

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

November 28, 2022

Reza Afaghpour, PE  
SBS Construction and Engineering, LLC  
10209 Snowflake Ct NW  
Albuquerque, NM 87114

RE: **Lot 15 Block 5 Volcano Cliffs Unit 18 SAD 228**  
**6636 Sujeto Rd. NW.**  
**Grading and Drainage Plan**  
**Engineers Stamp Date 4/25/2021 (D10D003K15)**  
**CO Certification Date: 8/19/2022**

Mr. Afaghpour,

Based upon the information provided in your submittal received 8/24/2022, this plan is for Certificate of Occupancy.

If you should have any questions please contact me at 505-924-3695 or Rudy E. Rael at 505-924-3977

Sincerely,

Tiequan Chen, P.E. CFM  
Principal Engineer, Hydrology  
Planning Department, Development Review Services

RR/TC  
File D10D003K15

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:** 6636 SUJETO ROAD., NW **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** D10D003K15  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** LOT 18, BLOCK 38, VOLCANO CLIFF, UNIT 18  
**City Address:** 6636 SUJETO ROAD, NW

**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:** 11-20-2022 **By:** SHAWN BIAZAR

COA STAFF:

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

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

**Location**  
Lot 15, Block 5, Volcano Cliffs Subdivision, Unit 18 is located at 6636 Sujeto Rd., NW containing 0.6910 acre. See attached portion of Vicinity Map E-10-Z for exact location.

**Purpose**  
The purpose of this drainage report is to present a grading and drainage solution for new pool/spa for the existing house on Lot 15.

**Existing Drainage Conditions**  
This site falls within Master Drainage Plan for SAD 228. This lot drains north. No offsite runoff enters this site. There are existing block walls along west and east. The house was built recently with Drainage # D10D00K15.

**Proposed Conditions and On-Site Drainage Management Plan**  
The new pool/spa addition is about 1400 SF and it will not change any drainage pattern. The site still drains to the ponds provided then to the north per master drainage plan. The ponds still are big enough for the additional volume for water harvesting generated by this addition.

**FLOW, 1ST FLUSH, 100 YR/10-DAY VOLUME CALCULATIONS**

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

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

$Q-360 = QA(AA) + QB(AB) + QC(AC) + QD(AD)$

$V-10 \text{ Day} = V-360 + AD(P-10 \text{ Day} - P-360) / 12 \text{ in/ft}$

$EA = 0.44 QA + 1.29 EB + 0.67 QB + 2.03 EC + 0.99 QC + 2.87 ED + 1.97 QD = 4.37$

**DRAINAGE BASIN:**

LOT 15 AREA = 30,097.89 (SF) = 0.6910 (AC)

**LAND TREATMENT:**

ALLOWABLE PER SAD 228      ROPOSED LOT 15

AA = 0.00%      0.00%  
AB = 10.00%      30.00%  
AC = 40.00%      35.00%  
AD = 50.00%      35.00%

														100 YEAR, 6-HR.		
BASIN	AREA (SF)	AREA (AC)	Treatment A		Treatment B		Treatment C		Treatment D		Weighted (ac-ft)	Volume (ac-ft)	Flow cfs			
			%	(acre)	%	(acre)	%	(acre)	%	(acre)						
ALLOWED	30,097.89	0.6910	0%	0.00	10%	0.0691	40%	0.2764	50%	0.3455	1.4480	0.083	2.44			
PROPOSED	30,097.89	0.6910	0%	0.00	30%	0.2073	35%	0.2419	35%	0.2419	1.237	0.0712	2.17			

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

VOLUME REQUIRED = 0.34 INCHES x IMPERVIOUS AREA =  
(0.42/12 x 9,300.00) = 325.50 CF

**PONDING VOLUME CALCULATION**

TOTAL POND AREA PROVIDED =  
PONDING CALCULATIONS:

POND A:  
AREA @ ELEV. 28.25 = 564.33 SF  
AREA @ ELEV. 27.50 = 395.55 SF  
POND VOLUME=(546.33+395.55)/2\*0.75=359.94 CF

POND B:  
AREA @ ELEV. 29.25 = 188.37 SF  
AREA @ ELEV. 28.50 = 57.00 SF  
POND VOLUME=(188.37+57.00)/2\*0.75=92.01 CF

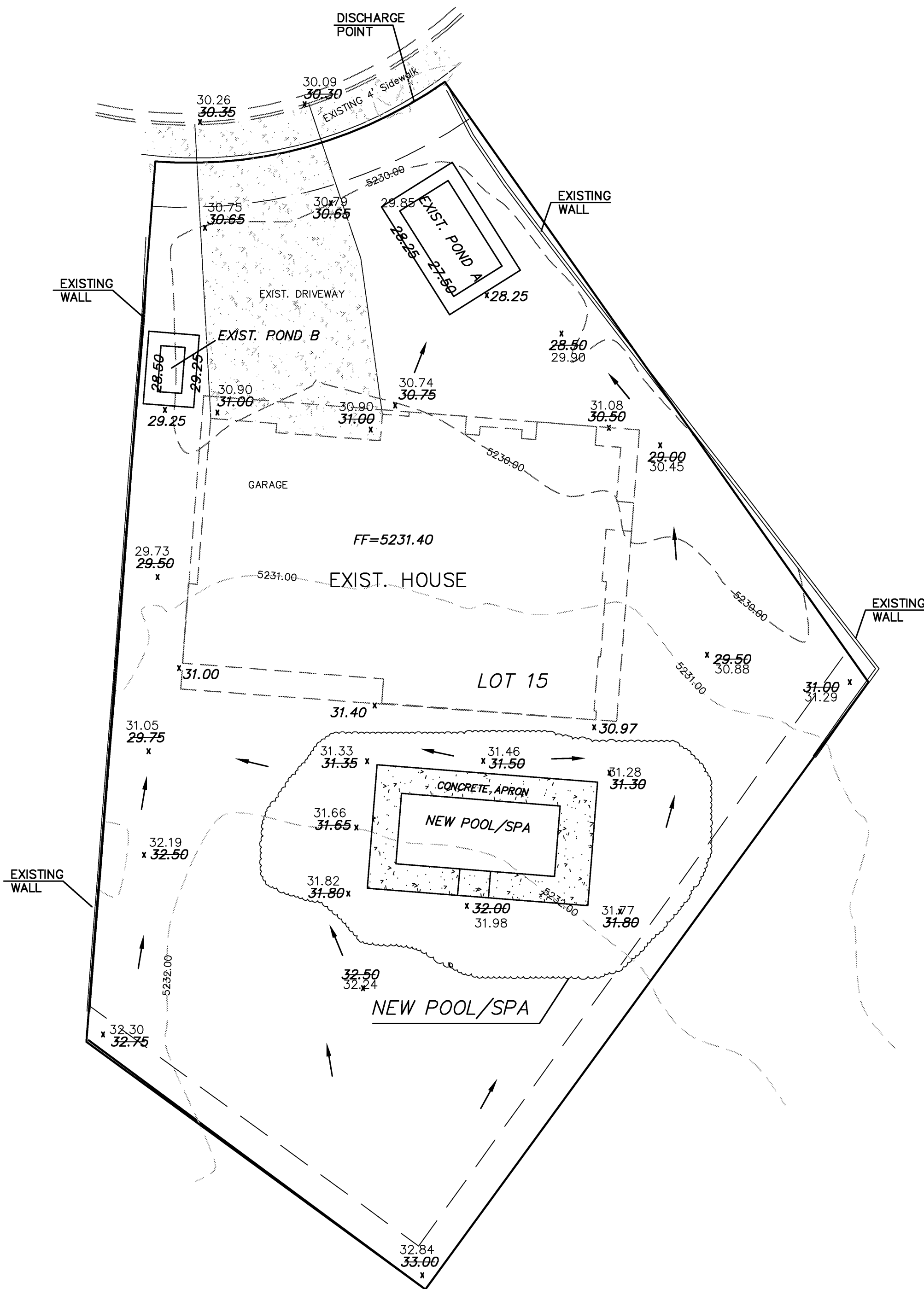
TOTAL PONDING VOLUME PROVIDED = 451.96 CF

**DRAINAGE CERTIFICATION**

I, REZA AFAGHPOUR, NMPE 11814, OF SBS CONSTRUCTION AND ENGINEERING, LLC., HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 04-25-2021. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY NMPS 9801 LEONARD MARTINEZ, OF SBS CONSTRUCTION AND ENGINEERING. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR FINAL CERTIFICATE OF OCCUPANCY (POOL ONLY).

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

REZA AFAGHPOUR, NMPE 11814  
DATE 8/19/2022

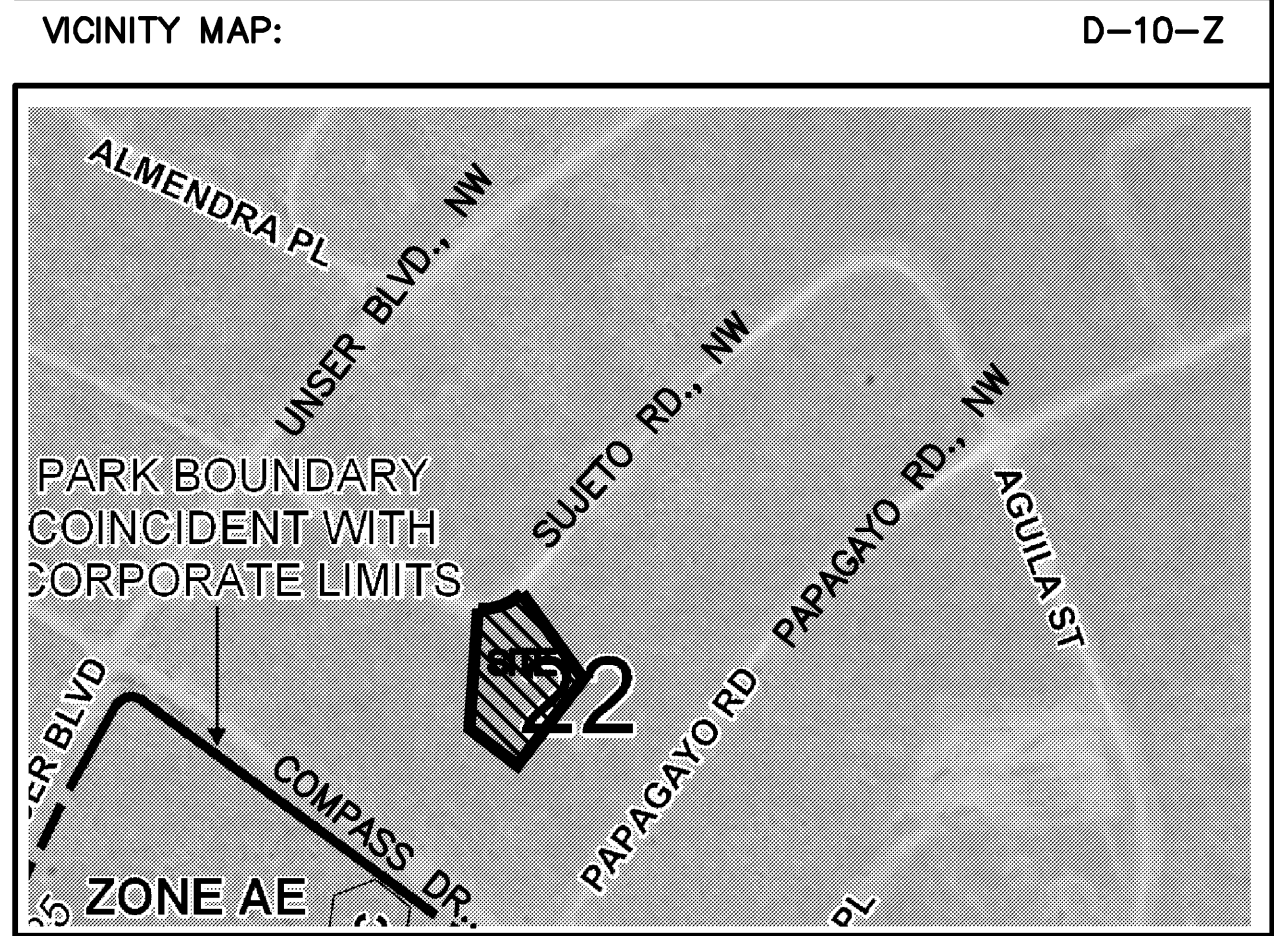
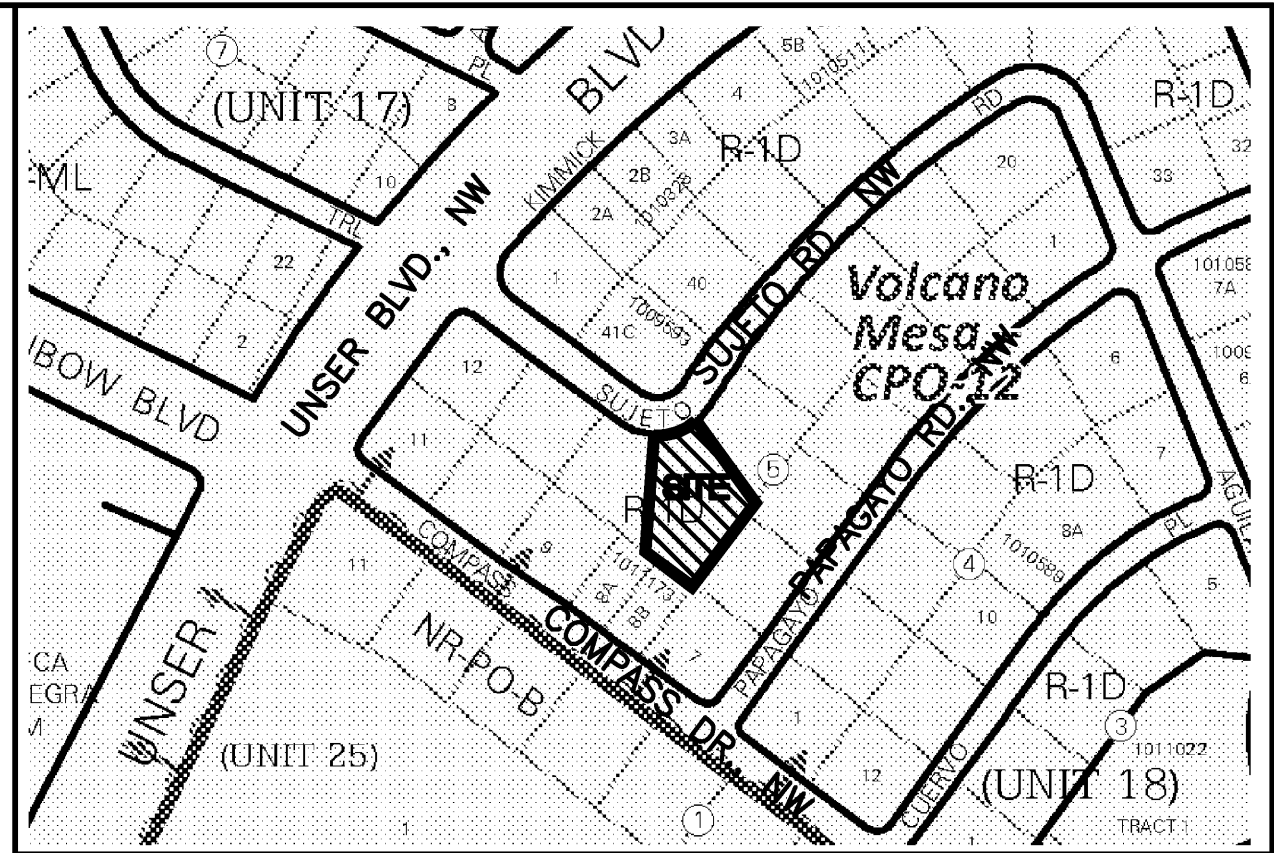


- NOTICE TO CONTRACTORS**
1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
  2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
  3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL FOR LOCATING SERVICE, 280-1990 OR "811", FOR LOCATION OF EXISTING UTILITIES.
  4. 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.
  5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
  6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
  7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

- GENERAL NOTES:**
1. CONTOUR INTERVAL IS HALF (1.00) FOOT.
  2. ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION CAL\_SAT\_A, HAVING AN ELEVATION OF 5329.531 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 CONSIDERATIONS.
  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 5300 TO ALL PROPOSED SPOT ELEVATIONS.

**EROSION CONTROL PLAN AND POLLUTION PREVENTION NOTES**

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL STORM RUNOFF ON SITE.
4. REPAIR OF DAMAGED FACILITIES AND CLEAN-UP OF SEDIMENT ACCUMULATION 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.

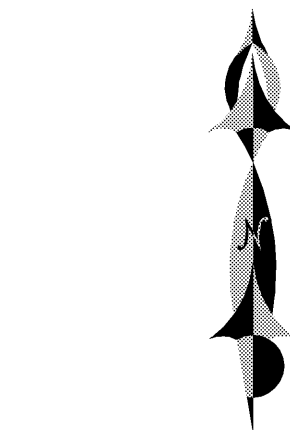


**LEGAL DESCRIPTION:**  
Lots 15, Block 5, Volcano Cliffs Subdivision, Unit 18

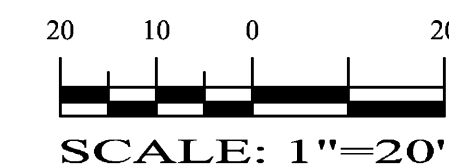
ADDRESS: 6636 SUJETO RD., NW

**LEGEND**

- EXISTING CONTOUR (MAJOR)
- EXISTING CONTOUR (MINOR)
- BOUNDARY LINE
- PROPOSED SPOT ELEVATION
- EXISTING GRADE
- EXISTING FLOWLINE ELEVATION
- PROPOSED RETAINING WALL
- BOTTOM OF CHANEL
- TOP OF FOOTING
- TOP OF RETAINING WALL
- HIGH POINT
- AS-BUILT GRADES
- AS-BUILT SPOT ELEVATIONS



GRAPHIC SCALE



SCALE: 1"=20'



REZA AFAGHPOUR  
P.E. #11814

**SBS CONSTRUCTION AND ENGINEERING, LLC**

10209 SNOWFLAKE CT., NW  
ALBUQUERQUE, NEW MEXICO 87114  
(505)804-5013

Lots 15, Block 5, Volcano Cliffs Subdivision, Unit 18  
6636 Sujeto Road, NW, POOL/SPA ADDITION  
GRADING PLAN

DRAWING:	DRAWN BY:	DATE:	SHEET #
201912-GD.DWG	SH-B	4-28-19	1