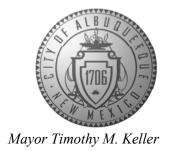
CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



January 27, 2023

Ronald R. Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

RE: Unser Drive-Thru Oil Change TR 4 Plat of TRS 1,2,3 &4 Paradise Plaza Cont 1.8131 AC Unser Blvd NW, Albuquerque Grading and Drainage Plan Engineers Stamp Date: 07/08/2022 Hydrology File: A11D018

Dear Mr. Bohannan:

Based upon the information provided in your submittal received 1/18/2023, the Grading & Drainage Plan is approved for Building Permit approval. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PO Box 1293

PRIOR TO CERTIFICATE OF OCCUPANCY:

Albuquerque

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

NM 87103

2. Please provide the executed paper Drainage Covenant (latest revision) printed on one-side only with Exhibit A and a check for \$25 made out to "Bernalillo County" for the stormwater quality ponds per Article 6-15(C) of the DPM to Hydrology for review. Once the review is done, Hydrology will send back an email stating our approval / comments.

www.cabq.gov

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 505-924-3695 or tchen@cabq.gov.

Sincerely,

Tiequan Chen, P.E.

Principal Engineer, Hydrology

Tieque Che

Planning Department, Development Review Services



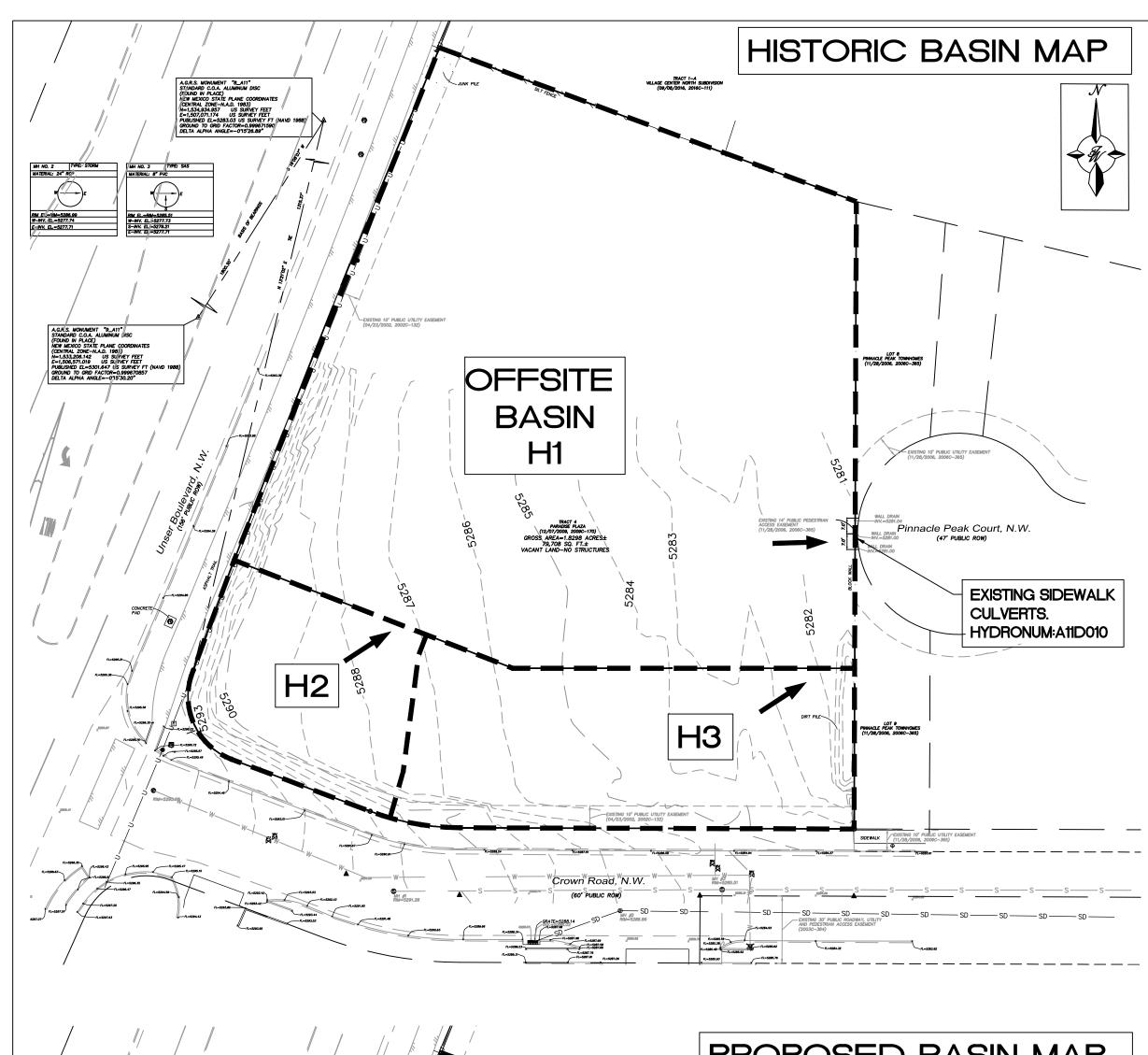
City of Albuquerque

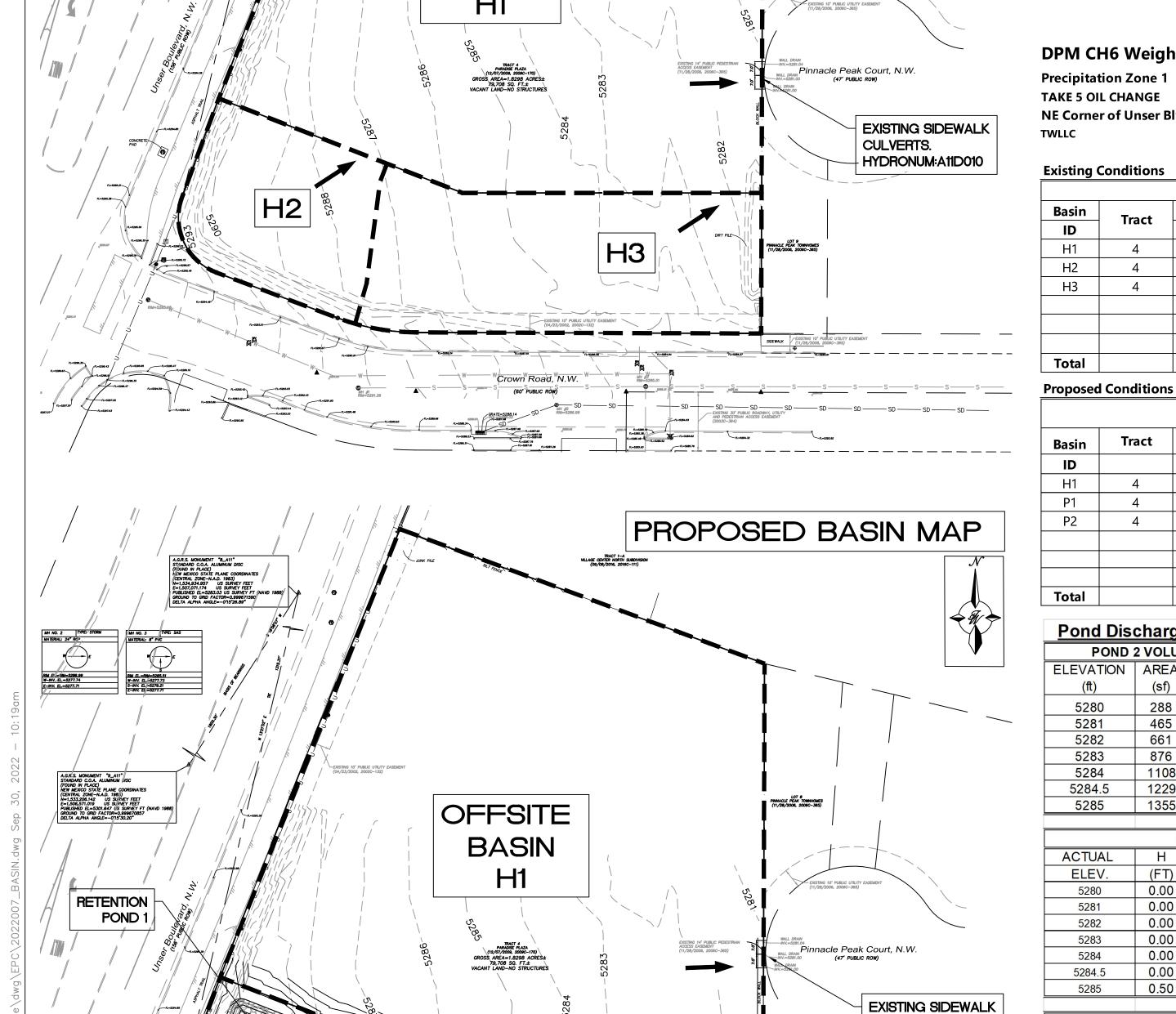
Planning Department

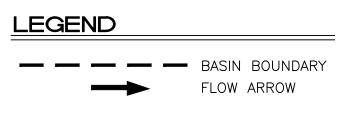
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

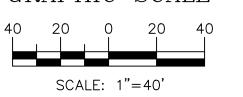
Hydrology File #		
OR Parcel UPC: 10110663834151		
s Noriega		
5-858-3100		
B SITE ADMIN SITE: X		
DRAINAGE		
L/ACCEPTANCE SOUGHT:		
PERMIT APPROVAL		
CERTIFICATE OF OCCUPANCY		
CONCEPTUAL TCL DRB APPROVAL		
RY PLAT APPROVAL		
SITE PLAN FOR SUB'D APPROVAL		
FOR BLDG PERMIT APPROVAL		
ΓAPPROVAL		
SE OF FINANCIAL GUARANTEE		
ON PERMIT APPROVAL		
ERMIT APPROVAL		
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FLOOD PLAN DEVELOPMENT PERMIT		
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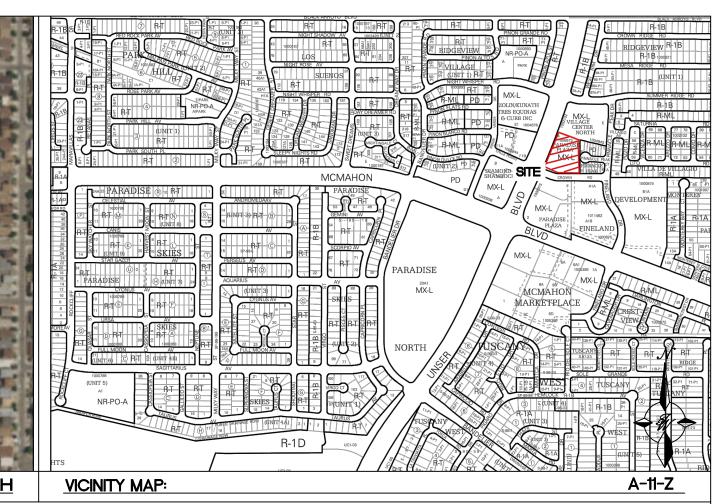




GRAPHIC SCALE







DPM CH6 Weighted E Method

Precipitation Zone 1 TAKE 5 OIL CHANGE

Tract

Tract

4

ID

H1

Н3

Total

Total

CULVERTS.

RETENTION POND 2

HYDRONUM:A11D010

NE Corner of Unser Blvd & Crown Rd, Albuquerque, NM.

Area

(acres)

1.31

0.18

0.33

Area

(acres)

1.31

Area

(sf)

56,866

8,005

14,587

Area

56,866

14,587 0.33

79,458 1.82

4 8,005 0.18

79,458 1.82

Equations:

Treatment A

100%

100%

100%

Treatment A

90%

0%

Basin Descriptions

(acres)

1.305

0.184

0.335

1.824

Basin Descriptions

(acres)

1.175

0.000

1.175

Retention Volume = Weighted E * Total Area + Impervious Area * (10 day - 6 hr) Preci

%

0%

0%

Treatment C

10%

42%

Treatment C

(acres)

0.000

0.000

0.000

0.000

(acres)

0.131

0.105

0.141

0.376

6 Hr Excess Precipitation, E (in.)						
Zone 1	100-Year	10-Year				
Ea	0.55	0.08				
Eb	0.73	0.22				
Ec	0.95	0.44				
Ed	2.24	1.24				

100-Year, 10-Day

Weighted E | Volume | Flow

100-Year, 10-Day

Weighted E | Volume | Flow

0.064

(ac-ft) cfs

0.060 | 2.01

0.008 0.28

0.015 0.52

0.084 2.809

0.075 1.20

0.174 4.014

1,460 Sq. Ft. 290 Sq. Ft.

2.5 Ft.

2,188 | Cubic Ft.

1,470 Cubic Ft.

Peak Discharge (cfs/acre)					
Zone 1	100-Year	10-Year			
Qa	1.54	0.3			
Qb	2.16	0.81			
Qc	2.87	1.46			
Qd	4.12	2.57			

(in)

0.550

0.550

0.550

0.590

1.698

0.079 1.505 0.034 0.63

RETENTION POND 1 VOLUME

Treatment D

(acres)

0.000

0.000

0.000

0.000

(acres)

0.000

0.273

Bottom Area

Depth of Pond **Provided Volume**

Required Volume

%

0%

0%

Treatment D

0%

43%

THE SUBJECT SITE IS CURRENTLY VACANT WITH GROWING VEGETATION. BASED ON THE TOPOGRAPHY, RUNOFF SURFACE FLOWS NORTH-EAST AND DISCHARGES INTO THREE SIDEWALK CULVERTS LOCATED ON THE WEST SIDE OF PINNACLE PEAK COURT. NW.

PROPOSED CONDITIONS

EXISTING CONDITIONS

THE DEVELOPED FLOWS WILL SURFACE FLOW INTO TWO RETENTION PONDS ONE LOCATED ON THE EAST AND THE OTHER TO THE WEST OF THE TAKE 5 OIL CHANGE. ROUGHLY ONE—THIRD OF THE SITE WILL DRAIN TO RETENTION POND 1 AND THE OTHER TWO-THIRDS WILL DRAIN TO RETENTION POND 2. THE RETENTION PONDS ARE DESIGNED TO RETAIN THE 100 YEAR - 10 DAY STORM EVENT.

ANY FLOWS BEYOND THAT WILL BE CONVEYED INTO A SURFACE STORM DRAIN SYSTEM, WHICH OUTFALLS INTO THE CROWN RD ROW.

	City of Albuquerque Planning Department	
	opment Review Services	
	ROLOGY SECTION	[
\mathbf{A}	PPROVED	
DATE:	1/27/2023	
BY:	gue Cha	
HydroTrans #	A11D018	
CONSTRUE ORDINANCE C THE CITY CORRECTIO	L OF THESE PLANS/REPORT SHALL NOT B D TO PERMIT VIOLATIONS OF ANY CITY OR STATE LAW, AND SHALL NOT PREVENT OF ALBUQUERQUE FROM REQUIRING N, OR ERROR OR DIMENSIONS IN PLANS, OR CONSTRUCTIONS. SUCH APPROVED PI	ſ

Top Area	1,229	Sq. Ft.
Bottom Area	288	Sq. Ft.
Depth of Pond	4.5	Ft.
Provided Volume	3,284	Cubic Ft.
Required Volume	3,283	Cubic Ft.
Required Volume	0.075	Ac Ft.

Area

(sq miles)

0.00204

0.00029

0.00052

0.00285

Area

(sq miles)

0.00204

0.00029

0.00052

0.00285

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

Treatment B

(acres)

0.000

0.000

0.000

0.000

(acres)

0.000

0.000

0.000

%

0%

0%

0%

Treatment B

0%

0%

0.000 0% 0.000 57%

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

	6 8 8 8	Required Volu	ıme	0.034	Ac Ft.
6.0	in	DATE:BY:	Pla Develo YDRO APPROVAL ONSTRUED INANCE OR RRECTION, OF	ty of Albuquerque unning Department pment Review Services OLOGY SECTION PPROVED 1/27/2023 A11D018 DF THESE PLANS/REPORT SHALL NOT BY OF PERMIT VOLATIONS OF ANY CITY STATE LAW, AND SHALL NOT PREVENT STATE LAW, AND SHALL NOT PREVENT OF REMEDIQUE FROM REQUIRING OR ERROR OR DIMENSIONS IN PLANS, CONSTRUCTIONS, SUCH APPROVED BY ANGED, MODIFIED OR ALTERED WITHO AUTHORIZATION.	E r
	1				

V: 1 \(\sum_{H: 1} \)

ENGINEER'S SEAL	•
OR BOL	4
DR. BOHANA MEXICO 7868	
PROPERTY OF THE PROPERTY OF TH	
07/08/2022	
RONALD R. BOHANNAN P.E. #7868	

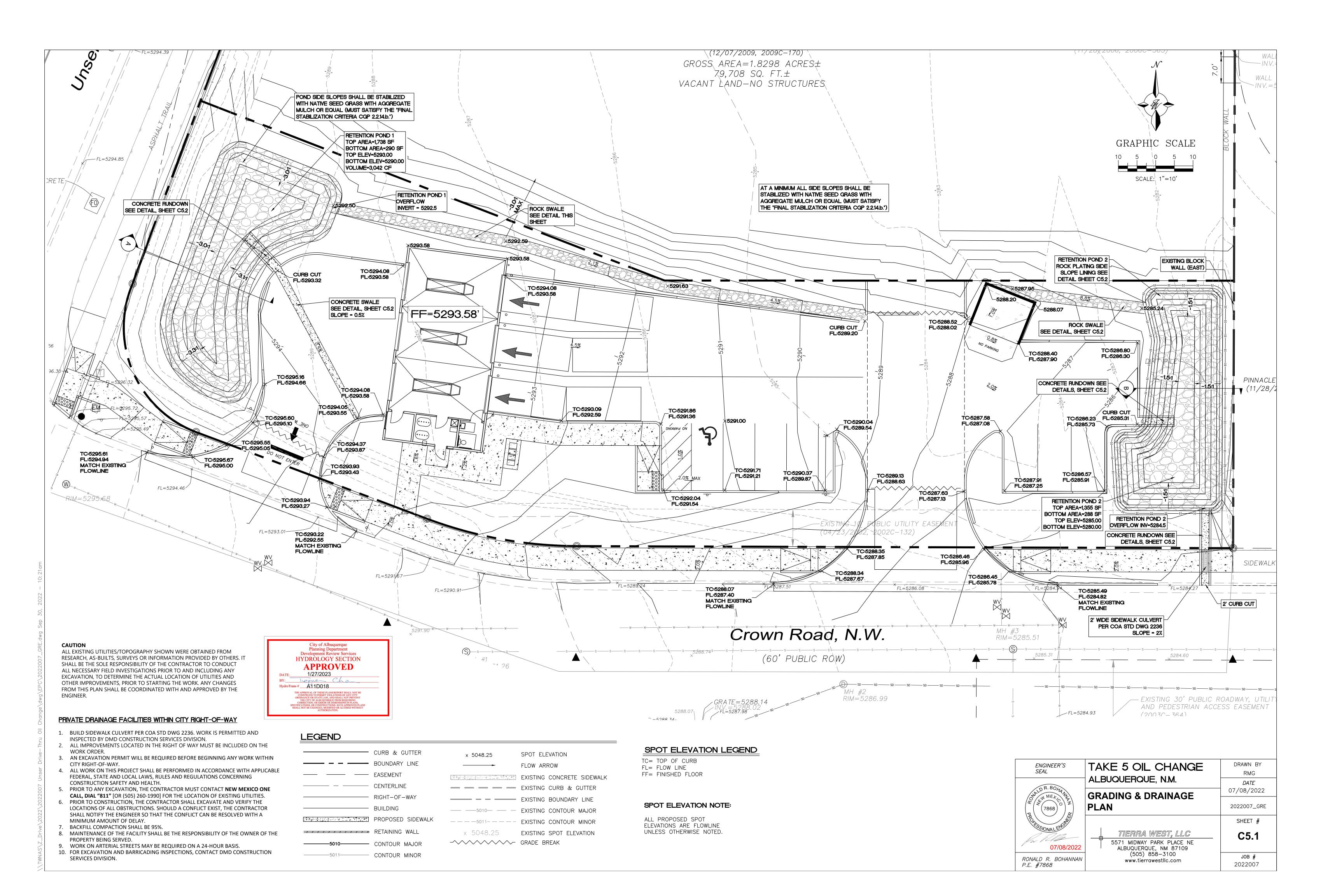
	TAKE 5 OIL CHANGE	DRAWN BY
	ALBUQUERQUE, N.M.	RMG
	ALDOGOLITGOL, IV.IVI.	DATE
12	BASIN MAP	07/08/2022
宝艺 2		2022007_BASIN
A)		SHEET #
3/2022	TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109	C4
ANNAN	(505) 858-3100 www.tierrawestllc.com	JOB #
		2022007

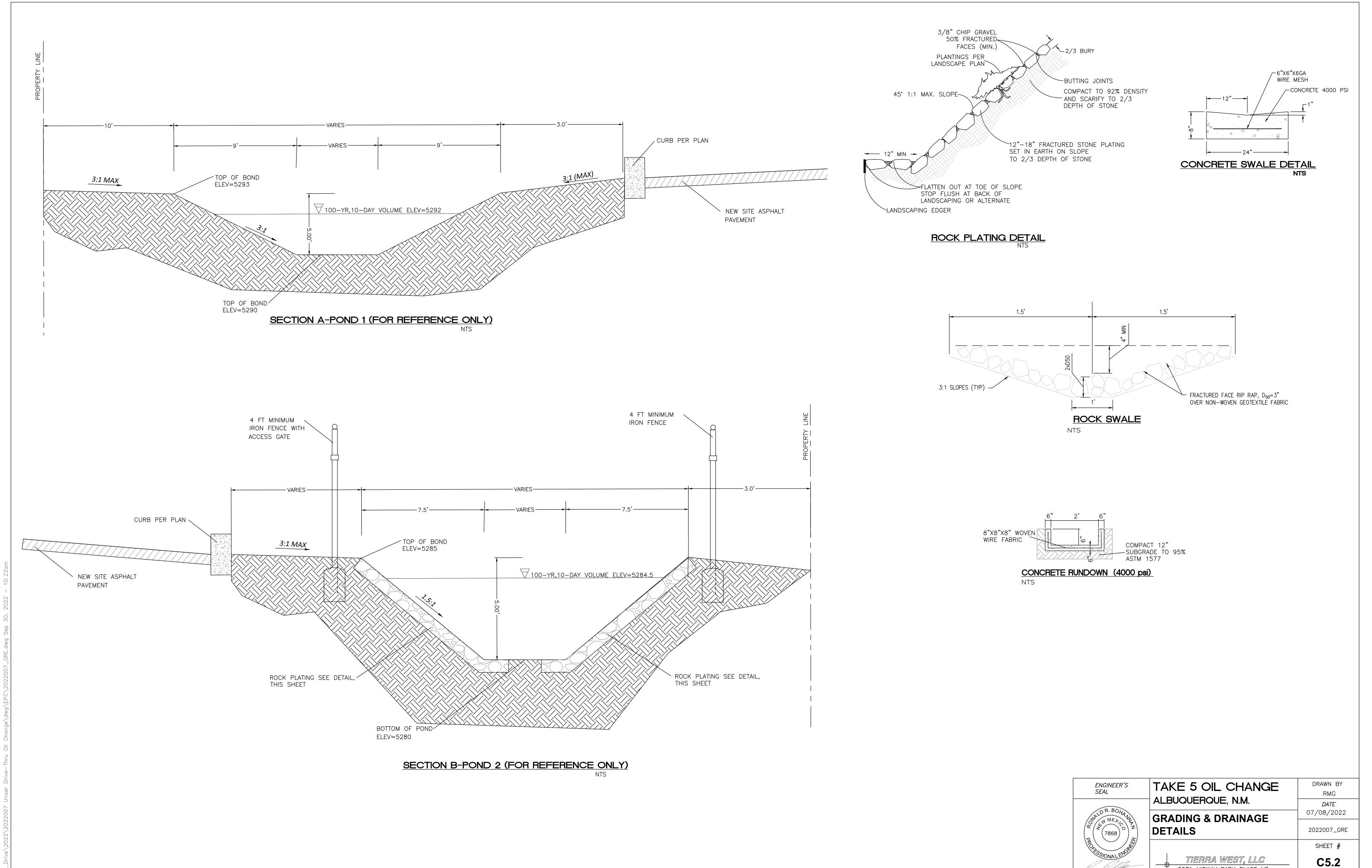
nd Dis	charge	-Weir Ca	alculations
		ME CALCUI	
LEVATION (ft)	AREA (sf)	VOLUME (cf)	CUMULATIVE VOLUME (cf)
5280	288	0	0
5281	465	376.5	377
5282	661	563	940
5283	876	768.5	1708
5284	1108	992	2700
5284.5	1229	584.25	3284
5285	1355	646	3930
	D	OND 2 STO	RAGE

	POND 2 STORAGE					
ACTUAL	Η	VOLUME	Q	VOLUME		
ELEV.	(FT)	(CF)	(CFS)	(AC-FT)		
5280	0.00	0	0.00	0.0000		
5281	0.00	377	0.00	0.0086		
5282	0.00	940	0.00	0.0216		
5283	0.00	1708	0.00	0.0392		
5284	0.00	2700	0.00	0.0620		
5284.5	0.00	3284	0.00	0.0754		
5285	0.50	3930	1.91	0.0902		

	Pond 2 \	<i>N</i> eir Equa	tion
Q =	CLH^(3	/2)	
C =	2.7		
L (FT) =	2		
H (Ft) =	Head		
Q (CFS)=	Flow		

V: 1 \(\triangle \)
H: 1 POND 1 RIP-RAP SWALE Project Description Friction Method Discharge Input Data 0.041 0.020 ft/ft Roughness Coefficient Channel Slope Normal Depth 0.330 H:V Left Side Slope Right Side Slope 0.330 H:V 1.00 ft Bottom Width





5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505) 858-3100

www.tierrawestllc.com

JOB #

2022007

07/08/2022

RONALD R. BOHANNAN P.E. #7868