

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

November 20, 2023

David Thompson, PE
Thompson Engineering Consultants, Inc.
PO Box 65760
Albuquerque, NM 87193

RE: 619 14th Street SW
Permanent C.O. – Accepted
Engineer's Certification Date: 11/15/23
Hydrology File: K13D084

Dear Mr. Thompson:

Based on the Certification received 11/16/2023 and site visit on 11/17/2023, 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.

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

PO Box 1293

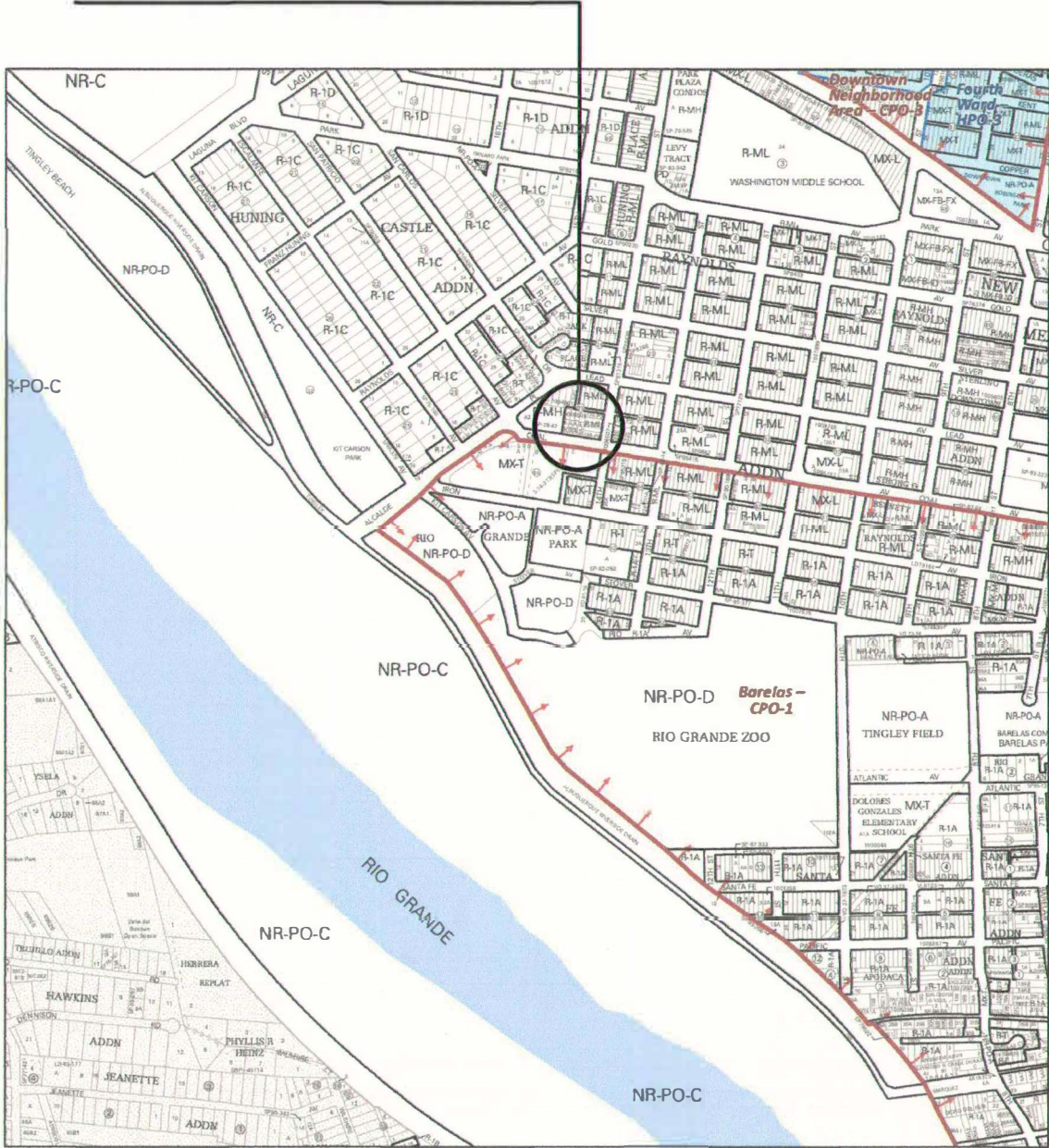
Albuquerque

NM 87103

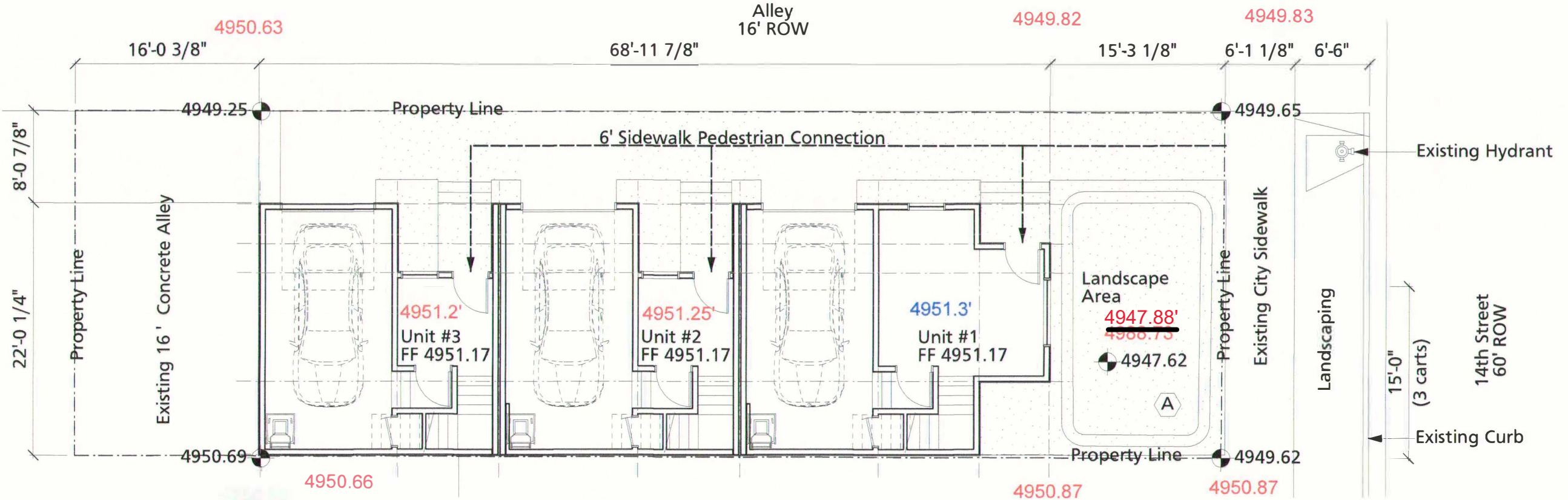
www.cabq.gov

7 VICINITY MAP

Project Site: 623 14th Street



For more details about the Integrated Development Ordinance visit: <http://www.cabq.gov/planning/codes-policies-regulations/integrated-development-ordinance>



Drainage exhibit notes:

- The floor elevation of the house must be a minimum of 1' above the highest existing adjacent elevation. (Existing Elevation 4950.5)
- A retention pond is required. Required Volume = 3.67 in. X impervious area / (12in/ft) cubic feet. Show location and elevation of pond on plan. Show calculation of both required and actual volume.
- Provide property corner elevations and a finished floor elevation.
- The street must be allowed to drain into the lot.

POND CALCULATIONS:

Water Quality
0.42 x 2,651 (Impervious Area) / 12in/ft = 93 cu.ft.
Pond A = 598 cu.ft. **464**

100-YEAR HYDROLOGIC CALCULATIONS

BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED E (in)	100-YEAR PRECIPITATION				
		A (%)	B (%)	C (%)	D (%)		V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V (24-hr) (acre-ft)	V (24-hr) (cu-ft)	Q (cfs)
EXISTING CONDITIONS											
SITE	0.0689	100.00	0.00	0.00	0.00	0.62	0.00	155	0.00	155	0.12
TOTAL RUNOFF	0.0689						0.00	155	0.00	155	0.12
FULL DEVELOPMENT CONDITIONS											
SITE	0.0689	0.00	6.00	6.00	88.00	2.16	0.01	540	0.01	606	0.29
TOTAL RUNOFF	0.0689						0.01	540	0.01	606	0.29
EXCESS PRECIP.		0.62	0.8	1.03	2.33	E _i (in)					
PEAK DISCHARGE		1.71	2.36	3.05	4.34	Q _{pi} (cfs)					
ZONE = 2											
WEIGHTED E (in) = (E _a)(%A) + (E _b)(%B) + (E _c)(%C) + (E _d)(%D)											
P _{6-hr} (in.) = 2.29											
P _{24-hr} (in.) = 2.59											
P _{10day} (in.) = 3.62											
V _{6-hr} (acre-ft) = (WEIGHTED E)(AREA)/12											
V _{24-hr} (acre-ft) = V _{6-hr} + (A _d)(P _{24-hr} - P _{6-hr})/12											
Q (cfs) = (Q _{pi})(A _a) + (Q _{pi})(A _b) + (Q _{pi})(A _c) + (Q _{pi})(A _d)											

DRAINAGE CERTIFICATION

I, DAVID B. THOMPSON, NMPE 9677, OF THE FIRM THOMPSON ENGINEERING CONSULTANTS, INC., HEREBY CERTIFY THAT THIS PLAN FOR 619 14TH STREET SW HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN BY TIERRA WEST, LLC DATED 1-15-14. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY LORENZO E. DOMINGUEZ, NMPLS 10461. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 11-10-23 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

David B. Thompson

DAVID B. THOMPSON, NMPE 9677

NOVEMBER 15, 2023
DATE



SURVEYOR'S CERTIFICATE

I, Lorenzo E. Dominguez, Professional Land Surveyor No. 10461 Do hereby certify that this "As Built" Survey was prepared by me or under my direction and that it is true and correct to the best of my knowledge and belief.

Lorenzo E. Dominguez
Lorenzo E. Dominguez PS 10461



LEGEND

- ⊙ = CAPPED REBARS SET (LS 10461)
● = POINTS FOUND
⊕ = ALBUQUERQUE SURVEY CONTROL MONUMENT

—U— = OVERHEAD UTILITIES

⌞ = UTILITY POLE

⊙ = DENOTES WATER METER

⊙ = DENOTES GAS METER

⊙ = DENOTES MANHOLE

⊙ = DENOTES FIRE HYDRANT

⊙ = DENOTES COMMUNICATIONS BOX

—W— = DENOTES WATER LINE

—G— = DENOTES GAS LINE

—S— = DENOTES SEWER LINE

() RECORD DATA PLAT BK. 2007C, PG. 261

100-YEAR HYDROLOGIC CALCULATIONS

BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED E (in)	100-YEAR PRECIPITATION				Q (cfs)
		A (%)	B (%)	C (%)	D (%)		V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V (24-hr) (acre-ft)	V (24-hr) (cu-ft)	
		EXISTING CONDITIONS									
SITE	0.0574	100.00	0.00	0.00	0.00	0.62	0.00	129	0.00	129	0.10
TOTAL RUNOFF	0.0574						0.00	129	0.00	129	0.10
FULL DEVELOPMENT CONDITIONS											
SITE	0.0574	0.00	6.00	6.00	88.00	2.16	0.01	450	0.01	505	0.24
TOTAL RUNOFF	0.0574						0.01	450	0.01	505	0.24
EXCESS PRECIP		0.62	0.8	1.03	2.33	E (in)					
PEAK DISCHARGE		1.71	2.36	3.05	4.34	Qm (cfs)					
WEIGHTED E (in) = (E _A)(%A) + (E _B)(%B) + (E _C)(%C) + (E _D)(%D)						ZONE = 2					
V _{6HR} (acre-ft) = (WEIGHTED E)(AREA)/12						P _{6HR} (in.) = 2.29					
V _{24HR} (acre-ft) = V _{6HR} + (A _D)(P _{24HR} - P _{6HR})/12						P _{24HR} (in.) = 2.59					
Q (cfs) = (Q _{hA})(A _A) + (Q _{hB})(A _B) + (Q _{hC})(A _C) + (Q _{hD})(A _D)						P _{10DAY} (in.) = 3.62					

POND CALCULATIONS:

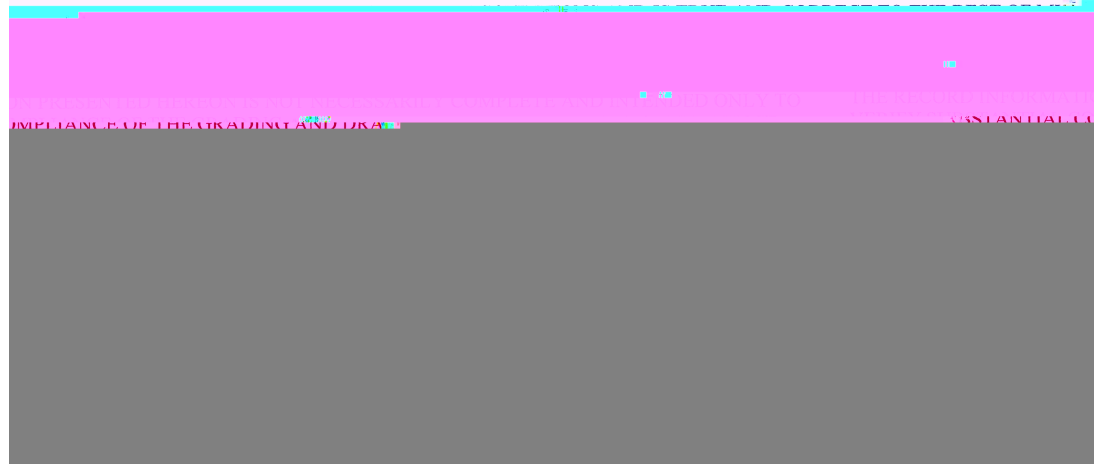
WATER QUALITY VOLUME = (0.42IN/12IN/FT) x ((0.88 x .0574)) x 43,560SF/AC) = 77 CF REQUIRED.

VOLUME PROVIDED:

POND A = 86 CF
POND B = 24 CF
TOTAL POND VOLUME = 110 CF

DRAINAGE CERTIFICATION

I, DAVID B. THOMPSON, NMPE 9677, OF THE FIRM THOMPSON ENGINEERING CONSULTANTS, INC., HEREBY CERTIFY THAT THIS PLAN FOR 623 14TH STREET SW HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN BY TERRA WEST, LLC DATED 1-15-14. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY LORENZO E. DOMINGUEZ, NMPLS 10461. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 1-12-24 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA

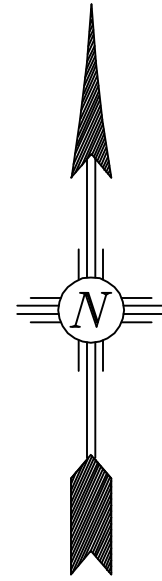


"As Built"

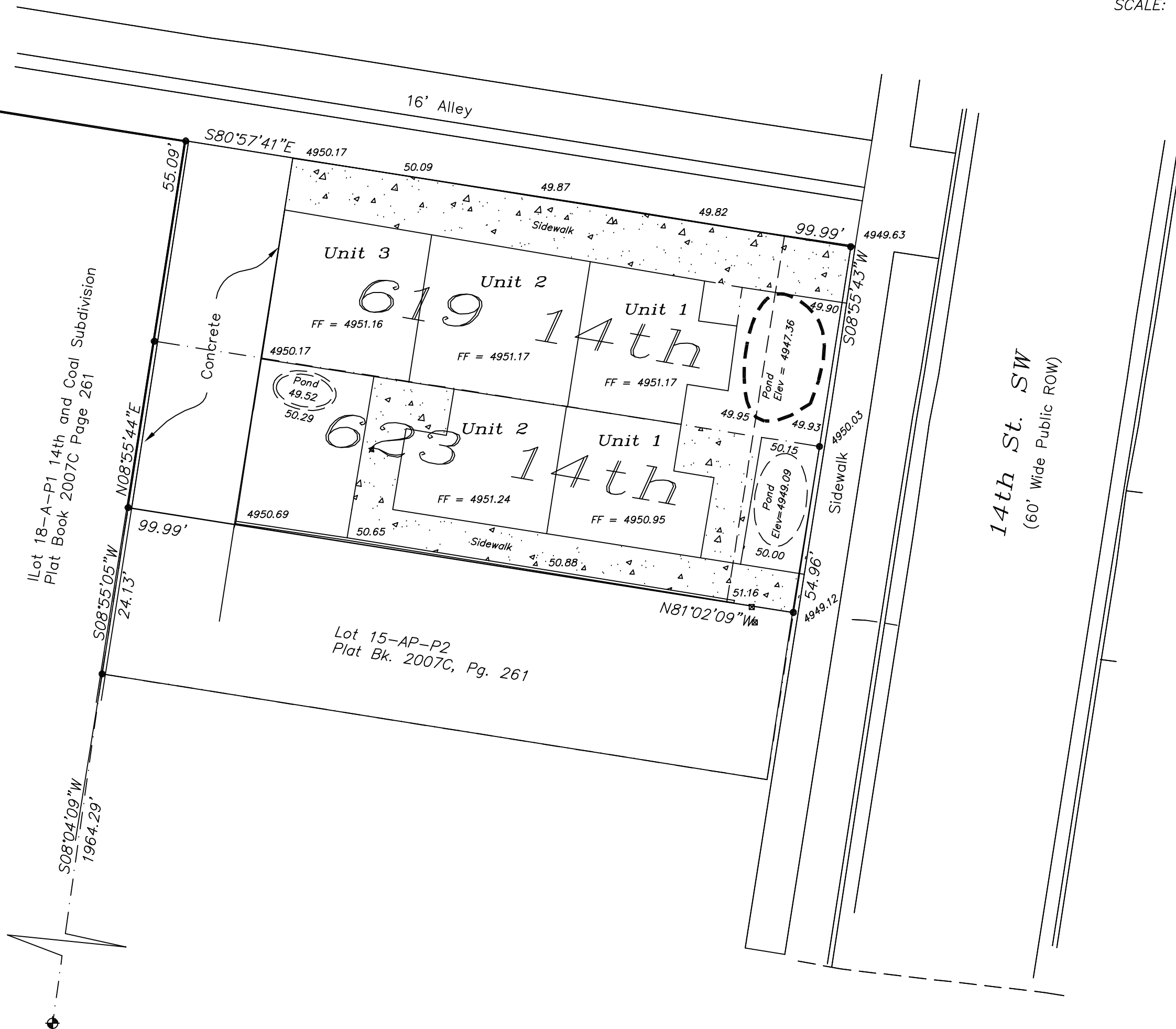
Lorenzo E. Dominguez



Lot 17-AP-P2-A
OF THE
14 + Coal Subdivision
CITY OF ALBUQUERQUE, BERNALILLO COUNTY
STATE OF NEW MEXICO
January 2024
Section 19, T.10N., R.3 E., N.M.P.M.



15 0 15 30
SCALE: 1"=15'



East Mountain Surveying Co.

Lorenzo (Larry) E. Dominguez
Owner/Professional Surveyor · PS #10461
PO Box 1607, Moriarty, NM 87035
505.639-5557 · Mobile 505.450.2097 · Fax 505.639.5557

INDEXING INFORMATION

ALEXANDER HOLDING LLC
RECORDED DOCS.: 2022004985 & 2022004986
SEC. 19, T.10N, R.3E., N.M.P.M.
SUBDIVISION(S): 14th & Coal Subdivision
PROJECT No. EM.21-232-C Sheet 2 of 2

