

# CITY OF ALBUQUERQUE

Planning Department  
Brennon Williams, Director



Mayor Timothy M. Keller

October 22, 2020

Reza Afaghpor, P.E.  
SBS Construction and Engineering, LLC  
10209 Snowflake Ct. NW  
Albuquerque, NM 87114

**RE: 2912 William St. SE**  
**Grading & Drainage Plan**  
**Engineer's Stamp Date: 09/30/20**  
**Hydrology File: M14D036**

Dear Mr. Afaghpor:

Based upon the information provided in your submittal received 10/05/20, the Grading and Drainage Plan is approved for Building Permit and Grading Permit.

Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter and the pad certification approval letter. Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

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

Sincerely,

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

PO Box 1293

Albuquerque

NM 87103

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



# City of Albuquerque

Planning Department  
Development & Building Services Division

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

**Project Title:** 2912 WILLIAM ST., SE Building Permit #: BP2020-29583 Hydrology File #: \_\_\_\_\_

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

Legal Description: TRACT 69, MRGCD MAP 44

City Address: 2912 WILLOIAM STREET, SE, ALBUQUERQUE, NM 87104

**Applicant:** SBS CONSTRUCTION AND ENGINEERING, LLC Contact: SHAWN BIAZAR

Address: 10209 SNOWFLAKE CT., NW, ALBUQUERQUE, NM 87114

Phone#: (505) 804-5013 Fax#: (505) 897-4996 E-mail: AECLLC@AOL.COM

**Other Contact:** \_\_\_\_\_ Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone#: \_\_\_\_\_ Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

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

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

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

Check all that Apply:

### TYPE OF SUBMITTAL:

- ☐ 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:

- ☒ BUILDING PERMIT APPROVAL
- ☐ 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: 10-5-2020 By: SHAWN BIAZAR

COA STAFF:

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

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

**Location**  
Tract 69, MRGCD #44, is located at 2912 William Street, SE, containing 0.3964 acre. See attached portion of Vicinity Map M-14-Z for exact location.

**Purpose**  
The purpose of this drainage report is to present a grading and drainage solution for new addition to the existing and improvement for Tract 69, MRGCD #44.

**Existing Drainage Conditions**  
This lot is very flat and drains west into William Street, SE and no other offsite flows enters this site. There are existing block walls all the way around this tract. There is existing +/-1400 SF house on this property plus two existing driveway. There is also an Irrigation ditch on the east of this property which is blocked off with a garden wall.

**Proposed Conditions and On-Site Drainage Management Plan**  
There are existing block walls all three sides of this lot. We are proposing to retain all the developed flow minus the historical flow. The total volume requirement under this condition is 1,514.49 CF. We are proposing three ponds with total volume provided of 1,865.64 CF which includes the first flush volume requirement of 177.14 CF.

**VOLUME CALCULATIONS FOR 10 DAY STORM**  
(UNDER EXISTING CONDITIONS)

BASIN	AREA (SF)	AREA (AC)	AREA (MI <sup>2</sup> )
ON-SITE	17,267.00	0.3964	0.000619

$E = EA(AA) + EB(AB) + EC(AC) + ED(AD)$   
 $AA + AB + AC + AD$

$V-360 = E(AA + AB + AC + AD)$

EA = 0.35  
EB = 0.78  
EC = 1.13  
ED = 2.12

AA = 91.00%  
AB = 0.00%  
AC = 0.00%  
AD = 9.00%

P-60 = 2.01  
P-360 = 2.35  
P-1440 = 2.75  
P-10 Day = 3.95

E = 0.6731 IN  
V-360 = 0.0222 AC-FT  
AD = 0.0357 AC  
V-10 DAY = 0.0270 AC-FT  
V-10 DAY = 1,175.74 CF

$V \text{ (REQUIRED)} = 2,690.63 - 1,175.74 = 1,514.89 \text{ CF}$

**PONDING VOLUME REQUIREMENTS (90TH PERCENTILE/FIRST FLUSH)**

VOLUME REQUIRED = 0.34 INCHES x IMPERVIOUS AREA =  
(0.34/12 x 6,252.15) = 177.14 CF

**PONDING VOLUME CALCULATION**

TOTAL POND AREA PROVIDED =  
PONDING CALCULATIONS:

POND A:  
AREA @ ELEV. 41.15 = 2553.39 SF  
AREA @ ELEV. 40.15 = 1056.65 SF  
POND VOLUME=(2553.39+1056.65)/2\*1.00=1805.02 CF

POND B:  
AREA @ ELEV. 41.25 = 186.36 SF  
AREA @ ELEV. 40.75 = 56.11 SF  
POND VOLUME=(186.36+56.11)/2\*0.50=60.62 CF

TOTAL PONDING VOLUME PROVIDED =  
1805.02 + 60.55 = 1,865.64 CF

**VOLUME CALCULATIONS FOR 10 DAY STORM**  
(UNDER PROPOSED CONDITIONS)

BASIN	AREA (SF)	AREA (AC)	AREA (MI <sup>2</sup> )
ON-SITE	18,863.32	0.4285	0.000669

$E = EA(AA) + EB(AB) + EC(AC) + ED(AD)$   
 $AA + AB + AC + AD$

$V-360 = E(AA + AB + AC + AD)$

EA = 0.35  
EB = 0.78  
EC = 1.13  
ED = 2.12

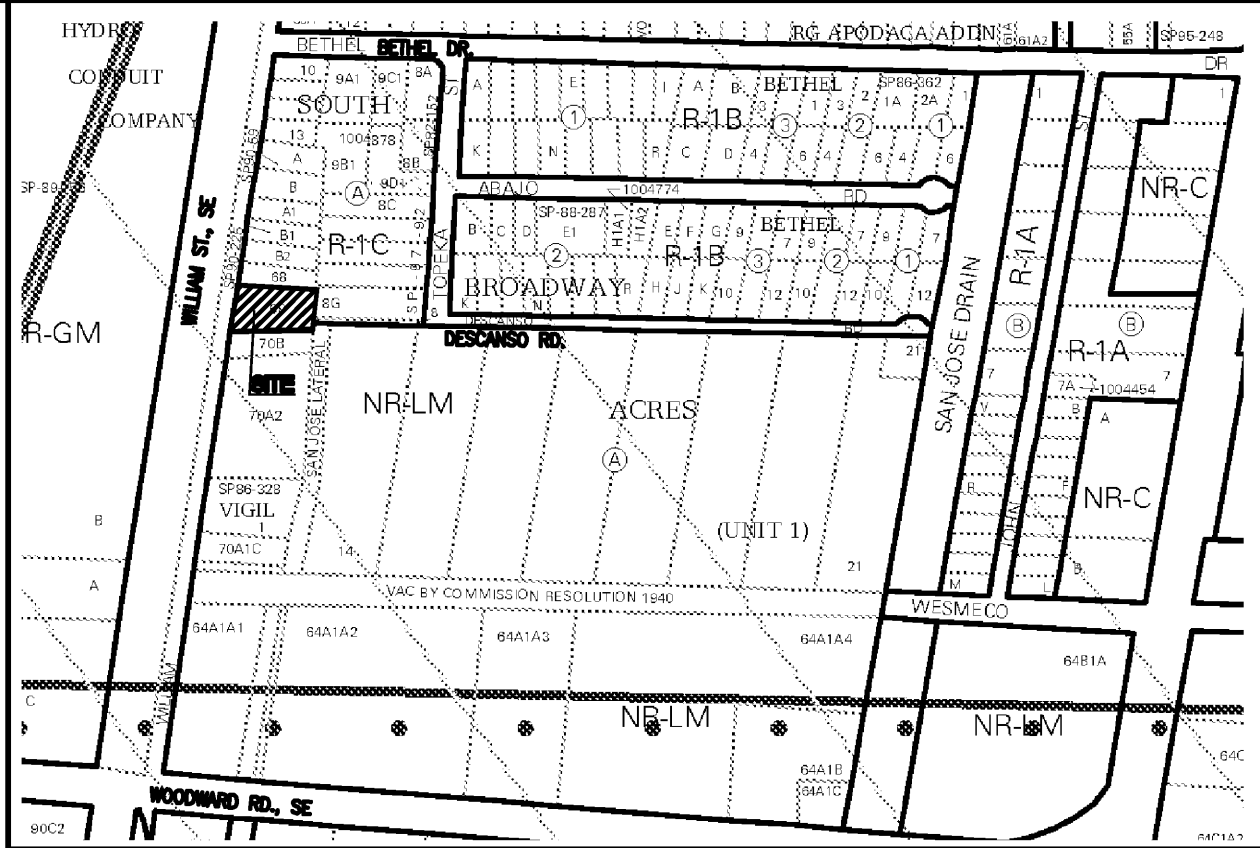
AA = 0.00%  
AB = 55.00%  
AC = 9.00%  
AD = 36.00%

P-60 = 2.01  
P-360 = 2.35  
P-1440 = 2.75  
P-10 Day = 3.95

E = 1.2939 IN  
V-360 = 0.0427 AC-FT  
AD = 0.1427 AC  
V-10 DAY = 0.0618 AC-FT  
V-10 DAY = 2,690.63 CF

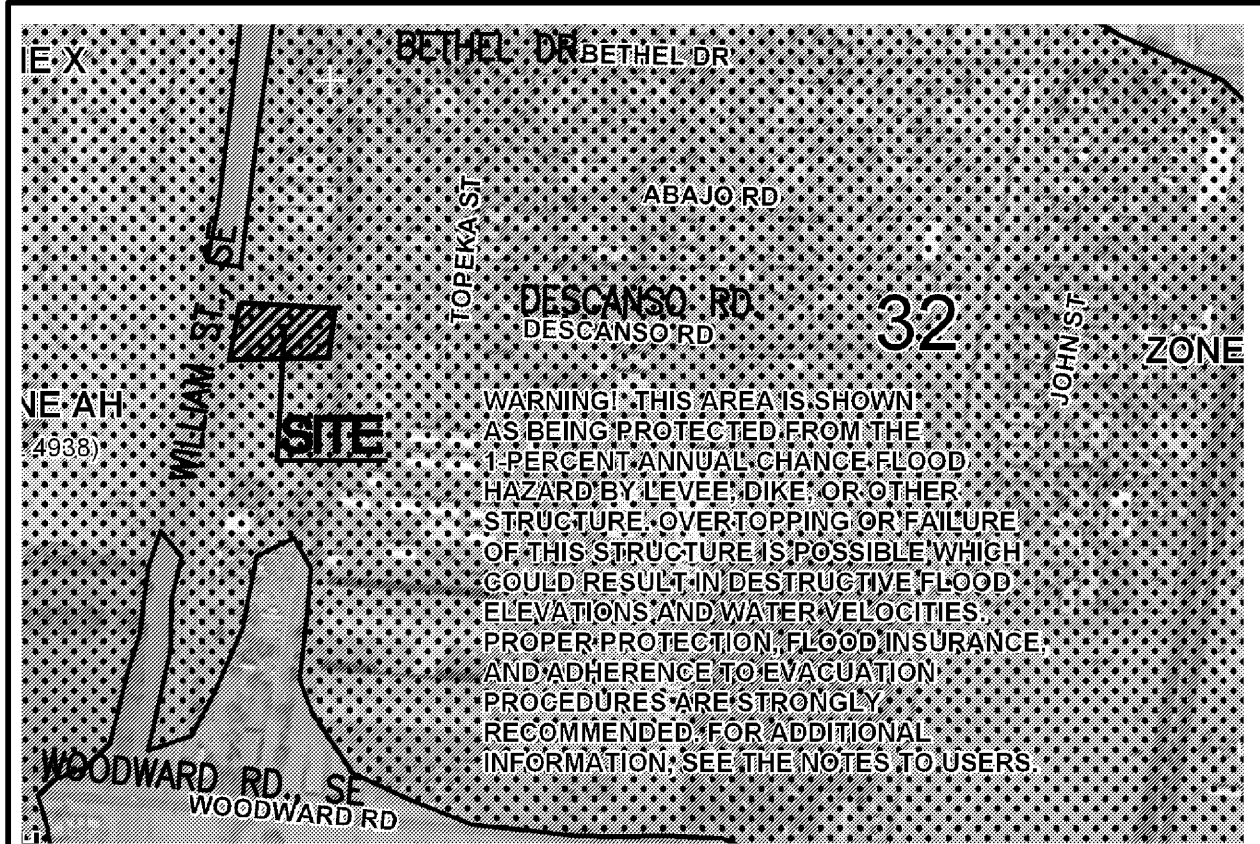
**GENERAL NOTES:**

- 1: CONTOUR INTERVAL IS HALF (1.00) FOOT.
- 2: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION SMW\_3, HAVING AN ELEVATION OF 4943.025 FEET ABOVE SEA LEVEL.
- 3: UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/OR DEPTH PRIOR TO EXCAVATION OR DESIGN CON-SIDERATIONS.
- 4: THIS IS NOT A BOUNDARY SURVEY, BEARINGS ARE ASSUMED, DISTANCES AND FOUND PROPERTY CORNERS ARE FOR INFORMATIONAL PURPOSES ONLY.
- 5: SLOPES ARE AT 3:1 MAXIMUM.
- 6: ADD 4900 TO ALL PROPOSED SPOT ELEVATIONS.



VICINITY MAP:

M-14-Z



FIRM MAP:

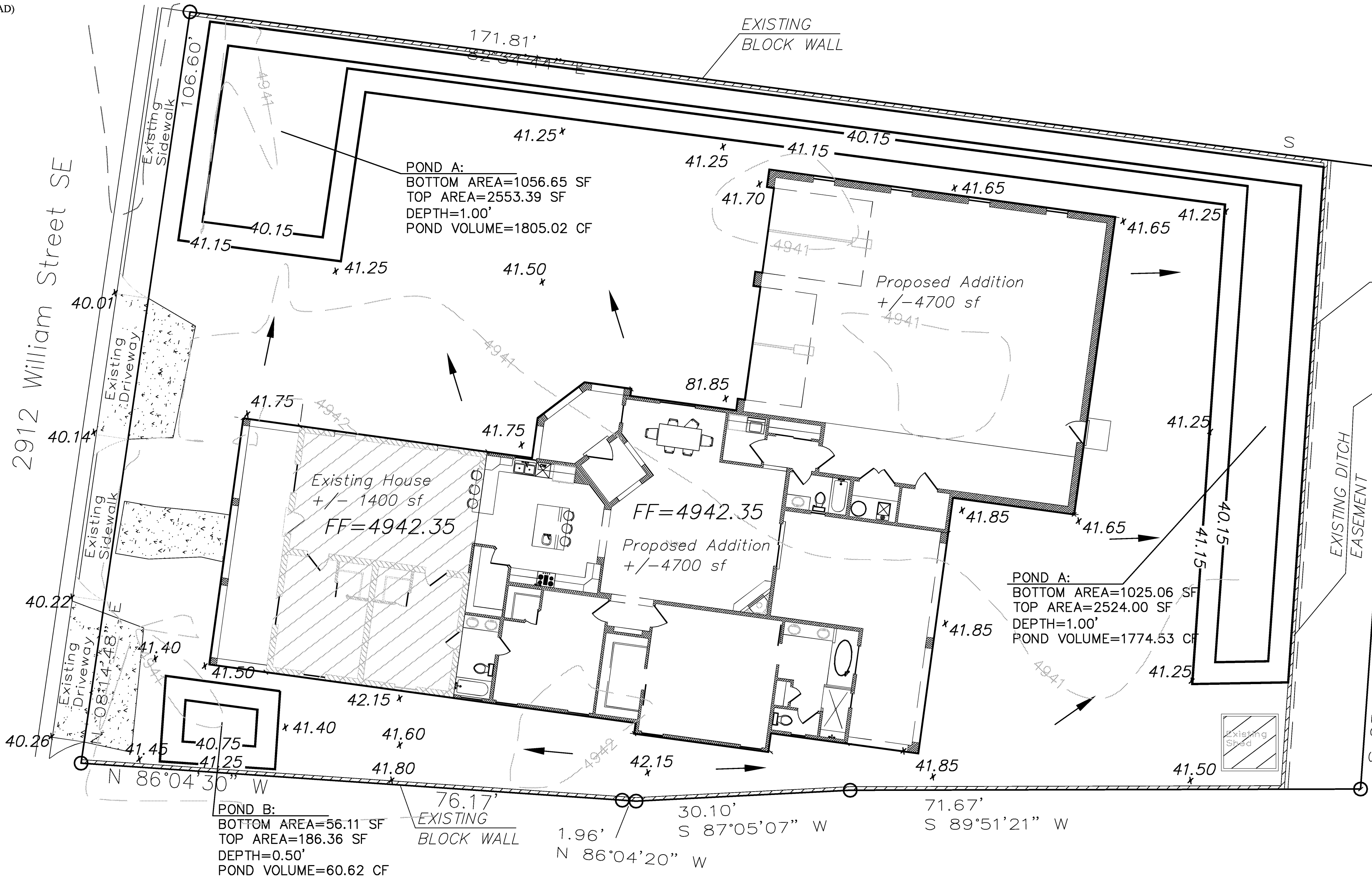
3FM5001C0342G

**LEGAL DESCRIPTION:**  
Tract 69, MRGCD #44

ADDRESS: 2912 WILLIAM STREET, SE

**LEGEND**

- 5030--- EXISTING CONTOUR (MAJOR)
- 5029--- EXISTING CONTOUR (MINOR)
- BOUNDARY LINE
- x 42.70 PROPOSED SPOT ELEVATION
- x 5029.16 EXISTING GRADE
- x 5075.65 EXISTING FLOWLINE ELEVATION
- FL
- PROPOSED RETAINING WALL
- BC=41.30 BOTTOM OF CHANEL
- TF=42.00 TOP OF FOOTING
- TRW=45.12 TOP OF RETAINING WALL
- HP HIGH POINT
- 42.40 AS-BUILT GRADES
- 69.77 AS-BUILT SPOT ELEVATIONS
- FF=5142.30
- FP=5142.25



GRAPHIC SCALE



SCALE: 1"=10'



REZA AFAGHPOUR  
P.E. #11814

**SBS CONSTRUCTION  
AND ENGINEERING, LLC**

10209 SNOWFLAKE CT., NW  
ALBUQUERQUE, NEW MEXICO 87114  
(505)899-5570

2912 WILLIAM STREET, SE  
GRADING PLAN

DRAWING:	DRAWN BY:	DATE:	SHEET #
201803-GD.DWG	SH-B	3-6-2018	1

LAST REVISION: 2-2-2018