# CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

November 13, 2024

David Soule, P.E. Rio Grande Engineering PO BOX 93924 Albuquerque, NM 87199

RE: Velasquez Residence 8701 Glendale NE Grading & Drainage Plan Engineer's Stamp Date: 11/5/24 Hydrology File: B20D069

Dear Mr. Soule:

PO Box 1293 Based upon the information provided in your submittal received 11/05/2024, the Grading & Drainage Plan **is not approved** for Building Permit. The following comments need to be addressed for approval of the above referenced project.

Albuquerque

NM 87103

www.cabq.gov

1. Per the IDO, the property owner of the property is responsible for building the adjacent half of Glendale Ave. NE to include curb & gutter, and sidewalk. The project will have to go to the Development Facilitation Team (DFT) for approval of the Infrastructure List. Also, half of an 84" storm sewer (see below) will also need to added to the Infrastructure List. The storm sewer was called out in the NAA MDP.



- 2. These improvements will need to be shown on the Grading & Drainage Plan.
- 3. Properly showing and calculating the existing drainage that goes in the natural arroyo and Glendale from the east to the west needs to be done. This existing drainage needs to be

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allowed to go through the property and can be managed somehow in the proposed development.



- 4. Provide management onsite for the Stormwater Quality Volume (SWQV) in accordance with the new drainage ordinance, § 14-5-2-6 (H). Please show the top and bottom of the ponds along with the volume for each pond. The onsite drainage should be directed to these ponds prior to being collected in a private unground drainage system. Please follow the DPM Article 6-12 Stormwater Quality and Low-Impact Development for the sizing calculations. To calculate the required SWQV, multiply the impervious area draining to the BMP by 0.42 inches for new development sites and 0.26 inches for redevelopment sites. The calculations of both the required and the provided volume of each BMP must be shown on the Grading and Drainage Plan. Each BMP should be labeled on the Grading and Drainage Plan with the required SWQV and associated water surface elevation and the 100-year water surface elevation. Landscaping of surface BMPs is also required to be noted on the Grading and Drainage Plan.
  - 5. Provide the existing and proposed grades on both sides of the proposed retaining wall.
  - 6. Provide sections through all external boundaries showing proposed retaining walls, garden walls, property/ROW lines, existing and proposed grades. In accordance with DPM Ch.22, section 5 part B, grading and wall construction near the property line may not endanger adjacent property or constrain its use.

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 505-924-3314 or amontoya@cabq.gov.

Sincerely,

anthe Mart

Anthony Montoya, Jr., P.E. Senior Engineer, Hydrology Planning Department, Development Review Services



## **City of Albuquerque**

Planning Department Development & Building Services Division

#### DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

| Pr           | oject Title: Velasquez Residence                         |                   | Hydrology File # B20/D069               |  |  |  |  |
|--------------|--|-------------------|---|--|--|--|--|
| Le           | egal Description: LOT 24, BLK 16, TRACT 1, UNIT 3 N      | Iorth Albuq Acres | ;<br>;                                  |  |  |  |  |
| Ci           | ty Address, UPC, OR Parcel:8701 Glendale NE              | <u> </u>          |   |  |  |  |  |
| A            | pplicant/Agent: RIO GRANDE ENGINEERING                   | Contact:          | DAVID SOULE                             |  |  |  |  |
| A            | ddress: PO BOX 93924 ALB NM 87199                        | Phone:            | 5058.321.9099                           |  |  |  |  |
| Eı           | nail: david@riograndeengineering.com                     |                   |   |  |  |  |  |
| A            | pplicant/Owner:  | Contact:          |   |  |  |  |  |
| A            | ddress:  | Phone:            |   |  |  |  |  |
| Eı           | nail:  |                   |   |  |  |  |  |
| (P           | lease note that a DFT SITE is one that needs Site Plan A | Approval & ADM    | AIN SITE is one that does not need it.) |  |  |  |  |
| T            |  |                   | RESIDENCE                               |  |  |  |  |
| 1            | PLAT (#01 lots)  | [✔_               | RESIDENCE                               |  |  |  |  |
|              | DFT SITE   |                   | ADMIN SITE                              |  |  |  |  |
| RI           | E-SUBMITTAL: <b>V</b> YES <b>NO</b>                      |                   |   |  |  |  |  |
| _            |  |                   |   |  |  |  |  |
| D            | EPARTMENT: TRANSPORTATION                                | HYDROLO           | DGY/DRAINAGE                            |  |  |  |  |
| Cl           | heck all that apply under Both the Type of Submittal     | and the Type      | of Approval Sought:                     |  |  |  |  |
| T            | YPE OF SUBMITTAL:  | TYPE OF           | APPROVAL SOUGHT:                        |  |  |  |  |
|              | ENGINEER/ARCHITECT CERTIFICATION                         | BUILDI            | NG PERMIT APPROVAL                      |  |  |  |  |
|              | PAD CERTIFICATION  | CERTIF            | ICATE OF OCCUPANCY                      |  |  |  |  |
|              | CONCEPTUAL G&D PLAN                                      | CONCE             | PTUAL TCL DFT APPROVAL                  |  |  |  |  |
| $\checkmark$ | GRADING & DRAINAGE PLAN                                  | PRELIM            | INARY PLAT APPROVAL                     |  |  |  |  |
|              | DRAINAGE REPORT  | FINAL F           | PLAT APPROVAL                           |  |  |  |  |
|              | DRAINAGE MASTER PLAN                                     | SITE PL           | AN FOR BLDG PERMIT DFT                  |  |  |  |  |
|              | CLOMR/LOMR   | APPROV            | /AL                                     |  |  |  |  |
|              | TRAFFIC CIRCULATION LAYOUT (TCL)                         | SIA/REI           | EASE OF FINANCIAL GUARANTEE             |  |  |  |  |
|              |  | FOUND             | ATION PERMIT APPROVAL                   |  |  |  |  |
|              | TRAFFIC CIRCULATION LAYOUT FOR DFT                       | GRADIN            | NG PERMIT APPROVAL                      |  |  |  |  |
|              | TRAFFIC IMPACT STUDY (TIS)                               | SO-19 A           | PPROVAL                                 |  |  |  |  |
|              | STREET LIGHT LAYOUT                                      |                   | SPERMIT APPROVAL                        |  |  |  |  |
|              | OTHER (SPECIFY)  | GRADIN            | NG PAD CERTIFICATION                    |  |  |  |  |
|              |  | WORK              | ORDER APPROVAL                          |  |  |  |  |
|              |  | CLOMR             | /LOMR                                   |  |  |  |  |
|              |  | OTHER             | (SPECIEY)                               |  |  |  |  |

DATE SUBMITTED: 11/5/24

#### Weighted E Method

Existing Developed Basins

|                 |       |         |           |               |       |             |       |             |     |            | 100-Year, 6-ł | ۱r.     |        | 10-day  |
|-----------------|-------|---------|-----------|---------------|-------|-------------|-------|-------------|-----|------------|---------------|---------|--------|---------|
| Basin           | Area  | Area    | Treatment | A Treatment B |       | Treatment C |       | Treatment D |     | Weighted E | Volume        | Flow    | Volume |         |
|                 | (sf)  | (acres) | %         | (acres)       | %     | (acres)     | %     | (acres)     | %   | (acres)    | (ac-ft)       | (ac-ft) | cfs    | (ac-ft) |
| UPLAND BASIN    | 40575 | 0.931   | 0%        | 0             | 30.0% | 0.279       | 20.0% | 0.18629     | 50% | 0.466      | 1.766         | 0.137   | 3.38   | 0.199   |
| ALLOWED PER NAA | 38610 | 0.886   | 20%       | 0.17727       | 30.0% | 0.266       | 34.0% | 0.30136     | 26% | 0.230      | 1.433         | 0.106   | 2.98   | 0.137   |
| PROPSED         | 38610 | 0.886   | 65%       | 0.57614       | 10.0% | 0.089       | 19.0% | 0.16841     | 6%  | 0.053      | 0.883         | 0.065   | 2.05   | 0.072   |
| COMPARISON      |       |         |           | -0.399        |       | 0.177       |       | 0.133       |     | 0.177      |               | -0.041  | -0.925 | -0.064  |

Equations:

Weighted E = Ea\*Aa + Eb\*Ab + Ec\*Ac + Ed\*Ad / (Total Area)

Volume = Weighted D \* Total Area

Flow = Qa \* Aa + Qb \* Ab + Qc \* Ac + Qd \* Ad

Where for 100-year, 6-hour storm (zone 4) Ea= 0.67

Eb= 0.86 Ec= 1.09 Ed= 2.58 Pond volume required

to reduce to below NAA Allowable Pond volume provided

Narrative

The subject property is located within the boundaries of the North Albuquerque Acres Master Drainage Master Plan. This lot is located in the LR- Low Density Residential area of the developed condition assumption map. The Impevious area conforms to the allowed conditions assumptions. Therefore ponding is not required. Upland flow is allowed to enter from the adjacent property. Due to city policy we are required to build curb and gutter along frontage. The consruction of curb and gutter will prohibit roadway flow from entering site since crown of road is lower than top of curb. The proposed improvements include a future storm drain. All improvements will be built with this project, except the storm drain that will be guaranteed and not built at this time.

Qa= 1.84 Qb= 2.49

Qc= 3.17

Qd= 4.49

0.00 cf

0 cf







-5511.64

G=5511.86

16 TR

BLOCK ACRES,

25, NE

OVERHEAD UTILITY LINE



EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

ALL WORK IN RIGHT OF WALL SHALL BE GOVERNED BY THE APPROVED INFRASTRUCTURE LIST. THE REQUIRED WORK IN RIGHT OF WAY WILL BE FINANCIALLY GUARANTEED AND CONSTRUCTED BY PUBLIC WORK ORDER

PROVIDE 8:1 TRANSITION CLTA=5512.70× TO EXISTING

G=5511.88×

ELEVATION=5512.46

<u>G=55</u>12.47

TSW= 13.6

FL= 12.80



### **EROSION CONTROL NOTES:**

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PEI PRIOR TO BEGINNING WORK.

2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.

3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INT EXISTING RIGHT-OF-WAY.

4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIO ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF T CONTRACTOR.

5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATE EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



|               | A B C A A A A A A A A A A A A A A A A A   | 24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24   |  |
|---------------|---|--|--|
| ERMIT         | ELENA<br>SUPROCOS<br>1A 19 2A 28 5A<br>MAVERICK   | H<br>5P-19-225<br>E<br>4<br>57-19<br>5P-19-225<br>E<br>4<br>5P-19-225<br>E<br>4<br>5P-19-225<br>E<br>4<br>5P-19-225<br>E<br>4<br>5P-19-225<br>E<br>4<br>5P-19-225<br>E<br>4<br>5P-19-225<br>E<br>4<br>5P-19-225<br>E<br>4<br>5P-19-225<br>E<br>4<br>5P-19-225<br>E<br>4<br>5P-19-225<br>E<br>4<br>5P-19-225<br>E<br>4<br>5P-19-225<br>E<br>4<br>5P-19-225<br>E<br>4<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-225<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E<br>5P-19-25<br>E | JNSET<br>scs   |
| 3             | Art survexces in Constant of C  | PAULANTIS<br>-JAMES  | MACON 1  |
| NTO           | , , , , , , , , , , , , , , , , , , ,   | IOULEBOULE   |  |
| ONS ON<br>THE | SAN DEGO  | •          |  |
| TER           | 22 A-1<br>FLORENCE  | A<br>FAR NORTHEAST HEIGHTS<br>ELEMENTARY SCHOOL  | RQUE   |
|               | 1 R-D 44P1 C 34P1<br>30 DU/A 29 44P1 C 34P1 20<br>54P1 56P1 56P1 20<br>34P1 20 | ACRES B-D 16 7 TR 1  | PASEO L  |
|               | R-D   | VA R-D 3 DL/A 16 2 1 1 2 2   |  |
|               | 22 3 DU/A MOJESTO 520<br>MODESTO 52 R-D  | TRACT 1 UNIT 3   |  |
|               | VICINITY  | MAP: B-20-Z  |  |
|               | National Flood H  | azard Layer FIRMette SFEMA Legend  | ED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT  |
|               | CHAR &  | SPECIAL FLOOD<br>HAZARD AREAS  | Without Base Flood Elevation (BFE)<br>2010 A V. 49 Pool Elevation (BFE)<br>With BFE or Depth Zone AE, AO, Art, VE, AR<br>Regulatory Floodway<br>0.2% Annual Chance Flood Hazard, Areas   |
|               | 19 19   | Bernalillo County<br>Unincorporated Areas<br>350001  | of 1% annual chance flood with average<br>depth less than one focu row thit drainage<br>areas of less than one square mile zone x<br>Future Conditions 1% Annual<br>Chance Flood Hazard zone x<br>Area with Reduced Flood Risk due to<br>Levee. See Notes. Zone X                                |
|               |   |  | Area with Flood Risk due to Levee Zone D<br>IREEN Area of Minimal Flood Hazard Zone X<br>Effective LOMRs<br>Area of Undetermined Flood Hazard Zone D   |
|               |   | GENERAL<br>STRUCTURES  | Channel, Culvert, or Storm Sewer     Levee, Dike, or Floodwall     20     Cross Sections with 14 Annual Chance     32     Mater Sections Emutica   |
|               |   | 35001C0133H,<br>eff. 8/16/2012   | Coastal Transect     Limit of Study     Limit of Study     Jurisdiction Boundary     Jurisdiction Boundary     Social Pransect Baseline     Bodile Pranseline  |
|               | ISCHARGE CONTAINED IN STRUCTU<br>Zong AH<br>(EL 5474 Feet)  | RE Zone AO<br>(DEPTH 1 Feet)<br>City of Albuquerque  | Hydrographic Feature Digital Data Available N Dolgital Data Available N  |
|               |   | 350002   | Unmapped he pin displayed on the map is an approximate<br>oint selected by the user and does not represent<br>in authoritative property location.  |
|               |   | This map complies<br>digital flood maps<br>The basemap show<br>accuracy standards<br>The flood hazard in<br>autoritative NFH<br>was exercised on 10  | with FEMA's standards for the use of<br>it is not void as described below.<br>n complies with FEMA's basemap<br>formation is derived directly from the<br>web services provided by FEMA. This map<br>1/29/2024 at 2512 MJ and fore not   |
|               |   | wise exponeed on X<br>reflect changes or<br>time. The NFHL and<br>become supersede<br>This map image is<br>elements do not a<br>legend. Scale bar. It  | (20) 2002 at 8 SU2 F m <sup>2</sup> and bues for<br>mendments subsequent to this date and<br>effective information may change or<br>by new data over time. void if the one or more of the following map<br>pear: basemap imagery. flood zone labels,<br>and creation date.community identifiers. |
|               |   | Feet         1:6,000         106*32'8'W 35*11'12'N         FIRM panel number of unmapped and um regulatory purpose           1,500         2,000         Basemap Imagery Source: USGS National Map 2023         Firm panel number of unmapped and um regulatory purpose  | , and FIRM effective date. Map images for<br>nodernized areas cannot be used for   |
|               | LEGAL DES   | <u>P:</u><br>SCRIPTION·  |  |
|               | LOT 24, BLOCK 16 NO<br>CITY OF ALBUQUERO  | ORTH ALBUQUERQUE ACRES TRACT 1 UNIT 3<br>QUE, BERNALILLO COUNTY, NEW MEXICO  |  |
|               | <b>NOTES:</b><br>1. ALL SPOT ELEVA  | TIONS REPRESENT FLOWLINE ELEVATION UNLESS OTH  | ERWISE NOTED.  |
|               | 2. ALL SLOPES SHA   | ALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIC  | R TO CO.   |
|               | 3. ANY PERIMETER<br>SHALL BE BY OTHE  | WALLS MUST BE PERMITED SEPARATELY ALL RETAININ<br>RS.  | IG WALL DESIGN   |
|               | 4. SURVEY INFORM<br>DATUM 1988.   | IATION PROVIDED BY COMMUNITY SCIENCES CORPORA  | TION USING NAVD  |
|               | 5. LONG TERM MAI  | NTAINANCE OF ALL PONDS, SWALES AND OVERFLOWS I   | S REQUIRED   |
| LEC           | 6. A PAD ELEVATIO<br>PERMIT.<br><b>LF.ND</b>  | N CERTIFICATION SHALL BE REQUIRED PRIOR TO RELE  | ASE OF BUILDING  |
|               | XXXX  | EXISTING CONTOUR   |  |
|               | XXXX  | EXISTING INDEX CONTOUR   |  |
|               |   | <ul> <li>PROPOSED CONTOUR</li> <li>PROPOSED INDEX CONTOUR</li> </ul>   |  |
|               | × XXXX  | EXISTING SPOT ELEVATION  |  |
|               | • xxxx  | PROPOSED SPOT ELEVATION BOUNDARY   |  |
|               |   | ADJACENT BOUNDARY  |  |
| ≡≡≡           |   | $\equiv \equiv$ EXISTING CURB AND GUTTER   |  |
|               |   | <ul><li>PROPOSED EARTHEN SWALE</li><li>PROPOSED RETAINING WALL</li></ul>   |  |
|               |   | PROPOSED GRAVEL  |  |
| [             |   | PROPOSED CONCRETE  |  |
|               |   | PROPOSED ASPHALT   |  |
|               |   |  |  |
|               | ENGINEER'S<br>SEAL  | LOT 24 BLK 16 U 3 NAA  | DRAWN<br><sup>BY</sup> DEM   |
|               | OPUND SOLL  | OIUI GLENDALE AVE. NE  | DATE<br>11-1-24  |
| -             |   |  |  |



