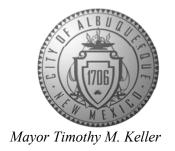
CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



September 14, 2023

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

RE: 4002 12th St NW

Grading and Drainage Plan Engineer's Stamp Date: 9/5/2023 Hydrology File: G14D102

Dear Mr. Clark:

Based upon the information provided in your submittal received 9/7/2023, the Grading & Drainage Plan is approved for Grading Permit and Building Permit approval. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PO Box 1293

PRIOR TO CERTIFICATE OF OCCUPANCY:

Albuquerque

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.

NM 87103

2. Please provide the executed paper Drainage Covenant (latest revision) printed on one-side only with Exhibit A and a check for \$25 made out to "Bernalillo County" for the stormwater quality ponds per Article 6-15(C) of the DPM to Hydrology for review. Once the review is done, Hydrology will send back an email stating our approval/comments.

www.cabq.gov

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, 505-924-3420) 14 days prior to any earth disturbance.

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

Sincerely,

Tiequan Chen, P.E.

Principal Engineer, Hydrology

Planning Department, Development Review Services



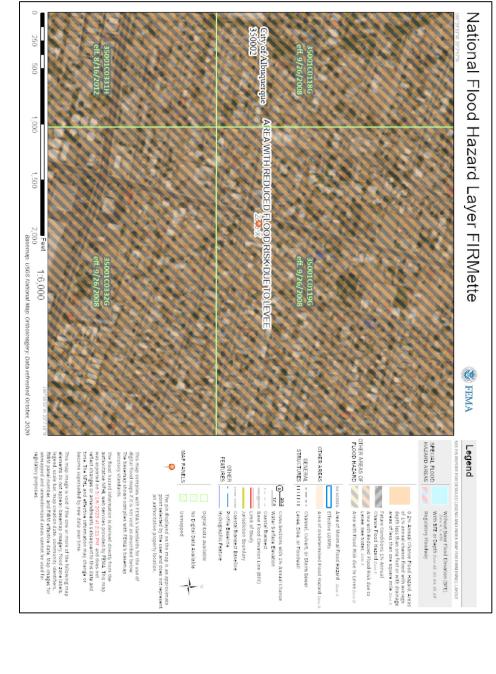
City of Albuquerque

Planning Department

Development & Building Services Division

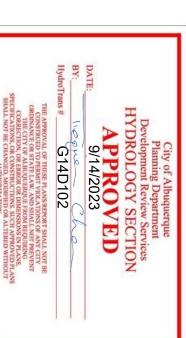
DRAINAGE AND TRANSPORTATION INFORMATION SHEET

Project Title: 4002 12th St NW Res. Build	ing Permit #Hydrology File #_G-14
DRB#	EPC#
Legal Description: Lot 1A-1 Plat of Houston Add	n City Address OR Parcel 4002 12th St NW
Applicant/Agent: Clark Consulting Engineer	S Contact: Phil
Address: 19 Ryan Rd, Edgewood, NM 8	7015 Phone: (505) 281-2444
Email: CCEalbq@aol.com	
Applicant/Owner:	Contact:
Address:	
Email:	
TYPE OF DEVELOPMENT:PLAT (#of lots) X	RESIDENCE DRB SITE ADMIN SITE:
RE-SUBMITTAL: YES X NO	
SECTION: TRANSPORTATION Check all that apply:	X HYDROLOGY/DRAINAGE
TYPE OF SUBMITTAL:	YPE OF APPROVAL/ACCEPTANCE SOUGHT:
ENGINEER/ARCHITECT CERTIFICATION	X BUILDING PERMIT APPROVAL
PAD CERTIFICATION	CERTIFICATE OF OCCUPANCY
CONCEPTUAL G&D PLAN	CONCEPTUAL TCL DRB APPROVAL
X_GRADING PLAN	PRELIMINARY PLAT APPROVAL
DRAINAGE REPORT	SITE PLAN FOR SUB'D APPROVAL
DRAINAGE MASTER PLAN	SITE PLAN FOR BLDG PERMIT APPROVAL
FLOOD PLAN DEVELOPMENT PERMIT APP.	FINAL PLAT APPROVAL
ELEVATION CERTIFICATE	SIA/RELEASE OF FINANCIAL GUARANTEE
CLOMR/LOMR	FOUNDATION PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL)	_X_GRADING PERMIT APPROVAL
ADMINISTRATIVE	SO-19 APPROVAL
TRAFFIC CIRCULATION LAYOUT FOR DRB	PAVING PERMIT APPROVAL
APPROVAL	GRADING PAD CERTIFICATION
TRAFFIC IMPACT STUDY (TIS)	WORK ORDER APPROVAL
STREET LIGHT LAYOUT	CLOMR/LOMR
OTHER (SPECIFY)	FLOOD PLAN DEVELOPMENT PERMIT
PRE-DESIGN MEETING?	OTHER (SPECIFY)
DATE SUBMITTED: 7/17/23	

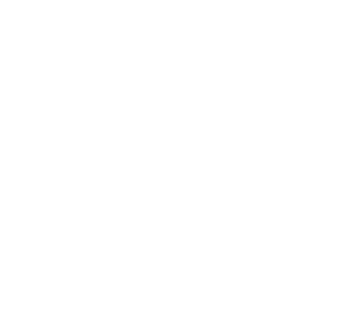


PROJECT IS LOCATED IN ZONE X, NOT WITHIN A SPECIAL FLOOD HAZARD AREA

FIRM MAP REF: * C0119 9









GRADING DRAINAGE P

THE SINGLE FAMILY DETACHED RESIDENTIAL PROJECT IS LOCATED IN THE NORTH VALLEY AREA OF ALBUQUERQUE 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, 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:

PS 12651 C EL 4970.22

EXIST. RES

TRACT 1A-1

4002 12TH ST NW

EXPAND EXISTING
DRIVE CUT PER CO

#4 REBAR PS 12651 CAP FS 12651 CAP 69.46 PD P+60

TRACT 2A-1 HOUSTON ADDITION (VACANT)

N78°32'41"W

BLULL WALL

PENCE OR BERM ALONG NORTH PI

70.0

FLAT SWALE

FIN. FLR.
ELEV. 4970.66
+1'-0" ABOVE HIGHEST
FLOWLINE®OPSTREET
NEW RESIDENCE

N11°26'21"E

#4 REBAR PS 12651 CAP EL 4970.02

EXISTING CONTOURS, AND SPOT ELEVATIONS AND EXISTING DRAINAGE PATTERNS AND EXISTING IMPROVEMENTS: INCLUDING 1- EXISTING STRUCTURE AND EXISTING FLATWORK.
 PROPOSED IMPROVEMENTS: 3500 SF RESIDENT FOOTPRINT, NEW DRIVEWAY / GRADE ELEVATIONS, BERMS OR BARRIERS ANI SWALES.
 CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.
 QUANTIFICATION AND ACCEPTANCE OF UPSTREAM OFF—SITE FLOWS WHICH CONTRIBUTE TO THE DEVELOPED FLOWS GENERATED BY THE IMPROVEMENTS.

HEADINGLY AVE

\$\times_{\time

7069.84 PROJECT BENCH

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

EXIGN. STD CURBIGUTTER
-0.5%

133.49"

P.U.E.

Wood Fnc^x 79.10'

TRACT A HOUSTON ADDITION

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 NORTH AND
THE EAST BY RESIDENCES. 12TH STREET NW, A LOCAL STREET PER THE LRMSP (LONG RANGE MAJOR STREET PLAN)
IS PAVED WITH CURB, GUTTER AND 4' SIDEWALK, AND IS MAINTAINED
BY THE CITY OF ALBUQUERQUE. THE SITE CURRENTLY HAS SLOPES
AT 0 TO 1% BUT IS GENERALLY FLAT.

HISTORICAL SITE RUNOFF OUTFALL LOCATIONS WILL REMAIN UNCHANGED. SINCE 12TH ST. IS IMPROVED NO GRADING IS PROPOSED WITHIN THE CITY R.O.W. 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.

SITE IS NOT IMPACTED ADVERSELY BY ANY OFF-SITE DRAINAGE FLOWS.

" Valley Drainage Criteria"
PER SECTION 6-5 (A), OF THE DPM - SINGLE-LOT DEVELOPME DEVELOPMENT

CALCULATIONS

IYDROLOGIC METHODS PER CHAPTER 6, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM) 020 EDITION FOR CITY OF ALBUQUERQUE. 1/SCHARGE RATE: $Q=QPEAK \times AREA$... "Peak Discharge Rates For Small Watersheds" 1/OLUMETRIC DISCHARGE: VOLUME = EWeighted $\times AREA$ 1/OO-6 Hr = 2.29 In., Zone 2, P100-10 Day=3.6 In. TC = 12 Min. PAR-1/OPAR. 1/OO-YEAR/6-HOUR, 10-YEAR/6-HOUR [] = 10 YEAR VALUES DEVI

13% D, 87% C, TOTAL AREA = 0.26 ACRES, WHERE EXCESS PRECIP. 'W' =1.2 In. PEAK DISCHARGE, Q100 = 0.83 CFS, WHERE UNIT PEAK DISCHARGE = 3.2 CFS/AC. THEREFORE: VOLUME 100 = 1133 CF EXISTING CONDITIONS

UNDEVELOPED
LANDSCAPING, Native, <:
GRAVEL & COMPACTED :
ROOF — PAVEMENT DETERMINE LAND TREATMENTS, PEAK DETERMINE LAND FOR STUDY AREA DISCHARGE AND VOLUMETRIC DISCHARGE 0002

VOLUME 1420 CF

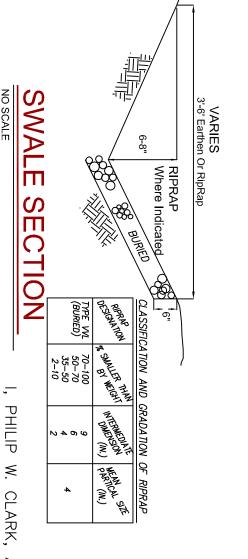
FOR LOTS LESS THAN 1 ACRE, WATER HARVESTING ON THE LOT IS REQUIRED. THE WATER HARVESTING VOLUME GOAL IS TO CAPTURE ½ INCH OF RUNOFF FROM IMPERVIOUS AREAS ON THE SITE. THEREFORE: 5000 SF X 0.26/12 = 208 CF

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

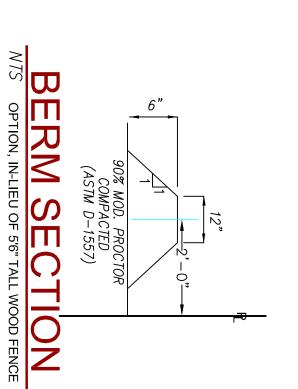
ROOF FLOWS SHOULD BE DIRECTED TO THE WATER

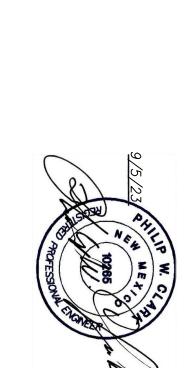
HARVESTING AREA(S).
2. RUNOFF SHOULD NOT ADVERSELY IMPACT
2. RUNOFF SHOULD NOT ADVERSELY IMPACT
3. THE FINISHED PAD ELEVATION IS RECOMMENDED TO
BE A MINIMUM OF 12 INCHES
ABOVE THE EDGE OF PAVEMENT OR ROADWAY.

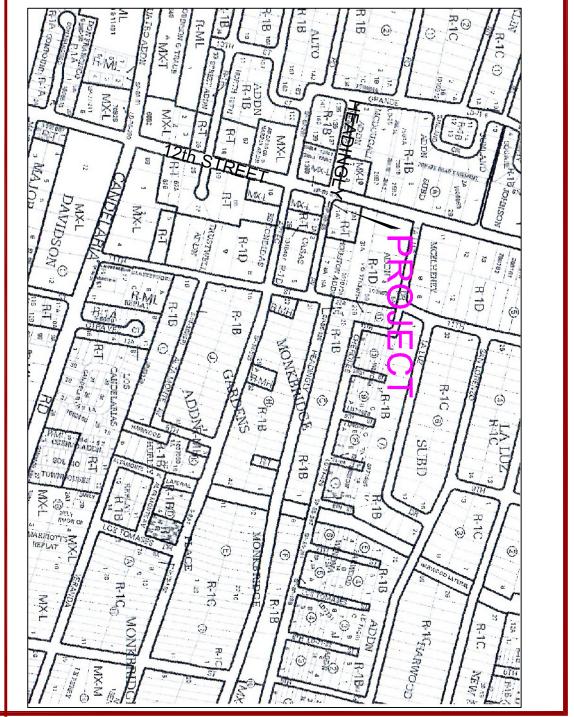
TOTAL ESTIMATED HARVEST AREA / VOLUME .26 AC. = 11326 SF - 6000 SF (IMPROVEMENTS ABOVE 69.0) = 5326 SF ; THEN (5326+0)/2 X 0.5' DEPTH = 1332 C.F



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.







VICINITY MAP

G-14

NOTES

ALL WORK MITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION, 2020 EDITION.

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.

 $\dot{\mathcal{N}}$

- 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.
- CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAYS DURING CONSTRUCTION. ALL LANDSCAPING AREA SHALL BE SOFT—LINED WITH NATIVE VEGETATION AND/OR GRAVEL.
- REVEGETATE ALL AREAS DISTURBED DUE TO CONSTRUCTION PER CITY OF ALBUQ. SPEC. 1011, NATIVE SEED MIX. MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 2 HORIZONTAL TO 1 VERTICAL, 2:1, <3' TALL. ALL DIMENSIONS FACE OF CURB, UNLESS NOTED OTHERWISE.

LEGEND

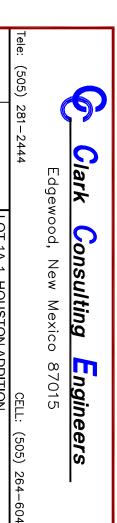
FLOWLINE TOP OF CURB, EXISTING TOP OF ASPHALT EXISTING SHRUB VEGETATION EXISTING POWER POLE NEW P.C.C., CONCRETE NEW CONCRETE CURB (0.5, HEIGHT) NEW SPOT ELEVATION (FINISH)
NEW CONTOUR NEW SWALE --DRAINAGE DIRECTION, EXISTING CONTOUR SP CURB/FACE OF CURB OT ELEVATION ♦ 24.012 0 P.P. 10

PROJEC DATA

LOT 1A-1, HOUSTON ADDITION ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO DESCRIPTION.

PROJECT BENCHMARK TOP OF CURB AT THE SE CORNER LOCATED IN HEADINGLY AVE. MSLELEVATION = 4969.84 (FIELD CONFIRM), AS TIED FROM COA 3-1/4" DIAMETER ALUM DISK, "23_G14, NAVD 88, 4969.30.

TOPOGRAPHIC DESIGN SURVEY COMPILED BY CCE PROVIDED BY ALPHA PRO SURVEYING, Dated 8/24/23 ORTHOPHOTOGRAPHY, AND FIELD CONFIRMED.



GRADING &		
4002 1217 31. NVV		
	ADDR. TC COM'TS	8 30 23
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO		
LOT 1A-1, HOUSTON ADDITION	REVISION	DATE
CELL: (505) 264-6042	281-2444	Tele: (505) 281-2444
Edgewood, New Mexico 87015	Edge	
Clark Consulting Engineers	Clark	
	,)

GNED BY: PWC DRAWN BY: CCE JOB #: Yannoni_Palleras

GD-1

DRAINAGE PLAN