

Weighted E Method

Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		100-Year, 6-hr.			
			%	(acres)	%	(acres)	%	(acres)	%	(acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	
ALLOWED	10903.00	0.250	100%	0.250298439	0%	0.000	0%	0	0%	0.000	0.530	0.011	0.39	
PROPOSED A	10903.00	0.250	0%		0	19%	0.048	35%	0.0876	46%	0.115	1.519	0.032	0.92

Equations:

Weighted E = Ea\**A*a + Eb\**A*b + Ec\**A*c + Ed\**A*d / (Total Area)

Volume = Weighted D \* Total Area

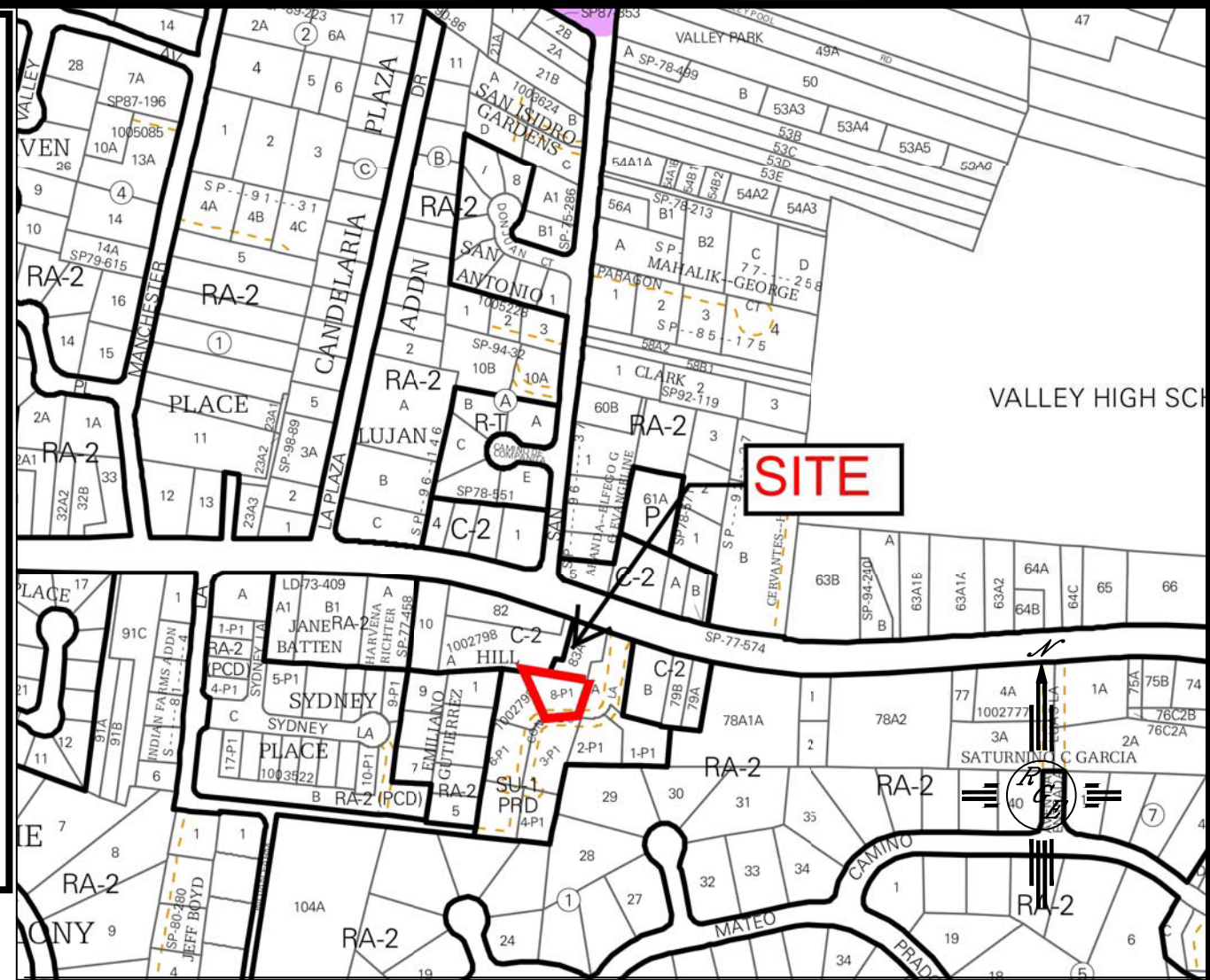
Flow = Qa \* *A*a + Qb \* *A*b + Qc \* *A*c + Qd \* *A*d

Where for 100-year, 6-hour storm

Ea= 0.53	Qa= 1.56
Eb= 0.78	Qb= 2.28
Ec= 1.13	Qc= 3.14
Ed= 2.12	Qd= 4.7

TOTAL PROVIDED 1425 CF  
TOTAL REQUIRED 1380 CF  
REQUIRED FOR WATER QUALITY 309 CF

DRAINAGE NARRATIVE- THE SITE IS LOCATED WITHIN A DEVELOPED SUBDIVISION. THE STREETS ARE PRIVATE AND DRAIN INTO THE LOTS. ONSITE PONDING IS REQUIRED. THE POND HAS BEEN SIZED TO ACCOMMODATE THE TOTAL VOLUME WHICH INCLUDES THE REQUIRED WATER QUALITY VOLUME



VICINITY MAP:



FIRM MAP:

FM35001C0331H

LEGAL DESCRIPTION:

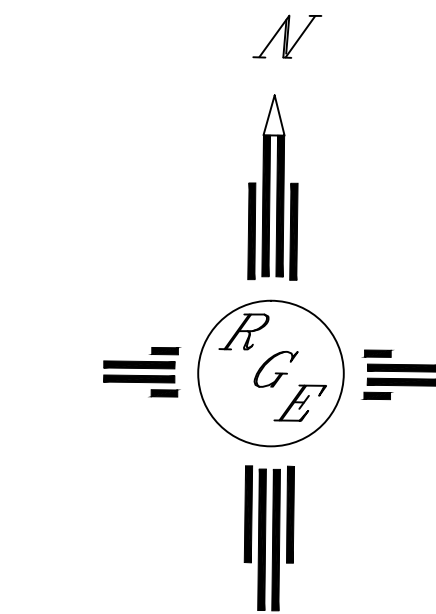
LOT 8-P-1 RANCHO DE CANDELARIA

NOTES:

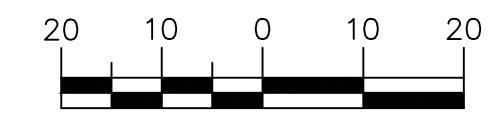
- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY HARRIS SURVEYING PLS 11463

LEGEND

- 5411--- EXISTING CONTOUR
- 5410--- EXISTING INDEX CONTOUR
- 5411--- PROPOSED CONTOUR
- 5410--- PROPOSED INDEX CONTOUR
- SWALE-FLOWLINE
- PROJECT BENCHMARK



GRAPHIC SCALE



SCALE: 1"=10'

EROSION CONTROL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING 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 RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

I David Soule, NMPE 14522, of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 8/5/14. The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The as-built survey was provided DAVID VIGIL NMPS 8911. The certification is submitted in support of a request for PERMANENT CERTIFICATE OF OCCUPANCY. The record information presented heron 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. The ponding is deeper than plan; required volume onsite for the 100-year event is provided







# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Lot 8 rancho candelaria Building Permit #: \_\_\_\_\_ City Drainage #: \_\_\_\_\_  
DRB#: \_\_\_\_\_ EPC#: \_\_\_\_\_ Work Order#: \_\_\_\_\_  
Legal Description: LOT 8 P-1 RANCHO DE CANDELARIA  
City Address: 6216 Camino Alto NW

**Engineering Firm:** RIO GRANDE ENGINEERING Contact: DAVID SOULE  
Address: PO BOX 93924, ALBUQUERQUE, NM 87199  
Phone#: 505.321.9099 Fax#: 505.872.0999 E-mail: DAVID@RIOGRANDEENGINEERING.COM

**Owner:** LAS VENTANAS,LLC Contact: SCOTT ASHCRAFTE  
Address: \_\_\_\_\_  
Phone#: 3623628 Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

**Architect:** N/S Contact: MATHEW  
Address: \_\_\_\_\_  
Phone#: \_\_\_\_\_ Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

**Surveyor:** TONY HARRIS Contact: JOHN GALLEGOS  
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### TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL G & D PLAN
- ☐ GRADING PLAN
- ☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ☐ ENGINEER'S CERT (HYDROLOGY)
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- ☐ SO-19
- ☐ OTHER (SPECIFY)

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- ☐ ESC CERT. ACCEPTANCE
- ☐ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED: ☐ Yes ☒ No ☐ Copy Provided  
DATE SUBMITTED: 8/5/14 By: \_\_\_\_\_

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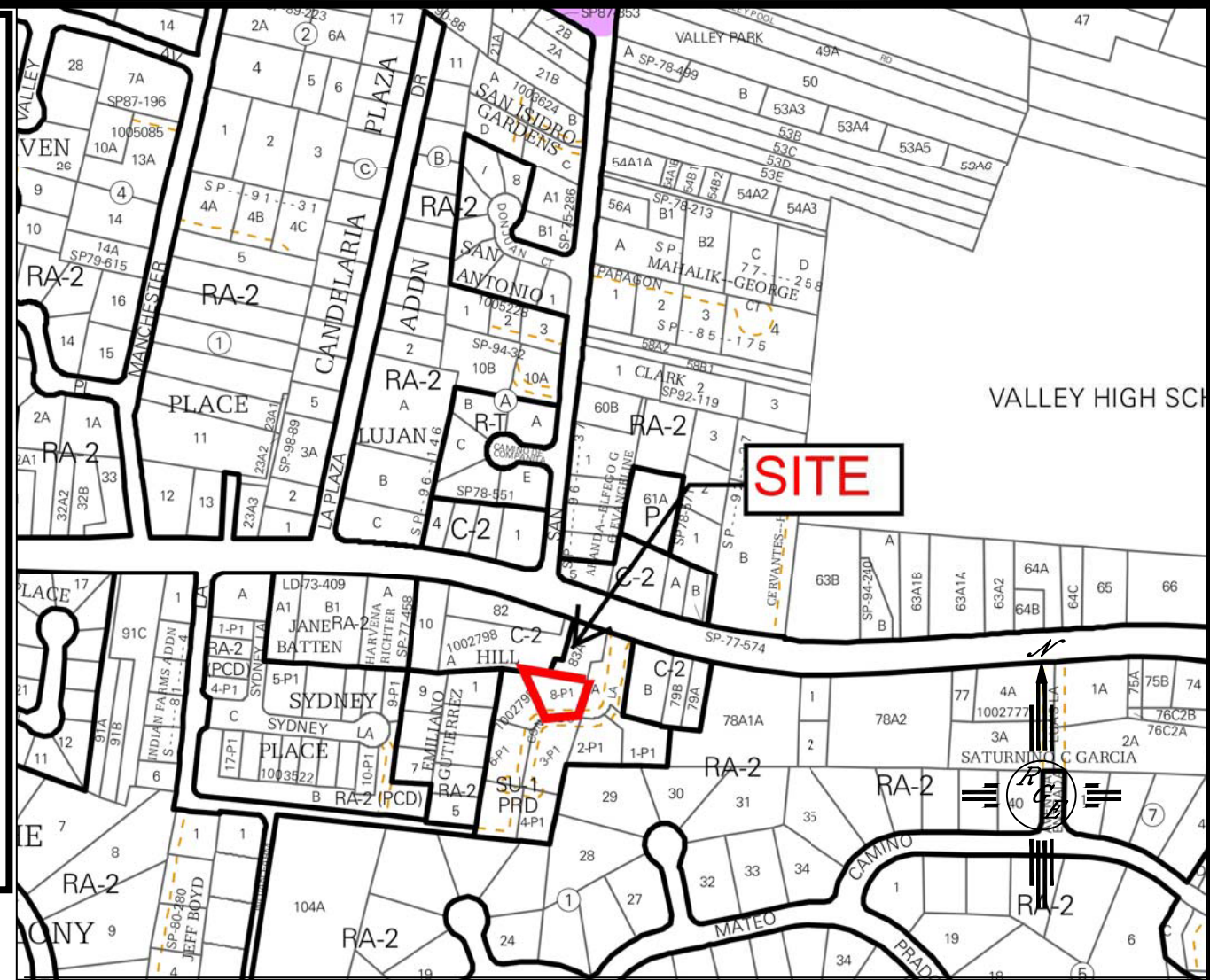
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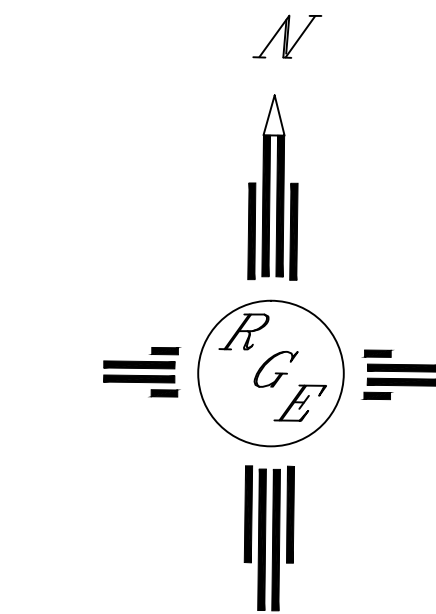
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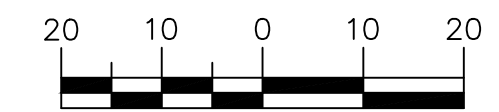
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# CITY OF ALBUQUERQUE



March 2, 2015

David Soule, PE  
Rio Grande Engineering  
1606 Central SE Suite 201  
Albuquerque, NM 87106

**Re: Rancho Candelaria  
3615 Conrado NW  
Request Permanent C.O. - Accepted  
Engineer's Stamp dated: 8-5-14 (G13D023C)  
Certification dated: 2-5-15**

Dear Mr. Soule,

Based on the Certification received 3/2/2015, the site is acceptable for release of Certificate of Occupancy by Hydrology.

PO Box 1293

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

Albuquerque

Sincerely,

Curtis Cherne, P.E.,  
Principal Engineer, Hydrology  
Planning Department

New Mexico 87103

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

C: RR/CC  
email