CITY OF ALBUQUERQU

Planning Department Alan Varela, Director



October 18, 2022

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

RE: Lots 19 Block 5 Unit 22, S.A.D. 228

Volcano Cliffs Subdivision

6620 Sujeto R. NW

Grading and Drainage Plan

Engineers Stamp Date 9/10/2020

Certificate of Occupancy Date: 9/30/2022 (D10D003K19)

Ms. McDowell, PO Box 1293

Based upon the information provided in your submittal received 10/13/2022, this plan is

approved for Certificate of Occupancy by Hydrology

Albuquerque

If you have any questions, please contact me at 924-3695 or Rudy Rael at 924-3977.

Sincerely,

NM 87103

www.cabq.gov

Tiequan Chen, P.E.

Principal Engineer, Hydrology

Planning Department

RR/EA

C:D10D003K19



City of Albuquerque

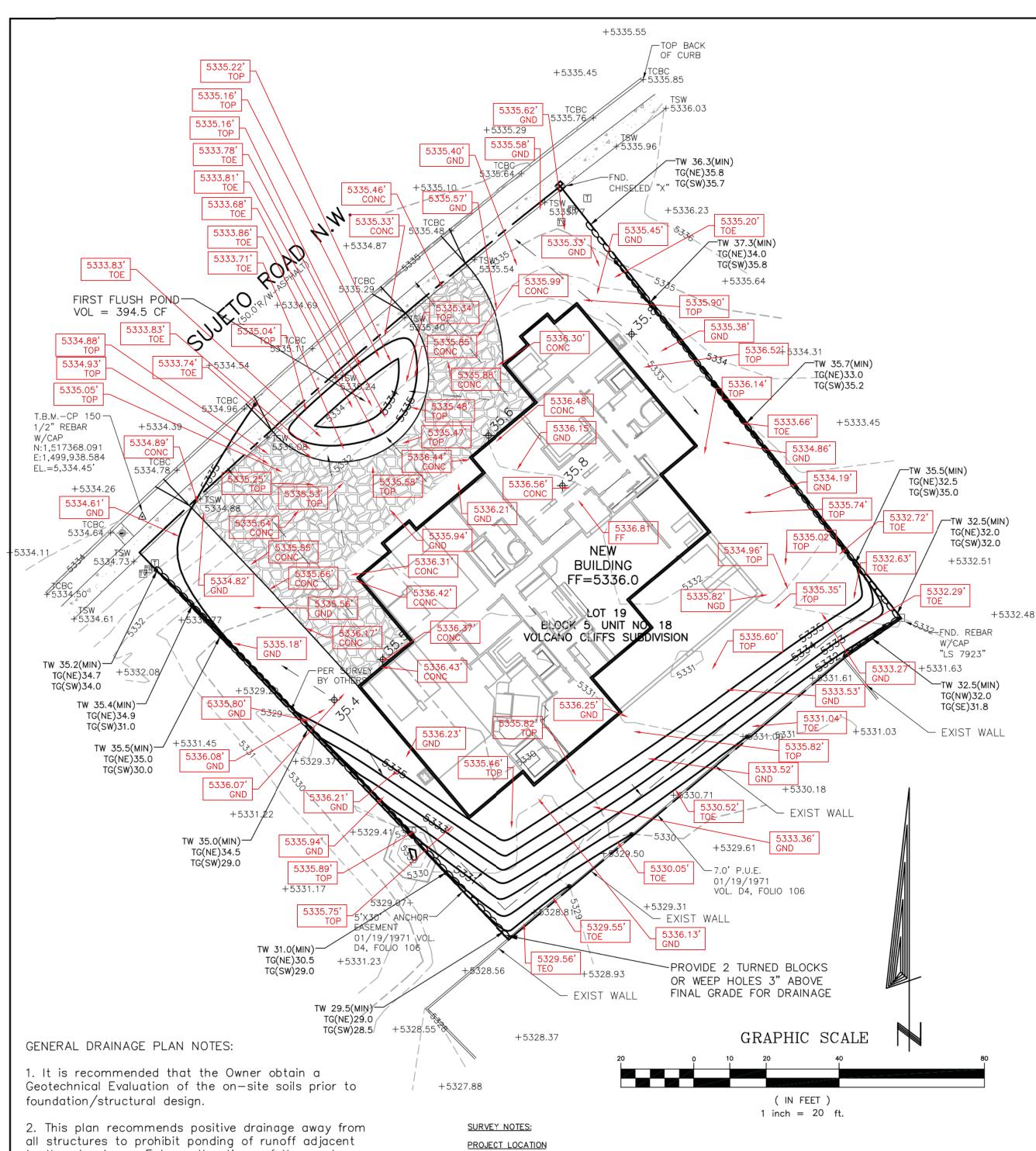
Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: OLIVAS, JONATHAN DRB#:			
Legal Description: LOT 19, BLOCK 5, UNIT 18,			
City Address: 6620 Sujeto Rd NW, ALB., NM 8712			
-			
		Contact: JACKIE MCDOWELL	
Address: 7820 BEVERLY HILLS AVE. NE			
Phone#: 505-828-2430	Fax#:	E-mail: jackmcdowell@comcast.net	
Other Contact: BUILDER: MICHAEL SANCHEZ		Contact: MICHAEL SANCHEZ	
Address: PO Box 45091, Rio Rancho, NM 87174			
Phone#: (505) 220-7507	Fax#:	E-mail: msanchez02@msn.com	
TYPE OF DEVELOPMENT: PLAT (#	f of lots) X RESIDENCE	DRB SITEADMIN SITE	
IS THIS A RESUBMITTAL? Yes	X No		
DEDARTMENT TRANSPORTATION	X INVENOU OCV/DRAINIACE		
DEPARTMENT TRANSPORTATION	A HYDROLOGY/DRAINAGE		
Check all that Apply:	TYPE OF APPROV	AL/ACCEPTANCE SOUGHT:	
TYPE OF SUBMITTAL:	X BUILDING PER		
ENGINEER/ARCHITECT CERTIFICATION	CERTIFICATE	OF OCCUPANCY	
X PAD CERTIFICATION			
CONCEPTUAL G & D PLAN		PRELIMINARY PLAT APPROVAL	
GRADING PLAN		R SUB'D APPROVAL	
	SITE PLAN FO	R BLDG. PERMIT APPROVAL	
DRAINAGE MASTER DI AN	FINAL PLAT A	APPROVAL	
DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMIT A ELEVATION CERTIFICATE	SIA/ KELEASE	OF FINANCIAL GUARANTEE	
CLOMR/LOMR		FOUNDATION PERMIT APPROVAL	
TRAFFIC CIRCULATION LAYOUT (TCL)		GRADING PERMIT APPROVAL	
TRAFFIC IMPACT STUDY (TIS)	SO-19 APPROV		
	PAVING PERM	IIT APPROVAL	
STREET LIGHT LAYOUT	GRADING/ PAI	GRADING/ PAD CERTIFICATION	
OTHER (SPECIFY)	WORK ORDER	APPROVAL	
PRE-DESIGN MEETING?	CLOMR/LOMR		
	FLOODPLAIN	DEVELOPMENT PERMIT	
	OTHER (SPEC	IFY)	
DATE SUBMITTED: 8-30-21	By: JACKIE MCDOWELL		
COA STAFF:	ELECTRONIC SUBMITTAL RECEIVED:		

FEE PAID:_____



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.

6620 SUJETO ROAD NW, ALBUQUERQUE, NEW MEXICO

SURVEY INFORMATION

TOPOGRAPHIC SURVEY PERFORMED AND COMPILED BY TERRA LAND SURVEYS, LLC. CORRALES, NEW MEXICO AUGUST 2020.

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 LETT 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 PROJECT BENCHMARK

PROJECT BENCHMARK CP 150 IS A TERRA LAND SURVEY 1/2" REBAR WITH PLASTIC CAP STAMPED "TERRA CONTROL" ELEVATION = 5,334.45 FEET (NAVD 1988 VERTICAL DATUM).

NOTES 1. FIELD SURVEY PERFORMED IN AUGUST 2020.

2. TOPOGRAPHIC SURVEY WAS COMPILED UTILIZING SURFACE COORDINATES REFERENCED TO NAD 1983 NEW MEXICO CENTRAL ZONE. FRIMARY HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED UTILIZING GPS RTK METHODS. COMBINED GROUND TO GRID FACTOR IS 0.999671106 SCALED

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

4. CONTOURS SHOWN HEREON ARE AT A ONE FOOT INTERVAL REFERENCED

5. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL OF THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE

6. PIPE SIZES AND MATERIAL TYPES FOR MANHOLES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEYS AND VISUAL INSPECTIONS. THE SURVEYOR MAKES NO GUARANTEE THAT THE PIPE SIZES AND MATERIAL TYPES ARE EXACT BUT DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.

7. THIS IS NOT A BOUNDARY SURVEY PROPERTY LINES SHOWN ARE FOR

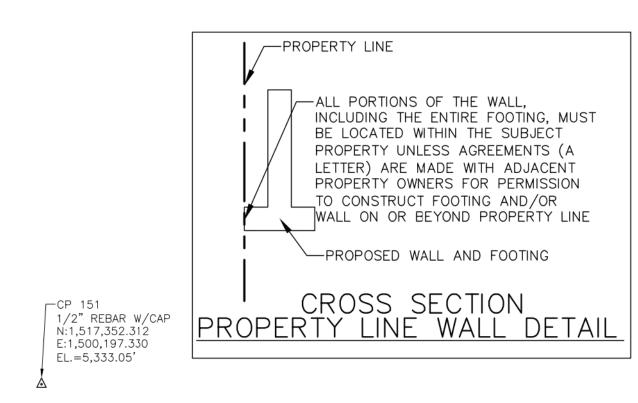
STANDARD GRADING NOTE: THE MAXIMUM GRADED SIDE SLOPE SHALL NOT EXCEED 3 FEET (HORIZONTALLY) TO 1 FOOT (VERTICALLY). AREAS DISTURBED BY GRADING WHICH WILL NOT BE TREATED WITH LANDSCAPING SHALL BE SEEDED.

STANDARD WALL AND PAD CERTIFICATION NOTES:

ALL PERMITER GARDEN WALLS SHALL BE PERMITTED SEPARATELY.

A PAD CERTIFICATION IS REQUIRED BEFORE THE BUILDING PERMIT IS RELEASED.

This is the plan to be used for any garden walls and any openings in the walls shall be placed 3" above final grade in the rear yard to allow for cross lot drainage from west to east (upstream to downstream). PROPERTY LINE WALLS AND GARDEN WALLS SHALL HAVE TURNED BLOCKS OR WEEP HOLES FOR DRAINAGE ALL OPENINGS IN THE WALLS SHALL BE 3" ABOVE GRADE.



DRAINAGE PLAN

Pursuant to the latest City of Albuquerque and Bernalillo County Ordinances, the Drainage Plan shown hereon outlines the drainage management criteria for controlling developed runoff on and exiting the project site. A single family home is proposed for the site with associated parking, access, landscaping, and utility improvements.

EXISTING CONDITIONS:

Presently, the 0.50 acre site is undeveloped. The site is bounded on the south, west, and east by private property, on the north by Sujeto Rd. NW. As shown on FEMA Panel #111G, the site is not located in a 100 year flood plain.

PROPOSED CONDITIONS:

Per the SAD 228 Drainage Report by Wilson & Company, drainage from the lot has been master planned to be intercepted by drainage features downstream of the properties. Current COA Drainage Ordinance requires that ponds must be provided to handle the First Flush volume which has been calculated and is included on this plan. As shown by the plan, the building is located in the center of the lot and the lot has been designed to drain to the north and south. Negligible off—site flows enter the site. On site flows will drain around the structure via swales, and flow to the south and north to the first flush retention pond located at the northerly portion of the lot. All roof drainage will discharge from the roof to the lot and be directed around the structure to the drainage paths and pond.

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

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.

PROPERTY ADDRESS:

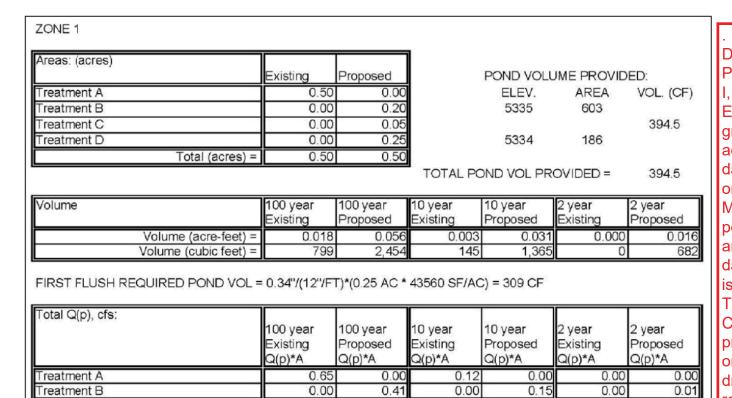
6620 SUJETO ROAD NW

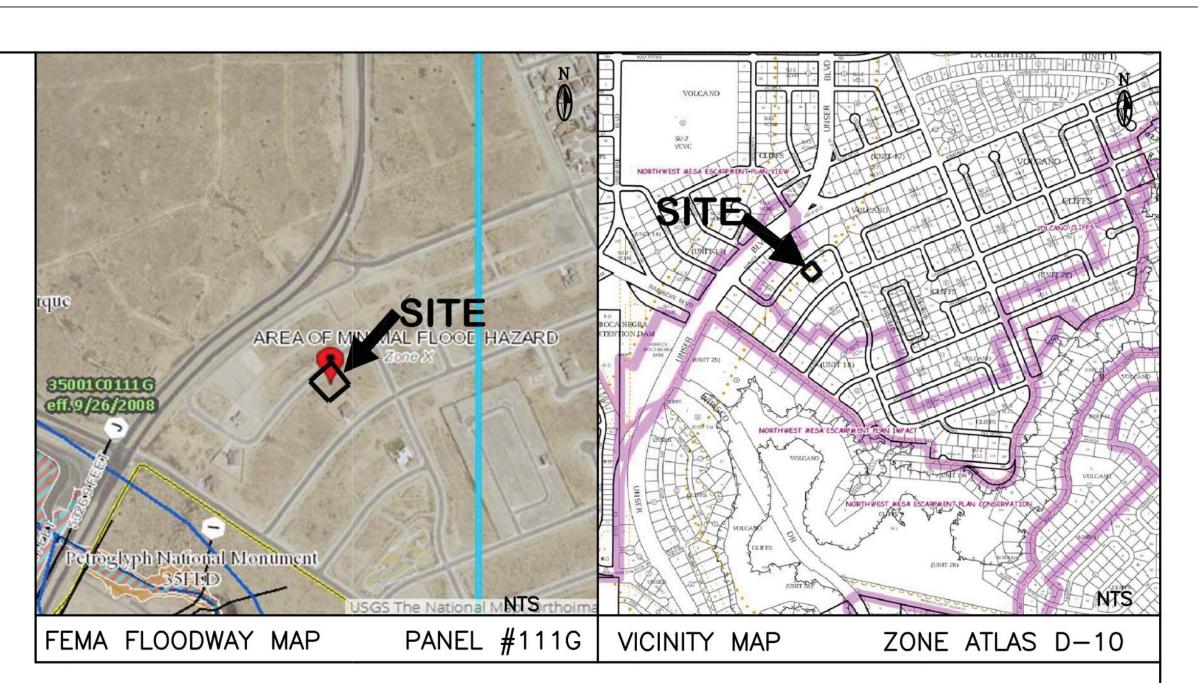
TOPOGRAPHY:

reatment C

reatment D

Topographic information provided by Christopher Medina, Terra Land Surveys, LLC. dated August, 2020.





CONTROL MONUMENT (AS NOTED) FOUND REBAR (AS NOTED) FOUND CHISELED "X" WATER METER TELEPHONE RISER TRANSFORMER CABLE TV +53xx.xx SPOT ELEVATION TOP BACK/BACK CURB

TOP OF SIDEWALK BLOCK WALL CONCRETE HATCH

WALL OPENING CALCULATIONS: Turned Block Weir Equation $Q=CLH^3/2$

Q=0.53 cfs capacity, so for the full block,

the total block capacity = 1.06 cfs

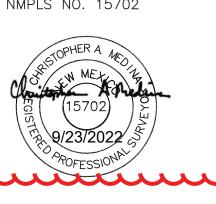
Q(max) = 1.04 cfs (total site runoff) H=0.5 ft for 1/2 block, 6" x 6" opening

SURVEYOR'S CERTIFICATE

CHRISTOPHER A. MEDINA, N.M.P.L.S. NO. 15702, DO HEREBY CERTIFY THAT THE AS-BUILT INFORMATION SHOWN AND THE ACTUAL SURVEY WHICH IT WAS DERIVED FROM WAS PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE INFORMATION SHOWN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

miterhen A Medin CHRISTOPHER A. MEDINA, NMPLS NO. 15702

SEPT. 23, 2022



9-30-22 - as-built cert for co

LEGEND

EXISTING

5313.72

PROPOSED

 ∞

RETAINING WALL/WALL

SPOT ELEVATION

DRAINAGE CERTIFICATION WITH SURVEY WORK BY

PROFESSIONAL SURVEYOR I, Jackie Mcdowell, NMPE #10903, of the firm McDowell Engineering, Inc., 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 9-10-20. The record information edited onto the original design document has been obtained by Christophe Medina, NMPS #15702. I further certify that I have ersonally visited the project site on September 30, 2022 d 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 Certificate of Occupancy. 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 the record document are advised to obtain independent verification of its accuracy before using it for any other

ENGINEER'S CERTIFICATION:

, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on September 3, 2020 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.

6620 SUJETO ROAD NW, ALBUQUERQUE, NM 87120

CITY OF ALBUQUERQUE, BERNALILLO COUNTY

LOT 19, BLOCK 5, UNIT 18

NEW MEXICO

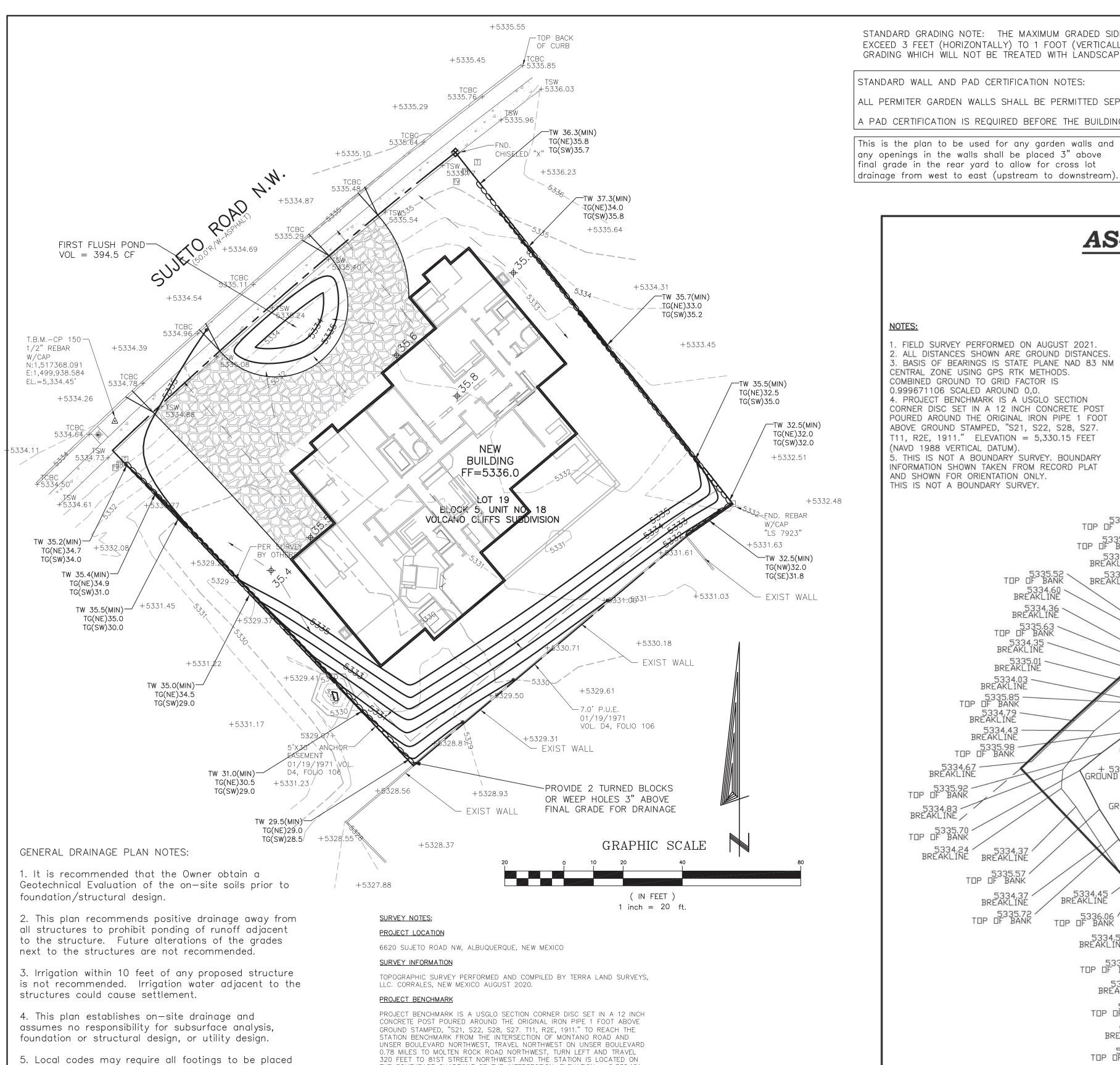
VOLCANO CLIFFS SUBDIVISION

McDowell Engineering, 9nc.

OLIVAS, JONATHAN (M. SANCHEZ) - GRADING & DRAINAGE PLAN

TELE: 505-828-2430 • FAX: 505-821-4857 Jesigned JSM JSM

SEPTEMBER,2020 0LI0120L



320 FEET TO 81ST STREET NORTHWEST AND THE STATION IS LOCATED ON THE SOUTHEAST QUADRANT OF THE INTERSECTION. ELEVATION = 5,330.151

TEMPORARY PROJECT BENCHMARK

PROJECT BENCHMARK CP 150 IS A TERRA LAND SURVEY 1/2" REBAR WITH PLASTIC CAP STAMPED "TERRA CONTROL" ELEVATION = 5,334.45 FEET (NAVD 1988 VERTICAL DATUM).

<u>NOTES</u>

1. FIELD SURVEY PERFORMED IN AUGUST 2020.

REFERENCED TO NAD 1983 NEW MEXICO CENTRAL ZONE. PRIMARY HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED UTILIZING GPS RTK METHODS. COMBINED GROUND TO GRID FACTOR IS 0.999671106 SCALED

3. ELEVATIONS SHOWN FOR PIPES ARE INVERT ELEVATIONS UNLESS

4. CONTOURS SHOWN HEREON ARE AT A ONE FOOT INTERVAL REFERENCED

5. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL OF THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE

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STANDARD WALL AND PAD CERTIFICATION NOTES:

NOTES:

ALL PERMITER GARDEN WALLS SHALL BE PERMITTED SEPARATELY.

A PAD CERTIFICATION IS REQUIRED BEFORE THE BUILDING PERMIT IS RELEASED. This is the plan to be used for any garden walls and any openings in the walls shall be placed 3" above

. FIELD SURVEY PERFORMED ON AUGUST 2021.

CENTRAL ZONE USING GPS RTK METHODS.

4. PROJECT BENCHMARK IS A USGLO SECTION

CORNER DISC SET IN A 12 INCH CONCRETE POST

POURED AROUND THE ORIGINAL IRON PIPE 1 FOOT

5. THIS IS NOT A BOUNDARY SURVEY, BOUNDARY

5334.60 BREAKLINE

5335,63 TOP OF BANK

5334.35 BREAKLINE

5335.01 BREAKLINE

5334.79 BREAKLINE

5335.57 TOP OF BANK

5335.98 TOP OF BANK

5335.92 TOP OF BANK

5335,70 TOP OF BANK

5334.83 BREAKLINE

SURVEYOR'S CERTIFICATION:

AUGUST 27, 2021

E BEST OF MY BELIEF AND KNOWLEDGE.

CHRISTOPHER A. MEDINA, NMPLS NO. 15702

TOP OF BANK

5335.07 BREAKLINE

+ 5335.85

5334,45 BREAKLINE

5334.56 BREAKLINE

CHRISTOPHER A. MEDINA, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15702, DO HEREBY

THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND IS CORRECT AND TRUE TO

CERTIFY THAT THIS AS-BUILT SURVEY AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH

IS BASED WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION; THIS SURVEY MEETS

5335.98

5334.25 BREAKLINE

5331.63 BREAKLINE

5329,48 BREAKLINE

5328.10 BREAKLINE

+ 5335.89 GROUND

+ 5336.0 GROUND

5335.59 TOP OF BANK

INFORMATION SHOWN TAKEN FROM RECORD PLAT

ABOVE GROUND STAMPED, "S21, S22, S28, S27.

T11, R2E, 1911." ELEVATION = 5,330.15 FEET

COMBINED GROUND TO GRID FACTOR IS

0.999671106 SCALED AROUND 0,0.

(NAVD 1988 VERTICAL DATUM).

AND SHOWN FOR ORIENTATION ONLY.

THIS IS NOT A BOUNDARY SURVEY.

2. ALL DISTANCES SHOWN ARE GROUND DISTANCES.

5. BASIS OF BEARINGS IS STATE PLANE NAD 83 NM

PROPERTY LINE WALLS AND GARDEN WALLS SHALL HAVE TURNED BLOCKS OR WEEP HOLES FOR DRAINAGE ALL OPENINGS IN THE

AS-BUILT PAD SURVEY

LOT 19 BLOCK 5, UNIT 18

VOLCANO CLIFFS SUBDIVISION

6620 SUJETO ROAD N.W

5335.47 BREAKLINE

+ 533' GROUND

BLOCK 5, UNIT NO. 18

VOLCANO CLIFFS SUBDIVISION

+ 5336.18 GROUND G

+ 5336.18 GROUND GF

5336.15

+ 5335.89 GROUND

+ 5336.00 GROUND

+ 5336.07 RDUND

| 5332.03 | BREAKLINE | 5331.90 | BREAKLINE



EASEMENT NOTES:

01/19/1971 VOL. D4, FOLIO 106

VOL. D4, FOLIO 106

BLDG. LAYOUT 5332.06 BREAKLINE

- 5331.85 BREAKLINE

5333.52 BREAKLINE

5332.91 BREAKLINE

`5335.16 TOP OF BANK

TERRA

GRAPHIC SCALE

(IN FEET)

1 inch = 30 ft.

SHEET 1 OF 1

TERRA PROJECT NO. 2020-127

P.O. BOX 2532 • CORRALES, NM 87048 • (505) 792-0513

TERRA LAND SURVEYS, LLC

5331.78 BREAKLINE

5335.71 TOP OF BANK

5335.20 TOP OF BANK

5331.60 BREAKLINE

5335.12 TOP OF BANK

(A) 7.0' P.U.E.

(B) 5'X30' ANCHOR

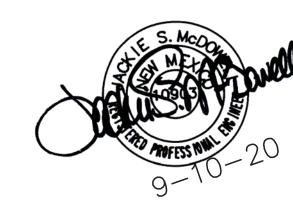
01/19/1971

EASEMENT

5332.99 BREAKLINE

VICINITY MAP ZONE ATLAS D-10

LEGEND **EXISTING** PROPOSED RETAINING WALL/WALL ∞ SPOT ELEVATION 5313.72



8-28-21 PAD CERTIFICATION

ENGINEER'S CERTIFICATION:

I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on September 3, 2020 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.

6620 SUJETO ROAD NW, ALBUQUERQUE, NM 87120

CITY OF ALBUQUERQUE, BERNALILLO COUNTY

LOT 19, BLOCK 5, UNIT 18 VOLCANO CLIFFS SUBDIVISION

NEW MEXICO

OLIVAS, JONATHAN (M. SANCHEZ) - GRADING & DRAINAGE PLAN

SEPTEMBER,2020

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

GRADING OLI0120L

9-3-20

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

Public Works Construction with updates.

in natural undisturbed soil. If the contractor plans

a registered Professional Engineer is recommended.

6. It is recommended that the Owner obtain the

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or silt enters the righ-of-ways during construction.

constitute a boundary survey.

safety and health.

2. TOPOGRAPHIC SURVEY WAS COMPILED UTILIZING SURFACE COORDINATES

7. THIS IS NOT A BOUNDARY SURVEY PROPERTY LINES SHOWN ARE FOR