

CITY OF ALBUQUERQUE

Planning Department

Suzanne Lubar, Acting Director



Mayor Timothy M. Keller

December 14, 2017

David Soule, PE
Rio Grande Engineering
1606 Central SE Suite 201
Albuquerque, NM 87106

Re: Lot 17 Block 5 Volcano Cliffs SAD 228
7819 Urraca NW
Request Permanent C.O. – Accepted
Engineer's Stamp dated: 4-17-17 (D10D003H17)
Certification dated: 12/12/17

PO Box 1293

Dear Mr. Soule,

Albuquerque

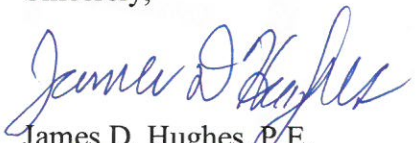
Based on the Certification received 12/12/2017, the site is acceptable for release of Certificate of Occupancy by Hydrology.

NM 87103

If you have any questions, please contact me at 924-3986 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 B				Treatment C				Treatment D				Weighted Volume (ac-ft)	Flow cfs
			%	%	%	%	%	%	%	%	%	%	%	%	%	%	%			
UPLAND	47958.00	1.092	0%	0%	10%	0.109	40%	0.4368	50%	0.546	1.448	0.132	3.88							
ALLOWED	12441.00	0.286	0%	0%	10%	0.029	40%	0.1142	50%	0.143	1.448	0.034	1.01							
PROPOSED	12441.00	0.286	0%	0%	10%	0.029	40%	0.1142	50%	0.143	1.448	0.034	1.01							
total					30%	0.088	32%	0.0914	38%	0.109	1.296	0.030	0.91							

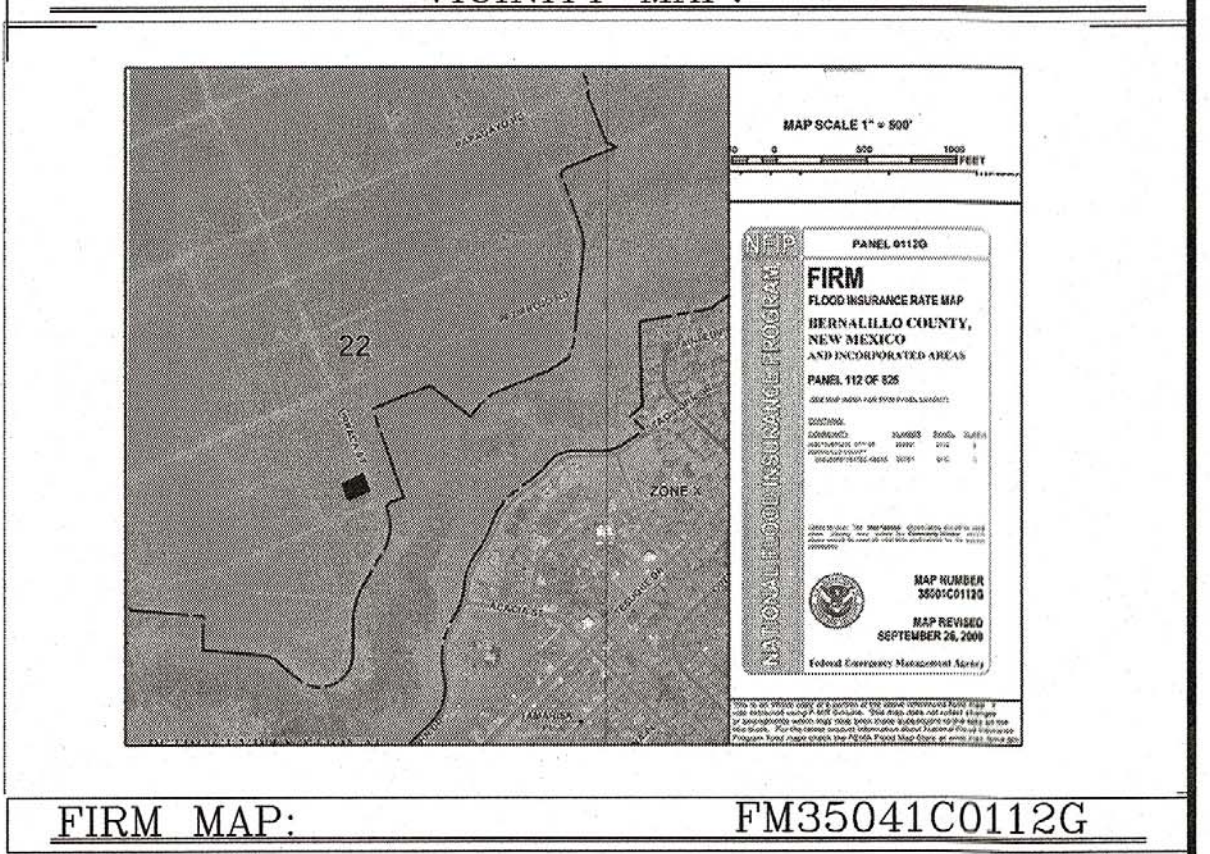
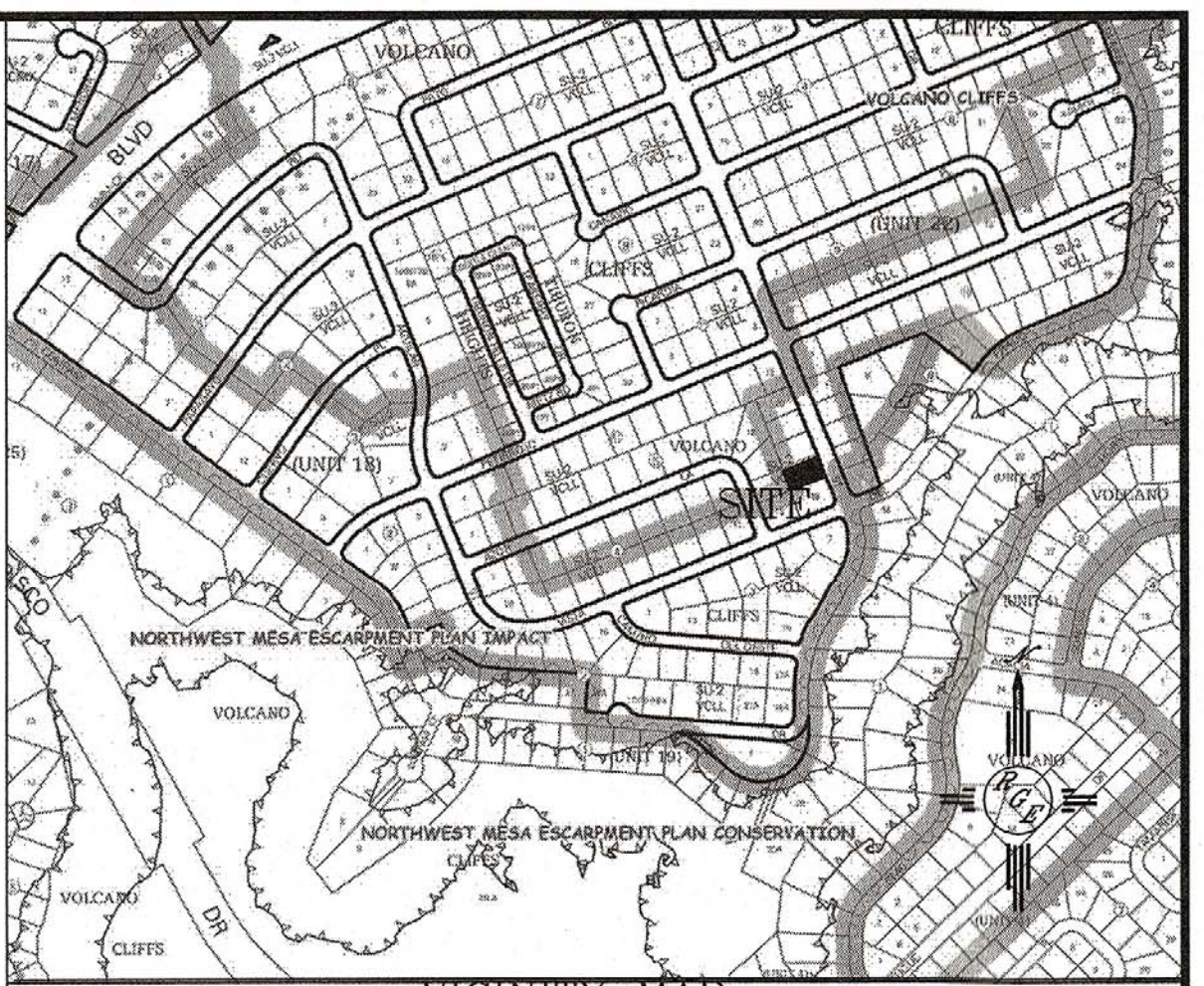
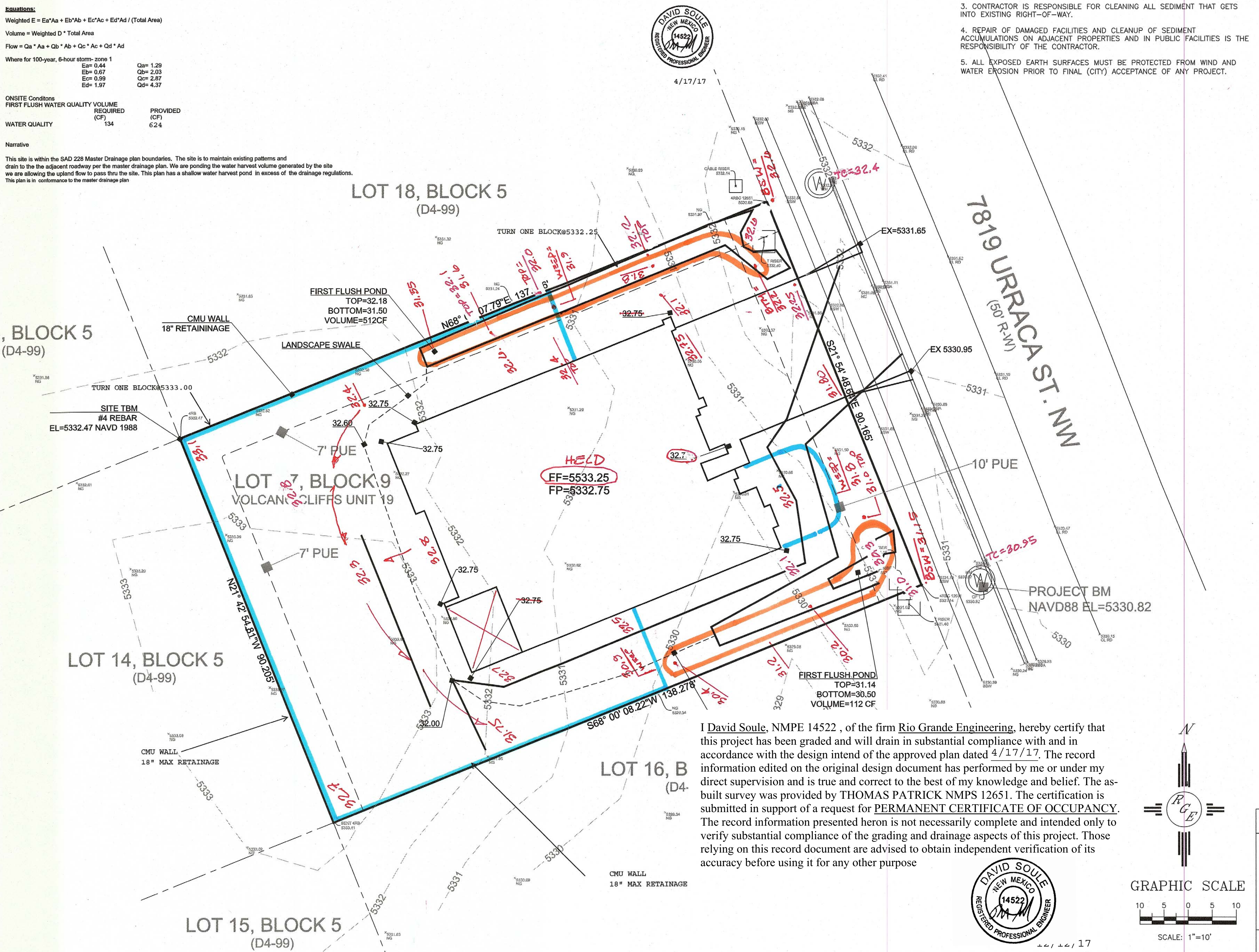
Equations:
 Weighted E = $Ea \cdot Aa + Eb \cdot Ab + Ec \cdot Ac + Ed \cdot Ad$ / (Total Area)
 Volume = Weighted D * Total Area
 Flow = $Qa \cdot Aa + Qb \cdot Ab + Qc \cdot Ac + Qd \cdot Ad$
 Where for 100-year, 6-hour storm- zone 1
 $Ea = 0.44$ $Qa = 1.29$
 $Eb = 0.67$ $Qb = 2.03$
 $Ec = 0.89$ $Qc = 2.97$
 $Ed = 1.97$ $Qd = 4.37$

ONSITE CONDITIONS
 FIRST FLUSH WATER QUALITY VOLUME REQUIRED (CF) PROVIDED (CF)
 WATER QUALITY 134 624

Narrative
 This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway 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 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 4/17/17

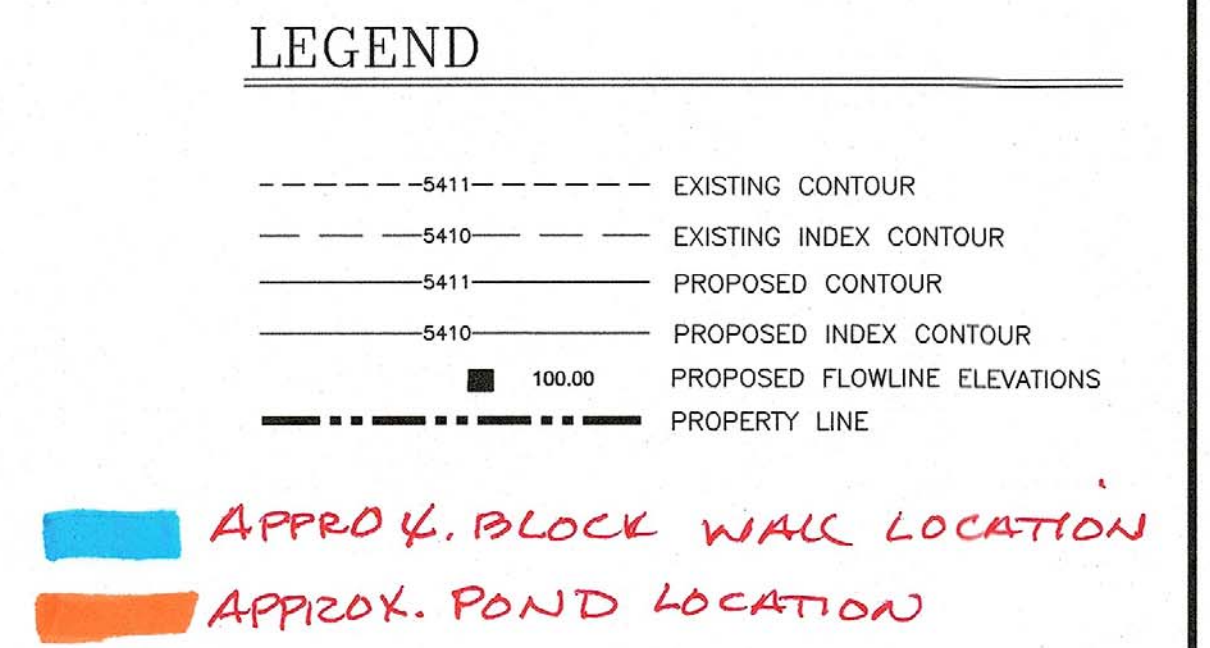
- EROSION CONTROL NOTES:**
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
 2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
 3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
 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.



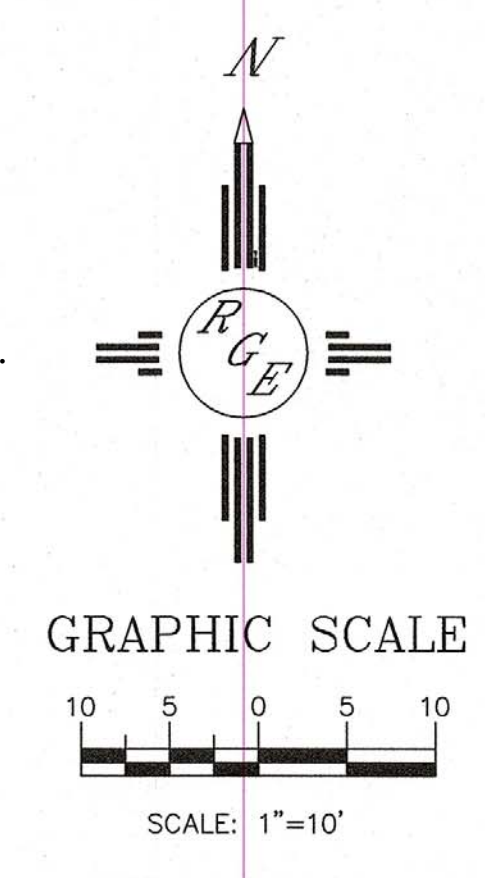
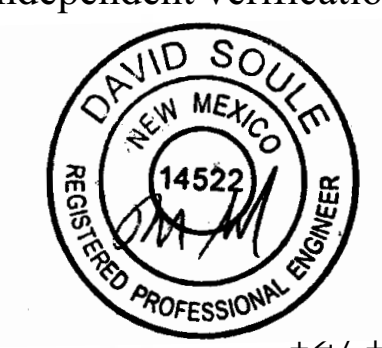
LEGAL DESCRIPTION:
 LOT 17 BLOCK 5, VOLCANO CLIFFS UNIT 19

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY CSTI DATE APRIL 2017
3. ALL DISTURBED AREAS MUST BE RESEED OR LANDSCAPED PRIOR TO FINAL C.O.
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 CONSTRUCTED UNDER SPERATE PERMIT.
6. A PAD CERTIFICATION IS REQUIRED PRIOR TO ISSUANCE OF BUILDING PERMIT



I David Soule, NMPE 14522, of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 4/17/17. The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The as-built survey was provided by THOMAS PATRICK NMPS 12651. The certification is submitted in support of a request for PERMANENT CERTIFICATE OF OCCUPANCY. The record information presented heron is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose



ENGINEER'S SEAL DAVID SOULE NMPE 14522 4/17/17	LOT 17 BLOCK 5 VOLCANO CLIFFS UNIT 19 GRADING AND DRAINAGE PLAN Rio Grande Engineering 1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	DRAWN BY JDG DATE 04-17-2017 SHEET # 1 OF 1 JOB #
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12-12-17
 TCY
 GRADING AS-BUILTS