

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

August 12, 2025

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

RE: **Lot 23 Block 6 Volcano Cliffs Unit 18 SAD 228**
6511 Pato Rd. NW
Grading and Drainage Plan
Engineers Stamp Date 4/19/2025 (D10D003M23)
Pad Certification Date 8/6/2025
Case # HYDR-2025-00279

Mr. Soule,

Based upon the information provided in your submittal received 8/11/2025, 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. 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.

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 D10D003M23

Weighted E Method

Basin	100-Year, 6-hr.						Volume (ac-ft)	Flow cfs	Volume (ac-ft)					
	Area (sf)	Area (acres)	Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)				Weighted E (ac-ft)				
ALLOWED	14540.00	0.334	0%	0	20%	0.067	46%	0.1535	34%	0.113	1.345	0.037	0.58	0.042
PROPOSED	14540.00	0.334	0%	0	20%	0.067	29%	0.0968	51%	0.170	1.564	0.044	0.42	0.050
COMPARISON											0.006			0.008

Equations:

Weighted E = Ea**A*a + Eb**A*b + Ec**A*c + Ed**A*d / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * *A*a + Qb * *A*b + Qc * *A*c + Qd * *A*d

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

Qa= 1.54
Eb= 0.73
Ec= 0.95
Ed= 2.24

ONSITE Conditions

FIRST FLUSH WATER QUALITY VOLUME	REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY FLOOD CONTROL	260	366
	360	366

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns. The site does exceed the SAD 228 developed conditions assumptions therefore ponding is required. No upland flow enter the site. This plan is in conformance to the master drainage plan

**City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED**

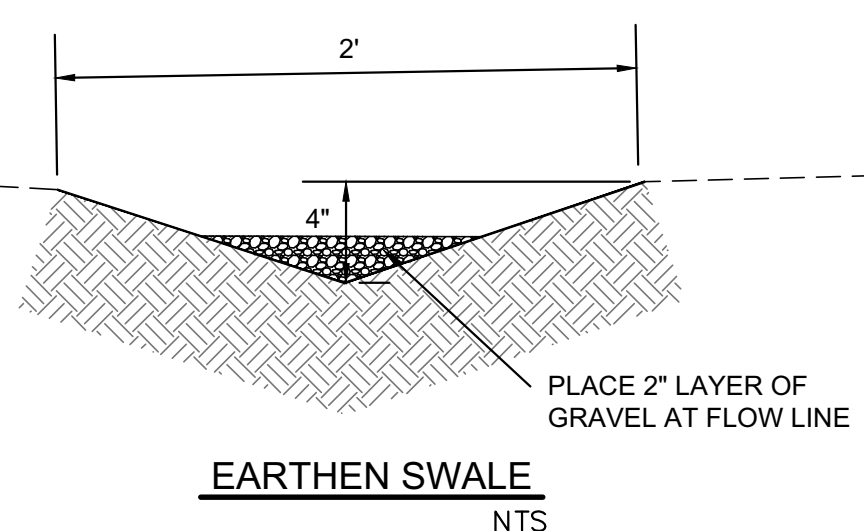
DATE: 8/12/2025
BY: *David Soule*
HydroTeam #: D10D003M23

THE APPROVAL OF THESE PLANS/REPORTS SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTIONS FOR ERRORS OR OMISSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTION DOCUMENTS. SUCH APPROVED PLANS/REPORTS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION. THE APPROVAL OF THESE PLANS/REPORTS SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.

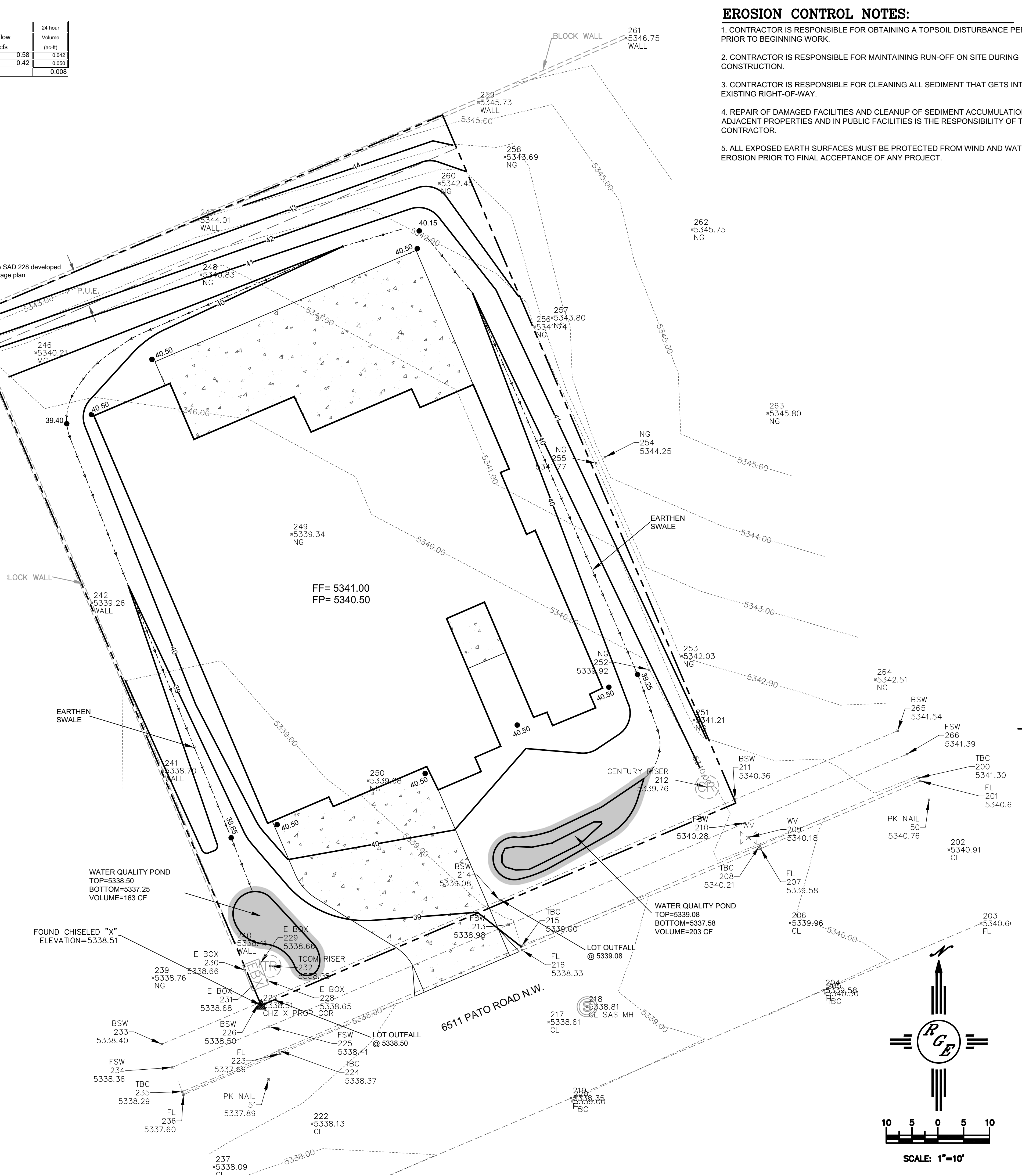
I, DAVID SOULE HAVE PERSONALLY INSPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 4/19/25



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

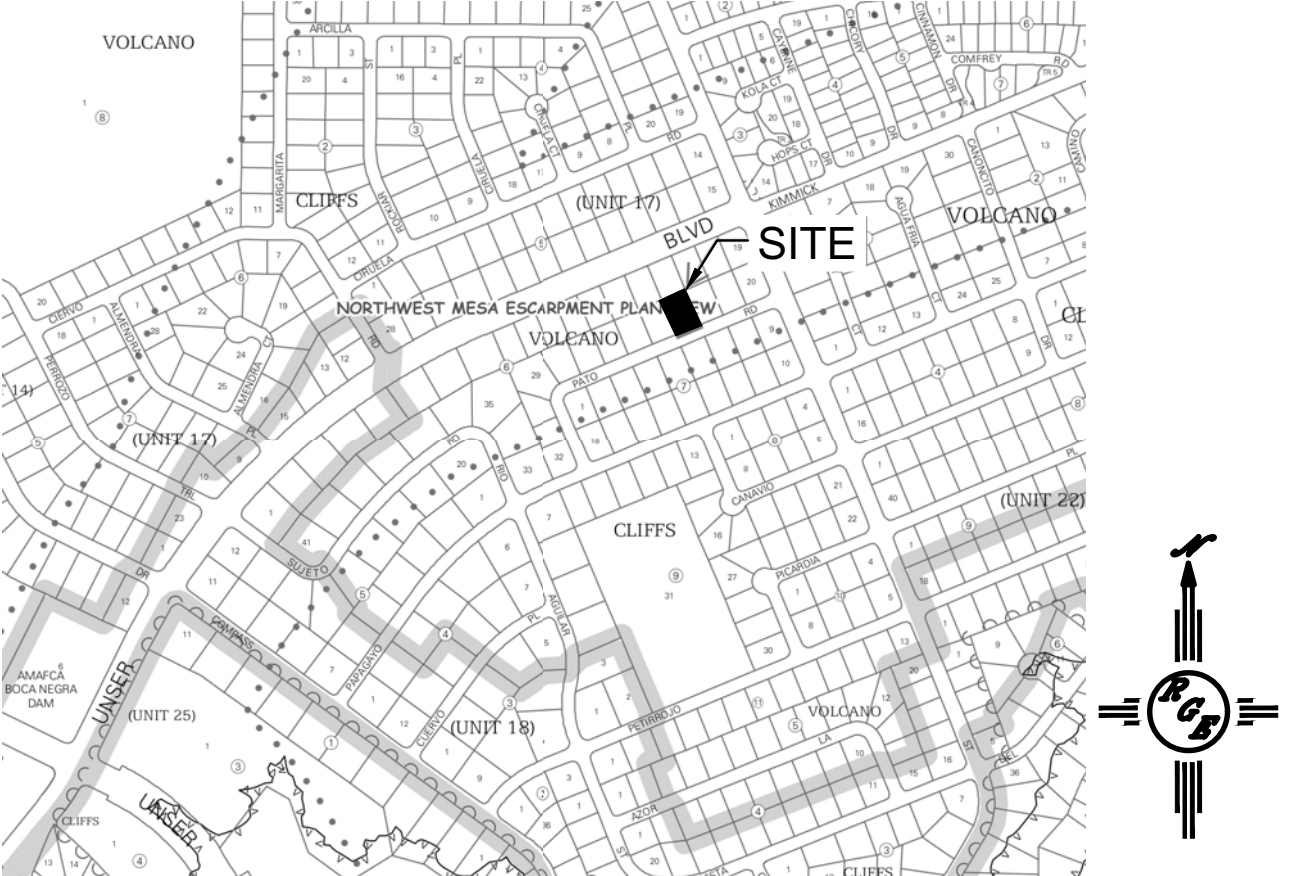


CAUTION:
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.



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:

National Flood Hazard Layer FIRMette

LEGEND

- Special Flood Hazard Areas: 1% Annual Chance Flood Hazard, 0.2% Annual Chance Flood Hazard, etc.
- Other Areas: Area of Minimal Flood Hazard, etc.
- Map Panels: No Region Data Available, etc.

FIRM MAP:

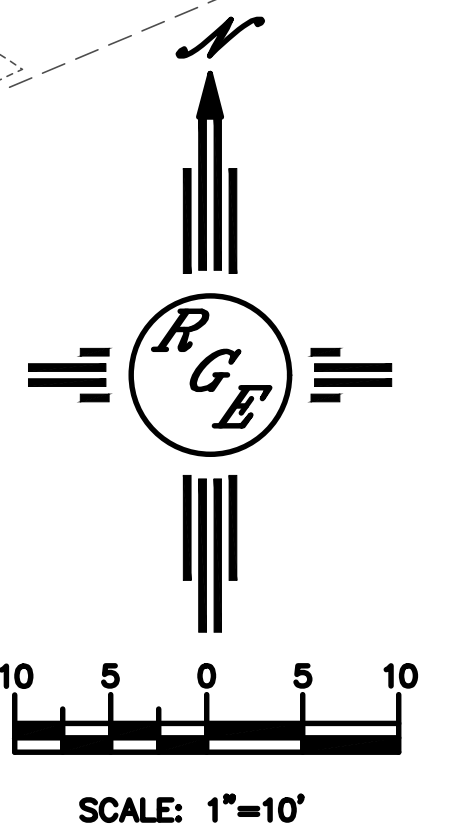
LEGAL DESCRIPTION:
LOT 23, BLOCK 6 VOLCANO CLIFFS SUBDIVISION UNIT 18 CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

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 DYNAMIC CONSTRUCTION AND TECHNOLOGY LLC USING NAVD DATUM 1988.
5. LONG TERM MAINTENANCE OF ALL PONDS, SWALES AND OVERFLOWS IS REQUIRED
6. 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 RETAINING WALL
- [Hatched] PROPOSED GRAVEL
- [Dotted] PROPOSED CONCRETE
- [Cobble] PROPOSED 2' WIDE COBBLE SWALE



ENGINEER'S SEAL	LOT 23 BLK 6 U 18 VC 6511 PATO ROAD NW	DRAWN BY DEM
	GRADING AND DRAINAGE PLAN	DATE 4-18-25
4/19/25		SHEET # C1
DAVID SOULE P.E. #14522	PO BOX 93924 ALBUQUERQUE, NM 87199 (505) 321-8099	JOB #