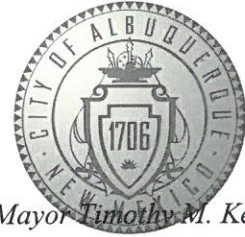


CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

April 1, 2019

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

RE: **Lot 7 Block 7 SAD 227**
Unser Cliffs
7911 Kibo NW
Grading and Drainage Plan
Engineers Stamp Date 3/28/19 (E10D060)

Dear Mr. Soule,

Based upon the information provided in your submittal received 3/28/19, this plan cannot be approved for Grading Permit until the following comments are addressed.

- Provide a detention pond for the site. The percentage required is 34%, the amount of D provided is 58%, the pond must contain the difference which is 24%.

Prior to Building Permit approval a pad certification is required.

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 E10D060



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 7911 KIBO **Building Permit #:** _____ **Hydrology File #:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: LOT 7 , BLOCK 7 VOLCANO CLIFFS UNIT 2
City Address: 79116332 CAMINO ALTO

Applicant: Phil Herrera **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 | | | | | | | | | | 100-Year, 6-hr. | | |
|-------------------|--------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------|-------------------|-------------|-----------------|-------|-------|
| Basin | Area (sf) | Area (acres) | Treatment A % (acres) | Treatment B % (acres) | Treatment C % (acres) | Treatment D % (acres) | Weighted E (ac-ft) | Volume (ac-ft) | Flow cfs | | | |
| ALLOWED | 15212.00 | 0.349 | 0% | 0 | 10% | 0.035 | 40% | 0.1397 | 50% | 0.175 | 1.448 | 0.042 |
| PROPOSED | 15212.00 | 0.349 | 0% | 0 | 10% | 0.035 | 32% | 0.1118 | 58% | 0.203 | 1.526 | 0.044 |
| COMPARISON | | | | | | | | | | | | 1.28 |
| | | | | | | | | | | | | 0.002 |

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

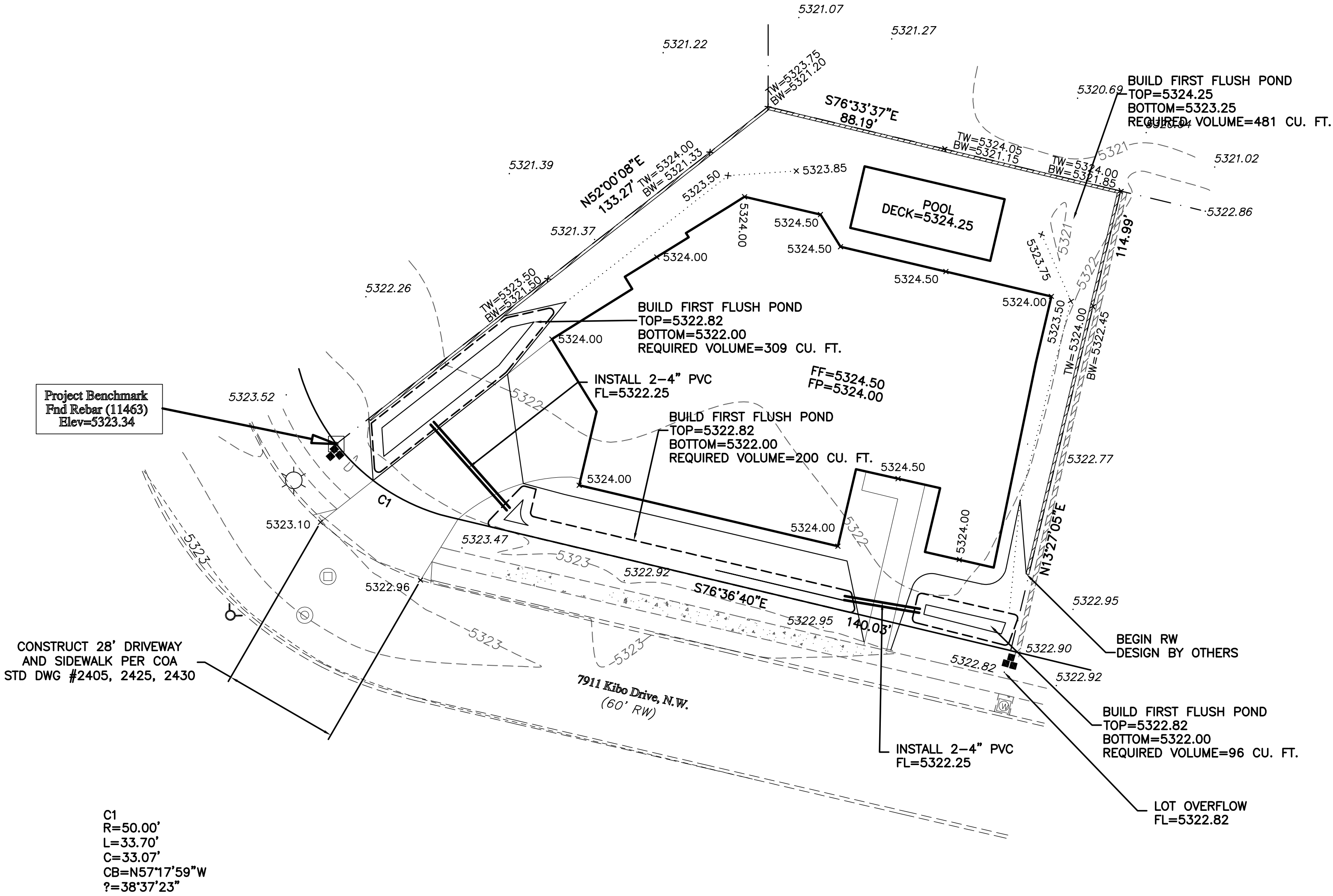
| | |
|----------|----------|
| Ea= 0.44 | Qa= 1.29 |
| Eb= 0.67 | Qb= 2.03 |
| Ec= 0.99 | Qc= 2.87 |
| Ed= 1.97 | Qd= 4.37 |

ONSITE Conditions

| FIRST FLUSH WATER QUALITY VOLUME | REQUIRED (CF) | PROVIDED (CF) |
|----------------------------------|------------------|------------------|
| WATER QUALITY | 250 | 745 |
| FLOOD CONTROL | 99 | 745 |

Narrative

This site is within the SAD 226 Master Drainage plan boundaries. The site is to maintain existing patterns and drain as much as possible to 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 not required to retain. This plan is in conformance to the master drainage plan

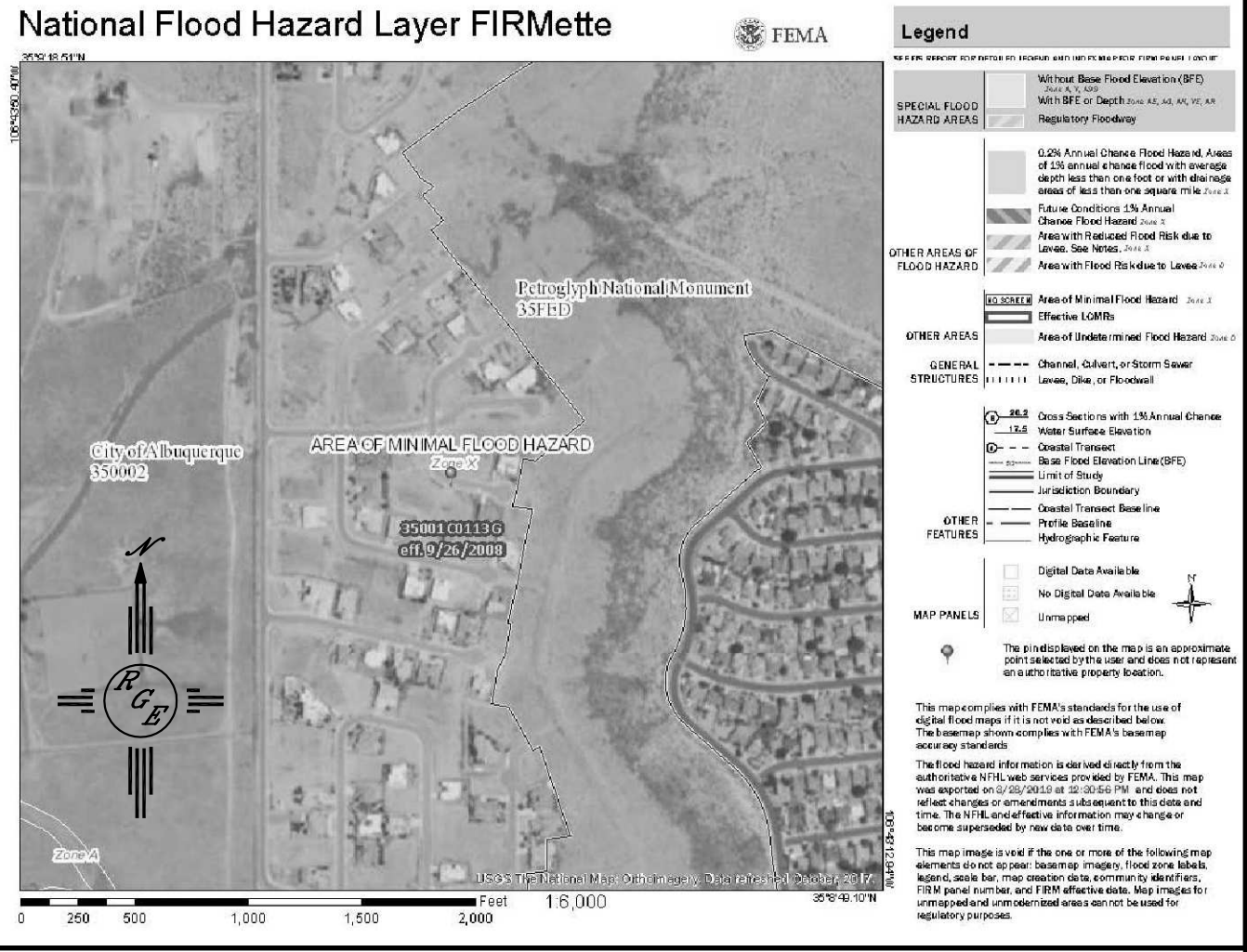
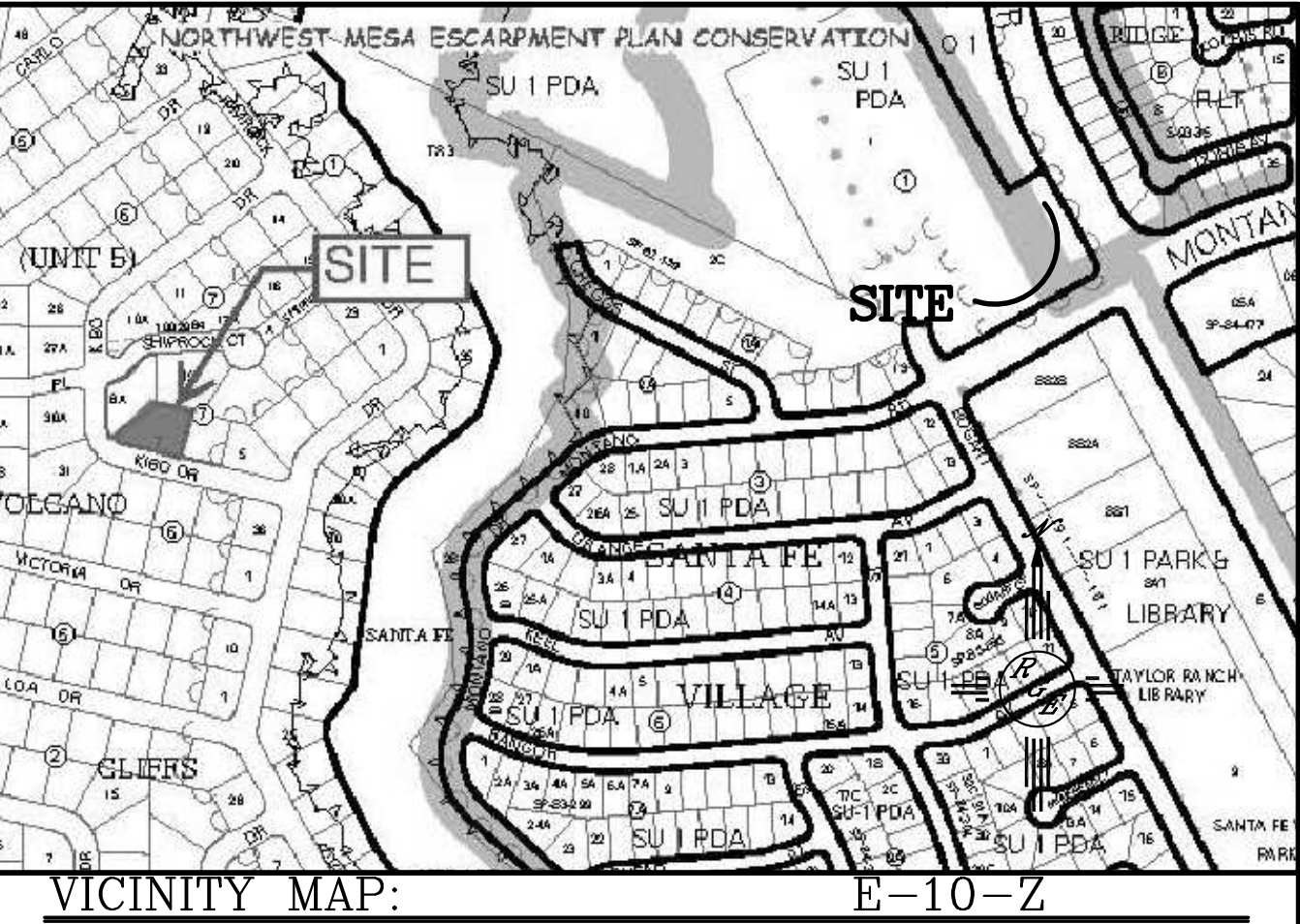


CAUTION:

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.



FIRM MAP:

LEGAL DESCRIPTION:

Lot 7, Block 7, Volcano Cliffs Subdivision Unit 2

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. A PAD GRADING CERTIFICATION IS REQUIRED PRIOR TO BUILDING PERMIT
4. ALL WALLS MUST BE CONSTRUCTED UNDER SEPARATE PERMITS AND MUST COMFORM TO THIS PLAN

LEGEND

| | |
|---------|---|
| --- | 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 (12" MAX. RETAINAGE) |
| ===== | PROPOSED RETAINING WALL-DESIGN BY OTHERS |

| | | |
|--|--|--|
| ENGINEER'S SEAL 3/28/19 DAVID SOULE P.E. #14522 | 7911 KIBO | DRAWN BY: WCUJ |
| | GRADING AND DRAINAGE PLAN | DATE: 3-28-19 |
| | 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0998 | 2109027-LAYOUT-3-28-19 SHEET # JOB # 2109027 |