

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

January 20, 2023

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

RE: **Volcano Cliffs Unit 2 SAD 227**  
**8024 Kibo Dr. NW**  
**Grading and Drainage Plan**  
**Engineers Stamp Date; 10/11/2022 (E10D122)**  
**Pad Certification Date; 1/10/2023**

Mr. Soule,

Based upon the information provided in your submittal received 1/11/2023, 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 Engineer, Hydrology  
Planning Department, Development Review Services

RR/TC  
File E10D122



# City of Albuquerque

Planning Department  
Development & Building Services Division

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

**Project Title:** 8024 KIBO **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** LOT 25 BLOCK 6 VOLCANO CLIFFS UNIT 5  
**City Address:** 8024 KIBO

**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

**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?

PRELIMINARY PLAT APPROVAL  
 SITE PLAN FOR SUB'D APPROVAL  
 SITE PLAN FOR BLDG. PERMIT APPROVAL  
 FINAL PLAT APPROVAL  
 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				Weighted E (ac-ft)	100-Year, 6-hr. Volume (ac-ft)	Flow (cfs)	24 hour Volume (ac-ft)
			A (%)	B (%)	C (%)	D (%)				
ALLOWED	10457.00	0.240	0%	24%	0.036	36%	0.086	1.362	0.027	0.76
PROPOSED	10457.00	0.240	0%	22%	0.053	33%	0.0792	1.482	0.030	0.79
COMPARISON										0.007

Equations:

Weighted E = Ea\*Aa + Eb\*Ab + Ec\*Ac + Ed\*Ad / (Total Area)

Volume = Weighted D \* Total Area

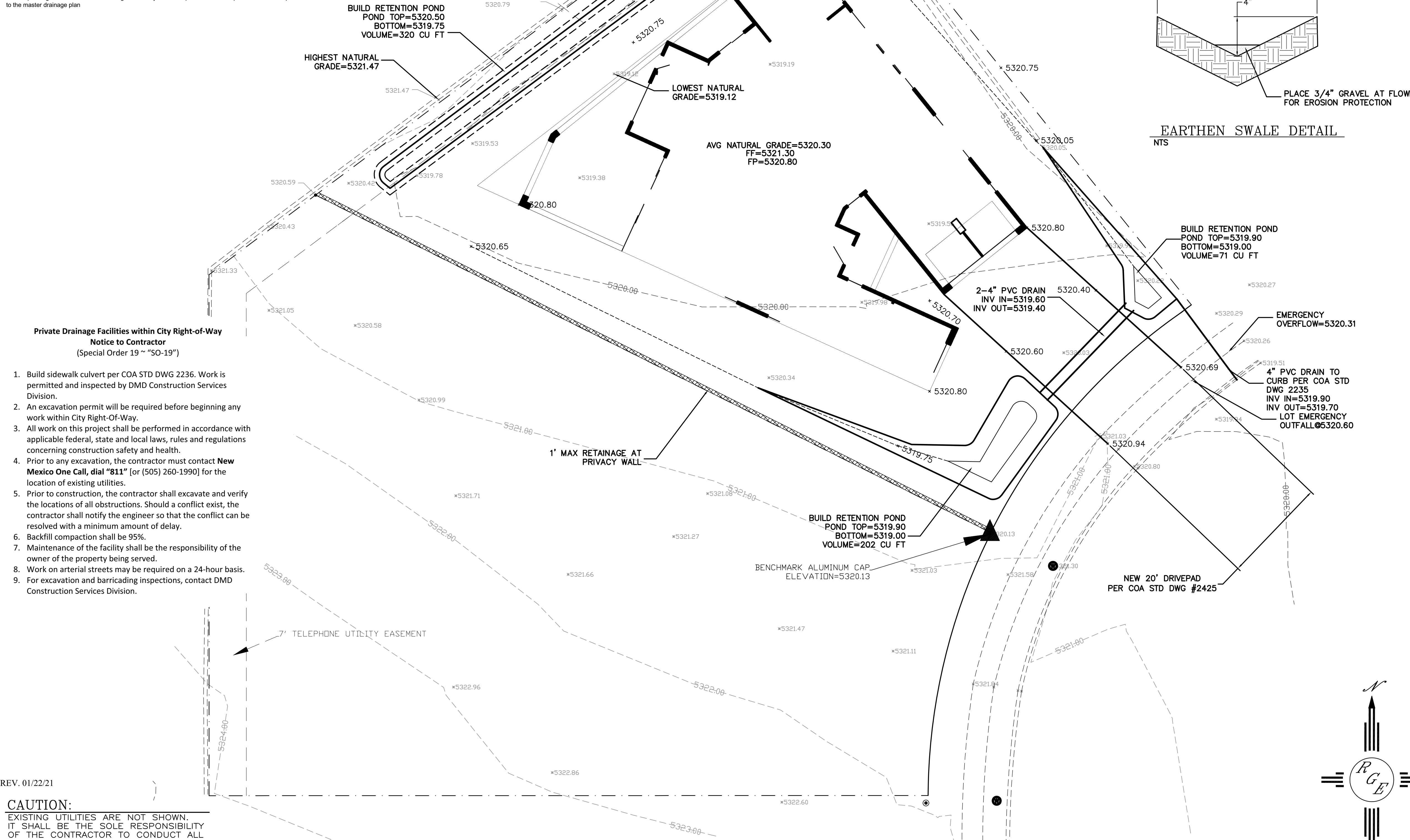
Flow = Qa \* Aa + Qb \* Ab + Qc \* Ac + Qd \* Ad

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 (CF)	PROVIDED (CF)
WATER QUALITY	0	593	593
FLOOD CONTROL	168	593	593

Narrative

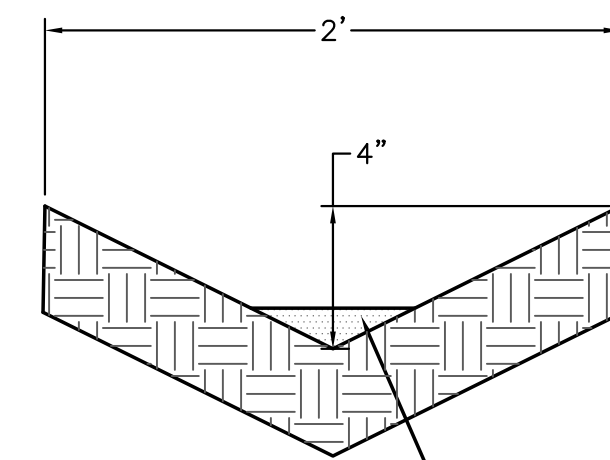
This site is within the SAD 227 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway to the east per the master drainage plan. The site does exceed the SAD 227 developed conditions assumptions, therefore ponding of 168CF is required. Due to high 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 does not impact this site. This plan is in conformance to the master drainage plan



1/10/23

EROSION CONTROL NOTES:

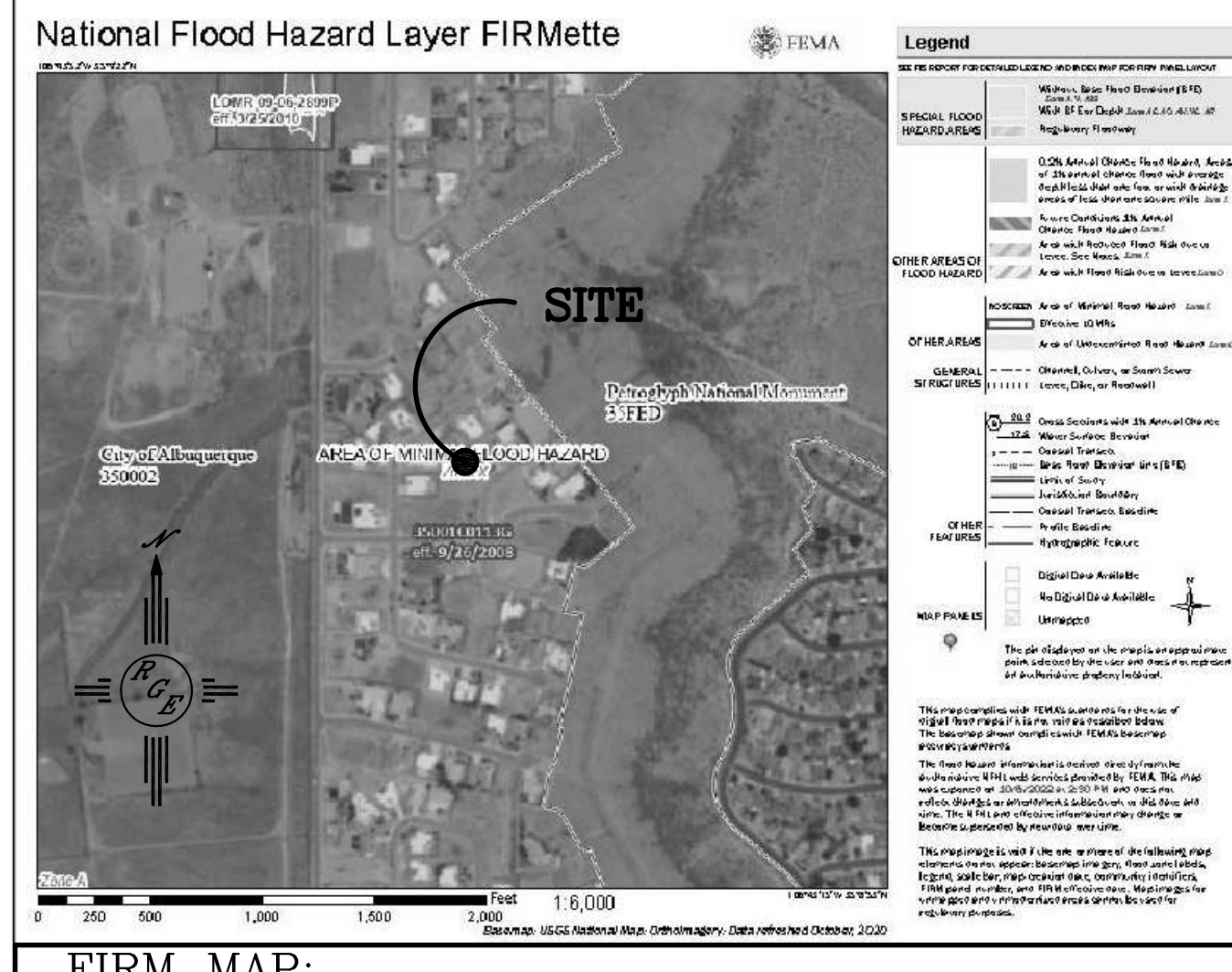
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES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



EARTHEN SWALE DETAIL

NTS

PLACE 3/4\"/>



LEGAL DESCRIPTION:  
 LOT 25 BLOCK 6 VOLCANO CLIFFS UNIT 2

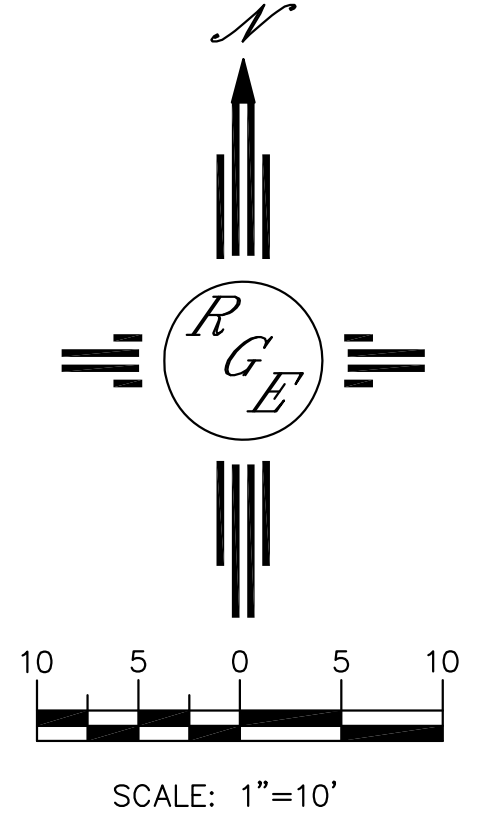
- NOTES:
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
  2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
  3. NO PONDING WITHIN 10' OF STRUCTURE.
  4. SURVEY INFORMATION PROVIDED BY B & C LAYOUT SERVICES UTILIZING NAVD 1988 DATUM
  5. A PAD ELEVATION CERTIFICATION IS REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT

LEGEND

---XXXX---	EXISTING CONTOUR
- - - - -	EXISTING INDEX CONTOUR
-----	PROPOSED CONTOUR
-----	PROPOSED INDEX CONTOUR
-----	SLOPE TIE
+XXXX	EXISTING SPOT ELEVATION
+XXXX	PROPOSED SPOT ELEVATION
-----	LOT LINE
-----	CENTERLINE
-----	RIGHT-OF-WAY
-----	PROPOSED 6\"/>
-----	GRAVEL LINED SWALE
=====	EXISTING CURB AND GUTTER
=====	PROPOSED CMU RETAINING WALL-DESIGN BY OTHERS

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.



 10/11/22 DAVID SOULE P.E. #14522	8024 KIBO	DRAWN BY WCVJ
	GRADING AND DRAINAGE PLAN	DATE 10-10-22
 Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 972-9398		20220070-LAYOUT-10-10-22
		SHEET #
		JOB # 20220022