

# CITY OF ALBUQUERQUE

*Planning Department*  
Alan Varela, Director



*Mayor Timothy M. Keller*

November 16, 2022

Sheldon Greer, P.E.  
RESPEC  
5971 Jefferson St. NE Suite 101  
Albuquerque, New Mexico 87109

**RE: Lot 9 Block 1 Volcano Cliffs SAD 228  
8005 Alto Rey Ct. NW  
G&D Plan Date: 10/1/2020 (D10D003N2)  
Pad Certification Date: 10/12/2020  
CO Certification Revised Date: 11/14/2022**

Mr. Greer,

PO Box 1293 Based on the Certification received on 11/15/2022, the site is acceptable for release of  
Certificate of Occupancy by Hydrology.

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

Sincerely,

NM 87103

www.cabq.gov Tiequan Chen, P.E.  
Principal Engineer, Hydrology  
Planning Department, Development Review Services

RR/TC  
C: File D10D003N2



# City of Albuquerque

Planning Department

Development & Building Services Division

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

**Project Title:** \_\_\_\_\_ **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_

**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_

**Legal Description:** \_\_\_\_\_

**City Address:** \_\_\_\_\_

**Applicant:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Owner:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**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:** \_\_\_\_\_ **By:** \_\_\_\_\_

COA STAFF:

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

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

Project Name: Petroglyph Estates  
Project Address: 8005 Alto Ray CT  
Pulse Site ID: Lot 2

Site Area (sq. ft.) 14000  
House Area (sq. ft.) 5170  
Driveway Area (sq. ft.) 500  
Other Imp Area (sq. ft.) 1580  
Total Imp. Area 7170

	AREA (SF)	% AREA	Q100 (CFS/AC)		DMP (%)	DMP (cfs)	DRAIN TO FRONT LOT AREA (sq. ft.)		DRAIN TO REAR LOT AREA (sq. ft.)		Q100 TO FRONT LOT (cfs)		Q100 TO REAR LOT (cfs)	
			(1)	(2)			(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
A	0	0.0%	1.29	0.00	0.0%	0.00	0	0	0	0.00	0.00	0	0	0.00
B	3415	24.4%	2.03	0.16	10.0%	0.07	300	3315	0.01	0.15	0.01	0.15	0	0.00
C	2415	24.4%	2.87	0.23	40.0%	0.37	300	3315	0.02	0.31	0.02	0.31	0	0.00
D	7170	51.2%	4.37	0.72	50.0%	0.70	600	6570	0.06	0.66	0.06	0.66	0	0.00
TOTAL	14000	100.0%		1.10		1.14								

NOTES: (1) Zone 1 - Table A 9 Albuquerque DPM  
(2) Per Volcano Cliffs Drainage Management Plan  
(3) Total Discharge  
(4) Allowable Discharge

Existing Conditions:  
The existing site is not within a designated flood zone. The site surface drains to the drainage channel on Lots 9 and 16.

Proposed Conditions:  
The proposed site improvements will include the construction of a single family residence with landscaping and onsite improvements. In accordance with the S40-226 drainage management plan, the runoff will free discharge allowable discharge. The allowable discharge was determined by analysis of the basin including the lot. The lot use percentages of the basin were apportioned between roadways and lots based on area. The roof, driveway, and an additional 1500 sq. ft. for structure improvements are included in the impervious area percentage for the lot.

## DRAINAGE CERTIFICATION

I, SHELDON GREER P.E., NMPE 17154, OF THE ENGINEERING FIRM RESPEC, 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 10/29/2020. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY THOMAS W. PATRICK, NMPS 12651, OF THE FIRM COMMUNITY SCIENCE SERVICES. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 11/14/2022 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 OF 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. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

SHELDON E. GREER, PE 17154

11/14/2022  
DATE



CONSTRUCT ALL SWALES AND EROSION PROTECTION BELOW ADJACENT GRADE TO ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY.



FIRM MAP:

35001C012G

VICINITY MAP

D-10-Z

### GENERAL NOTES:

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THE CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, 1986 EDITION, UPDATE NO. 8 VOL. 1 AND 2 JANUARY 2011.
- THE EROSION PROTECTION SPECIFIED THIS PLAN IS THE MINIMUM RECOMMENDED. THE OWNER IS ENCOURAGED TO INCORPORATE EROSION RESISTANT LANDSCAPING ON AREAS WHERE EROSION MAY OCCUR SUCH AS SLOPES AND SWALES. THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL FEATURES NECESSARY TO PRESERVE THE DESIGN INTENT OF THE GRADING PLAN.
- THE DRAINAGE INFRASTRUCTURE SHOWN ON THIS PLAN IS THE RESPONSIBILITY OF THE PROPERTY OWNER.
- ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEED OR LANDSCAPED.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- GRADING SHOWN HEREIN ASSUMES THE CONCURRENT GRADING OF THE ADJACENT LOTS BELONGING TO THE SAME PROPERTY OWNER.

### NOTE:

THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES. MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

### NOTE:

THESE DRAWINGS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

### NOTE:

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF RESPEC, INC. IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.

### EROSION CONTROL NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING OF WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITIES OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

### LEGEND

TW = TOP OF WALL  
BW = BOTTOM OF WALL  
FG = FINISHED GROUND  
EG = EXISTING GROUND  
FL = FLOW LINE  
EOD = EDGE OF DRIVEWAY  
FP = FINISHED PAD  
TOB = TOP OF BERM

RETAINING WALL  
TOP OF BERM

### KEYED NOTES

- EXISTING PROPERTY LINE
- EXISTING 10' P.U.E.
- EXISTING STANDARD CURB AND GUTTER
- EXISTING SIDEWALK
- PAD EXTENTS
- HIGH POINT OF SWALE
- SWALE
- MATCH DRIVEWAY TO BACK OF EXISTING SIDEWALK
- IF PERIMETER WALL IS INSTALLED THEN PROVIDE TURNED BLOCK TO ALLOW FOR CROSS LOT DRAINAGE
- PROPOSED DRIVEWAY LOCATION, DRIVEWAY PERMIT BY OTHERS
- EXISTING WALL ADJACENT TO PROPERTY (RETAINING WALL MAY HAVE TO BE ADJUSTED WHEN EXISTING WALL ARE ENCOUNTERED.)
- EXISTING 7' P.U.E.
- 8" RIPRAP RUNDOWN

TABLE 2. WATER QUALITY STORM EVENT RUNOFF RATE AND VOLUME AS A PERCENT OF IMPERVIOUS AREA FOR 40-ACRE AND SMALLER SITES

Percent Impervious (%)	Runoff Depth (inches)	Runoff Rate (cfs/acre)	Runoff Volume (cubic feet/acre)
0	0	0	0
20	0.09	0.5	327
40	0.18	0.8	653
60	0.27	1.2	980
80	0.36	1.35	1037
100	0.46	1.5	1070

### Table Interpolation:

Site Area (sq. ft.) 14000  
Site Area (ac) 0.32  
Imp. Area (Sq. Ft.) 7170  
% Imp 51.2%

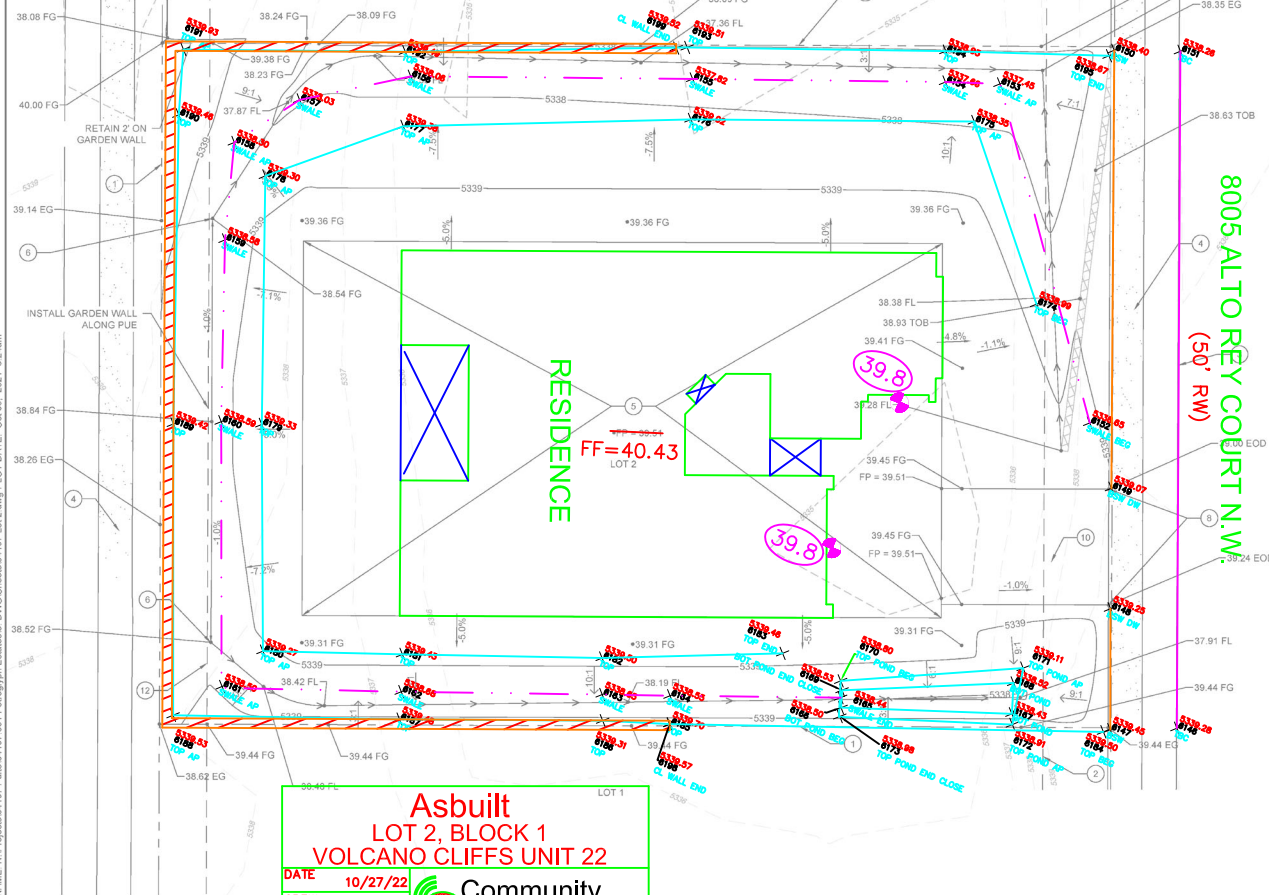
Runoff Vol. (cfs)	0-20	20-40	40-60	60-80	80-100
51.2	0	0	836.4	0	0

Total Water Quality Volume Required: 269 cu. ft.  
Provided: 427 cu. ft.

0.45 inches of runoff from imp. Area

### Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
VOLUME	1.00	1.25	13948.65 Sq. Ft.	2.76 Cu. Yd.	1888.10 Cu. Yd.	1885.34 Cu. Yd.<FILL>
Totals			13948.65 Sq. Ft.	2.76 Cu. Yd.	1888.10 Cu. Yd.	1885.34 Cu. Yd.<FILL>



Asbuilt  
LOT 2, BLOCK 1  
VOLCANO CLIFFS UNIT 22

DATE 10/27/22  
CREW MJM/AHM  
DRAFTING AHM  
GPS TIO  
JN N143-05

Community Sciences Corporation  
Land Surveying  
(505) 897.0000

DESIGNED BY RESPEC NEW MEXICO 17154 PROFESSIONAL ENGINEER	DRAWN BY RESPEC NEW MEXICO 17154 PROFESSIONAL ENGINEER	CHECKED BY RESPEC NEW MEXICO 17154 PROFESSIONAL ENGINEER	DATE 10.03.2021
REVISION			
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED			
PROJECT NAME: LOT 2 PETROGLYPH ESTATES 8005 ALTO RAY CT 00020001VOLCANO CLIFFS SUBD UNIT 22			
SHEET TITLE: GRADING AND DRAINAGE PLAN			
SUBMITTED FOR: CONSTRUCTION			
SHEET NUMBER: 1 OF 1			