CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director



February 8, 2022

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

RE: The Wymont

4315 Wyoming Blvd NE Grading and Drainage Plans Engineer's Stamp Date: 01/27/22

Hydrology File: G19D004

Dear Mr. Bohannan:

PO Box 1293 Based upon the information provided in your submittal received 01/06/2022, the Grading &

Drainage Plans are approved for Grading Permit and Work Order.

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, 924-3420) 14 days prior to

NM 87103 any earth disturbance.

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

www.cabq.gov

Renée C. Brissette

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: Wymont	Building Permit #:	Hydrology File #:
DRB#:	EPC#:	Work Order#:
Legal Description: (LAND ONLY) LT 1-A-1 PLAT FOR L	OTS 1-A-1 AND 5-A-1 LA MIRADASUBDIVISION (BEIN	IG COMPRISED OF LOTS 1-A AND 5-A LA MIRADASUBDIVISION)
City Address: 4315 Wyoming Blvd NE Albu		
Applicant: Tierra West, LLC		Contact: Jonanthan Niski
Address: 5571 Midway Park Place NE Albud		
Phone#: 505-858-3100	Fax#: 505-858-1118	E-mail: jniski@tierrawestllc.com
Other Contact:		Contact:
Address:		
Phone#:	Fax#:	E-mail:
TYPE OF DEVELOPMENT: PLAT	(# of lots)RESIDENCE	DRB SITE X_ADMIN SITE
IS THIS A RESUBMITTAL? Yes	No	
DEPARTMENT TRANSPORTATION	X HYDROLOGY/DRAIN	AGE
Check all that Apply:		PROVAL/ACCEPTANCE SOUGHT:
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATIO PAD CERTIFICATION	CERTIFI	NG PERMIT APPROVAL CATE OF OCCUPANCY INARY PLAT APPROVAL
CONCEPTUAL G & D PLAN X GRADING PLAN	SITE PL	AN FOR SUB'D APPROVAL AN FOR BLDG. PERMIT APPROVAL
DRAINAGE REPORT DRAINAGE MASTER PLAN		PLAT APPROVAL
FLOODPLAIN DEVELOPMENT PERMIT ELEVATION CERTIFICATE CLOMB LOWB	SIA/ KEI	LEASE OF FINANCIAL GUARANTEE ATION PERMIT APPROVAL
CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TC	L) GRADIN SO-19 A	IG PERMIT APPROVAL PPROVAL
TRAFFIC IMPACT STUDY (TIS)		PERMIT APPROVAL
STREET LIGHT LAYOUT	GRADIN	IG/ PAD CERTIFICATION
OTHER (SPECIFY) PRE-DESIGN MEETING?		RDER APPROVAL
TRU DESIGNATION.	CLOMR/ FLOODE	LOMR PLAIN DEVELOPMENT PERMIT
		(SPECIFY)
DATE SUBMITTED: 01.06.2022	By: Jonathan Niski	
COA STAFF:	ELECTRONIC SUBMITTAL RECEIVI	ED:

FEE PAID:_____



TIERRA WEST, LLC

January 5, 2022

Renée C. Brissette, P.E. CFM, Hydrology City of Albuquerque, Planning Department PO BOX 1293 Albuquerque, NM 87103

RE: The Wymont

4315 Wyoming Blvd NE

Grading and Drainage Plans (G19D004)

Dear Ms. Brissette,

Per the correspondence dated December 27, 2021, please find the following responses addressing the comments listed below:

- This project already has Site Plan for Building Permit approval. (Letter dated 8/4/21) Once the Work
 Order and Grading are complete, a pad certification submittal will need to be approved by Hydrology for
 the townhomes so that individual Building Permits can then be issued for each townhome lot. We
 understand pad certifications will be required for the townhome individual Permits.
- 2. Overall the Grading & Drainage Plan seems to lack a company review or quality control (QA/QC). This review typically ensures that the line weights and text used creates clarity and accuracy which helps both the reviewer and contractor understand the scope of the project. Currently the Grading & Drainage Plan has line weights for the proposed and existing work about the same weight which makes it difficult to tell what is to be constructed. The proposed spot elevations should use some type of terminology which should also be added to the Legend. For example, TP (top of pavement), FL (flow line), TC (top of curb), TW (top of wall), etc. Please ensure that all hatching is called out in the Legend. The plans were broken up to show an overall plan, the residential grading plan and the commercial grading plans at 1 to 20 scale. The line work was cleaned up and a note placed on the plan stating all elevations are flowline unless otherwise stated on the plan.
- 3. GR-1. This is currently very congested and difficult to read. Please, make this sheet just an overall Grading Plan with added pipe sizes, detention pond labeled, proposed contours, and line work with text showing which pipes and grading are to done under which of the two work orders. The sheet scale was increased to 1"=30' for better readability.
- 4. GR-1. Please add a note, "Side slopes need to be stabilized with Native Grass Seed (per City Spec 1012) with Aggregate Mulch or equal (Must satisfy the "Final Stabilization criteria" CGP 2.2.14.b.)". This is for the water quality pond. This note was added to the plan
- 5. Please make two Grading Plans at 1" = 20'. This will make the grading more readable and less congested. A scale of 1"=20' is too large for this type of site. The plans were broken up to a scale of 1"=30' for better readability.
- 6. GR-2. As with comment #4, this should be two storm pipe plans at 1" = 20'. Please add the word "Privately maintained" to all on-site storm pipes. This will also include the 24" RCP from the pond outfall structure to the new manhole in La Mirada Lane. The storm sewer plans were set at a scale of 1"=30'. The improvements on La Mirada are included on its own sheet.
- 7. GR-3. Please relabel this as Master Drainage Plan. This plan was retitled as the Master Drainage Plan.

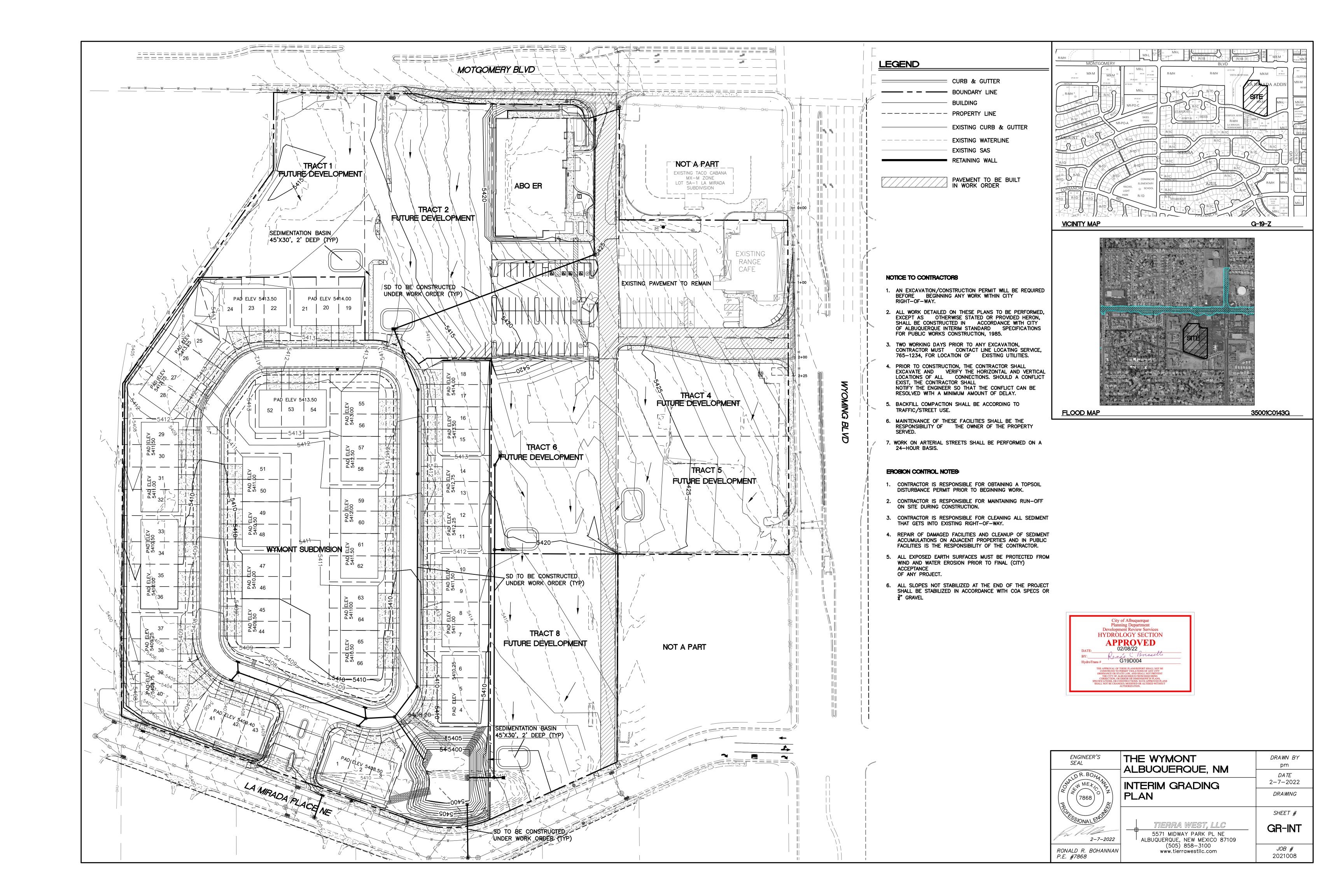
- 8. GR-3. The Existing Drainage Area "A" drains to the west and then to the southwest as was shown. The Proposed Drainage Area "B" goes to the southwest to a proposed inlet structure (to be built in the commercial work order) and the Proposed Drainage Area "C" does not drain to Montgomery as you tried to indicate but the area currently goes to the west as outlined in the Existing Drainage Area "A". So how does this drainage area get to the proposed detention pond to the south? Flow arrows were added to the drainage plan to show direction of flow. Drainage Area "C" cannot drain to the pond due to site constraints and existing conditions. A Water Quality Waiver is included with this resubmittal.
- 9. GR-3. There is a statement about providing for a volume of 0.225 AC-FT. Please provide the hydrology routing for the detention pond as outlined in the DPM Article 6-2 Hydrology. A Pond Calculation Table was added to Sheet GR-4.
- 10. GR-4. Please provide the weir calculations, per DPM Article 6-16(A), for the concrete channel(s). A coefficient of 2.7 is typically used for the weir equation Q = CLH2/3. The weir calculations were updated with the coefficient of 2.7 and they are shown on Sheet GR-2.
- 11. GR-4. Outfall Detail. Please provide the bottom of pond elevation, water quality elevation, top of pond elevation, and the elevation of the beehive top. **This information is now included on the outfall detail now found on Sheet GR-8.**
- 12. GR-4. Please provide the orifice calculation for the 7/8" orifice plate. The orifice plate reference was deleted as no orifice plate is required for this project.

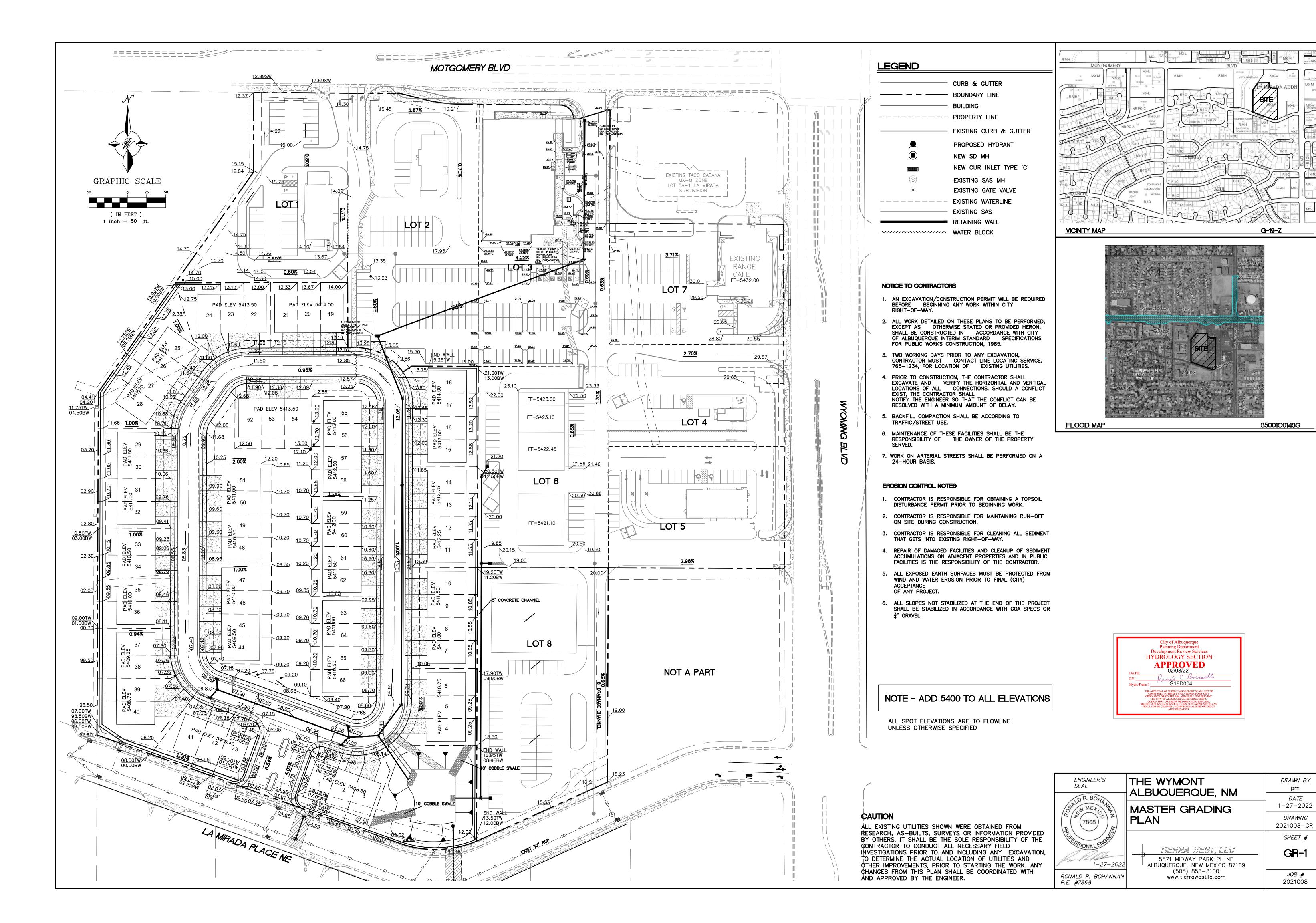
If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely,

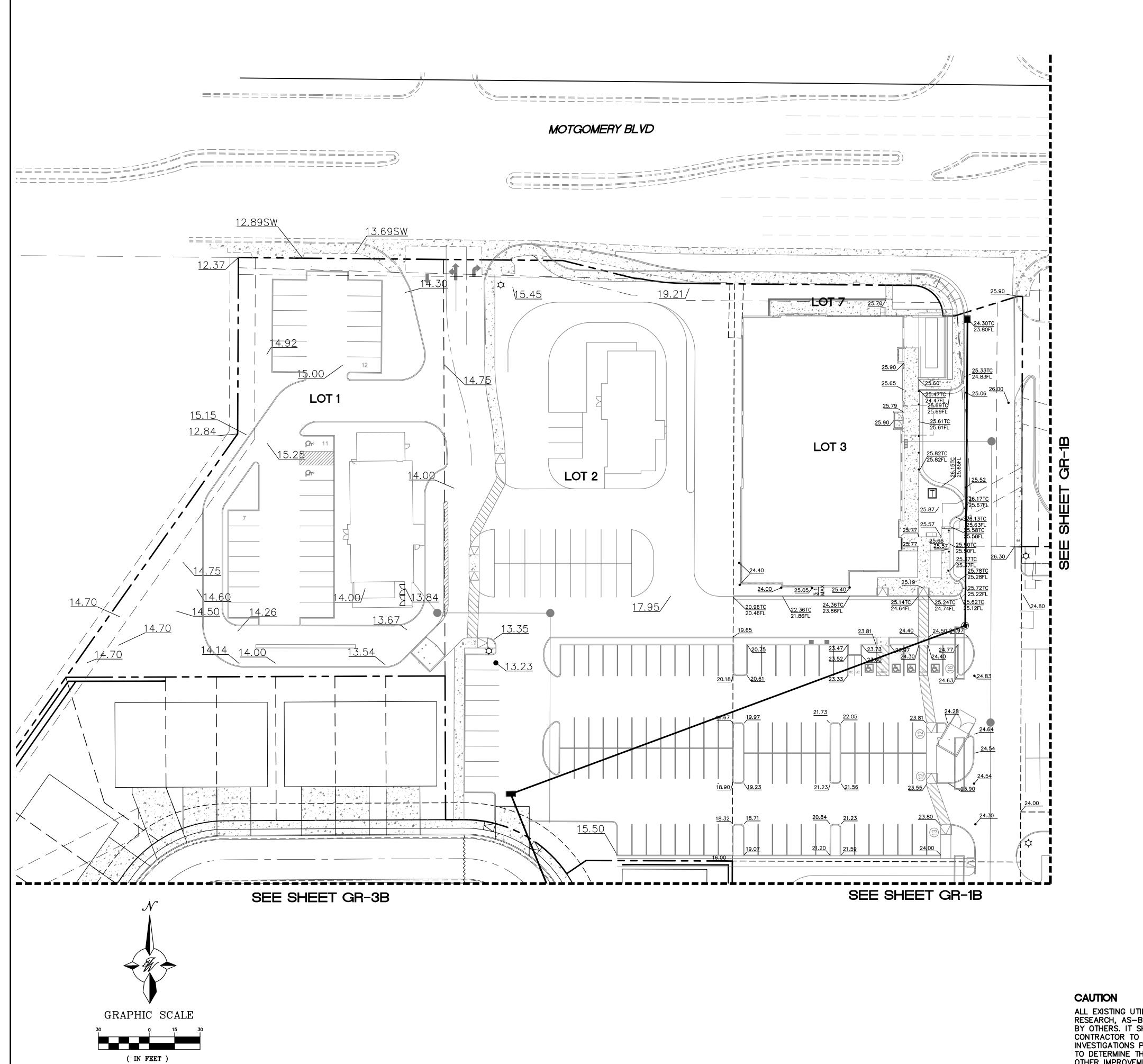
Ronald R. Bohannan, P.E.

JN: 2021008 RRB/jn/mc

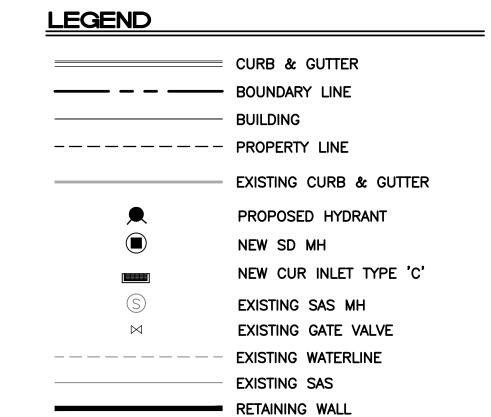




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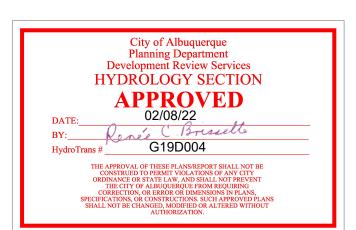
1 inch = 30 ft.



----- WATER BLOCK

NOTE - ADD 5400 TO ALL ELEVATIONS

ALL SPOT ELEVATIONS ARE TO FLOWLINE UNLESS OTHERWISE SPECIFIED



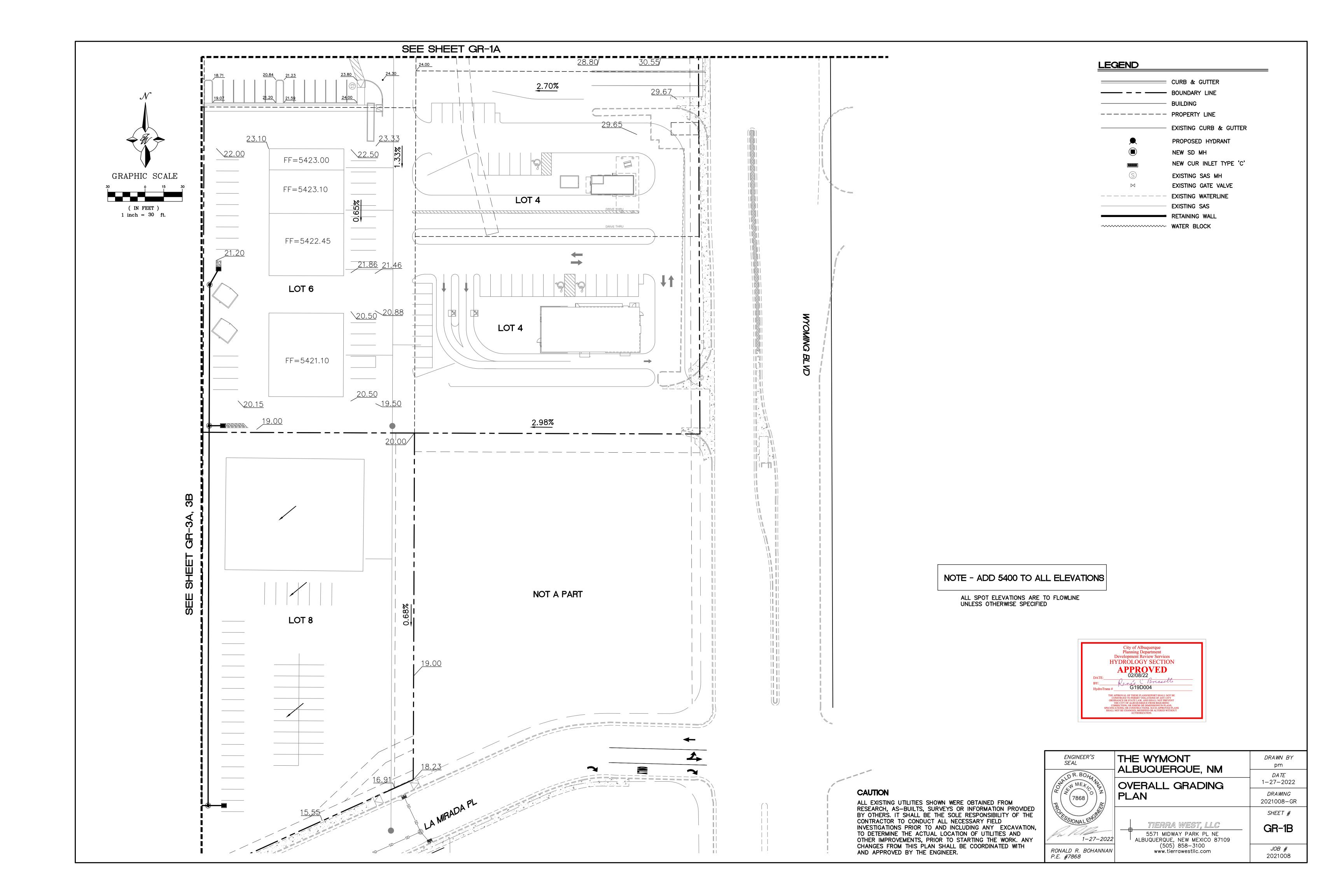
ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

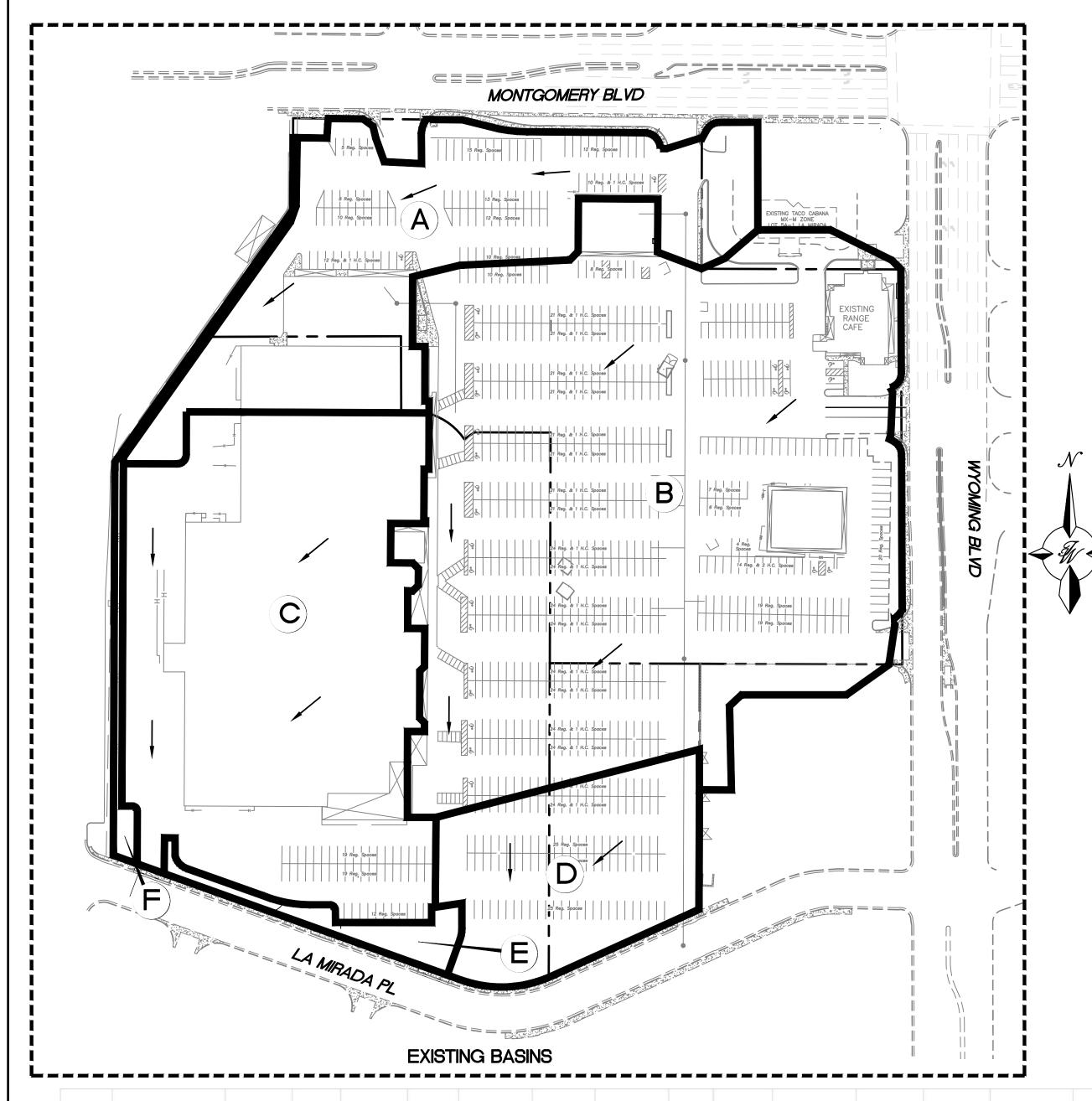
ENGINEER'S SEAL	T
DR. BOHANA Z	F
THIS SIONAL ENGINE 1-27-2022	_
RONALD R. BOHANNAN P.E. #7868	

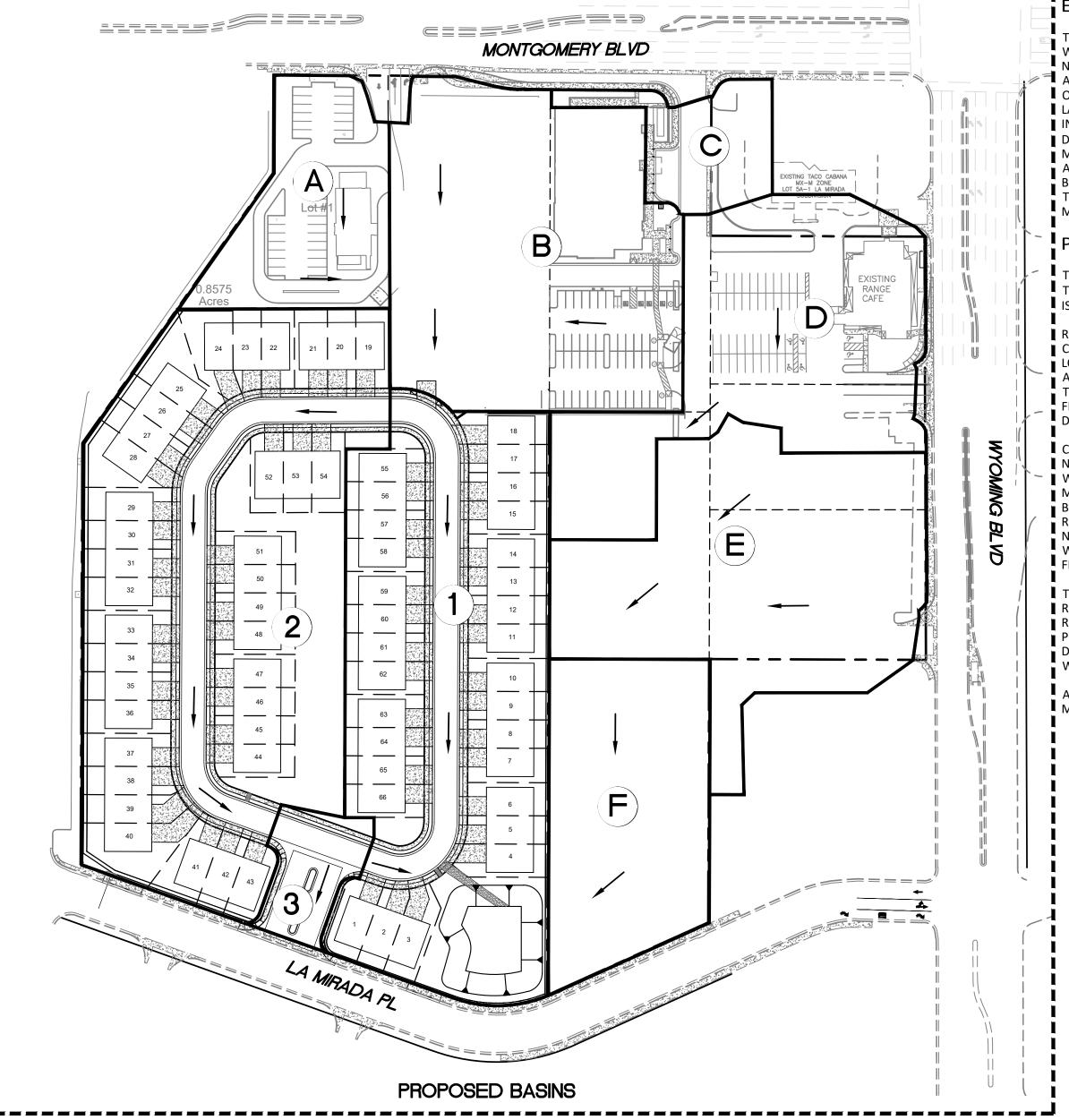
e's	THE WYM
ANNAN &	OVERALL PLAN
27-2022	TIERF 5571 MI ALBUQUERQU

THE WYMONT ALBUQUERQUE, NM	DRAWN BY
OVERALL GRADING	<i>DATE</i> 1–27–2022
PLAN	<i>DRAWING</i> 2021008-GR
	SHEET #
TIERRA WEST, LLC 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109	GR-1A
(505) 858-3100 www.tierrawestllc.com	JOB #

2021008







	THE RELIES VALUE OF THE PARTY.	
Weighted	I E Meth	od

Peak Discharge (cfs/acre)

Zone 3 | 100-Year | 10 - Year

1.84

2.49

3.17

4.49

 Q_b

 Q_c

 Q_d

0.51

1.07

1.69

2.81

Existing	Basins															
												100-Year			10-Year	
Basin	Area	Area	Trea	tment A	Trea	tment B	Treat	ment C	Trea	tment D	Weighted E	Volume	Flow	Weighted E	Volume	Flow
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(in)	(ac-ft)	cfs	(in)	(ac-ft)	cfs
Α	114,831	2.64	0%	0	7%	0.18	0%	0.00	93%	2.45	2.460	0.540	11.47	1.549	0.340	7.09
В	314,923	7.23	0%	0	5%	0.36	0%	0.00	95%	6.87	2.494	1.503	31.74	1.575	0.949	19.69
С	178,480	4.10	0%	0	0%	0.00	0%	0.00	100%	4.10	2.580	0.881	18.40	1.640	0.560	11.51
D	57,852	1.33	0%	0	21%	0.28	0%	0.00	79%	1.05	2.219	0.246	5.41	1.367	0.151	3.25
E	9,747	0.22	0%	0	0%	0.00	100%	0.22	0%	0.00	1.090	0.020	0.71	0.520	0.010	0.38
F	7,497	0.17	0%	0	100%	0.17	0%	0.00	0%	0.00	0.860	0.012	0.43	0.340	0.005	0.18
		15.69										3.202	68.15			

Proposed Basins

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

												100-Year			10-Year	
Basin	Area	Area	Trea	tment A	Trea	tment B	Treat	ment C	Trea	tment D	Weighted E	Volume	Flow	Weighted E	Volume	Flow
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(in)	(ac-ft)	cfs	(in)	(ac-ft)	cfs
Α	36,215	0.83	0%	0	15%	0.12	0%	0.00	85%	0.71	2.322	0.161	3.48	1.445	0.100	2.12
В	98,174	2.25	0%	0	15%	0.34	0%	0.00	85%	1.92	2.322	0.436	9.44	1.445	0.271	5.74
С	18,240	0.42	0%	0	15%	0.06	0%	0.00	85%	0.36	2.322	0.081	1.75	1.445	0.050	1.07
D	79,808	1.83	0%	0	15%	0.27	0%	0.00	85%	1.56	2.322	0.355	7.68	1.445	0.221	4.67
E	89,758	2.06	0%	0	15%	0.31	0%	0.00	85%	1.75	2.322	0.399	8.63	1.445	0.248	5.25
F	53,725	1.23	0%	0	15%	0.19	0%	0.00	85%	1.05	2.322	0.239	5.17	1.445	0.149	3.14
1	131,235	3.01	0%	0	60%	1.81	0%	0.00	40%	1.21	1.548	0.389	9.91	0.860	0.216	5.32
2	165,562	3.80	0%	0	57%	2.17	0%	0.00	43%	1.63	1.600	0.507	12.73	0.899	0.285	6.91
Park	27,059	0.62	0%	0	100%	0.62	0%	0.00	0%	0.00	0.860	0.045	1.55	0.340	0.018	0.66
3	11,770	0.27	0%	0	10%	0.03	0%	0.00	90%	0.24	2.408	0.054	1.16	1.510	0.034	0.71
		15.71		Y Comments						10.42		2.619	59.96			
Equations	<u>:</u>															

0.18

0.34

0.52

1.64

Excess Precipitation, E (inches)

Zone 3 100-Year 10 - Year

0.67

0.86

1.09

2.58

Ea

 E_b

1	18	0.80	1.77	0.375	9.42	6.36	
2	18	0.80	1.77	0.375	9.42	6.37	
3	24	0.80	3.14	0.500	20.29	12.73	
4	18	0.80	1.77	0.375	9.42	4.95	
5	18	0.80	1.77	0.375	9.42	4.96	
6	30	0.70	4.91	0.625	34.41	22.64	
7	30	0.80	4.91	0.625	36.79	35.56	
8	24	1.00	3.14	0.500	22.68	12.92	
9	24	1.00	3.14	0.500	22.68	12.92	
10	24	1.00	3.14	0.500	22.68	12.92	
11	24	1.00	3.14	0.500	22.68	12.92	
12	24	14.75	3.14	0.500	87.12	21.48	
13	18	2.00	1.77	0.375	14.90	5.17	
14	24	2.51	3.14	0.500	35.94	16.31	/
15	18	2.00	1.77	0.375	14.90	8.63	- 13/2

1.77

1.77

3.14

0.375

0.375

0.500

(%)

4.19

4.43

6.50

Pipe Capacity

Area R Q Provided Q Required Velocity

21.56

22.17

57.83

3.60

3.60

4.05 2.80

2.81 4.61

7.24 4.11

4.11

4.11 4.11 6.84 2.93

5.19 4.88

4.35

4.35

18.16

7.68

7.68

57.05

Manning's Equation: $Q = 1.49/n * A * R^{(2/3)} * S^{(1/2)}$

> A = Area R = D/4

18

24

S = Slope

n = 0.013

EXISTING DRAINAGE:

THIS SITE IS CURRENTLY VACANT SHOPPING CENTER AND IS LOCATED ON THE SOUTHWEST CORNER OF WYOMING BOULEVARD AND MONTGOMERY BOULEVARD. THE SITE IS BOUNDED BY ROADS ON THE NORTH, SOUTH AND EAST SIDE AND A MULTIFAMILY DEVELOPMENT ON THE WEST SIDE AND CONTAINS APPROXIMATELY 15.69 ACRES. THE SITE DRAINS FROM EAST TO WEST WITH MOST OF IT DRAINING ■ ONTO AN EXISTING DETENTION POND. A SMALL AMOUT OF FLOW ENTERS MONTGOMERY BLVD. FROM ■ LANDSCAPED AREAS AND ENTRANCES. THE REMAINDER OF THE SITE DRAINS INTO AN EXISTING DROP ■ INLET LOCATED AT THE SOUTHWEST ENTRANCE. ACCORDING TO AN APPROVED GRADING AND ■ DRAINAGE PLAN (G-19/D4) COMPLETED BY JEFF MORTENSEN AND ASSOCIATES THE EXISTING POND ■ MAY BE ELIMINATED AND ALL FLOW DISCHARGED TO THE EXISTING STORM SEWER IN HENDRIX AVENUE. THOSE IMPROVEMENTS WERE NEVER COMPLETED AND THE POND HAS REMAINED IN PLACE. BASED ON THE REVISED DRAINAGE VALUES IN THE CURRENT DPM THE TOTAL FLOW DISCHARGED FROM THIS SITE IS 68.15 CFS. THE SITE IS NOT LOCATED WITH IN A FLOOD PLAIN AS SHOWN ON THE FIRM MAP. THERE ARE NOT OFFSITE FLOWS THAT ENTER THE SITE.

PROPOSED DRAINAGE:

THE SITE IS BEING SUBDIVIDED INTO A COMMERCIAL CENTER AND A RESIDENTIAL NEIGHBORHOOD. THE RESIDENTIAL NEIGHBORHOOD IS DIVIDED INTO THREE BASINS (1-3) WHILE THE COMMERCIAL AREA ■ IS DIVIDED INTO SIX BASINS (A-F).

■ RESIDENTIAL BASINS 1 AND 2 WILL DRAIN FROM NORTH TO SOUTH IN WYMONT CIRCLE AND BE lacksquare Collected in proposed drop inlets. That water will be conveyed to a water quality pond LOCATED IN THE SOUTHEAST CORNER OF THE NEIGHBORHOOD. BASIN 3 CONSISTS OF THE ENTRANCE AND WILL DRAIN A SMALL AMOUNT OF FLOW TO BE COLLECTED IN DROP INLETS IN LA MIRADA. DUE TO THE GRADES BETWEEN THE NEIGHBORHOOD AND LA MIRADA THERE IS NO WAY TO CAPTURE THIS FLOW AND IT WILL FOLLOW THE SAME DRAINAGE PATTERN AS EXISTS ALONG THE STREET TODAY DISCHARGING 1.16 CFS.

■ COMMERCIAL BASIN "A" AND "B" WILL DRAIN SOUTH TO A PROPOSED DROP INLET LOCATED JUST ■ NORTH OF WYMONT CIRCLE. THOSE FLOWS WILL BE CONVEYED THROUGH STORM SEWER TO THE lacksquare Water Quality pond. Basin "C" will discharge to a proposed drop inlet at the entrance on lacktriangle MONTGOMERY AND DRAIN VIA STORM SEWER TO THE DROP INLET THAT CAPTURES BASINS "A" & "B". BASIN "D" WILL DRAIN TO A PROPOSED DROP INLET LOCATED NEAR THE NORTHEAST CORNER OF THE RESIDENTIAL NEIGHBORHOOD. BASIN "E"WILL DRAIN TO ANOTHER PROPOSED DROP INLET LOCATED NEAR THE MIDDLE OF THE WEST PROPERTY LINE OF THE RESIDENTIAL NEIGHBOR HOOD AND BASIN "F' WILL DRAIN TO A PROPOSED DROP INLET LOCATED NEAR THE WATER QUALITY POND. ALL OF THOSE FLOWS WILL BE CONVEYED VIAL STORM SEWER TO THE WATER QUALITY POND.

THE WATER QUALITY POND IS SIZED TO CONTAIN THE REQUIRED VOLUME FROM ALL OF THE RESIDENTIAL AND COMMERCIAL BASINS. BASED ON HE CURRENT REQUIREMENTS, THE POND WILL ■ RETAIN A VOLUME OF 0.225 AC-FT. A WATER QUALITY OUTLET STRUCTURE WILL BE PROVIDED IN THE POND AND CONNECT TO THE EXISTING STORM SEWER LOCATED IN LA MIRADA. THE TOTAL FLOW DISCHARGED TO THE LA MIRADA STORM SEWER WILL BE 57.05 CFS WHICH IS 11.10 CFS LESS THAN WHAT IS CURRENTLY DISCHARGED TO THE SYSTEM.

ALL OF THE STORM SEWER, DROP INLETS AND WATER QUALITY POND WILL REMAIN PRIVATE AND ■ MAINTAINED BY THE RESIDENTIAL HOA AND COMMERCIAL DEVELOPMENT AGREEMENTS.

Channel Capacity

Weir Equation:

C = 2.70

L= Length of weir H = Height of Weir

Off Site Curb Opening

 $\mathbf{Q} = 2.70 \times 20 \times 0.50^{3/2}$

Q = 19.09 cfs < Q = 13.39 cfs

Pond Concrete Channel

 $\mathbf{Q} = 2.70 * 6 * 0.50^{3/2}$

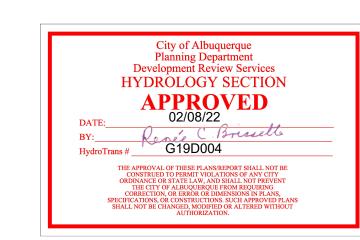
Q = 5.73 cfs

Park Curb Opening

 $\mathbf{Q} = 2.70 \cdot 2 \cdot 0.50^{3/2}$

P.E. #7868

Q = 1.91 cfs < Q = 1.55 cfs



ENGINEER'S SEAL	THE WYMONT ALBUQUERQUE
D R. BOHANA D Z 7868 D Z	WYMONT SUBDI MASTER DRAINAGI
1-27-2022	TIERRA WEST, 5571 MIDWAY PARK
RONALD R. BOHANNAN	ALBUQUERQUE, NEW MEX (505) 858-310 www.tierrawestllc.c

E, NM IVISION **E PLAN**

T, LLC K PL NE EXICO 87109

www.tiérrawestllc.com

GR-2 JOB # 2021008

DRAWN BY

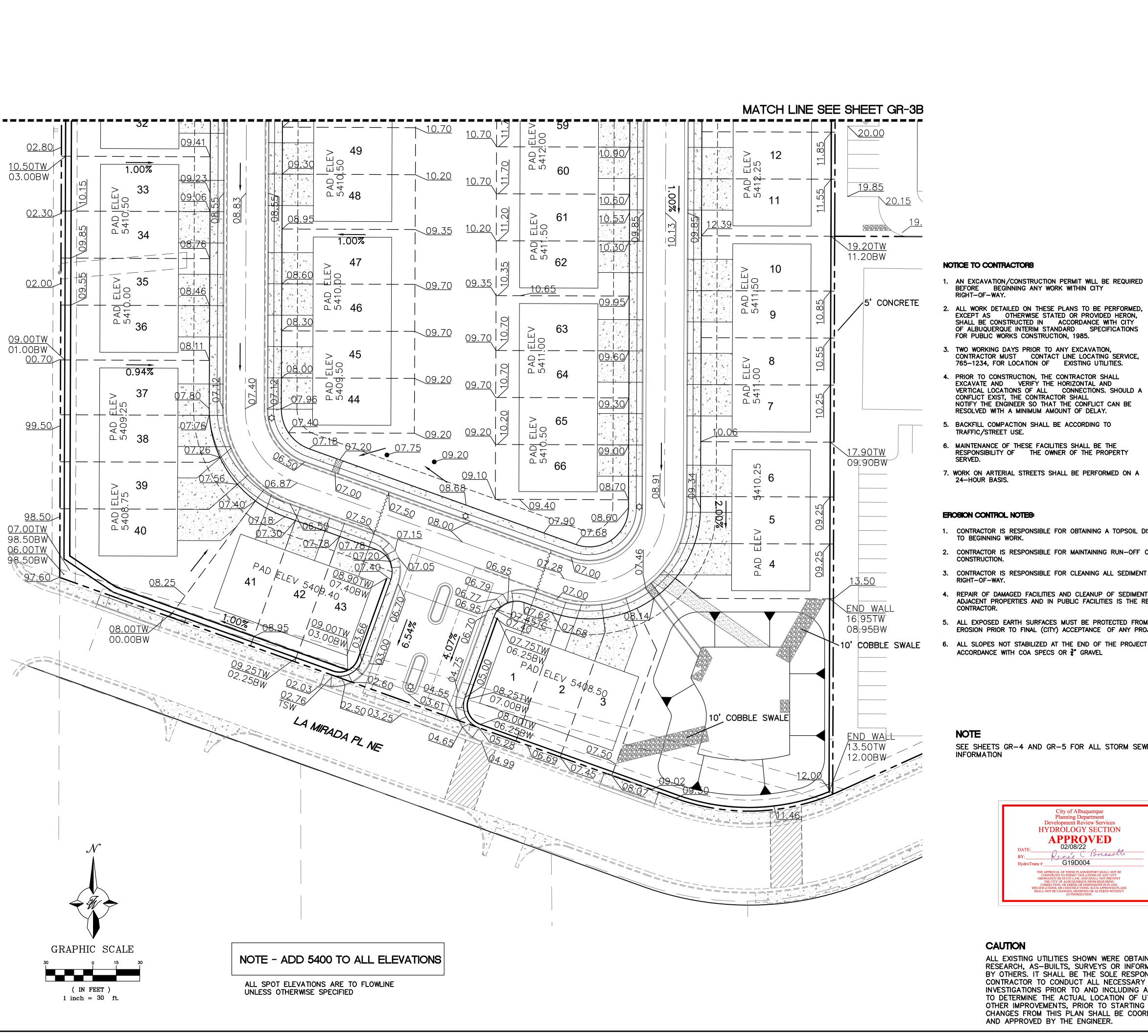
DATE

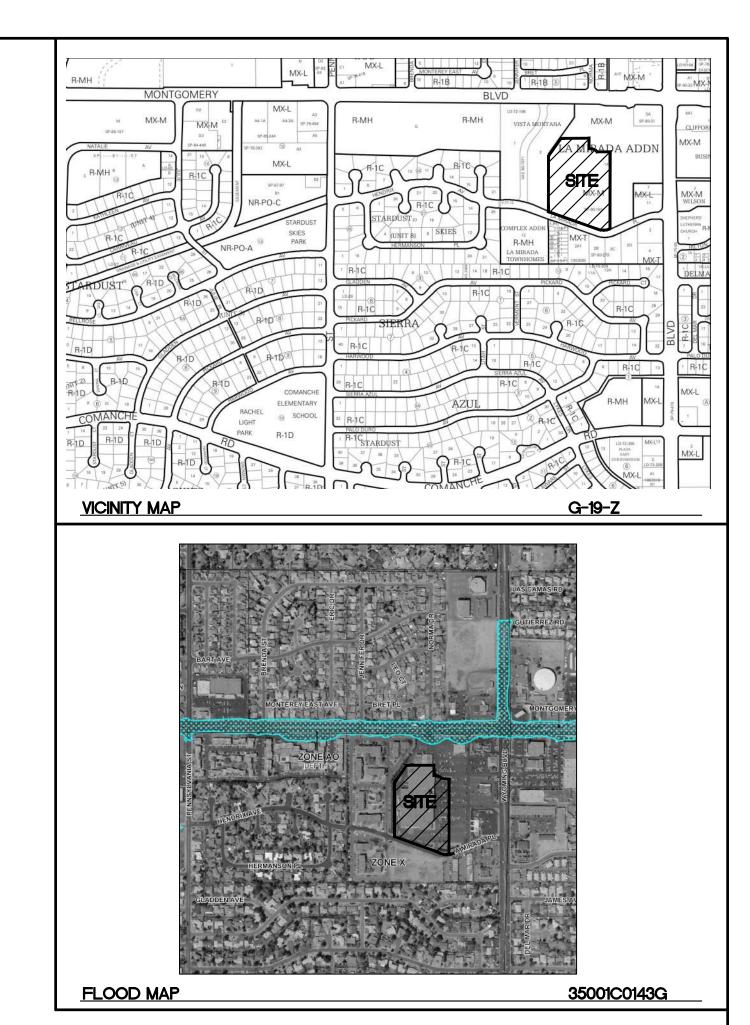
1-27-2022

DRAWING

2021008-GR

SHEET #

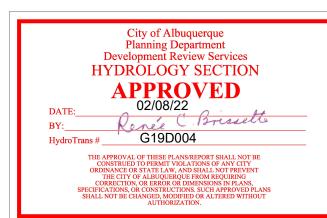




EROSION CONTROL NOTES:

- . CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR
- 2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING
- 3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING
- 4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE
- 5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.
- 6. ALL SLOPES NOT STABILIZED AT THE END OF THE PROJECT SHALL BE STABILIZED IN ACCORDANCE WITH COA SPECS OR 3" GRAVEL

SEE SHEETS GR-4 AND GR-5 FOR ALL STORM SEWER



ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

LEGEND	
	CURB & GUTTER
	BOUNDARY LINE
	BUILDING
	EXISTING CURB & GUTTER
_	PROPOSED HYDRANT
	NEW SD MH
	NEW CUR INLET TYPE 'C'
S	EXISTING SAS MH
\bowtie	EXISTING GATE VALVE
	EXISTING WATERLINE
	EXISTING SAS
	RETAINING WALL
	WATER BLOCK

DRAWN BY pm DATE 1-27-2022

DRAWING

2021008-GR

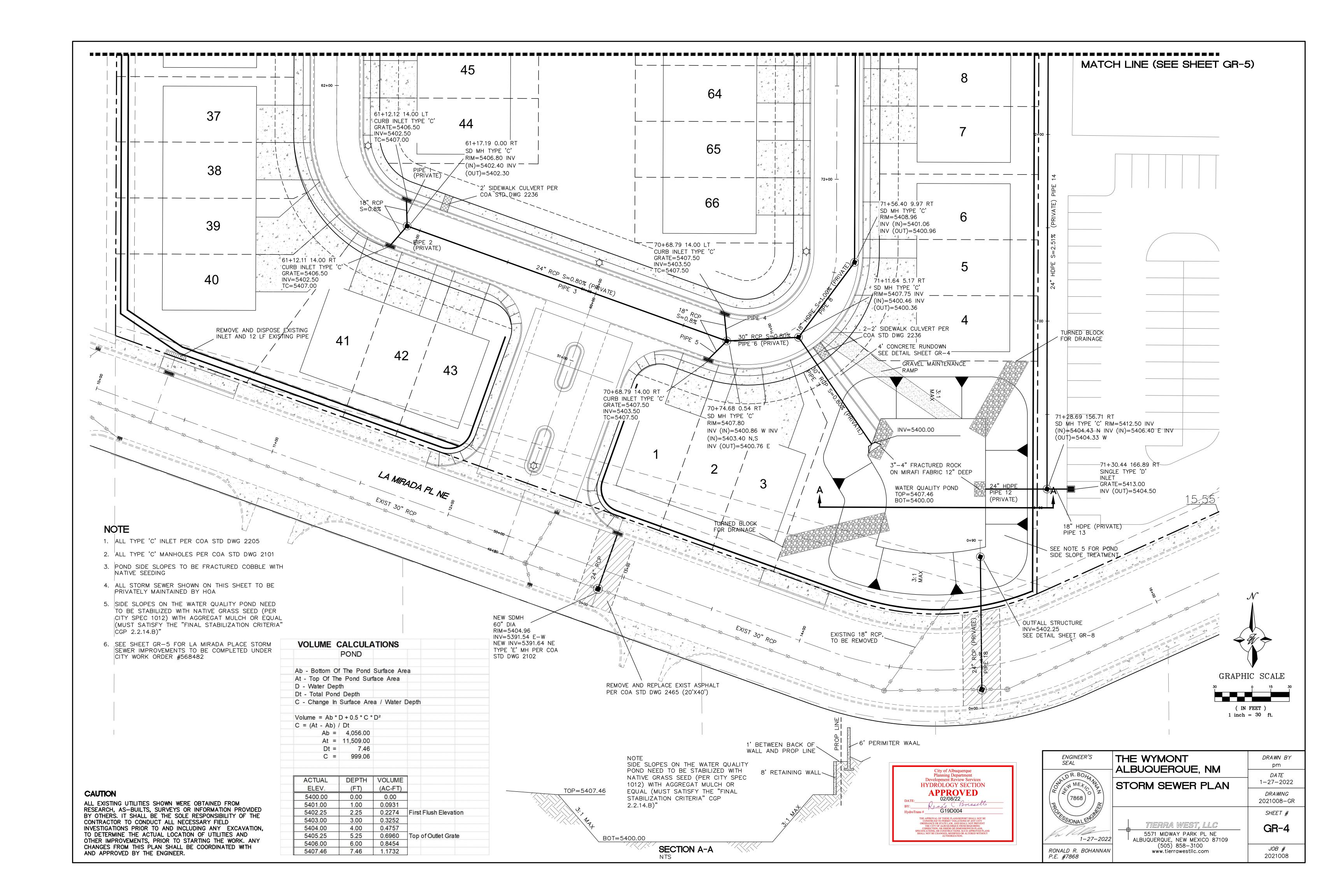
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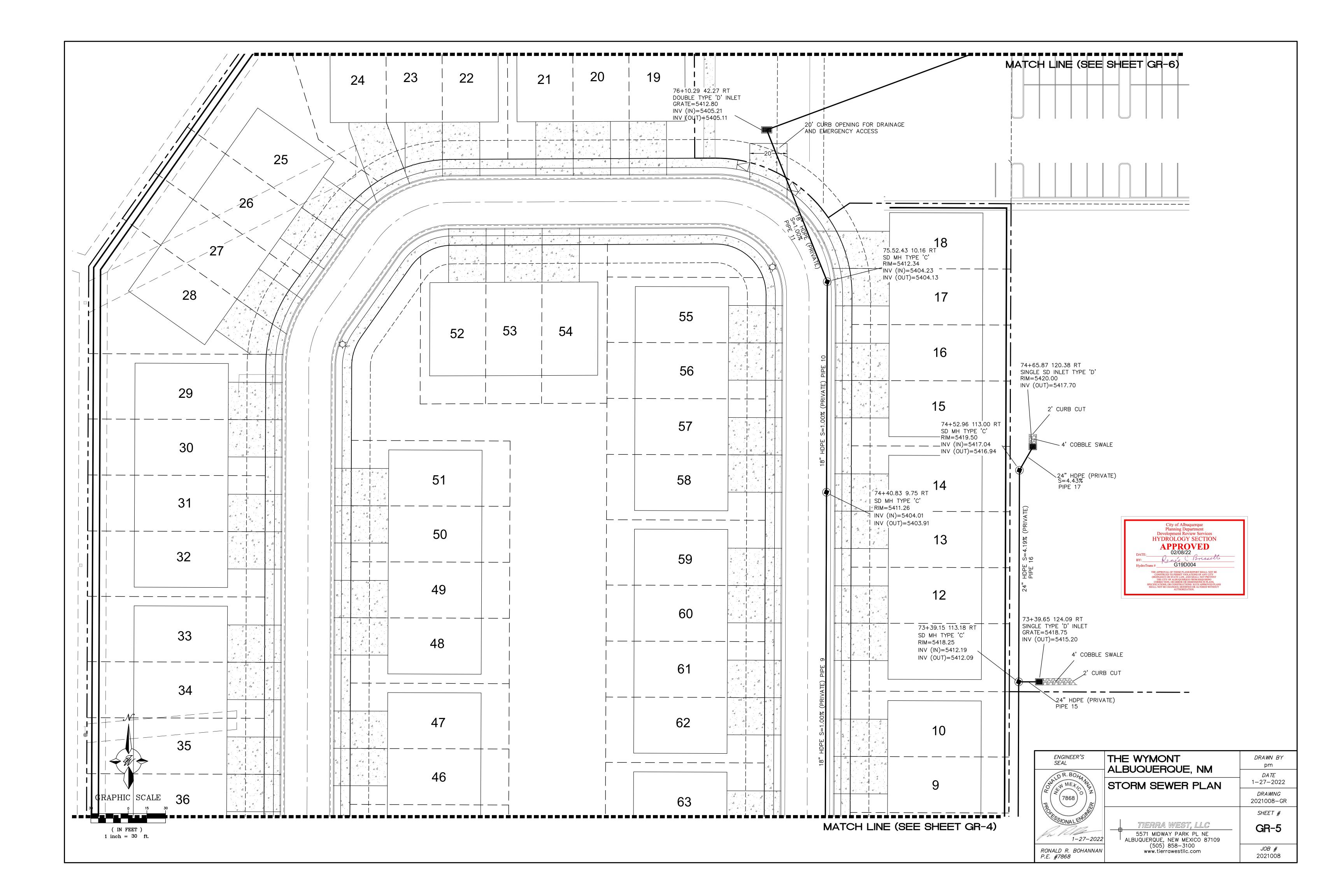
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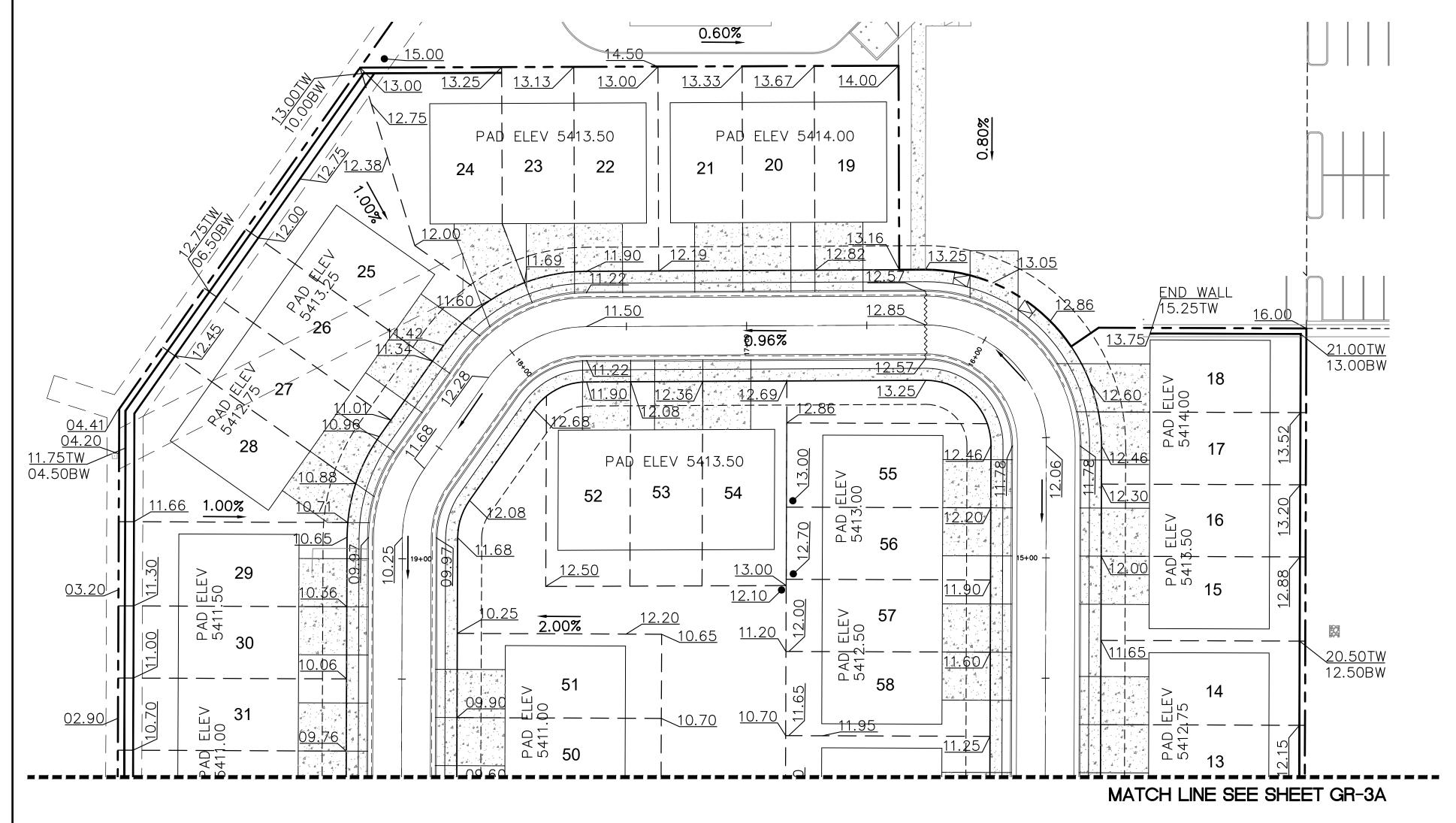
2021008

ENGINEER'S SEAL	THE WYMONT ALBUQUERQUE, NM
DR. BOH	ALDOGOLI IGOL, INVI
DR. BOHANDA ON MEXICO 7868	RESIDENTIAL GRADING PLAN
PERSONAL ENGINE	TIERRA WEST, LLC
In 1-27-2022	5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109
RONALD R. BOHANNAN	(505) 858-3100 www.tierrawestllc.com

P.E. #7868







NOTICE TO CONTRACTORS

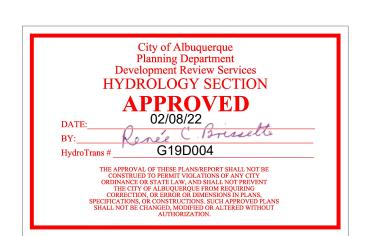
- 1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HERON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
- 3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765–1234, FOR LOCATION OF EXISTING UTILITIES.
- 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
- 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY
- 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

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
- 5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.
- 6. ALL SLOPES NOT STABILIZED AT THE END OF THE PROJECT SHALL BE STABILIZED IN ACCORDANCE WITH COA SPECS OR ₹ GRAVEL

NOTE

SEE SHEETS GR-4 AND GR-5 FOR ALL STORM SEWER INFORMATION



<u>LEGEND</u>

CURB & GUTTER

BUILDING

EXISTING CURB & GUTTER

NEW CUR INLET TYPE 'C'

PROPOSED HYDRANT

NEW SD MH

EXISTING SAS MH

EXISTING WATERLINE

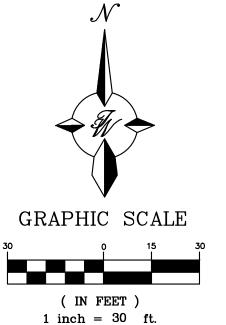
EXISTING SAS

RETAINING WALL

------ WATER BLOCK

EXISTING GATE VALVE

— — — BOUNDARY LINE



NOTE - ADD 5400 TO ALL ELEVATIONS

ALL SPOT ELEVATIONS ARE TO FLOWLINE UNLESS OTHERWISE SPECIFIED

CAUTION

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS—BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

	ENGINEER'S SEAL	T
	ALD R. BOHA	_
	ON MEXICO Z	F
	(((7868)))	C
D	PROTESSIONAL ENGINE	
	OSYONALEM	
Ν,	fn 1-27-2022	_
•	RONALD R. BOHANNAN	
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P.E. #7868

	THE WYMONT
	THE WYMONT ALBUQUERQUE, NM
Z Z Z	RESIDENTIAL GRADING PLAN
9	TIERRA WEST, LLC
2022	T 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109

5571 MIDWAY PARK PL NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 858-3100
www.tierrawestllc.com

DRAWN BY
pm

DATE
1-27-2022

DRAWING

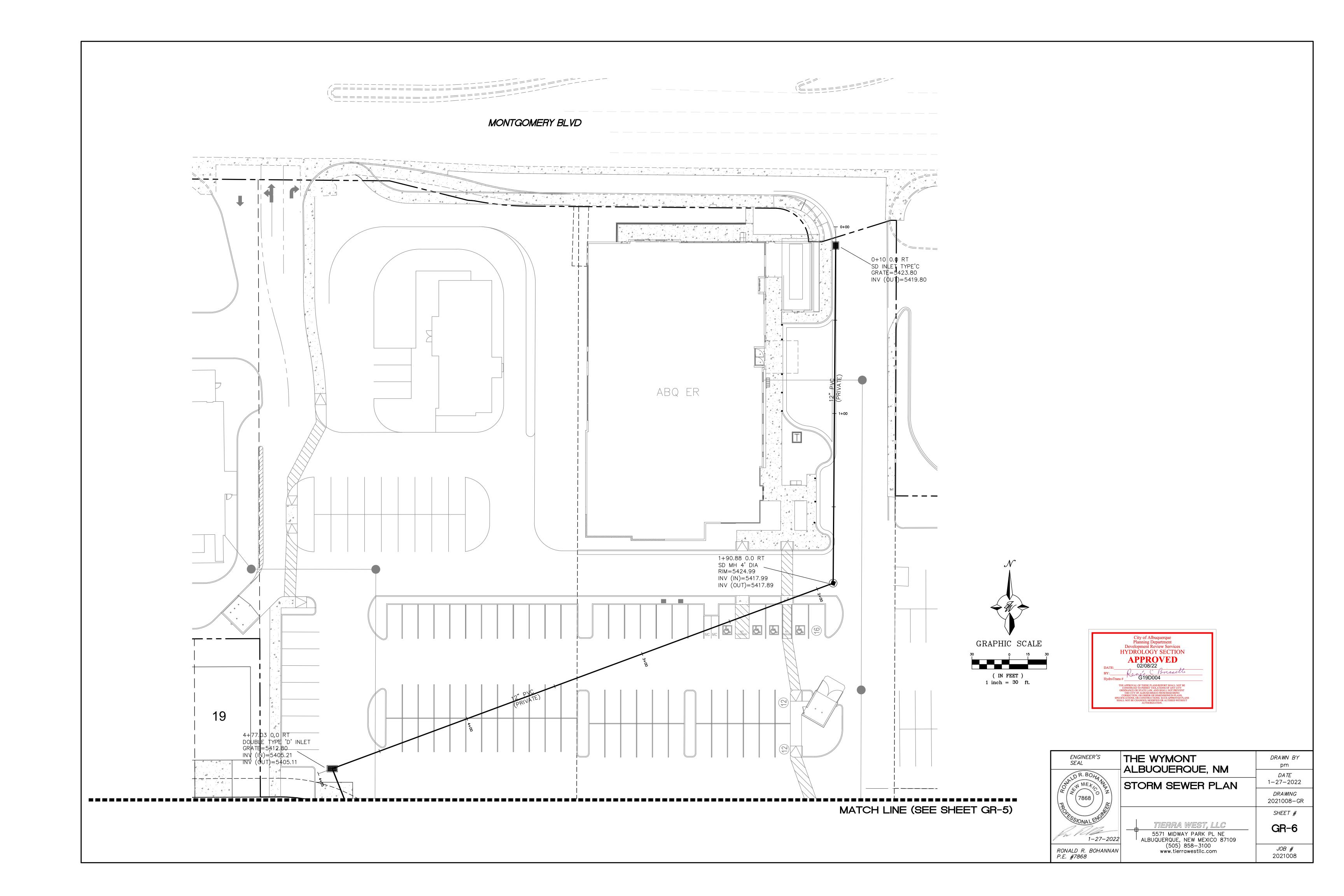
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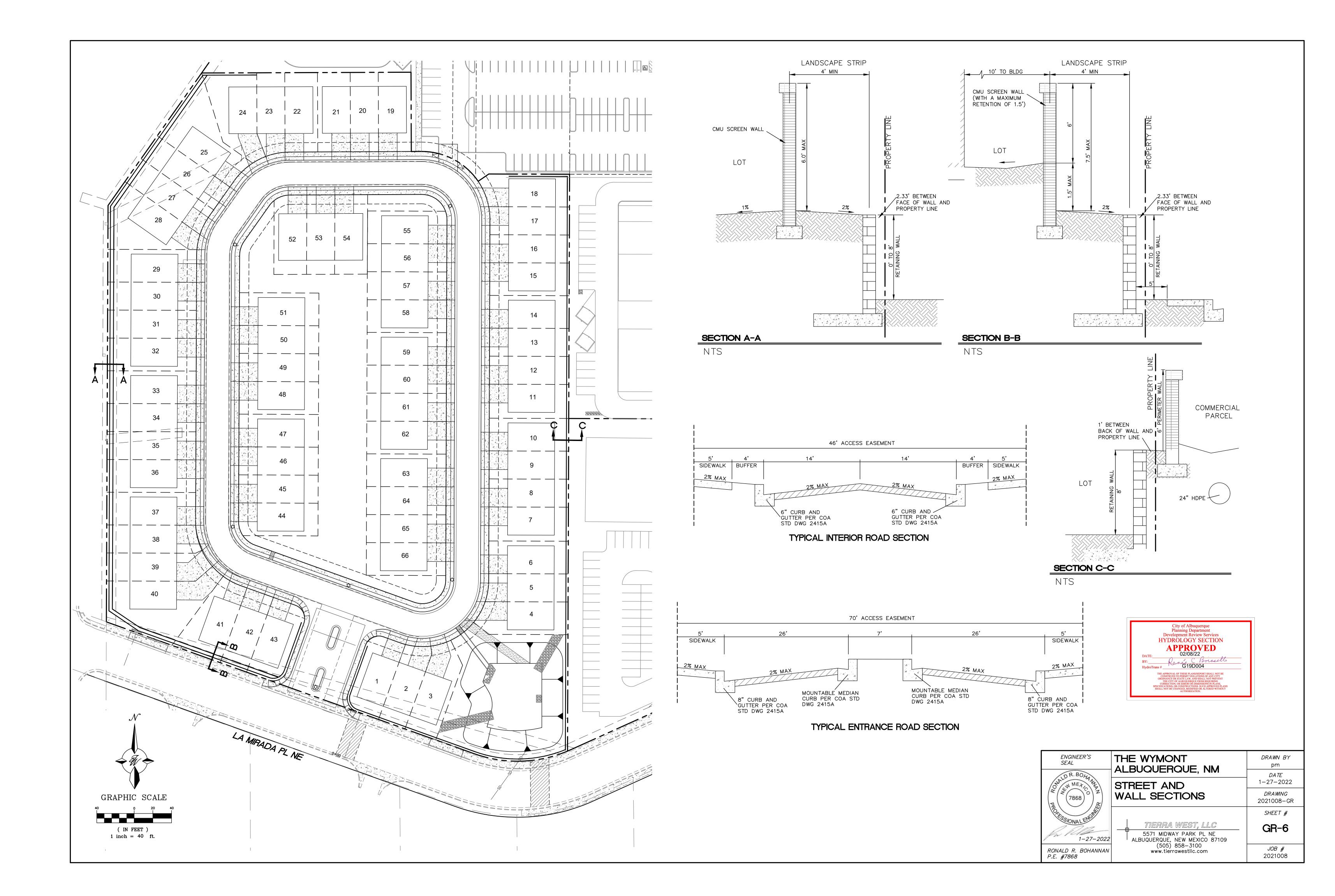
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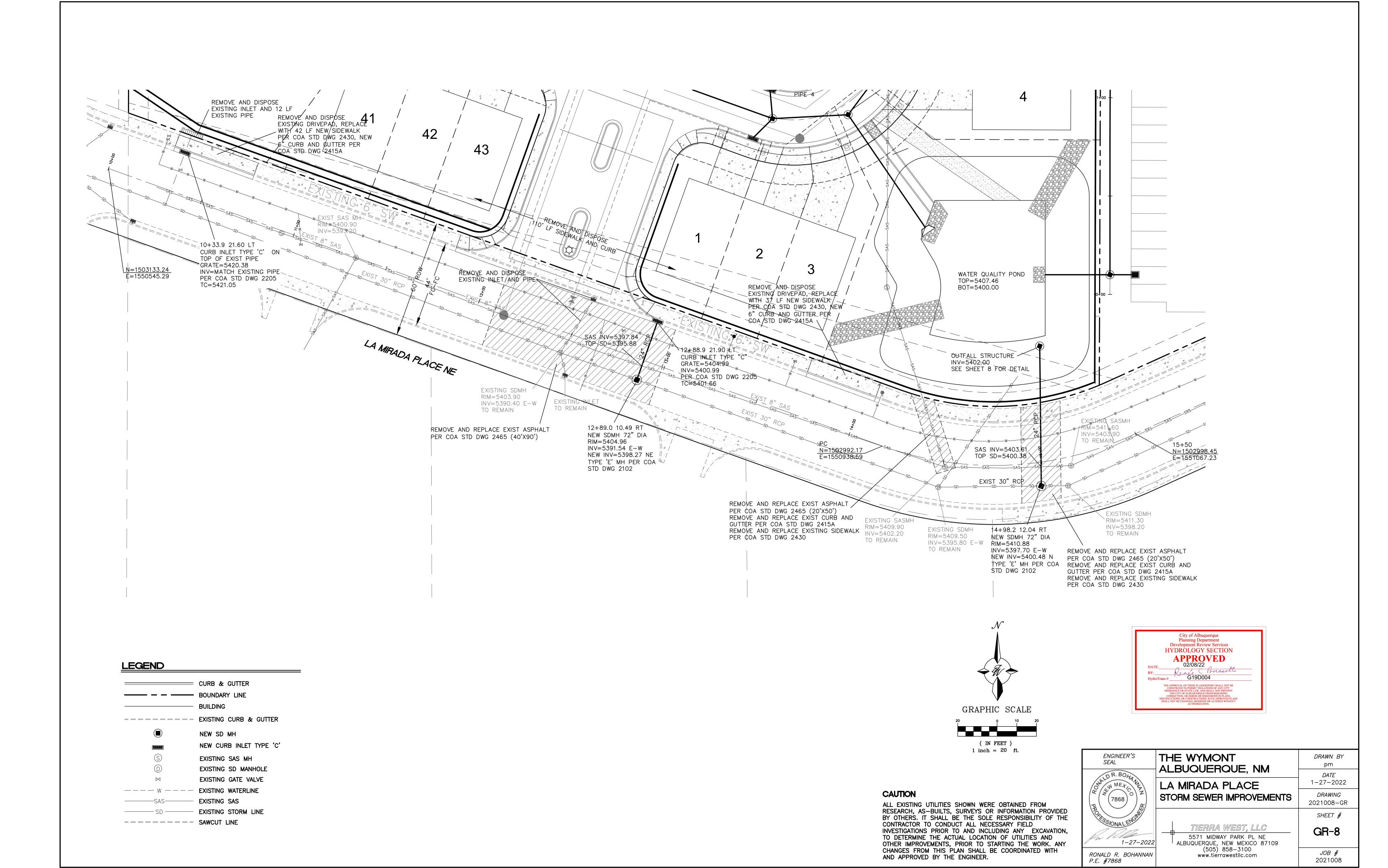
GR-3B

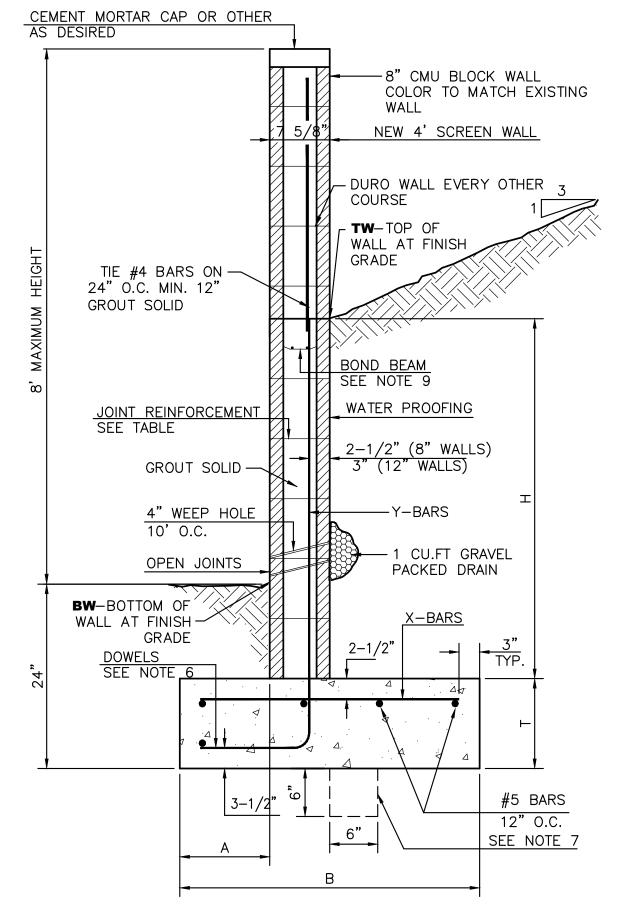
JOB #

2021008









8 INCH REINFORCED CONCRETE MASONRY WALL

G 114011 IVE1141 GIVGED GG14GIVETE WINGG141VT WIVEE							
I	Α	В	B T Y-BARS X-BARS		X-BARS		
ft.—in.	in.	ft.—in.	in.				
2'-0" 2'-8" 3'-4" 4'-0" 4'-8" 5'-4" 6'-0"	8" 8" 10" 12" 14" 16"	2'-0" 2'-0" 2'-4" 2'-8" 3'-4" 3'-10" 4'-8"	9" 9" 9" 9" 10" 10"	#4 @32" O.C. #4 @32" O.C. #4 @32" O.C. #4 @32" O.C. #5 @32" O.C. #6 @16" O.C. #6 @ 8" O.C.	#4 @24" O.C. #4 @24" O.C. #4 @24" O.C. #4 @18" O.C. #4 @18" O.C. #4 @12" O.C.		

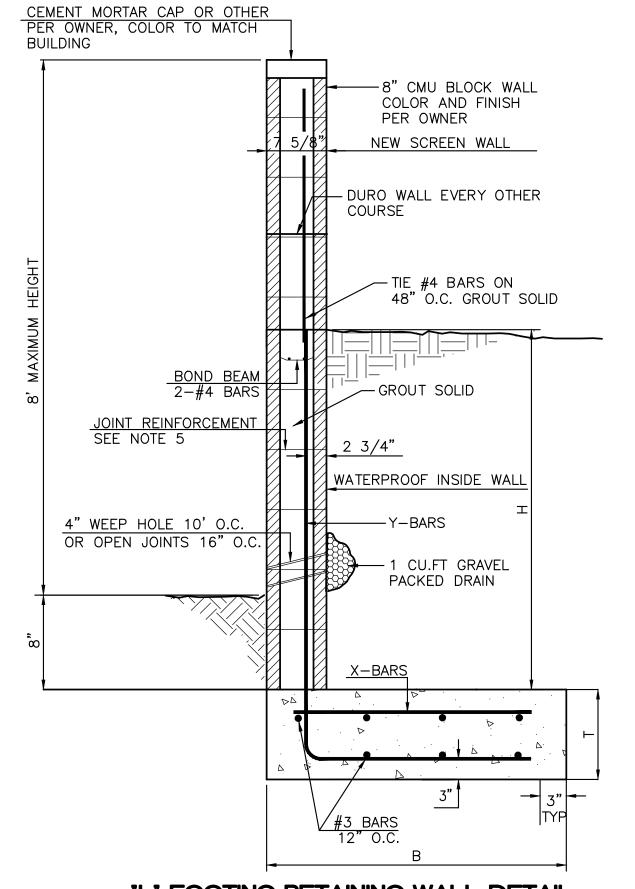
2	INCH	REINFORCED	CONCRETE	MASONRY	WAL

12 INCH KEINI OKCED CONCRETE MASONICI WALL							
I	Α	В	Т	Y-BARS	X-BARS		
ft.—in.	in.	ft.—in.	in.				
5'-4" 6'-0" 6'-8" 7'-4" 8'-0" 8'-8"	14" 15" 16" 18" 20" 20"	3'-8" 4'-2" 4'-6" 4'-10" 5'-4" 5'-8"	10" 12" 12" 12" 12" 12"	#6 @18" O.C. #4 @16" O.C. #6 @24" O.C. #6 @16" O.C. #7 @18" O.C. #7 @16" O.C.	#4 @24" O.C. #4 @18" O.C. #5 @18" O.C. #5 @18" O.C. #6 @12" O.C. #6 @12" O.C.		

GENERAL NOTES:

- ALL CONCRETE IS TO BE 4000 PSI @ 28 DAYS.
 MINIMUM COMPACTION UNDER FOOTINGS IS TO BE 95% PER ASTM. D 1557 FOR A DEPTH OF 12" MOISTURE CONTENT IS
- TO BE \pm 2.0%. 3. BACK FILL AGAINST WALLS IS TO BE HAND-PLACED AND
- COMPACTED.
- 4. ALL BARS ARE TO BE GRADE 60, ASTM 615.5. TRUSS TYPE DUR-O-WALL EVERY OTHER COURSE.
- 6. DOWELS SHALL BE AT LEAST EQUAL IN SIZE AND SPACING TO V—BARS, SHALL PROJECT A MINIMUM OF 30 BAR DIA.
- INTO THE FILLED BLOCK CORES, AND SHALL EXTEND TO THE TOE OF THE FOOTING.
 7. PROVIDE KEY FOR 8" AND 12" WALLS WHERE H EXCEEDS 6'-0"
- 8. USE EITHER EXPANSION JOINTS ON 20' CENTERS OR PILASTERS EVERY 16'.
- 9. BOND BEAM, 1-#4 BARS FOR WALLS UNDER 3'-4", 2-#4 BARS FOR WALLS UNDER 5'-4", 2-#5 BARS FOR WALLS OVER 5'-4".

NTS





SEE GRADING PLAN FOR SIZE

8"X8"X8" WOVEN/ WIRE FABRIC

CONCRETE CHANNEL

/AC SURFACE COURSE

/TACK COAT AS REQUIRED BY THE

/ AC PAVEMENT COURSE 1 1/2" SP-C

ASPHALT/AGGREGATE MATERIAL LIFTS.

__STANDARD C&G PER C.O.A. STD DWG #2415A

12" SUB GRADE R-VALUE>50. 95% MIN. COMPACTION, AT OPT. MOISTURE ± 2.0%, ASTM D1557, OR OPT.

90% MIN. COMPÁCTIÓN.

COMPACTED SUB GRADE
TO 95% ASTM D1557

/ ENGINEER BETWEEN ALL

1 1/2" SP-C

FINISH SURFACE OF SUB GRADE SHALL BE MOISTURE CONTROLLED AT COMPACTION MOISTURE RANGE, OR PRIME COAT APPLIED —

1' SUBGRADE SOIL. R-VALUE>50.
PLACED IN 2-6" COMPACTED LIFTS. 95% MIN. COMPACTION, AT OPT.
MOISTURE ± 2.0%, ASM ASTA DESI

OPT. MOISTURE, TO +4%, ASTM D698 FOR SOIL W/35% OR MORE MATERIAL

C.O.A. STANDARD SPECIFICATIONS.

PASSING THE NO. 200 SIEVE. SOIL NOT HAVING THE MIN. R-VALUE OF

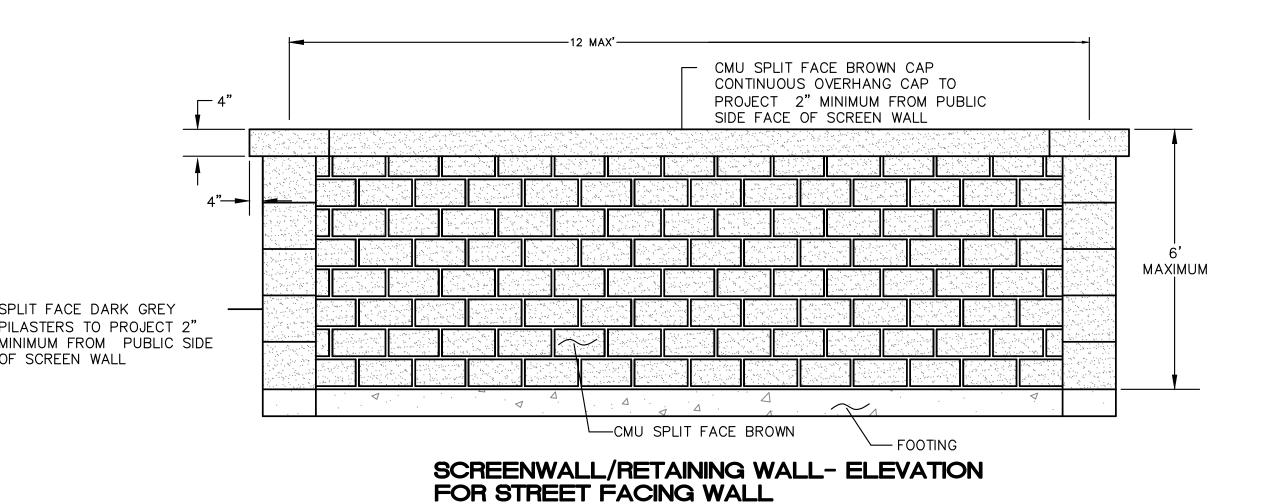
50, SHALL BE REMOVED TO A DEPTH OF
2 FEET AND REPLACED BY THE CONTRACTOR
WITH SUITABLE MATERIAL OR A PAVEMENT
SHALL BE DESIGNED BY TIERRA WEST, LLC
ACCOMMODATING THE EXISTING R-VALUE PER

AS REQUIRED BY THE ENGINEER UNTIL NEXT/FINAL SURFACE IS COMPLETED.

SUB GRADE PREPARATION SHALL BE PERFORMED AFTER ALL SUBSURFACE R/W UTILITIES CONSTRUCTION IS COMPLETED.

"L" FOOTING RETAINING WALL DETAIL





	ENGINEER'S SEAL	THE WYMONT ALBUQUERQUE, NM	<i>DRAWN BY</i> pm
	DR. BOHANA ON MEXICO Z	GRADING AND	<i>DATE</i> 1–27–2022
	((7868))	DRAINAGE PLAN	<i>DRAWING</i> 2021008-GR
	PROFITE SOLUTION		SHEET #
/	1-27-2022	TIERRA WEST, LLC 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109	GR-8
	RONALD R. BOHANNAN P.E. #7868	(505) 858-3100 www.tierrawestllc.com	<i>JOB #</i> 2021008

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED

02/08/22

BY:
HydroTrans # G19D004

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE
CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY
ORN-MICCR STATE LAW NON SHALL NOT PERVENT
THE CITY OF ALBUQUERQUE FROM REQUIRING
CORRECTION, OR ERGN OR DIMENSIONS IN PLANS,
SPECIFICATIONS, OR CONSTRUCTIONS, SUCH APPROVED PLANS
SHALL NOT BE CHANGED AND PROVED OR ALTERED WITHOUT
AUTHORIZATION.

TOP OF POND							
5407.45							
	\searrow			∕-BEEHI\	/E TOP		
				5	<u>402.25</u>		SP PIL MIN
36" GAL	VANIZED CMP		• <u>9</u> • • • • • • • • • • • • • • • • • • •		1" DIA 6" o	. HOLES O.C.	OF
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=	24" RCP PIPE						
=		6" -				2.25,	QUALITY ELEV 5
			0 - 5			=5400.	BOTTOM 00
<i>></i> /	1	2 2			21	12"x12" CONCF ANCHOR RING	RETE
						-12"	
			-4'-0"-			COMPACTED GRAVEL	
	`\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					ONAVLL	

OUTFALL DETAIL