# CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



June 21, 2016

Martin J. Garcia Anchor Engineering 1160 Bosque Farms Blvd Suite E Bosque Farms NM, 87068

RE: Madrid Residence SAD 228

6512 Petirrojo NW Grading and Drainage Plan

Engineers Stamp Date 2/18/19 (D10D003H24)

Pad Certification Date 5/6/19

Dear Mr. Garcia,

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Based upon the information provided in your submittal received 5/8/19, this plan is approved for Building Permit.

Please inform the Architect/Owner or the contractor to attach a copy of this approved plan dated 2/18/19 pad cert dated 5/6/19 to the construction sets in the permitting process prior to sign-off by Hydrology. If this plan is not with the construction plan sets the permitting process will be held up until the plan is provided.

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

If you have any questions, please contact me at 924-3686 or Rudy Rael at 924-3977.

Sincerely,

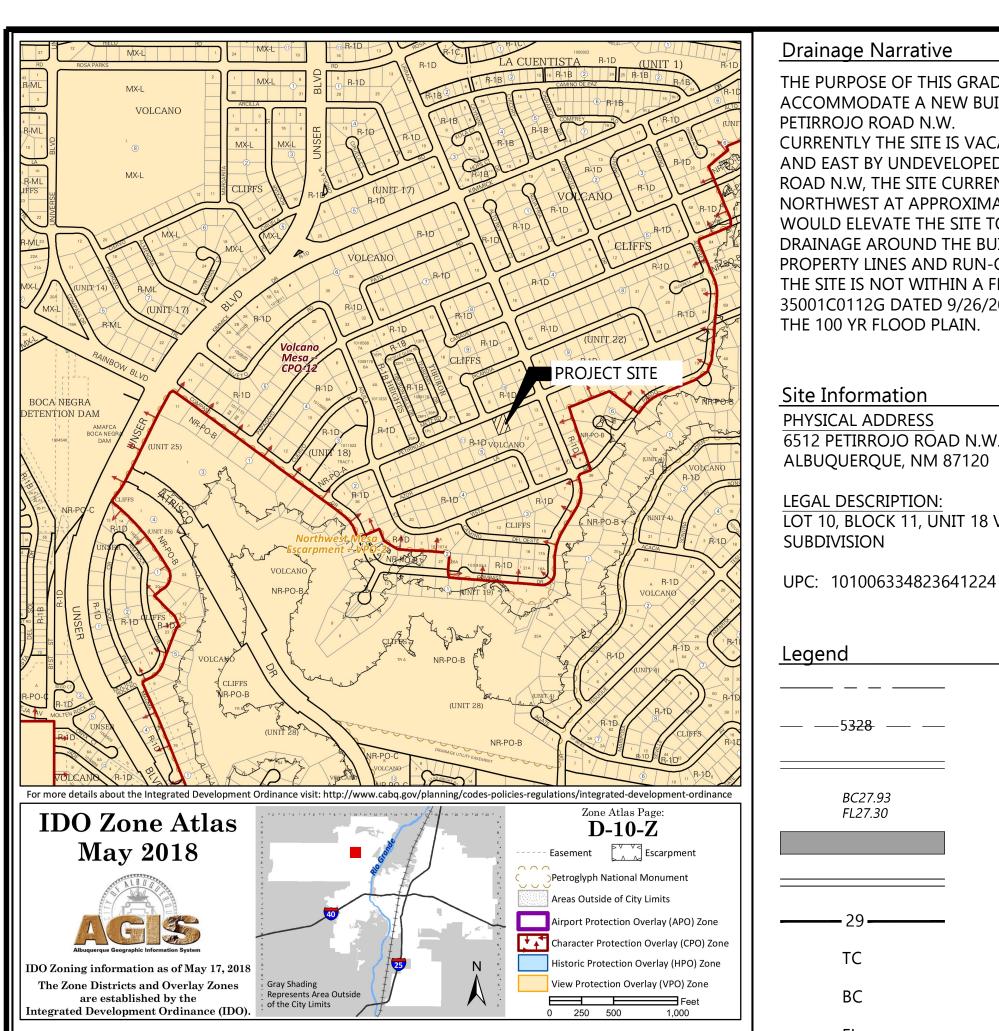
James D. Hughes, P.E.

Principal Engineer, Hydrology

Planning Department

RR/JDH

C: File D10D003H24



Drainage Calculations				
Hydrology Calculations				
DPM - Section 22.2				
Volume 2, January 1993				
Precipitation Zone	1			
100 Year Storm Depth, P (360)	2.2			
Treatment Area	Α	В	С	D
Excess Precipitation Factors	0.44	0.67	0.99	1.97
Peak Discharge Factors	1.29	2.03	2.87	4.37
Land Treatment Area	Acres	Existing		Proposed
Type "D" (Roof)		0		0.17
Type "C" (Unpaved Roadway)		0		0.06
Type "B" (Irrigated Lawns)		0		0.10
Type "A" (Undeveloped)		0.33		0.00
Total (Acres)		0.33		0.33
Excess Precipitation(in)		0.44		1.40
Volume (100), cf		527.08		1674.52
Volume (10),cf		353.14		1121.93
Q (100), cfs		0.43		1.12
Q (10), cfs		0.29		0.75

## **Pond Calculations**

0.17 x 43560 = 7405.20

 $7405.20 \quad \frac{.34}{12} = 209.81$ 

A28.25 CONTOUR = 458.97 SF 458.97 x .5 = 229.49 CF

POND VOLUME REQUIRED = 209.81 CF

POND VOLUME PROVIDED = 229.49 CF

### Drainage Narrative

THE PURPOSE OF THIS GRADING AND DRAINAGE PLAN IS TO ACCOMMODATE A NEW BUILDING PAD FOR A NEW RESIDENCE AT 6512

PETIRROJO ROAD N.W. CURRENTLY THE SITE IS VACANT AND IS BOUND TO THE WEST, SOUTH AND EAST BY UNDEVELOPED LOTS, AND TO THE NORTH BY PETIRROJO ROAD N.W, THE SITE CURRENTLY SLOPES FROM THE SOUTHEAST TO THE NORTHWEST AT APPROXIMATELY 2.7%. THE PROPOSED GRADING PLAN WOULD ELEVATE THE SITE TO PROVIDE A BUILDING PAD AND PROPER DRAINAGE AROUND THE BUILDING ALONG THE EAST AND WEST PROPERTY LINES AND RUN-OFF TO PETIRROJO ROAD.

THE SITE IS NOT WITHIN A FLOOD PLAIN AS SHOWN ON FEMA PANEL 35001C0112G DATED 9/26/2008, DESIGNATED AS ZONE "X" NOT WITHIN THE 100 YR FLOOD PLAIN.

### Site Information

PHYSICAL ADDRESS 6512 PETIRROJO ROAD N.W.

#### LEGAL DESCRIPTION:

LOT 10, BLOCK 11, UNIT 18 VOLCANO CLIFFS SUBDIVISION

UPC: 101006334823641224

## Legend

— 5 <del>328</del> — —	EXISTING CONTOUR
	EXISTING CURB AND GUTT
BC27.93 FL27.30	EXISTING SPOT ELEVATION

PROPERTY BOUNDARY

NEW BUILDING
 NEW PERIMETER CMU WA

**NEW CONTOUR** 

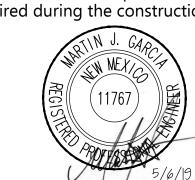
TC	TOP OF CONCRETE
ВС	BACK OF CURB
FL	FLOW LINE
FF	FINISH FLOOR
FP	FINISH PAD

TW TOP OF WALL **BOTTOM OF WALL** 

FG FINISH GRADE

## Pad Certtification

I, MARTIN J. GARCIA, of the firm, Anchor Engineering LLC, a Registered Professional Engineer in the state of New Mexico, do hereby certify, to the best of my knowledge and belief, that the grading shown on this plan has been inspected by me and has been constructed in accordance with the approved plans and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This pad certification is based on site inspections by me or under my direction and survey information aquired during the construction process.



### Project Benchmark

THE LOCAL BENCHMARK AS SHOWN, IS A FOUND REBAR BEING THE SOUTHEAST CORNER OF THE PROJECT SITE. N: 1516117.53

E: 1501217.78 E: 5331.29



**TC2**8.73

TC28.38

TC28.69

TW 34.03

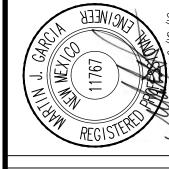
FG 28.81

TW 35.36 TW 34.63

FG 29.00

TW 35.36 FG 30.00

SCALE: 1" = 10'







TW 36.03 FG 30.00

FF = 30.83

TW 36.70

TW 36.03 FG 30.00

