

CITY OF ALBUQUERQUE



December 5, 2008

G. Robert Adams, P.E.
Adams Engineering
910 S. Kimball Ave.
Southlake, TX 76092

Re: McDonald's, 150 98th St. NW,
Approval of Permanent Certificate of Occupancy (C.O.), Engineer's Stamp
dated 5-12-08 (K-09/D031A)
Certification dated 10-17-08

Mr. Adams,

PO Box 1293

Based upon the information provided in your submittal received 12-4-08, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

Albuquerque

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

NM 87103

Sincerely,

Timothy E. Sims
Plan Checker
Development and Building Services

www.cabq.gov

C: CO Clerk – Katrina Sigala
File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 12/2005)

PROJECT TITLE: McDonalds ZONE MAP: K-09/D031A
 DRB#: 1004354 EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: Lot Numbered Two (2) of the Plat of Lots 1, 2, 3, 4, 5, and 6 Krawia
 CITY ADDRESS: 150 98th Street, NW

ENGINEERING FIRM: Adams Engineering CONTACT: Ben Sims
 ADDRESS: 910 S. Kimball Ave. PHONE: 817-328-3200
 CITY, STATE: Southlake, Tx. ZIP CODE: 76092

OWNER: McDonalds CONTACT: Jimmy Lopez
 ADDRESS: 511 E. Carpenter Hwy, Ste. 375 PHONE: 972-864-5314
 CITY, STATE: Irving, Tx. ZIP CODE: 75062

ARCHITECT: Michael Ebanks CONTACT: _____
 ADDRESS: 2111 McDonalds Dr. PHONE: 630-623-3000
 CITY, STATE: Oak Brook, IL ZIP CODE: 60523

SURVEYOR: Precision Surveys, Inc. CONTACT: Larry W. Medrano
 ADDRESS: 8500-A Jefferson St., NE PHONE: 505-856-5700
 CITY, STATE: Albuquerque, NM ZIP CODE: 87113

CONTRACTOR: Cardona Contracting & Development, LLC CONTACT: Mark Cardona
 ADDRESS: 316 USUNA NE, Ste. 202 PHONE: 505-856-2573
 CITY, STATE: Albuquerque, NM ZIP CODE: 87107

TYPE OF SUBMITTAL:
☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL
☐ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☒ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☒ TRAFFIC CIRCULATION LAYOUT
☒ ENGINEER'S CERT (TCL)
☐ ENGINEER'S CERT (DRB SITE PLAN)
☐ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL SOUGHT:
☐ SIA/FINANCIAL GUARANTEE RELEASE
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. 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: 10.17.08

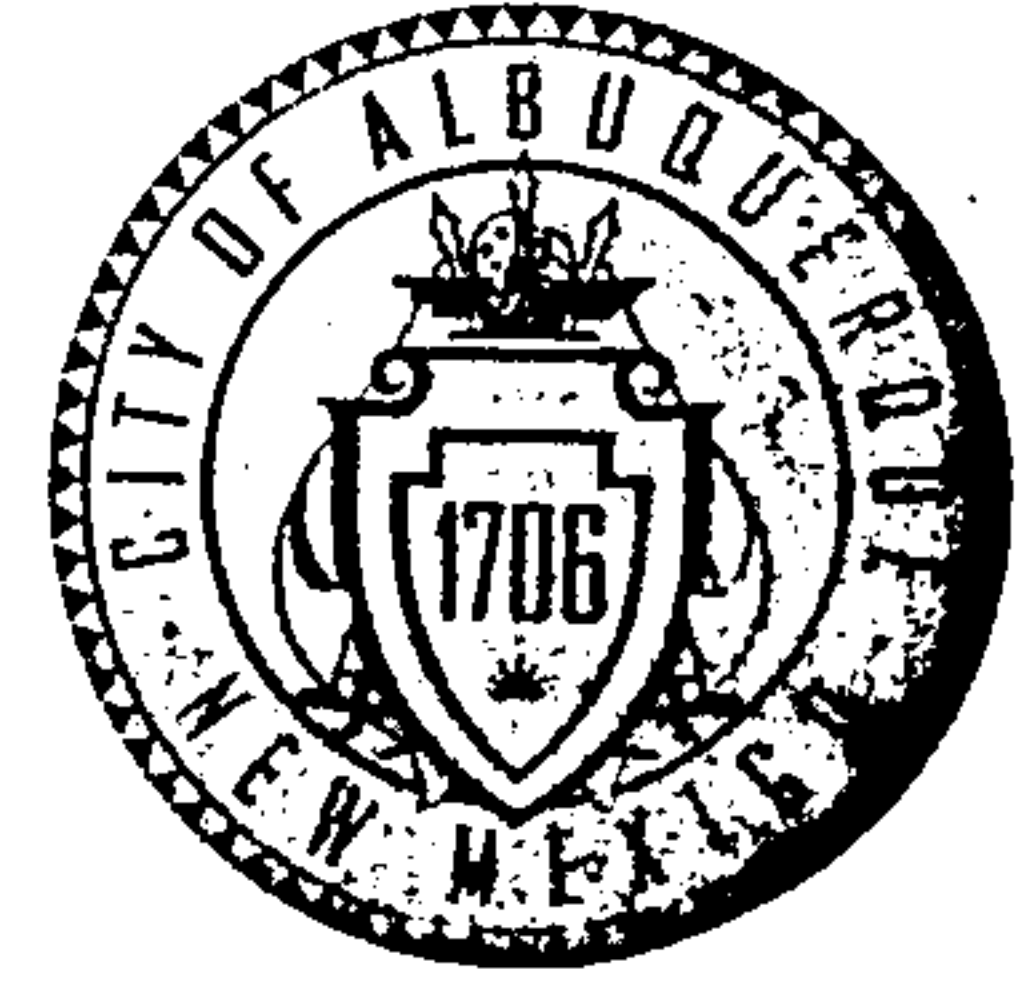
RECEIVED
 OCT 20 2008
 BY: G. Rodriguez
 HYDROLOGY

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to 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 subdivision containing more than ten (10) lots or constituting five (5) acres or more.

RECEIVED
 NOV 17 2008
 HYDROLOGY
 SECTION

CITY OF ALBUQUERQUE



*Planning Department
Transportation Development Services Section*

October 23, 2008

G. Robert Adams, P.E.
ADAMS ENGINEERING
910 S. Kimball Avenue
Southlake, TX 76092

Re: Certification Submittal for Final Building Certificate of Occupancy for
McDonalds, [K-9 / D031A]
150 98th Street NW
Engineer's Stamp Dated 10/17/08

PO Box 1293

Dear Mr. Adams:

Albuquerque

The TCL / Letter of Certification submitted on October 20, 2008 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

NM 87103

Sincerely,

www.cabq.gov

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

c: Engineer
Hydrology file
CO Clerk

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 12/2005)

PROJECT TITLE: McDonalds ZONE MAP: K-09/0031A
 DRB#: 1004354 EPC#: _____ WORK ORDER#: _____

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ENGINEERING FIRM: Adams Engineering CONTACT: Ben Sims
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 CITY, STATE: Albuquerque, NM ZIP CODE: 87113

CONTRACTOR: Cordova Contracting & Development, LLC CONTACT: Mark Cordova
 ADDRESS: 316 USNA NE, Ste. 202 PHONE: 505-856-2573
 CITY, STATE: Albuquerque, NM ZIP CODE: 87107

TYPE OF SUBMITTAL:

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- ☐ DRAINAGE PLAN 1st SUBMITTAL
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL G & D PLAN
- ☐ GRADING PLAN
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- ☐ ENGINEER'S CERT (HYDROLOGY)
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- ☐ TRAFFIC CIRCULATION LAYOUT
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- ☒ CERTIFICATE OF OCCUPANCY (PERM)
- ☐ CERTIFICATE OF OCCUPANCY (TEMP)
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

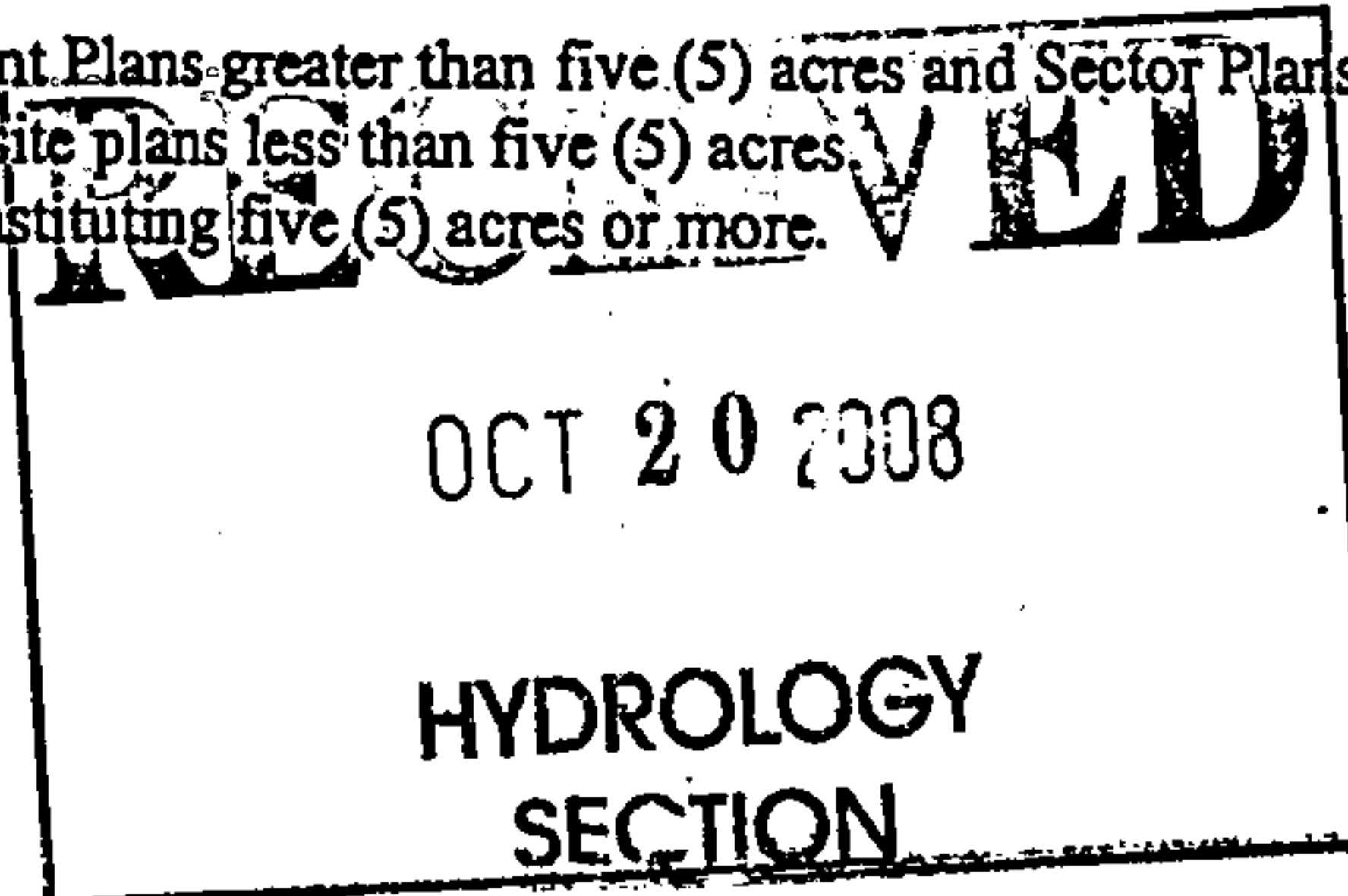
WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
- ☐ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: 10.17.08 BY: G. Rodriguez

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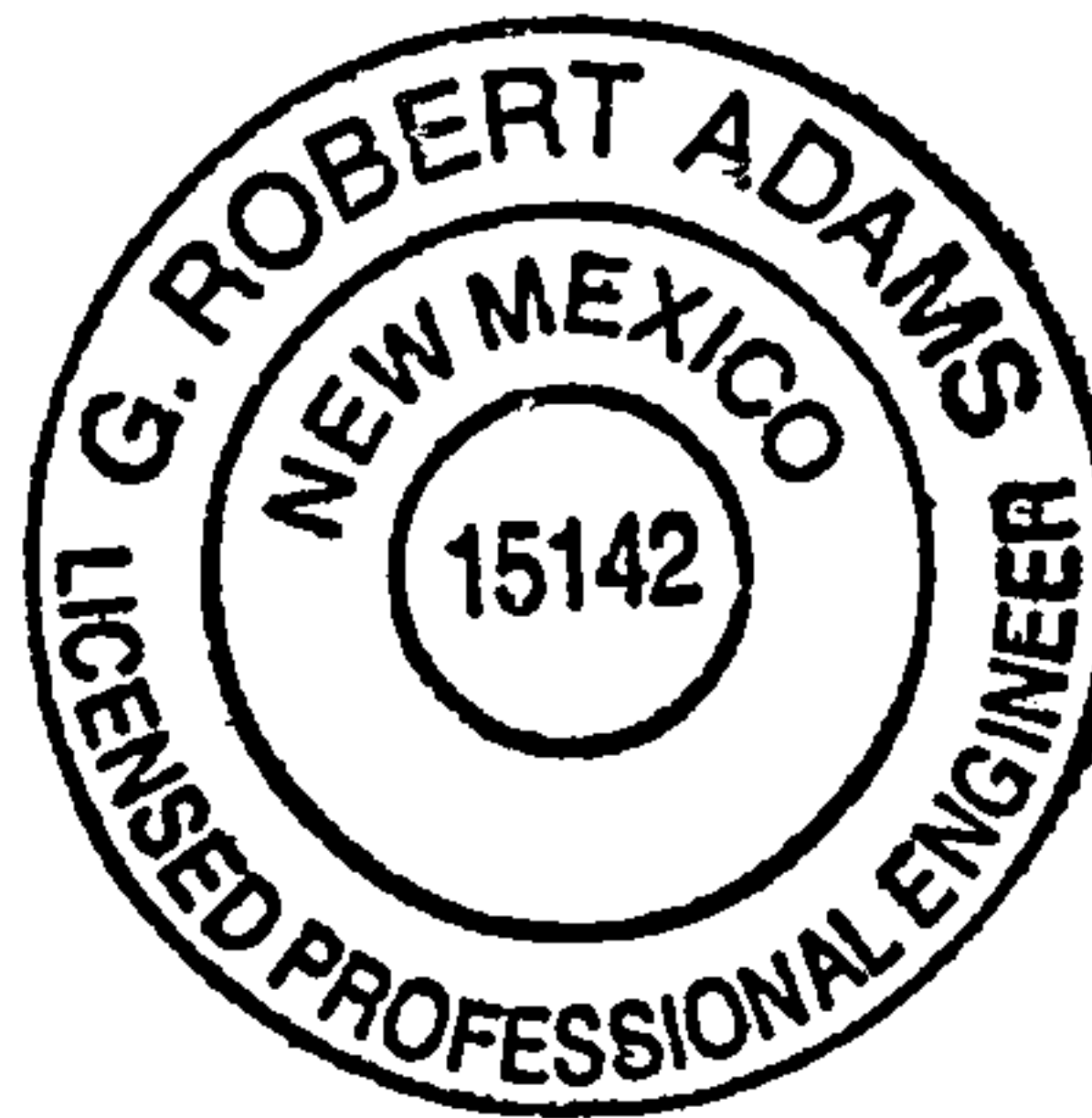
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3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.





TRAFFIC CERTIFICATION

I, G. ROBERT ADAMS, NMPE 15142, OF THE FIRM ADAMS ENGINEERING, HEREBY CERTIFY THAT THIS PROJECT IS IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE DRB, AA OR TCL APPROVED PLAN DATED JULY 19, 2006. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY BEN SIMS OF THE FIRM ADAMS ENGINEERING. I FURTHER CERTIFY THAT A REPRESENTATIVE FROM ADAMS ENGINEERING HAS VISITED THE PROJECT SITE ON OCTOBER 14th 2008 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR CERTIFICATE OF OCCUPANCY.



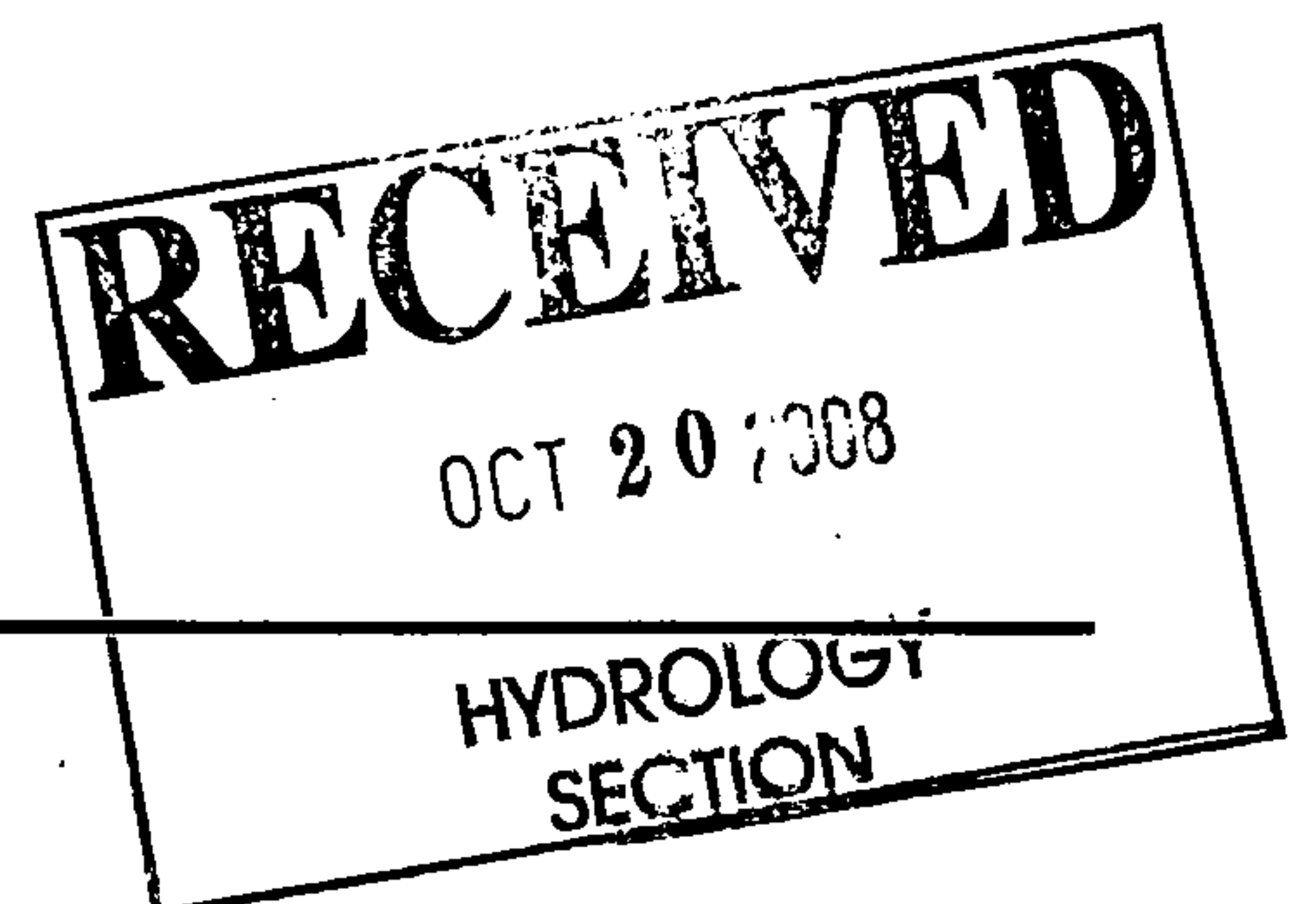
ENGINEER'S STAMP

A handwritten signature of G. Robert Adams in black ink.

Signature of Engineer

10.17.08

Date





Engineers • Planners • Landscape Architects • Scientists
910 S. Kimball Avenue □ Southlake, Texas 76092
(817) 328-3200 FAX (817) 328-3299

TO: KRISTAL METRO, P.E.
TRAFFIC ENGINEER
TRANSPORTATION DEVELOPMENT
600 2ND ST. NW, STE. 201
ALBUQUERQUE, NM 87103
PHONE: 505-924-3991

LETTER OF TRANSMITTAL

DATE: 10/17/08	JOB NO: 2006-256
ATTN: KRISTAL METRO P.E.	
RE: McDONALDS at VOLCANO RD. AND 98 TH ST. NW	
CC:	

WE ARE SENDING YOU ☒ ATTACHED ☐ UNDER SEPARATE COVER VIA: _____

<input type="checkbox"/> Blueline Prints	<input type="checkbox"/> Blackline Prints	<input type="checkbox"/> Reproducible Plans	<input type="checkbox"/> Specifications	<input checked="" type="checkbox"/> Copy of Letter
<input type="checkbox"/> Change Order	<input type="checkbox"/> Diskette(s)	<input type="checkbox"/> Shop Drawings	<input type="checkbox"/> Bid Documents	<input type="checkbox"/> Invoice
<input type="checkbox"/> Samples	<input type="checkbox"/> As-builts	<input type="checkbox"/> Punchlist	<input type="checkbox"/> Other	

COPIES	DESCRIPTION
1	TRAFFIC CERTIFICATION LETTER
1	DRAINAGE AND TRANSPORTATION INFORMATION SHEET

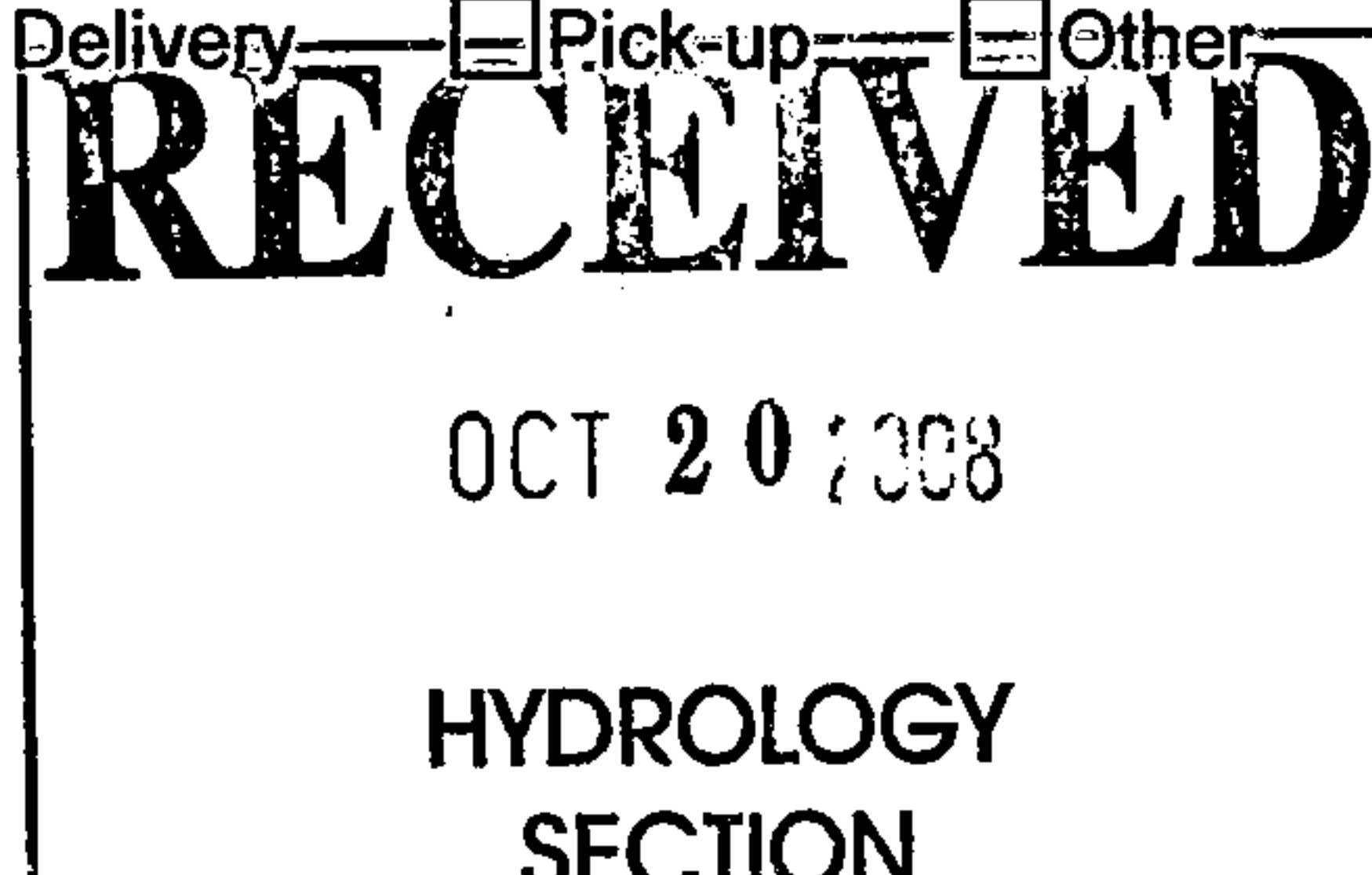
THESE ARE TRANSMITTED as checked below:

<input type="checkbox"/> For Approval	<input checked="" type="checkbox"/> For your use	<input type="checkbox"/> As requested by: _____
<input type="checkbox"/> For Review & Comment	<input type="checkbox"/> For Bidding	<input type="checkbox"/> Return ASAP to: _____
<input type="checkbox"/> Revise & Resubmit	<input type="checkbox"/> Rejected	<input type="checkbox"/> Approved as Noted

REMARKS:

DELIVERED VIA: ☐ U.S. Mail ☒ Std Overnight ☐ Priority Overnight ☐ Hand Delivery ☐ Pick-up ☐ Other

FROM: Ramiro Lucio



From: Origin ID: GLEA (817)328-3200
 Randi Smith
 Adams Engineering
 910 S. Kimball Ave.

Southlake, TX 76092



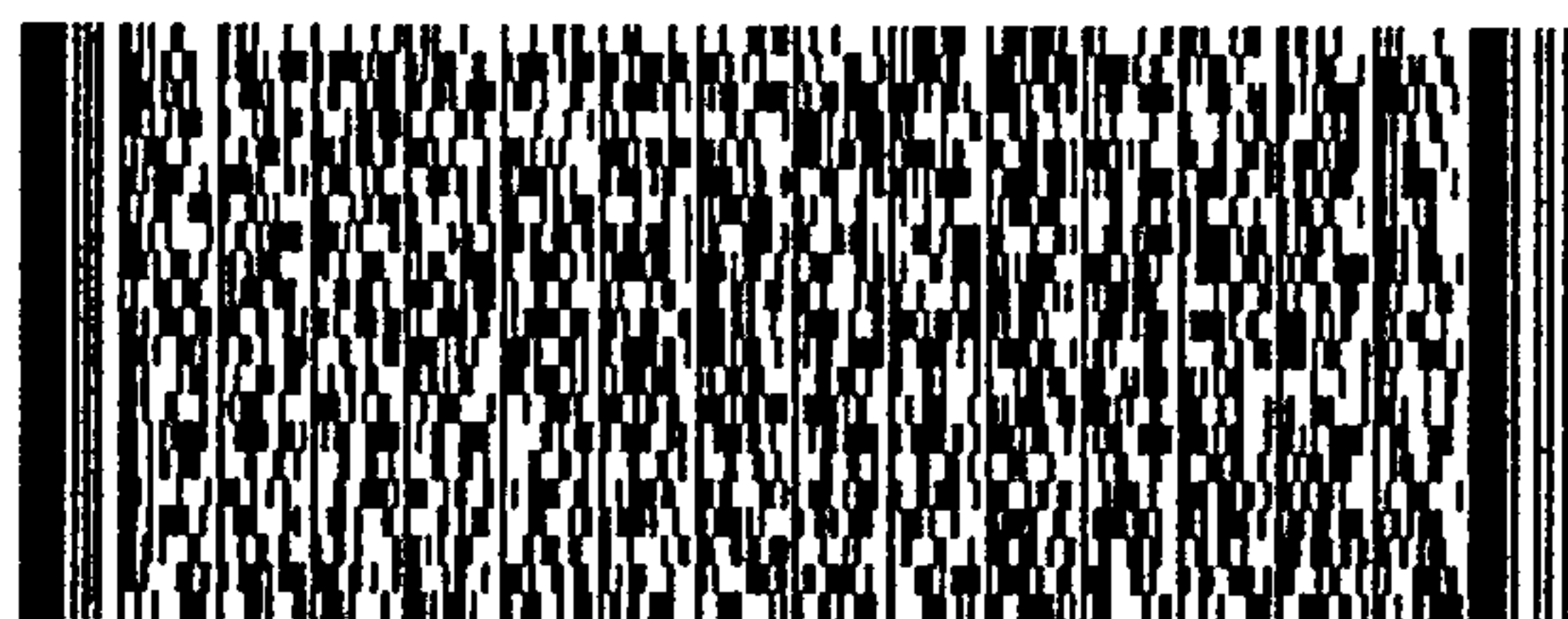
CL50 06 10 02 1/24

SHIP TO: 505-924-3991

BILL SENDER

Kristal Metro P.E.
McDonalds
600 2ND ST NW STE 201

ALBUQUERQUE, NM 871022265



Ship Date: 17OCT08
 ActWgt: 1 LB
 CAD: 1097715/INET8091
 Account#: S *****

Delivery Address Bar Code



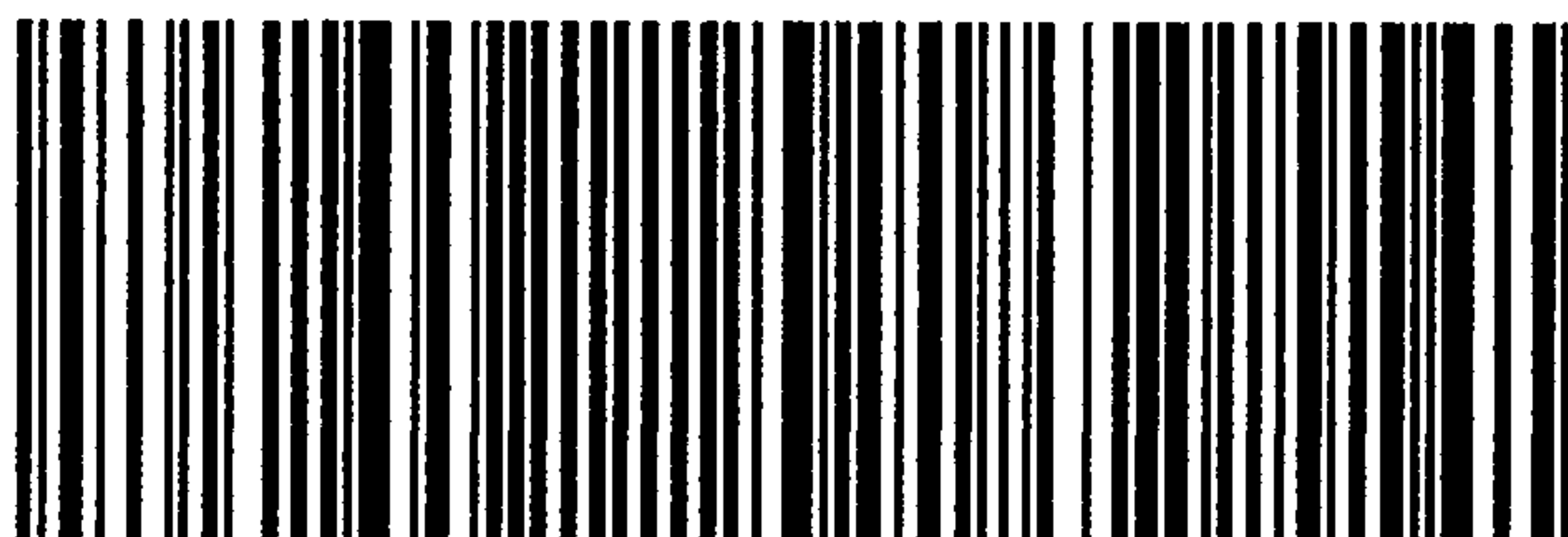
Ref # 2006.256
 Invoice #
 PO #
 Dept #

TRK# 7921 2865 4425
 0201

MON - 20OCT A1
STANDARD OVERNIGHT

XX ABQA

87102
NM-US
ABQ



After printing this label:

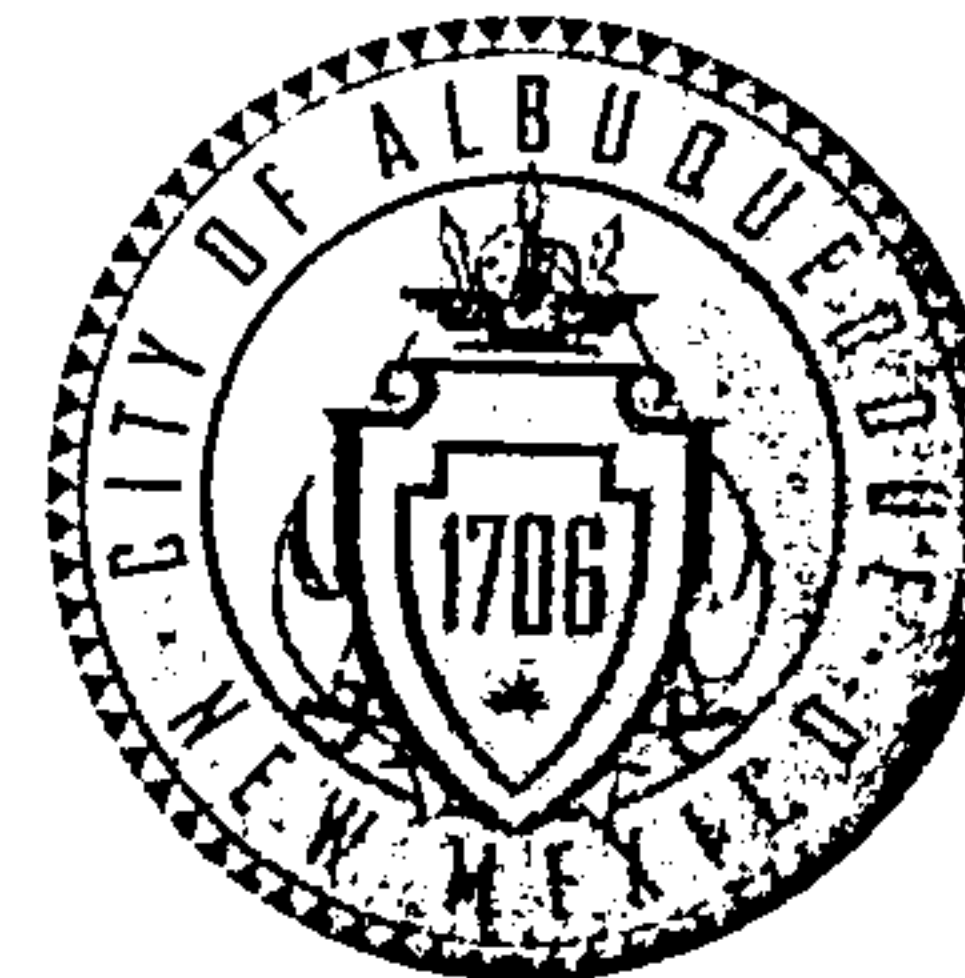
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development & Building Services



May 16, 2008

Sarah Abeyta, P.E.
Tierra West, LLC
5571 Midway Park Place NE
Albuquerque, New Mexico 87109

RE: **McDonalds at 98th & Volcano – 150 98th St. NW** (K09 – D 031 A)
Grading & Drainage Plan for Grading & Building Permits
(PE Stamps → Sheets C6 = 4-29-08; C7 = 1-03-08; and C8 = 3-24-08)

Dear Ms. Abeyta:

Based upon the information provided in your original submittal dated 3/31/08 and revised plans received 4/30/08 and 5/12/08, the above referenced Grading and Drainage Plan is approved for Building Permit, conditioned upon compliance with the NPDES/SWPPP requirements discussed below.

PO Box 1293

Please attach a copy of these approved plans to the Building Permit plan sets prior to requesting sign-off by Hydrology.

Albuquerque

SWPPP: This project requires a National Pollutant Discharge Elimination System (NPDES) permit. You are required to send a copy of the P.E. certified Storm Water Pollution Prevention Plan (SWPPP) on a CD to City of Albuquerque, Storm Drainage Division at:

NM 87103

Department of Municipal Development, Storm Drainage Division

P.O. Box 1293, One Civic Plaza, Rm. 301, Albuquerque, NM 87103

If you have any question concerning the SWPPP, please contact Kathy Verhage 768-3654.

www.cabq.gov

Prior to Certificate of Occupancy approval, an Engineer's Certification of compliance with this plan is required per the DPM.

If I can be of further assistance, please feel free to contact me at 924-3981.

Sincerely,


Gregory R. Olson, P.E.

XC: Brad Bingham, COA/Hydrology
G. R. Adams, Adams Engineering, 500 Nolen Ave, Suite 550, Southlake, TX 76092
Kathy Verhage, COA/DMD-Storm Drainage
✓ file K09-D 031 A

DRAINAGE AND TRANSPORTATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: SE Corner Volcano Road & 98th Street
DRB: 1004354 EPC #: _____

ZONE MAP/DRG. FILE #: K9/D031A
WORK ORDER #: 7903.82

LEGAL DESCRIPTION: Krania Subdivision

CITY ADDRESS: _____

ENGINEERING FIRM: Tierra West, LLC
ADDRESS: 5571 Midway Park Place
CITY, STATE: Albuquerque, NM

CONTACT: Ron Bohannon
PHONE: (505) 858-3100
ZIP CODE: 87109

OWNER: McDonald's USA, LLC
ADDRESS: 511 E John Carpenter
CITY, STATE: Irving, TX

CONTACT: Darren Shepherd
PHONE: (972) 869-5349
ZIP CODE: 75062

ARCHITECT: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

SURVEYOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

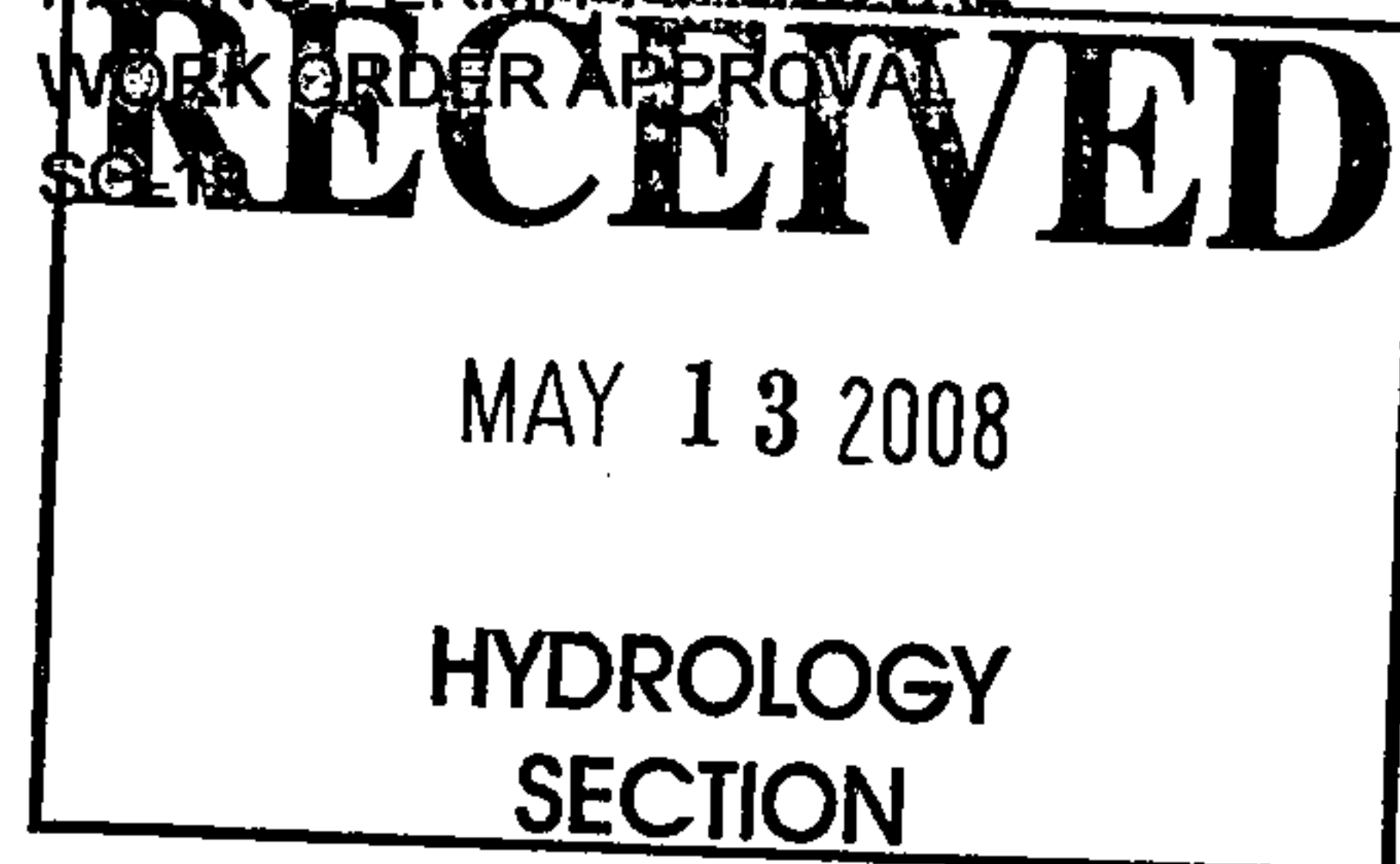
- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL, *REQUIRES TCL or equal*
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☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ ENGINEERS CERTIFICATION (TCL)
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☐ OTHER

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☐ CERTIFICATE OF OCCUPANCY (TEMP.)
☒ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☐ SCL

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
☒ NO
☐ COPY PROVIDED



DATE SUBMITTED: 5/13/2008 BY: Sarah Abeyta

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:

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

TW

Tierra West, LLC.

(505) 858-3100

5571 Midway Park Place NE, Albuquerque, NM 87109

TO Greg Olson

PDS

LETTER OF TRANSMITTAL

DATE: 5/13/2008 JOB NO: 28002

ATTENTION: Greg Olson

RE: McDonalds @ 98th & Central

PHONE: 924-3981

WE ARE SENDING YOU

☐

Attached

☐

Under Separate cover via _____ the following items:

☐

Shop drawings

☐

Prints

☒

Plans

☐

Samples

☐

Specifications

☐

Copy of letter

☐

Change order

☐

COPIES	DATED	NO.	DESCRIPTION
1			Copy of revised grading and drainage plan dated 5-12-08

THESE ARE TRANSMITTED as checked below:

☐

For approval

☐

Approved as submitted

☐

FOR SIGNATURE(S)

☐

For your use

☐

Approved as noted

☐☒

As requested

☐

Returned for corrections

☐

For review and comments

☐☐

FOR BIDS DUE _____ 20 _____

☐

PRINTS RETURNED AFTER LOAN TO US

REMARKS

Please give me a call if you have any questions.

RECEIVED

MAY 13 2008

HYDROLOGY
SECTION

COPY TO _____

RECEIVED BY

S. Hardley

Date 05/13/08

SIGNED

Sarah Abeyta

gan

TIERRA WEST, LLC

March 31, 2008

Mr. Curtis Cherne, PE
Sr. Engineer – Planning Department
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

RE: **McDonalds, Volcano Rd. and 98th Street
Grading and Building Permit Approval
Zone Atlas Page K9/D30A**

Dear Mr. Cherne:

Per your correspondence dated March 4, 2008, regarding the above referenced property, please find the following responses addressing the comments listed below.

1. It appears the outfall for Basin 5 is north of the water block and will outfall to the ROW. Runoff from this site is to enter the onsite storm drain.
Basin 5 is a landscaped area which drains approximately 0.35 cfs to Volcano Road. The approved Grading and Drainage Plan allowed a portion of the discharge from the Krania development to drain to Volcano Road. With the Krania work order curb and gutter were installed on Volcano Road and a temporary asphalt curb was built to direct the flows generated by the site to and existing inlet further east of the site. This small amount of drainage, 0.35 cfs, will also be directed to the existing drop inlet via the new curb and gutter and asphalt curb.
2. Please reference the Site Development Plan on the Building Permit submittal plan set.
The approved Site Development Plan will be referenced on the Building Permit Plan set.
3. I did not see the trash enclosure pad. The enclosure pad at restaurants are required to drain to the sanitary sewer after passing through the grease trap.
Enclosed is the Master Utility Plan, prepared by Adams Engineering, showing the trash enclosure. As shown on the plan the drain from the dumpster area will pass thru a grease trap before it enters the SAS line.

Basin 2
1.73 cfs
to Volcano

Basin 5
0.35 cfs
to Volcano

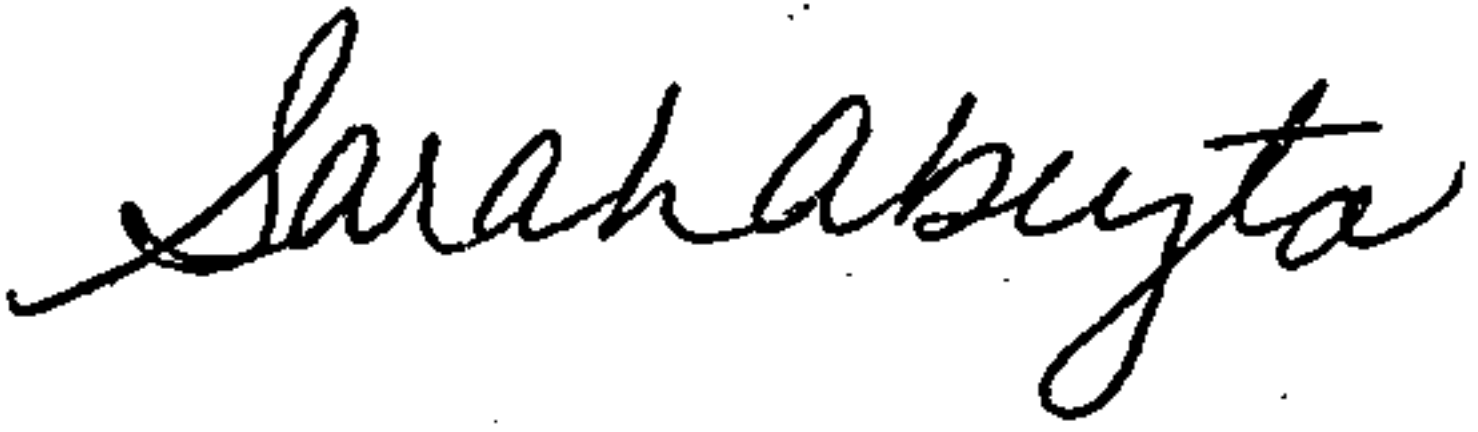
Need SDP
on GP?
OK

22811/2 Sarah
Called Sarah
Abeyk. 4/23
she will have
Adams revise
to submit
① No sheet filed
② Ref. Krania P.O.

RECEIVED
MAR 31 2008
HYDROLOGY
SECTION

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

Sincerely,

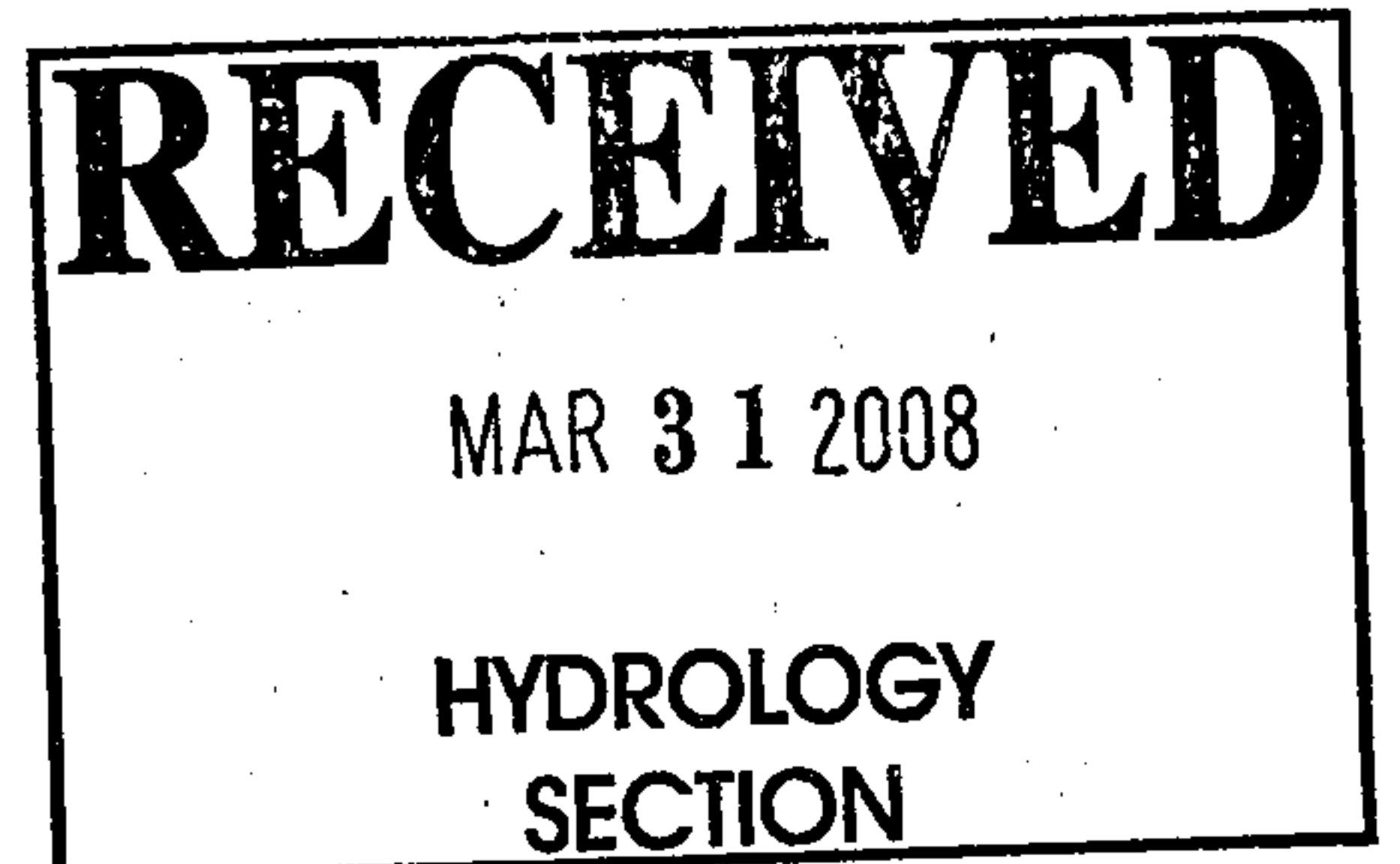


Sarah Abeyta

Enclosure/s

JN: 28002
SA/cia

Z:\2008\28002\Correspondence\28002 Curtis Cheme Drain Response Ltr 03-31-08.doc



DRAINAGE AND TRANSPORTATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: SE Corner Volcano Road & 98th Street
DRB # 1004354 EPC #: _____

ZONE MAP/DRG. FILE #: K9 1D30A
WORK ORDER #: 7903.82

LEGAL DESCRIPTION: Krania Subdivision

CITY ADDRESS: _____

ENGINEERING FIRM: Tierra West, LLC
ADDRESS: 5571 Midway Park Place
CITY, STATE: Albuquerque, NM

CONTACT: Ron Bohannon
PHONE: (505) 858-3100
ZIP CODE: 87109

OWNER: McDonald's USA, LLC
ADDRESS: 511 E John Carpenter
CITY, STATE: Irving, TX

CONTACT: Darren Shepherd
PHONE: (972) 869-5349
ZIP CODE: 75062

ARCHITECT: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

SURVEYOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

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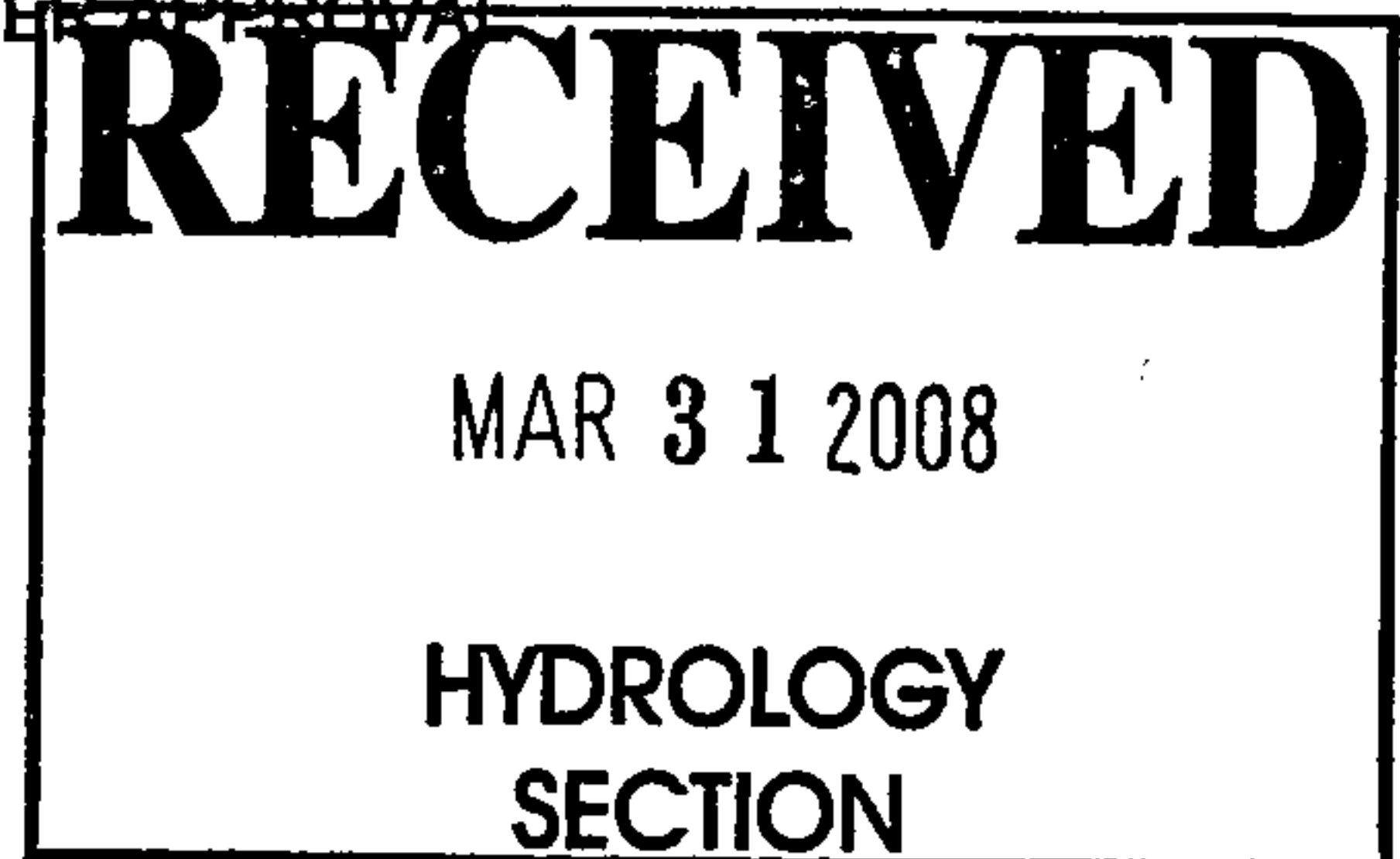
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- ☐ ENGINEERS CERTIFICATION (TCL)
- ☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

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

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED



DATE SUBMITTED: 3/31/2008 BY: Sarah Abeyta

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 Plans:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
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3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.



Tierra West, LLC.

(505) 858-3100

5571 Midway Park Place NE, Albuquerque, NM 87109

TO City of Albuquerque

Sr Engineer - Planning Department

Plaza del Sol

600 N. Second Street NW

Albuquerque, NM 87102

LETTER OF TRANSMITTAL

DATE: 3/31/2008 JOB NO: 28002

ATTENTION: Curtis Cherne

RE: McDonalds - Volcano Rd & Sage Street

PHONE:

WE ARE SENDING YOU

☐

Attached

☐

Under Separate cover via _____ the following items:

☐

Shop drawings

☐

Prints

☒

Plans

☐

Samples

☐

Specifications

☐

Copy of letter

☐

Change order

☐

COPIES	DATED	NO.	DESCRIPTION
1			Grading and Building Permit Approval Letter (Z:\2008\28002\Correspondence\28002 Curtis Cherne Drain Response Ltr 03-31-08.doc)
2			Grading and Draiang Plan
1			Master Utility Plan

THESE ARE TRANSMITTED as checked below:

☐

For approval

☐

Approved as submitted

☐

FOR SIGNATURE(S)

☐

For your use

☐

Approved as noted

☐☒

As requested

☐

Returned for corrections

☐

For review and comments

☐☐

FOR BIDS DUE _____ 20 _____

☐

PRINTS RETURNED AFTER LOAN TO US

REMARKS

RECEIVED

MAR 31 2008

**HYDROLOGY
SECTION**

COPY TO

RECEIVED BY

S. Handley

Date

03/31/08

SIGNED

Cynthia Abeyta for
Sarah Abeyta, EI

CITY OF ALBUQUERQUE



March 4, 2008

Ronald Ray Bohannon, P.E.
C/O G. Robert Adams, P.E.
Tierra West, LLC
5571 Midway Park Place NE
Albuquerque, NM 87109

**Re: McDonalds, Volcano Rd and 98th St., Grading and Drainage Plan
Engineer's Stamp dated 1-24-08 (K9/D030A)**

Dear Mr. Adams,

Based upon the information provided in your submittal received 2-4-08, 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

- It appears the outfall for Basin 5 is north of the water block and will outfall to the ROW. Runoff from this site is to enter the onsite storm drain.
- Please reference the Site Development plan on the Building Permit submittal plan set.
- I did not see the trash enclosure pad. Trash enclosure pads at restaurants are required to drain to the sanitary sewer after passing through the grease trap.

If you have any questions, you can contact me at 924-3695.

Sincerely,

Curtis A. Cherne, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: file

DRAINAGE AND TRANSPORTATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: SE Corner Volcano Road & 98th Street
DRB: 1004354 EPC #: _____

ZONE MAP/DRG. FILE #: K9 / D630A
WORK ORDER #: 7903.82

LEGAL DESCRIPTION: Krania Subdivision

CITY ADDRESS: _____

ENGINEERING FIRM: Tierra West, LLC
ADDRESS: 5571 Midway Park Place
CITY, STATE: Albuquerque, NM

CONTACT: Ron Bohannon
PHONE: (505) 858-3100
ZIP CODE: 87109

OWNER: McDonald's USA, LLC
ADDRESS: 511 E John Carpenter
CITY, STATE: Irving, TX

CONTACT: Darren Shepherd
PHONE: (972) 869-5349
ZIP CODE: 75062

ARCHITECT: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

SURVEYOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

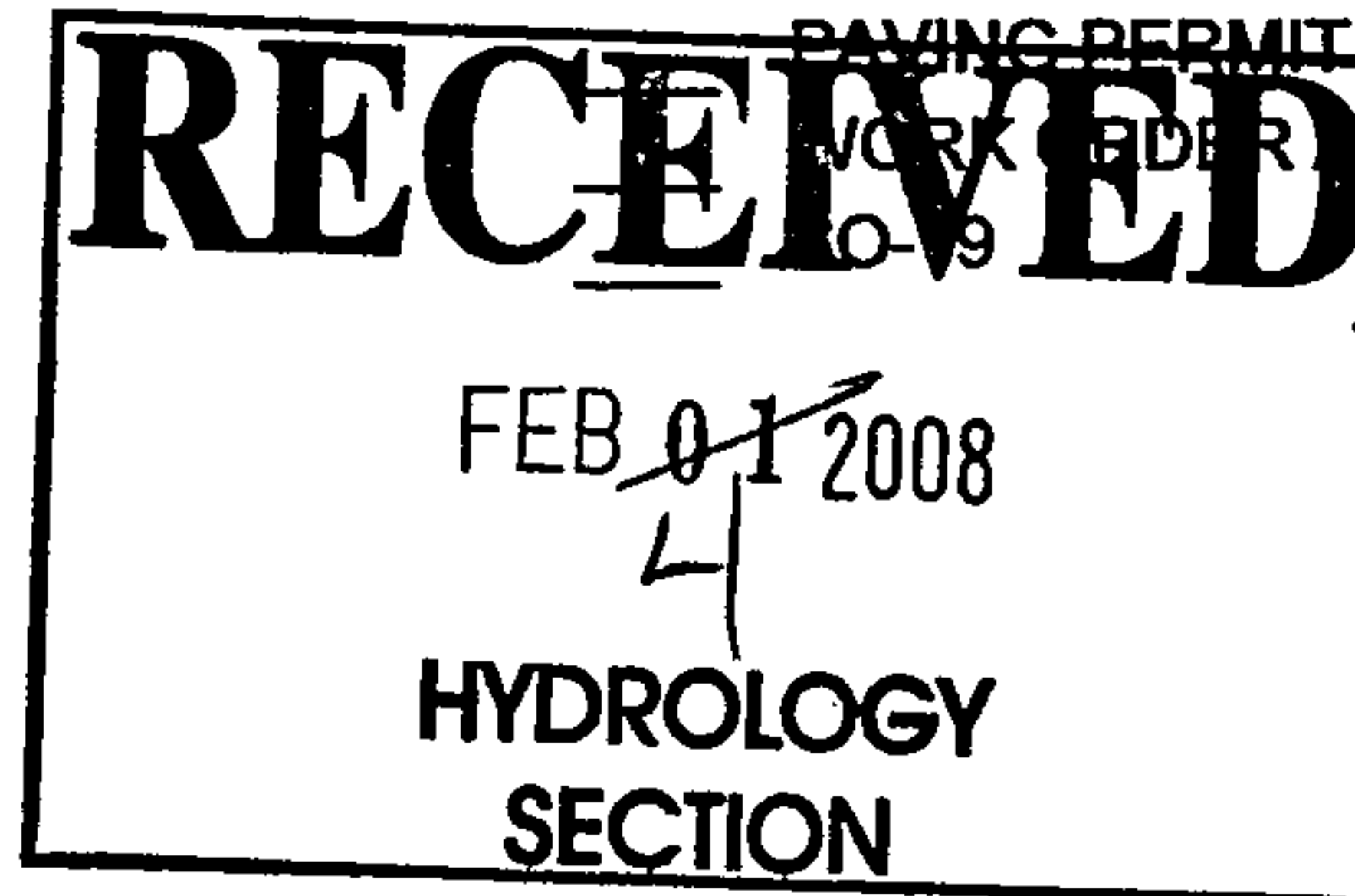
- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL, *REQUIRES TCL or equal*
☐ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ ENGINEERS CERTIFICATION (TCL)
☐ ENGINEERS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

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA / FINANACIAL GUARANTEE RELEASE
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D. APPROVAL
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
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☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
☒ NO
☐ COPY PROVIDED



DATE SUBMITTED: 2/1/2008 BY: Sarah Abeyta

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:

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Weighted E Method

Developed Basins

Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		100-Year			10-Year		
			%	(acres)	%	(acres)	%	(acres)	%	(acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs
1	84638	1.94	0%	0	25%	0.49	0%	0.00	75%	1.46	1.645	0.266	7.35	0.985	0.159	4.58
2	18702	0.43	0%	0	25%	0.11	0%	0.00	75%	0.32	1.645	0.059	1.63	0.985	0.035	1.01
3	33508	0.77	0%	0	25%	0.19	0%	0.00	75%	0.58	1.645	0.105	2.91	0.985	0.063	1.81
4	10122	0.23	0%	0	25%	0.06	0%	0.00	75%	0.17	1.645	0.032	0.88	0.985	0.019	0.55
5	87772	2.01	0%	0	25%	0.50	0%	0.00	75%	1.51	1.645	0.276	7.63	0.985	0.165	4.75
6	72144	1.66	0%	0	25%	0.41	0%	0.00	75%	1.24	1.645	0.227	6.27	0.985	0.136	3.90
7	64702	1.49	0%	0	25%	0.37	0%	0.00	75%	1.11	1.645	0.204	5.62	0.985	0.122	3.50
8	44804	1.03	0%	0	25%	0.26	0%	0.00	75%	0.77	1.645	0.141	3.89	0.985	0.084	2.42
TOTAL	416,394	9.56										0.266	36.18		0.159	4.58

Off-Site Developed Basins

Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		100-Year			10-Year		
			%	(acres)	%	(acres)	%	(acres)	%	(acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs
1A	4367.56	0.10	0%	0	25%	0.03	0%	0.00	75%	0.08	1.645	0.014	0.38	0.985	0.008	0.24
2A	6447	0.15	0%	0	25%	0.04	0%	0.00	75%	0.11	1.645	0.020	0.56	0.985	0.012	0.35
TOTAL	6,447	0.25										0.020	0.94		0.012	0.35

Equations:

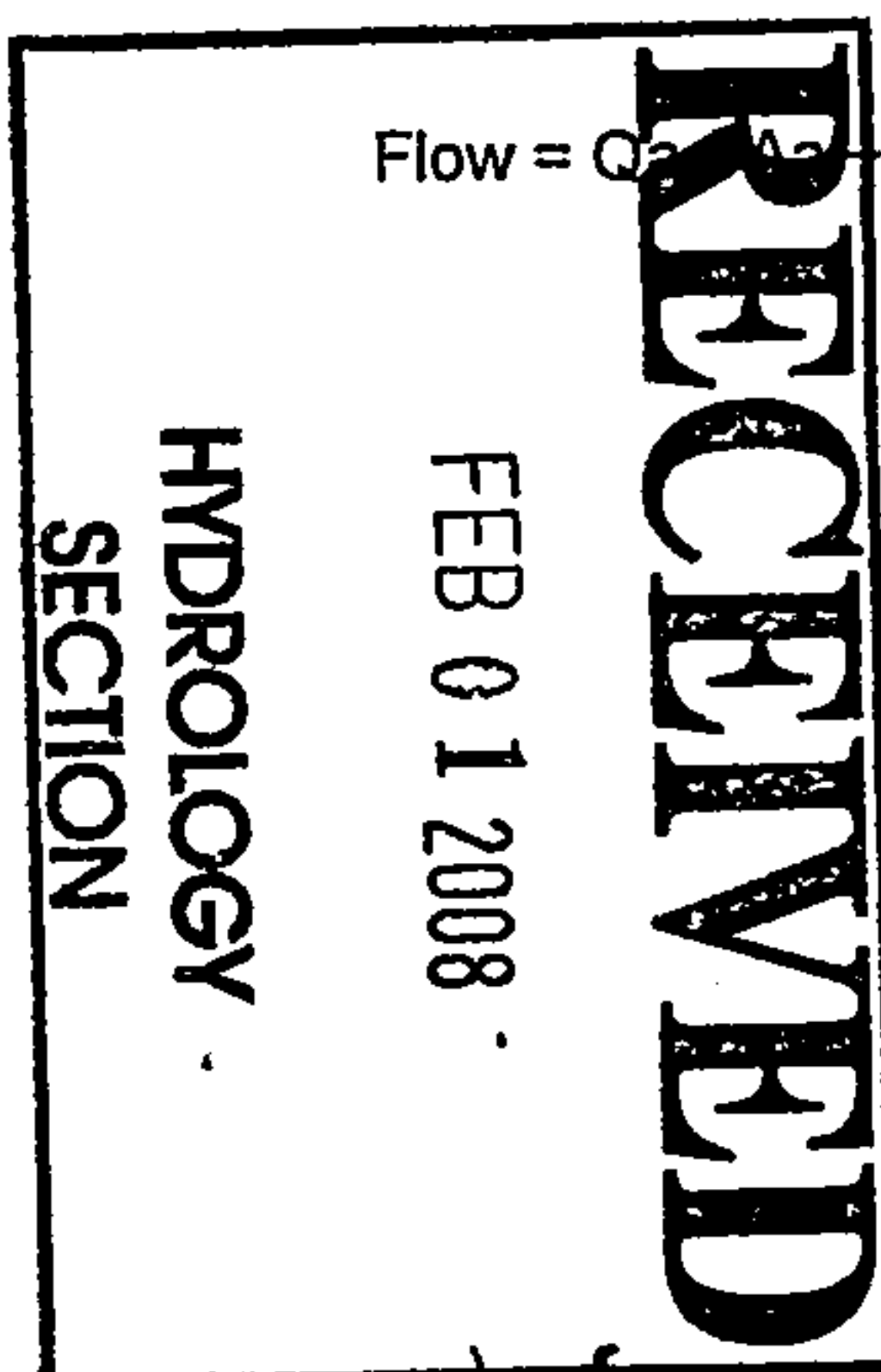
$$\text{Weighted E} = E_a \cdot A_a + E_b \cdot A_b + E_c \cdot A_c + E_d \cdot A_d / (\text{Total Area})$$

$$\text{Volume} = \text{Weighted D} \cdot \text{Total Area}$$

$$\text{Flow} = Q_a \cdot A_a + Q_b \cdot A_b + Q_c \cdot A_c + Q_d \cdot A_d$$

Excess Precipitation, E (inches)		
Zone 1	100-Year	10 - Year
E _a	0.44	0.08
E _b	0.67	0.22
E _c	0.99	0.44
E _d	1.97	1.24

Peak Discharge (cfs/acre)		
Zone 1	100-Year	10 - Year
Q _a	1.29	0.24
Q _b	2.03	0.76
Q _c	2.87	1.49
Q _d	4.37	2.89



WEIGHTED E FROM APPROVED DRAINAGE REPORT K9/D31



TIERRA WEST, LLC

February 1, 2008

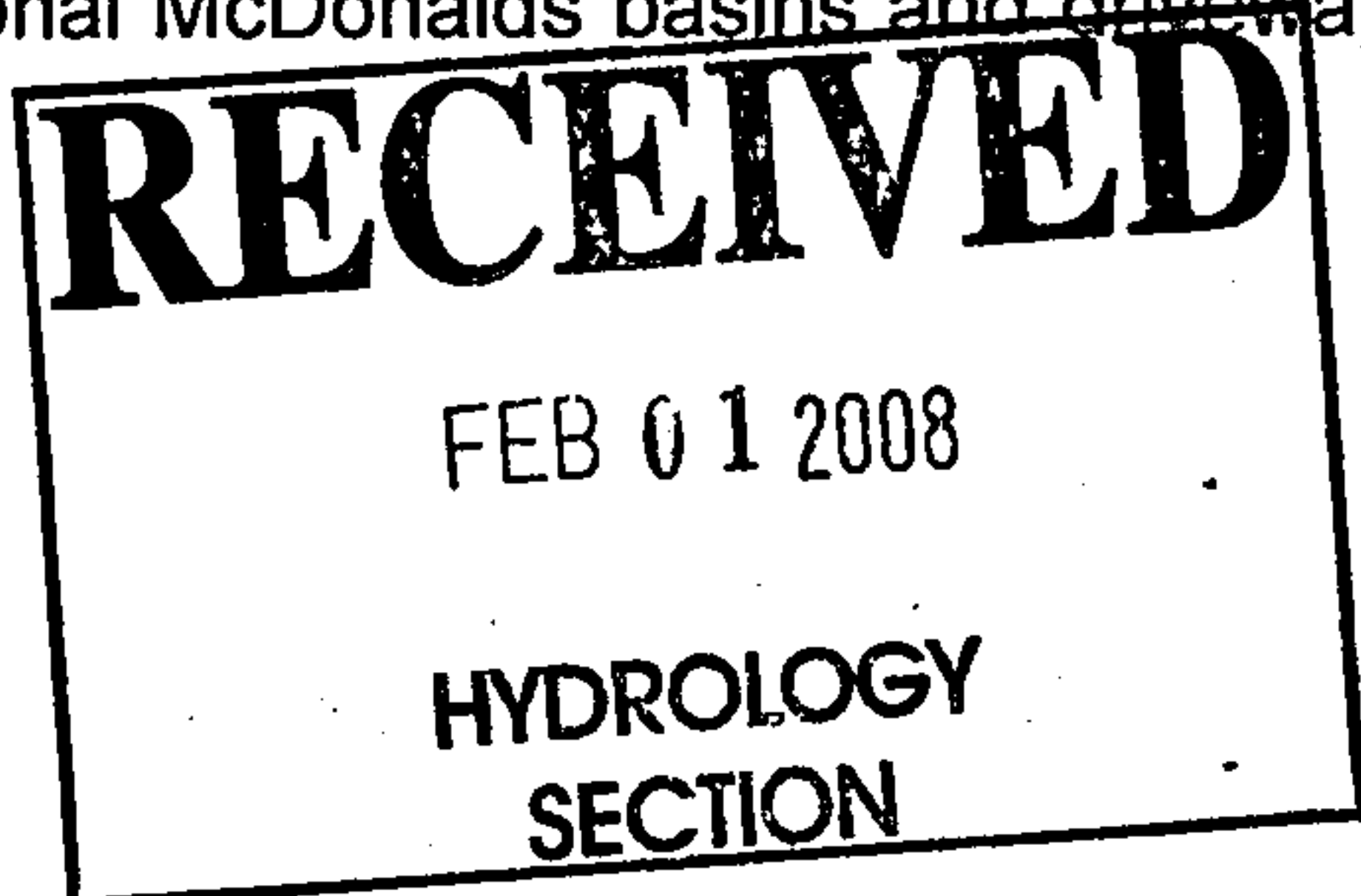
Mr. Bradley Bingham, PE
Public Works Department
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

**RE: Grading Plan for Building Permit Approval
McDonalds NE Corner 98th & Central
Zone Atlas K9**

Dear Mr. Bingham:

Tierra West LLC, on behalf of the McDonalds Corporation, requests approval of the Grading Plan prepared by Adams Engineering for the above referenced site. The site lies within Krania Subdivision which is on the SE Corner of Volcano Road and 98th Street as shown on the attached zone atlas page. The original Grading and Drainage Plan and report were approved on December 01, 2006, Drainage file number K9/D31.

According to the approved Drainage Report dated October 18, 2006 the lot, (now the McDonalds site) was within Basin 1, which drained to a Type D inlet on site. The layout of the lot was changed but the site is still within Basin 1. For further analysis the McDonalds' lot was separated into additional basins as shown on the Drainage Plan prepared by Adams Engineering. Enclosed are the Basin Map, Weighted E Calculations and the Analysis Point Map which are included in the approved Drainage Report and revised drop inlet calculations for reference. On the approved Grading and Drainage Plan, Basin 1 generated 7.35 cfs to drain to the Type D inlet designated by Analysis Point 1 in the approved report. Due to the changes in the layout the driveway into the development (0.77 cfs) and Basins 2 (1.22cfs), 3 (0.86 cfs), and 4 (0.79 cfs) will now drain to an on-site Type D inlet designated by Analysis Point 2 (AP#2) in the approved report. The inlet, AP #2, has a capacity for 7.83 cfs to drain to it. The original report had 2.91 cfs entering the inlet. The 2.91 cfs together with the additional McDonalds basins and driveway is a total of 5.78 cfs. The inlet still has capacity.

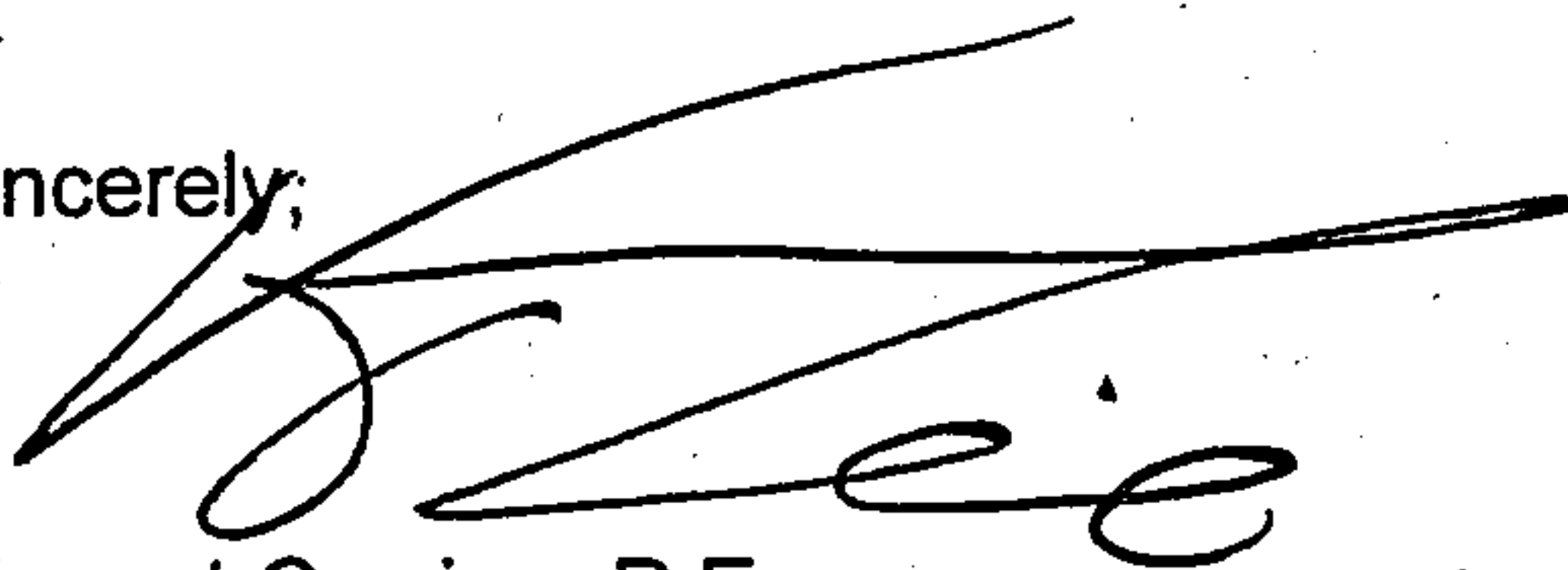


5571 Midway Park Place NE Albuquerque, NM 87109
(505) 858-3100 Fax (505) 858-1118 1-800-245-3102
tierrawestllc.com

Basins 1 (1.54 cfs) and 5 (0.35 cfs) will continue to drain to the on-site Type D inlet designated by Analysis Point 1 in the approved report. The original Grading and Drainage Plan allowed for 7.35 cfs to drain to the inlet. The drainage to the inlet will be decreased to 3.61 cfs.

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

Sincerely,

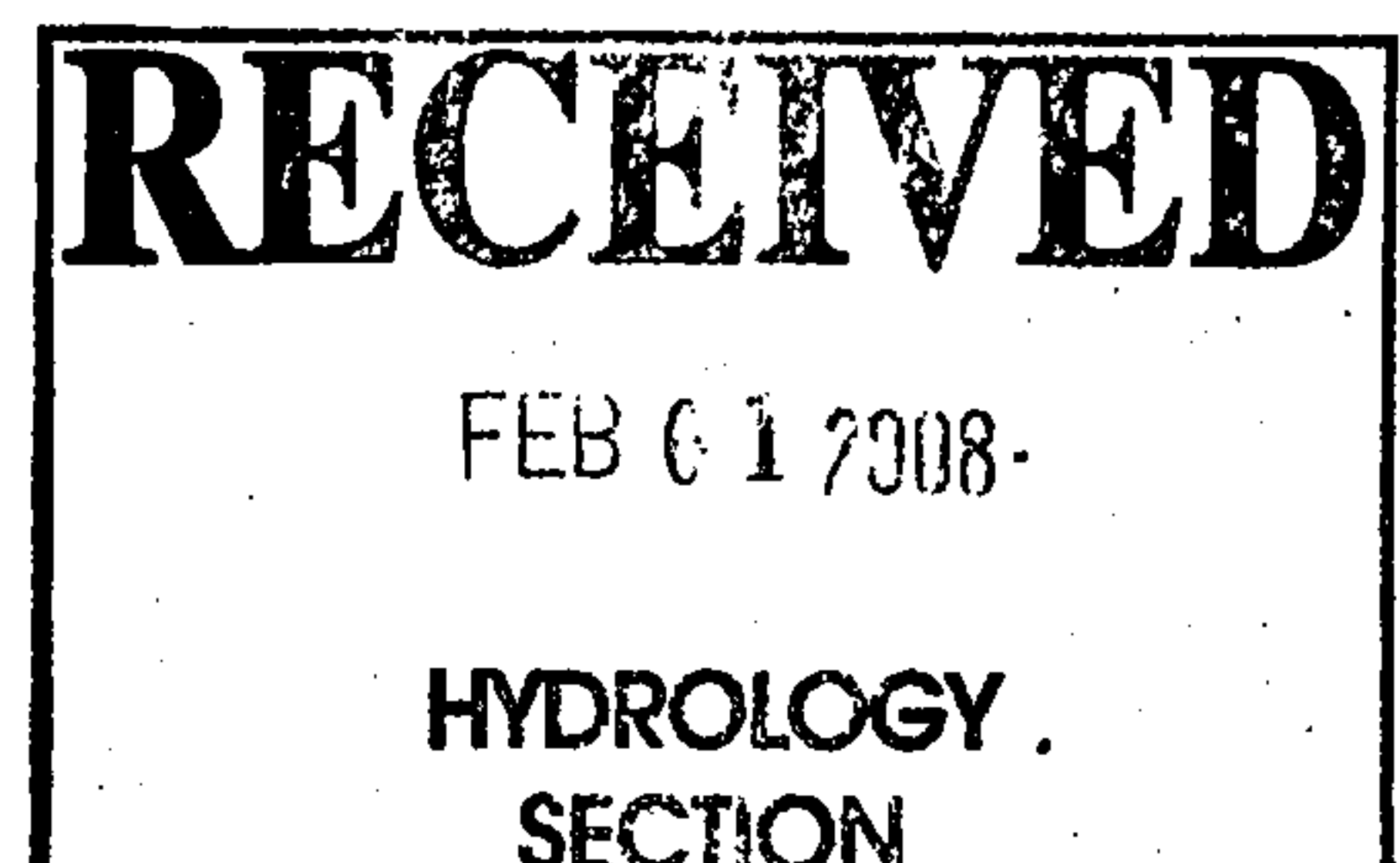


Vincent Carrica, P.E.

Enclosure/s

JN: 28002
VC/sa/cia

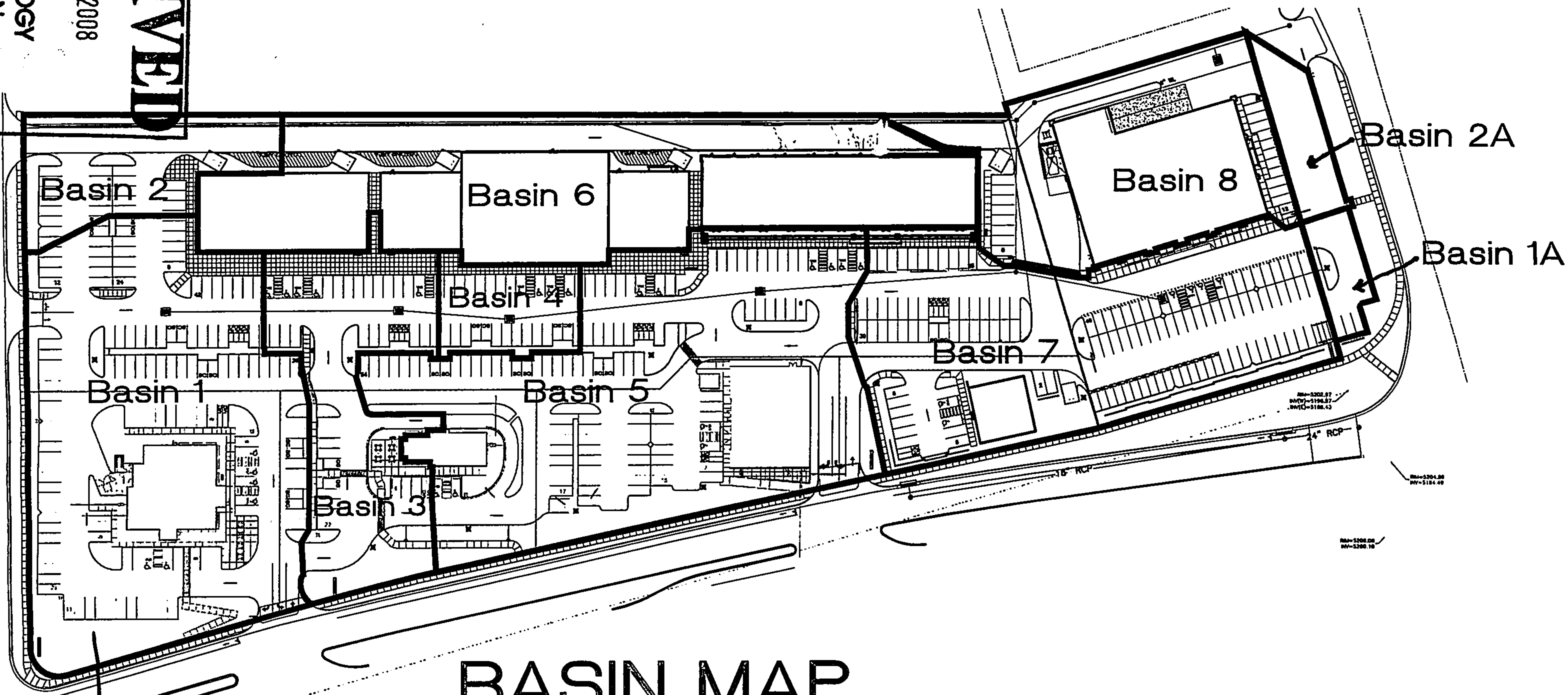
Z:\2008: 28002 Brad Bingham Grading Approval 02-01-08.doc



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FEB 01 2008

HYDROLOGY
SECTION

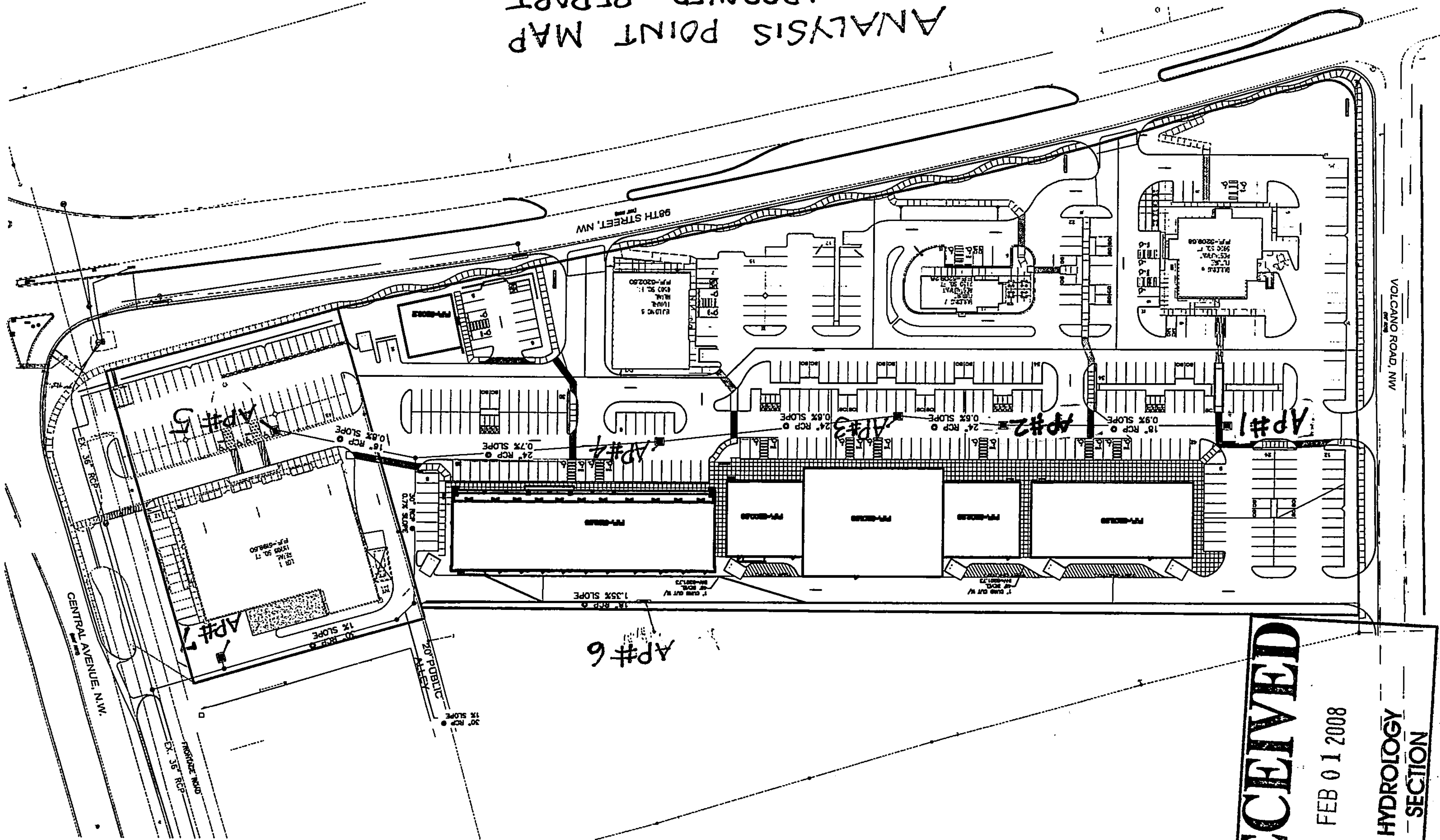


BASIN MAP

→ BASIN 1 Q_{100yr} 7.35cfs

BASIN MAP FROM APPROVED DRAINAGE REPORT K9/D31

ANALYSIS POINT MAP
FROM APPROVED MAP



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FEB 01 2008

HYDROLOGY
SECTION

Single 'D' Drop Inlet
EFFECTIVE AREA ASSUMING A 50% CLOGGING FACTOR

SINGLE 'D':

Area at the grate:

$$\begin{aligned} L &= 38.375'' - 7 \left(\frac{1}{2}'' \text{ middle bars} \right) \\ &= 34.875'' \\ &= 2.906' \end{aligned}$$

$$\begin{aligned} W &= 25.5'' - 13 \left(\frac{1}{2}'' \text{ middle bars} \right) \\ &= 19'' \\ &= 1.583' \end{aligned}$$

$$\begin{aligned} \text{Area} &= 1.583' \times 2.906' \\ &= 4.601 \text{ ft}^2 \end{aligned}$$

$$\begin{aligned} \text{Effective Area} &= 4.601 \times 0.5 (4.601) \\ &= 2.30 \text{ ft}^2 \end{aligned}$$

$$\text{Effective Area} = 2.30 \text{ ft}^2$$

Orifice Equation

$$Q = CA \sqrt{2gH}$$

$$Q = 0.6 \times 2.30 \times \sqrt{2 \times 32.2 \times 0.5}$$

$$Q = 7.83 \text{ cfs}$$

Total Capacity

$$Q = 7.83 \text{ cfs}$$

Results From Previously Approved Report

AP# 1

$$\text{Flow required} = 7.35 \text{ cfs} < 7.83 \text{ cfs}$$

AP# 2

$$\text{Flow required} = 2.91 \text{ cfs} < 7.83 \text{ cfs}$$

**Results due to changes on
McDonalds Lot**

AP# 1

$$\text{Flow required} = 3.61 \text{ cfs} < 7.83 \text{ cfs}$$

Single D inlet has capacity

$$\text{Flow required} = 5.78 \text{ cfs} < 7.83 \text{ cfs}$$

Single D inlet has capacity

