CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



March 17, 2020

David Soule, P.E. Rio Grande Engineering P.O. Box 93924 Albuquerque, NM 87199

RE: 1009 Cuatro Cerros Trail SE **Grading and Drainage Plan** Engineer's Stamp Date: 03/10/20

Hydrology File: M22D018

Dear Mr. Soule:

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Based upon the information provided in your submittal received 03/10/20, the Grading and Drainage Plan is approved for Building Permit.

Once the grading is complete, a pad certification will be required prior to release of Building Permit. Please attach a copy of this approved plan in the construction sets for Building Permit

processing along with a copy of this letter and the pad certification approval letter.

Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer

Certification per the DPM checklist will be required.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology

Renée C. Brissette

Planning Department



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 1009 QUATRO CERROS DRB#: Legal Description: 10t 63 block 10 City Address: 1009 QUATRO CERROS	EPC#:	Work Order#:	
DILLY NINODOLLOUG		Contact:	
Phone#:		E-mail:	
Other Contact: RIO GRANDE ENGINE Address: PO BOX 93924 ALB NM	ERING 87199	Contact:DAVID SOUL	<u>E</u>
Phone#: 505.321.9099	Fax#: 505.872.0999	E-mail: david@riograndee	ngineering.com
TYPE OF DEVELOPMENT: PLAT			
Check all that Apply:			
DEPARTMENT: X HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMIT AT ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING? IS THIS A RESUBMITTAL?: Yes X No	EVENTIFICA EVENTFICA EVENTIFICA EVENTIFICA EVENTIFICA EVENTIFICA EVENTIF	SE OF FINANCIAL GUARANTE. ON PERMIT APPROVAL PERMIT APPROVAL ROVAL PAD CERTIFICATION ER APPROVAL MR IN DEVELOPMENT PERMIT ECIFY)	L
DATE SUBMITTED:	By:		_
COA STAFF:	ELECTRONIC SUBMITTAL RECEIVED:_		

FEE PAID:____

Weighted E Method QUATROCERROS

Existing Developed Basins

								100-Year, 6-hr.			10-DAY			
Basin	Area	Area	Treatment A Treatment B		Treatment C		Treatment D		Weighted E	Volume	Flow	Volume		
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	(ac-ft)
EXISTING	11386	0.261	50%	0.13069	50.0%	0.131	0.0%	0	0%	0.000	0.940	0.020	0.67	0.020
PROPOSED	11386	0.261	0%	0	24.0%	0.063	25.0%	0.06535	51%	0.133	1.971	0.043	1.13	0.061

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

PROVIDED

Where for 100-year, 6-hour storm (zone 4)

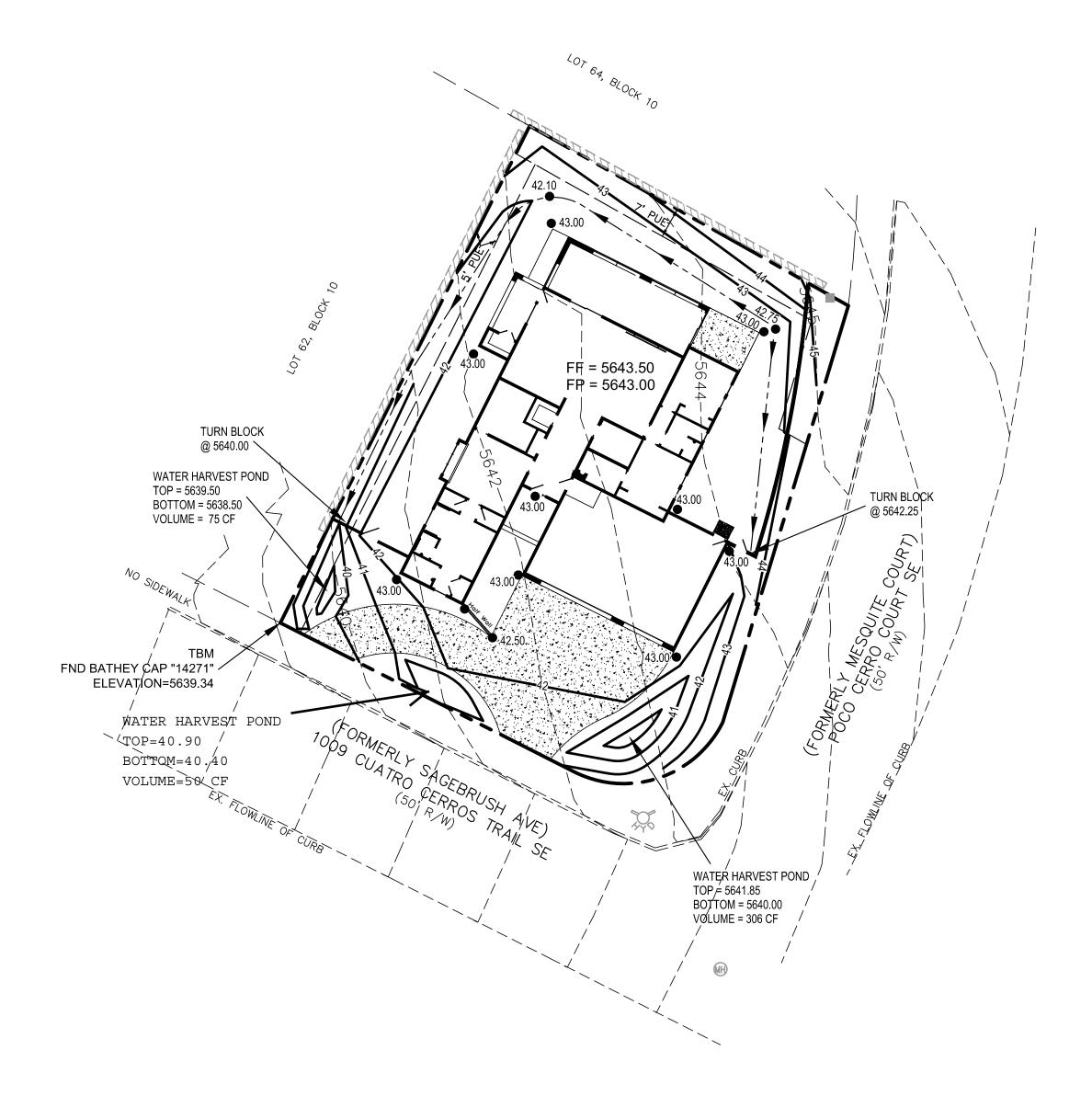
Qa= 2.2 Eb= 1.08 Qb= 2.92 Qc= 3.73 Ec= 1.46 Ed= 2.64 Qd= 5.25

FIRST FLUSH VOLUME FRONT 164.53 CF REQUIRED

THIS SITE IS A LOT WITHIN A FULLY DEVELOPED RESIDENTIAL SUBDIVISION. THE SITE IS CURRENTLY DRAINS 0.67 CFS TO THE ADJACENT ROADWAY AT THE SOUTHWES THE SUBDIVISON IS FULLY DEVELOPED AND ALL LOTS FREE DISCHARGE. THE DRAINAGE MANAGEMENT WILL REQUIRE THE LOT TO NOT INCREASE FLOW TO THE ADJAC

PROPERTY. THIS IS ACCOMPLISHED BY DRAINING THE HOUSE TO THE STREET WHILE RETAINING 431 CUBIC FEET FOR WATER QUALITY PURPOSES

431 **CF**

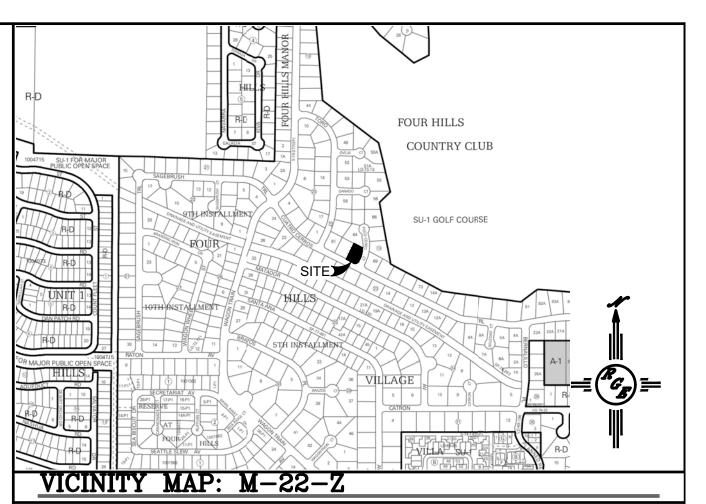


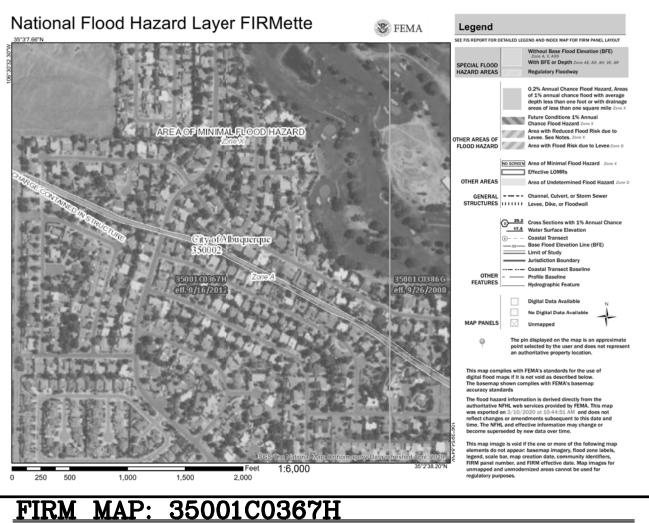
CAUTION:

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.

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.





LEGAL DESCRIPTION:

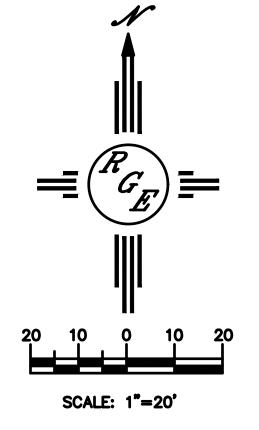
LOT 63, BLOCK 10 5 FOUR HILLS VILLAGE FIFTH INSTALLMENT CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

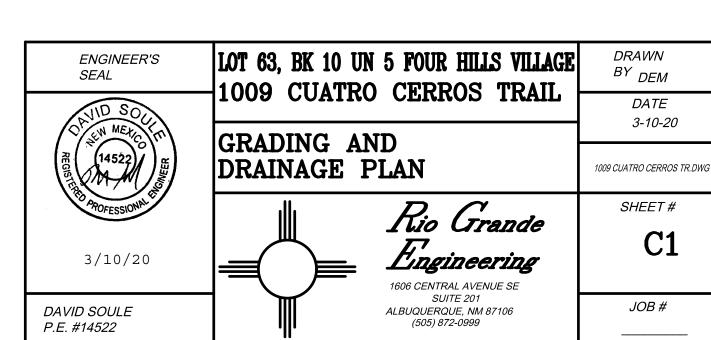
NOTES:

- 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 PERMITED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
- 4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD
- 5. A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING

LEGEND

---- EXISTING CONTOUR ---- EXISTING INDEX CONTOUR PROPOSED CONTOUR PROPOSED INDEX CONTOUR EXISTING SPOT ELEVATION × XXXX XXXX PROPOSED SPOT ELEVATION BOUNDARY PROPOSED EARTHEN SWALE — — — — ADJACENT BOUNDARY PROPOSED CONCRETE DRIVEWAY





DATE 3-10-20

SHEET#

JOB#

C1