

DRAINAGE INFORMATION SHEET

PROJECT TITLE AutoZone

ZONE ATLAS/DRWG. FILE # L-14/D17

DRB#: _____

EPC # _____ WORK ORDER # _____

LEGAL DESCRIPTION: Tract B-1 of El Cambio Plaza

CITY ADDRESS: 507 Bridge Blvd. SW

ENGINEERING FIRM: ~~BPLW~~ Guy Jackson & Associates, LLC

CONTACT: Guy Jackson

ADDRESS: ~~6200 Uptown Blvd., Suite 220~~
10522 Florence Ave. NE 87122

PHONE: ~~880-9670~~
235-1424

OWNER: AutoZone, Inc. CONTACT: Mitch Bramlitt

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 _____

- ☐ 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
- ☒ ~~TEMP.~~ CERTIFICATE OF OCCUPANCY APPROVAL **FINAL**
- ☐ GRADING PERMIT APPROVALS
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.B. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS

PRE-DESIGN MEETING:

☒ YES

☒ NO

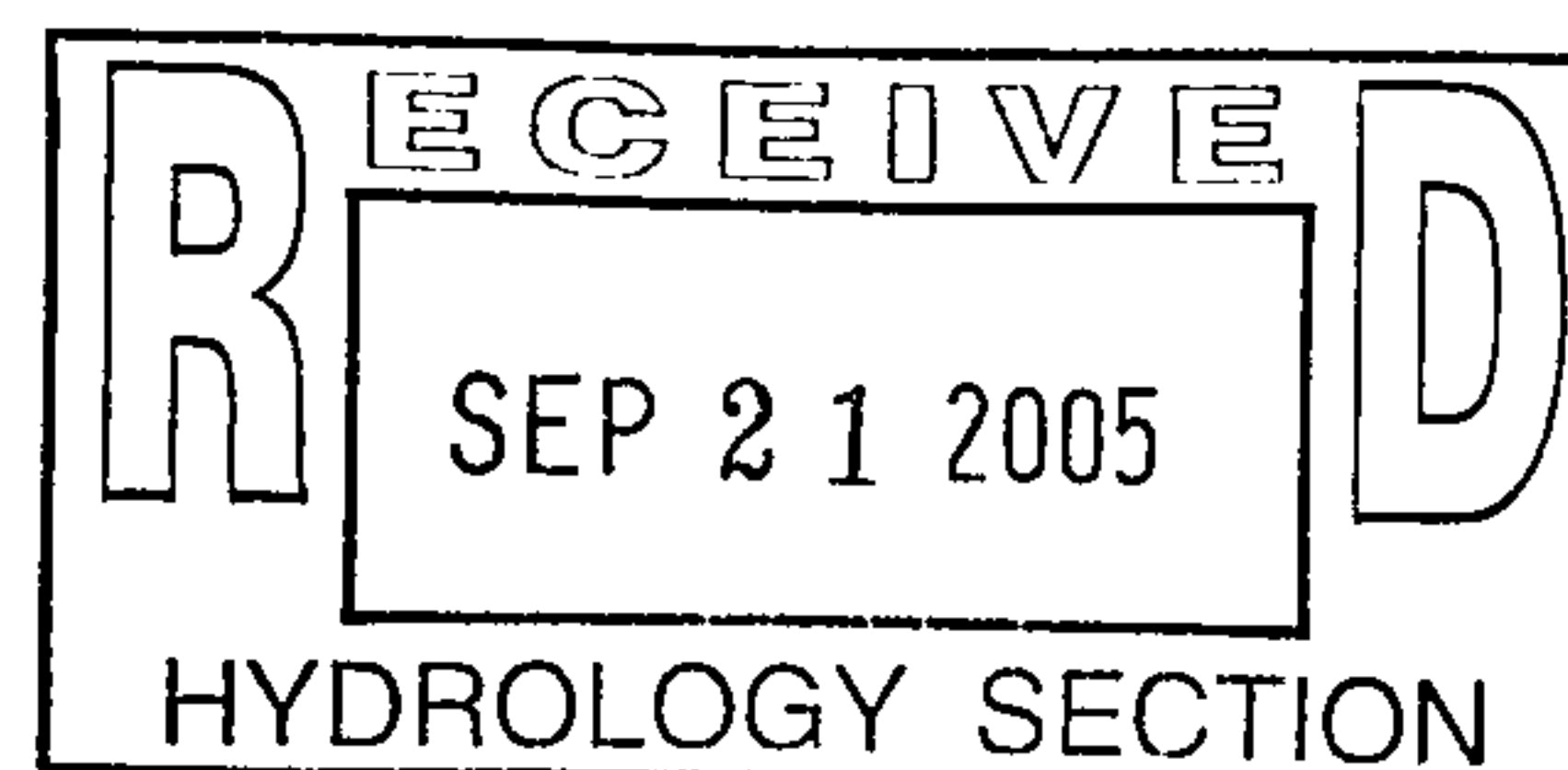
☒ COPY PROVIDED

DATE SUBMITTED: 9-21-05
March 16, 2005

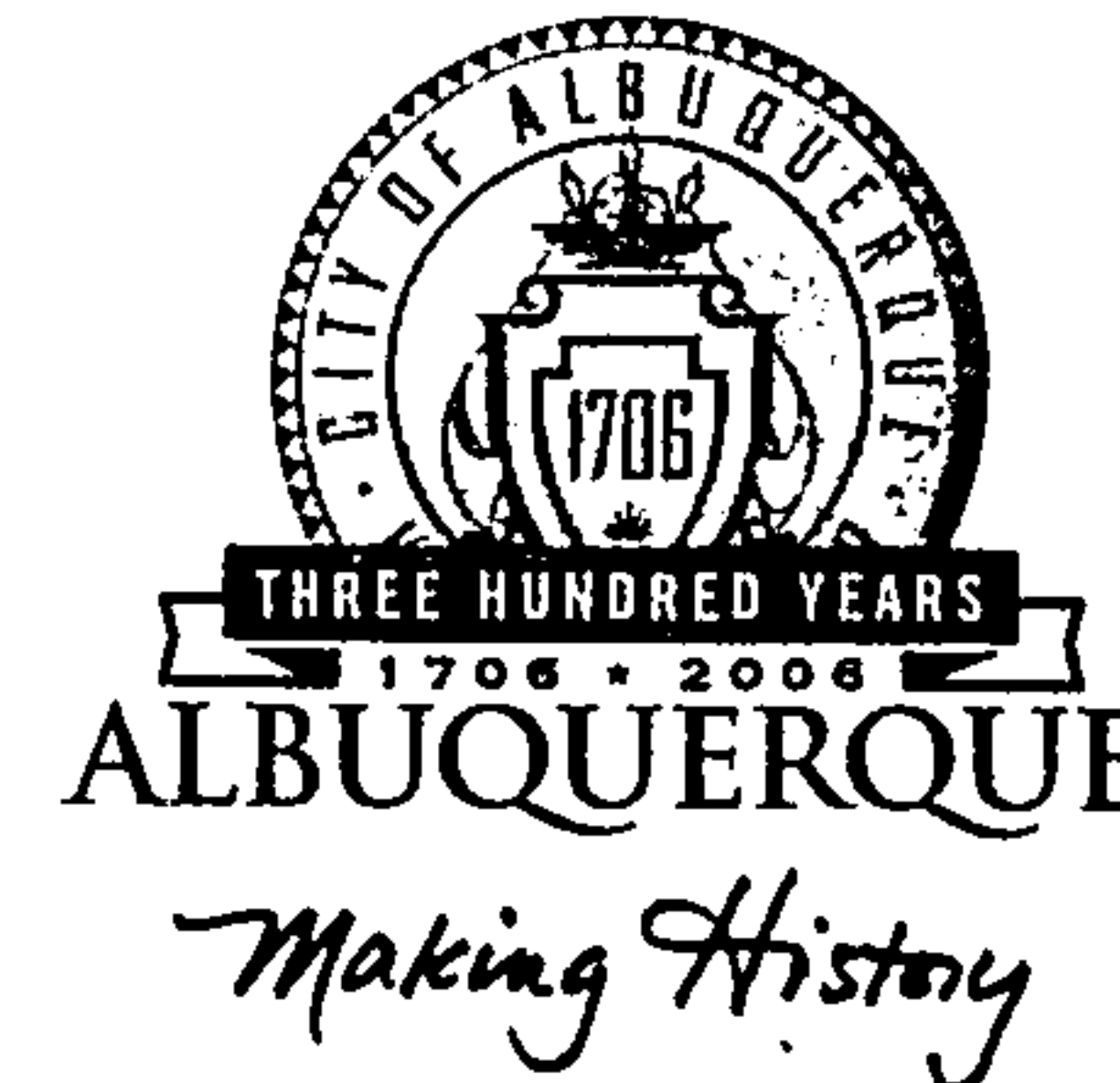
BY: Guy Jackson, PE

88

CONTACT
RANDY MACMICKIN
501-804-8634



CITY OF ALBUQUERQUE



**Planning Department
Transportation Development Services Section**

September 23, 2005

Guy Jackson, P.E.
Guy Jackson & Associates
10522 Florence Ave NE
Albuquerque, NM 87122

Re: Certification Submittal for Final Building Certificate of Occupancy for
AutoZone, [L-14 / D17]
507 Bridge Blvd SW
Engineer's Stamp Dated 09/21/05

P.O. Box 1293

Dear Mr. Jackson:

Albuquerque

The TCL / Letter of Certification submitted on September 21, 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.

New Mexico 87103

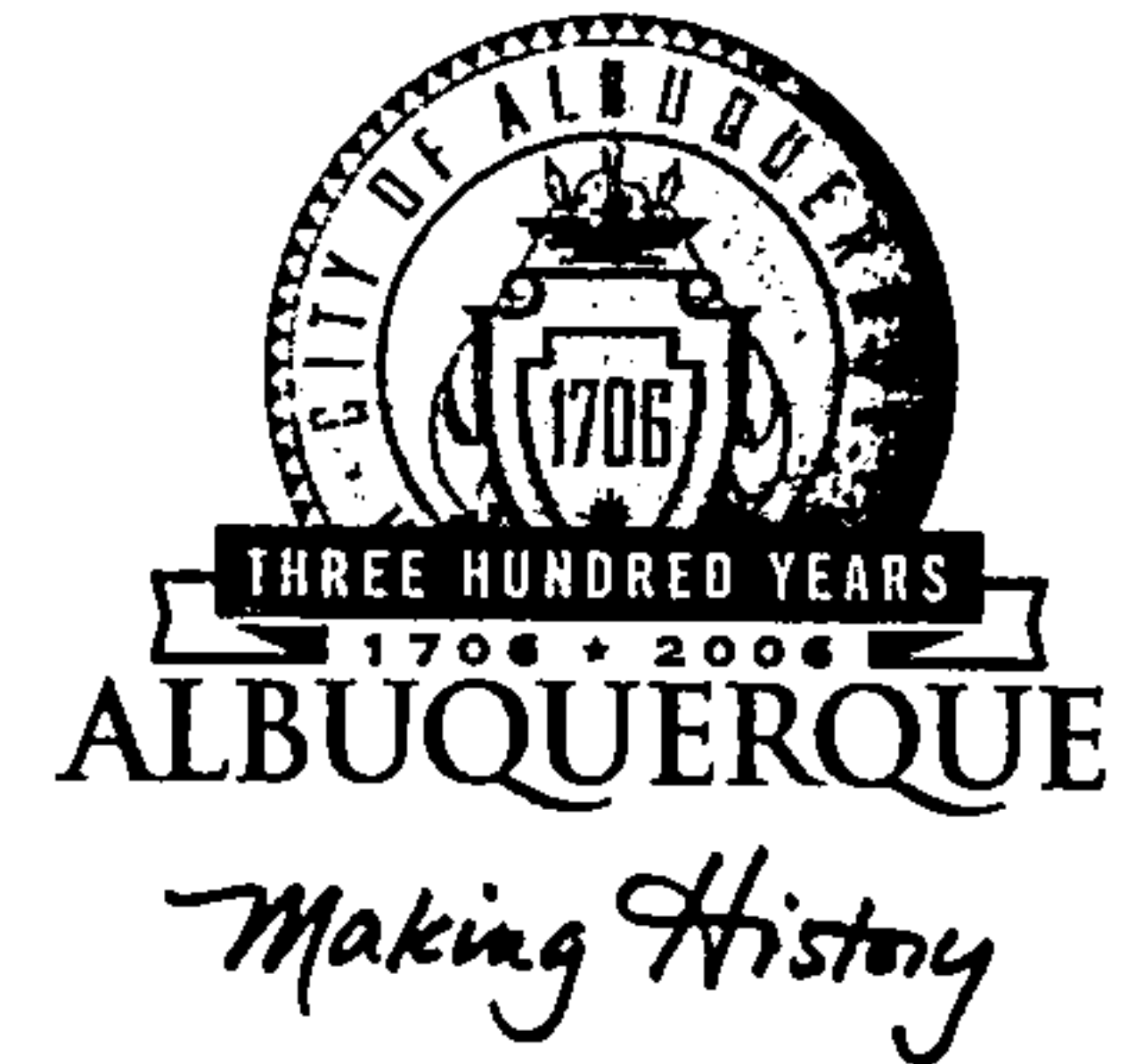
Sincerely,

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

www.cabq.gov

c: Engineer
Hydrology file
CO Clerk

CITY OF ALBUQUERQUE



**Planning Department
Transportation Development Services Section**

March 17, 2005

Guy Jackson, P.E.,
BPLW Architects & Engineers
6200 Uptown Blvd NE, Ste. 400
Albuquerque, NM 87110

Re: Approval of Temporary Certificate of Occupancy (C.O.) for
Auto Zone, [L-14 / D17]
507 Bridge Blvd SW
Engineer's Stamp Dated 03/16/05

Dear Mr. Jackson:

Based on the information provided on your submittal dated March 17, 2005, the above referenced project is approved for a 30-day Temporary C.O.

A Temporary C.O. has been issued allowing the outstanding pavement work (removal and replace of pavement due to drainage problems) 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

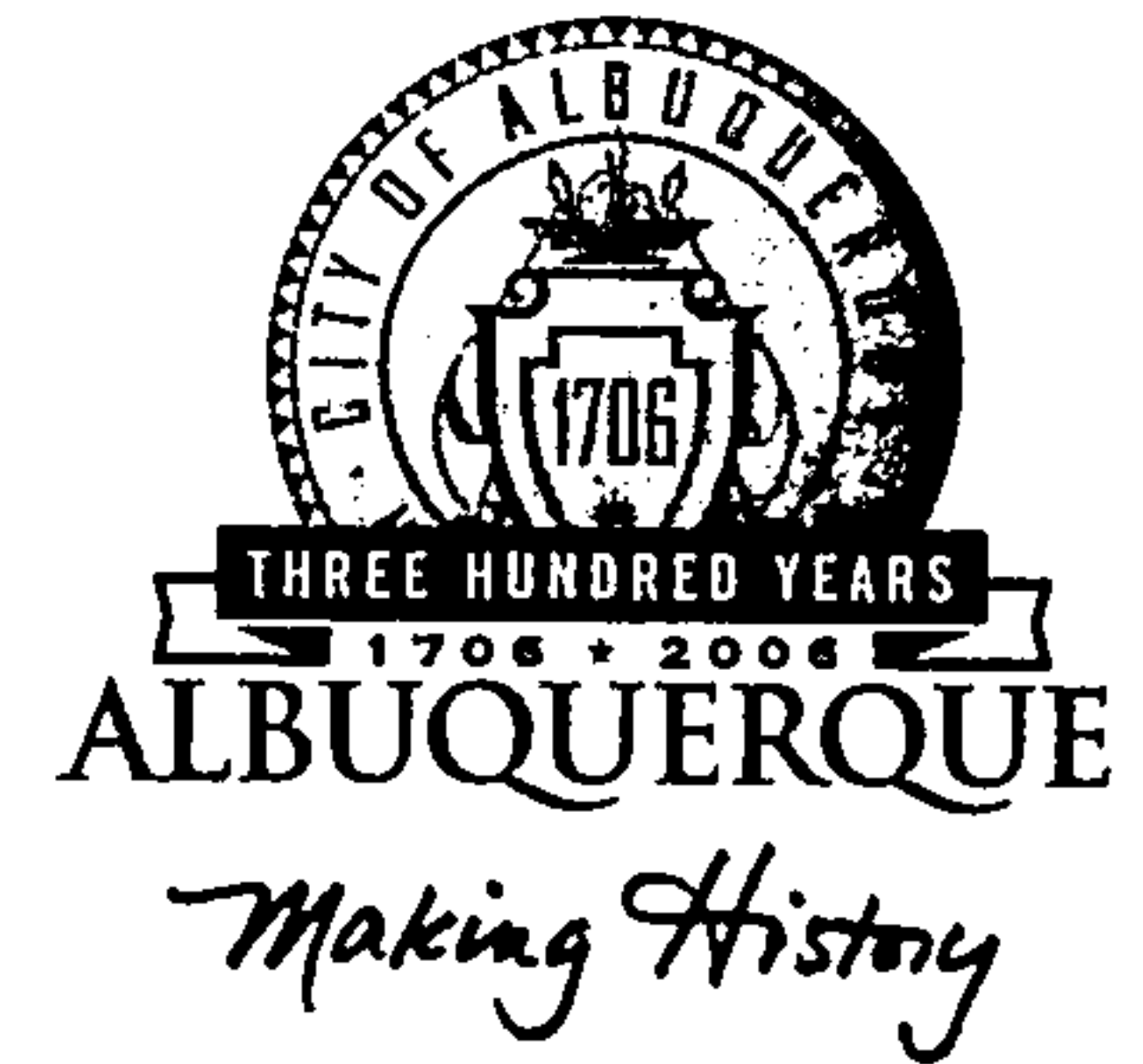
P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

CITY OF ALBUQUERQUE



March 17, 2005

Mr. Guy Jackson, P.E.
BPLW ARCHITECTS & ENGINEERS, INC.
6200 Uptown Blvd. NE
Suite 220
Albuquerque, NM 87110

Re: AUTOZONE
507 Bridge Blvd. SW
Approval of Temporary Certificate of Occupancy (C.O.)
Engineer's Stamp dated 10/07/2004 (L-14/D17)
Certification dated 03/16/2005

P.O. Box 1293

Dear Guy:

Albuquerque

Based upon the information provided in your submittal received 03/17/2005, the above referenced certification is approved for release of 30-day Temporary Certificate of Occupancy by Hydrology.

New Mexico 87103

Upon acceptance of noted exception(s) listed in your Drainage Certification, please resubmit an updated Certification for Permanent C.O.

www.cabq.gov

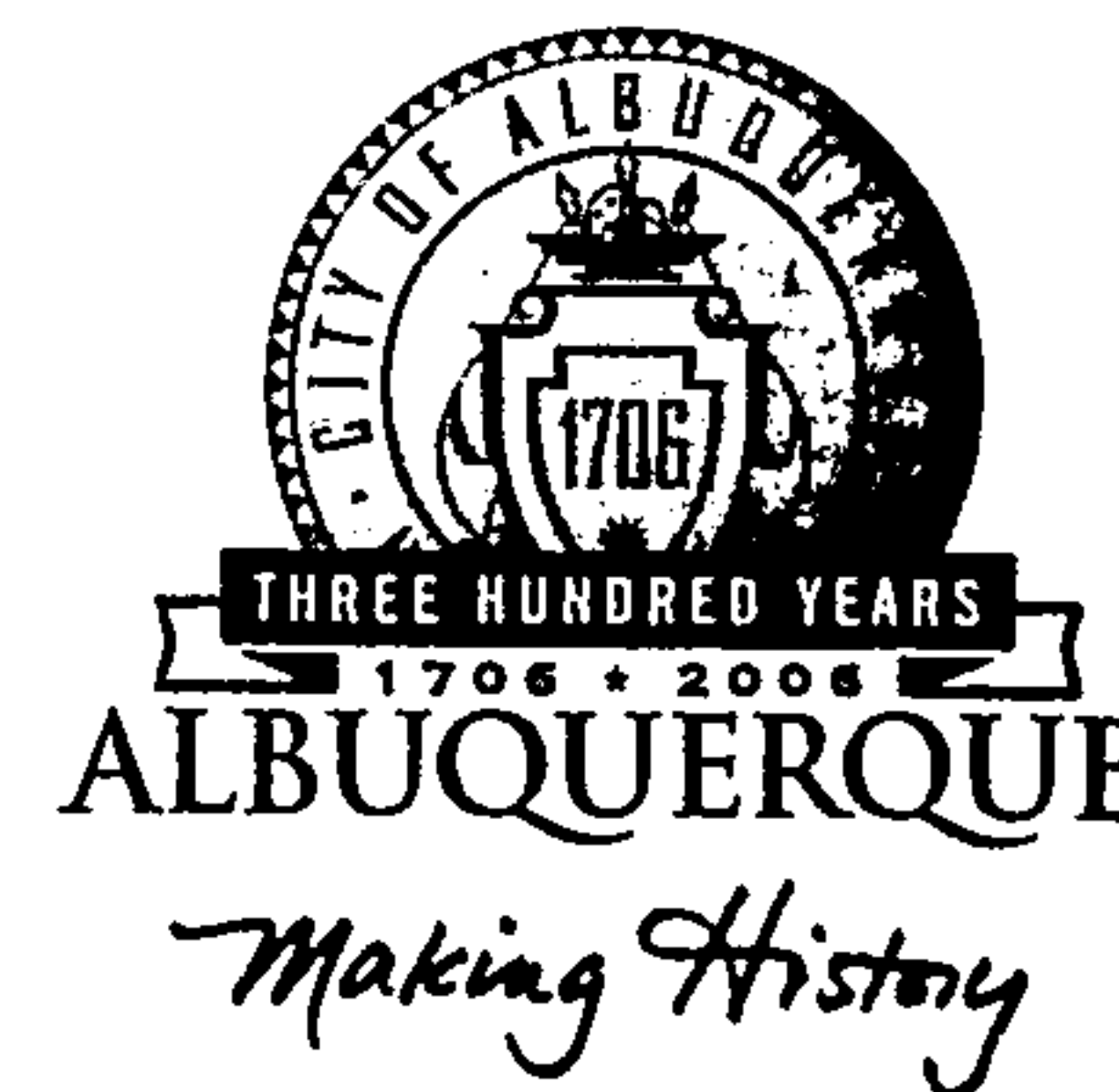
If you have any questions, you can contact me at 924-3982.

Sincerely,

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

C: Phyllis Villanueva
File

CITY OF ALBUQUERQUE



October 21, 2004

Guy Jackson, P.E.
BPLW Architects & Engineers, Inc.
6200 Uptown Blvd. NE Suite 400
Albuquerque, NM 87110

**Re: Autozone at 8th / Bridge, 507 Bridge, Grading and Drainage Plan
Engineer's Stamp dated 10-07-04 (L14-D17)**

Dear Mr. Jackson,

Based upon the information provided in your submittal received 10-08-04, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

P.O. Box 1293

A separate permit (SO#19) is required for construction within City Right of Way. A copy of this approval letter must be on hand when applying for the excavation permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

Albuquerque

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).

New Mexico 87103

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

www.cabq.gov

Sincerely,

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

C: Matt Cline, Arroyo Maintenance
Pam Lujan, Excavation Permits
Charles Caruso, DMD Storm Drainage Design
File

Drainage Summary

Drainage Summary

Project: AUTOZONE 8TH & BRIDGE
 Project Number: A04016
 Date: 09/30/04
 By: JON PENA

Site Location

Precipitation Zone

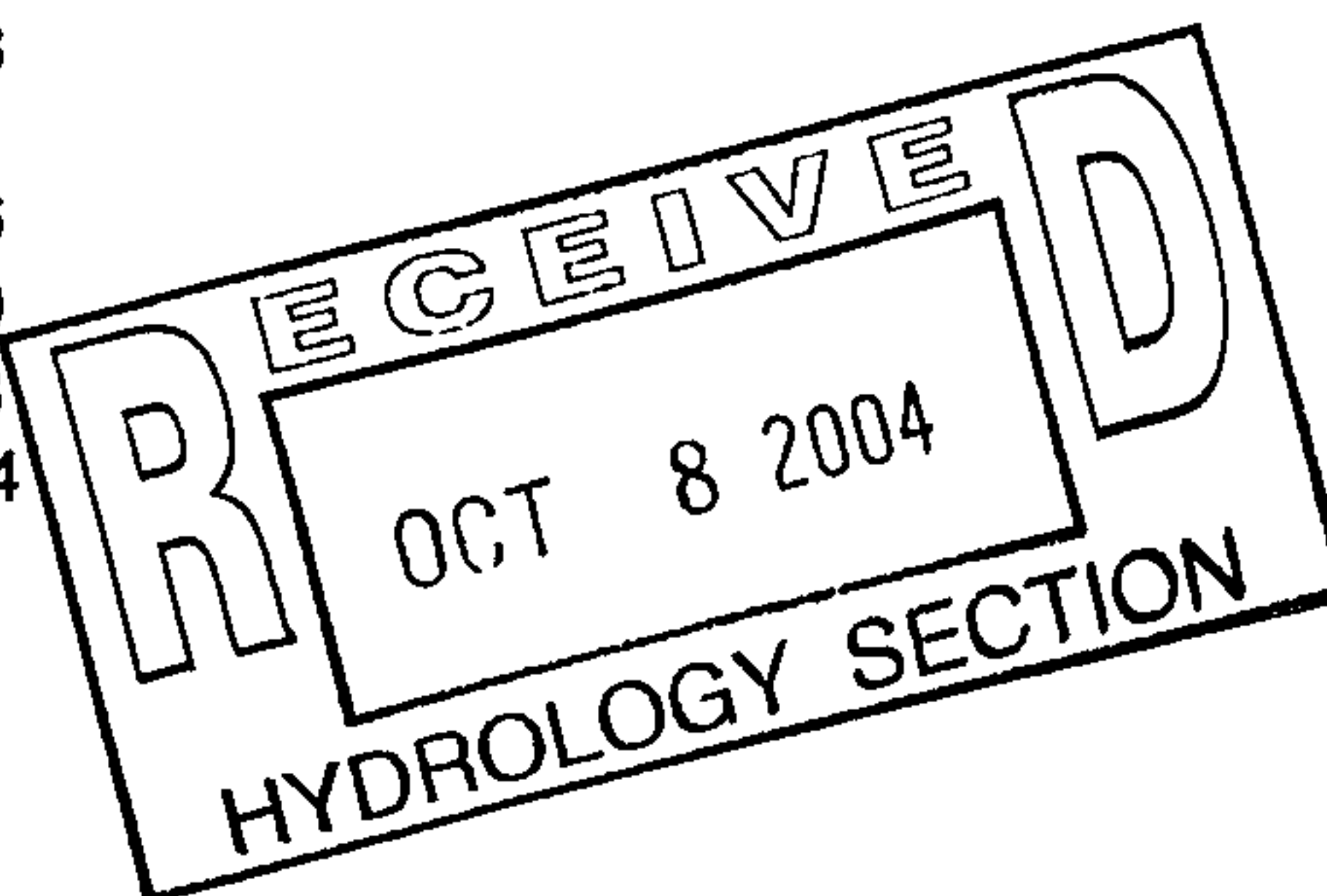
2 Per Table A-1 COA DPM Section 22.2

Existing summary

Basin Name	BASIN 1	BASIN 2	BASIN 3 OFFSITE	BASIN 4 OFFSITE	TOTAL
Soil Treatment (acres)					
Area "A"	0.00	0.00	0.00	0.00	0.00
Area "B"	0.02	0.06	0.00	0.00	0.08
Area "C"	0.00	0.00	0.00	0.00	0.00
Area "D"	1.08	0.41	0.28	0.28	2.05
TOTAL	1.10	0.47	0.28	0.28	2.13
Excess Runoff (acre-feet)					
100yr. 6hr.	0.19	0.08	0.05	0.05	0.27
10yr. 6hr.	0.12	0.05	0.03	0.03	0.17
2yr. 6hr.	0.07	0.03	0.02	0.02	0.10
100yr. 24hr.	0.23	0.09	0.06	0.06	0.32
TOTAL	0.61	0.24	0.16	0.16	0.85
Peak Discharge (cfs)					
100 yr.	5.12	2.06	1.32	1.32	9.82
10yr.	3.41	1.34	0.88	0.88	6.51
2yr.	2.01	0.77	0.52	0.52	3.82
TOTAL	10.54	4.18	2.72	2.72	20.15

Proposed summary

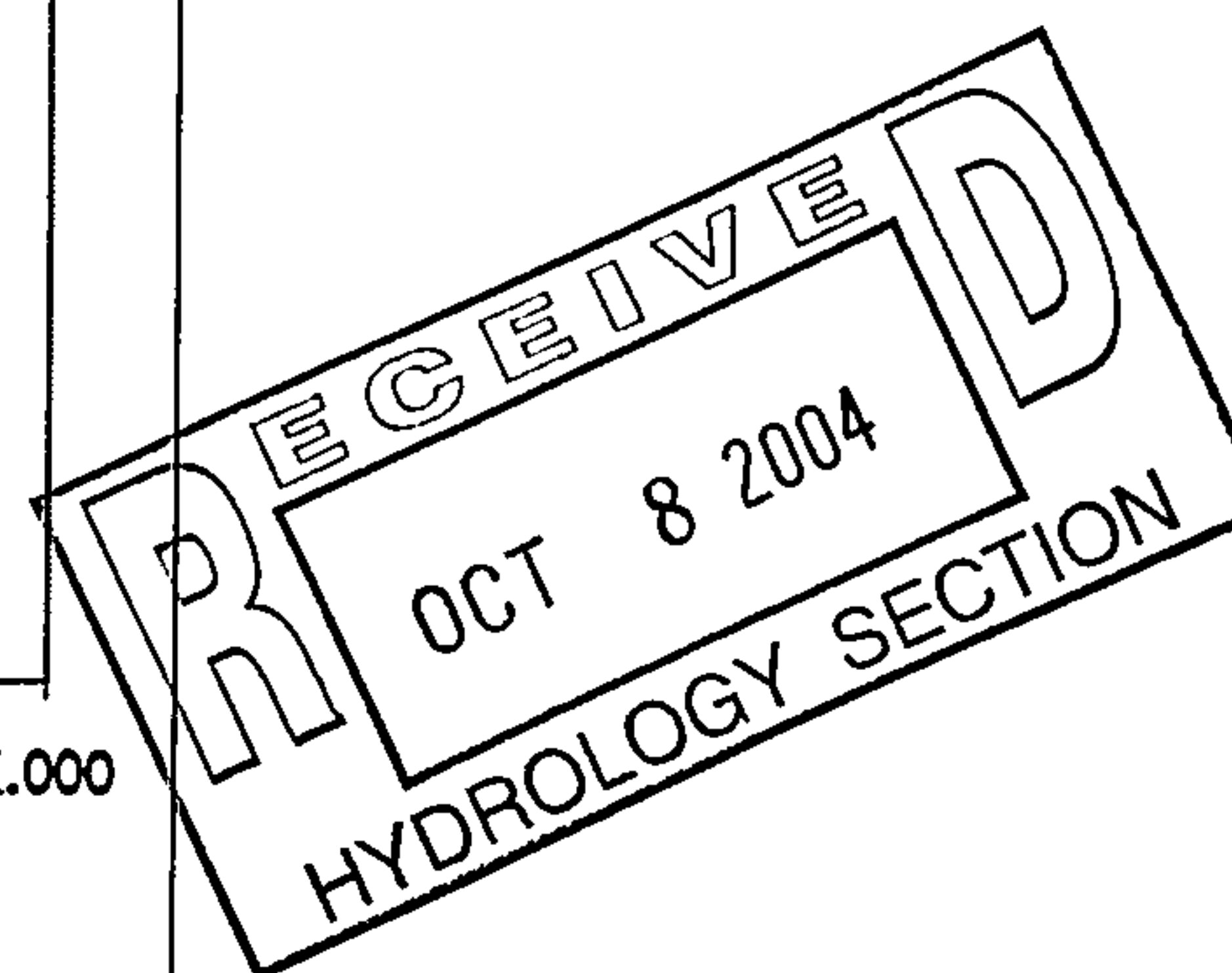
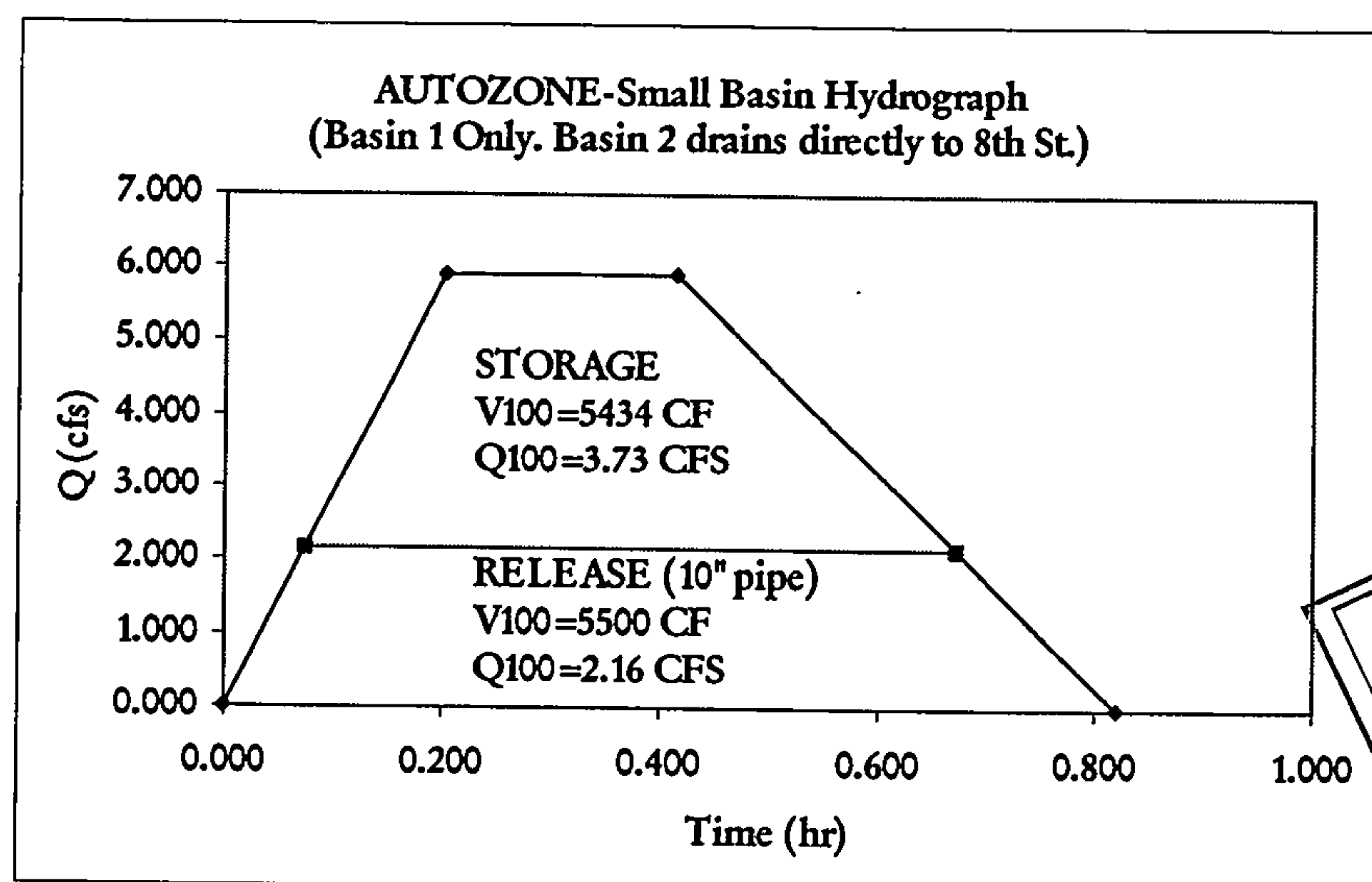
Basin Name	BASIN 1	BASIN 2	BASIN 3 OFFSITE	BASIN 4 OFFSITE	TOTAL
Soil Treatment (acres)					
Area "A"	0.00	0.00	0.00	0.00	0.00
Area "B"	0.21	0.06	0.00	0.00	0.27
Area "C"	0.00	0.00	0.00	0.00	0.00
Area "D"	0.87	0.43	0.28	0.28	1.86
TOTAL	1.08	0.49	0.28	0.28	2.13
Excess Runoff (acre-feet)					
100yr. 6hr.	0.17	0.08	0.05	0.05	0.25
10yr. 6hr.	0.10	0.05	0.03	0.03	0.15
2yr. 6hr.	0.06	0.03	0.02	0.02	0.09
100yr. 24hr.	0.20	0.09	0.06	0.06	0.29
TOTAL	0.52	0.25	0.16	0.16	0.78
Peak Discharge (cfs)					
100 yr.	4.57	2.16	1.32	1.32	9.36
10yr.	2.93	1.41	0.88	0.88	6.10
2yr.	1.64	0.80	0.52	0.52	3.48
TOTAL	9.13	4.37	2.72	2.72	18.94



Project Name :		AUTOZONE-BRIDGE & 8TH	
Project #:		A04016	
Date:		10/6/2004	
Prepared By:		Jon Pena	
Hydrograph Development Spreadsheet			
Inputs	Discharge Rate of Pond	Q_R (cfs)	2.16
	Discharge Rate of Pond	Q_R (cfh)	7762
	Excess Percipitation	E_D (in)	2.12
	100 Year Peak Dishcarge Rate	Q_p (cfs)	5.89
	100 Year Peak Dishcarge Rate	Q_p (cfs)	21204
	Total Discharge Area	A_T (acres)	1.36
	Area of Treatment D	A_D (acres)	1.15
	Time of Concentration	t_c (hrs)	0.20
Outputs	Base Time	t_B (hours)	0.82
	Time to Peak Hours	t_p (hours)	0.20
	Duration of Peak	T_{pk} (hours)	0.21
	Flow Difference	Q_{dif} (cfs)	3.73
	Flow Difference	Q_{dif} (cfh)	13442
	Triangle Base 1 Value	X_1 (hr)	0.13
	Triangle Base 2 Value	X_2 (hr)	0.26
	Storage of Pond	V_p (cf)	5434
	Total Flow Volume	V_T (cf)	10935
	Total Release Volume	V_R (cf)	5500
	Total Pond Storage Volume	V_P (cf)	5434

Unit Hydrograph		
Hydrograph Values	Times (hr)	Flows (cfs)
	0.000	0.000
	0.203	5.89
	0.414	5.89
	0.820	0.000
Flow Release Values	0.074	2.156
	0.671	2.156

Proposed Pond Volume			
Elevations	Area (ft ²)	Volume (ft ³)	Cumm. Volume (ft ³)
4945	3638.00	2866.50	2866.50
4944	2095.00	1764.00	4630.50
4943	1433.00	655.75	5286.25
4942.50	1190.00	0.00	5286.25
Total		5286	5286



tmp#8

Manning Pipe Calculator

Given Input Data:

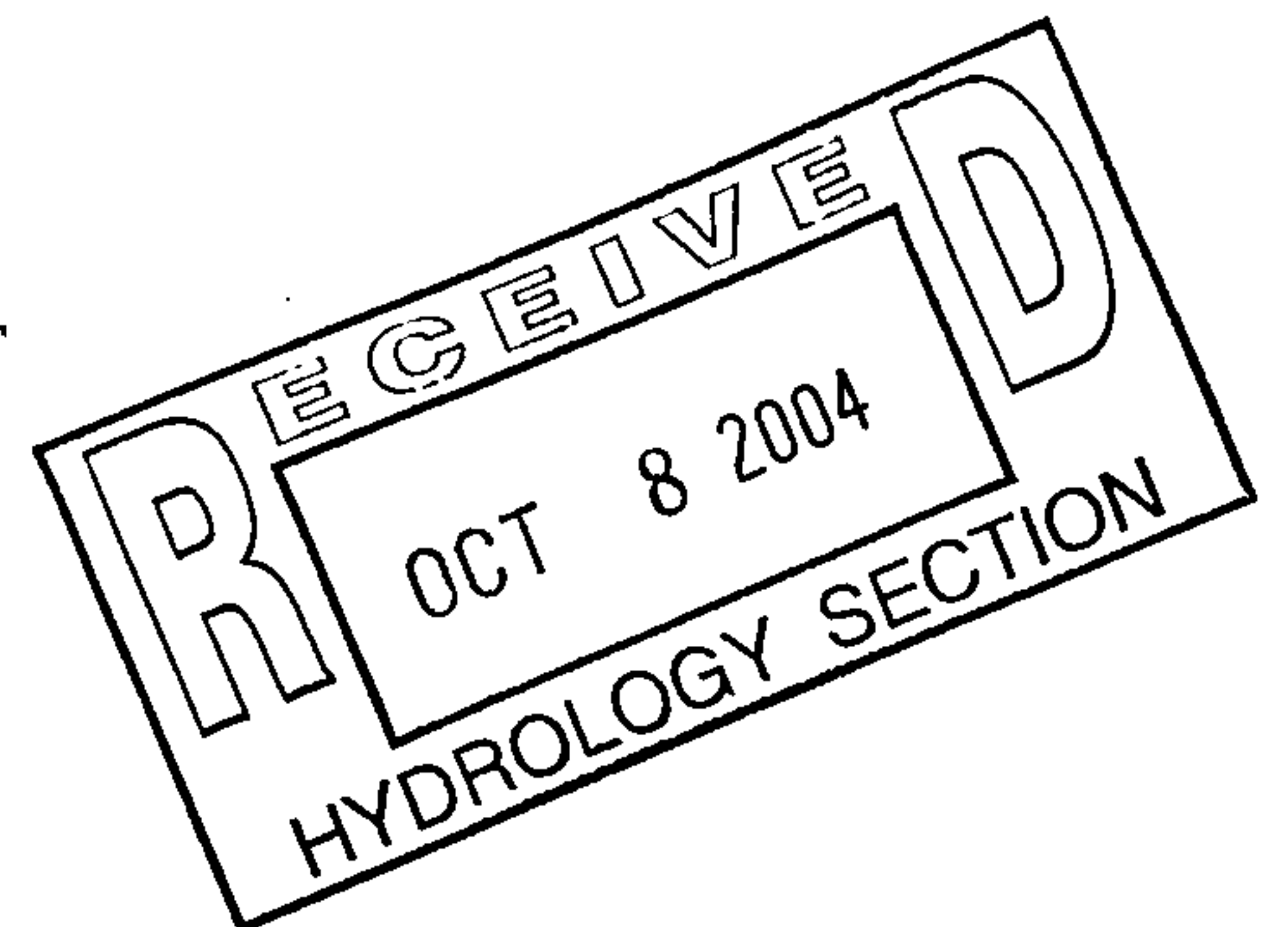
Shape	Circular
Solving for	Flowrate
Diameter	0.8330 ft
Depth	0.6800 ft
Slope	0.0070 ft/ft
Manning's n	0.0110

Computed Results:

Flowrate	2.1562 cfs
Area	0.5450 ft ²
Wetted Area	0.4763 ft ²
Wetted Perimeter	1.8791 ft
Perimeter	2.6169 ft
Velocity	4.5270 fps
Hydraulic Radius	0.2535 ft
Percent Full	81.6327 %
Full flow Flowrate	2.1641 cfs
Full flow velocity	3.9710 fps

Critical Information

Critical depth	0.7103 ft
Critical slope	0.0062 ft/ft
Critical velocity	4.4695 fps
Critical area	0.5172 ft ²
Critical perimeter	1.8960 ft
Critical hydraulic radius	0.2728 ft
Critical top width	0.8330 ft
Specific energy	1.0231 ft
Minimum energy	1.0654 ft
Froude number	1.0779
Flow condition	Supercritical



BPLW

Architects and Engineers

PROJECT AUTOZONE 8TH & BRIDGE
 PROJECT NO. A04016
 DATE 09/30/04
 BY JON PENA

DPM Section 22.2 - Hydrology

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

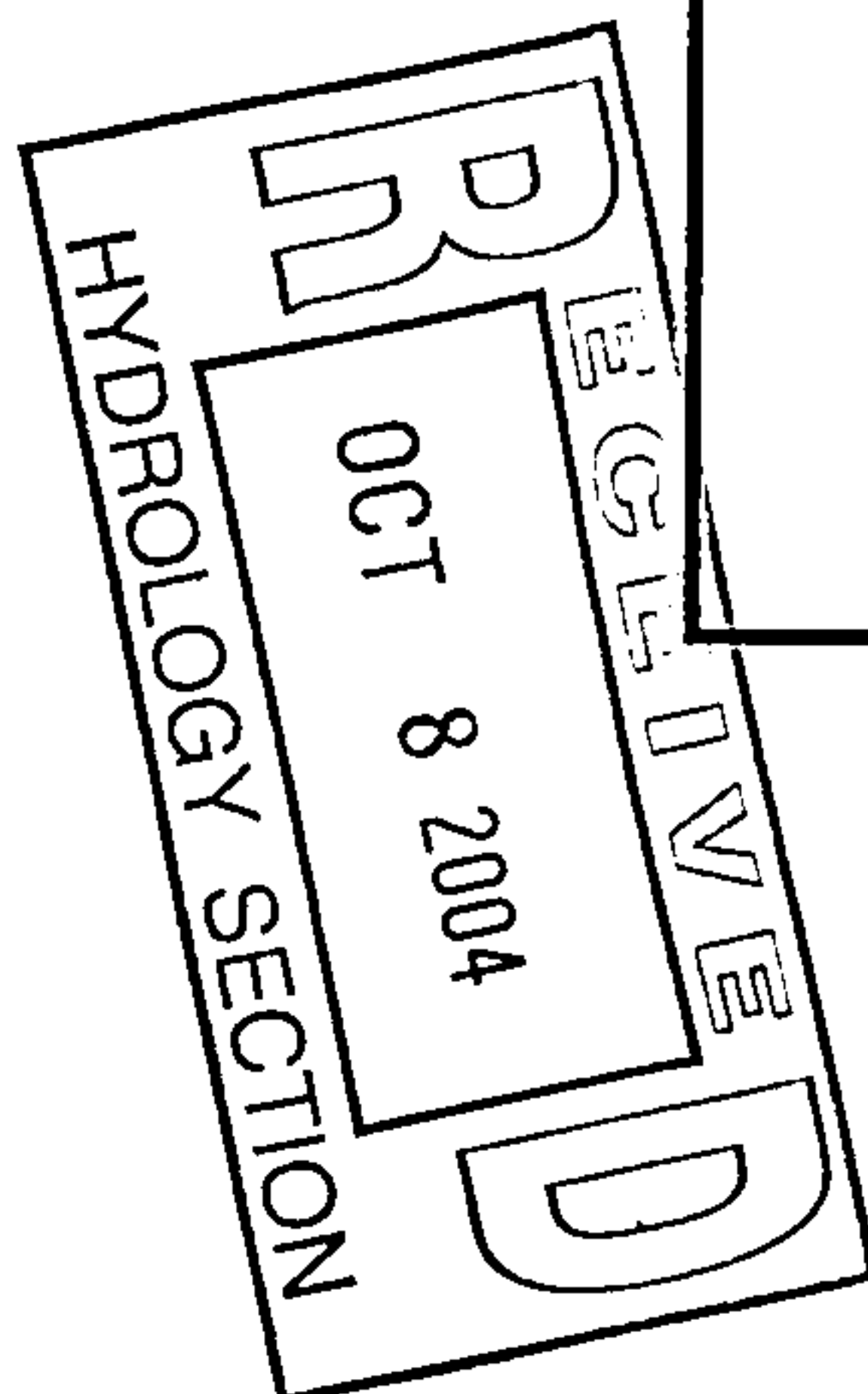
INSTRUCTIONS

- * 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 OFFSITE	BASIN 4 OFFSITE	TOTALS	
Precipitation Zone	2	2	2	2	2	
Land Area	1.08	0.49	0.28	0.28	2.13	acres
Excess Precipitation Volume						
>>> 100-year 6-hour (design)	0.17	0.08	0.05	0.05	0.35	acre-ft.
10-year 6-hour	0.10	0.05	0.03	0.03	0.21	acre-ft.
2-year 6-hour	0.06	0.03	0.02	0.02	0.12	acre-ft.
100-year 24-hour	0.20	0.09	0.06	0.06	0.41	acre-ft.
Peak Discharge Rates (DPM)						
>>> Q100 (design)	4.57	2.16	1.32	1.32	9.36	cfs
Q10	2.93	1.41	0.88	0.88	6.10	cfs
Q2	1.64	0.80	0.52	0.52	3.48	cfs

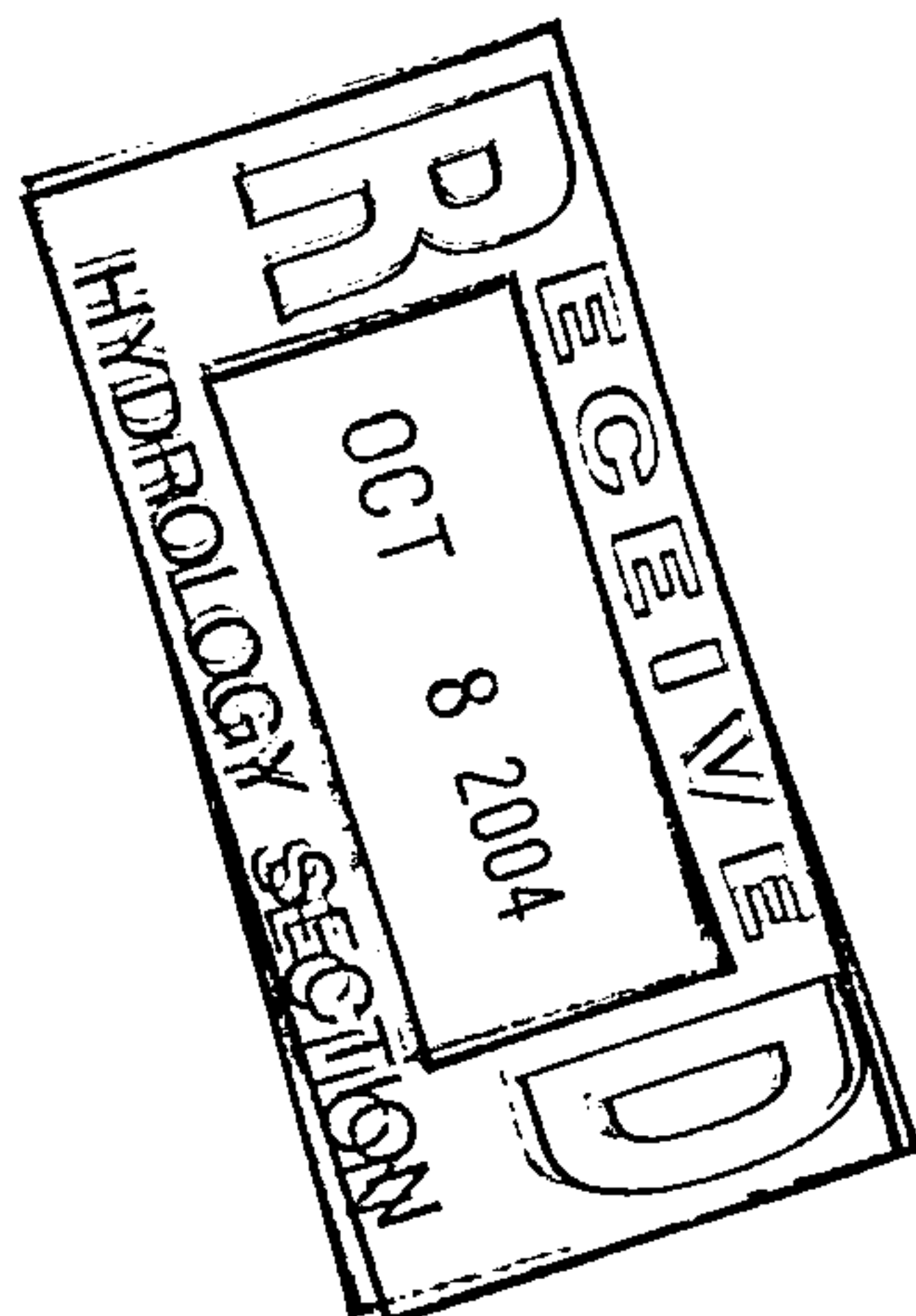
CALCULATIONS FOLLOW



INPUT AND CALCULATIONS

LOCATION	BASIN 1	BASIN 2	BASIN 3 OFFSITE	BASIN 4 OFFSITE	TOTALS	
>A.1 PRECIPITATION ZONE (from Table A-1)	2	2	2	2	2	
>A.2 DEPTHS (from Table A-2)						
100-YEAR STORM (P60)	2.01	2.01	2.01	2.01	2.01	inches
100-YEAR STORM (P360)	2.35	2.35	2.35	2.35	2.35	inches
100-YEAR STORM (P1440)	2.75	2.75	2.75	2.75	2.75	inches
10-YEAR (P360) (Calculated: P360*RPF10)	1.57	1.57	1.57	1.57	1.57	inches
2-YEAR (P360) (Calculated: P360*RPF2)	1.02	1.02	1.02	1.02	1.02	inches
>A.3 LAND TREATMENTS (AI)						
Treatment A	0.00	0.00	0.00	0.00	0.00	acres
Treatment B	0.21	0.06	0.00	0.00	0.27	acres
Treatment C	0.00	0.00	0.00	0.00	0.00	acres
Treatment D	0.87	0.43	0.28	0.28	1.86	acres
Total Area	1.08	0.49	0.28	0.28	2.13	acres
>A.4 ABSTRACTIONS	See A.5	See A.5	See A.5	See A.5	See A.5	

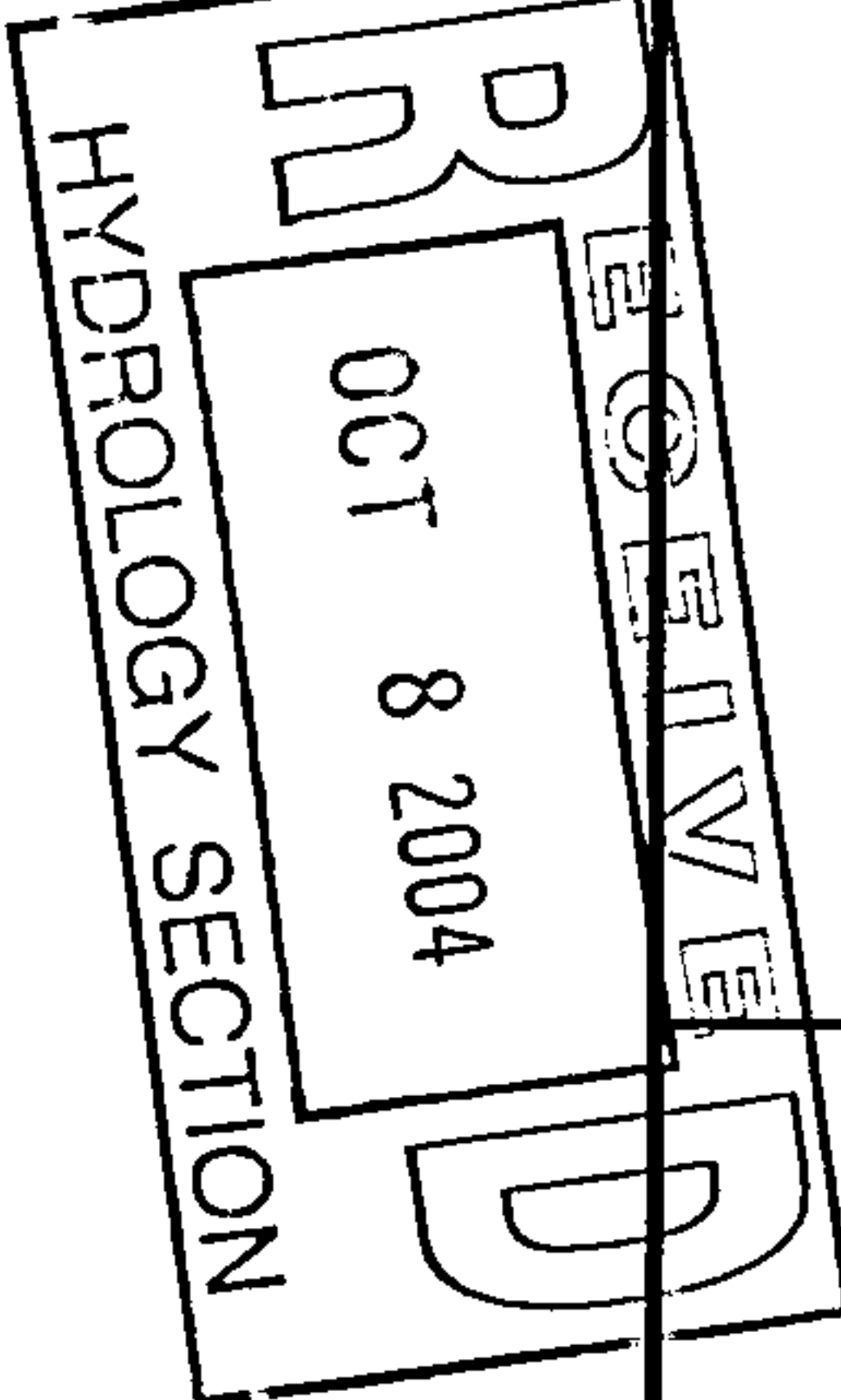
CALCULATIONS FOLLOW



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	0.53	0.53	0.53	0.53	0.53	inches
Treatment B	0.78	0.78	0.78	0.78	0.78	inches
Treatment C	1.13	1.13	1.13	1.13	1.13	inches
Treatment D	2.12	2.12	2.12	2.12	2.12	inches
WEIGHTED E (Sum EI*Ai/A)	1.86	1.96	2.12	2.12	1.95	inches
VOLUME V100:6h (E*A)	0.17	0.08	0.05	0.05	0.35	acre-ft.
	7,289.77	3,478.99	2,154.77	2,154.77	15,078.29	ft^3
10-year 6-hour						
Treatment A	0.13	0.13	0.13	0.13	0.13	inches
Treatment B	0.28	0.28	0.28	0.28	0.28	inches
Treatment C	0.52	0.52	0.52	0.52	0.52	inches
Treatment D	1.34	1.34	1.34	1.34	1.34	inches
WEIGHTED E (Sum EI*Ai/A)	1.13	1.21	1.34	1.34	1.21	inches
VOLUME V10:6h (E*A)	0.10	0.05	0.03	0.03	0.21	acre-ft.
	4,445.30	2,152.59	1,361.98	1,361.98	9,321.84	ft^3
2-year 6-hour						
Treatment A	0.00	0.00	0.00	0.00	0.00	inches
Treatment B	0.02	0.02	0.02	0.02	0.02	inches
Treatment C	0.15	0.15	0.15	0.15	0.15	inches
Treatment D	0.79	0.79	0.79	0.79	0.79	inches
WEIGHTED E (Sum EI*Ai/A)	0.64	0.70	0.79	0.79	0.69	inches
VOLUME V2:6h (E*A)	0.06	0.03	0.02	0.02	0.12	acre-ft.
	2,510.15	1,237.47	802.96	802.96	5,353.52	ft^3
100-year 24-hour						
VOLUME V100:24h (V100-6h+Ad*P1440-P360)/12)	0.20	0.09	0.06	0.06	0.41	acre-ft.
	8,553.01	4,103.35	2,561.33	2,561.33	17,779.01	ft^3

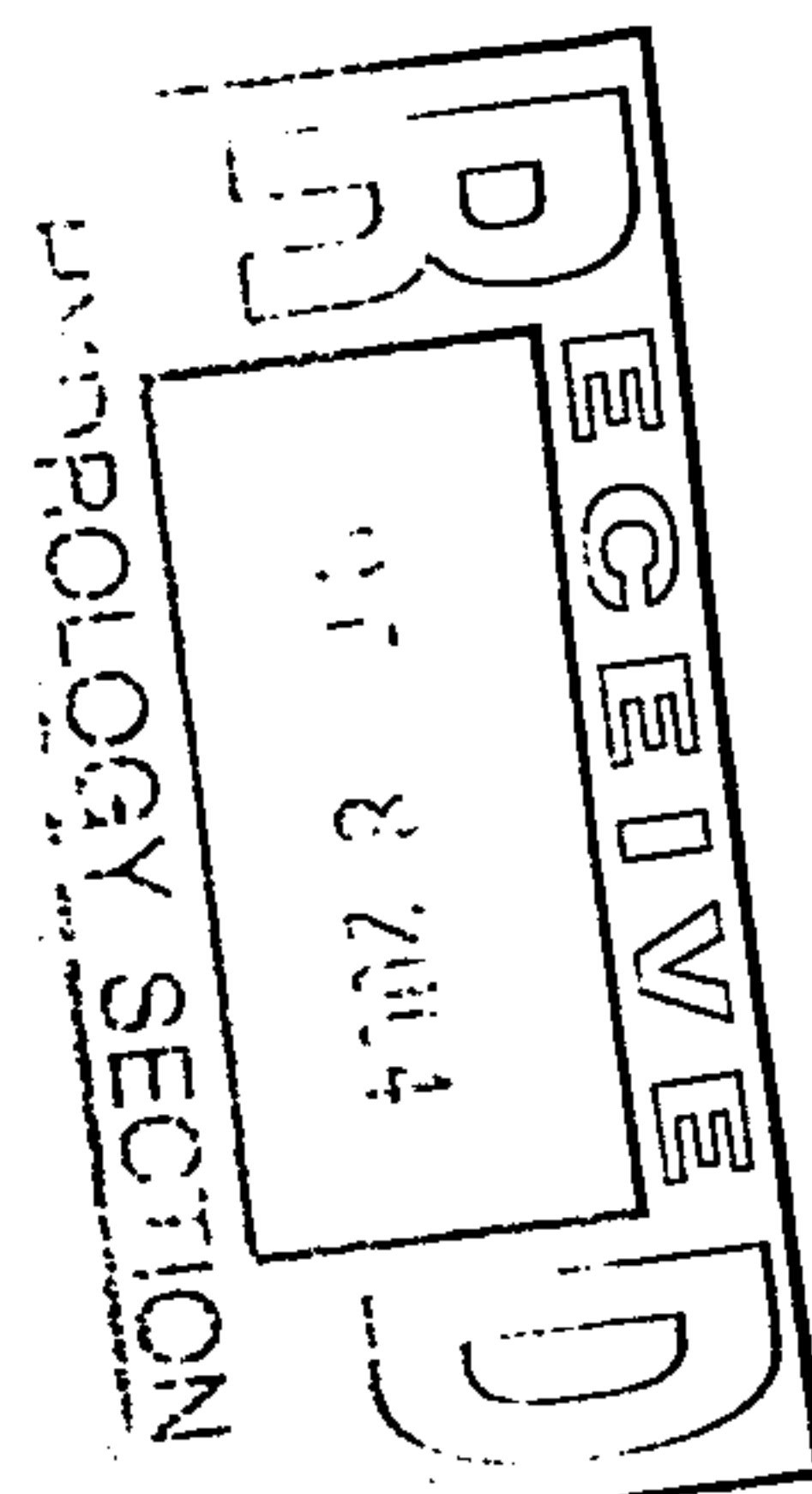
CALCULATIONS FOLLOW



INPUT AND CALCULATIONS (CON'T)

>A.6 PEAK DISCHARGE RATE FOR SMALL WATERSHEDS (QI) from Table A-9						
100-year					TOTALS	
Treatment A	1.56	1.56	1.56	1.56	1.56	cfs/acre
Treatment B	2.28	2.28	2.28	2.28	2.28	cfs/acre
Treatment C	3.14	3.14	3.14	3.14	3.14	cfs/acre
Treatment D	4.70	4.70	4.70	4.70	4.70	cfs/acre
Q100 (Sum QI*AI)	4.57	2.16	1.32	1.32	9.36	cfs
=====						
10-year						
Treatment A	0.38	0.38	0.38	0.38	0.38	cfs/acre
Treatment B	0.95	0.95	0.95	0.95	0.95	cfs/acre
Treatment C	1.71	1.71	1.71	1.71	1.71	cfs/acre
Treatment D	3.14	3.14	3.14	3.14	3.14	cfs/acre
Q10 (Sum QI*AI)	2.93	1.41	0.88	0.88	6.10	cfs
=====						
2-year						
Treatment A	0.00	0.00	0.00	0.00	0.00	cfs/acre
Treatment B	0.08	0.08	0.08	0.08	0.08	cfs/acre
Treatment C	0.60	0.60	0.60	0.60	0.60	cfs/acre
Treatment D	1.86	1.86	1.86	1.86	1.86	cfs/acre
Q2 (Sum QI*AI)	1.64	0.80	0.52	0.52	3.48	cfs
=====						

CALCULATIONS FOLLOW



Existing hyd.

BPLW

Architects and Engineers

PROJECT AUTOZONE 8TH & BRIDGE
PROJECT NO. A04016
DATE 09/30/04
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	BASIN 2	BASIN 3 OFFSITE	BASIN 4 OFFSITE	TOTALS	
Precipitation Zone		2	2	2	2	2	
Land Area		1.10	0.47	0.28	0.28	2.13	acres
Excess Precipitation Volume							
>>> 100-year 6-hour (design)		0.19	0.08	0.05	0.05	0.37	acre-ft.
10-year 6-hour		0.12	0.05	0.03	0.03	0.23	acre-ft.
2-year 6-hour		0.07	0.03	0.02	0.02	0.14	acre-ft.
100-year 24-hour		0.23	0.09	0.06	0.06	0.44	acre-ft.
Peak Discharge Rates (DPM)							
>>> Q100 (design)		5.12	2.06	1.32	1.32	9.82	cfs
Q10		3.41	1.34	0.88	0.88	6.51	cfs
Q2		2.01	0.77	0.52	0.52	3.82	cfs

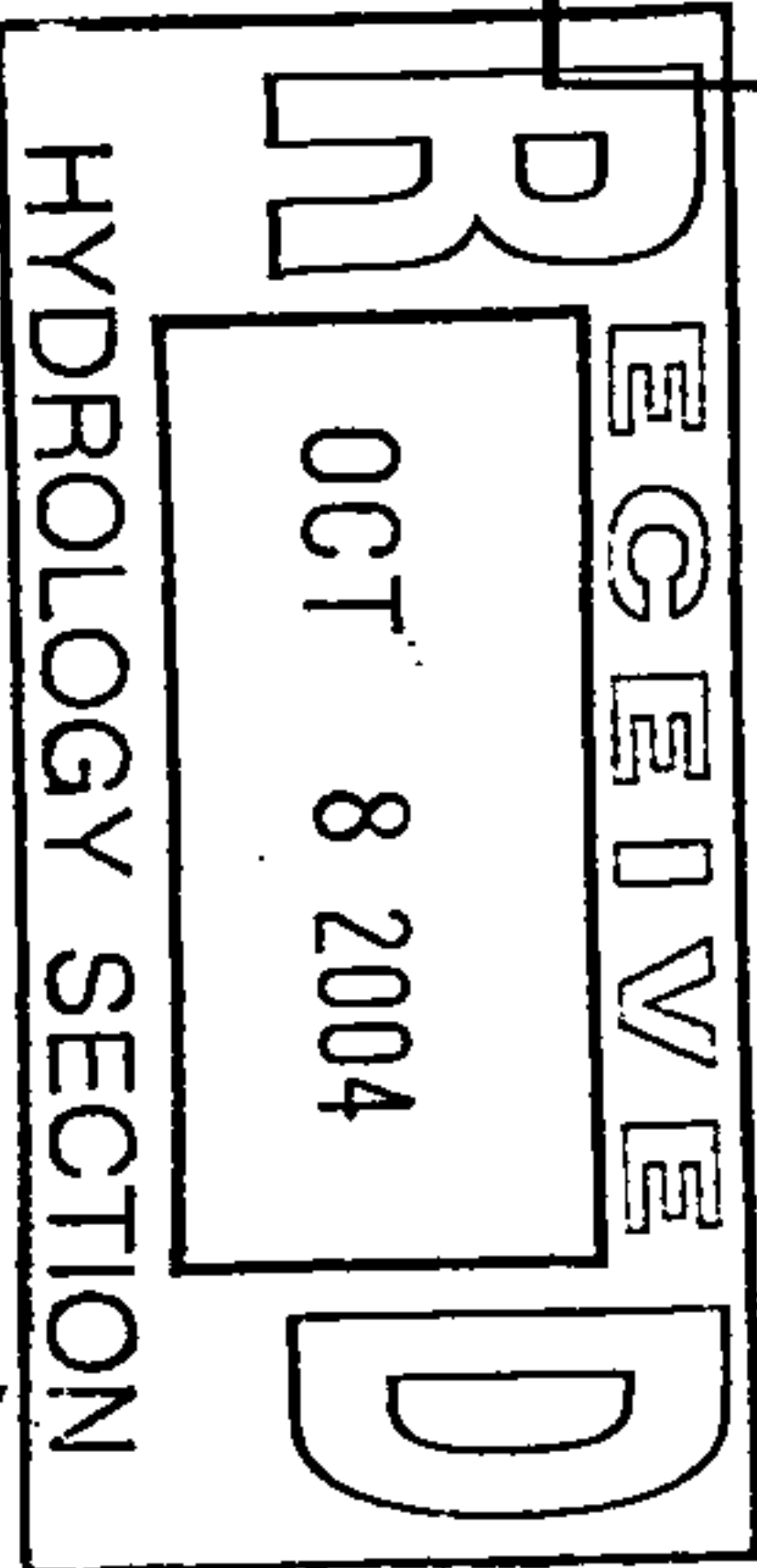
CALCULATIONS FOLLOW

Existing hyd.

INPUT AND CALCULATIONS

LOCATION	BASIN 1	BASIN 2	BASIN 3 OFFSITE	BASIN 4 OFFSITE	TOTALS	
>A.1 PRECIPITATION ZONE (from Table A-1)	2	2	2	2	2	
>A.2 DEPTHS (from Table A-2)						
100-YEAR STORM (P60)	2.01	2.01	2.01	2.01	2.01	inches
100-YEAR STORM (P360)	2.35	2.35	2.35	2.35	2.35	inches
100-YEAR STORM (P1440)	2.75	2.75	2.75	2.75	2.75	inches
10-YEAR (P360) (Calculated: P360*RPF10)	1.57	1.57	1.57	1.57	1.57	inches
2-YEAR (P360) (Calculated: P360*RPF2)	1.02	1.02	1.02	1.02	1.02	inches
>A.3 LAND TREATMENTS (Ai)						
Treatment A	0.00	0.00	0.00	0.00	0.00	acres
Treatment B	0.02	0.06	0.00	0.00	0.08	acres
Treatment C	0.00	0.00	0.00	0.00	0.00	acres
Treatment D	1.08	0.41	0.28	0.28	2.05	acres
Total Area	1.10	0.47	0.28	0.28	2.13	acres
>A.4 ABSTRACTIONS	See A.5	See A.5	See A.5	See A.5	See A.5	

CALCULATIONS FOLLOW



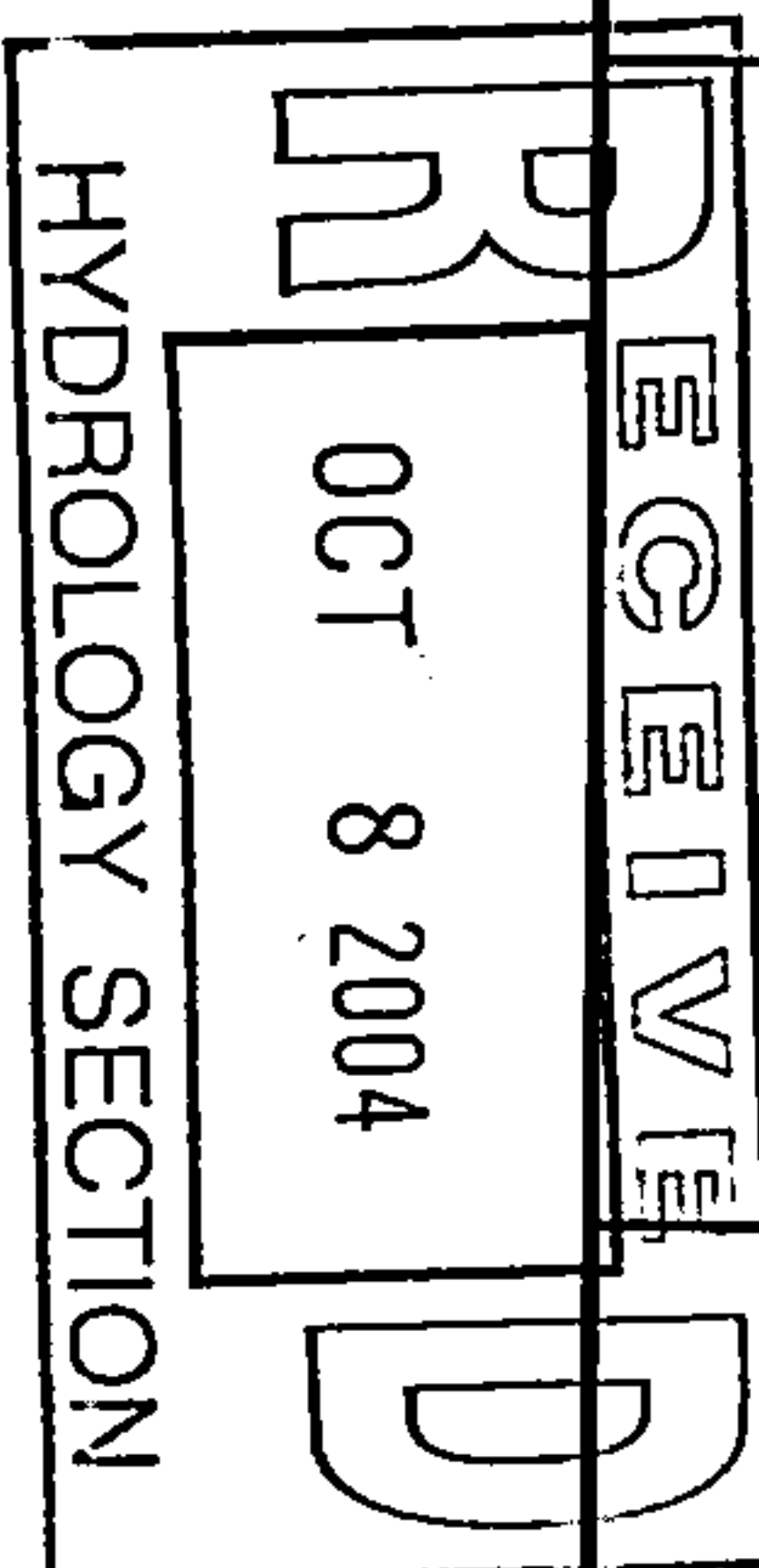
Existing hyd.

INPUT AND CALCULATIONS (CON'T)

>A.5 EXCESS PRECIPITATION 6 HOUR AND 24 HOUR (EI) from Table A-8

100-year 6-hour						TOTALS	
Treatment A	0.53	0.53	0.53	0.53	0.53	0.53	inches
Treatment B	0.78	0.78	0.78	0.78	0.78	0.78	inches
Treatment C	1.13	1.13	1.13	1.13	1.13	1.13	inches
Treatment D	2.12	2.12	2.12	2.12	2.12	2.12	inches
WEIGHTED E (Sum Ei*Ai/A)	2.10	1.95	2.12	2.12	2.07		inches
VOLUME V100:6h (E*A)	0.19	0.08	0.05	0.05	0.37		acre-ft.
	8,367.88	3,325.08	2,154.77	2,154.77	16,002.49		ft^3
=====						=====	
10-year 6-hour							
Treatment A	0.13	0.13	0.13	0.13	0.13	0.13	inches
Treatment B	0.28	0.28	0.28	0.28	0.28	0.28	inches
Treatment C	0.52	0.52	0.52	0.52	0.52	0.52	inches
Treatment D	1.34	1.34	1.34	1.34	1.34	1.34	inches
WEIGHTED E (Sum Ei*Ai/A)	1.32	1.20	1.34	1.34	1.30		inches
VOLUME V10:6h (E*A)	0.12	0.05	0.03	0.03	0.23		acre-ft.
	5,273.66	2,055.31	1,361.98	1,361.98	10,052.92		ft^3
=====						=====	
2-year 6-hour							
Treatment A	0.00	0.00	0.00	0.00	0.00	0.00	inches
Treatment B	0.02	0.02	0.02	0.02	0.02	0.02	inches
Treatment C	0.15	0.15	0.15	0.15	0.15	0.15	inches
Treatment D	0.79	0.79	0.79	0.79	0.79	0.79	inches
WEIGHTED E (Sum Ei*Ai/A)	0.78	0.69	0.79	0.79	0.76		inches
VOLUME V2:6h (E*A)	0.07	0.03	0.02	0.02	0.14		acre-ft.
	3,098.57	1,180.11	802.96	802.96	5,884.59		ft^3
=====						=====	
100-year 24-hour							
VOLUME V100:24h (V100-6h+Ad*P1440-P360)/12)	0.23	0.09	0.06	0.06	0.44		acre-ft.
	9,936.04	3,920.40	2,561.33	2,561.33	18,979.09		ft^3
=====						=====	

CALCULATIONS FOLLOW

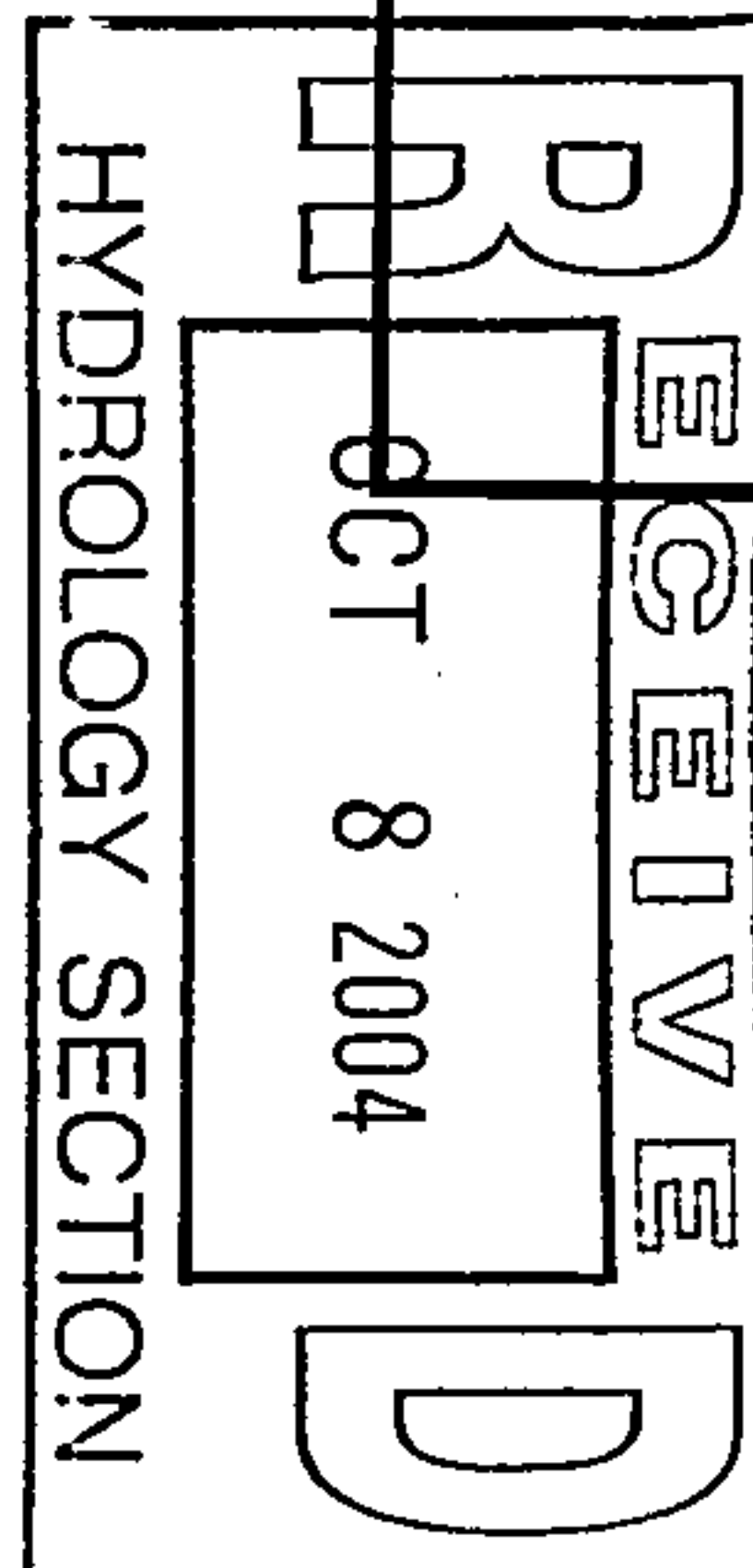


Existing hyd.

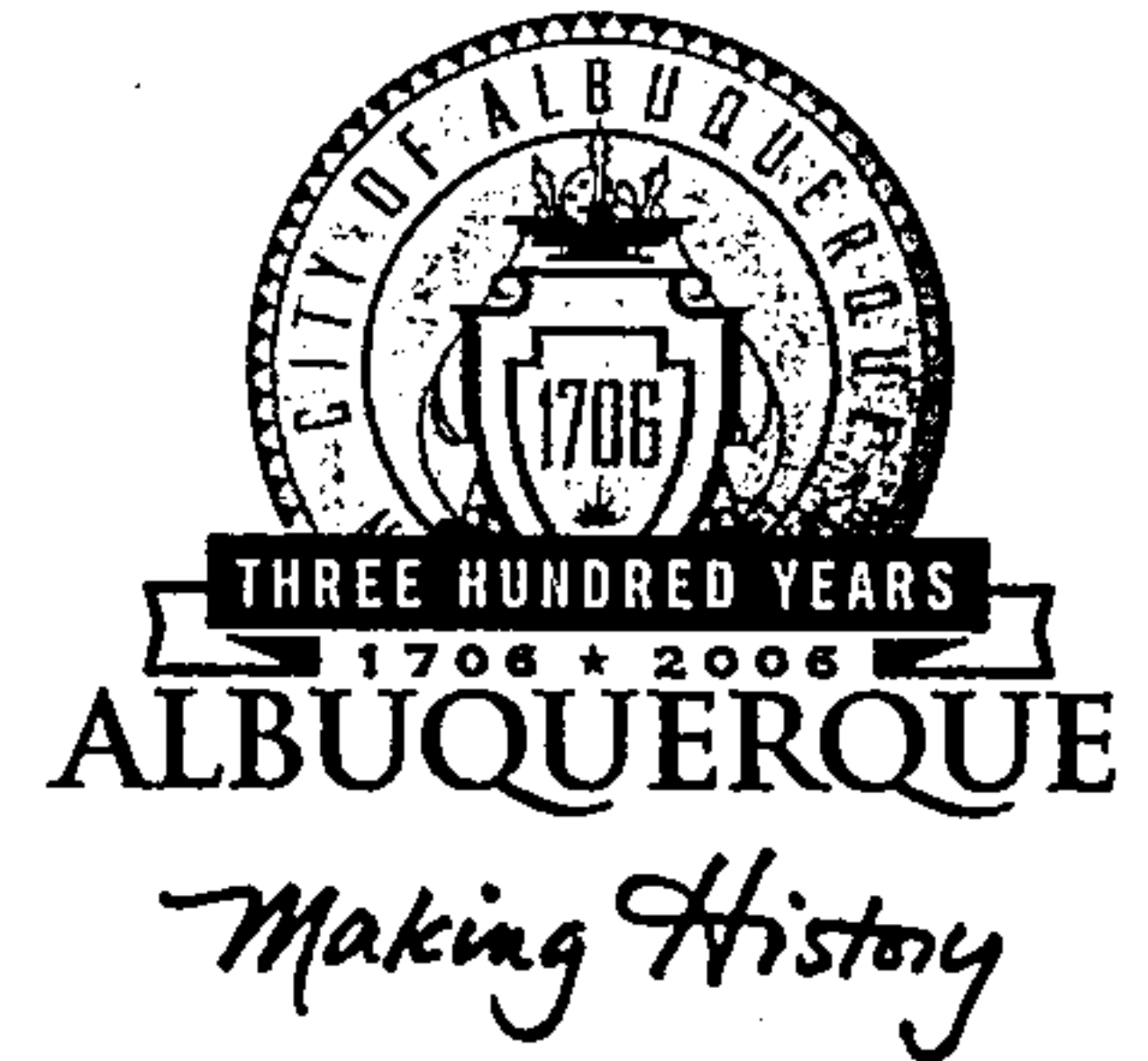
INPUT AND CALCULATIONS (CON'T)

>A.6 PEAK DISCHARGE RATE FOR SMALL WATERSHEDS (Qi)						
from Table A-9						
100-year					TOTALS	
Treatment A	1.56	1.56	1.56	1.56	1.56	cfs/acre
Treatment B	2.28	2.28	2.28	2.28	2.28	cfs/acre
Treatment C	3.14	3.14	3.14	3.14	3.14	cfs/acre
Treatment D	4.70	4.70	4.70	4.70	4.70	cfs/acre
Q100 (Sum Qi*Ai)	5.12	2.06	1.32	1.32	9.82	cfs
=====						
10-year						
Treatment A	0.38	0.38	0.38	0.38	0.38	cfs/acre
Treatment B	0.95	0.95	0.95	0.95	0.95	cfs/acre
Treatment C	1.71	1.71	1.71	1.71	1.71	cfs/acre
Treatment D	3.14	3.14	3.14	3.14	3.14	cfs/acre
Q10 (Sum Qi*Ai)	3.41	1.34	0.88	0.88	6.51	cfs
=====						
2-year						
Treatment A	0.00	0.00	0.00	0.00	0.00	cfs/acre
Treatment B	0.08	0.08	0.08	0.08	0.08	cfs/acre
Treatment C	0.60	0.60	0.60	0.60	0.60	cfs/acre
Treatment D	1.86	1.86	1.86	1.86	1.86	cfs/acre
Q2 (Sum Qi*Ai)	2.01	0.77	0.52	0.52	3.82	cfs
=====						

CALCULATIONS FOLLOW



CITY OF ALBUQUERQUE



October 12, 2004

Guy Jackson, P.E.
BPLW Architects & Engineers, Inc.
6200 Uptown Blvd. NE Suite 400
Albuquerque, NM 87110

Re: Autozone, 8th Street and Bridge Blvd, Traffic Circulation Layout
Engineer's Stamp dated 10-07-04 (L-14/D017)

Dear Mr. Jackson,

The TCL submittal received 10-08-04 is approved for Building Permit. The plan is stamped and signed as approved. A copy of this plan will be needed for each of the building permit plans. Please keep the original to be used for certification of the site for final C.O. for Transportation.

If a temporary CO is needed, a copy of the original TCL that was stamped as approved by the City will be needed. This plan must include a statement that identifies the outstanding items that need to be constructed or the items that have not been built in "substantial compliance," as well as the signed and dated stamp of a NM registered architect or engineer. Submit this TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

When the site is completed and a final C.O. is requested, use the original City stamped approved TCL for certification. A NM registered architect or engineer must stamp, sign, and date the certification TCL along with indicating that the development was built in "substantial compliance" with the TCL. Submit this certification TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

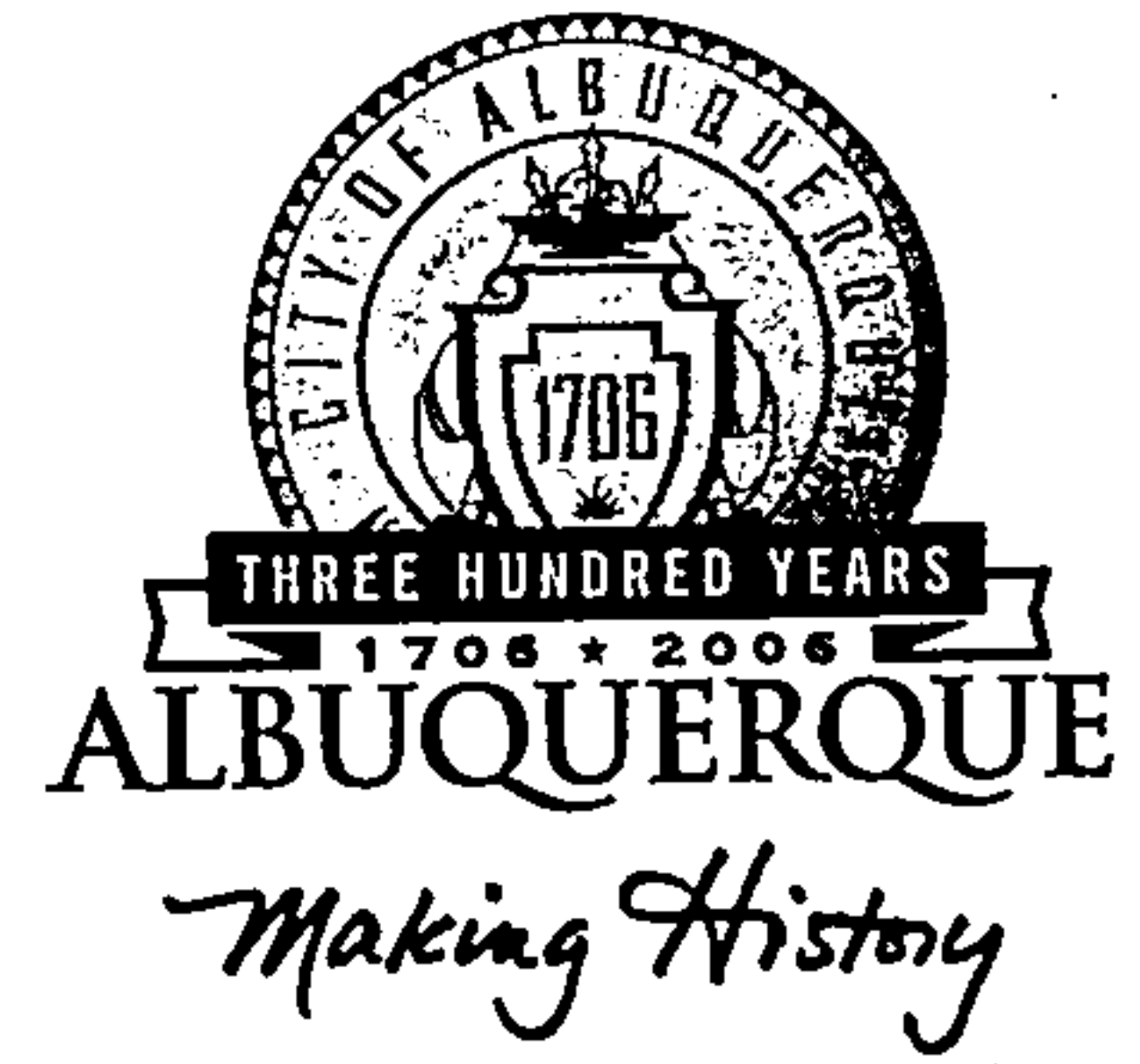
Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. To confirm that a final C.O. has been issued, call Building Safety at 924-3306.

Sincerely,

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

cc: file

CITY OF ALBUQUERQUE



September 15, 2004

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

Re: Autozone on Bridge Grading and Drainage Plan
Engineer's Stamp dated 8-5-04 (L14/D17)

Dear Mr. Jackson,

Based upon the information provided in your submittal dated 8-10-04, the above referenced plan cannot be approved for Building Permit and SO19 Permit until the following comments are addressed.

- What is the water surface elevation of the proposed parking lot pond?
- Is there any offsite runoff entering your site from the SW?
- Please show the location of the existing 10" SD mentioned in your write-up on your plan.

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

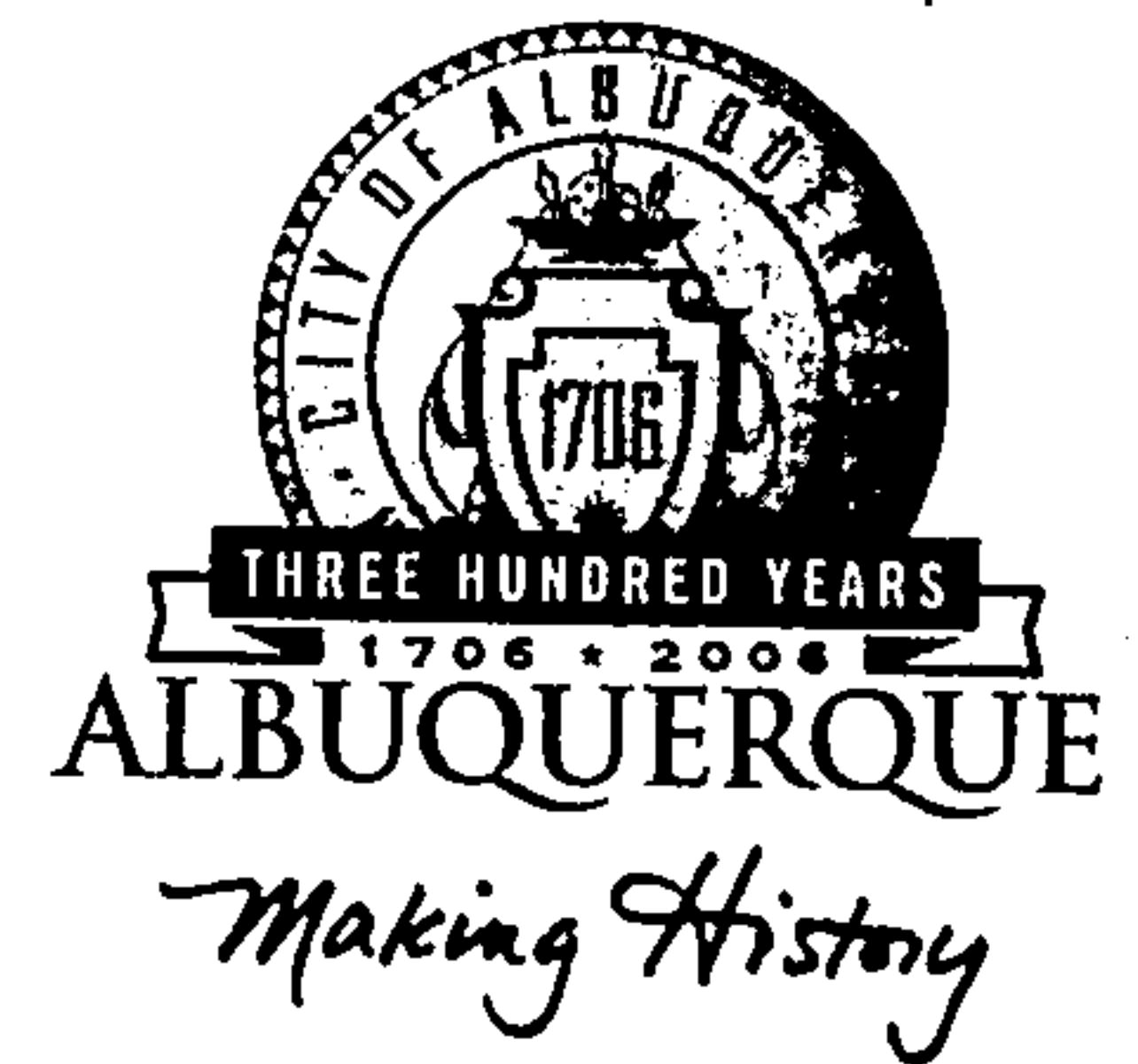
Sincerely,

Bradley L. Bingham

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

C: file

CITY OF ALBUQUERQUE



August 16, 2004

Guy Jackson, P.E.
BPLW Architects & Engineers, Inc.
6200 Uptown Blvd. NE Suite 400
Albuquerque, NM 87110

**Re: Autozone, 8th Street and Bridge Blvd, Traffic Circulation Layout
Engineer's Stamp dated 8-05-04 (L14-D17)**

Dear Mr. Jackson,

Based upon the information provided in your submittal received 8-10-04, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

1. Please include 2 copies of the traffic circulation layout at the next submittal.
- ✓ 2. The plan refers to the proposed Autozone as an "addition." However, previous discussions have indicated this site is currently unused. Please clarify this.
- ✓ 3. Please draft a separate traffic circulation layout, including only the information required. For example, infrastructure references are not needed in this submittal, and should be removed.
- ✓ 4. For passenger vehicles, the minimum end island radius is 15 feet.
- ✓ 5. Please list all aisle widths.
- ✓ 6. What is the width of the keyway?

If you have any questions, you can contact me at 924-3991.

Sincerely,

Wilfred A. Gallegos, P.E.
Traffic Engineer, Planning Dept.
Development and Building Services

C: file



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 24, 2003

David Thompson, P.E.
Thompson Engineering Consultants, Inc.
4800 Juan Tabo NE Suite C
Albuquerque, NM 87111

**Re: McDonald's Restaurant at 4th Street and Bridge, Certificate of Occupancy
Engineer's Stamp dated 4-23-03 (L14/D17)
Certification dated 11-21-03**

Dear Mr. Thompson,

Based upon the information provided in your submittal received 11-21-03, 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 924-3981.

Sincerely,

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

C: Phyllis Villanueva
file



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

***Planning Department
Transportation Development Services Section***

November 20, 2003

Fred Robinson, Registered Architect
400 Gold St SW, Ste 880
Albuquerque, NM 87102

Re: Certification Submittal for Final Building Certificate of Occupancy for
McDonald's (4th & Bridge), [L-14 / D17]
1523 Fourth St SW
Architect's Stamp Dated 05/19/03

Dear Mr. Robinson:

The TCL / Letter of Certification submitted on November 20, 2003 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



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 19, 2003

Fred Robinson
Kells+Craig Architects
400 Gold Street SW
Albuquerque, New Mexico 87102

**RE: Traffic Circulation Layout for McDonald's Restaurant @ 4th and Bridge
(L14-D17) Dated May 19, 2003**

Dear Mr. Robinson:

The above referenced TCL received May 19, 2003 is approved for Building Permit. Upon completion of the project please certify the project per the DPM for Certificate of Occupancy release.

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

Sincerely,

Carlos A. Montoya
City Floodplain Administrator

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

L-14/D17

PROJECT TITLE: McDonald's 4th BRIDGE ZONE MAP/DRG. FILE #: L-14-E
 DRB #: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: LOT C EL CAMBIO PLAZA ADDITION
 CITY ADDRESS: 1523 FOURTH STREET SW

ENGINEERING FIRM: _____
 ADDRESS: _____
 CITY, STATE: _____

CONTACT: _____
 PHONE: _____
 ZIP CODE: _____

OWNER: McDonald's Corp.
 ADDRESS: _____
 CITY, STATE: _____

CONTACT: 505-424-7778
 PHONE: MIKE MOTTA
 ZIP CODE: _____

ARCHITECT: KELLY + CRAIG ARCHITECTS
 ADDRESS: 400 GOLD ST. SW
 CITY, STATE: ALBUQUERQUE, NM

CONTACT: FRED ROBINSON
 PHONE: 710-7937
 ZIP CODE: 87102
FAX 842-5804

SURVEYOR: _____
 ADDRESS: _____
 CITY, STATE: _____

CONTACT: _____
 PHONE: _____
 ZIP CODE: _____

CONTRACTOR: _____
 ADDRESS: _____
 CITY, STATE: _____

CONTACT: _____
 PHONE: _____
 ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

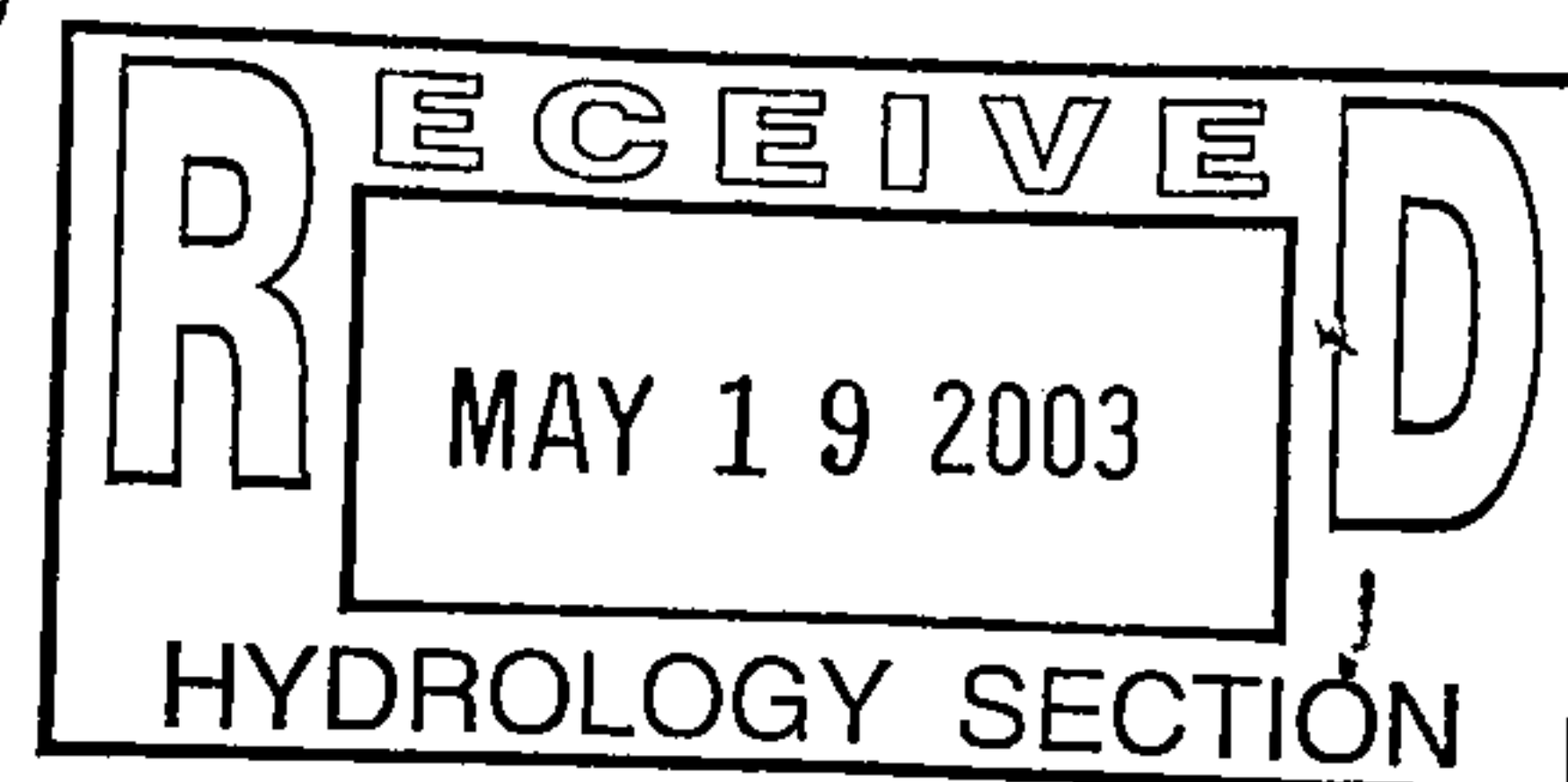
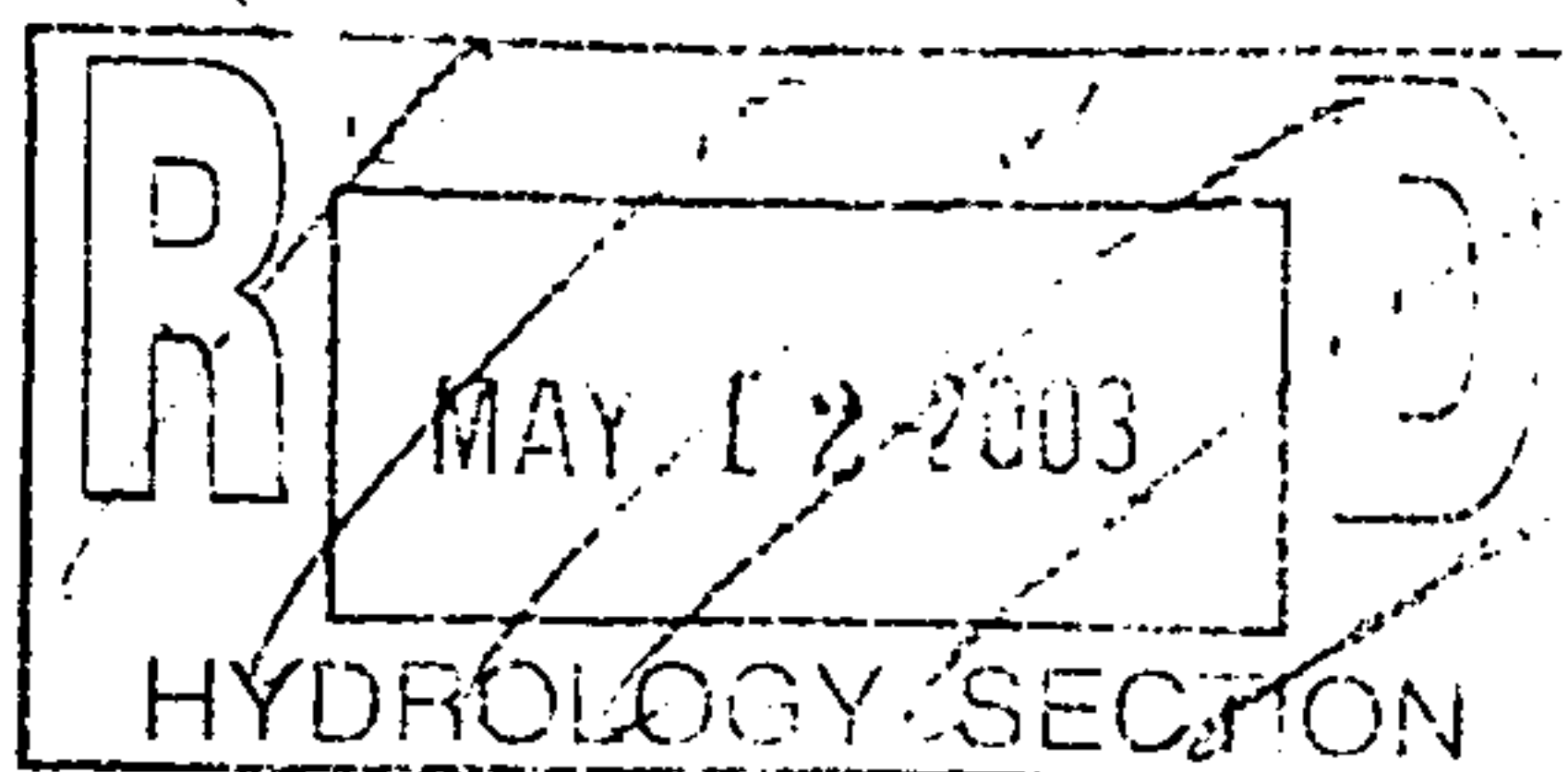
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL, *REQUIRES TCL or equal*
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☒ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION (TCL)
- ☐ 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 (PERM.)
- ☐ CERTIFICATE OF OCCUPANCY (TEMP.)
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☐ NO
- ☐ COPY PROVIDED



DATE SUBMITTED: MAY 12, 2003 BY: FRED ROBINSON

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 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) 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

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 7, 2003

David Thompson
Thompson Engineering Consultants, Inc.
4800 Juan Tabo NE, Suite C
Albuquerque, New Mexico 87111

**RE: Drainage and Grading Plan for McDonald's Restaurant @ 4th and Bridge
(L14-D17) Dated April 23, 2003**

Dear Mr. Thompson:

The above referenced drainage plan is approved for Building Permit and SO #19 by Hydrology. Please have the contractor contact Excavation Permits for the SO #19. Upon completion of the project the engineer will need to certify the project per the DPM for Certificate of Occupancy release. Also, Matt Cline will have to inspect and approve the SO #19 connections.

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

Sincerely,

Carlos A. Montoya
City Floodplain Administrator

C: Matt Cline, Arroyo Maintenance
Pam Lujan, Excavation Permits