

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

March 24, 2026

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

**RE: 908 Cagua Dr NE**  
**Grading and Drainage Plan**  
**Engineer's Stamp Date: 03/23/2026**  
**Hydrology File: K18D115**  
**Case # HYDR-2026-00100**

Dear Mr. Soule:

Based upon the information provided in your submittal received 03/23/2026, the Grading and Drainage Plan is approved for Grading Permit and 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.

PO Box 1293

**PRIOR TO CERTIFICATE OF OCCUPANCY:**

Albuquerque

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

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)

If you have any questions, please contact me at 505-924-3995 or [baileythompson@cabq.gov](mailto:baileythompson@cabq.gov).

Sincerely,

Bailey Thompson, E.I.T.  
Engineer Associate, Hydrology  
Planning Department, Development Review Services

Weighted E Method

Basin	Area (sf)	Area (acres)	100 Year, 6-hr				100 Yr 24-HOUR						
			Treatment A	Treatment B	Treatment C	Treatment D	Weighted E	Volume	Flow	Volume			
HISTORICAL	6067.00	0.139	0%	20%	0.028	34%	0.047	46%	0.064	1.729	0.020	0.51	0.024
PROPOSED	6067.00	0.139	0%	15%	0.021	35%	0.049	50%	0.070	1.801	0.021	0.52	0.026

Equations:

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

Volume = Weighted E \* Total Area

PER DPM 6.5(A)

REQUIRED RETENTION

126 cubic feet

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

Where for 100-year, 6-hour storm(zone3)

Ea= 0.87	Qa= 1.84
Eb= 0.86	Qb= 2.49
Ec= 1.09	Qc= 3.17
Ed= 2.58	Qd= 4.49

Developed Conditions

TOTAL VOLUME

GENERATED

RETAINED

DISCHARGE PROPOSED	0.52 CFS	1113 CF
EXISTING DISCHARGE	0.51 CFS	1060 CF
DIFFERENCE	0.01 CFS	52.13 CF
PONDING PROVIDED		179 CF

This site is a redevelopment of a previously developed lot. The site lies within the 1959 boundaries. The existing house was demolished at some point in the past (1959 areal on GIS shows). There is no master drainage plan for this area, all lots currently free discharge. The drainage solution is to retain 1/2" of rainfall for each square foot of impervious area of redevelopment

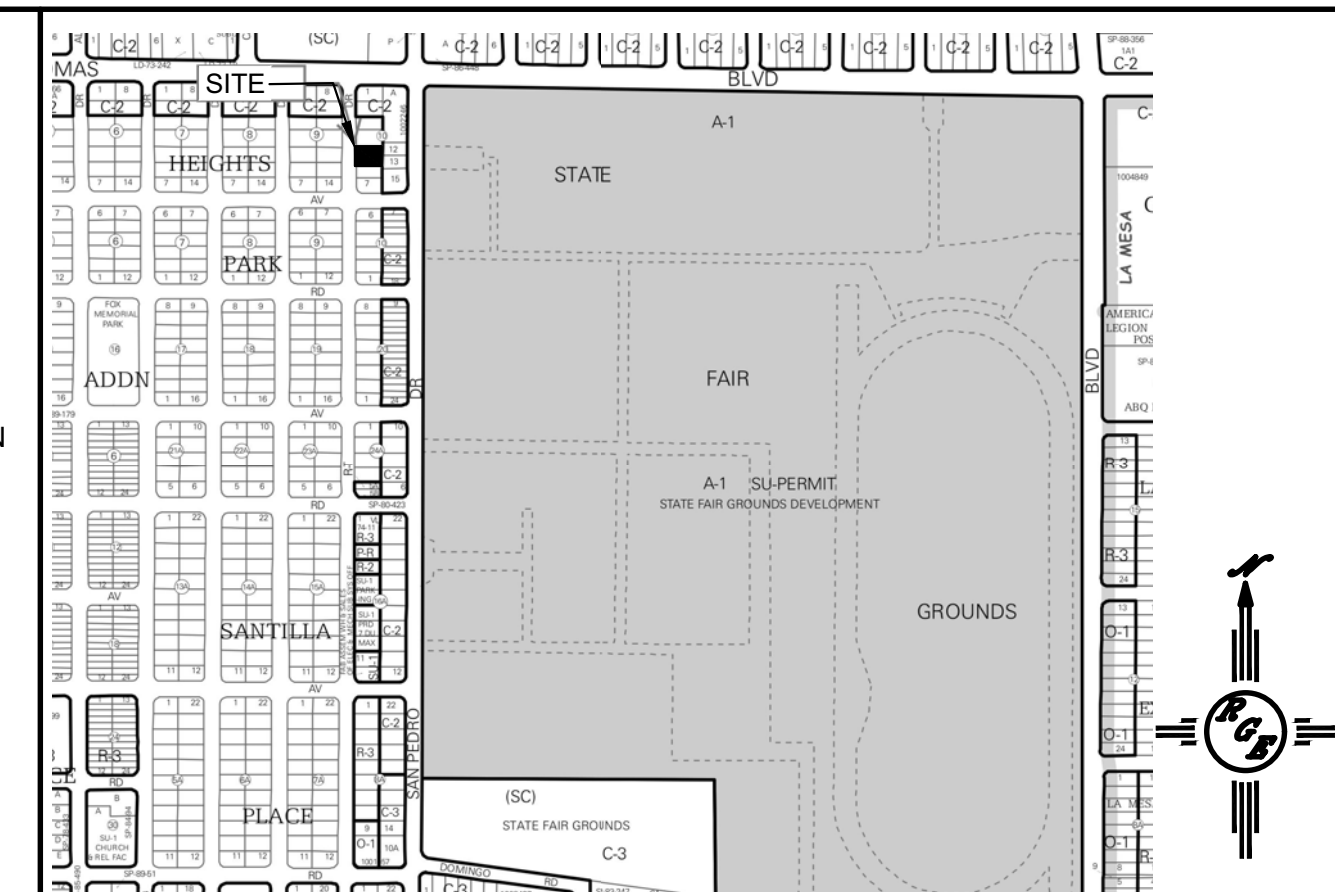
**City of Albuquerque  
Planning Department  
Development Review Services  
HYDROLOGY SECTION  
APPROVED**

DATE: 3/24/2026  
BY: [Signature]  
HydroTans: K18D115

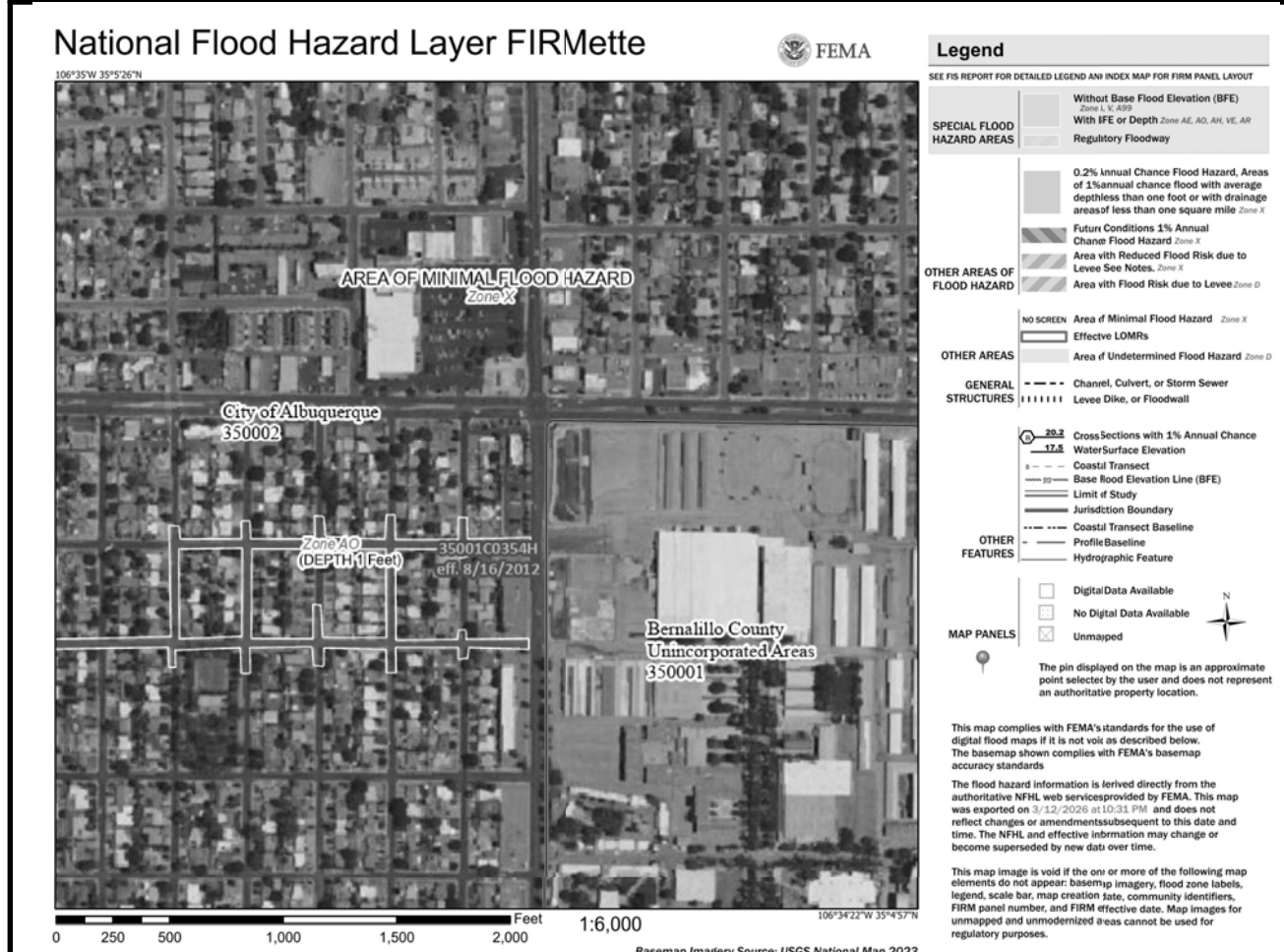
THE APPROVAL OF THESE PLANS/REPORTS SHALL NOT BE CONSTRUED TO PERMIT VIOLATION OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTIONS FOR ERRORS OR OMISSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTION DOCUMENTS. SUCH APPROVED PLANS/REPORTS SHALL NOT 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 FILED ON THE DEVELOPMENT.

**EROSION CONTROL NOTES:**

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOP SOIL 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 ACCEPTANCE OF ANY PROJECT.



VICINITY MAP: K-18



FIRM MAP: 35001C03541H EFFECTIVE 8/16/2012

**LEGAL DESCRIPTION:**

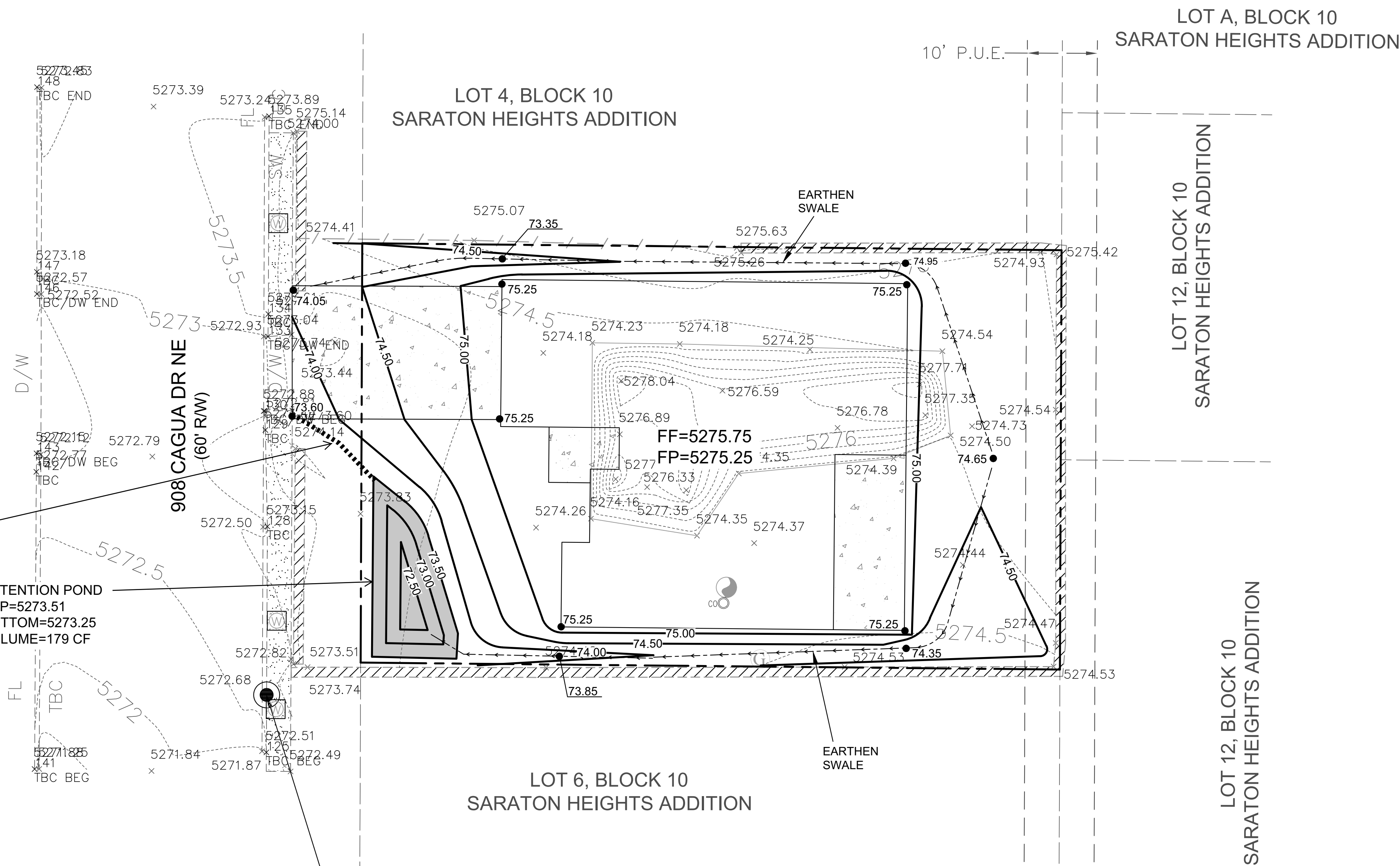
LOT 5, BLOCK 10 SARATON HEIGHTS ADDITION  
CITY OF ALBUQUERQUE BERNALILLO COUNTY, NEW MEXICO

**NOTES:**

- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
- SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
- LONG TERM MAINTAINANCE OF ALL PONDS, SWALES AND OVERFLOWS IS REQUIRED

**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 CONCRETE
-----<-----	PROPOSED PONDING

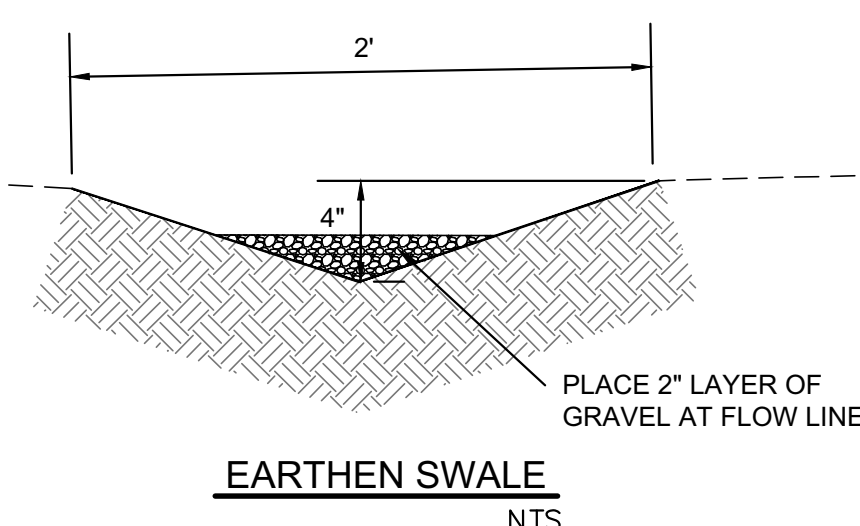


GRAVEL SWALE FROM POND TO DRIVEWAY, WATER SHALL NOT DRAIN OVER SIDEWALK

RETENTION POND  
TOP=5273.51  
BOTTOM=5273.25  
VOLUME=179 CF

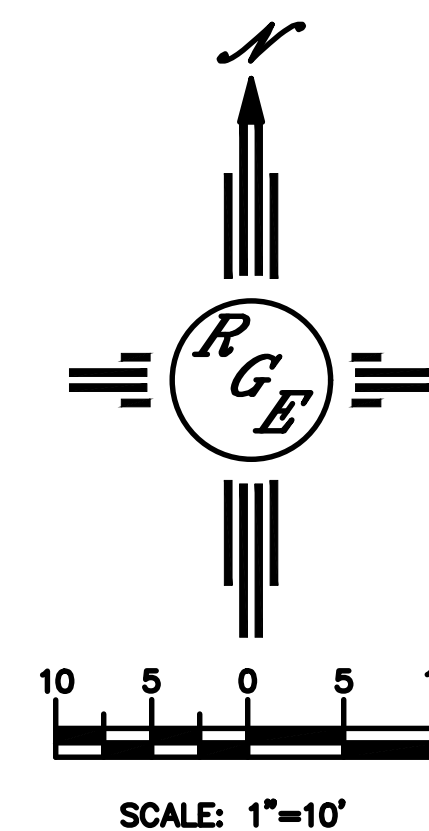
SET MAG NAIL  
TBM ELEV= 5272.68

CONSTRUCT ALL SWALES AND EROSION PROTECTION (SHOWN HATCHED) BELOW ADJACENT GRADE TO ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY.



**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.



ENGINEER'S SEAL	LOT 5 BLK 10 SARATON HEIGHTS ADD. 908 CAGUA DR NE	DRAWN BY DEM
DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 14522		DATE 3-13-26
3/23/26	GRADING AND DRAINAGE PLAN	SHEET # C1
DAVID SOULE P.E. #14522	Rio Grande Engineering P.O. BOX 53324 ALBUQUERQUE, NM 87199 (505) 321-8099	JOB #