

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

January 26, 2023

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

RE: **Volcano Cliffs Unit 5 lot 33 block 8 SAD 227**  
**7900 Marigold Dr. NW**  
**Grading and Drainage Plan**  
**Engineers Stamp Date; 11/14/2022 (E10D120)**  
**Pad Certification Date; 12/30/2022**

Mr. Soule,

Based upon the information provided in your submittal received 1/25/2023, 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 Engineer, Hydrology  
Planning Department, Development Review Services

RR/TC  
File E10D120



# CITY OF ALBUQUERQUE INVOICE

RIO GRANDE ENGINEERING DAVID SOULE

PO BOX 93924

Reference NO: SI-2022-02498

Customer NO: CU-65925427

Date	Description	Amount
12/30/22	2% Technology Fee	\$1.50
12/30/22	HYD Conceptual G&D Plan or Report - Re	\$75.00

Due Date: **12/30/22**

Total due for this invoice:

**\$76.50**

Options to pay your Invoice:

1. Online with a credit card: <http://posse.cabq.gov/posse/pub/lms/Default.aspx>
2. In person: Plaza Del Sol, 600 2nd St. NW, Albuquerque, NM 87102

PLEASE RETURN THE BOTTOM PORTION OF THIS INVOICE NOTICE WITH PAYMENT



City of Albuquerque  
PO Box 1293  
Albuquerque, NM 87103

**Date:** 12/30/22  
**Amount Due:** \$76.50  
**Reference NO:** SI-2022-02498  
**Payment Code:** 130  
**Customer NO:** CU-65925427

RIO GRANDE ENGINEERING DAVID  
SOULE  
PO BOX 93924  
ALBUQUERQUE, NM 87199



130 0000SI202202498000993551173072168000000000000007650CU65925427

Weighted E Method

							100-Year, 6-hr.			24 hour				
Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)
			%	(acres)	%	(acres)	%	(acres)	%	(acres)				
ALLOWED FRONT	11182.00	0.257	0%	0	20%	0.051	46%	0.1181	34%	0.087	1.259	0.027	0.82	0.030
	11182.00	0.257	0%	0	26%	0.067	32%	0.0821	42%	0.108	1.318	0.028	0.84	0.032

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 Conditions

DRAINAGE SUMMARY

	REQUIRED (CF)	PROVIDED (CF)
FLOOD CONTROL	89	91

Narrative

This site is within the SAD 227 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent open space property to the east per the master drainage plan. The site does exceed the SAD 227 developed conditions assumptions, therefore ponding is required. Due to the site being within the height restriction area, ponds and drainage pipes are proposed to minimize elevation of the building drain to the street and the rear yard fills and overflows to the openspace. Upland flow does not impact the property. This plan is in conformance to the master drains

Private Drainage Facilities within City Right-of-Way

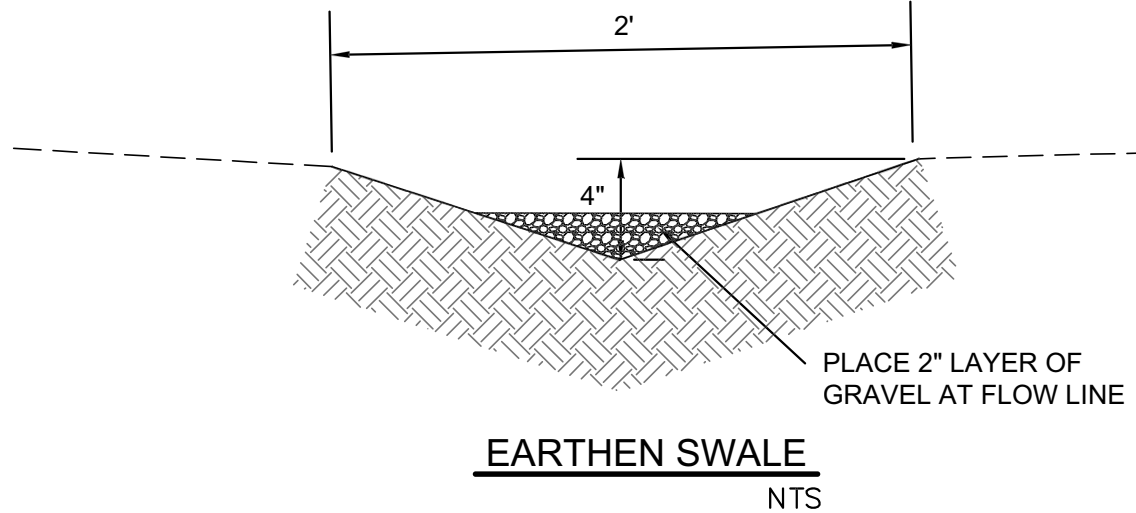
Notice to Contractor

(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

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



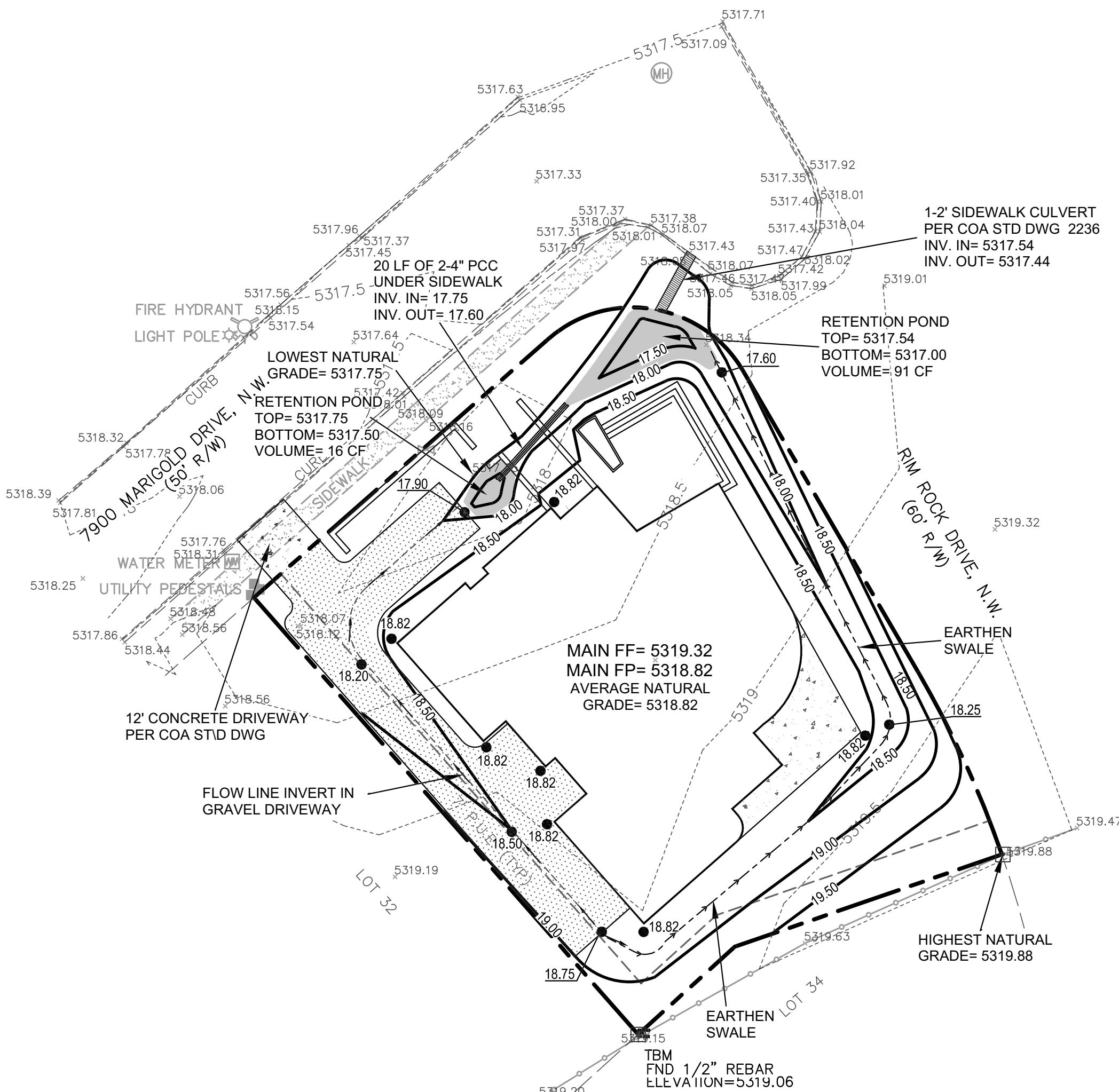
CAUTION:

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 11/14/22

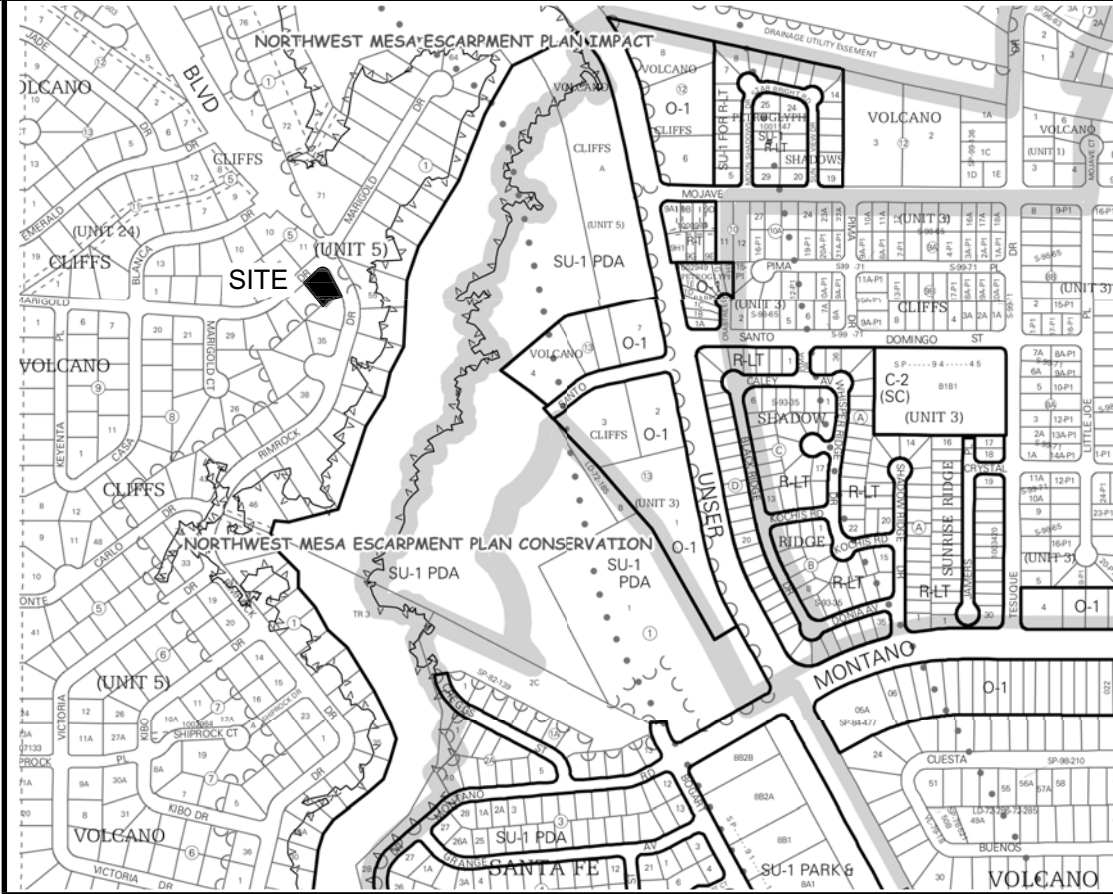


12/30/22



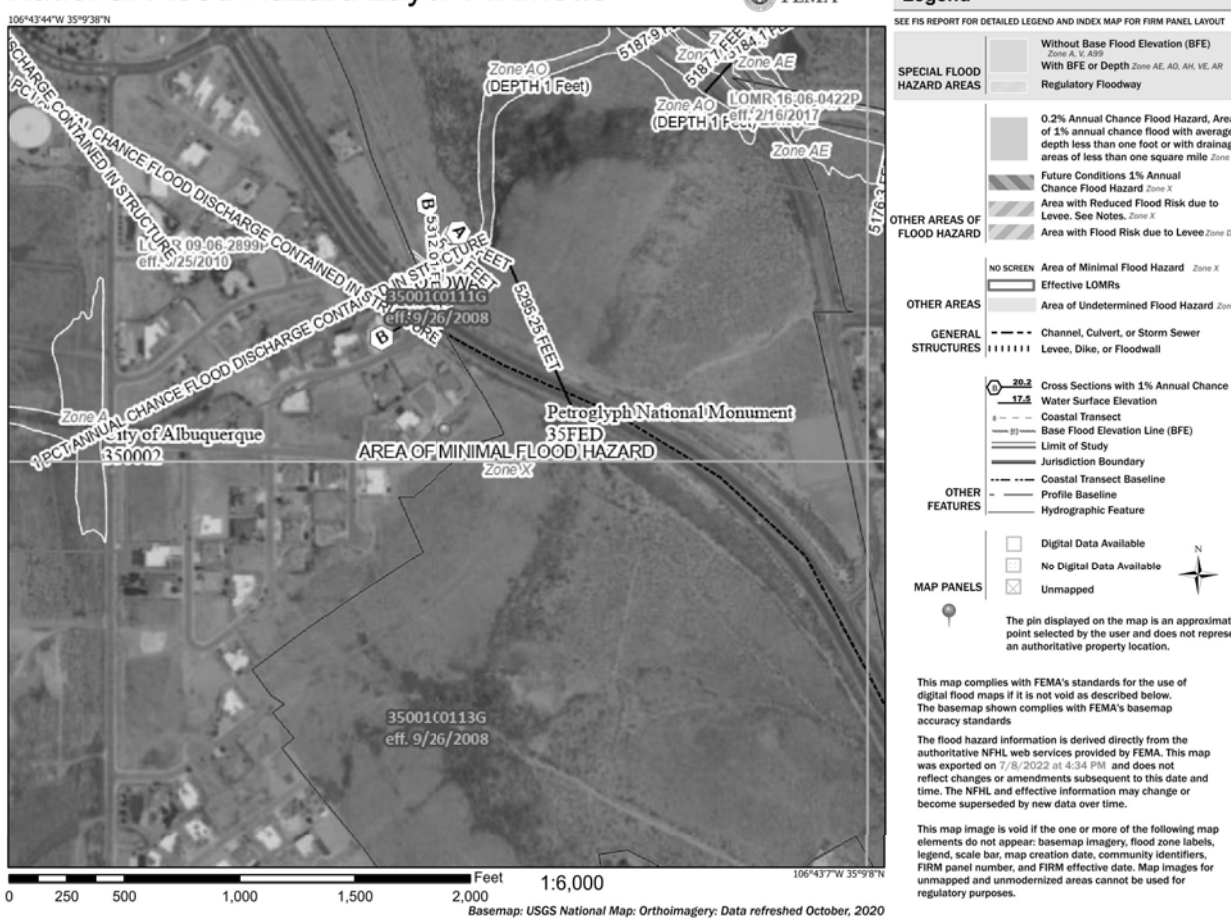
EROSION CONTROL NOTES:

- 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

National Flood Hazard Layer FIRMette



FIRM MAP:

LEGAL DESCRIPTION:

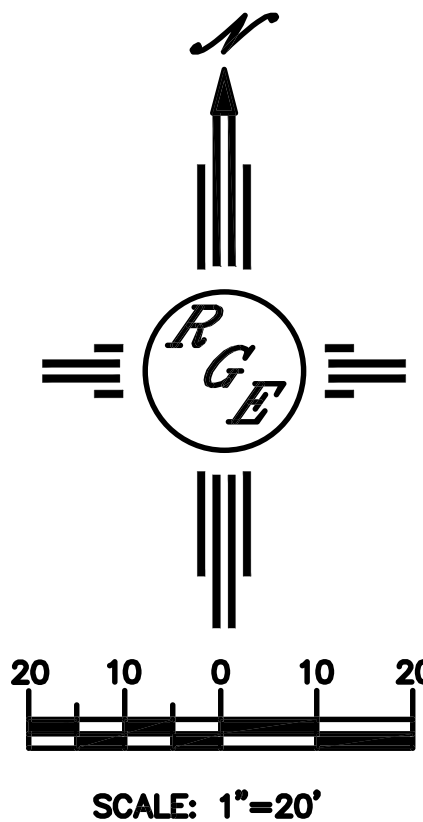
LOT 33 BLOCK 8 UNIT 5 VOLCANO CLIFFS  
CITY OF ALBUQUERQUE, BERNAILLO COUNTY, NEW MEXICO

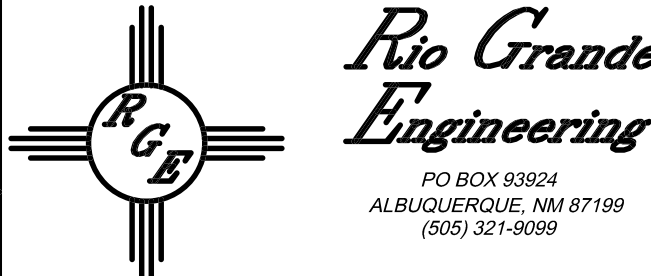
NOTES:

- 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
-----	PROPOSED GRAVEL DRIVEWAY



ENGINEER'S SEAL  DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 11/14/22  DAVID SOULE P.E. #14522	LOT 33 BLK 8 UN 5 VC 7900 MARIGOLD DR  GRADING AND DRAINAGE PLAN  	DRAWN BY DEM  DATE 11-12-22  7900 Marigold Dr-Revised-DWG
	SHEET # <b>C1</b>	JOB #