



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

March 16, 2004

Richard P. Bennett, Registered Architect
1104 Park Avenue SW
Albuquerque, NM 87102

Re: Certification Submittal for Final Building Certificate of Occupancy for
Asbury United Methodist, [H-21 / D1]
10000 Candelaria NE
Architect's Stamp Dated 03/15/04

Dear Mr. Bennett:

The TCL / Letter of Certification submitted on March 16, 2004 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Sincerely,

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

c: Engineer
Hydrology file
CO Clerk

Krista M.

Metro:

Please log in &
out, and file

thank
Litz

3-16-04
2:35 PM

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

H-21/D1

PROJECT TITLE: ASBURY UNITED METHODIST ZONE MAP/DRG. FILE #: H-21
 DRB #: 02DRB-01505 EPC#: 02EPC-00981 WORK ORDER#: _____

LEGAL DESCRIPTION: BLOCK 51, SNOW HEIGHTS ADDITION
 CITY ADDRESS: 10000 CANDELARIA BLVD. NE

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

CONTACT: _____
 PHONE: _____
 ZIP CODE: _____

OWNER: ASBURY UNITED METHODIST
 ADDRESS: 10000 CANDELARIA NE
 CITY, STATE: ALB., NM

CONTACT: _____
 PHONE: _____
 ZIP CODE: _____

ARCHITECT: RICK BENNETT ARCHITECTS
 ADDRESS: 1104 PARK AVE. SW
 CITY, STATE: ALB., NM

CONTACT: PATRICK WHELAN
 PHONE: 242-1859
 ZIP CODE: 87102

SURVEYOR: _____
 ADDRESS: _____
 CITY, STATE: _____

CONTACT: _____
 PHONE: _____
 ZIP CODE: _____

CONTRACTOR: UBC DOWNUM INC.
 ADDRESS: 321 LAS COLINAS
 CITY, STATE: ALB., NM

CONTACT: FRED DOWNUM
 PHONE: 410-3186
 ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

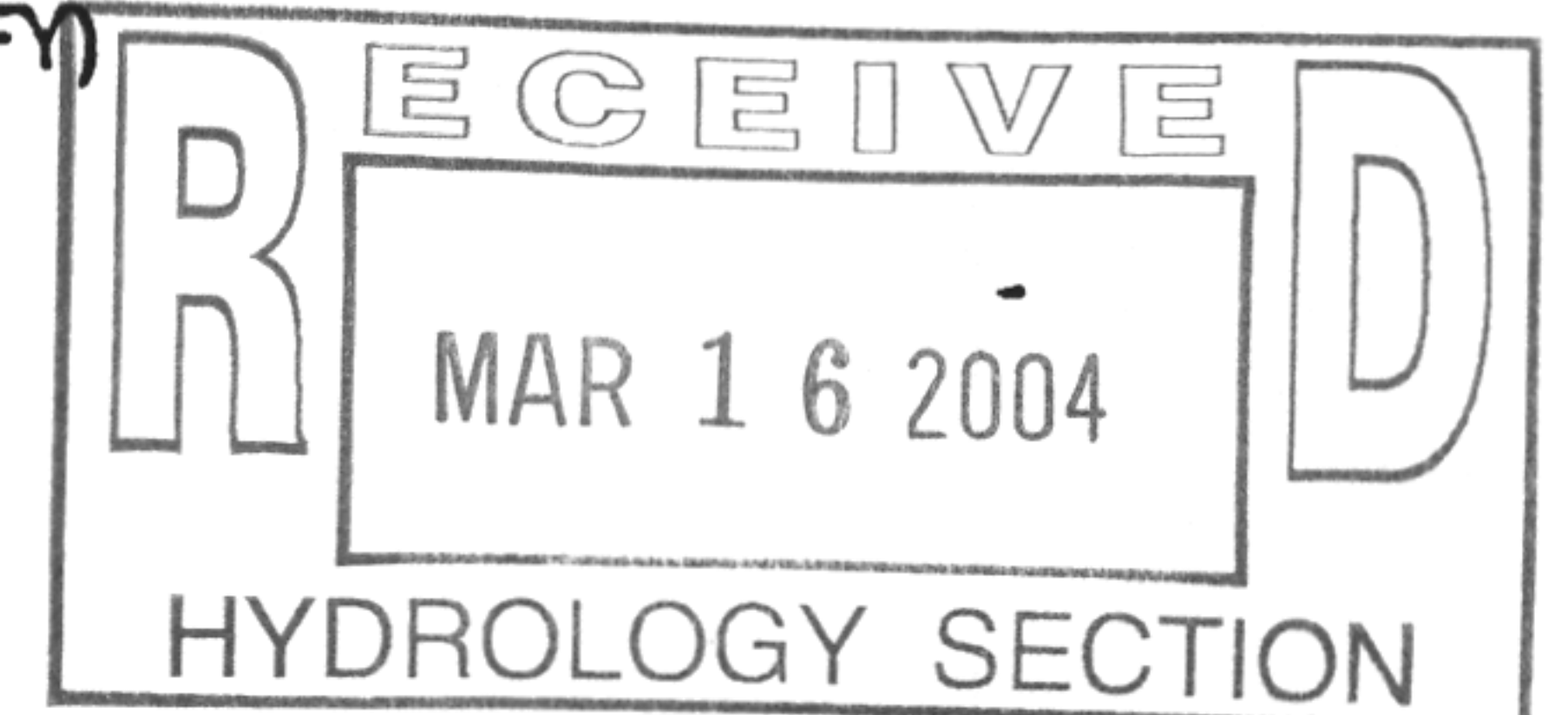
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL, *REQUIRES TCL or equal*
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☒ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION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

CHECK TYPE OF APPROVAL SOUGHT:

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

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED



DATE SUBMITTED: 3-16-04 BY: PATRICK WHELAN

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.



March 15, 2004

Traffic Engineer
City of Albuquerque
Planning Department
600 2nd Street NW
Albuquerque, NM 87102

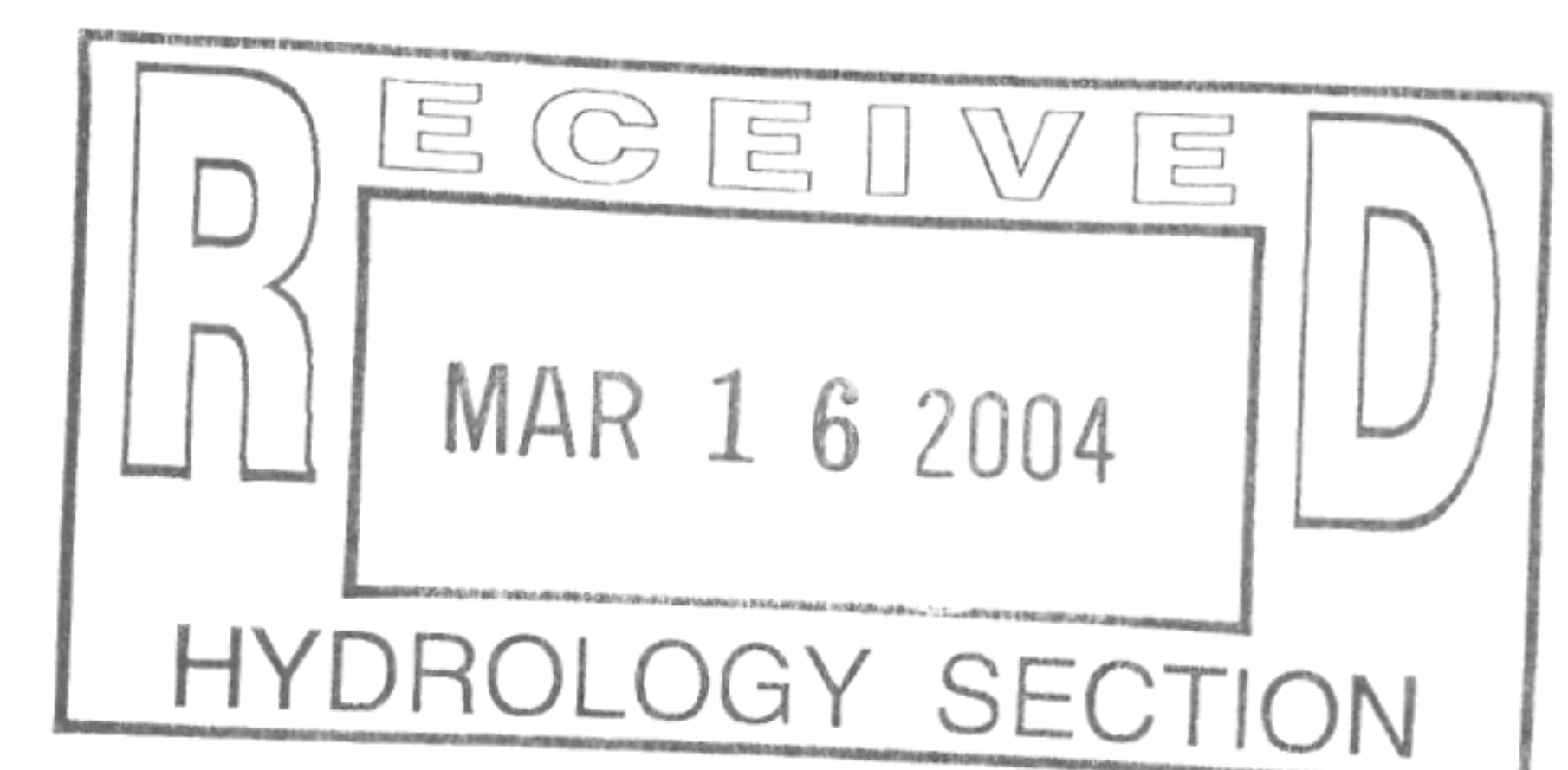
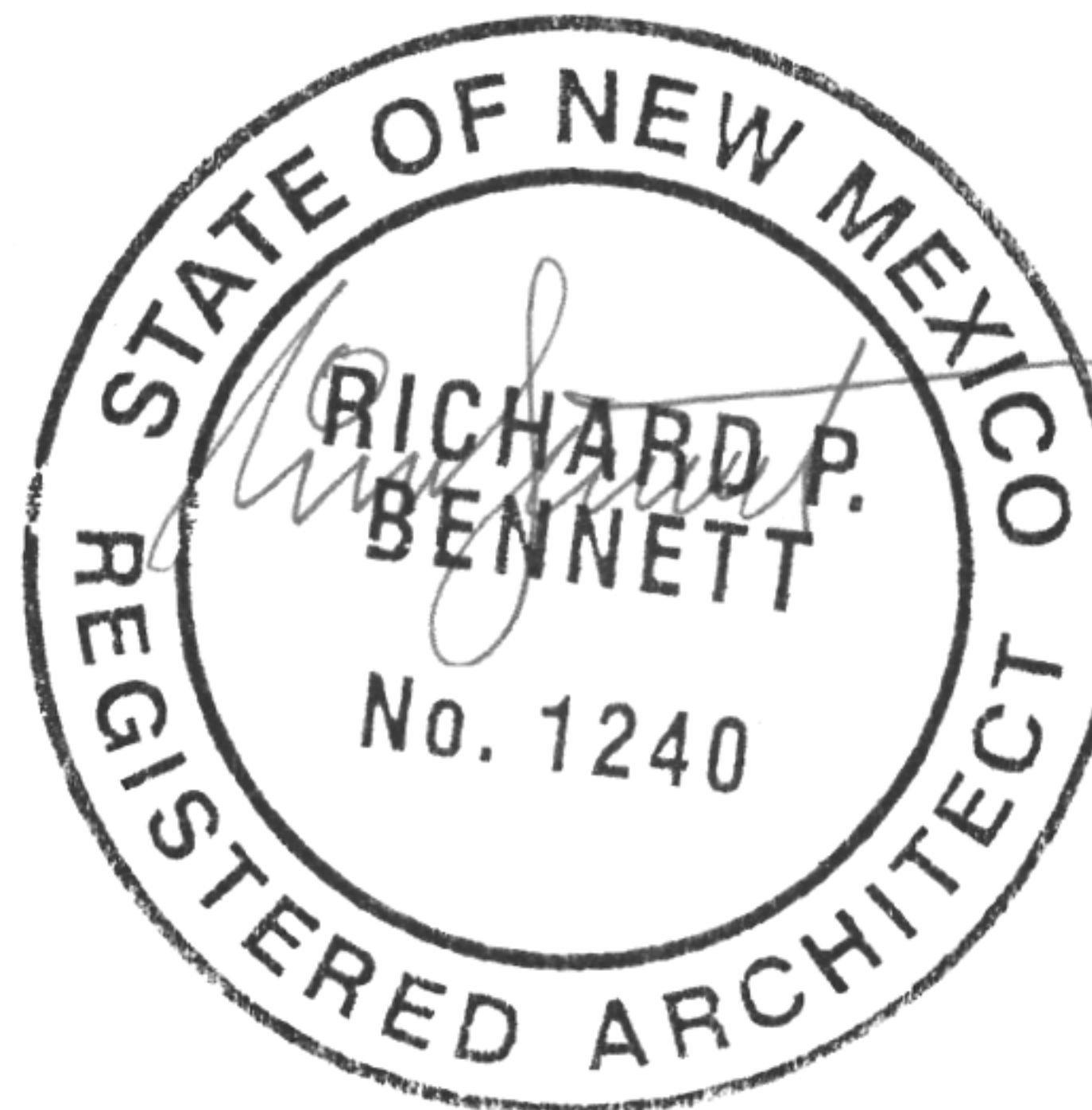
Dear Sir,

I hereby provide Certification that the Asbury United Methodist Church project at 10000 Candelaria Blvd. NE, has been built in substantial compliance with the approved Traffic Circulation Layout Plan, dated 10-09-02.

Sincerely,

A handwritten signature in cursive script, appearing to read "Rick Bennett", followed by a long horizontal line.

Rick Bennett, architect





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

**Planning Department
Transportation Development Services Section**

January 30, 2004

Richard P Bennet, Registered Architect
Rick Bennett Architects
1104 Park Ave SW
Albuquerque, NM 87102

Re: Approval of Temporary Certificate of Occupancy (C.O.) for
Asbury United Methodist Church, [H-21 / D1]
10000 Candelaria NE

Dear Mr. Bennett:

Based on the information provided on your submittal dated January 29, 2004, the above referenced project is approved for a 30-day Temporary C.O.

A Temporary C.O. has been issued allowing the outstanding H.C. ramp (ramp fronting Christine Street needs to be grinded down; tripping hazard to public) and missing Architect stamp (provide on certification letter) issues to be completed within this time period. When these remaining issues have been fully completed, are in substantial compliance, and a final Certification for Transportation has been resubmitted to the City's Hydrology office for approval, a Permanent C.O. will be issued.

The Certification package for Final C.O. must include an exact copy of the approved TCL, or signed off D.R.B. Site Plan, which is in each of the two City Permit Plan Sets—the contractor's City field set and the City's plan set in the basement of the Plaza Del Sol building. Package also must include a letter of certification on designer's letterhead- stamped with his seal, signed, and dated. Submit package along with fully completed Drainage Information Sheet to front counter personnel for log in and evaluation by Transportation.

If you have any questions, please call me at 924-3630.

Sincerely,

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

c: Engineer
Hydrology file
CO Clerk



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Planning Department Transportation Development Services Section

January 30, 2004

Richard P Bennet, Registered Architect
Rick Bennett Architects
1104 Park Ave SW
Albuquerque, NM 87102

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Asbury United Methodist Church, [H-21 / D1]
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Sincerely,

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

c: Engineer
Hydrology file
CO Clerk

Contractor → spoke w/ Fred Downum
2/18/04 4:00pm
343-0410
Sub → Zeroscape
COA Inspector Orlando

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

H-21/01

PROJECT TITLE: ASBURY UNITED METHODIST CHURCH ZONE MAP/DRG. FILE #: H-21
 DRB #: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: TRACT A, BLOCK 51, SNOW HEIGHTS ADDITION
 CITY ADDRESS: 10,000 CANDELARIA NE

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

CONTACT: _____
 PHONE: _____
 ZIP CODE: _____

OWNER: ASBURY UNITED METHODIST CHURCH
 ADDRESS: 10,000 CANDELARIA NE
 CITY, STATE: ALB., NM

CONTACT: _____
 PHONE: _____
 ZIP CODE: _____

ARCHITECT: RICK BENNETT ARCHITECTS
 ADDRESS: 1104 PARK AVE. SW
 CITY, STATE: ALB., NM

CONTACT: PATRICK WHELAN
 PHONE: 242-1859
 ZIP CODE: 87102

SURVEYOR: _____
 ADDRESS: _____
 CITY, STATE: _____

CONTACT: _____
 PHONE: _____
 ZIP CODE: _____

CONTRACTOR: DOWNUM'S UBC
 ADDRESS: 321 LAS COLINAS NE
 CITY, STATE: ALB., NM

CONTACT: FRED DOWNUM
 PHONE: 343-0410
 ZIP CODE: 87113

CHECK TYPE OF SUBMITTAL:

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

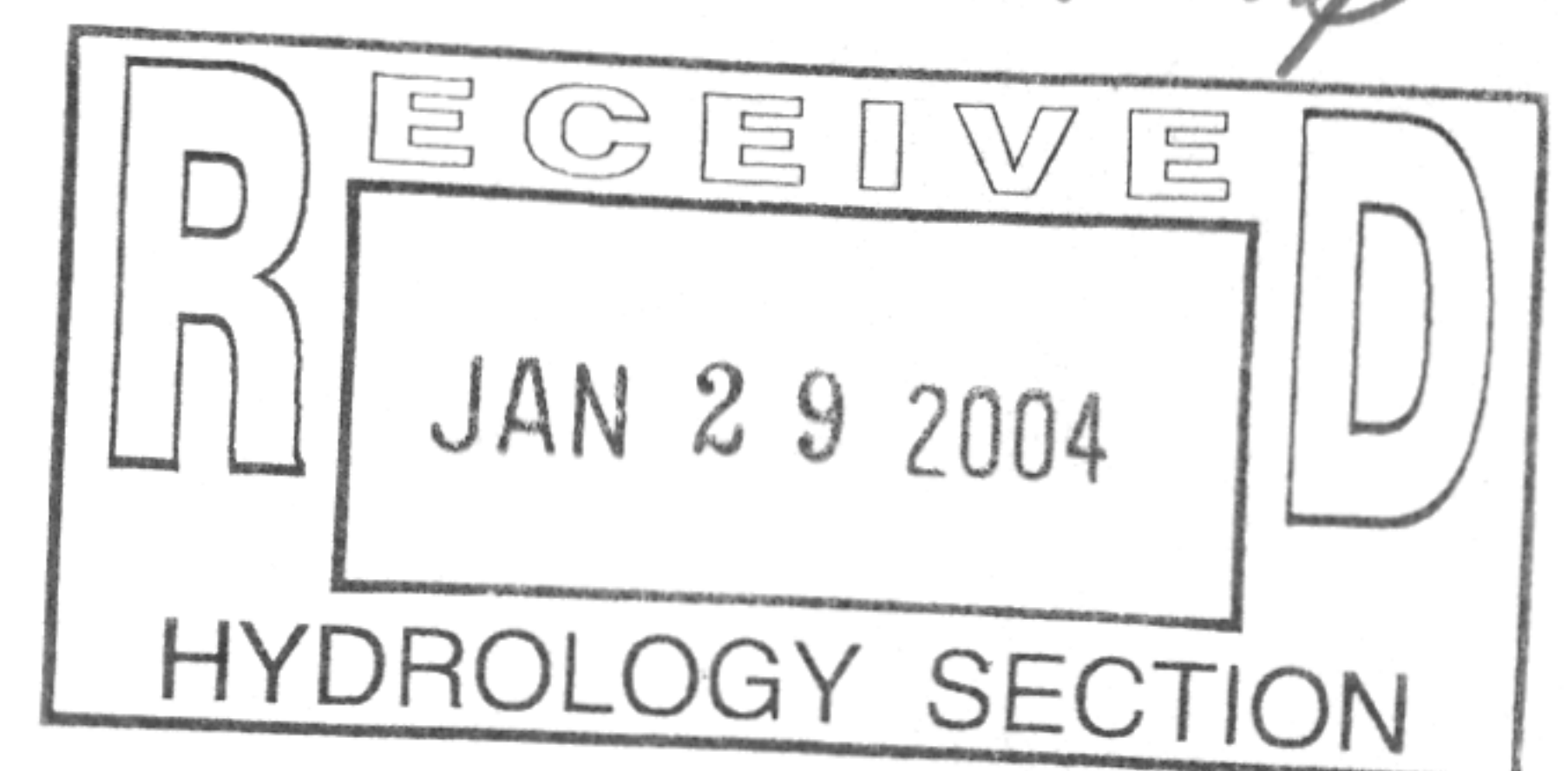
CHECK TYPE OF APPROVAL SOUGHT:

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

30 day temp

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☐ NO
- ☐ COPY PROVIDED



DATE SUBMITTED: 1-29-04 BY: PATRICK WHELAN

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
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5)
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

west end
(unidirectional)
ramp fronting
Christina test
need grind (both)
↳ tripping hazard



January 29, 2004

Traffic Engineer
City of Albuquerque
Planning Department
600 2nd Street NW
Albuquerque, NM 87102

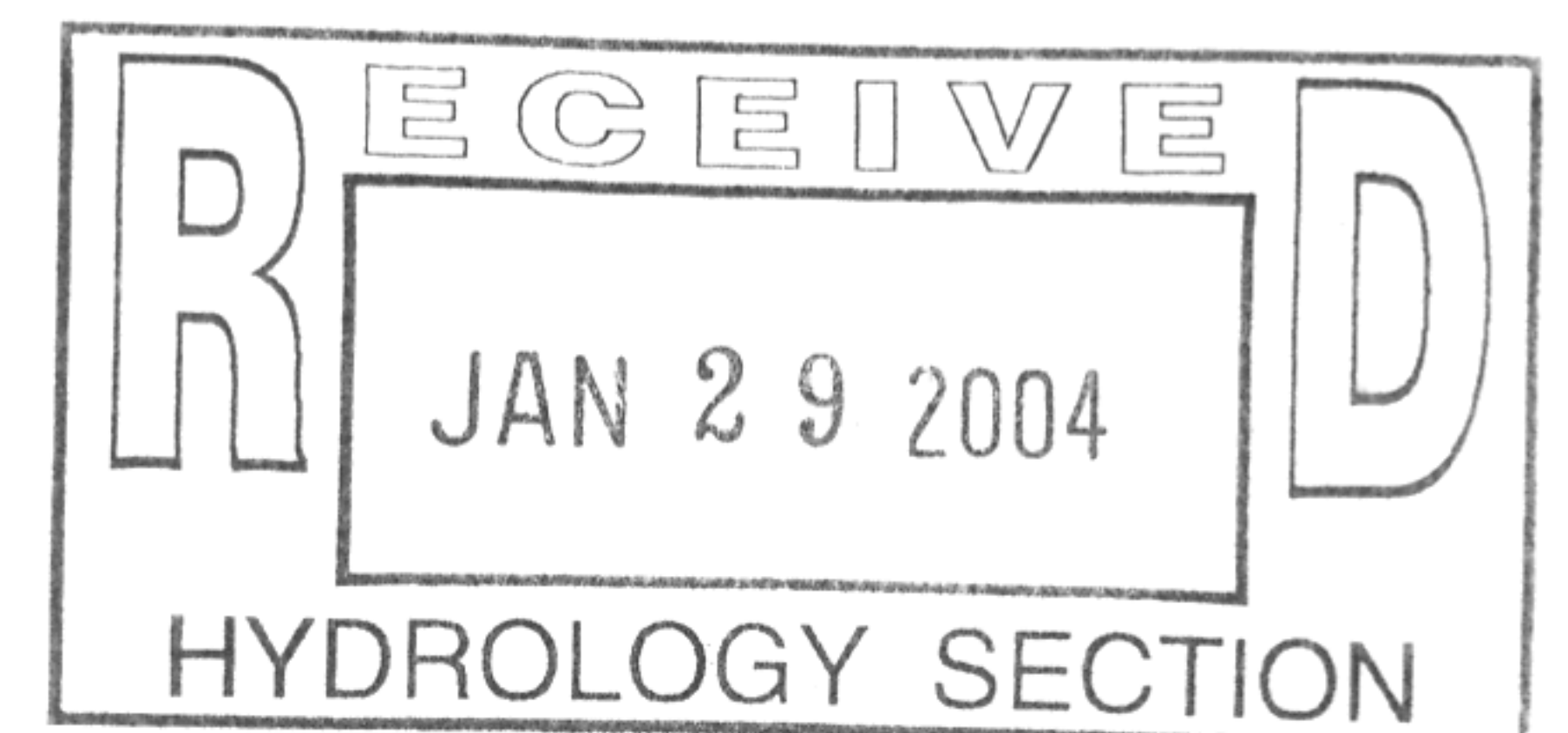
Dear Sir,

I hereby provide Certification that the Asbury United Methodist Church project at 10000 Candelaria Blvd. NE, has been built in substantial compliance with the approved Traffic Circulation Layout Plan, dated 10-09-02.

Sincerely,

A handwritten signature in cursive script, appearing to read "Rick Bennett", followed by a long horizontal flourish.

Rick Bennett, architect





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 2, 2004

Frank D. Lovelady P.E.
300 Alamosa Road NW
Albuquerque, NM 87107

Re: Asbury United Methodist Church, 10000 Candelaria Rd. NE, Certificate of Occupancy

Engineer's Stamp dated 3-26-03 (H21/D1)

Certification dated 1-29-04

Dear Mr. Lovelady,

Based upon the information provided in your submittal received 1-30-04, the above referenced certification is approved for release of permanent Certificate of Occupancy by Hydrology.

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

Sincerely,

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

C: Phyllis Villanueva
file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 7-30-02)

H-21/D1

PROJECT TITLE: ASBURY UNITED METHODIST ZONE MAP/DRG. FILE #: H 21 / D-1
 DRB #: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: TRACT "A" BLOCK 51, SNOW HEIGHTS ADDITION.
 CITY ADDRESS: _____

ENGINEERING FIRM: FRANK D. LOVELADY, PE
 ADDRESS: 300 ACAMOSA ROAD NW
 CITY, STATE: 300 ACAMOSA ROAD NW

CONTACT: FRANK LOVELADY
 PHONE: 345-2267
 ZIP CODE: 87107

OWNER: ASBURY UMC
 ADDRESS: _____
 CITY, STATE: ALBUQUERQUE NM

CONTACT: FRED DOWNUM
 PHONE: 12990643
 ZIP CODE: _____

ARCHITECT: Rick Bennett
 ADDRESS: 1106 PARK AVE SW
 CITY, STATE: ALBUQUERQUE NM

CONTACT: Rick Bennett
 PHONE: 242-1859
 ZIP CODE: 87102

SURVEYOR: Tony Harris
 ADDRESS: 2412 MONROE NE
 CITY, STATE: ALBUQUERQUE NM

CONTACT: Tony Harris
 PHONE: 8898056
 ZIP CODE: 87110

CONTRACTOR: FRED DOWNUM
 ADDRESS: 1106 PARK AVE SW
 CITY, STATE: ALBUQUERQUE NM

CONTACT: FRED DOWNUM
 PHONE: 242-1859
 ZIP CODE: 87102

CHECK TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☐ 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

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- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
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- ☐ 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

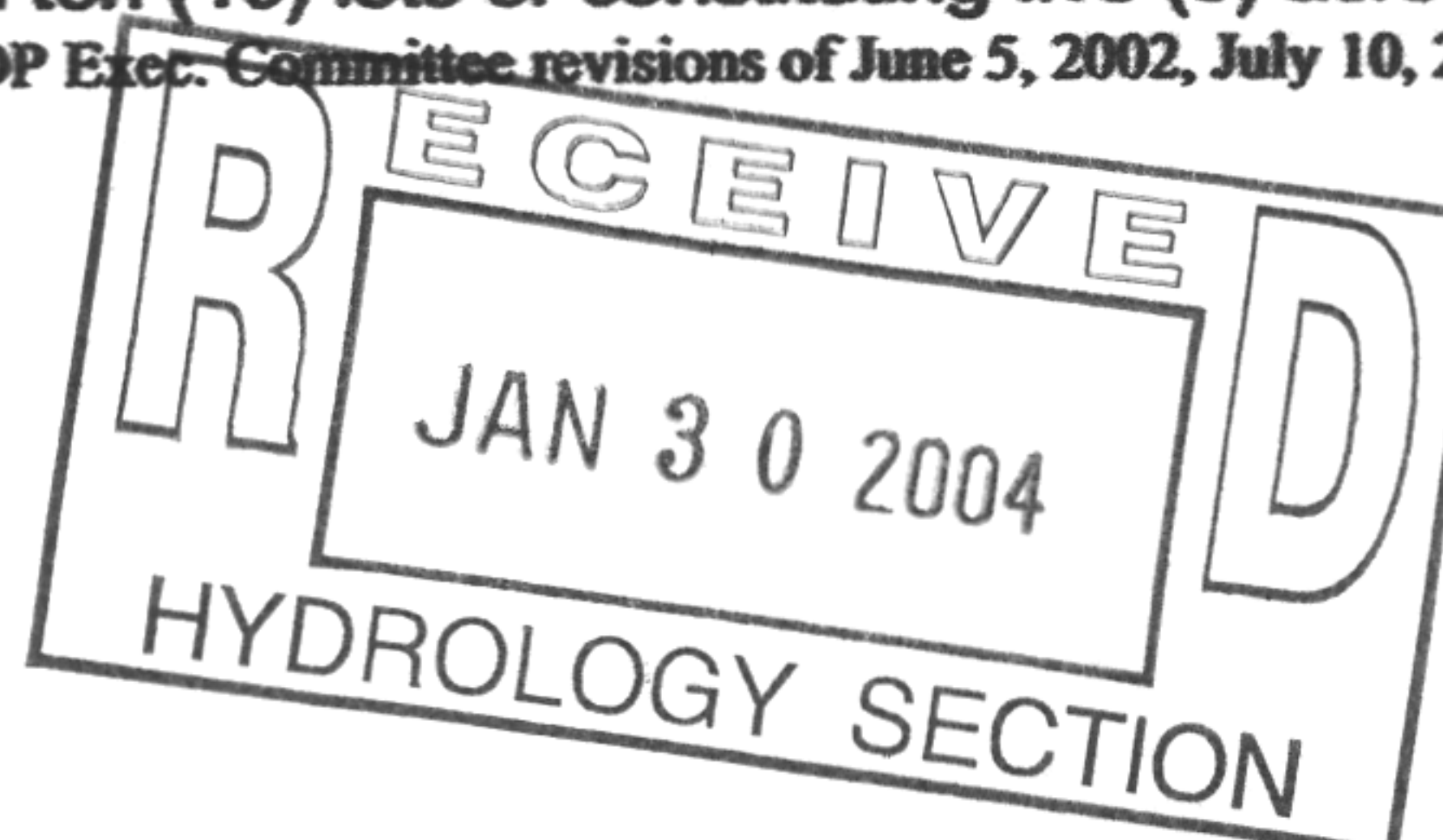
DATE SUBMITTED: January 30, 2004 BY: Frank D. Lovelady

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APPROVED BY THE TECHNICAL SUBCOMMITTEE ON 5/15/02 w/DP Exec. Committee revisions of June 5, 2002, July 10, 2002

Need stamp date
 3/26/03





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 14, 2003

Rick Bennett, RA
1804 Park Ave SW
Albuquerque, NM 87102

**Re: Asbury United Methodist Church Addition Traffic Circulation Layout
Architect's Stamp not dated (H21/D1)**

Dear Mr. Bennett,

Based upon the information provided in your submittal dated 3-26-03, the above referenced plan is not required since the site is zoned SU-1 and a Site Plan will be reviewed and approved by the DRB. In future submittals, please date your signature in order to better reference plans for approval. Failure to do so may result in delays in your project. Please include a copy of the DRB signed plan in the construction sets prior to signoff by Transportation.

Prior to Certificate of Occupancy release, Architect's certification of the DRB Site Plan is required. If you have any questions, you can contact me at 924-3986.

Sincerely,

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

C: file



DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

H-21/01

PROJECT TITLE: ASBURY UNITED METHODIST CHURCH GRADING & DRAINAGE PLAN ZONE MAP/DRG. FILE #: H-21/01
 DRB #: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: 10000 Candelaria NE TRACT "A", BLOCK 51 SNOW HEIGHTS ADDITION.
 CITY ADDRESS: _____

ENGINEERING FIRM: FRANK D. LOVELADY PE
 ADDRESS: 300 HILAMOSA NW
 CITY, STATE: ALB. NM 87107

CONTACT: FRANK LOVELADY
 PHONE: 345-2267
 ZIP CODE: 87107

OWNER: ASBURY UNITED METHODIST CHURCH
 ADDRESS: 1804 PARK AVE SW
 CITY, STATE: ALBUQUERQUE NM 87102

CONTACT: FRED DOWNUM
 PHONE: 242-1859
 ZIP CODE: 87102

ARCHITECT: RICK BENNETT
 ADDRESS: 1804 PARK AVE SW
 CITY, STATE: ALB NM

CONTACT: RICK BENNETT
 PHONE: 242-1859
 ZIP CODE: 87102

SURVEYOR: HARRIS SURVEYING
 ADDRESS: 2512 MONROE NE
 CITY, STATE: ALB NM

CONTACT: TONY HARRIS
 PHONE: 889-8056
 ZIP CODE: 87110

CONTRACTOR: BROWN DEVELOPMENT
 ADDRESS: 1804 PARK
 CITY, STATE: ALB NM

CONTACT: FRED DOWNUM
 PHONE: 242-1859
 ZIP CODE: 87102

CHECK TYPE OF SUBMITTAL:

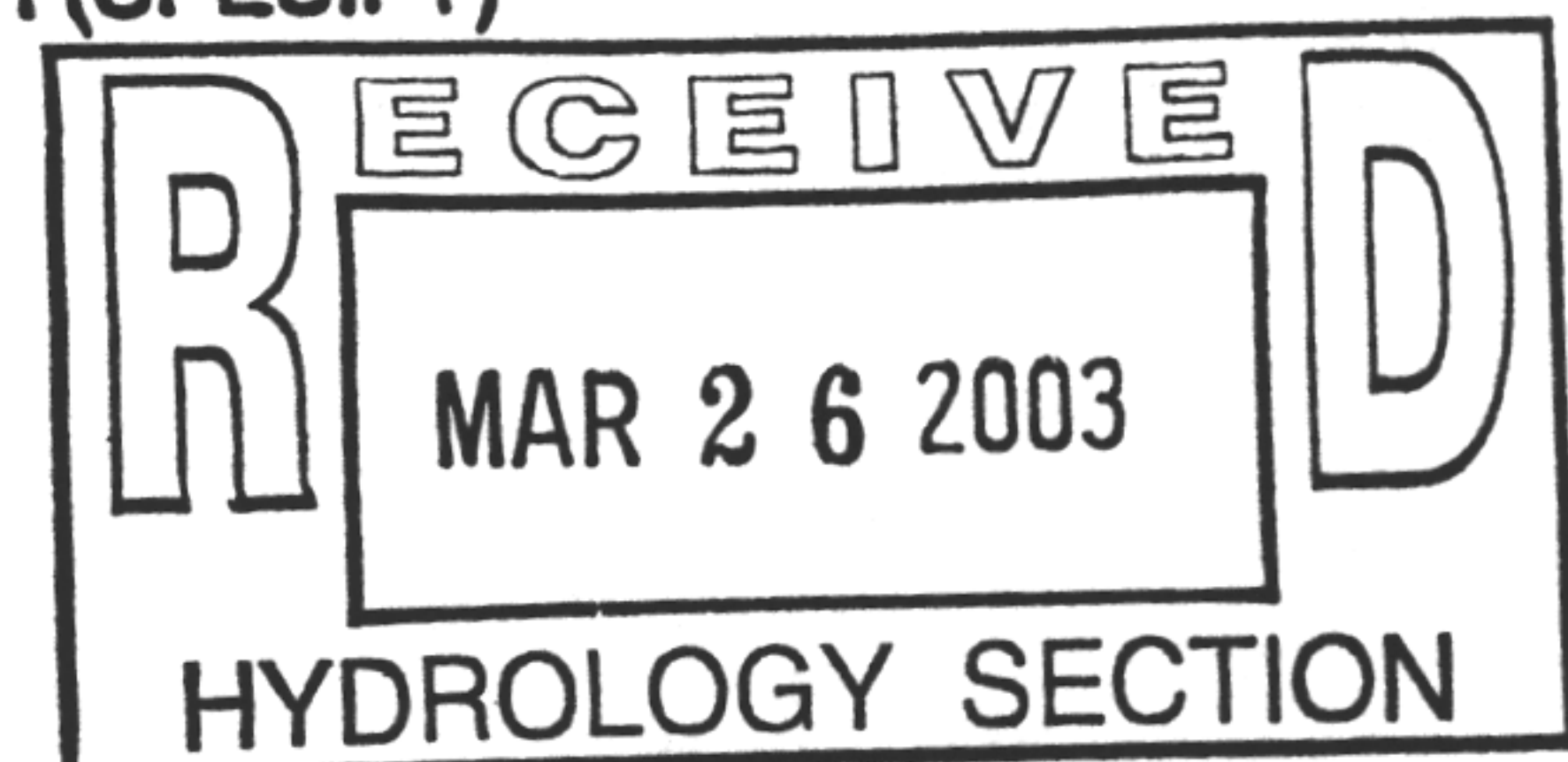
- ☒ DRAINAGE REPORT
- ☒ DRAINAGE PLAN 1st SUBMITTAL, *REQUIRES TCL or equal*
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- ☒ TRAFFIC CIRCULATION LAYOUT (TCL)
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- ☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

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- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED



DATE SUBMITTED: MARCH 26, 2003 BY: Frank D. Lovelady

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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ALSO SEE
G+D
SUBMITTAL.



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 14, 2003

Frank Lovelady, PE
300 Alamosa NW
Albuquerque, NM 87107

**Re: Asbury United Methodist Church Addition Grading and Drainage Plan
Engineer's Stamp dated 3-26-03 (H21/D1)**

Dear Mr. Lovelady,

Based upon the information provided in your submittal dated 3-26-03, the above referenced plan is approved for Building Permit. Please include a copy of this plan in the construction sets prior to signoff by Hydrology.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. Refer to the attachment that is provided with this letter for details. If you have any questions please feel free to call the Public Works Hydrology section at 768-3654 (Charles Caruso) or 768-3645 (Brian Wolfe).

Prior to Certificate of Occupancy release, Engineer's certification of this plan is required. If you have any questions, you can contact me at 924-3986.

Sincerely,

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

C: Chuck Caruso, CoA
file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

H-21/D1

PROJECT TITLE: ASBURY UNITED METHODIST CHURCH GRADING & DRAINAGE PLAN ZONE MAP/DRG. FILE #: H-21/D1
DRB #: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: TRACT "A", BLOCK 51 SNOW HEIGHTS ADDITION.
CITY ADDRESS: _____

ENGINEERING FIRM: FRANK D. LOVELADY PE
ADDRESS: 300 HECAMOSA NW
CITY, STATE: ALB. NM 87107

CONTACT: FRANK LOVELADY
PHONE: 345-2267
ZIP CODE: 87107

OWNER: ASBURY UNITED METHODIST CHURCH
ADDRESS: 1804 PARK AVE SW
CITY, STATE: ALBUQUERQUE NM 87102

CONTACT: FRED DOWNUM
PHONE: 242-1859
ZIP CODE: 87102

ARCHITECT: RICK BENNETT
ADDRESS: 1804 PARK AVE SW
CITY, STATE: ALB NM

CONTACT: RICK BENNETT
PHONE: 242-1859
ZIP CODE: 87102

SURVEYOR: HARRIS SURVEYING
ADDRESS: 2512 MONROE NE
CITY, STATE: ALB NM

CONTACT: TONY HARRIS
PHONE: 889-8056
ZIP CODE: 87110

CONTRACTOR: BROWN DEVELOPMENT
ADDRESS: 1804 PARK
CITY, STATE: ALB NM

CONTACT: FRED DOWNUM
PHONE: 242-1859
ZIP CODE: 87102

CHECK TYPE OF SUBMITTAL:

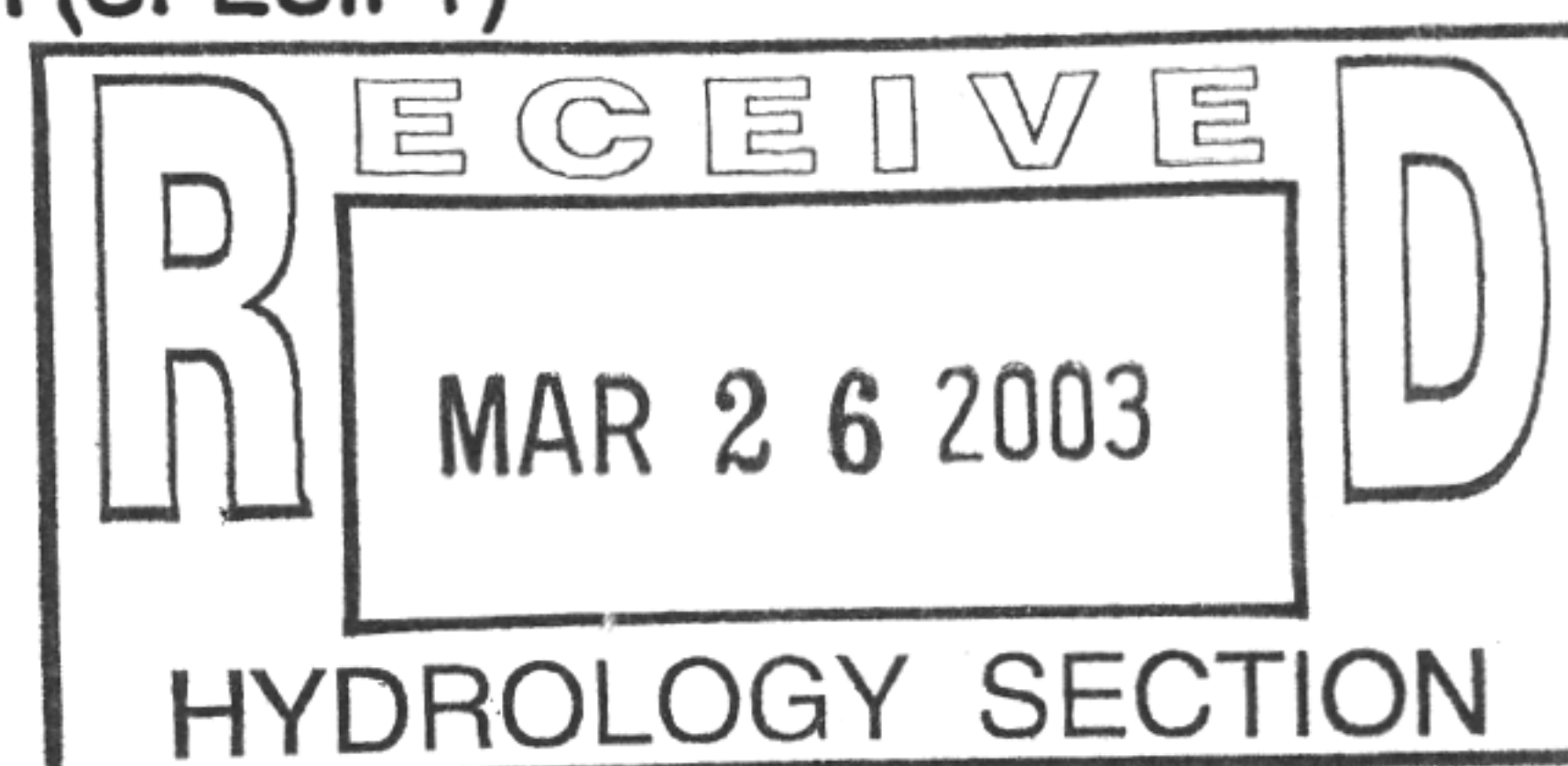
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- ☒ DRAINAGE PLAN 1st SUBMITTAL, **REQUIRES TCL or equal**
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- ☐ CLOMR/LOMR
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- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY (PERM.)
- ☐ 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: MARCH 26, 2003 BY: Frank D. Lovelady

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.

DRAINAGE CALCULATIONS

FOR

Asbury United Methodist Church

10000 CANDELARIA BLVD. NE

ALBUQUERQUE, NEW MEXICO

Prepared By:

FRANK D. LOVELADY, PE

**300 Alamosa Road NW
Albuquerque, New Mexico 87107**

March 26, 2003

DRAINAGE CALCULATIONS
FOR
Asbury United Methodist Church
10000 CANDELARIA BLVD. NE
ALBUQUERQUE, NEW MEXICO



Prepared By:

FRANK D. LOVELADY, PE

300 Alamosa Road NW
Albuquerque, New Mexico 87107

March 26, 2003

Frank D. Lovelady, PE

300 ALAMOSA ROAD NW
ALBUQUERQUE, NM 87107

Telephone (505)345-2267 Fax(505)345-2115

TO: CITY OF ALBUQUERQUE HYDROLOGY

FROM: FRANK LOVELADY, PE

SUBJECT: Asbury United Methodist Church, Grading and Drainage Plan (H21/D-1),
City of Albuquerque letter dated March 26, 2003.

DATE: March 26, 2003

Attached is the grading and drainage plan for the referenced project. The previous submittal was a conceptual grading and drainage plan. The main changes are:

The finish floor elevation of the upper level of the addition was changed to meet the finish floor of the existing main church building. The lower level is 10' lower and will open on a court yard which will be used as a day-school playground.

The grades in the west parking lot were raised approximately 1 foot so that there would be less excess material and so that excavation for the new building could be placed in the parking lot.

If you have any questions, please do not hesitate to contact me.

Sincerely,



Frank D. Lovelady, P.E.

EXISTING CONDITIONS:

The site is located on the South side of Candelaria Drive NE, approximately 750 feet east of Eubank Boulevard, NE. The site is bounded on the West by Christine Street, on the North by Candelaria Road NW, on the East by Britt Street NE and on the South by Lots 15 through 28, Block 51, Snow Heights Addition, which are residential lots. The three adjacent streets are paved with asphalt and standard curb and gutter. The existing buildings and pavement drain either to the adjacent streets or to a small pond. There is no off-site flow associated with this site. An existing drainage plan exists under the file H-21/D-1, 1978.

PROPOSED CONDITIONS:

It is proposed to construct a 6,272 sf office and classroom addition on the site as well as added parking as shown on the plan. As much as possible, runoff will be directed into Candelaria Road. The westerly end of the site and the southerly edge of the site will be discharged into Christine Street via the westerly drivepad.

DRAINAGE CRITERIA:

The calculations shown on this plan were prepared in accordance with Section 22.2, Hydrology, of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, in cooperation with Bernalillo County, New Mexico and the Albuquerque Metropolitan Arroyo Flood Control Authority, January, 1993.

PRECIPITATION ZONE:

The site is East of the Eubank Boulevard and is, therefore, in Precipitation Zone 4.

EXISTING PEAK DISCHARGE AND VOLUME CALCULATIONS:

EXISTING LAND TREATMENT "A":

The entire site has, at some time, been graded. Therefore, by definition, there is no part of the site which could be considered Land Treatment "A".

EXISTING LAND TREATMENT "B":

The site has some existing landscaping. The topographic survey did not pick up landscaping in sufficient detail to calculate areas. An estimate is 25% of the required landscaping for the developed condition: $13,877 \times 0.25 = 3,469$ sf Use 3,470 sf

EXISTING LAND TREATMENT "C":

Existing Land Treatment "C" is total area less areas of Treatments "B" and "D".
Treatment "C" = $115,968$ sf - $(3,470$ sf + $50,665$ sf) = $61,833$ sf

EXISTING LAND TREATMENT "D":

| | |
|--------------------------------|-----------|
| EXISTING PAVEMENT | 29,960 SF |
| EXISTING CHURCH BLDG. | 16,730 SF |
| EXISTING EDUCATION BLDG. | 2,523 SF |
| SMALL SHED | 22 SF |
| LARGE SHED | 145 SF |
| WEST CONCRETE WALK | 823 SF |
| STOOP | 14 SF |
| FRONT CONC. WALK | 90 SF |
| EAST CONC. WALK | 358 SF |
| TOTAL EXISTING LAND TREAT. "D" | 50,665 SF |

SUMMARY OF EXISTING LAND TREATMENT AREAS, EXCESS PRECIPITATION AND UNIT PEAK DISCHARGE:

The peak discharge per acre and excess precipitation are shown for the four land treatments in Zone 4 in the table below, and the values shown are from the City of Albuquerque D. P. M. Also shown are the existing and proposed land treatment areas.

| LAND TREATMENT | q(cfs/ac) | | E (in) | | Existing Site Areas | | |
|-------------------|-----------|--------|---------|--------|---------------------|---------|--------|
| | 100-yr. | 10-yr. | 100-yr. | 10-yr. | % | Sq. Ft. | Acres |
| A | 2.20 | 0.87 | 0.80 | 0.28 | 100.0 | 0 | 0.0000 |
| B | 2.92 | 1.45 | 1.08 | 0.46 | 3.0 | 3,470 | 0.0796 |
| C | 3.73 | 2.26 | 1.46 | 0.73 | 53.3 | 61,833 | 1.4195 |
| D | 5.25 | 3.57 | 2.64 | 1.69 | 43.7 | 50,665 | 1.1631 |
| Totals | | | | | 100.0 | 115,968 | 2.6622 |

EXISTING PEAK DISCHARGE:WEIGHTED UNIT PEAK DISCHARGE:

$$q_{w-100} = 0.03 \times 2.92 + 0.537 \times 3.73 + 0.437 \times 5.25 = 4.38 \text{ cfs/acre}$$

$$q_{w-10} = 0.03 \times 1.45 + 0.537 \times 2.26 + 0.437 \times 3.57 = 2.82 \text{ cfs/acre}$$

$$Q_{100} = 2.6622 \times 4.38 = 11.66 \text{ cfs}$$

$$Q_{10} = 2.6622 \times 2.82 = 7.51 \text{ cfs}$$

EXISTING VOLUME, 100-YEAR AND 10-YEAR, 6-HR.WEIGHTED EXCESS PRECIPITATION:

$$E_{w-100} = 0.03 \times 1.08 + 0.537 \times 1.46 + 0.437 \times 2.64 = 1.97 \text{ cfs/acre}$$

$$E_{w-10} = 0.03 \times 0.46 + 0.537 \times 0.73 + 0.437 \times 1.69 = 1.14 \text{ cfs/acre}$$

$$V_{100} = (115,968 \times 1.98) / 12 = 19,038 \text{ cf}$$

$$V_{10} = (115,968 \times 1.14) / 12 = 11,017 \text{ cf}$$

DEVELOPED PEAK DISCHARGE & VOLUME CALCULATIONS:

EXISTING LAND TREATMENT 'A':

The entire site has, at some time, been graded. Therefore, by definition, there is no part of the site which could be considered Land Treatment 'A'.

DEVELOPED LAND TREATMENT 'B':

Developed Land Treatment 'B' is 15,284 sf (See calculations for subbasins)

DEVELOPED LAND TREATMENT 'C':

Developed Land Treatment 'C' is behind, or south of, the existing and new buildings.
Treatment 'C' = 9,409 sf

EXISTING LAND TREATMENT 'D':

Developed Land Treatment 'D' is 88,102 sf (see calculations for subbasins).

SUMMARY OF DEVELOPED LAND TREATMENT AREAS, EXCESS PRECIPITATION AND UNIT PEAK DISCHARGE:

The peak discharge per acre and excess precipitation are shown for the four land treatments in Zone 4 in the table below, and the values shown are from the City of Albuquerque D.P.M. Also shown are the existing and proposed land treatment areas.

| LAND TREATMENT | q(cfs/ac) | | E (in) | | Developed Site Areas | | |
|-------------------|-----------|--------|---------|--------|----------------------|---------|--------|
| | 100-yr. | 10-yr. | 100-yr. | 10-yr. | % | Sq. Ft. | Acres |
| A | 2.20 | 0.87 | 0.80 | 0.28 | 0.0 | 0 | 0.0000 |
| B | 2.92 | 1.45 | 1.08 | 0.46 | 15.9 | 18,457 | 0.4237 |
| C | 3.73 | 2.26 | 1.46 | 0.73 | 8.1 | 9,409 | 0.2160 |
| D | 5.25 | 3.57 | 2.64 | 1.69 | 76.0 | 88,102 | 2.0225 |
| Totals | | | | | 100.0 | 115,968 | 2.6622 |

DEVELOPED PEAK DISCHARGE:

WEIGHTED UNIT PEAK DISCHARGE:

$$q_{w-100} = 0.159 \times 2.92 + 0.081 \times 3.73 + 0.76 \times 5.25 = 4.76 \text{ cfs/acre}$$

$$q_{w-10} = 0.159 \times 1.45 + 0.081 \times 2.26 + 0.76 \times 3.57 = 3.13 \text{ cfs/acre}$$

$$Q_{100} = 2.6622 \times 4.76 = 12.67 \text{ cfs}$$

$$Q_{10} = 2.6622 \times 3.13 = 8.33 \text{ cfs}$$

EXISTING VOLUME, 100-YEAR AND 10-YEAR, 6-HR.

WEIGHTED EXCESS PRECIPITATION:

$$E_{w-100} = 0.159 \times 1.08 + 0.081 \times 1.46 + 0.76 \times 2.64 = 2.297 \text{ cfs/acre}$$

$$E_{w-10} = 0.159 \times 0.46 + 0.081 \times 0.73 + 0.76 \times 1.69 = 1.42 \text{ cfs/acre}$$

$$V_{100} = (115,968 \times 2.297) / 12 = 22,200 \text{ cf}$$

$$V_{10} = (115,968 \times 1.42) / 12 = 13,723 \text{ cf}$$

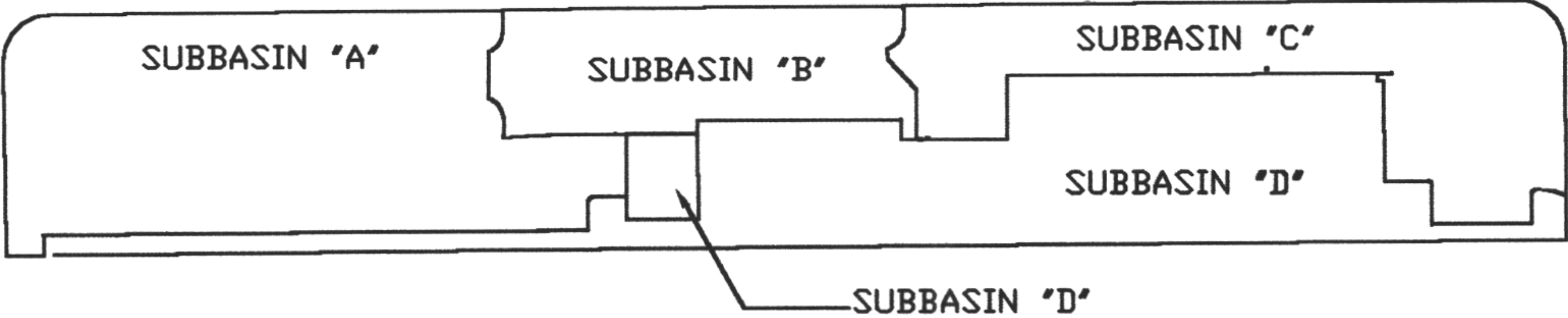
SUMMARY OF VOLUMES AND PEAK DISCHARGE RATES:

| | V100 | V10 | Q100 | Q10 |
|-----------|--------|--------|-------|------|
| DEVELOPED | 21,744 | 13,723 | 12.67 | 8.33 |
| EXISTING | 19,038 | 11,017 | 11.66 | 7.51 |
| INCREASE | 2,706 | 2,706 | 1.01 | 0.82 |

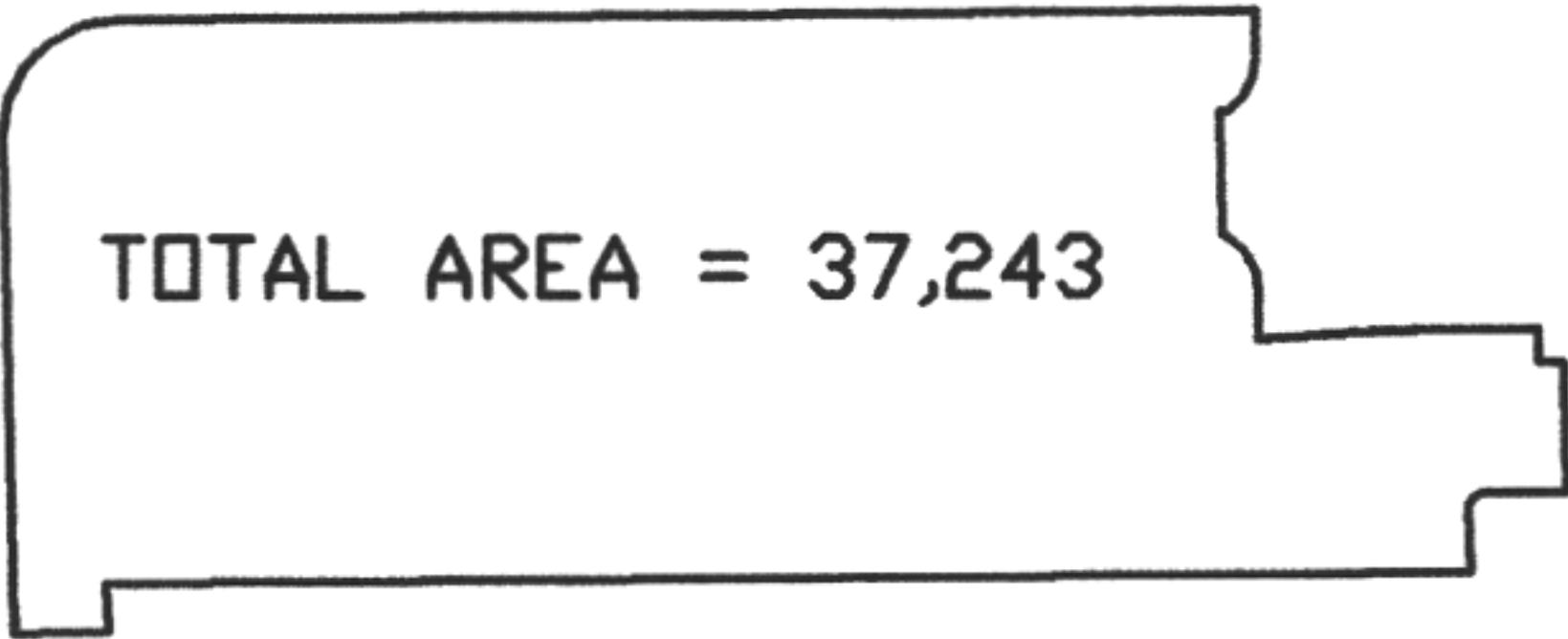
SUMMARY OF SUBBASIN VOLUMES AND PEAK DISCHARGE RATES:

| SUBBASIN | q - w | Q100 | E-w | V100 |
|----------|-------|-------|------|--------|
| A | 4.92 | 4.21 | 2.42 | 7,510 |
| B | 4.64 | 1.63 | 2.23 | 2,840 |
| C | 4.89 | 2.70 | 2.40 | 4,809 |
| D | 4.62 | 3.98 | 2.18 | 6,811 |
| E | 3.46 | 0.15 | 1.45 | 230 |
| TOTALS | | 12.67 | | 22,200 |

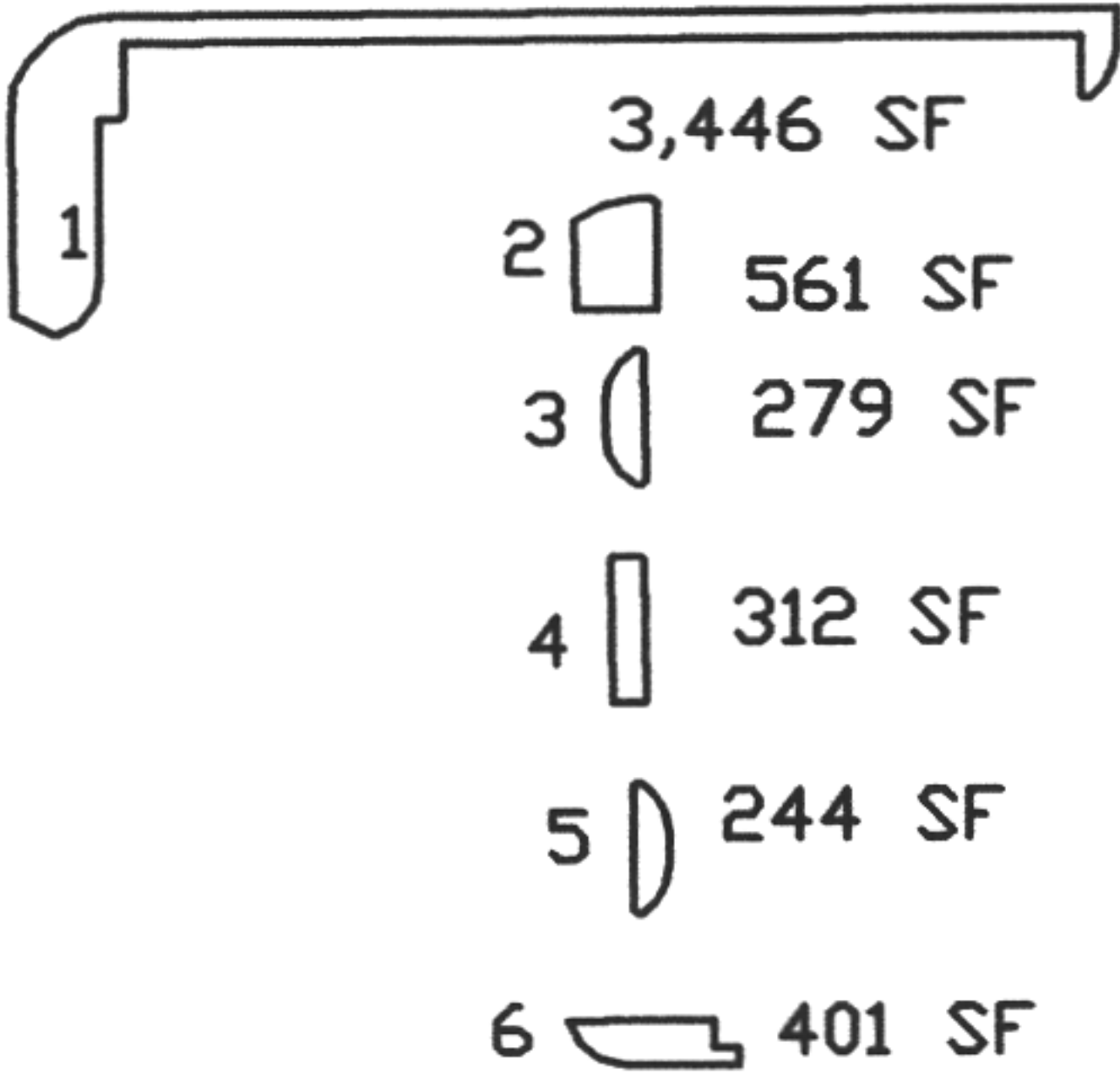
SUBBASIN DIAGRAM



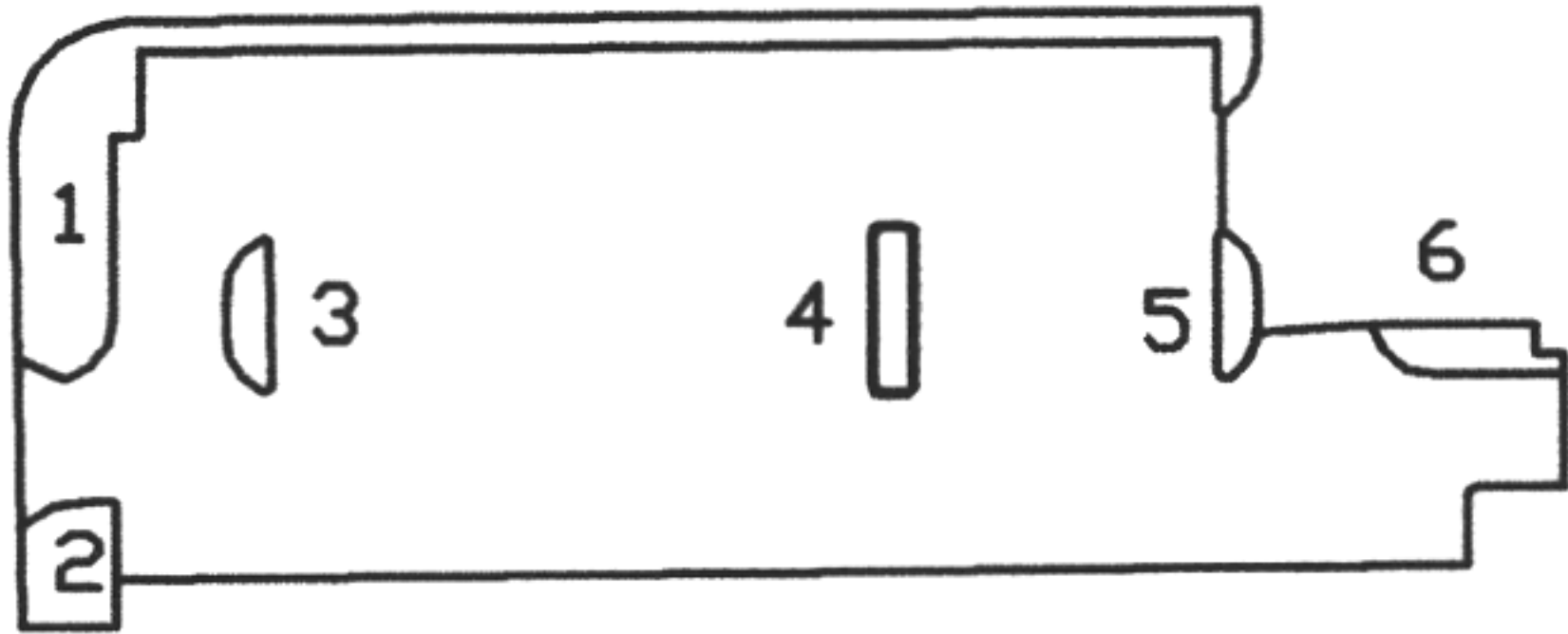
SUBBASIN "A"



LANDSCAPING



TOTAL LANDSCAPING = 5,243 SF

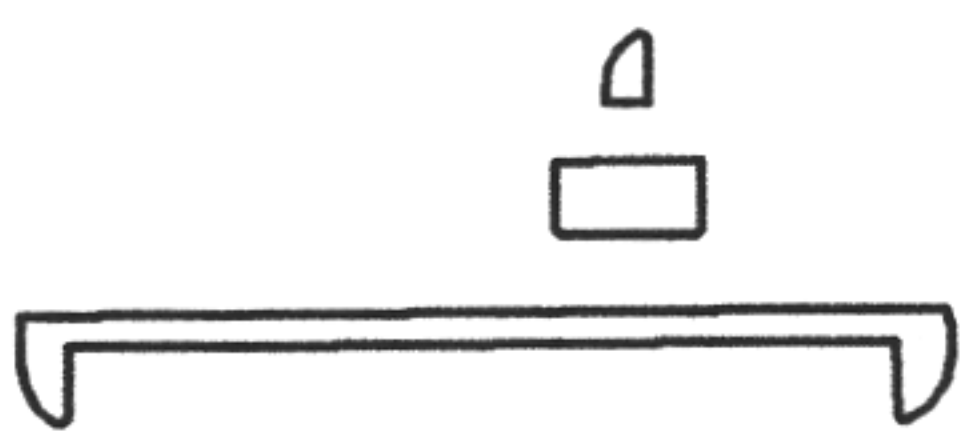


| SUBBASIN | q - w | Q100 | E-w | V100 |
|----------|-------|------|------|-------|
| A | 4.92 | 4.21 | 2.42 | 7,510 |

Runoff from Subbasin "A" will discharge through the westerly drivepad into Christine Street where it will run north into the Candelaria Blvd. storm drain system.

SUBBASIN "B"

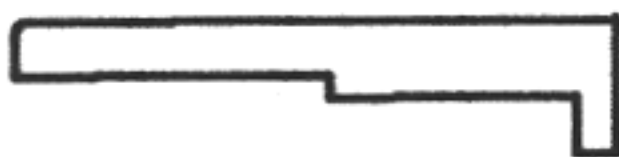
TOTAL AREA
15,284 SF



112 SF

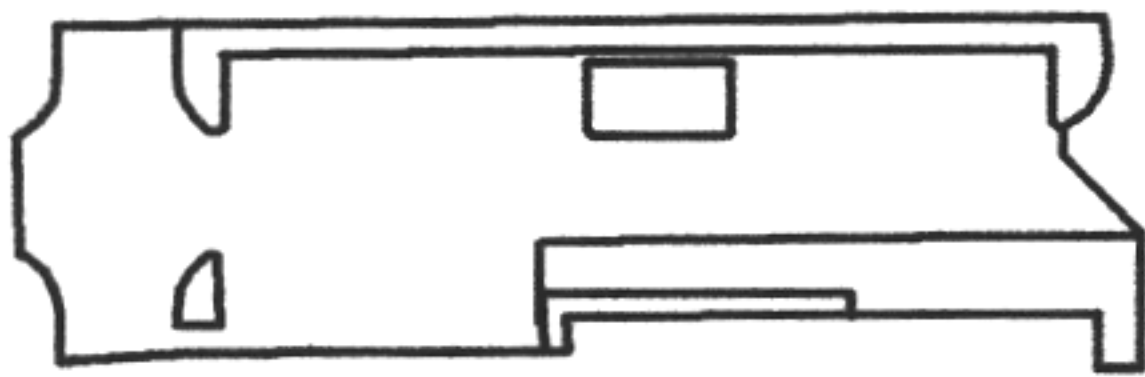
471 SF

1,541 SF



1,870 SF

TOTAL LANDSCAPING
3,994 SF



TOTAL TR. D
11,290 SF

SUBBASIN

q - w

Q100

E-w

V100

B

4.64

1.63

2.23

2,840

Runoff from Subbasin "B" will drain into Candelaria Blvd. via
the westerly drivepad on Candelaria. (See plan for drainage breaks)

SUBBASIN "C"

SUBBASIN

q - w

Q100

E-w

V100

C

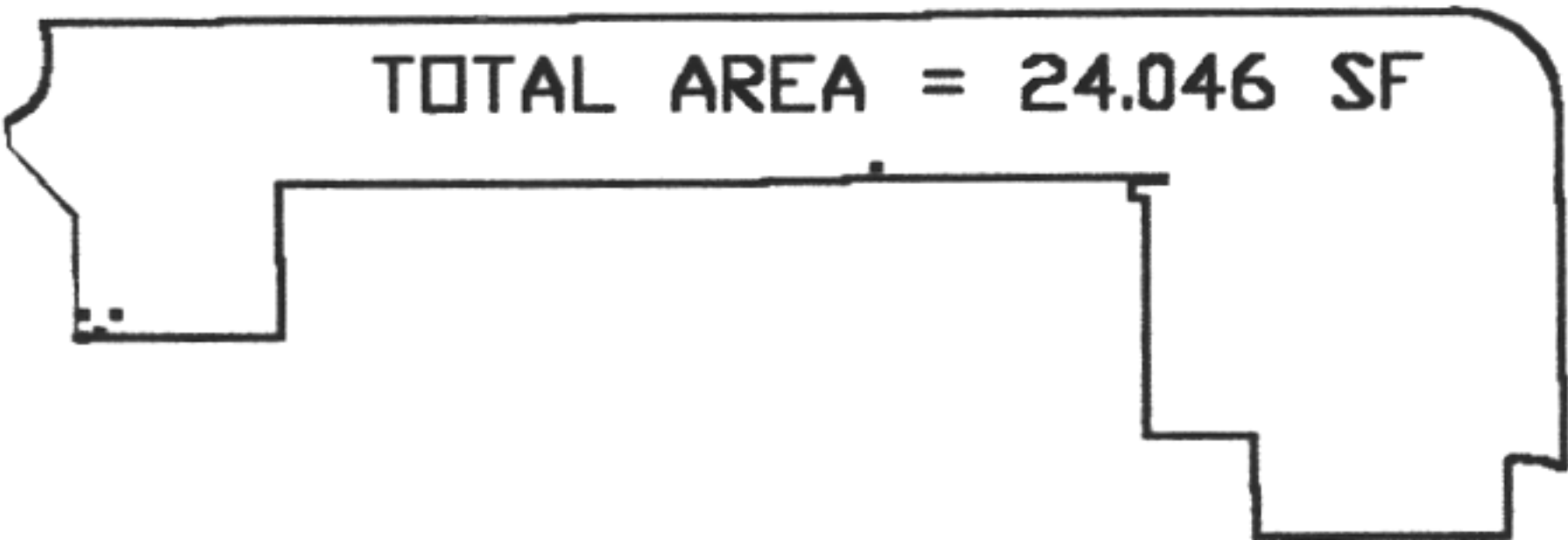
4.89

2.70

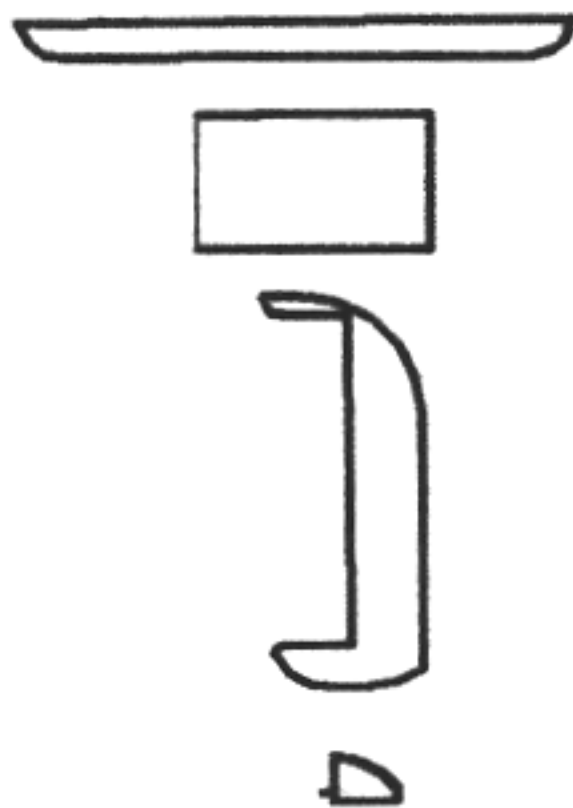
2.40

4,809

Runoff from Subbasin "C" will drain into Candelaria Blvd. via
the easterly drivepad on Candelaria. (See plan for drainage break)



TOTAL AREA = 24,046 SF

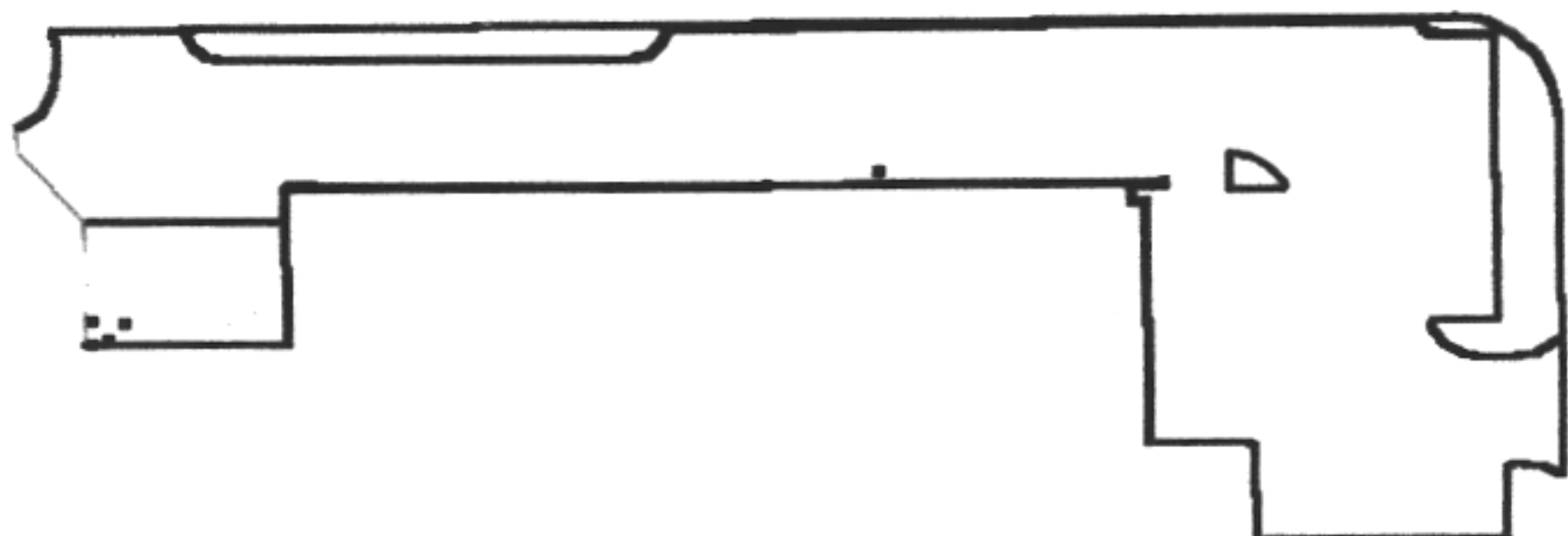


AREA = 885 SF

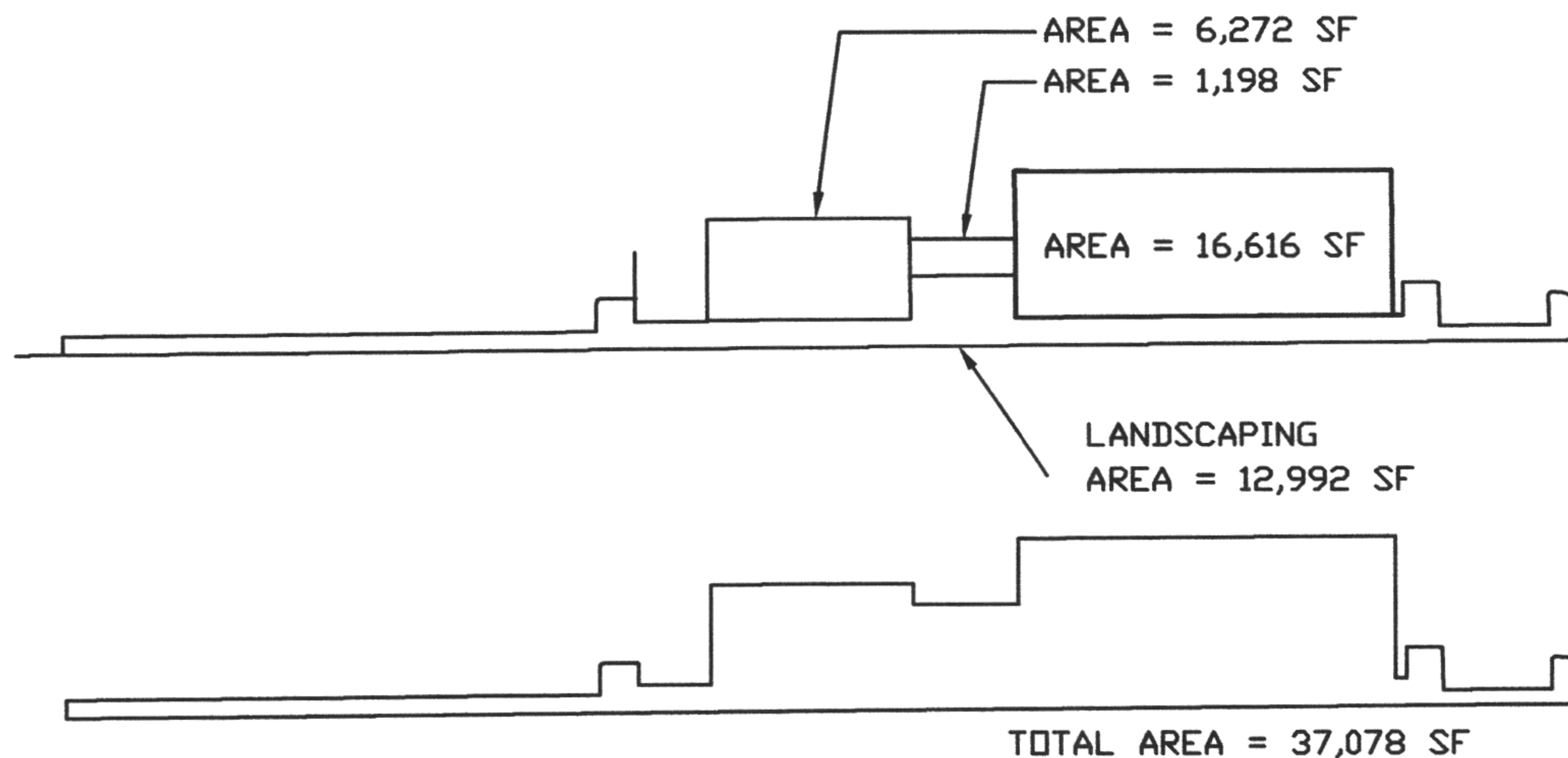
AREA = 1,438 SF

AREA = 1,312 SF

AREA = 95 SF



SUBBASIN "D"

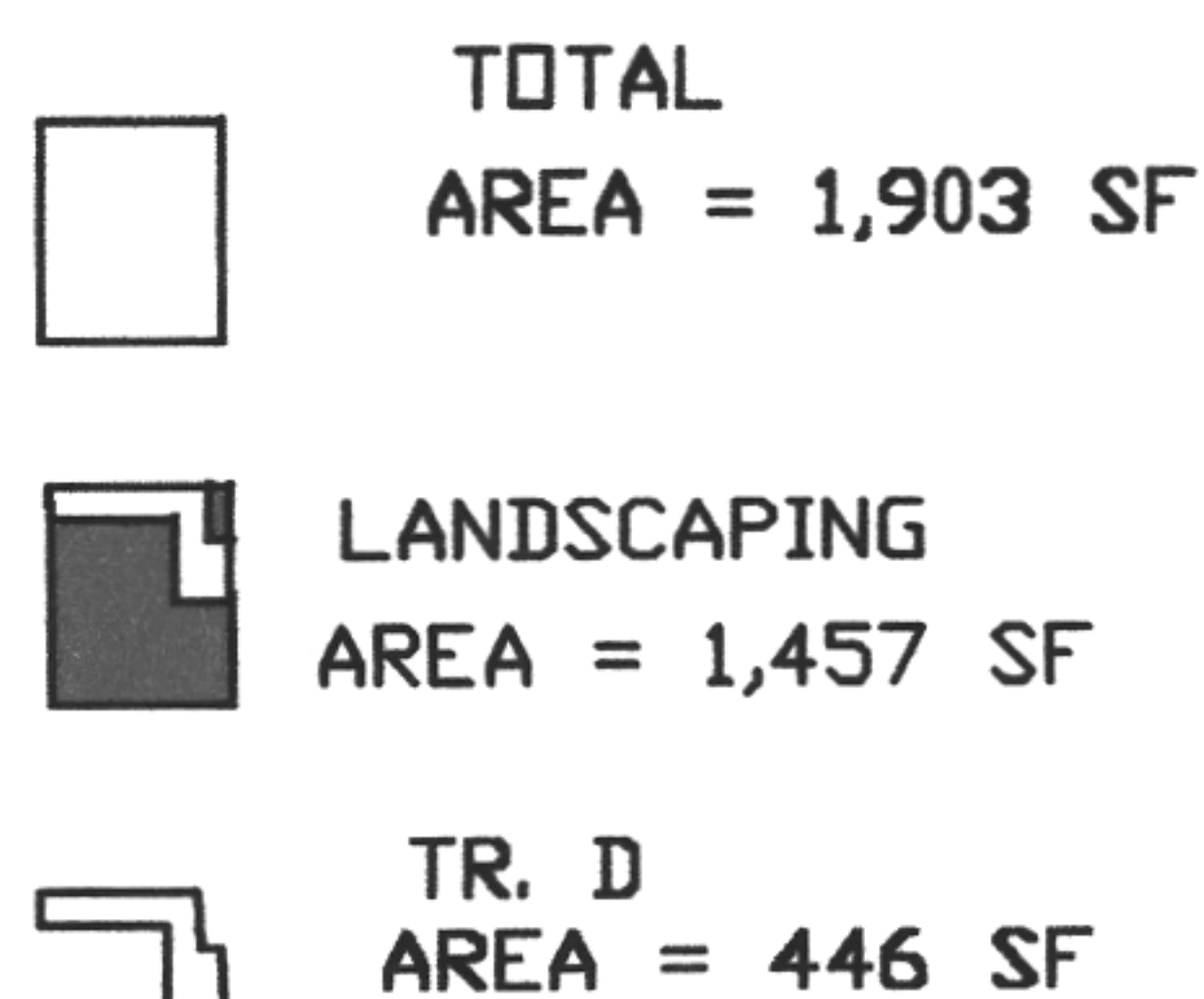


| SUBBASIN | q - w | Q100 | E-w | V100 |
|----------|-------|------|------|-------|
| D | 4.62 | 3.98 | 2.18 | 6,811 |

Subbasin "D" drains along the south property line of the sit
and discharges into discharges through a break in the parking lot curb
at the southwest corner of the parking lot.

Use Weir Equation, $Q = C L H^{3/2}$ $C = 3.0$ $L = 5.0'$ $H = 6'$
 $Q = 3.0 \times 5.0 \times 0.5^{1.5} = 5.30 \text{ cfs} > 4.62 \text{ cfs}$ OK

SUBBASE "E"



| SUBBASIN | q - w | Q100 | E-w | V100 |
|----------|-------|------|------|------|
| E | 3.46 | 0.15 | 1.45 | 230 |

Subbasin "E" will remain where it falls. Non-impervious areas will be
covered with playground



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 11, 2002

Frank Lovelady, PE
300 Alamosa Rd. NW
Albuquerque, NM 87108

**Re: Asbury United Methodist Church
Conceptual Grading and Drainage Plan (H21-D1)
Engineer's Stamp Dated June 26, 2002**

Dear Mr. Lovelady:

The above referenced conceptual grading and drainage plan received July 2, 2002 is approved for Site Development Plan for Building Permit. Prior to Building Permit, the following comments need to be addressed:

- Although not a hydrology issue, the site needs to be re-platted into one lot.
- What was the purpose of the pond, and has the constraint been lifted?
- The plans were stamped and dated, but were not signed. Please sign all future submitted plans to avoid delays.

If you have any questions please call me at 924-3986

Sincerely,

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

C: File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

H-21/D1

PROJECT TITLE: ASBURY UNITED METHODIST CHURCH
CONCEPTUAL GRADING & DRAIN. PLAN ZONE MAP/DRG. FILE #: H-21/P
DRB #: _____ EPC#: 1002 061 PROJ WORK ORDER#: _____

LEGAL DESCRIPTION: LOTS 1 THROUGH 14, BLOCK 51 SNOW HEIGHTS
CITY ADDRESS: 10000 CANDELARIA

ENGINEERING FIRM: FRANK D. LOVELADY
ADDRESS: 300 ALAMOSA
CITY, STATE: ALBUQ. NM

CONTACT: FRANK LOVELADY
PHONE: 345-2267
ZIP CODE: 87107

OWNER: ASBURY UNITED METHODIST CHURCH
ADDRESS: 10000 CANDELARIA RD NE
CITY, STATE: ALBUQUERQUE NM

CONTACT: FRED DOWNUM
PHONE: 343-0410
ZIP CODE: 87112

ARCHITECT: RICK BENNETT
ADDRESS: 1104 PARK AVE SW
CITY, STATE: ALBUQUERQUE NM 8

CONTACT: RICK BENNETT
PHONE: 242-1859 EXT 10
ZIP CODE: 87102

SURVEYOR: TONY HARRIS
ADDRESS: 2412 MONROE NE
CITY, STATE: ALBUQUERQUE NM 87110

CONTACT: TONY HARRIS
PHONE: 889-8056
ZIP CODE: 87110

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

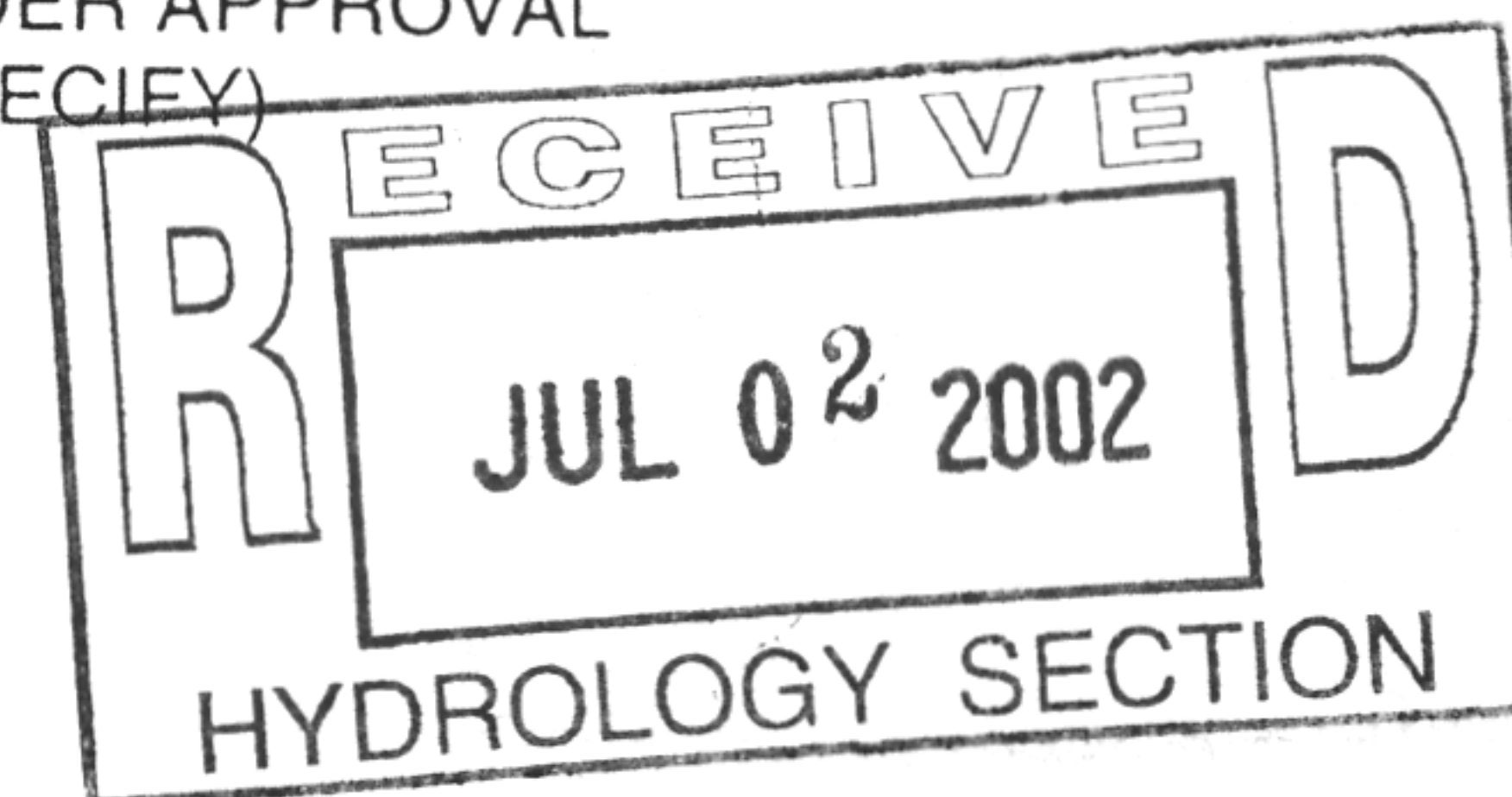
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☒ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION (TCL)
- ☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

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

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
- ☐ NO
- ☐ COPY PROVIDED



DATE SUBMITTED: July 2, 2002 BY: Frank D. Lovelady

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
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5)
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.