

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

March 25, 2024

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

RE: 502 Palo Duro Ave NW
Permanent C.O. – Accepted
Engineer's Certification Date: 03/14/24
Engineer's Stamp Date: 08/31/22
Hydrology File: F14D080

Dear Mr. Soule:

PO Box 1293

Based on the Certification received 03/15/2024 and site visit on 03/15/2024, this letter serves as a "green tag" from Hydrology Section for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

Albuquerque

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

NM 87103

Sincerely,

www.cabq.gov

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: _____













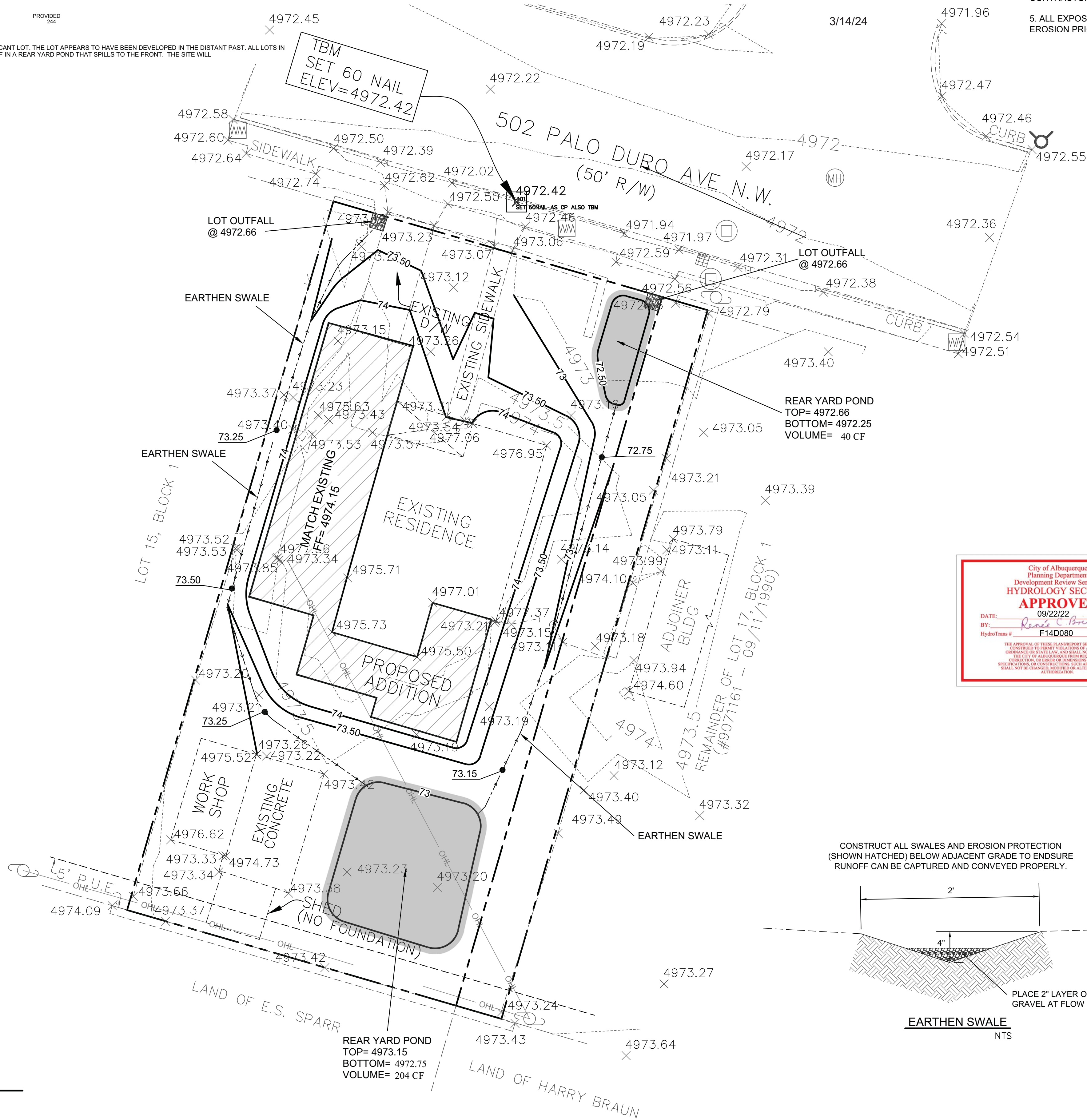






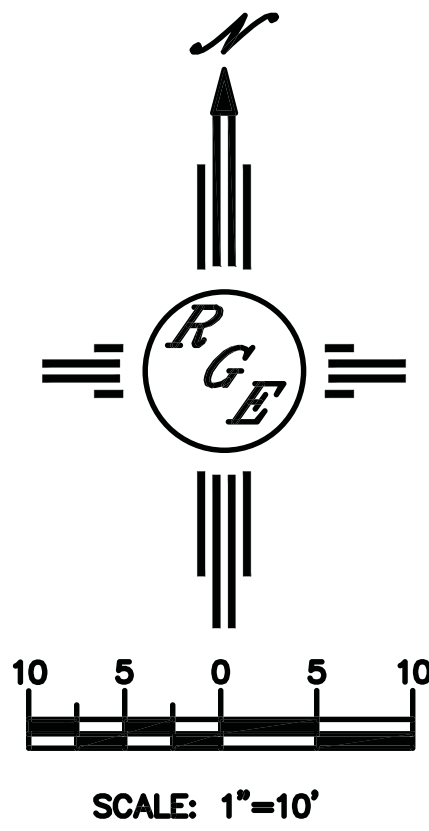
Weighted E Method														
Basis	Area (ft ²)	Area (acres)	100-Year C/F				Volume (bc-ft)	Flow (cfs)	10-Year Volume (bc-ft)	Flow (cfs)				
			Treatment A (%)	Treatment B (%)	Treatment C (%)	Treatment D (%)								
EXISTING	8252.00	0.189	0%	0%	23%	0.043	60%	0.1134	17%	0.032	1.185	0.019	0.39	0.023
PROPOSED	8252.00	0.189	0%	0%	20%	0.038	51%	0.0964	28%	0.065	1.361	0.021	0.62	0.026
COMPARISON	0.00	0.00	0%	0%	0.000	-3%	-0.006	-9%	-0.017	12%	0.023	-0.002	0.003	0.006
Assumptions:														
Weighted E = E ₁ A ₁ + E ₂ A ₂ + E ₃ A ₃ + E ₄ A ₄ / (Total Area)														
Volume = Weighted D * Total Area														
Flow = Q ₁ * A ₁ + Q ₂ * A ₂ + Q ₃ * A ₃ + Q ₄ * A ₄														
Where for 100-year, 6-hour storm:														
E ₁ = 0.02 Q ₁ = 1.71														
E ₂ = 0.8 Q ₂ = 2.36														
E ₃ = 1.03 Q ₃ = 3.00														
E ₄ = 2.33 Q ₄ = 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.



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

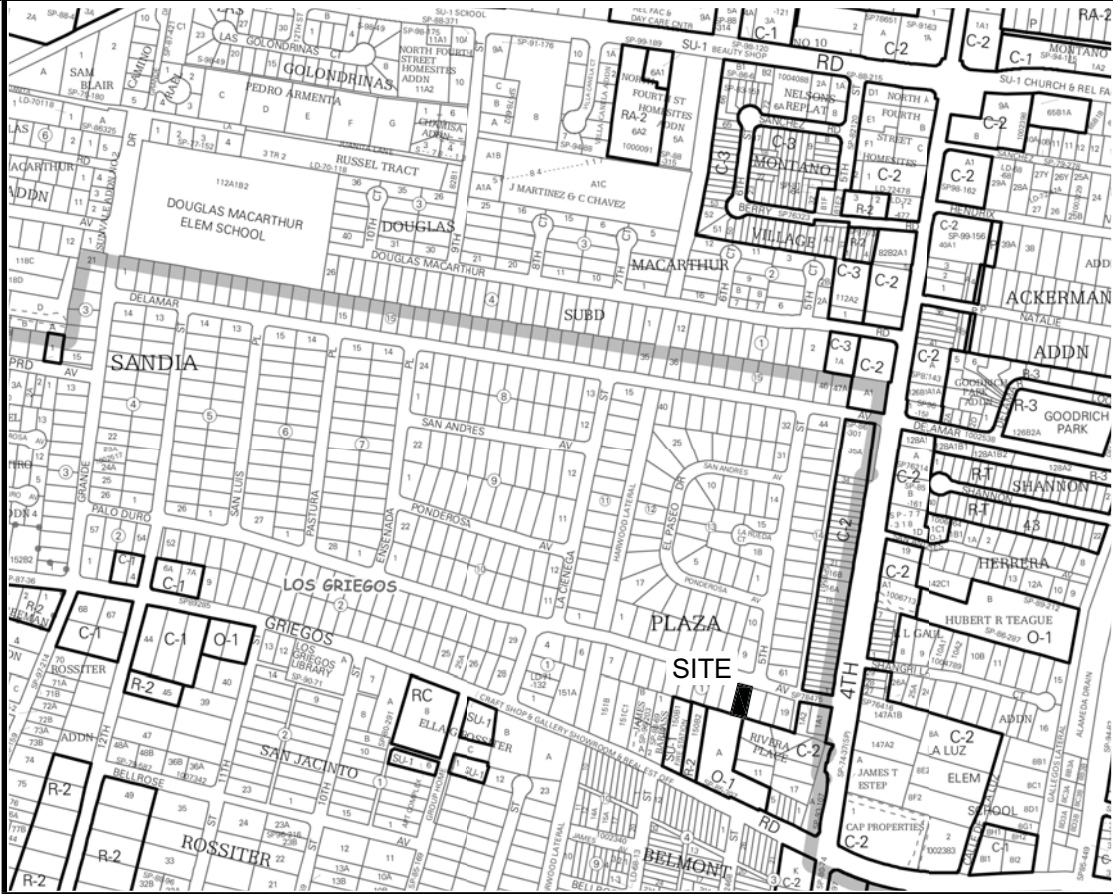
EARTHEN SWALE
NTS



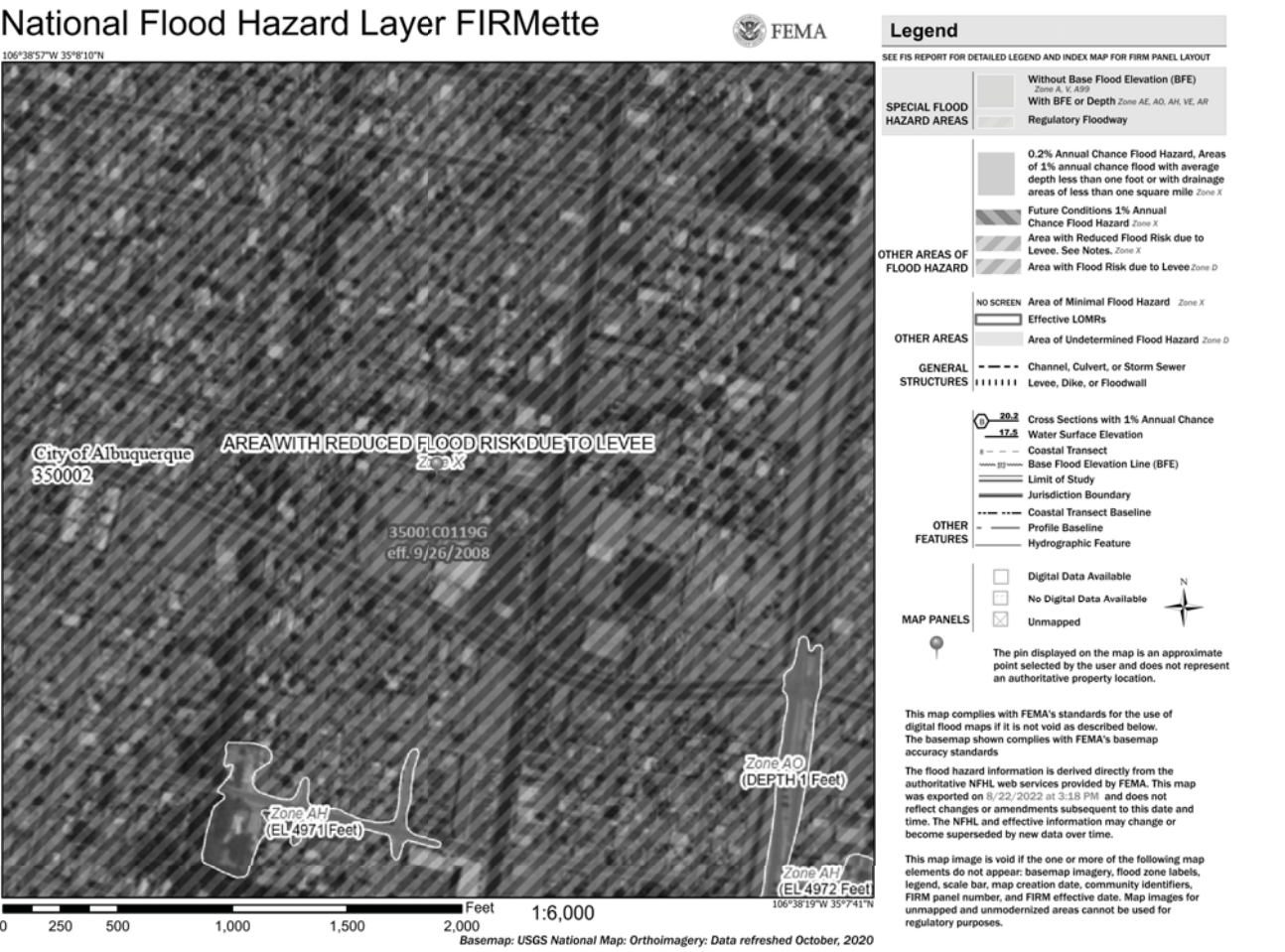
CAUTION:
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

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
- XXXXXX PROPOSED ADDITION
- XXXXXX PROPOSED PONDING

ENGINEER'S SEAL	LOT 16, BLOCK 1 SANDIA PLAZA SUB 502 PALO DURO AVE N.W.	DRAWN BY DEM
DAVID SOULE P.E. #14522	GRADING AND DRAINAGE PLAN	DATE 8-24-22
DAVID SOULE P.E. #14522	Rio Grande Engineering	Lot 16 Bk 1 Sandia Plaza Sub.dwg
DAVID SOULE P.E. #14522	ALBUQUERQUE, NM 87199 (505) 321-9099	SHEET # C1
DAVID SOULE P.E. #14522	ALBUQUERQUE, NM 87199 (505) 321-9099	JOB #