

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

March 24, 2022

Phillip W. Clark, PE
Clark Consulting Engineers
19 Ryan Rd
Edgewood, NM 87015

RE: 1717 Archuleta Dr. NE
1717 Archuleta Dr. NE
Grading and Drainage Plan
Engineer's Stamp Date: 5/24/21
Hydrology File: J23D021

Dear Mr. Clark

Based upon the information provided in your submittal received 1/4/2022, the Grading & Drainage Plan is **not** approved for Building Permit. The following comments need to be addressed for approval of the above referenced project:

PO Box 1293

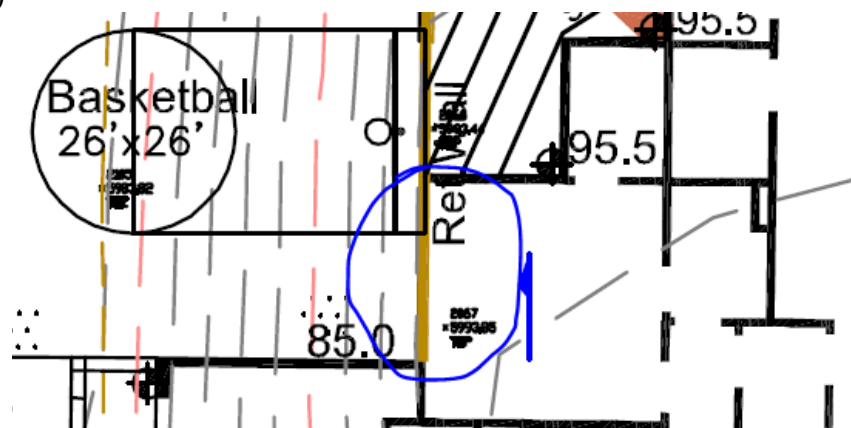
General Notes

Albuquerque

1. Can you please note if this is a stem wall as part of the foundation of the home? (below image)

NM 87103

www.cabq.gov



a.

- i. Please provide top of wall and bottom of wall elevations. Provide a detail please.
2. Please include bottom of wall elevation along the PUE. Provide a cross section/detail showing the PUE and ensure the footing is outside of that.
 3. You are calling out basins, please provide a basin map and clearly show how flow is getting to each proposed pond.
 4. Please clearly label what the required retention volume is needed and what is provided for each basin.
 5. Please include project benchmark and datum
 6. Please include the FIRM.

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7.

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 924-3695 or dggutierrez@cabq.gov

Sincerely,

David G. Gutierrez, P.E.
Senior Engineer, Hydrology
Planning Department

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 1717 Archuleta DR NE Res **Building Permit #:** BP-2022-01872 **Hydrology File #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: Lot 16, Blk 3, Rebonito

City Address: 1717 Archuleta NE

Applicant: CLARK CONSULTING ENGINEERS **Contact:** PHIL

Address: _____

Phone#: 281-2444 **Fax#:** xxxx cell / txt 264.6042 **E-mail:** CCEalbq@aol.com

Other Contact: Jayesh **Contact:** _____

Address: _____

Phone#: 362-2009 **Fax#:** _____ **E-mail:** jayesh@tnjgroup.com

TYPE OF DEVELOPMENT: _____ PLAT ☒ RESIDENCE _____ DRB SITE _____ ADMIN SITE

Check all that Apply:

DEPARTMENT:

☒ HYDROLOGY/ DRAINAGE
____ TRAFFIC/ TRANSPORTATION

TYPE OF SUBMITTAL:

____ ENGINEER/ARCHITECT CERTIFICATION
____ PAD CERTIFICATION
____ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
____ DRAINAGE REPORT
____ DRAINAGE MASTER PLAN
____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
____ ELEVATION CERTIFICATE
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ TRAFFIC IMPACT STUDY (TIS)
____ STREET LIGHT LAYOUT
____ OTHER (SPECIFY) _____
____ PRE-DESIGN MEETING?

IS THIS A RESUBMITTAL?: _____ Yes ☒ No

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

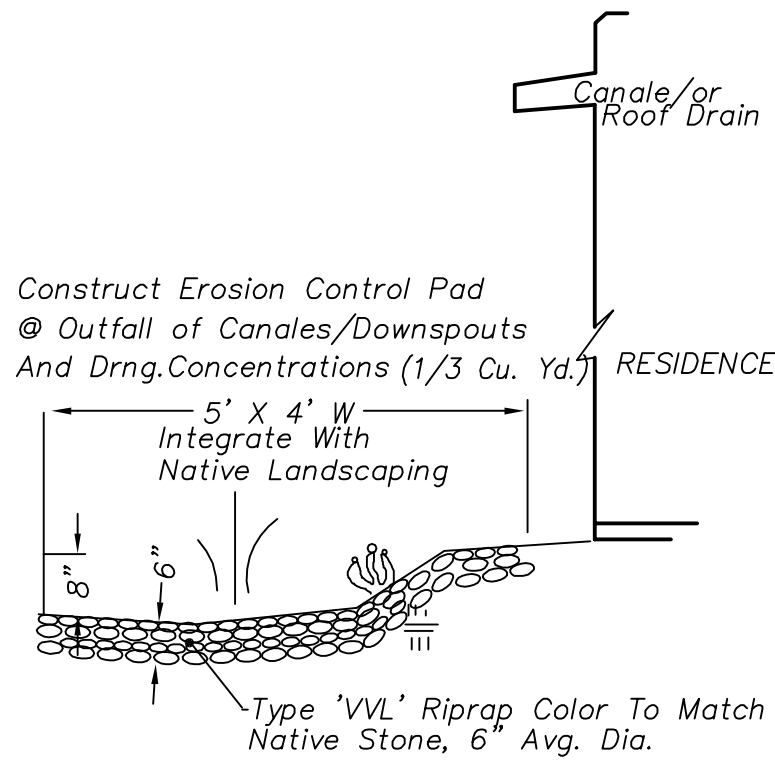
____ SIA/ RELEASE OF FINANCIAL GUARANTEE
____ FOUNDATION PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ SO-19 APPROVAL
____ PAVING PERMIT APPROVAL
____ GRADING/ PAD CERTIFICATION
____ WORK ORDER APPROVAL
____ CLOMR/LOMR
____ FLOODPLAIN DEVELOPMENT PERMIT
____ OTHER (SPECIFY) _____

DATE SUBMITTED: 3/4/22 **By:** PWC

COA STAFF:

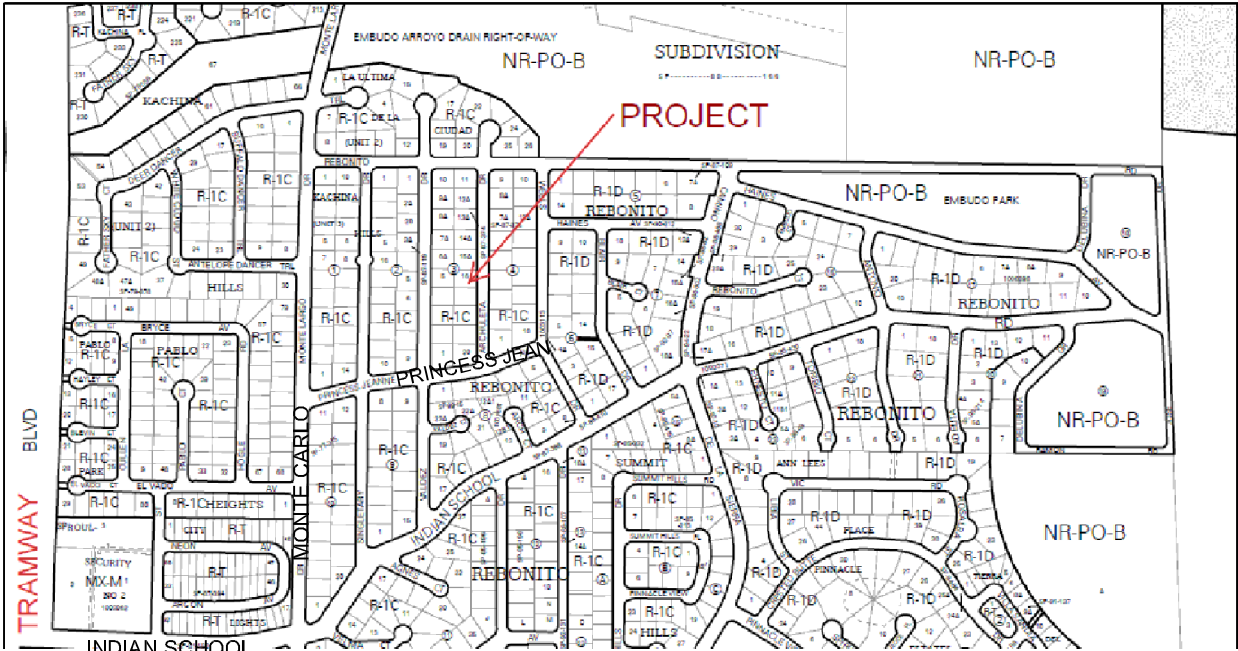
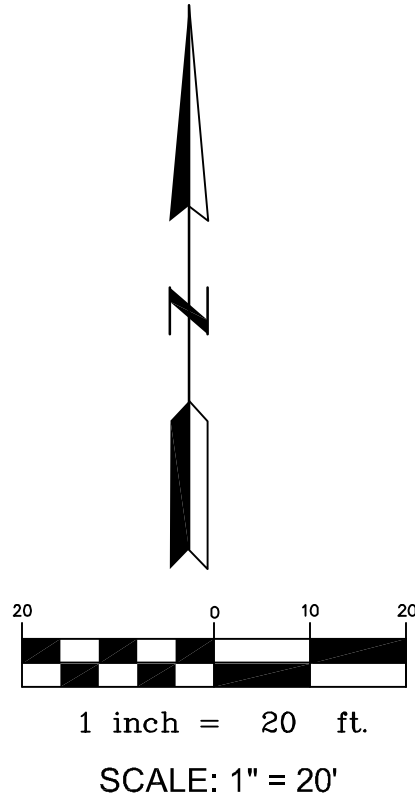
ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



EROSION CONTROL PAD

NO SCALE



VICINITY MAP

ZONE J-23

NOTES

1. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION, 2020.
2. AN EXCAVATION/CONSTRUCTION PERMIT IS REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY R.O.W. AN APPROVED COPY OF THIS PLAN MUST BE SUBMITTED AT THE TIME OF APPLICATION.
3. 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.
4. ALL LANDSCAPING AREA SHALL BE SOFT-LINED WITH NATIVE VEGETATION AND/OR GRAVEL.
5. CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAYS DURING CONSTRUCTION.
6. REVEGETATE ALL AREAS DISTURBED DUE TO CONSTRUCTION PER CITY OF ALBUQ. SPEC. 1012, NATIVE SEED MIX.
7. MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 2 HORIZONTAL TO 1 VERTICAL, 2:1. DIMENSIONS ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.

LEGEND

	EXIST. SPOT ELEVATION
	EXIST. CONTOUR
	NEW SPOT ELEVATION
	NEW CONTOUR
	NEW SWALE
	DRAINAGE DIRECTION, EXISTING
	FLOWLINE
	DOWNSPOUT
	NATURAL GROUND, EXISTING
	REBAR AND CAP, EXISTING
	NEW TYPE VVL RIPRAP (BURIED 6") (2"-8" DIA. Well Graded, River Run Cobbles)
	TOP OF RETAINING WALL



STREET VIEW - LOOKING WEST

CALCULATIONS

DESIGN CRITERIA

HYDROLOGIC METHODS PER CHAPTER 6, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM) DATED 2020 FOR CITY OF ALBUQUERQUE.
DISCHARGE RATE: $Q = Q_{PEAK} \times AREA$, "Peak Discharge Rates For Small Watersheds"
VOLUMETRIC DISCHARGE: $VOLUME = E_{Weighted} \times AREA$
 $P100-6Hr = 2.64 \text{ in.}$, Zone 4, $P100-24Hr = 3.6 \text{ in.}$, $P100-10 \text{ Day} = 4.8 \text{ in.}$, $TC = 12 \text{ Minutes}$
DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR [] = 10 YEAR VALUES

PRE-DEVELOPED CONDITIONS

LOT AREA = 0.21 ACRES, WHERE EXCESS PRECIP. 'A' = 0.76 in. [0.25]
PEAK DISCHARGE, $Q100 = 0.44 \text{ CFS}$ [XX], WHERE UNIT PEAK DISCHARGE = 2.09 CFS/AC. [0.7]
THEREFORE: $VOLUME 100 = 579 \text{ CF}$ [XXX]

DEVELOPED CONDITIONS

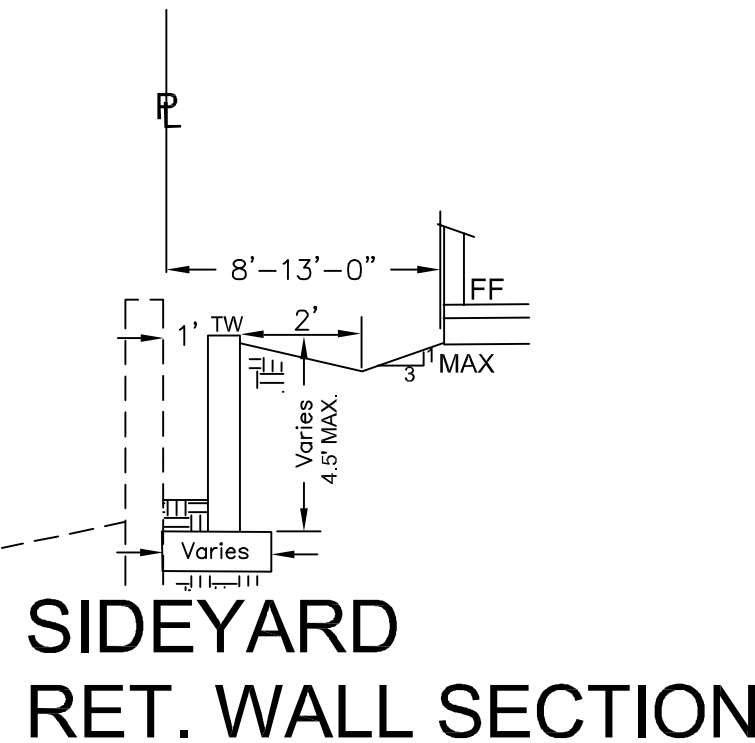
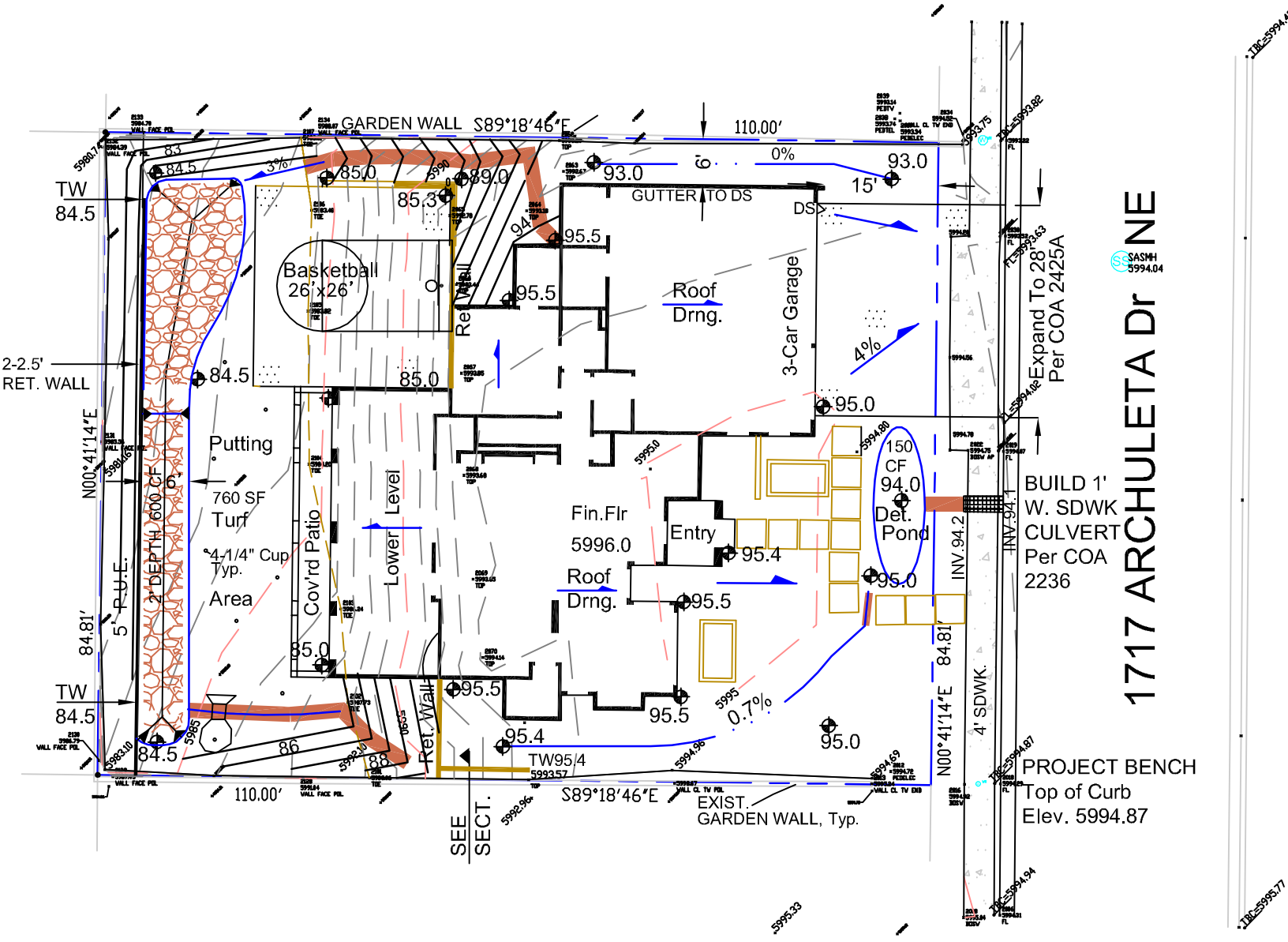
DETERMINE LAND TREATMENTS, PEAK DISCHARGE AND VOLUMETRIC DISCHARGE FOR STUDY AREA

	AREA	LAND TREATM	Q_{Peak}	E
UNDEVELOPED	N/A	A	2.09[0.70]	0.76[0.25]
LANDSCAPING; 10-20% SL	0.07 Ac.(33%)	B	2.73[1.26]	0.95[0.41]
GRAVEL & COMP. SOIL; 20%>	0.03 Ac.(14%)	C	3.41[1.89]	1.20[0.59]
ROOF - PAVEMENT	0.11 Ac.(52%)	D	4.78[3.04]	3.34[2.15]
	0.21 Ac.			

THEREFORE: $E_{Weighted} = 2.19 \text{ in.}$ [xx] &
 $Q100 = 0.82 \text{ CFS}$ VOLUME 100 = 1669 CF

BASIN A = 3700 SF X 2'1/2" = 600 CF ~ WEST RETENTION POND, REAR LOWER LEVEL
BASIN B = 3100 SF X 2'1/2" = 500 CF~ (IF RETENTION) USE DETENTION POND (EAST) ==> FREE DISCHARGE
BASIN C = 2000 SF X 2'1/2" = 333 CF, Q100~0.2 CFS, FREE DISCHARGE

EMERG. OVERFLOW: CHECK WEIR EQ. $Q = CLH^{3/2}$ WHERE: L=1', C=2.7, H= 8-1/2" (0.7') ==> $Q = 1.6 \text{ CFS}$...OK
>> 2X Q Basin B



SIDEYARD RET. WALL SECTION



PROJECT DATA

LEGAL DESCRIPTION

LOT 16, BLOCK 3, REBONITO SUBDIVISION
ALBUQUERQUE, BERNALILLO COUNTY, NM

PROJECT BENCHMARK

PROJECTION OF SOUTHEAST PROPERTY CORNER, EXIST.TOP OF CURB
SEE PLAN, ELEVATION =5994.87 AS REFERENCED FROM ACS
MONUMENTATION SYSTEM & AGIS. 1-3/4" ALUM. CAP LOCATED AT THE
REBONITO/MONTE CARLO INTERS., "15 J23", Elev. 5933.78 (NAVD88)
TOPO DESIGN SURVEY BY ROBERT FIERRO.

EXPRESSLY PREPARED FOR JAYESH & AKASH

		Cell/Txt: (505) 264-6042	
Telle: (505) 281-2444		Edgewood, New Mexico 87015	
DATE	REVISION	LOT 16, BLOCK 3, REBONITO SUBDIVISION ALBUQUERQUE, BERNALILLO COUNTY, NM 1717 ARCHULETA DR. NE Grading & Drainage Plan	
DESIGNED BY: PWC	DRAWN BY: CCE	PolbianosInvest	1 OF 1
CHECKED BY: PWC	DATE: 4/23/21	FILE # G/D	

I, PHILIP W. CLARK, A PROFESSIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT I HAVE VISITED THE SITE SHOWN HEREON, AND THAT THE CONTOURS SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND DO FURTHER CERTIFY THAT NO SIGNIFICANT EARTHWORK NOR MAJOR DISTURBANCE OF THE EXISTING GROUND HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.