

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

July 21, 2023

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

**RE: Lot 18 Block 1 Volcano Cliffs Unit 22 SAD 228
8019 Agua Fria Ct. NW
Grading and Drainage Plan
Engineers Stamp Date: 10/29/2020 (D10D003N18)
CO Certification Date: 7/17/2023**

Mr. Greer,

Based on the Certification received on 7/21/2023, the site is acceptable for release of Certificate of Occupancy by Hydrology.

PO Box 1293

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

Albuquerque

Sincerely,

NM 87103

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

www.cabq.gov

RR/TC
File D10D003N18



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						DRAIN TO REAR LOT		DRAIN TO REAR LOT		Q100 TO FRONT LOT		Q100 TO REAR LOT	
Project Address:	8019 Agua Fria CT						DRAIN TO REAR LOT AREA (sq. ft.)		DRAIN TO REAR LOT AREA (sq. ft.)		Q100 TO FRONT LOT (cfs)		Q100 TO REAR LOT (cfs)	
Pulte Site ID:	Lot 18													
							AREA (SF)	% AREA	Q100 (cfs/AC.) (1)	Q100 (cfs) (3)	DMP % (2)	DMP Q100 (cfs) (4)		
Site Area	(sq. ft.)	16900	A	0	0.0%	1.29	0.00	0.0%	0.00	0	0	0.00	0.00	
			B	4865	28.8%	2.03	0.23	10.0%	0.08	300	4565	0.01	0.21	
House Area	(sq. ft.)	5170	C	4865	28.8%	2.87	0.32	40.0%	0.45	300	4565	0.02	0.30	
Driveway Area	(sq. ft.)	500	D	7170	42.4%	4.37	0.72	50.0%	0.85	600	6570	0.06	0.66	
Other Imp Area	(sq. ft.)	1500	TOTAL	16900	100.00%		1.27		1.37		15700	0.09	1.17	
Total Imp. Area:		7170	NOTES: (1) Zone 1 - Table A-9 Albuquerque DPM (2) Per Volcano Cliffs Drainage Management Plan (3) Total Discharge (4) Allowable Discharge											

TABLE 2. WATER QUALITY STORM EVENT RUNOFF RATE AND VOLUME AS A PERCENT OF IMPERVIOUS AREA FOR 40 ACRE AND SMALLER SITES				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 SAD 228 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.			
Percent Impervious (in)	Runoff Depth (inches)	Runoff Rate (cfs/ac)	Runoff Volume (cubic feet/ac)								
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	1670								

Table Interpolation:		Site Area (sq. ft.)	Site Area (ac.)	Imp. Area (sq. ft.)	% Imp
		16900	0.39	7170	42.4%

Percent Impervious (pdi)	Runoff Depth (inches)	Runoff Rate (cfs/ac)	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	1670

Table Interpolation:	Site Area (sq. ft.)	Site Area (ac.)	Imp. Area (sq. ft.)	% Imp
	16900	0.39	7170	42.4%

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
VOLUME	1.00	1.25	16743.66 Sq. Ft.	116.37 Cu. Yd.	970.73 Cu. Yd.	854.36 Cu. Yd.<Fill>
Totals			16743.66 Sq. Ft.	116.37 Cu. Yd.	970.73 Cu. Yd.	854.36 Cu. Yd.<Fill>

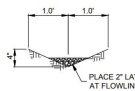
PAD CERTIFICATION

I SHELDON GREER P.E., NMPE 17154, OF THE ENGINEERING FIRM RESPEC, HEREBY CERTIFY, BASED ON SURVEY DATA PROVIDED BY BRIAN MARTINEZ, NMPS 18774, THAT THE AS CONSTRUCTED PAD ELEVATION IS WITHIN 0.2' OF THE DESIGN ELEVATION AND THAT THE HORIZONTAL LIMITS OF THE AS CONSTRUCTED PAD ARE AS SHOWN.

SHELTON E. GREER, PE 17154
DATE: 5/10/2021

DATE: May 24, 2021 9:48am

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



SWALE SECTION



TYPICAL POND SECTION
Scale: NTS

NOTE: CONTRACTOR SHOULD VERIFY IN THE FIELD THE EDGE OF DRIVEWAY ELEVATION (EOD) BEFORE CONSTRUCTION. IF ANY DISCREPANCY BETWEEN FIELD ELEVATION AND Q&D PLAN ELEVATION, CONTACT ENGINEER IMMEDIATELY MOVING FORWARD.

DATE: 05/16/23

CREW: RGR/DCN

DRAFTING: AHM

GPS: VIEJO

JN: N143-05

Community Sciences Corporation

Land Surveying

(505) 897.0000

SITE DRAINAGE CERTIFICATION

I, SHELTON 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 12851, OF THE FIRM COMMUNITY SCIENCES SERVICES. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 7/17/2023 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.

SHELTON E. GREER, PE 17154

7/17/2023

DATE

SHELTON E. GREER, PE 17154

DESIGNED BY

DRAWN BY

CHECKED BY

DATE

REVISION

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 LINES IN OR NEAR THE ARE 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. 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 ARE 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

1. EXISTING PROPERTY LINE

2. EXISTING 10' P.U.E.

3. EXISTING STANDARD CURB AND GUTTER

4. EXISTING SIDEWALK

5. PAD EXTENTS

6. HIGH POINT OF SWALE

7. SWALE

8. MATCH DRIVEWAY TO BACK OF EXISTING SIDEWALK

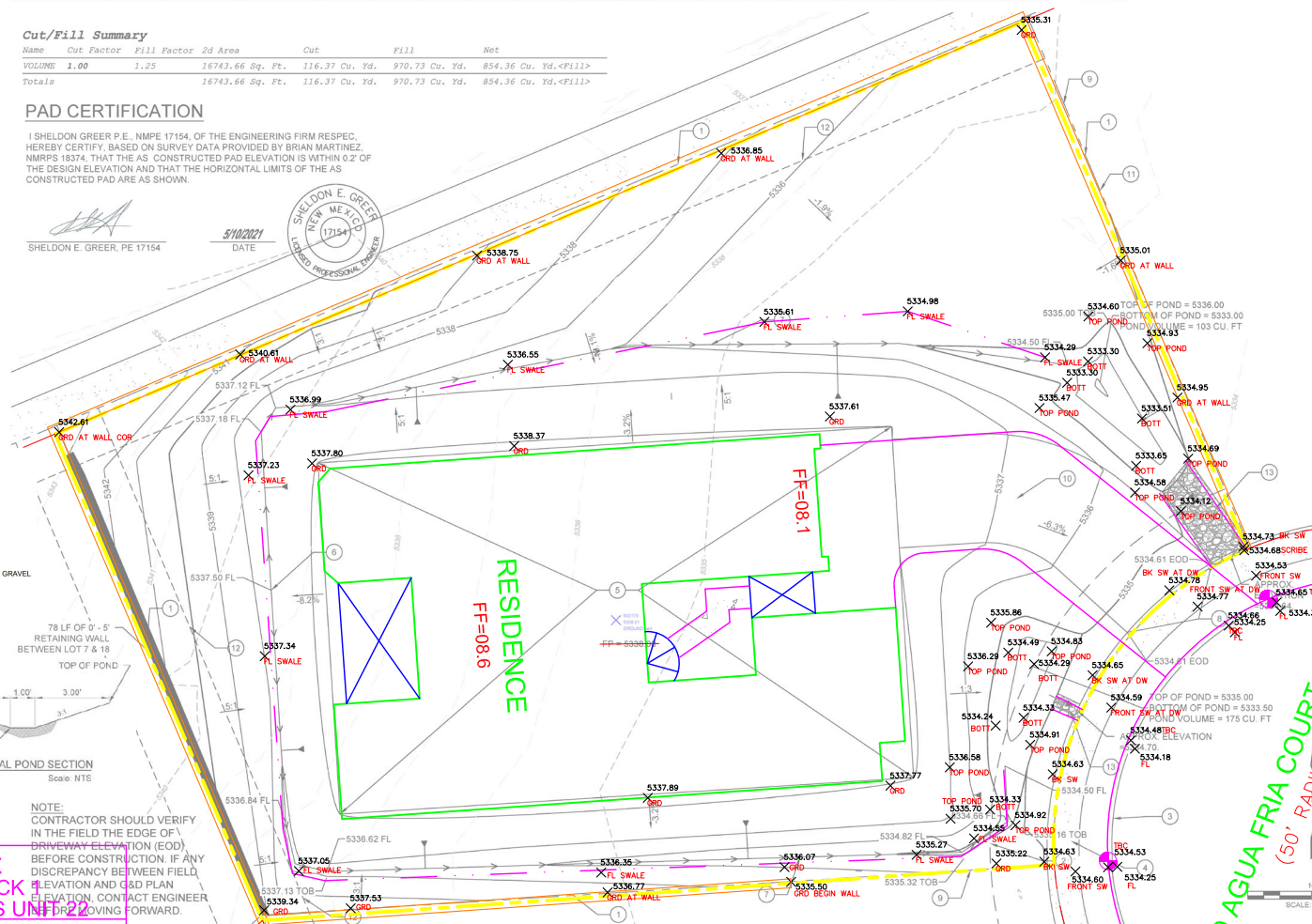
9. IF PERIMETER WALL IS INSTALLED THEN PROVIDE TURNED BLOCK TO ALLOW FOR CROSS LOT DRAINAGE.

10. PROPOSED DRIVEWAY LOCATION. DRIVEWAY PERMIT BY OTHERS

11. EXISTING WALL ADJACENT TO PROPERTY (RETAINING WALL MAY HAVE TO BE ADJUSTED WHEN EXISTING WALL ARE ENCOUNTERED.)

12. EXISTING 7' P.U.E.

13. 6" RIPRAP RUNDOWN



8019 AGUA FRIA COURT N.W.
(50' RADIUS)