

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

October 1, 2025

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: 8/24/25**  
**Hydrology File: F23D007A**  
**Case # HYDR-2025-00347**

Dear Mr. Soule:

PO Box 1293

Based upon the information provided in your submittal received 9/29/2025, the Grading and Drainage Plans are approved for Building 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.

Albuquerque

NM 87103

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, [jhughes@cabq.gov](mailto:jhughes@cabq.gov), 505-924-3420) 14 days prior to any earth disturbance.

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

**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 505-924-3314 or [amontoya@cabq.gov](mailto:amontoya@cabq.gov).

Sincerely,

Anthony Montoya, Jr., P.E., C.F.M.  
Senior Engineer, Hydrology  
Planning Department, Development Review Services



SITE HYDROLOGY

**Weighted E Method**  
per city of Albuquerque Development Process Manual- chapter 22

Existing Developed Basins										100-Year, 6-hr.		10-day		
Basin	Area (sf)	Area (acres)	Treatment A %	Treatment B %	Treatment C %	Treatment D %	Treatment E %	Treatment F %	Treatment G %	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)	
EXISTING	12060.00	0.277	50%	0.1384	50%	0.138	0%	0%	0.000	0.855	0.020	0.87	0.020	
ALLOWED	12060.00	0.277	0%	0.0000	26.0%	0.072	26.0%	0.09198	48%	0.133	2.162	0.050	1.08	0.068
PROPOSED	12060.00	0.277	0%	0.0000	24.0%	0.066	33.0%	0.09136	43%	0.119	2.060	0.048	1.06	0.063

**Equations:**

Weighted E = Ea\*Aa + Eb\*Ab + Ec\*Ac + Ed\*Ad / (Total Area)

Volume = Weighted D \* Total Area

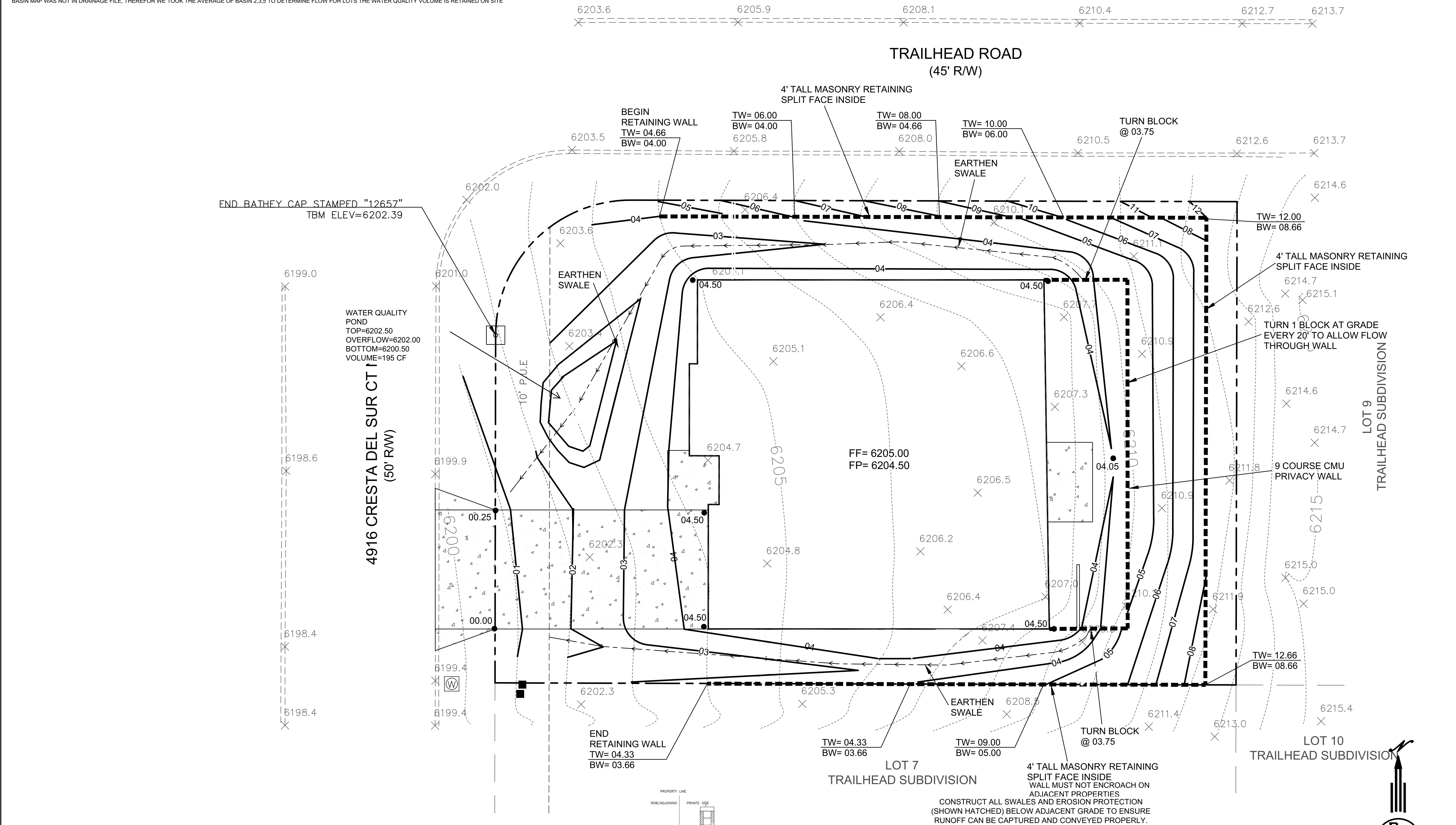
Flow = Qa \* Aa + Qb \* Ab + Qc \* Ac + Qd \* Ad

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

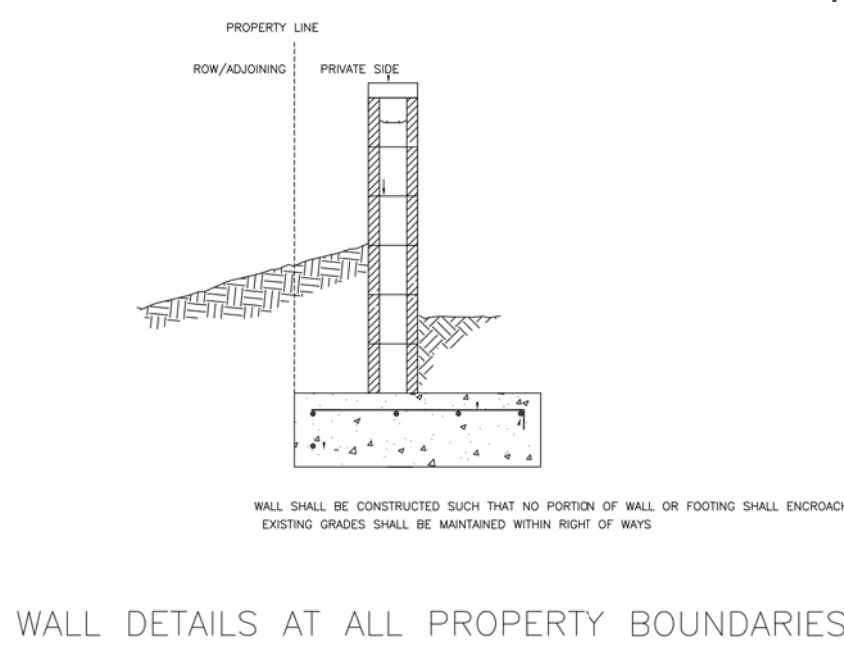
Ea= 0.76	Qa= 2.09
Eb= 0.95	Qb= 2.73
Ec= 1.2	Qc= 3.41
Ed= 3.34	Qd= 4.78

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, THEREFOR WE TOOK THE AVERAGE OF BASIN 2,3,5 TO DETERMINE FLOW FOR LOTS THE WATER QUALITY VOLUME IS RETAINED ON SITE



**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.



**EARTHEN SWALE**  
NTS

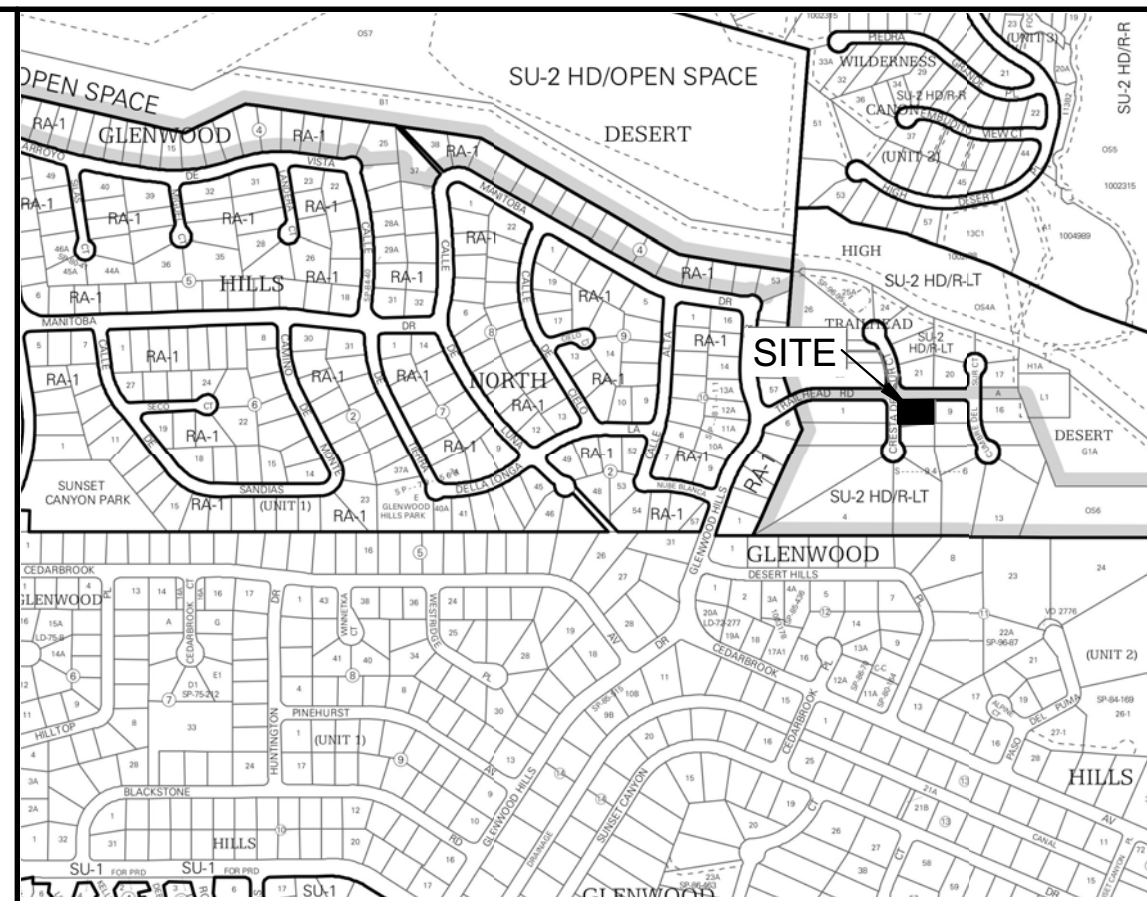
City of Albuquerque  
Planning Department  
Development Review Services  
**HYDROLOGY SECTION**  
**APPROVED**  
10/01/2025

DATE: 10/01/2025  
BY: [Signature]  
HydroTeam #: F23D007A

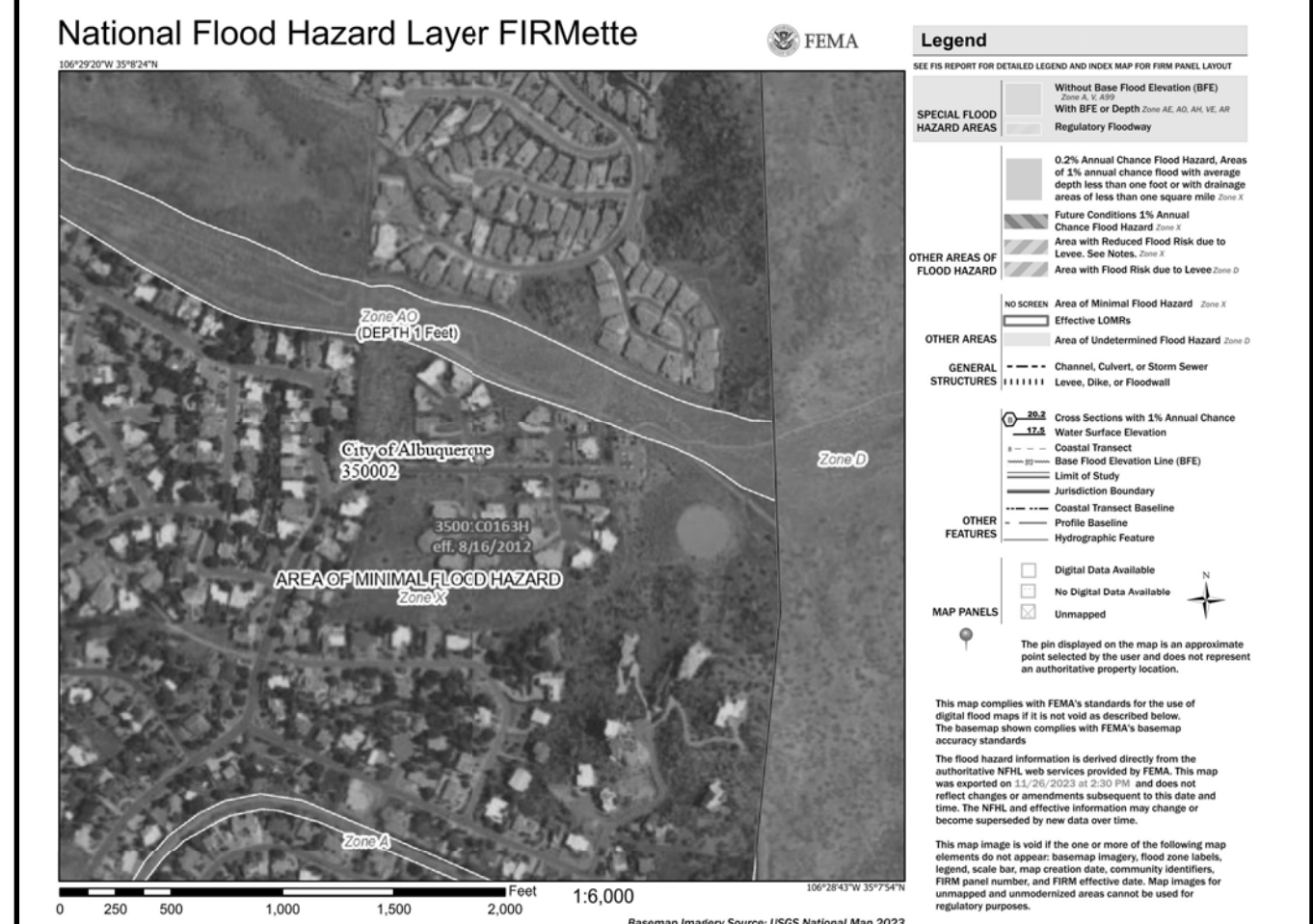
THE APPROVAL OF THESE PLANS/REPORTS SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM MAKING CORRECTIONS FOR ERRORS OR DIMENSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTION DOCUMENTS, SUCH AS APPROVED PLANS/REPORTS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION. THE APPROVAL OF THESE PLANS/REPORTS SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.

**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.



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

**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 CONCRETE



ENGINEER'S SEAL	<b>LOT 8 TRAILHEAD SUB.</b> <b>4916 CRESTA DEL SUR CT</b>	DRAWN BY DEM
	<b>GRADING AND DRAINAGE PLAN</b>	DATE 11-17-23
8/24/25		4916 CRESTA DEL SUR CT.DWG
DAVID SOULE P.E. #14522	P.O. BOX 53924 ALBUQUERQUE, NM 87199 (505) 321-9099	SHEET # C1
		JOB #