

# CITY OF ALBUQUERQUE



## Planning Department Transportation Development Services Section

June 8, 2011

Claudio Vigil, Registered Architect  
Claudio Vigil Architects  
1801 Rio Grande Blvd NW  
Albuquerque, NM 87104

Re: Certification Submittal for a Permanent Building Certificate of Occupancy (C.O.)  
for **Shoppes at Westbrook**, [C-13 / D003]  
**4601 Paradise Blvd. NW**  
Architect's Stamp Dated 06/06/11

Dear Mr. Vigil:

Based upon the information provided in your submittal received 06-07-11,  
Transportation Development has no objection to the issuance of a Permanent Certificate  
of Occupancy.

This letter serves as a "green tag" from Transportation Development for a  
Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

If you have any questions, please contact me at (505)924-3630.

Sincerely,

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

c: Engineer  
Hydrology file  
CO Clerk

PO Box 1293

Albuquerque

NM 87103

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



# DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 01/06 – KDM)

PROJECT TITLE: The Shoppes at Westpark ZONE MAP: C-13/2003  
DRB#: 05DRB-01050 1003763 EPC#: 04EPC 01715 WORK ORDER#: C-13-2

LEGAL DESCRIPTION: Tract 17-A-3, Eagle Ranch Subdivision  
CITY ADDRESS: 4601 Paradise Boulevard, N.W.

ENGINEERING FIRM: J. Arthur Blessen Engineering CONTACT: Art Blessen  
ADDRESS: 11930 Menaul Boulevard, N.E., Suite 109 PHONE: (505) 293-1477  
CITY, STATE: Albuquerque, NM ZIP CODE: 87112

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

ARCHITECT: Claudio Vigil Architects CONTACT: \_\_\_\_\_  
ADDRESS: 1801 Rio Grande Boulevard, N.W. PHONE: (505) 841-1113  
CITY, STATE: Albuquerque, NM ZIP CODE: 87104

SURVEYING FIRM: \_\_\_\_\_ LICENSED SURVEYOR: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

| PROFESSIONAL LICENSED SURVEYOR SIGNATURE | LICENSE NO. | DATE |
|------------------------------------------|-------------|------|
|------------------------------------------|-------------|------|

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

| TYPE OF SUBMITTAL:                                               | CHECK TYPE OF APPROVAL SOUGHT:                               |
|------------------------------------------------------------------|--------------------------------------------------------------|
| <input type="checkbox"/> DRAINAGE REPORT                         | <input type="checkbox"/> SIA/FINANCIAL GUARANTEE RELEASE     |
| <input type="checkbox"/> DRAINAGE PLAN 1 <sup>st</sup> SUBMITTAL | <input type="checkbox"/> PRELIMINARY PLAT APPROVAL           |
| <input type="checkbox"/> DRAINAGE PLAN RESUBMITTAL               | <input type="checkbox"/> S. DEV. PLAN FOR SUB'D APPROVAL     |
| <input type="checkbox"/> CONCEPTUAL G & D PLAN                   | <input type="checkbox"/> S. DEV. FOR BLDG. PERMIT APPROVAL   |
| <input type="checkbox"/> GRADING PLAN                            | <input type="checkbox"/> SECTOR PLAN APPROVAL                |
| <input type="checkbox"/> EROSION CONTROL PLAN                    | <input type="checkbox"/> FINAL PLAT APPROVAL                 |
| <input type="checkbox"/> ENGINEER'S CERT (HYDROLOGY)             | <input type="checkbox"/> FOUNDATION PERMIT APPROVAL          |
| <input type="checkbox"/> CLOMR/LOMR                              | <input type="checkbox"/> BUILDING PERMIT APPROVAL            |
| <input checked="" type="checkbox"/> TRAFFIC CIRCULATION LAYOUT   | <input checked="" type="checkbox"/> CERTIFICATE OF OCCUPANCY |
| <input checked="" type="checkbox"/> ENGINEER'S CERT (TCL)        | <input type="checkbox"/> GRADING PERMIT APPROVAL             |
| <input type="checkbox"/> ENGINEER'S CERT (DRB SITE PLAN)         | <input type="checkbox"/> PAVING PERMIT APPROVAL              |
| <input type="checkbox"/> OTHER-                                  | <input type="checkbox"/> WORK ORDER APPROVAL                 |
|                                                                  | <input type="checkbox"/> OTHER (SPECIFY)                     |

WAS A PRE-DESIGN CONFERENCE ATTENDED:

☐ YES

☒ NO

☐ COPY PROVIDED

DATE SUBMITTED: 6-7-11 BY: [Signature]

**HYDROLOGY  
SECTION**

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.





June 6, 2011

Traffic Engineer  
Development and Building Services  
600 Second St. N.W.  
Albuquerque, New Mexico

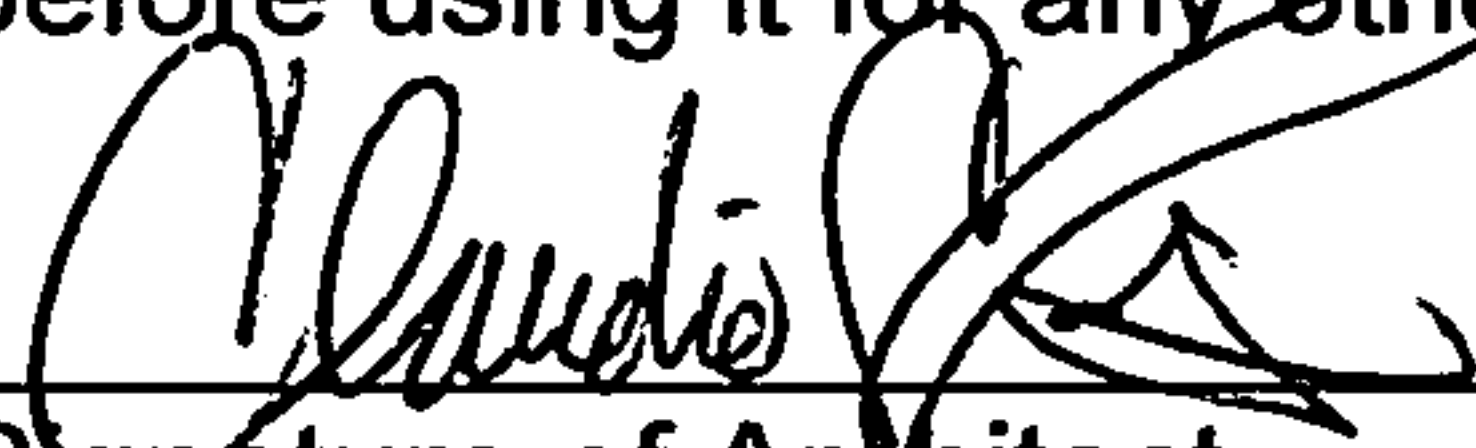
**RE: TRAFFIC CERTIFICATION - Submittal**  
**The Shoppes at Westpark – 4601 Paradise Boulevard, N.W.**  
**1510 Ellison Road, N.W.**

To whom it may concern:

I, Claudio Vigil, NM Registered Architect 1236, of the firm Claudio Vigil Architects, hereby certify that this project is in substantial compliance with and in accordance with the design intent of the approved TCL site plan and permit set. The record information documented and edited onto the approved TCL Site Plan has been obtained by Sandra Fairchild of the firm Claudio Vigil Architects. I further certify that I have personally visited the project site on February 14, 2011 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.

All work necessary to support the facility has been completed, and is in substantial compliance with the approved site development plan.

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the traffic aspects of this project. Those relying on the record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

  
\_\_\_\_\_  
Signature of Architect

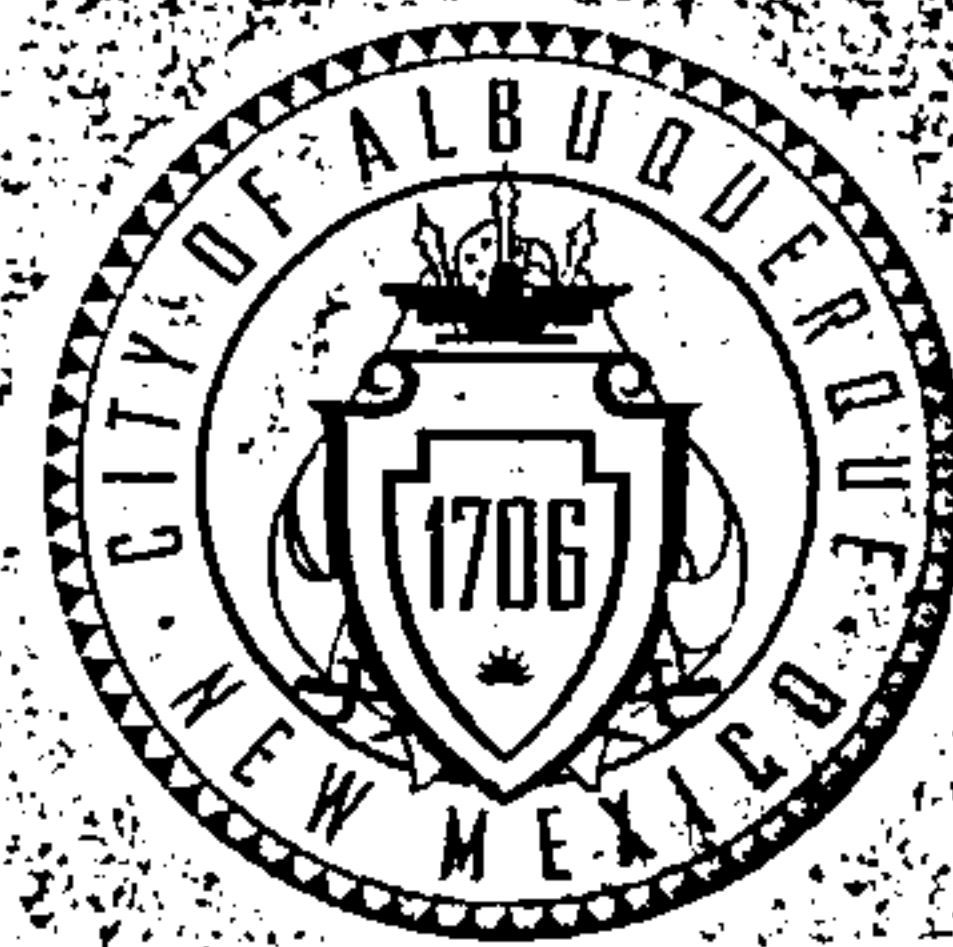
6/6/11  
Date

**ARCHITECT'S STAMP**





# CITY OF ALBUQUERQUE



April 19, 2011

John Arthur Blessen, P.E.  
**Blessen Engineering**  
2429 Zena Lona  
Albuquerque, NM 87112

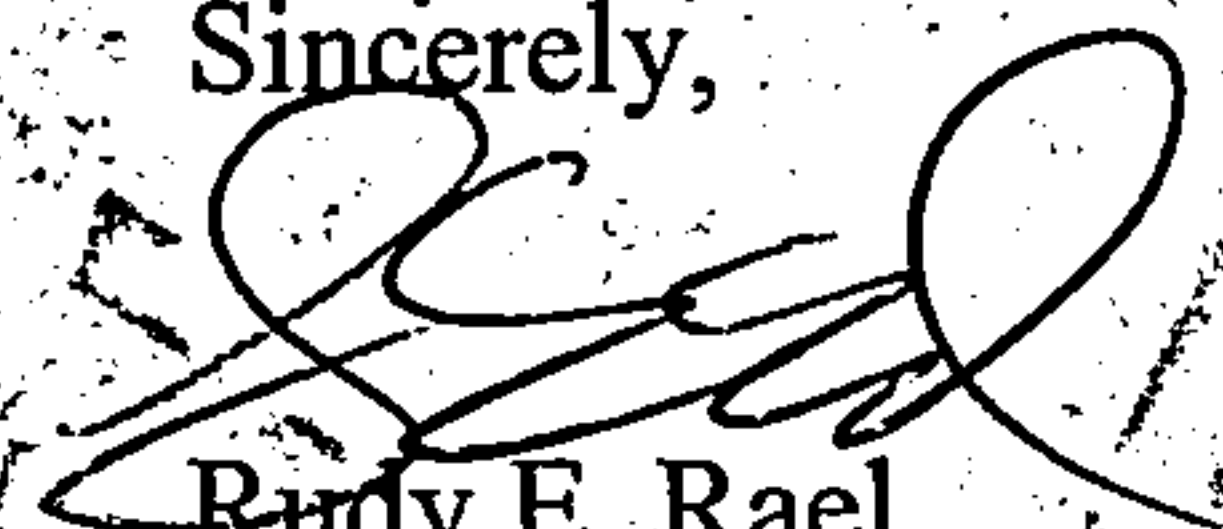
**Re: Ameri-Contractors Office Retail Complex. 4601 Paradise NW,  
Request for Permanent C.O. - Approved  
Engineer's Stamp dated: 04-26-06 (C-13/D003)  
Certification dated: 04/18/2011**

Dear Mr. Blessen,

Based upon the information provided in the Certification received 04-18-11, the above referenced Certification is approved for a release of a Permanent Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3977.

Sincerely,

  
Rudy E. Rael,  
Engineer Assistant—Hydrology Section  
Development and Building Services

C: CO Clerk—Katrina Sigala  
File

PO Box 1293

Albuquerque

NM 87103

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



**DRAINAGE AND TRANSPORTATION INFORMATION SHEET**  
(REV 12/2005)

PROJECT TITLE: AMERI-CONTRACTORS OFFICE RETAIL COMPLEX ZONE MAP: C-13-7 **DO03**  
DRB#: \_\_\_\_\_ EPC#: \_\_\_\_\_ WORK ORDER#: \_\_\_\_\_

LEGAL DESCRIPTION: TRACT 17-A-3 EAGLE RANCH ADDITION  
CITY ADDRESS: 4601 PARADISE BLVD.

ENGINEERING FIRM: J. ARTHUR BLESSEN ENGINEERING CONTACT: ARTHUR BLESSEN  
ADDRESS: 2429 ZENA LONA PHONE: 505-293-1477  
CITY, STATE: ALBUQUERQUE NM ZIP CODE: 87112

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

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

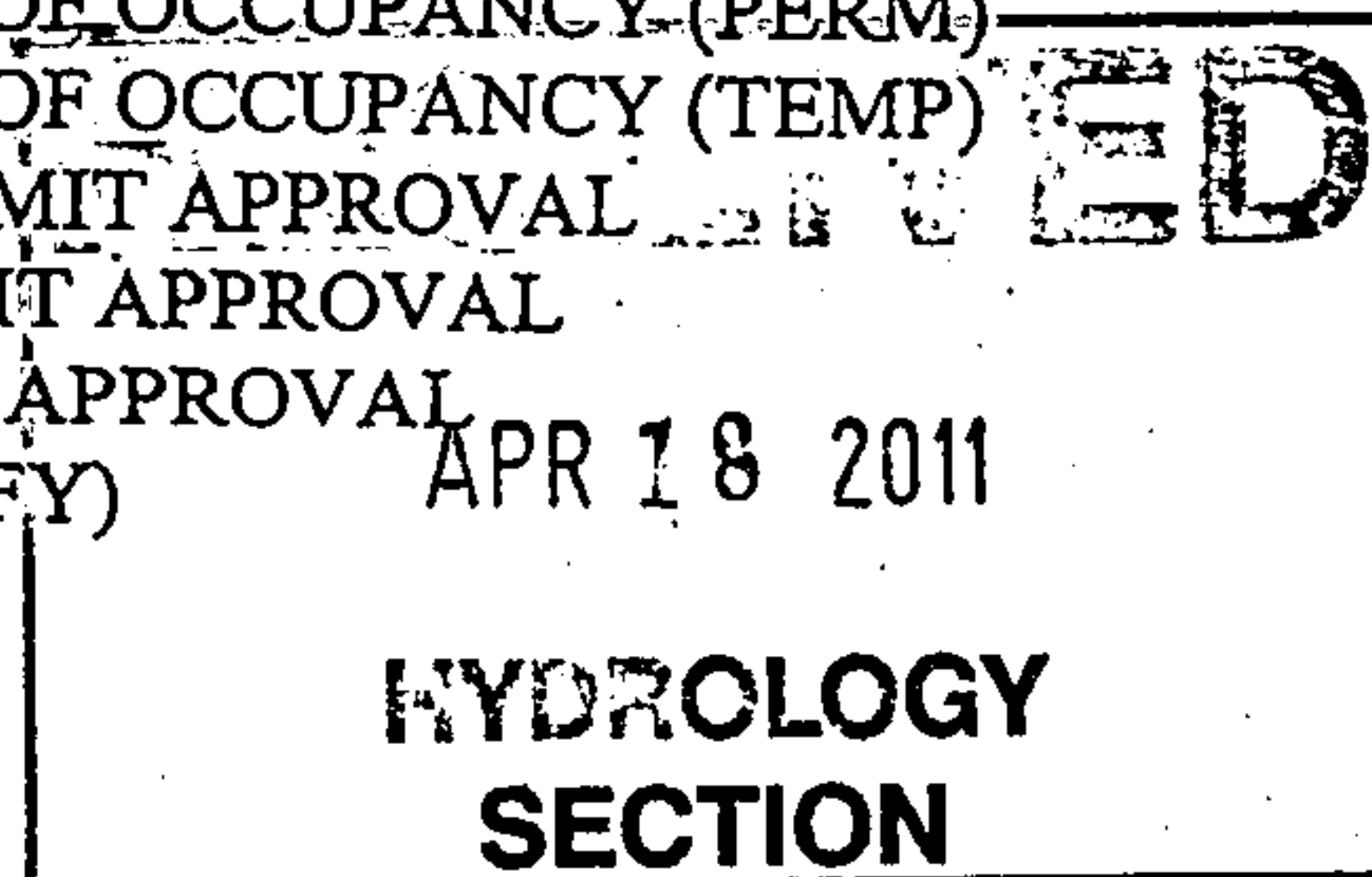
SURVEYOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

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

TYPE OF SUBMITTAL:  
\_\_\_\_ DRAINAGE REPORT  
\_\_\_\_ DRAINAGE PLAN 1<sup>st</sup> 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: 4-18-11 BY: Arthur Blesson

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.





CLAUDIO VIGIL ARCHITECTS

SANDRA M. FAIRCHILD  
Project Manager, LEED AP

1801 Rio Grande Blvd., NW  
Albuquerque, NM 87104  
505/842-1113  
FAX 505/842-1330  
sfairchild@claudiovigilarchitects.com

February 15, 2011

Traffic Engineer  
Development and Building Services  
600 Second St. N.W.  
Albuquerque, New Mexico

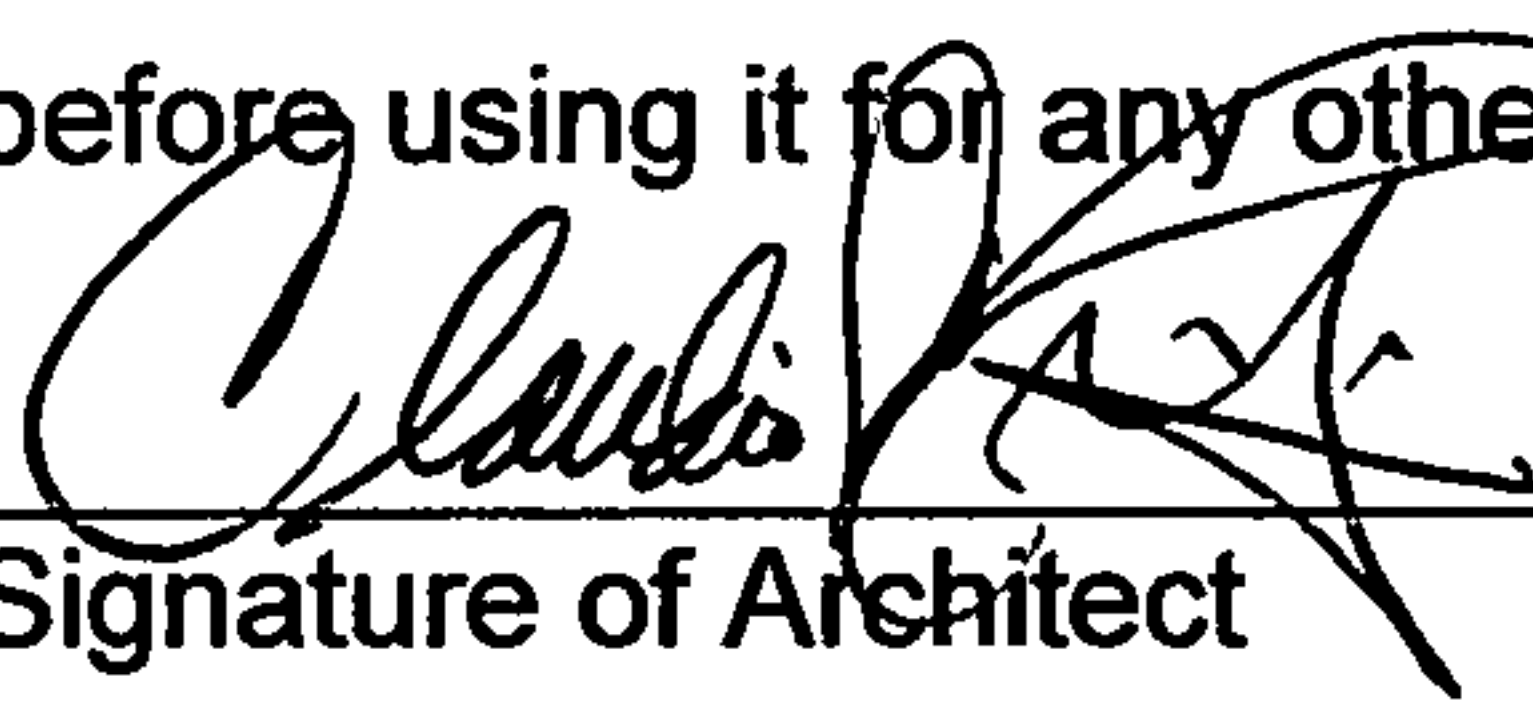
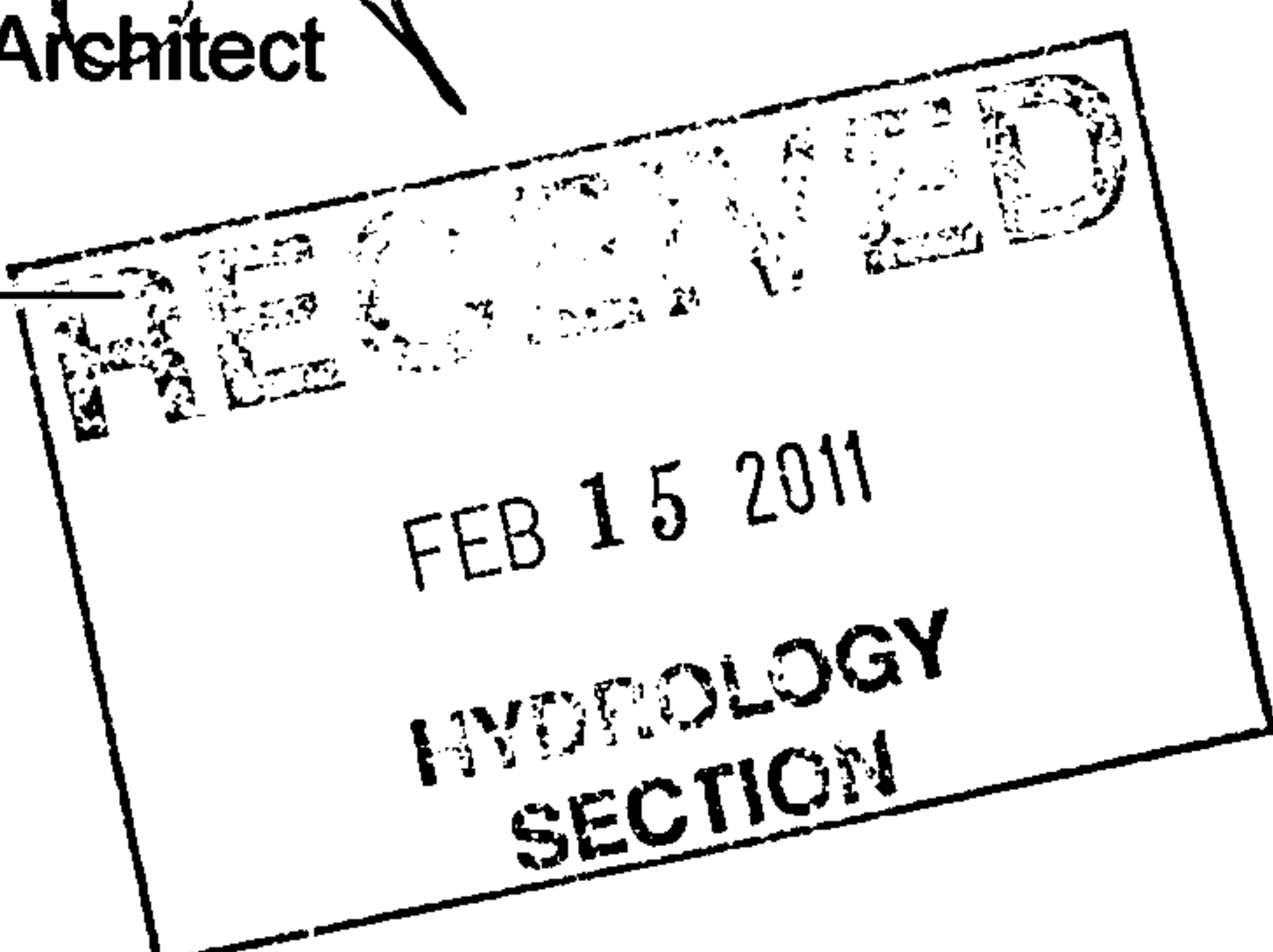
**RE: TRAFFIC CERTIFICATION - Submittal**  
**The Shoppes at Westpark – 4601 Paradise Boulevard, N.W.**  
**1510 Ellison Road, N.W.**

To whom it may concern:

I, Claudio Vigil, NM Registered Architect 1236, of the firm Claudio Vigil Architects, hereby certify that this project is in substantial compliance with and in accordance with the design intent of the approved TCL site plan and permit set. The record information documented and edited onto the approved TCL Site Plan has been obtained by Sandra Fairchild of the firm Claudio Vigil Architects. I further certify that I have personally visited the project site on February 14, 2011 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.

All work necessary to support the facility has been completed, and is in substantial compliance with the approved site development plan.

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the traffic aspects of this project. Those relying on the record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

  
Signature of Architect  
2/15/11  
Date  


ARCHITECT'S STAMP





# DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 01/06 – KDM)

PROJECT TITLE: The Shoppes at Westpark ZONE MAP: C-13-12003  
DRB#: 05DRB-01050 1003763 EPC#: 04EPC 01715 WORK ORDER#: \_\_\_\_\_

LEGAL DESCRIPTION: Tract 17-A-3, Eagle Ranch Subdivision  
CITY ADDRESS: 4601 Paradis Boulevard, N.W.

ENGINEERING FIRM: J. Arthur Blessen Engineering CONTACT: Art Blessen  
ADDRESS: 11930 Menaul Boulevard, N.E., Suite 109 PHONE: (505) 293-1477  
CITY, STATE: Albuquerque, NM ZIP CODE: 87112

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

ARCHITECT: Claudio Vigil Architects CONTACT: Sandra Farchild  
ADDRESS: 1801 Rio Grande Boulevard, N.W. PHONE: (505) 841-1113  
CITY, STATE: Albuquerque, NM ZIP CODE: 87104

SURVEYING FIRM: \_\_\_\_\_ LICENSED SURVEYOR: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

| PROFESSIONAL LICENSED SURVEYOR SIGNATURE | LICENSE NO. | DATE |
|------------------------------------------|-------------|------|
|------------------------------------------|-------------|------|

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

| TYPE OF SUBMITTAL:                                               | CHECK TYPE OF APPROVAL SOUGHT:                               |
|------------------------------------------------------------------|--------------------------------------------------------------|
| <input type="checkbox"/> DRAINAGE REPORT                         | <input type="checkbox"/> SIA/FINANCIAL GUARANTEE RELEASE     |
| <input type="checkbox"/> DRAINAGE PLAN 1 <sup>st</sup> SUBMITTAL | <input type="checkbox"/> PRELIMINARY PLAT APPROVAL           |
| <input type="checkbox"/> DRAINAGE PLAN RESUBMITTAL               | <input type="checkbox"/> S. DEV. PLAN FOR SUB'D APPROVAL     |
| <input type="checkbox"/> CONCEPTUAL G & D PLAN                   | <input type="checkbox"/> S. DEV. FOR BLDG. PERMIT APPROVAL   |
| <input type="checkbox"/> GRADING PLAN                            | <input type="checkbox"/> SECTOR PLAN APPROVAL                |
| <input type="checkbox"/> EROSION CONTROL PLAN                    | <input type="checkbox"/> FINAL PLAT APPROVAL                 |
| <input type="checkbox"/> ENGINEER'S CERT (HYDROLOGY)             | <input type="checkbox"/> FOUNDATION PERMIT APPROVAL          |
| <input type="checkbox"/> CLOMR/LOMR                              | <input type="checkbox"/> BUILDING PERMIT APPROVAL            |
| <input checked="" type="checkbox"/> TRAFFIC CIRCULATION LAYOUT   | <input checked="" type="checkbox"/> CERTIFICATE OF OCCUPANCY |
| <input checked="" type="checkbox"/> ENGINEER'S CERT (TCL)        | <input type="checkbox"/> GRADING PERMIT APPROVAL             |
| <input type="checkbox"/> ENGINEER'S CERT (DRB SITE PLAN)         | <input type="checkbox"/> PAVING PERMIT APPROVAL              |
| <input type="checkbox"/> OTHER-                                  | <input type="checkbox"/> WORK ORDER APPROVAL                 |
|                                                                  | <input type="checkbox"/> OTHER (SPECIFY) _____               |

WAS A PRE-DESIGN CONFERENCE ATTENDED:

☐ YES

☒ NO

☐ COPY PROVIDED

DATE SUBMITTED: 2-15-11

BY: 2-15-11

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:

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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



**Planning Department  
Transportation Development Services Section**

February 16, 2011

Claudio Vigil, Registered Architect  
Claudio Vigil Architects  
1801 Rio Grande Blvd NW  
Albuquerque, NM 87104

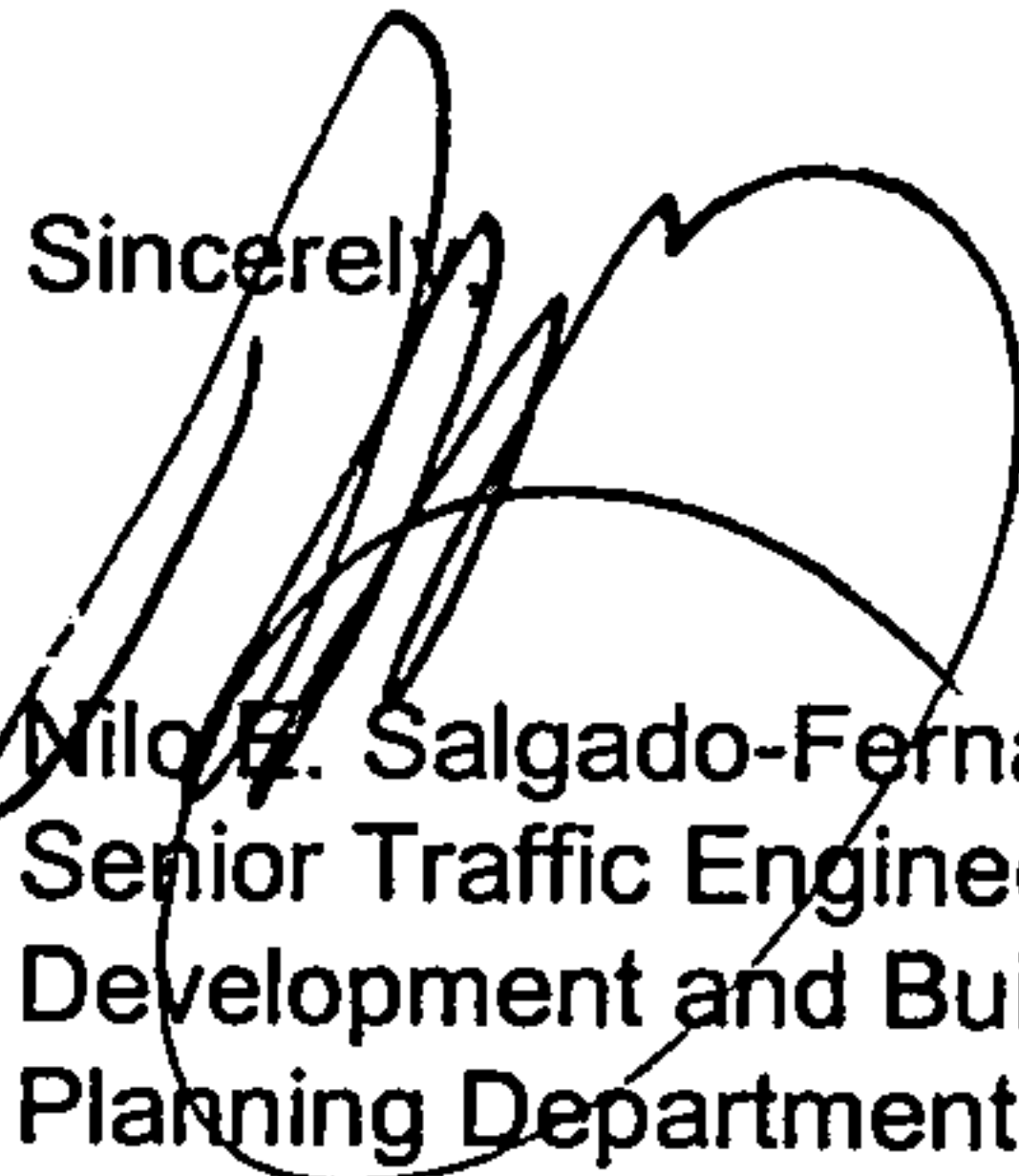
Re: Certification Submittal for a Permanent Building Certificate of Occupancy (C.O.)  
for **Shoppes at Westbrook**, [C-13 / D003]  
**4601 Paradise Blvd. NW**  
Architect's Stamp Dated 02/15/11

Dear Mr. Vigil:

Based upon the information provided in your submittal received 02-15-11,  
Transportation Development has **Disapproved** your request and you will need to submit  
for Administrative Amendment in order to reflect the changes (***added square footage for  
building, removal of pond, relocation of sidewalk and the addition of a retaining  
wall***) reflected/redlined on the Site Plan for building Permit.

If you have any questions, please contact me at (505)924-3630.

Sincerely,

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

c: Engineer  
Hydrology file  
CO Clerk

PO Box 1293

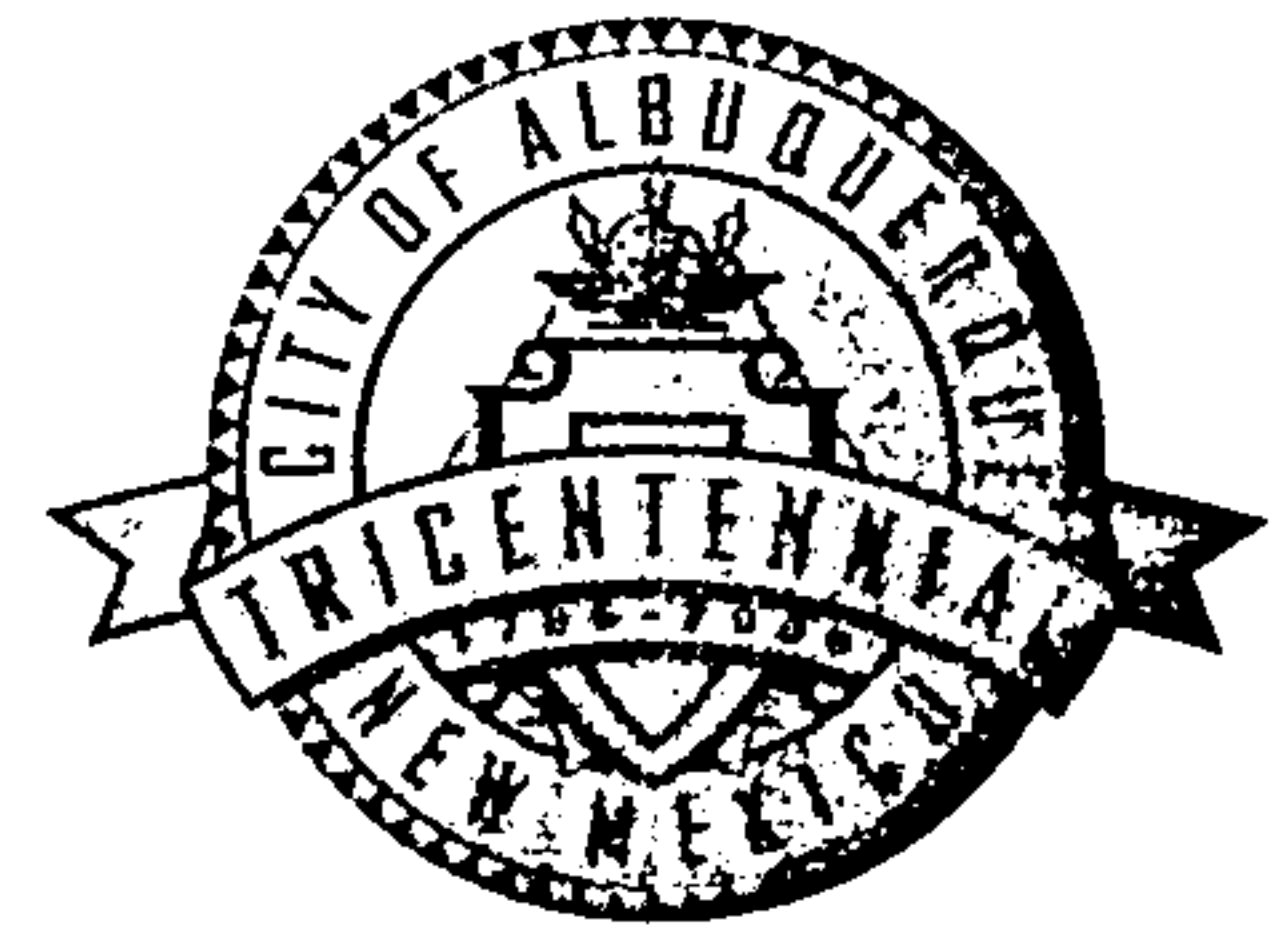
Albuquerque

NM 87103

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



# CITY OF ALBUQUERQUE



May 8, 2006

Arthur Blessen, PE  
Claudio Vigil Architects  
1801 Rio Grande Blvd NW  
Albuquerque, NM 87104

**Re: Ameri-Contractors Office Retail Complex Grading and Drainage Plan  
Engineer's Stamp dated 4-26-06 (C13/D3)**

Dear Mr. Blessen,

Based upon the information provided in your submittal dated 4-28-06, 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.

Also, prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions please visit <http://www.cabq.gov/flood/npdesm.html> or feel free to call the Municipal Development Department Hydrology Section at 768-3654 (Charles Caruso).

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

Sincerely,

Curtis A. Cherne, E.I.  
Engineering Associate, Planning Dept.  
Development and Building Services

*pub*

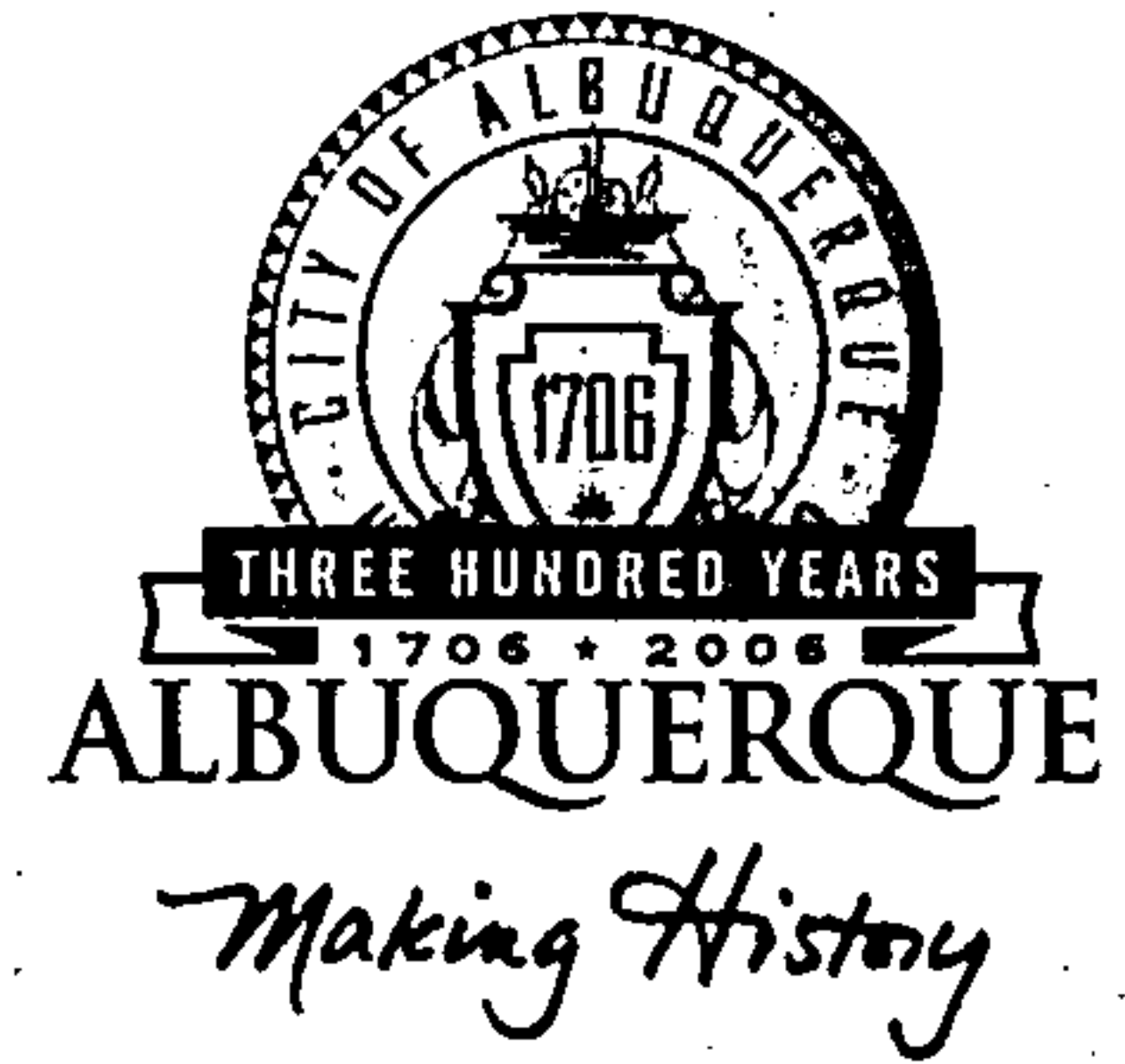
C: file  
Charles Caruso, DMD



# CITY OF ALBUQUERQUE

December 13, 2005

John Arthur Blessen, PE  
Claudio Vigil Architects  
1801 Rio Grande Blvd NW  
Albuquerque, NM 87104



**Re: Ameri-Contractors Office Retail, 4601 Paradise Blvd NW**  
**Grading and Drainage Plan**  
**Engineer's Stamp dated 12-09-05 (C13-D3)**

Dear Mr. Blessen,

Based upon the information provided in your submittal received 12-09-05, 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. Also, prior to Certificate of Occupancy release, Engineer Certification of the grading plan per the DPM checklist will be required.

As part of this approval, drainage from the buildings must flow toward the parking lot. If the flow from the roof is not directed towards the parking lot this approval will be null and void.

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).

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

Sincerely,

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

C: Charles Caruso  
File

P.O. Box 1293

Albuquerque

New Mexico 87103

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





# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 30, 1999

Frank D. Lovelady, PE  
300 Alamosa NW  
Albuquerque, NM 87107

**RE: GRADING & DRAINAGE PLAN FOR TODD CONSTRUCTION (C-13/D3)  
RECEIVED JUN 28, 1999 FOR BUILDING PERMIT  
ENGINEER'S STAMP DATED 6/28/99**

Dear Mr. Lovelady:

Based on the information included in the submittal referenced above, City Hydrology accepts the Grading & Drainage Plan for Building Permit.

Include a copy of the approved Grading & Drainage Plan, dated 6/28/99, in each set of construction documents that will be submitted to Code Administration for the Building Permit.

Engineer's Certification of grading & drainage, per DPM checklist, must be accepted by City Hydrology before any Certificate of Occupancy will be released. Also the Drainage Covenant must be executed by both parties and recorded prior to C.O. release.

If I can be of further assistance, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.  
Project Manager, PWD/Hyd

c: Inspector





# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 23, 1999

Frank D. Lovelady, PE  
300 Alamosa NW  
Albuquerque, NM 87107

**RE: GRADING & DRAINAGE PLAN FOR TODD CONSTRUCTION (C-13/D3)  
RECEIVED APR 1, 1999 FOR SITE DEVELOPMENT PLAN  
ENGINEER'S STAMP DATED 4/1/99**

Dear Mr. Lovelady:

Based on the information included in the submittal referenced above, City Hydrology accepts the Grading & Drainage Plan for Building Permit.

Include a copy of the approved Grading & Drainage Plan, dated 4/1/99, in each set of construction documents that will be submitted to Code Administration for the Building Permit.

Engineer's Certification of grading & drainage, per DPM checklist, must be accepted by City Hydrology before any Certificate of Occupancy will be released.

If I can be of further assistance, You may contact me at 768-2727.

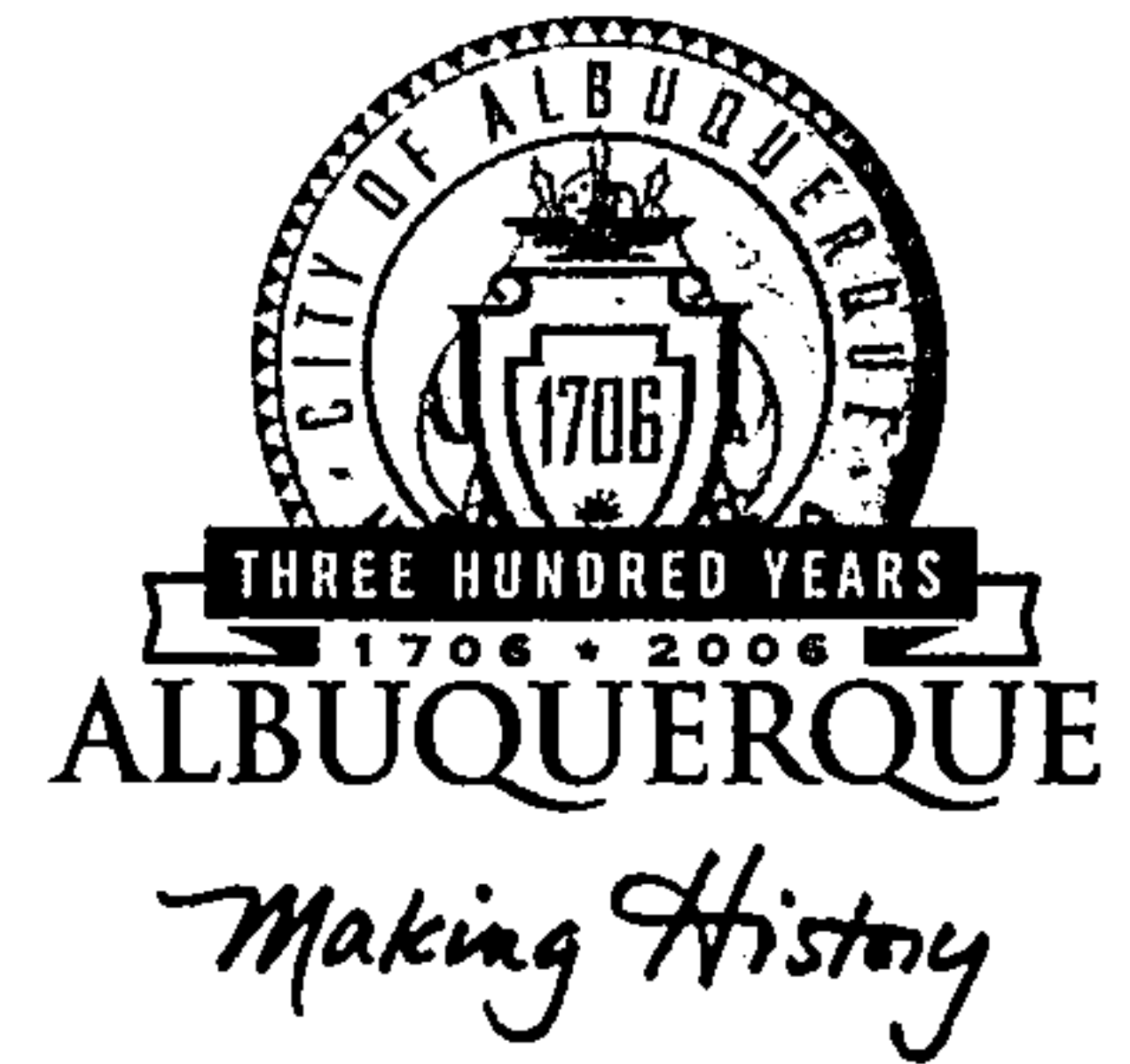
Sincerely,

John P. Curtin, P.E.  
Project Manager, PWD/Hyd

c: Andrew Garcia



# CITY OF ALBUQUERQUE



July 1, 2005

John Arthur Blessen, PE  
Claudio Vigil Architects  
1801 Rio Grande NW  
Albuquerque, NM 87104

**Re: Ameri-Contractors Office Retail Preliminary Grading and Drainage Plan  
Engineer's Certification dated 5-9-05, (C13/D3)**

Dear Mr. Blessen,

P.O. Box 1293

Based upon the information provided in your submittal dated 6-6-05, the above referenced plan is approved for Site Development Plan for Building Permit. I will provide comments on the Building Permit submittal.

Albuquerque

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

New Mexico 87103

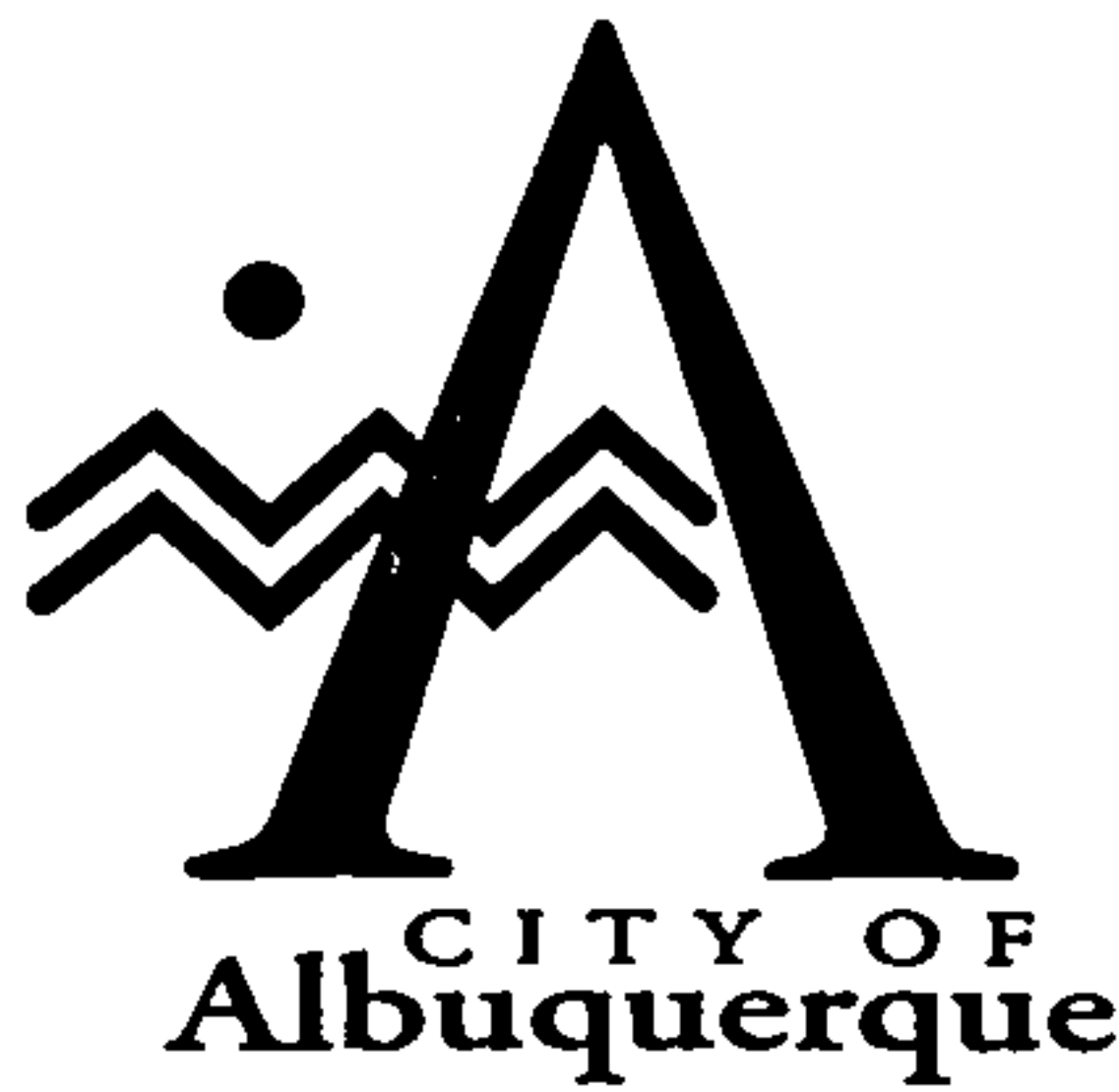
[www.cabq.gov](http://www.cabq.gov)

Sincerely,

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

C: file





P.O. Box 1293 Albuquerque, NM 87103

April 3, 1997

Martin J. Chávez, Mayor

Gregory J. Krenik, P.E.  
Mark Goodwin & Assoc.  
P.O. Box 90606  
Albuquerque, N.M. 87199

**RE: ENGINEER'S CERTIFICATION FOR WEST PARK APTS (C-13/D3)  
RECEIVED JANUARY 27, 1997 FOR CERTIFICATE OF OCCUPANCY  
ENGINEER'S STAMP DATED 1-27-97**

Dear Mr. Krenik:

Based on the information included in your letter dated March 31, City Hydrology accepts the Engineer's Certification for Certificate of Occupancy.

Larry Caudill from the Environmental Health Dept may discuss the effectiveness of the Dust Control Plan with you when the spring winds start to blow.

Sincerely,

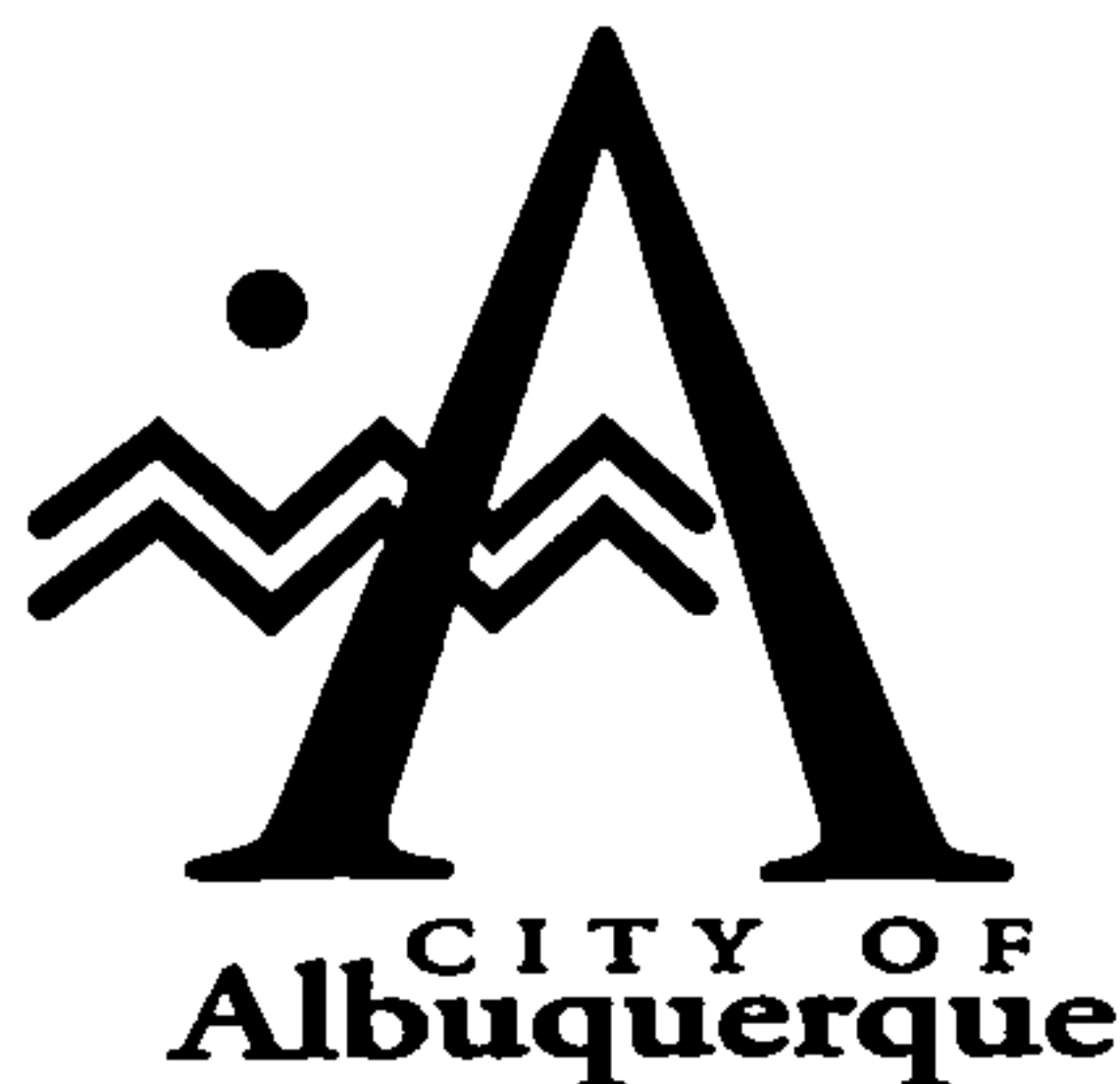
John P. Curtin, P.E.  
Civil Engineer/Hydrology

c: Bob Myer, Tri-West, 15648 SE 114th Ave, Suite 111, Clackamas OR 97015

Good for You, Albuquerque!







P.O. Box 1293 Albuquerque, NM 87103

October 1, 1996

Martin J. Chávez, Mayor

Gregory J. Krenik, P.E.  
Mark Goodwin & Assoc.  
P.O. Box 90606  
Albuquerque, N.M. 87199

RE: ENGINEER'S CERTIFICATION FOR WEST PARK APT (C-13/D3)  
RECEIVED SEPTEMBER 25, 1996 FOR CERTIFICATE OF OCCUPANCY  
ENGINEER'S STAMP DATED 9-24-96

Dear Mr. Krenik:

Based on the information included in the submittal referenced above, City Hydrology accepts the engineer's certification for Building "K". Provide as-built volume calculations for the Eagle Ranch pond in the next submittal.

Contact Vicki Chavez at Code Enforcement to obtain the Certificate of Occupancy for Building "K" at 9251 Eagle Ranch Road NW.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

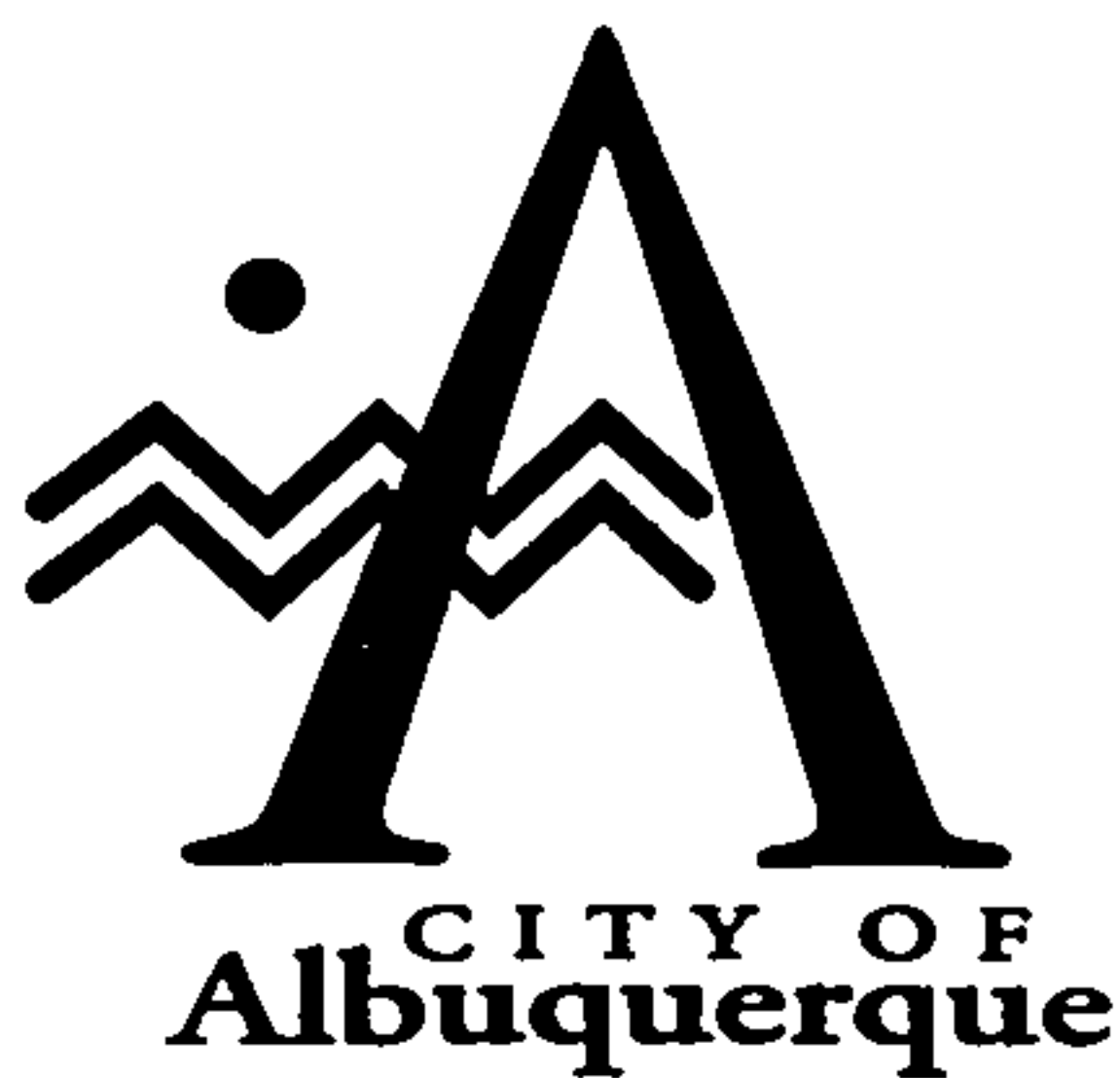
John P. Curtin, P.E.  
Civil Engineer/Hydrology

c: Andrew Garcia

Good for You, Albuquerque!







P.O. Box 1293 Albuquerque, NM 87103

October 1, 1996

Martin J. Chávez, Mayor

Gregory J. Krenik, P.E.  
Mark Goodwin & Assoc.  
P.O. Box 90606  
Albuquerque, N.M. 87199

RE: ENGINEER'S CERTIFICATION FOR WEST PARK APT (C-13/D3)  
RECEIVED SEPTEMBER 6, 1996 FOR CERTIFICATE OF OCCUPANCY  
ENGINEER'S STAMP DATED 9-6-96

Dear Mr. Krenik:

Based on the information included in the submittal referenced above, City Hydrology accepts the engineer's certification for Buildings "L & M". As-built elevations indicate a birdbath at the dumpster & a high spot at the east corner of Building "L".

Contact Vicki Chavez at Code Enforcement to obtain the Certificate of Occupancy for Buildings "L & M" at 9251 Eagle Ranch Road NW.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

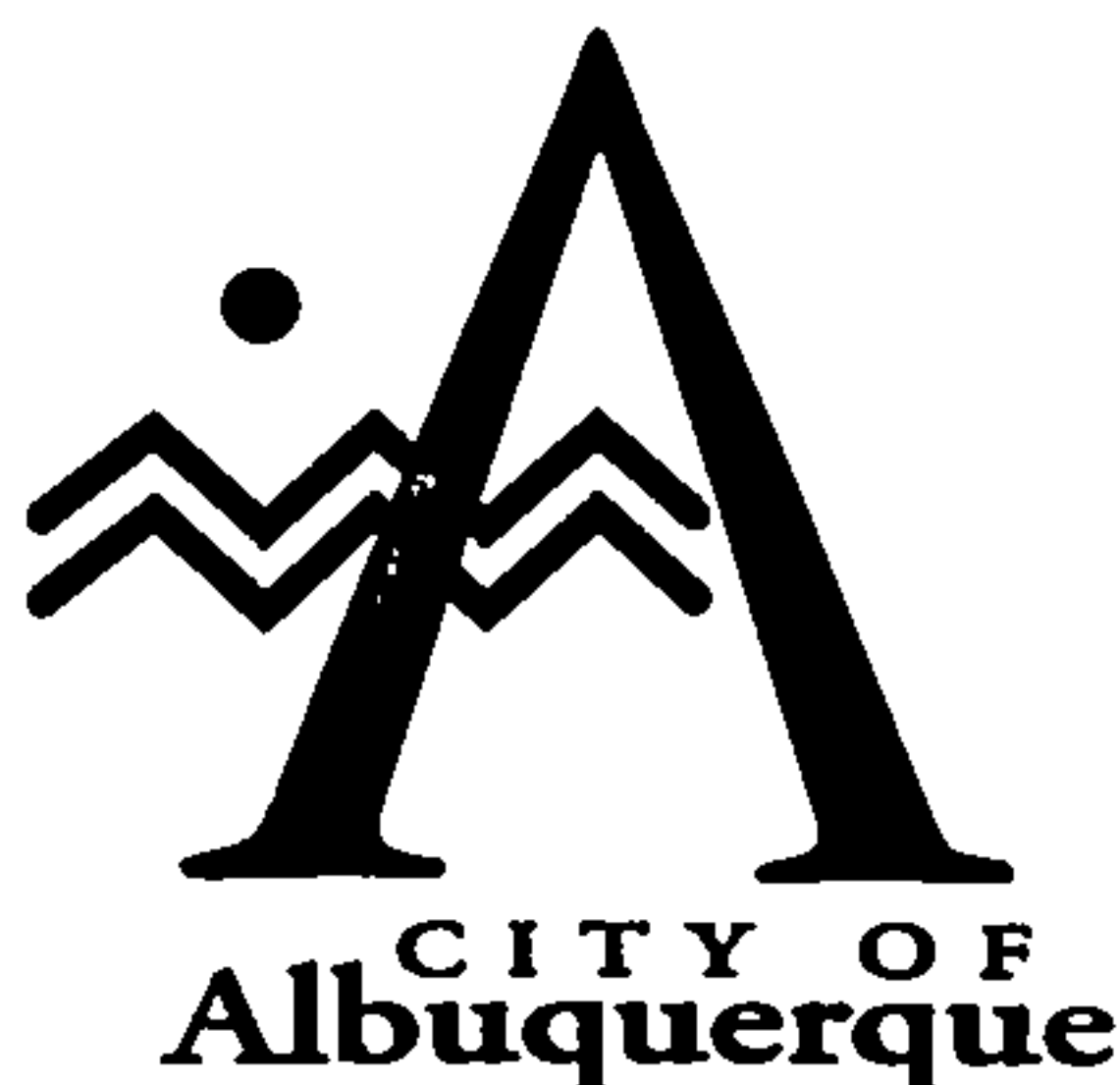
John P. Curtin, P.E.  
Civil Engineer/Hydrology

c: Andrew Garcia

Good for You, Albuquerque!







P.O. Box 1293 Albuquerque, NM 87103

September 17, 1996

Martin J. Chávez, Mayor

Gregory J. Krenik, P.E.  
Mark Goodwin & Assoc.  
P.O. Box 90606  
Albuquerque, N.M. 87199

**RE: ENGINEER'S CERTIFICATION FOR WEST PARK APT (C-13/D3)  
RECEIVED AUGUST 20, 1996 FOR CERTIFICATE OF OCCUPANCY  
ENGINEER'S STAMP DATED 8-19-96**

Dear Mr. Krenik:

Based on the information included in the submittal referenced above, City Hydrology accepts the engineer's certification for Buildings "C, D, E, H & REC".

Contact Vicki Chavez at Code Enforcement to obtain the Certificate of Occupancy for Buildings "C, D, E, H & REC" at 9251 Eagle Ranch Road NW.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

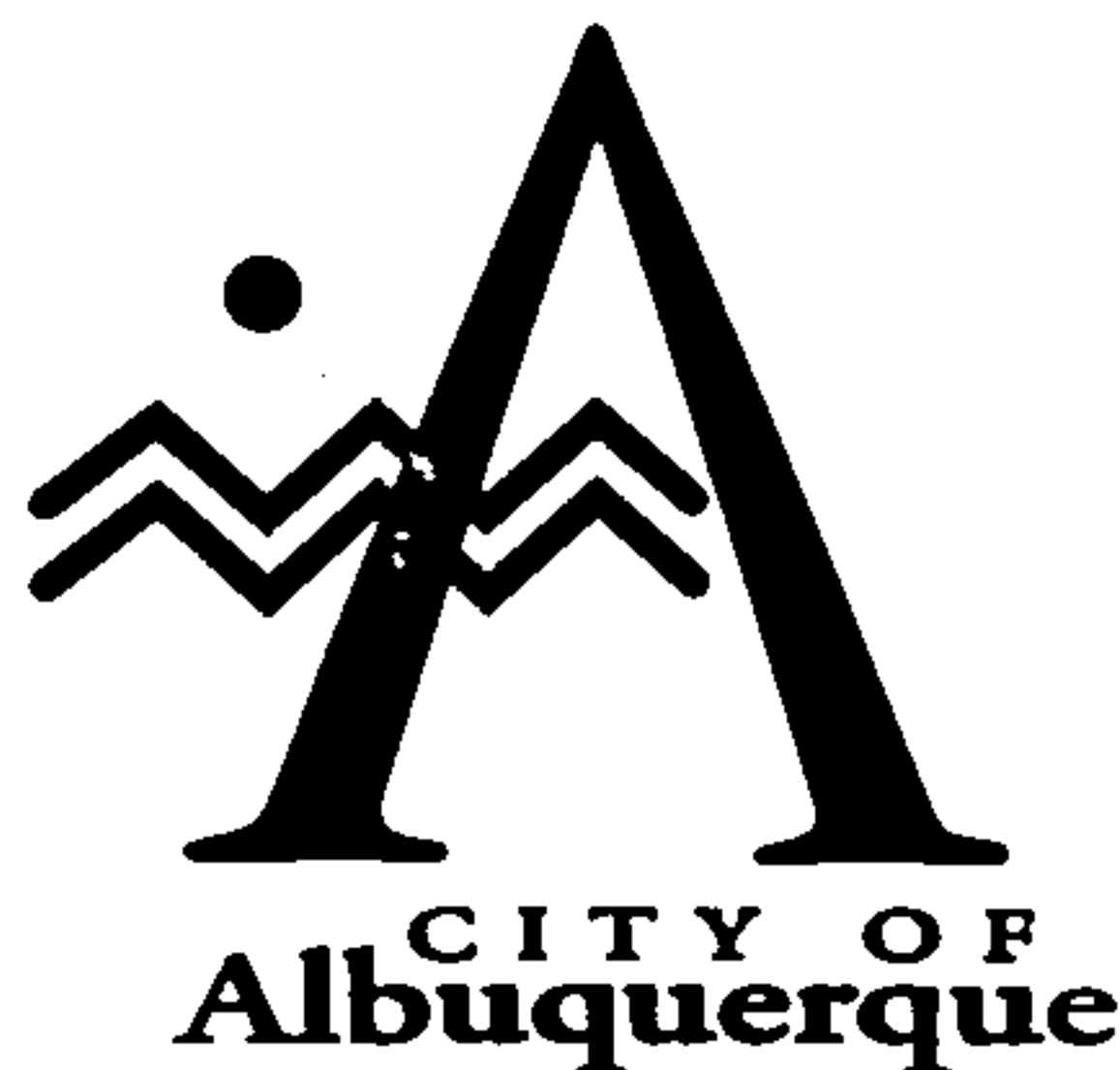
John P. Curtin, P.E.  
Civil Engineer/Hydrology

c: Andrew Garcia

Good for You, Albuquerque!







P.O. Box 1293 Albuquerque, NM 87103

August 29, 1996

Martin J. Chávez, Mayor

Gregory J. Krenik, P.E.  
Mark Goodwin & Assoc.  
P.O. Box 90606  
Albuquerque, N.M. 87199

RE: GRADING & DRAINAGE PLAN FOR WEST PARK APT (C-13/D3)  
RECEIVED AUGUST 12, 1996 FOR BUILDING PERMIT  
ENGINEER'S STAMP DATED 7-25-95

Dear Mr. Krenik:

Based on the information included in the submittal referenced above, City Hydrology approves the grading & drainage plan for building permit.

It is City Hydrology's understanding that the Plan reflects changes requested by the homeowner's association after the building permit was issued.

Engineer's Certification of grading & grading per DPM checklist must be accepted by City Hydrology before any certificate of occupancy will be released.

If you have any questions about this project, You may contact me at 768-2727.

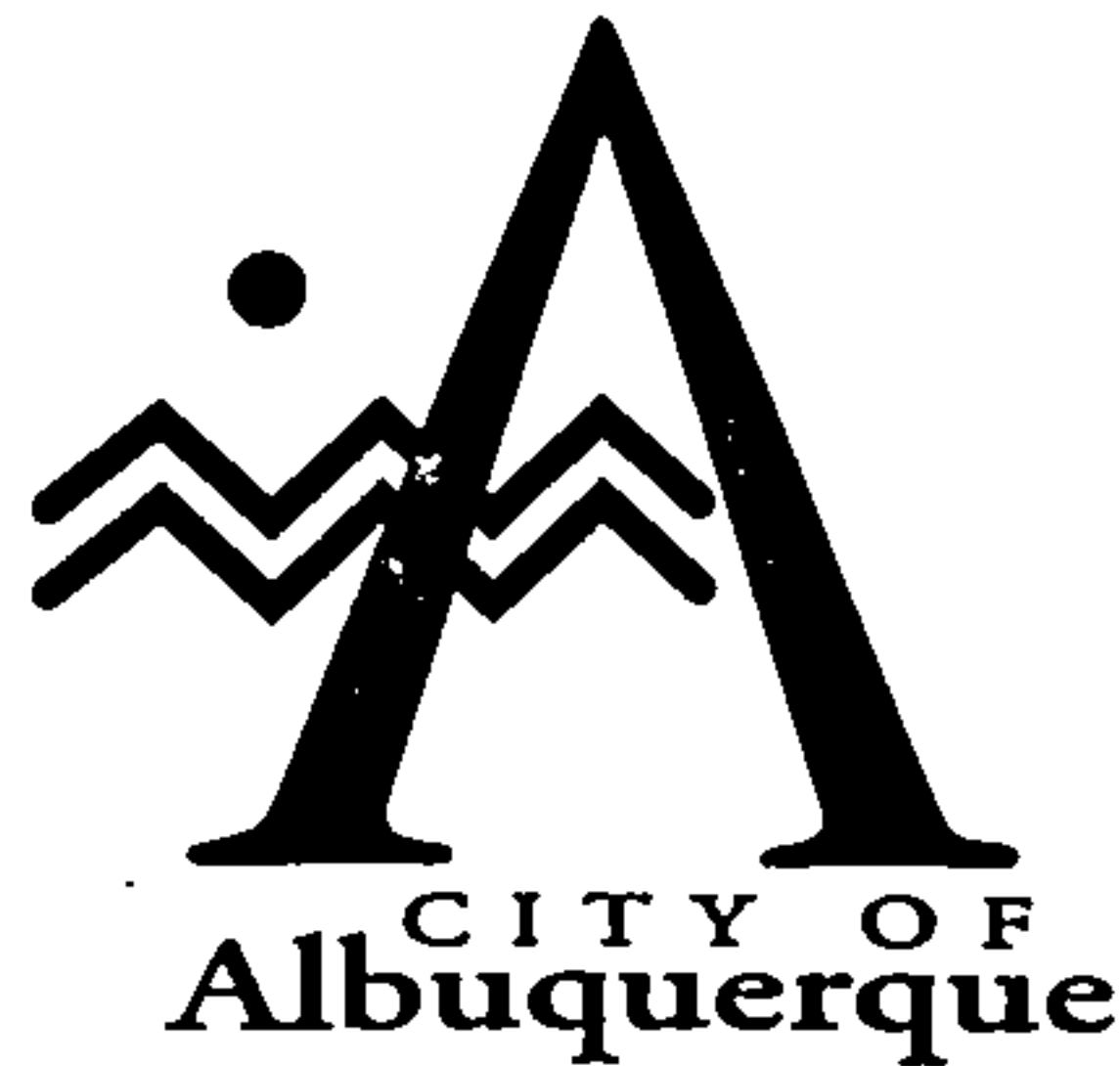
Sincerely,

John P. Curtin, P.E.  
Civil Engineer/Hydrology

c: Andrew Garcia  
Neil Treitman, Community Dev, 3701 Fairbanks Ave Suite A-1, Yakima WA 98902  
Good for You, Albuquerque!







P.O. Box 1293 Albuquerque, NM 87103

July 29, 1996

Martin J. Chávez, Mayor

Gregory J. Krenik, P.E.  
Mark Goodwin & Assoc.  
P.O. Box 90606  
Albuquerque, N.M. 87199

RE: GRADING & DRAINAGE PLAN FOR WEST PARK APT (C-13/D3)  
RECEIVED JULY 16, 1996 FOR CAR PORT  
ENGINEER'S STAMP DATED 7-12-96

Dear Mr. Krenik:

Based on the information included in the submittal referenced above, City Hydrology has no objection to the covered parking shown on Sheets G1 & G2.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.  
Civil Engineer/Hydrology

c: Andrew Garcia  
Fred Aguirre  
Neil Treitman, Community Dev, 3701 Fairbanks Ave Suite A-1,  
Yakima, WA 98902

Good for You, Albuquerque!







# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 16, 1995

Gregory J. Krenik, P.E.  
Mark Goodwin & Assoc.  
P.O. Box 90606  
Albuquerque, N.M. 87199

RE: DRAINAGE REPORT FOR WESTPARK APTS **(C-13/D3)**  
RECEIVED JULY 20, 1995 FOR BUILDING PERMIT  
ENGINEER'S STAMP DATED 7-19-95

Dear Mr. Krenik:

Based on the information included in the submittal referenced above, City Hydrology accepts the Drainage Report for Building Permit & Work Order for Phase 1 & 2. Include a copy of the Grading & Drainage Plan, dated 4-26-95, in each set of construction documents that will be submitted to Code Administration for the Building Permit. Include a copy of the Off-site Drainage Improvements, dated 7-19-95, in the Work Order plans.

Engineer's Certification of grading & drainage per DPM checklist must be accepted by City Hydrology before any Certificate of Occupancy is released. The Engineer must certify that all outlet structures have been fabricated & installed properly and that they will perform as designed. Provide as-built volumes for both ponds.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.  
Civil Engineer/Hydrology

c: Andrew Garcia  
/Neil Treitman, Community Dev, 3701 Fairbanks Ave Suite A-1, Yakima WA 98902





# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 2, 1995

Gregory J. Krenik, P.E.  
Mark Goodwin & Assoc.  
P.O. Box 90606  
Albuquerque, N.M. 87199

RE: DRAINAGE REPORT FOR WESTPARK APTS **(C-13/D3)**  
RECEIVED JULY 20, 1995 FOR BUILDING PERMIT  
ENGINEER'S STAMP DATED 7-19-95

Dear Mr. Krenik:

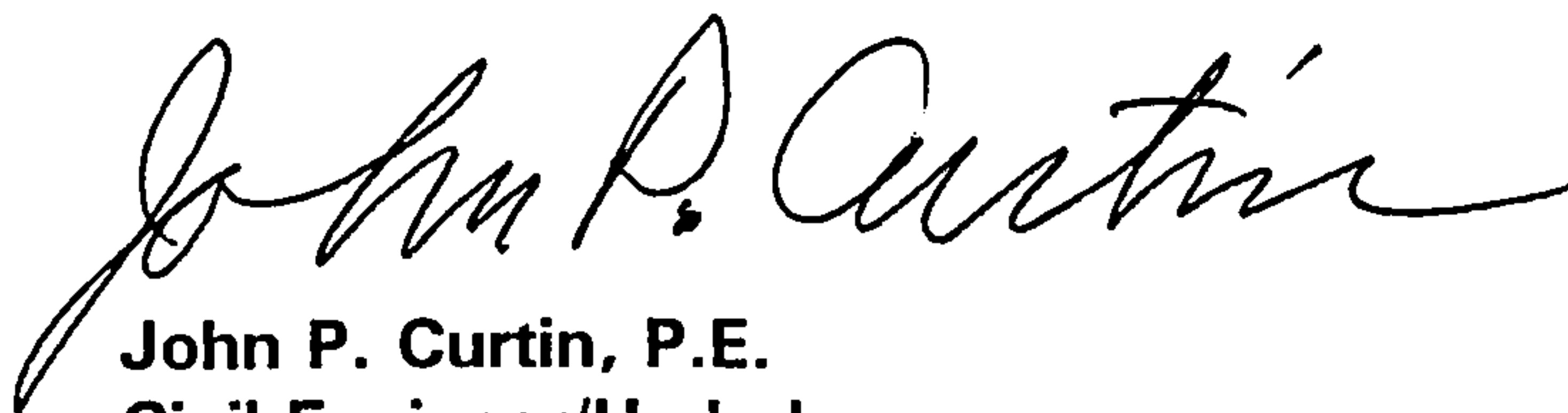
Based on the information included in the submittal referenced above, City Hydrology accepts the Drainage Report for Building Permit & Work Order.

Include a copy of the Grading & Drainage Plan, dated **4-26-95**, in each set of construction documents that will be submitted to Code Administration for the Building Permit.

Engineer's Certification of grading & drainage per DPM checklist must be accepted by City Hydrology before any Certificate of Occupancy is released. The Engineer must certify that all outlet structures have been fabricated & installed properly and that they will perform as designed. Provide as-built volumes for both ponds.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,



John P. Curtin, P.E.  
Civil Engineer/Hydrology

c: Andrew Garcia  
Neil Treitman, Community Dev, 3701 Fairbanks Ave Suite A-1, Yakima WA 98902

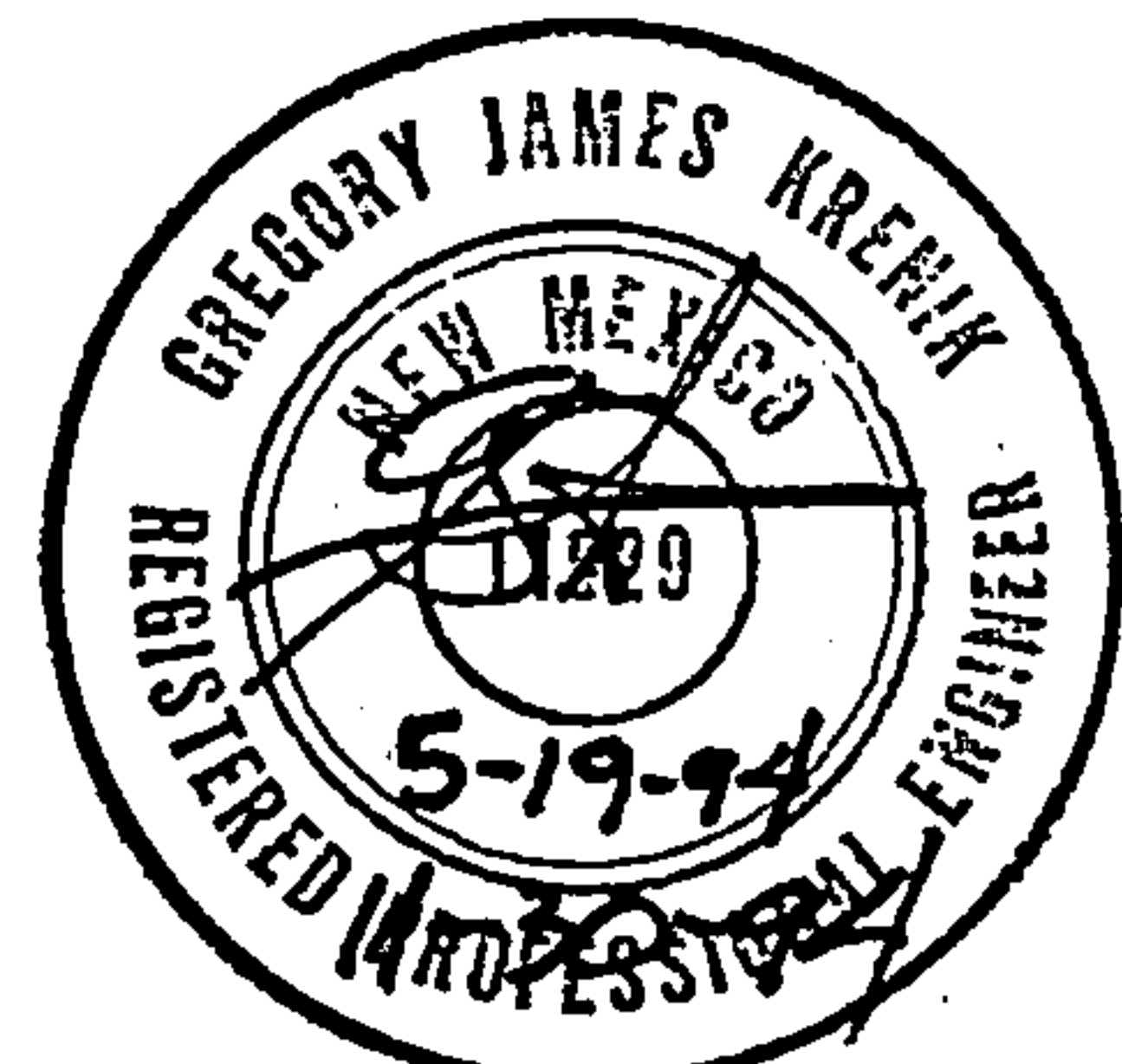
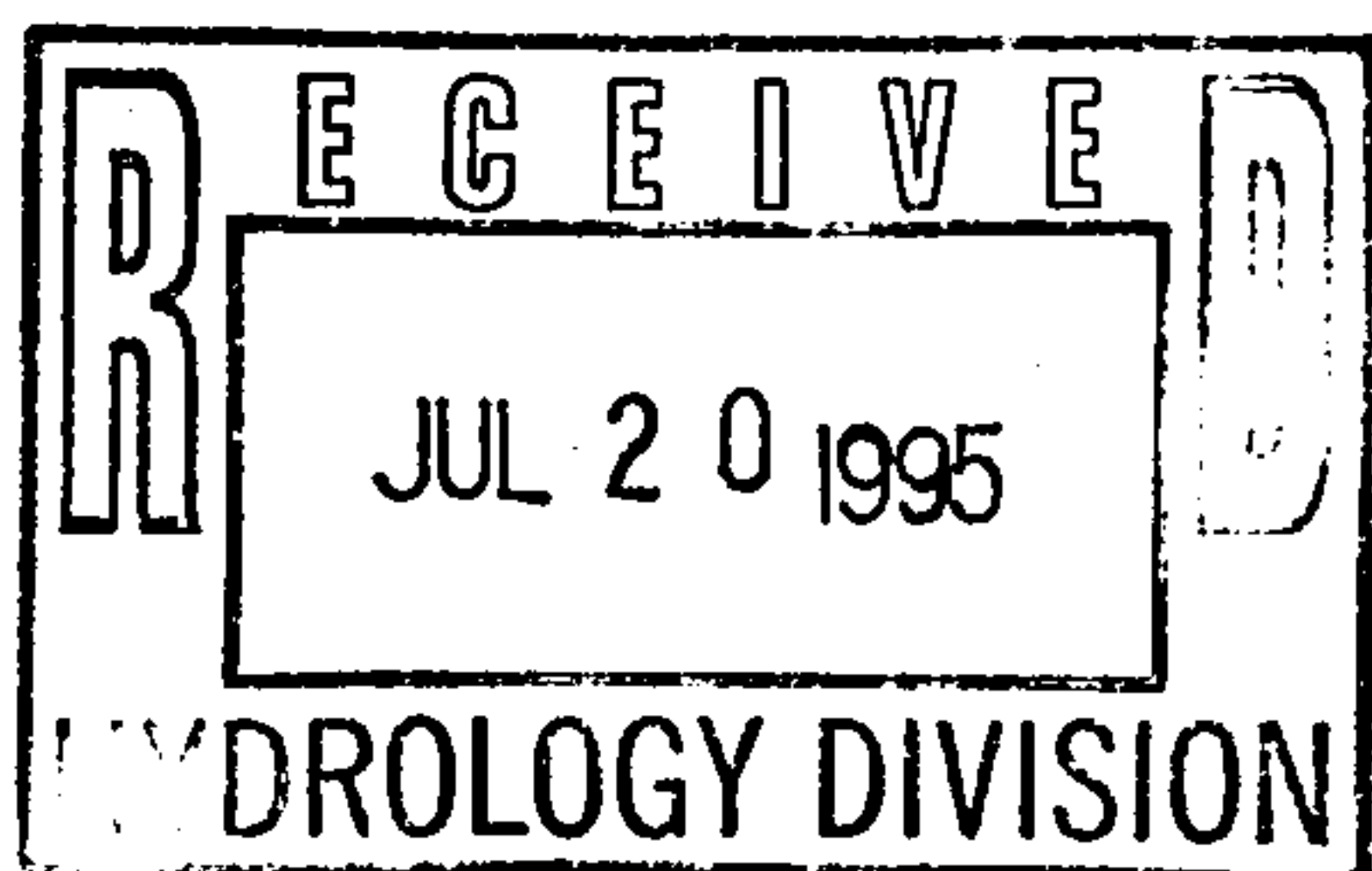


**DRAINAGE REPORT**  
**for**  
**TRACT 17-A**  
**WEST PARK APARTMENTS**

Prepared for:

Mr. Neil Treitman  
Community Development Services, Inc.  
3701 Fairbanks Avenue  
Suite A-1  
Yakima, WA 98902

May 1994



2-16-95  
3-29-95  
7-19-95

D. MARK GOODWIN & ASSOCIATES



## **PURPOSE**

The purpose of this report is to present the drainage management plan for the Tract 17-A, WestPark Apartments to obtain final plat and work order approval. All applicable ordinances and the DPM were utilized to prepare this plan. Since we are tying into the Eagle Ranch Stormdrain, the rational method was employed.

## **EXISTING CONDITIONS**

The project comprises an area of 14.8707 acres at the east end of Paradise Hills (better known as Tract 17-A, WestPark Apartments of Eagle Ranch). This site is bounded by the existing Cactus Ridge Subdivision to the west, Vista Montecito Subdivision to the north, Eagle Ranch Road to the east and Paradise Boulevard to the south. (See attached Vicinity Map.)

The tract is fairly steep, sloping from northwest to southeast at approximately 33 percent and then transitions to 10%. Vegetative cover is typical of west side property, and the soils are sandy. The site drains within itself with a small portion draining into the roadways.

## **HYDROLOGIC ANALYSIS**

HYMO was utilized for this analysis. All of the pertinent hydrologic parameters and calculation methods are located in the appendix of this report.

## **PROPOSED MANAGEMENT PLAN**

Refer to the D. Mark Goodwin & Associates Drainage Report for Cactus Hills, January 20, 1993, for allowable discharge of 3.0 cfs to the Eagle Ranch Stormdrain (see Appendix A).

As a developed site, this plan proposes to discharge stormwater runoff at two locations, the Eagle Ranch Stormdrain and a proposed storm drain in Paradise Boulevard. The site will discharge 2.697 cfs via on-site catch basins and detention ponds through an orifice of 7" over 18" RCP, directly into the Eagle Ranch Stormdrain. The orifice plat will need to have the edges rounded.



This tie-in will occur at the manhole where the pipe changes from 48" RCP to 54" RCP. The site will also discharge 12.058 cfs to Paradise Boulevard (10.61 cfs into stormdrain) which is less than the 14 cfs allowed by the A.G. Spanos Apartment Drainage Plan (Appendix B). This flow is routed through a pond at the southeast corner and also collected by two catch basins in the intersection of Paradise Boulevard and Eagle Ranch Road through 18" RCP which continues in 18" RCP to the western A.G. Spanos inlet to the east on Paradise Blvd. The inlets at the intersection of Eagle Ranch Road and Paradise Boulevard are to catch the nuisance flows so that they do not cross Eagle Ranch Road per the Transportation Department. The flow combines with 16.15 cfs from the Hedges Mini Storage facility (Appendix C) in a manhole in the intersection of Paradise Blvd. and Eagle Ranch Road.

## **INTERIM EROSION CONTROL**

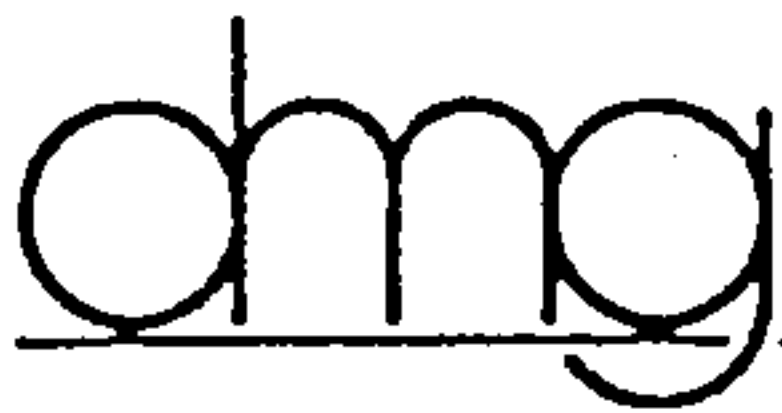
Due to the sensitive nature of the sandy soils associated with this site, an Erosion Control Plan is part of this report and project.

The plan centers on the fact that storm waters will not be allowed free discharge during the construction process until all street paving is accomplished.

## **CONCLUSIONS**

The proposed Tract 17-A, WestPark Apartments comprising 23 apartment buildings, one recreational building and future commercial out parcel on 14.8707 acres, can be readily accommodated through the implementation of this plan. The only improvements would be replacement of asphalt where the tie-in to the Eagle Ranch Stormdrain occurs. It has been adequately shown in this report and others cited, that the other off-site conveyance systems are adequate and, indeed, were masterplanned with this project in mind. It has also been shown in this report that the internal conveyance of stormwater can be accomplished while meeting all current City requirements.





D. Mark Goodwin & Associates, P.A.  
Consulting Engineers and Surveyors

PROJECT WEST PARK APTS  
SUBJECT DRAINAGE CALCS  
BY GSK DATE 2-9-95  
CHECKED \_\_\_\_\_ DATE \_\_\_\_\_  
SHEET 1 OF \_\_\_\_\_

TOTAL SITE : 14,8707 AC

THE SITE IS DIVIDED INTO FOUR DRAINAGE BASINS

BASIN 1

THIS DRAINS DIRECTLY TO EAGLE RANCH ROAD. THE RUNOFF TRAVELS NORTH TO THE EXISTING STORM INLET NORTH OF VISTA MONTECITO.

BASIN 2

THIS DRAINS TO THE ONSITE POND AND HAS A CONTROLLED DISCHARGE OF 3 CFS TO THE EAGLE RANCH STORM DRAIN.

BASIN 3

THIS DRAINS TO DIRECTLY TO BOTH PARADISE BLVD AND EAGLE RANCH ROAD. THIS RUNOFF WILL BE COLLECTED IN CURB INLETS AND TRANSMITTED UNDER PARADISE BLVD EAST.

BASIN 4

THIS DRAINS TO THE ON SITE POND AND DISCHARGES TO PARADISE BLVD. EAST OF EAGLE RANCH ROAD THROUGH THE CURB.

- THE ALLOWED DISCHARGE FOR BASINS 3 AND 4 IS 14.2 CFS PER THE AG SPANOS DRAINAGE REPORT-APPENDIX B.
- THE ALLOWED DISCHARGE TO THE EAGLE RANCH STORM DRAIN IS 3 CFS PER THE CACTUS HILLS DRAINAGE REPORT-APPENDIX A.

|                            |                |                |                |                |
|----------------------------|----------------|----------------|----------------|----------------|
| $P_1 = 1.90 \text{ in}$    | <u>BASIN 1</u> | <u>BASIN 2</u> | <u>BASIN 3</u> | <u>BASIN 4</u> |
| $P_6 = 2.20 \text{ in}$    | 0.2443 AC      | 8.9954 AC      | 0.4072 AC      | 5.2238 AC      |
| $P_{24} = 2.65 \text{ in}$ | 0.000382 SM    | 0.014055 SM    | 0.000636 SM    | 0.008162 SM    |
| $DT = 0.03333 \text{ HR}$  |                |                |                |                |
| $TP = 0.1333 \text{ HR}$   |                |                |                |                |

- FIND TREATMENT AREAS FOR EACH BASIN

|        | <u>BASIN 1</u> | <u>BASIN 2</u> | <u>BASIN 3</u> | <u>BASIN 4</u> |
|--------|----------------|----------------|----------------|----------------|
| TYPE B | 20.91 %        | 22.94 %        | 23.10 %        | 29.08 %        |
| TYPE C | 20.91 %        | 22.94 %        | 23.10 %        | 29.08 %        |
| TYPE D | 58.18 %        | 54.12 %        | 53.80 %        | 41.84 %        |

FROM THE HYMO OUTPUT 2-13

|     | <u>BASIN 1</u> | <u>BASIN 2</u> | <u>BASIN 3</u> | <u>BASIN 4</u> |
|-----|----------------|----------------|----------------|----------------|
| Q = | 0.90 CFS       | 31.81 CFS      | 1.45 CFS       | 17.22 CFS      |
| V = | 0.0304 AC-FT   | 1.0838 AC-FT   | 0.0489 AC-FT   | 0.5687 AC-FT   |









D. Mark Goodwin & Associates, P.A.  
Consulting Engineers and Surveyors

PROJECT WEST PARK APTS  
SUBJECT DRAINAGE CALCS  
BY GJK DATE 2-9-95  
CHECKED \_\_\_\_\_ DATE \_\_\_\_\_

SHEET 14 OF \_\_\_\_\_

REVISED 3-29-95

- DETERMINE POND SIZES.

~~XX~~ PARADISE DISCHARGE POND.

ALLOWABLE  $Q = 14.2$  CFS

BASIN 3 direct discharges 1.45 CFS

- PEAK DISCHARGE FOR POND

$$14.2 - 1.45 = 12.75 \text{ CFS}$$

|           |      |       |       |       |       |
|-----------|------|-------|-------|-------|-------|
| ELEVATION | 75.0 | 76.0  | 77.0  | 78.0  | 79.0  |
| STORAGE   | 0.0  | 0.028 | 0.091 | 0.169 | 0.264 |

OUTFLOW

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

$$A = 1.767$$

$$C = 0.8$$

18" RCP

|           |      |       |       |        |        |
|-----------|------|-------|-------|--------|--------|
| ELEVATION | 75.0 | 76.0  | 77.0  | 78.0   | 79.0   |
| Q CFS     | 0.0  | 3.939 | 8.808 | 11.818 | 14.263 |

FROM HYMO OUTPUT 15-18

PEAK  $Q = 10.608$  CFS  $< 12.75$  CFS OK

MAX WATER SURFACE = 77.598

MAX WATER STORAGE = 0.1377 AC-FT

~~XX~~ EAGLE RANCH POND POND

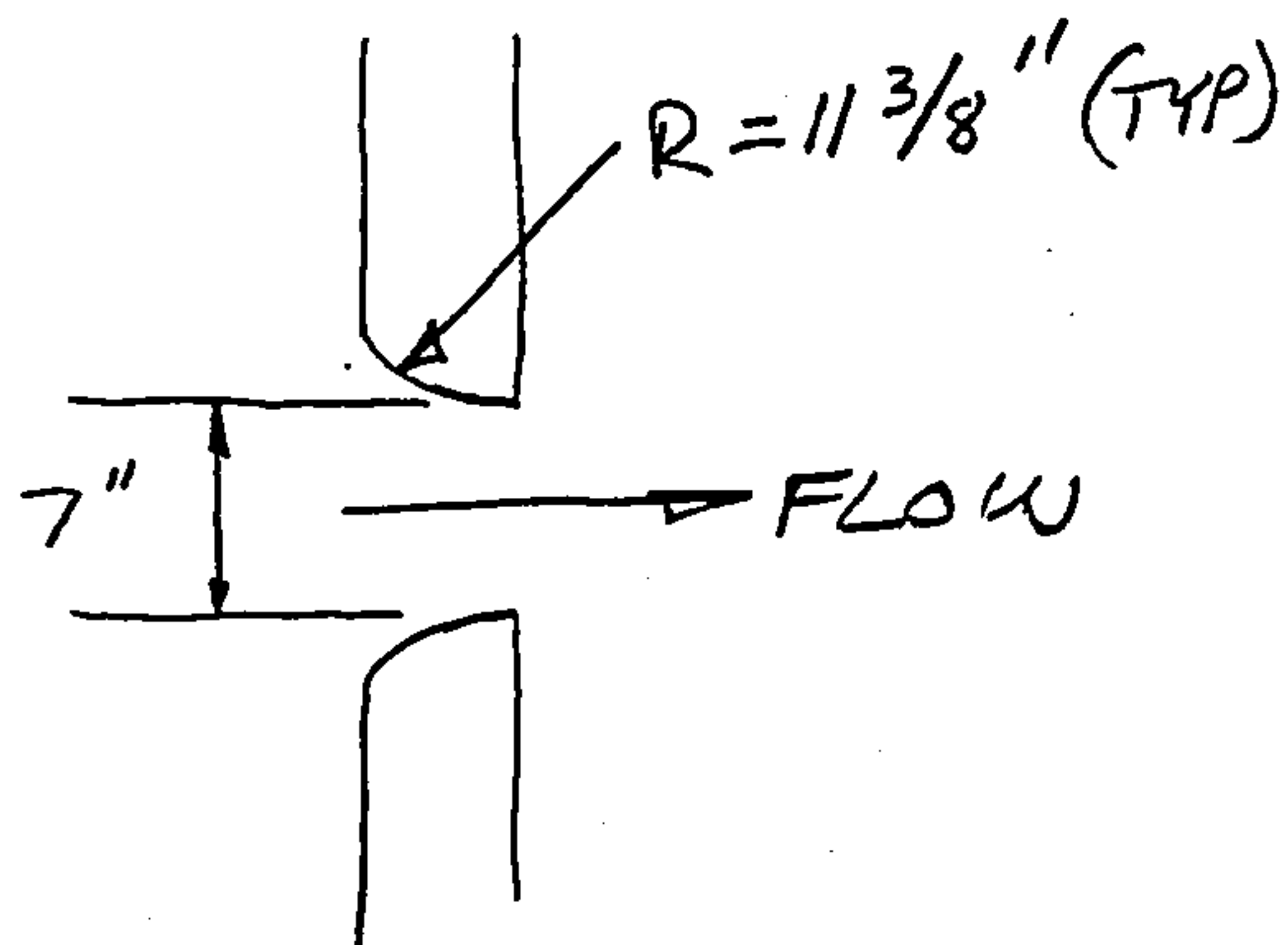
ALLOWABLE DISCHARGE = 3 CFS

$$\text{OUT FLOW} = Q = CA\sqrt{2gh}$$

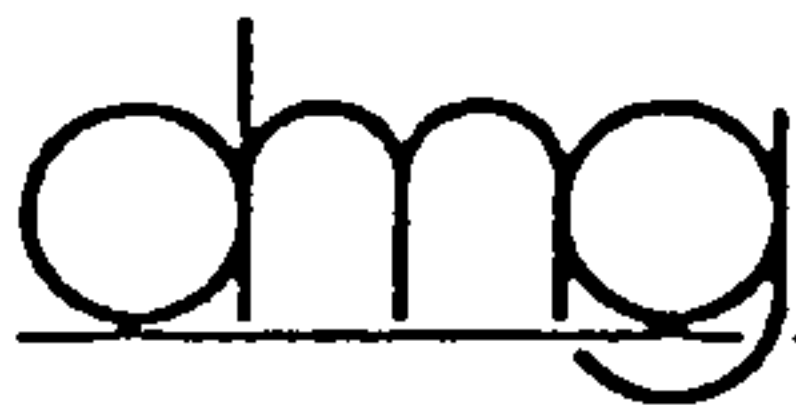
USE 7" ORIFICE PLATE WITH  
ROUNDED EDGES

|    |        |
|----|--------|
| 72 | 0      |
| 73 | 1.0917 |
| 74 | 1.6674 |
| 75 | 2.0904 |
| 76 | 2.4411 |
| 77 | 2.7473 |

$R = 1.625 d$  Brater & King







D. Mark Goodwin & Associates, P.A.  
Consulting Engineers and Surveyors

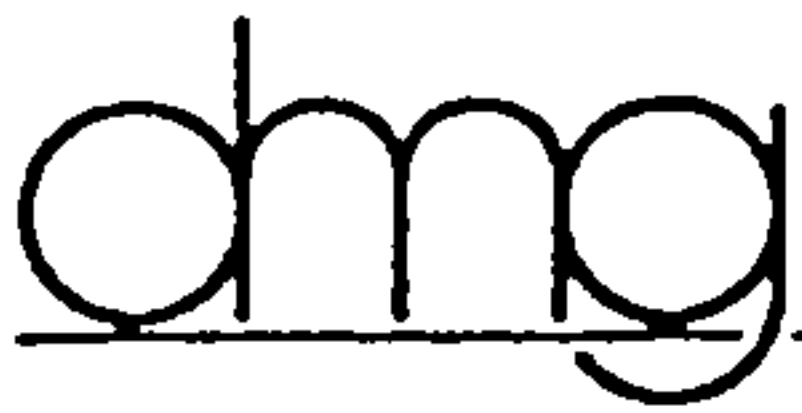
PROJECT WESTPARK APTS  
SUBJECT DRAINAGE CALCS  
BY GJK DATE 2-9-95  
CHECKED \_\_\_\_\_ DATE \_\_\_\_\_  
SHEET 19 OF \_\_\_\_\_

| ELEVATION | AREA | STORAGE (AC-FT) |
|-----------|------|-----------------|
| 72        | 6528 | 0               |
| 73        | 6528 | 0.1499          |
| 74        | 7982 | 0.3164          |
| 75        | 7982 | 0.4997          |
| 76        | 7982 | 0.6829          |
| 77        | 7982 | 0.8661          |

FROM HYMO OUTPUT sheets 20-23

Peak  $Q = 2.697$  CFS  $< 3.0$  CFS OK  
MAX WATER SURFACE = 76.835  
MAX WATER STORAGE = 0.8360 AC-FT





D. Mark Goodwin & Associates, P.A.  
Consulting Engineers and Surveyors

PROJECT WEST PARK APTS  
SUBJECT STORM SEWER  
BY TCM DATE 28 JUN 95  
CHECKED \_\_\_\_\_ DATE \_\_\_\_\_  
SHEET 24 OF \_\_\_\_\_

\* HEDGES MINI STORAGE

- Q IN STORM SEWER PARADISE BLVD.

OFFSITE FLOWS

NUNZIO AVE + WEST 1/2 EAGLE RANCH + PARADISE BLVD SOUTH 1/2  
2.19 cfs + 7.95 cfs + 2.19 cfs

$$Q_T = 12.33 \text{ cfs} \quad V = 0.4508 \text{ ACRE-FEET}$$

FROM AMENDED DRAINAGE REPORT 1/4 MAR 95

ONSITE FLOWS

POND DISCHARGE

$$Q = 3.819 \text{ cfs} \quad V = 0.1523 \text{ ACRE-FEET} \quad \text{FROM ORIGINAL REPORT 3-15-95}$$

TOTAL FLOW FROM HEDGES SITE

$$Q = \underline{16.15 \text{ cfs}} \quad V = 0.6031 \text{ ACRE-FEET}$$

(SEE APPENDIX C)

\* WEST PARK APARTMENTS

OFFSITE FLOWS

PARADISE BLVD NORTH 1/2 & EAGLE RANCH WEST 1/2 - STORM INLETS  
ARE FOR NUISANCE FLOWS ONLY NO FLOW CONSIDERED.

ONSITE FLOWS

$$Q = 10.61 \text{ cfs} \quad V = 0.1377 \text{ ACRE-FEET}$$

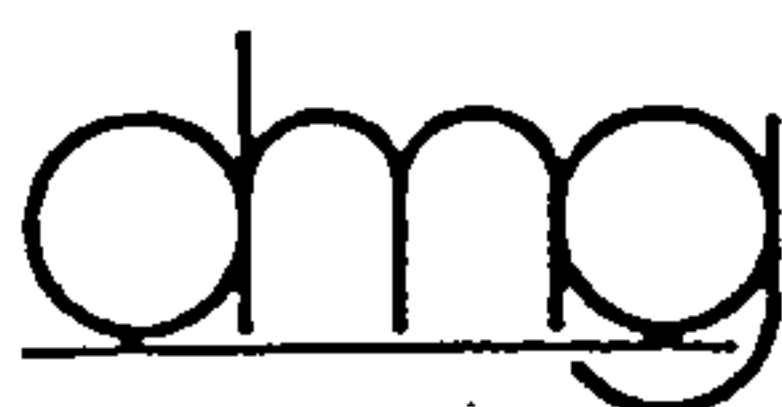
POND DISCHARGE INTO STORM SEWER SYSTEM

TOTAL FLOW FROM WEST PARK SITE

$$Q = \underline{10.61 \text{ cfs}} \quad V = 0.1377 \text{ ACRE-FEET}$$

(SEE SHEET 14)





D. Mark Goodwin & Associates, P.A.  
Consulting Engineers and Surveyors

PROJECT WEST PARK APTS  
SUBJECT DRAINAGE CALCS  
BY GJK DATE 7-19-95  
CHECKED \_\_\_\_\_ DATE \_\_\_\_\_  
SHEET 25 OF \_\_\_\_\_

• DESIGN PARADISE STORM DRAIN (PER GLENN JURGENSEN, FRED AGUIRRE, JOHN CURTIN & GREG KREVIK)

- FLOW WILL BE IN 18" RCP TO THE WESTERN MOST AG SPANOS INLET IN PARADISE.

- FLOW ALLOWABLE FROM INLET IN 18" RCP @ 0.5% IS 7.5 CFS.

$$\begin{aligned}\text{TOTAL FLOW UNDERGROUND} \\ &= 16.15 + 10.61 \\ &= 26.76 \text{ CFS}\end{aligned}$$

$$\begin{aligned}\text{TOTAL FLOW TO COME OUT OF INLET} \\ &= 26.76 - 7.5 \\ &= 19.26 \text{ CFS}\end{aligned}$$

- CAPACITY OF NORTH SIDE OF PARADISE BLVD.

$$S = 0.5\%$$

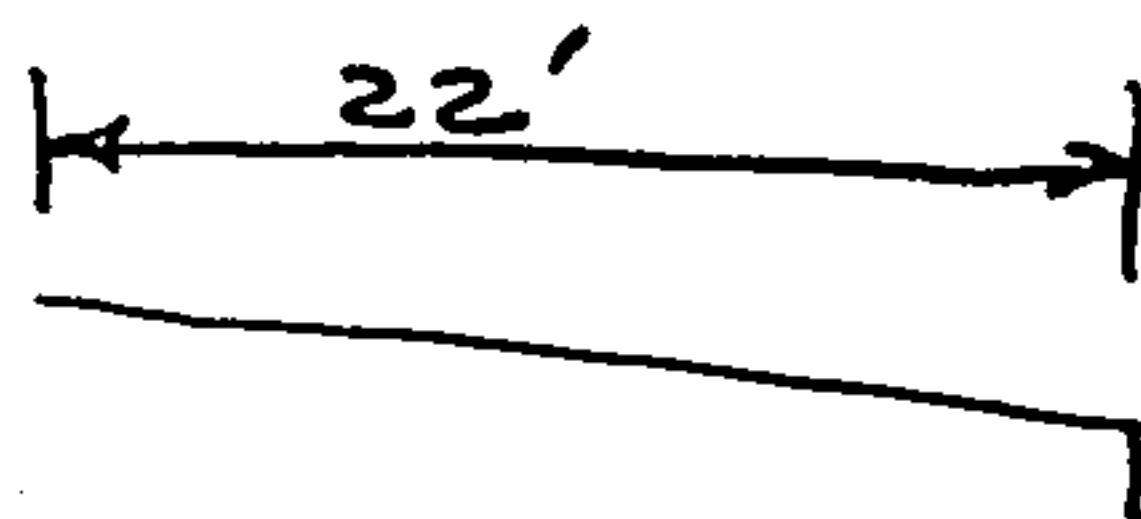
$$d = 0.565$$

$$WP = 24.565$$

$$A = 5.845$$

$$V = 2.3734 \text{ F/S}$$

$$Q = 13.873 \text{ CFS}$$



$$.125 + .02(22) = .565'$$

- AMOUNT THAT SPILLS OVER TO SOUTH HALF

$$= 19.26 - 13.873 + 1.45 + 4.16$$

$$= 10.997 \text{ CFS}$$

COMBINED SURFACE FLOW  
IN PARADISE BLVD

Additional ASPHALT AND ASPHALT CURB WILL BE  
REQUIRED TO DIRECT FLOW TO THE SOUTH END  
OF THE CUL DE SAC AND INTO THE STATE  
INLET. (SEE APPENDIX C - HEDGES REPORT)

- FIND AMOUNT THAT GOES INTO NEXT SINGLE "A"

FROM SHEET 26

$$Q = 6.1$$

AMOUNT THAT GOES BY INLET

$$13.873 - 6.1 = 7.773 \text{ CFS}$$





D. Mark Goodwin & Associates, P.A.  
Consulting Engineers and Surveyors

PROJECT WESTPARK APTS  
SUBJECT DRAINAGE CALCS  
BY GJK DATE 7-19-95  
CHECKED \_\_\_\_\_ DATE \_\_\_\_\_  
SHEET 27 OF \_\_\_\_\_

FIND NEW  $d$  FOR WEST SINGLE "A" INLET

$$d = 0.47$$

$$S = 0.5\%$$

$$WP = 19.72$$

$$A = 3.79$$

$$V = 2.06 \text{ F/S}$$

$$Q = 7.803 \text{ cfs} \approx 7.773 \text{ cfs} \text{ O.K.}$$

$Q_{\text{inlet from slot 26}}$

$$4.2 \text{ cfs}$$

FLOW THAT GOES BY INLET THROUGH CUL-DE-SAC

$$7.773 - 4.2 = 3.573 \text{ cfs}$$

THIS FLOW WILL ENTER THE LOWER DETENTION POND  
PER THE AG SPANOS DRAINAGE REPORT (APPENDIX B)

- TOTAL FLOW OF PARADISE BLVD BOTH SURFACE  
AND UNDERGROUND TO ENTER UPPER POND.

$$7.5 + 6.1 + 4.2 = 17.8 \text{ cfs}$$

- TOTAL FLOW PER AG SPANOS

$$16.8 \text{ cfs}$$

- THE ADDED 1 cfs TO THE UPPER POND WILL NOT  
OVERFLOW THE POND. THERE IS 2 FT OF FREEBOARD  
NOW AND THIS WILL HAVE MINIMAL IMPACT.