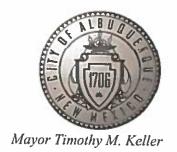
CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



June 3, 2024

Philip Clark, P.E. Clark Consulting Engineers 19 Ryan Road Edgewood, NM 87015

RE: 527 Mesilla Street NE

Grading and Drainage Plan Engineer's Stamp Date: 05/14/24

Hydrology File: L19D079

Dear Mr. Clark:

Based upon the information provided in your submittal received 05/16/2024, the Grading and Drainage Plan is approved for Building Permit and Grading Permit. Since this site is relatively flat and grades to the road, a pad certification is not needed for this project. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Albuquerque

PRIOR TO CERTIFICATE OF OCCUPANCY:

NM 87103

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

www.cabq.gov

If you have any questions, please contact me at 924-3914 or amontoya@cabq.gov.

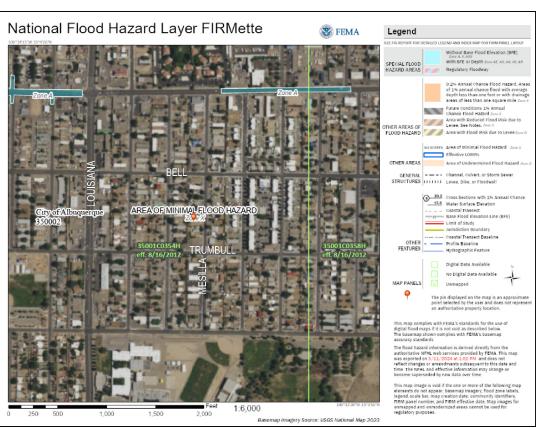
Sincerely,

Anthony Montoya, Jr., P.E.

and Mas

Senior Engineer, Hydrology, Development Review Services

Planning Department



PROJECT LIES IN FEMA ZONE 'X'

FIRM MAP REF: PANEL # CO354 H



APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT

CALCULATIONS

DESIGN CRITERIA

HYDROLOGIC METHODS, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM) JUNE 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 = 2.43 Inches, Zone 3 Time of Concentration, TC = 12 Minutes DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR [] = 10 YEAR VALUES

EXISTING CONDITIONS

LOT AREA = 0.15 ACRES, WHERE EXCESS PRECIP. 'C' =1.09 In. [0.52] PEAK DISCHARGE, Q100 = 0.48 CFS [0.25], WHERE UNIT PEAK DISCHARGE 'C' = 3.17 CFS/AC. [1.69] THEREFORE: VOLUME 100 = 594 CF

DEVELOPED CONDITIONS (ALLOWABLE)

DETERMINE LAND TREATMENTS, PEAK DISCHARGE AND VOLUMETRIC DISCHARGE FOR STUDY AREA (USE 20% FOR TREATMENT B & C Each, 43% FOR A, AND 17% FOR D)

<u>AREA LAND TREATM'T</u> 1.84[0.51] 0.67[0.18] UNDEVELOPED 2.49[1.07] 0.86[0.34] 0.05 Ac.(35%) LANDSCAPING GRAVEL & COMPACTED SOIL 1.09[0.52] 3.17[1.69] 0.05 Ac.(33%) 2.58[1.64] ROOF - PAVEMENT <u>0.048Ac.</u>(32%) D 4.49[2.81] 0.15 Ac.

THEREFORE: $E_{Weighted} = 1.48 \text{ ln.}$ & *VOLUME 100 = 806 CF* Q100 = 0.50 CFS

> CHECK FIRST FLUSH, Storm Water Quality Pond for Redevelopment 2090 SF (NEW LT 'D') X 0.26 INCHES/12 = 45 CF THEREFORE: THE 45 CF CAN BE PROVIDED WITHIN THE LIMITED DEPRESSED LS OR PROVIDE \$8/CF X 45 = \$360 CASH-IN-LIEU

GRADING & DRAINAGE PLAN

LOT 18, BLK. 12

EMIL MANN ADDN.

135.00'

LOT 16, BLK. 12

EMIL MANN ADDN.

THE RESIDENTIAL PROJECT IS LOCATED IN THE EMIL MANN ADDITION OF ALBUQUERQUE APPROXIMATELY 5 MILES EAST OF THE DOWNTOWN CORE OF ALBUQUERQUE, NM. THE GRADING & DRAINAGE SCHEME HEREON IS IN COMPLIANCE WITH THE BERN-ALILLO COUNTY FLOOD HAZARD ORDINANCE, 2009, AND THE CITY STORM DRAINAGE ORDINANCE. 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: EXISTING DRIVEPAD, INCLDG. FLATWORK.
- 2. PROPOSED IMPROVEMENTS: APPROX. 1700 S.F. RESIDENCE, NEW
- DRIVEWAY, AND NEW GRADE ELEVATIONS, & LANDSCAPING. 3. CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.

Exist. Blk. Wall

4. QUANTIFICATION AND ACCEPTANCE OF UPSTREAM OFF-SITE

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 SOUTH BY DEVELOPED RESIDENTIAL PROPERTY. MESILLA STREET ALONG FRONTAGE ON THE EAST IS PAVED WITH CURB, GUTTER AND SIDEWALK, AND MAINTAINED BY THE CITY OF ALBUQUERQUE. THE SITE CURRENTLY DRAINS AT 2% FROM SOUTHWEST TO NORTHEAST.

HISTORICAL SITE RUNOFF OUTFALL LOCATIONS WILL REMAIN UNCHANGED. SINCE THE STREET IS IMPROVED WITH DRIVEPAD NO GRADING IS PROPOSED WITHIN THE R.O.W. FREE DISCHARGE OF DEVELOPED FLOW IS ACCEPTABLE SINCE THE TOTAL INCREASE OF DEVELOPED FLOW IS MINIMAL, AND CAPACITY EXISTS DOWNSTREAM.

THE GRADING AND DRAINAGE SCHEME MITIGATES IMPACT TO ADJACENT PROPERTY.

5334

S.S.O.

Project Bench

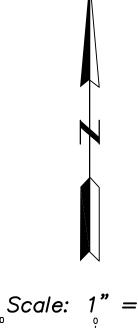
Back of Sdwk

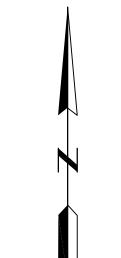
S Drive

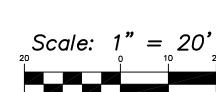
REMOVE -EXIST. CONC.

ELEV.

5334.80







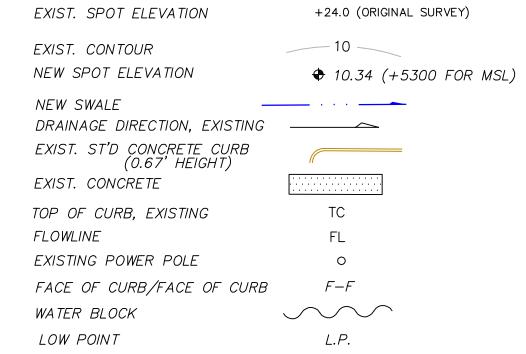
VICINITY MAP

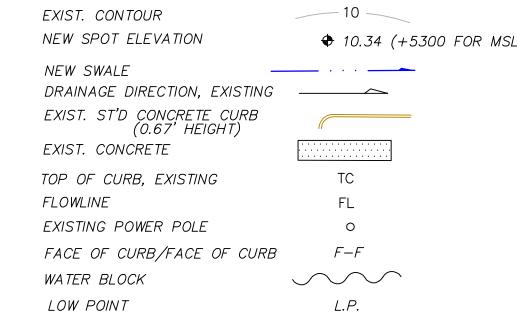
ZONE L−19

NOTES

- 1. ANY WORK WITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION, 2020 EDITION W/ UPDATES. 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. ASPHALT PARKING AREA SHALL DRAIN DIRECTLY TO EXISTING CURB CUT.
- 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: 3 HORIZONTAL TO 1 VERTICAL, 3:1. ALL DIMENSIONS TO FACE OF CURB, UNLESS NOTED OTHERWISE.

LEGEND





PROJECT DATA

LEGAL DESCRIPTION

LOT 17, BLOCK 12, EMIL MANN ADDITION ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

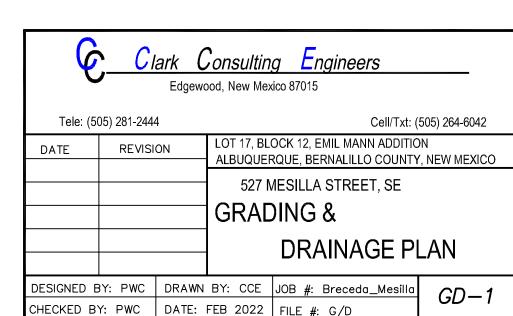
PROJECT BENCHMARK

TOP OF BACK OF SIDEWALK AT THE PROJECT NORTHEAST CORNER MSL ELEVATION = 5334.0, AS TIED FROM COA ACS MONUMENT, "7-K19" LOCATED AT THE INTERSECTION OF LOUISIANA AND CENTRAL AVENUE, SE. FIELD CONFIRM CONTROL TO NNE TOP OF CURB RETURN of TRUMBULL & MESILLA, MSL ELEV. 5336.37

(TIED TO ACS 7-K19, MSL OF 5325.00, NAVD 88 DATUM)

TOPOGRAPHIC DESIGN SURVEY(S)

COMPILED BY CLARK CONSULTING ENGINEERS FROM IN-HOUSE DATA. AND COLLECTED BY ALPHA PRO SURVEYING.



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 EARTHWORK OF ANY KIND. NOR ANY DISTURBANCE OF THE EXISTING GROUND HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.

LOT 8, BLK. 12 EMIL MANN ADDN.