

# CITY OF ALBUQUERQUE

Planning Department  
Brennon Williams, Director



Mayor Timothy M. Keller

December 18, 2020

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

RE: **Lot 2 Block 6 Volcano Cliffs Unit 18 SAD 228**  
**7828 Urraca St. NW**  
**Grading and Drainage Plan**  
**Engineers Stamp Date 10/1/2020 (D10D003F22)**  
**Pad Certification Date 12/9/2020**

Dear Mr. Soule,

Based upon the information provided in your submittal received 12/17/2020, this plan is approved for Building Permit.

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.

**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.**

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist of this plan will be 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, Planning Dept.  
Development Review Services

PO Box 1293

Albuquerque

NM 87103

[www.cabq.gov](http://www.cabq.gov)



# City of Albuquerque

Planning Department  
Development & Building Services Division

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

Project Title: 7828 Urraca Building Permit #: \_\_\_\_\_ Hydrology File #: \_\_\_\_\_

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

Legal Description: LOT 2, Block 6 VOLCANO CLIFFS UNIT 18

City Address: 7828 Urraca

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 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?

IS THIS A RESUBMITTAL?: ☒ Yes ☐ No

### 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  
  
☐ 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) \_\_\_\_\_

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

COA STAFF:

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

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

Weighted E Method

| Basin      | Area<br>(sf) | Area<br>(acres) | Treatment A  |              | Treatment B  |              | Treatment C  |              | Treatment D  |              | 100-Year, 6-hr.       |                   |             | 24 hour           |
|------------|--------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------------|-------------------|-------------|-------------------|
|            |              |                 | %<br>(acres) | %<br>(acres) | %<br>(acres) | %<br>(acres) | %<br>(acres) | %<br>(acres) | %<br>(acres) | %<br>(acres) | Weighted E<br>(ac-ft) | Volume<br>(ac-ft) | Flow<br>cfs | Volume<br>(ac-ft) |
| ALLOWED    | 11738.00     | 0.269           | 0%           | 0            | 20%          | 0.054        | 46%          | 0.124        | 34%          | 0.092        | 1.259                 | 0.028             | 0.87        | 0.032             |
| PROPOSED   | 11738.00     | 0.269           | 0%           | 0            | 20%          | 0.054        | 36%          | 0.097        | 44%          | 0.119        | 1.357                 | 0.030             | 0.91        | 0.035             |
| COMPARISON |              |                 |              |              |              |              |              |              |              |              |                       | 0.002             |             | 0.003             |

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

| FIRST FLUSH WATER QUALITY VOLUME | REQUIRED<br>(CF) | PROVIDED<br>(CF) |
|----------------------------------|------------------|------------------|
| WATER QUALITY                    | 0                | 154              |
| FLOOD CONTROL                    | 141              | 154              |

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain the majority of the improvements to the adjacent roadway with the rear portion ponding and overflowing to open space over an exiting fence. The site does exceed the SAD 228 developed conditions assumptions therefore ponding is required. No upland flow enters the site. Due to height restrictions, the pad elevation is placed as low as practical. This plan is in conformance to the master drainage plan.

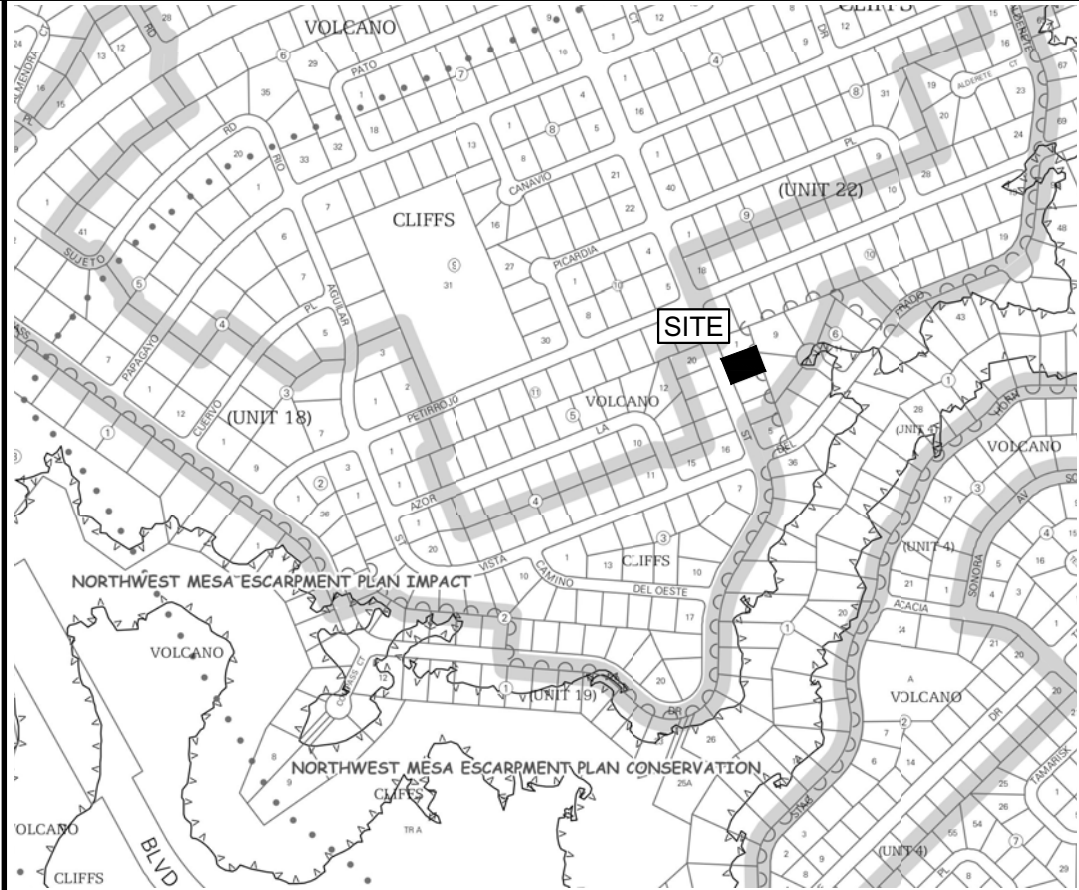
I, DAVID SOULE HAVE PERSONALLY INPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 10/1/20



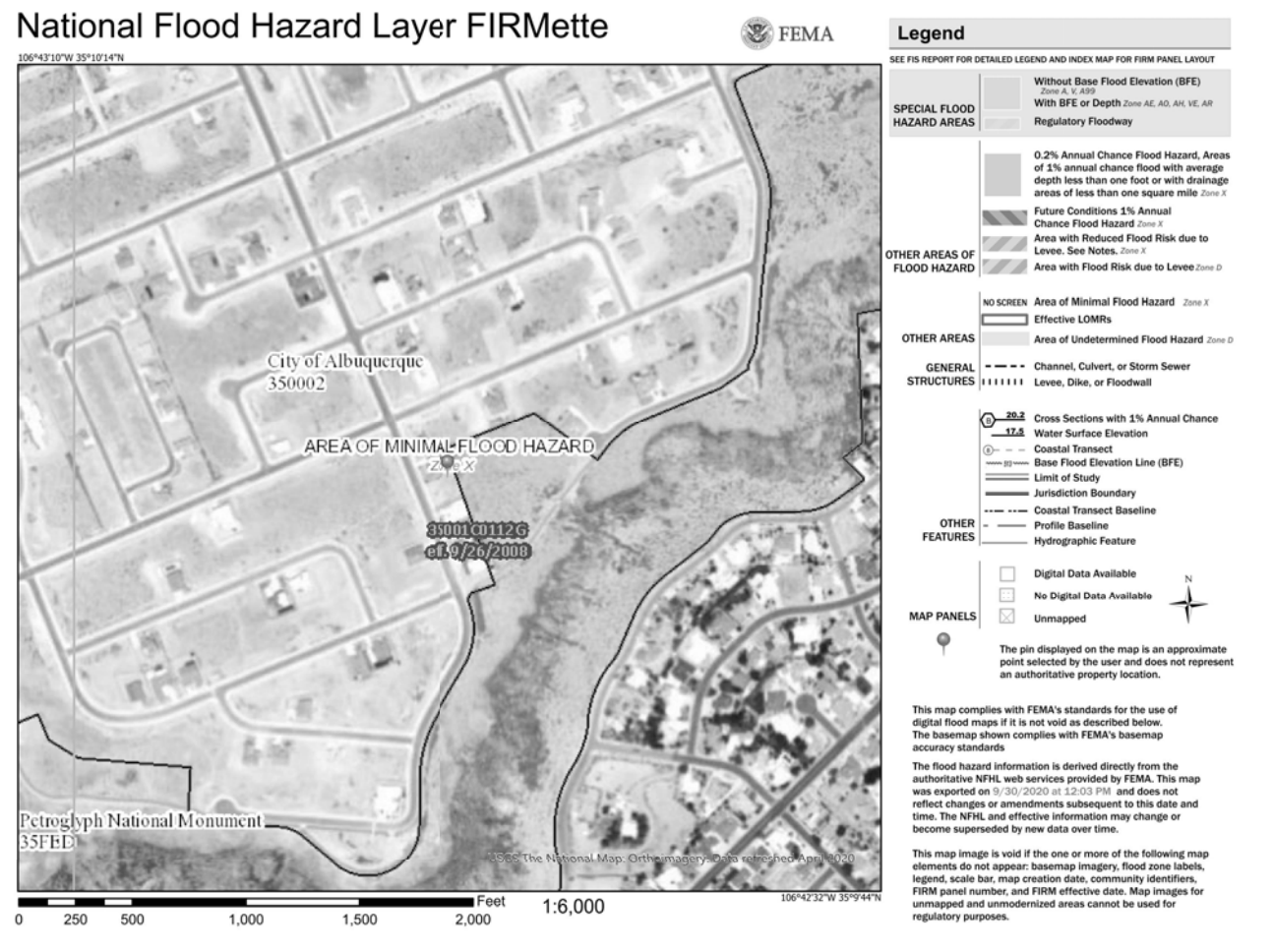
12/9/20

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: D-10-Z



FIRM MAP:

LEGAL DESCRIPTION:

LOT 2 BLOCK 6 UNIT 18 VOLCANO CLIFFS  
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

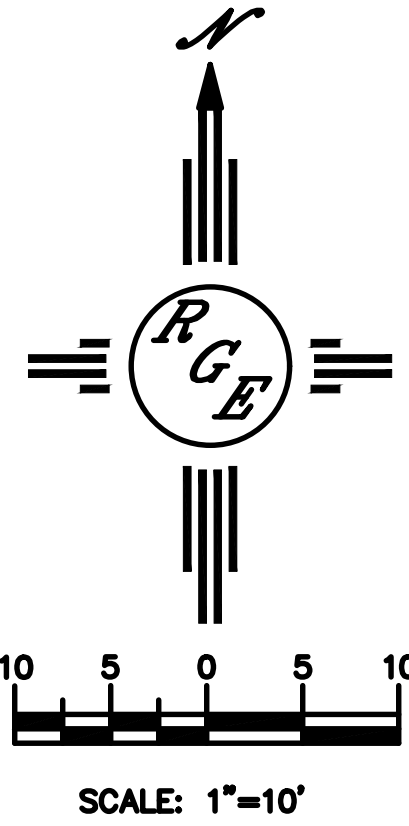
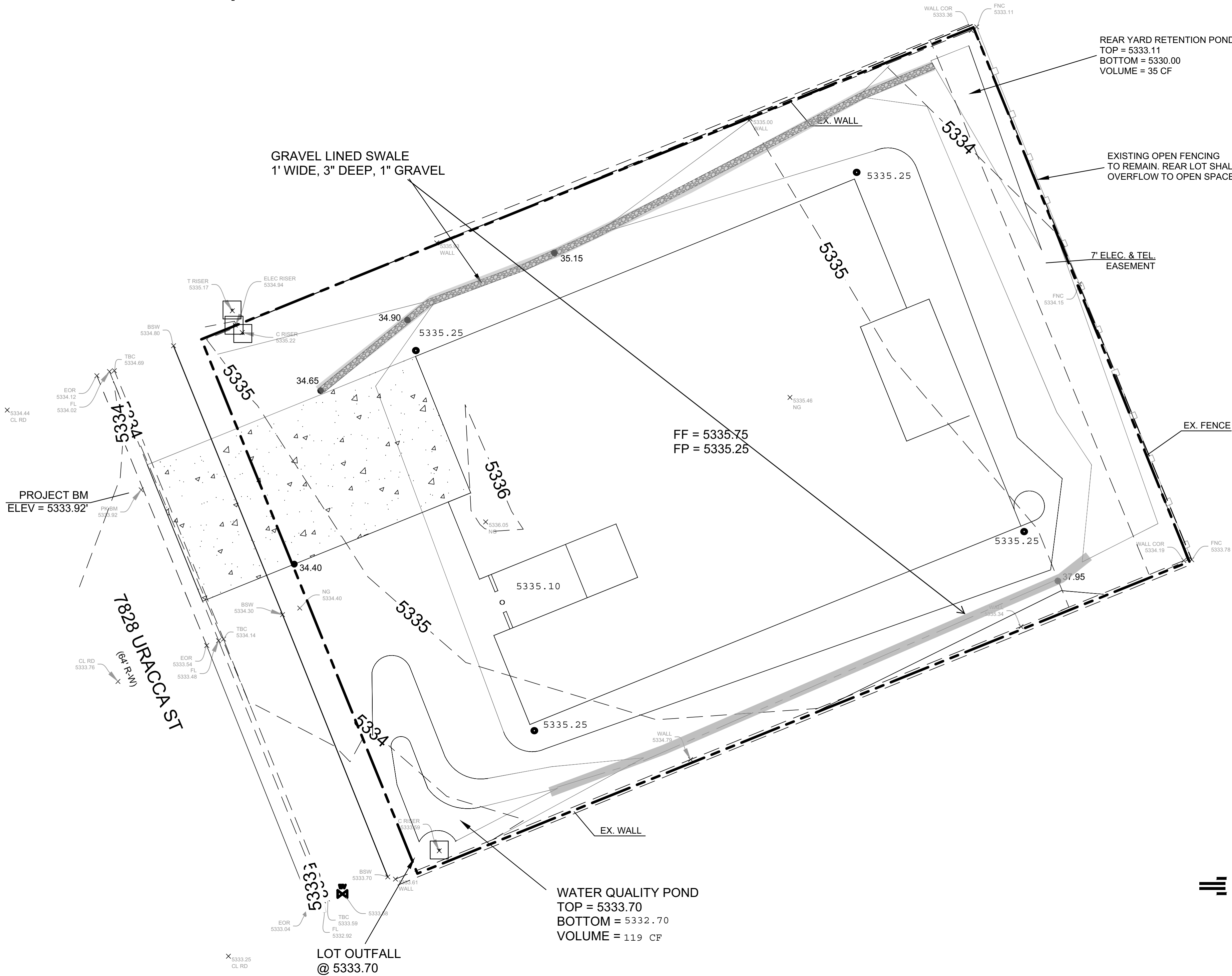
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
3. ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
5. 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     |
| + XXXXX        | EXISTING SPOT ELEVATION    |
| ● XXXX         | PROPOSED SPOT ELEVATION    |
| -----          | BOUNDARY                   |
| ----->-----    | PROPOSED EARTHEN SWALE     |
| -----          | ADJACENT BOUNDARY          |
| =====          | EXISTING CURB AND GUTTER   |
| =====          | PROPOSED CONCRETE DRIVEWAY |
| =====          | PROPOSED GRAVEL SWALE      |

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            | LOT 2 BLK 6 UN 18 VC<br>7828 URACCA ST                                             | DRAWN BY<br>DEM          |
|                            | GRADING AND DRAINAGE PLAN                                                          | DATE<br>9-30-20          |
| DAVID SOULE<br>P.E. #14522 | <br>1608 CENTRAL AVENUE SE<br>SUITE 201<br>ALBUQUERQUE, NM 87106<br>(505) 872-0999 | LOT 2 BLK 6 UN 18 VC.DWG |
|                            |                                                                                    | SHEET #<br>C1            |
|                            |                                                                                    | JOB #                    |