

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

December 29, 2023

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

**RE: 13701 Covered Wagon Ave SE
Grading and Drainage Plan
Engineer's Stamp Date: 12/19/23
Hydrology File: L23D014M**

Dear Mr. Soule:

Based upon the information provided in your submittal received 12/19/2023, 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.

PRIOR TO CERTIFICATE OF OCCUPANCY:

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

Weighted E Method

Basin	Area (sf)	Area (acres)	Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)	Treatment E % (acres)	Treatment F % (acres)	Treatment G % (acres)	100-Year, 6-hr		100 yr 10-day	
										Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)
EXISTING	3927.00	0.090	100%	0.0902	0%	0.000	0%	0.000	0%	0.760	0.006	0.19	0.006
PROPOSED	3927.00	0.090	0%	0	20%	0.018	26%	0.023	54%	0.049	2.306	0.017	0.36

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(zone2)

Ea= 0.76	Qa= 2.09
Eb= 0.95	Qb= 2.73
Ec= 1.2	Qc= 3.41
Ed= 3.34	Qd= 4.78

Developed Conditions 100-YEAR,

EXISTING DISCHARGE 0.19 CF

PROPOSED DISCHARGE 0.36 CF

INCREASE 0.17 CF

This site is one of the last vacant lots in an existing subdivision. The subdivision was analyzed and approved with drainage file E21-D16. The drainage file appears to be incomplete, yet all the lots are free discharge. Therefore, we believe this lot should be allowed to free discharge.

Drainage patterns will remain as historical and drain to the adjacent roadways. No upland flows impact this site.

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.

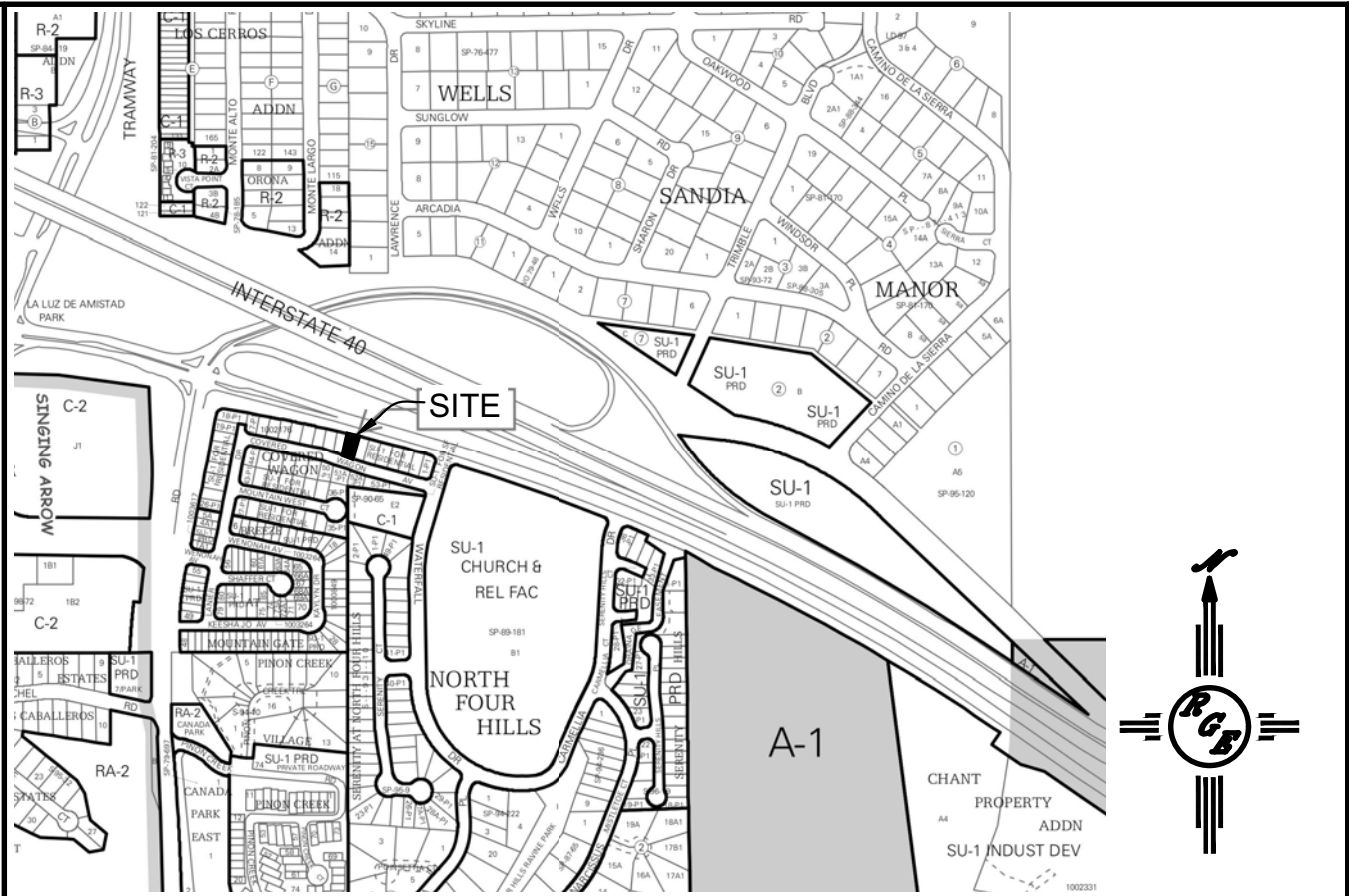
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.

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

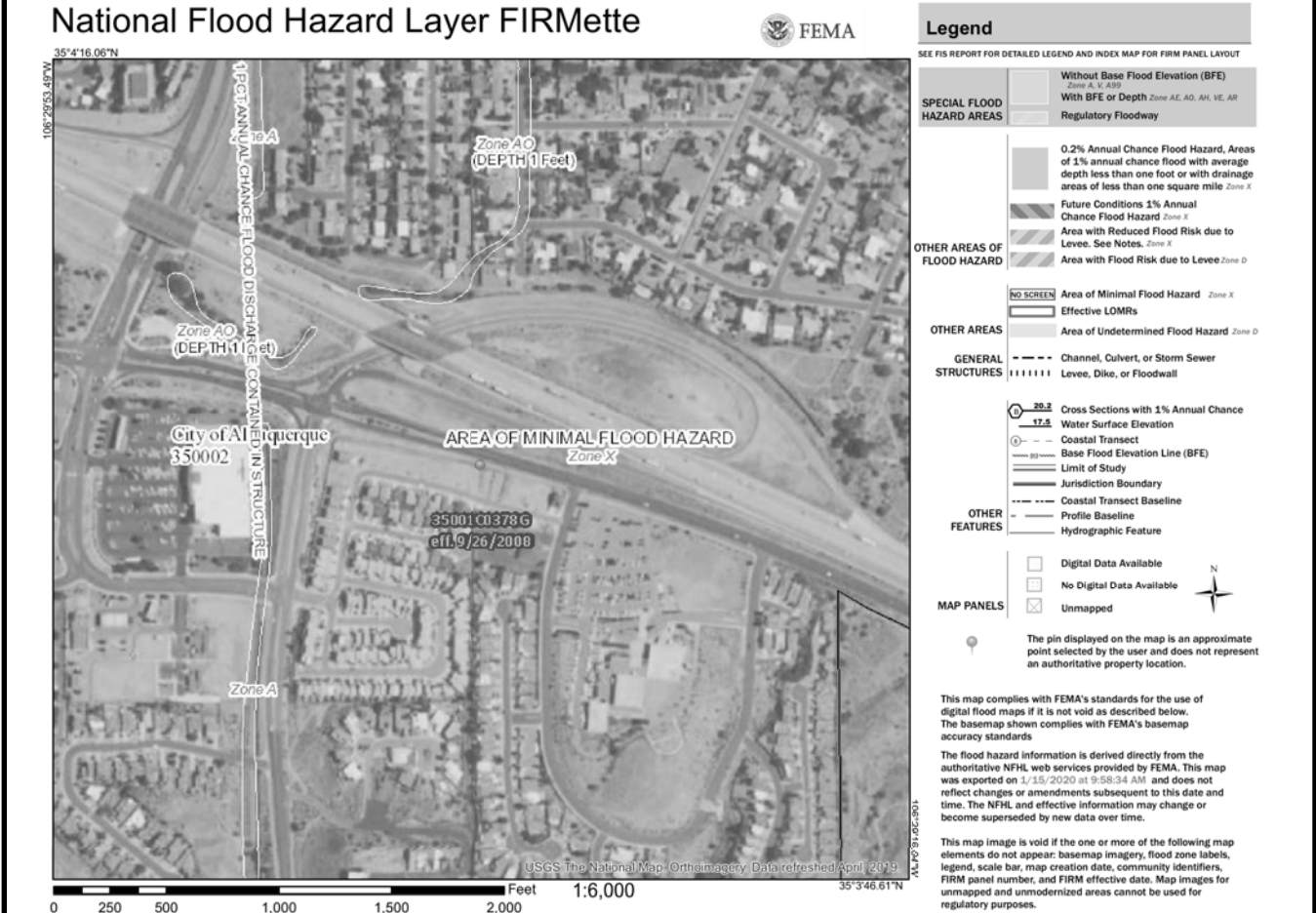
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



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



VICINITY MAP:



FIRM MAP:

LEGAL DESCRIPTION:

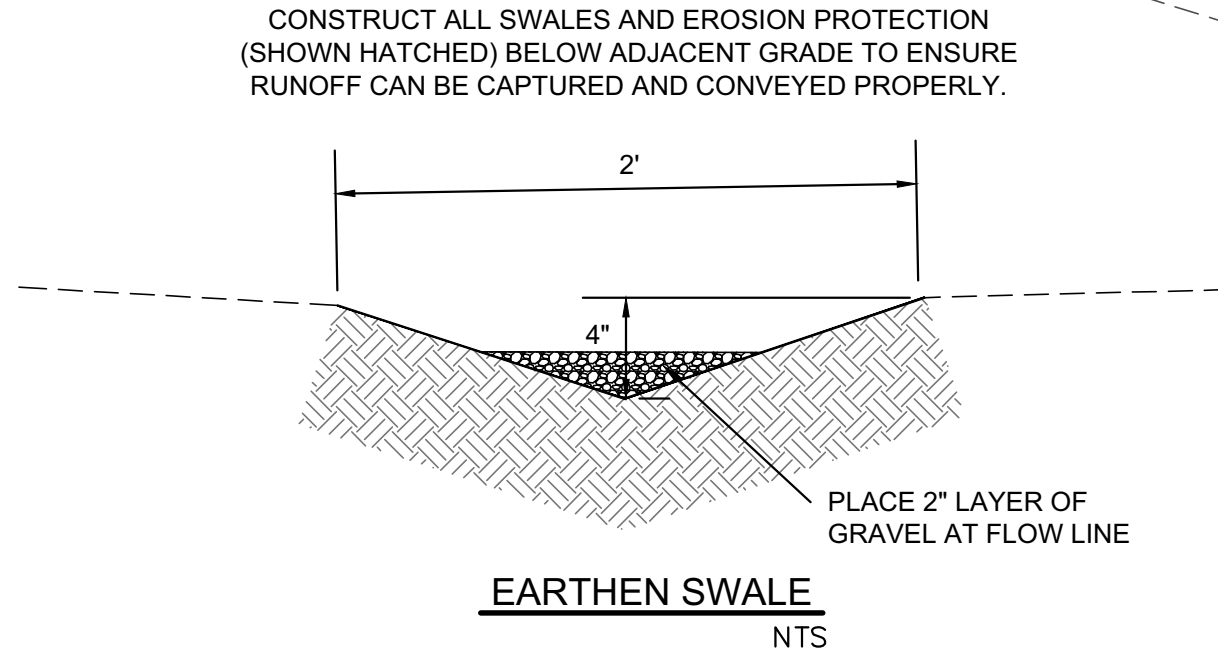
LOT 8-P1 COVERED WAGON SUBDIVISION
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

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

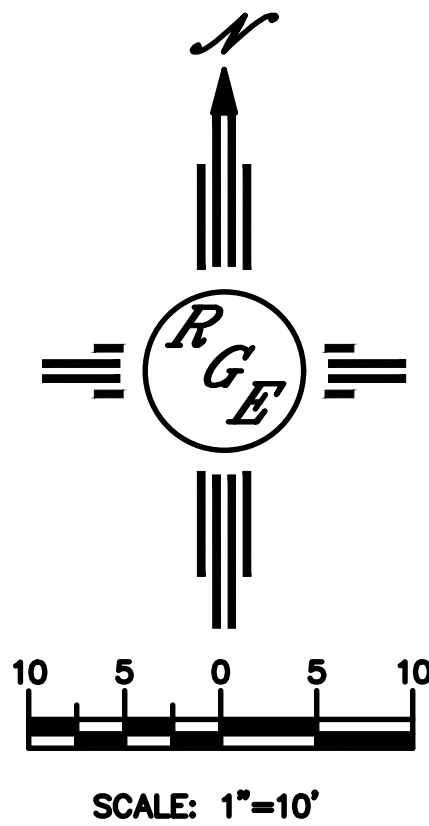
LEGEND

-----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
-----<-----	PROPOSED RETAINING WALL
-----<-----	PROPOSED CONCRETE



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.



ENGINEER'S SEAL	LOT 8-P1 COVERED WAGON SUB 13701 COVERED WAGON AVE.	DRAWN BY DEM
DAVID SOULE 14522 REGISTERED PROFESSIONAL ENGINEER	GRADING AND DRAINAGE PLAN	DATE 3-17-23
12/19/23	Rio Grande Engineering	13701 Covered Wagon Ave. DWG
DAVID SOULE P.E. #14522		SHEET # C1
		JOB #