CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director

Mayor Timothy M. Keller

March 29, 2021

Ron Hensley, P.E.
THE Group
300 Branding Iron Rd. SE
Rio Rancho, NM 87124

RE: 5509 Valiente Rd. NW
Grading and Drainage Plan
Engineer's Stamp Date: 03/09/21
Hydrology File: C11D007

Dear Mr. Hensley:

Based upon the information provided in your submittal received 03/09/2021, the Grading and Drainage Plan is approved for Grading Permit (earthwork can get started for the earth pad on the house and retaining wall).

Once the grading is complete, a pad certification (meaning that the earthwork is complete) will be required prior to release from Hydrology during the Building Permit process. Also, at the time of pad certification approval, Hydrology will concurrently approve the Grading & Drainage Plan for Building Permit.

Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette

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

PO Box1293

Albuquerque

NM 87103

www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: 5509 Valiente Dr. NW Building Permit #: _____ Hydrology File #: _____

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: _____

City Address: 5509 Valiente Dr. NW

Applicant: THE Group Contact: Ron E. Hensley

Address: 300 Branding Iron Rd. SE, Rio Rancho, NM 87124

Phone#: 505-410-1622 Fax#: _____ E-mail: ron@thegroup.cc

Owner: Jesse Carlton Contact: 505-205-8541

Address: 3407 32nd Circle SE, Rio Rancho, NM 87124

Phone#: 505-205-8541 Fax#: _____ E-mail: Jessecarlton25@gmail.com

TYPE OF SUBMITTAL: ____ PLAT (___# OF LOTS) ✓ RESIDENCE ____ DRB SITE ____ ADMIN SITE

IS THIS A RESUBMITTAL?: _____ Yes ✓ No

DEPARTMENT: ____ TRAFFIC/ TRANSPORTATION ✓ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

____ ENGINEER/ARCHITECT CERTIFICATION
____ PAD CERTIFICATION
____ CONCEPTUAL G & D PLAN
✓ GRADING PLAN
____ DRAINAGE MASTER PLAN
____ DRAINAGE REPORT
____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
____ ELEVATION CERTIFICATE
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ TRAFFIC IMPACT STUDY (TIS)
____ OTHER (SPECIFY) _____
____ PRE-DESIGN MEETING?

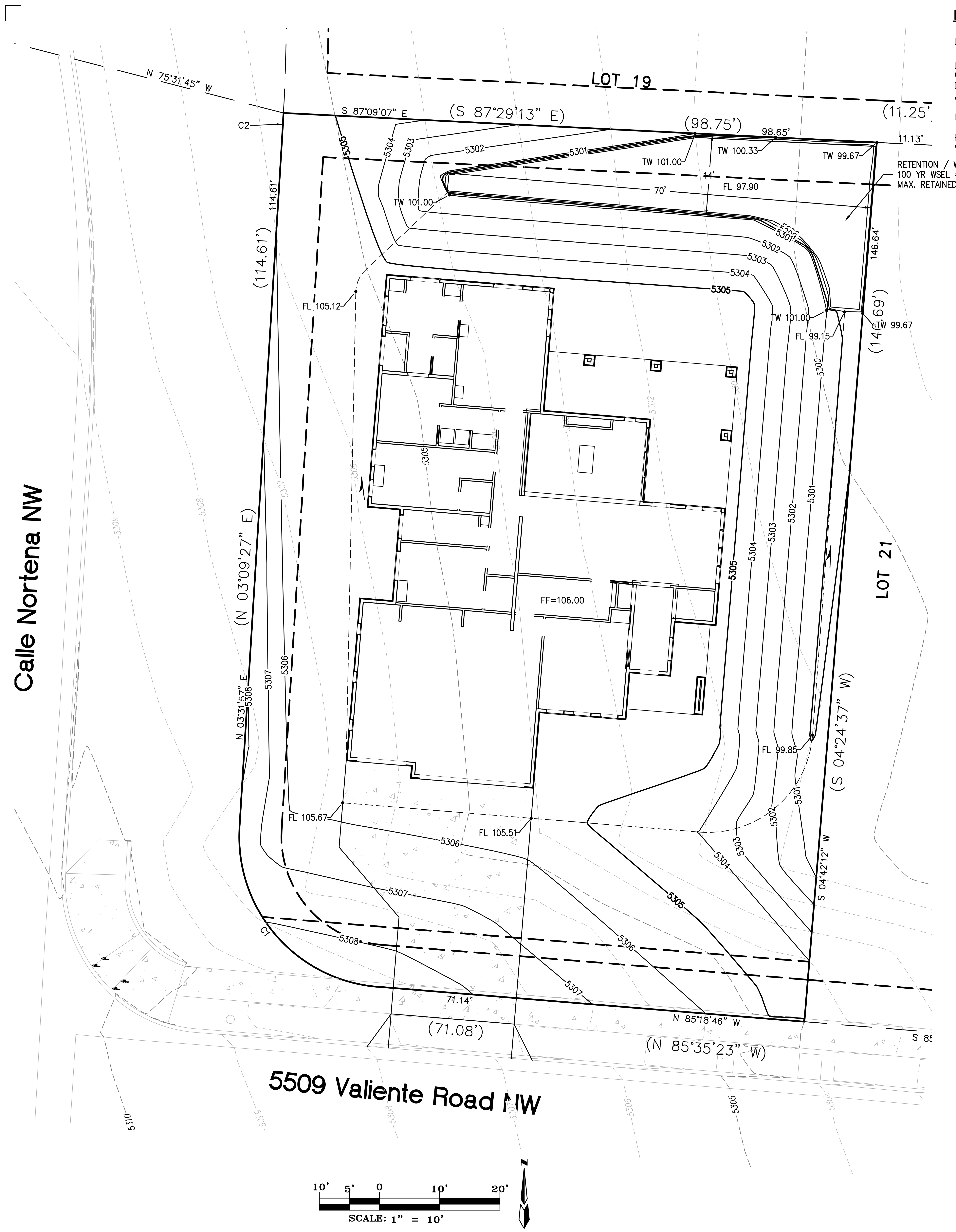
TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

✓ BUILDING PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY
____ PRELIMINARY PLAT APPROVAL
____ SITE PLAN FOR SUB'D APPROVAL
____ SITE PLAN FOR BLDG. PERMIT APPROVAL
____ FINAL PLAT APPROVAL
____ SIA/ RELEASE OF FINANCIAL GUARANTEE
____ FOUNDATION PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ SO-19 APPROVAL
____ PAVING PERMIT APPROVAL
____ GRADING/ PAD CERTIFICATION
____ WORK ORDER APPROVAL
____ CLOMR/LOMR
____ FLOODPLAIN DEVELOPMENT PERMIT
____ OTHER (SPECIFY) _____

DATE SUBMITTED: 3/9/21 By: Ron E. Hensley

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



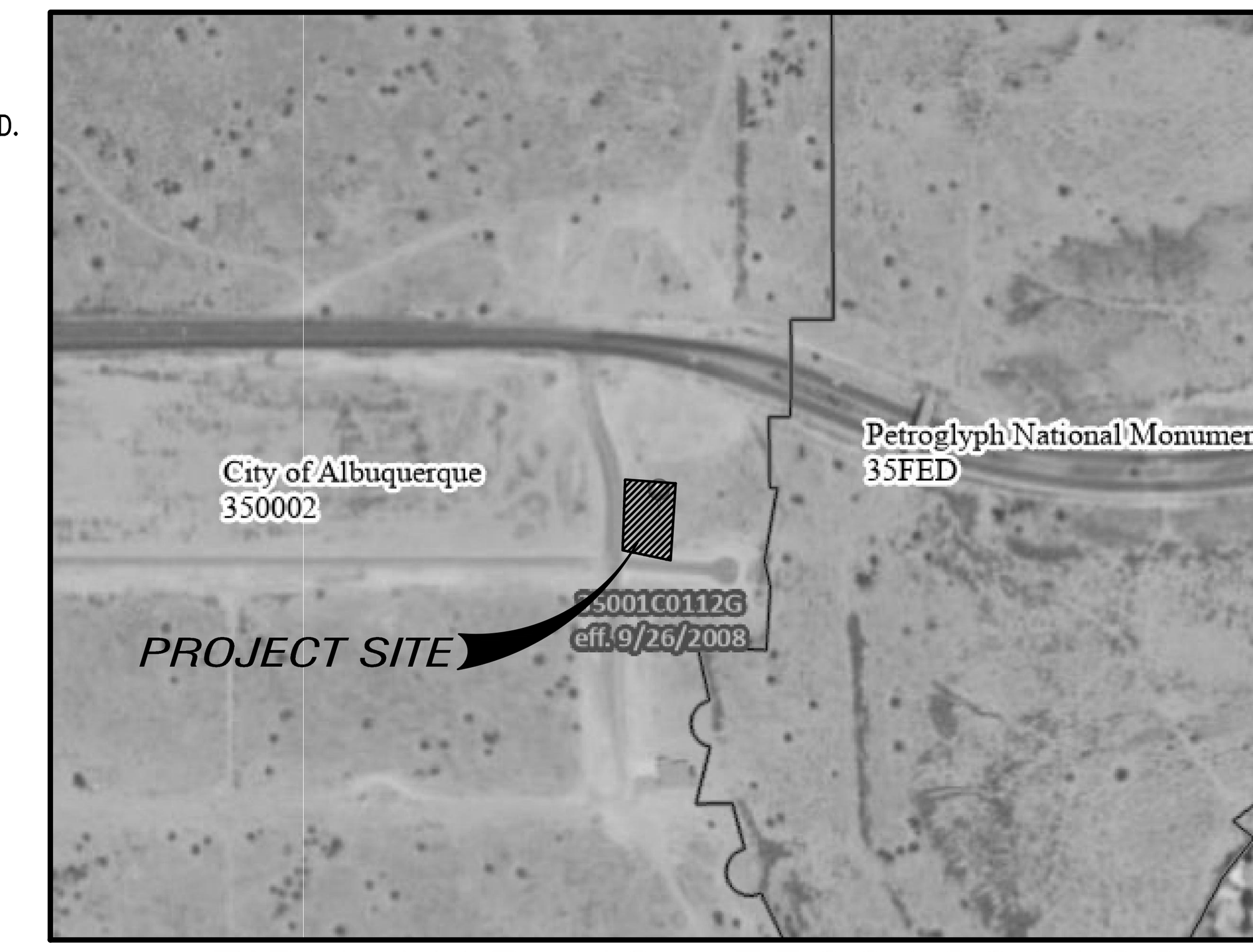
REQUIRED WATER QUALITY VOLUME

LOT DRAINAGE AS DEPICTED ON THIS PLAN SHALL BE MAINTAINED.

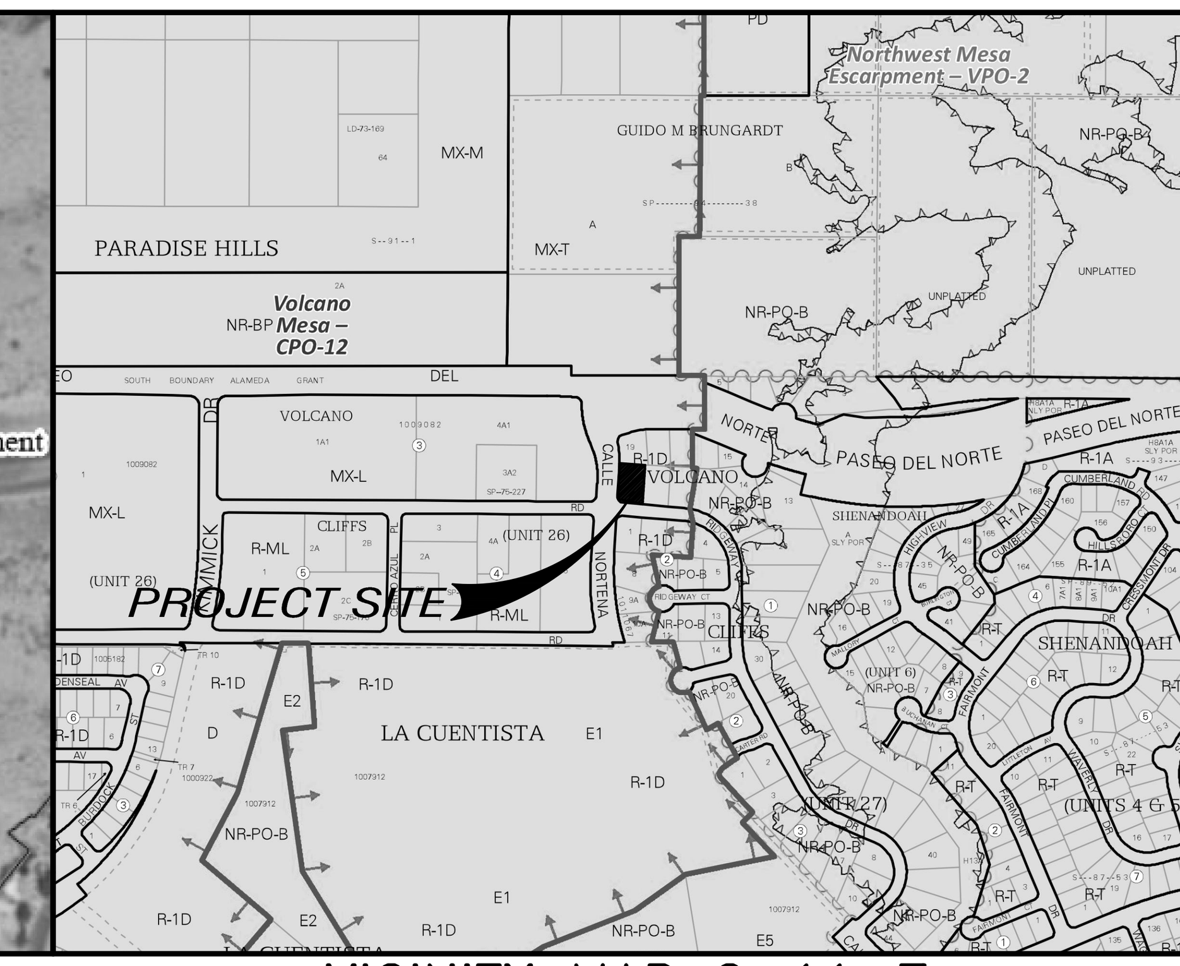
LOT DEPICTED HEREON SHALL BE RESPONSIBLE FOR MAINTAINING WATER QUALITY RETENTION ON THE LOT IMMEDIATELY PRIOR TO DISCHARGE. THE VOLUME SHALL BE EQUAL TO: IMPERVIOUS AREA * (0.44–0.10)/12 IN CUBIC FEET.

IMPERVIOUS AREA = 5,147 SQ.FT.

REQUIRED VOLUME = 5,147 * (0.44–0.10)/12 = 146 CU.FT.
VOLUME PROVIDED = 1,077 CU.FT.



FIRM MAP NO. 35001C0112G



VICINITY MAP C-11-Z

DRAINAGE INFORMATION

LOCATION & DESCRIPTION

THE PROPOSED SITE IS 0.32 ACRES LOCATED ON THE NORTH SIDE OF VALIENTA ROAD EAST OF CALLE NORTENA. AS SEEN ON THE VICINITY MAP.

FLOODPLAIN STATUS

THE CONSTRUCTION OF THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0112GH, DATED SEPTEMBER 26, 2008 IS NOT WITHIN A DESIGNATED 100–YEAR FLOODPLAIN. AN EXHIBIT WITH THE SITE SHOWN ON THE FIRM PANEL IS INCLUDED ON THIS SHEET. THE SITE IS NOT WITHIN A FLOOD ZONE.

METHODOLOGY

EQUATIONS:

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

FLOW = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

WHERE FOR 100–YEAR, 6–HOUR STORM(ZONE1)
Ea= 0.44 Qa= 1.29
Eb= 0.67 Qb= 2.03
Ec= 0.99 Qc= 2.87
Ed= 1.97 Qd= 4.37

BASIN	AREA (sf)	TREATMENT A %	TREATMENT A sf	TREATMENT B %	TREATMENT B sf	TREATMENT C %	TREATMENT C sf	TREATMENT D %	TREATMENT D sf	WEIGHTED E	VOLUME (cu.-ft.)	FLOW (cfs)
EXISTING	13960	100%	13960	0%	0	0%	0	0%	0	0.4400	512	0.41
PROPOSED	13960	50%	6980	13%	1833	0%	0	37%	5147	1.0343	1203	0.81

PRECIPITATION

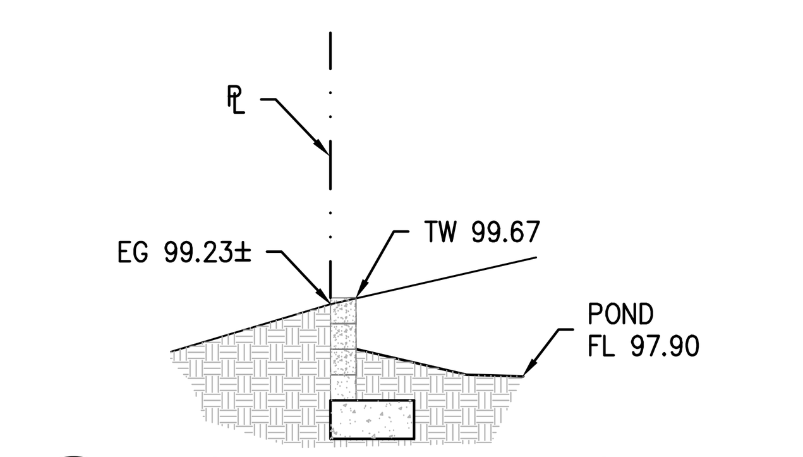
THE 100–YR 6–HR DURATION STORM WAS USED AS THE DESIGN STORM FOR THIS ANALYSIS. THIS SITE IS WITHIN ZONE 1 AS IDENTIFIED IN THE DEVELOPMENT PROCESS MANUAL, SECTION 6.

EXISTING DRAINAGE

THE SITE IS WITHIN THE NORTHWEST MESA AREA OF ALBUQUERQUE. THE SITE IS TO MAINTAIN HISTORIC DRAINAGE PATTERNS. THERE ARE NO FLOWS THAT ENTERS THE SITE DUE TO ADJACENT ROADWAYS. THE HISTORIC DRAINAGE IS TO THE NE CORNER.

DEVELOPED CONDITION

THIS SITE WILL BE DEVELOPED AS A SINGLE FAMILY HOME WITH DEVELOPED RUNOFF ROUTED TO RETENTION STRUCTURES. THE RETENTION POND WITH A REQUIRED VOLUME OF 1,046 CU.FT. OR 87% OF TOTAL RUNOFF TO RETAIN INCREASED RUNOFF AND MAINTAIN HISTORIC FLOW RATE.



5 POND WALL SECTION
Scale: 1"=5'

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 03/29/21
BY:
HydroTrans # C11D007

NOTES

THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GND ENGINEERING, LLC IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.

GENERAL NOTES:

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

2. THE EROSION PROTECTION SPECIFIED ON THIS PLAN IS THE MINIMUM RECOMMENDED. THE OWNER IS ENCOURAGED TO INCORPORATE EROSION RESISTANT LANDSCAPING ON AREAS WHERE EROSION MAY OCCUR SUCH AS SLOPES AND SWALES. THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL FEATURES NECESSARY TO PRESERVE THE DESIGN INTENT OF THE GRADING PLAN.

3. THE DRAINAGE INFRASTRUCTURE SHOWN ON THIS PLAN IS THE RESPONSIBLITY OF THE PROPERTY OWNER.

4. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEEDED OR LANDSCAPED

5. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260–1990) FOR LOCATION OF EXISTING UTILITIES.

6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.

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 FACILITES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

LEGAL DESCRIPTION

LOT 20 BLOCK 1, VOLCANO CLIFFS, UNIT 27
CITY OF ALBUQUERQUE BERNALILLO COUNTY, NEW MEXICO

LEGEND

FLOW ARROW
SLOPE ARROW
EL=11.28 PROPOSED ELEVATION
66.33 EXISTING ELEVATION
GRADE BREAK
100 PROPOSED CONTOUR
100 EXISTING CONTOUR
PROPOSED EASEMENT
4.00% PROPOSED GRADE
EXISTING WALL
PROPOSED WALL

THE group
THE HENSLEY ENGINEERING GROUP
300 BRANDING IRON RD. SE
RIO RANCHO, NEW MEXICO 87124
Phone:(505) 410-1622

RON E. HENSLEY
NEW MEXICO
21850
LICENSED PROFESSIONAL ENGINEER
3/09/21

1. THIS SET OF DRAWINGS EXISTS AS A WHOLE. IT IS THE SOLE RESPONSIBILITY OF EACH CONTRACTOR INVOLVED IN THE PROJECT TO REVIEW THESE DRAWINGS AS SUCH. EACH SHEET MAY CONTAIN WORK PERTINENT TO THEIR RESPECTIVE DISCIPLINES.

2. DUE TO POTENTIAL INCONSISTENCIES DURING PLAN REPRODUCTION, SCALING THE DRAWING TO VERIFY OR OBTAIN DIMENSIONS IS NOT RECOMMENDED.

-PROJECT ADDRESS- 5509 VALIENTE NW ALBUQUERQUE, NM

-CLIENT'S NAME-

-DRAWING NAME- GRADING AND DRAINAGE PLAN

-PROJECT NAME- VALIENTE NW RESIDENCE

-PROJECT NUMBER-

-PROJECT PROGRESS- PERMIT

-DRAWN BY- REH

-CHECKED BY- REH / -APPROVED BY- REH

-DATE- MAR, 9, 21

-SCALE- AS NOTED

-SHEET- G1