

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

October 2, 2025

Jeremy Baker, P.E.
Square Root Services
7921 N World Dr.
Hobbs, New Mexico 88242-9032

RE: **Lot 1 Block 9 Unit 5 SAD 227
6200 Keyenta Pl. NW
Volcano Cliffs Subdivision
Grading and Drainage Plan
Engineers Stamp Date 9/19/2025 (E10D131, HYDR-2025-00340)**

Mr. Baker,

Based upon the information provided in your submittal received 9/24/2025, this plan is approved for Grading Permit.

PO Box 1293

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

Albuquerque

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

NM 87103

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 after this approval a new grading and drainage plan will need to be resubmitted showing the changes for the land treatments.

www.cabq.gov

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

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

Sincerely,

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

RR/TC
C: File B13D037

Weighted E Method Calculations

| Basin | Area (sf) | Area (acres) | Treatment | | | | | | | | 100-Year, 6-hr. | | 24 hour | |
|------------|-----------|--------------|-------------|---------|-------------|---------|-------------|---------|-------------|---------|-----------------|---------|---------|---------|
| | | | Treatment A | | Treatment B | | Treatment C | | Treatment D | | Weighted E | Volume | Flow | Volume |
| | | | % | (acres) | % | (acres) | % | (acres) | % | (acres) | (ac-ft) | (ac-ft) | cfs | (ac-ft) |
| ALLOWED | 24315.10 | 0.558 | 12% | 0.07 | 15% | 0.084 | 35% | 0.195 | 38% | 0.212 | 1.359 | 0.063 | 1.72 | 0.069 |
| PROPOSED | 24315.10 | 0.558 | 12% | 0.07 | 15% | 0.084 | 10% | 0.056 | 63% | 0.352 | 1.682 | 0.078 | 1.89 | 0.088 |
| COMPARISON | | | | | | | | | | | 0.015 | | | 0.019 |

Design Criteria: City of Albuquerque Development Process Manual - June 2020
 Chapter 6 Drainage, Flood Control, and Erosion Control
 Procedure for 40-Acre and Smaller Basins
 Precipitation Zone 1 per section 6-2(A)(1), Table 6.2.7 and Figure 6.2.3
 Excess Precipitation, E, per Table 6.2.13
 Peak Discharge for Small Watersheds: per Table 6.2.14

Equations:
 Weighted E = $Ea \cdot Aa + Eb \cdot Ab + Ec \cdot Ac + Ed \cdot Ad$ / (Total Area)

Volume = Weighted E * Total Area

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

Where for 100-year, 6-hour storm - zone 1

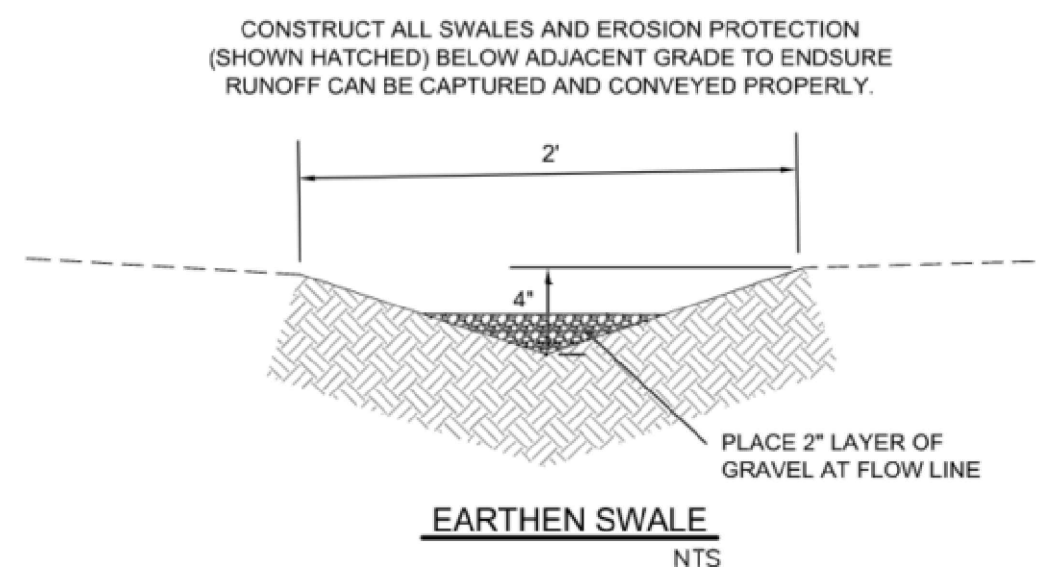
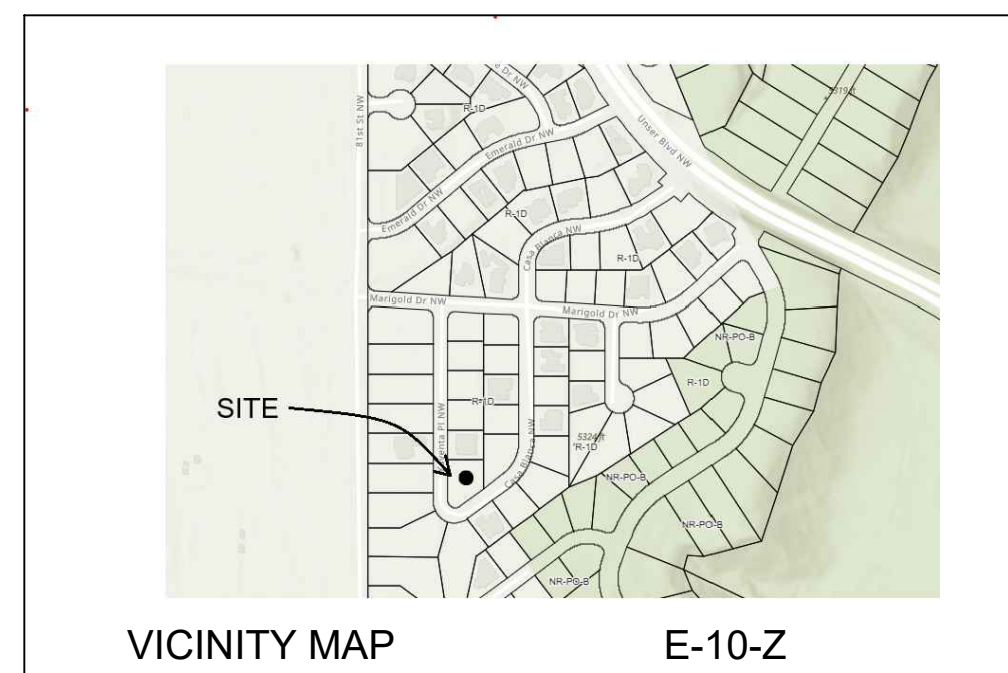
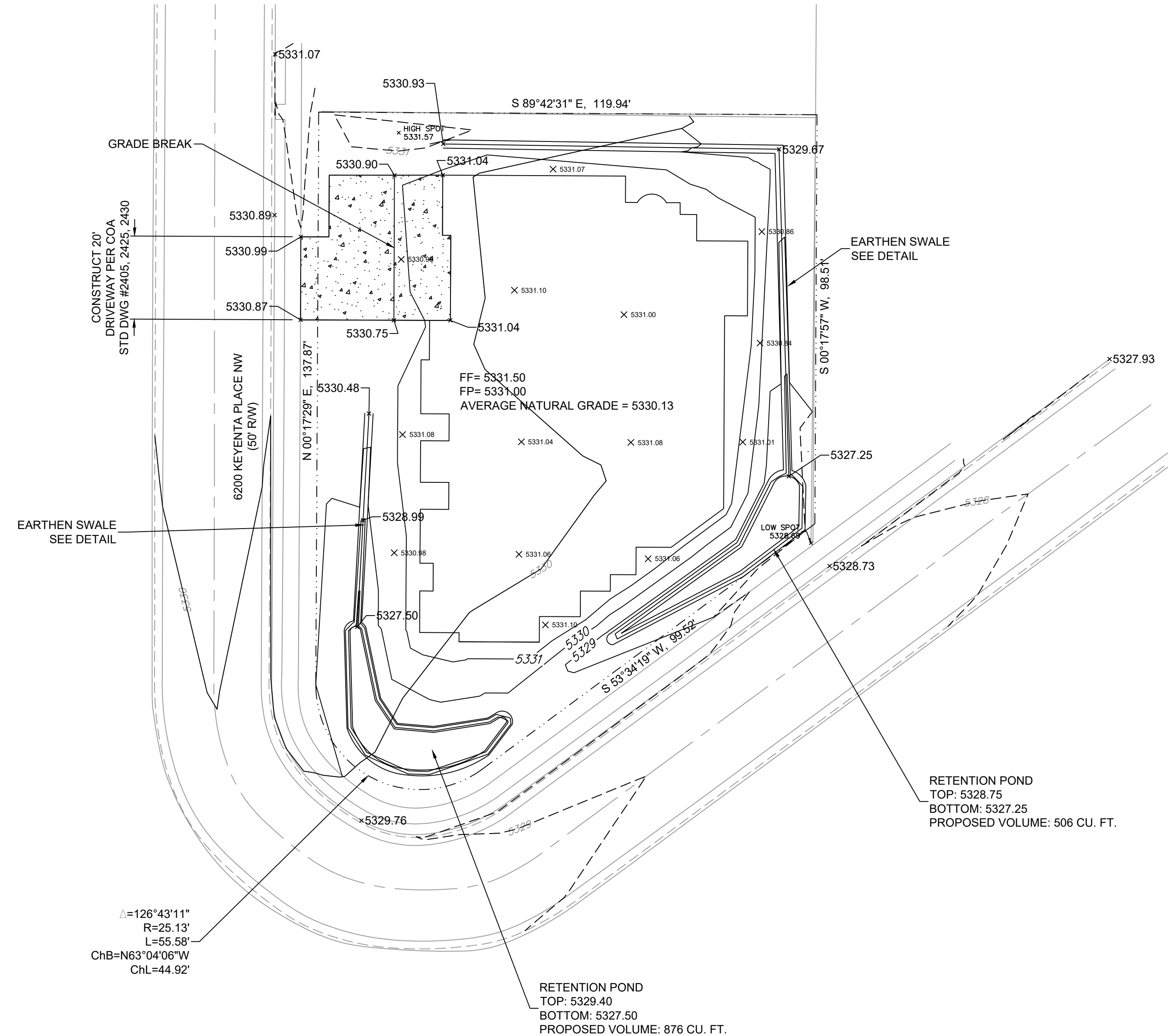
| | |
|----------|----------|
| Ea= 0.55 | Qa= 1.54 |
| Eb= 0.73 | Qb= 2.16 |
| Ec= 0.95 | Qc= 2.87 |
| Ed= 2.24 | Qd= 4.12 |

ONSITE Conditions
 FIRST FLUSH WATER QUALITY VOLUME

| | REQUIRED (CF) | PROPOSED (CF) |
|---------------|---------------|---------------|
| WATER QUALITY | 460 | 460 |
| FLOOD CONTROL | 816 | 922 |
| | 1276 | 1382 |

Narrative

This site is within the SAD 227 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway to the south per the master drainage plan. The site does exceed the SAD 227 developed conditions assumptions, therefore ponding of 1276 CF is required. Due to height restrictions we have incorporated ponding to minimize the pad height as much as possible. We are ponding the water harvest volume generated by the site. All building generated water drains to street. This plan is in conformance to the master drainage plan.



LEGAL DESCRIPTION:
 LOT 1 IN BLOCK 9, VOLCANO CLIFFS, UNIT 5, AS THE SAME IS SHOWN AND DESIGNED ON THE PLAT OF SAID SUBDIVISION FILED IN THE OFFICE OF BERNALILLO COUNTY CLERK ON NOVEMBER 1, 1967 IN BOOK D-3, PAGE 175.

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.

- 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 ACCEPTANCE OF ANY PROJECT.

LEGEND

- BOUNDARY LINE
- CENTER LINE
- EDGE OF ASPHALT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING SIDEWALK
- EXISTING WALL
- FLOW LINE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- TOP BACK OF CURB
- PROPOSED CONCRETE DRIVEWAY

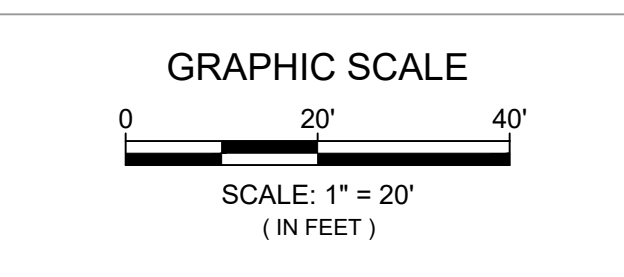
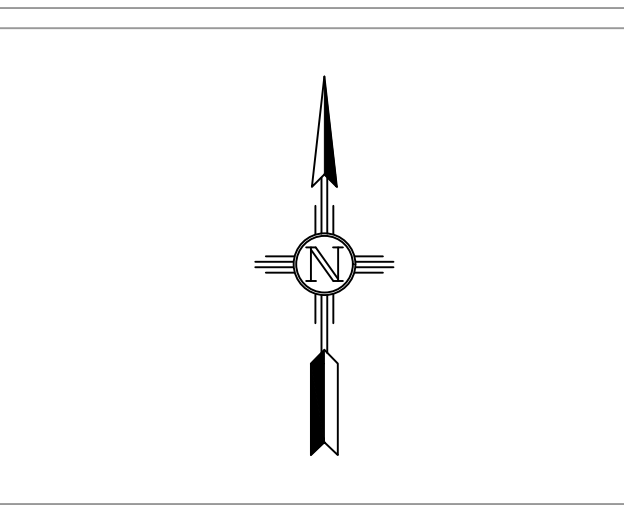


7921 N World Dr.
 Hobbs, NM 88242-9032
 Squarerootservices.net
 575-231-7347

ENGINEERING SHEET:
CIVIL GRADING PLAN
 OF
 PROJECT NAME:
6200 KEYENTA PL NW
 FOR
 CLIENT:
PALOMARES

PROJECT NUMBER:
25221

PROJECT ENGINEER:
 JEREMY BAKER, PE
 DRAWN BY:
 Magali Lopez



REVISIONS

| No. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
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