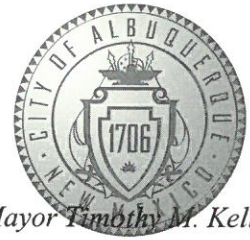


# CITY OF ALBUQUERQUE

Planning Department  
David Campbell, Director



Mayor Timothy M. Keller

October 11, 2018

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

**RE: Lot 7A1 & 6A1 Block 9 Unit 18 SAD 228  
6536 Papagayo Rd. NW  
Volcano Cliffs Subdivision  
Grading and Drainage Plan  
Engineers Stamp Date; 7/25/18 (D10D003I7)  
Pad Certification Date; 10/4/18**

Dear Mr. Dourte,

Based upon the information provided in your submittal received 10/10/18, this plan is approved for Building Permit.

PO Box 1293

Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained, with the approved G&D plan.

Albuquerque

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

NM 87103

If you have any questions, please contact me at 924-3986 or Rudy Rael at 924-3977.

www.cabq.gov

Sincerely,

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

RR/JDH  
C: File D10D0017



# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

**Project Title:** 6536 Papagayo NW **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** D10D00317  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** Lot 7-A-1 & 6-A-1, Block 9, Unit 18, Volcano Cliffs Sub'd (SAD 228)  
**City Address:** 6536 Papagayo NW

**Applicant:** RHD Engineering, LLC **Contact:** Richard Dourte  
**Address:** 4305 Purple Sage Ave. NW  
**Phone#:** 505.288.1621 **Fax#:** \_\_\_\_\_ **E-mail:** rhdenengineering@outlook.com

**Other Contact:** Candelaria Homes **Contact:** Diego Candelaria  
**Address:** \_\_\_\_\_  
**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** diego.candelariahomes@gmail.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:** October 10, 2018

**By:**

Richard Dourte

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_

October 10, 2018

Ms. Renee Brissette, PE  
Senior Engineer, Planning Department  
Development Review Services  
600 Second Street  
City of Albuquerque, NM 87102

RE: 6536 Papagayo NW, (D12D00317)

Dear Ms. Brissette,

Thank you for your comments dated October 5, 2018 (copy enclosed) regarding the project referenced above. Your issues have been addressed as follows:

1. The dirt ramp in the street and the dirt on the sidewalk has been removed. Please see attached picture.

If you have any questions, please feel free to call me at 288-1621.

Sincerely,



Richard Dourte, PE  
RHD Engineering, LLC

# CITY OF ALBUQUERQUE

Planning Department  
David Campbell, Director



Mayor Timothy M. Keller

October 5, 2018

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

RE: **Lot 3 Block 3 Unit 22 SAD 228**  
**6536 Papagayo NW**  
**Volcano Cliffs Subdivision**  
**Grading and Drainage Plan**  
**Engineers Stamp Date; 7/25/18 (D10D003I17)**  
**Pad Certification Date; 10/4/18**

Dear Mr. Dourte,

Based upon the information provided in your submittal received 10/4/18, this plan cannot be approved for Building Permit until the following comment is addressed.

- Remove the dirt from the street and the public sidewalk. Explain to the contractor that dirt curb ramps are not allowed in the street. Use lumber, gravel or a pavement base for this ramping.

If you have any questions, please contact me at 924-3995 or Rudy Rael at 924-3977.

Sincerely,

Renee Brissette, P.E.  
Senior Engineer, Hydrology  
Planning Department

RR/RB  
C: File D10D003I17





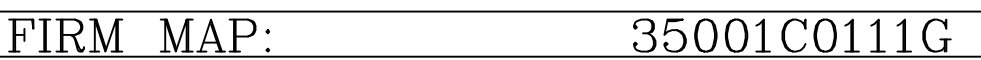
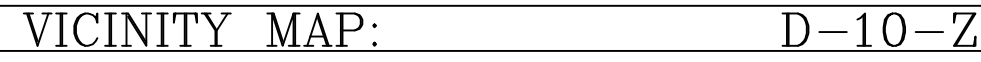
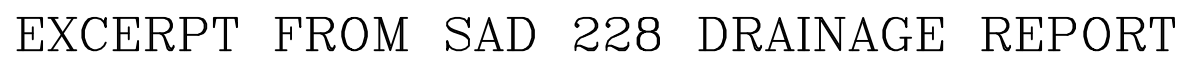


1. THIS SITE IS LOCATED WITHIN THE SAD 228 DRAINAGE MASTER PLAN AREA.
2. THIS SITE IS TO DRAIN IN A WESTERLY DIRECTION, PER THE SAD 228 DRAINAGE MASTER PLAN.
3. THE ALLOWABLE 100YR, 6HR FLOWS FROM THIS SITE IS 3.84CFS, THE FLOWS GENERATED BY THIS SITE IS 3.45CFS.  
THE VOLUME OF THE FIRST FLOOD POND IS 690CF. THIS IS GREATER THAN THE REQUIRED PONDING OF 479CF
4. WEIR EQUATION FOR EACH CELL OF A 8" CMU BLOCK:  
 $Q=C_L(H)^{1.5}$   
 $C=3.21$   
 $L=5'$   
 $H=5'$   
THUS  $Q=0.36CFS$ , OR .72CFS PER BLOCK.
5. THE OFFSITE FLOWS THAT THIS SITE IS REQUIRED TO ACCEPT IS FROM LOT 9, 0.36 AC AND THE PERMISSIBLE DEVELOPED FLOWS ARE 1.27 CFS, PER THE SAD 228 DRAINAGE PLAN. THE NUMBER OF CELLS NEEDED TO ALLOW THESE FLOWS TO PASS ARE 1.27/.72=1.76 BLOCKS THUS 2 BLOCKS (1.44CFS) NEED TO BE TURNED.

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.

1. THIS SITE IS NOT LOCATED IN A FEMA FLOOD HAZARD ZONE (REFER TO THE FIRM MAP 35001C0111G, EXCERPT ATTACHED).
2. RHD ENGINEERING, LLC RECOMMENDS THAT THE OWNER OBTAIN A GEOTECHNICAL REPORT PRIOR TO DESIGN OF BUILDING FOOTING/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. THIS GRADING PLAN IS TO BE UTILIZED AND A COPY PROVIDED TO THE CITY WHEN APPLYING FOR THE CONSTRUCTION OF ANY GARDEN OR RETAINING WALLS, WITH RESPECT TO THIS SITE.
9. THE SURVEY INFORMATION WAS PROVIDED BY CONSTRUCTION SURVEYS TECHNOLOGIES, INC.
10. FOR SITE DIMENSIONS, BUILDING AND INFRASTRUCTURE LOCATION REFERENCE TO THE SITE PLAN.

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.



UPSTREAM FLOWS= (10%B+40%C+50%D)x area= 1.27CFS

|             |        |       |
|-------------|--------|-------|
| Area        | SQ. FT | Acres |
| (0%)A=      | 0      | 0.000 |
| (10%)B=     | 4728   | 0.109 |
| (40%)C=     | 18912  | 0.434 |
| (50%)D=     | 23640  | 0.543 |
| Total       | 47280  | 1.085 |
| Weighted E= | 1.448  |       |

| Design Flows (CFS) |        |       |                         |
|--------------------|--------|-------|-------------------------|
| Area               | SQ. FT | Acres | Peak Discharge (100 YR) |
| A=                 | 0      | 0.000 | 0.00                    |
| B=                 | 4728   | 0.109 | 0.22                    |
| C=                 | 18912  | 0.434 | 1.25                    |
| D=                 | 23640  | 0.543 | 2.37                    |
| Total (CFS)        |        |       | 3.84                    |

|            | V360   | V1440  | V4days | V10days |
|------------|--------|--------|--------|---------|
| Cubic feet | 5705.1 | 6611.3 | 7517.5 | 8601.0  |
| Acre-ft    | 0.13   | 0.15   | 0.17   | 0.20    |

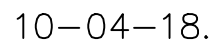
|             |        |       |                    |        |       |
|-------------|--------|-------|--------------------|--------|-------|
| Area        | SQ. FT | Acres | Design Flows (CFS) |        |       |
| A=          | 0      | 0.000 | Area               | SQ. FT | Acres |
| B=          | 5000   | 0.115 | A=                 | 0      | 0.000 |
| C=          | 29780  | 0.684 | B=                 | 5000   | 0.115 |
| D=          | 12500  | 0.287 | C=                 | 29780  | 0.684 |
| Total       | 47280  | 1.085 | D=                 | 12500  | 0.287 |
| Weighted E= | 1.215  |       | Total (CFS)        |        | 3.45  |

|            | V360   | V1440  | V4days | V10days |
|------------|--------|--------|--------|---------|
| Cubic feet | 4788.1 | 5267.3 | 5746.4 | 6319.4  |
| Acre-ft    | 0.11   | 0.12   | 0.13   | 0.15    |

The 100 year peak flows for this developed site is 3.45 CFS and the SAD 228 permissible design flows are 3.84 CFS for an increase of -0.39 CFS.

$$\text{First Flush Ponding Requirement} = A_D * 0.46 \text{ in/12in/ft} = 479 \text{ CF}$$

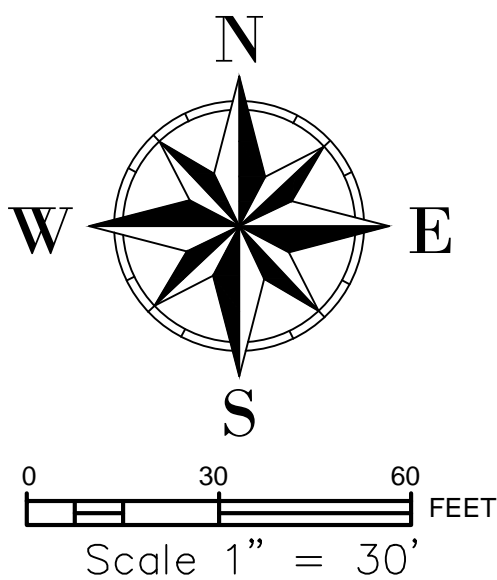

1. ANY GARDEN WALL/RETAINING WALL IS TO BE BUILT ON-SITE (DESIGN OF THE GARDEN WALL/RETAINING WALL IS BY OTHERS).
2. A PERMIT IS REQUIRED FOR THE CONSTRUCTION OF THE RETAINING WALL AND ANY FUTURE GARDEN WALL. THIS IS THE PLAN TO FOLLOW WHEN APPLYING FOR A PERIMETER BLOCK WALL.




1. Richard Dourte certify this pad has been constructed in substantial conformance with the approved plan dated 7-25-18. The pad has been to an elevation of 5332.0± (survey information obtained from David Acosta, Construction Survey Technologies, NMPS 21082). The pad was constructed approximately 0.3ft lower than the design elevation. Minor adjustments to the grades in the proximity to the building may be needed. The drainage concept has not changed.

I, RICHARD DOURTE HAVE PERSONALLY INSPECTED THE PROPERTY ON 6-28-88. THE SITE IS CONSISTENT WITH THE TOPO SHOWN.

Richard Dourte  
RICHARD DOURTE P.E. #10854  
DATE



|   |  |                                    |
|---|--|------------------------------------|
| ENGINEER'S<br>SEAL  | Title<br>6536 PAPAGAYO NW  | DRAWN<br>BY                        |
|  |  | DATE                               |
|   | GRADING AND<br>DRAINAGE PLAN   | Day                                |
| 7/25/18<br><br>Richard Dourte<br>P.E. #10854  | <i>RHD Engineering, LLC</i><br>4305 Purple Sage Ave. NW<br>ALBUQUERQUE, NM 87120<br>(505) 288-1621 | SHEET #<br><br>1 of 1<br><br>JOB # |