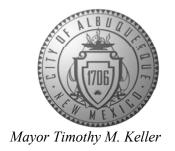
### CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



June 7, 2023

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

**RE:** Lot 6 – 3151 Bridge St. SW

Grading and Drainage Plan Engineer's Stamp Date: 05/16/23

Hydrology File: L11D067D

Dear Mr.Clark:

PO Box 1293

Based upon the information provided in your submittal received 05/17/2023, the Grading and Drainage Plan is approved for Building Permit and Grading Permit. Since this site has already been disturbed and graded, 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 924-3995 or <a href="mailto:rbrissette@cabq.gov">rbrissette@cabq.gov</a>.

Sincerely,

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology

Renée C. Brissette

Planning Department



# City of Albuquerque

Planning Department

Development & Building Services Division

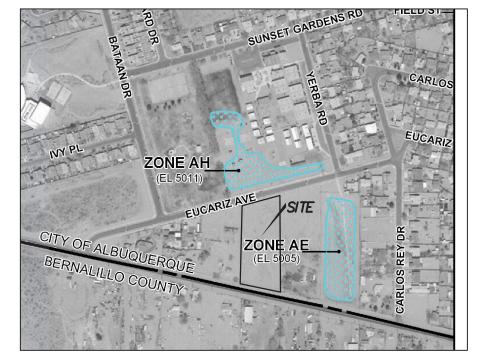
DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

| Lopez WEST Residential Building Permit #; BP-2023-04561 Hydrology File #: L11/D0067 | EPC#: Work Order#: | Lots 4,5 6, Plat of Lopez West /LOT 316A, UNIT 3, TOWN OF ATRISCO GRANT 3141, 3151 Bridge St SW 87105 | ENGINEERS Contact: PHIL | ₩₩ cell / txt 264.6042 E-mail: CCEalbq@aol.com | Dez Contact:                   |          | Fax#: E-mail: | X RESIDENCE DRB SITE ADMIN SITE |                       | TYPE OF APPROVAL/ACCEPTANCE SOUGHT:  X BUILDING PERMIT APPROVAL  CERTIFICATE OF OCCUPANCY |                    | ION PRELIMINARY PLAT APPROVAL    | SITE PLAN FOR BLDG. PERMIT APPROVAL | FINAL PLAT APPROVAL |                 | T APPLIC FOUNDATION PERMIT APPROVAL                       | <b>×</b>              | SO-19 APPROVAL |                                  | GRADING/ PAD CERTIFICATION | WORK ORDER APPROVAL | FLOODPLAIN DEVELOPMENT PERMIT | No OTHER (SPECIFY)        | By: THE engineer        |
|---|--------------------|---|-------------------------|--|--------------------------------|----------|---------------|---------------------------------|-----------------------|---|--------------------|----------------------------------|-------------------------------------|---------------------|-----------------|---|-----------------------|----------------|----------------------------------|----------------------------|---------------------|-------------------------------|---------------------------|-------------------------|
| Project Title: Lopez WEST Resider   | DRB#:              | Legal Description: Lots 4,5 6, Plat of City Address: 3141, 3151 Brid                                  | CLARK CO                | Phone#: 281-2444                               | Other Contact: Francisco Lopez | Address: | Phone#:       | TYPE OF DEVELOPMENT: PLAT       | Check all that Apply: | DEPARTMENT:  X HYDROLOGY/ DRAINAGE  TRAFFIC/ TRANSPORTATION                               | TYPE OF SUBMITTAL: | ENGINEER/ARCHITECT 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 | PRE-DESIGN MEETING?           | IS THIS A RESUBMITTAL?: X | DATE SUBMITTED: 5/16/23 |

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED:

FEE PAID:



FIRM MAP

PANEL # 329

# GRADING & DRAINAGE PLAN

THE 6-LOT RESIDENTIAL SUBDIVISION IS LOCATED IN THE SOUTHWEST AREA OF ALBUQUERQUE APPROXIMATELY 3 MILES SOUTHWEST OF THE DOWNTOWN CORE OF ALBUQUERQUE, NM. THE GRADING & DRAINAGE SCHEME HEREON IS IN COMPLIANCE WITH THE BERN-ALILLO COUNTY FLOOD HAZARD ORDINANCE, NO.88-46, 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: INCLUDING VACANT LOT
- 2. PROPOSED IMPROVEMENTS: 6-2600 SF TOTAL SUB-GRADE PAD AREA(S), NEW CONCRETE DRIVEPADS AND ON-SITE PARKING, NEW GRADE ELEVATIONS, WALLS, FLATWORK AND LANDSCAPING.
- 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 EAST AND WEST BY RESIDENTIAL
USE. BRIDGE AND EUCARIZ DR. ON THE SOUTH AND NORTH ARE PAVED. EUCARIZ AVE.
ON THE NORTH, HAS EXISTING CURB, GUTTER AND SIDEWALK, WHILE BOTH EUCARIZ
AND BRIDGE ARE MAINTAINED BY THE CITY OF ALBUQUERQUE. THE SITE
CURRENTLY DOES NOT DRAIN OR DISCHARGE RUNOFF.

HISTORICAL SITE RUNOFF OUTFALL LOCATIONS WILL REMAIN UNCHANGED.
SINCE BOTH STREETS ARE IMPROVED ONLY MINIMAL GRADING (DRIVEPAD RECONSTR~N) IS
PROPOSED WITHIN THE CITY R.O.W. THE "FIRST BLUSH" 1/2—INCH RAINSTORM
IS RETAINED ON—SITE SINCE RUNOFF IS NOT DISCHARGED TO THE ADJACENT STREETS.
ADDITIONALLY, RUNOFF IS ROUTED TO LANDSCAPING AND WATER HARVESTING IS RECOMMENDED.

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

# CALCULATIONS

#### AS REVISED PER VALLEY GRADING SCHEME 6-5(D) (2020 DPM)

#### DESIGN CRITERIA

HYDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM) REVISED JANUARY 1993 FOR CITY OF ALBUQUERQUE ADOPTED BY THE COUNTY OF BERNALILLO DISCHARGE RATE:  $Q=QPEAK \times AREA$ ..."Peak Discharge Rates For Small Watersheds" VOLUMETRIC DISCHARGE: VOLUME = EWeighted  $\times$  AREA P100 = 2.20 Inches, Zone 1 Time of Concentration, TC = 10 Minutes DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR [ ] = 10 YEAR VALUES

#### EXISTING CONDITIONS

TOTAL AREA = 2.09 ACRES, WHERE EXCESS PRECIP. 'A' = 0.49 In. [0.08] PEAK DISCHARGE, Q100 = 2.7 CFS [0.51], WHERE UNIT PEAK DISCHARGE 'A' = 1.29 CFS/AC. [0.24] THEREFORE: VOLUME 100 = 3717 CF [607]

#### DEVELOPED CONDITIONS

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

| • | ON STODI ANEA           | <u>AREA</u>   | <u>LAND TREATM'T</u> | <u>Q</u> Peak     | <u>E</u>   |
|---|-------------------------|---------------|----------------------|-------------------|------------|
|   | UNDEVEL./HARVESTPond    | 0.84 Ac.(40%) | A                    | 1.29[0.24]        | 0.49[0.08] |
|   | LANDSCAPING             | 0.42 Ac.(20%) | В                    | <i>2.03[0.76]</i> | 0.67[0.22] |
|   | GRAVEL & COMPACTED SOIL | 0.48 Ac.(23%) | C                    | 2.87[1.49]        | 0.99[0.44] |
|   | ROOF - PAVEMENT         | 0.36 Ac.(17%) | D                    | 4.40[2.90]        | 1.97[1.24] |
|   |                         | 2.09 Ac.      |                      |                   |            |

THEREFORE:  $E_{Weighted} = 0.89 \text{ In.}[0.38]$  &

Q100 = 4.89 CFS VOLUME 100 = 6752 CFQ10 = 2.28 CFS VOLUME 10 = 2883 CF

RECOMMEND: ROUTE DEVELOPED RUNOFF THROUGH EXISTING/UPGRADED SOFT LANDSCAPING INCLUDING DEPRESSED LANDSCAPING IN THE NEW REAR YARDS AS SHOWN

# PART 6-5(D) RESIDENTIAL SUBDIVISION 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: 4400 SF X 0.5/12 = 183 CF PER LOT

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)

✓ V-10DAYS = V360 + AD \* (P10DAYS - P360) / 12 in/ft 

TYPICAL PER LOT

 $= 1125 + 0.10(1.31)/12 \times 43560 = 1600 CF$ 

LOT(s) COMPLETELY WALLED IN

ASSUME @/Or Above 10-yr.
Approx. 0.1 Ac., LT. 'D' per Lot

THEREFORE:

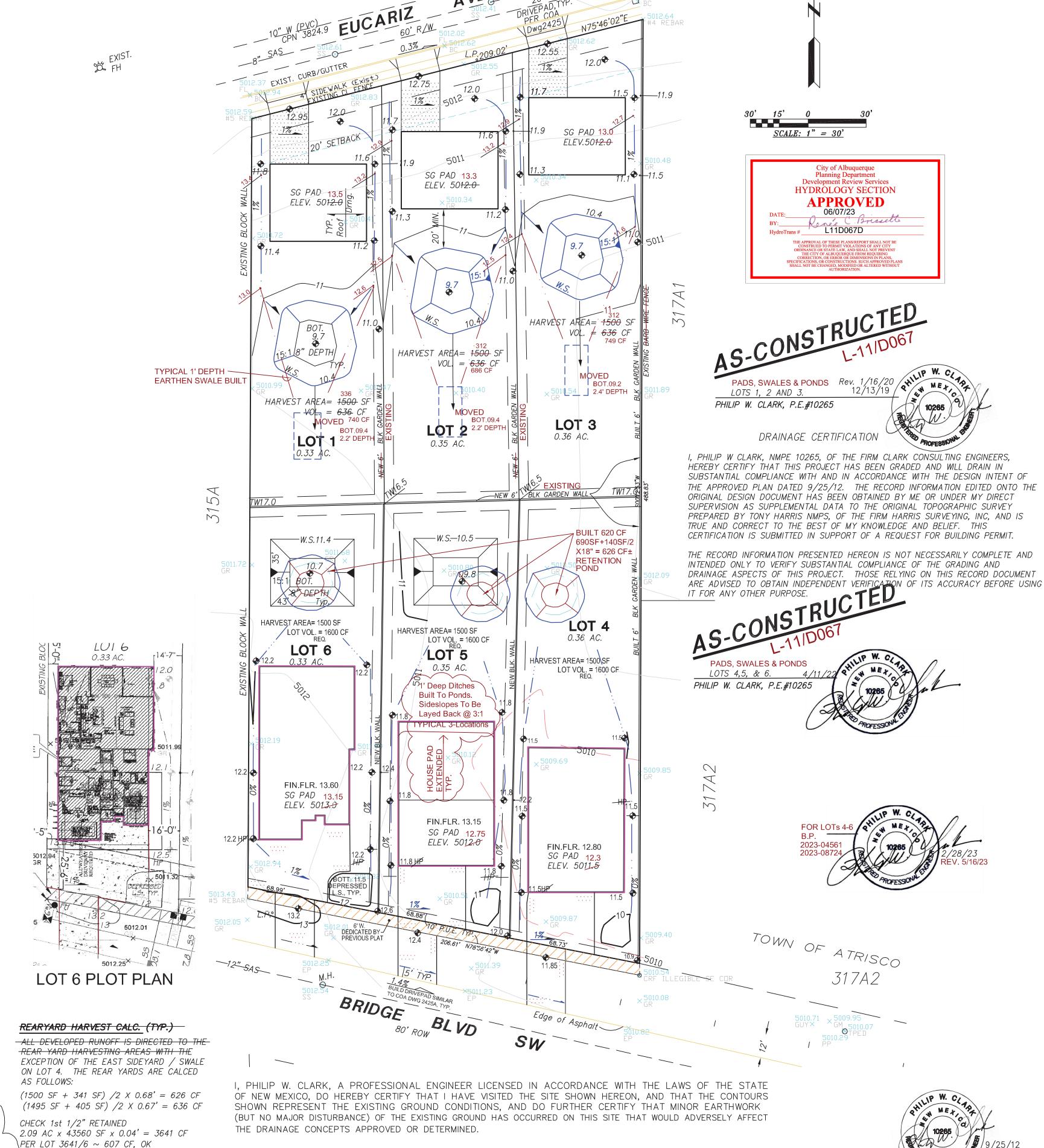
LOT VOL. PROVIDED,

0.22 AC./2 X 0.7' (43560) = 3300 CF

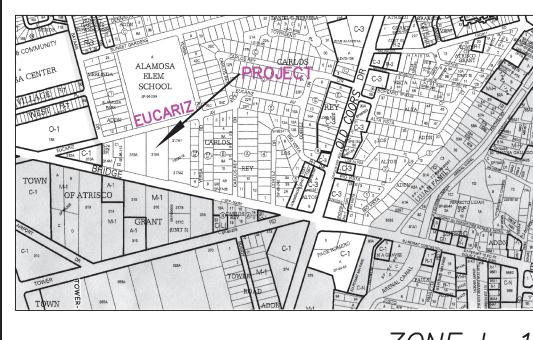
THIS IS EXCLUDING THE 600 CF

HARVEST AREAS PREVIOUSLY BUILT/

(SEE 4.11.22 CERTIFIED)



PHILIP W. CLARK NMPE #10265



ZONE L-1

# 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, 8TH 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.
- 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

# AS-BUILT SPOT ELEVATION EXIST. SPOT ELEVATION EXIST. CONTOUR 10

FLOWLINE FL

EXISTING POWER POLE O

FACE OF CURB/FACE OF CURB F-F

HIGH POINT HP

WATER SURFACE W.S.

# PROJECT DATA

#### LEGAL DESCRIPTION (CONCURRENT PLATTING)

LOTS 1-6, LOPEZ WEST SUBDIVISION ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

#### PROJECT BENCHMARK

TOP OF REBAR/CAP AT THE PROJECT SOUTHEAST CORNER MSL ELEVATION = 5010.54, AS TIED FROM COA 3-1/4" DIAMETER ALUM DISK, 8\_L10, NAVD 88, MSL ELEV. 5069.58, LOCATED AT THE NE INTERSECTION OF 75TH ST. AND BRIDGE BLVD.

#### TOPOGRAPHIC DESIGN SURVEY

4/7/22

PROVIDED BY THE SURVEY OFFICE UNDER THE DIRECTION OF ANTHONY HARRIS, N.M.P.S., DATED JULY 2012.

|  | Clark Consulting Engineers |
|--|----------------------------|
|  | Edgewood, New Mexico 87015 |

Tele: (505) 281–2444

DATE REVISION

9.21.12 ADDR. COA

9.19.12 LET

1/16/20 AS-BUILT 1-3

Cell: (505) 264–6042

LOT 316A, UNIT 3, TOWN OF ATRISCO GRANT ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

BRIDGE BLVD / EUACARIZ

LOPEZ WEST

Creating 9 Drainage

AS-BUILT 1-3
AS-BUILT 4-6
LOT 6 FOR B.P.

AS-BUILT 4-6
Plan

DESIGNED BY: PWC DRAWN BY: CCE JOB #: LOPEZ\_F
CHECKED BY: PWC DATE 7/2012 FILE #: G/D

1 OF 1