CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director

Mayor Timothy M. Keller

March 4, 2024

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

RE: 1998 Cherokee Rd NW
Permanent C.O. – Accepted
Engineer's Certification Date: 02/23/24
Engineer's Stamp Date: 04/26/23
Hydrology File: F13D034

Dear Mr.Clark:

Based on the Certification received 02/28/2024 and site visit on 03/01/2024, this letter serves as a "green tag" from Hydrology Section for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

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

Sincerely,

Renée C. Brissette

Renée C. Brissette, P.E. CFM
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

Project Title: 1998 Cherokee Rd NW Resid **Building Permit #**_____ **Hydrology File #** F13/ D034

DRB#_____ **EPC#**_____

Legal Description: LOT 2A1, LAND OF BETTY SKOGEN City Address OR Parcel 1998 Cherokee NW

Applicant/Agent: Clark Consulting Engineers **Contact:** Phil

Address: 19 Ryan Rd, Edgewood, NM 87015 **Phone:** (505) 281-2444

Email: CCEalbq@aol.com

Applicant/Owner: _____ **Contact:** _____

Address: _____ **Phone:** _____

Email: _____

TYPE OF DEVELOPMENT: ___PLAT (#of lots) X RESIDENCE __DRB SITE ___ ADMIN SITE: ____

RE-SUBMITTAL: _____YES __x__ NO

SECTION : _____TRANSPORTATION ___x_ HYDROLOGY/DRAINAGE

Check all that apply:

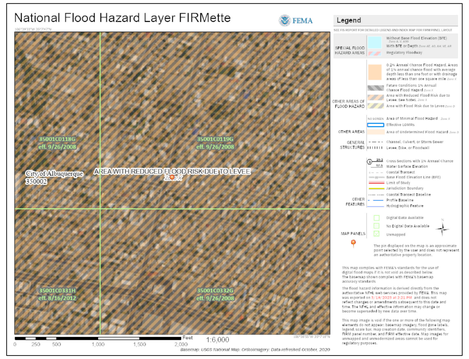
TYPE OF SUBMITTAL:

X ___ENGINEER/~~ARCHITECT~~ CERTIFICATION
___PAD CERTIFICATION
___CONCEPTUAL G&D PLAN
___GRADING PLAN
___DRAINAGE REPORT
___DRAINAGE MASTER PLAN
___FLOOD PLAN DEVELOPMENT PERMIT APP.
___ELEVATION CERTIFICATE
___CLOMR/LOMR
___TRAFFIC CIRCULATION LAYOUT (TCL) ADMINISTRATIVE
___TRAFFIC CIRCULATION LAYOUT FOR DRB APPROVAL
___TRAFFIC IMPACT STUDY (TIS)
___STREET LIGHT LAYOUT
___OTHER (SPECIFY)
___PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

___BUILDING PERMIT APPROVAL
X ___CERTIFICATE OF OCCUPANCY
___CONCEPTUAL TCL DRB APPROVAL
___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
___FLOOD PLAN DEVELOPMENT PERMIT
___OTHER (SPECIFY)_____

DATE SUBMITTED: 2/23/24



PROJECT IS LOCATED IN ZONE X, NOT WITHIN A SPECIAL FLOOD HAZARD AREA

FIRM MAP *REF: PANEL # C0118 G*

DATED 9/26/08

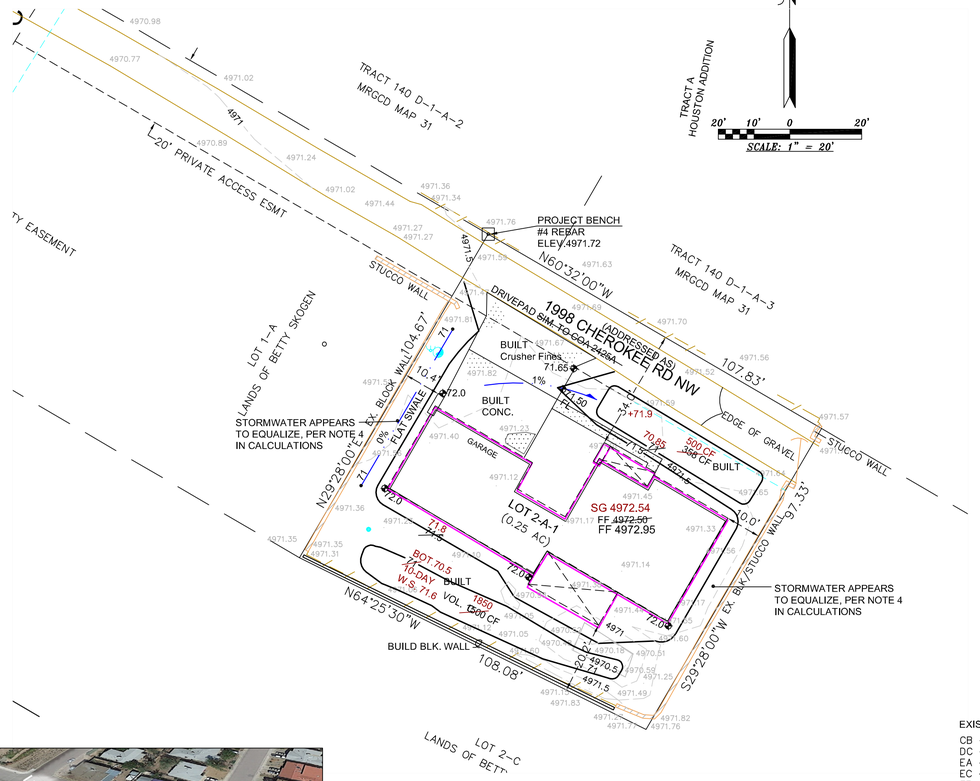
GRADING & DRAINAGE PLAN

THE SINGLE LOT R–A PROJECT IS LOCATED IN THE GRIEGOS SECTION OF ALBUQUERQUE'S NORTH VALLEY APPROXIMATELY 3 MILES NORTH OF THE DOWNTOWN CORE OF ALBUQUERQUE, NM. THE GRADING & DRAINAGE SCHEME HEREON IS IN COMPLIANCE WITH THE CITY OF ALBUQ. DEVELOPMENT PROCESS MANUAL (DPM), CH. 6, ORIGINALLY SIGNED 6/8/20 – DRAINAGE, FLOOD AND EROSION CONTROL. THE PLAN IS REQUIRED IN ORDER TO FACILITATE THE OWNER'S REQUEST FOR BUILDING PERMIT. THE PLAN SHOWS:

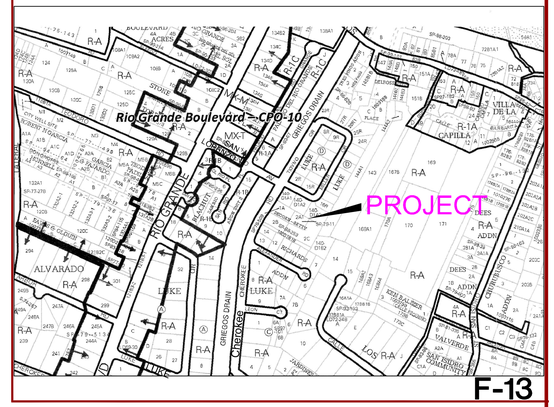
1. EXISTING CONTOURS, AND SPOT ELEVATIONS AND EXISTING DRAINAGE PATTERNS AND EXISTING IMPROVEMENTS: INCLUDING 1 RESIDENCE AND EXISTING FLATWORK .
2. PROPOSED IMPROVEMENTS: SINGLE–FAMILY RESIDENCE, NEW CONCRETE PAD / GRADE ELEVATIONS, BERMS OR BARRIERS AND SWALES.
3. CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.
4. QUANTIFICATION AND ACCEPTANCE OF UPSTREAM OFF–SITE FLOWS WHICH CONTRIBUTE TO THE DEVELOPED FLOWS GEN–ERATED BY THE IMPROVEMENTS.

THE PURPOSE OF THE PLAN IS TO ESTABLISH CRITERIA FOR CON–TROLLING STORM RUNOFF AND EROSION, AND ESSENTIALLY ALLOWING HISTORIC FLOWS TO CONTINUE TO DRAIN THROUGH THE PROPERTY. PRESENTLY, THE SITE IS BOUNDED ON THE SOUTH, EAST AND THE WEST BY RESIDENCES. THE ACCESS ROAD, A PRIVATE STREET IS PRIVATELY MAINTAINED AND CONSISTS OF GRAVEL SURFACING. THE SITE CURRENTLY HAS SLOPES AT 0 TO 1% BUT IS GENERALLY FLAT.

HISTORICAL SITE RUNOFF OUTFALL LOCATIONS WILL REMAIN UNCHANGED. SINCE CHEROKEE RD AND PRIVATE WAY ARE IMPROVED ONLY MINIMAL GRADING IS PROPOSED WITHIN THE EASEMENT. FREE DISCHARGE OF DEVELOPED FLOW IS ACCEPTABLE, HOWEVER THE SITE IS FLAT THEREFORE A FLAT NW VALLEY GRADING SCHEME IS EMPLOYED. THIS PLAN ROUTES DEVELOPED RUNOFF THROUGH/TO THE PROPOSED LANDSCAPE AREAS.
THE SITE IS NOT IMPACTED ADVERSELY BY ANY OFF–SITE DRAINAGE FLOWS.



LOOKING NORTHWEST



VICINITY MAP

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 EDITION.
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. 1011, NATIVE SEED MIX.
7. MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 2 HORIZONTAL TO 1 VERTICAL, 2:1, <3' TALL. ALL DIMENSIONS TO FACE OF CURB, UNLESS NOTED OTHERWISE.

LEGEND

AS-BUILT RED SPOT ELEV./CALL-OUT

EXIST. SPOT ELEVATION	X4924.0
EXIST. CONTOUR	10
NEW SPOT ELEVATION (FINISH)	◆ 24.0
NEW CONTOUR	12
NEW SWALE	
DRAINAGE DIRECTION, EXISTING	
NEW CONCRETE CURB (0.5' HEIGHT)	
NEW P.C.C., CONCRETE	
TOP OF CURB, EXISTING	TC
TOP OF ASPHALT	TA
FLOWLINE	FL
EXISTING POWER POLE	o P.P.

EXISTING
CB – CONCRETE CURB
DC – DRIVEWAY CUT
EA – EDGE OF ASPHALT
EC – EDGE OF CONCRETE
FF – FINISH FLOOR
FL – FLOW LINE
G – GROUND
SASMH – SAS MAN HOLE
TA – TOP OF ASPHALT
TC – TOP OF CONCRETE
WM – WATER METER

AS-CONSTRUCTED

FOR CERTIFICATE OF OCCUPANCY, FEB.'24

I, PHILIP W. CLARK, PROFESSIONAL ENGINEER, REGISTERED IN ACCORDANCE WITH THE LAWS IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE GRADING AND DRAINAGE IMPROVEMENTS INDICATED ON THE PLAN WERE CONSTRUCTED AS SHOWN, AND COMPLIES WITH THE DESIGN INTENT OF THE APPROVED PLAN.

PHILIP W. CLARK, P.E.#10265 6/8/23

PHILIP W. CLARK NEW MEXICO 10265 REGISTERED PROFESSIONAL ENGINEER

REV.2/23/24

PROJECT DATA

LEGAL DESCRIPTION.

LOT 2-A-1, LAND OF BETTY SKOGEN
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

PROJECT BENCHMARK

TOP OF 1/2-INCH REBAR AT THE NW CORNER
MSL ELEVATION = 4971.72, AS TIED FROM COA 3-1/4" DIAMETER ALUM DISK, "23_G14, NAVD 88, 4969.30.

TOPOGRAPHIC DESIGN SURVEY

COMPILED BY CCE PROVIDED BY 2018 AGIS ORTHOPHOTOGRAPHY, AND COMMUNITY SCIENCES TOPO SURVEY, DATED 4/17/23.

" Valley Drainage Criteria"

PER SECTION 6-5 (A), OF THE DPM - SINGLE-LOT DEVELOPMENT

CALCULATIONS

DESIGN CRITERIA

HYDROLOGIC METHODS PER CHAPTER 6, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM) 2020 EDITION FOR CITY OF ALBUQUERQUE.
DISCHARGE RATE: Q=QPEAK x AREA.."Peak Discharge Rates For Small Watersheds"
VOLUMETRIC DISCHARGE: VOLUME = EWeighted x AREA
P100–6 Hr= 2.29 In., Zone 2, P100–24 Hr.=2.59 In., P100–10 Day=3.6 In. TC = 12 Min.
DESIGN STORM: 100–YEAR/6–HOUR, 10–YEAR/6–HOUR [ ] = 10 YEAR VALUES

EXISTING CONDITIONS

TOTAL AREA = 0.25 ACRES, WHERE EXCESS PRECIP. 'W' =1.01 In.
PEAK DISCHARGE, Q100 = 0.75 CFS, WHERE UNIT PEAK DISCHARGE = 3.0 CFS/AC.
THEREFORE: VOLUME 100 = 916 CF

DEVELOPED CONDITIONS

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

	AREA	LAND TREATM'T	Q Peak	E
UNDEVELOPED	0.00 Ac.(0%)	A	1.71[0.41]	0.62[0.15]
LANDSCAPING, Native, <10%	0.08 Ac.(33%)	B	2.36[0.95]	0.80[0.30]
GRAVEL & COMPACTED SOIL	0.08 Ac.(33%)	C	3.05[1.59]	1.03[0.48]
ROOF – PAVEMENT	0.09 Ac.(34%)	D	4.34[2.71]	2.33[1.51]
	0.25 Ac.			

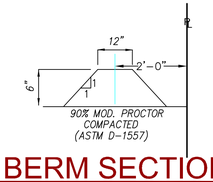
THEREFORE: E Weighted = 1.40 In. & VOLUME 100 = 1271 CF
Q100 =0.82 CFS
✓ V 10DAYS = V360 + AD * (P10DAYS - P360) / 12 in/ft
= 1271 + 0.085(1.31)/12 x 43560 = 1675 CF

PART 6-5(A) SINGLE-LOT RESIDENTIAL DEVELOPMENT AND ADDITIONS

FOR LOTS LESS THAN 1 ACRE, WATER HARVESTING ON THE LOT IS REQUIRED. THE WATER HARVESTING VOLUME GOAL IS TO CAPTURE ½ INCH OF RUNOFF FROM IMPERVIOUS AREAS ON THE SITE. THEREFORE: 3726 SF X 0.5/12 = 155 CF

1. ROOF FLOWS SHOULD BE DIRECTED TO THE WATER HARVESTING AREA(s).
2. RUNOFF SHOULD NOT ADVERSELY IMPACT ADJACENT PROPERTIES.
3. THE FINISHED PAD ELEVATION IS RECOMMENDED TO BE A MINIMUM OF 12 INCHES ABOVE THE EDGE OF PAVEMENT OR ROADWAY.
4. STORMWATER MUST BE ALLOWED TO EQUALIZE TO SAME LEVEL BETWEEN FRONT AND BACK YARDS (NO DAMS, BARRIERS, ETC. AND FREE FROM DEBRIS)

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.



BERM SECTION

NTS OPTION, IN-LIEU OF 5'6" TALL BLK WALL

4/26/23 PHILIP W. CLARK NEW MEXICO 10265 REGISTERED PROFESSIONAL ENGINEER

Clark Consulting Engineers
Edgewood, New Mexico 87015
Tele: (505) 281–2444 CELL: (505) 264–6042

DATE	REVISION

LOT 2-A-1, LAND OF BETTY SKOGEN
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
1998 CHEROKEE RD, NW
GRADING & DRAINAGE PLAN

DESIGNED BY: PWC	DRAWN BY: CCE	JOB #: 1998 Cherokee	GD–1
CHECKED BY: PWC	DATE: APR. '23	FILE #: G/D	