

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

March 24, 2021

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

RE: **Lot 7 Block 5 Volcano Cliffs Unit 19 SAD 228
6531 Azor Pl. NW
Grading and Drainage Plan
Engineers Stamp Date 2/11/2021 (D10D003H7)
Pad Certification Date 3/23/2021**

Dear Mr. Soule,

Based upon the information provided in your submittal received 3/3/2021, 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. Also, let the owner/contractor know that if a pool is to be added in the future the G&D plan will need to be modified showing the location of the pool and the land treatment differences.

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 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Ernest Armijo, P.E.
Principal Engineer, Planning Dept.
Development Review Services

Weighted E Method

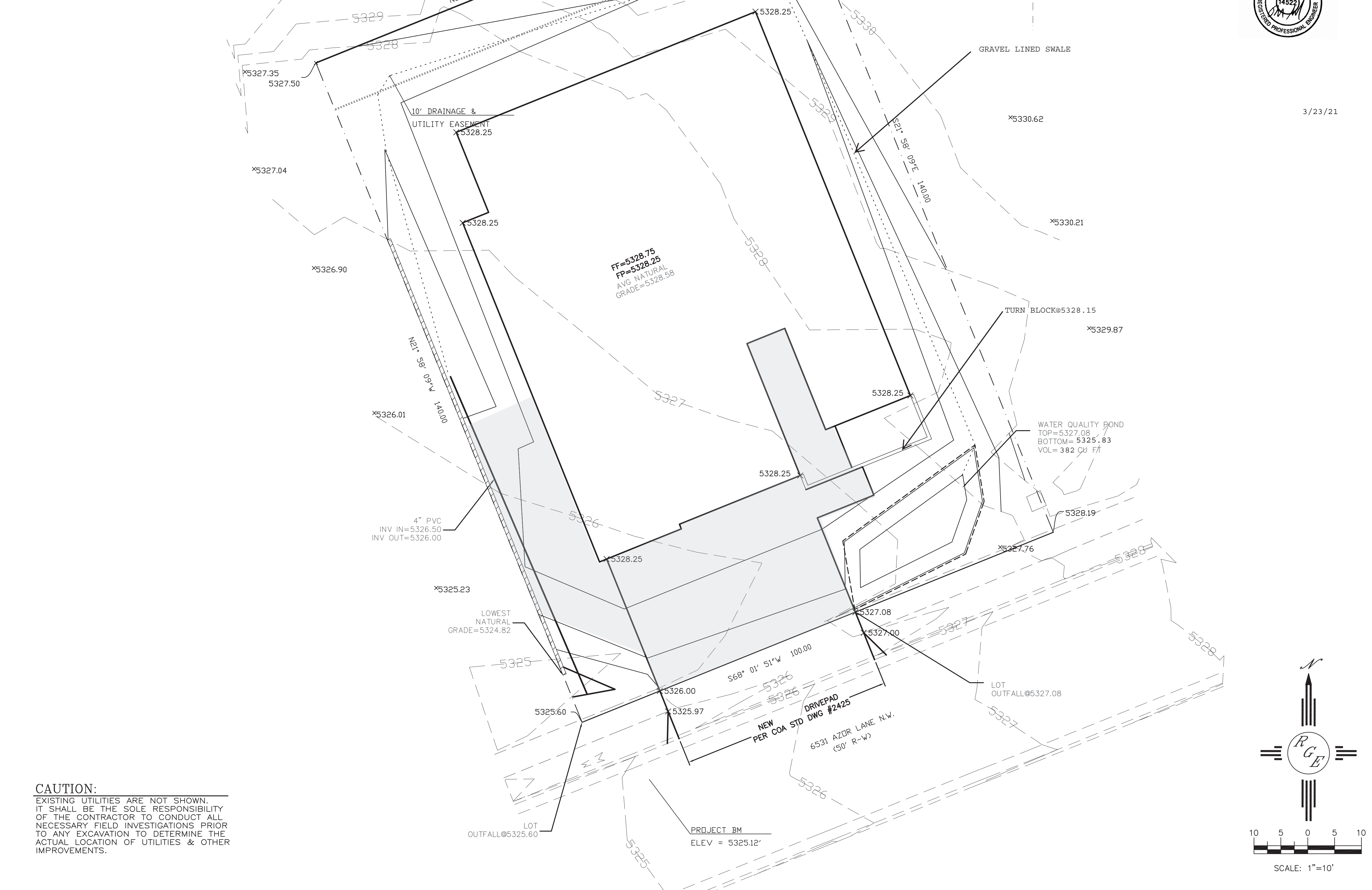
Basin	Area (sf)	Area (acres)	Treatment				100-Year, 6-hr.		24 hour				
			Treatment A	Treatment B	Treatment C	Treatment D	Weighted E (ac-ft)	Flow (cfs)	Volume (ac-ft)				
ALLOWED	14019.00	0.322	0%	24%	0.077	40%	0.1287	36%	0.116	1.362	0.037	1.01	0.044
PROPOSED	14019.00	0.322	0%	22%	0.071	27%	0.0869	51%	0.164	1.560	0.042	1.08	0.053
COMPARISON											0.005		0.009

Equations:
 Weighted E = Ea'Aa + Eb'Ab + Ec'Ac + Ed'Ad / (Total Area)
 Volume = Weighted E * 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 (CF)	PROVIDED (CF)
WATER QUALITY FLOOD CONTROL	0	382
	371	382

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 to the southeast per the master drainage plan. The site does exceed the SAD 227 developed conditions assumptions, therefore ponding of 371 cf is required. Due to height 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. Upland flow from adjacent lot weeps thru wall and is allowed to pass thru site. This plan is in conformance to the master drainage plan.



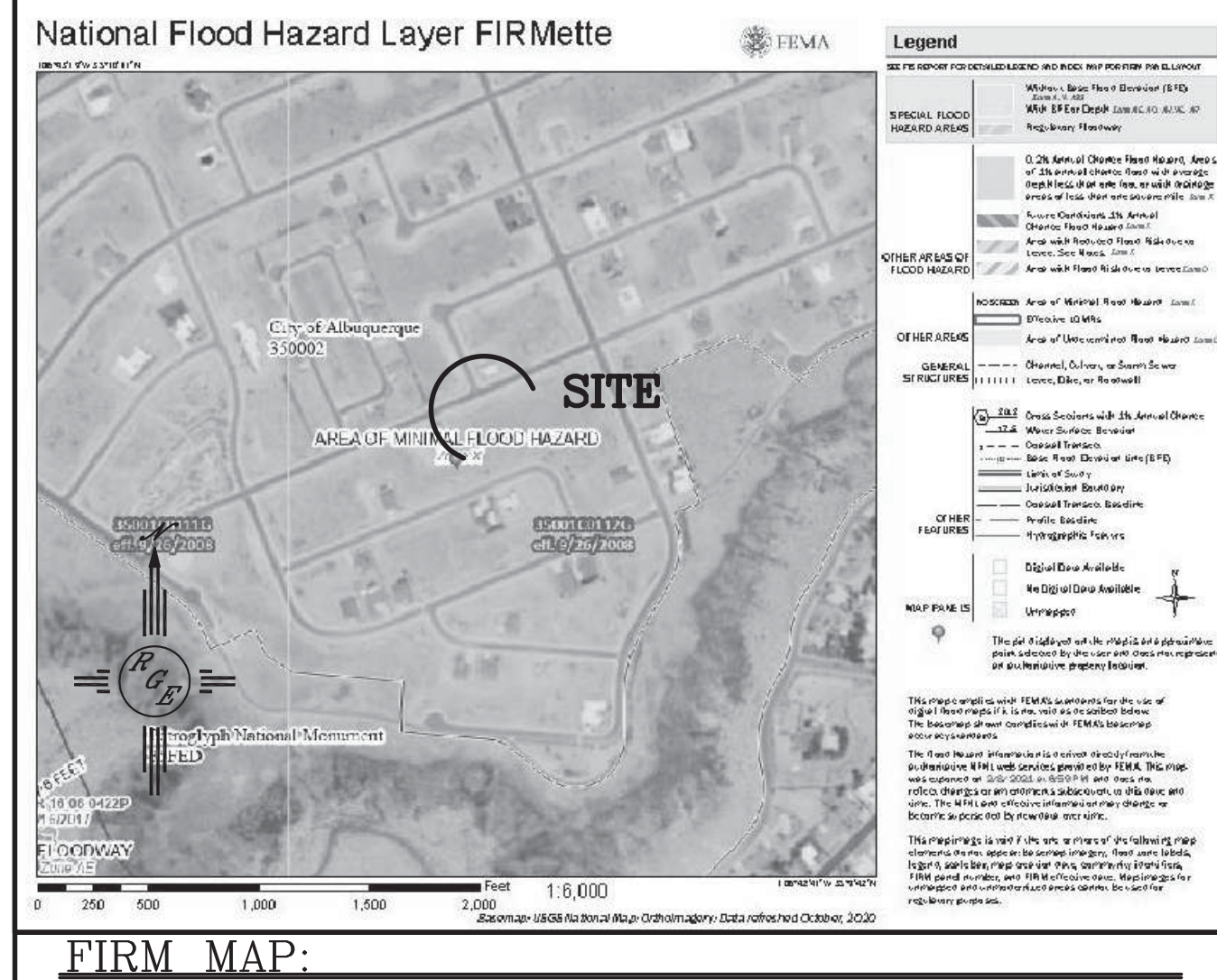
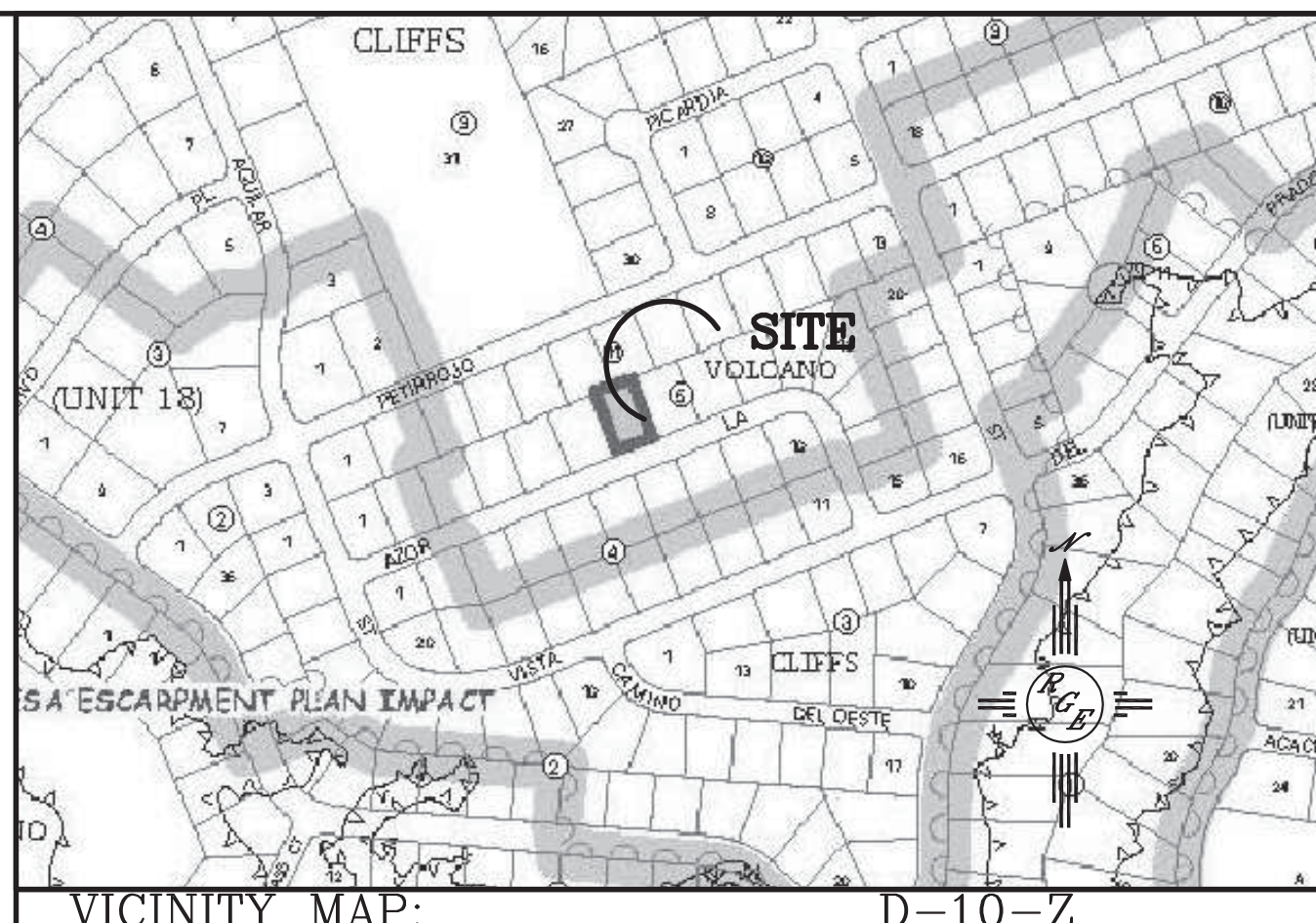
EROSION CONTROL NOTES:

- 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.

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 2/11/21



3/23/21



LEGAL DESCRIPTION:

LOT 7, BLOCK 5, VOLCANO CLIFFS UNIT 19

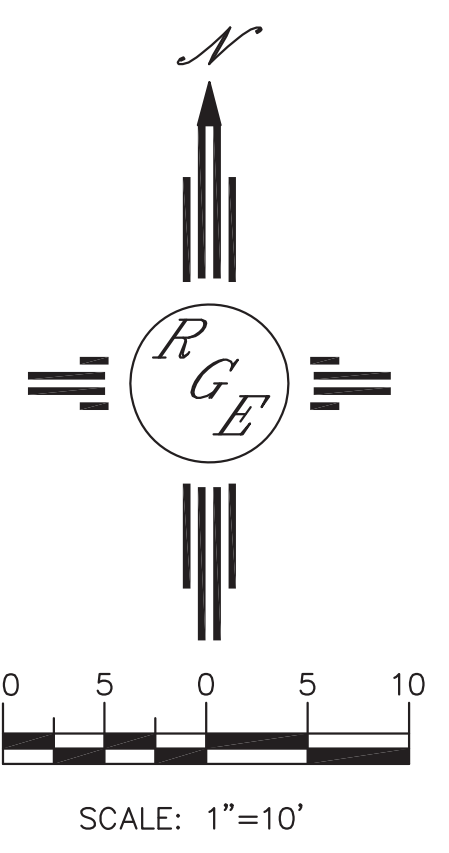
NOTES:

- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.

LEGEND

---XXXX---	EXISTING CONTOUR
- - - - -	EXISTING INDEX CONTOUR
-----	PROPOSED CONTOUR
-----	PROPOSED INDEX CONTOUR
-----	SLOPE TIE
+XXXX	EXISTING SPOT ELEVATION
+XXXX	PROPOSED SPOT ELEVATION
-----	BOUNDARY
-----	CENTERLINE
-----	RIGHT-OF-WAY
-----	PROPOSED 4" PVC SD
-----	GRAVEL LINED SWALE
=====	EXISTING CURB AND GUTTER
=====	PROPOSED CMU SCREEN WALL--DESIGN BY OTHERS

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.



 DAVID SOULE P.E. #14522	6531 AZOR GRADING AND DRAINAGE PLAN	DRAWN BY WCVJ DATE 1-26-21 210210015-LAYOUT-2-10-21
	 Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0998	SHEET # --- JOB # 21021008