

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

July 11, 2023

David Soule, P.E.  
Rio Grande Engineering  
PO Box 93924  
Albuquerque, New Mexico 87199

RE: **Volcano Cliffs Unit 2 lot 31 block 2 SAD 227  
7908 Mauna Loa NW  
Grading and Drainage Plan  
Engineers Stamp Date: 7/20/2022 (E10D121)  
Pad Certification Date: 6/13/2023**

Mr. Soule,

Based upon the information provided in your submittal received 7/11/2023, this plan is approved for Building permit.

PO Box 1293

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.

Albuquerque

**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. Inform the owner & Contractor that dirt is not allowed in the public right of way to climb the curb. Crusher fines or lumber are allowed. If dirt is used this will delay the permitting process.**

NM 87103

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

www.cabq.gov

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

Sincerely,

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

RR/TC  
File E10D121



# City of Albuquerque

Planning Department  
Development & Building Services Division

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

**Project Title:** 7908 MAUNA LOADR NW **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_

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

**Legal Description:** LOT 31 , BLOCK 2 VOLCANO CLIFFS UNIT 2

**City Address:** 7908 MAUNA LOA DR NW

**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  RESIDENCE \_\_\_ DRB SITE \_\_\_ ADMIN SITE

Check all that Apply:

**DEPARTMENT:**

- HYDROLOGY/ DRAINAGE
- TRAFFIC/ TRANSPORTATION

**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

**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?

- 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) \_\_\_\_\_

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

**DATE SUBMITTED:** \_\_\_\_\_ **By:** \_\_\_\_\_

COA STAFF:

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

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

**Weighted E Method**

Basin	Area (sf)	Area (acres)	Treatment				100-Year, 6-hr.		24 hour					
			Treatment A	Treatment B	Treatment C	Treatment D	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)				
ALLOWED	11683.00	0.268	0%	0	20%	0.054	46%	0.1234	34%	0.091	0.691	0.015	0.85	0.019
PROPOSED	11683.00	0.268	0%	0	20%	0.054	32%	0.0858	48%	0.129	0.703	0.016	0.89	0.021

**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= 0.55	Qa= 1.54
Eb= 0.62	Qb= 2.16
Ec= 0.67	Qc= 2.87
Ed= 0.76	Qd= 4.12

ONSITE Conditions  
DRAINAGE SUMMARY

	REQUIRED (CF)	PROVIDED (CF)
FLOOD CONTROL	75	550

**Narrative**

This site is within the SAD 227 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway per the master drainage plan. The rear will pond itself prior to discharging to adjacent properties. The site does exceed the SAD 227 developed conditions assumptions, therefore ponding is required. Upland flow does not impact the property. This plan is in conformance to the master drainage plan. In the effort to reduce pad height, we are proposing draining under sidewalk per SO-19 process

**Private Drainage Facilities within City Right-of-Way  
Notice to Contractor  
(Special Order 19 ~ "SO-19")**

- Build sidewalk culvert per COA STD DWG 2236. Work is permitted and inspected by DMD Construction Services Division.
- An excavation permit will be required before beginning any work within City Right-Of-Way.
- All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
- Prior to any excavation, the contractor must contact **New Mexico One Call**, dial "811" or (505) 260-1990 for the location of existing utilities.
- Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be 95%.
- Maintenance of the facility shall be the responsibility of the owner of the property being served.
- Work on arterial streets may be required on a 24-hour basis.
- For excavation and barricading inspections, contact DMD Construction Services Division.

REV. 01/22/21

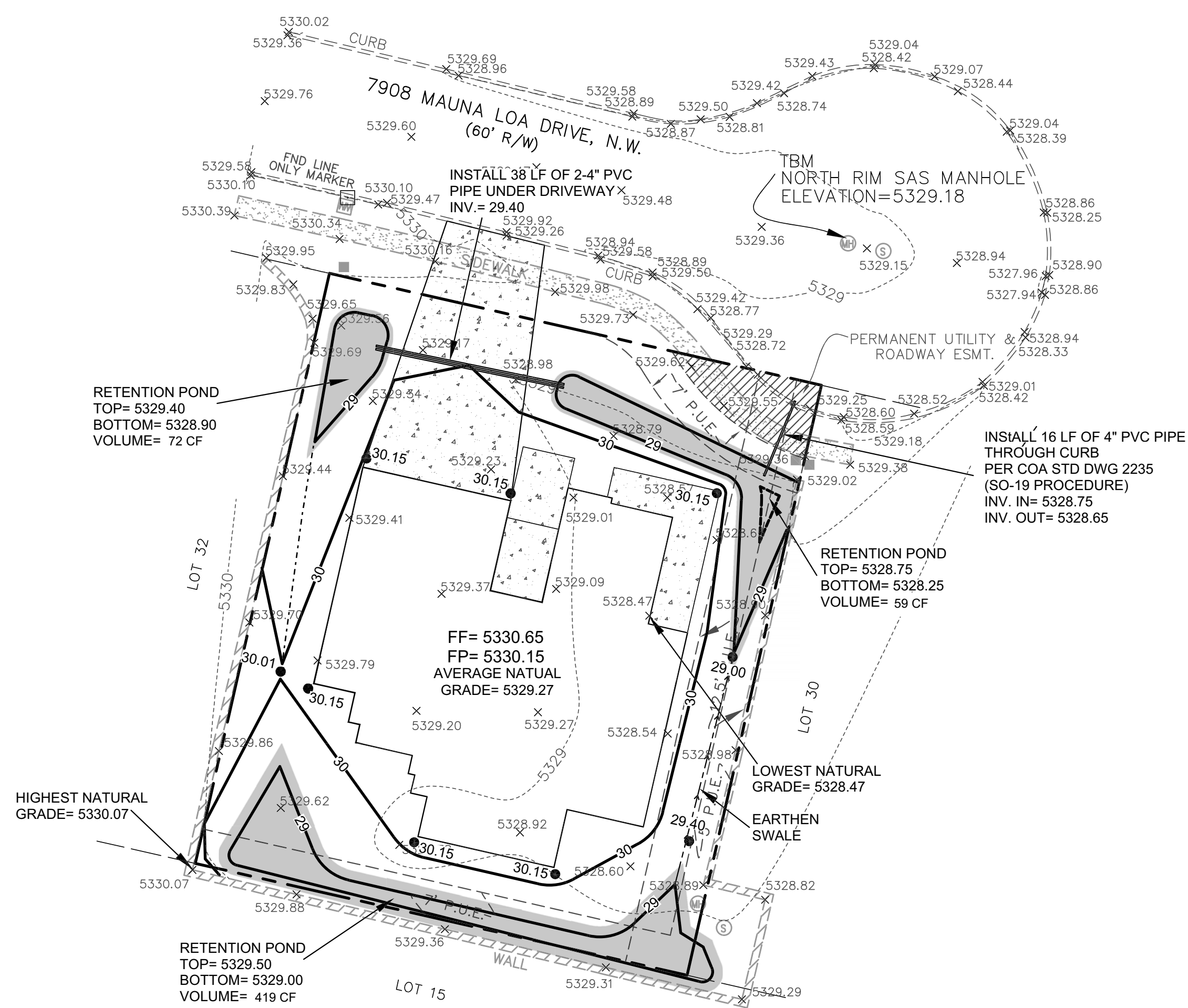
**CAUTION:**

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.

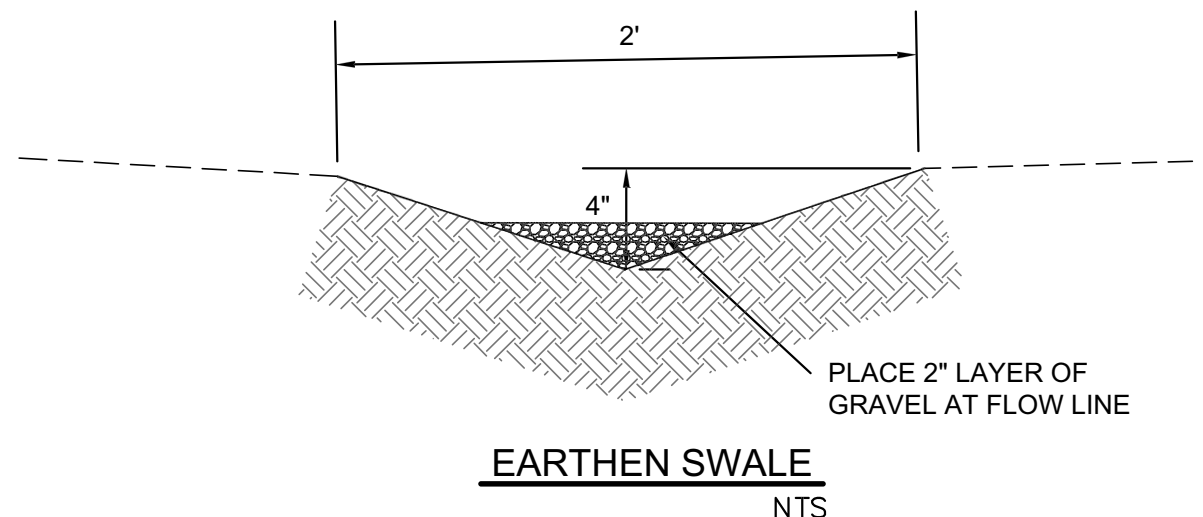
I, DAVID SOULE HAVE PERSONALLY INSPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 7/20/22 BASED UPON APPROVAL FROM DESIGN ENGINEER THE PAD HAS BEEN CONSTRUCTED 6" HIGHER. THE DRAINAGE CONCEPT HAS NOT CHANGED. I CERTIFY THE PAD IS AT A GRADE THAT CONFORMS TO THE APPROVED PLAN AND ACCEPTABLE FOR RELEASE OF BUILDING PERMIT



6/13/23



CONSTRUCT ALL SWALES AND EROSION PROTECTION (SHOWN HATCHED) BELOW ADJACENT GRADE TO ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY.

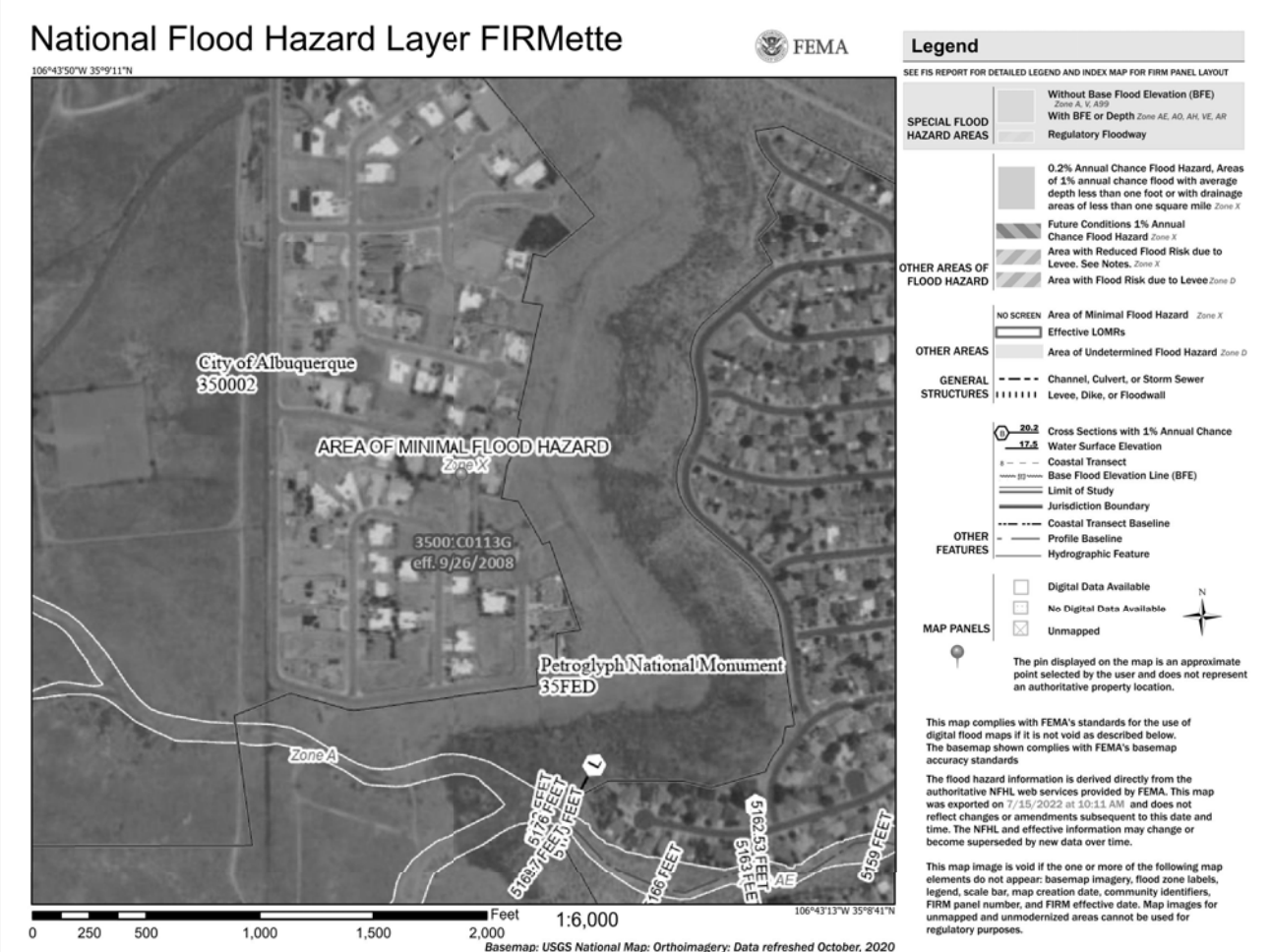


**EROSION CONTROL NOTES:**

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



**VICINITY MAP: E-10-Z**



**FIRM MAP:**

**LEGAL DESCRIPTION:**

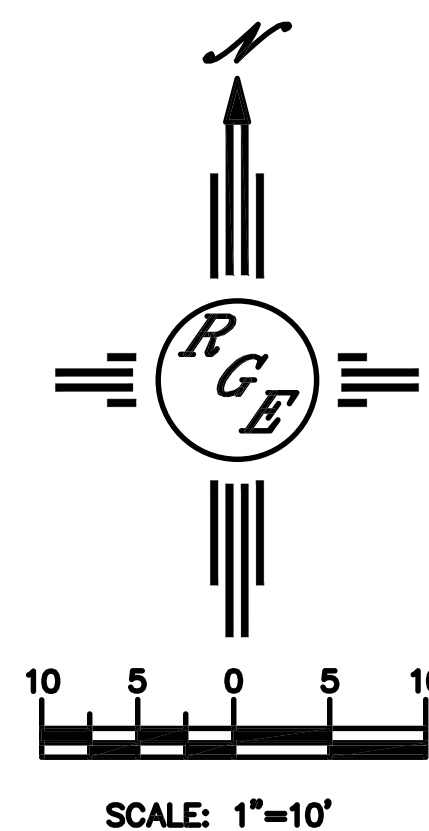
LOT 31 BLOCK 2 UNIT 2 VOLCANO CLIFFS CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

**NOTES:**

- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
- SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
- A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

**LEGEND**

-----XXXX-----	EXISTING CONTOUR
-----XXXX-----	EXISTING INDEX CONTOUR
-----XXXX-----	PROPOSED CONTOUR
-----XXXX-----	PROPOSED INDEX CONTOUR
+ XXXX	EXISTING SPOT ELEVATION
● XXXX	PROPOSED SPOT ELEVATION
-----	BOUNDARY
-----	ADJACENT BOUNDARY
=====	EXISTING CURB AND GUTTER
-----	PROPOSED EARTHEN SWALE
-----	PROPOSED CONCRETE
-----	PROPOSED PONDING



ENGINEER'S SEAL  7/20/22 DAVID SOULE P.E. #14522	LOT 31 BLK 2 UN 2 VC 7908 MAUNA LOA DR.	DRAWN BY DEM
	GRADING AND DRAINAGE PLAN	DATE 7-18-22
 Rio Grande Engineering P.O. BOX 53284 ALBUQUERQUE, NM 87199 (505) 321-8099	Lot 31 Blk 2 Un 2 VC.dwg	SHEET # C1
		JOB #