

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

April 9, 2025

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

RE: **Lot 29 Block 1 Unit 22 SAD 228**  
**8015 Canoncito Dr. NW**  
**Grading and Drainage Plan**  
**Engineers Stamp Date 4/1/2025 (D10D003N29)**

Mr. Soule,

Based upon the information provided in your submittal received 4/7/2025, this plan is approved for Grading Permit.

**Prior to Building permit approval, a Pad Certification will be required, provided by the Engineer or a registered Land Surveyor.**

**Advise the owner contractor not to use dirt as a ramp to climb the curb, use lumber or crusher fines for this purpose.**

Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained with the approved G&D plan and Pad Certification. Also, if a swimming pool is to be placed the grading and drainage plan will change and will need to be resubmitted.

**Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist is required.**

If you have any questions, please contact me at (505)924-3695 or Rudy Rael at (505)924-3977.

Sincerely,

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

RR/TC  
C: File D10D003N29



<p><b><u>Equations:</u></b></p> <p>Weighted E = Ea*<sup>2</sup>Aa + Eb*<sup>2</sup>Ab + Ec*<sup>2</sup>Ac + Ed*<sup>2</sup>Ad / (Total Area)</p> <p>Volume = Weighted D * Total Area</p> <p>Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad</p> <p>Where for 100-year, 6-hour storm- zone 1</p> <table style="width: 100%;"> <tr> <td>Ea= 0.65</td> <td>Qa= 1.54</td> </tr> <tr> <td>Eb= 0.73</td> <td>Qb= 2.16</td> </tr> <tr> <td>Ec= 0.85</td> <td>Qc= 2.87</td> </tr> <tr> <td>Ed= 2.24</td> <td>Qd= 4.12</td> </tr> </table> <p>ONSITE Conditions</p> <table style="width: 100%;"> <tr> <th style="text-align: left;">FIRST FLUSH WATER QUALITY REQUIRED (CF)</th> <th style="text-align: left;">PROVIDED (CF)</th> </tr> <tr> <td>WATER QUALITY 243</td> <td>251</td> </tr> <tr> <td>FLOOD CONTROL 173</td> <td>251</td> </tr> </table> <p>Narrative</p>	Ea= 0.65	Qa= 1.54	Eb= 0.73	Qb= 2.16	Ec= 0.85	Qc= 2.87	Ed= 2.24	Qd= 4.12	FIRST FLUSH WATER QUALITY REQUIRED (CF)	PROVIDED (CF)	WATER QUALITY 243	251	FLOOD CONTROL 173	251	<p>City of Albuquerque Planning Department Development Review Services</p> <p><b>HYDROLOGY SECTION</b></p> <p><b>APPROVED</b></p> <p>DATE: 4/9/2025</p> <p>BY: <u>Wagner Chan</u></p> <p>HydroTran # D10D003N29</p> <p>THE APPROVAL OF THESE PLANS PERMITS SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUESTING CORRECTIONS FOR ERRORS OR OMISSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTION DOCUMENTS. SUCH APPROVED PLANS PERMITS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.</p> <p>THE APPROVAL OF THESE PLANS PERMITS SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE IF NO BUILDING PERMIT HAS BEEN FILED ON THE DEVELOPMENT.</p>
Ea= 0.65	Qa= 1.54														
Eb= 0.73	Qb= 2.16														
Ec= 0.85	Qc= 2.87														
Ed= 2.24	Qd= 4.12														
FIRST FLUSH WATER QUALITY REQUIRED (CF)	PROVIDED (CF)														
WATER QUALITY 243	251														
FLOOD CONTROL 173	251														

0-2' RETAINAGE AT  
EXISTING WALL ADD  
WALL INSIDE EXISTING

5331.76  
X  
EXIST  
TW= 31.33  
BW= 30.00  
5329.42  
31.00  
3.35

5330.83 TW= 32.66  
BW= 30.00

5328.87<sup>x</sup>

Figure 1: A schematic diagram of a 2D lattice with various types of bonds. The lattice is represented by a grid of points. Bonds are shown as lines connecting points. A thick solid line represents a 'strong bond'. A dashed line represents a 'weak bond'. A dotted line represents a 'very weak bond'. A line with an arrow represents a 'directed bond'. A line with a crossbar represents a 'crossed bond'. A line with a dot represents a 'bond with a dot'. A line with a circle represents a 'bond with a circle'. A line with a square represents a 'bond with a square'. A line with a triangle represents a 'bond with a triangle'. A line with a diamond represents a 'bond with a diamond'. A line with a hexagon represents a 'bond with a hexagon'. A line with an octagon represents a 'bond with an octagon'. A line with a star represents a 'bond with a star'. A line with a cross represents a 'bond with a cross'. A line with a plus sign represents a 'bond with a plus sign'. A line with a minus sign represents a 'bond with a minus sign'. A line with a multiplication sign represents a 'bond with a multiplication sign'. A line with a division sign represents a 'bond with a division sign'. A line with a percent sign represents a 'bond with a percent sign'. A line with a hash symbol represents a 'bond with a hash symbol'. A line with a dollar sign represents a 'bond with a dollar sign'. A line with a copyright symbol represents a 'bond with a copyright symbol'. A line with a registered trademark symbol represents a 'bond with a registered trademark symbol'. A line with a trademark symbol represents a 'bond with a trademark symbol'. A line with a service mark symbol represents a 'bond with a service mark symbol'. A line with a patent symbol represents a 'bond with a patent symbol'.

5329.90

Unit 1

22

5330.01  
X-----5330-----

\_\_\_\_\_

TW= 32.66  
RW= 30.00

**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.

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[illegible][illegible]

**VICINITY MAP: D-10-0-Z**

**National Flood Hazard Layer FIRMette**

**Legend**

**SPECIAL FLOOD HAZARD AREAS**

**1% Annual Chance Flood Elevation (FEF)**  
 1% Annual Chance Flood Elevation (FEF)  
 1% Annual Chance Flood Elevation (FEF)  
 1% Annual Chance Flood Elevation (FEF)

**0.2% Annual Chance Flood Elevation (FEF)**  
 0.2% Annual Chance Flood Elevation (FEF)  
 0.2% Annual Chance Flood Elevation (FEF)  
 0.2% Annual Chance Flood Elevation (FEF)

**OTHER AREAS OF FLOOD HAZARD**

**Area of Minimal Flood Hazard**  
 Area of Minimal Flood Hazard  
 Area of Minimal Flood Hazard  
 Area of Minimal Flood Hazard

**GENERAL STRUCTURES**

**1% Annual Chance Flood Elevation (FEF)**  
 1% Annual Chance Flood Elevation (FEF)  
 1% Annual Chance Flood Elevation (FEF)  
 1% Annual Chance Flood Elevation (FEF)

**0.2% Annual Chance Flood Elevation (FEF)**  
 0.2% Annual Chance Flood Elevation (FEF)  
 0.2% Annual Chance Flood Elevation (FEF)  
 0.2% Annual Chance Flood Elevation (FEF)

**FEATURES**

**1% Annual Chance Flood Elevation (FEF)**  
 1% Annual Chance Flood Elevation (FEF)  
 1% Annual Chance Flood Elevation (FEF)  
 1% Annual Chance Flood Elevation (FEF)

**0.2% Annual Chance Flood Elevation (FEF)**  
 0.2% Annual Chance Flood Elevation (FEF)  
 0.2% Annual Chance Flood Elevation (FEF)  
 0.2% Annual Chance Flood Elevation (FEF)

**MAP PANELS**

**1% Annual Chance Flood Elevation (FEF)**  
 1% Annual Chance Flood Elevation (FEF)  
 1% Annual Chance Flood Elevation (FEF)  
 1% Annual Chance Flood Elevation (FEF)

**0.2% Annual Chance Flood Elevation (FEF)**  
 0.2% Annual Chance Flood Elevation (FEF)  
 0.2% Annual Chance Flood Elevation (FEF)  
 0.2% Annual Chance Flood Elevation (FEF)

**Scale:** 0, 250, 500, 1,000, 1,500, 2,000 Feet

**Basemap Imagery Source:** USGS National Map 2022

**Map Information:**  
 VICINITY MAP: D-10-0-Z  
 10/01/10 11:12  
 10/01/10 11:12

**Map Labels:**  
 VICINITY MAP: D-10-0-Z  
 10/01/10 11:12  
 10/01/10 11:12

**Map Features:**  
 VICINITY MAP: D-10-0-Z  
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 10/01/10 11:12

**Map Legend:**  
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**Map Scale:**  
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**Map Source:**  
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**Map Date:**  
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**Map Author:**  
 VICINITY MAP: D-10-0-Z  
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**Map Title:**  
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**Map Description:**  
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**Map Notes:**  
 VICINITY MAP: D-10-0-Z  
 10/01/10 11:12  
 10/01/10 11:12

**Map Footer:**  
 VICINITY MAP: D-10-0-Z  
 10/01/10 11:12  
 10/01/10 11:12

**FIRM MAP:** \_\_\_\_\_


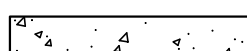
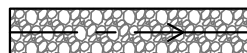
**LEGAL DESCRIPTION:** \_\_\_\_\_



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 PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
5. LONG TERM MAINTAINANCE OF ALL PONDS, SWALES AND OVERFLOWS IS REQUIRED
6. A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING

# LEGEND

-----XXXX-----	EXISTING CONTOUR
-----XXXX-----	EXISTING INDEX CONTOUR
=====XXXX=====	PROPOSED CONTOUR
=====XXXX=====	PROPOSED INDEX CONTOUR
• XXXX	EXISTING SPOT ELEVATION
● XXXX	PROPOSED SPOT ELEVATION
=====	BOUNDARY
-----	ADJACENT BOUNDARY
=====	EXISTING CURB AND GUTTER
←-----←	PROPOSED EARTHEN SWALE
=====	PROPOSED RETAINING WALL
	PROPOSED GRAVEL
	PROPOSED CONCRETE
	PROPOSED 2' WIDE COBBLE SWALE

<p>ENGINEER'S SEAL</p>	<p><b>LOT 29 BLK 1 U 22 VC 8015 CANONCITO DRIVE NW</b></p>		<p>DRAWN BY DEM</p>
	<p><b>GRADING AND DRAINAGE PLAN</b></p>		<p>DATE 3-30-25</p>
	 <p><i>Rio Grande Engineering</i></p> <p>PO BOX 83824 ALBUQUERQUE, NM 87189 (505) 321-9099</p>		<p>SHEET # <b>C1</b></p>
<p>4/1/25</p> <p>DAVID SOULE P.E. #14522</p>			<p>JOB # _____</p>