

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

April 26, 2023

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

RE: **Lot 8 Block 2 Unser Cliffs SAD 227
6704 Rim Rock Circ. NW
Grading and Drainage Plan
Engineers Stamp Date 3/25/2023 (D10D025)**

Mr. Afaghpour,

Based upon the information provided in your submittal received 4/7/2023, this plan is approved for grading plan.

Please inform the builder/owner to attach a copy of this approved plan and this letter to the construction sets in the permitting process prior to sign-off by Hydrology.

Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained, with the approved G&D plan and Pad Certification. Advise the owner & Contractor that dirt is not allowed in the public right of way to climb the curb. Crusher fines or lumber is allowed. If dirt is used this will delay going forward with the construction of the home.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist of this plan will be required.

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

Sincerely,

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

RR/SB
File D10D025



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 6704 Rim Rock Circle, NW **Building Permit #:** _____ **Hydrology File #:** D10D025
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: Lot 8, Block 2, Unser Cliffs Subdivision
City Address: 6704 Rim Rock Circle, 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: 4/25/2023 **By:** SHAWN BIAZAR

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

Location

This project is located at 6704 Rim Rock Cir. Albuquerque, NM 87120 and contains 0.3076 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 house.

Existing Drainage Conditions

This project falls within SAD 227 master drainage plan and drain to Rim Rock Cir.

Proposed Conditions and On-Site Drainage Management Plan

The drainage patterns will remain the same. The site will drain to ponds A & B and then to Rim Rock Cir. Ponds A & B are designed to hold a total volume of 537.21 cf. The required first flush volume is 248.58 cf

RUNOFF CALCULATIONS

BASIN	AREA (SF)	AREA (AC)	AREA (MI ²)
ON-SITE	13,400.47	0.30763	0.000481

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

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

LAND TREATMENT

PROPOSED	EXISTING
AA = 0.00%	AA = 0.00%
AB = 27.00%	AB = 100.00%
AC = 20.00%	AC = 0.00%
AD = 53.00%	AD = 0.00%

E = 1.57 IN (PROPOSED)
E = 0.66 IN (EXISTING)

V-360 = 1,758.03 (PROPOSED)
V-360 = 815.20 (EXISTING)

A = 1.54 CFS/AC
B = 2.16 CFS/AC
C = 2.87 CFS/AC
D = 4.12 CFS/AC

TOTAL QP = $Q_{PA} \cdot AA + Q_{PB} \cdot AB + Q_{PC} \cdot AC + Q_{PD} \cdot AD$
= 1.03 CFS (PROPOSED)
TOTAL QP = 0.66 CFS (EXISTING)

FIRST FLIUSH PONDING REQUIREMENT

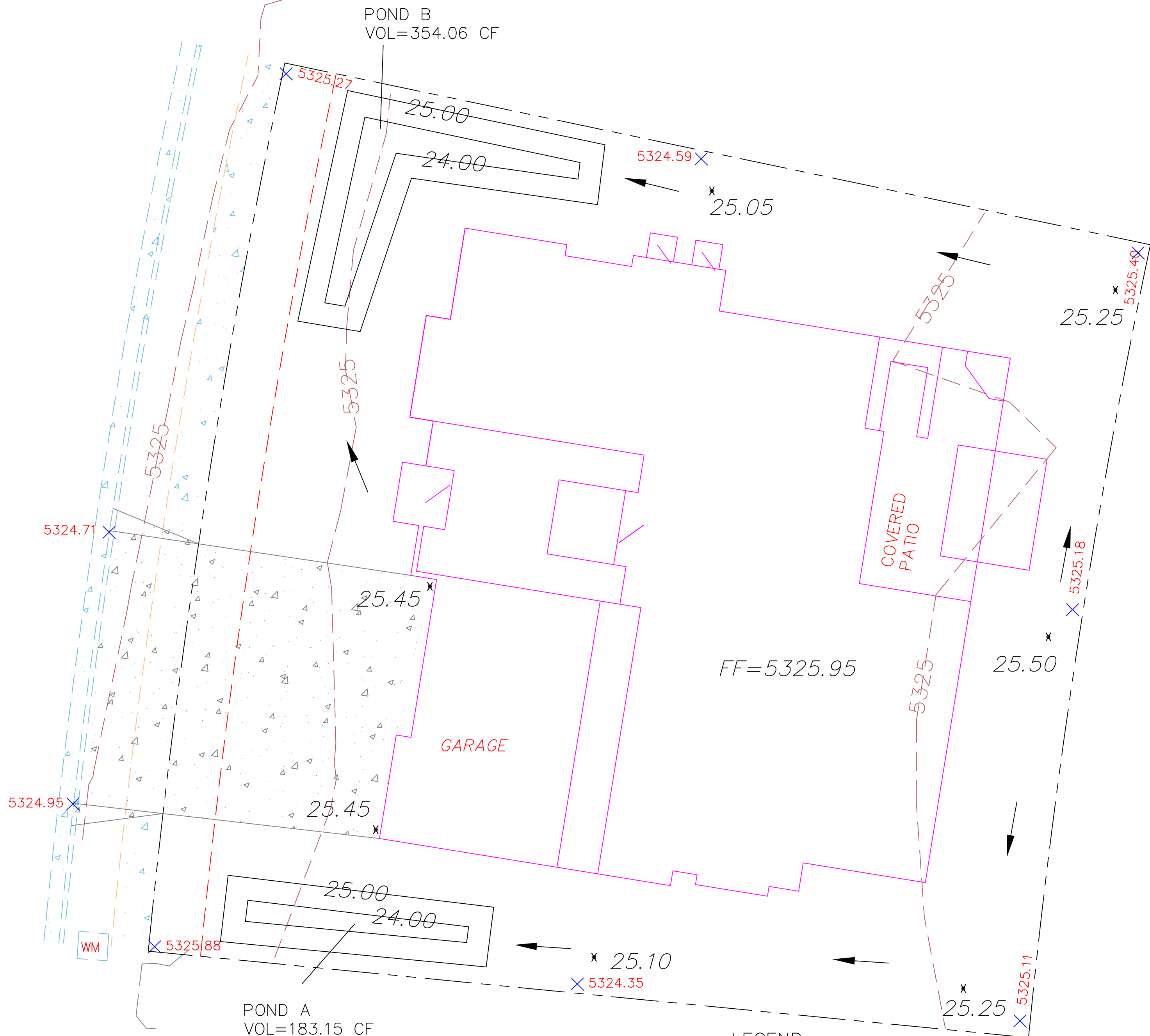
IMPERVIOUS AREA = 7,102.55 SF
FIRST FLUSH VOL. REQUIRED. = 0.42" x 7,102.55 / 12 = 248.58 CF

PONDING VOLUME CALCULATION

POND A:
AREA @ ELEV. 25.40 = 302.04 SF
AREA @ ELEV. 24.40 = 64.25 SF
POND VOLUME = (302.04 + 64.25) / 2 * 1.00 = 183.15 CF

POND B:
AREA @ ELEV. 25.40 = 530.61 SF
AREA @ ELEV. 24.40 = 177.51 SF
POND VOLUME = (530.61 + 177.51) / 2 * 1.00 = 354.06 CF

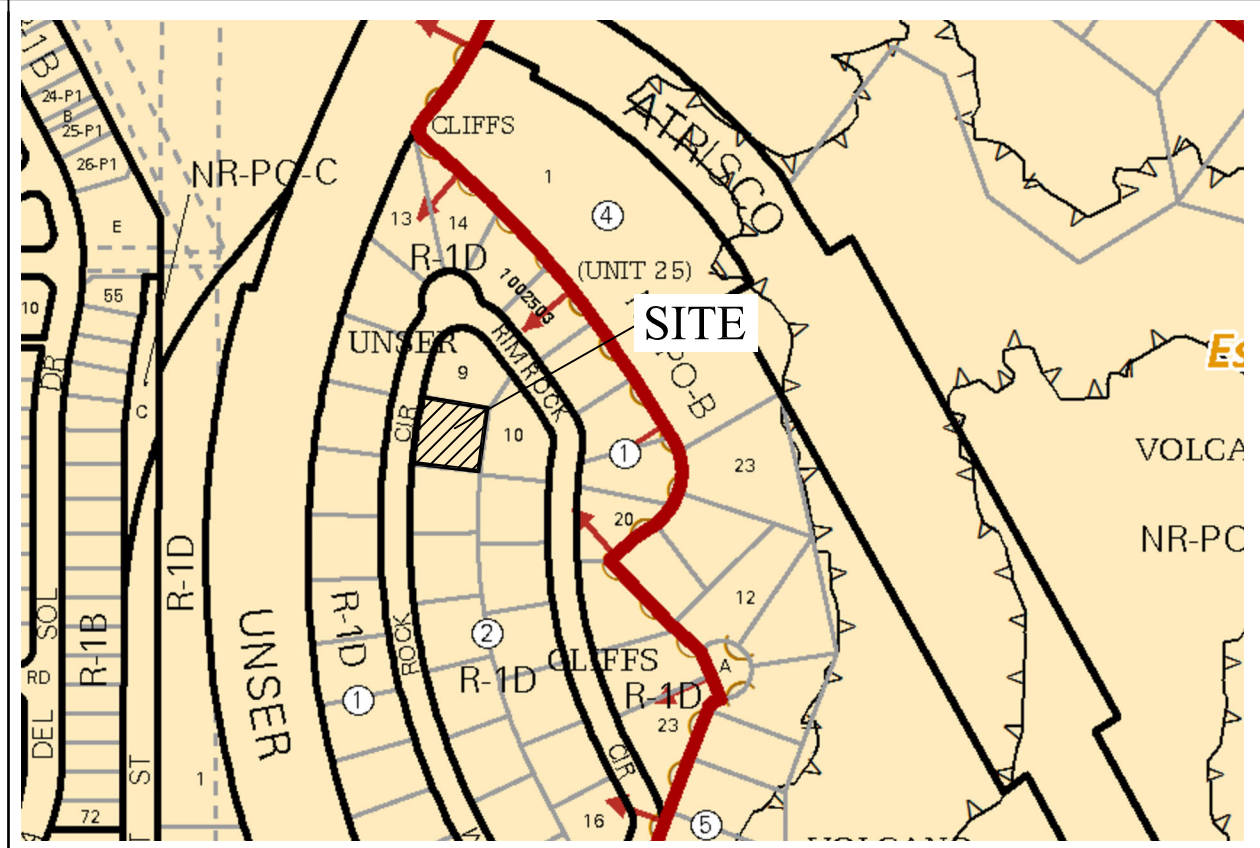
TOTAL PONDING VOLUME PROVIDED = 183.15 + 354.06 = 537.21 CF



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



VICINITY MAP:

D-10-Z



FIRM MAP:

35001C0111G

LEGAL DESCRIPTION:

LOT 8, BLOCK 2, UNSER CLIFFS SUBDIVISION
ADDRESS: 6704 RIM ROCK CIR NW ALBUQUERQUE NM 87120

BENCHMARK

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

EROSION CONTROL PLAN AND POLLUTION PREVENTION NOTES

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL STORM RUNOFF ON SITE.
- REPAIR OF DAMAGED FACILITIES AND CLEAN-UP OF SEDIMENT ACCUMULATION ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

GENERAL NOTES:

- CONTOUR INTERVAL IS HALF (1.00) FOOT.
- ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION 17_D10, HAVING AN ELEVATION OF 5325.068 FEET ABOVE SEA LEVEL.
- 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.
- THIS IS NOT A BOUNDARY SURVEY, BEARINGS ARE ASSUMED, DISTANCES AND FOUND PROPERTY CORNERS ARE FOR INFORMATIONAL PURPOSES ONLY.
- SLOPES ARE AT 3:1 MAXIMUM.
- 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

6704 RIM ROCK CIR NW
GRADING PLAN

DRAWING: RIM ROCK GD.dwg	DRAWN BY: SH-B	DATE: 4/25/2023	SHEET # 1
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