## CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



July 25, 2024

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

RE: 1606 Bayita Lane NW

> **Grading and Drainage Plan** Engineer's Stamp Date: 7/17/24 Hydrology File: F13D036

Dear Mr. Soule:

PO Box 1293

Based upon the information provided in your submittal received 07/17/2024, the Grading and Drainage Plans are approved for Building Permit. Since this site is (1) relatively flat and grades to the road and (2) this site will have stem walls, 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 505-924-3314 or amontoya@cabq.gov.

Sincerely,

Anthony Montoya, Jr., P.E.

anth Mars

Senior Engineer, Hydrology

Planning Department, Development Review Services



## **City of Albuquerque**

Planning Department
Development & Building Services Division

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

Project Title:		Hydrology File #						
Legal Description:								
City Address, UPC, OR Parcel	:							
Applicant/Agent:		Contact:						
		Phone:						
Email:								
Applicant/Owner:		Contact:						
Address:		Phone:						
Email:								
(Please note that a DFT SITE is or	ne that needs Site Plan A	pproval & ADMIN SITE is one that does not need it.)						
TYPE OF DEVELOPMENT:	PLAT (#of lots)	RESIDENCE						
	DFT SITE	ADMIN SITE						
RE-SUBMITTAL: YES	NO							
DED A DEMENT. TO A NI	SDODT A TION	HVDDOLOGV/DD A DIA CE						
<b>DEPARTMENT:</b> TRANS	SPORTATION	HYDROLOGY/DRAINAGE						
Check all that apply under Both	the Type of Submittal	and the Type of Approval Sought:						
TYPE OF SUBMITTAL:		TYPE OF APPROVAL SOUGHT:						
ENGINEER/ARCHITECT CE	RTIFICATION	BUILDING PERMIT APPROVAL						
PAD CERTIFICATION		CERTIFICATE OF OCCUPANCY						
CONCEPTUAL G&D PLAN		CONCEPTUAL TCL DFT APPROVAL						
GRADING & DRAINAGE PI	LAN	PRELIMINARY PLAT APPROVAL						
DRAINAGE REPORT		FINAL PLAT APPROVAL						
DRAINAGE MASTER PLAN		SITE PLAN FOR BLDG PERMIT DFT						
CLOMR/LOMR		APPROVAL						
TRAFFIC CIRCULATION LA	AYOUT (TCL)	SIA/RELEASE OF FINANCIAL GUARANTEE						
ADMINISTRATIVE		FOUNDATION PERMIT APPROVAL						
TRAFFIC CIRCULATION LA APPROVAL	AYOUT FOR DFT	GRADING PERMIT APPROVAL						
TRAFFIC IMPACT STUDY (	TIS)	SO-19 APPROVAL						
STREET LIGHT LAYOUT	. ,	PAVING PERMIT APPROVAL						
OTHER (SPECIFY)		GRADING PAD CERTIFICATION						
- 111211 (C1 2011 1)		WORK ORDER APPROVAL						
		CLOMR/LOMR						
		OTHER (SPECIFY)						
DATE SUBMITTED:								

											100	-Year, 6-hr	•	100 yr 24-HO
Basin	Area	Area	ea 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)
Historical	25050.00	0.575	0%	0	78%	0.449	10%	0.058	12%	0.069	1.007	0.048	1.53	0.05
Front pond	6180.00	0.142	0%	0	46%	0.065	30%	0.043	24%	0.034	1.236	0.015	0.43	0.01
Rear pond	18870.00	0.433	0%	0	55%	0.240	30%	0.130	15%	0.064	1.094	0.039	1.24	0.04
PROPOSED	25050.00	0.575	0%	0	53%	0.305	30%	0.173	17%	0.098	1.129	0.054	1.67	0.05

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)

Eb = 0.8Ed= 2.33

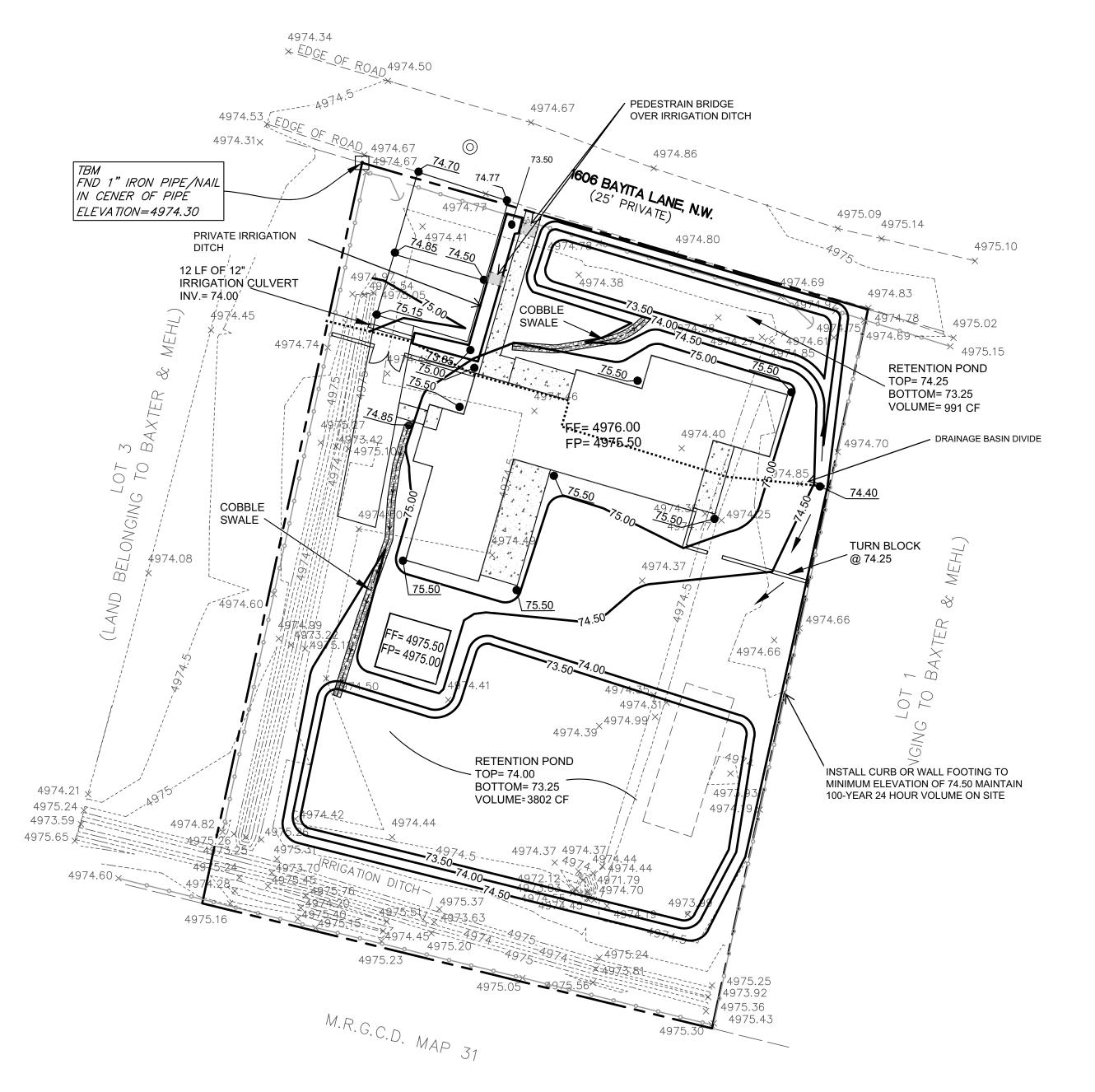
**Developed Conditions** TOTAL VOLUME PROPOSED GENERATION 4793 CF PROPOSED PONDING

> FRONT GENERATION FRONT PONDING REAR GENERATION

This site is an development of a previously developed lot. The improvements were recently removed. The site will conform to the valley flat area drainage scheme. The site will retain the 100-year 24-hour. The ponds will overlow to the adjacent lots and ultimatly to the street in the event of a storm exceeding the 100-year event. The surrounding are is flat, existing irrigation ditches do not allow offsite flows enter the site from south and west. The street and a curb/wall prevent offsite flow on north and east The pad is proposed to be 1.5' higher than the maximum water surface elevation. The house finish floor is 1.33' higher than the road at west end.

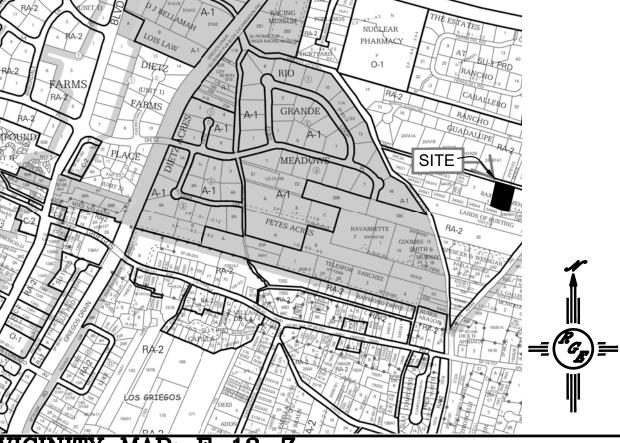
**HYDROLOGY SECTION APPROVED** anth Mar F13D036

PPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE WO (2) YEARS AFTER THE APPROAL DATE BY THE CITY IF NO UILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMEN

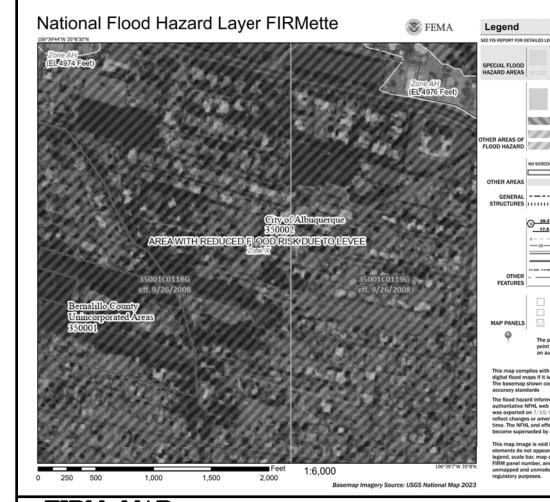


### **EROSION CONTROL NOTES:**

- 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
- 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-13-2



#### FIRM MAP:

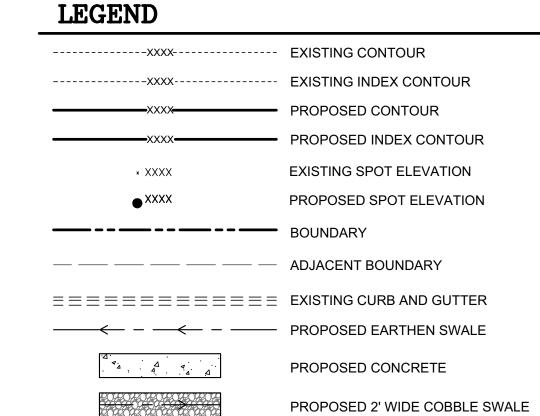
## **LEGAL DESCRIPTION:**

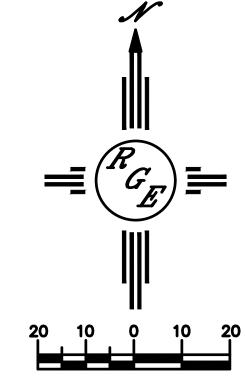
LOT 2 LAND BELONGING TO BAXTER & MEHL CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

- 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 PERMITED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.

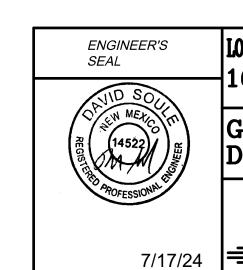
4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD

- DATUM 1988.
- 5. LONG TERM MAINTAINANCE OF ALL PONDS, SWALES AND OVERFLOWS IS REQUIRED
- 6. A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING





SCALE: 1"=20'



DAVID SOULE

P.E. #14522

# LOT 2 LAND BELONGING TO BAXTER & MEHL 1606 BAYITA LANE NW GRADING AND DRAINAGE PLAN

Rio Grande Lingineering PO BOX 93924 ALBUQUERQUE, NM 87199 (505) 321-9099

SHEET# C1 JOB#

DRAWN

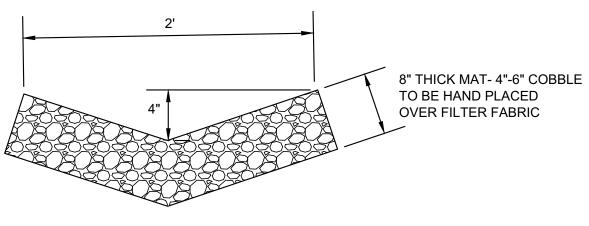
 $^{BY}$  DEM

DATE 7-16-24

1606 Bayita Lane .DWG

(SHOWN HATCHED) BELOW ADJACENT GRADE TO ENDSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY.

CONSTRUCT ALL SWALES AND EROSION PROTECTION



## **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.