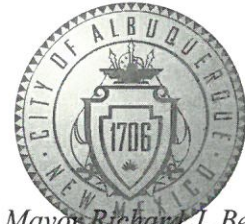


CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



Mayor Richard J. Berry

July 7, 2017

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

RE: **Lot 21 Block 1 Unit 5 Unser Cliffs SAD 227**
6905 Rimrock NW
Grading and Drainage Plan
Engineers Stamp Date 7/5/17 (D10D031)

Dear Mr. Soule,

Based upon the information provided in your submittal received 7/5/17, this plan is approved for Grading Permit. **Prior to building permit approval the following comments must be addressed.**

PO Box 1293

Please inform the builder/owner to attach a copy of this approved plan 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 7/5/17.

Albuquerque

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist of this plan will be required.

New Mexico 87103

If you have any questions, please contact me at 924-3695 or Rudy Rael at 924-3977.

www.cabq.gov

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

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) _____

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) _____

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 A (acres) | Treatment B % | Treatment B (acres) | Treatment C % | Treatment C (acres) | Treatment D % | Treatment D (acres) | Weighted (ac-ft) | Volume (ac-ft) | 100-Year, 6-hr. Flow cfs |
|----------|--------------|-----------------|------------------|------------------------|------------------|------------------------|------------------|------------------------|------------------|------------------------|---------------------|-------------------|--------------------------------|
| ALLOWED | 16021.00 | 0.368 | 0% | 0 | 10% | 0.037 | 40% | 0.147 | 50% | 0.184 | 1.448 | 0.044 | 1.30 |
| PROPOSED | 16021.00 | 0.368 | 0% | 0 | 30% | 0.110 | 32% | 0.117 | 38% | 0.140 | 1.266 | 0.039 | 1.17 |
| total | | | | | | | | | | | | | |

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

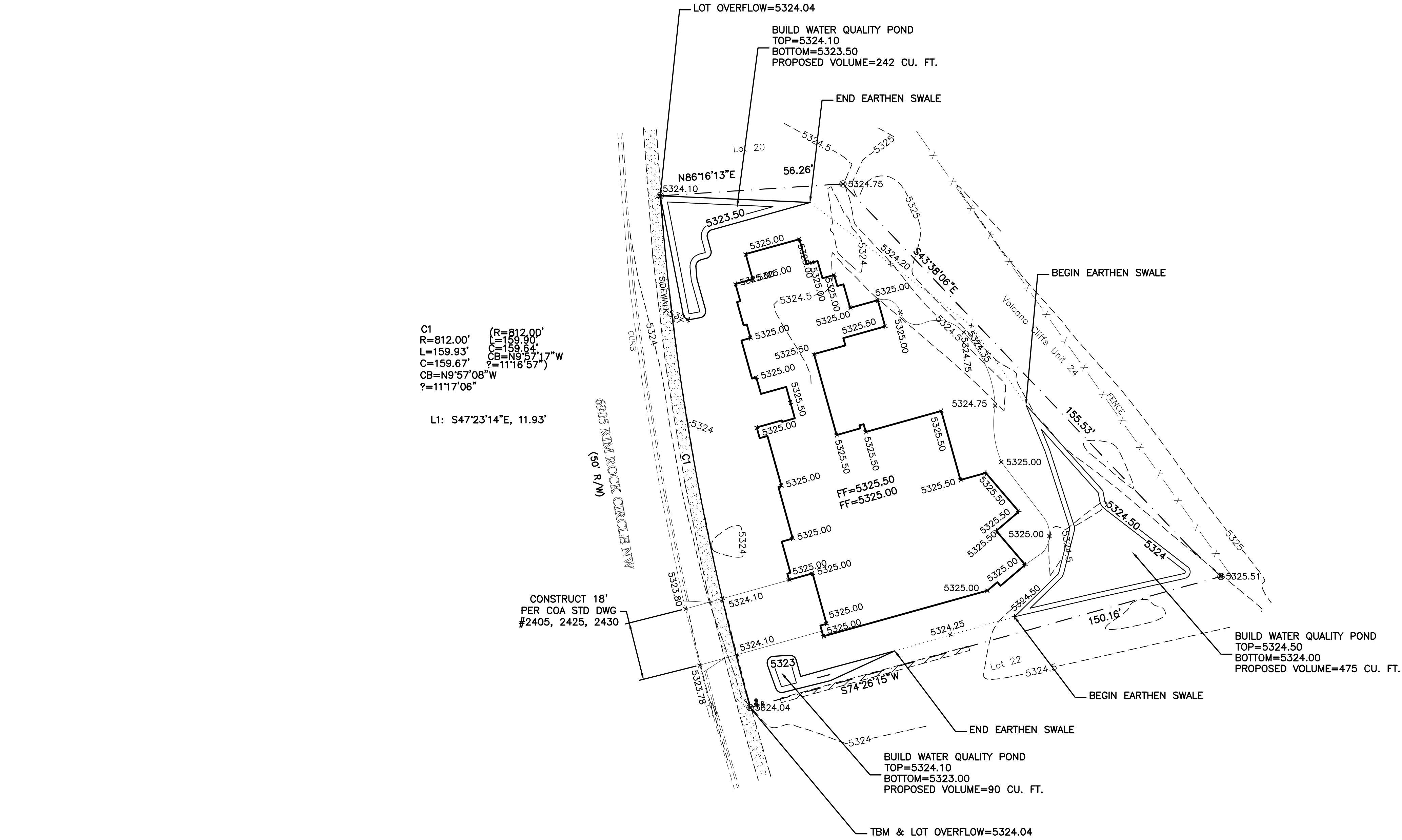
Where for 100-year, 6-hour storm- zone 1
Ea= 0.44 Qa= 1.29
Eb= 0.67 Qb= 2.03
Ec= 0.99 Qc= 2.87
Ed= 1.97 Qd= 4.37

ONSITE Conditions

| FIRST FLUSH WATER QUALITY VOLUME | REQUIRED (CF) | PROVIDED (CF) |
|----------------------------------|------------------|------------------|
| WATER QUALITY | 172 | 819 |

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 per the master drainage plan. We are ponding the water harvest volume generated by the site there is not measurable upland flow. This plan has a shallow water harvest pond in excess of the drainage regulations. This plan is in conformance to the master drainage plan



C1
R=812.00'
L=159.93'
C=159.67'
CB=N9°57'08"W
F=11°16'57"
?=11°17'06"

(R=812.00'
L=159.90'
C=159.64'
CB=N9°57'17"W
F=11°16'57")

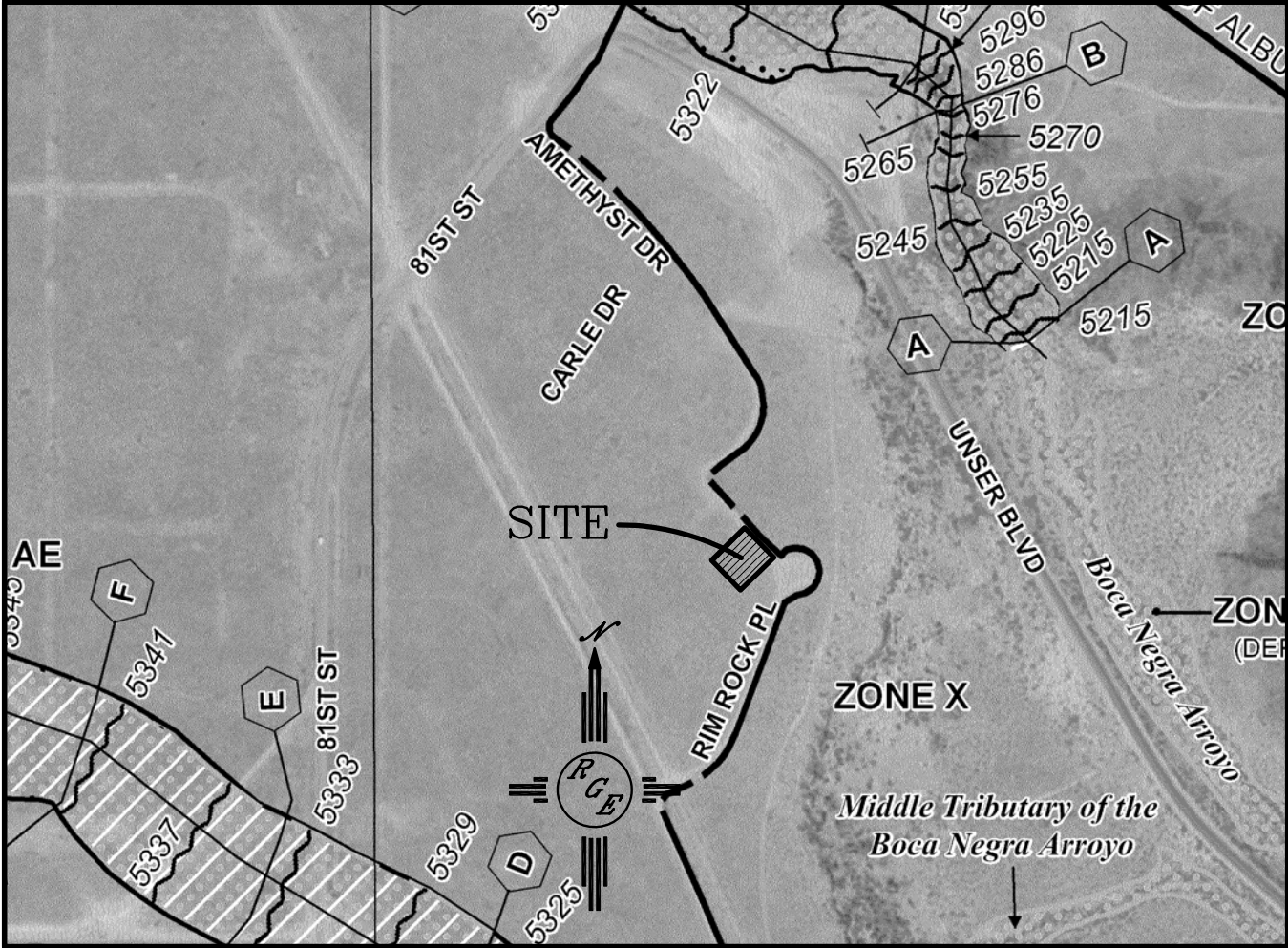
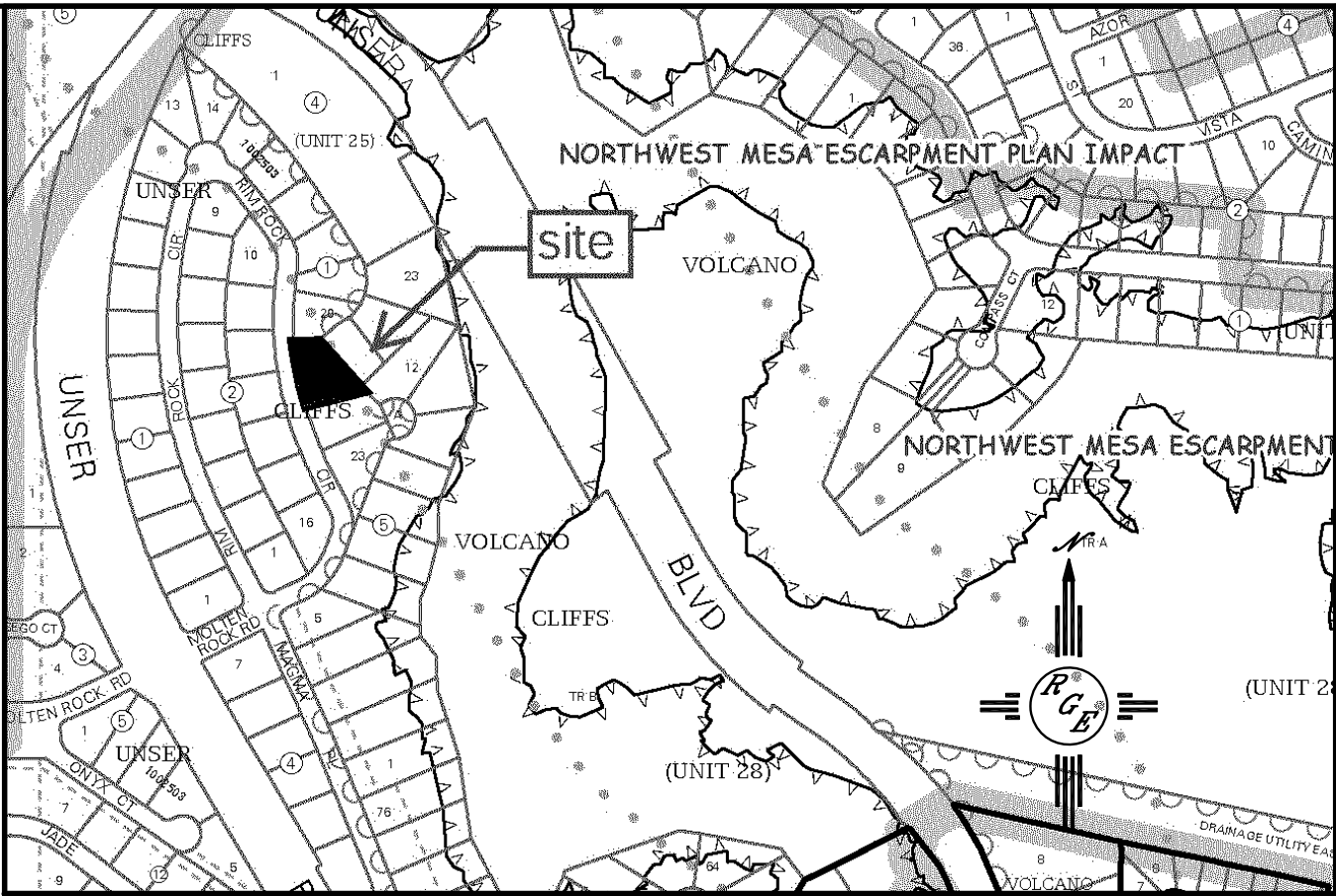
L1: S47°23'14"E, 11.93'

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.

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.



LEGAL DESCRIPTION:

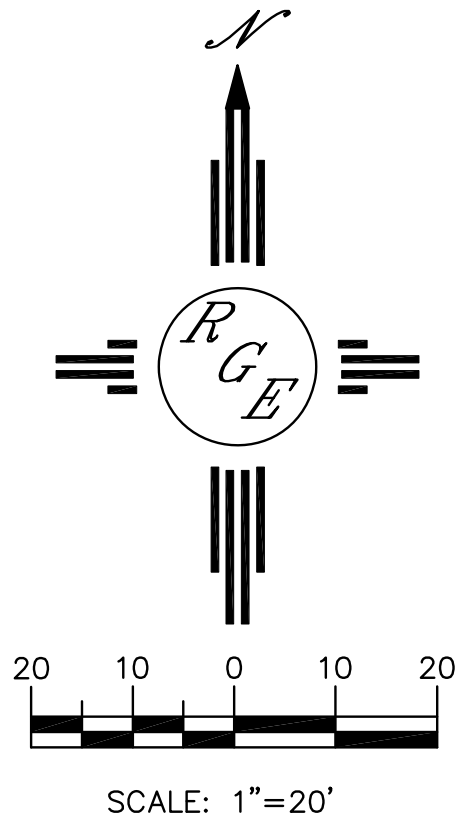
LOT 21, BLOCK 1, UNSER CLIFFS


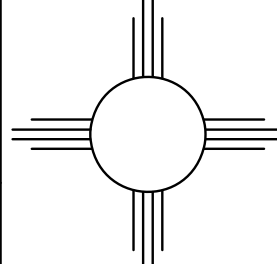
NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ANY SCREEN OR RETAINING WALL SHALL BE PERMITTED SEPERATELY. THIS PLAN MUST BE INCLUDED IN ANY PERMIT APPLICATION
3. A PAD CERTIFICATION IS REQUIRED AFTER GRADING PRIOR TO RELEASE OF BUILDING PERMIT

LEGEND

- XXXX- EXISTING CONTOUR
- XXXX- EXISTING INDEX CONTOUR
- XXXX- 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



| | | |
|---|--|------------------------------------|
| ENGINEER'S SEAL  7/5/17 DAVID SOULE P.E. #14522 | 6905 RIM ROCK CIRCLE MAXWELL RESIDENCE | DRAWN BY WCWJ |
| | GRADING AND DRAINAGE PLAN | DATE 6-14-17 |
| |  <i>Rio Grande Engineering</i> 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999 | 21750-LAYOUT-6-14-17 |
| | | SHEET # — JOB # 21750 |