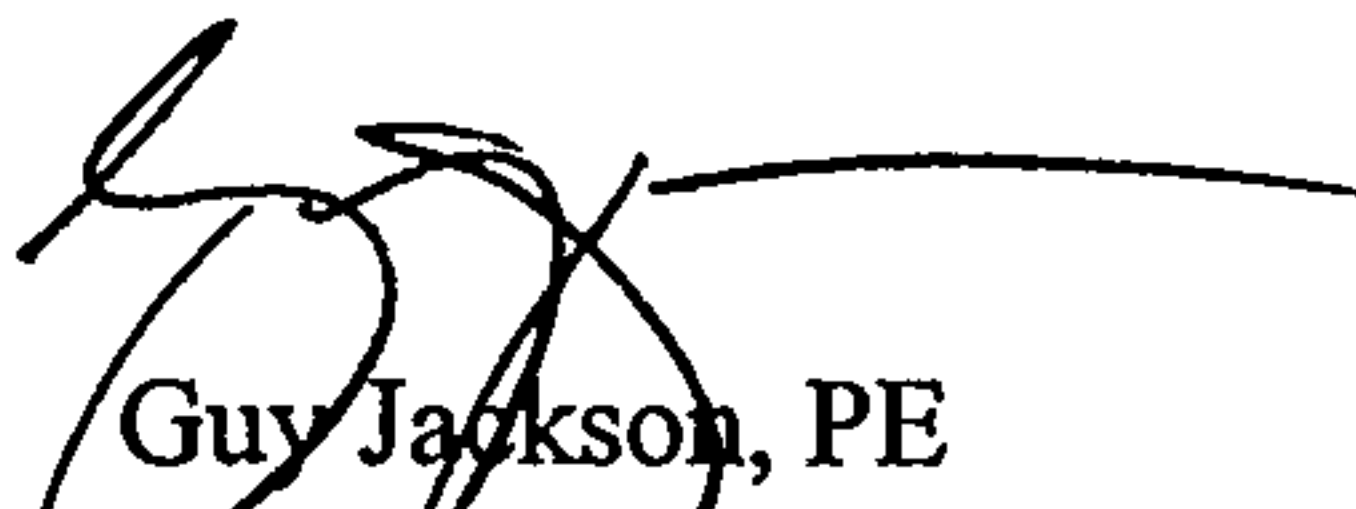
Attached for review, comment and/or approval are the following:

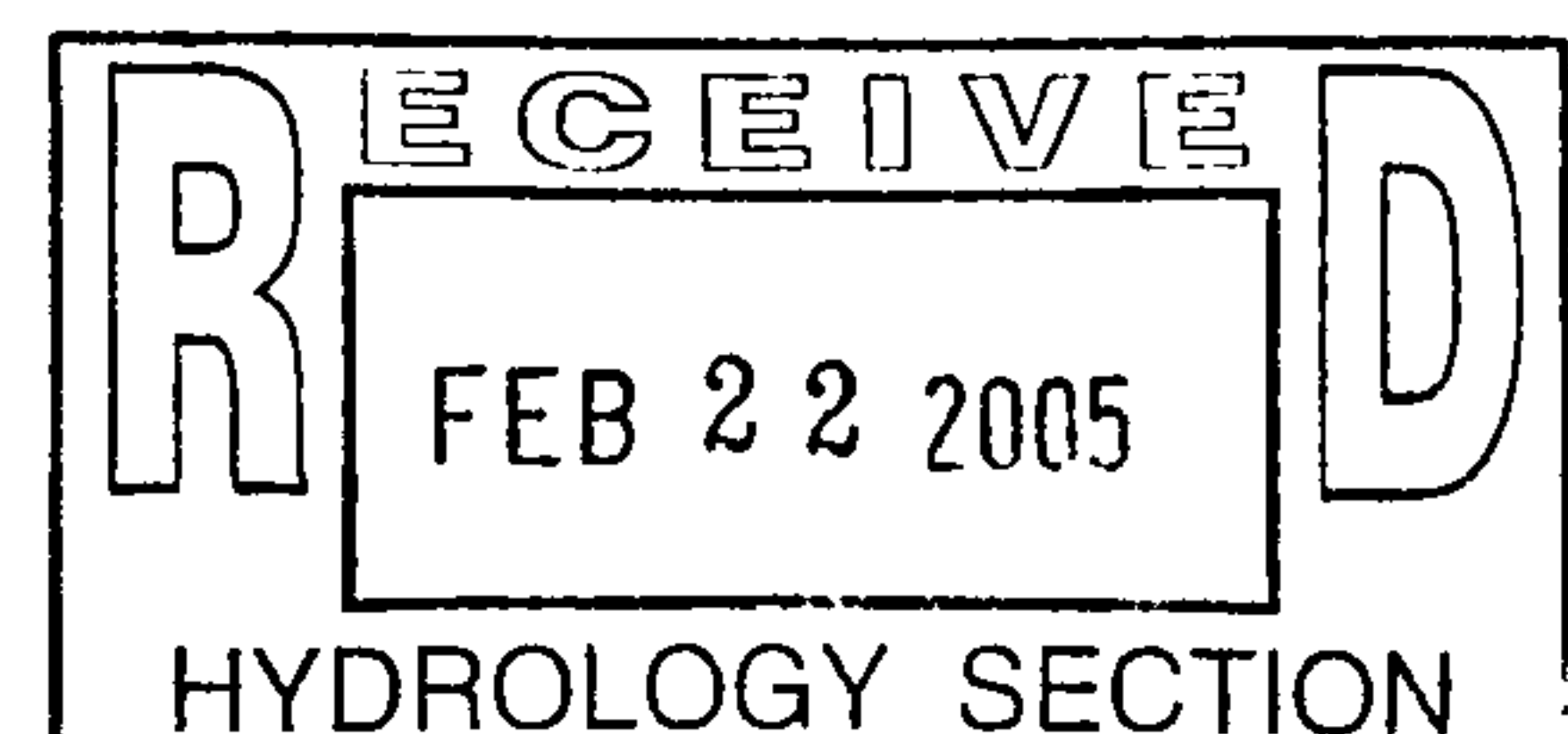
- One (1) Drainage Information Sheet
- One (1) copy of the Grading Plan
- One (1) copy of the Drainage Plan
- One (1) copy of Supporting Drainage Calculations

The proposed AutoZone project is located at 5700 Quail NW. The site is currently undeveloped. The current legal description for the site is "TRACT LETTERED C-ONE (C-1), OF THE PLAT OF TRACTS A-1 AND C-1, ALBUQUERQUE WEST, A SUBDIVISION IN ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO". On December 20, 2004 the Conceptual Grading and Drainage Plan was approved for Site Plan for Subdivision and Site Plan for Building Permit (see attached copy of approval letter). Per the approval letter, the attached grading plan is comprehensive with applicable spot elevations and SO#19 Permit Notes. The site plan and accompanying site details have been included in the permit set to the City. The plan being submitted is the AutoZone on Tract C-1 for Building Permit. I've highlighted the applicable drainage calculations to assist you in your review. If you have any questions, please contact me at (505) 881-2759.

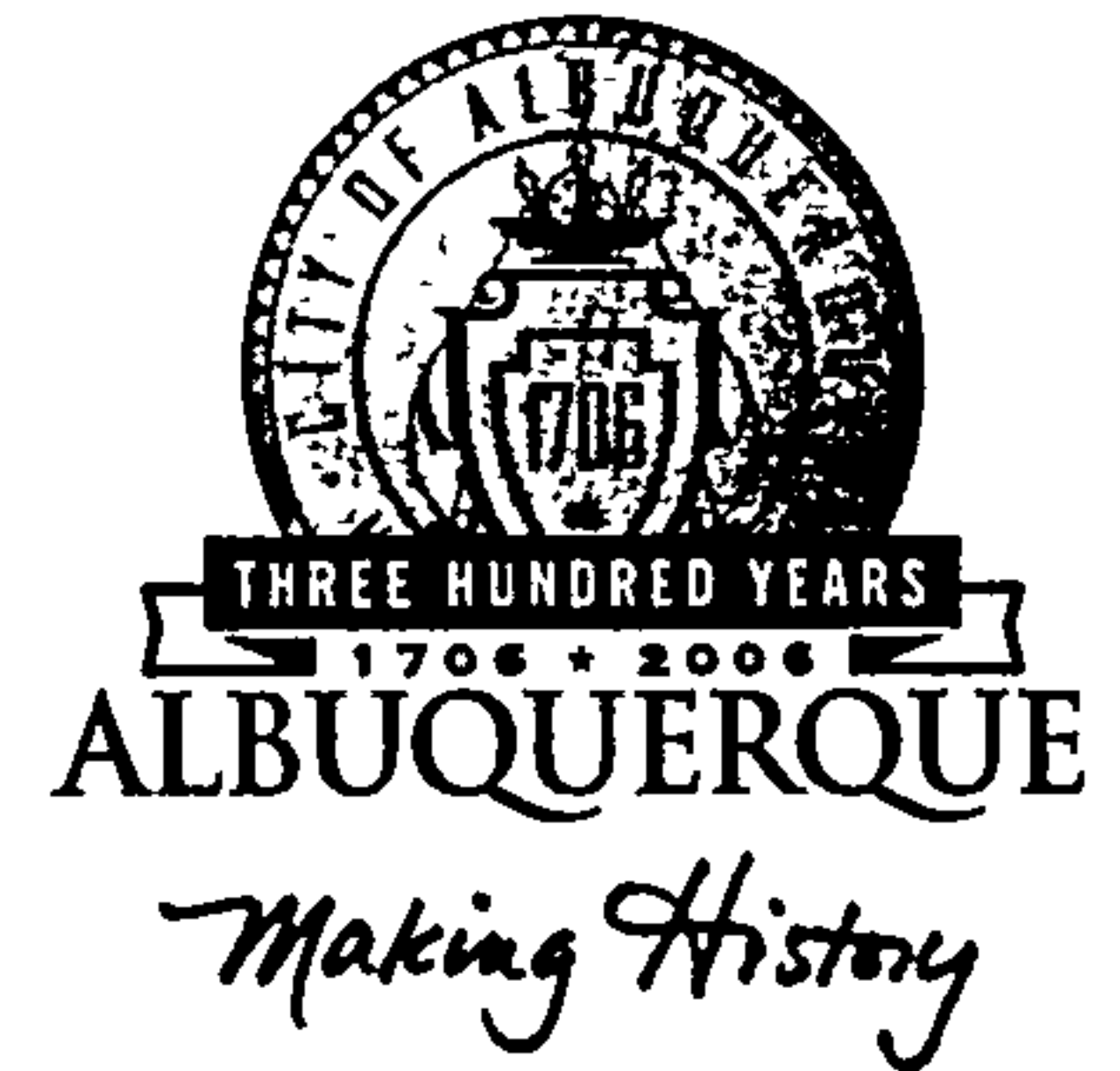
Sincerely,

BPLW ARCHITECTS & ENGINEERS, INC.

  
Guy Jackson, PE  
Director of Civil Engineering



# CITY OF ALBUQUERQUE



December 20, 2004

Guy Jackson, PE  
BPLW  
6200 Uptown Blvd, Ste 400  
Albuquerque, NM 87110

**Re: Autozone at 57<sup>th</sup>/Quail Conceptual Grading and Drainage Plan  
Engineer's Stamp dated 11-8-04 (H11/D65)**

Dear Mr. Jackson,

Based upon the information provided in your submittal dated 11-8-04, the above referenced plan is approved for Site Plan for Subdivision and Site Plan for Building Permit action by the DRB. Prior to Building Permit approval, please resubmit a bound (stapled) set of the calculations, stamped and signed by the engineer of record, and a more comprehensive grading plan with all critical spot elevations, build notes and details needed to construct this project. An SO#19 Permit would be needed as well.

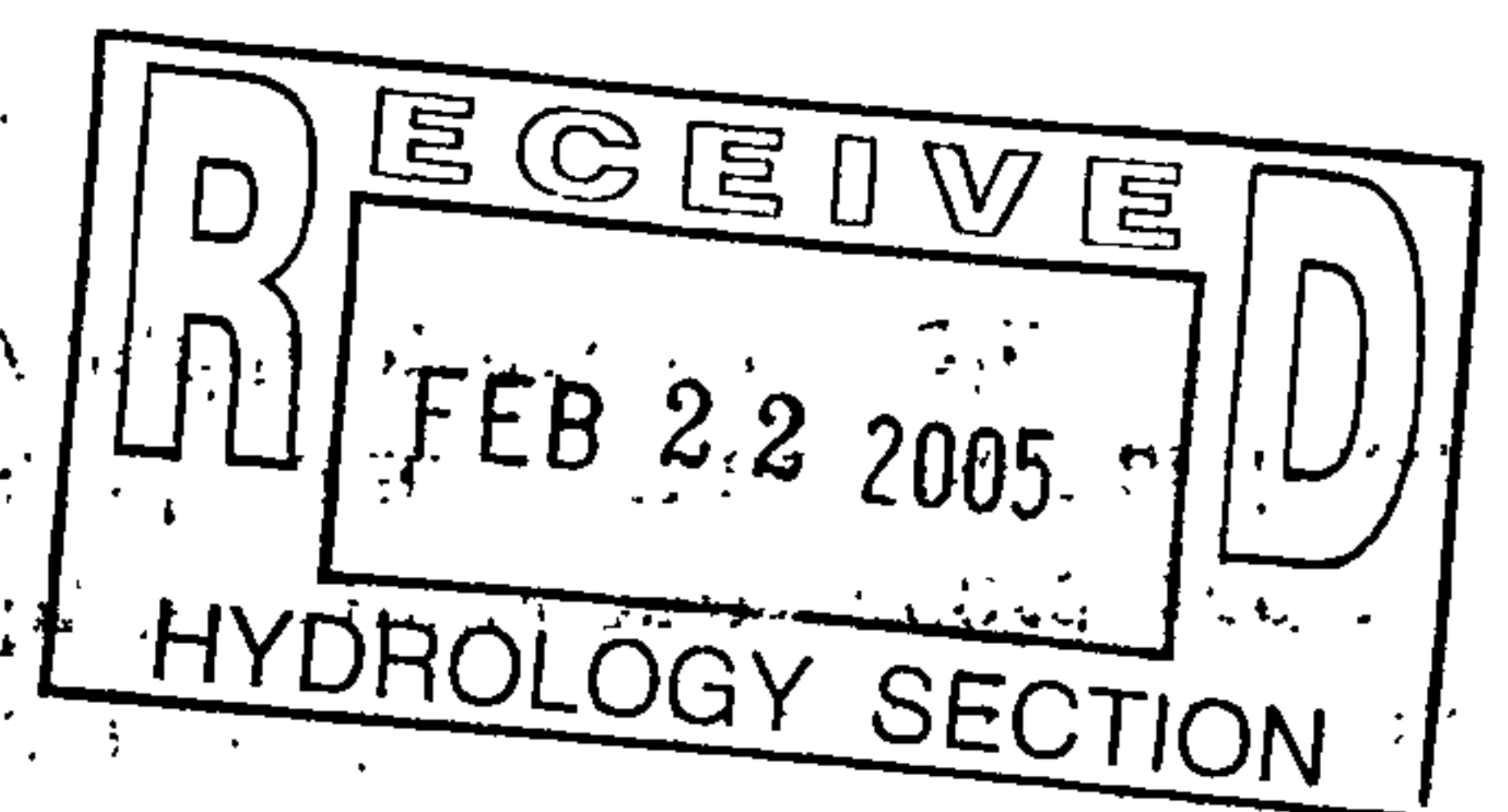
If you have any questions, you can contact me at 924-3986

Sincerely,

*Bradley L. Bingham*

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

C: file



# Drainage Summary

## Drainage Summary

Project: AUTOZONE 57TH & QUAIL  
 Project Number: A04029  
 Date: 10/02/04  
 By: JON PENA

### Site Location

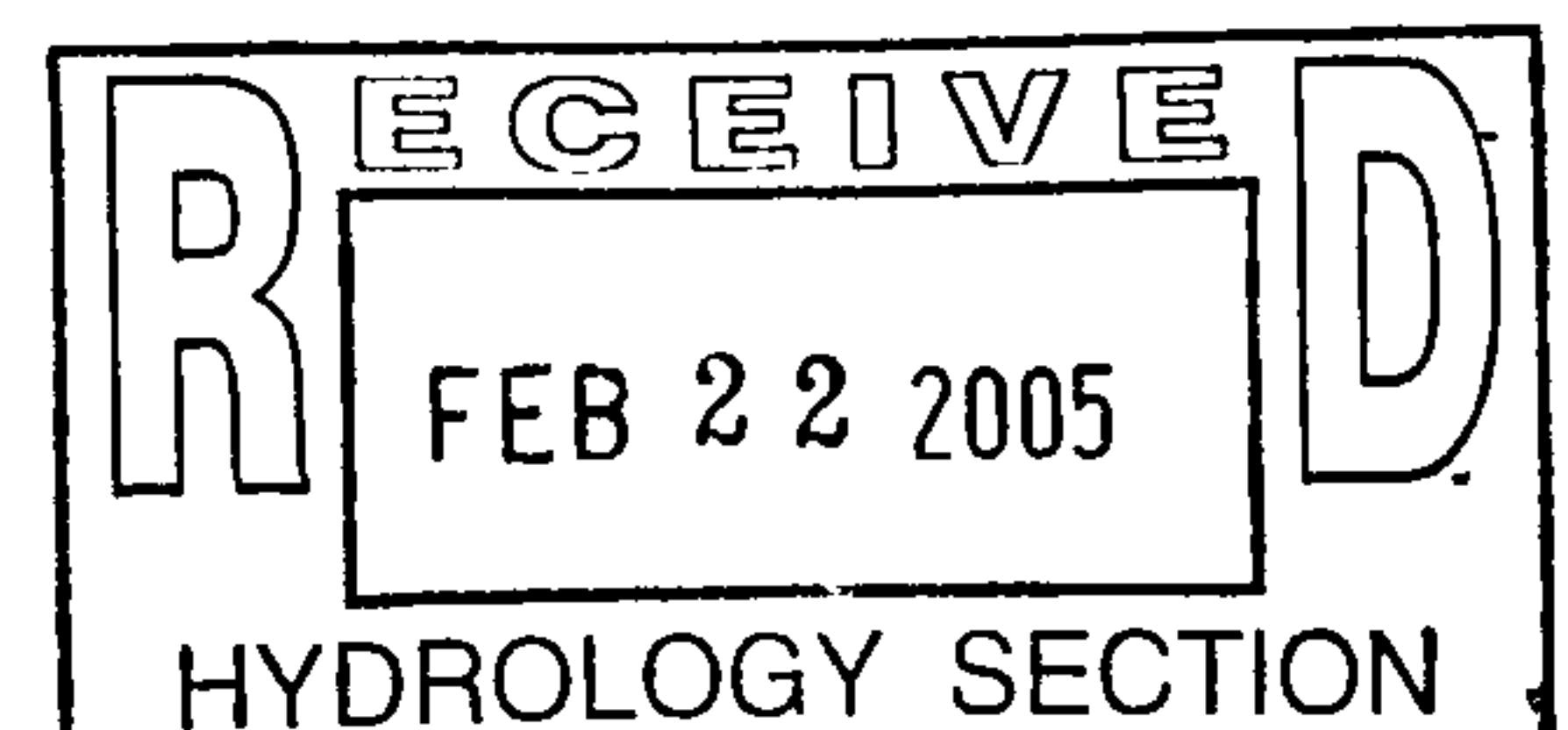
Precipitation Zone 1 Per Table A-1 COA DPM Section 22.2

### Existing summary

Basin Name	BASIN 1			TOTAL
<b>Soil Treatment (acres)</b>				
Area "A"	0.00	0.00	0.00	0.00
Area "B"	1.47	0.00	0.00	1.47
Area "C"	0.00	0.00	0.00	0.00
Area "D"	0.00	0.00	0.00	0.00
TOTAL	1.47	0.00	0.00	1.47
<b>Excess Runoff (acre-feet)</b>				
100yr. 6hr.	0.08	#DIV/0!	#DIV/0!	#DIV/0!
10yr. 6hr.	0.03	#DIV/0!	#DIV/0!	#DIV/0!
2yr. 6hr.	0.00	#DIV/0!	#DIV/0!	#DIV/0!
100yr. 24hr.	0.08	#DIV/0!	#DIV/0!	#DIV/0!
TOTAL	0.19	#DIV/0!	#DIV/0!	#DIV/0!
<b>Peak Discharge (cfs)</b>				
100 yr.	2.98	0.00	0.00	2.98
10yr.	1.12	0.00	0.00	1.12
2yr.	0.04	0.00	0.00	0.04
TOTAL	4.15	0.00	0.00	4.15

### Proposed summary

Basin Name	BASIN 1	BASIN 2	BASIN 3	TOTAL
<b>Soil Treatment (acres)</b>				
Area "A"	0.00	0.00	0.00	0.00
Area "B"	0.14	0.10	0.63	0.87
Area "C"	0.00	0.00	0.00	0.00
Area "D"	0.30	0.30	0.00	0.60
TOTAL	0.44	0.40	0.63	1.47
<b>Excess Runoff (acre-feet)</b>				
100yr. 6hr.	0.06	0.05	0.04	0.11
10yr. 6hr.	0.03	0.03	0.01	0.07
2yr. 6hr.	0.02	0.02	0.00	0.04
100yr. 24hr.	0.07	0.07	0.04	0.13
TOTAL	0.18	0.17	0.08	0.35
<b>Peak Discharge (cfs)</b>				
100 yr.	1.60	1.51	1.28	4.39
10yr.	0.97	0.94	0.48	2.40
2yr.	0.51	0.51	0.02	1.04
TOTAL	3.08	2.97	1.78	7.82



Existing hyd.

BPLW

Architects and Engineers

PROJECT AUTOZONE 57TH & QUAIL  
PROJECT NO. A04029  
DATE 10/02/04  
BY JON PENA

DPM Section 22.2 - Hydrology

Part A-Watersheds less than 40 acres.  
January, 1993

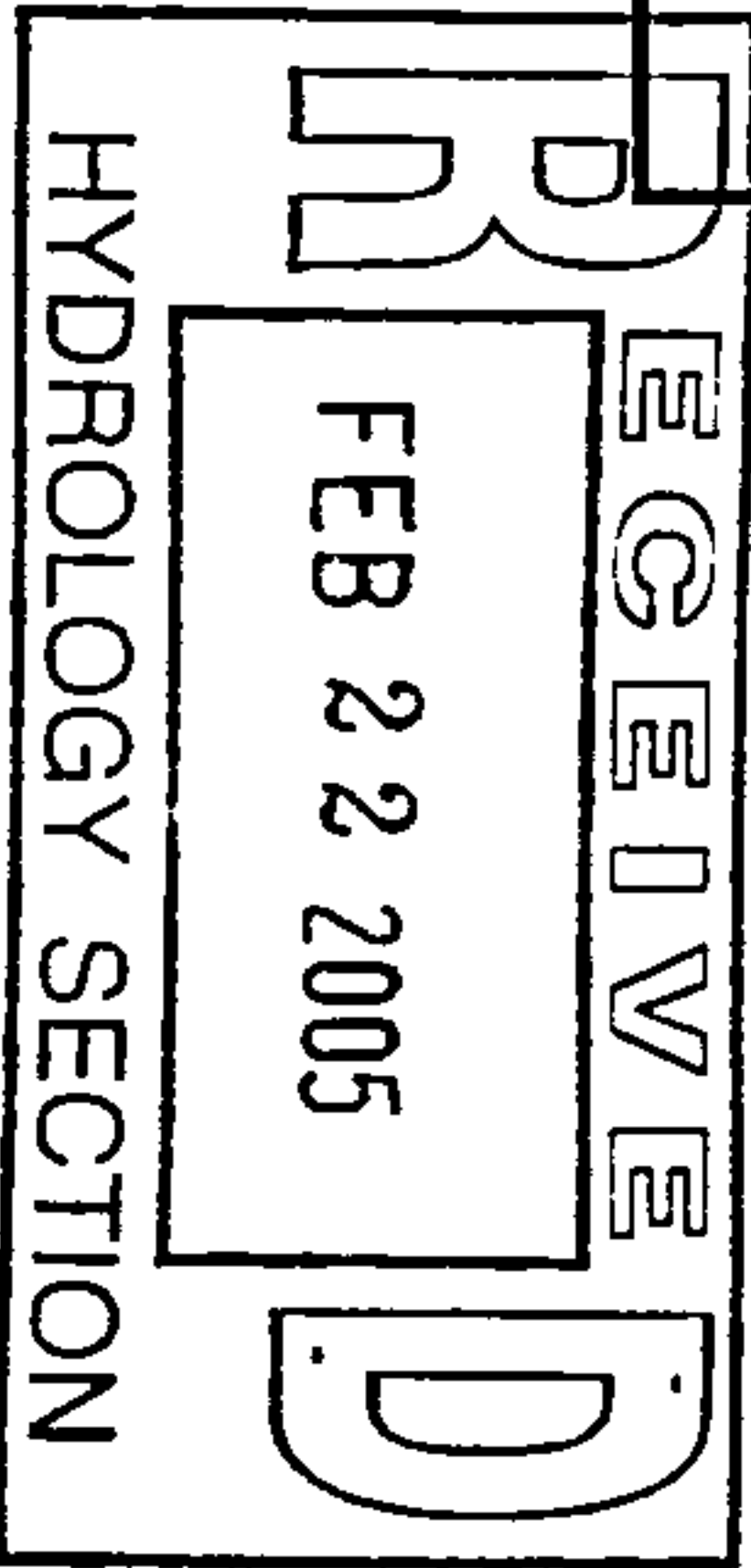
INSTRUCTIONS

- \* Spread sheet requires three input areas (dark cells):
  - Location
    - >A.1 Precipitation Zone
    - >A.3 Land Treaments
- \* Values from the tables are automatically placed using "if" statements.
- \* Table values should be checked for correctness for each use.

SUMMARY

Location	0	BASIN 1	0.00	0.00	0.00	TOTALS	
Precipitation Zone		1	1	1	1	1	
Land Area		1.47	0.00	0.00	0.00	1.47	acres
Excess Precipitation Volume							
>>> 100-year 6-hour (design)		0.08	#DIV/0!	#DIV/0!	#DIV/0!	0.08	acre-ft. ✓
10-year 6-hour		0.03	#DIV/0!	#DIV/0!	#DIV/0!	0.03	acre-ft.
2-year 6-hour		0.00	#DIV/0!	#DIV/0!	#DIV/0!	0.00	acre-ft.
100-year 24-hour		0.08	#DIV/0!	#DIV/0!	#DIV/0!	0.08	acre-ft.
Peak Discharge Rates (DPM)							
>>> Q100 (design)		2.98 ✓	0.00	0.00	0.00	2.98	cfs ✓
Q10		1.12	0.00	0.00	0.00	1.12	cfs
Q2		0.04	0.00	0.00	0.00	0.04	cfs

CALCULATIONS FOLLOW



Existing hyd.

INPUT AND CALCULATIONS

LOCATION	BASIN 1	0.00	0.00	0.00	TOTALS	
>A.1 PRECIPITATION ZONE (from Table A-1)	1	1	1	1	1	
>A.2 DEPTHS						
(from Table A-2)						
100-YEAR STORM (P60)	1.87 ✓	1.87	1.87	1.87	1.87	inches
100-YEAR STORM (P360)	2.20 ✓	2.20	2.20	2.20	2.20	inches
100-YEAR STORM (P1440)	2.66 ✓	2.66	2.66	2.66	2.66	inches
10-YEAR (P360) (Calculated: P360*RPF10)	1.47 ✓	1.47	1.47	1.47	1.47	inches
2-YEAR (P360) (Calculated: P360*RPF2)	0.95 ✓	0.95	0.95	0.95	0.95	inches
>A.3 LAND TREATMENTS (Ai)						
Treatment A	0.00	0.00	0.00	0.00	0.00	acres
Treatment B	1.47	0.00	0.00	0.00	1.47	acres
Treatment C	0.00	0.00	0.00	0.00	0.00	acres
Treatment D	0.00	0.00	0.00	0.00	0.00	acres
Total Area	1.47	0.00	0.00	0.00	1.47	acres
>A.4 ABSTRACTIONS						
	See A.5	See A.5	See A.5	See A.5	See A.5	

CALCULATIONS FOLLOW

RECEIVED  
HYDROLOGY SECTION  
JUN 22 2005

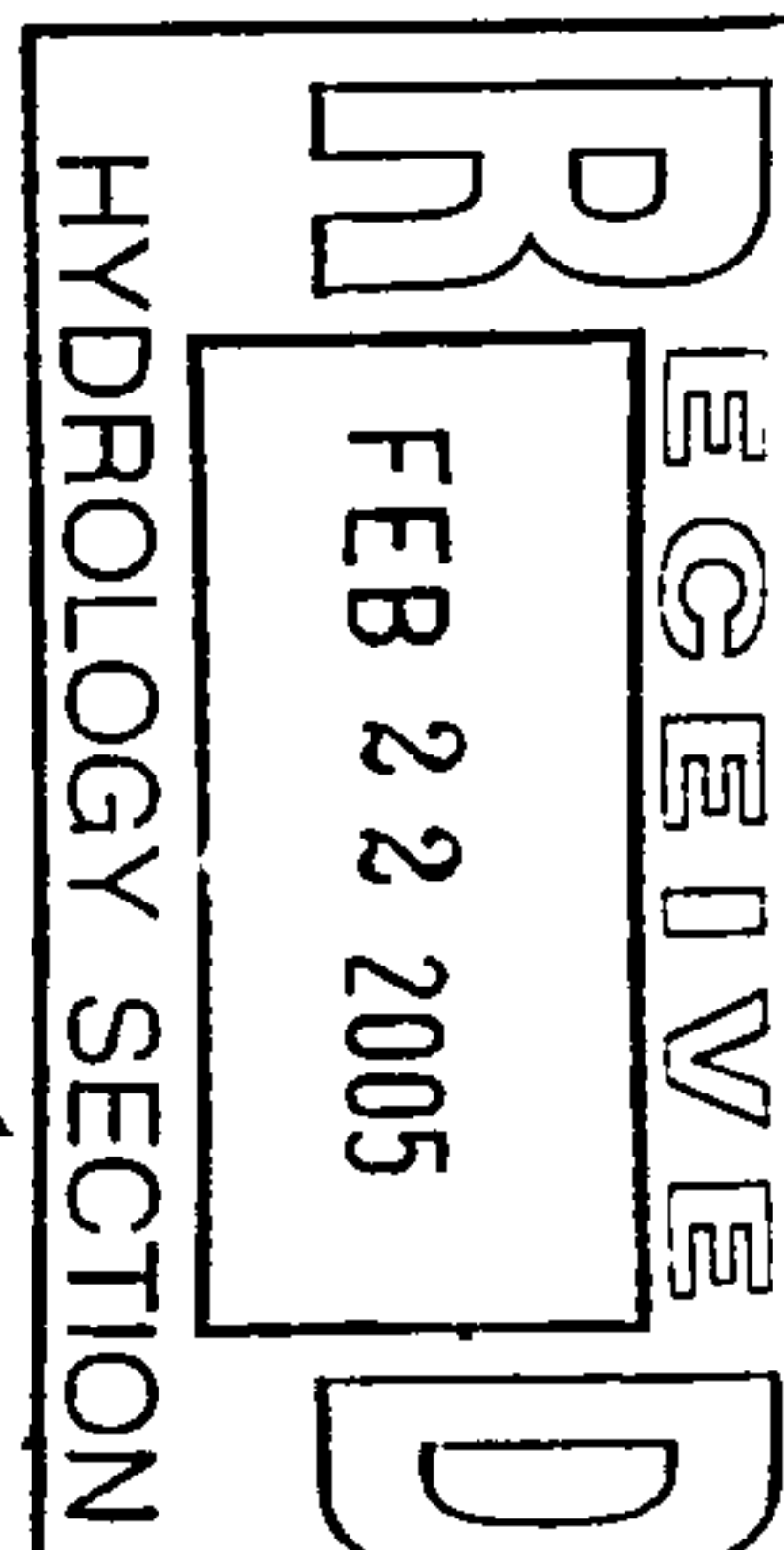


Existing hyd.

## INPUT AND CALCULATIONS (CON'T)

>A.5 EXCESS PRECIPITATION 6 HOUR AND 24 HOUR (Ei) from Table A-8						
100-year 6-hour						
Treatment A	0.44	0.44	0.44	0.44	0.44	inches
Treatment B	0.67	0.67	0.67	0.67	0.67	inches
Treatment C	0.99	0.99	0.99	0.99	0.99	inches
Treatment D	1.97	1.97	1.97	1.97	1.97	inches
<b>WEIGHTED E (Sum Ei*Ai/A)</b>	<b>0.67</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>0.67</b>	<b>inches</b>
<b>VOLUME V100:6h (E*A)</b>	<b>0.08</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>0.08</b>	<b>acre-ft.</b>
	<b>3,575.19</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>3,575.19</b>	<b>ft^3</b>
=====						
10-year 6-hour						
Treatment A	0.08	0.08	0.08	0.08	0.08	inches
Treatment B	0.22	0.22	0.22	0.22	0.22	inches
Treatment C	0.44	0.44	0.44	0.44	0.44	inches
Treatment D	1.24	1.24	1.24	1.24	1.24	inches
<b>WEIGHTED E (Sum Ei*Ai/A)</b>	<b>0.22</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>0.22</b>	<b>inches</b>
<b>VOLUME V10:6h (E*A)</b>	<b>0.03</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>0.03</b>	<b>acre-ft.</b>
	<b>1,173.94</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>1,173.94</b>	<b>ft^3</b>
=====						
2-year 6-hour						
Treatment A	0.00	0.00	0.00	0.00	0.00	inches
Treatment B	0.01	0.01	0.01	0.01	0.01	inches
Treatment C	0.12	0.12	0.12	0.12	0.12	inches
Treatment D	0.72	0.72	0.72	0.72	0.72	inches
<b>WEIGHTED E (Sum Ei*Ai/A)</b>	<b>0.01</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>0.01</b>	<b>inches</b>
<b>VOLUME V2:6h (E*A)</b>	<b>0.00</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>0.00</b>	<b>acre-ft.</b>
	<b>53.36</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>53.36</b>	<b>ft^3</b>
=====						
100-year 24-hour						
<b>VOLUME V100:24h</b>	<b>0.08</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>0.08</b>	<b>acre-ft.</b>
<b>(V100-6h+Ad*P1440-P360)/12)</b>	<b>3,575.19</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>3,575.19</b>	<b>ft^3</b>
=====						

CALCULATIONS FOLLOW



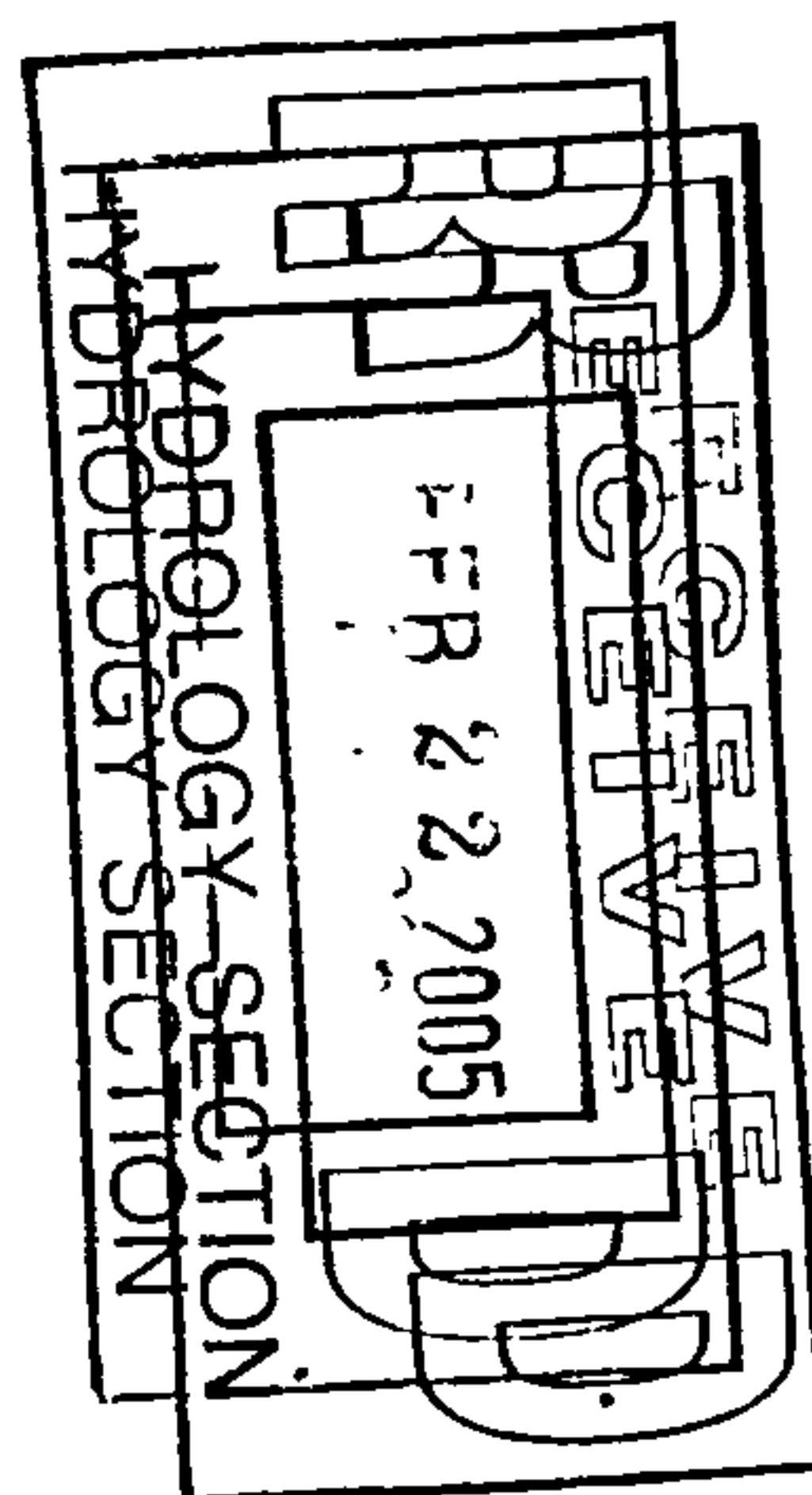


Existing hyd.

# INPUT AND CALCULATIONS (CON'T)

>A.6 PEAK DISCHARGE RATE FOR SMALL WATERSHEDS (Qi)							
from Table A-9							
100-year				TOTALS			
Treatment A	1.29	1.29	1.29	1.29	1.29	cfs/acre	
Treatment B	2.03	2.03	2.03	2.03	2.03	cfs/acre	
Treatment C	2.87	2.87	2.87	2.87	2.87	cfs/acre	
Treatment D	4.37	4.37	4.37	4.37	4.37	cfs/acre	
Q100 (Sum Qi*Ai)	2.98	0.00	0.00	0.00	2.98	cfs	
=====							
10-year							
Treatment A	0.24	0.24	0.24	0.24	0.24	cfs/acre	
Treatment B	0.76	0.76	0.76	0.76	0.76	cfs/acre	
Treatment C	1.49	1.49	1.49	1.49	1.49	cfs/acre	
Treatment D	2.89	2.89	2.89	2.89	2.89	cfs/acre	
Q10 (Sum Qi*Ai)	1.12	0.00	0.00	0.00	1.12	cfs	
=====							
2-year							
Treatment A	0.00	0.00	0.00	0.00	0.00	cfs/acre	
Treatment B	0.03	0.03	0.03	0.03	0.03	cfs/acre	
Treatment C	0.47	0.47	0.47	0.47	0.47	cfs/acre	
Treatment D	1.69	1.69	1.69	1.69	1.69	cfs/acre	
Q2 (Sum Qi*Ai)	0.04	0.00	0.00	0.00	0.04	cfs	
=====							

CALCULATIONS FOLLOW



BPLW

Architects and Engineers

PROJECT AUTOZONE 57TH & QUAIL  
PROJECT NO. A04029  
DATE 10/02/04  
BY JON PENA

## DPM Section 22.2 - Hydrology

Part A-Watersheds less than 40 acres.  
January, 1993

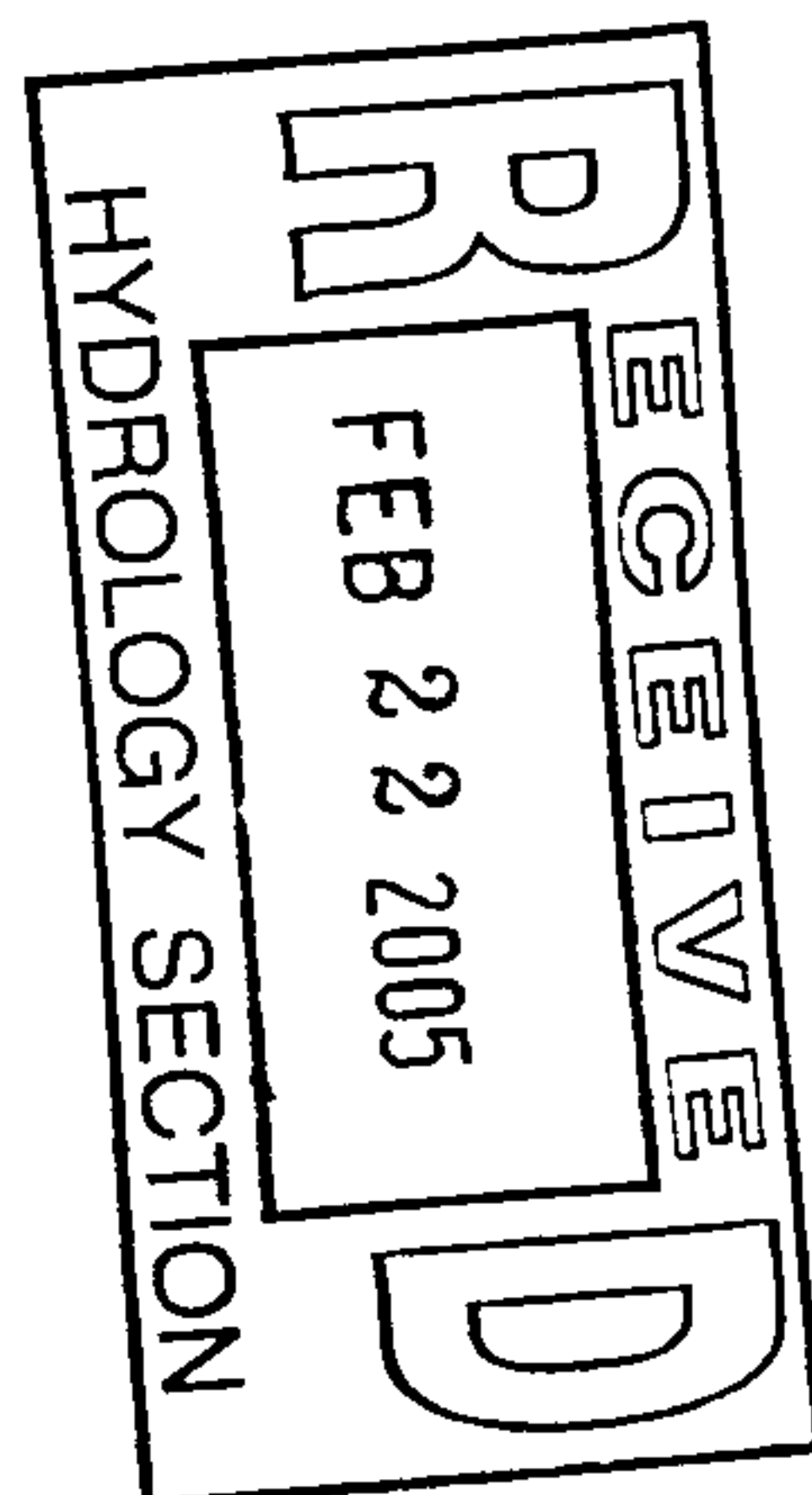
### INSTRUCTIONS

- \* Spread sheet requires three input areas (dark cells):  
Location  
    >A.1 Precipitation Zone  
    >A.3 Land Treatments
- \* Values from the tables are automatically placed using "if" statements.
- \* Table values should be checked for correctness for each use.

### SUMMARY

Location	BASIN 1	BASIN 2	BASIN 3	TOTALS	
Precipitation Zone	1	1	1	1	
Land Area	0.44	0.40	0.63	1.47	acres
Excess Precipitation Volume					
>>> 100-year 6-hour (design)	0.06	0.05	0.04	0.15	acre-ft.
10-year 6-hour	0.03	0.03	0.01	0.08	acre-ft.
2-year 6-hour	0.02	0.02	0.00	0.04	acre-ft.
100-year 24-hour	0.07	0.07	0.04	0.17	acre-ft.
Peak Discharge Rates (DPM)					
>>> Q100 (design)	1.60	1.51	1.28	4.39	cfs
Q10	0.97	0.94	0.48	2.40	cfs
Q2	0.51	0.51	0.02	1.04	cfs

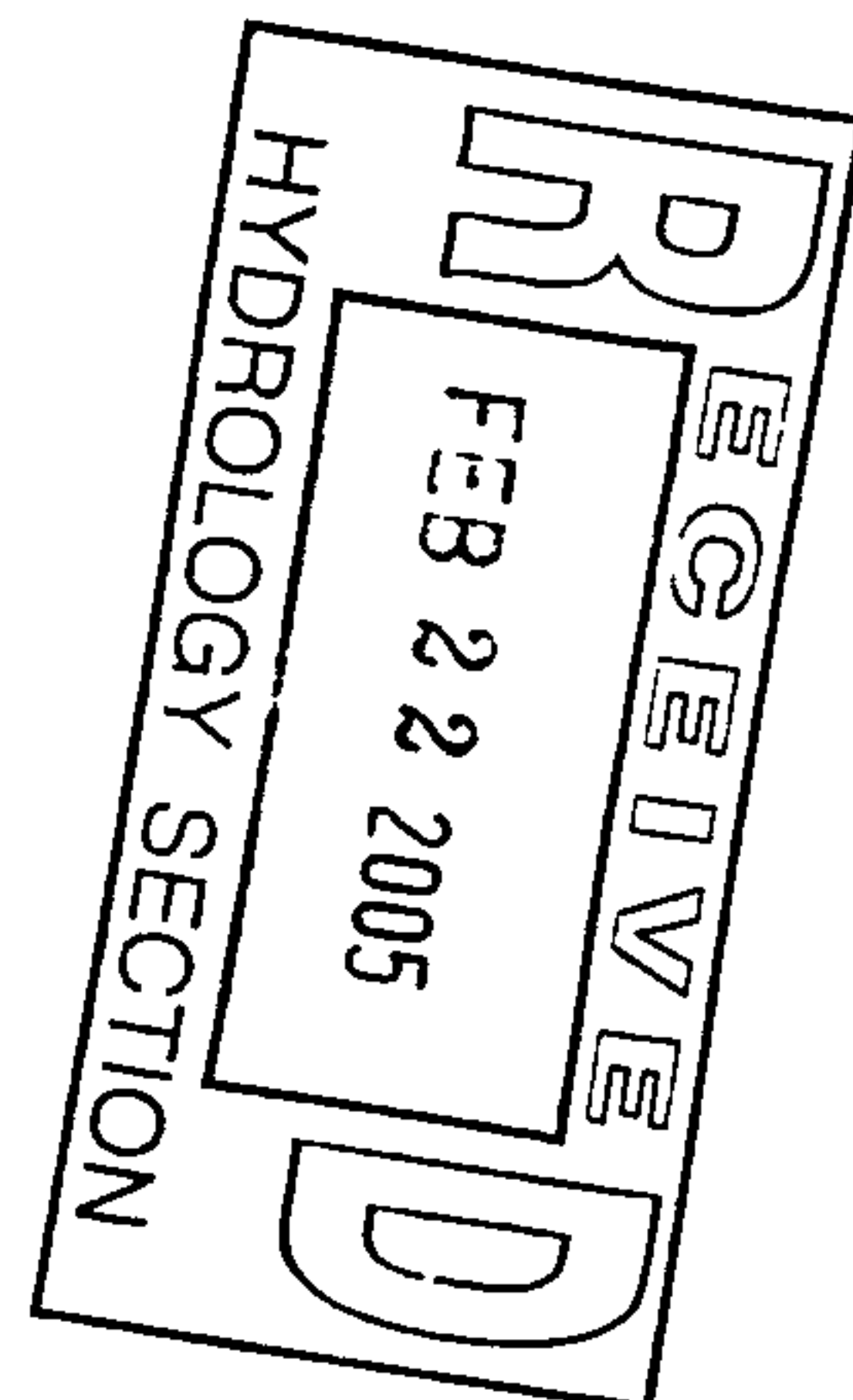
CALCULATIONS FOLLOW



## INPUT AND CALCULATIONS

LOCATION	BASIN 1	BASIN 2	BASIN 3		
>A.1 PRECIPITATION ZONE (from Table A-1)	1	1	1	1	
TOTALS					
>A.2 DEPTHS					
(from Table A-2)					
100-YEAR STORM (P60)	1.87 ✓	1.87	1.87	1.87	inches
100-YEAR STORM (P360)	2.20 ✓	2.20	2.20	2.20	inches
100-YEAR STORM (P1440)	2.66 ✓	2.66	2.66	2.66	inches
10-YEAR (P360) (Calculated: P360*RPF10)	1.47 ✓	1.47	1.47	1.47	inches
2-YEAR (P360) (Calculated: P360*RPF2)	0.95 ✓	0.95	0.95	0.95	inches
>A.3 LAND TREATMENTS (Ai)					
	TOTALS				
Treatment A	0.00	0.00	0.00	0.00	acres
Treatment B	0.14	0.10	0.63	0.87	acres
Treatment C	0.00	0.00	0.00	0.00	acres
Treatment D	0.30	0.30	0.00	0.60	acres
Total Area	0.44	0.40	0.63	1.47	acres
>A.4 ABSTRACTIONS					
	See A.5	See A.5	See A.5	See A.5	

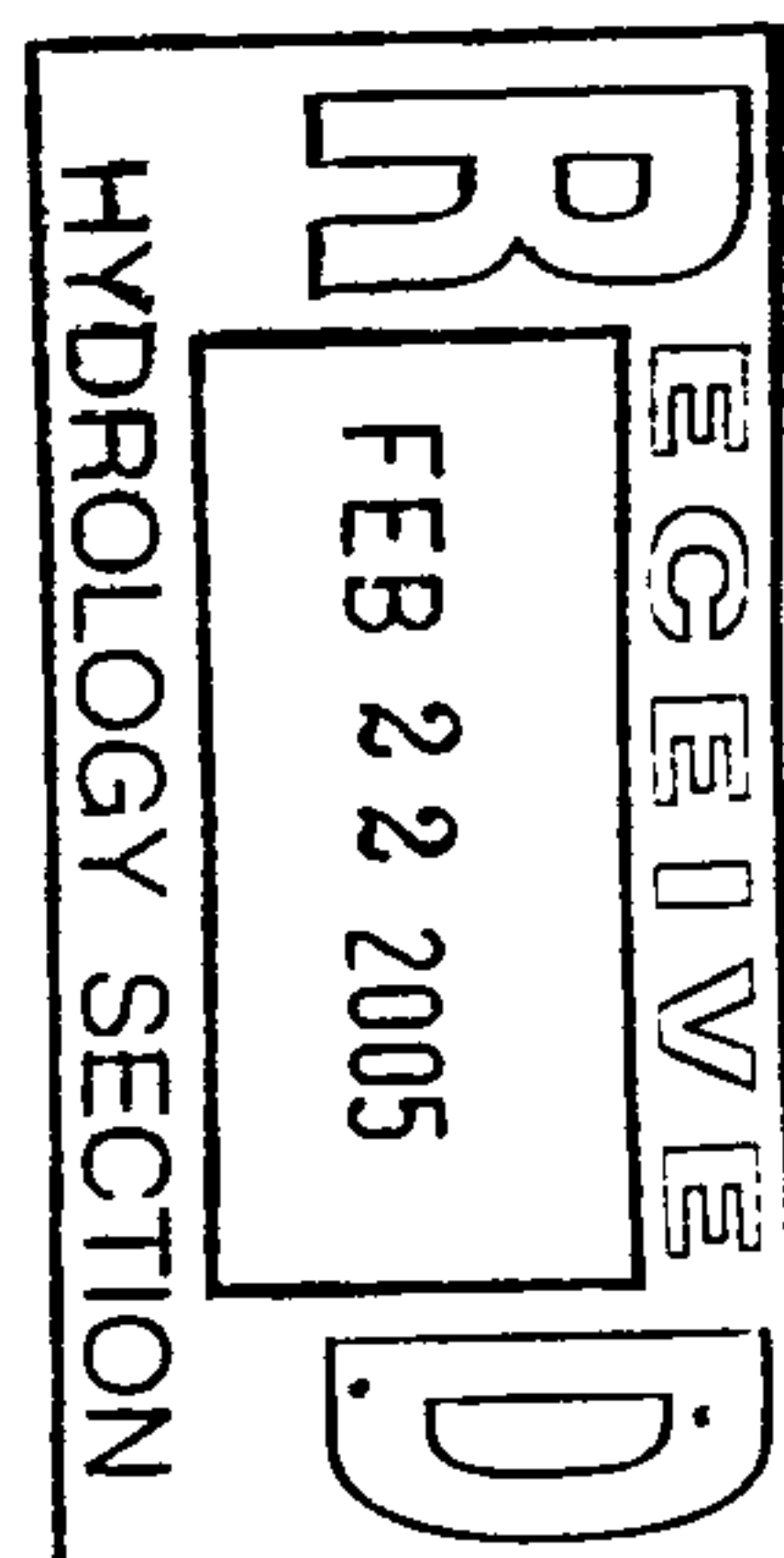
CALCULATIONS FOLLOW



# INPUT AND CALCULATIONS (CON'T)

>A.5 EXCESS PRECIPITATION 6 HOUR AND 24 HOUR (Ei)					
from Table A-8	1	2	3	TOTALS	
100-year 6-hour					
Treatment A	0.44	0.44	0.44	0.44	inches
Treatment B	0.67	0.67	0.67	0.67	inches
Treatment C	0.99	0.99	0.99	0.99	inches
Treatment D	1.97	1.97	1.97	1.97	inches
WEIGHTED E (Sum Ei*Ai/A)	1.56	1.65	0.67	1.20	inches
VOLUME V100:6h (E*A)	0.06	0.05	0.04	0.15	acre-ft.
	2,485.82	2,388.54	1,532.22	6,406.59	ft^3
10-year 6-hour					
Treatment A	0.08	0.08	0.08	0.08	inches
Treatment B	0.22	0.22	0.22	0.22	inches
Treatment C	0.44	0.44	0.44	0.44	inches
Treatment D	1.24	1.24	1.24	1.24	inches
WEIGHTED E (Sum Ei*Ai/A)	0.92	0.99	0.22	0.64	inches
VOLUME V10:6h (E*A)	0.03	0.03	0.01	0.08	acre-ft.
	1,462.16	1,430.22	503.12	3,395.50	ft^3
2-year 6-hour					
Treatment A	0.00	0.00	0.00	0.00	inches
Treatment B	0.01	0.01	0.01	0.01	inches
Treatment C	0.12	0.12	0.12	0.12	inches
Treatment D	0.72	0.72	0.72	0.72	inches
WEIGHTED E (Sum Ei*Ai/A)	0.49	0.54	0.01	0.30	inches
VOLUME V2:6h (E*A)	0.02	0.02	0.00	0.04	acre-ft.
	789.16	787.71	22.87	1,599.74	ft^3
100-year 24-hour					
VOLUME V100:24h (V100-6h+Ad*P1440-P360)/12)	0.07	0.07	0.04	0.17	acre-ft.
	2,986.76	2,889.48	1,532.22	7,408.47	ft^3

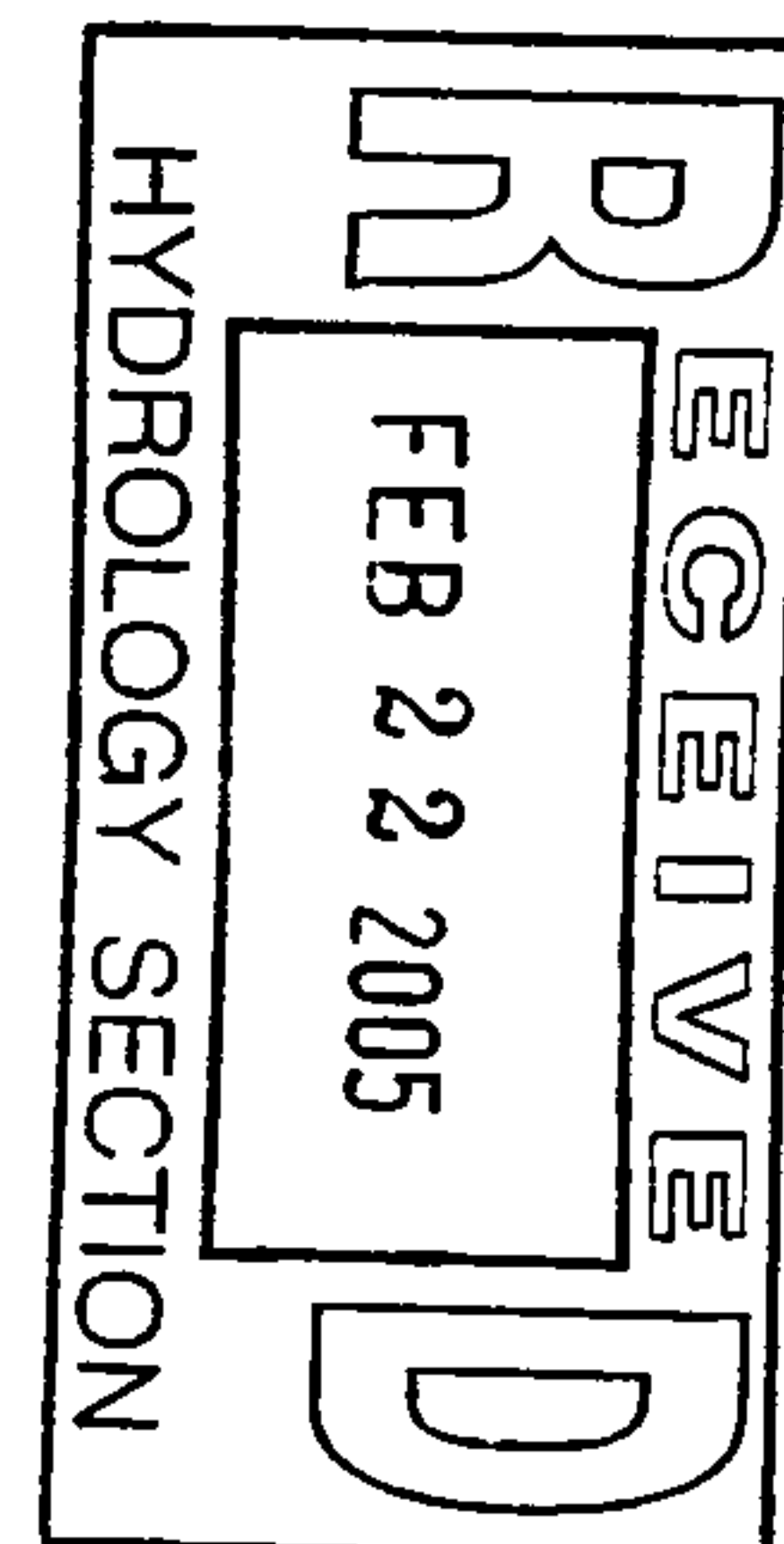
CALCULATIONS FOLLOW



## INPUT AND CALCULATIONS (CON'T)

>A.6 PEAK DISCHARGE RATE FOR SMALL WATERSHEDS (Qi)					
from Table A-9					
	1	2	3	TOTALS	
<b>100-year</b>					
Treatment A	1.29 ✓	1.29	1.29	1.29	cfs/acre
Treatment B	2.03 ✓	2.03	2.03	2.03	cfs/acre
Treatment C	2.87 ✓	2.87	2.87	2.87	cfs/acre
Treatment D	4.37 ✓	4.37	4.37	4.37	cfs/acre
<b>Q100 (Sum Qi*Ai)</b>	<b>1.60 ✓</b>	<b>1.51</b>	<b>1.28</b>	<b>4.39</b>	<b>cfs</b>
=====					
<b>10-year</b>					
Treatment A	0.24	0.24	0.24	0.24	cfs/acre
Treatment B	0.76	0.76	0.76	0.76	cfs/acre
Treatment C	1.49	1.49	1.49	1.49	cfs/acre
Treatment D	2.89	2.89	2.89	2.89	cfs/acre
<b>Q10 (Sum Qi*Ai)</b>	<b>0.97</b>	<b>0.94</b>	<b>0.48</b>	<b>2.40</b>	<b>cfs</b>
=====					
<b>2-year</b>					
Treatment A	0.00	0.00	0.00	0.00	cfs/acre
Treatment B	0.03	0.03	0.03	0.03	cfs/acre
Treatment C	0.47	0.47	0.47	0.47	cfs/acre
Treatment D	1.69	1.69	1.69	1.69	cfs/acre
<b>Q2 (Sum Qi*Ai)</b>	<b>0.51</b>	<b>0.51</b>	<b>0.02</b>	<b>1.04</b>	<b>cfs</b>
=====					

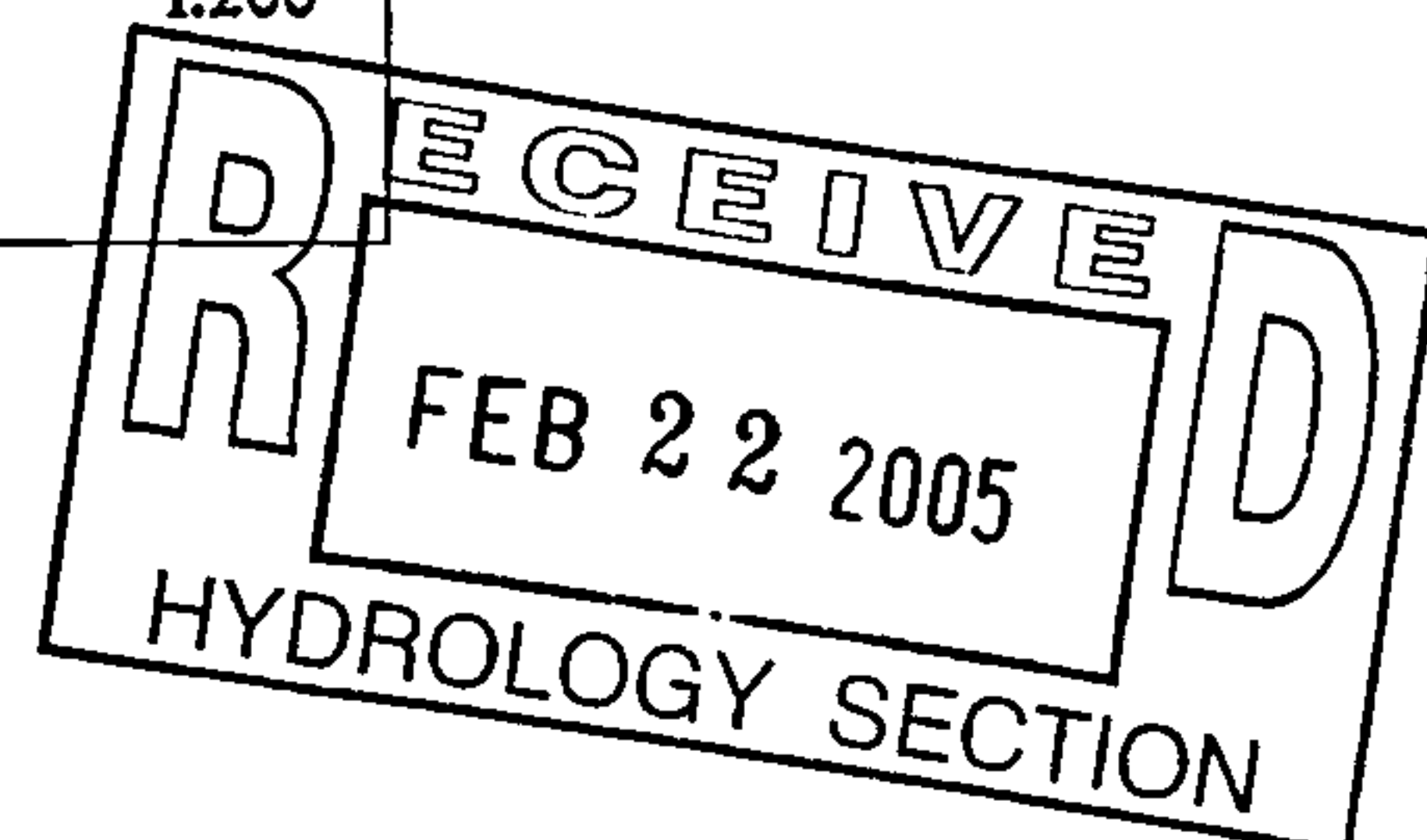
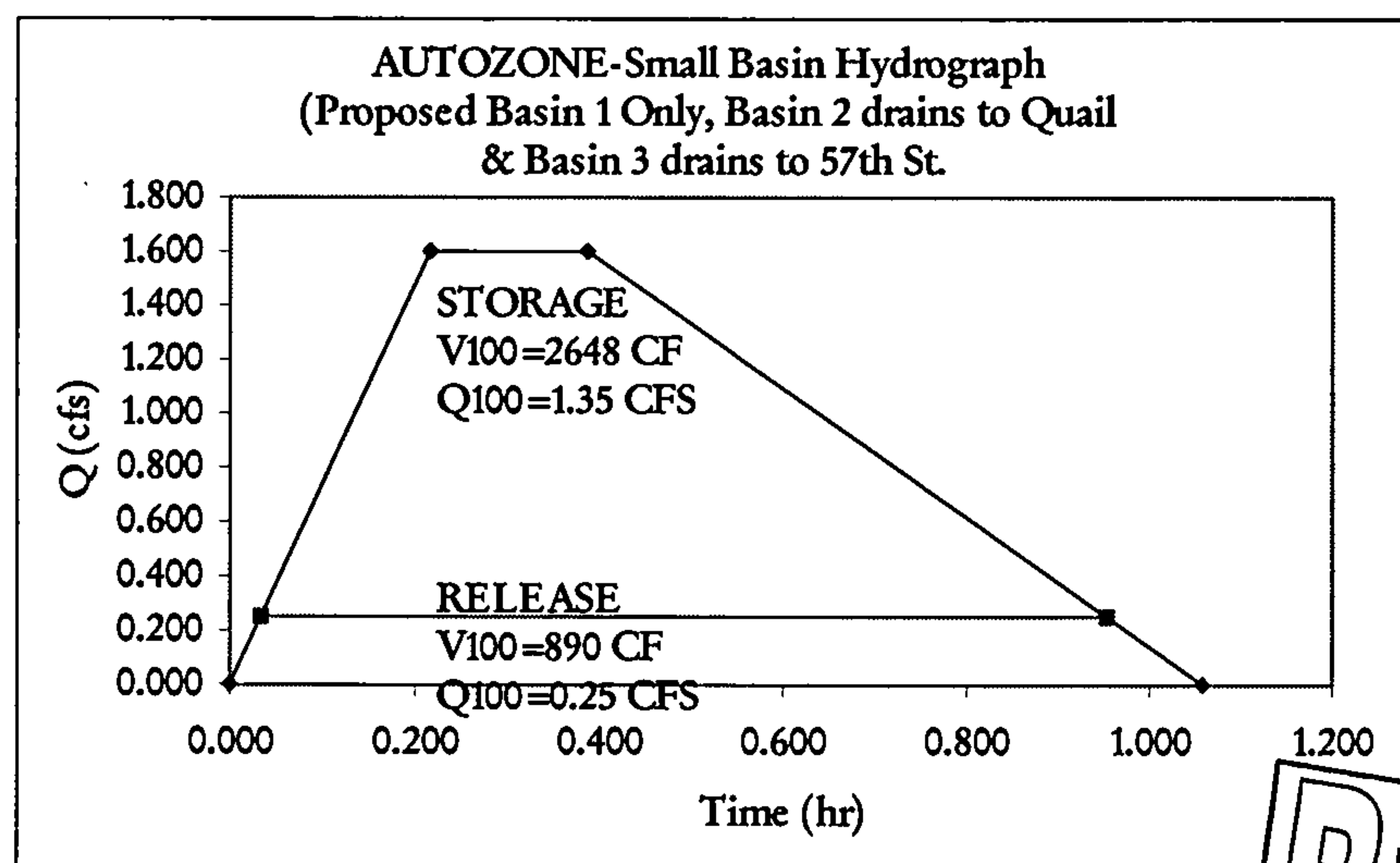
CALCULATIONS FOLLOW



Project Name :		AUTOZONE-57TH & Quail	
Project #:		A04029	
Date:		1/31/2005	
Prepared By:		Jon Pena	
Hydrograph Development Spreadsheet			
Inputs	Discharge Rate of Pond	$Q_R$ (cfs)	0.250
	Discharge Rate of Pond	$Q_R$ (cfh)	900.00
	Excess Percipitation	$E_D$ (in)	2.120
	100 Year Peak Dishcharge Rate	$Q_p$ (cfs)	1.600 ✓
	100 Year Peak Dishcharge Rate	$Q_p$ (cfs) (cfh)	5760.00
	Total Discharge Area	$A_T$ (acres)	0.440
	Area of Treatment D	$A_D$ (acres)	0.300
Outputs	Time of Concentration	$t_c$ (hrs)	0.200
	Base Time	$t_B$ (hours)	1.058
	Time to Peak Hours	$t_p$ (hours)	0.217
	Duration of Peak	$T_{pk}$ (hours)	0.170
	Flow Difference	$Q_{dif}$ (cfs)	1.350
	Flow Difference	$Q_{dif}$ (cfh)	4860.00
	Triangle Base 1 Value	$X_1$ (hr)	0.1827
	Triangle Base 2 Value	$X_2$ (hr)	0.5661
	Storage of Pond	$V_p$ (cf)	2648.00
	Total Flow Volume	$V_T$ (cf)	3537.74
	Total Release Volume	$V_R$ (cf)	889.73
	Total Pond Storage Volume	$V_P$ (cf)	2648.00

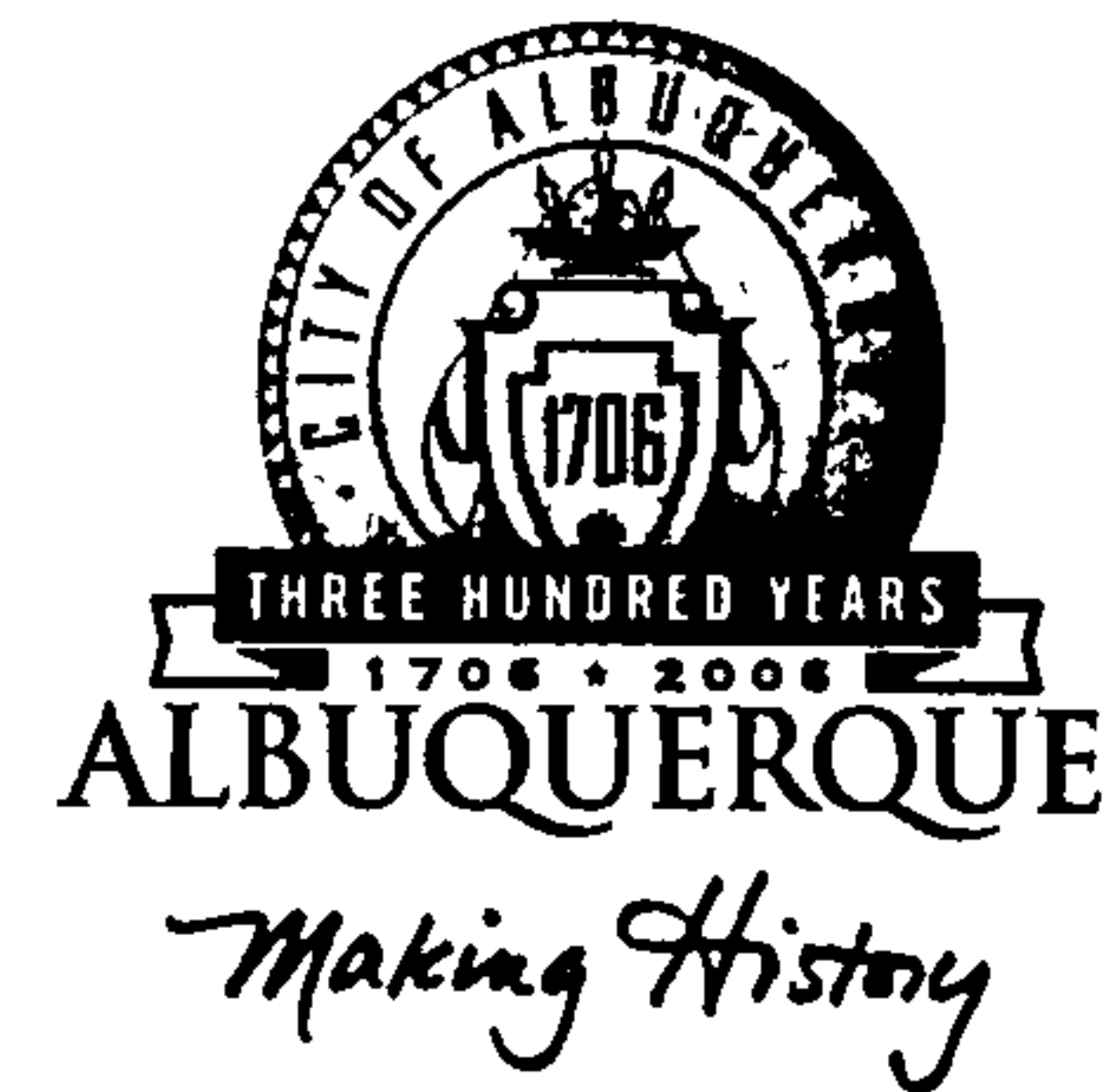
Unit Hydrograph		
	Times (hr)	Flows (cfs)
Hydrograph Values	0.000	0.000
	0.217	1.6
	0.387	1.6
	1.058	0.000
Flow Release Values	0.034	0.250
	0.953	0.250

Proposed Pond Volume			
Elevations	Area (ft <sup>2</sup> )	Volume (ft <sup>3</sup> )	Cumm. Volume (ft <sup>3</sup> )
5104.000	5522.000	0.000	0.000
5103.000	2261.000	3891.500	3891.500
5102.5	971	808.000	4699.500
	Total		4699.500





# CITY OF ALBUQUERQUE



December 20, 2004

Guy Jackson, PE  
BPLW  
6200 Uptown Blvd, Ste 400  
Albuquerque, NM 87110

**Re: Autozone at 57<sup>th</sup>/Quail Conceptual Grading and Drainage Plan  
Engineer's Stamp dated 11-8-04 (H11/D65)**

Dear Mr. Jackson,

Based upon the information provided in your submittal dated 11-8-04, the above referenced plan is approved for Site Plan for Subdivision and Site Plan for Building Permit action by the DRB. Prior to Building Permit approval, please resubmit a bound (stapled) set of the calculations, stamped and signed by the engineer of record, and a more comprehensive grading plan with all critical spot elevations, build notes and details needed to construct this project. An SO#19 Permit would be needed as well.

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

Sincerely,

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

C: file

P.O. Box 1293

Albuquerque

New Mexico 87103

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

## DRAINAGE INFORMATION SHEET

PROJECT TITLE AutoZone @ 57<sup>th</sup> & Quail

ZONE ATLAS/DRWG. FILE # H-11 / 1065

DRB#: \_\_\_\_\_ EPC # \_\_\_\_\_ WORK ORDER # \_\_\_\_\_

LEGAL DESCRIPTION: TRACT LETTERED C-ONE (C-1), OF THE PLAT OF TRACTS A-1 AND C-1, ALBUQUERQUE WEST, A SUBDIVISION IN ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

CITY ADDRESS: SW Corner of 57<sup>th</sup> & Quail

ENGINEERING FIRM: BPLW

CONTACT: Guy Jackson

ADDRESS: 6200 Uptown Blvd., Suite 220

PHONE: 880-9670

OWNER: AutoZone, Inc. CONTACT: Arthur Nave

ADDRESS: 123 South Front St. Memphis TN, 38103 PHONE: 901-495-8714

ARCHITECT: See Owner

CONTACT: See Owner

ADDRESS: \_\_\_\_\_

PHONE: See Owner

SURVEYOR: Harris Surveying CONTACT: Tony Harris

ADDRESS: 2412 Monroe NE, 87110 PHONE: 889-8056

CONTRACTOR: --- TBD CONTACT: \_\_\_\_\_

ADDRESS: --- PHONE: \_\_\_\_\_

TYPE OF SUBMITTAL:

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☒ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION
- ☐ OTHER \_\_\_\_\_

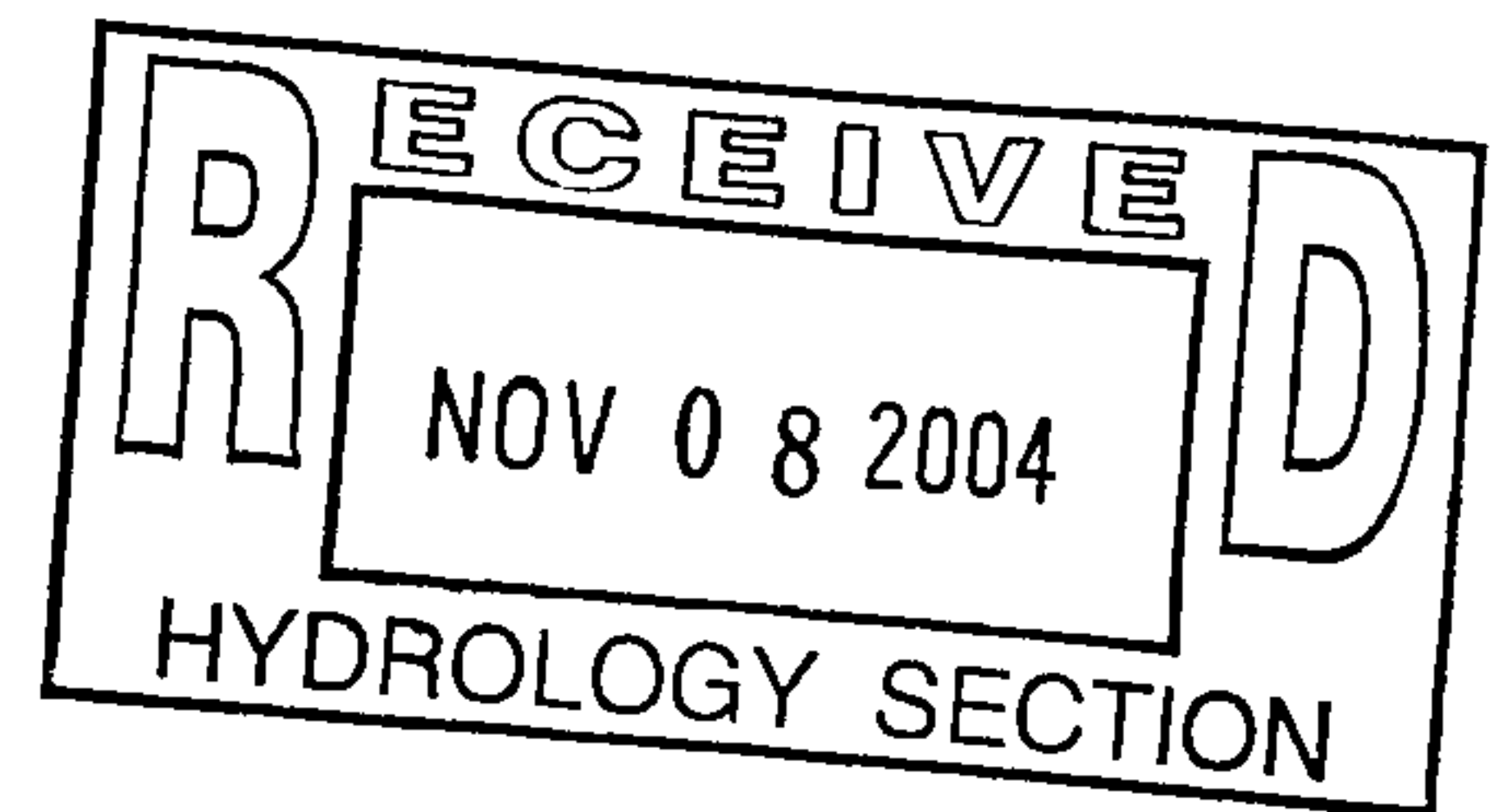
PRE-DESIGN MEETING:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☒ S. DEV. PLAN FOR SUB'D APPROVAL
- ☒ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY APPROVAL
- ☐ GRADING PERMIT APPROVALS
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.B. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS

DATE SUBMITTED: NOVEMBER 8, 2004

BY: Guy Jackson, PE



# BPLW

Architects & Engineers, Inc.

6200 Uptown Blvd. NE  
Suite 400  
Albuquerque, New Mexico 87110  
(505) 881-BPLW (2759)  
FAX (505) 881-1230  
Web site: <http://www.bplw.com>

## Officers

William L. Burns, AIA  
Ronald L. Peters, AIA, AICP  
Joseph D. Long, Emeritus, AIA, PE  
Bill J. Waters, Emeritus, AIA  
Eugene A. Valentine, FCSI, CCS, AIA  
W. Paul Waters, AIA

## Senior Vice Presidents

Roger Easley, AICP  
Guy C. Jackson, PE  
James M. Jones, Jr., PE  
Carl W. Jordan, AIA  
Ross H. Krayter, PE  
Pamela M. Lentini, PE  
Michael J. Melichar, PE  
Bruce A. Schneider, PE  
Maureen M. Walter, AIA, CCS

## Vice Presidents

Paul W. Browne, AIA, CDT  
Curtis L. Chavez  
Ian F. Harmon  
Tyler M. Mason, AIA, CCS  
Mary Ann Modzelewski, AIA  
Daniel R. Partida, AIA  
L. Fontaine Sanchez  
Molly E. Smith, AICP

November 8, 2004

Bradley L. Bingham, PE  
Section Head, Hydrology  
City of Albuquerque Public Works  
PO Box 1293  
Albuquerque, New Mexico 87103

**Re: *AutoZone -57<sup>TH</sup> & QUAIL***  
***(Zone Atlas Map H-11)***  
***BPLW Project Number: A04029***

Dear Brad:

Attached for review, comment and/or approval are the following:

- One (1) Drainage Information Sheet
- One (1) copy of the Conceptual Grading & Drainage Plan
- One (1) copy of Supporting Drainage Calculations

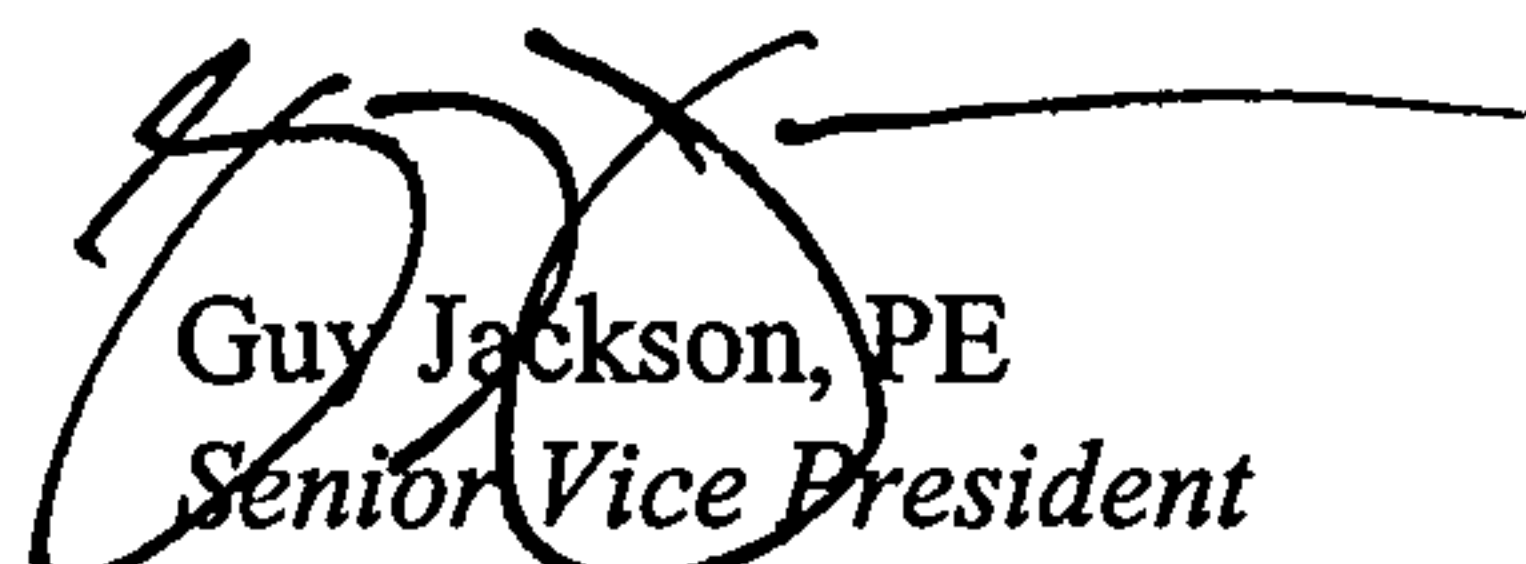
The proposed AutoZone project is located at SE corner of the 57<sup>th</sup> and Quail intersection. The current legal description for the site is "TRACT LETTERED C-ONE (C-1), OF THE PLAT OF TRACTS A-1 AND C-1, ALBUQUERQUE WEST, A SUBDIVISION IN ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO".

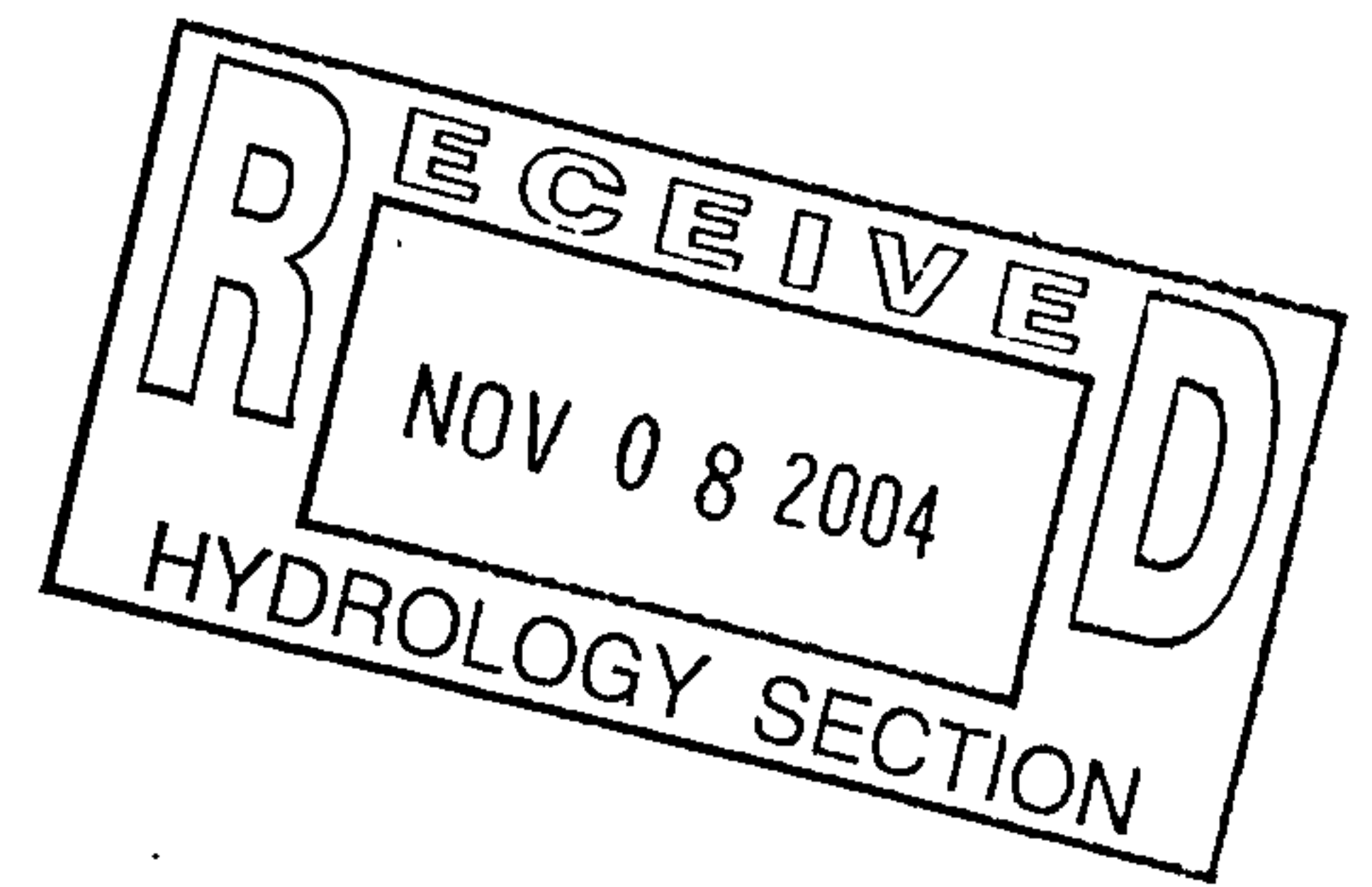
The plan being submitted is the AutoZone on Tract C-1 for EPC Approval. The applicable drainage calculations have been highlighted to assist you in your review.

If you have any questions, please contact me at (505) 881-2759.

Sincerely,

BPLW ARCHITECTS & ENGINEERS, INC.

  
Guy Jackson, PE  
Senior Vice President  
Director of Civil Engineering



# Drainage Summary

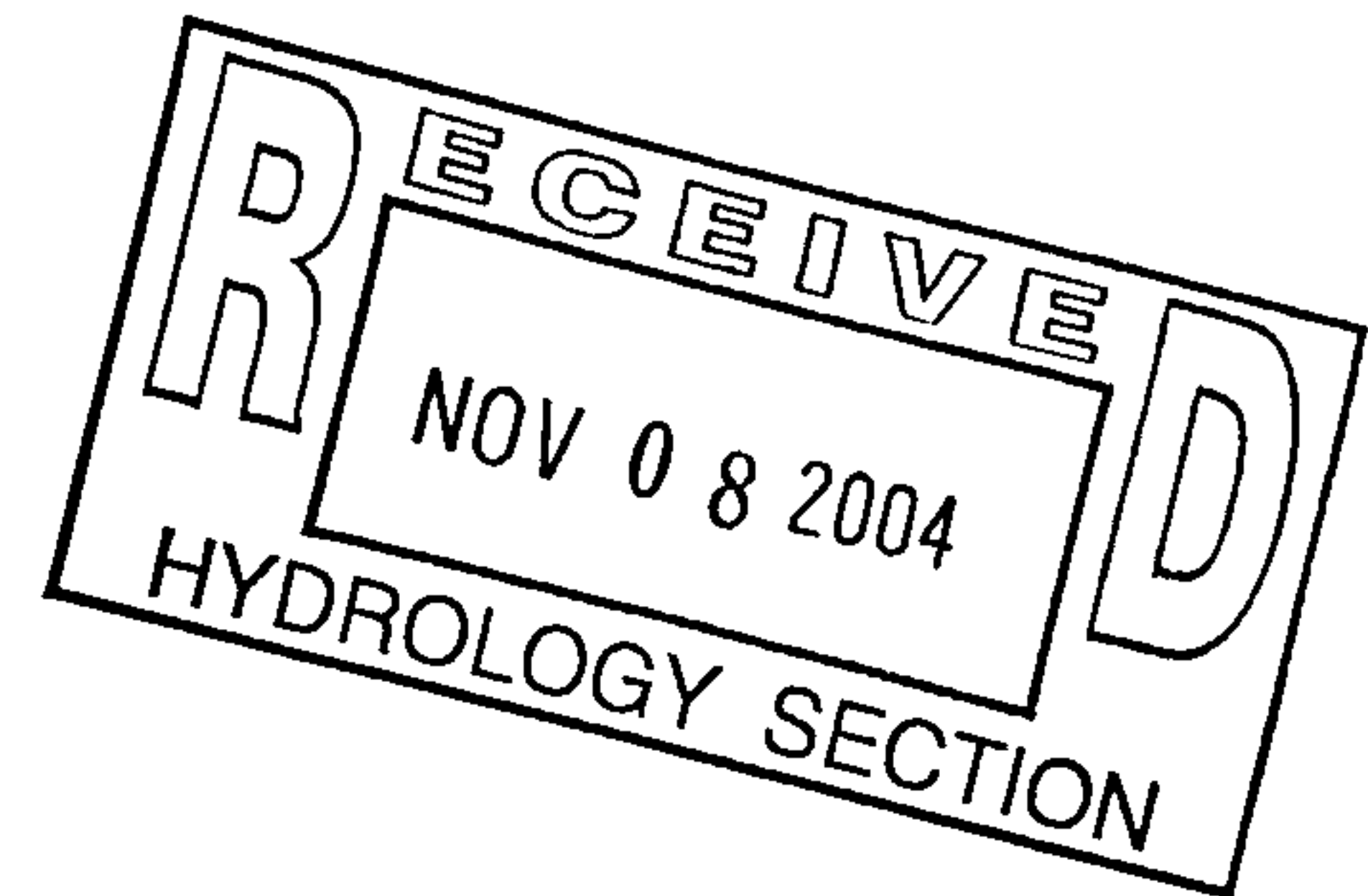
## Drainage Summary

Project: AUTOZONE 57TH & QUAIL  
 Project Number: A04029  
 Date: 10/02/04  
 By: JON PENA

Site Location

Precipitation Zone

1 Per Table A-1 COA DPM Section 22.2



### Existing summary

Basin Name	BASIN 1			TOTAL
<b>Soil Treatment (acres)</b>				
Area "A"	0.00	0.00	0.00	0.00
Area "B"	1.47	0.00	0.00	1.47
Area "C"	0.00	0.00	0.00	0.00
Area "D"	0.00	0.00	0.00	0.00
TOTAL	1.47	0.00	0.00	1.47
<b>Excess Runoff (acre-feet)</b>				
100yr. 6hr.	0.08	#DIV/0!	#DIV/0!	#DIV/0!
10yr. 6hr.	0.03	#DIV/0!	#DIV/0!	#DIV/0!
2yr. 6hr.	0.00	#DIV/0!	#DIV/0!	#DIV/0!
100yr. 24hr.	0.08	#DIV/0!	#DIV/0!	#DIV/0!
TOTAL	0.19	#DIV/0!	#DIV/0!	#DIV/0!
<b>Peak Discharge (cfs)</b>				
100 yr.	2.98	0.00	0.00	2.98
10yr.	1.12	0.00	0.00	1.12
2yr.	0.04	0.00	0.00	0.04
TOTAL	4.15	0.00	0.00	4.15

### Proposed summary

Basin Name	BASIN 1	BASIN 2	BASIN 3	TOTAL
<b>Soil Treatment (acres)</b>				
Area "A"	0.00	0.00	0.00	0.00
Area "B"	0.14	0.10	0.63	0.87
Area "C"	0.00	0.00	0.00	0.00
Area "D"	0.30	0.30	0.00	0.60
TOTAL	0.44	0.40	0.63	1.47
<b>Excess Runoff (acre-feet)</b>				
100yr. 6hr.	0.06	0.05	0.04	0.11
10yr. 6hr.	0.03	0.03	0.01	0.07
2yr. 6hr.	0.02	0.02	0.00	0.04
100yr. 24hr.	0.07	0.07	0.04	0.13
TOTAL	0.18	0.17	0.08	0.35
<b>Peak Discharge (cfs)</b>				
100 yr.	1.60	1.51	1.28	4.39
10yr.	0.97	0.94	0.48	2.40
2yr.	0.51	0.51	0.02	1.04
TOTAL	3.08	2.97	1.78	7.82

BPLW

Architects and Engineers

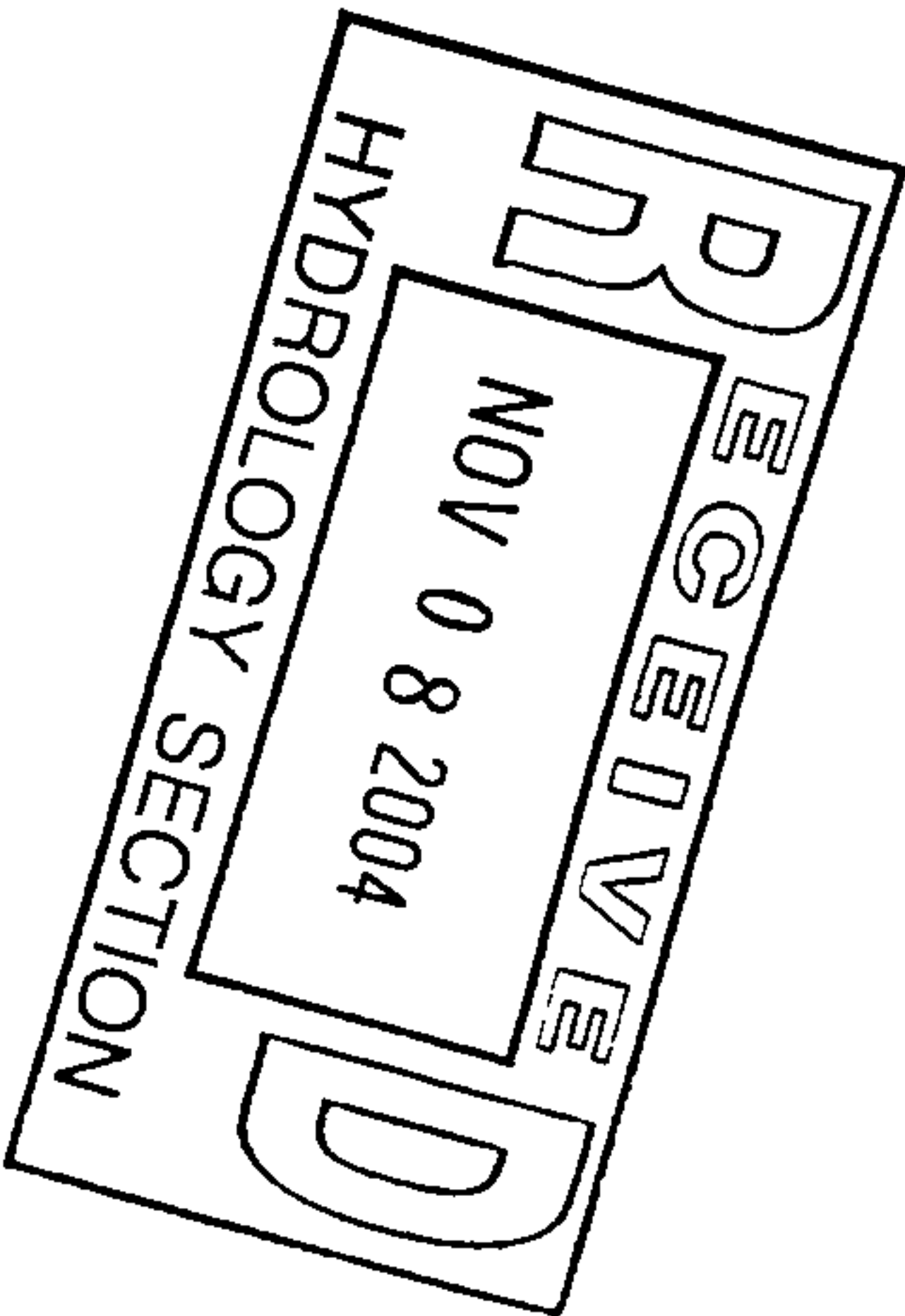
PROJECT AUTOZONE 57TH & QUAIL  
PROJECT NO. A04029  
DATE 10/02/04  
BY JON PENA

DPM Section 22.2 - Hydrology

Part A-Watersheds less than 40 acres.  
January, 1993

INSTRUCTIONS

- \* Spread sheet requires three input areas (dark cells):
  - Location
    - >A.1 Precipitation Zone
    - >A.3 Land Treaments
- \* Values from the tables are automatically placed using "if" statements.
- \* Table values should be checked for correctness for each use.



SUMMARY

Location	0	BASIN 1	0.00	0.00	0.00	TOTALS	
Precipitation Zone		1	1	1	1	1	
Land Area		1.47	0.00	0.00	0.00	1.47	acres
Excess Precipitation Volume							
>>> 100-year 6-hour (design)		0.08	#DIV/0!	#DIV/0!	#DIV/0!	0.08	acre-ft.
10-year 6-hour		0.03	#DIV/0!	#DIV/0!	#DIV/0!	0.03	acre-ft.
2-year 6-hour		0.00	#DIV/0!	#DIV/0!	#DIV/0!	0.00	acre-ft.
100-year 24-hour		0.08	#DIV/0!	#DIV/0!	#DIV/0!	0.08	acre-ft.
Peak Discharge Rates (DPM)							
>>> Q100 (design)		2.98	0.00	0.00	0.00	2.98	cfs
Q10		1.12	0.00	0.00	0.00	1.12	cfs
Q2		0.04	0.00	0.00	0.00	0.04	cfs

CALCULATIONS FOLLOW

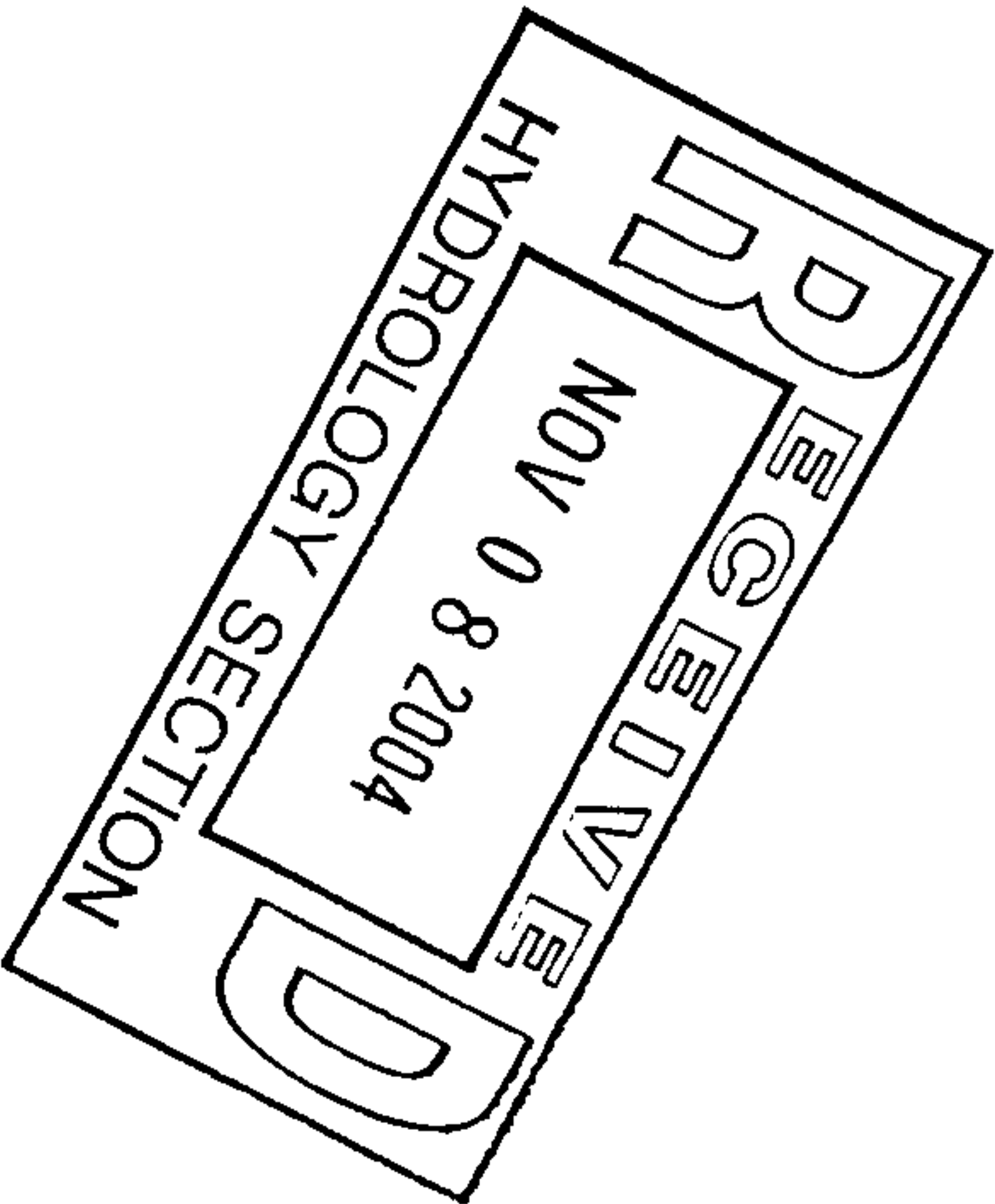


Existing hyd.

INPUT AND CALCULATIONS

LOCATION	BASIN 1	0.00	0.00	0.00		
>A.1 PRECIPITATION ZONE (from Table A-1)	1	1	1	1	1	1
>A.2 DEPTHS						
(from Table A-2)					TOTALS	
100-YEAR STORM (P60)	1.87	1.87	1.87	1.87	1.87	inches
100-YEAR STORM (P360)	2.20	2.20	2.20	2.20	2.20	inches
100-YEAR STORM (P1440)	2.66	2.66	2.66	2.66	2.66	inches
10-YEAR (P360) (Calculated: P360*RPF10)	1.47	1.47	1.47	1.47	1.47	inches
2-YEAR (P360) (Calculated: P360*RPF2)	0.95	0.95	0.95	0.95	0.95	inches
>A.3 LAND TREATMENTS (AI)						
Treatment A	0.00	0.00	0.00	0.00	0.00	acres
Treatment B	1.47	0.00	0.00	0.00	1.47	acres
Treatment C	0.00	0.00	0.00	0.00	0.00	acres
Treatment D	0.00	0.00	0.00	0.00	0.00	acres
Total Area	1.47	0.00	0.00	0.00	1.47	acres
>A.4 ABSTRACTIONS						
	See A.5	See A.5	See A.5	See A.5	See A.5	

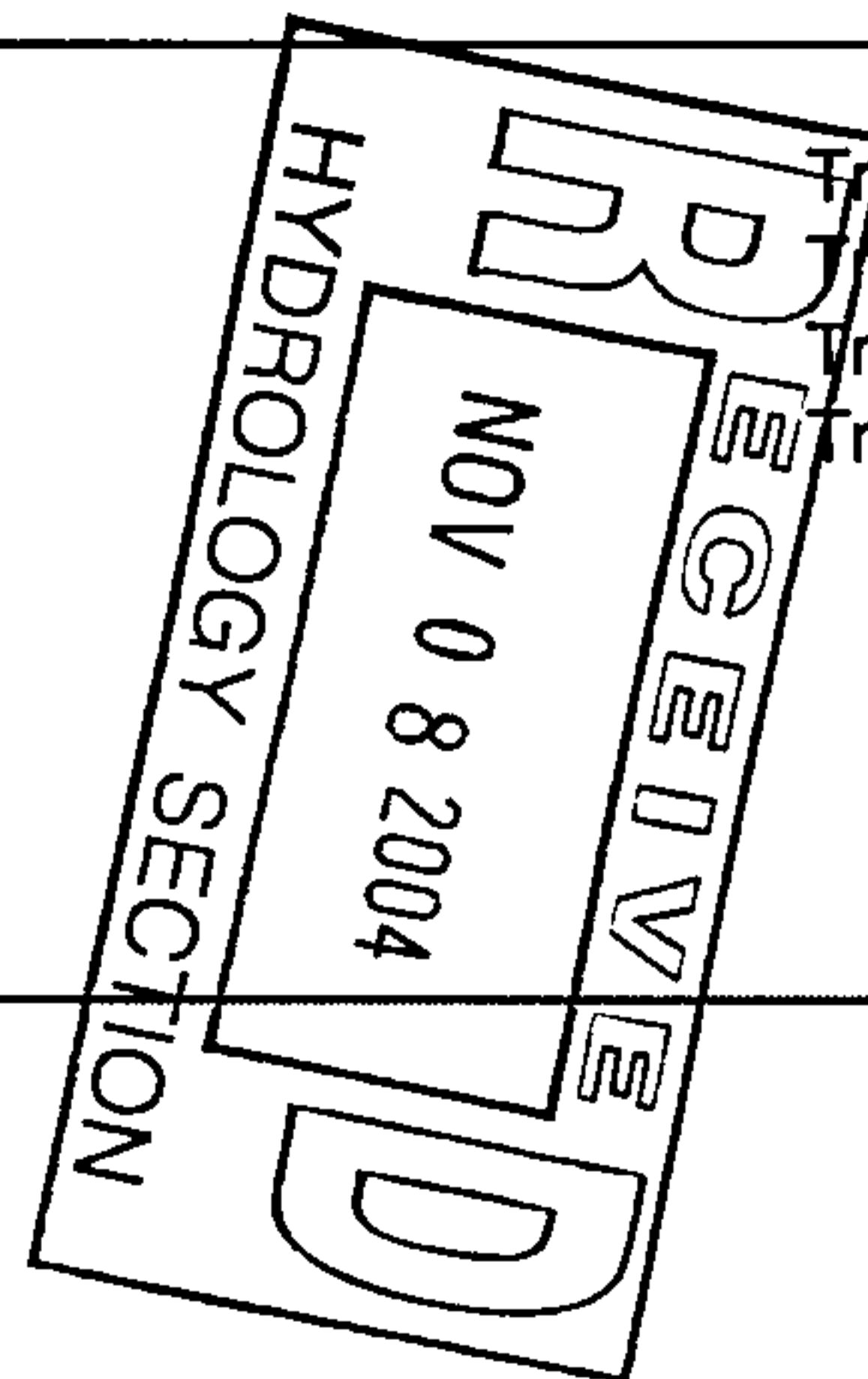
CALCULATIONS FOLLOW



Existing hyd.

# INPUT AND CALCULATIONS (CON'T)

>A.5 EXCESS PRECIPITATION 6 HOUR AND 24 HOUR (Ei)						
from Table A-8						
100-year 6-hour					<b>TOTALS</b>	
Treatment A	0.44	0.44	0.44	0.44	0.44	inches
Treatment B	0.67	0.67	0.67	0.67	0.67	inches
Treatment C	0.99	0.99	0.99	0.99	0.99	inches
Treatment D	1.97	1.97	1.97	1.97	1.97	inches
<b>WEIGHTED E (Sum Ei*Ai/A)</b>	0.67	#DIV/0!	#DIV/0!	#DIV/0!	0.67	inches
<b>VOLUME V100:6h (E*A)</b>	0.08	#DIV/0!	#DIV/0!	#DIV/0!	0.08	acre-ft.
	3,575.19	#DIV/0!	#DIV/0!	#DIV/0!	3,575.19	ft^3
=====						
10-year 6-hour						
Treatment A	0.08	0.08	0.08	0.08	0.08	inches
Treatment B	0.22	0.22	0.22	0.22	0.22	inches
Treatment C	0.44	0.44	0.44	0.44	0.44	inches
Treatment D	1.24	1.24	1.24	1.24	1.24	inches
<b>WEIGHTED E (Sum Ei*Ai/A)</b>	0.22	#DIV/0!	#DIV/0!	#DIV/0!	0.22	inches
<b>VOLUME V10:6h (E*A)</b>	0.03	#DIV/0!	#DIV/0!	#DIV/0!	0.03	acre-ft.
	1,173.94	#DIV/0!	#DIV/0!	#DIV/0!	1,173.94	ft^3
=====						
2-year 6-hour						
Treatment A	0.00	0.00	0.00	0.00	0.00	inches
Treatment B	0.01	0.01	0.01	0.01	0.01	inches
Treatment C	0.12	0.12	0.12	0.12	0.12	inches
Treatment D	0.72	0.72	0.72	0.72	0.72	inches
<b>WEIGHTED E (Sum Ei*Ai/A)</b>	0.01	#DIV/0!	#DIV/0!	#DIV/0!	0.01	inches
<b>VOLUME V2:6h (E*A)</b>	0.00	#DIV/0!	#DIV/0!	#DIV/0!	0.00	acre-ft.
	53.36	#DIV/0!	#DIV/0!	#DIV/0!	53.36	ft^3
=====						
100-year 24-hour						
<b>VOLUME V100:24h</b>	0.08	#DIV/0!	#DIV/0!	#DIV/0!	0.08	acre-ft.
<b>(V100-6h+Ad*P1440-P360)/12)</b>	3,575.19	#DIV/0!	#DIV/0!	#DIV/0!	3,575.19	ft^3
=====						



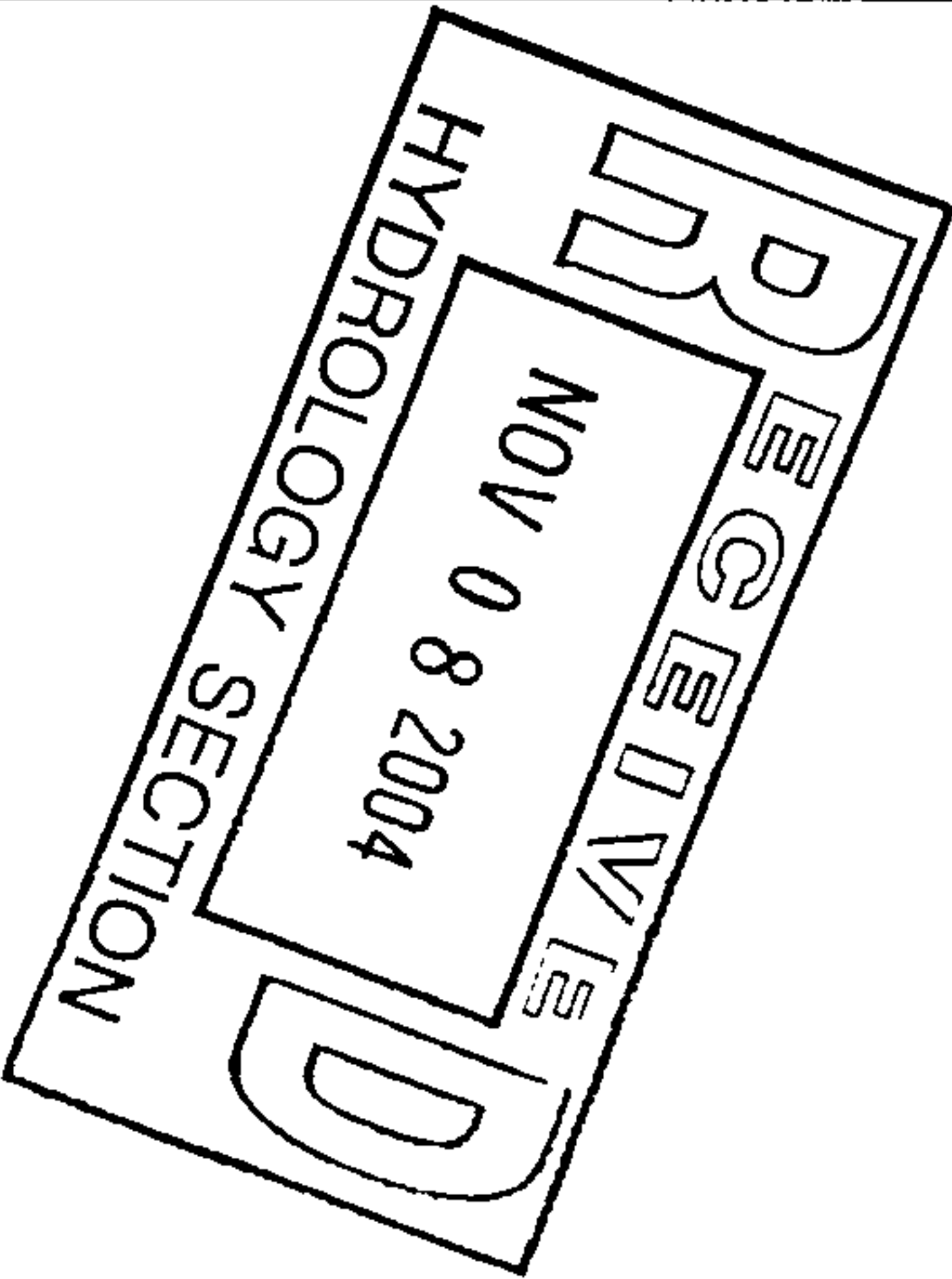
CALCULATIONS FOLLOW

Existing hyd.

INPUT AND CALCULATIONS (CON'T)

>A.6 PEAK DISCHARGE RATE FOR SMALL WATERSHEDS (Qi)						
from Table A-9						
100-year					TOTALS	
Treatment A	1.29	1.29	1.29	1.29	1.29	cfs/acre
Treatment B	2.03	2.03	2.03	2.03	2.03	cfs/acre
Treatment C	2.87	2.87	2.87	2.87	2.87	cfs/acre
Treatment D	4.37	4.37	4.37	4.37	4.37	cfs/acre
Q100 (Sum Qi*Ai)	2.98	0.00	0.00	0.00	2.98	cfs
=====						
10-year						
Treatment A	0.24	0.24	0.24	0.24	0.24	cfs/acre
Treatment B	0.76	0.76	0.76	0.76	0.76	cfs/acre
Treatment C	1.49	1.49	1.49	1.49	1.49	cfs/acre
Treatment D	2.89	2.89	2.89	2.89	2.89	cfs/acre
Q10 (Sum Qi*Ai)	1.12	0.00	0.00	0.00	1.12	cfs
=====						
2-year						
Treatment A	0.00	0.00	0.00	0.00	0.00	cfs/acre
Treatment B	0.03	0.03	0.03	0.03	0.03	cfs/acre
Treatment C	0.47	0.47	0.47	0.47	0.47	cfs/acre
Treatment D	1.69	1.69	1.69	1.69	1.69	cfs/acre
Q2 (Sum Qi*Ai)	0.04	0.00	0.00	0.00	0.04	cfs
=====						

CALCULATIONS FOLLOW



**BPLW**

Architects and Engineers

PROJECT AUTOZONE 57TH & QUAIL  
 PROJECT NO. A04029  
 DATE 10/02/04  
 BY JON PENA

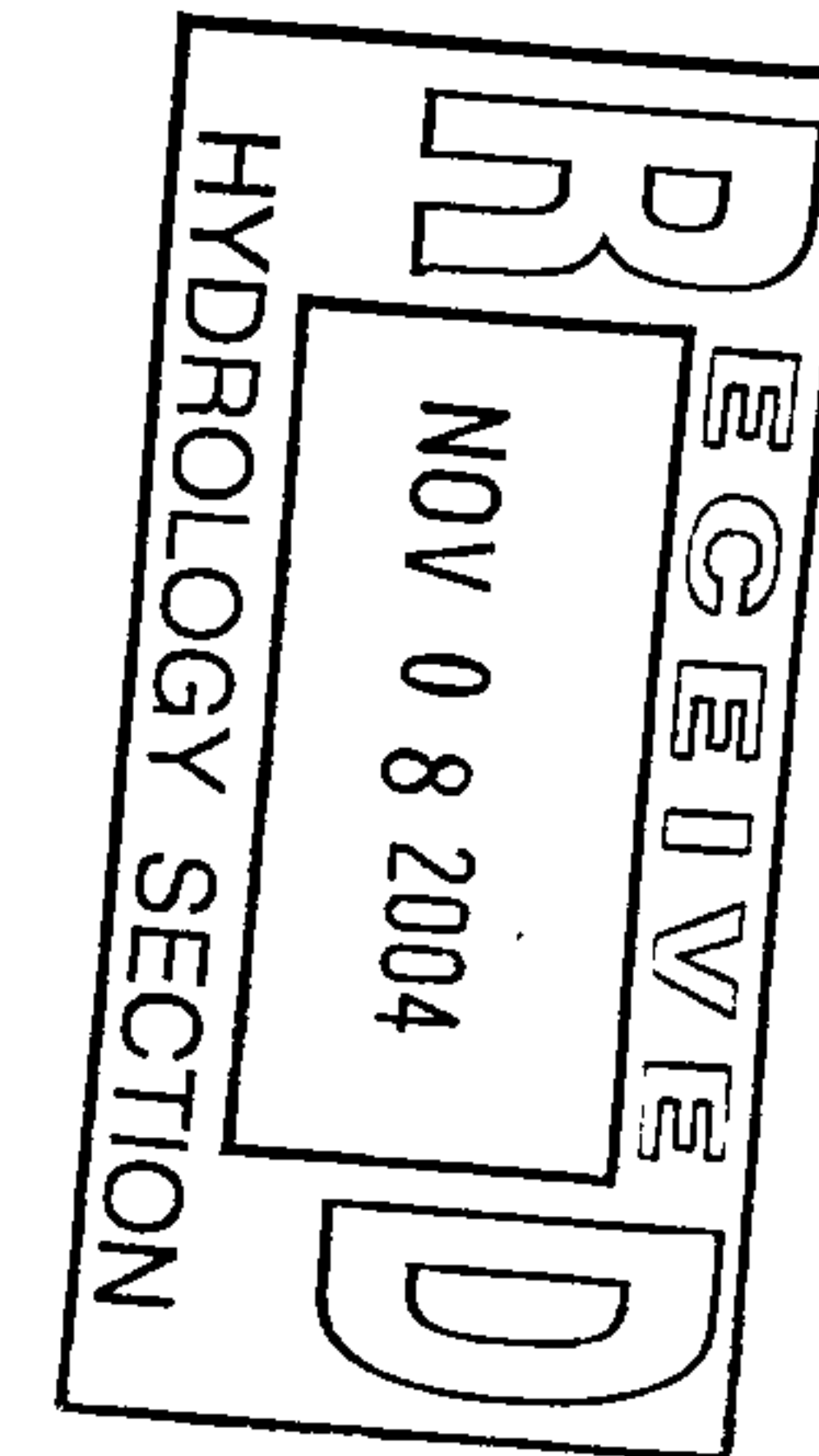
## DPM Section 22.2 - Hydrology

Part A-Watersheds less than 40 acres.

January, 1993

### INSTRUCTIONS

- \* Spread sheet requires three input areas (dark cells):
  - Location
    - >A.1 Precipitation Zone
    - >A.3 Land Treaments
- \* Values from the tables are automatically placed using "if" statements.
- \* Table values should be checked for correctness for each use.



### SUMMARY

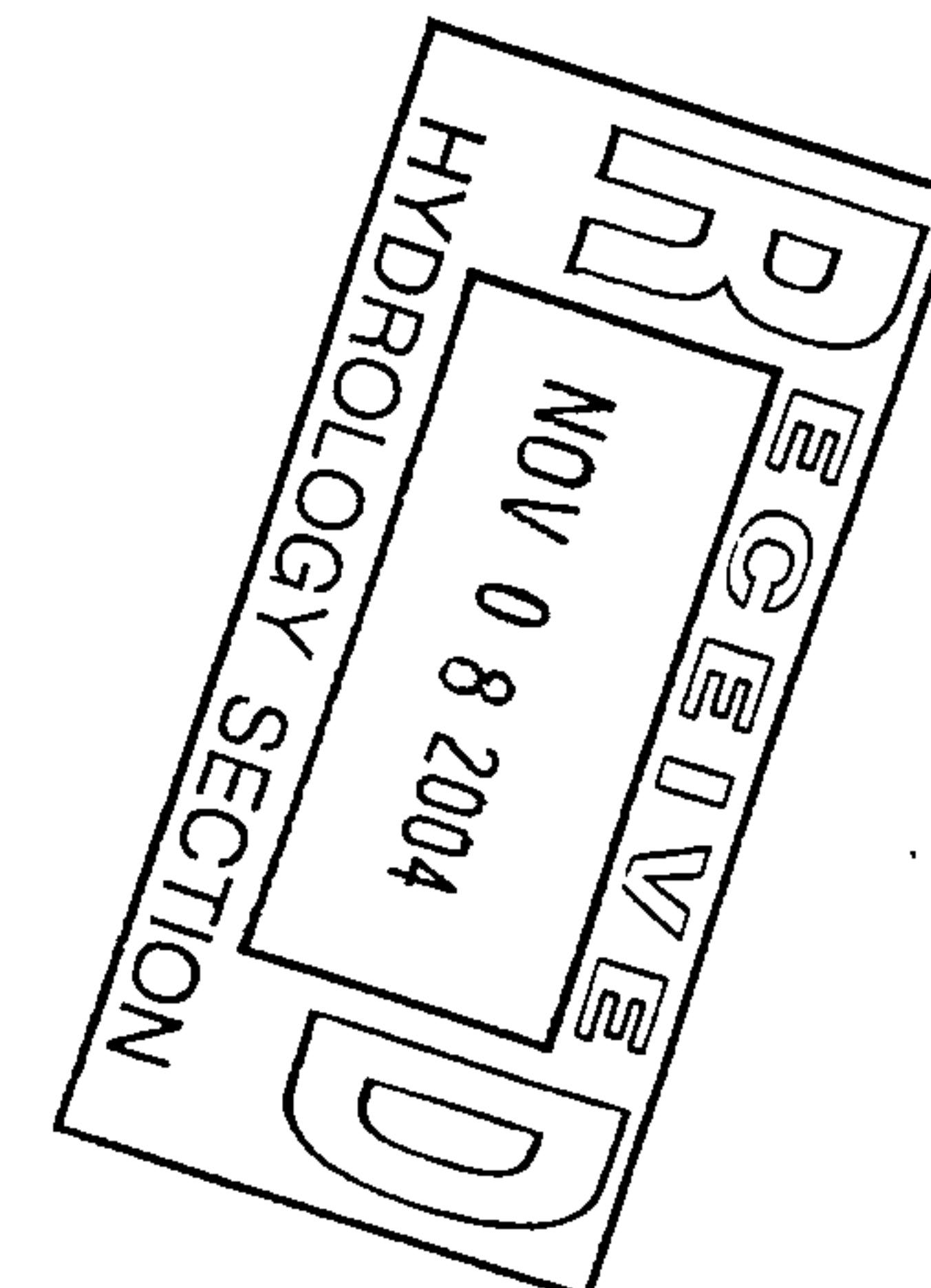
Location	BASIN 1	BASIN 2	BASIN 3	TOTALS	
Precipitation Zone	1	1	1	1	
Land Area	0.44	0.40	0.63	1.47	acres
Excess Precipitation Volume					
>>> 100-year 6-hour (design)	0.06	0.05	0.04	0.15	acre-ft.
10-year 6-hour	0.03	0.03	0.01	0.08	acre-ft.
2-year 6-hour	0.02	0.02	0.00	0.04	acre-ft.
100-year 24-hour	0.07	0.07	0.04	0.17	acre-ft.
Peak Discharge Rates (DPM)					
>>> Q100 (design)	1.60	1.51	1.28	4.39	cfs
Q10	0.97	0.94	0.48	2.40	cfs
Q2	0.51	0.51	0.02	1.04	cfs

CALCULATIONS FOLLOW

## INPUT AND CALCULATIONS

LOCATION	BASIN 1	BASIN 2	BASIN 3	TOTALS	
>A.1 PRECIPITATION ZONE (from Table A-1)	1	1	1	1	
>A.2 DEPTHS (from Table A-2)					
100-YEAR STORM (P60)	1.87	1.87	1.87	1.87	inches
100-YEAR STORM (P360)	2.20	2.20	2.20	2.20	inches
100-YEAR STORM (P1440)	2.66	2.66	2.66	2.66	inches
10-YEAR (P360) (Calculated: $P360 \cdot RPF10$ )	1.47	1.47	1.47	1.47	inches
2-YEAR (P360) (Calculated: $P360 \cdot RPF2$ )	0.95	0.95	0.95	0.95	inches
>A.3 LAND TREATMENTS (Ai)					
Treatment A	0.00	0.00	0.00	0.00	acres
Treatment B	0.14	0.10	0.63	0.87	acres
Treatment C	0.00	0.00	0.00	0.00	acres
Treatment D	0.30	0.30	0.00	0.60	acres
Total Area	0.44	0.40	0.63	1.47	acres
>A.4 ABSTRACTIONS	See A.5	See A.5	See A.5	See A.5	

CALCULATIONS FOLLOW

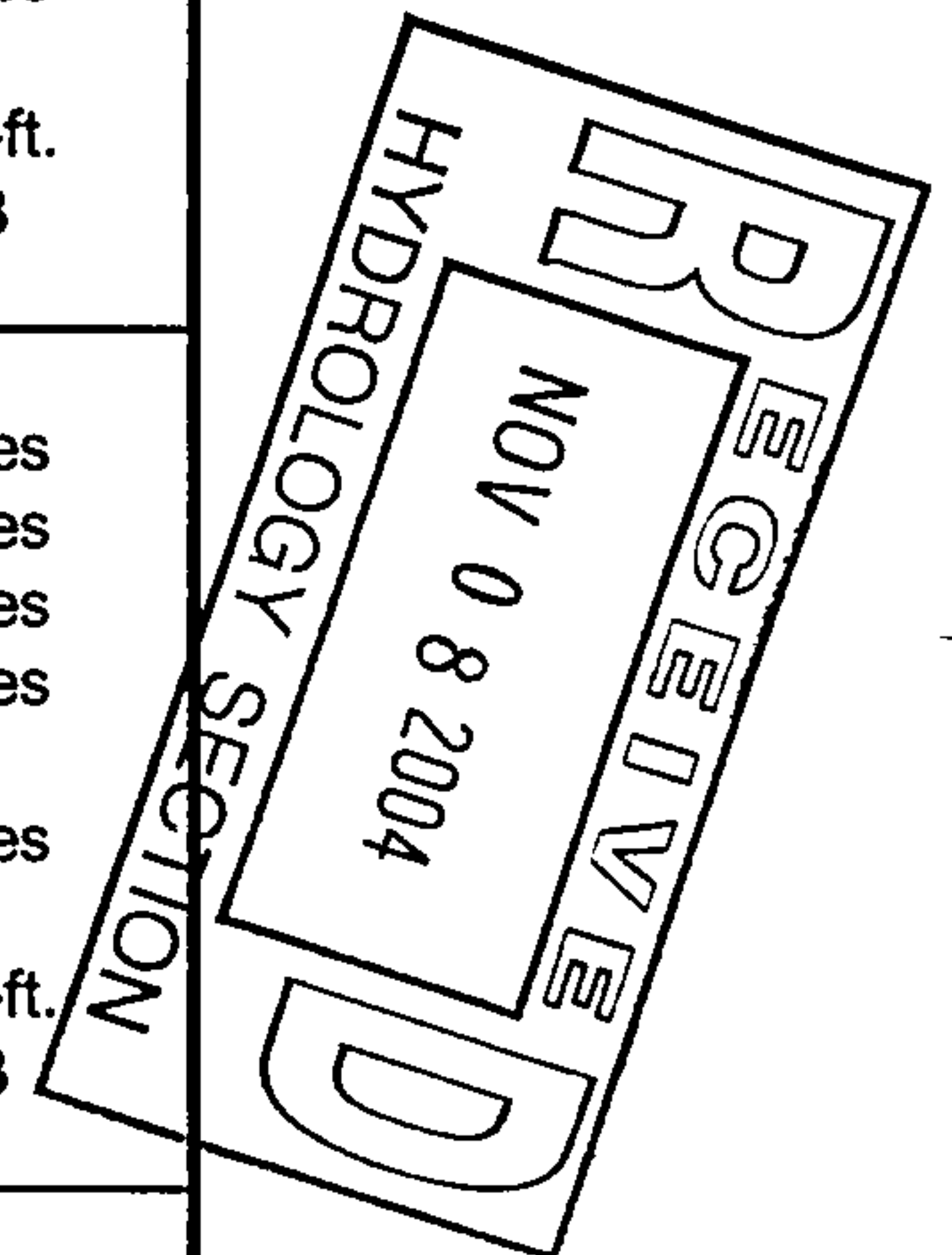




## INPUT AND CALCULATIONS (CON'T)

>A.5 EXCESS PRECIPITATION 6 HOUR AND 24 HOUR (Ei)					
from Table A-8				TOTALS	
100-year 6-hour					
Treatment A	0.44	0.44	0.44	0.44	inches
Treatment B	0.67	0.67	0.67	0.67	inches
Treatment C	0.99	0.99	0.99	0.99	inches
Treatment D	1.97	1.97	1.97	1.97	inches
WEIGHTED E (Sum Ei*Ai/A)	1.56	1.65	0.67	1.20	inches
VOLUME V100:6h (E*A)	0.06	0.05	0.04	0.15	acre-ft.
	2,485.82	2,388.54	1,532.22	6,406.59	ft^3
=====					
10-year 6-hour					
Treatment A	0.08	0.08	0.08	0.08	inches
Treatment B	0.22	0.22	0.22	0.22	inches
Treatment C	0.44	0.44	0.44	0.44	inches
Treatment D	1.24	1.24	1.24	1.24	inches
WEIGHTED E (Sum Ei*Ai/A)	0.92	0.99	0.22	0.64	inches
VOLUME V10:6h (E*A)	0.03	0.03	0.01	0.08	acre-ft.
	1,462.16	1,430.22	503.12	3,395.50	ft^3
=====					
2-year 6-hour					
Treatment A	0.00	0.00	0.00	0.00	inches
Treatment B	0.01	0.01	0.01	0.01	inches
Treatment C	0.12	0.12	0.12	0.12	inches
Treatment D	0.72	0.72	0.72	0.72	inches
WEIGHTED E (Sum Ei*Ai/A)	0.49	0.54	0.01	0.30	inches
VOLUME V2:6h (E*A)	0.02	0.02	0.00	0.04	acre-ft.
	789.16	787.71	22.87	1,599.74	ft^3
=====					
100-year 24-hour					
VOLUME V100:24h (V100-6h+Ad*P1440-P360)/12)	0.07	0.07	0.04	0.17	acre-ft.
	2,986.76	2,889.48	1,532.22	7,408.47	ft^3
=====					

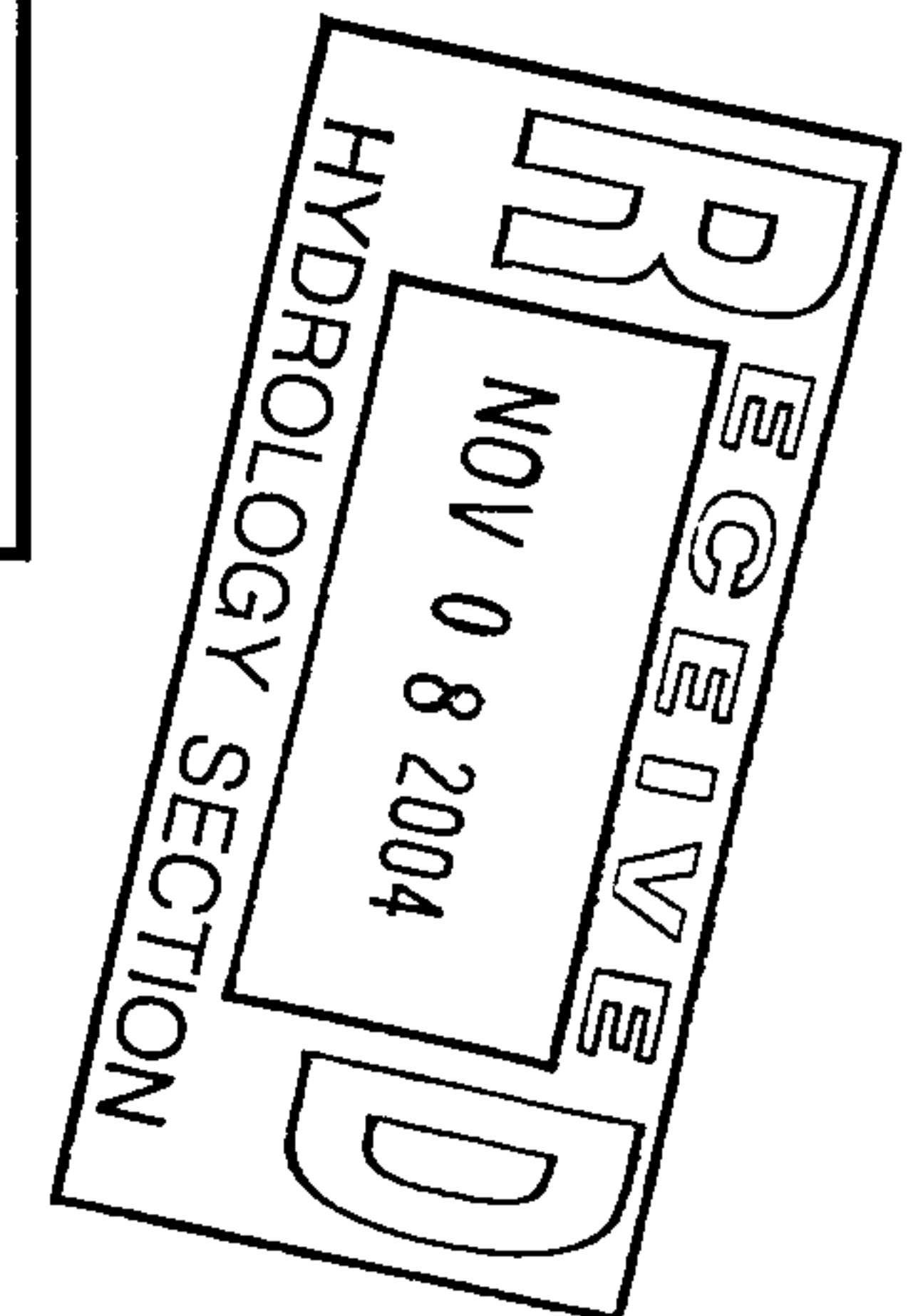
CALCULATIONS FOLLOW



## INPUT AND CALCULATIONS (CON'T)

<b>&gt;A.6 PEAK DISCHARGE RATE FOR SMALL WATERSHEDS (Qi)</b>					
from Table A-9					
<b>100-year</b>				<b>TOTALS</b>	
Treatment A	1.29	1.29	1.29	1.29	cfs/acre
Treatment B	2.03	2.03	2.03	2.03	cfs/acre
Treatment C	2.87	2.87	2.87	2.87	cfs/acre
Treatment D	4.37	4.37	4.37	4.37	cfs/acre
<b>Q100 (Sum Qi*Ai)</b>	<b>1.60</b>	<b>1.51</b>	<b>1.28</b>	<b>4.39</b>	<b>cfs</b>
=====					
<b>10-year</b>					
Treatment A	0.24	0.24	0.24	0.24	cfs/acre
Treatment B	0.76	0.76	0.76	0.76	cfs/acre
Treatment C	1.49	1.49	1.49	1.49	cfs/acre
Treatment D	2.89	2.89	2.89	2.89	cfs/acre
<b>Q10 (Sum Qi*Ai)</b>	<b>0.97</b>	<b>0.94</b>	<b>0.48</b>	<b>2.40</b>	<b>cfs</b>
=====					
<b>2-year</b>					
Treatment A	0.00	0.00	0.00	0.00	cfs/acre
Treatment B	0.03	0.03	0.03	0.03	cfs/acre
Treatment C	0.47	0.47	0.47	0.47	cfs/acre
Treatment D	1.69	1.69	1.69	1.69	cfs/acre
<b>Q2 (Sum Qi*Ai)</b>	<b>0.51</b>	<b>0.51</b>	<b>0.02</b>	<b>1.04</b>	<b>cfs</b>
=====					

CALCULATIONS FOLLOW



# DRAINAGE INFORMATION SHEET

(REV. 11/01/2001)

H-11/D65

PROJECT TITLE: Laundromat / Car Wash ZONE MAP/DRG. FILE #: H-11  
DRB # \_\_\_\_\_ EPC# \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: Tract C-1 Albuquerque West  
CITY ADDRESS: \_\_\_\_\_

ENGINEERING FIRM: Claudio Vigil Architects CONTACT: Arthur Blessen  
ADDRESS: 1801 Rio Grande Blvd. PHONE: 842-1113  
CITY, STATE: Albuquerque, NM ZIP CODE: 87104

OWNER: Howard Mock CONTACT: \_\_\_\_\_  
ADDRESS: 2906 Broadway PHONE: \_\_\_\_\_  
CITY, STATE: Albuquerque, NM ZIP CODE: 87107

ARCHITECT: Claudio Vigil Architects CONTACT: \_\_\_\_\_  
ADDRESS: 1801 Rio Grande Blvd PHONE: 842-1113  
CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

SURVEYOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

## TYPE OF SUBMITTAL:

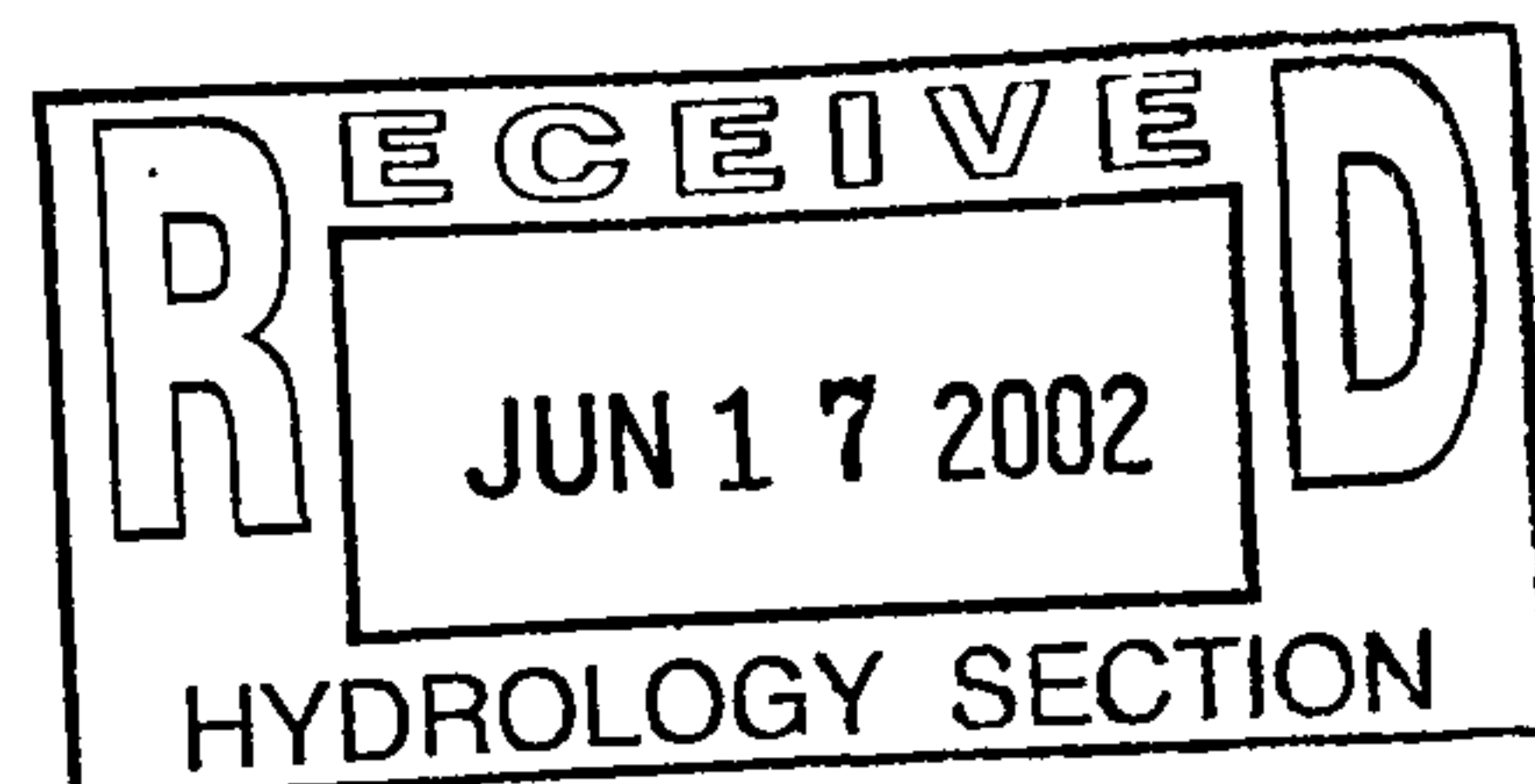
- ☐ DRAINAGE REPORT  
☐ DRAINAGE PLAN  
☒ CONCEPTUAL GRADING & DRAINAGE PLAN  
☐ GRADING PLAN  
☐ EROSION CONTROL PLAN  
☐ ENGINEER'S CERTIFICATION (HYDROLOGY)  
☐ CLOMR/LOMR  
☐ TRAFFIC CIRCULATION LAYOUT (TCL)  
☐ ENGINEERS CERTIFICATION (TCL)  
☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)  
☐ OTHER

## CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA / FINANCIAL 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 APPROVAL (PERM)  
☐ CERTIFICATE OF OCCUPANCY APPROVAL (TEMP)  
☐ GRADING PERMIT APPROVAL  
☐ PAVING PERMIT APPROVAL  
☐ WORK ORDER APPROVAL  
☐ OTHER (SPECIFY)

## WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES  
☒ NO  
☐ COPY PROVIDED



DATE SUBMITTED \_\_\_\_\_ BY: \_\_\_\_\_

Requests for approval of Site Development Plan 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 submittal may be required based on the following:

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



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 1, 2002

Arthur Blessen, PE  
Claudio Vigil Architects  
1801 Rio Grande Blvd. NW  
Albuquerque, NM 87109

**RE: Laundromat / Car Wash Conceptual Grading and Drainage Plan (H11-D65)  
Engineer's Stamp Dated March 6, 2002**

Dear Mr. Blessen:

I have reviewed the referenced conceptual grading and drainage plan received June 17, 2002 and forward the following comments and questions:

- Please provide existing grades and conceptual proposed grades.
- Are there any offsite flows?
- What is the downstream capacity?
- Is there cross lot drainage from Basin A to Basin B?
- Provide finish floor elevation.

If you have any questions please call me at 924-3982

Sincerely,

Carlos A. Montoya, PE  
City Floodplain Administrator