

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

December 28, 2022

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

RE: **Lot 15 Block 5 Volcano Cliffs Unit 18 SAD 228**  
**7808 Compass Dr. NW**  
**Grading and Drainage Plan**  
**Engineers Stamp Date Rev. 12/16/2022 (D10D003G36)**

Mr. Afaghpour,

PO Box 1293

Based upon the information provided in your submittal received 12/26/2022, this plan is approved for revised grading plan.

Albuquerque

Hydrology inspection is required before final CO is granted.

NM 87103

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

Sincerely,

www.cabq.gov

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

RR/TC  
File: D10D003G36



# City of Albuquerque

Planning Department  
Development & Building Services Division

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

**Project Title:** 7808 COMPASS DR., NW **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** D10D003G36  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** LOT 36, BLOCK 2, VOLCANO CLIFFS UNIT 19  
**City Address:** 7808 COMPASS DR., NW

**Applicant:** SBS CONSTRUCTION AND ENGINEERING, LLC **Contact:** SHAWN BIAZAR  
**Address:** 7632 William Moyers Avenue, NE, 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:** 12-19-2022 **By:** SHAWN BIAZAR

COA STAFF:

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

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

Location

This project is located at 7808 Compass Dr., NW. NW and contains 0.3565 acre. See attached portion of Vicinity Map D-10-Z for exact location.

Purpose

The purpose of this drainage report is to present a grading and drainage solution for the new pool on this lot.

Existing Drainage Conditions

This project falls within SAD 228 master drainge plan. This site specifically falls within drainage Basin 201. This lot drains from north to south. No offsite runoff enters this site. There are existing ponds on this site with a pump that was installed previously.

Proposed Conditions and On-Site Drainage Management Plan

The drainage patterns will remain the same. The entire runoff from the site will be retain on site along the south property line. The allowable discharge volume based on the 100-year/24-hour volume is 2,003.37 cf and 100-year/24-hour volume under the proposed conditins is 2,081.67 cf. Therefore, the required ponding volume is 78.30 cf. But the first flush volume ponding requirement is 244.60 cf which exceeds the 78.30 cf. The actual ponding volume provided is 1,351.73 cf.

VOLUME CALCULATIONS

BASIN	AREA (SF)	AREA (AC)	AREA (MT <sup>2</sup> )
ON-SITE	15,530.00	0.3565	0.000557

$$E = \frac{EA(AA) + EB(AB) + EC(AC) + ED(AD)}{AA + AB + AC + AD}$$

$$V-360 = E (AA + AB + AC + AD)/12$$

$$V-24HR \text{ HOUR} = V-360 + AD (P-1440 - P-360) / 12$$

EA = 0.55  
EB = 0.73  
EC = 0.95  
ED = 2.24

P-60 = 1.69  
P-360 = 2.17  
P-1440 = 2.49  
P-10 Day = 3.90

ALLOWABLE CONDITIONS

From SAD 228, Basin 201 M  
Q = 10.17 CFS / 5.17 AC = 1.97 CFS/AC  
Q = 1.97 \* 0.5701 = 1.12 cfs

V-24 HOUR = 0.667/5.17 = 0.129 AC-FT/AC  
V-24 HOUR = 0.129 \* 0.3565 = 0.04599 AC-FT  
V-24 HOUR = 2,003.37 CF

V-24 HOUR (REQUIRED) :  
= 2,081.67-2,003.37 = 78.30 CF

FIRST FLIUSH PONDING REQUIREMENT

IMPERVIOUS AREA =6,988.50 SF  
FIRST FLUSH VOL. REQL. = 0.42" x 6,988.50 / 12 = 244.60 CF

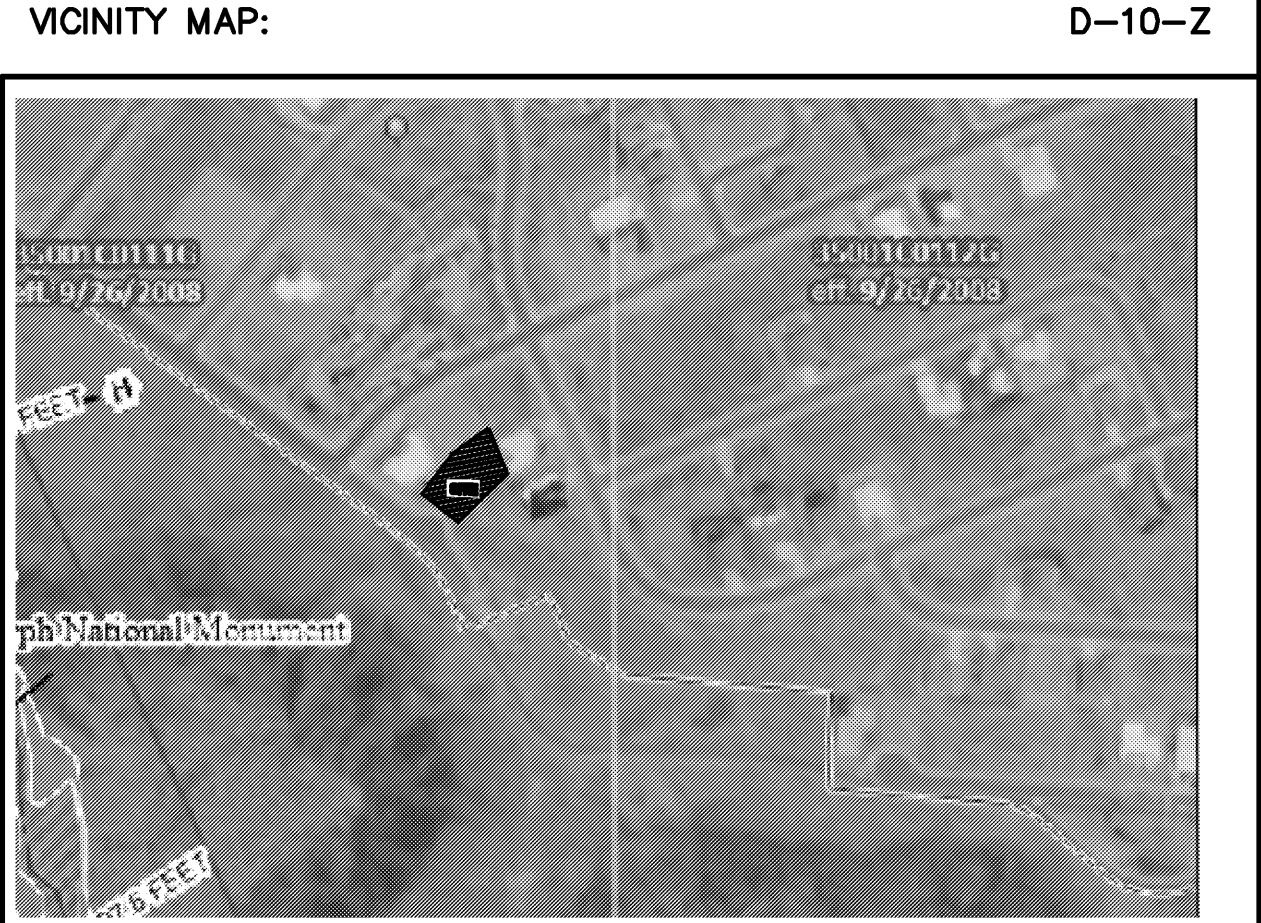
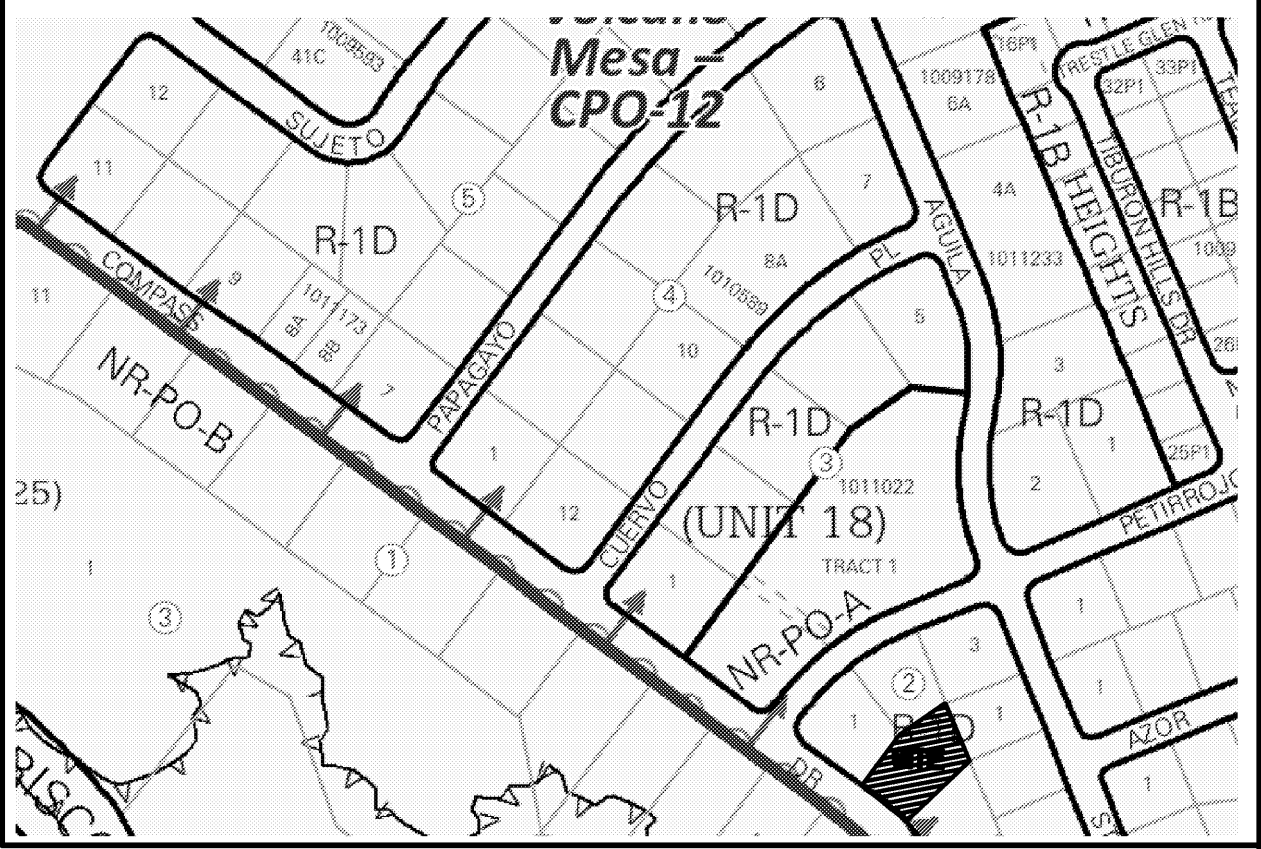
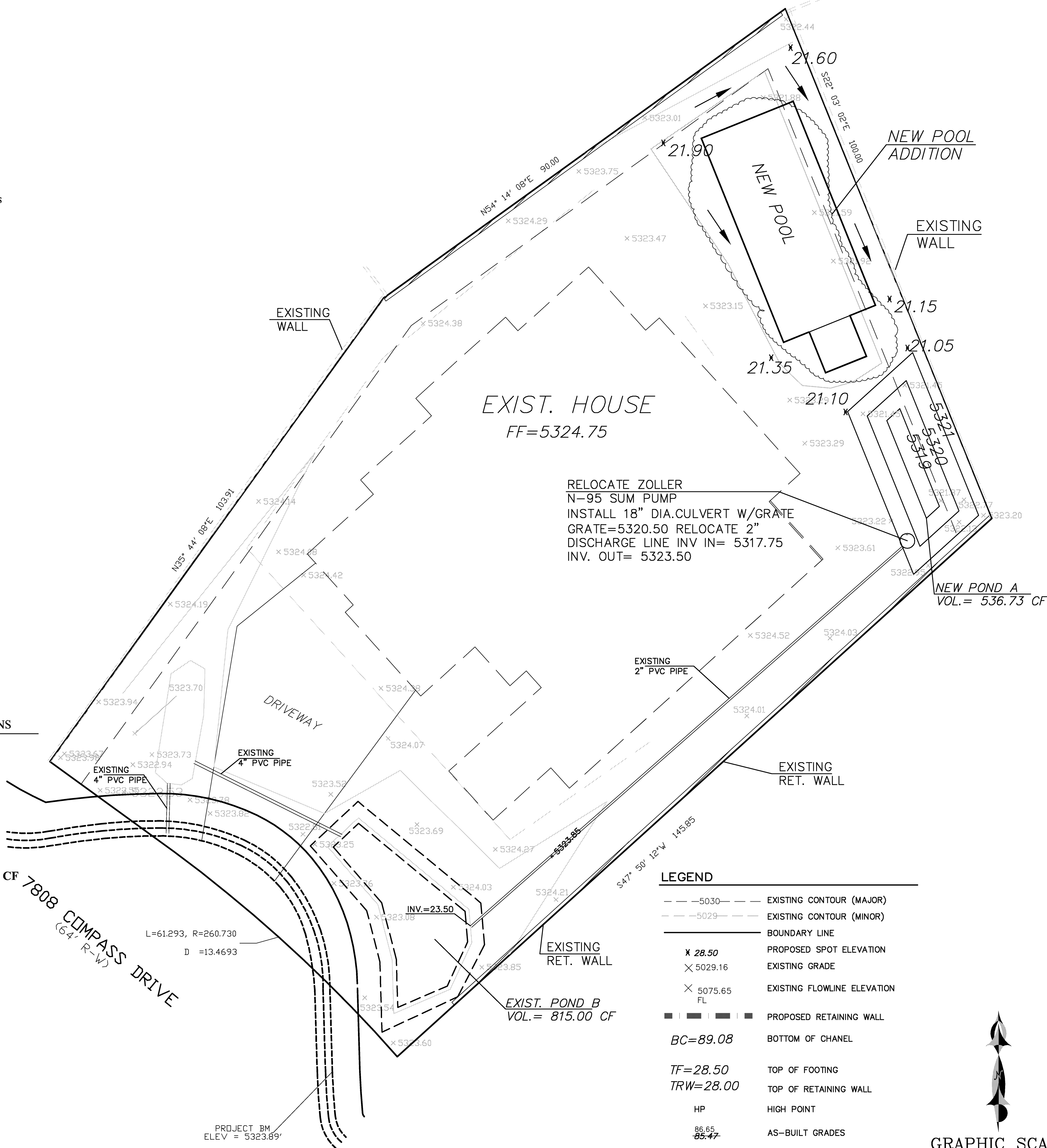
PONDING VOLUME CALCULATION

TOTAL POND AREA PROVIDED =  
PONDING CALCULATIONS:

POND A NEW:  
AREA @ ELEV. 21.00 = 479.22 SF  
AREA @ ELEV. 19.00 = 57.51 SF  
POND VOLUME=(479.22+57.51)/2\*2.00=536.73 CF

POND B EXISTING:  
POND VOLUME= 815.25 CF

TOTAL PONDING VOLUME PROVIDED = 536.73+815.00=1,351.73 CF



VICINITY MAP: D-10-Z  
FIRM MAP: 35001C0111G  
LEGAL DESCRIPTION:  
Lots 36, BLOCK 2, VOLCANO CLIFFS SUBDIVISION, UNIT 19  
ADDRESS: 7808 COMPASS DR., N.W.

BENCHMARK  
CITY BNCHMARK 17\_D10, ELEVATION OF 5325.068 FEET ABOVE SEA LEVEL.

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.

GENERAL NOTES:  
1: CONTOUR INTERVAL IS HALF (1.00) FOOT.  
2: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION 17\_D10, HAVING AN ELEVATION OF 5325.068 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 5300 TO ALL PROPOSED SPOT ELEVATIONS.



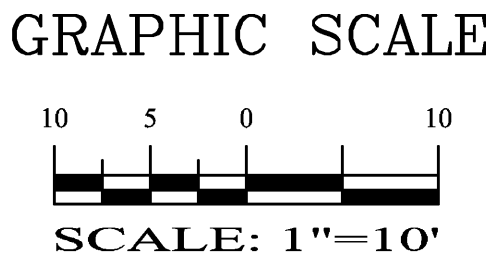
REZA AFAGHPOUR  
P.E. #11814

SBS CONSTRUCTION  
AND ENGINEERING, LLC

7632 WILLIAM MOYERS AVE., NE  
ALBUQUERQUE, NEW MEXICO 87122  
(505)804-5013

7808 COMPASS DR., N.W.  
GRADING PLAN

DRAWING: 202202-GD.DWG	DRAWN BY: SH-B	DATE: 2-22-21	SHEET # 1
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LAST REVISION: 12-17-2022