

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

September 22, 2022

David Soule, P.E.
Rio Grande Engineering
P.O. Box 93924
Albuquerque, NM 87199

**RE: 502 Palo Duro Ave NW
Grading and Drainage Plan
Engineer's Stamp Date: 08/31/22
Hydrology File: F14D080**

Dear Mr. Soule:

Based upon the information provided in your submittal received 09/06/2022, the Grading and Drainage Plan is approved for Building Permit. Since this project is an addition to an existing house, a Pad Certification is not required 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.

PRIOR TO CERTIFICATE OF OCCUPANCY:

1. Engineer's Certification, per the DPM Part 6-14 (G): Engineer's Certification Checklist for Subdivision and Part 6-14 (H): Required Certification Language is required.

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

Sincerely,

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



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 502 Palo Duro NW **Building Permit #:** _____ **Hydrology File #:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: LOT 16 Block 1 Sandia plaza subdivision
City Address: 502 Palo Duro NW

Applicant: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Other Contact: RIO GRANDE ENGINEERING **Contact:** DAVID SOULE
Address: PO BOX 93924 ALB NM 87199
Phone#: 505.321.9099 **Fax#:** 505.872.0999 **E-mail:** david@riograndeengineering.com

TYPE OF DEVELOPMENT: _____ PLAT ☒ RESIDENCE _____ DRB SITE _____ ADMIN SITE

Check all that Apply:

DEPARTMENT:
☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION

TYPE OF SUBMITTAL:
☐ ENGINEER/ARCHITECT CERTIFICATION
☐ PAD 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
☐ OTHER (SPECIFY) _____
☐ PRE-DESIGN MEETING?

IS THIS A RESUBMITTAL?: _____ Yes ☒ No

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY

☐ 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
☐ FLOODPLAIN DEVELOPMENT PERMIT
☐ OTHER (SPECIFY) _____

DATE SUBMITTED: _____ **By:** _____

COA STAFF:

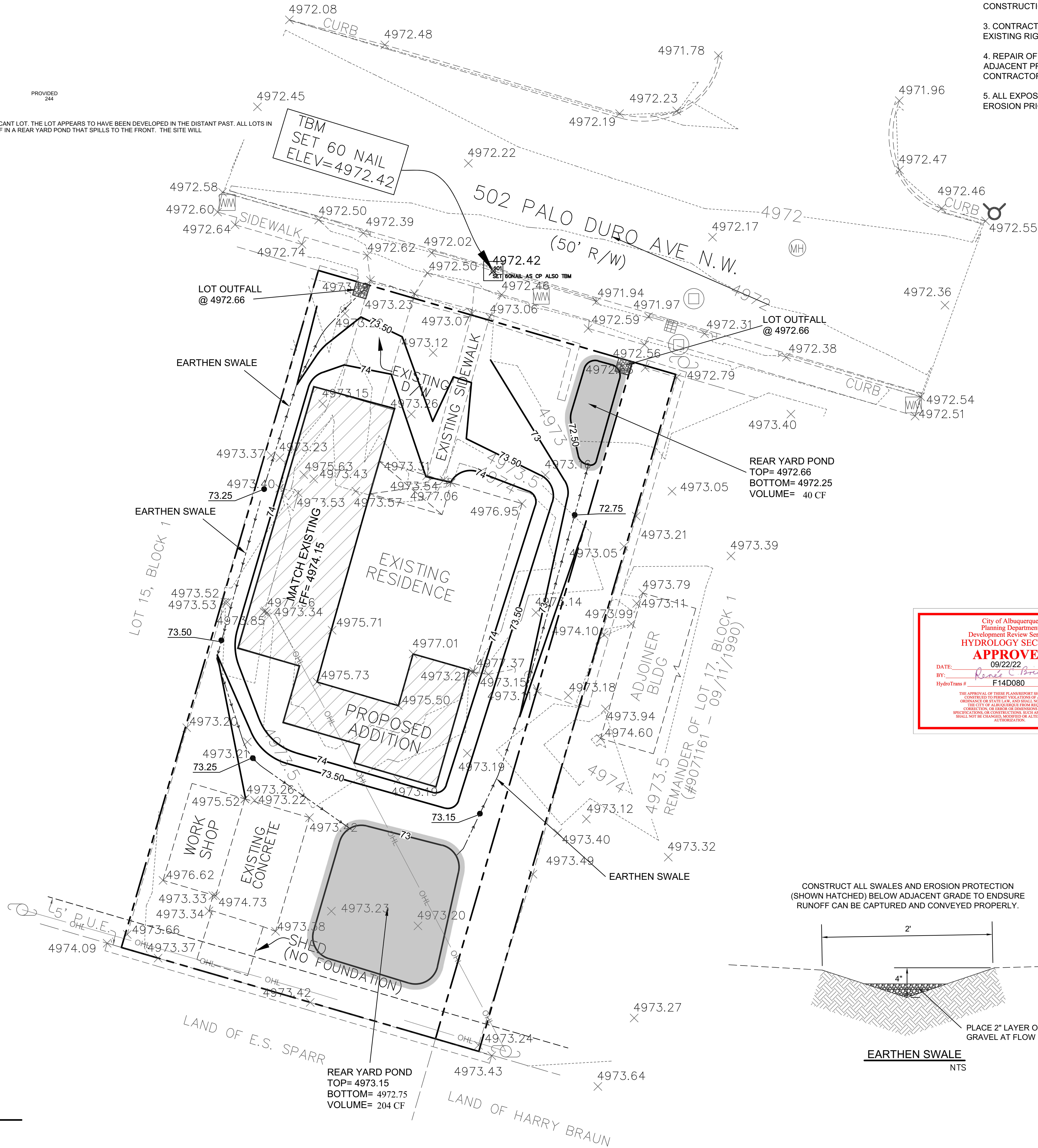
ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

Weighted E Method														
Basis	Area (sf)	Area (acres)	100-Year 5-in								10-day			
			Treatment A	Treatment B	Treatment C	Treatment D	Weighted B	Volume	Flow	Volume				
			%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	(ac-ft)		
EXISTING	8252.00	0.189	0%	0%	23%	0.043	60%	0.1134	17%	0.032	1.198	0.019	0.59	0.023
PROPOSED	8252.00	0.189	0%	0%	20%	0.038	51%	0.0964	28%	0.055	1.361	0.021	0.62	0.026
COMPARISON	0.00	0.00	0%	0.000	-3%	-0.006	-9%	-0.017	12%	0.023	-0.003	0.033	0.006	

Equations:
Weighted E = Ea*As + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)
Volume = Weighted D + Total Area
Flow = Qa * As + Qb * Ab + Qc * Ac + Qd * Ad
Where for 100-year, 6-hour storm:
Ea= 0.02
Eb= 0.8
Ec= 1.03
Ed= 2.33
Qa= 1.71
Qb= 2.36
Qc= 3.09
Qd= 4.34
Developed Conditions:
FLOOD CONTROL INCREASE 10-DAY 243 CF 6-HOUR 112 CF PROVIDED 244

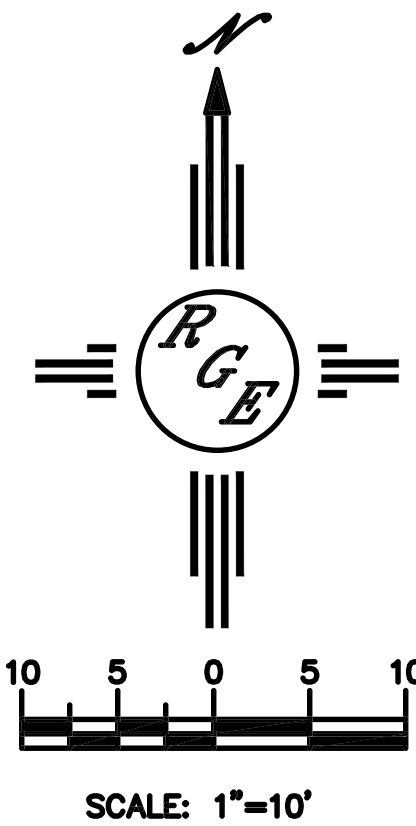
NARRATIVE:
THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW HOME ON A VACANT LOT. THE LOT APPEARS TO HAVE BEEN DEVELOPED IN THE DISTANT PAST. ALL LOTS IN THE SUBDIVISION FREE DISCHARGE. THE PLAN CALLS FOR RETAINING 286 CF IN A REAR YARD POND THAT SPILLS TO THE FRONT. THE SITE WILL FREE DISCHARGE TO PALO DURO AVENUE ONCE THE PONDS FILL.



City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 09/22/22
BY: *Renee Brissette*
HydroTeam # F14D080
THE APPROVAL OF THESE PLANS DOES NOT BE
CONSIDERED TO BE A GUARANTEE OF ANY CITY
ENGINEER OR PLANNING DEPARTMENT. THE CITY
ENGINEER OR PLANNING DEPARTMENT SHALL NOT
BE RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR
PROPERTY, OR FOR ANY LOSS OF PROFITS, OR FOR
ANY OTHER LOSS, INCLUDING BUT NOT LIMITED TO,
LOSS OF PROFITS, LOSS OF REVENUE, LOSS OF
BUSINESS, OR LOSS OF REPUTATION, ARISING
FROM THE USE OF THESE PLANS, OR FROM THE
USE OF ANY INFORMATION CONTAINED HEREIN,
WHETHER OR NOT SUCH LOSS IS CAUSED IN WHOLE
OR IN PART BY THE NEGLIGENCE OF THE CITY
ENGINEER OR PLANNING DEPARTMENT.

CONSTRUCT ALL SWALES AND EROSION PROTECTION
(SHOWN HATCHED) BELOW ADJACENT GRADE TO ENSURE
RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY.

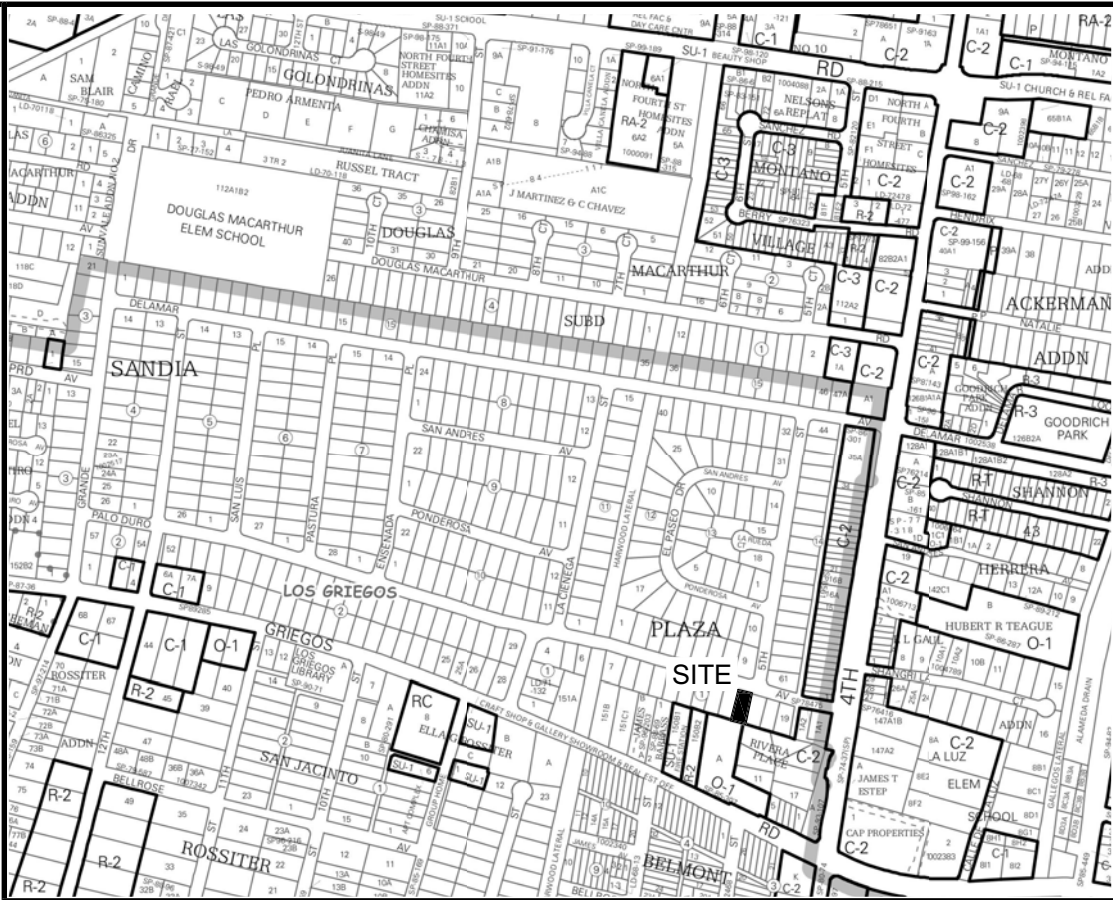
EARTHEN SWALE
NTS



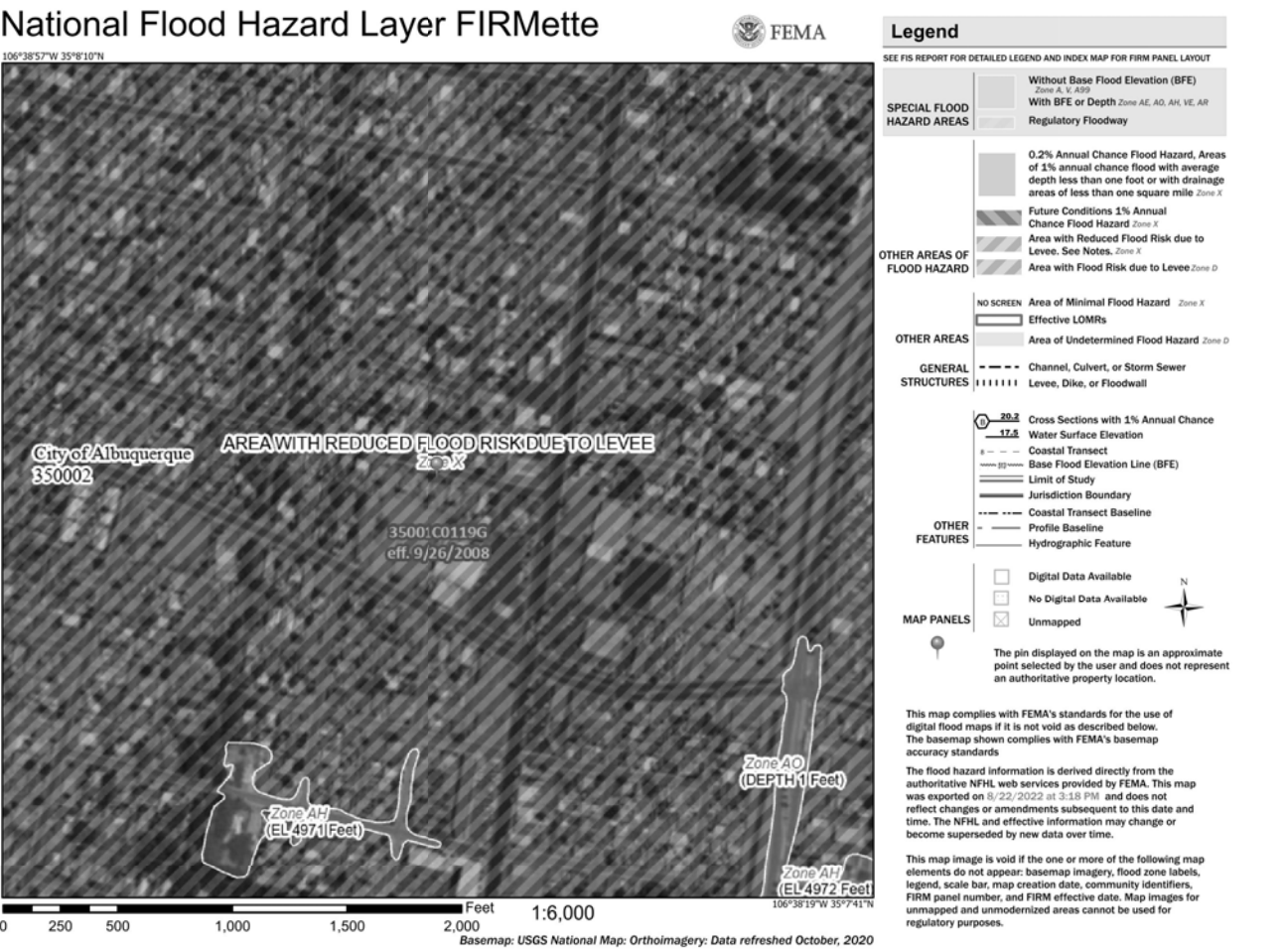
CAUTION:
EXISTING UTILITIES ARE NOT SHOWN.
IT SHALL BE THE SOLE RESPONSIBILITY
OF THE CONTRACTOR TO CONDUCT ALL
NECESSARY FIELD INVESTIGATIONS PRIOR
TO ANY EXCAVATION TO DETERMINE THE
ACTUAL LOCATION OF UTILITIES & OTHER
IMPROVEMENTS.

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT 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 INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



VICINITY MAP: F-14-Z



FIRM MAP:

LEGAL DESCRIPTION:


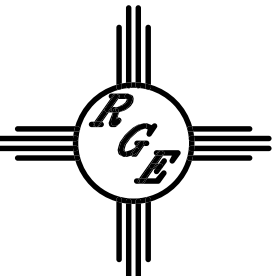
LOT 16, BLOCK 1 SANDIA PLAZA SUBDIVISION
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
3. ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
5. A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

LEGEND

- XXXX----- EXISTING CONTOUR
- XXXX----- EXISTING INDEX CONTOUR
- XXXX----- PROPOSED CONTOUR
- XXXX----- PROPOSED INDEX CONTOUR
- + XXXX EXISTING SPOT ELEVATION
- XXXX PROPOSED SPOT ELEVATION
- BOUNDARY
- ADJACENT BOUNDARY
- ===== EXISTING CURB AND GUTTER
- PROPOSED EARTHEN SWALE
- [Hatched Box] PROPOSED ADDITION
- [Solid Box] PROPOSED PONDING

ENGINEER'S SEAL	LOT 16, BLOCK 1 SANDIA PLAZA SUB 502 PALO DURO AVE N.W.	DRAWN BY DEM
	GRADING AND DRAINAGE PLAN	DATE 8-24-22
8/31/22	 Rio Grande Engineering ALBUQUERQUE, NM 87199 (505) 321-8099	Lot 16 Bk 1 Sandia Plaza Sub.dwg
DAVID SOULE P.E. #14522		SHEET # C1
		JOB #