

# CITY OF ALBUQUERQUE

*Planning Department*  
Suzanne Lubar, Director



*Mayer Richard J. Berry*

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

Sincerely,

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

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

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 #: F21-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: rhengineering@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 Q & 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
- ☐ SO-19 APPROVAL
- ☐ ESC PERMIT APPROVAL
- ☐ ESC CERT. ACCEPTANCE
- ☐ OTHER (SPECIFY) \_\_\_\_\_

WAS A PRE-DESIGN CONFERENCE ATTENDED: \_\_\_\_\_

Yes No Copy Provided

DATE SUBMITTED: 11-24-15 By: Rachel Dourte

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 than any 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

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

$$L = \frac{17}{12} \text{ ft} = 1.42 \text{ ft}$$

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

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

$$= 1.55 \text{ cfs EACH.}$$

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

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

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

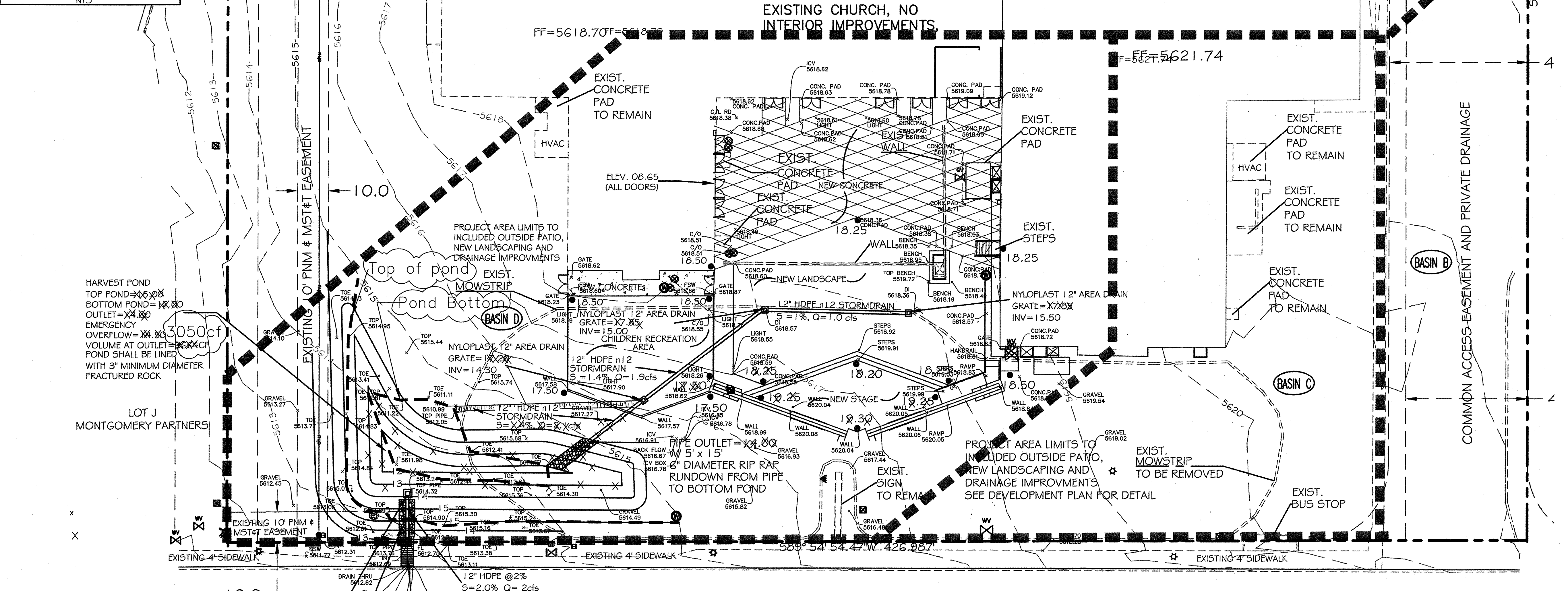
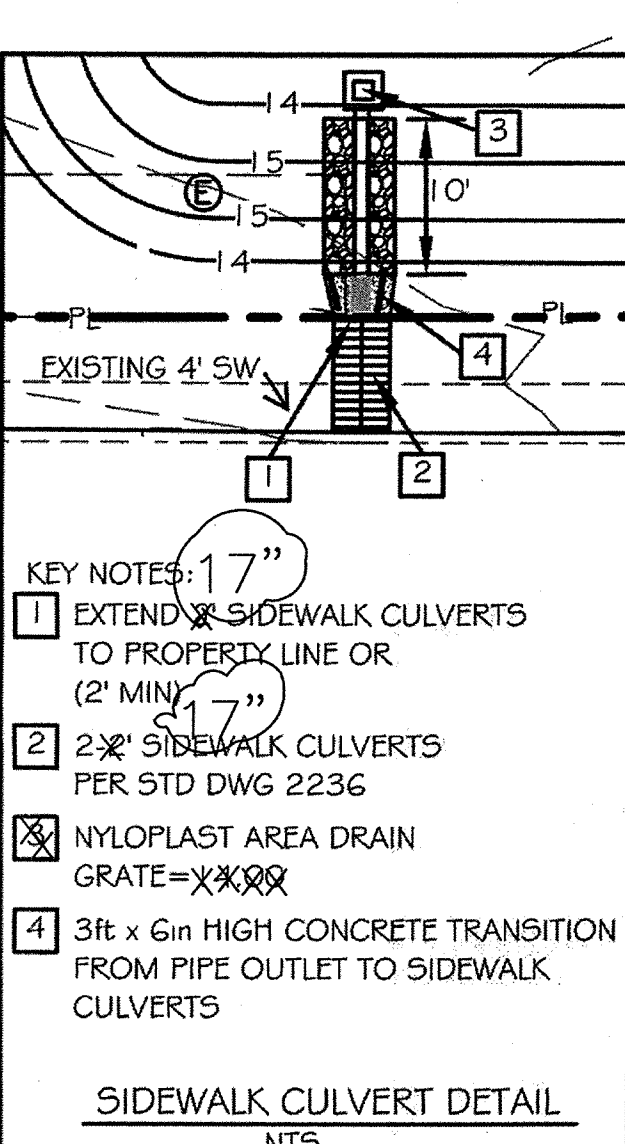
$$\text{AUE Area} = 1,325 \text{ sf}, \text{ Depth} = 2.3 \text{ ft}$$

$$\text{Volume} = 1325 \times 2.3 \approx 3050 \text{ cf}$$

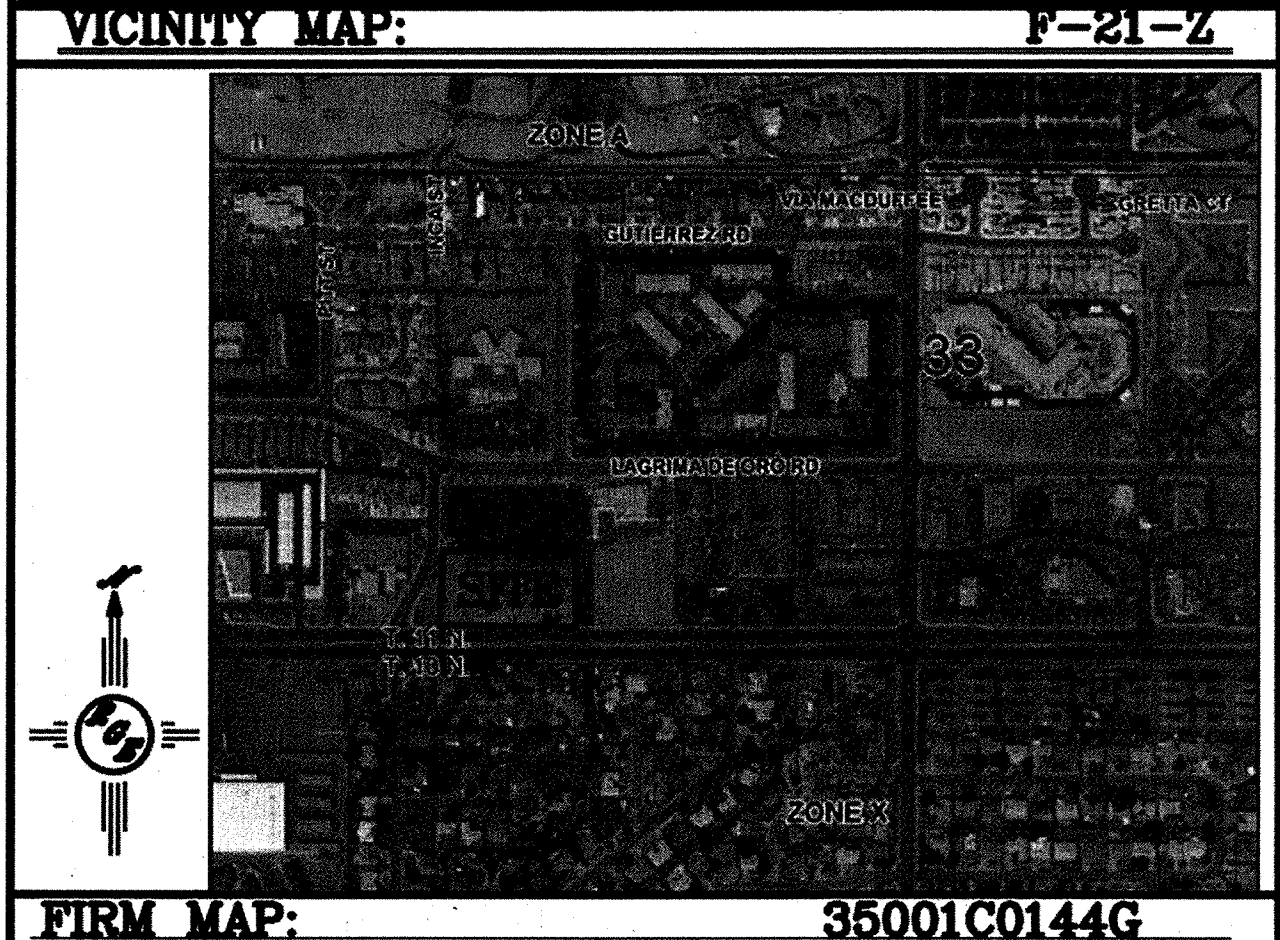
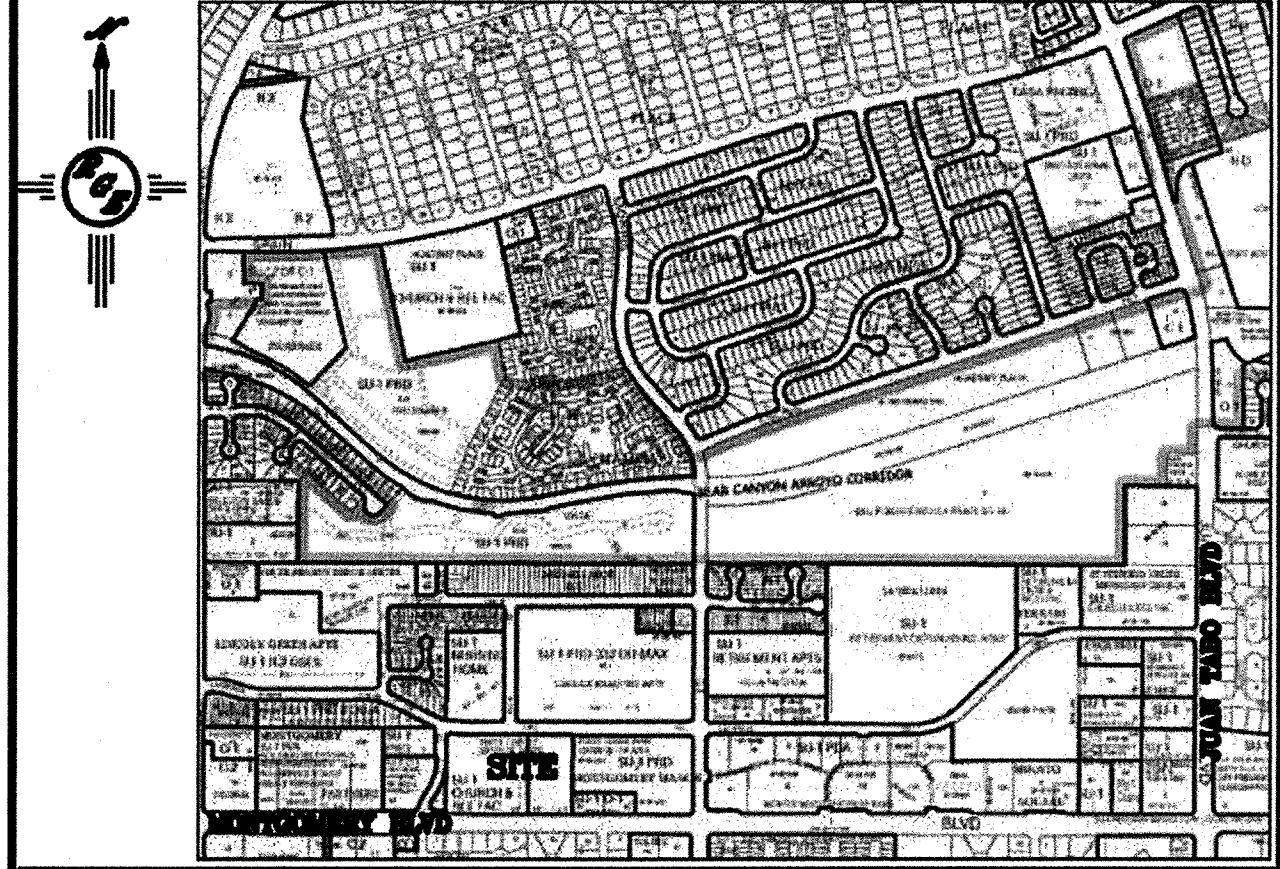
$$\text{First Flush Pond requirement} = 164 \text{ cf}$$

Thus the Pond exceeds the Ponding requirements.





- EROSION CONTROL NOTES:**
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
  2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
  3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
  4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
  5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



**LEGAL DESCRIPTION:**

TRACT A-1, FIRST CHURCH ADDITION  
CITY OF ALBUQUERQUE  
BERNALILLO COUNTY, NEW MEXICO

**NOTES:**

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

- LEGEND**
- XXXX • PROPOSED SPOT ELEVATION
  - 5601— EXISTING CONTOUR
  - 5600— EXISTING INDEX CONTOUR
  - 5601— PROPOSED CONTOUR
  - 5600— PROPOSED INDEX CONTOUR
  - LOT LINE
  - CENTERLINE
  - RIGHT-OF-WAY
  - EXTENDED STEM WALL SEE ARCH PLANS FOR DETAILS
  - PROPOSED ROCK FACE WALL
  - EXISTING CURB AND GUTTER
  - PROPOSED EDGE OF CONCRETE
  - PROPOSED FLOWLINE
  - EXISTING WALL
  - PROPOSED BASIN BOUNDARY
  - PROPOSED BASIN ID

**CAUTION:**  
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

**NOTICE TO CONTRACTORS SO-19 NOTES:**

AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.

ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBIC WORKS CONSTRUCTION, 1985.

TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.

MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

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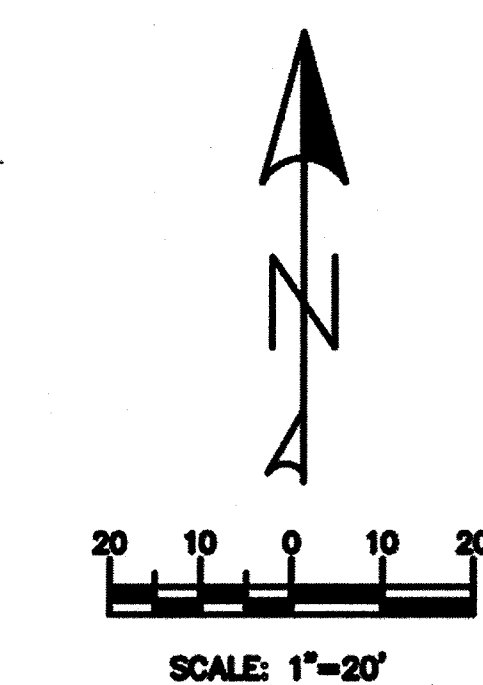
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APPROVAL	NAME:	DATE:
INSPECTOR		



**ENGINEER'S SEAL**

**FIRST CHIRSTAIN CHURCH**

**GRADING & DRAINAGE PLAN**

**CITY OF ALBUQUERQUE**

**DRAWN BY DEM**

**DATE 3-2015**

**SHEET # 4 of 6**

**JOB # 1000X**

**RICHARD H. DOURIE**  
P.E. # 10854