CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director

Mayor Timothy M. Keller

January 19, 2024

David Soule, PE
Rio Grande Engineering
PO Box 93924
Albuquerque, NM 87199

RE: **Lot 4 Block 3 Unit 22 Volcano Cliffs SAD 228**
6324 Camino Alto
Grading and Drainage Plan
Engineers Stamp Date: 8/4/2022 (D10D003R4)
Pad Certification Date: 2/14/2023
CO Certification Date: 1/18/2024

Mr. Soule:

Based upon the information provided in your submittal received 1/19/2024, this plan for Certificate of Occupancy cannot be approved until the following comments are addressed.

- Erosion protection must be provided in ponding areas.
- Provide erosion protection in all swales.

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 D10D003R4

PO Box 1293
Albuquerque
NM 87103
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City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 6324 Camino Alto Building Permit #:_____ Hydrology File #: _____

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: LOT 4, Block 3 VOLCANO CLIFFS UNIT 22

City Address: 6324 Camino Alto

Applicant: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Other Contact: RIO GRANDE ENGINEERING Contact: DAVID SOULE

Address: PO BOX 93924 ALB NM 87199

Phone#: 505.321.9099 Fax#: 505.872.0999 E-mail: david@riograndeengineering.com

TYPE OF DEVELOPMENT: ___ PLAT X RESIDENCE ___ DRB SITE ___ ADMIN SITE

Check all that Apply:

DEPARTMENT:

X HYDROLOGY/ DRAINAGE

___ TRAFFIC/ TRANSPORTATION

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?

IS THIS A RESUBMITTAL?: ___ Yes X No

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

___ 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: _____ By: _____

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED:_____

FEE PAID:_____

Weighted E Method

Basin	Area	Area	Treatment A		Treatment B		Treatment C		Treatment D		100-Year, 6-hr. Weighted E	Volume	Flow	24 hour Volume
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	(ac-ft)
ALLOWED	13495.00	0.310	0%	0	20%	0.062	46%	0.1425	34%	0.105	1.259	0.033	1.00	0.037
PROPOSED	13495.00	0.310	0%	0	25%	0.077	30%	0.0929	45%	0.139	1.351	0.035	1.03	0.040
COMPARISON												0.002		0.004

Equations:

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

Where for 100-year, 6-hour storm- zone 1

Ea= 0.44 Qa= 1.29
Eb= 0.67 Qb= 2.03
Ec= 0.99 Qc= 2.87
Ed= 1.97 Qd= 4.37

ONSITE Conditons
FIRST FLUSH WATER QUALITY VOLUME

	REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY	0	171
FLOOD CONTROL	160	171

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway. Due to existing walls and elevation of rear yard, all the developed water from house will drain to the front and the rear yard will pond itself, overflowing to historical location. The site does exceed the SAD 228 developed conditions assumptions therefore ponding is required
This plan is in conformance to the master drainage plan

CAUTION:

EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

I, DAVID SOULE HAVE PERSONALLY INPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 8/4/22

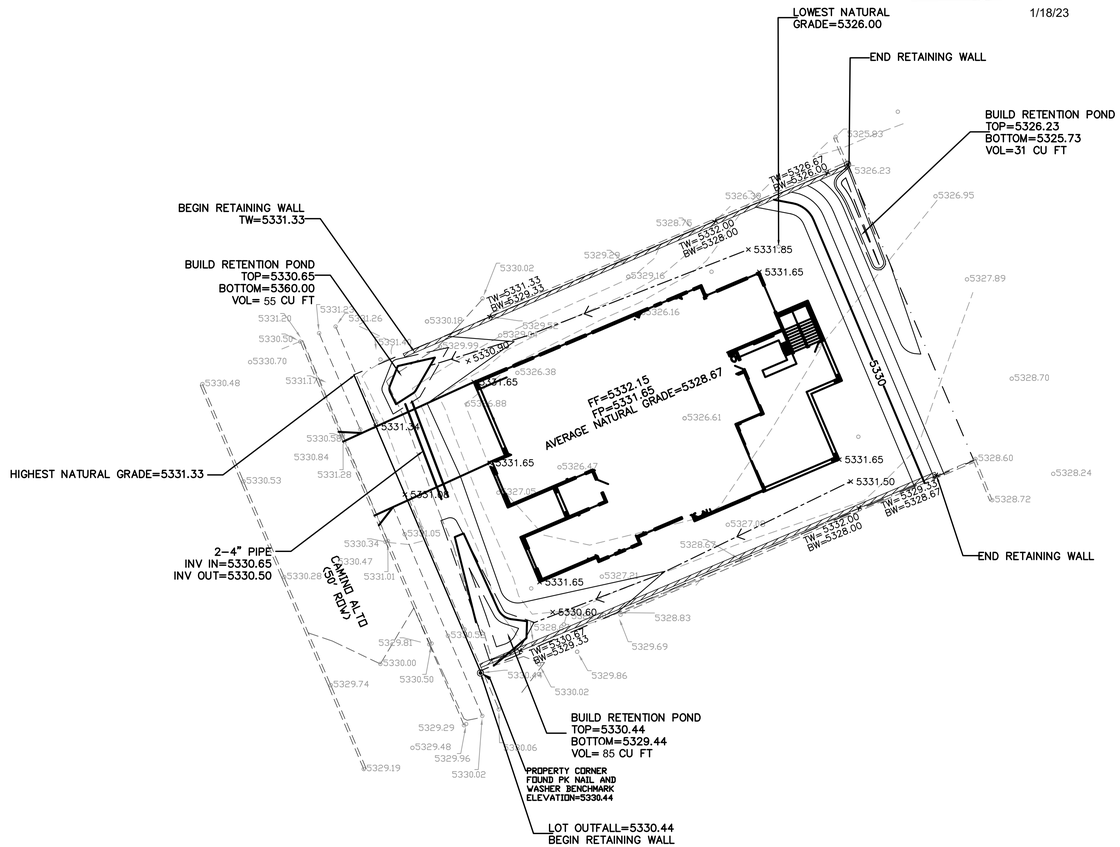
DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

2/14/23

I David Soule, NMPE 14522, of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 8/4/22 . The certification is submitted in support of a request for CERTIFICATE OR OCCUPANCY. The record information presented heron is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project.

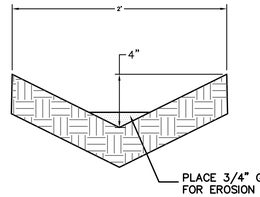
DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

1/18/23

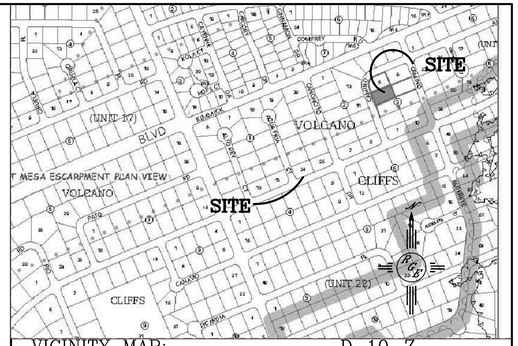


EROSION CONTROL NOTES:

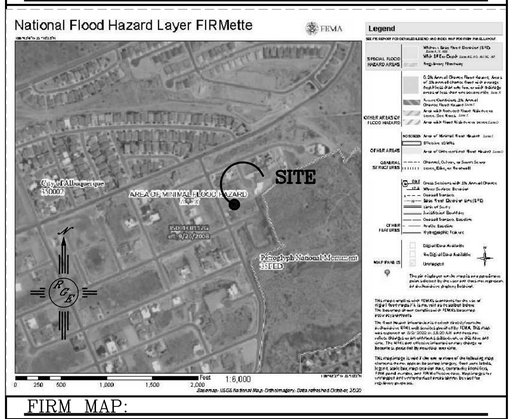
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS 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.



EARTHEN SWALE DETAIL



VICINITY MAP: D-10-Z



FIRM MAP:

LEGAL DESCRIPTION:

LOT 4, BLOCK 3, VOLCANO CLIFFS UNIT 22

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
3. NO PONDING WITHIN 10' OF STRUCTURE.
4. SURVEY INFORMATION PROVIDED BY CSI UTILIZING NAVD 1988 DATUM
5. A PAD ELEVATION CERTIFICATION IS REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT

LEGEND

- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- PROPOSED CONTOUR
- PROPOSED INDEX CONTOUR
- SLOPE TIE
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- LOT LINE
- CENTERLINE
- RIGHT-OF-WAY
- PROPOSED 6" PVC SD
- GRAVEL LINED SWALE
- EXISTING CURB AND GUTTER
- PROPOSED CMU RETAINING WALL-DESIGN BY OTHERS

N

20 10 0 10 20

SCALE: 1"=20'

ENGINEER'S SEAL DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER 8/4/22 DAVID SOULE P.E. #14522	6324 CAMINO ALTO GRADING AND DRAINAGE PLAN Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	DRAWN BY WCWJ DATE 8-04-22 20220055-LAYOUT-7-27-22 SHEET # — JOB # 20220055