CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



June 25, 2018

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

RE: Lot 7 Block 4 Unit 19 SAD 228

6532 Azor Lane NW Volcano Cliffs Subdivision Grading and Drainage Plan

Engineers Stamp Date 5/7/18 (D10D003T7)

Dear Mr. Dourte,

Based upon the information provided in your submittal received 5/21/18, this plan is approved for Pad Certification.

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 D10D003T7



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2016)

	Work Order#: Contact:
	Contact:
	Contact:
	E-mail:
	Contact:
	E-mail:diego.candelariahomes@gmail.co
	TYPE OF APPROVAL/ACCEPTANCE SOUGHT: X BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY
	
CL)	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 OTHER (SPECIFY)
By:	
	Fax#:

FEE PAID:___

DRAINAGE CALCULATION

Project: 6532 Azor NW Drainage Calculations - Zone 1 Total Lot Area (ac) = 0.3214

Depth (inches) at 100yr Storm						
Zone	P60	P360	P1440	P ₄ days	P10days	
1	1.87	2.20	2.66	3.12	3.67	

Excess Precipiation, E(inches) - 6 HR							
		Treatment					
Zone	Α	В	С	D			
1	0.44	0.67	0.99	1.97			

Weighted E= ((Ea*Aa)+(Eb*Ab)+(Ec*Ac)+(ED*AD))/(Aa+Ab+Ac+AD)
V360=(Weighted E *P360)/12 in/ft
V1440= V360+AD*(P1440-P360)/12in/ft
V4days=V360+AD*(P4day-P360)/12in/ft
V10days=V360+AD*(P10days-P360)/12in/ft

Peak Discharge (CFS/ACRE) 100 YR								
	Treatment							
Zone	Α	В	C	D				
1	1.29	2.03	2.87	4.37				

0.05

Area	SQ.	FT	Acres					Design	Flows (CFS)
(0%)A=	()	0.000			Area	SQ. FT	Acres	Peak Discharge
(10%)B=	14	00	0.032			A=	0	0.000	0.00
(40%)C=	56	00	0.129			B=	1400	0.032	0.07
(50%)D=	70	00	0.161			C=	5600.1	0.129	0.37
Total	140	000	0.321			D=	7000.1	0.161	0.70
Weigh	nted E= 1.448				Т	otal (CFS)	1.14	
				1	•	-		•	
	Va	60	\/1	440		\/4daa			V10deve

2226.0

0.05

Acre-tt	0.0	4	0.04			0.05		0.06		
	*****	*****	**********	ROPOSED (CONDITION	IS****	*****	*****	****	
Area	SQ.	FT	Acres					Design	Flows (CFS)	
A=	0		0.000			Area	SQ. FT	Acres	Peak Discharge	(100 YR)
B=	140	00	0.032			A=	0	0.000	0.00	
C=	725	0	0.166			B=	1400	0.032	0.07	
D=	535	0	0.123			C=	7250	0.166	0.48	
Total	1400	00	0.321			D=	5350	0.123	0.54	
Weighted E= 1.3		.333			1	otal (CFS	5)	1.08		
					•	·				
	V 36	50	V14	140		V4days			V10days	
Cubic feet	1554	1554.6		9.7		1964.8			2210.0	

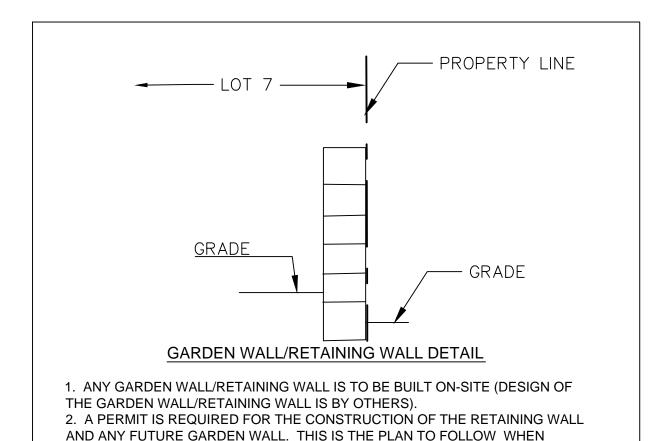
The 100 year peak flows for this developed site is 1.08 CFS and the SAD 228 permissible design flows are 1.14 CFS for an increase of -0.06 CFS.

First Flush Ponding Requirement = Ap *0.46 in/12in/ft = 205 CF

0.04

DRAINAGE NARRATIVE:

- 1. THIS SITE IS LOCATED WITHIN THE SAD 228 DRAINAGE MASTER PLAN AREA. 2. THIS SITE IS TO DRAIN IN A SOUTH WEST DIRECTION, PER THE SAD 228 DRAINAGE MASTER
- 3. THE VOLUMES OF THE FIRST FLUSH POND IS 212CF, THIS IS GREATER THAN THE REQUIRED PONDING OF 205CF.



APPLYING FOR A PERIMETER BLOCK WALL.

GENERAL NOTES:

1. THIS SITE IS NOT LOCATED IN A FEMA FLOOD HAZARD ZONE (REFER TO THE FIRM MAP 35001C0112G,(EXCERPT ATTACHED).

2. RHD ENGINEERING, LLC RECOMMENDS THAT THE OWNER OBTAIN A GEOTECHNICAL REPORT PRIOR TO DESIGN OF BUILDING FOOTING/FOUNDATION.

3. SLOPE STABILAZATION SHALL BE USED ON SLOPES GREATER THAN A 3:1 SLOPE, PER MANUFACTURER RECOMMENDATIONS.

4. MODIFICATIONS OR ADJUSTMENTS TO EXISTING DRAINAGE STRUCTURES/EROSION MITIGIATION IMPROVEMENTS SHALL BE DONE IN THE SAME MANNER AS THE ORIGINAL IMPROVEMENT.

5. ALL SWPPP REQUIREMENTS SHALL BE ADHERED TO.

TC=29.60±

<u>build 30' drivepad</u>

PER CITY STD DWG 2425.

5324.25 DRTS SW1

2' WIDE, 6" DEEP

×5319.19 ×PRPC

COBBLE SWALE

TURN 4 BLOCKS 3" ABOVE GRADE

(EL=24.0)

INSTALL FILTER FABRIC

COBBLE STONE SWALE

(SEE DETAIL THIS SHEET).

NEW WALL

_5323.03 FL2

_TC=29.25±

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,

10. FOR SITE DIMENSIONS, BUILDING AND INFRASTRUCTURE LOCATION REFER TO THE SITE

5328.56 SURVTEK CP-100

40001 5328.66 TRNS

5325.18

GRADE SWALE.

— BUILD RETAINING WALL

FIRST FLUSH POND 85'X5'X1'(LxWxD),

BOTTOM OF POND EL=23.0

"V" TYPE POND - VOLUME=212CF

AS REQ'D, DESIGN BY OTHERS.

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

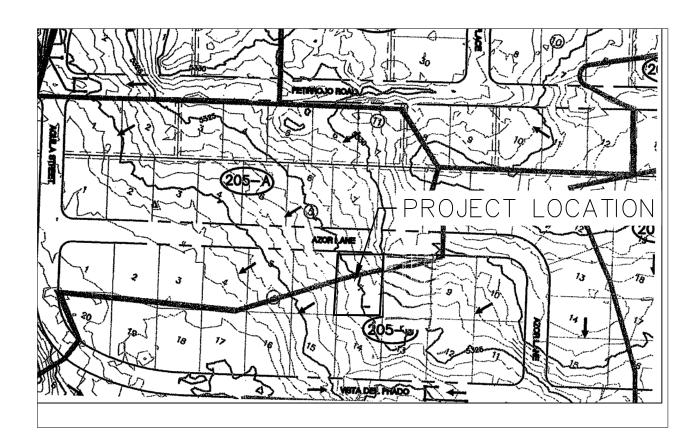
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.

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.

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.



EXCERPT FROM SAD 228 DRAINAGE REPORT

I, Richard Dourte have personally inspect this site. I hereby certify that the pad has been constructed in sustantial





FIRM MAP:

35001C0112G

LEGAL DESCRIPTION:

LOT 7, BLOCK 4, VOLCANO CLIFF, UNIT 19 CITY OF ALBUQUERQUE

BERNALILLO COUNTY, NEW MEXICO

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE

2. RETAIN THE FIRST .46" OF STORM RUNOFF FROM ENTIRE DEVELOPMENT TO CONFORM TO THE WATER QUALITY REQURIEMENTS

LEGEND

46.00	PROPOSED SPOT ELEVATION
TW=44.00	TOP OF WALL ELEVATION BOTTOM OF WALL ELEVATION
	EXISTING CONTOUR
5600	EXISTING INDEX CONTOUR
5601	PROPOSED CONTOUR
5600	PROPOSED INDEX CONTOUR
	LOT LINE
	RIGHT-OF-WAY
	PROPOSED RETAINING WALL
	PROPOSED ROCK FACE WALL
:======================================	EXISTING CURB AND GUTTER
	PROPOSED EDGE OF CONCRETE
◀——	PROPOSED FLOWLINE
	EXISITING WALL
	PROPOSED BASIN BOUNDARY

ENGINEER'S

Richard Dourte P.E. #10854

DRAWN Title 6532 AZOR LANE NE GRADING AND DRAINAGE PLAN SHEET # of 1

JOB #

RHD Engineering, LLC 4305 Purple Sage Ave. NW ALBUQUERQUE, NM 87120 (505) 288-1621

I, RICHARD DOURTE HAVE PERSONALLY INSPECTED THE PROPERTY ON MAY 1, 2018. NO EARTHWORK HAS BEEN PERFORMED AND THE SITE IS CONSISTENT 5/07/18

compliance with the approved grading and drainage plan stamp dated 5-07-18.