



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

Project Title: 5509 Valiente Dr. NW Hydrology File # C11D007

Legal Description: Lot 20, Block 1, Volcano Cliffs Unit 27

City Address, UPC, OR Parcel: 101106424915240520

Applicant/Agent: THE Group Contact: Ron E. Hensley

Address: 300 Branding Iron Rd. SE, Rio Rancho, NM 87124 Phone: 505-410-1622

Email: ron@thegroup.cc

Applicant/Owner: Jesse Carlton Contact:

Address: 3407 32nd Circle SE, Rio Rancho, NM 87124 Phone: 505-205-8541

Email: JesseCarlton25@gmail.com

(Please note that a DFT SITE is one that needs Site Plan Approval & ADMIN SITE is one that does not need it.)

TYPE OF DEVELOPMENT: ☐ PLAT (#of lots) ☒ RESIDENCE
☐ DFT SITE ☐ ADMIN SITE

RE-SUBMITTAL: ☐ YES ☐ NO

DEPARTMENT: ☐ TRANSPORTATION ☒ HYDROLOGY/DRAINAGE

Check all that apply under Both the Type of Submittal and the Type of Approval Sought:

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ARCHITECT CERTIFICATION
- ☒ PAD CERTIFICATION
- ☐ CONCEPTUAL G&D PLAN
- ☐ GRADING & DRAINAGE PLAN
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE MASTER PLAN
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL) ADMINISTRATIVE
- ☐ TRAFFIC CIRCULATION LAYOUT FOR DFT APPROVAL
- ☐ TRAFFIC IMPACT STUDY (TIS)
- ☐ STREET LIGHT LAYOUT
- ☐ OTHER (SPECIFY) _____

TYPE OF APPROVAL SOUGHT:

- ☐ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY
- ☐ CONCEPTUAL TCL DFT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ SITE PLAN FOR BLDG PERMIT DFT 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
- ☐ OTHER (SPECIFY) _____

DATE SUBMITTED: 11/07/23



The **H**ENSLEY **E**NGINEERING **G**ROUP

November 7, 2023

Hydrology Development
City of Albuquerque
PO Box 1293
Albuquerque, NM 87103

Re: C11D0007 - 5509 Valiente Pad Cert.

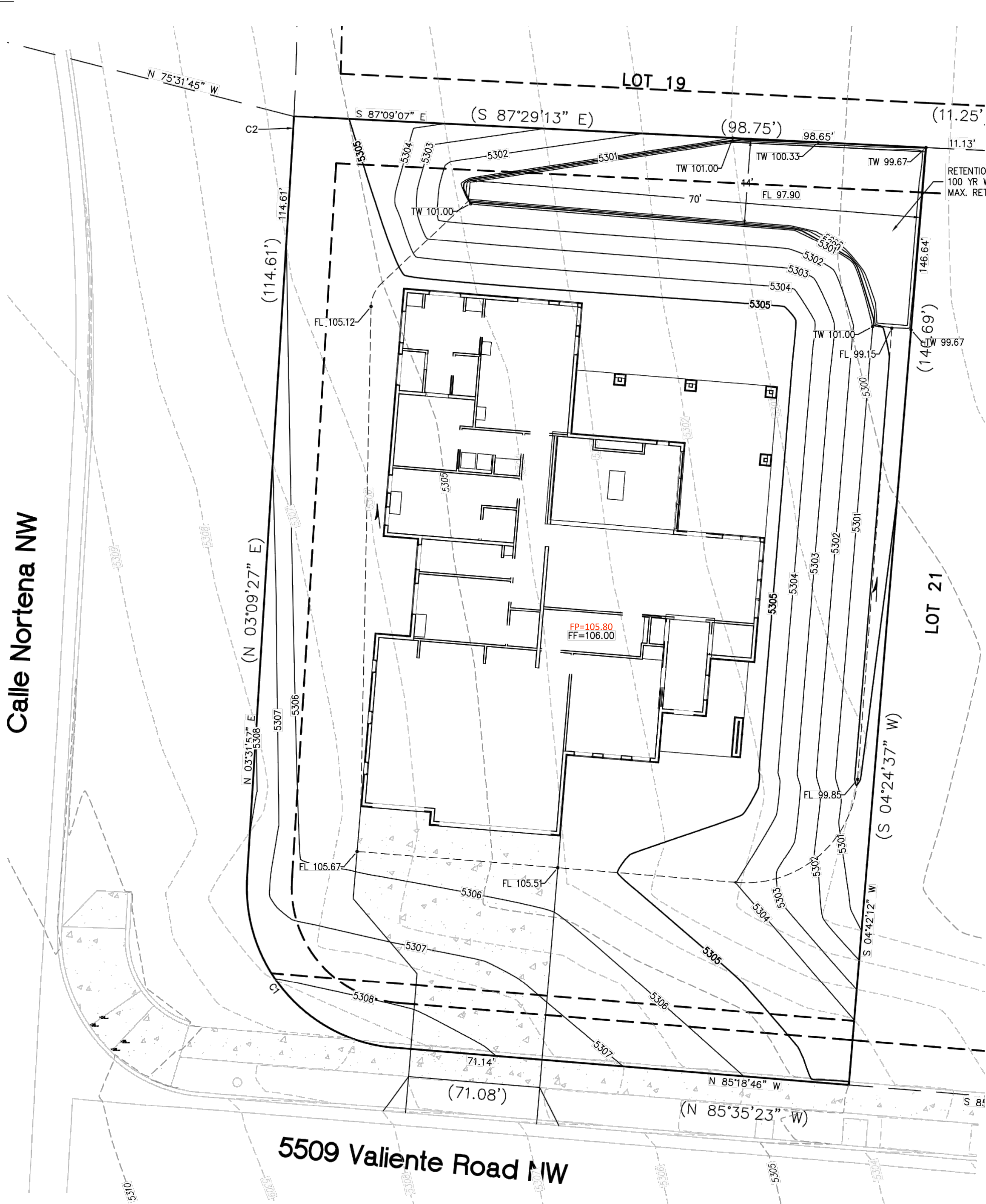


5509 Valiente



5509 Valiente

Calle Nortena NW



5509 Valiente Road NW

SCALE: 1" = 10'

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.

RETENTION / WATER QUALITY POND
100 YR WSEL = 5399.23
MAX. RETAINED VOLUME = 1,077 CU.FT.

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 35001C0112G, 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 = $E_a * A_a + E_b * A_b + E_c * A_c + E_d * A_d$ / (Total Area)

FLOW = $Q_a * A_a + Q_b * A_b + Q_c * A_c + Q_d * A_d$

WHERE FOR 100-YEAR, 6-HOUR STORM (ZONE1)

$E_a = 0.44$ $Q_a = 1.29$

$E_b = 0.67$ $Q_b = 2.03$

$E_c = 0.99$ $Q_c = 2.87$

$E_d = 1.97$ $Q_d = 4.37$

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

PRECIPITATION

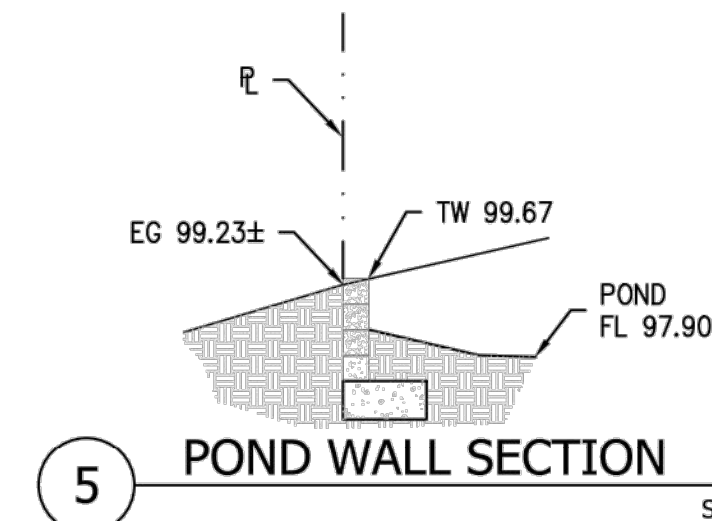
THE 100-YR 6-HR DURATION STORM WAS USED AS THE DESIGN STORM FOR THIS ANALYSIS. THIS SITE IS WITHIN ZONE 1 AS IDENTIFIED IN THE DEVELOPMENT PROCESS MANUAL, SECTION 6.

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.

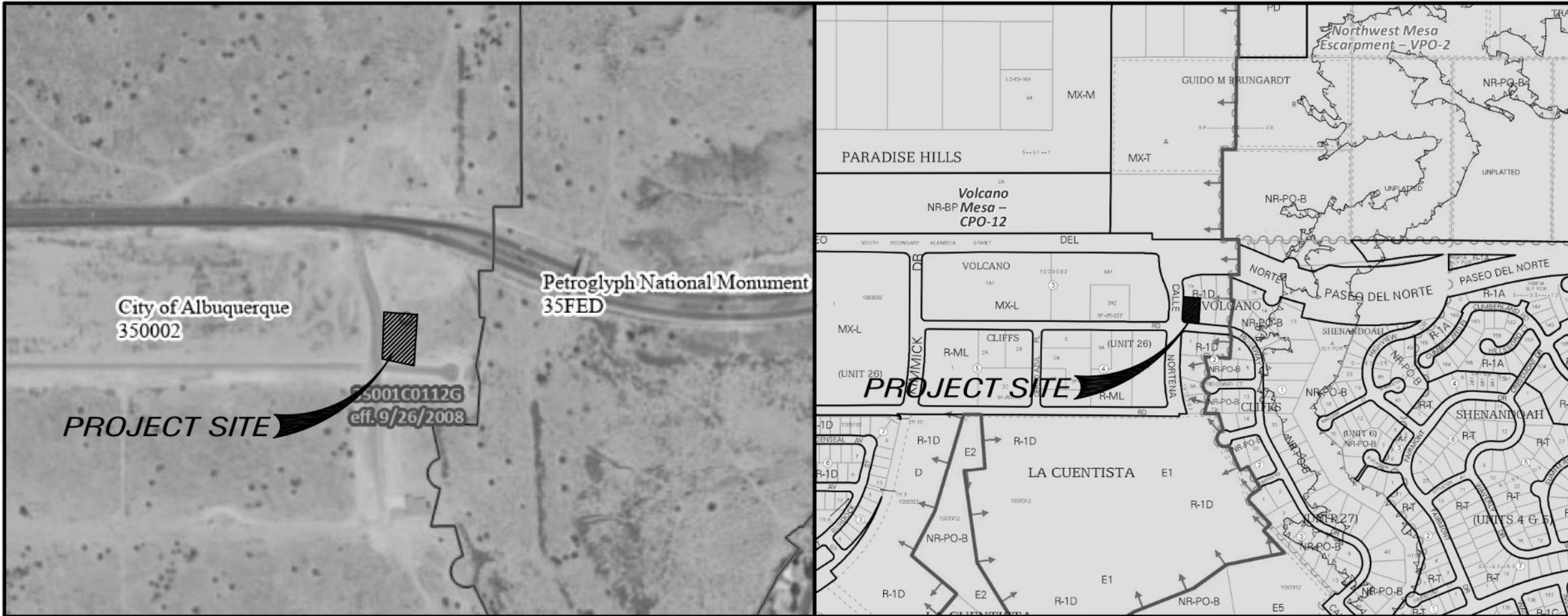
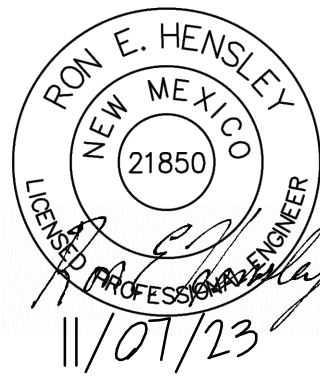


5 POND WALL SECTION

Scale: 1"=5'

DRAINAGE CERTIFICATION

I, RON E. HENSLEY, NMPE 21850, OF THE FIRM THE GROUP, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED READY FOR BUILDING PERMIT IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 3/09/2021. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY BRIAN MARTINEZ, NMPS 18374, OF THE FIRM CS-CARTESIAN SURVEYS, INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 11/06/2023, AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR GRADING PAD CERTIFICATION. THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.



FIRM MAP NO. 35001C0112G

VICINITY MAP C-11-Z

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 RESPONSIBILITY OF THE PROPERTY OWNER.
4. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEDED 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 FACILITIES 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
- PROPOSED ELEVATION
- EXISTING ELEVATION
- GRADE BREAK
- PROPOSED CONTOUR
- EXISTING CONTOUR
- PROPOSED EASEMENT
- PROPOSED GRADE
- EXISTING WALL
- PROPOSED WALL



THE HENSLEY ENGINEERING GROUP
300 BRANDING IRON RD. SE
RIO RANCHO, NEW MEXICO 87124
Phone: (505) 410-1022



1. THIS SET OF DRAWINGS CONTAINS A WHOLE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND TO OBTAIN ALL NECESSARY INFORMATION FROM THE CITY OF ALBUQUERQUE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE CITY OF ALBUQUERQUE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE CITY OF ALBUQUERQUE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE CITY OF ALBUQUERQUE.

2. DUE TO POTENTIAL INCONSISTENCIES DURING PLAN REVISIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE CITY OF ALBUQUERQUE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE CITY OF ALBUQUERQUE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE CITY OF ALBUQUERQUE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE CITY OF ALBUQUERQUE.

PROJECT ADDRESS: 5509 VALIENTE NW, ALBUQUERQUE, NM
CLIENT'S NAME: VALIENTE NW RESIDENCE

PROJECT NUMBER: 11/07/23
PROJECT PROGRESS: PERMIT
DRAWN BY: REH
CHECKED BY: REH / REH
DATE: MAR, 9, 21
SCALE: AS NOTED
SHEET: 1

GRADING AND DRAINAGE PLAN
VALIENTE NW RESIDENCE

THE HENSLEY ENGINEERING GROUP
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