

# CITY OF ALBUQUERQUE

*Planning Department*  
Suzanne Lubar, Director



*Mayor Richard J. Berry*

January 5, 2017

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

RE: Abrazo Homes  
**Lot 4 Block 10 Unit 22 Volcano Cliffs SAD 228**  
**6420 Petirrojo NW**  
**Grading and Drainage Plan**  
**Engineers Stamp Date 11/3/16 (D10D003F4)**  
**Pad Certification Dated 1/10/16**

Dear Mr. Soule,

Based upon the information provided in your submittal received 1/4/17, 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 the fence 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 924-3999 or Rudy Rael at 924-3977.

Sincerely,

Shahab Biazar, P.E.  
City Engineer, Albuquerque  
Planning Department

RR/SB  
C: File



City of Albuquerque  
Planning Department  
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: 6505 CANOVIO

DRB#:

Legal Description: lot 6 block 8 volcano cliffs UNIT 18

City Address: 6505 CANOVIO NW

Building Permit #:

Work Order#:

City Drainage #:

D10D00306

Engineering Firm: RIO GRANDE ENGINEERING

Address: PO BOX 93924, ALBUQUERQUE, NM 87199

Phone#: 505.321.9099

Contact: DAVID SOULE

E-mail: DAVID@RIOGRANDEENGINEERING.COM

Owner: ABRAZO HOMES

Address: 6505 CANOVIO NW NW 87120

Phone#:

Contact:

E-mail:

Architect: none

Address:

Phone#:

Contact:

E-mail:

Other Contact:

Address:

Phone#:

Contact:

E-mail:

Fax#:

Fax#:

Fax#:

E-mail:

E-mail:

E-mail:

Check all that Apply:

DEPARTMENT:

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

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ ARCHITECT CERTIFICATION (PAD ONLY)
- ☐ 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: 01/03/17 By:

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED:

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

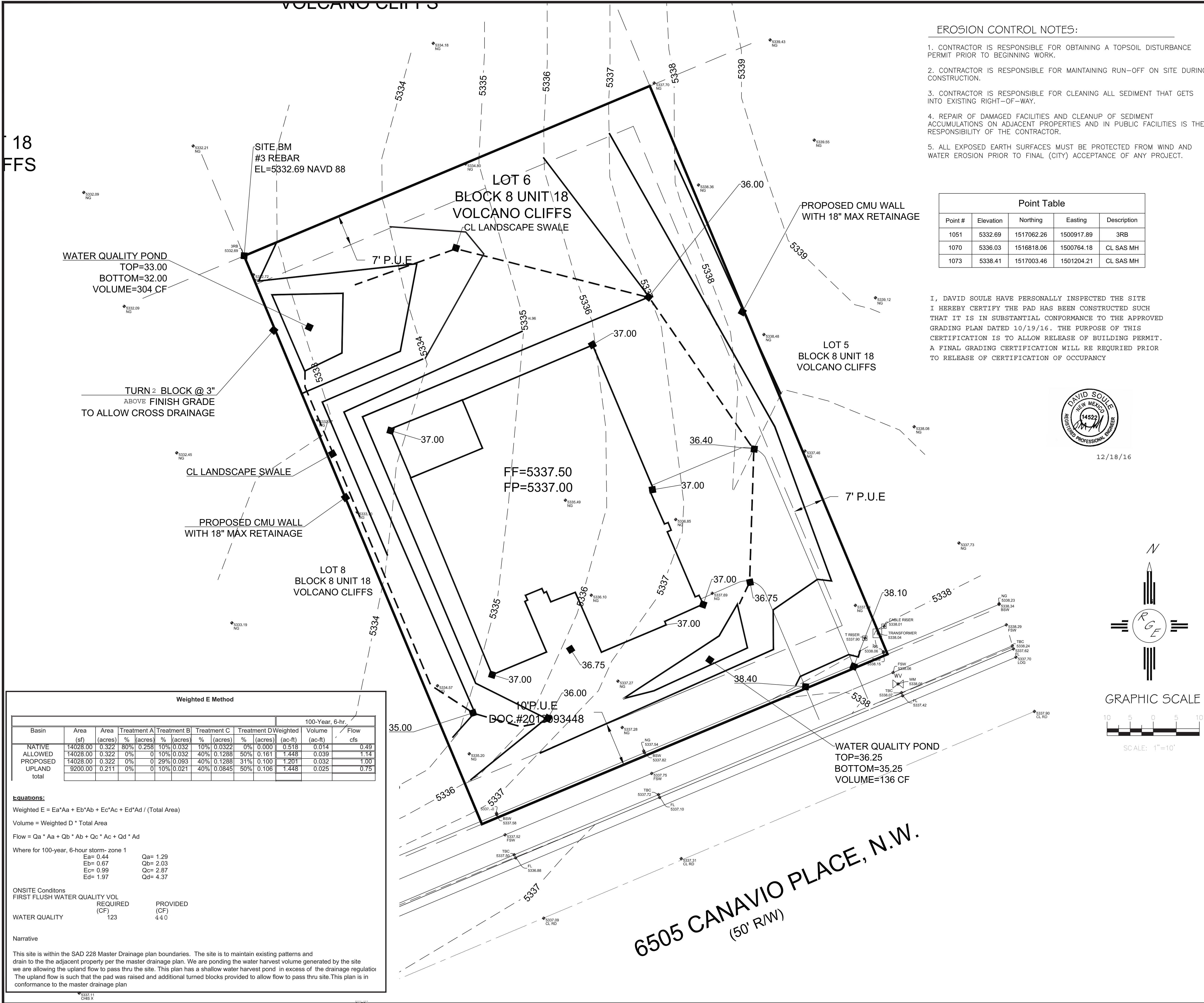
- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY

- ☐ 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)



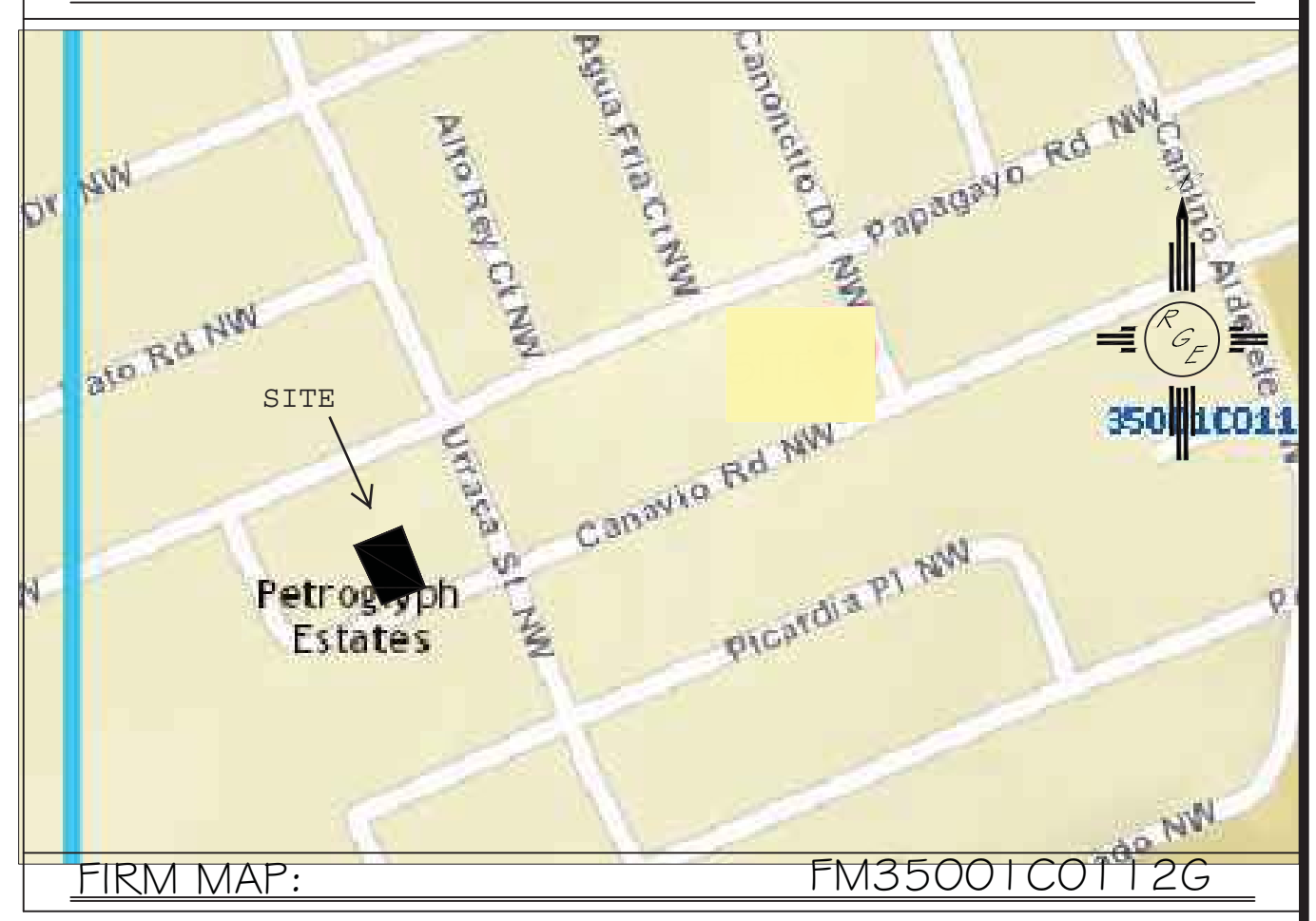
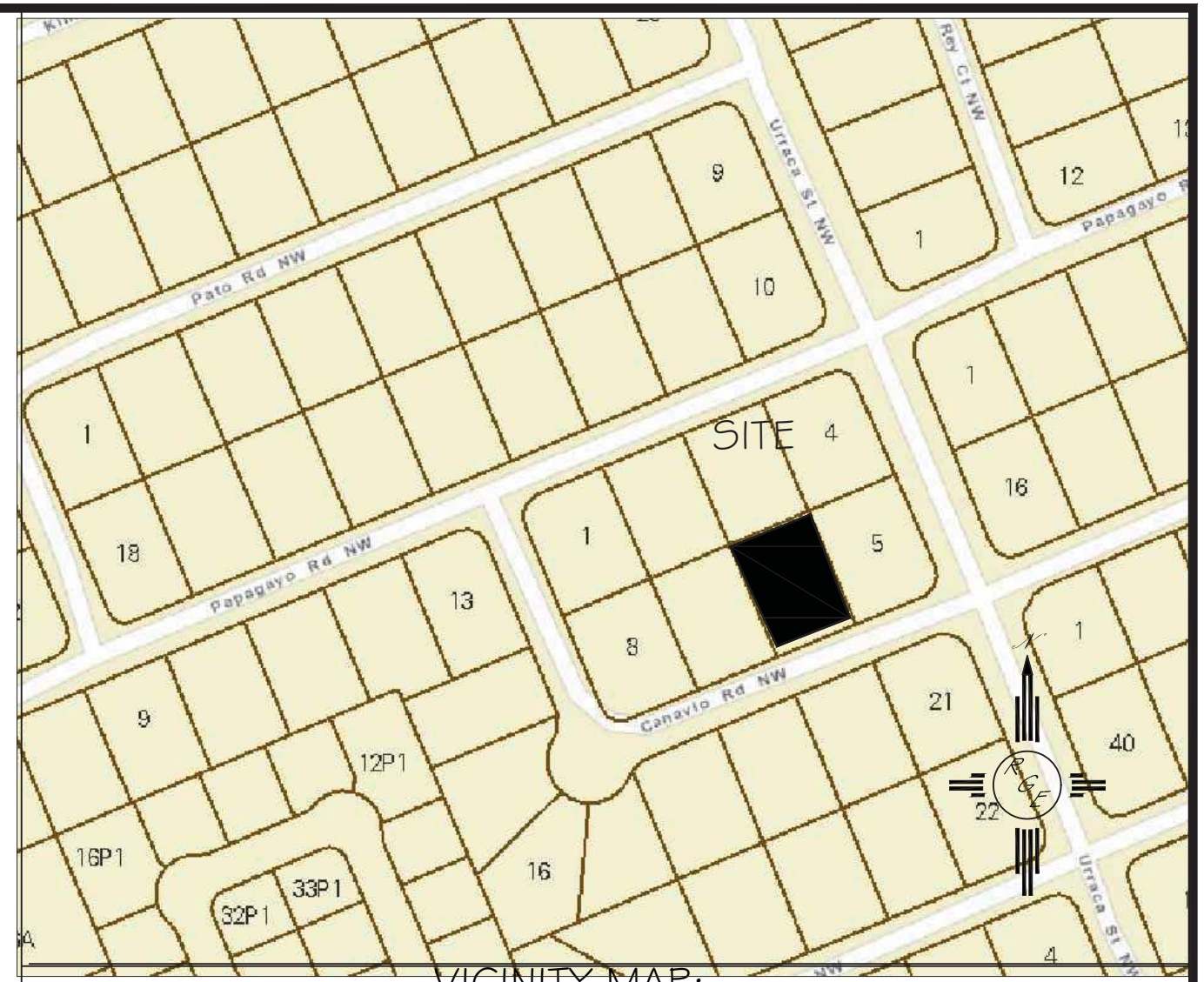
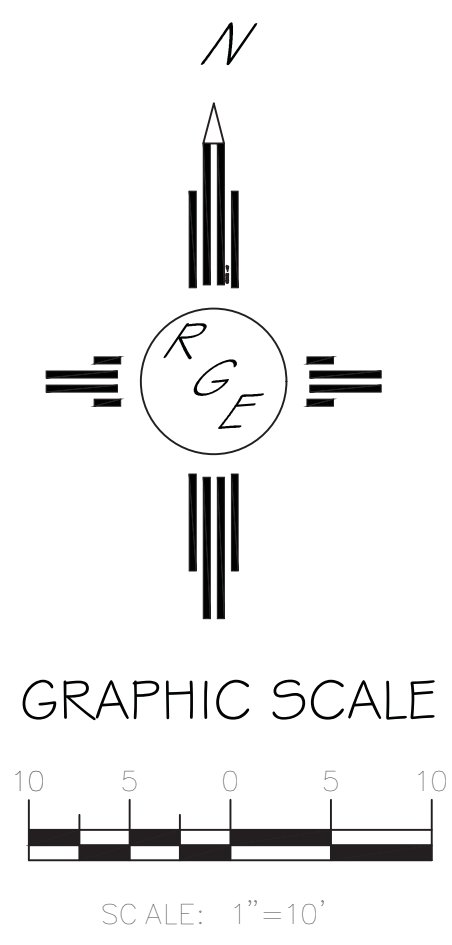
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- EROSION CONTROL NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
  2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
  3. CONTRACTOR IS RESPONSIBLE FOR CLEANING 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.

| Point Table |           |            |            |             |
|-------------|-----------|------------|------------|-------------|
| Point #     | Elevation | Northing   | Easting    | Description |
| 1051        | 5332.69   | 1517062.26 | 1500917.89 | 3RB         |
| 1070        | 5336.03   | 1516818.06 | 1500764.18 | CL SAS MH   |
| 1073        | 5338.41   | 1517003.46 | 1501204.21 | CL SAS MH   |

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 10/19/16. THE PURPOSE OF THIS  
CERTIFICATION IS TO ALLOW RELEASE OF BUILDING PERMIT.  
A FINAL GRADING CERTIFICATION WILL BE REQUIRED PRIOR  
TO RELEASE OF CERTIFICATION OF OCCUPANCY



LEGAL DESCRIPTION:  
LOT 6, BLOCK 8, UNIT 18, VOLCANO CLIFFS

NOTES:  
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.  
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY CONSTRUCTION SURVEY TECHNOLOGIES, DAVID ACOSTA PLS 210811, OCTOBER 2016

| LEGEND |                           |
|--------|---------------------------|
| ---    | EXISTING CONTOUR          |
| ---    | EXISTING INDEX CONTOUR    |
| ---    | PROPOSED CONTOUR          |
| ---    | PROPOSED INDEX CONTOUR    |
| ---    | FLOW DIRECTION-SWALE      |
| ■      | PROPOSED SPOT (FLOW-LINE) |

**Weighted E Method**

| Basin    | Area (sf) | Area (acres) | Treatment A |         |     |         | Treatment B |         |     |         | Treatment C |         |      |         | Treatment D    |                |      |  | 100-Year, 6-hr. |  | Flow cfs |
|----------|-----------|--------------|-------------|---------|-----|---------|-------------|---------|-----|---------|-------------|---------|------|---------|----------------|----------------|------|--|-----------------|--|----------|
|          |           |              | %           | (acres) | %   | (acres) | %           | (acres) | %   | (acres) | %           | (acres) | %    | (acres) | Volume (ac-ft) | Volume (ac-ft) |      |  |                 |  |          |
| NATIVE   | 14028.00  | 0.322        | 80%         | 0.258   | 10% | 0.032   | 10%         | 0.032   | 0%  | 0.000   | 0%          | 0.000   | 0%   | 0.000   | 0.518          | 0.014          | 0.49 |  |                 |  |          |
| ALLOWED  | 14028.00  | 0.322        | 0%          | 0       | 10% | 0.032   | 40%         | 0.1288  | 50% | 0.161   | 1.448       | 0.039   | 1.14 |         |                |                |      |  |                 |  |          |
| PROPOSED | 14028.00  | 0.322        | 0%          | 0       | 29% | 0.093   | 40%         | 0.1288  | 31% | 0.100   | 1.201       | 0.032   | 1.00 |         |                |                |      |  |                 |  |          |
| UPLAND   | 9200.00   | 0.211        | 0%          | 0       | 10% | 0.021   | 40%         | 0.0845  | 50% | 0.106   | 1.448       | 0.025   | 0.75 |         |                |                |      |  |                 |  |          |
| 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 VOL | REQUIRED (CF) | PROVIDED (CF) |
| WATER QUALITY                 | 123           | 440           |

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the the adjacent property per the master drainage plan. We are ponding the water harvest volume generated by the site we are allowing the upland flow to pass thru the site. This plan has a shallow water harvest pond in excess of the drainage regulation. The upland flow is such that the pad was raised and additional turned blocks provided to allow flow to pass thru site. This plan is in conformance to the master drainage plan

|                 |   |                            |
|-----------------|---|----------------------------|
| ENGINEER'S SEAL | LOT 6 BLOCK 8 UNIT 18<br>VOLCANO CLIFFS SUBDIVISION   | DRAWN<br>BY JDG            |
|                 | GRADING AND<br>DRAINAGE PLAN  | DATE<br>10-18-2016         |
|                 | <br>Rio Grande<br>Engineering<br>1606 CENTRAL AVENUE SE<br>SUITE 201<br>ALBUQUERQUE, NM 87106<br>(505) 872-0999 | SHEET #<br>1 OF 1<br>JOB # |