# CITY OF ALBUQUERQUE



Richard J. Berry, Mayor

October 30, 2017

Jeffrey T. Wooten, P.E. Wooten Engineering 1005 21st Street SE, Suite 13 Rio Rancho, NM, 87124

RE: 813 Mountain Rd NW (BP-2017-19532)

Grading and Drainage Plan

Request for Permanent C.O. - Accepted

Engineer's Stamp Date: 05/17/16

Engineer's Certification Date: 10/25/17

**Hydrology File: J14D188** 

PO Box 1293 Dear Mr. Wooten:

Based on the Certification received 10/26/17 and site visit on 10/27/17, the site is acceptable for a Permanent Certificate of Occupancy by Hydrology and the Grading Plan is approved for Puilding Permit

for Building Permit.

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

NM 87103

Albuquerque

Sincerely,

www.cabq.gov

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

Renée C. Brissette

Planning Department



## City of Albuquerque

#### Planning Department

#### Development & Building Services Division

#### DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title:	Building Permit #: City Drainage #:						
DRB#: EPC#:							
Legal Description:							
City Address:							
Engineering Firm:	Contact:						
Address:							
Phone#: Fax#:	E-mail:						
Owner:	Contact:						
Address:							
Phone#: Fax#:	E-mail:						
Architect:							
Address:							
	E-mail:						
Other Contact:	Contact:						
Address:							
Phone#: Fax#:	E-mail:						
DEPARTMENT: HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL	CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:BUILDING PERMIT APPROVALCERTIFICATE OF OCCUPANCY						
	CERTIFICATE OF OCCUPANCE						
TYPE OF SUBMITTAL:	PRELIMINARY PLAT APPROVAL						
ENGINEER/ ARCHITECT CERTIFICATION	SITE PLAN FOR SUB'D APPROVAL						
CONCEPTUAL G & D PLAN	SITE PLAN FOR BLDG. PERMIT APPROVAL						
GRADING PLAN	FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE						
DRAINAGE MASTER PLAN	FOUNDATION PERMIT APPROVAL						
DRAINAGE REPORT	GRADING PERMIT APPROVAL						
CLOMR/LOMR	SO-19 APPROVAL						
	PAVING PERMIT APPROVAL						
TRAFFIC CIRCULATION LAYOUT (TCL)	GRADING/ PAD CERTIFICATION						
TRAFFIC IMPACT STUDY (TIS)	WORK ORDER APPROVAL						
EROSION & SEDIMENT CONTROL PLAN (ESC)	CLOMR/LOMR						
OTHER (SPECIFY)	PRE-DESIGN MEETING						
	OTHER (SPECIFY)						
IS THIS A RESUBMITTAL?: Yes No							
DATE SUBMITTED:By:							

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_

### CAUTION - NOTICE TO CONTRACTOR

GARDEN

AREA

TRACT C-1

0.2256 acre

61.50/

PROPOSED RESIDENCE

FFE=49<del>62.00</del>

PROPOSED RESIDENCE

Elev at Doors=4962.00

MOUNTAIN ROAD N. W.

FFE = 4962.00 4962.01

S 88°25'31" E

61.60 *61.50* 

EXISTING

RESIDENCE

FF=4962.12

City of Albuquerque

Control Station 17\_J14

NAD 83 NAVD 1988

N 1488866.762

E 1519149.317

Orthometric Height = 4957.484

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL NEW MEXICO ONE CALL (DIAL 811 OR VISIT WWW.NM811.ORG) AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

## LEGEND

--- FLOW ARROW

PROPOSED TOP OF GRADE/PVMT ELEVATIONS

FL27.8

PROPOSED FLOW LINE/GUTTER ELEVATIONS

PROPOSED GRADE AT BOTTOM OF WALL

PROPOSED TOP OF CURB ELEVATIONS

FGH27.8

PROPOSED GRADE AT TOP OF WALL

EXISTING CONTOUR

PROPOSED CONTOUR

EXISTING STORM DRAIN

\_\_\_\_ FLOW LINE
\_\_\_\_ RIDGE LINE

#### DRAINAGE MANAGEMENT PLAN

#### INTRODUCTION

The purpose of this submittal is to provide a final drainage management plan for the proposed residence located at 811 Mountain Rd NW in Albuquerque, NM. The site is approximately 0.2256 acres.

#### EXISTING HYDROLOGIC CONDITIONS

The site is located in a very flat area in the valley and currently ponds onsite with an overflow discharge to Mountain Rd NW. Per the Drainage Calculations Table this sheet, 0.71cfs (925 CF) accumulates on the site before overflowing to Mountain Rd NW.

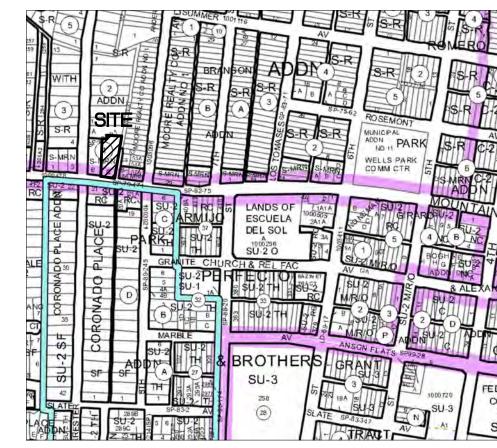
#### PROPOSED HYDROLOGIC CONDITIONS

Since the site currently does not have a discharge point other than the overflow to Mountain Rd NW, we propose to collect the drainage in retention ponds. Per the DPM, we are required to collect and store the 100-Yr, 10-Day storm event. Per the Drainage Calculations table this sheet, 0.81cfs (1,562 CF) will be required to be collected onsite and stored in retention ponds. We are reflecting five (5) new ponds labeled as Ponds 'A' through 'E' which will contain a total of +/-2,007 CF of stormwater volume onsite. We are proposing this excess volume to allow for a factor of safety due to construction tolerances. In the event of storm larger than the 100-Yr, 10 Day storm, the excess flows will overflow to Mountain Rd NW. The Finished Floor Elevation of the proposed residence has been set at 62.00 whereas the overflow elevation at the driveway is approximately 60.50. This will ensure that the residence will not be flooded during excessive rainfall events.

### CONCLUSION

This drainage management plan provides for grading and drainage elements which are capable of safely passing the 100 year storm, does not burden downstream systems, and meet city requirements. With this submittal, we are requesting approval of the Grading Plan for Building Permit.

		Ex	risting 811	Moun	tain Rd	NW Dra	ainage (	Calcula	tions			
	This	table is based o	d on the COA DPM Section 22.2, Zone: 2									
BASIN	Area	Area Area Land Treatment Percentages					Q(100)	Q(100)	WTE	V(100) <sub>360</sub>	V(100) <sub>1440</sub>	V(100) <sub>10da</sub>
	(SQ. FT)	(AC.)	A	В	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(CF)
Site Area	9827	0.23	0.0%	0.0%	100.0%	0.0%	3.14	0.71	1.13	925	925	925
												-
TOTAL	9827	0.23						0.71		925	925	925
		Propo	sed 811 M	lountai	n Rd NV	/ Drain	ane Cal	culatio	ne			
	Proposed 811 Mountain Rd NW Drain							curatio	113		1	
	Ultimate Development Conditions Basin I						Data Table					
			on the COA DPM Section 22.2, Zone: 2									
BASIN	Area	Area	Land Treatment Percentages			Q(100)	Q(100)	WTE	V(100) <sub>360</sub>	V(100) <sub>1440</sub>		
	(SQ. FT)	(AC.)	A	В	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(CF)
Site Area	9827	0.23	0.0%	0.0%	70.0%	30.0%	3.61	0.81	1.43	1169	1267	1562
TOTAL	9827	0.23						0.81		1169	1267	1562



#### VICINITY MAP - Zone Atlas J-14

Legal Description: Lots C—1, Plat of Lots C—1 & C—2, with Addition, Projected Section 17, T 10 N, R3E, NMPM, Town of Albuquerque Grant



#### FIRM MAP 35001C0332G

Per FIRM Map 35001C0332G, dated September 26, 2008, the site is not located in the Floodplain.

### <u>GRADING NOTES</u>

1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.

2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.

3. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).

4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.

5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED

6. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT—OF—WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS OR SILT FENCE AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.

7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

8. PAVING AND ROADWAY GRADES SHALL BE +/- 0.05' FROM PLAN ELEVATIONS.
PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.

9. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR PAVEMENT, MEDIANS, AND ISLANDS.

10. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION (IF APPLICABLE) PRIOR TO BEGINNING CONSTRUCTION.

11. THE CONTRACTOR SHALL PROVIDE THE SWPPP DOCUMENT (IF NECESSARY) AND SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.

## DRAINAGE CERTIFICATION

I, JEFFREY T. WOOTEN, NMPE 16892, OF THE FIRM WOOTEN ENGINEERING, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 5/17/16. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY CHRISTOPHER J. DEHLER, NMPS 7923. I FURTHER CERTIFY THAT I PERSONALLY VISITED THE PROJECT SITE ON 10/20/17 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 FINAL CERTIFICATE OF OCCUPANCY (FINAL C.O.).

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.



C1.0

2017023

May 17, 2017

Project Number

Grading Plan

Drawn By

Checked

Issue Date

JEFFREY T. WOOTEN, NMPE 16892

Proposed Residence 811 Mountain Road NW Ibuquerque, New Mexico 87102

Ooten E 05 21st St S o Rancho, I none: (505)