

# CITY OF ALBUQUERQUE

Planning Department  
Brennon Williams, Director



Mayor Timothy M. Keller

May 5, 2021

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

RE: **Lot 18 Block 5 Volcano Cliffs Unit 18 SAD 228  
6624 Sujeto NW  
Grading and Drainage Plan  
Engineers Stamp Date 4/6/2021 (D10D003K18)  
Pad Certification Date 5/6/2021**

Dear Mr. Soule,

Based upon the information provided in your submittal received 5/6/2021, 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



# City of Albuquerque

Planning Department  
Development & Building Services Division

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

**Project Title:** 6624 SUJETO **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** LOT 18 BLOCK 5 Volcano Cliffs unit 18  
**City Address:** 6624 SUJETO

**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  
\_\_\_ PRELIMINARY PLAT APPROVAL  
\_\_\_ SITE PLAN FOR SUB'D APPROVAL  
\_\_\_ SITE PLAN FOR BLDG. PERMIT APPROVAL  
\_\_\_ FINAL PLAT APPROVAL

**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?

\_\_\_ 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)	100-Year, 6-hr.				Weighted E (ac-ft)	Volume (ac-ft)	Flow (cfs)				
			Treatment A (%)	Treatment B (%)	Treatment C (%)	Treatment D (%)							
ALLOWED	21133.00	0.485	0%	0	20%	0.097	46%	0.2232	34%	0.165	1.259	0.051	1.56
PROPOSED	21133.00	0.485	0%	0	20%	0.097	35%	0.1698	45%	0.218	1.367	0.055	1.64
COMPARISON												0.004	

**Equations:**  
 Weighted E =  $E_a \cdot A_a + E_b \cdot A_b + E_c \cdot A_c + E_d \cdot A_d$  / (Total Area)  
 Volume = Weighted D \* Total Area  
 Flow =  $Q_a \cdot A_a + Q_b \cdot A_b + Q_c \cdot A_c + Q_d \cdot A_d$   
 Where for 100-year, 6-hour storm- zone 1  
 E<sub>a</sub>= 0.44      Q<sub>a</sub>= 1.29  
 E<sub>b</sub>= 0.67      Q<sub>b</sub>= 2.03  
 E<sub>c</sub>= 0.99      Q<sub>c</sub>= 2.87  
 E<sub>d</sub>= 1.97      Q<sub>d</sub>= 4.37

ONSITE Conditions	FIRST FLUSH WATER QUALITY VOLUME REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY	0	1611
FLOOD CONTROL	190	1611

**Narrative**  
 This site is within the SAD 226 Master Drainage plan boundaries. The site is to maintain existing patterns and drain the majority of the house to the front and the remainder will drain to the west where it overflows to the historical outfall. We are ponding 1611 CF for water harvesting quality purposes there is no upland flow. This plan does exceed the allowed impervious area therefore we are required to retain .  
 This plan is in conformance to the master drainage plan

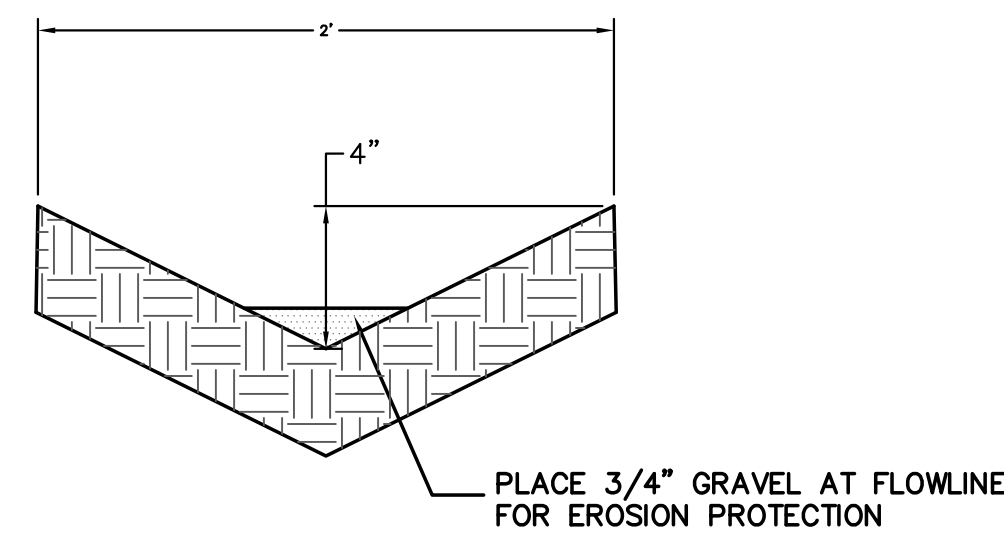
I, DAVID SOULE HAVE PERSONALLY INSPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 4/6/21



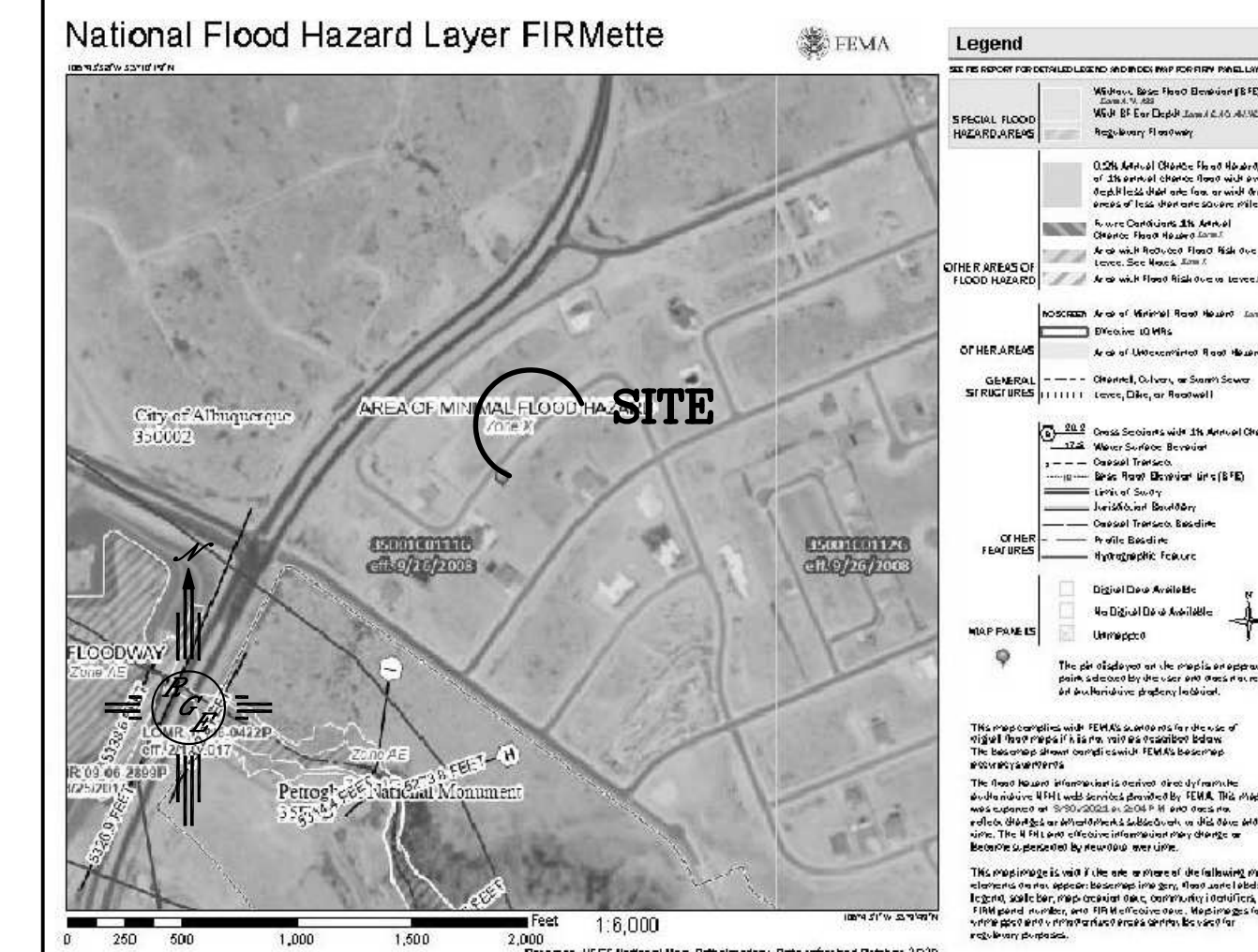
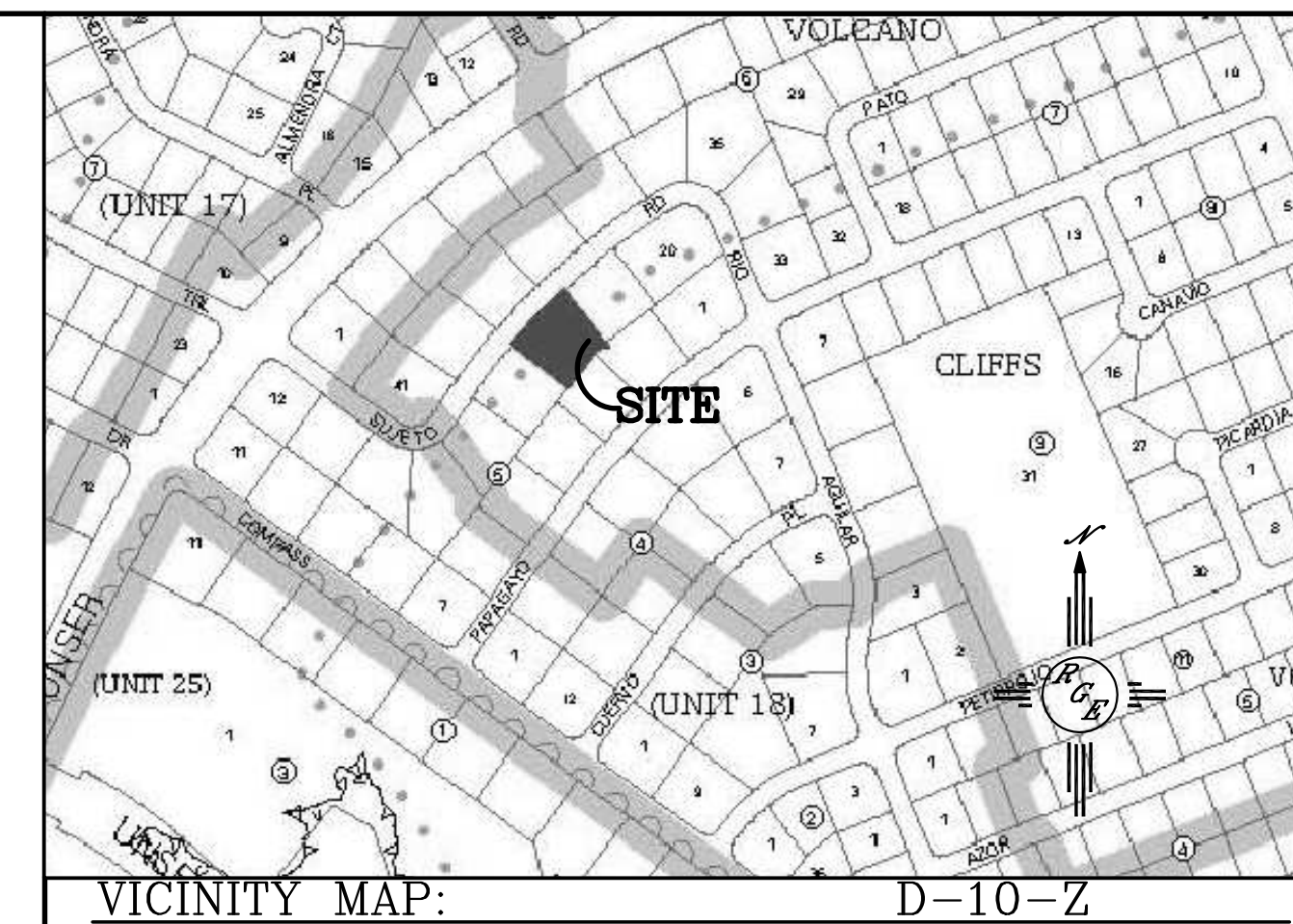
5/6/21

**EROSION CONTROL NOTES:**

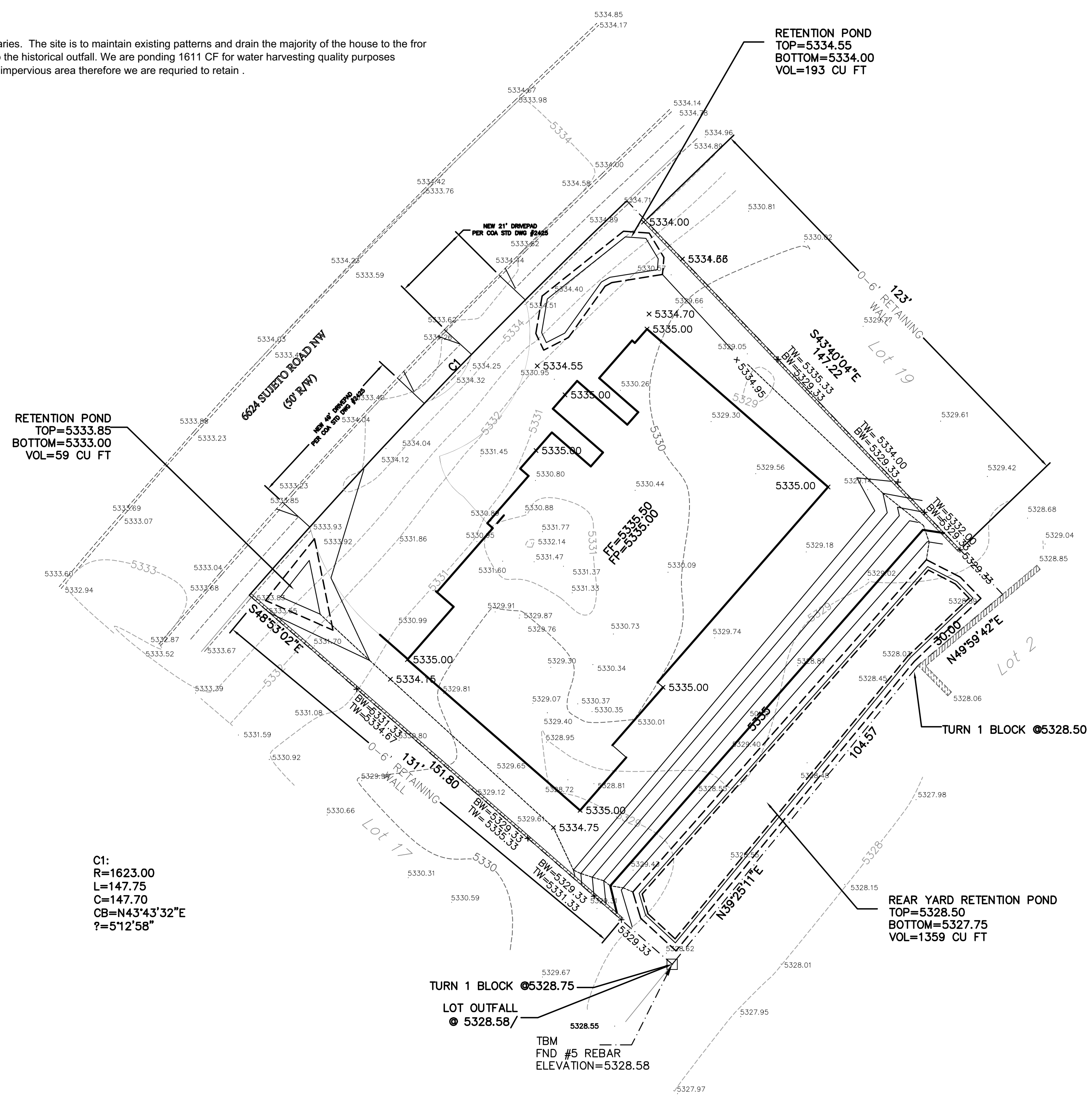
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND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



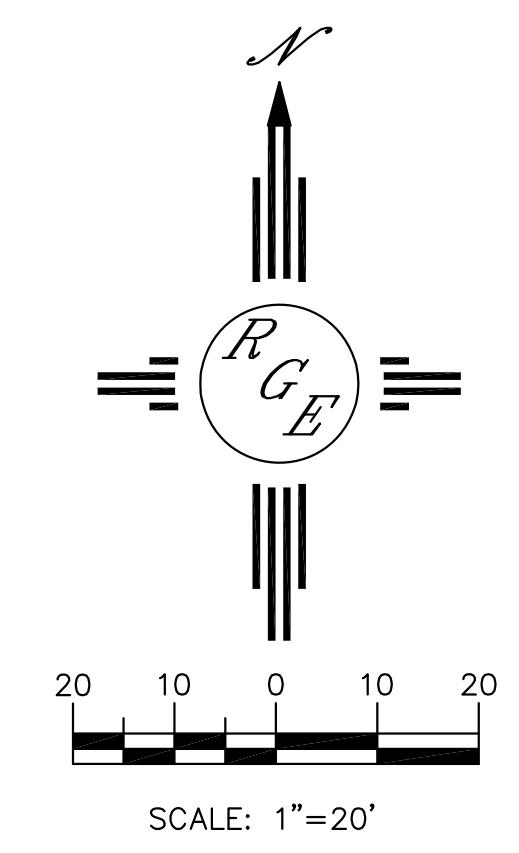
**EARTHEN SWALE DETAIL**  
 NTS



**FIRM MAP:**



**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.



**LEGAL DESCRIPTION:**  
 LOT 18, BLOCK 5, VOLCANO CLIFFS UNIT 18

**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.

**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 4" PVC SD
-----	GRAVEL LINED SWALE
-----	EXISTING CURB AND GUTTER
-----	PROPOSED CMU RETAINING WALL-DESIGN BY OTHERS

 ENGINEER'S SEAL DAVID SOULE P.E. #14522	6624 SUJETO	DRAWN BY WCVJ
	GRADING AND DRAINAGE PLAN	DATE 4-02-21
	 Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 972-9998	210210039-LAYOUT-4-02-21 SHEET # JOB # 21021039
4/6/21		