

CITY OF ALBUQUERQUE



April 16, 2007

Verlyn A. Miller, P.E.
Miller Engineering Consultants
95 Highway 244 North
Edgewood, NM 87015

Re: Ronald McDonald House, Engineer's Stamp dated 4-2-07, (J16/D18)

Dear Mr. Miller,

Based upon the information provided in your submittal received April 3, 2007, the above referenced plan is approved for Building Permit. Please attach a copy of this letter and the approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

This project will also require a National Pollutant Discharge Elimination System (NPDES) permit. Inquiries regarding this permit should be directed to Sertil Kandar at 768-3645.

P.O. Box 1293

If you have any questions or need additional information, feel free to contact me at 924-3990.

Sincerely,

Albuquerque

New Mexico 87103

Jeremy Hoover, P.E.
Senior Engineer
Hydrology Section
Development and Building Services

www.cabq.gov

cc: file J16/D18
Lynn Mazur, P.E., C.F.M., AMAFCA

Hoover, Jeremy

From: Lynn Mazur [lmazur@amafca.org]
Sent: Tuesday, April 10, 2007 10:56 AM
To: 'Hoover, Jeremy'
Cc: vmiller@mecnm.com; rgomez@mecnm.com
Subject: RE: per File: J16/D18 Ronald McDonald House

I would like a full size copy of the plan for the AMAFCA file.

AMAFCA approves the plan with respect to runoff to the North Diversion Channel (NDC). However, I would like to make the following recommendations (which are not conditions of approval):

1. Jerry Lovato, AMAFCA Drainage Engineer, and I visited the site on April 10, 2007. Jerry recalls speaking to someone at UNM facility maintenance about the arroyo adjacent to the site. There is some erosion where the arroyo spills over the embankment just east of the NDC. There were some concrete panels out there today where it appears that UNM is trying to shore up the embankment to mitigate the erosion. It does not look like the work has been completed since the panels do not extend to the toe of the embankment. The engineer should recommend that this work be completed before storm season.
2. We saw evidence from yesterday's rain where the arroyo flow over the embankment does not reach the NDC rundown. It runs to the south along the toe, then appears to just pond. Jerry said that there had been a V-ditch across the maintenance road to get the runoff to the rundown, but that has been filled in. The engineer might suggest that UNM regrade the swale at the toe of the embankment and provide some type of conveyance to get the flow to the NDC rundown.
3. I could not tell from the drawing attached to the email how the onsite detention pond was draining. AMAFCA recommends some riprap on the pond overflow section and in the arroyo for a short distance downstream.

AMAFCA

Lynn M. Mazur, P.E., C.F.M.
Development Review Engineer
phone: (505) 884-2215
fax: (505) 884-0214
www.amafca.org

From: Hoover, Jeremy [mailto:NHoover@cabq.gov]
Sent: Monday, April 09, 2007 11:46 AM
To: lmazur@amafca.org
Subject: FW: per File: J16/D18 Ronald McDonald House

Lynn,

A Ronald McDonald House is going up adjacent to the UNM north Golf Course north of Tucker just east of the KNME building on the east side of the channel. Here are some supplementary drawings I was sent. There is some detention planned.

Think I copied you on the last letter. Basically said that AMAFCA needs to approve because it is next to the Arroyo.

Given the distance, the engineer claims that impact to the arroyo would be negligible and that AMAFCA approval should not be necessary. Do you want to see the plan for AMAFCA approval?

Jeremy

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No virus found in this incoming message.

Checked by AVG Free Edition.

Version: 7.5.446 / Virus Database: 269.0.0/752 - Release Date: 4/8/2007 8:34 PM

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No virus found in this outgoing message.

Checked by AVG Free Edition.

Version: 7.5.446 / Virus Database: 269.0.0/754 - Release Date: 4/9/2007 10:59 PM

4/16/2007



MILLER ENGINEERING CONSULTANTS

Engineers • Planners

April 2, 2007

Mr. Jeremy Hoover, P.E.
City of Albuquerque – Hydrology Section
P.O. Box 1293
Albuquerque, NM 87103

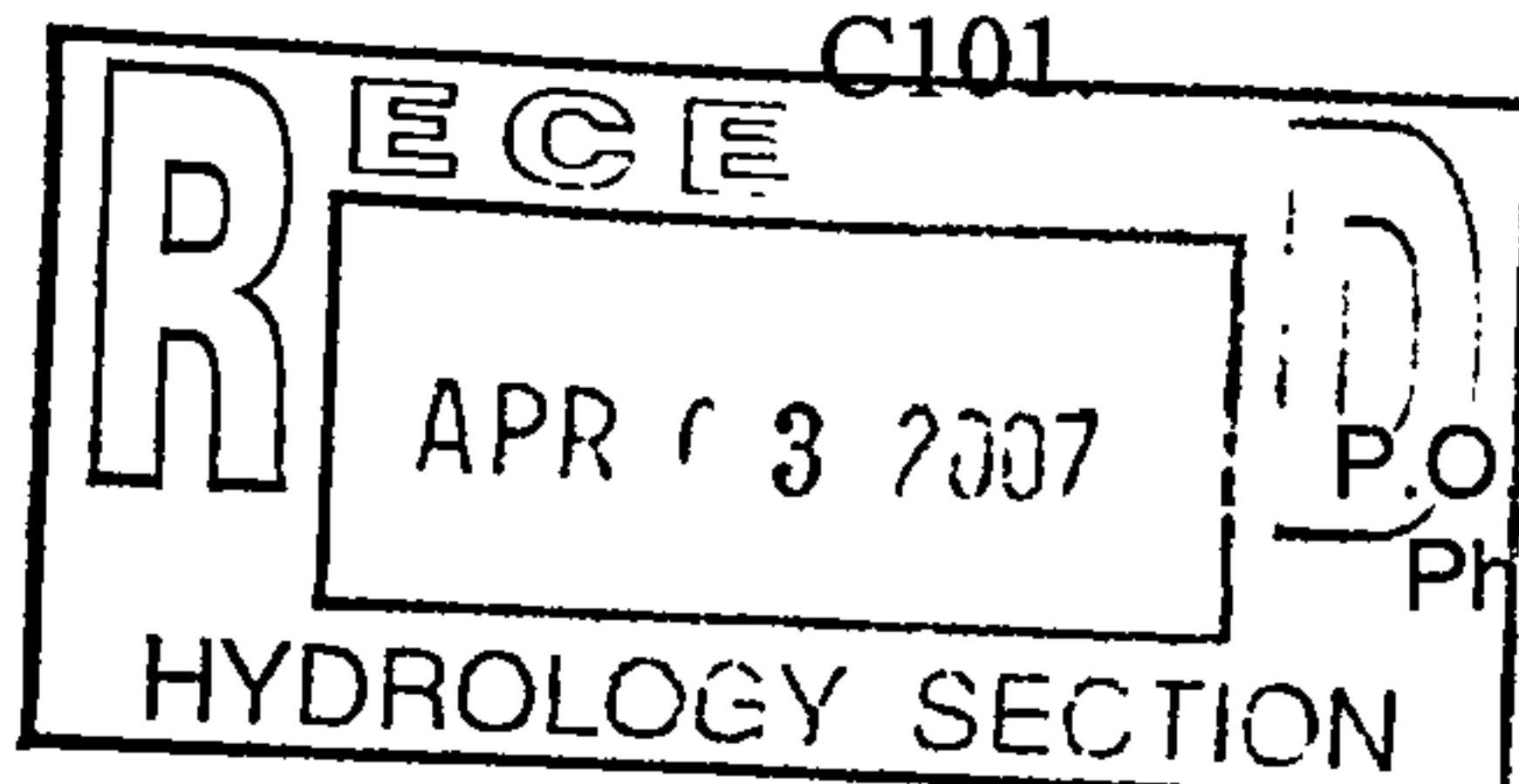
RE: Ronald McDonald House Expansion (J16/D18)

Dear Mr. Hoover:

This letter is in response to your letter dated March 15, 2007 outlining your comments for the above referenced grading and drainage plan.

We have addressed the comments outlined in your letter as follows:

1. Comment #1 - the F.I.R.M. panel has been included on Sheet C-101, the proposed project is not within a designated flood plain.
2. Comment #2 – a permanent benchmark has been referenced as shown on Sheet C-101, keyed note #8.
3. Comment #3 – the land treatment percentages under “Proposed Conditions” have been revised to depict actual percentages rather than acreages. The total site area is 1.15 acres as referenced under existing and proposed conditions.
4. Comment #4 – the land treatments for the hydrology calculations have been revised to reflect no area in land treatment “A” under fully developed conditions as shown on Sheet C-101.
5. Comment #5 – keyed note 3 has been revised to reflect the correct number, which is City of Albuquerque Standard Drawing 2206 as shown on Sheet C-101.
6. Comment #6 – keyed note 1 has been revised and references a standard curb & gutter detail as shown on Sheet C-102. Keyed note 2 has been revised to reflect the correct standard drawing number as shown on Sheet C-101.
7. Comment #7 – a 6-inch standard curb & gutter detail has been added to Sheet C-102, the City of Albuquerque standard curb & gutter is no longer referenced in keyed note 1, Sheet C101.




P.O. Box 520 • 95 SR 344, Suite 2 • Edgewood, New Mexico 87015
Phone (505) 286-7771 • Fax (505) 286-9026 • www.mecnm.com

8. Comment #8 – as per our telephone conversation last week, we have provided you with additional information showing the proposed site relative to AMAFCA's North Diversion Channel. The additional information was in the form of an e-mail sent on 3/29/07. We feel that due to the distance and existing topography between the site and the North Diversion Channel, storm water runoff from the proposed site will not impact the channel.

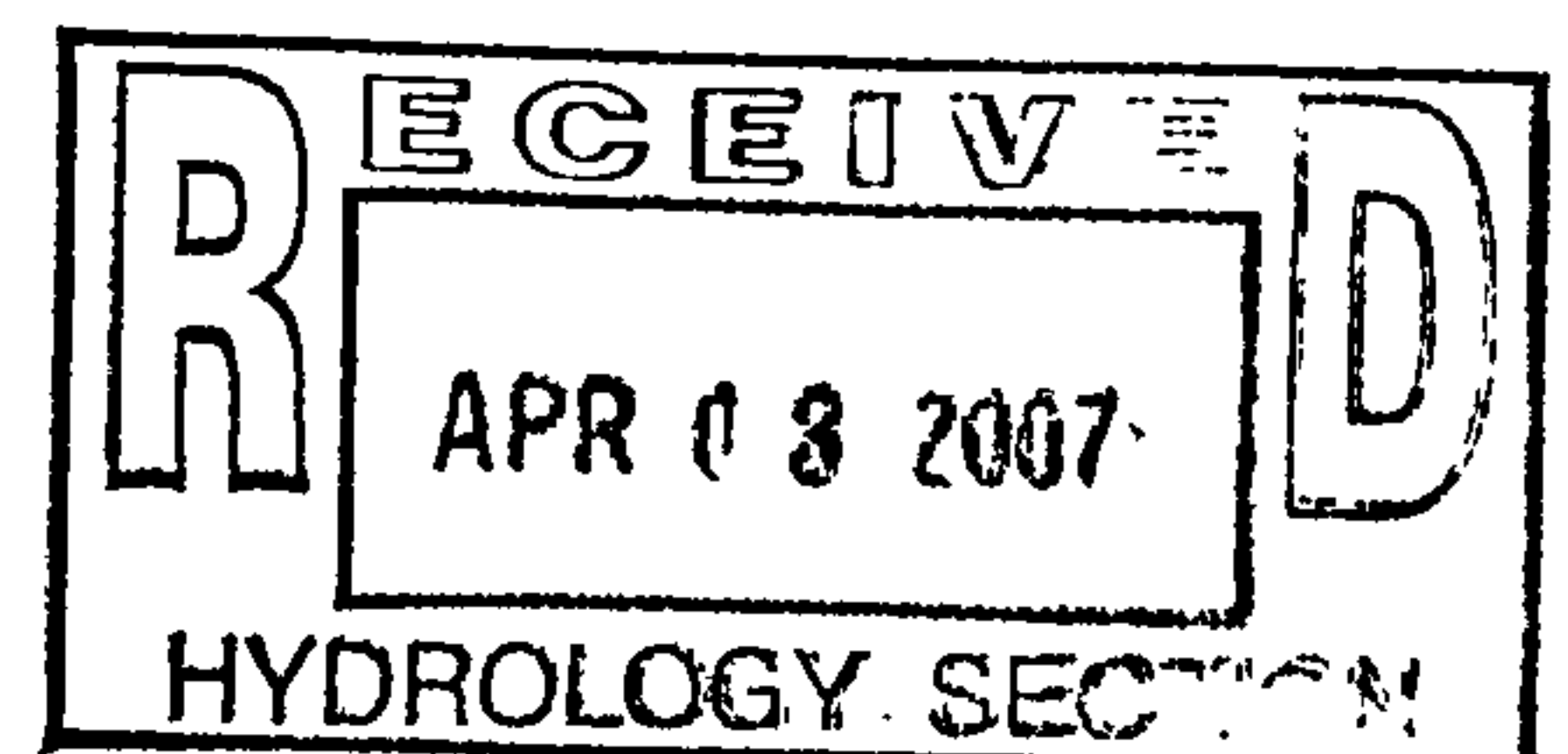
Thank you for your timely review, and please do not hesitate to call me at 505.286.7771 if you have any questions.

Sincerely,

MILLER ENGINEERING CONSULTANTS, INC.



Ryan D. Gomez
Project Manager



DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(Rev. 01/06)

PROJECT TITLE: RONALD McDONALD HOUSEZONE MAP/DRG. FILE # 5-16/DO18

DRB#: _____ EPC#: _____

WORK ORDER#: _____

LEGAL DESCRIPTION: SECTION 15 & 16, TOWNSHIP 10 N, RANGE 3E NMPMCITY ADDRESS: 11011 YALE BLVD., SEENGINEERING FIRM: MILLER ENGINEERING CONSULTANTSADDRESS: 3500 COMANCHE, NE BLDG. FCITY, STATE: ALBUQUERQUE, NM 87107CONTACT: RYAN GOMEZPHONE: 888-7500ZIP CODE: 87107OWNER: RONALD McDONALDADDRESS: 11011 YALE BLVD. NECITY, STATE: ALBUQUERQUE, NMCONTACT: SANDY MANNPHONE: 842-8960ZIP CODE: 87106ARCHITECT: NCA ARCHITECTSADDRESS: 1306 RIO GRANDE BLVD.CITY, STATE: ALBUQUERQUE, NMCONTACT: BOB CALVANIPHONE: 268-6954ZIP CODE: 87104SURVEYOR: JEFF MORTENSEN & ASSOC.ADDRESS: 6010-B MIDWAY PARK BLVD. NECITY, STATE: ALBUQUERQUE, NMCONTACT: CHARLES CALA JR.PHONE: 345-4250ZIP CODE: 87109

PROFESSIONAL LICENSED SURVEYOR SIGNATURE

LICENSE NO.

DATE

CONTRACTOR: _____

ADDRESS: _____

CITY, STATE: _____

CONTACT: _____

PHONE: _____

ZIP CODE: _____

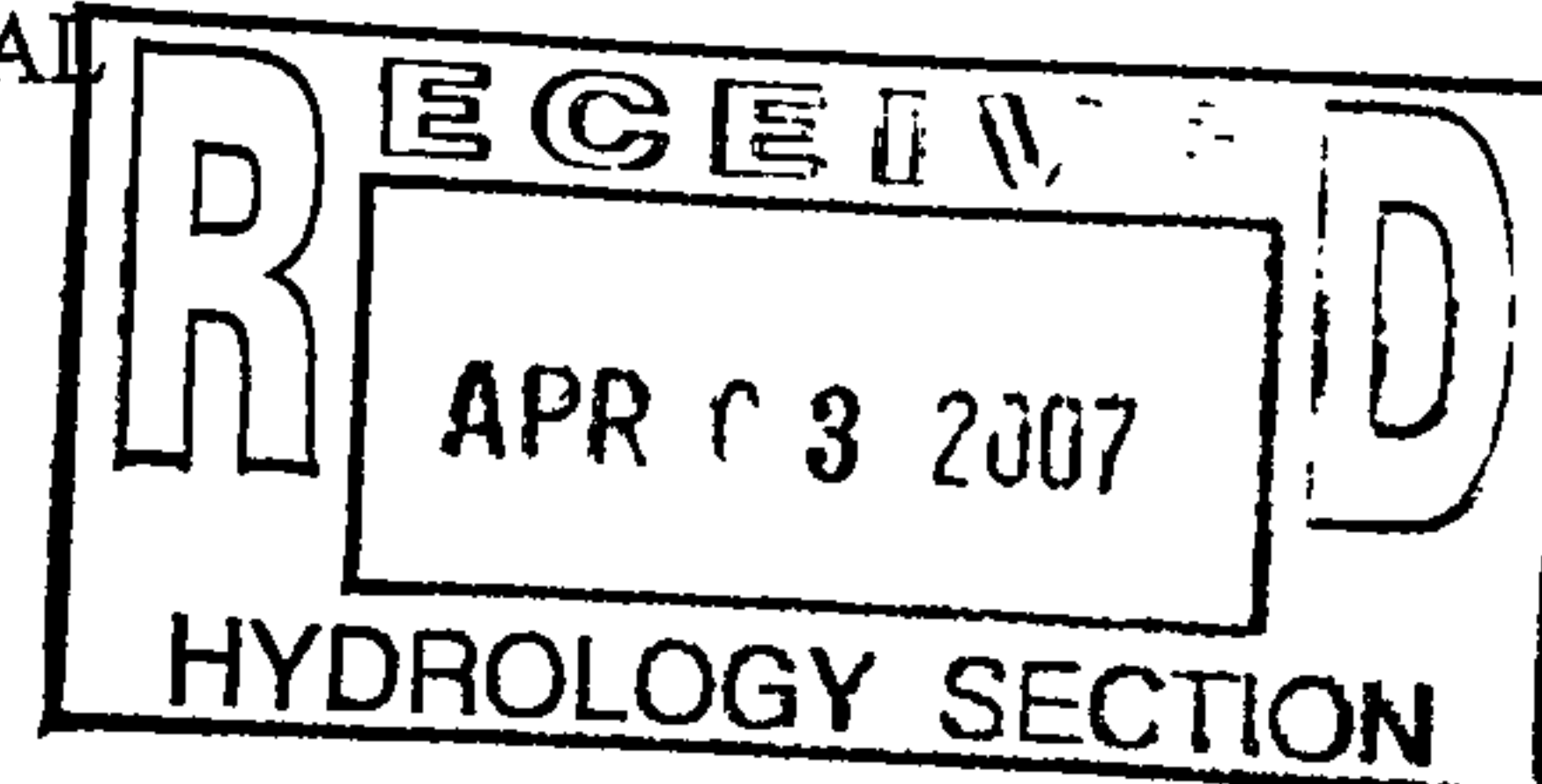
TYPE OF SUBMITTAL:

- ☐ 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/ARCHITECT CERT (TCL)
☐ ENGINEER/ARCHITECT (DRB SITE PLAN)
☐ OTHER

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 PROVIDEDSUBMITTED BY: Ryan GomezDATE: 4/2/07

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 define 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.

CITY OF ALBUQUERQUE



March 15, 2007

Verlyn A. Miller, P.E.
Miller Engineering Consultants
95 Highway 244 North
Edgewood, NM 87015

Re: Ronald McDonald House Expansion, Engineer's Stamp dated 3-8-07, (J16/D18)

Dear Mr. Miller,

Based on the information contained in your submittal received on March 9, 2007, there are some issues that must be revised prior to permit approval. Those items are detailed below.

1. Please cite and / or include the appropriate F.I.R.M. panel and state whether or not the subject site is located within a designated flood plain.
2. Please reference the permanent benchmark from which the temporary benchmark parameters were derived.
3. The land treatments proportions under "Proposed Development" add to 115 percent. It appears that these values are intended to refer to the actual acreages, not percentages. Is the total site area 1.07 acres, 1.077 acres, or 1.15 acres? The plan is inconsistent on this point.
4. There is no land treatment 'A' under developed conditions.
5. There is no standard drawing 2106 as referenced in keyed note 3.
6. Your keyed notes" 1 and 2 refer to standard drawings 2415B and 2415A for standard curb and header curb respectively. Drawing 2415A is for standard curb and gutter and 2415B is for header curb.
7. The spot elevations given for top of curb and flow line indicate that 6-inch curb is desired. Standard curb (2415A) has an 8-inch rise. Please either revise the curb / flow line spot elevations, or eliminate the reference to standard drawing 2415A and provide a cross section detail for the proposed curb and gutter elements.
8. Given that the North Diversion Channel is an AMAFCA owned and maintained facility, their approval will be a prerequisite to the issuance of any permits.

If you have any questions or need additional information, feel free to contact me at 924-3990.

Sincerely,

Jeremy Hoover, P.E.
Senior Engineer
Hydrology Section
Development and Building Services

cc: file J16/D18
Lynn Mazur, P.E., C.F.M., AMAFCA

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

**RONALD McDONALD HOUSE
PHASE II EXPANSION
ALBUQUERQUE, NEW MEXICO**

Supplemental Drainage Calculations

March 8, 2007



Prepared For: **NCA Architects**

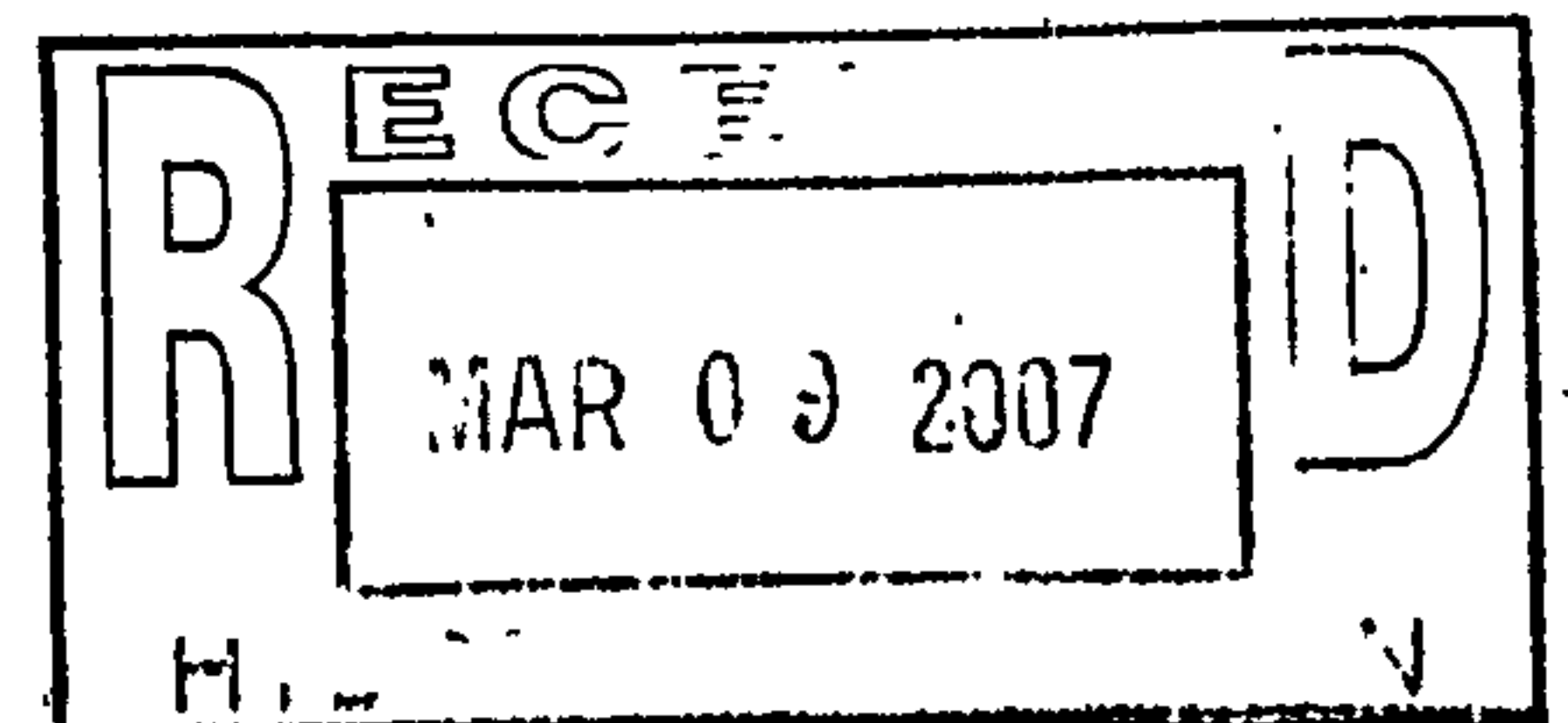
Prepared By:



MILLER ENGINEERING CONSULTANTS

Engineers • Planners

**3500 Comanche NE, Building F
Albuquerque, New Mexico 87107
Phone: (505) 888-7500
Fax: (505) 888-3800**



Worksheet for Broad Crested Weir - 1

SPILLWAY

Project Description

Flow Element: Broad Crested Weir
Solve For: Headwater Elevation

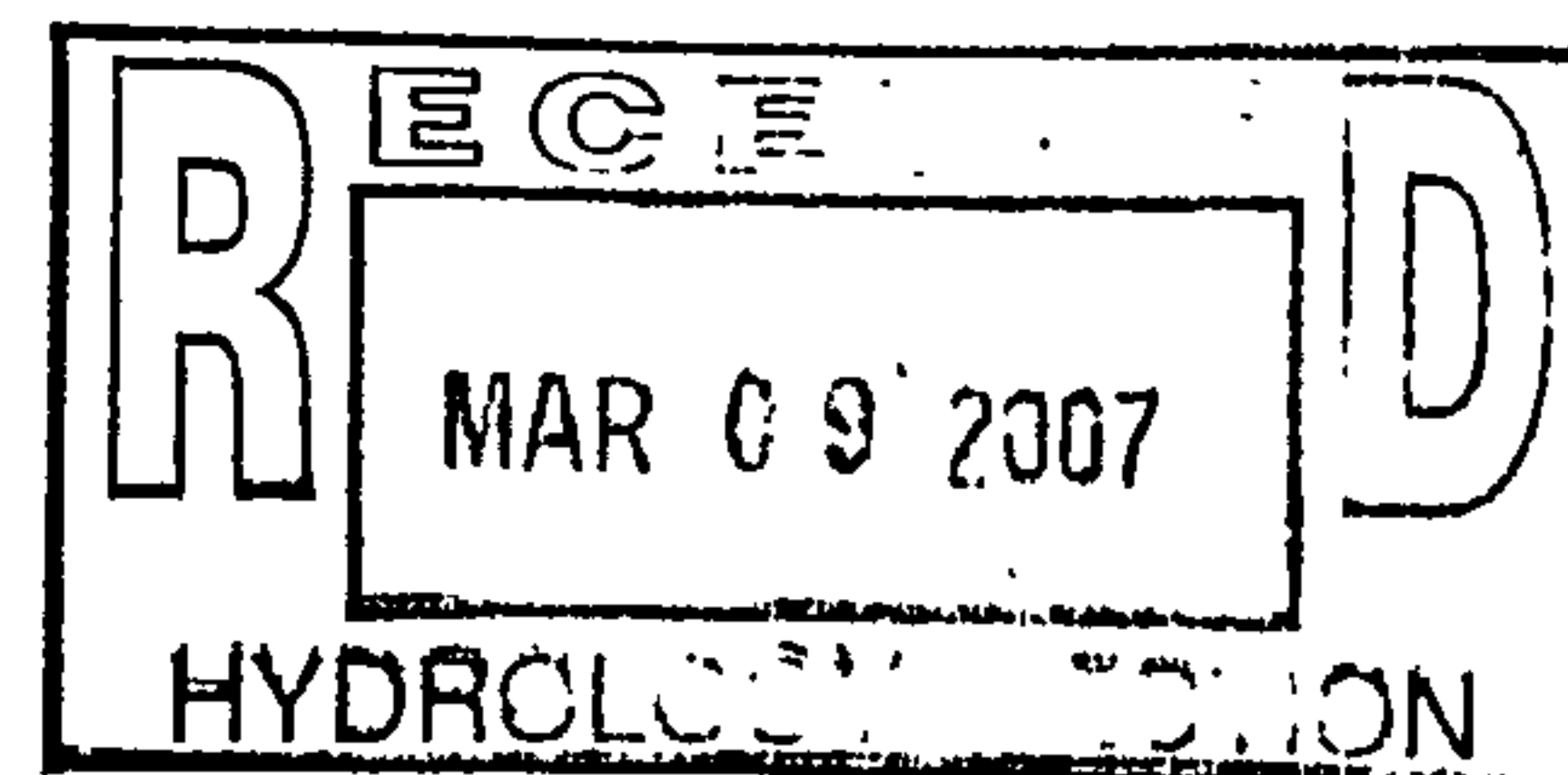
Input Data

Discharge: 4.53 ft³/s
Crest Elevation: 5149.00 ft
Tailwater Elevation: 5149.10 ft
Crest Surface Type: Gravel
Crest Breadth: 5.00 ft
Crest Length: 5.00 ft

Results

Headwater Elevation: 5149.48 ft
Headwater Height Above Crest: 0.48 ft
Tailwater Height Above Crest: 0.10 ft
Weir Coefficient: 2.69 US
Submergence Factor: 1.00
Adjusted Weir Coefficient: 2.69 US
Flow Area: 2.42 ft²
Velocity: 1.87 ft/s
Wetted Perimeter: 5.97 ft
Top Width: 5.00 ft

TOP OF POND ELEVATION = 5149.50



Worksheet for Circular Pipe - 1*STORM DRAIN PIPE***Project Description**

Flow Element: Circular Pipe
Friction Method: Manning Formula
Solve For: Normal Depth

Input Data

Roughness Coefficient: 0.013
Channel Slope: 0.01000 ft/ft
Diameter: 2.00 ft
Discharge: 10.13 ft³/s

Results

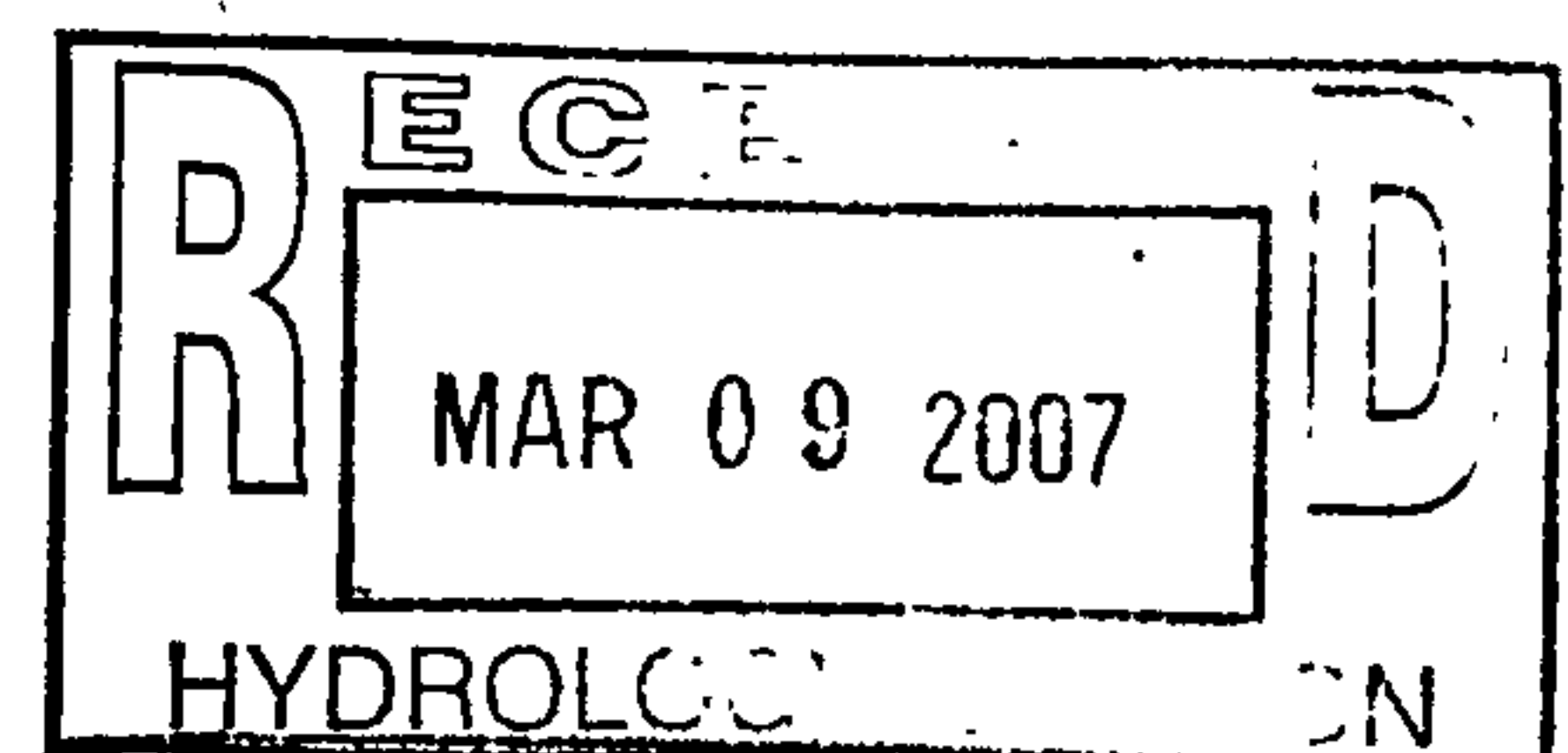
Normal Depth: 0.94 ft
Flow Area: 1.45 ft²
Wetted Perimeter: 3.02 ft
Top Width: 2.00 ft
Critical Depth: 1.14 ft
Percent Full: 46.9 %
Critical Slope: 0.00522 ft/ft
Velocity: 7.00 ft/s *RECAP*
Velocity Head: 0.76 ft
Specific Energy: 1.70 ft
Froude Number: 1.45
Maximum Discharge: 24.33 ft³/s
Discharge Full: 22.62 ft³/s
Slope Full: 0.00201 ft/ft
Flow Type: SuperCritical

GVF Input Data

Downstream Depth: 0.00 ft
Length: 0.00 ft
Number Of Steps: 0

GVF Output Data

Upstream Depth: 0.00 ft
Profile Description: N/A
Profile Headloss: 0.00 ft
Average End Depth Over Rise: 0.00 %
Normal Depth Over Rise: 0.00 %
Downstream Velocity: 0.00 ft/s



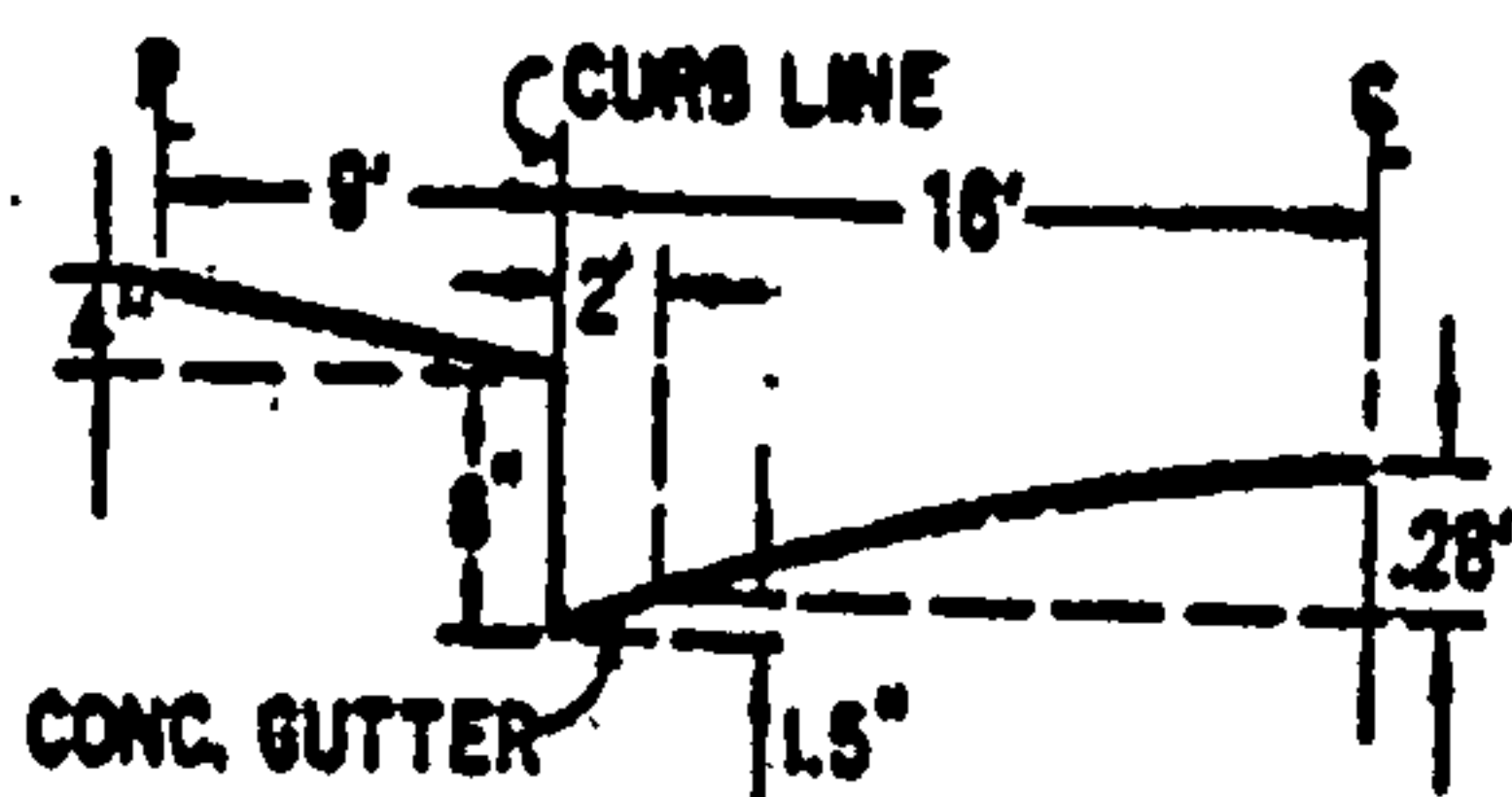
Chapter 22 - Drainage, Flood Control and Erosion Control

GRATING CAPACITIES FOR TYPE DOUBLE

"C," AND "D"



GRATING & GUTTER PLAN



TYPICAL HALF STREET SECTION
(ABOVE BASIN)

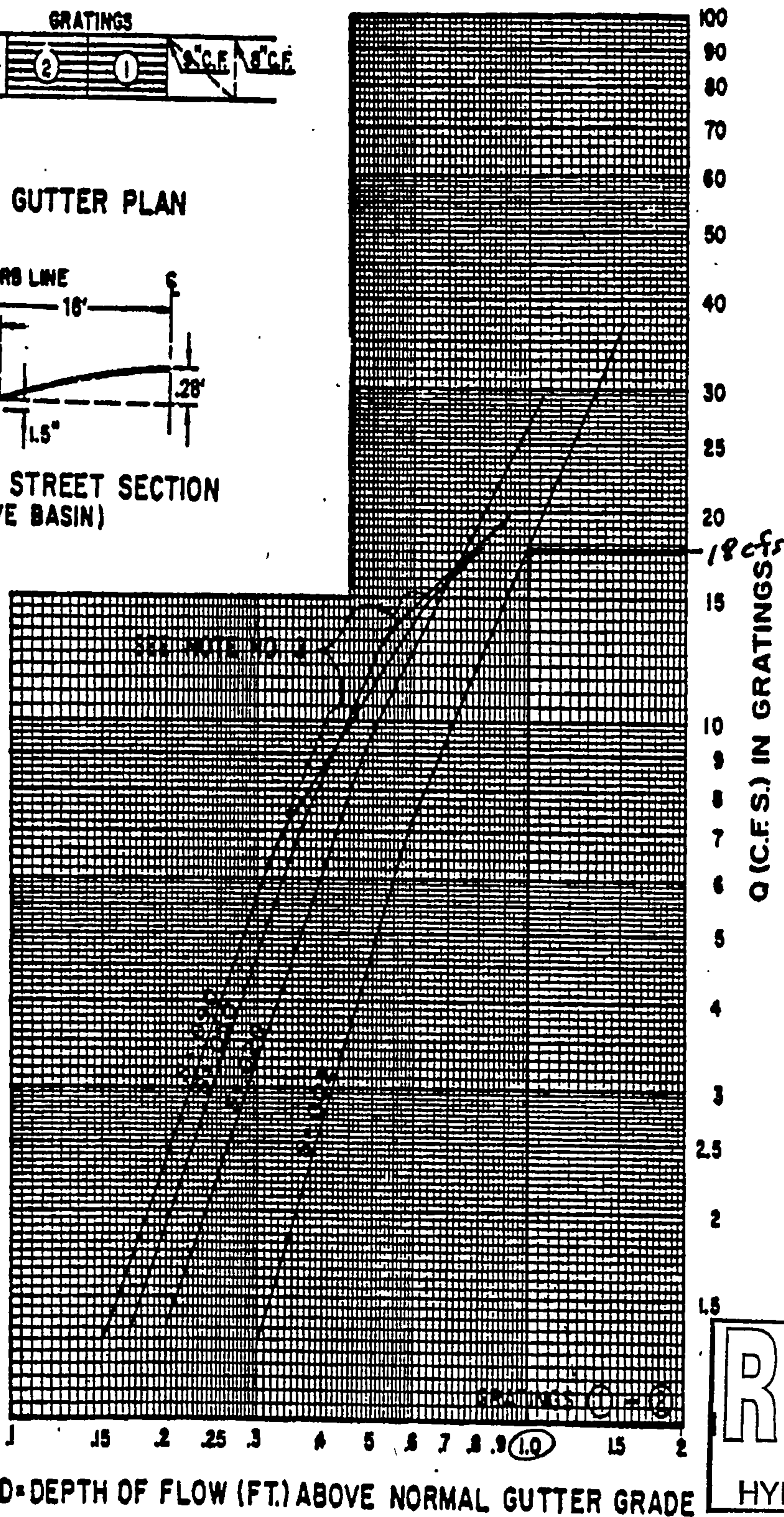


PLATE 22.3 D-6

$$D = 1', Q_{CAP} = 18 \text{ cfs} > 10.13 \text{ cfs} \therefore \text{O.K.}$$

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(Rev. 01/06)

PROJECT TITLE: RONALD McDonald House

ZONE MAP/DRG. FILE #

DRB#: 1 EPC#: WORK ORDER#: LEGAL DESCRIPTION: Section 15 and 16, Township 10 North, Range 3 East N.M.P.M.
CITY ADDRESS: 11011 YALE Blvd, SEENGINEERING FIRM: Miller Engineering
ADDRESS: 3500 Comanche NE Bldg F
CITY, STATE: Albuquerque, NMCONTACT: Verlyn Miller
PHONE: (505) 888-7500
ZIP CODE: 87107OWNER: Ronald McDonald
ADDRESS: 11011 Yale Blvd. NE
CITY, STATE: Albuquerque, NMCONTACT: Sandy Mann
PHONE: (505) 842-8960
ZIP CODE: 87106ARCHITECT: NCA Architects
ADDRESS: 1306 Rio Grande Blvd.
CITY, STATE: Albuquerque, NMCONTACT: Bob Calvani
PHONE: (505) 268-6954
ZIP CODE: 87104SURVEYOR: Jeff Mortensen & Assoc.
ADDRESS: 6010-B Midway Park Blvd. NE
CITY, STATE: Albuquerque, NMCONTACT: Charles Cala Jr.
PHONE: (505) 345-4250
ZIP CODE: 87109

PROFESSIONAL LICENSED SURVEYOR SIGNATURE

LICENSE NO.

DATE

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

TYPE OF SUBMITTAL:

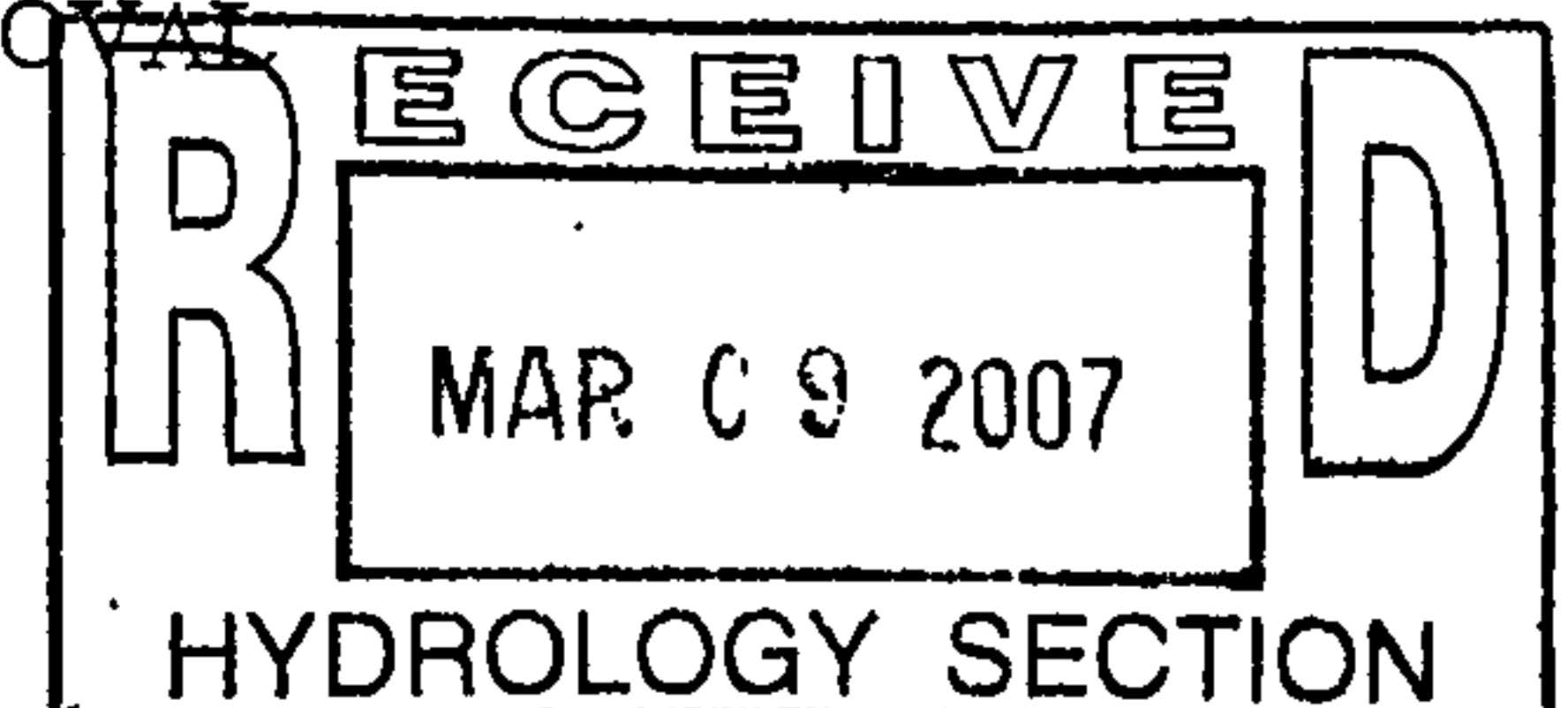
- ☐ DRAINAGE REPORT
☒ DRAINAGE PLAN 1st SUBMITTAL
☐ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT
☐ ENGINEER/ARCHITECT CERT (TCL)
☐ ENGINEER/ARCHITECT (DRB SITE PLAN)
☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SLA/FINANCIAL GUARANTEE RELEASE
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☐ S. DEV. FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
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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

SUBMITTED BY: DATE: 3/8/07

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 define 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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CITY OF ALBUQUERQUE



March 15, 2007

Verlyn A. Miller, P.E.
Miller Engineering Consultants
95 Highway 244 North
Edgewood, NM 87015

Re: Ronald McDonald House Expansion, Engineer's Stamp dated 3-8-07, (J16/D18)

Dear Mr. Miller,

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Sincerely,

Jeremy Hoover, P.E.
Senior Engineer
Hydrology Section
Development and Building Services

cc: file J16/D18
Lynn Mazur, P.E., C.F.M., AMAFCA

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

ONE STOP SHOP
CITY OF ALBUQUERQUE PLANNING DEPARTMENT
Development & Building Services

PAID RECEIPT

APPLICANT NAME Ronald McDonald House

AGENT Miller Eng.

ADDRESS 3500 Comanche

PROJECT & APP # _____

PROJECT NAME _____

\$ _____ 441032/3424000 Conflict Management Fee

\$ _____ 441006/4983000 DRB Actions

\$ _____ 441006/4971000 EPC/AA/LUCC Actions & All Appeals

\$ _____ 441018/4971000 Public Notification

\$ 50.00 441006/4983000 DRAINAGE PLAN REVIEW OR TRAFFIC IMPACT STUDY***
() Major/Minor Subdivision () Site Development Plan () Bldg Permit
() Letter of Map Revision () Conditional Letter of Map Revision
() Traffic Impact Study

\$ 50.00 TOTAL AMOUNT DUE

***NOTE: If a subsequent submittal is required, bring a copy of this paid receipt with you to avoid an additional charge.

DUPLICATE
City Of Albuquerque
Treasury Division

Counterreceipt.doc 6/21/04

3/9/2007 1:17PM LCC: AMV
RECEIPT# 00073968 WSH 006 TRANS# 0017
Account 441006 Fund 0110
Activity 4983000 TRSCCS
Trans Amt \$50.00
J24 Misc \$50.00
V2 \$50.00
CHANGE 10.00

Thank You