

# CITY OF ALBUQUERQUE

*Planning Department*  
Brennon Williams, Director



*Mayor Timothy M. Keller*

September 25, 2019

Mark Goodwin, P.E.  
Mark Goodwin & Associates  
PO Box 90606  
Albuquerque, NM 87199

**RE: Bosque Plaza – Guardian Storage**  
**3600 La Orilla Rd. NW**  
**Permanent C.O. - Accepted**  
**Engineer's Certification Date: 09/18/19**  
**Engineer's Stamp Date: 02/20/18**  
**Hydrology File: E12D006E**

PO Box 1293

Dear Mr. Goodwin:

Albuquerque

Based on the Certification received 09/20/2019, this certification is approved in support of Permanent Release of Occupancy by Hydrology.

If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov).

NM 87103

Sincerely,

*Renée C. Brissette*

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

Renée C. Brissette, P.E. CFM  
Senior Engineer, Hydrology  
Planning Department



# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

**Project Title:** Bosque Plaza – Guardian Storage Building Permit #: \_\_\_\_\_ Hydrology File #: \_\_\_\_\_

DRB#: 1004167 EPC#: \_\_\_\_\_ Work Order#: \_\_\_\_\_

Legal Description: Lot 1 Bosque Plaza within Section 25

City Address: Bosque Plaza Lane and La Orilla

**Applicant:** Guardian Storage Contact: Paul Hedges

Address: 7501 Holly Ave NE, Albuquerque, NM 87113

Phone#: 450-6385 Fax#: \_\_\_\_\_ E-mail: pdhedges@hotmail.com

**Other Contact:** Mark Goodwin & Associates, PA Contact: Hiram Crook

Address: PO BOX 90606, Albuquerque, NM 87199

Phone#: 828.2200 Fax#: \_\_\_\_\_ E-mail: hiram@goodwinengineers.com

**TYPE OF DEVELOPMENT:** \_\_\_\_\_ PLAT (# of lots) \_\_\_\_\_ RESIDENCE \_\_\_\_\_ DRB SITE X ADMIN SITE

IS THIS A RESUBMITTAL? \_\_\_\_\_ Yes X No

**DEPARTMENT** \_\_\_\_\_ TRANSPORTATION X HYDROLOGY/DRAINAGE

Check all that Apply:

### TYPE OF SUBMITTAL:

- X ENGINEER/ARCHITECT CERTIFICATION
- \_\_\_\_\_ PAD CERTIFICATION
- \_\_\_\_\_ CONCEPTUAL G & D PLAN
- \_\_\_\_\_ GRADING PLAN
- \_\_\_\_\_ DRAINAGE REPORT
- \_\_\_\_\_ DRAINAGE MASTER PLAN
- \_\_\_\_\_ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- \_\_\_\_\_ ELEVATION CERTIFICATE
- \_\_\_\_\_ CLOMR/LOMR
- \_\_\_\_\_ TRAFFIC CIRCULATION LAYOUT (TCL)
- \_\_\_\_\_ TRAFFIC IMPACT STUDY (TIS)
- \_\_\_\_\_ STREET LIGHT LAYOUT
- \_\_\_\_\_ OTHER (SPECIFY) \_\_\_\_\_
- \_\_\_\_\_ PRE-DESIGN MEETING?

### TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- X BUILDING PERMIT APPROVAL
- X CERTIFICATE OF OCCUPANCY
- \_\_\_\_\_ PRELIMINARY PLAT APPROVAL
- \_\_\_\_\_ SITE PLAN FOR SUB'D APPROVAL
- \_\_\_\_\_ SITE PLAN FOR BLDG. PERMIT APPROVAL
- \_\_\_\_\_ FINAL PLAT APPROVAL
- \_\_\_\_\_ SIA/ RELEASE OF FINANCIAL GUARANTEE
- \_\_\_\_\_ FOUNDATION PERMIT APPROVAL
- \_\_\_\_\_ GRADING PERMIT APPROVAL
- \_\_\_\_\_ SO-19 APPROVAL
- \_\_\_\_\_ PAVING PERMIT APPROVAL
- \_\_\_\_\_ GRADING/ PAD CERTIFICATION
- \_\_\_\_\_ WORK ORDER APPROVAL
- \_\_\_\_\_ CLOMR/LOMR
- \_\_\_\_\_ FLOODPLAIN DEVELOPMENT PERMIT
- \_\_\_\_\_ OTHER (SPECIFY) \_\_\_\_\_

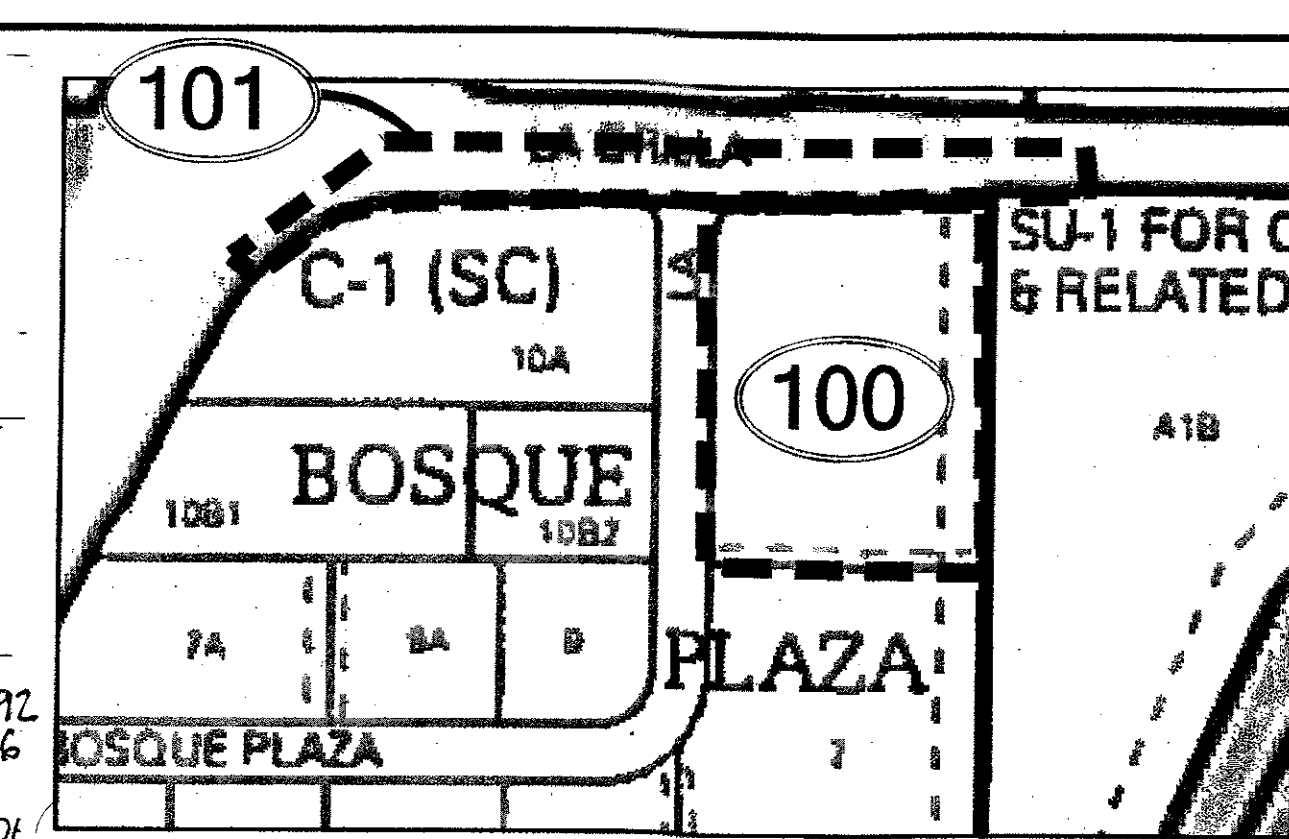
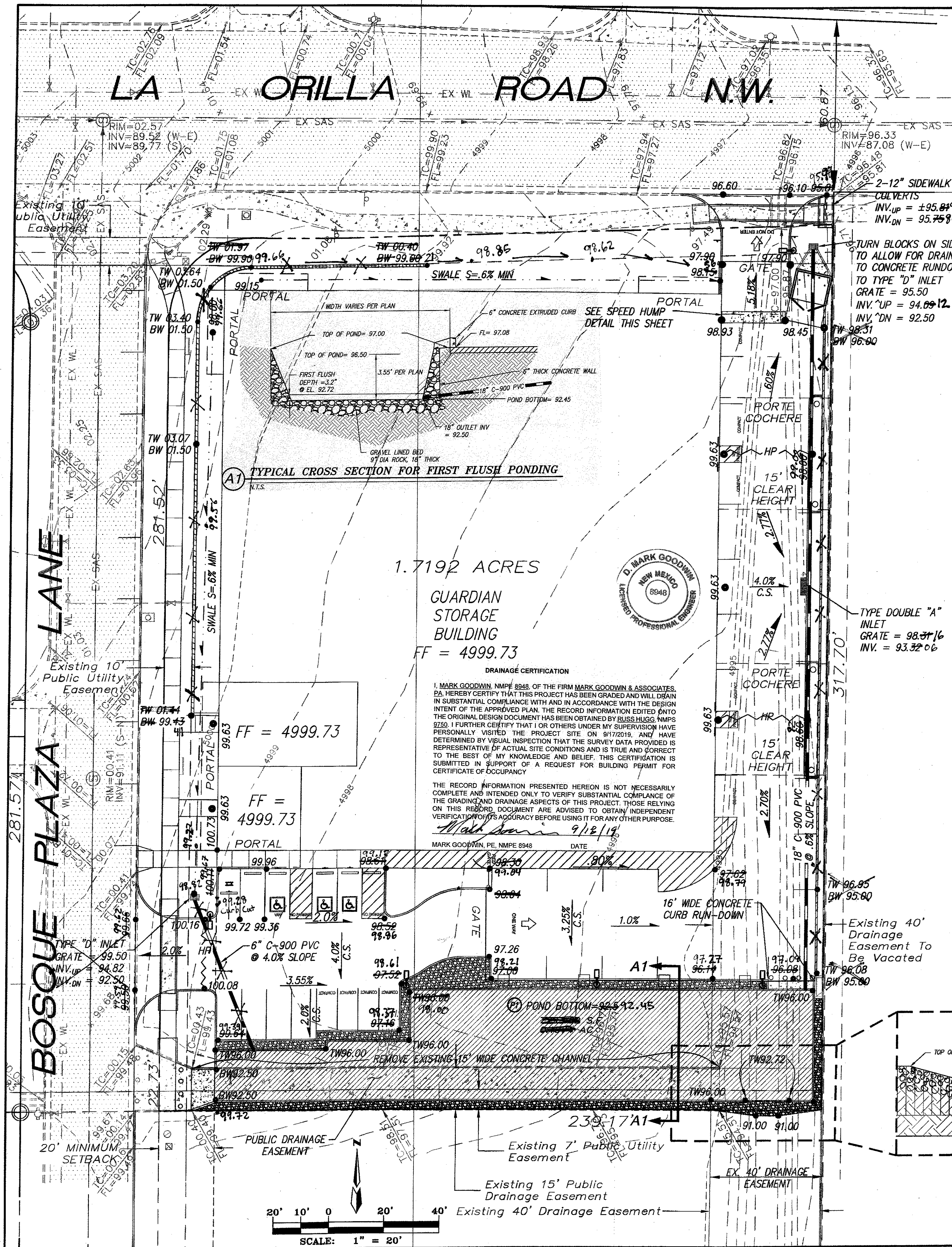
DATE SUBMITTED: September 18, 2019 By: Hiram Crook

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_





#### HYDROLOGY NOTES

THE PROJECT SITE IS BOUNDED BY BOSQUE PLAZA LANE TO THE WEST, LA ORILLA ROAD TO THE NORTH, A DEVELOPED LOT TO THE EAST AND A CONCRETE DRAINAGE CHANNEL TO THE SOUTH. A 2-STORY STORAGE FACILITY IS BEING PROPOSED TO BE CONSTRUCTED ON THE 1.72 ACRE LOT. IT WILL HAVE TWO ACCESS ENTRANCE ROADS: ONE ON THE NORTH AND ONE ON THE WEST SIDE OF THE PROPERTY.

THIS SITE IS PART OF THE MASTER DRAINAGE PLAN FOR BOSQUE PLAZA (BY TIERRA WEST STAMPED 9/25/2002). LOT 1 IS SUBJECT TO ALL RESTRICTIONS, CONDITIONS, AND REQUIREMENTS AS SET FORTH IN "BOSQUE PLAZA DECLARATION OF EASEMENTS, COVENANTS, AND RESTRICTIONS," FILED IN THE OFFICE OF BERNALILLO COUNTY, NEW MEXICO ON THE 28TH DAY OF JULY, 2004 IN BOOK A81, PAGE 5448.

THE SITE IS NOT LOCATED IN A 100YR FLOOD ZONE PER FEMA FIRM MAP 35001C01166, SEPTEMBER 26, 2008.

EXISTING CONDITIONS: THE FLOW PATTERN FOR THIS AREA IS IN A GENERAL EAST TO SOUTHEAST DIRECTION. THE EXISTING CHANNEL ALONG THE SOUTH PROPERTY BOUNDARY WAS DESIGNED TO INTERCEPT RUNOFF FROM THE LOTS AND STREETS TO THE WEST. THIS EXISTING CHANNEL CONVEYS RUNOFF TO AN EXISTING DETENTION POND ALONG THE EASTERN PROPERTY BOUNDARY THAT IS CONTAINED WITHIN A 40' DRAINAGE EASEMENT. RUNOFF FROM THE DETENTION POND SPILLS THROUGH A CONTROLLED OUTFALL STRUCTURE WHERE IT IS THEN PUMPED. THERE ARE TWO EXISTING SIDEWALK CULVERTS ON LA ORILLA ROAD THAT WILL BE RELOCATED ABOUT 20 FEET TO THE EAST SO THEY ARE NOT IN THE MIDDLE OF THE NEW DRIVEWAY ENTRANCE.

PROPOSED DEVELOPED CONDITIONS: THE EXISTING CHANNEL LOCATED ALONG THE SOUTH PROPERTY LINE OF THIS LOT (LOT 1) IS TO BE CONVERTED AND EXPANDED TO REPLACE THE EXISTING PORTION OF THE POND ALONG THE PROJECT SITE'S EAST PROPERTY BOUNDARY.

THE 100 YR PEAK DISCHARGE FROM THE SITE IS 6.67 cfs. THE SITE WILL ALSO ACCEPT OFFSITE FLOWS (SB 101-2.93 cfs) FROM THE SOUTHERN PORTION OF LA ORILLA RD THAT ENTER THROUGH THE TWO EXISTING SIDEWALK CULVERTS.

THE HYDROLOGY WAS CALCULATED PER COA DPM USING ARHYMO  $P_{max}=2.49"$  FROM NOAA 14. THE RESULTS ARE SUMMARIZED IN THE HYDROLOGY TABLE ON THIS SHEET.

DRAINAGE FROM THE BUILDING WILL RUNOFF TOWARDS THE EAST TO THE ROAD AND THEN TO EITHER A SUMP INLET OR TOWARDS THE 16 FOOT WIDE RUNDOWN LOCATED AT THE NE CORNER OF THE POND AREA. THE TWO SUMP INLETS WILL BE CONNECTED TO THE POND THROUGH AN 18" STORM PIPE. THE RUNDOWN WILL BE PROTECTED BY BOLLARDS. THE POND WILL HAVE A MAXIMUM DEPTH OF 3.5 FEET.

THE DETENTION POND DESIGN VOLUME FOR THE EXISTING POND WAS 1.50 AC-FT. THE CALCULATED VOLUME OF THE EXISTING POND LOCATED ON LOT 1 AS DETERMINED BY RECENT SURVEY INFORMATION IS 0.43 AC-FT. THE PROPOSED POND WILL HAVE A DESIGN VOLUME OF 0.59 AC-FT. THIS WILL ALLOW FOR A SMALL FACTOR OF SAFETY.

WITHIN THE DETENTION POND THE WATER WILL BE RELEASED TO THE EXISTING ADJACENT CHANNEL SOUTH OF THE SITE IN THE 40' EASEMENT AND RELEASED BY THE EXISTING LIFT STATION FURTHER DOWNSTREAM.

#### BASIN DATA

BASIN ID	% D	% C	AREA	Q(100)	VOLUME
100	76.5	23.5	1.54 AC.	6.67 cfs	.2781 AC-FT
101	88	12	0.6643 AC.	2.93 cfs	.1097 AC-FT

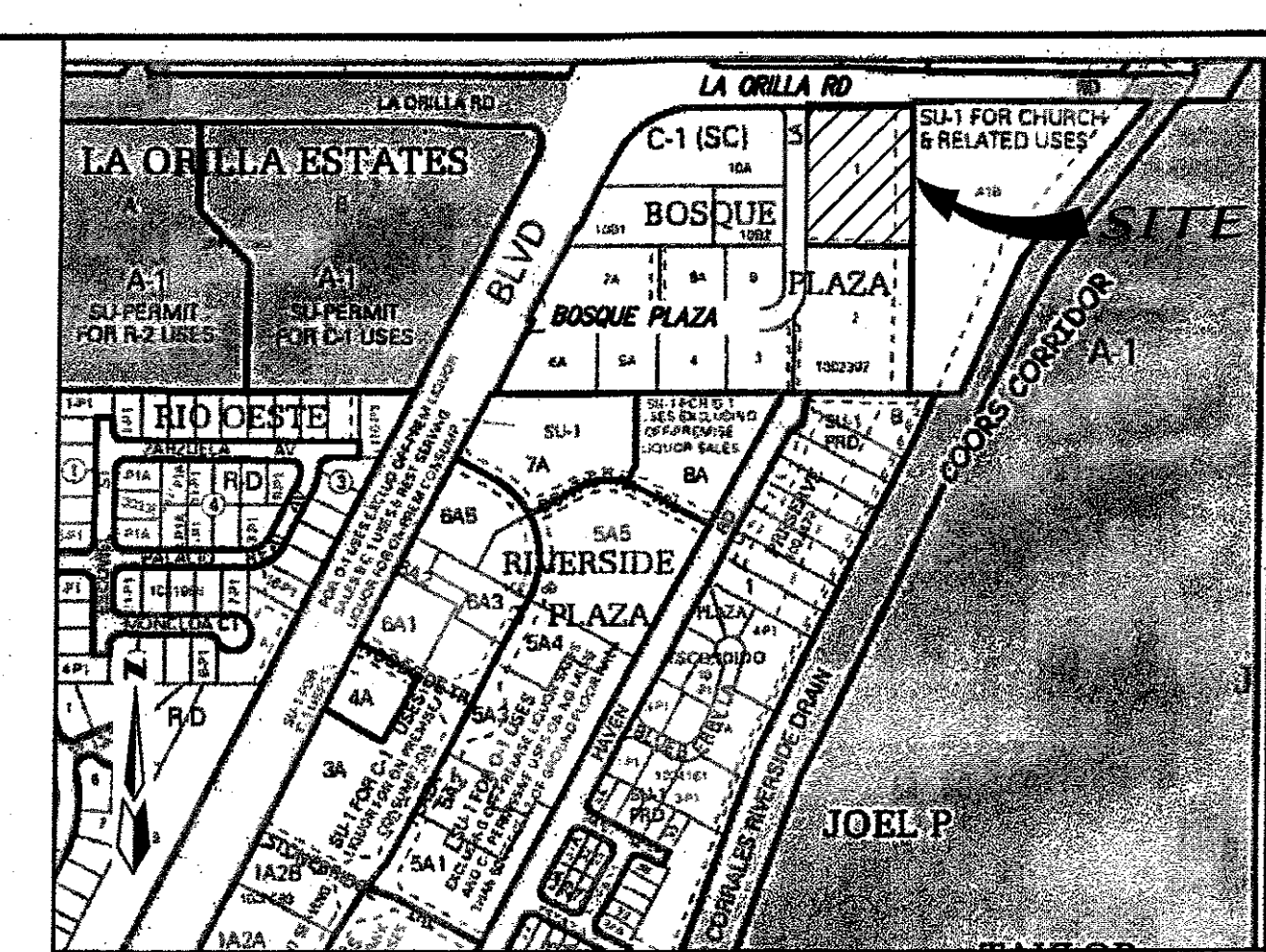
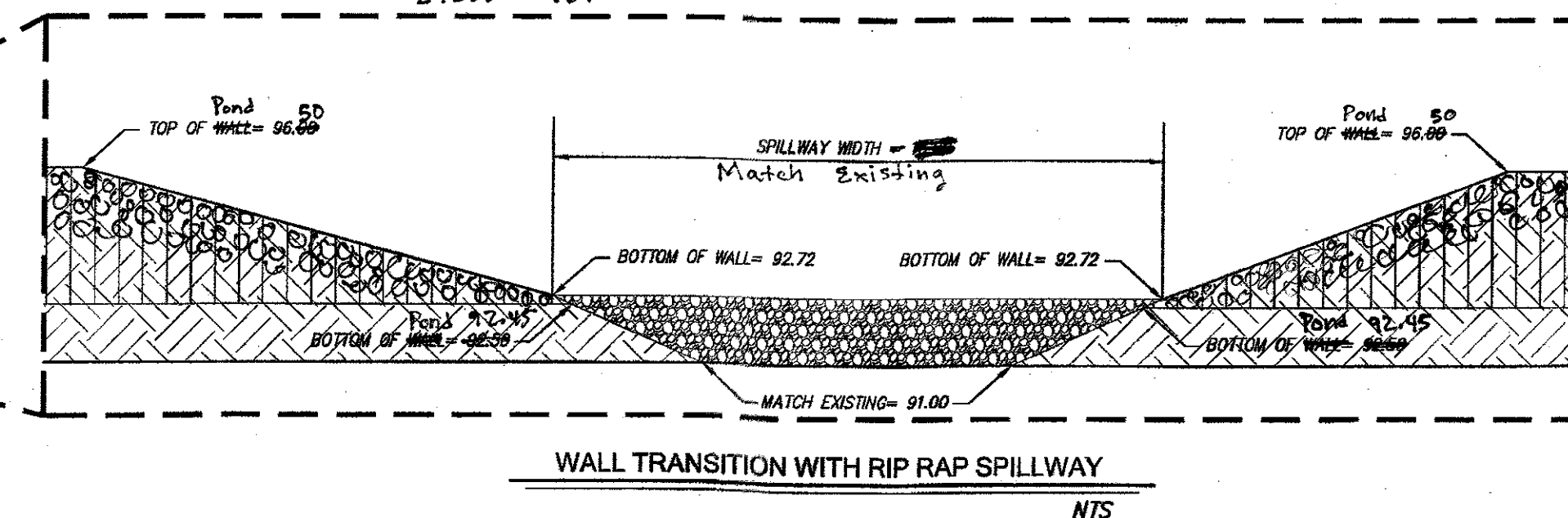
THE INTENT OF THIS PLAN IS TO PROVIDE COMPLETE DETENTION OF THE DEVELOPED, 100 YEAR, 24 HR. STORM.

#### FIRST FLUSH

THE "FIRST FLUSH" IS BEING ACCOMPLISHED THROUGH THE DETENTION POND ON SITE.

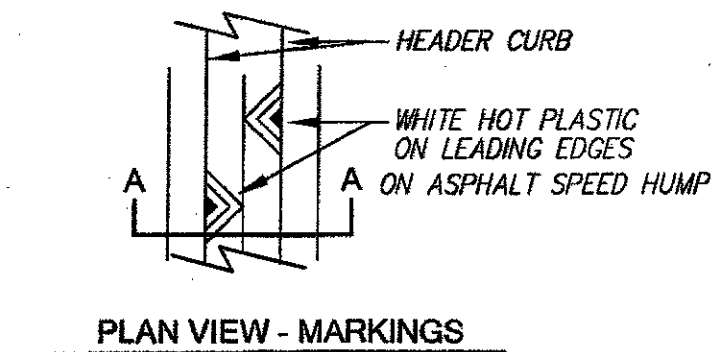
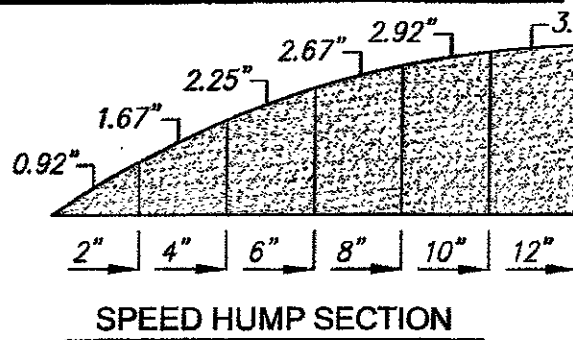
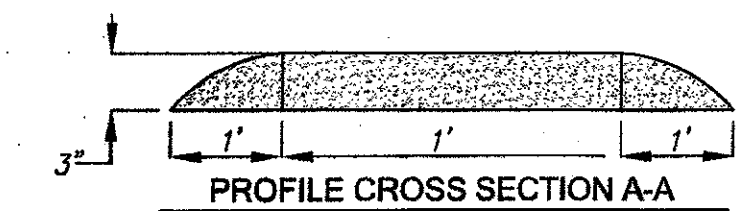
REQUIRED VOLUME =  $0.34' \times$  IMPERVIOUS AREA  
 $= 0.34' \times 12 \times (57316 \text{ SF})$   
 $= 1824 \text{ CF}$   
 $= .04 \text{ AC-FT}$

① DEPTH = 3.5' (SEE DETAIL) POND BOTTOM = 92.45  
 AREA = 7294 SF  
 VOLUME = 25529 CF = .59 AC-FT



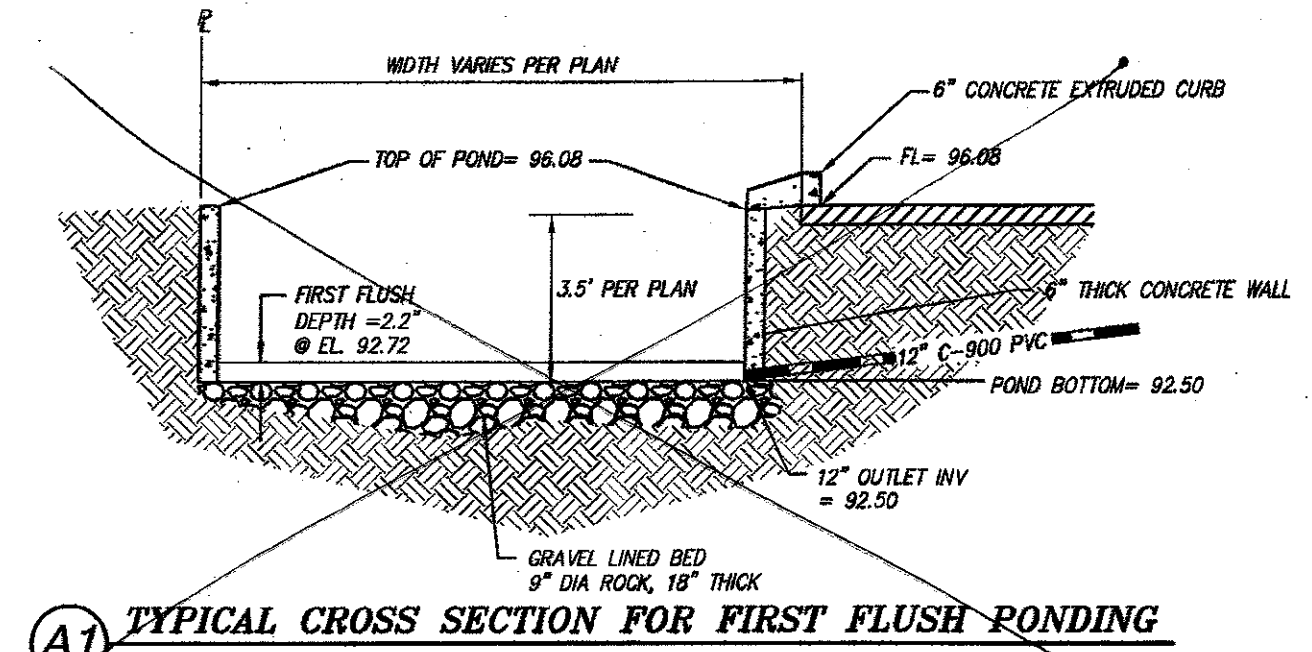
#### LEGAL DESCRIPTION

Lot 1 Bosque Plaza within the Section 25, Township 11 North, Range 2 East, N.M.P.M., City of Albuquerque, Bernalillo County, New Mexico.



#### SPEED HUMP DETAILS

NTS



MARK GOODWIN & ASSOCIATES, P.A.  
 CONSULTING ENGINEERS  
 P.O. BOX 90606  
 ALBUQUERQUE, NEW MEXICO 87199  
 OFFICE (505) 828-2200, FAX (505) 797-9530

**CITY OF ALBUQUERQUE**  
**PLANNING DEPARTMENT**

**GUARDIAN STORAGE**  
**GRADING & DRAINAGE PLAN**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	FILE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO. ZONE MAP NO. SHEET 2 OF 4

FOR INFORMATION ONLY