# CITY OF ALBUQUERQUE

Planning Department
Brennon Williams Director



Mayor Timothy M. Keller

January 13, 2020

Jackie McDowell, PE McDowell Engineering, Inc. 7820 Beverly Hills Ave NE Albuquerque, NM 87121

RE: Lot 21-A Block 2 Unit 18, S.A.D. 228
7704 Compass Dr. NW
Grading and Drainage Plan
Engineers Stamp Date 1-10-20 (D10D003G21A)

Dear Ms. McDowell,

Based upon the information provided in your submittal received 1/9/20, this plan cannot be approved for Grading Permit until the following comments are addressed

PO Box 1293

Albuquerque

NM 87103

NM 8/103

www.cabq.gov

Show the 24" Storm Sewer pipe in the west property line.

 Provide a statement that if a wall is built above the 24" SS line and if repairs should need to take place the wall will be removed and not replaced.
 Replacement will be at the cost of the owners.

Prior to Building permit approval a Pad Certification will be required, provided by the Engineer signed and dated or a registered Land Surveyor with as-build elevations.

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

Sincerely,

Ernest Armijo, P.E.

Principal Engineer, Hydrology

Planning Department

RR/EA

File: D10D003G21A



# City of Albuquerque

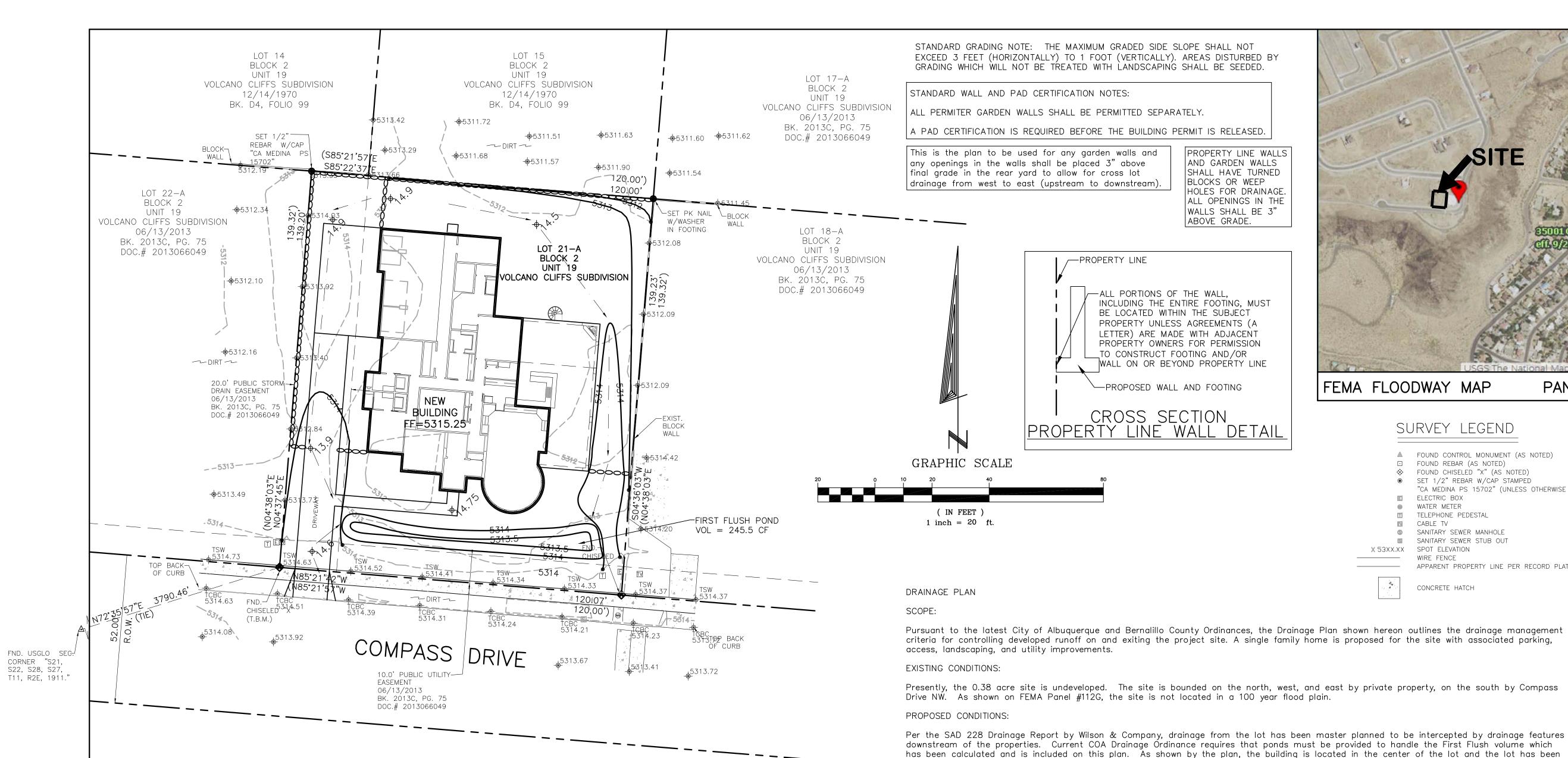
### Planning Department

### Development & Building Services Division

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

Project Title: Building Po		ermit #:	Hydrology File #:			
DRB#:						
Legal Description:						
City Address:						
Applicant:			Contact:			
Address:						
Phone#:	Fax#:		E-mail:			
Other Contact:			Contact:			
Address:						
Phone#:						
TYPE OF DEVELOPMENT:	PLAT (# of lots)	RESIDENCE	DRB SITE ADMIN SI			
IS THIS A RESUBMITTAL?	Yes No					
DEPARTMENT TRANSPO	RTATIONHY	DROLOGY/DRAINAC	GE			
Check all that Apply:  TYPE OF SUBMITTAL:  ENGINEER/ARCHITECT CERTON  CONCEPTUAL G & D PLAN  GRADING PLAN  DRAINAGE REPORT  DRAINAGE MASTER PLAN  FLOODPLAIN DEVELOPMEN  ELEVATION CERTIFICATE  CLOMR/LOMR  TRAFFIC CIRCULATION LAT  TRAFFIC IMPACT STUDY (INCOMPACT STUDY)  OTHER (SPECIFY)  PRE-DESIGN MEETING?	IT PERMIT APPLIC YOUT (TCL) TIS)	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				

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



FEMA FLOODWAY MAP PANEL #112G VICINITY MAP ZONE ATLAS D-10

## SURVEY LEGEND

▲ FOUND CONTROL MONUMENT (AS NOTED) FOUND CHISELED "X" (AS NOTED) SET 1/2" REBAR W/CAP STAMPED "CA MEDINA PS 15702" (UNLESS OTHERWISE NOTED) ELECTRIC BOX WATER METER TELEPHONE PEDESTAI CABLE TV SANITARY SEWER MANHOLE SANITARY SEWER STUB OUT X 53XX.XX SPOT ELEVATION WIRE FENCE APPARENT PROPERTY LINE PER RECORD PLAT

CONCRETE HATCH

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PROPOSED

RETAINING WALL/WALL

SPOT ELEVATION

5313.72

LEGEND

**EXISTING** 

## **SURVEY NOTES:**

## LEGAL DESCRIPTION

LOT 21-A, BLOCK 2, UNIT 19, VOLCANO CLIFFS SUBDIVISION

### PROJECT LOCATION 7704 COMPASS DRIVE, ALBUQUERQUE, NEW MEXICO

SURVEY INFORMATION

TOPOGRAPHIC SURVEY PERFORMED AND COMPILED BY TERRA LAND SURVEYS, LLC. CORRALES, NEW MEXICO DECEMBER 2019. PROJECT BENCHMARK

PROJECT BENCHMARK IS A USGLO SECTION CORNER DISC SET IN A 12 INCH CONCRETE POST POURED AROUND THE ORIGINAL IRON PIPE 1 FOOT ABOVE GROUND STAMPED, "S21, S22, S28, S27. T11, R2E, 1911." TO REACH THE STATION BENCHMARK FROM THE INTERSECTION OF MONTANO ROAD AND UNSER BOULEVARD NORTHWEST, TRAVEL NORTHWEST ON UNSER BOULEVARD 0.78 MILES TO MOLTEN ROCK ROAD NORTHWEST, TURN LEFT AND TRAVEL 320 FEET TO 81ST STREET NORTHWEST AND THE STATION IS LOCATED ON THE SOUTHEAST QUADRANT OF THE INTERSECTION. ELEVATION = 5,330.151

## TEMPORARY BENCHMARK

TEMPORARY BENCHMARK IS THE SOUTHWEST PROPERTY CORNER BEING A FOUND CHISELED "X" IN THE BACK OF THE SIDEWALK. ELEVATION=5,314.55 FEET (NAVD 1988 VERTICAL DATUM).

## <u>NOTES</u>

1. FIELD SURVEY PERFORMED IN DECEMBER 2019.

2. TOPOGRAPHIC SURVEY WAS COMPILED UTILIZING GROUND COORDINATES REFERENCED TO THE NAD 83 NEW MEXICO CENTRAL ZONE COORDINATE SYSTEM. PRIMARY HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED UTILIZING GPS RTK METHODS (COMBINED GROUND TO GRID FACTOR = 0.999670836 SCALED AROUND 0,0).

3. ELEVATIONS SHOWN FOR PIPES ARE INVERT ELEVATIONS UNLESS OTHERWISE SPECIFIED.

4. CONTOURS SHOWN HEREON ARE AT A ONE FOOT INTERVAL REFERENCED TO THE NAVD 88 VERTICAL DATUM.

## GENERAL DRAINAGE PLAN NOTES:

1. It is recommended that the Owner obtain a Geotechnical Evaluation of the on—site soils prior to foundation/structural design.

2. This plan recommends positive drainage away from all structures to prohibit ponding of runoff adjacent to the structure. Future alterations of the grades next to the structures are not recommended.

3. Irrigation within 10 feet of any proposed structure is not recommended. Irrigation water adjacent to the structures could cause settlement.

4. This plan establishes on—site drainage and assumes no responsibility for subsurface analysis, foundation or structural design, or utility design.

5. Local codes may require all footings to be placed in natural undisturbed soil. If the contractor plans to place footings on engineered fill, a certification by a registered Professional Engineer is recommended.

6. It is recommended that the Owner obtain the services of a Geotechnical Engineer to test and inspect all earthwork aspects of the project.

7. The property boundary shown on this plan is given for information only to describe the project limits. Property boundary information shown hereon does not constitute a boundary survey.

8. All work shall be constructed in accordance with the City of Albuquerque Standard Specifications for Public Works Construction with updates.

9. All work on this project shall be performed in accordance with applicable Federal, State, and Local laws, rules, and regulations concerning construction safety and health.

10. Contactor shall ensure that no site soils/sediment or silt enters the righ—of—ways during construction.

11. Areas disturbed due to construction shall be restored per City of Albuquerque Spec. 1012 native seed mix.

## Supplemental calculations are shown as part of this Grading and Drainage plan.

be directed around the structure to the drainage paths and pond.

## CALCULATIONS:

The calculations shown hereon define the 100 year—6 hour design storm falling within the project area under existing and developed conditions. The Hydrology is per "Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, New Mexico in cooperation with Bernalillo County, New Mexico and the Albuquerque Metropolitan Arroyo Flood Control Authority.

designed to drain to the pond. Negligible off-site flows enter the site. On site flows will drain around the structure via swales, and flow to the south to the first flush retention pond located at the southerly portion of the lot. All roof drainage will discharge from the roof to the lot and

## PROPERTY ADDRESS:

Freatment C

Freatment D

7704 Compass Dirve NW

## TOPOGRAPHY:

Topographic information provided by Christopher Medina, Terra Land Surveys, LLC. dated December, 2019.

ZONE 1	Percent Impo	ervious = 0.18	3/0.38 = 47%			
Areas: (acres)	1		]			
	Existing	Proposed		POND VOLUME PROVIDED:		
Treatment A	0.38	0.00		ELEV.	AREA	VOL. (CF)
Treatment B	0.00	0.15		5314	772	
Treatment C	0.00	0.05				245.5
Treatment D	0.00	0.18		5313.5	210	
Total (acres) :	= 0.38	0.38				
		•	ע	IND VOL PR	OVIDED =	245.5
Volume	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing		Existing	Proposed
Volume (acre-feet)	= 0.014	0.042	0.003	0.023	0.000	0.01
Volume (cubic feet)	= 607	1,832	110	1,010	C	498
FIRST FLUSH REQUIRED POND VOL	= 0.34"/(12"/F	T)*(0.18 AC *	43560 SF/AC	C) = 222 CF		
Total Q(p), cfs:						
	100 year		10 year	10 year	2 year	2 year
	Existing		Existing	·	Existing	Proposed
	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A
Treatment A	0.49	0.00	0.09	0.00	0.00	0.00
Treatificity A	U.43	0.00	0.08	0.00	<u>  0.00</u>	0.00

0.14

0.79

1.23

0.00

0.00

0.09

0.00

0.49

Total Q (cfs) =

0.07

0.71

0.00

0.00

0.00

0.02



## ENGINEER'S CERTIFICATION:

RAM0119L

I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on December 22, 2019 and as of that date it appeared that no filling, grading, or excavation had occurred thereon since completion of the topographic survey used to prepare this plan.

7704 COMPASS DR. NW, ALBUQUERQUE, NM 87120

CITY OF ALBUQUERQUE, BERNALILLO COUNTY

LOT 21-A, BLOCK 2, UNIT 19 VOLCANO CLIFFS SUBDIVISION

RAMOS, MANUEL (M. SANCHEZ) - GRADING & DRAINAGE PLAN

NEW MEXICO

DECEMBER,2019

TELE: 505-828-2430 • FAX: 505-821-4857 Checked JSM signed JSM Drawn STAFF

GRADING 12-27-19