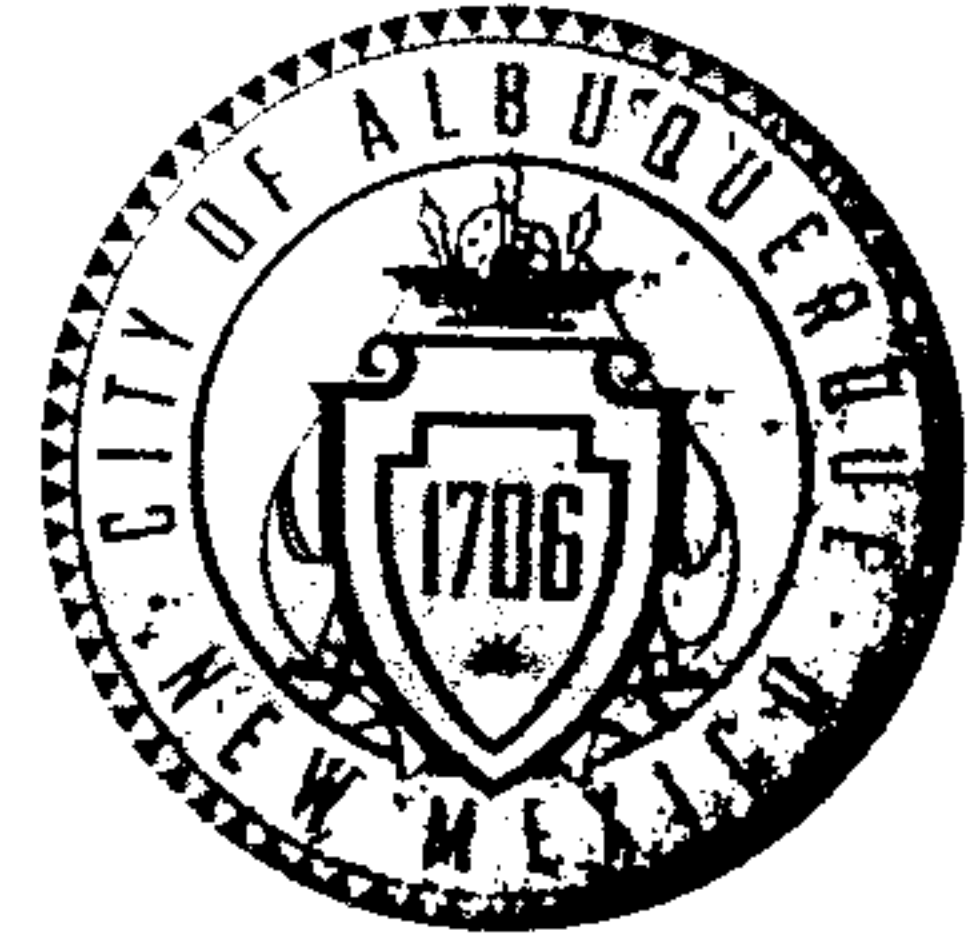


# CITY OF ALBUQUERQUE



October 1, 2010

Lawrance D. Read, P.E.  
**Larry Read & Associates, Inc.**  
2430 Midtown Place, NE Ste. C  
Albuquerque, NM 87107

**Re: Saint Micael All Angles Church, 715 Montano,  
Permanent Certificate of Occupancy - Approved  
Engineer's Stamp dated: 12-18-09 (F-14/D042)  
Certification dated 09-29-10**

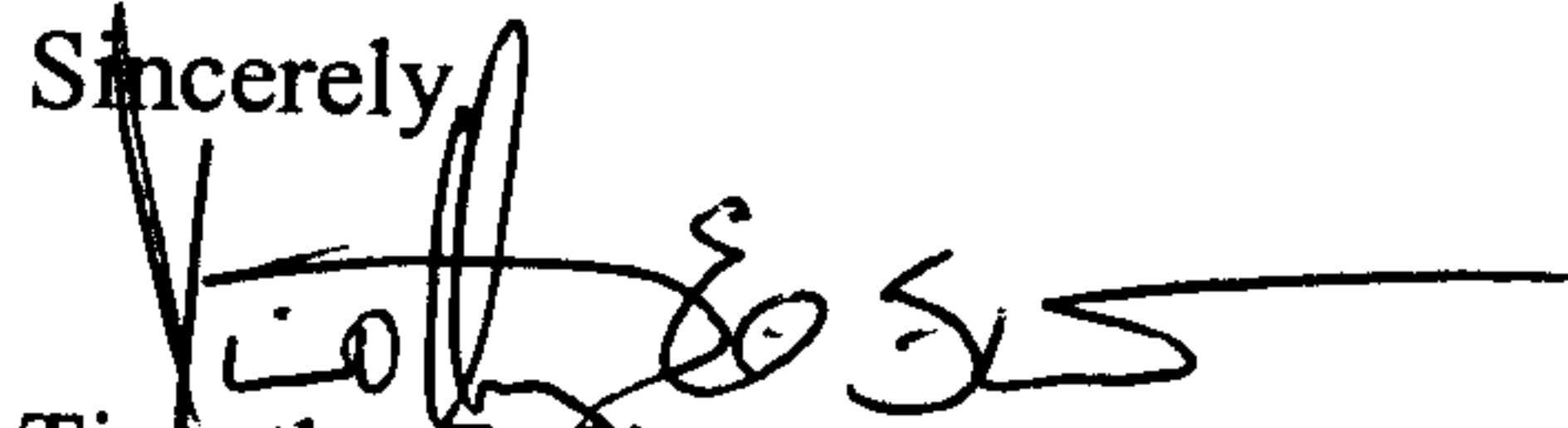
Dear Mr. Read,

Based upon the information provided in the Certification received 10-01-10, the above referenced Certification is approved for a release of a Permanent Certificate of Occupancy by Hydrology.

PO Box 1293

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

Albuquerque

Sincerely,  


NM 87103

Timothy E. Sims  
Plan Checker—Hydrology Section  
Development and Building Services

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

C: CO Clerk—Katrina Sigala  
File

# DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Saint Michael All Angles Church  
DRB #: \_\_\_\_\_ EPC#: \_\_\_\_\_

ZONE MAP/DRG. FILE #: F-14/D-42  
WORK ORDER#: \_\_\_\_\_

LEGAL DESCRIPTION: Lots 5A, 9A, and 10A, Van Addition #10  
CITY ADDRESS: 6501 Eagle Rock Ave., NE

ENGINEERING FIRM: LARRY READ & ASSOCIATES, INC  
ADDRESS: 2430 Midtown Suite C  
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: LARRY READ  
PHONE: 237-8421  
ZIP CODE: 87107

OWNER: Saint Michael AA Church  
ADDRESS: 719 Montano Blvd. NW  
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: \_\_\_\_\_  
PHONE: \_\_\_\_\_  
ZIP CODE: \_\_\_\_\_

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:

## CHECK TYPE OF APPROVAL SOUGHT:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1<sup>st</sup> 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

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

## WAS A PRE-DESIGN CONFERENCE ATTENDED:

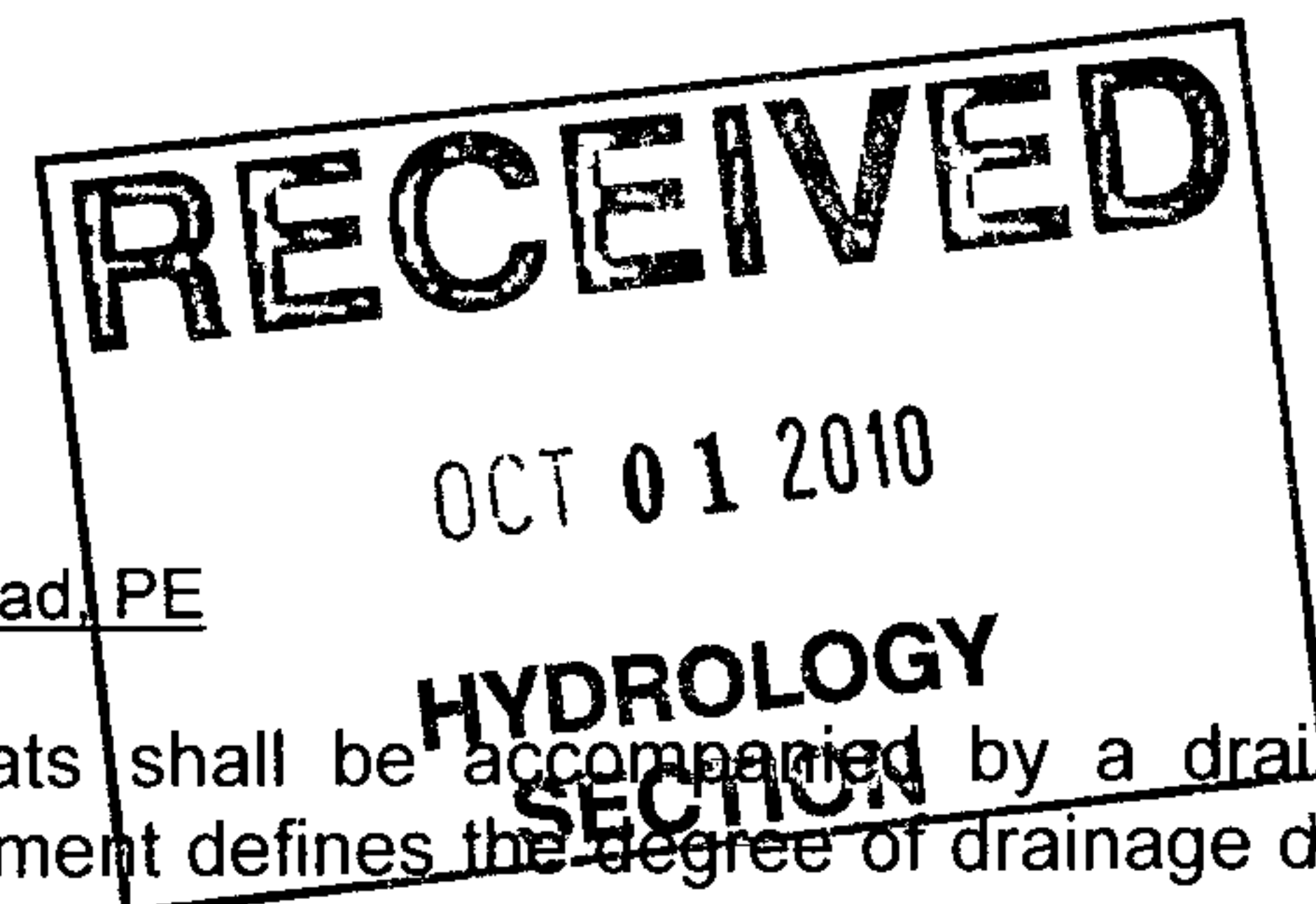
- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: May 29, 2010

BY: Larry D. Read, PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

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



# CITY OF ALBUQUERQUE



September 24, 2010

Daniel Kemme, R.A.  
Dekker Perich Sabatini  
7601 Jefferson NE Suite 100  
Albuquerque, NM 87109

**Re: St. Michael and All Angels Episcopal Church – Ministry Complex Addition  
715 Montano Road NW  
Permanent Certificate of Occupancy – Transportation Development  
DRB Approved Site Plan 1007922 (F14-D042)  
Certification dated 09-24-10**

Dear Mr. Kemme,

Based upon the information provided in your submittal received 09-24-10, 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, you can contact me at 924-3991.

Sincerely,

Kristal D. Metro, P.E.  
Traffic Engineer, Planning Dept.  
Development and Building Services

C: CO Clerk  
File



(REV 12/2005)

LEGAL DESCRIPTION: LOT No 9A AND 10A  
CITY ADDRESS: ZAPF - VAN ADDITION #10

OWNER: St. Michael of All Angels CONTACT: Steve Shelly  
ADDRESS: 601 Montana Rd. PHONE: 350-5801  
CITY, STATE: Albuquerque, NM ZIP CODE: 87107

SURVEYOR: Way John Surveying CONTACT: Tim  
ADDRESS: 330 Louisiana Blvd PHONE: 255-2092  
CITY, STATE: Albuquerque, NM ZIP CODE: 87106

CONTRACTOR: Britton Construction CONTACT: Michelle Culver  
ADDRESS: 6005 Coronado NE suite D PHONE: 268-2626  
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

☐ 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)

☐ 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)

YES  
X NO  
COPY PROVIDED

DATE SUBMITTED: 9-24-2010 BY: D/P/S

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.

September 24, 2010

Mr. Nilo Salgado Hernandez  
City of Albuquerque  
Planning

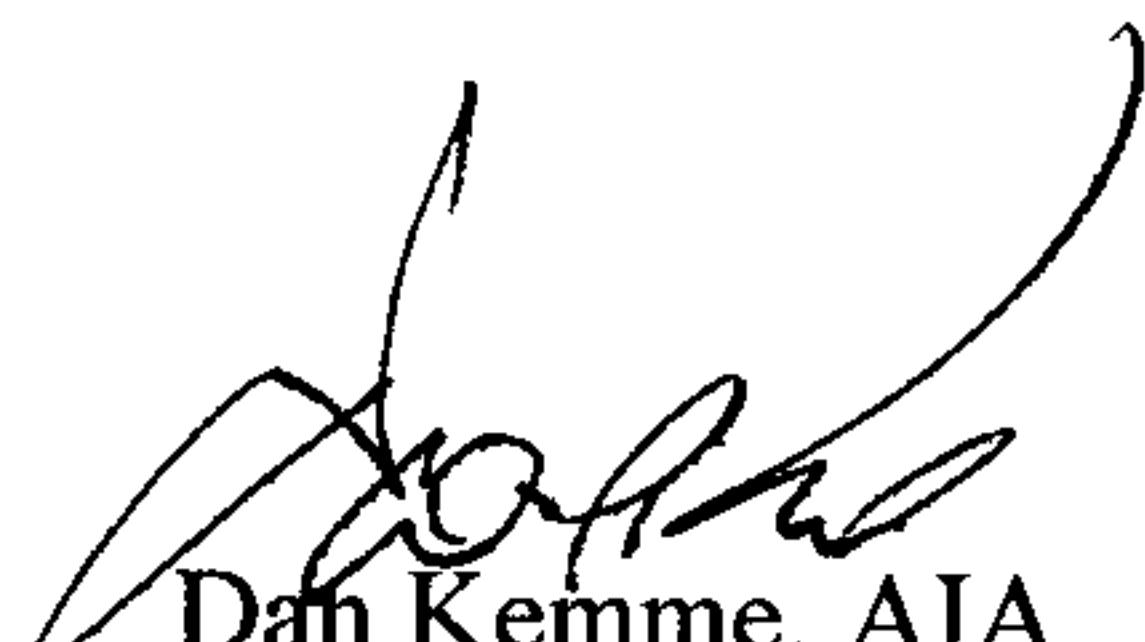
Re: Traffic Certification  
St. Michael & All Angels Episcopal Church – Ministry Complex Addition  
715 Montano, NW  
Albuquerque, NM 87107  
City Project No.: 1007922  
City Permit No.: 200992028

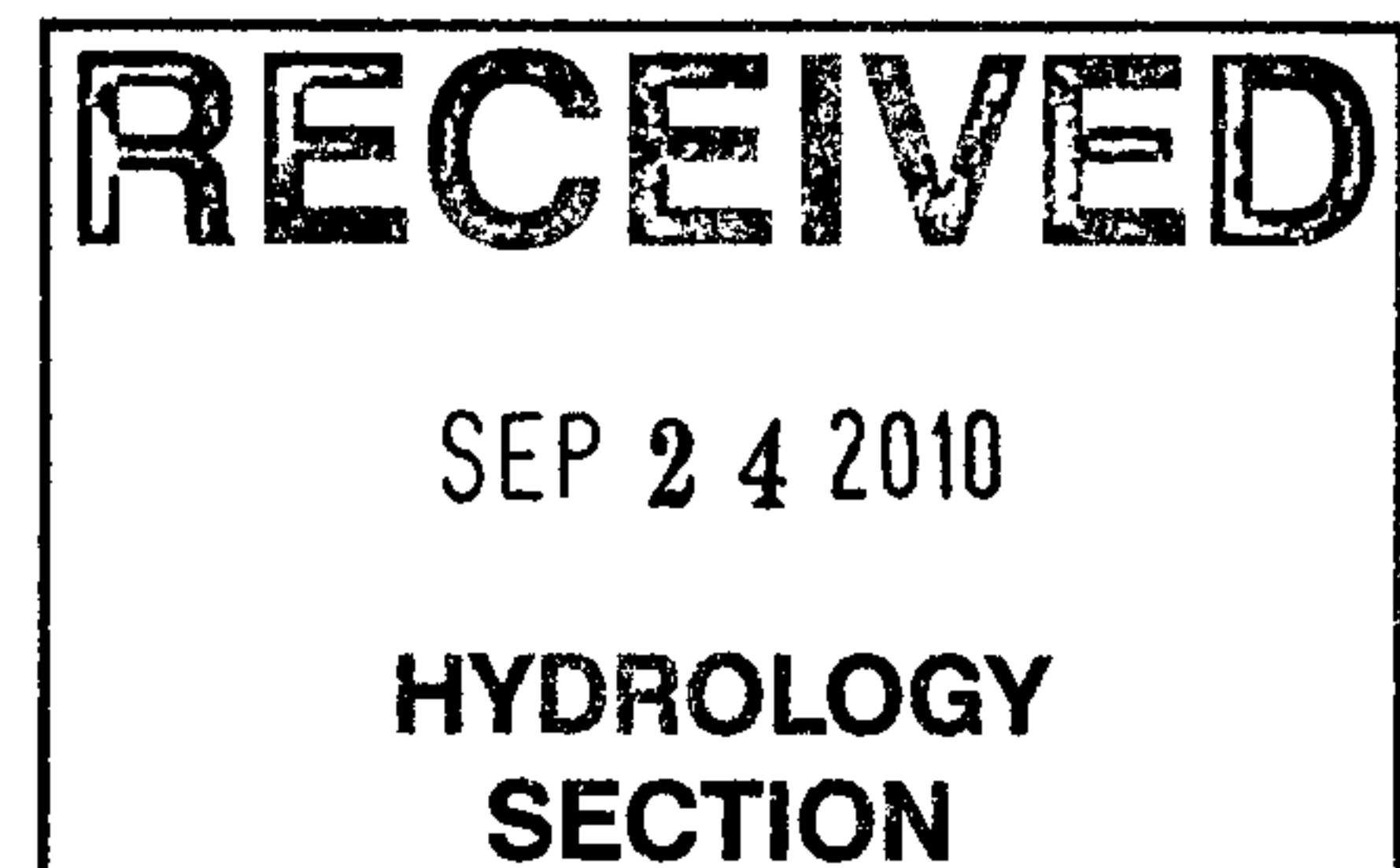
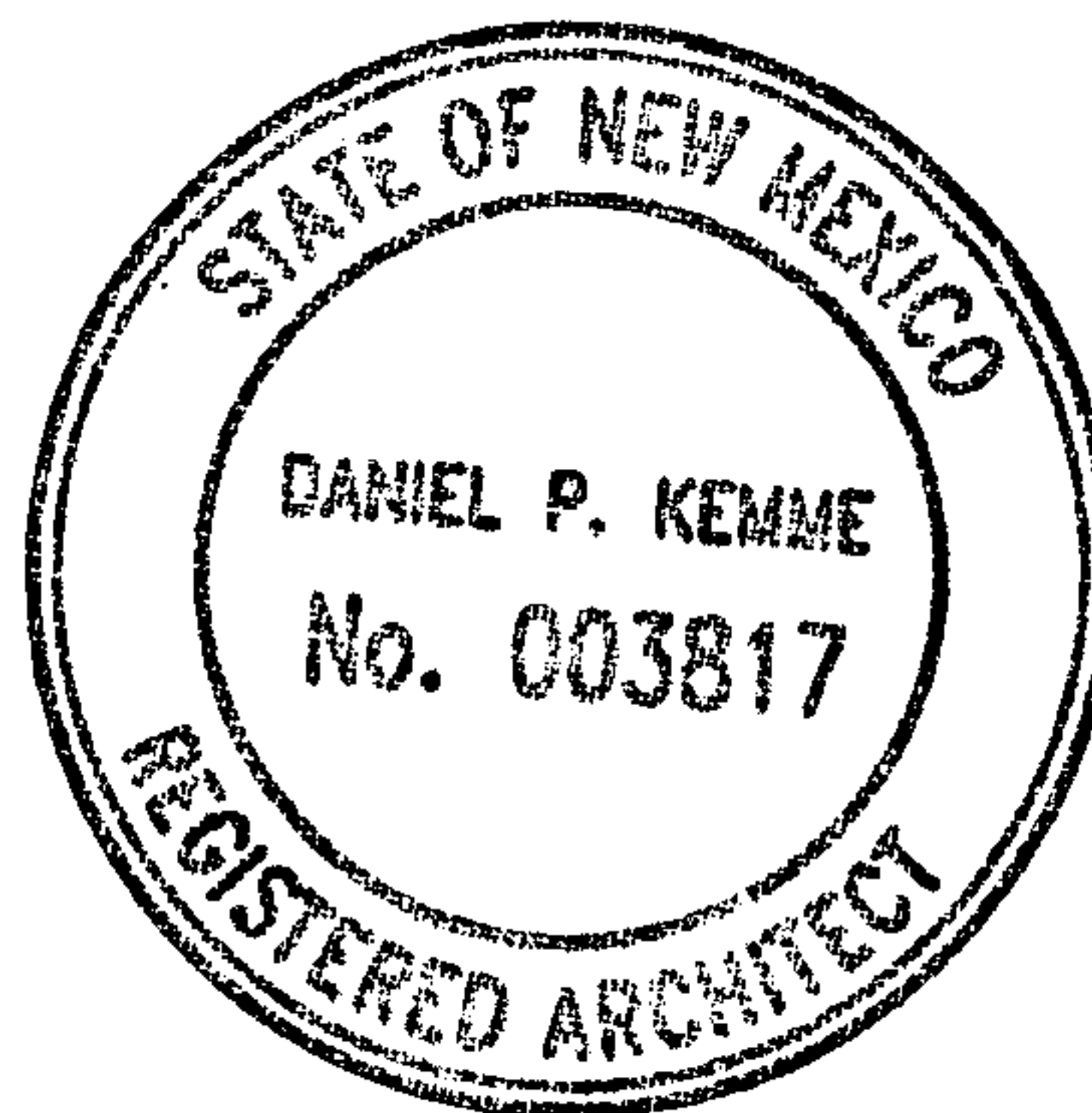
Mr. Hernandez,

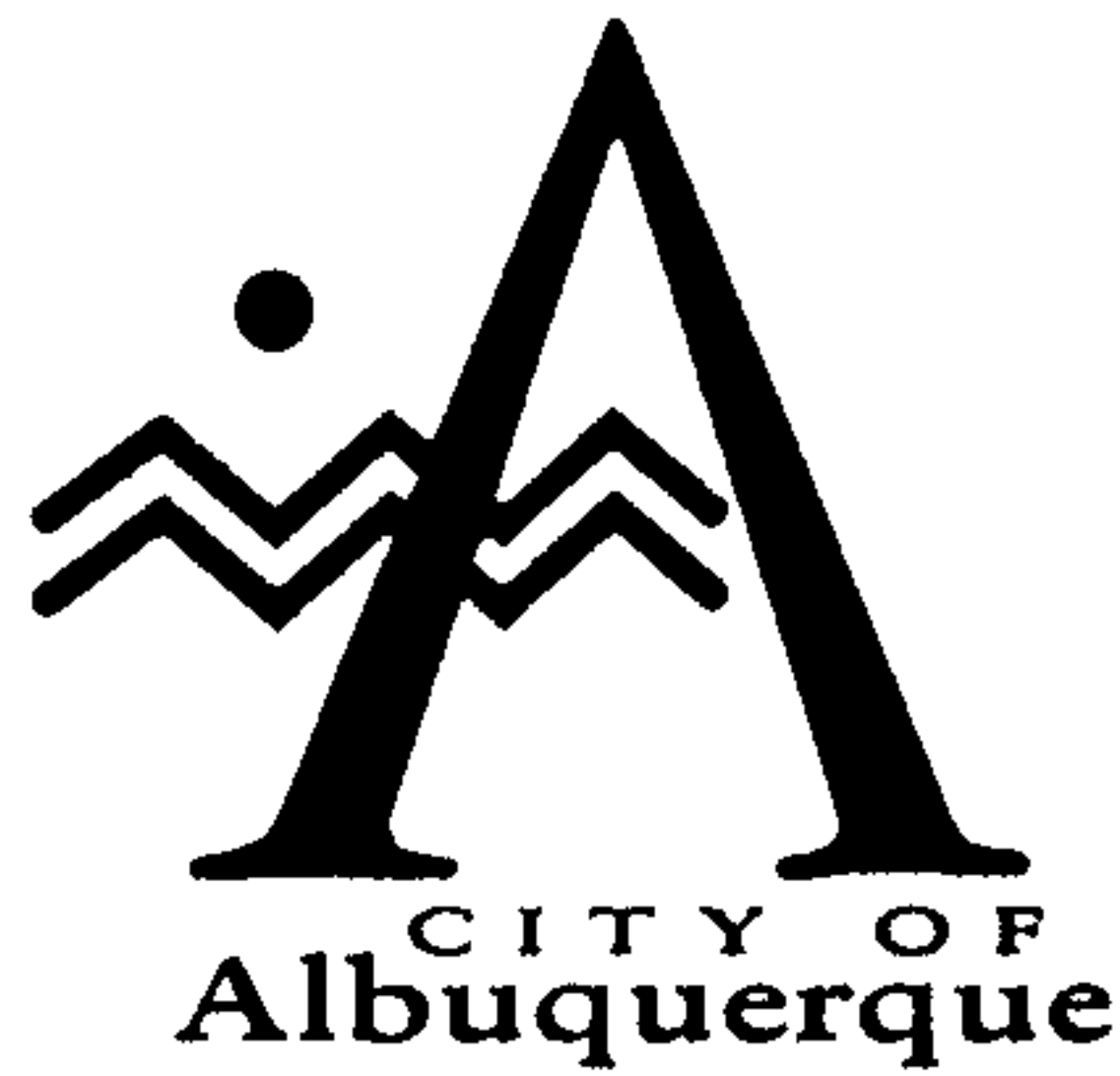
This is to confirm that the constructed parking lot and drives at the above referenced project are in substantial compliance with the approved DRB Site Development Plan for this project.

Very truly yours,

**Dekker/Perich/Sabatini Ltd.**

  
Dan Kemme, AIA  
Principal





May 1, 1998

Chris Weiss  
C.L. Weiss Engineering  
P.O. Box 97  
Sandia Park, New Mexico 87047

RE: ENGINEER CERTIFICATION FOR ST. MICHAELS & ALL ANGELS EPISCOPAL  
CHURCH (F14-D42) CERTIFICATION STATEMENT DATED 4/3/98

Dear Mr. Weiss:

Based on the information provided on your April 6, 1998 submittal, the request for the release for Certificate of Occupancy is not acceptable because of the following concerns:

- 1 The ponding within the courtyard is not acceptable. The area is taking in developed flows from the roof area, retention ponds are not allowed per the Drainage Ordinance.

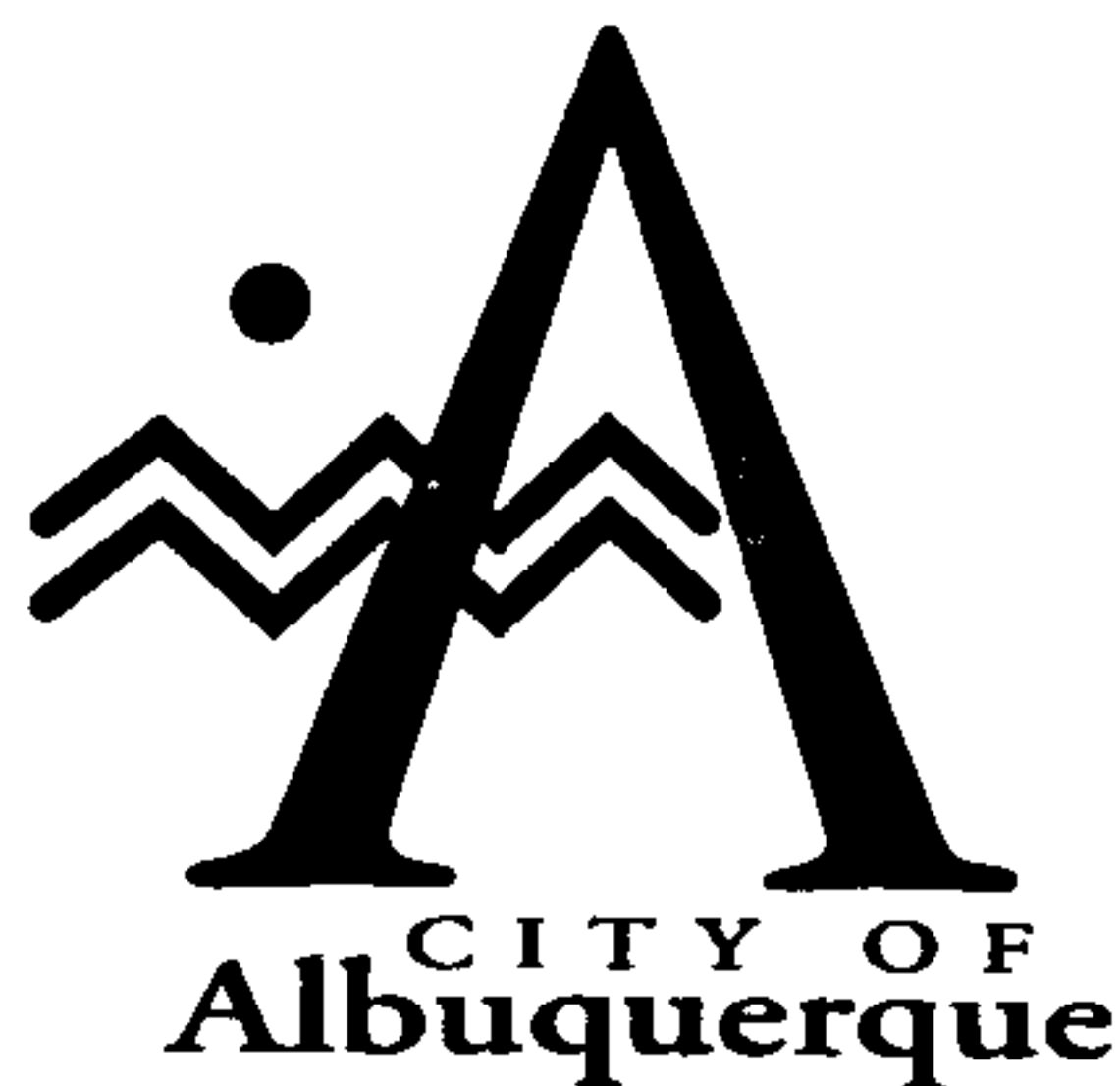
If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia  
File

Sincerely

Bernie J. Montoya CE  
Associate Engineer





July 11, 1996

Martin J. Chávez, Mayor

Chris Weiss  
C.L. Weiss Engineering  
P.O. Box 97  
Sandia Park, NM 87047

**RE: ST. MICHAEL AND ALL ANGELS EPISCOPAL CHURCH (F14-D42)  
GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT APPROVAL.  
ENGINEER'S STAMP DATED JUNE 25, 1996.**

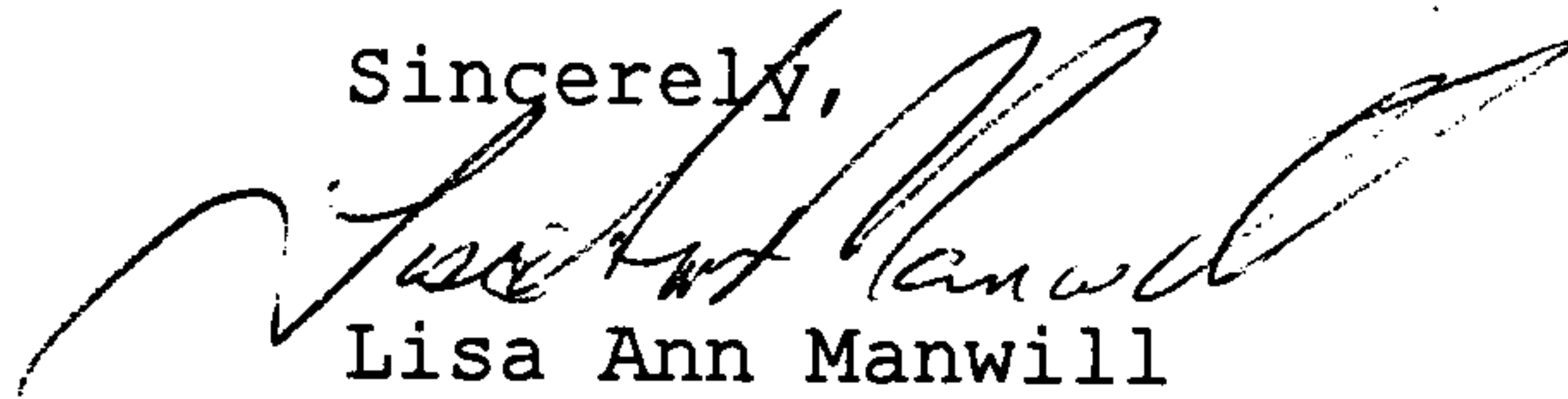
Dear Mr. Weiss:

Based on the information provided on your June 25, 1996 submittal, the above referenced project is approved for Building Permit.

Prior to Certificate of Occupancy approval, an Engineer's Certification is required.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,



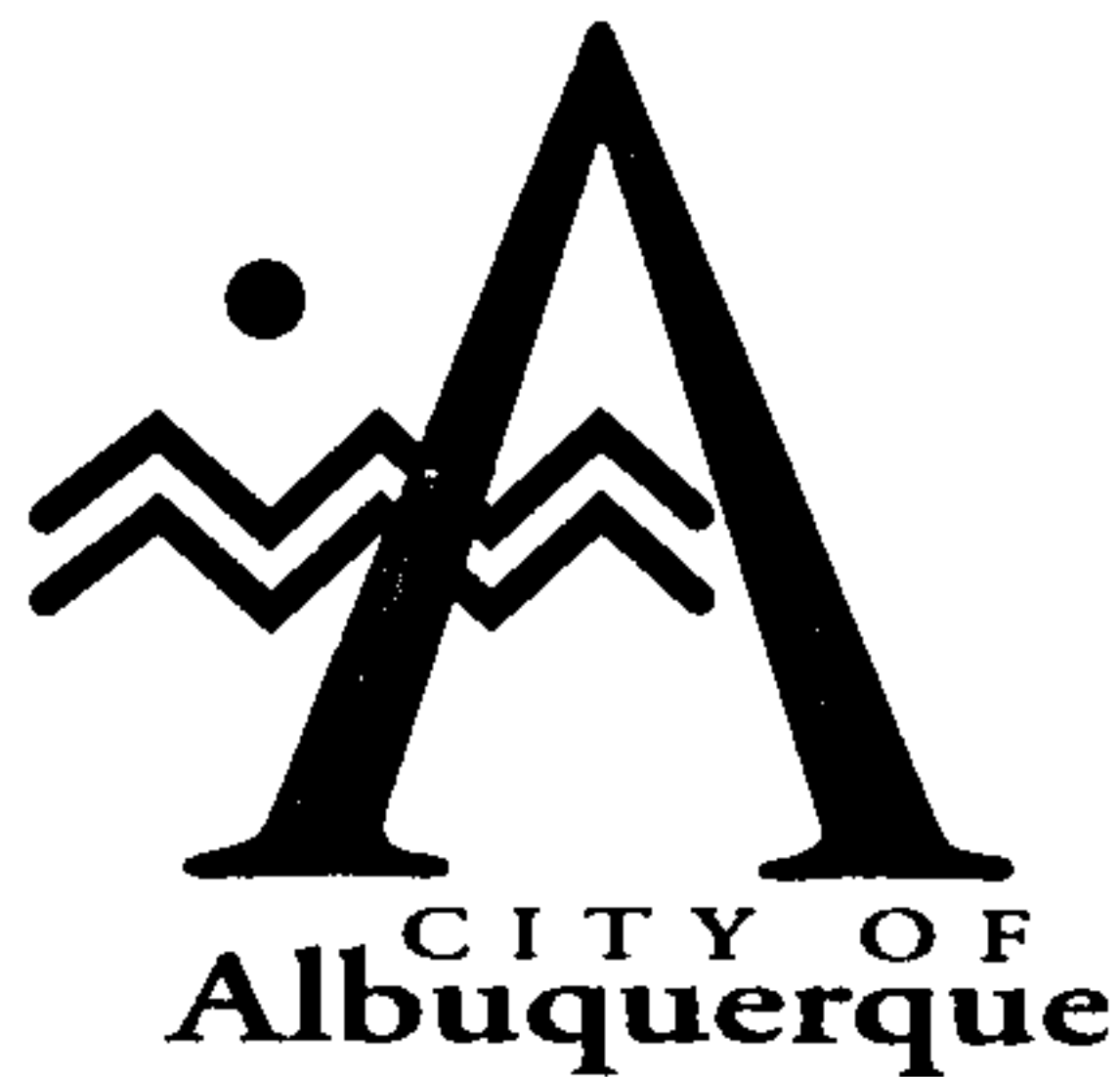
Lisa Ann Manwill  
Engineering Assoc./Hyd.

c: Andrew Garcia  
File

Good for You, Albuquerque!







June 13, 1996

Martin J. Chávez, Mayor

Chris Weiss  
C.L. Weiss Engineering  
P.O. Box 97  
Sandia Park, NM 87047

**RE: ST. MICHAEL AND ALL ANGELS EPISCOPAL CHURCH (F14-D42,  
GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT APPROVAL.  
ENGINEER'S STAMP DATED MAY 29, 1996.**


Dear Mr. Weiss:

Based on the information provided on your June 3, 1996 submittal, the City has the following comments:

1. Control your developed discharge release to the historical rate. You will need to change the pipe size from your pond to the future storm drain system or add an orifice plate.
2. You will be required to bond for the stub out from the pond to the future storm drain system. Please submit an infrastructure list. If this job is to be done in phases, a phasing plan will need to be submitted.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

  
Lisa Ann Manwill  
Engineering Assoc./Hyd.

c: Andrew Garcia  
File





# Habiger - Site Calculations

## CALCULATIONS:

Calculations are based on the Drainage Design Criteria for City of Albuquerque, Section 22.2, DPM, Vol 2, dated Jan., 1993

### ON-SITE

AREA OF SITE: 72093 SF = 1.66 Ac.

#### HISTORIC FLOWS:

##### On-Site Historic Land Condition

|            |   |       |    |
|------------|---|-------|----|
| Area a     | = | 0     | SF |
| Area b     | = | 775   | SF |
| Area c     | = | 43399 | SF |
| Area d     | = | 27919 | SF |
| Total Area | = | 72093 | SF |

#### DEVELOPED FLOWS:

##### On-Site Developed Land Condition

|            |   |       |    |
|------------|---|-------|----|
| Area a     | = | 0     | SF |
| Area b     | = | 12008 | SF |
| Area c     | = | 8500  | SF |
| Area d     | = | 51585 | SF |
| Total Area | = | 72093 | SF |

#### EXCESS PRECIPITATION:

|              |        |
|--------------|--------|
| Precip. Zone | 1      |
| Ea           | = 0.44 |
| Eb           | = 0.67 |
| Ec           | = 0.99 |
| Ed           | = 1.97 |

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

$$\text{Weighted E} = \frac{EaAa + EbAb + EcAc + EdAd}{Aa + Ab + Ac + Ad}$$

|            |   |          |             |   |          |
|------------|---|----------|-------------|---|----------|
| Historic E | = | 1.37 in. | Developed E | = | 1.64 in. |
|------------|---|----------|-------------|---|----------|

On-Site Volume of Runoff:  $V_{360} = E \cdot A / 12$

|                    |   |         |                     |   |         |
|--------------------|---|---------|---------------------|---|---------|
| Historic $V_{360}$ | = | 8207 CF | Developed $V_{360}$ | = | 9840 CF |
|--------------------|---|---------|---------------------|---|---------|

On-Site Peak Discharge Rate:  $Q_p = Q_{pa}Aa + Q_{pb}Ab + Q_{pc}Ac + Q_{pd}Ad / 43,560$

For Precipitation Zone 1

|          |   |      |          |   |      |
|----------|---|------|----------|---|------|
| $Q_{pa}$ | = | 1.29 | $Q_{pc}$ | = | 2.87 |
| $Q_{bb}$ | = | 2.03 | $Q_{pd}$ | = | 4.37 |

|                |   |         |                 |   |         |
|----------------|---|---------|-----------------|---|---------|
| Historic $Q_p$ | = | 5.7 CFS | Developed $Q_p$ | = | 6.3 CFS |
|----------------|---|---------|-----------------|---|---------|

### BASIN 1

|                     |   |          |   |         |              |   |
|---------------------|---|----------|---|---------|--------------|---|
| Area of Basin flows | = | 36755 SF | = | 0.8 Ac. | Precip. Zone | 1 |
|---------------------|---|----------|---|---------|--------------|---|

The following calculations are based on Treatment areas as shown in table to the right

Off-Site Weighted Excess Precipitation (see formula above)

|            |   |          |
|------------|---|----------|
| Weighted E | = | 1.78 in. |
|------------|---|----------|

Off-Site Volume of Runoff (see formula above)

|           |   |         |
|-----------|---|---------|
| $V_{360}$ | = | 5437 CF |
|-----------|---|---------|

Off-Site Peak Discharge Rate: (see formula above)

|       |   |         |
|-------|---|---------|
| $Q_p$ | = | 3.4 cfs |
|-------|---|---------|

| TREATMENT |       |
|-----------|-------|
| A         | = 0%  |
| B         | = 15% |
| C         | = 0%  |
| D         | = 85% |

#### BASIN 1 - POND SIZE

The proposed pond is sized as follows:

| POND VOLUME CALC |        | AREA (SF) | VOLUME (CF)   |
|------------------|--------|-----------|---|
| Area of contour  | 4971.5 | = 51      | <div> <div>Total Volume Provided:</div> <div>10424</div> </div> |
|                  | 4972.0 | = 321     |   |
|                  | 4973.0 | = 8234    |   |
|                  | 4973.5 | = 15978   |   |
|                  |        |           | 93 4278 6053  |

\*\*Pond Elevation = 4973.1 for 100-year storm

Note: This pond is temporary until the construction of Montano Phase 1B. At that time, the proposed storm drain inlet located within the ponding area will be installed. Landscaped area contains nuisance flows of 150 cf before backing up into the parking area.

### BASIN 2

|                     |   |         |   |         |              |   |
|---------------------|---|---------|---|---------|--------------|---|
| Area of Basin flows | = | 9422 SF | = | 0.2 Ac. | Precip. Zone | 1 |
|---------------------|---|---------|---|---------|--------------|---|

The following calculations are based on Treatment areas as shown in table to the right

Off-Site Weighted Excess Precipitation (see formula above)

## Habiger - Site Calculations

Retention?

|   |   |          |
|---|---|----------|
| Weighted E  | = | 0.96 in. |
| Off-Site Volume of Runoff (see formula above)     |   |          |
| V360  | = | 752 CF   |
| Off-Site Peak Discharge Rate: (see formula above) |   |          |
| Qp  | = | 0.6 cfs  |

| TREATMENT |     |
|-----------|-----|
| A =       | 0%  |
| B =       | 10% |
| C =       | 90% |
| D =       | 0%  |

### BASIN 2 - POND SIZE

The proposed pond is sized as follows:

|                 | <u>POND VOLUME CALC</u> |   | AREA (SF) | VOLUME (CF) |                        |
|-----------------|-------------------------|---|-----------|-------------|------------------------|
| Area of contour | 4973.5                  | = | 189       | 1086        | Total Volume Provided: |
|                 | 4974.0                  | = | 4155      |             | 1086                   |

\*\*Pond Elevation = 4973.4 for 100-year storm

Note: This pond is permanent. Flows will seep into the ground/sand between the brick pavers. If flows exceed the calculated amount they will overflow into Basin 1 at the southwest corner of Basin 2. Maximum elevation potential is 4973.7. With FF elevations of 4974.6 (west), 4974.5 (east) and 4975.8 (south), at no time will the ponded flows endanger the existing / proposed structures.

### BASIN 3

|                       |         |   |         |              |   |
|-----------------------|---------|---|---------|--------------|---|
| Area of Basin flows = | 6065 SF | = | 0.1 Ac. | Precip. Zone | 1 |
|-----------------------|---------|---|---------|--------------|---|

The following calculations are based on Treatment areas as shown in table to the right

Off-Site Weighted Excess Precipitation (see formula above)

|   |   |          |
|---|---|----------|
| Weighted E  | = | 1.06 in. |
| Off-Site Volume of Runoff (see formula above)     |   |          |
| V360  | = | 536 CF   |
| Off-Site Peak Discharge Rate: (see formula above) |   |          |
| Qp  | = | 0.4 cfs  |

| TREATMENT |     |
|-----------|-----|
| A =       | 0%  |
| B =       | 70% |
| C =       | 0%  |
| D =       | 30% |

### BASIN 3 - POND SIZE

The proposed pond is sized as follows:

|                 | <u>POND VOLUME CALC</u> |   | AREA (SF) | VOLUME (CF) |                        |
|-----------------|-------------------------|---|-----------|-------------|------------------------|
| Area of contour | 4974.0                  | = | 1838      | 1350        | Total Volume Provided: |
|                 | 4974.5                  | = | 3561      |             | 1350                   |

\*\*Pond Elevation = 4974.3 for 100-year storm

Note: This playground pond is permanent.

### BASIN 4

|                       |          |   |         |              |   |
|-----------------------|----------|---|---------|--------------|---|
| Area of Basin flows = | 25595 SF | = | 0.6 Ac. | Precip. Zone | 1 |
|-----------------------|----------|---|---------|--------------|---|

The following calculations are based on Treatment areas as shown in table to the right

Off-Site Weighted Excess Precipitation (see formula above)

|   |   |          |
|---|---|----------|
| Weighted E  | = | 1.78 in. |
| Off-Site Volume of Runoff (see formula above)     |   |          |
| V360  | = | 3786 CF  |
| Off-Site Peak Discharge Rate: (see formula above) |   |          |
| Qp  | = | 2.4 cfs  |

| TREATMENT |     |
|-----------|-----|
| A =       | 0%  |
| B =       | 15% |
| C =       | 0%  |
| D =       | 85% |

Note: This Basin has historically discharged to Montano Blvd. and will continue to do so.

APR 29 1996