

CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



Mayor Richard J. Berry

June 9, 2017

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

**RE: Lot 12 Block 2 Unit 19 Volcano Cliffs SAD 228
6520 Camino Del Oeste NW
Grading and Drainage Plan
Engineers Stamp Date 4/11/17 (D10D003G12)
Pad Certification Dated 6/2/17**

Dear Mr. Soule,

Based upon the information provided in your submittal received 6/7/17, this plan is approved for Building Permit.

Please inform the builder to attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology. Also, notify the owner/contractor that a separate permit for any fence is required, and this is the plan to be used for the placement of the fence.

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/JH
C: File



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: _____ **Building Permit #:** _____ **City Drainage #:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: _____
City Address: _____

Engineering Firm: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Owner: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Architect: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Other Contact: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Check all that Apply:

DEPARTMENT:

- HYDROLOGY/ DRAINAGE
- TRAFFIC/ TRANSPORTATION
- MS4/ EROSION & SEDIMENT CONTROL

CHECK 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
- PRE-DESIGN MEETING
- OTHER (SPECIFY) _____

TYPE OF SUBMITTAL:

- ENGINEER/ ARCHITECT CERTIFICATION
- CONCEPTUAL G & D PLAN
- GRADING PLAN
- DRAINAGE MASTER PLAN
- DRAINAGE REPORT
- CLOMR/LOMR
- TRAFFIC CIRCULATION LAYOUT (TCL)
- TRAFFIC IMPACT STUDY (TIS)
- EROSION & SEDIMENT CONTROL PLAN (ESC)
- OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: Yes No

DATE SUBMITTED: _____ By: _____

COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____

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) | Weighted | Volume | Flow | | | | |
| UPLAND ALLOWED | 27131.00 | 0.623 | 0% | 0 | 10% | 0.062 | 40% | 0.2491 | 50% | 0.311 | 1.448 | 0.075 | 2.20 | | | | | | | | |
| PROPOSED | 13065.00 | 0.300 | 0% | 0 | 10% | 0.030 | 40% | 0.12 | 50% | 0.150 | 1.448 | 0.036 | 1.06 | | | | | | | | |
| total | 13606.00 | 0.312 | 0% | 0 | 28% | 0.087 | 30% | 0.0937 | 42% | 0.131 | 1.312 | 0.034 | 1.02 | | | | | | | | |

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 | REQUIRED (CF) | PROVIDED (CF) |
|----------------------------------|---------------|---------------|
| FIRST FLUSH WATER QUALITY VOLUME | | |
| WATER QUALITY | 162 | 559 |

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent city right of way as required by the city. We are ponding the water harvest volume generated by the site. This site will discharge to the public street. This plan has shallow water harvest ponds in excess of the drainage regulations. This plan is in conformance to the master drainage plan.

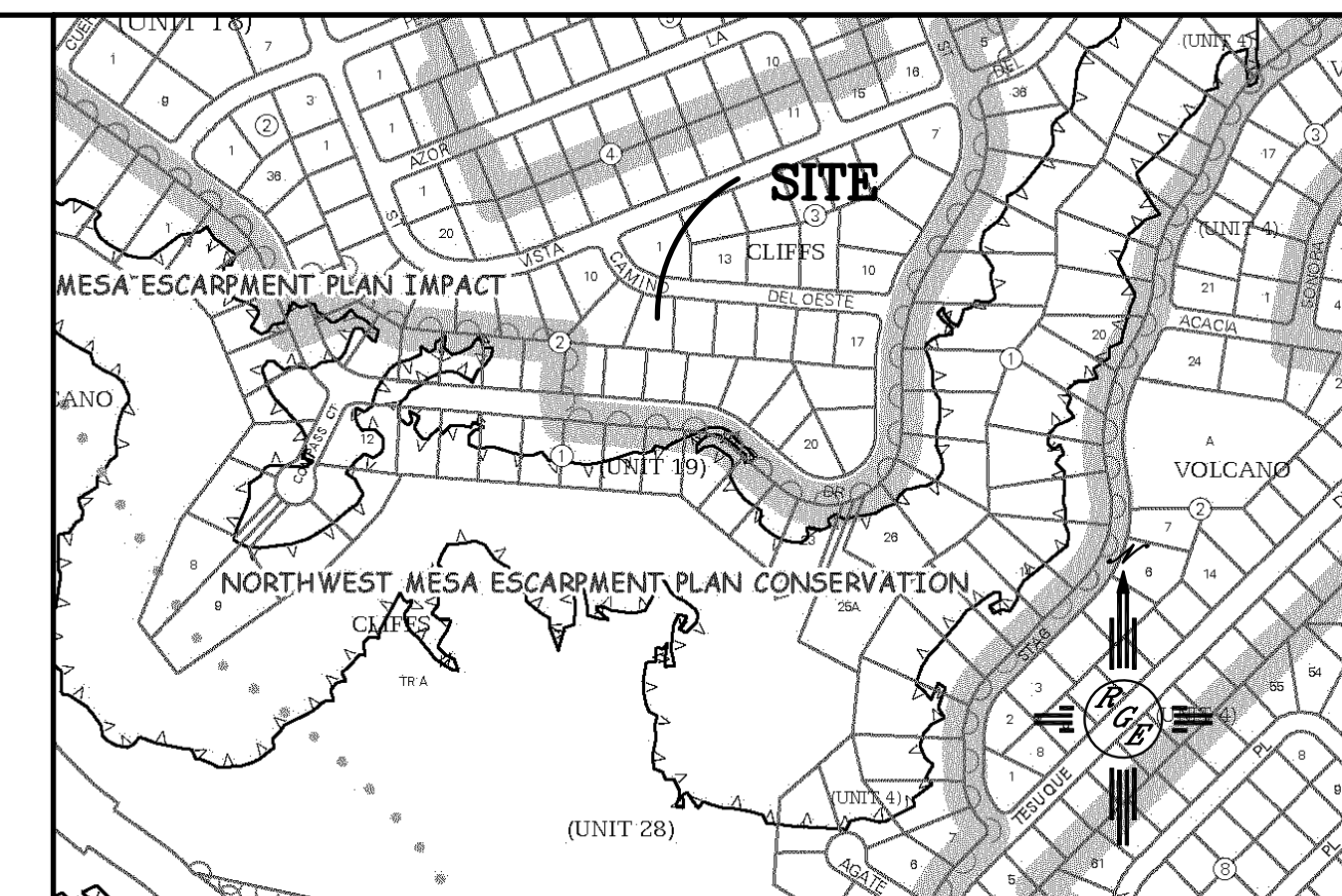
I, DAVID SOULE HAVE PERSONALLY INSPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 4/11/17 BASED UPON APPROVAL FROM DESIGN ENGINEER THE PAD HAS BEEN CONSTRUCTED



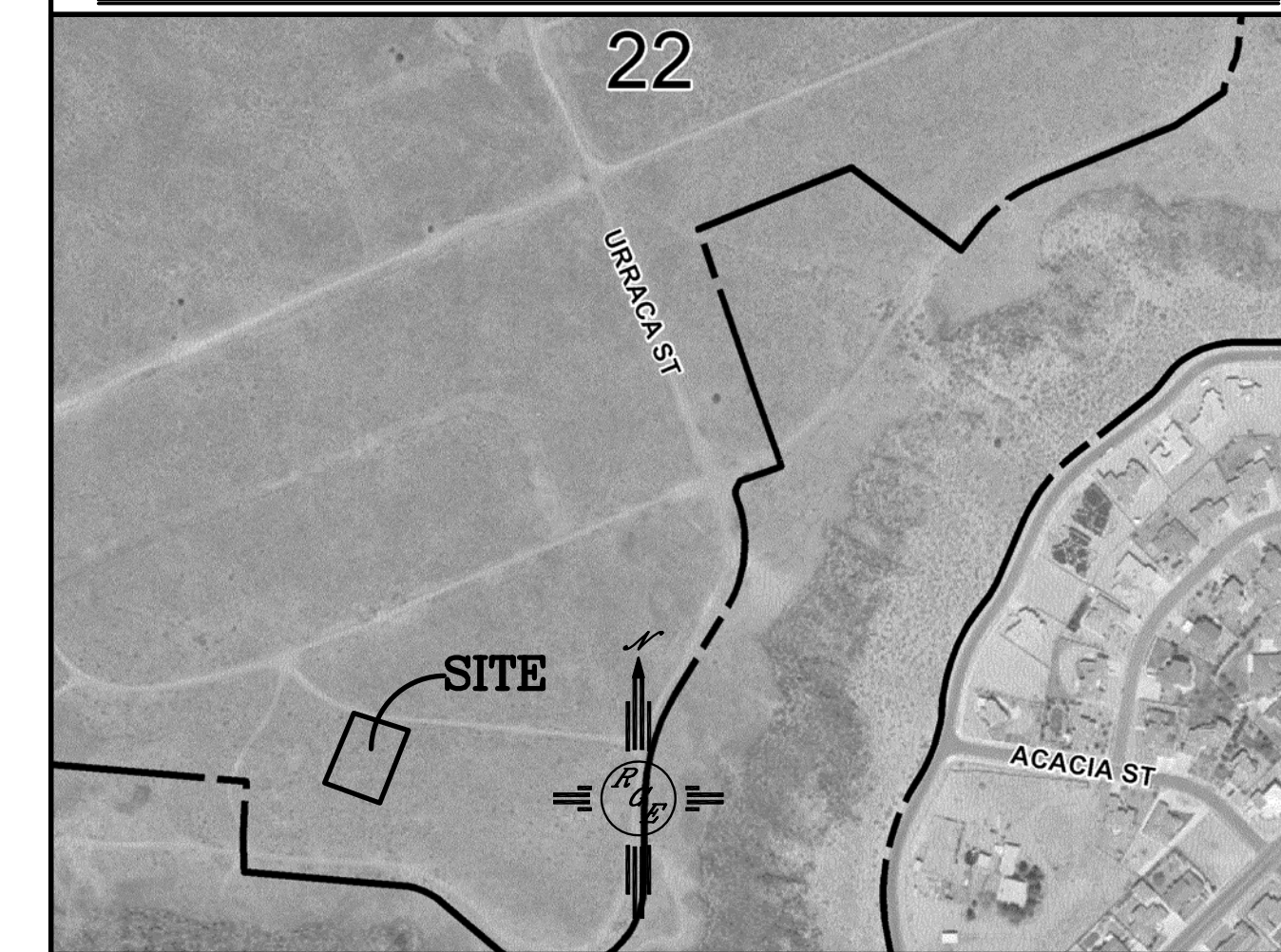
6/2/17

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.



VICINITY MAP: C-11-Z



FIRM MAP: FM35001C0112G

LEGAL DESCRIPTION:

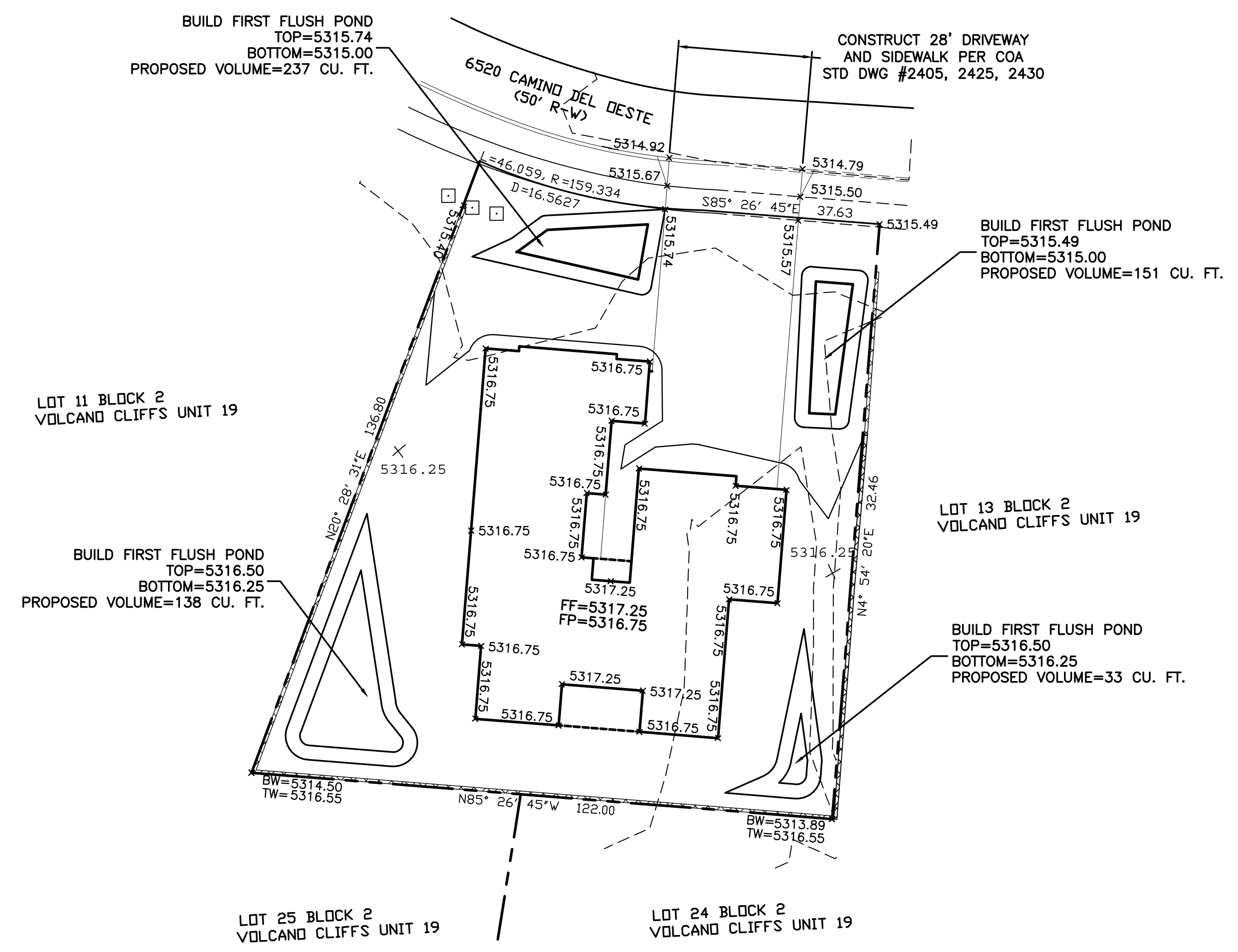
LOT 12, BLOCK 2 VOLCANO CLIFFS UNIT 19

NOTES:

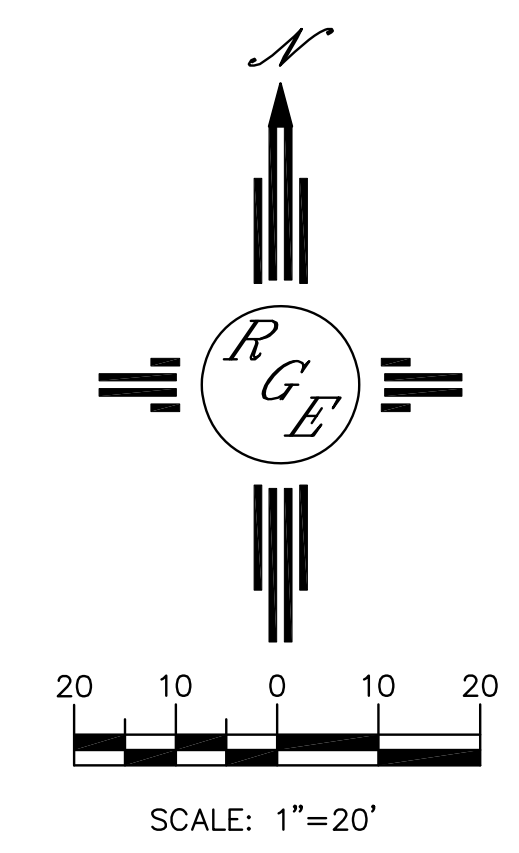
- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.

LEGEND

| | |
|----------------|---|
| ---XXXX--- | EXISTING CONTOUR |
| - - - - - | EXISTING INDEX CONTOUR |
| ----- | PROPOSED CONTOUR |
| -----XXXX----- | 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 0'-3' MAX RETAINAGE (DESIGN BY OTHERS) |



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.



| | | |
|--------------------------------|---|----------------------|
| DAVID SOULE P.E. #14522 | 6520 CAMINO DEL OESTE | DRAWN BY WCVJ |
| | GRADING AND DRAINAGE PLAN | DATE 4-10-17 |
| 4/11/17 | Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999 | 21727-LAYOUT-4-04-17 |
| | | SHEET # |
| | | JOB # 21727 |