

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

March 26, 2024

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

RE: **Lot 2 Block 1 Unit 5 SAD 227
6605 Rim Rock Cir. NW
Volcano Cliffs Subdivision
Grading and Drainage Plan
Engineers Stamp Date 3/22/2024 (D10D026)**

Mr. Soule,

Based upon the information provided in your submittal received 3/25/2024, this plan is approved for Grading Permit.

PO Box 1293

Prior to Building permit approval a Pad Certification will be required, provided by the Engineer or a registered Land Surveyor.

Albuquerque

Advise the owner contractor not to use dirt as a ramp to climb the curb, use lumber or crusher fines for this purpose. Place this note on the plan.

NM 87103

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. Also, if a swimming pool is to be placed after this approval a new grading and drainage plan will need to be resubmitted showing the changes for the land treatments.

www.cabq.gov

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist is 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/TC
C: File D10D026

Weighted E Method												100-Year, 6-hr.			24 hour
Basin	Area (sf)	Area (acres)	Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs			Volume (ac-ft)			Volume (ac-ft)
ALLOWED	16354.00	0.375	0%	0	24%	0.090	40%	0.1502	36%	0.135	1.362	0.043		1.18	0.052
PROPOSED	16354.00	0.375	0%	0	21%	0.079	27%	0.1014	52%	0.195	1.575	0.049		1.27	0.062
COMPARISON												0.007			0.011

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

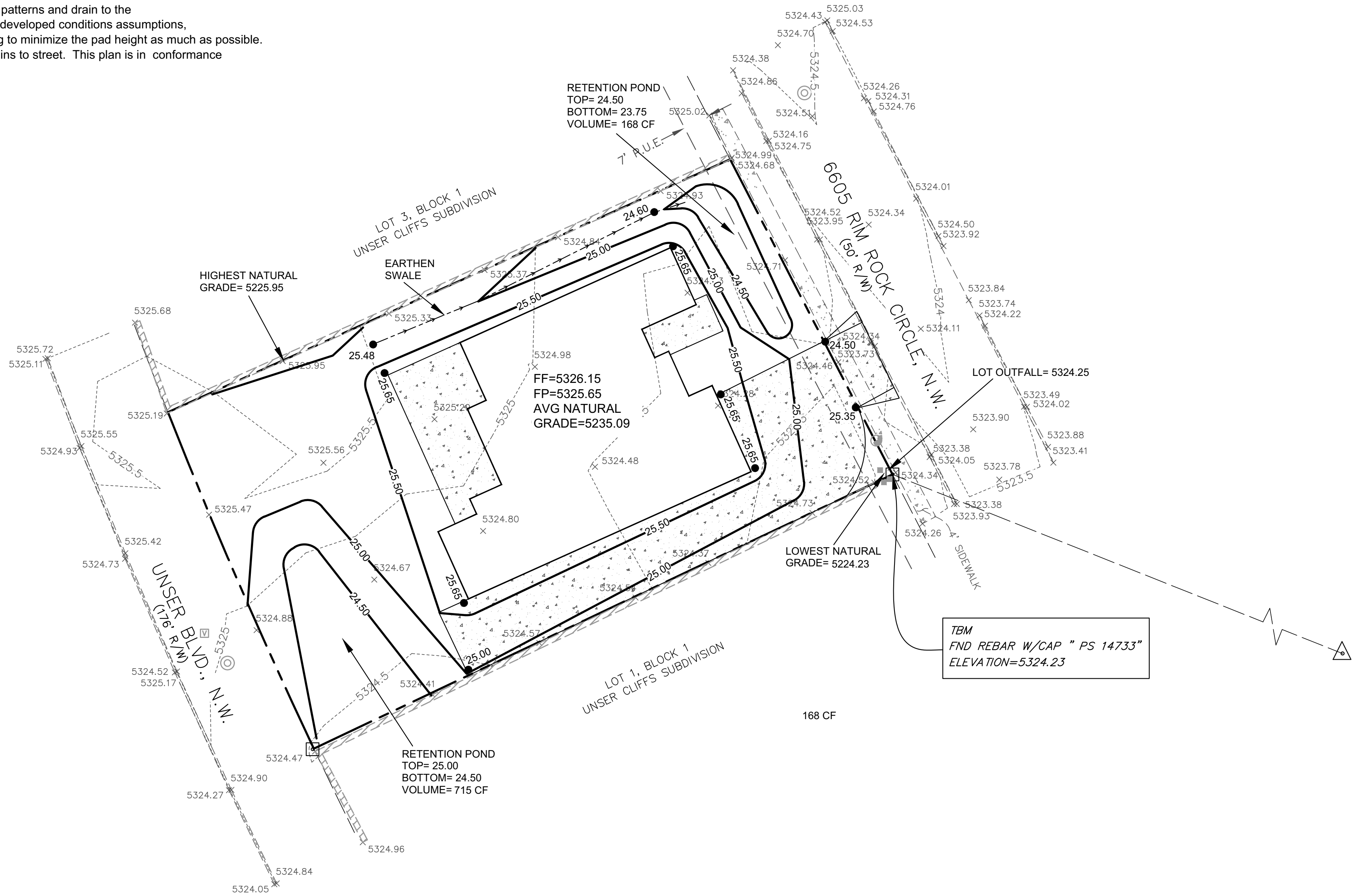
Where for 100-year, 6-hour storm- zone 1

Ea= 0.55	Qa= 1.54
Eb= 0.73	Qb= 2.16
Ec= 0.95	Qc= 2.87
Ed= 2.24	Qd= 4.12

ONSITE Conditions	FIRST FLUSH WATER QUALITY VOLUME	
	REQUIRED	PROVIDED
	(CF)	(CF)
WATER QUALITY	0	883
FLOOD CONTROL	465	883

Narrative

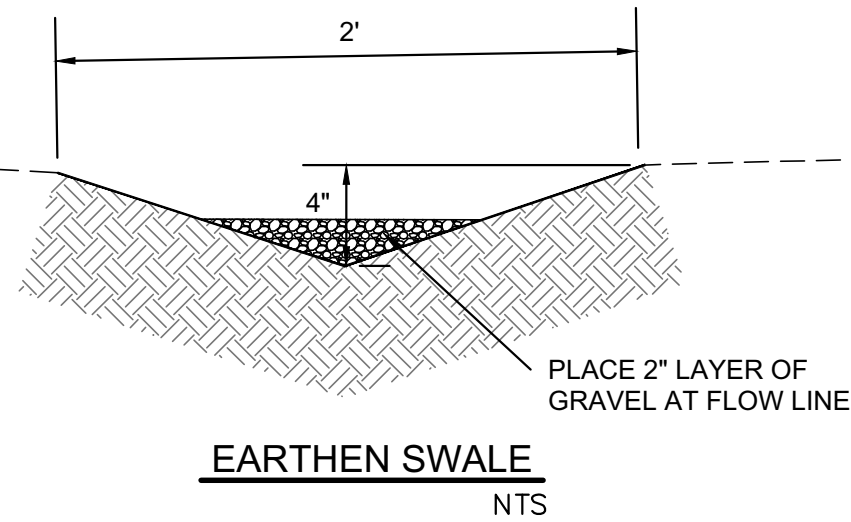
This site is within the SAD 227 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway to the south per the master drainage plan. The site does exceed the SAD 227 developed conditions assumptions, therefore ponding OF 883 CF is required. Due to hight restrictions we have incorporated ponding to minimize the pad height as much as possible. We are ponding the water harvest volume generated by the site. All building generated water drains to street. This plan is in conformance to the master drainage plan



CAUTION:

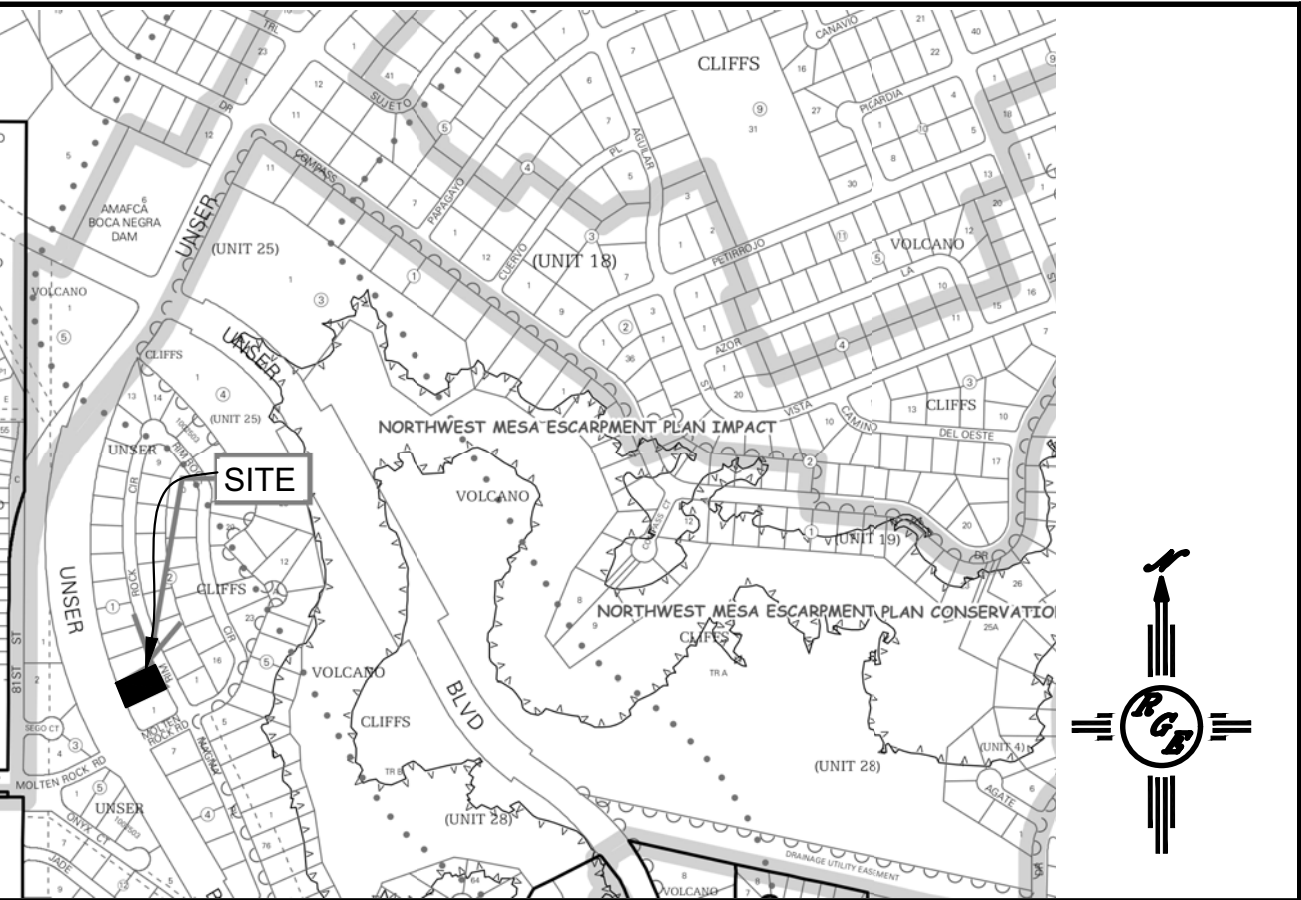
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

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

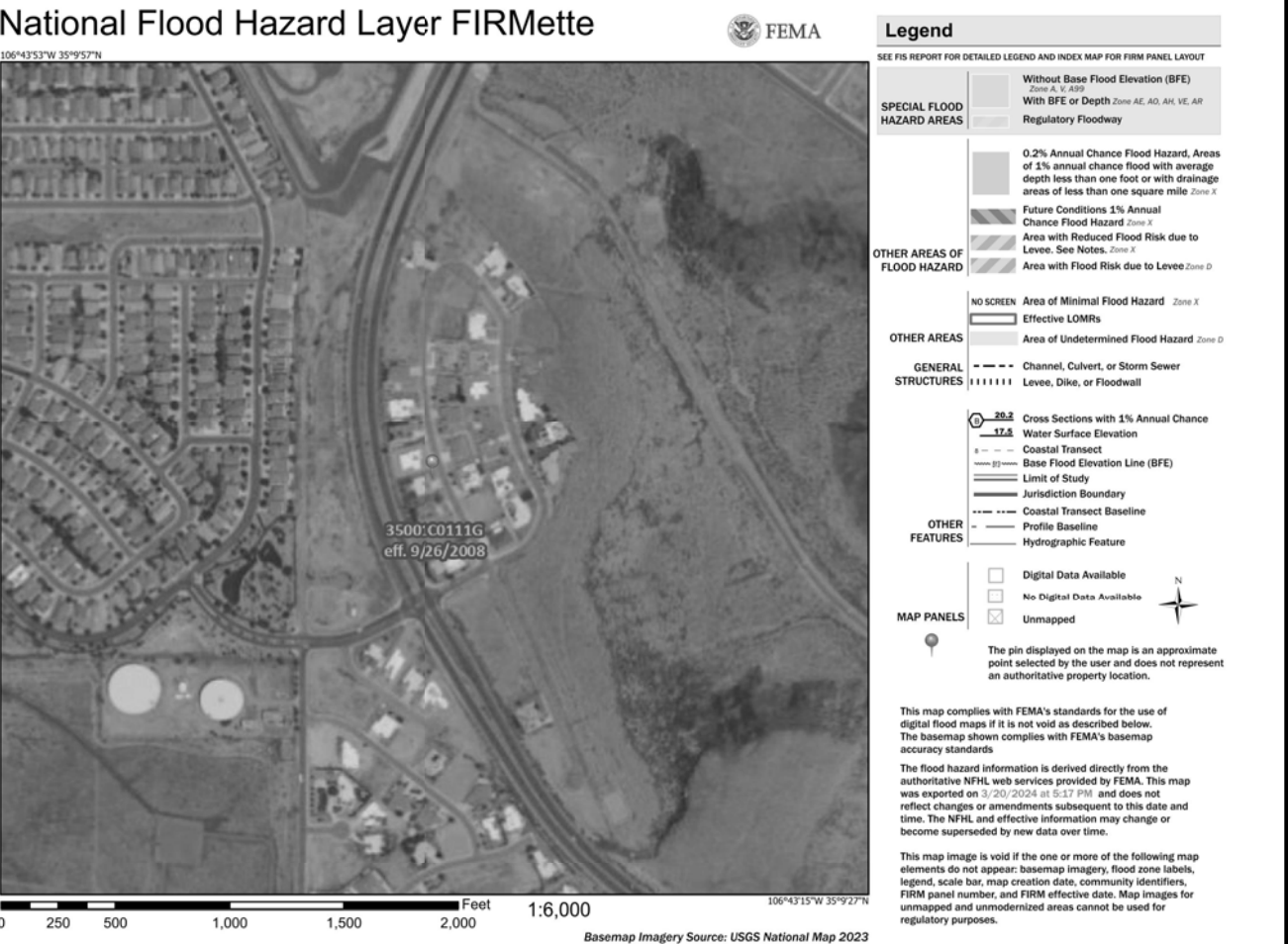


EROSION CONTROL NOTES:

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.



VICINITY MAP: D-10-Z



FIRM MAP:

LEGAL DESCRIPTION:

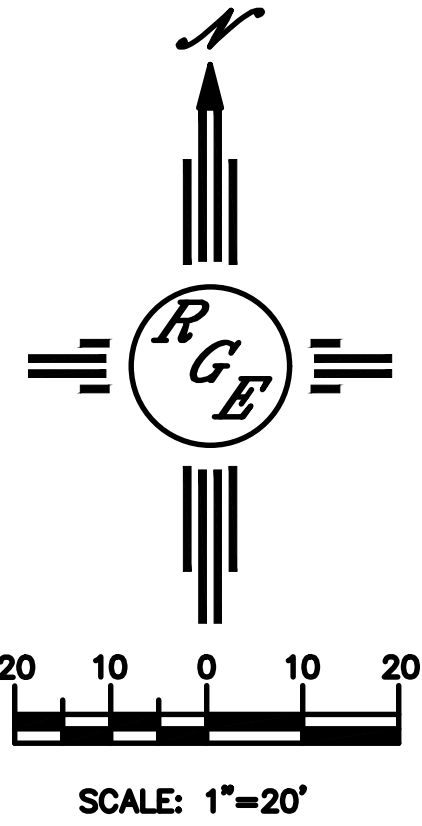
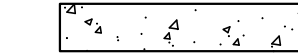
LOT 2, BLOCK 1 UNSER CLIFFS SUBDIVISION
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

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. ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
5. 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



ENGINEER'S SEAL	LOT 2 BLK 1 UNSER CLIFFS SUB. 6605 RIM ROCK CIRCLE NW	DRAWN BY DEM
DAVID SOULE 14522 REGISTERED PROFESSIONAL ENGINEER 3/22/24	GRADING AND DRAINAGE PLAN	DATE 3-21-24
DAVID SOULE P.E. #14522	Rio Grande Engineering P.O. BOX 53924 ALBUQUERQUE, NM 87199 (505) 321-9099	6605 Rim Rock Circle NW.DWG
	SHEET # C1	JOB #