

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

December 19, 2023

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

**RE: 4916 Cresta Del Sur Ct NE**  
**Grading and Drainage Plan**  
**Engineer's Stamp Date: 11/28/23**  
**Hydrology File: F23D007A**

Dear Mr. Soule:

Based upon the information provided in your submittal received 11/28/2023, the Grading and Drainage Plans are approved for Building Permit and Grading Permit. **Since this site has retaining walls, a pad certification is not needed for this project.** Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PRIOR TO CERTIFICATE OF OCCUPANCY:

1. Engineer's Certification, per the DPM Part 6-14 (F): Engineer's Certification Checklist For Non-Subdivision is required.

If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov).

Sincerely,

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





## Weighted E Method

per city of Albuquerque Development Process Manual- chapter 22

**Equations:**

$$\text{Weighted E} = \frac{E_a \cdot A_a + E_b \cdot A_b + E_c \cdot A_c + E_d \cdot A_d}{\text{Total Area}}$$

$$\text{Volume} = \text{Weighted D} * \text{Total Area}$$

$$\text{Flow} = Q_a * A_a + Q_b * A_b + Q_c * A_c + Q_d * A_d$$

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

Ea= 0.76	Qa= 2.09
Eb= 0.95	Qb= 2.73
Ec= 1.2	Qc= 3.41
Ed= 3.34	Qd= 4.78

ALLOWED DISCHARGE	0.068	CFS
PROPOSED DISCHARGE	0.063	CFS

## DRAINAGE NARRATIVE

THIS SITE IS GOVERNED BY THE TRAIL HEAD SUBDIVISION(F23-D7) THE DOWN STREAM IMPROVEMENTS ARE IN PLACE. THE PROPOSED PROJECT WILL BE A SINGLE FAMILY RESIDENTIAL HOUSE. PER THE APPROVED MASTER PLAN, THE SITE MUST MATCH THE PROPOSED 100-YEAR, 6-HOUR PEAK DISCHARGE RATE ASSIGNED IN THE MASTER PLAN. THE APPROVED BASIN MAP WAS NOT IN DRAINAGE FILE. THEREFORE WE TOOK THE AVERAGE OF BASIN 2.3.5 TO DETERMINE FLOW FOR LOTS

City of Albuquerque  
Planning Department  
Development Review Services  
**HYDROLOGY SECTION**  
**APPROVED**  
DATE: 12/19/23  
BY: *Renee Brincetti*  
HydroTrans F23D007A

THE APPROVAL OF THESE PLANS/PERMIT SHALL NOT BE  
CONSIDERED A GUARANTEE, WARRANTY, OR  
INDICATION OF THE CITY OF ALBUQUERQUE'S  
COMPLETION OF ANY INVESTIGATION, OR  
FORGETFULNESS, OR ERROR OR OMISSION IN PLANS,  
SPECIFICATIONS, OR CONDITIONS, OR ANY  
MISAPPLICATION, OR MISINTERPRETATION, OR  
MISUSE. THESE PLANS/PERMIT SHALL NOT BE  
CHANGED, MODIFIED OR ALTERED WITHOUT  
AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE  
TWO (2) YEARS AFTER THE APPROVAL DATE. IF CITY IF NO  
BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.

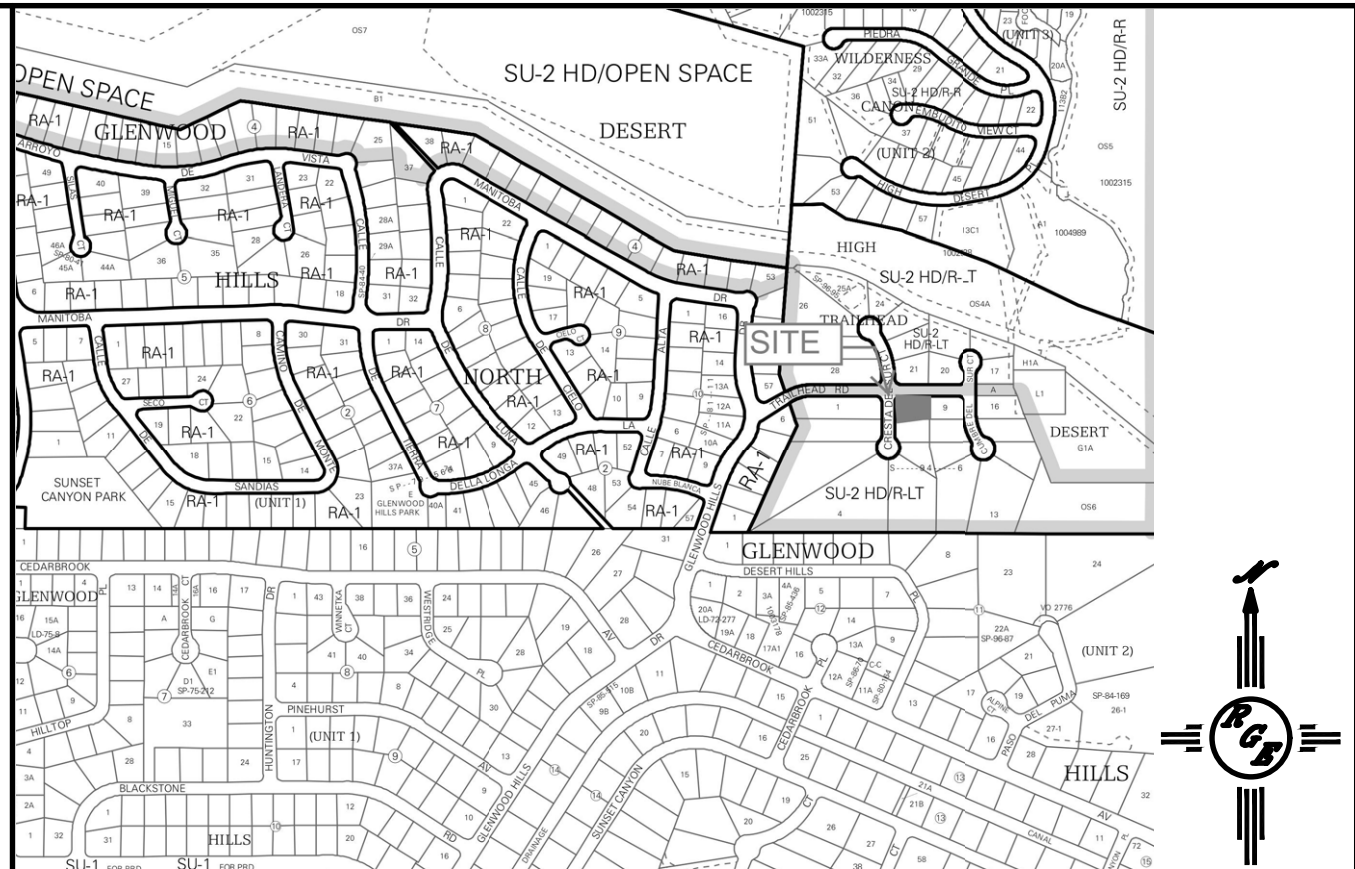
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

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

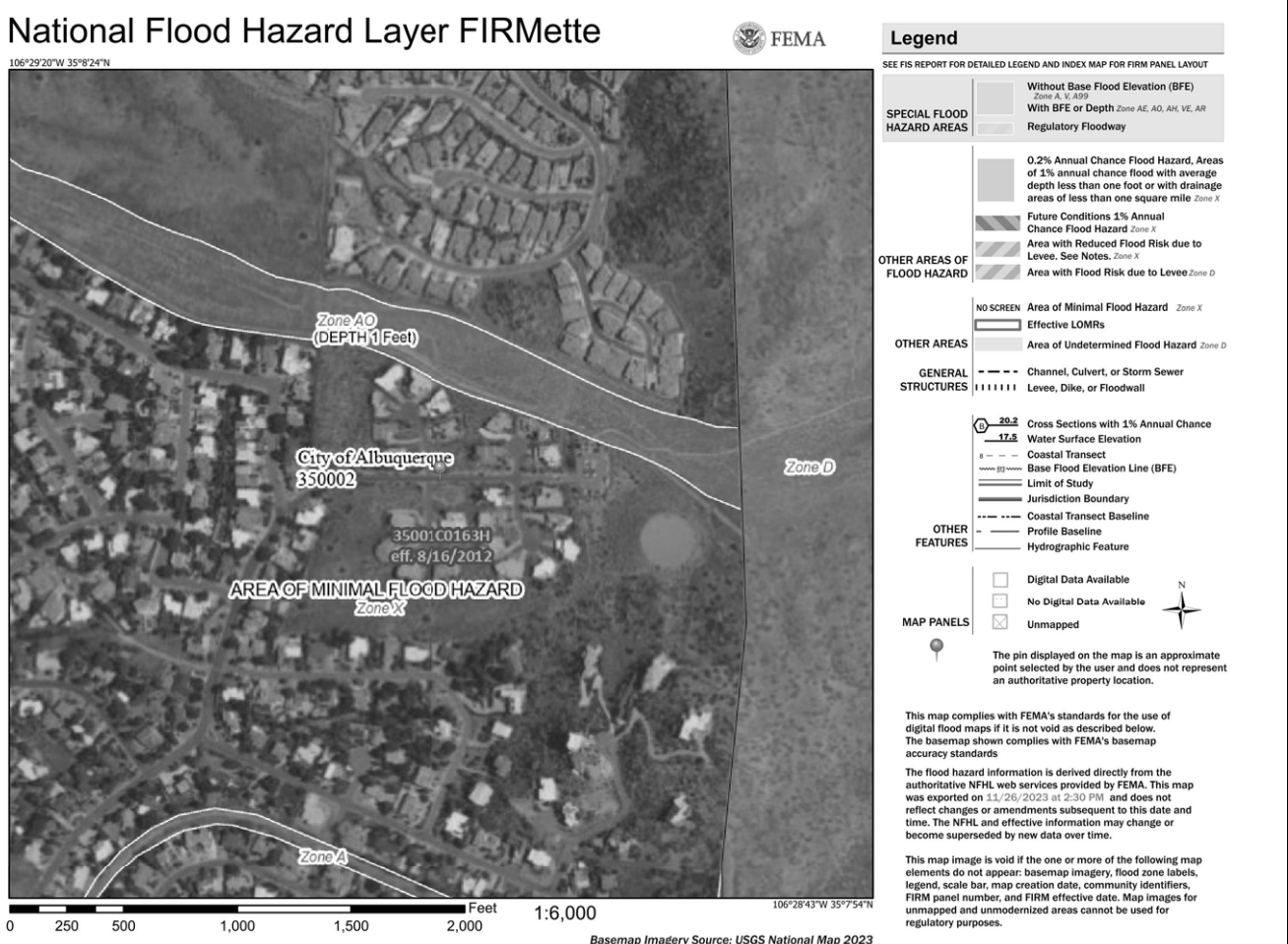
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.

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.



**VICINITY MAP: F-23-Z**



**FIRM MAP:**


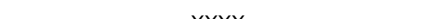






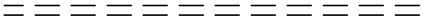


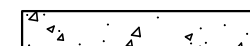
### LEGAL DESCRIPTION:

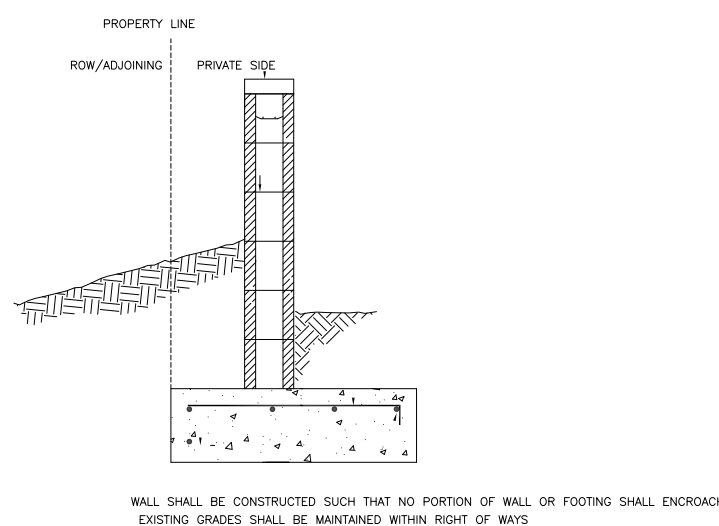
LOT 8 TRAILHEAD SUBDIVISION  
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

**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 NAV DATUM 1988.
5. A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

## LEGEND

	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
	PROPOSED CONTOUR
	PROPOSED INDEX CONTOUR
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	BOUNDARY
	ADJACENT BOUNDARY
	EXISTING CURB AND GUTTER
	PROPOSED EARTHEN SUALE
	PROPOSED RETAINING WALL (REFER TO DETAIL AT ALL PROPERTY LINES)
	PROPOSED CONCRETE



WALL DETAILS AT ALL PROPERTY BOUNDARIES

