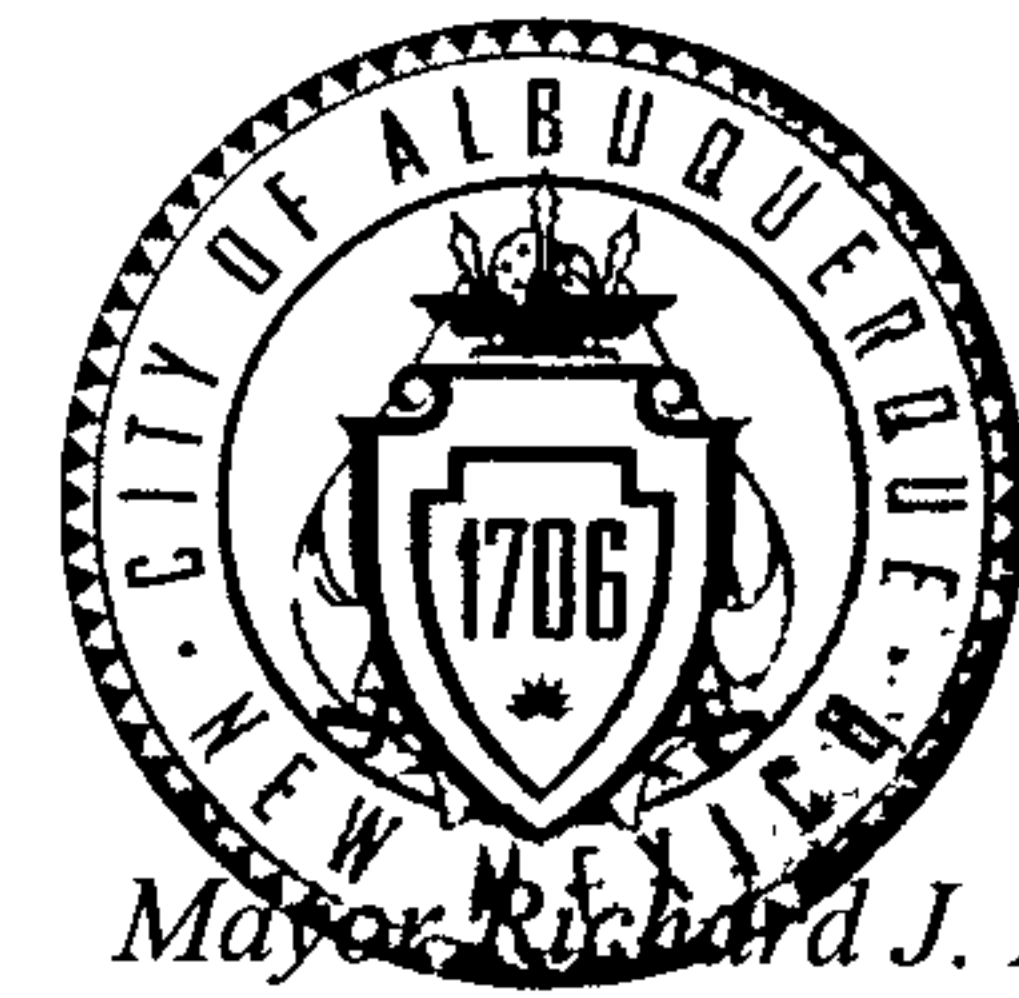


CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



November 25, 2015

Richard Dourte, P.E.
RHD Engineering, LLC
4305 Purple Sage Ave NW
Albuquerque, NM 87120

RE: First Christian Church
10101 Montgomery Blvd NE
Request Permanent C.O. - Approved
Engineers Stamp Date 4/1/15 (F21D080)

Dear Mr. Dourte,

PO Box 1293

Based on the Certification received 11/24/2015, the First Christian Church is acceptable for release of Certificate of Occupancy by Hydrology.

Albuquerque

If you have any questions, you can contact me at 924-3695 or Totten Elliott at 924-3982.

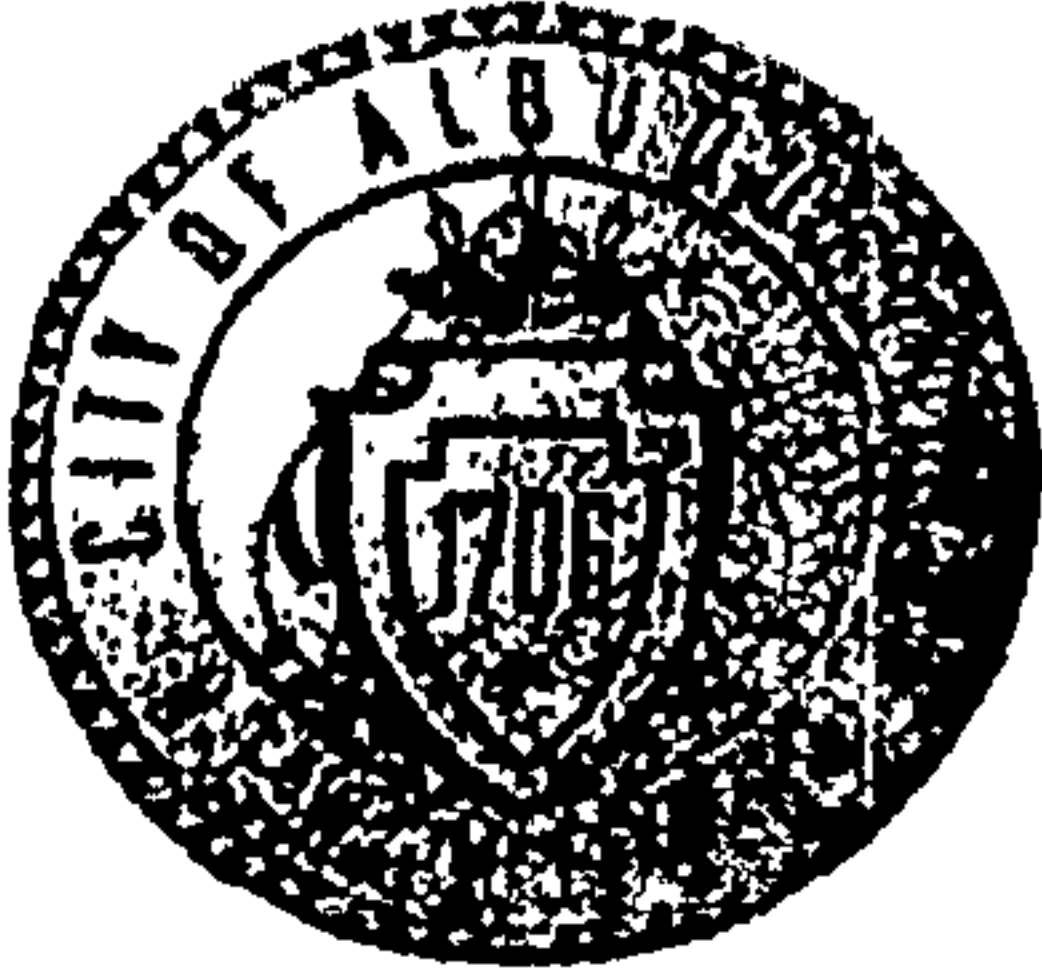
New Mexico 87103

www.cabq.gov

Sincerely,

Abiel Carrillo, P.E.
Principal Engineer, Planning Department
Development and Review Services

TE/AC
C: File



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: First Christian Church Building Permit #: _____ City Drainage #: E21-D080
DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: Tract A-1, First Church Addition

City Address: 10101 Montgomery blvd NE, Alb, NM

Engineering Firm: RHD Engineering, LLC

Contact: Richard Dourte

Address: 4305 Purple Sage Ave. NW, Albuquerque, NM, 87120

Phone#: 505-288-1621

Fax#: _____

E-mail: rhdenengineering@outlook.com

Owner: _____

Contact: _____

Address: _____

Phone#: _____

Fax#: _____

E-mail: _____

Architect: Simons Architecture PC

Contact: Joe Simons

Address: PO box 67408, Alb., NM 87193

Phone#: 505-480-4796

Fax#: _____

E-mail: joe@simonsarchitecture.com

Surveyor: Construction Surveys Technologies, Inc.

Contact: John Gallegos

Address: _____

Phone#: 505-917-8921

Fax#: _____

E-mail: nmsurveyor@gmail.com

Contractor: _____

Contact: _____

Address: _____

Phone#: _____

Fax#: _____

E-mail: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL G & D PLAN
- ☐ GRADING PLAN
- ☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ☒ ENGINEER'S CERT (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEER'S CERT (TCL)
- ☐ ENGINEER'S CERT (DRB SITE PLAN)
- ☐ ENGINEER'S CERT (ESC)
- ☐ SO-19
- ☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE 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
- ☒ CERTIFICATE OF OCCUPANCY (PERM)
- ☐ CERTIFICATE OF OCCUPANCY (TCL TEMP)
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ GRADING CERTIFICATION

RECEIVED	
NOV 23 2015	
LAND DEVELOPMENT SECTION	RECEIVED
NOV 24 2015	
SO-19 APPROVAL	ESC PERMIT DEVELOPMENT SECTION
ESC CERT. ACCEPTANCE	OTHER (SPECIFY) _____

WAS A PRE-DESIGN CONFERENCE ATTENDED: _____

Yes

No

Copy Provided

DATE SUBMITTED: 11-24-15

By: Richard Dourte

Requests for approvals of Site Development Plans and/or Subdivision Plans 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
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3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than an part of a larger common plan of development

11-24-15

First Christian Church

F21-D080

DRAINAGE CERT. Appendix

- Two sidewalk culverts were constructed at 17" each instead of 24" each.

Per Francis Equation for rectangular weir

$$Q = 3.33(L - 0.2H)(H)^{3/2}$$

$$L = 17 \frac{1}{2} \text{ in} = 1.42 \text{ ft}$$

$$H = 0.5 \text{ ft}$$

$$Q = 3.33(1.42 - 0.2(0.5))(0.5)^{3/2}$$

$$= 1.55 \text{ cfs each}$$

$$\therefore 2 \text{ culverts} = 2 \times 1.55 \text{ cfs} = 3.1 \text{ cfs}$$

The capacity of the Pond outlet pipe is 2 cfs, Therefore the two 17" culverts at 3.1 cfs are adequate.

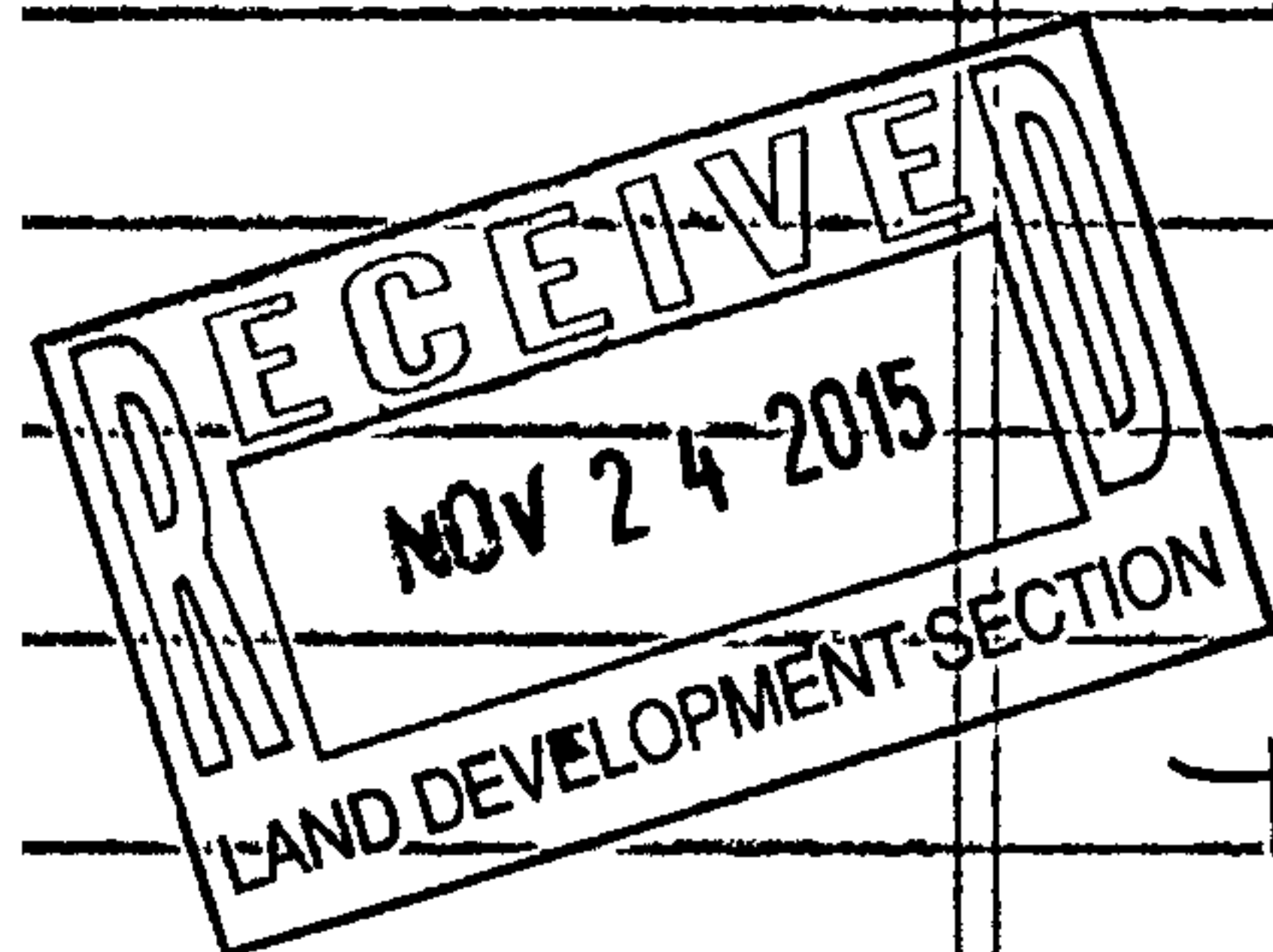
$$\text{Pond Volume} = \text{AUE area} \times \text{Depth}$$

$$\text{AUE Area} = 1,325 \text{ sf}, \text{ Depth} = 2.3 \text{ ft}$$

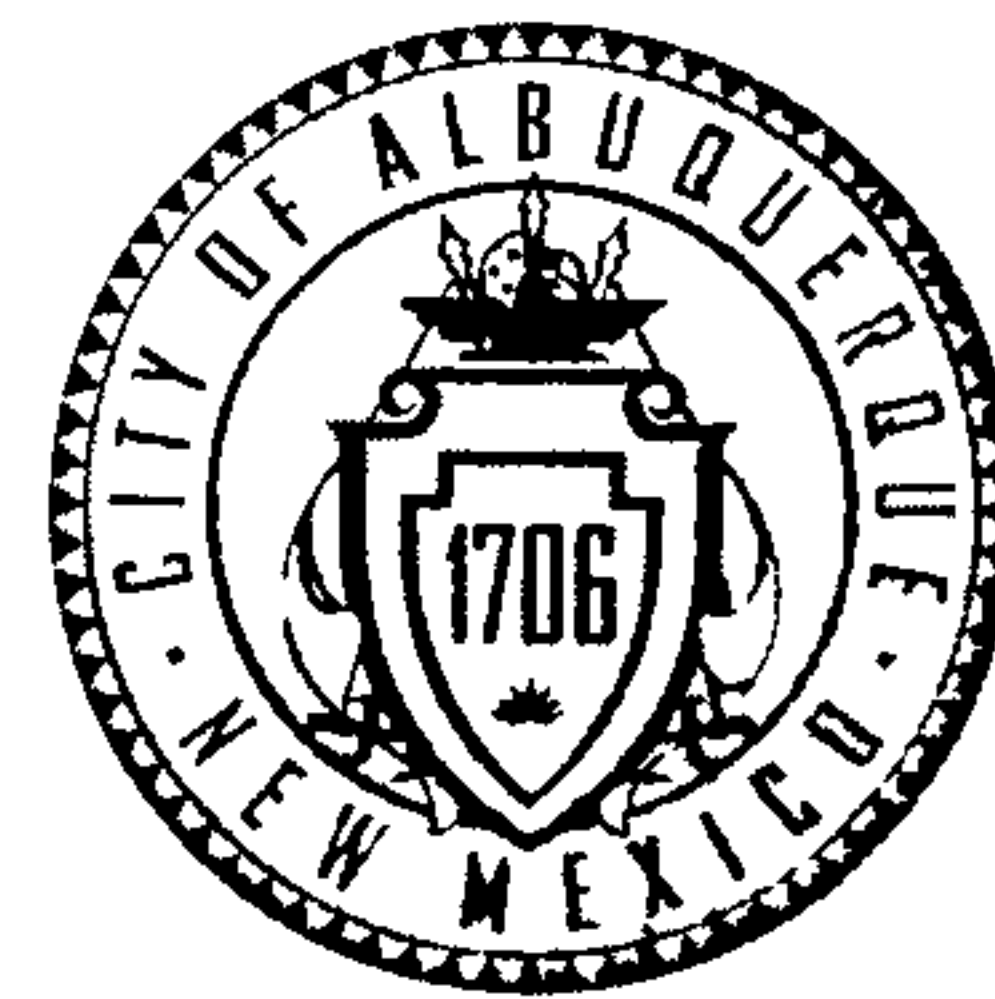
$$\text{Volume} = 1,325 \times 2.3 \approx 3,050 \text{ cf}$$

$$\text{First Flush Pond requirement} = 1,640 \text{ cf}$$

Thus the Pond exceeds the Ponding requirements.



CITY OF ALBUQUERQUE



April 16, 2015

Richard Dourte, PE
RHD Engineering, LLC
10101 Montgomery Blvd., NE
Albuquerque, NM 87120

**RE: First Christian Church, 10101 Montgomery Blvd.
Grading and Drainage Plan
Engineer's Stamp Date 4-01-2015 (File: F21-D080)**

Dear Mr. Dourte:

Based upon the information provided in your submittal received 4-01-15, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan in the construction sets when submitting for a building permit.

PO Box 1293

Prior to Certificate of Occupancy release, Engineer Certification per the DPM Checklist will be required.

Albuquerque

If you have any questions, you can contact me at 924-3924.

New Mexico 87103

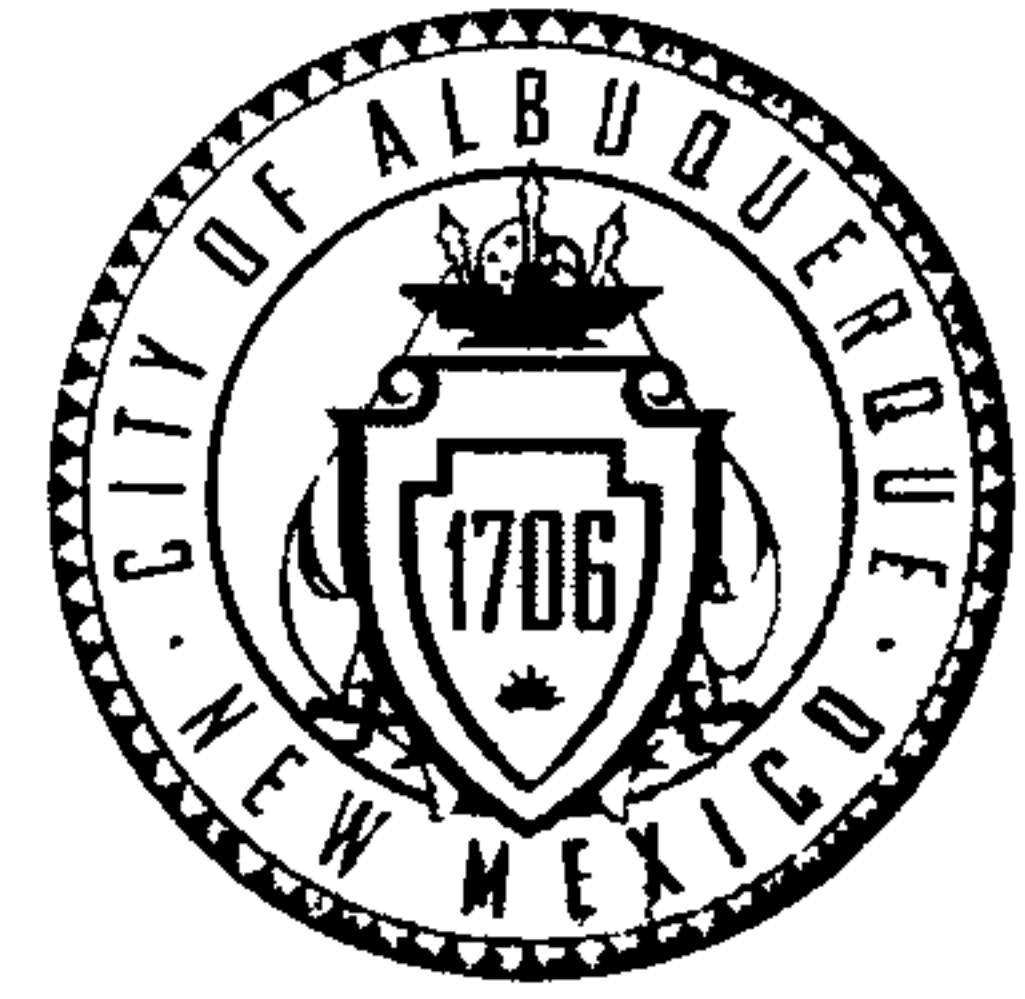
Sincerely,

www.cabq.gov

Jeanne Wolfenbarger, P.E.
Senior Engineer, Planning Dept.
Development Review Services

Orig: Drainage file
c.pdf via Email: Recipient, Monica Ortiz

CITY OF ALBUQUERQUE



April 16, 2015

Richard Dourte, PE
RHD Engineering, LLC
10101 Montgomery Blvd., NE
Albuquerque, NM 87120

**RE: First Christian Church, 10101 Montgomery Blvd.
Grading and Drainage Plan
Engineer's Stamp Date 4-01-2015 (File: F21-D080)**

Dear Mr. Dourte:

Based upon the information provided in your submittal received 04-01-15, the above referenced plan is approved for SO-19.

A separate Excavation/Barricading Permit is required for SO-19 construction within City ROW. A copy of this approval letter must be on hand when applying for the permit. To obtain a C.O., the storm drain work in the City ROW must be inspected and accepted. Please contact Jason Rodriguez, 857-8074, to schedule an inspection.

If you have any questions, you can contact me at 924-3924.

Sincerely,

Jeanne Wolfenbarger, P.E.
Senior Engineer, Planning Dept.
Development Review Services

Orig: Drainage file

c.pdf: via Email: Recipient, Monica Ortiz
Jason Rodriguez, Street/Storm Drain Maintenance, JTRodriguez@cabq.gov,
Antoinette Baldonado, DMD



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: First Christian Church Building Permit #: _____ City Drainage #: F21/0080
DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: Tract A-1, First Church Addition

City Address: 10101 Montgomery blvd NE, Alb, NM

Engineering Firm: RHD Engineering, LLC

Contact: Richard Dourte

Address: 4305 Purple Sage Ave. NW, Albuquerque, NM, 87120

Phone#: 505-288-1621

Fax#: _____

E-mail: rhdengeering@outlook.com

Owner: _____

Contact: _____

Address: _____

Phone#: _____

Fax#: _____

E-mail: _____

Architect: Simons Architecture PC

Contact: Joe Simons

Address: PO box 67408, Alb., NM 87193

Phone#: 505-480-4796

Fax#: _____

E-mail: joe@simonsarchitecture.com

Surveyor: Construction Surveys Technologies, Inc.

Contact: John Gallegos

Address: _____

Phone#: 505-917-8921

Fax#: _____

E-mail: nmsurveyor@gmail.com

Contractor: _____

Contact: _____

Address: _____

Phone#: _____

Fax#: _____

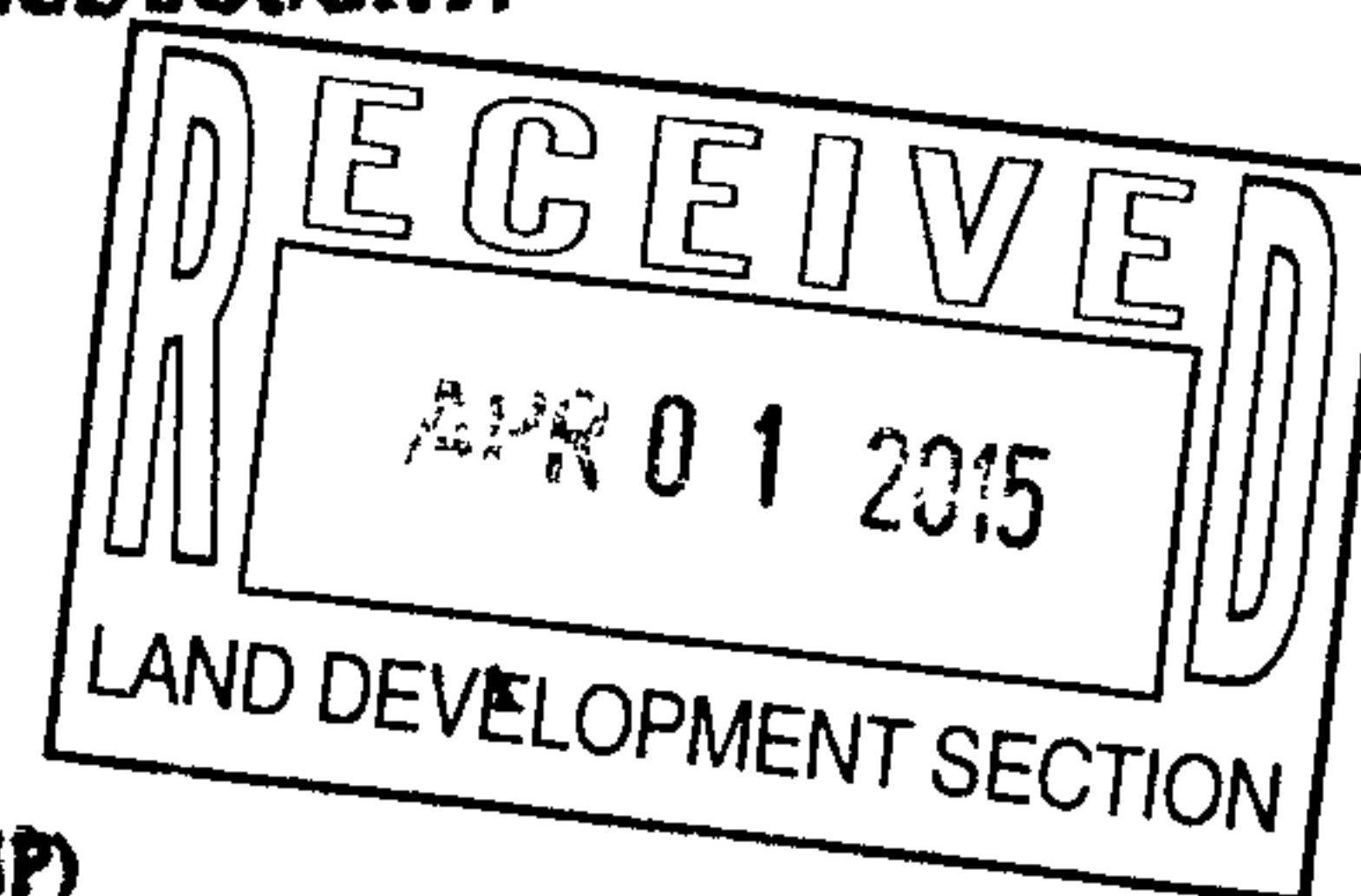
E-mail: _____

TYPE OF SUBMITTAL:

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- ☐ DRAINAGE PLAN 1st SUBMITTAL
- ☒ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL G & D PLAN
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- ☐ WORK ORDER APPROVAL
- ☐ GRADING CERTIFICATION
- ☒ SO-19 APPROVAL
- ☐ ESC PERMIT APPROVAL
- ☐ ESC CERT. ACCEPTANCE
- ☐ OTHER (SPECIFY) _____



WAS A PRE-DESIGN CONFERENCE ATTENDED: _____

☒ Yes

☐ No

Copy Provided _____

DATE SUBMITTED: 4-01-15

By: _____

Requests for approvals of Site Development Plans and/or Subdivision Plans 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
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4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than all part of a larger common plan of development

March 30, 2015

Ms. Jeanne Wolfenbarger,
Senior Engineer, Planning Department
Development Review Services
600 Second Street
City of Albuquerque, NM 87102

RE: First Christian Church, 10101 Montgomery Boulevard NE
Grading and Drainage Plan (F21-D080)

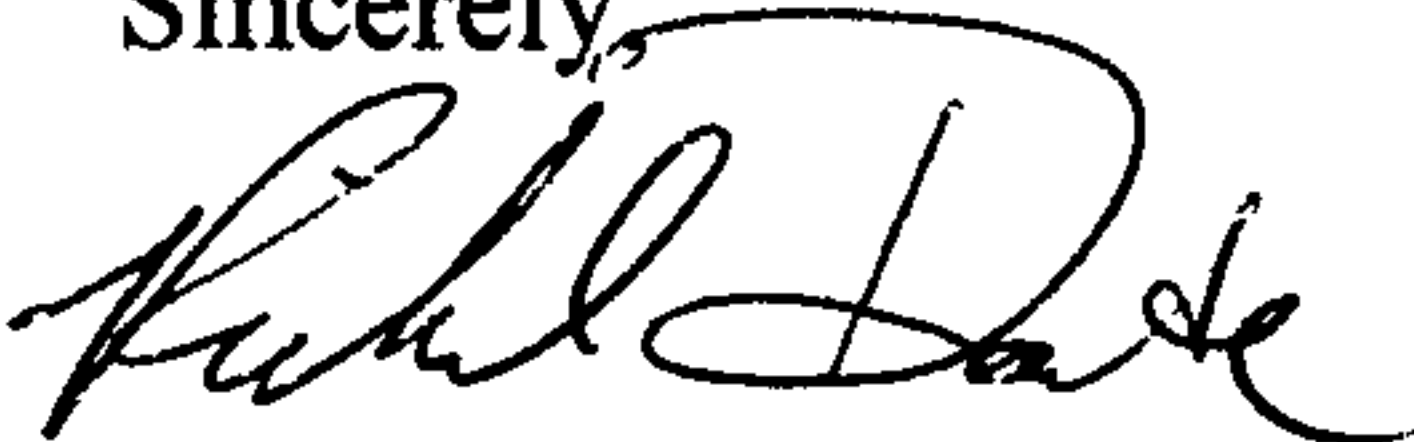
Dear Ms. Wolfenbarger,

Thank you for your letter dated March 27, 2015 (enclosed) regarding the above referenced project. The following is in response to your items:

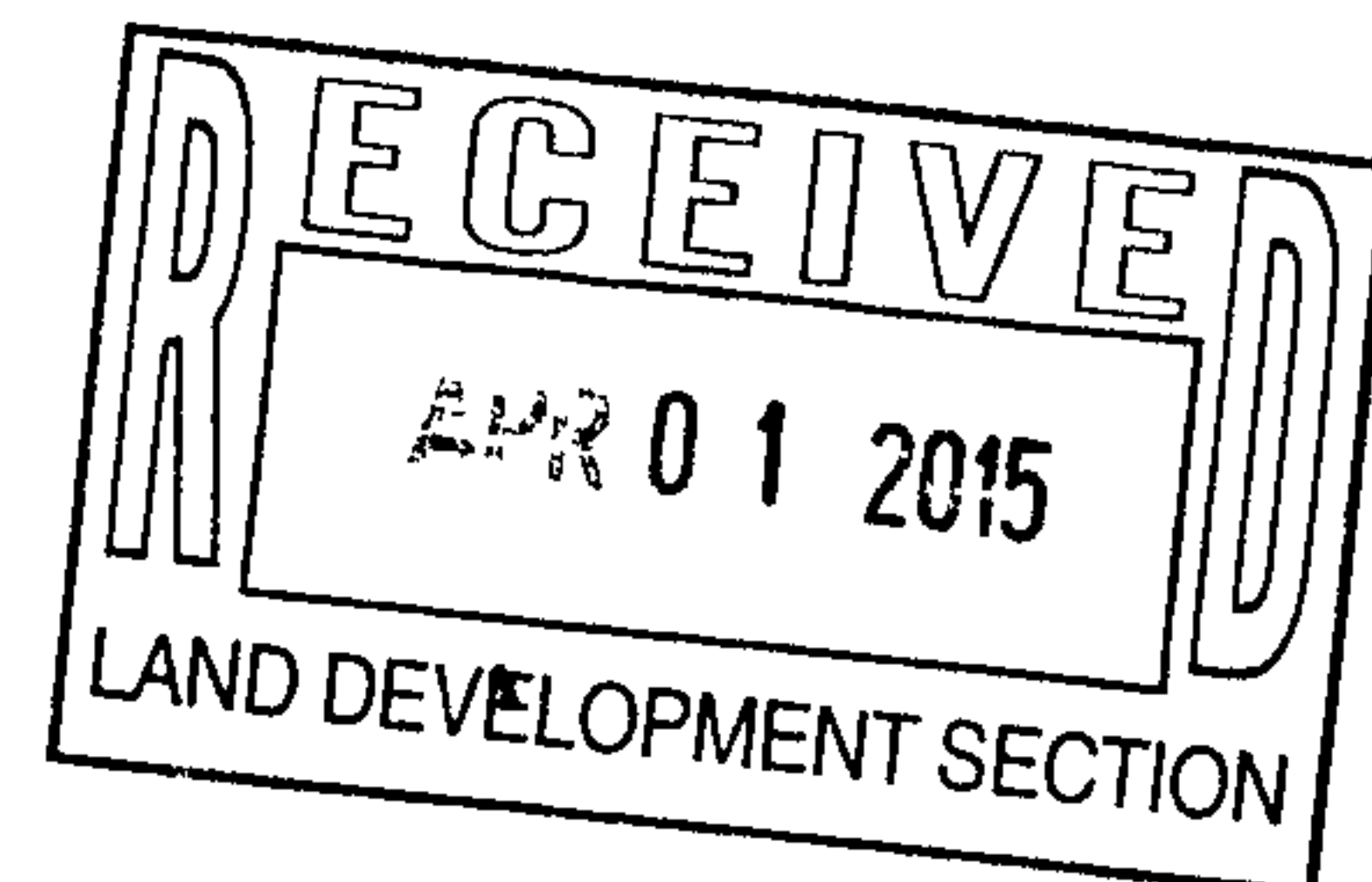
1. The new improvement area that are contributing to the 0.13 ac area you referenced are included on the attached document. Elevation information is included on the grading plan.
2. The information requested in included on the attached document or on the grading plan.
3. The elevations have been corrected on the grading plan.
4. The sidewalk has been labeled, std dwg drawing has been called out and the detail for the pipe outlet and culvert have been added to the grading plan.

Thank you..

Sincerely,



Richard Dourte, PE
RHD Engineering, LLC



Areas Contributing to the 0.13ac area increase of impervious area.

Areas	Flow rate	Flow (100yr 6hr)
Roof area = 7275sf = 0.17ac	5.25cfs/ac	0.9cfs
Patio and stage = 0.13ac	5.25cfs/ac	0.7cfs
Landscaping area = 0.09ac	3.73cfs/ac	0.3cfs
Total		1.9cfs

This area has two inlets, thus 1cfs per inlet, the depth of water on those inlets would be 0.25ft, see attached chart...

The pipe capacity for a 12 in HDPE pipe at 1% grade is:

$$\begin{aligned}Q &= (1.49/n)(A)(R)^{2/3}(S)^{1/2} \\&= (1.49/0.01)(0.785)(.25)^{2/3}(.01)^{1/2} \\&= 4.6\text{cfs}\end{aligned}$$

The pipe capacity for a 12 in HDPE outlet pipe at 2% grade is:

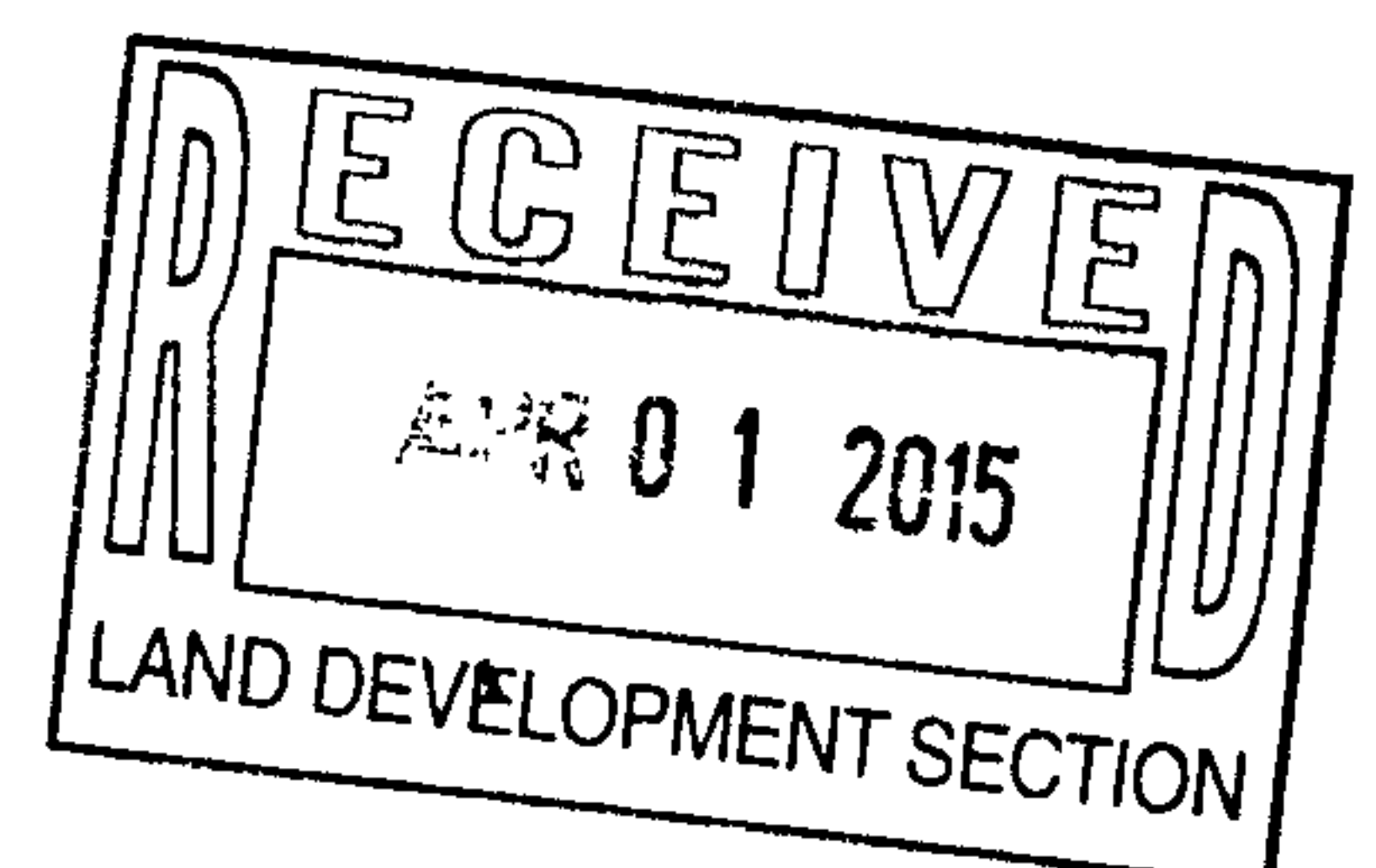
$$\begin{aligned}Q &= (1.49/n)(A)(R)^{2/3}(S)^{1/2} \\&= (1.49/0.01)(0.785)(.25)^{2/3}(.02)^{1/2} \\&= 6.5\text{ cfs}\end{aligned}$$

The grate capacity at the outlet for the first flush pond is 2cfs, please see the attached chart.

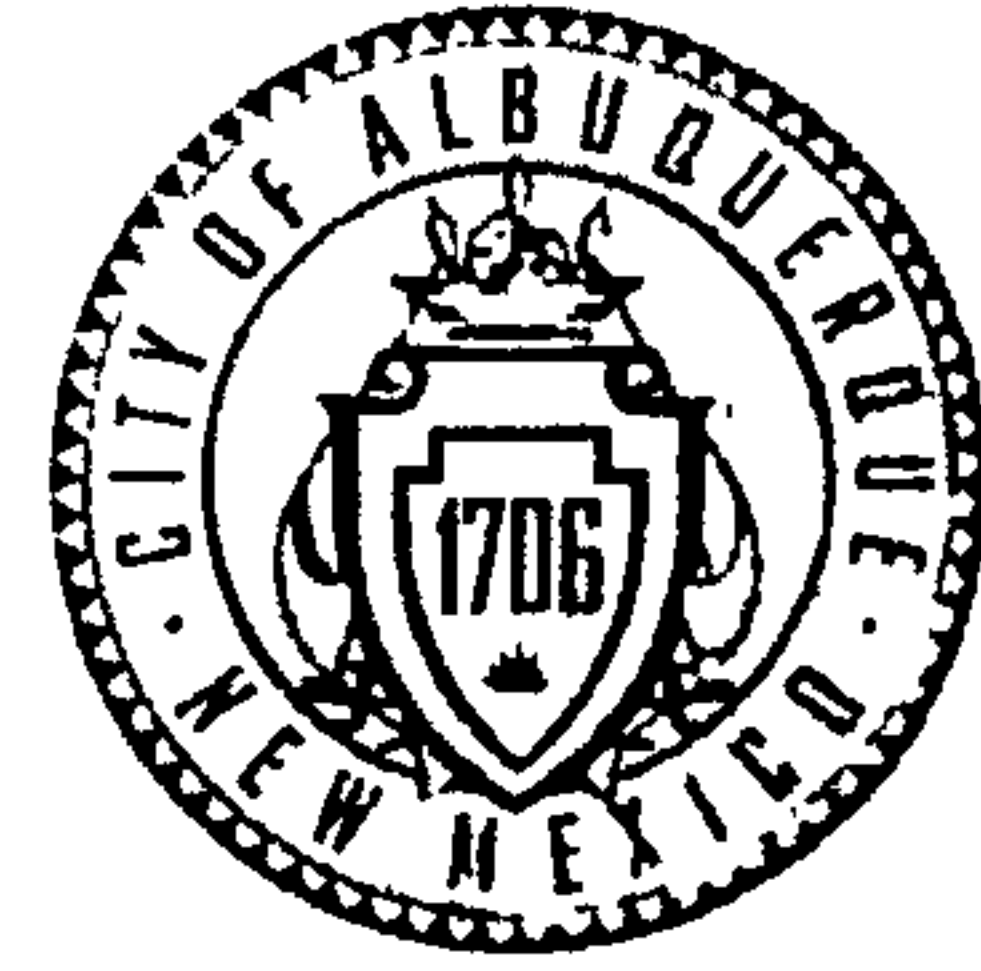
The sidewalk culvert capacity (per single 2ft culvert) is:

$$\begin{aligned}Q &= (1.49/n)(A)(R)^{2/3}(S)^{1/2} \\&= (1.49/.013)(1.0)(.333)^{2/3}(.01)^{1/2} \\&= 5\text{cfs (each)}\end{aligned}$$

Thus the max flow from the outlet pipe is 2cfs that flows into the sidewalk culverts that have a capacity of 6.5cfs each.



CITY OF ALBUQUERQUE



March 27, 2015

Richard Dourte, PE
RHD Engineering, LLC
10101 Montgomery Blvd., NE
Albuquerque, NM 87120

**RE: First Christian Church, 10101 Montgomery Blvd.
Grading and Drainage Plan
Engineer's Stamp Dated 3-09-15 (File: F21-D080)**

Dear Mr. Dourte:

Based upon the information provided in your submittal received 3-9-15, the above referenced plan cannot be approved for Building Permit and for SO-19 until the following comments are addressed:

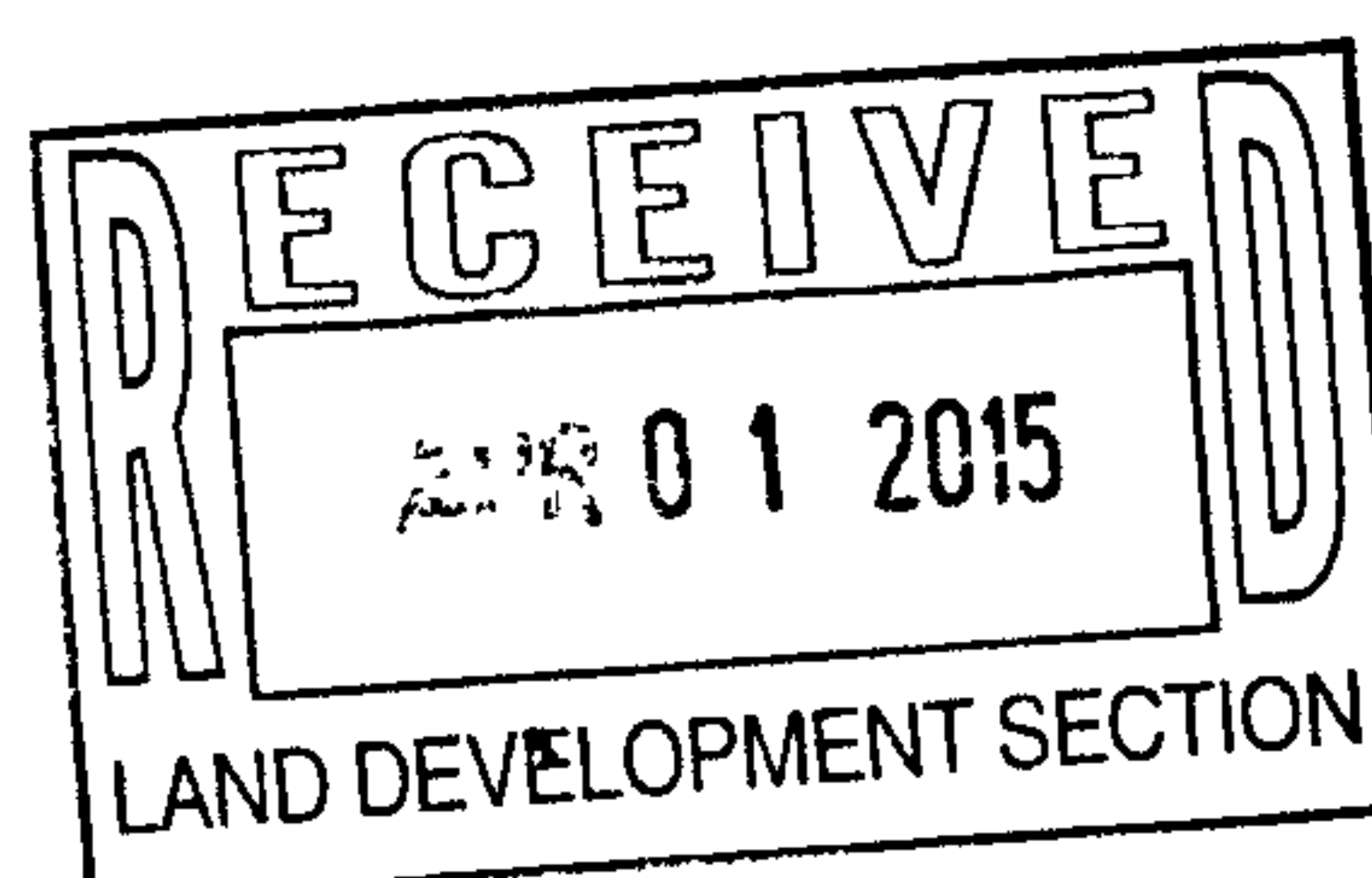
PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

- 1) Show all new improvements that are contributing to the 0.13-acre increase in impervious area on the plan including the patio. Show elevation information for these new improvements.
- 2) For each of the proposed pipe runs, inlets, and sidewalk culverts, show capacity calculations. Label slope and flow that each pipe run is conveying.
- 3) The sidewalk culvert invert elevations and the neoplast area drain invert elevations appear to be 10 feet off. The culvert invert is also higher than the 12" HDPE pipe invert. Double-check these elevations, and revise as needed.
- 4) Label the existing curb and the existing sidewalk width. Call out COA Standard Dwg. 2236 for construction of the culverts. To prevent drop-off situation from sidewalk, extend sidewalk culvert 2 feet behind back of sidewalk. Show transition from 12" pipe to 2 sidewalk culverts.



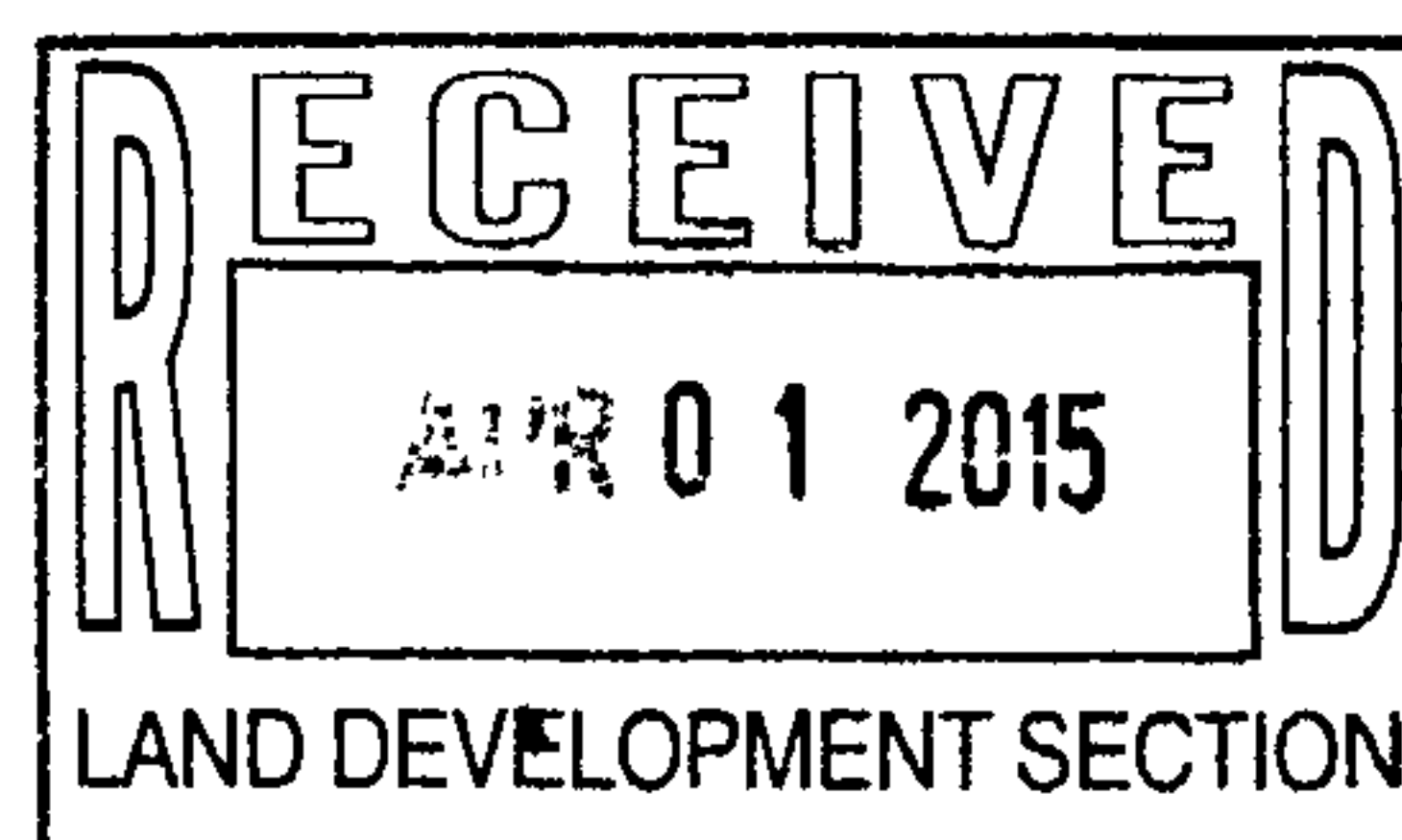
If you have any questions, you can contact me at 924-3924.

Sincerely,

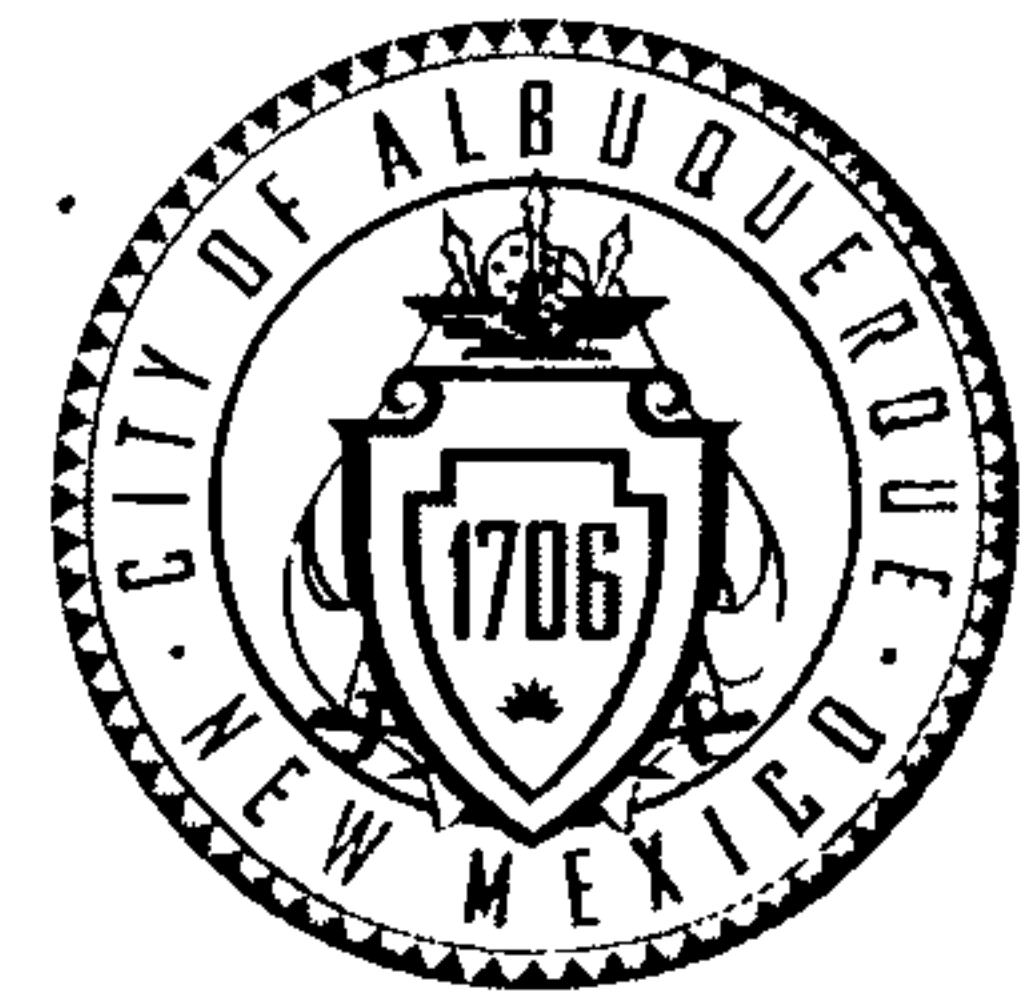


Jeanne Wolfenbarger, P.E.
Senior Engineer, Planning Dept.
Development Review Services

Orig: Drainage file
c.pdf Addressee via Email



CITY OF ALBUQUERQUE



March 27, 2015

Richard Dourte, PE
RHD Engineering, LLC
10101 Montgomery Blvd., NE
Albuquerque, NM 87120

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Albuquerque

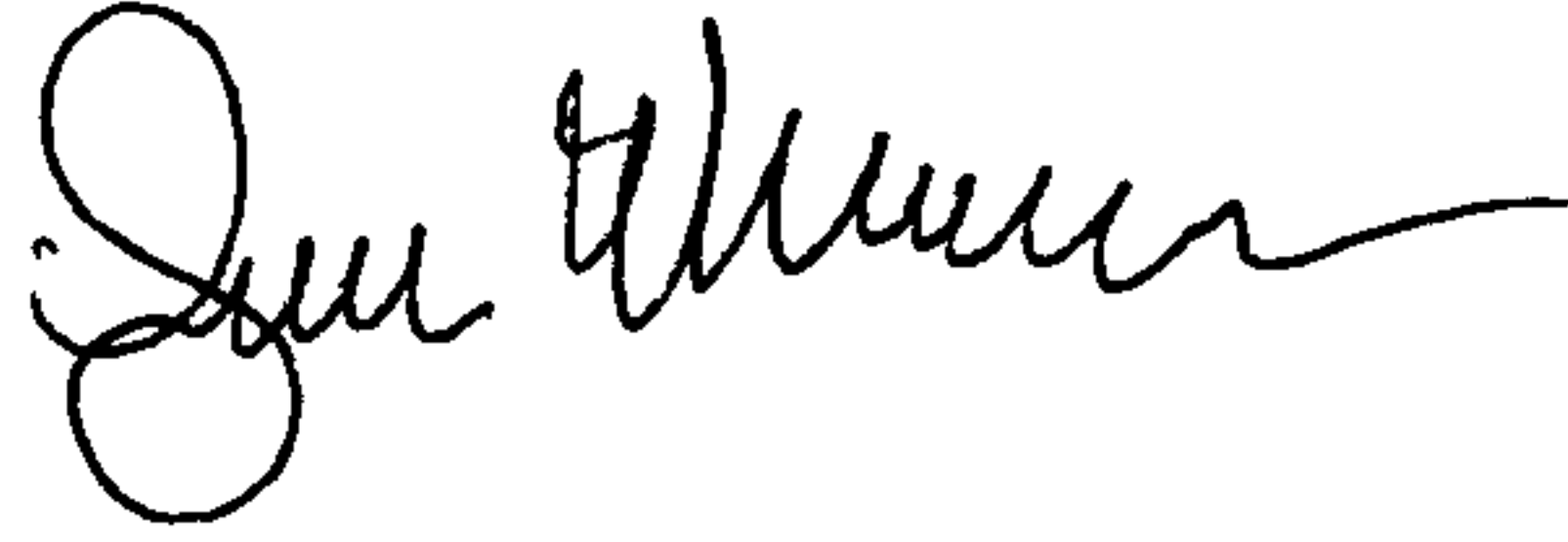
New Mexico 87103

www.cabq.gov

- 1) Show all new improvements that are contributing to the 0.13-acre increase in impervious area on the plan including the patio. Show elevation information for these new improvements.
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- 4) Label the existing curb and the existing sidewalk width. Call out COA Standard Dwg. 2236 for construction of the culverts. To prevent drop-off situation from sidewalk, extend sidewalk culvert 2 feet behind back of sidewalk. Show transition from 12" pipe to 2 sidewalk culverts.

If you have any questions, you can contact me at 924-3924.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeanne Wolfenbarger". The signature is fluid and cursive, with a large initial "J" and a long, sweeping horizontal line at the end.

Jeanne Wolfenbarger, P.E.
Senior Engineer, Planning Dept.
Development Review Services

Orig: Drainage file
c.pdf Addressee via Email

Drainage Report

For

First Christian Church
10101 Montgomery Blvd NE
Albuquerque, New Mexico

Prepared by

RHD Engineering, LLC
Albuquerque, New Mexico

March 9, 2015

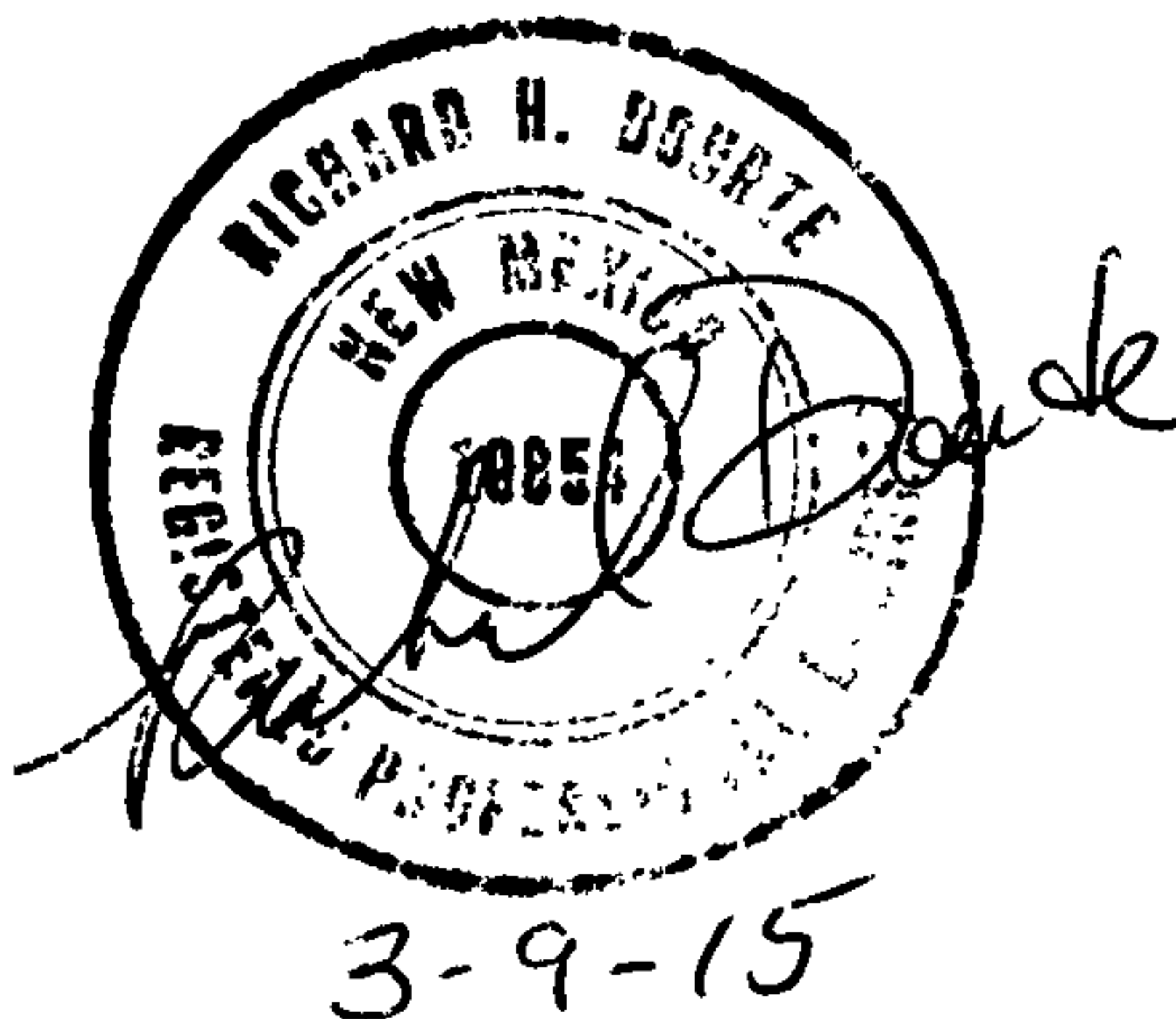
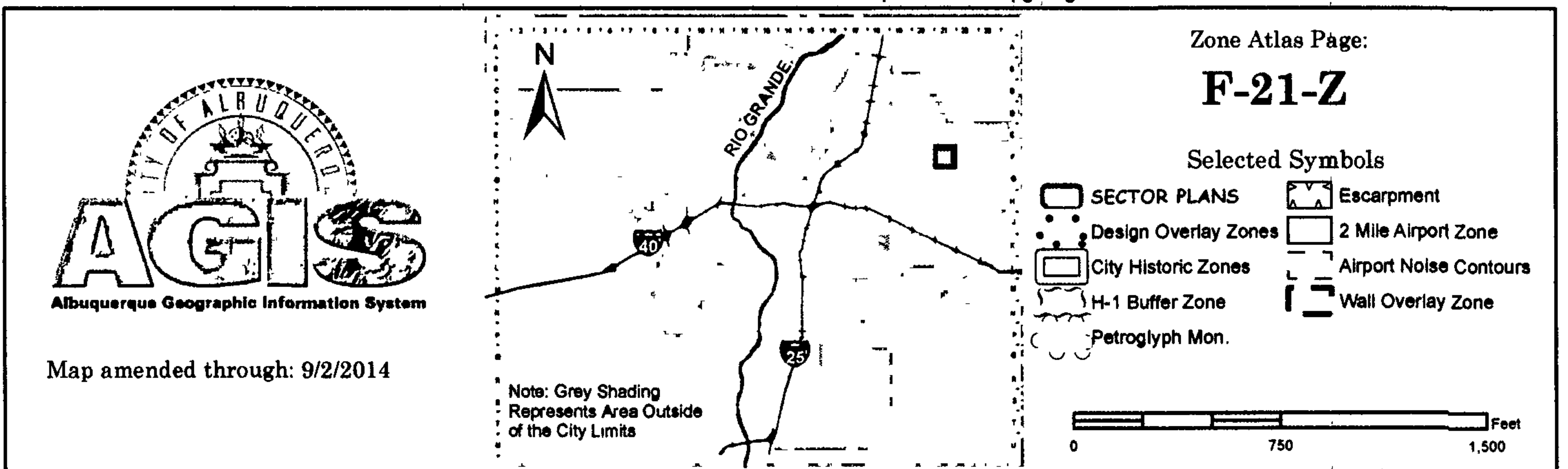
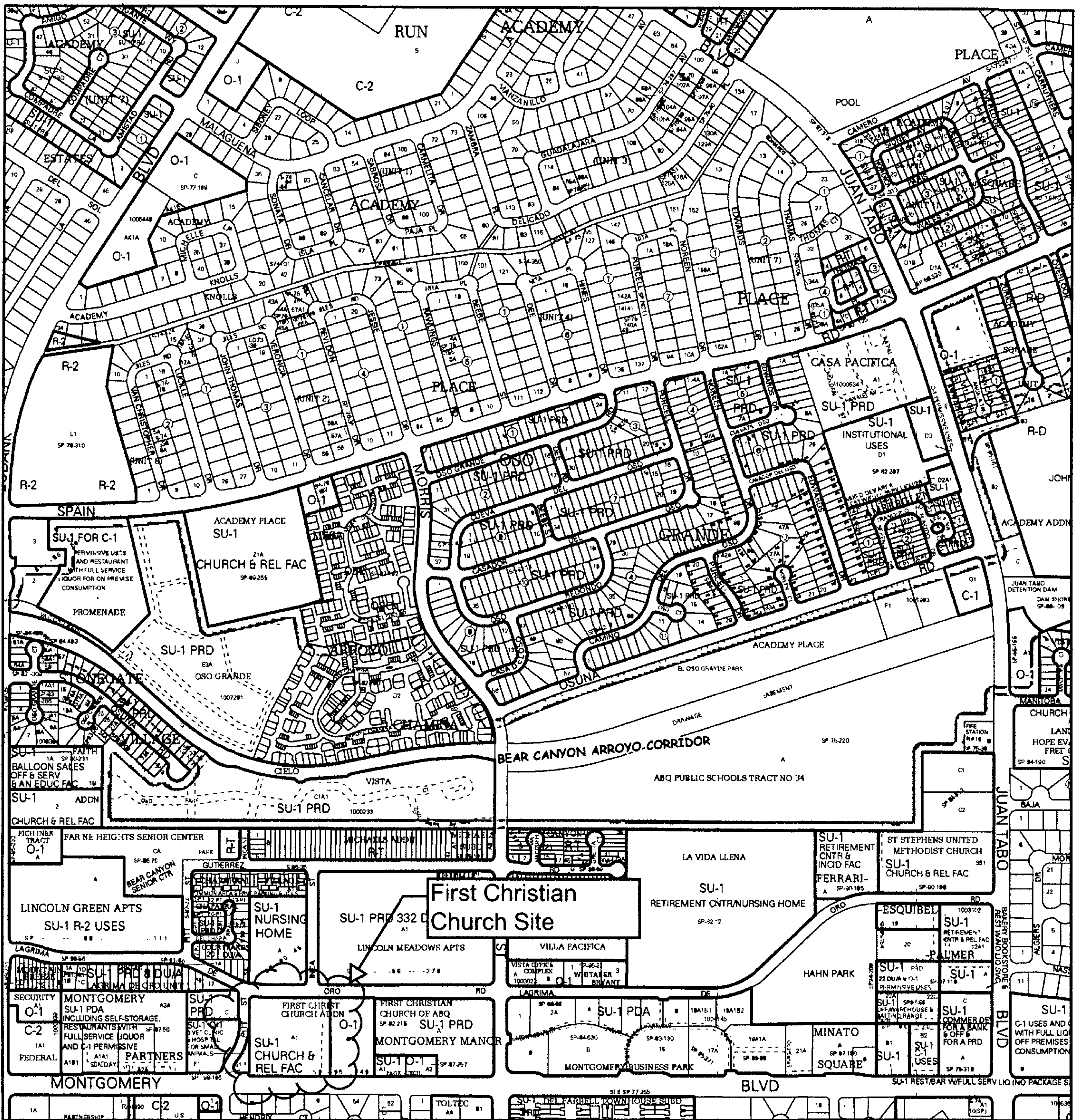


Table of Contents

Vicinity Map.....	page 1
Purpose.....	page 2
Introduction.....	page 2
Existing Conditions.....	page 2
Proposed Conditions.....	page 3
Summary.....	page 3
Appendix	
Site Hydrology/hydraulic Calculations.....	Appendix A
Site Grading and Grading Plan.....	Appendix B



Purpose:

The purpose of this drainage report is to provide a drainage management plan for the proposed changes to the First Christian Church. The site is approximately 4.2 acres in size. The proposed changes include increasing an existing outdoor patio enclosed by a wall along (new wall to be constructed) with a new playground that is also to be enclosed by a new wall. This drainage report and plan is prepared utilizing the City of Albuquerque Development Process Manual.

Introduction:

After consultation with and searching the records within the Hydrology Section of the Development Review Services Division of the Planning Department, no drainage file was found. The site, per the records in the Building Safety Division, was originally developed around 1972 and an addition was added in approximately 1979.

The proposed new improvements include a large screen wall and stage with exterior meeting area along with a new playground. The landscaping is also proposed to be improved.

FEMA Firm map 35001C0114G identifies that this site is located in zone x. Please refer to the drainage plan.

Existing Drainage Conditions:

The parking lot, the north sloping building roof for this site and a small landscaped area on the west side of the building (drainage basin A) drain to the southwest, then flows into Pitt street located west of this site.

The entrance to this site that directly accesses Montgomery (basin B) drains and free discharges directly into Montgomery Blvd. There are off-site flows from the east that enter this basin.

A portion of the building's roof and eastern section of landscaping (basin C) drain drains and free discharges into Montgomery Blvd. The remainder of this site (drainage basin D) drains to the south west and free discharges into Montgomery Blvd.

Proposed Conditions:

The proposed conditions are for the drainage from basins A, B and C remain as they are today. There is no proposed changes for these areas.

The proposed condition for the drainage from basin D is to route the flows through the pond. This pond will have a controlled discharge via the outlet for this pond.

The required first flush volume of stormwater generated by the new impervious areas (the stage and the new concrete patio) will be retained within the bottom 2 feet of the pond.

Summary:

This site will discharge the stormwater flows in the same manner as it is today.

For Basin D

The peak flows will increase from 3.71 cfs to 3.91 cfs or by 0.20 cfs for the 100 yr 6 hr. event.

The excess precipitation will increase from 5,707 cf to 6,276 cf or by 569 cf for the 100 yr 6 hr event. However the first flush pond will retain 3664 cf, thus the overall excess precipitation will be reduced to 2,612 cf.

The peak The City of Albuquerque's first flush requirements will be adhered to for the construction of the proposed improvements. The first flush for the proposed improvements is 164 cf and the first flush pond (bottom 2 feet of the total pond) is 3664 cf, thus the first flush pond has a much greater capacity than what is needed.

APPENDIX A

Drainage Calculations for Basin D

Zone 4 (100yr, 6hr)

Land Treatment	Peak discharge	Excess Precipitation
Type A -	2.20 cfs/ac	0.80 inches
Type B -	2.92 cfs/ac	1.08 inches
Type C -	3.73 cfs/ac	1.46 inches
Type D -	5.25 cfs/ac	2.64 inches

Existing Conditions for Basin D

Roof (type D)= 8962 sf = 0.21 ac

Area other than Roof (type C)= 30,700 sf = 0.70 ac

Peak Flow generated

0.21 ac x 5.25 cfs = 1.10 cfs

0.70 ac x 3.73 cfs = 2.61 cfs

Total = 3.71 cfs

Excess Precipitation

8962 sf x 2.64 in/12 = 1,972 cf

30,700 sf x 1.46 in/12 = 3,735 cf

Total = 5,707 cf

Proposed Conditions for Basin D

Roof (type D)= 8962 sf = 0.21 ac

New concrete patio and stage (type D)= 5,780 sf = 0.13 ac

Area other than roof, new concrete patio or stage –
land treatment (type C) = 24,920 sf = 0.57 ac

Peak Flow generated

0.21 ac x 5.25 cfs = 1.10 cfs

0.13 ac x 5.25 cfs = 0.68 cfs

0.57 ac x 3.73 cfs = 2.13 cfs

Total = 3.91 cfs

Excess Precipitation

8,962 sf x 2.64 in/12 = 1,972 cf

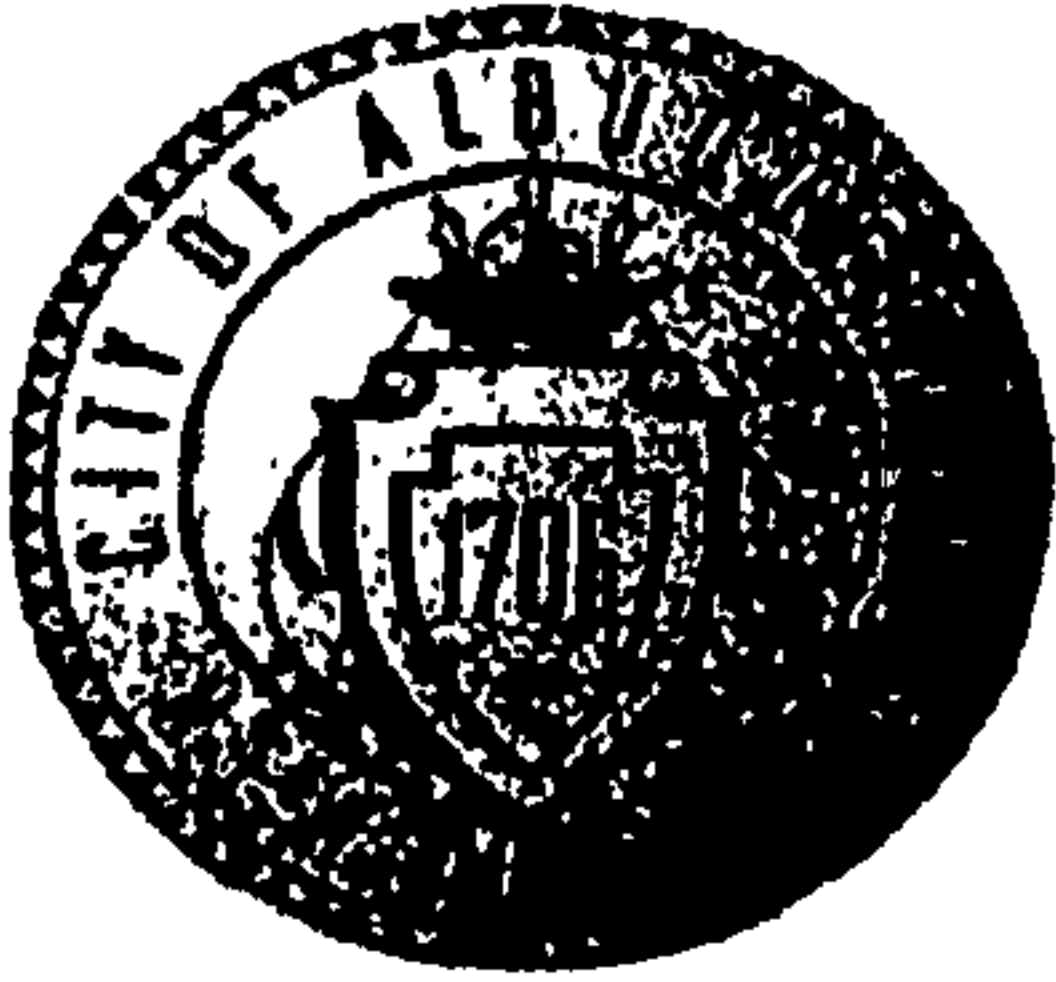
5,780 sf x 2.64 in/12 = 1,272 cf

24,920 sf x 1.46 in/12 = 3,032 cf

Total = 6,276 cf

First flush requirements (for new impervious area)

5,780 sf x 0.34 inches/12 = 164 cf.



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

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DRB#: _____ EPC#: _____ Work Order#: _____

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Contact: Richard Dourte

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Contact: _____

Address: _____

Phone#: _____

Fax#: _____

E-mail: _____

Architect: Simons Architecture PC

Contact: Joe Simons

Address: PO box 67408, Alb., NM 87193

Phone#: 505-480-4796

Fax#: _____

E-mail: joe@simonsarchitecture.com

Surveyor: Construction Surveys Technologies, Inc.

Contact: John Gallegos

Address: _____

Phone#: 505-917-8921

Fax#: _____

E-mail: nmsurveyor@gmail.com

Contractor: _____

Contact: _____

Address: _____

Phone#: _____

Fax#: _____

E-mail: _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT

☒ DRAINAGE PLAN 1st SUBMITTAL

☐ DRAINAGE PLAN RESUBMITTAL

☐ CONCEPTUAL G & D PLAN

☐ GRADING PLAN

☐ EROSION & SEDIMENT CONTROL PLAN (ESC)

☐ ENGINEER'S CERT (HYDROLOGY)

☐ CLOMR/LOMR

☐ TRAFFIC CIRCULATION LAYOUT (TCL)

☐ ENGINEER'S CERT (TCL)

☐ ENGINEER'S CERT (DRB SITE PLAN)

☐ ENGINEER'S CERT (ESC)

☒ SO-19

☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE 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

☐ CERTIFICATE OF OCCUPANCY (PERM)

☐ CERTIFICATE OF OCCUPANCY (TCL TEMP)

☐ FOUNDATION PERMIT APPROVAL

☒ BUILDING PERMIT APPROVAL

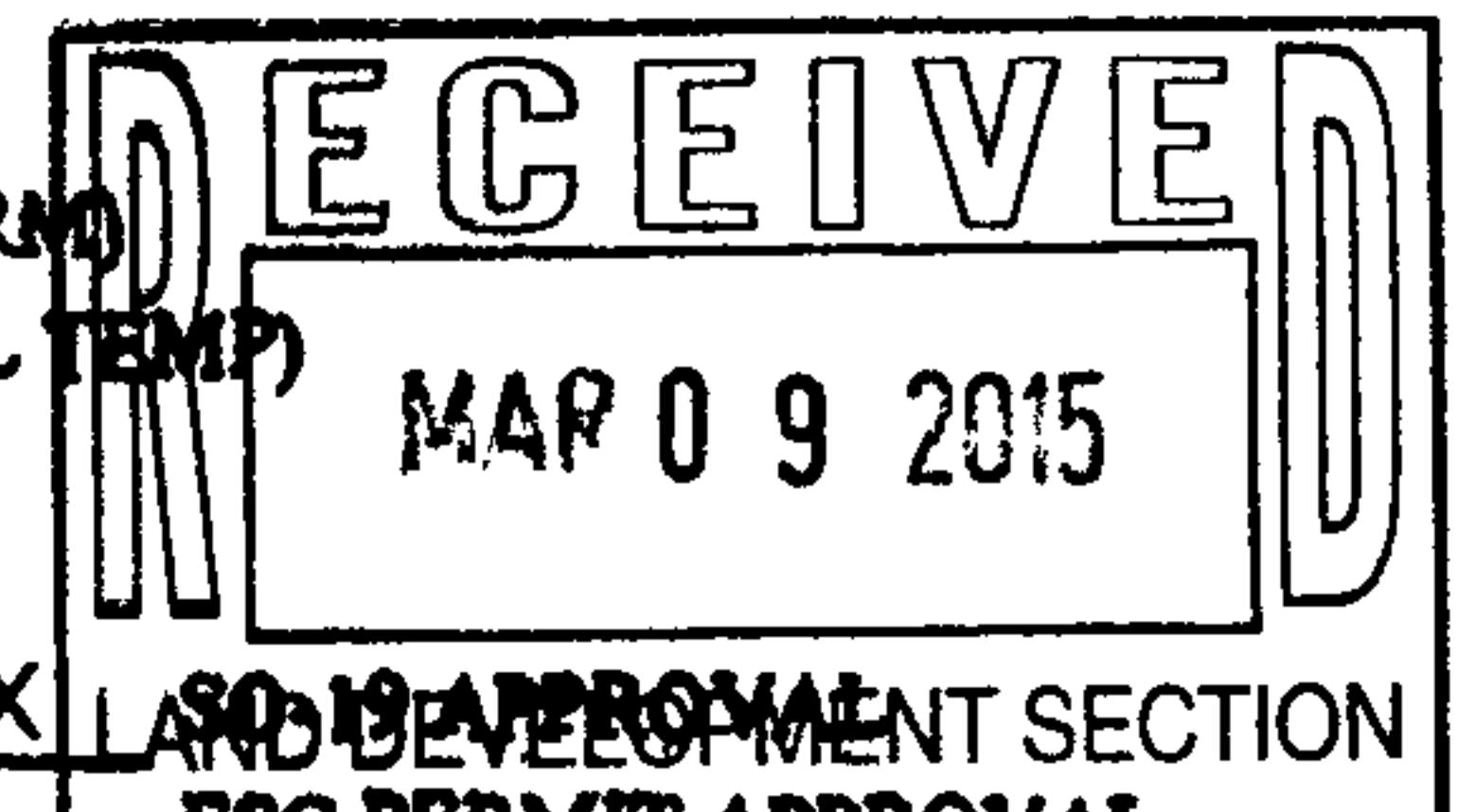
☐ GRADING PERMIT APPROVAL

☐ PAVING PERMIT APPROVAL

☐ WORK ORDER APPROVAL

☐ GRADING CERTIFICATION

paid \$50.00



☒ LAND DEVELOPMENT SECTION

☐ ESC PERMIT APPROVAL

☐ ESC CERT. ACCEPTANCE

☐ OTHER (SPECIFY) _____

WAS A PRE-DESIGN CONFERENCE ATTENDED: _____

☒ Yes

☐ No

☐ Copy Provided

DATE SUBMITTED: 3-9-15

By: _____

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
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre that is part of a larger common plan of development