

CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

October 16, 2018

Richard Dourte, P.E.
RHD Engineering LLC
4305 Purple Sage Ave. NW
Albuquerque, New Mexico 87120

RE: **Lot 20 Block 2 Unit 2 SAD 227**
5604 Kimberlite NW
Volcano Cliffs Subdivision
Grading and Drainage Plan
Engineers Stamp Date 10/11/18 (E10D052)

Dear Mr. Dourte,

Based upon the information provided in your submittal received 10/11/18, this plan cannot be approved for Grading Permit until the following comments are addressed.

- Raise the FF pad above the BSW spot elevation so drive pad may drain toward street.

Prior to building permit approval a pad certification will be required.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist of this plan will be required.

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

Sincerely,

James D. Hughes, P.E.
Principal Engineer, Hydrology
Planning Department

RR/JDH
C: File E10D052



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 5604 Kimberlite NW Building Permit #: _____ Hydrology File #: _____

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

Legal Description: Lot 20, Block 2, Volcano Cliffs No. 2

City Address: 5604 Kimberlite Dr. NW

Applicant: RHD Engineering, LLC Contact: Richard Dourte

Address: 4305 Purple Sage Ave. NW, Alb. NM, 87120

Phone#: 505.288.1621 Fax#: _____ E-mail: rhengineering@outlook.com

Other Contact: Simons Architecture PC Contact: Joe Simons

Address: _____

Phone#: _____ Fax#: _____ E-mail: joe@simonsarchitecture.com

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) ☒ RESIDENCE _____ DRB SITE _____ ADMIN SITE

IS THIS A RESUBMITTAL? _____ Yes ☒ No

DEPARTMENT _____ TRANSPORTATION ☒ HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ARCHITECT CERTIFICATION
- ☐ PAD CERTIFICATION
- ☐ CONCEPTUAL G & D PLAN
- ☒ GRADING PLAN
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE MASTER PLAN
- ☐ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- ☐ ELEVATION CERTIFICATE
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ TRAFFIC IMPACT STUDY (TIS)
- ☐ STREET LIGHT LAYOUT
- ☐ 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: Oct. 12, 2018 By: Richard Dourte

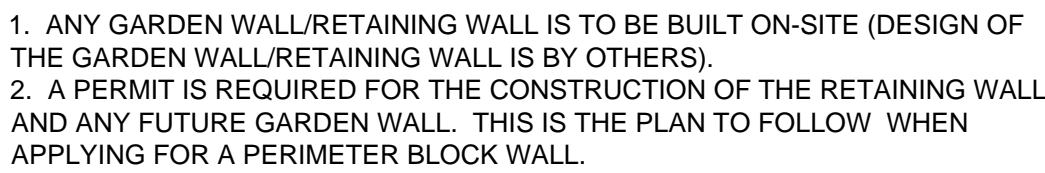
COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

1. THIS SITE IS LOCATED WITHIN THE SAD 227 DRAINAGE MASTER PLAN AREA.
2. THIS SITE, AS IT EXISTS, DRAIN IN A SOUTHEASTLY DIRECTION.
3. THE ALLOWABLE 100YR, 6HR FLOWS FROM THIS SITE IS 0.94CFS, THE FLOWS GENERATED BY THIS SITE IS 1.01CFS.
THE VOLUME OF THE FIRST FLUSH POND IS 153CF.
THE REQUIRED PONDING IS THIS IS 100YR 24HR VOLUME FOR THE SAD ALLOWABLE DESIGN VOLUME SUBTRACTED FROM THE PROPOSED 100YR 24HR STORM EVENT VOLUME.
THUS, $1681CF - 1439CF = 242CF$
SINCE THIS IS GREATER THAN THE FIRST FLUSH PONDING REQUIREMENTS, 242CF IS REQUIRED TO BE PONDING. PONDING PROVIDED IS 259CF.
4. WEIR EQUATION FOR EACH CELL OF A 8" CMU BLOCK:
 $Q = CL(H)^{1.5}$
 $C = 3.21$
 $L = 5"$
 $H = 5"$
 $THUS Q = 0.36CFS, OR .72CFS PER BLOCK.$
5. THE 100YR, 6HR EVENT IS 1.01CFS, THUS 2 BLOCKS WILL NEED TO BE TURNED.

$$\text{First Flush Ponding Requirement} = A_o * 0.34 \text{ in/12in/ft} = 153 \text{ CF}$$

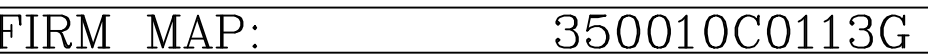
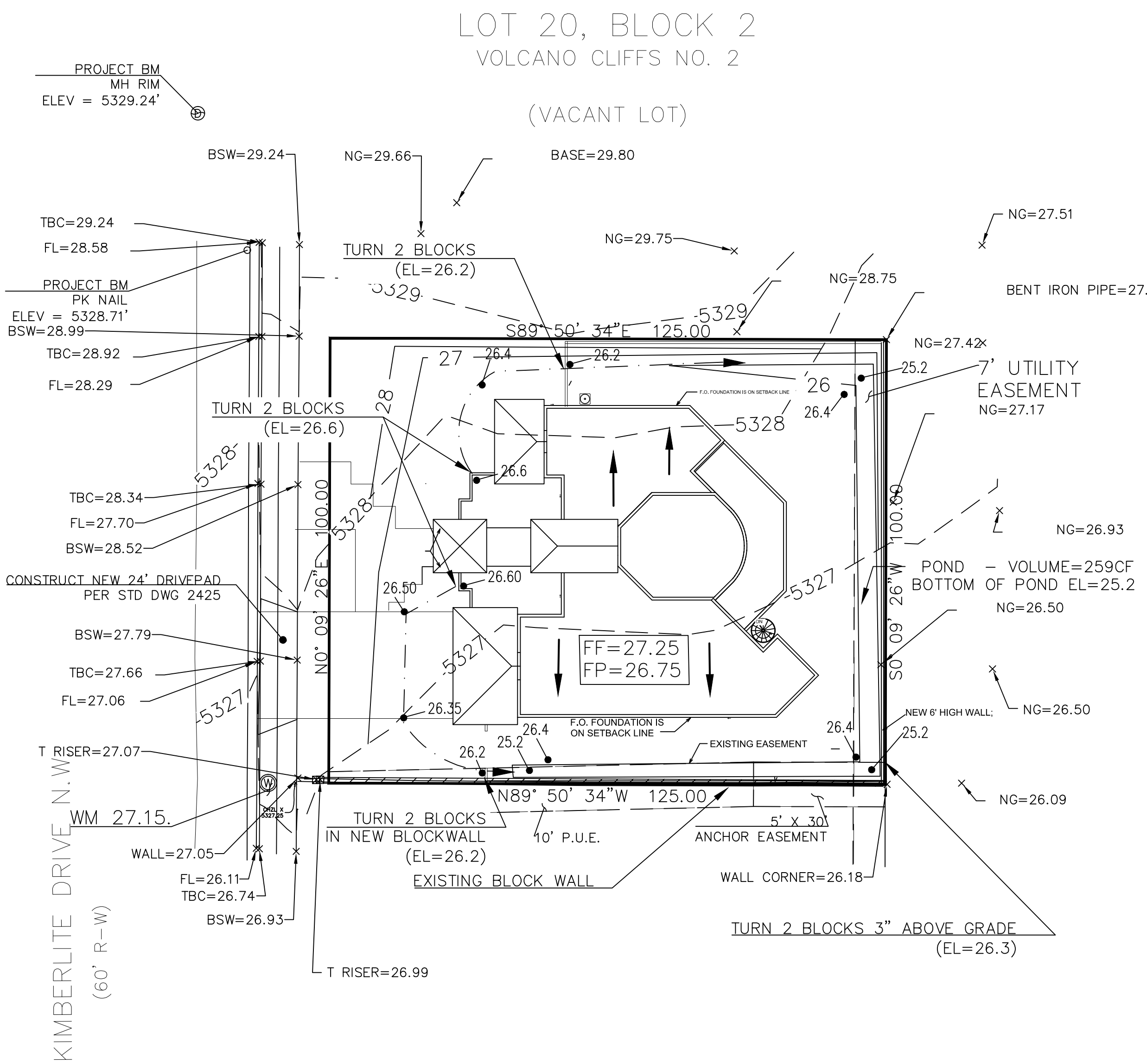


1. THIS SITE IS NOT LOCATED IN A FEMA FLOOD HAZARD ZONE (REFER TO THE FIRM MAP 35001C01113G, EFFECTIVE DATE 9-26-08, EXCERPT ATTACHED).
2. RHD ENGINEERING, LLC RECOMMENDS THAT THE OWNER OBTAIN A GEOTECHNICAL REPORT PRIOR TO DESIGN OF BUILDING FOOTINGS/FOUNDATION.
3. SLOPE STABILIZATION SHALL BE USED ON SLOPES GREATER THAN A 3:1 SLOPE, PER MANUFACTURER RECOMMENDATIONS.
4. MODIFICATIONS OR ADJUSTMENTS TO EXISTING DRAINAGE STRUCTURES/EROSION MITIGATION IMPROVEMENTS SHALL BE DONE IN THE SAME MANNER AS THE ORIGINAL IMPROVEMENT.
5. ALL SWPPP REQUIREMENTS SHALL BE ADHERED TO.
6. ALL WORK ON THIS PLAN SHALL BE DONE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARDS. ALL APPLICABLE PERMITS SHALL BE OBTAINED PRIOR TO WORK COMMENCING.
7. ALL WORK IN THE RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARDS.
8. THE SURVEY INFORMATION WAS PROVIDED BY MR. DAVID ACOSTA, NMPS 21082, CONSTRUCTION TECHNOLOGIES, INC.

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.

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.

BENCH MARK INFORMATION:
SAS MANHOLE RIM IN KIMBERLITE DRIVE, ELEVATION= 5329.24.




LOT 20, BLOCK 2, VOLCANO CLIFFS NO. 2
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. RETAIN THE FIRST .34" OF STORM RUNOFF FROM ENTIRE DEVELOPMENT TO CONFORM TO THE WATER QUALITY REQUIREMENTS

46.00
 TW=44.00
 5601
 5600
 5601
 5600
 LOT LINE
 RIGHT-OF-WAY
 PROPOSED RETAINING WALL
 PROPOSED ROCK FACE WALL
 EXISTING CURB AND GUTTER
 PROPOSED EDGE OF CONCRETE
 PROPOSED FLOWLINE/SWALE
 EXISTING WALL
 PROPOSED BASIN BOUNDARY
 ROOF DRAINAGE

Richard Dourte P.E. #10854

ENGINEER'S SEAL	Title 5604 KIMBERLITE NW	DRAWN BY
		DATE
10-18-18	GRADING AND DRAINAGE PLAN	Day
Richard Dourte P.E. #10854	<i>R.H.D. Engineering, LLC</i> 4305 Purple Sage Ave. NW ALBUQUERQUE, NM 87120 (505) 288-1621	SHEET # X of X
		JOB #