CITY OF ALBUQUERQUE

Planning Department Suzanne Lubar, Director



September 27, 2017

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

RE: Lot 19 Block 4 Volcano Cliffs Unit 19 SAD 228 6539 Vista Del Prado NW Grading and Drainage Plan Engineers Stamp Date 8/18/17 (D10D003T19) Pad Certification Date 9/22/17

Dear Mr. Soule,

Based upon the information provided in your submittal received 9/25/17, this plan is approved for Building Permit.

PO Box 1293 Please inform the builder/owner to attach a copy of this approved plan and this letter to the construction sets in the permitting process prior to sign-off by Hydrology. Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained, with the approved G&D plan dated 8/18/17.

Albuquerque

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist of this plan will be required.

NM 87103

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

www.cabq.gov

Sincerely, W. Bufles

James D. Hughes, P.E. // Principal Engineer, Hydrology Planning Department

RR/JDH 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 #: d10d003t19
	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:
DEPARTMENT: HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL TYPE OF SUBMITTAL: ENCIMEED / ADCUMPTCT, CEDITIE/CATION	CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT: BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY PRELIMINARY PLAT APPROVAL
ENGINEER/ ARCHITECT CERTIFICATION CONCEPTUAL G & D PLAN	SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL
GRADING PLAN	SIA/ RELEASE OF FINANCIAL GUARANTEE
DRAINAGE MASTER PLAN DRAINAGE REPORT	FOUNDATION PERMIT APPROVAL
CLOMR/LOMR	GRADING PERMIT APPROVAL SO-19 APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) EROSION & SEDIMENT CONTROL PLAN (ESC)	SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/PAD_CERTIFICATION WORK ORDER APPROVAL CLOMR/LOMR
OTHER (SPECIFY) IS THIS A RESUBMITTAL?: Yes No	PRE-DESIGN MEETING OTHER (SPECIFY)
DATE SUBMITTED:	_By:

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____

Weighted E Method														
												100-Yea	ar, 6-hr.	
Basin	Area	Area	Treat	ment A	Treat	ment B	Treat	ment C	Treat	ment D V	Veighted I	Volume	Flow	
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	
UPLAND	27131.00	0.623	0%	0	10%	0.062	40%	0.2491	50%	0.311	0.807	0.042		1.48
ALLOWED	14177.00	0.325	0%	0	10%	0.033	40%	0.1302	50%	0.163	1.448	0.039		1.15
PROPOSED	14177.00	0.325	0%	0	38%	0.124	32%	0.1041	30%	0.098	1.162	0.032		0.98
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 s	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 Conditons FIRST FLUSH WATER QUA	LITY VOLUME	
	REQUIRED	PROVIDED
	(CF)	(CF)
WATER QUALITY	121	999

Narrative

This site is within the SAD 226 Master Drainage plan boundaries. The site is to maintain existing patterns and

drain to the the adjacent roadway lot to east per the master drainage plan. We are ponding the water harvest volume generated by the site there is not measurable upland flow. This plan has a shallow water harvest pond in excess of the drainage regulations.

This plan is in conformance to the master drainage plan

TURNED BLOCKS

Weir Equation:

 $Q = CLH^{3/2}$

drainage thru walls

Q= 2.92 cfs $\tilde{C} = 2.95$ H = 0.5 ftL = Length of weir

 $Q = 2.95 * .5 * ((0.5)^{(3/2)})$

Each opening is 6"x6" Each block has two openings Each opening has .52 cfs capacity

UPLAND

Therefore 1.48 cfs requires 3 openings and 2 turned blocks

OUTFALL Therefore 2.46 cfs requires 5 openings and 3 turned blocks

END 2' EARTHEN /SWALE -

TURN 2 BLOCK

© 5316.75⁻

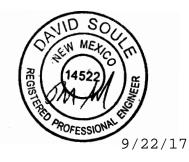
C1: R=451.88' L=103.22' C=103.00' CB=N81'56'18"E ?=13**'**05'18"

> SOUTHWEST CORNER WM CONC. PAD ELEVATION=5317.93

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.

I, DAVID SOULE HAVE PERSONALLY INPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 8/18/17



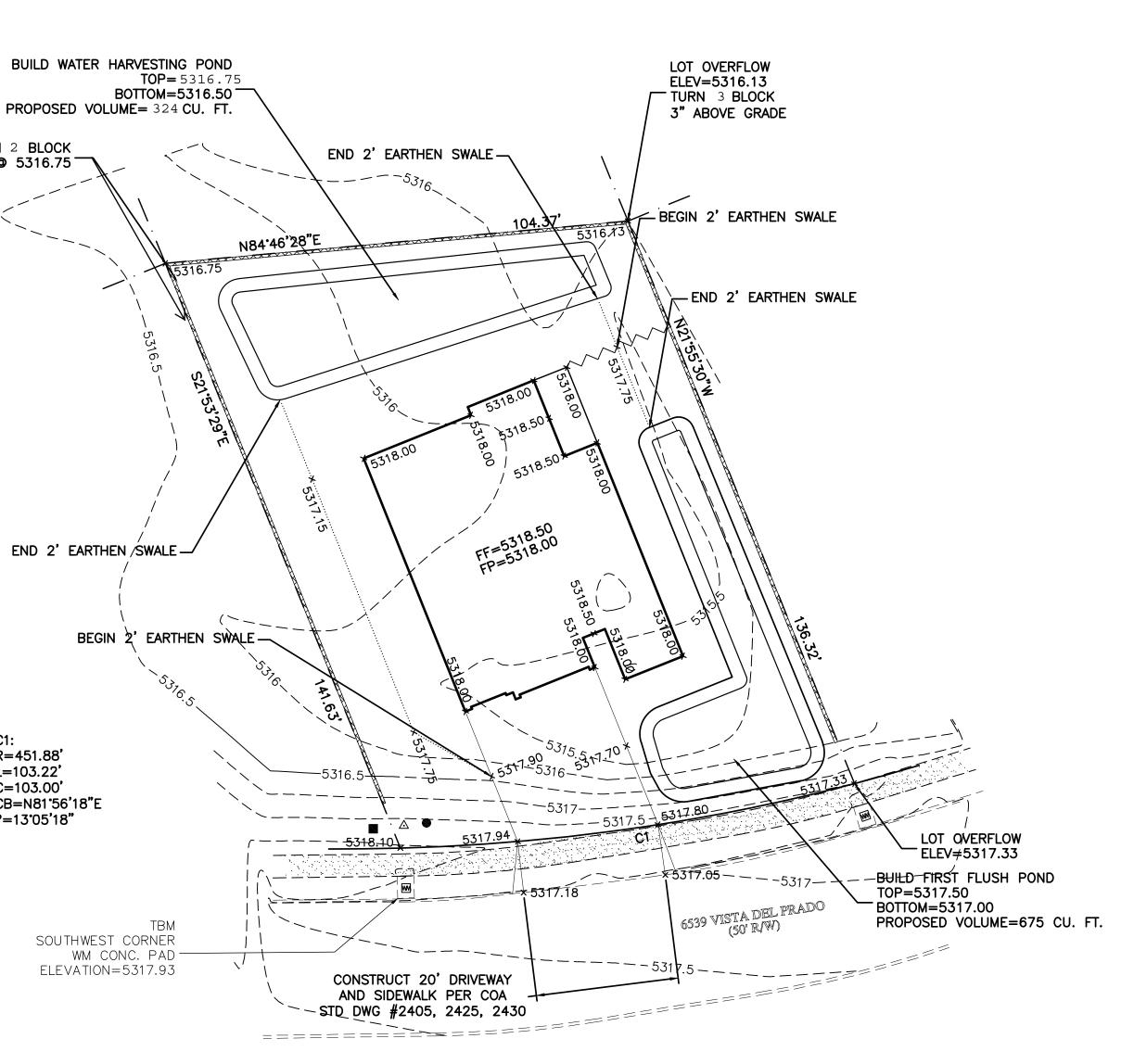
EROSION CONTROL NOTES: 1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

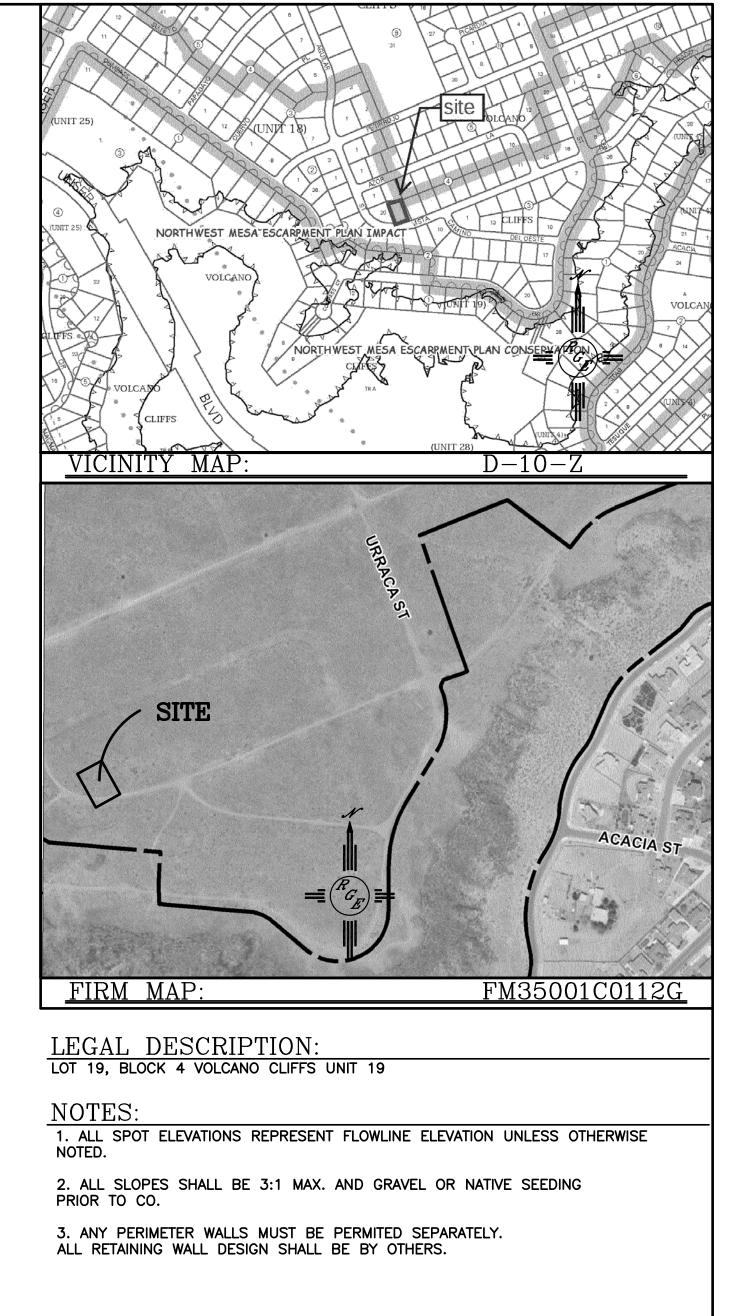
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.

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 ACCEPTANCE OF ANY PROJECT.





LEGEND

	- EXISTING CONTOUR							
- — — — — -xxxx— — — — — —	- EXISTING INDEX CONTOUR							
XXXX	- PROPOSED CONTOUR							
	- PROPOSED INDEX CONTOUR							
•	SLOPE TIE							
* XXXX	EXISTING SPOT ELEVATION							
× XXXX	PROPOSED SPOT ELEVATION							
	BOUNDARY							
	CENTERLINE							
	RIGHT-OF-WAY							
=============	EXISTING CURB AND GUTTER							
PROPOSED CMU SCREEN WALL 24" MAX RETAINAGE (DESIGN BY OTHERS)								
SEAL	3539 VISTA DEL PRADO	DRAWN ^{BY} _{WCWJ}						
VIID SOL	MAESTAS RESIDENCE	DATE						
OP JEW MEXICS IN	GRADING AND	8-19-17						
	DRAINAGE PLAN	21779-LAYOUT-8-18-17						
APOFESSIONAL E	Rio Grande	SHEET #						
		_						
8/18/17 =	Engineering							
	1606 CENTRAL AVENUE SE SUITE 201	JOB #						
DAVID SOULE P.E. #14522	ALBUQUERQUE, NM 87106 (505) 872–0999	21779						
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