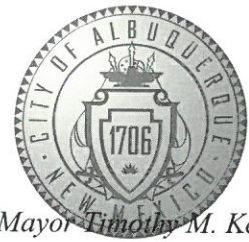


CITY OF ALBUQUERQUE

Planning Department



Mayor Timothy M. Keller

July 8, 2019

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

RE: **Lot 7 Block 8 Volcano Cliffs Unit 18 SAD 228**
6404 Canavio Rd. NW
Grading and Drainage Plan
Engineers Stamp Date 3/11/19 (D10D003E7)
Pad Certification Date 7/2/19

Dear Mr. Soule,

Based upon the information provided in your submittal received 7/2/19, 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 dated 3/11/19 and Pad Certification Date 7/2/19.

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,

James D. Hughes, P.E.
Principal Engineer, Hydrology
Planning Department

RR/JDH
C: File D10D003E7



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 6324 CANAVIO **Building Permit #:** _____ **Hydrology File #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: LOT 9 , BLOCK 8 VOLCANO CLIFFS UNIT 22

City Address: _____

Applicant: SILVERTON HOMES **Contact:** _____

Address: 6324 CANAVIO

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 (sf) | Area (acres) | Treatment A % (acres) | Treatment B % (acres) | Treatment C % (acres) | Treatment D % (acres) | Weighted E (ac-ft) | 100-Year, 6-hr. | |
| | | | | | | | | Volume (ac-ft) | Flow cfs |
| ALLOWED | 12050.00 | 0.277 | 0% | 0 | 20% 0.055 | 46% 0.1272 | 34% 0.094 | 1.259 | 0.029 |
| PROPOSED | 12050.00 | 0.277 | 0% | 0 | 20% 0.055 | 34% 0.0941 | 46% 0.127 | 1.377 | 0.032 |
| COMPARISON | | | | | | | | 0.003 | 0.89 |

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 (CF) | PROVIDED (CF) |
|-------------------|--|---------------|
| WATER QUALITY | 157 | 157 |
| FLOOD CONTROL | 118 | 157 |

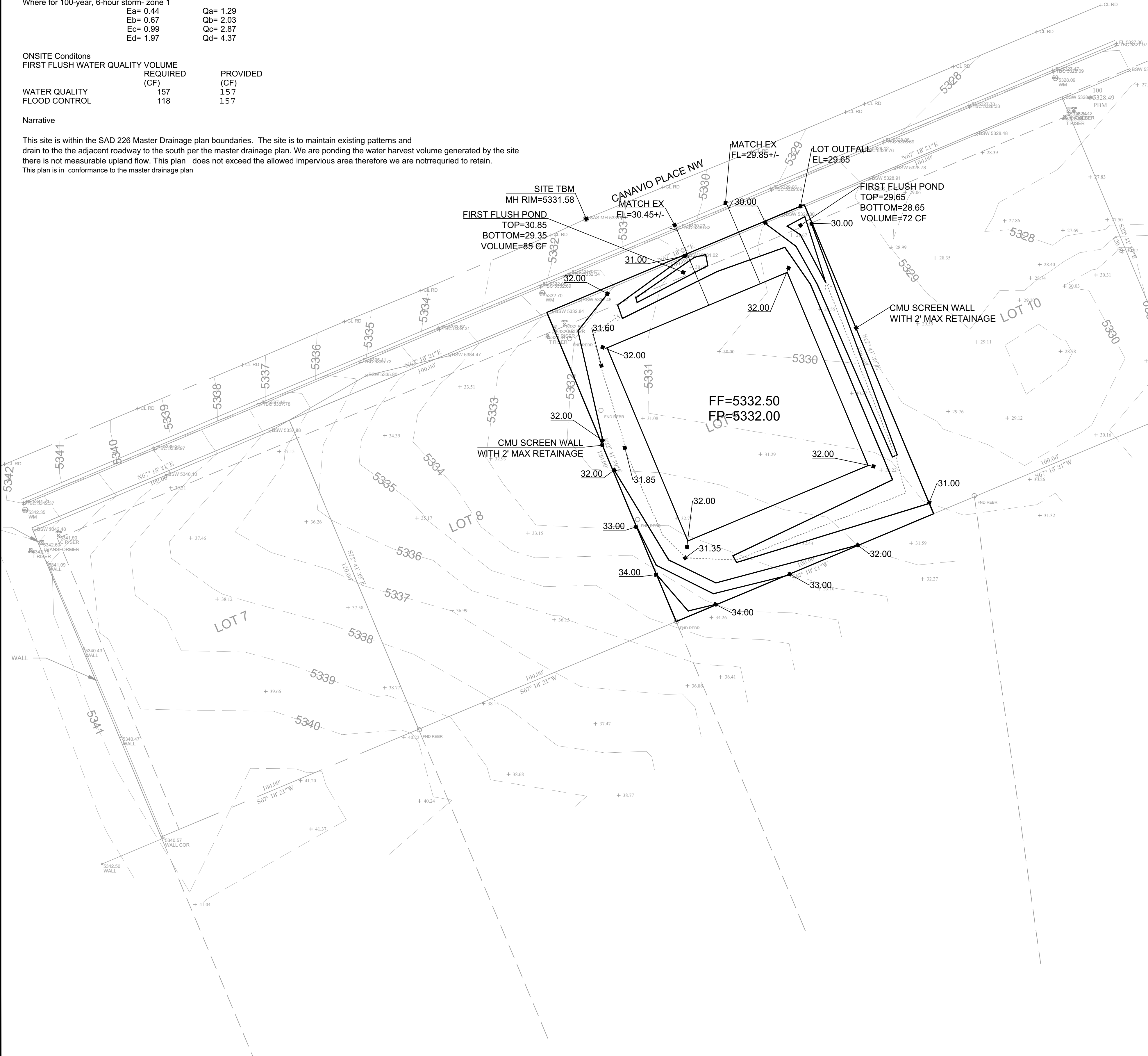
Narrative

This site is within the SAD 226 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the the adjacent roadway to the south per the master drainage plan. We are ponding the water harvest volume generated by the site there is not measurable upland flow. This plan does not exceed the allowed impervious area therefore we are notrequired to retain. 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 3/11/19

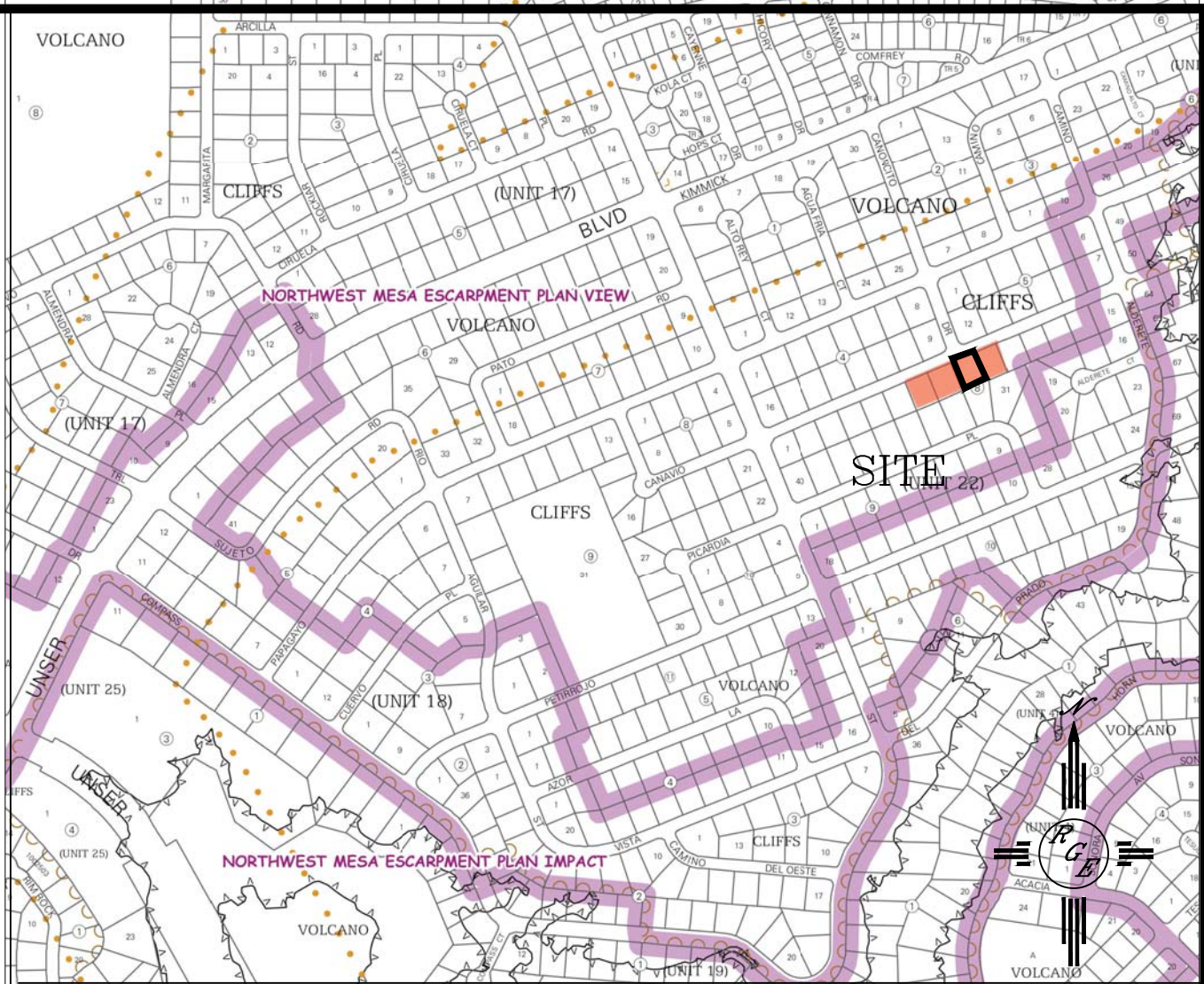


7/2/19



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 (CITY) ACCEPTANCE OF ANY PROJECT.



VICINITY MAP:



FIRM MAP:

LEGAL DESCRIPTION:

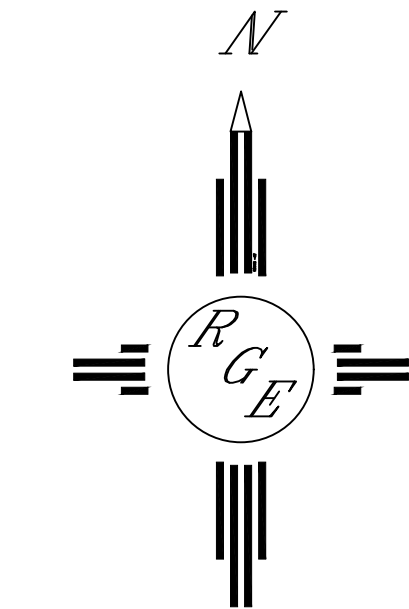
LOT 9, BLOCK 8, UNIT 22, VOLCANO CLIFFS SUBDIVISION

NOTES:

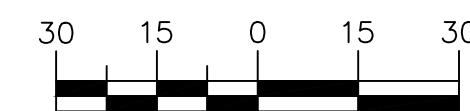
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY CSTI DATED MARCH 2019
3. ALL DISTURBED AREAS MUST BE RESEED OR LANDSCAPED PRIOR TO FINAL C.O.. ALL AREAS OUTSIDE THE BUILDING ENVELOPE MUST BE RESEED WITH NATIVE MIX
4. DUE TO EXISTING TOPOGRAPHY AND UNDEVELOPED NATURE OF THE DOWN STEAM AREA, PERIODIC MAINTENANCE OF PONDS AND SWALES ARE REQUIRED.
5. ALL WALLS SHALL BE PERMITTED SEPARATELY AND MUST CONFORM TO THIS PLAN
6. PAD ELEVATION CERTIFICATION REQUIRED PRIOR TO PERMIT

LEGEND

- 5411----- EXISTING CONTOUR
- 5410----- EXISTING INDEX CONTOUR
- 5411----- PROPOSED CONTOUR
- 5410----- PROPOSED INDEX CONTOUR
- 100.00 PROPOSED FLOWLINE ELEVATIONS
- PROPERTY LINE
- DRAINAGE FLOW LINE



GRAPHIC SCALE



SCALE: 1"=30'

| | | |
|--|--|-----------------|
| ENGINEER'S SEAL | LOT 9, BLOCK 8, UNIT 11 VOLCANO CLIFFS | DRAWN BY JDC |
| DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER | | DATE 03-09-2019 |
| 3/11/19 | Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999 | SHEET # 1 OF 1 |
| DAVID SOULE P.E. #14522 | | JOB # |