

# CITY OF ALBUQUERQUE

Planning Department  
Brennon Williams, Director



Mayor Timothy M. Keller

February 12, 2020

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

RE: **Lot 13 Block 10, Volcano Cliffs, Unit 22, SAD 228  
6300 Petirrojo NW  
Grading and Drainage Plan  
Engineers Stamp Date 2/10/20 (D10D003F13A)**

Dear Mr. Soule,

Based upon the information provided in your submittal received 2/10/20, 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.**

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 the grading and drainage plan will change and will need to be resubmitted.

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 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Ernest Armijo, P.E.  
Principal Engineer, Hydrology  
Planning Department

RR/SB  
C: File D10D003F13A



# City of Albuquerque

Planning Department  
Development & Building Services Division

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

Project Title: 6300 PETIRROJO Building Permit #: \_\_\_\_\_ Hydrology File #: \_\_\_\_\_

DRB#: \_\_\_\_\_ EPC#: \_\_\_\_\_ Work Order#: \_\_\_\_\_

Legal Description: LOT 13 BLOCK 10 VOLCANO CLIFFS UNIT 22

City Address: 6300 PETIRROJO

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

\*foot print changed

DATE SUBMITTED: \_\_\_\_\_ By: \_\_\_\_\_

COA STAFF: \_\_\_\_\_

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_

**PETIRROJO** Weighted E Method

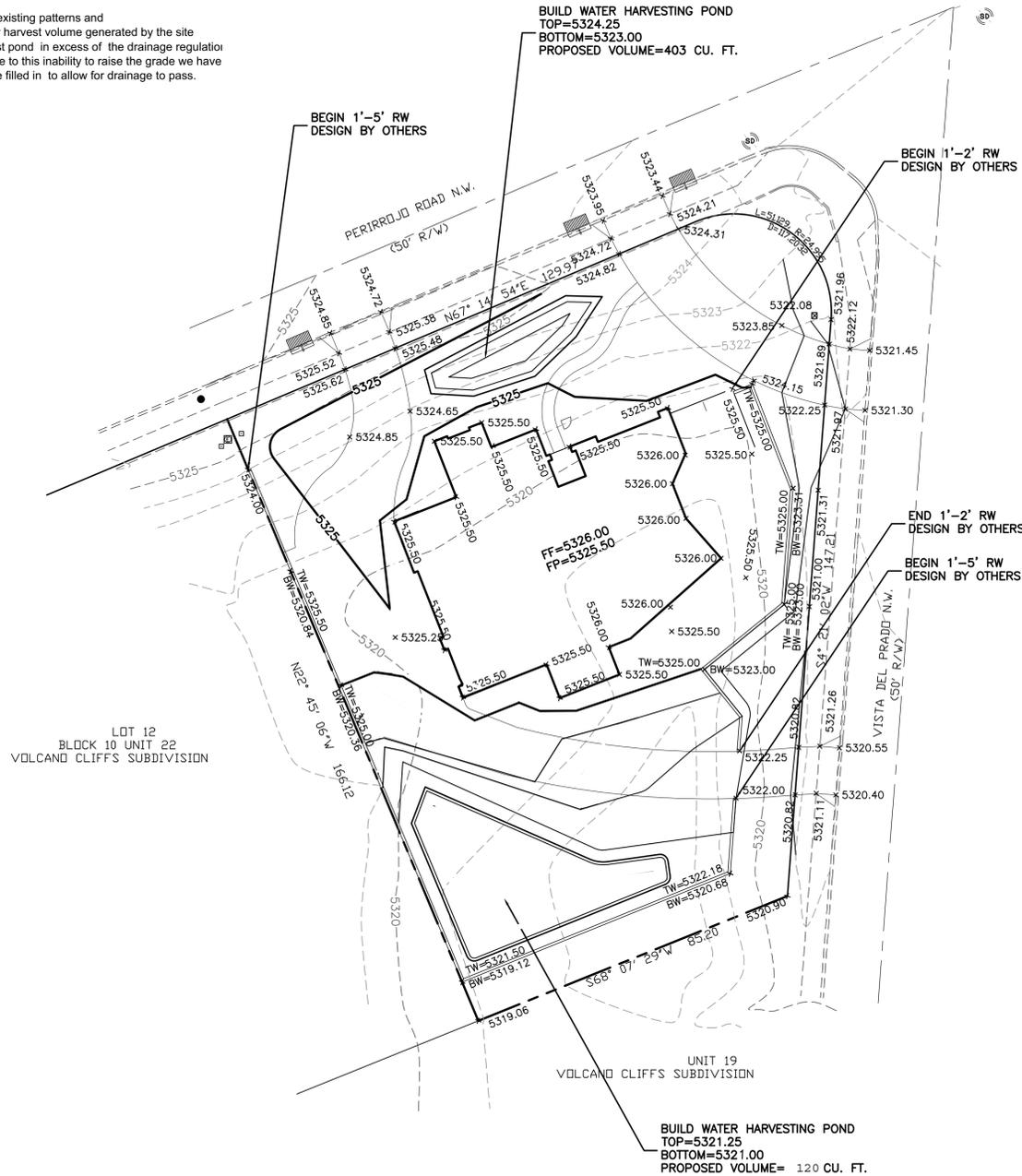
| Basin          | Area (sf) | Area (acres) | Treatment A |           |           |           | Treatment B |           |           |           | Treatment C |           |           |           | Treatment D |                |            |  | 100-Year, 6-hr. |  |
|----------------|-----------|--------------|-------------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-------------|----------------|------------|--|-----------------|--|
|                |           |              | % (acres)   | % (acres) | % (acres) | % (acres) | % (acres)   | % (acres) | % (acres) | % (acres) | % (acres)   | % (acres) | % (acres) | % (acres) | % (acres)   | Volume (ac-ft) | Flow (cfs) |  |                 |  |
| NATIVE ALLOWED | 21052.00  | 0.483        | 80%         | 0.387     | 10%       | 0.048     | 10%         | 0.0483    | 0%        | 0.000     | 0.518       | 0.021     | 0.74      |           |             |                |            |  |                 |  |
| PROPOSED       | 21052.00  | 0.483        | 0%          | 0         | 10%       | 0.048     | 40%         | 0.1933    | 50%       | 0.242     | 1.448       | 0.058     | 1.71      |           |             |                |            |  |                 |  |
| total          | 21052.00  | 0.483        | 0%          | 0         | 28%       | 0.135     | 30%         | 0.145     | 42%       | 0.203     | 1.312       | 0.053     | 1.58      |           |             |                |            |  |                 |  |

**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= 0.44 Qa= 1.29  
 Eb= 0.67 Qb= 2.03  
 Ec= 0.99 Qc= 2.87  
 Ed= 1.97 Qd= 4.37

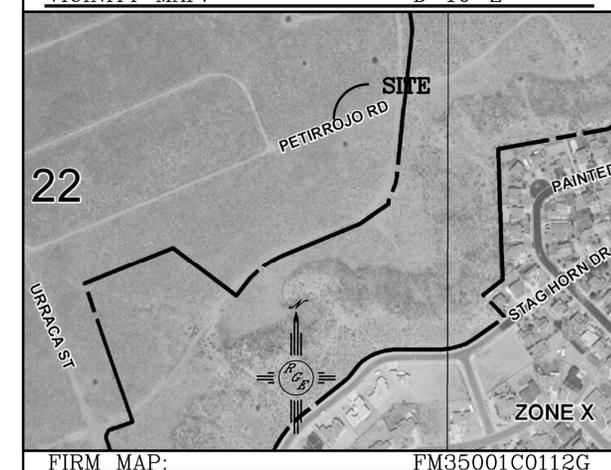
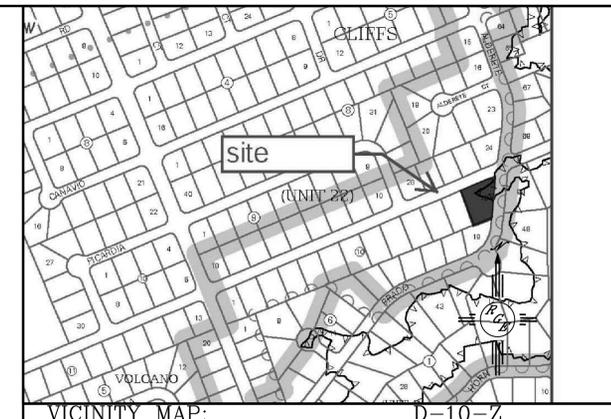
| ONSITE Conditions                              | PROVIDED |
|--|----------|
| FIRST FLUSH WATER QUALITY VOLUME REQUIRED (CF) | 523      |
| WATER QUALITY                                  | 251      |

**Narrative**  
 This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent property per the master drainage plan. We are ponding the water harvest volume generated by the site we are allowing the upland flow to pass thru the site. This plan has a shallow water harvest pond in excess of the drainage regulator. The upland flow is such that rear will not drain without grading on adjacent properties. Due to this inability to raise the grade we have placed wall to allow for upland flow to enter the site. In ultimate conditions this area can be filled in to allow for drainage to pass. 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.



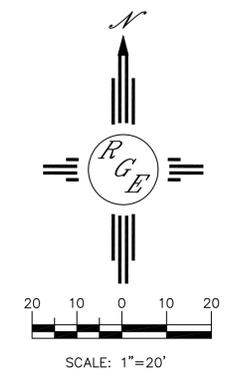
**LEGAL DESCRIPTION:**  
 LOT 10A, BLOCK 2 VOLCANO CLIFFS, UNIT - 27

- 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.
  - A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF PERMIT
  - ALL PERIMETER WALLS SHALL BE PERMITTED SEPARATELY

| Point # | Elevation | Northing   | Easting    | Description |
|---------|-----------|------------|------------|-------------|
| 1       | 5325.88   | 1516849.03 | 1502605.42 | CHIS X      |
| 2       | 5326.90   | 1516727.58 | 1502748.74 | 4RBC 11463  |
| 3       | 5319.06   | 1516695.83 | 1502669.67 | 4RBC 11463  |
| 4       | 5321.96   | 1516874.36 | 1502759.90 | 4RBC 11463  |
| 5       | 5324.21   | 1516899.29 | 1502725.27 | CHIS X      |
| 1101    | 5323.63   | 1516881.63 | 1502726.10 | 4RBC 11463  |

| 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             |
| =====      | EXISTING CURB AND GUTTER |
| =====      | PROPOSED CMU SCREEN WALL |

**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.



|                         |  |                      |
|-------------------------|--|----------------------|
| ENGINEER'S SEAL         | 6300 PETIRROJO   | DRAWN BY WCVJ        |
|                         | <b>GRADING AND DRAINAGE PLAN</b>   | DATE 2-04-20         |
|                         |  | 21721-LAYOUT-3-20-17 |
| 2/10/20                 | <br>Rio Grande Engineering<br>1606 CENTRAL AVENUE SE<br>SUITE 201<br>ALBUQUERQUE, NM 87106<br>(505) 872-0988 | SHEET #              |
| DAVID SOULE P.E. #14522 |  | JOB # 21721          |