

# CITY OF ALBUQUERQUE

*Planning Department*  
Alan Varela, Interim Director



*Mayor Timothy M. Keller*

September 2, 2021

Jackie McDowell, PE  
McDowell Engineering, Inc.  
7820 Beverly Hills Ave NE  
Albuquerque, NM 87121

**Re: Lot 36 Block 6 Unit 18 Volcano Cliffs, S.A.D. 228  
7900 Aguila Rd. NW  
Permanent C.O. – Accepted  
Engineers Stamp Date: 10/12/2020 by David Soule (D10D003I3)  
CO Certification Date: 8/23/2021 by Jackie McDowell**

Ms. McDowell,

PO Box 1293

Based on the Certification received 9/1/2021, the site is acceptable for release of Certificate of Occupancy by Hydrology.

Albuquerque

Adjustments to grading plan by Jackie McDowell of McDowell Engineering are listed in red ink. David Soule of Rio Grande Engineering gave permission to Jackie McDowell for the use of the original grading and drainage plan, for the completion of the CO process by hydrology. Email of approval by David Soule of Rio Grande Engineering is attached to electronic file

NM 87103

If you have any questions, you can contact me at 924-3986 or Rudy Rael at 924-3977.

[www.cabq.gov](http://www.cabq.gov)

Sincerely,

Ernest Armijo, P.E.  
Principal Engineer, Planning Dept.  
Development Review Services



# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

**Project Title:** CANDELARIA-7900 AGUILA Building Permit #: \_\_\_\_\_ Hydrology File #: \_\_\_\_\_  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** 003 009VOLCANO CLIFFS SUBD UNIT 18  
**City Address:** 7900 AGUILA ST NW ALBUQUERQUE NM 87120

**Applicant:** MCDOWELL ENGINEERING, INC. **Contact:** JACKIE MCDOWELL  
**Address:** 7820 BEVERLY HILLS AVE. NE, ALBUQUERQUE, NM 87122  
**Phone#:** 505-828-2430 **Fax#:** 505-821-4857 **E-mail:** jackmcdowell@comcast.net  
**Owner:** DIEGO CANDELARIA **Contact:** DIEGO CANDELARIA  
**Address:** 1330 Crestview Dr. Los Lunas, NM 87035  
**Phone#:** 505-480-5608 **Fax#:** \_\_\_\_\_ **E-mail:** diego@candelariahomes.com

**TYPE OF SUBMITTAL:** \_\_\_\_\_ PLAT (\_\_\_\_ # OF LOTS) ☒ RESIDENCE \_\_\_\_\_ DRB SITE \_\_\_\_\_ ADMIN SITE

IS THIS A RESUBMITTAL?: \_\_\_\_\_ Yes ☒ No

**DEPARTMENT:** \_\_\_\_\_ TRAFFIC/ TRANSPORTATION ☒ HYDROLOGY/ DRAINAGE

Check all that Apply:

### TYPE OF SUBMITTAL:

☒ ENGINEER/ARCHITECT CERTIFICATION  
\_\_\_\_ PAD CERTIFICATION  
\_\_\_\_ CONCEPTUAL G & D PLAN  
\_\_\_\_ GRADING PLAN  
\_\_\_\_ DRAINAGE MASTER PLAN  
\_\_\_\_ DRAINAGE REPORT  
\_\_\_\_ FLOODPLAIN DEVELOPMENT PERMIT APPLIC  
\_\_\_\_ ELEVATION CERTIFICATE  
\_\_\_\_ CLOMR/LOMR  
\_\_\_\_ TRAFFIC CIRCULATION LAYOUT (TCL)  
\_\_\_\_ TRAFFIC IMPACT STUDY (TIS)  
\_\_\_\_ OTHER (SPECIFY) \_\_\_\_\_  
\_\_\_\_ PRE-DESIGN MEETING?

### 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:** 8-23-21 **By:** JACKIE MCDOWELL

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_



# 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	%	acres	%	acres	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs
ALLOWED	24850.00	0.566	0%	0	20%	0.113	46%	0.2603	34%	0.192	1.259	0.059			1.328	0.063					1.82
PROPOSED	24850.00	0.566	0%	0	20%	0.113	39%	0.2207	41%	0.232											1.88
COMPARISON																					0.003

## 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  
Eb= 0.67  
Ec= 0.99  
Ed= 1.97

Qa= 1.29  
Qb= 2.03  
Qc= 2.87  
Qd= 4.37

## ONSITE Conditions

FIRST FLUSH WATER QUALITY VOLUME

REQUIRED (CF)

PROVIDED (CF)

WATER QUALITY FLOOD CONTROL

0

2238

## Narrative

This site is within the SAD 226 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the roadway per the master drainage plan. Due to rock the pad is elevated and the front yard remains low to minimize importation of dirt there is not measurable upland flow. This plan does exceed the allowed impervious area therefore propose to retain the 6-hour volume increase. This plan is in conformance to the master drainage plan.

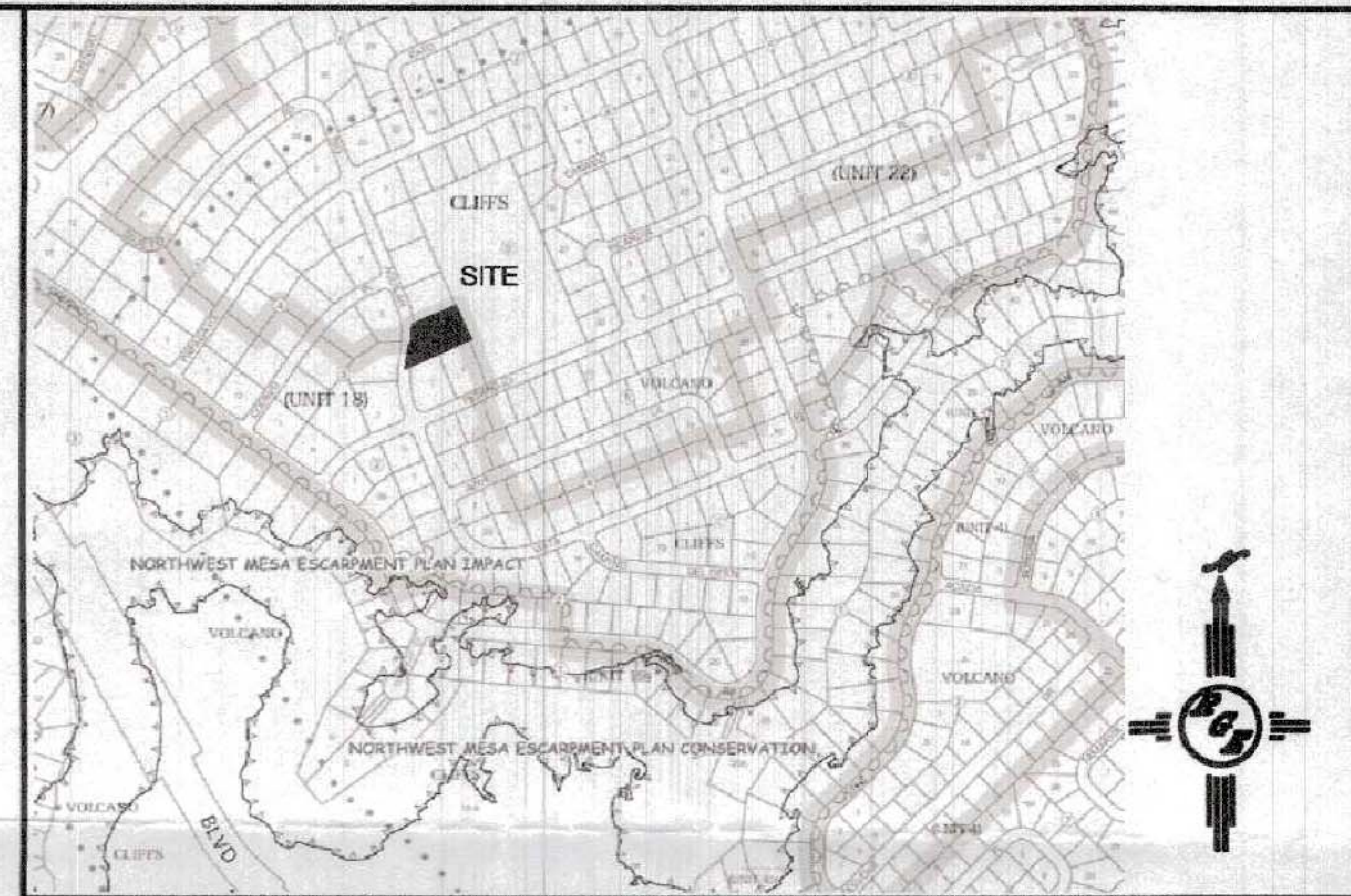
I, DAVID SOULE HAVE PERSONALLY INSPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 10/12/20



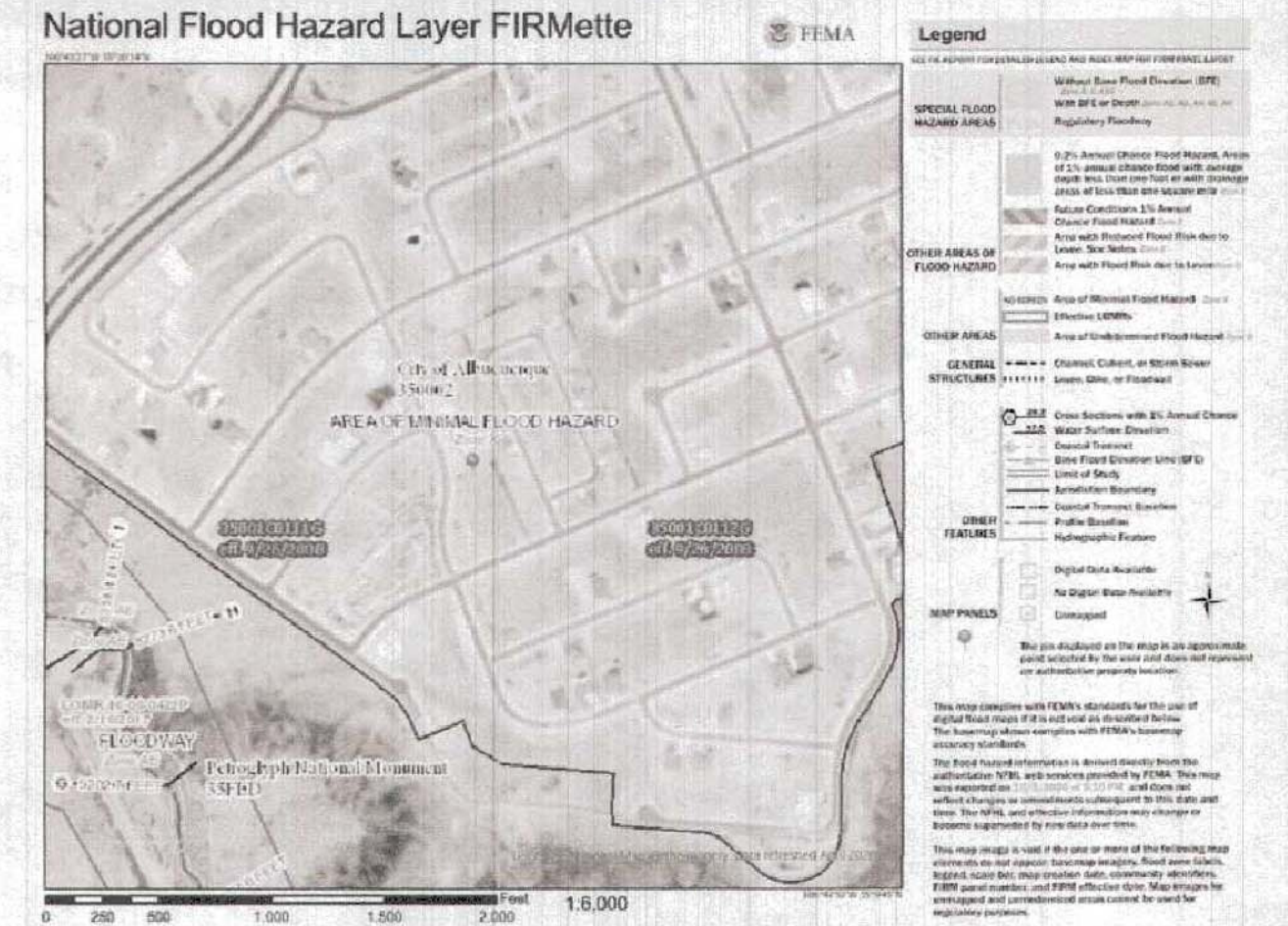
1/7/21

## 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.



## VICINITY MAP: D-10-z



## FIRM MAP:

## LEGAL DESCRIPTION:

LOTS 3 BLOCK 9 UNIT 18 VOLCANO CLIFFS SUBDIVISION  
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

## 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. ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
5. A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

## LEGEND

- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- PROPOSED CONTOUR
- PROPOSED INDEX CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- BOUNDARY
- PROPOSED EARTHEN SWALE
- ADJACENT BOUNDARY
- EXISTING CURB AND GUTTER
- PROPOSED GRAVEL DRIVEWAY
- PROPOSED PERIMETER WALL

## ZONE 1 AS-BUILT CALCULATIONS

Areas: (acres)	Allowed	Proposed
Treatment A	0.00	0.00
Treatment B	0.11	0.15
Treatment C	0.26	0.14
Treatment D	0.19	0.28
Total (acres) =	0.57	0.57

POND VOLUME PROVIDED:		
ELEV.	AREA	VOL. (CF)
5326	3360	2341.5
5325	1323	463.05
5324.3	0	2804.55
	TOTAL	CF

Volume	100 year Allowed	100 year Proposed	10 year Allowed	10 year Proposed	2 year Allowed	2 year Proposed
Volume (acre-feet) =	0.060	0.068	0.032	0.037	0.014	0.018
Volume (cubic feet) =	2,599	2,870	1,378	1,604	623	798

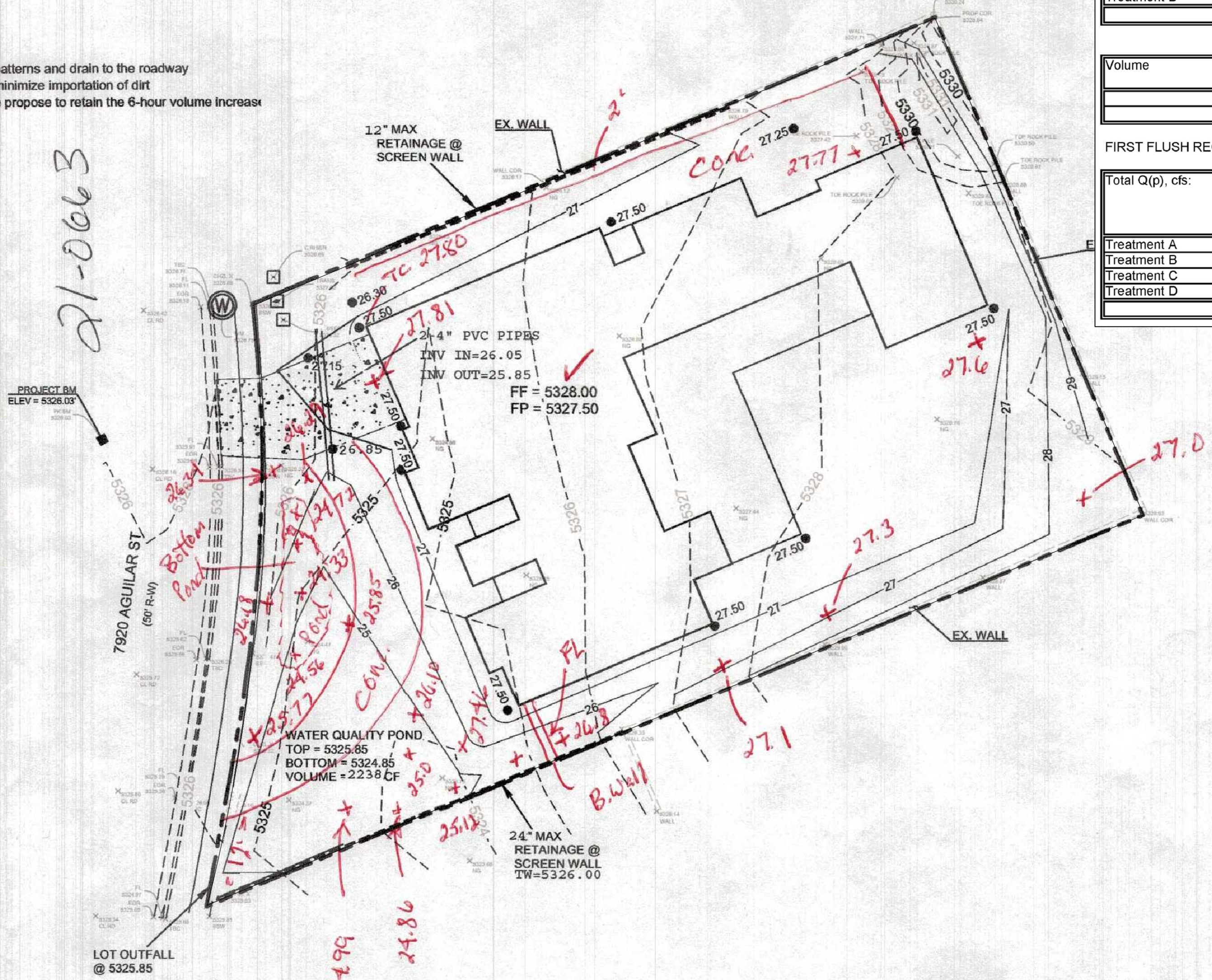
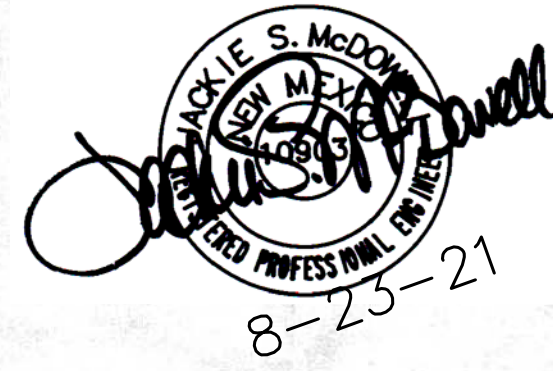
FIRST FLUSH REQUIRED POND VOL = 0.34"/(12"/FT)\*(0.28 AC \* 43560 SF/AC) = 346 CF

Total Q(p), cfs:	100 year Allowed Q(p)*A	100 year Proposed Q(p)*A	10 year Allowed Q(p)*A	10 year Proposed Q(p)*A	2 year Allowed Q(p)*A	2 year Proposed Q(p)*A
Treatment A	0.00	0.00	0.00	0.00	0.00	0.00
Treatment B	0.23	0.30	0.09	0.11	0.00	0.00
Treatment C	0.75	0.40	0.39	0.21	0.12	0.07
Treatment D	0.84	1.22	0.56	0.81	0.33	0.47
Total Q (cfs) =	1.83	1.93	1.03	1.13	0.45	0.54

## CERTIFICATE OF OCCUPANCY

I, JACKIE S. MCDOWELL, NMPE # 10903, OF THE FIRM MCDOWELL ENGINEERING, INC., HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 10-12-20, PREPARED BY DAVID SOULE. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON AUGUST 18, 2021 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT FOR A REQUEST FOR CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT AND TO CONFIRM THAT THE BUILDING PAD IS AT THE GRADE PROVIDED. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.



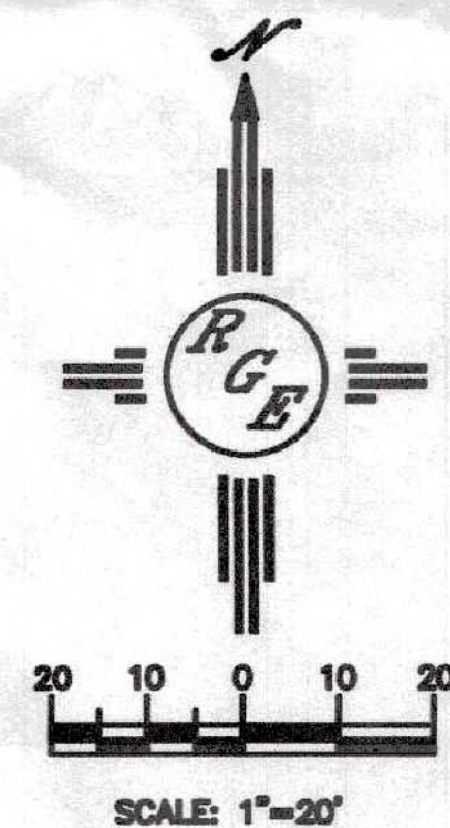
## CAUTION:

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.



As-builts Certified 8-16-21

Anthony L. Marrero



ENGINEER'S SEAL  10/12/20 DAVID SOULE P.E. #14522	LOT 3 BLOCK 9 UNIT 18 VC 7900 AGUILAR ST  GRADING AND DRAINAGE PLAN   1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0689	DRAWN BY DEM
		DATE 10-11-20 LOT 3 BLOCK 9 UNIT 18 VC.DWG SHEET # C1 JOB #