CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

December 22, 2023

Robert Fierro, P.E. Fierro & Company 6300 Montano Rd. NW Albuquerque, NM 87120

RE: Luna Residence 9115 Riverdale Lane NW Permanent C.O. – Accepted Engineer's Certification Date: 12/21/23 Engineer's Stamp Date: 11/18/21 Hydrology File: C13D027G

Dear Mr. Fierro:

PO Box 1293

Based on the Certification received 12/20/2023 and site visit on 12/21/2023, 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.

Albuquerque

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

NM 87103 Sincerely,

Renée C. Brissette

www.cabq.gov

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology Planning Department



City of Albuquerque

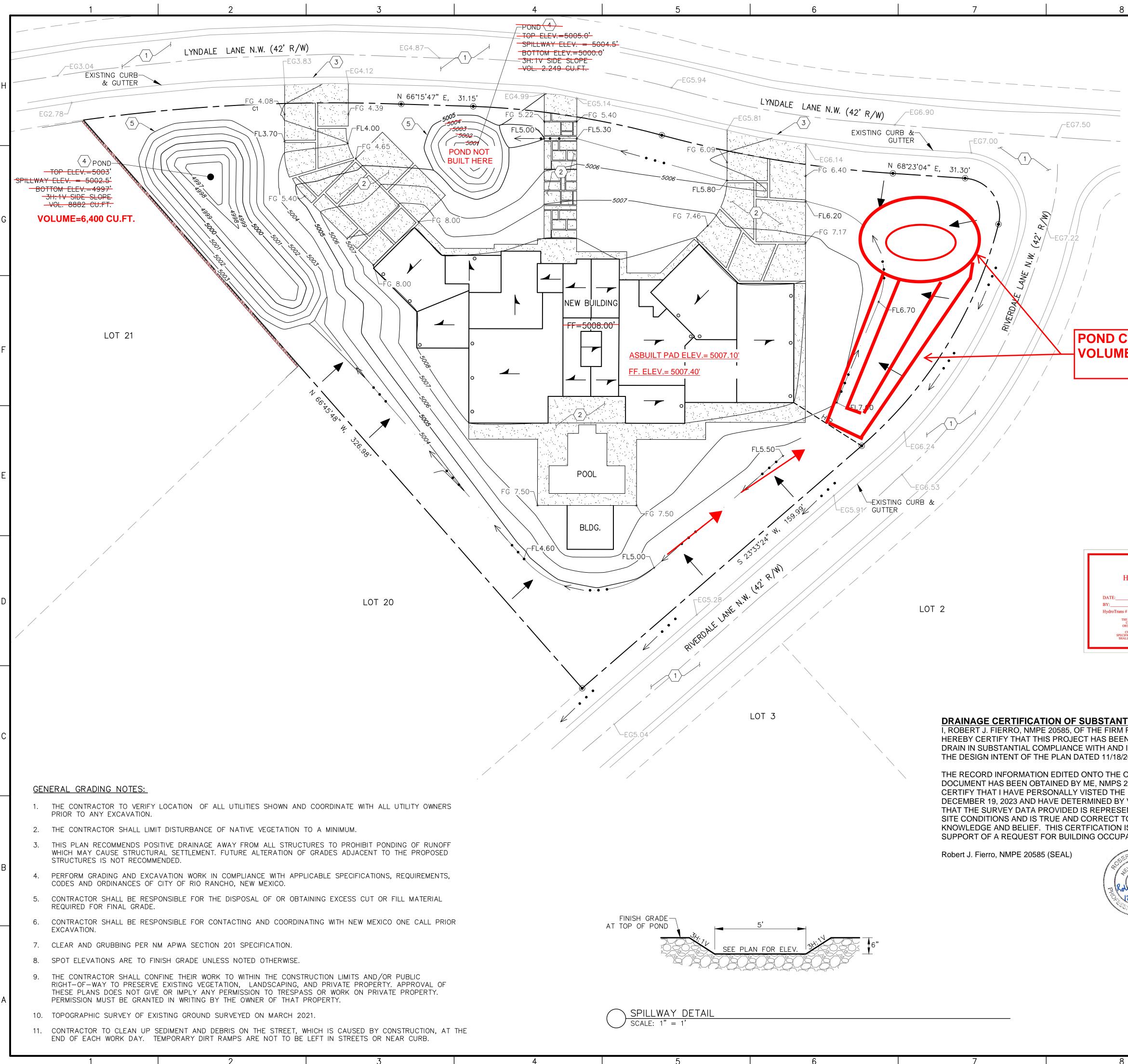
Planning Department Development & Building Services Division DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title:	Building	Permit #: Hydrology File #:		
		Work Order#:		
Legal Description:				
City Address:				
Applicant:		Contact:		
Address:				
		E-mail:		
Owner:		Contact:		
Address:				
Phone#:	Fax#:	E-mail:		
TYPE OF SUBMITTAL: PLAT (_# OF LOTS)	RESIDENCE DRB SITE ADMIN SITE		
IS THIS A RESUBMITTAL?:	Yes	No		
DEPARTMENT: TRAFFIC/ TRAM	SPORTATION	HYDROLOGY/ DRAINAGE		
Check all that Apply:		TYPE OF APPROVAL/ACCEPTANCE SOUGHT		
TYPE OF SUBMITTAL:		BUILDING PERMIT APPROVAL		
ENGINEER/ARCHITECT CERTIFICATION		CERTIFICATE OF OCCUPANCY		
PAD CERTIFICATION		PRELIMINARY PLAT APPROVAL		
CONCEPTUAL G & D PLAN		SITE PLAN FOR SUB'D APPROVAL		
GRADING PLAN		SITE PLAN FOR BLDG. PERMIT APPROVAL		
DRAINAGE MASTER PLAN		FINAL PLAT APPROVAL		
DRAINAGE REPORT				
FLOODPLAIN DEVELOPMENT PERMIT APPLIC		FOUNDATION PERMIT APPROVAL		
ELEVATION CERTIFICATE		GRADING PERMIT APPROVAL		
CLOMR/LOMR		SO-19 APPROVAL		
TRAFFIC CIRCULATION LAYOUT (TCL)		PAVING PERMIT APPROVAL		
TRAFFIC IMPACT STUDY (TIS)		GRADING/ PAD CERTIFICATION		
OTHER (SPECIFY)		WORK ORDER APPROVAL		
PRE-DESIGN MEETING?		CLOMR/LOMR		
		FLOODPLAIN DEVELOPMENT PERMIT		
		OTHER (SPECIFY)		
DATE SUBMITTED	Bv			

COA STAFF:

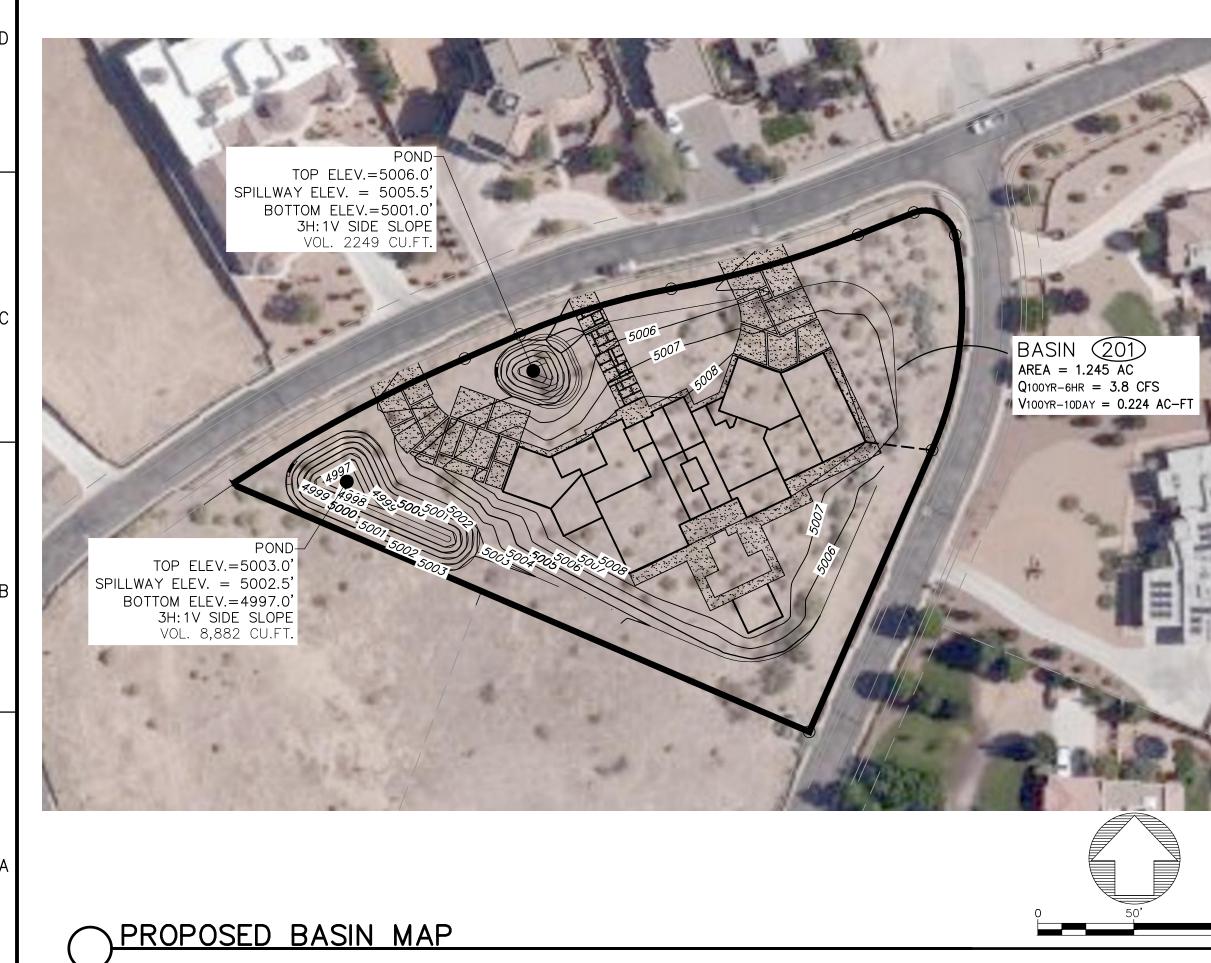
ELECTRONIC SUBMITTAL RECEIVED:

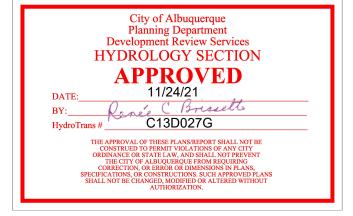
FEE PAID:



IME=3,500 CU.FT. IME=3,500 CU.FT. Image: Source of the so	8	9	10		
CONSTRUCTED HERE UME=3,500 CU.FT. UME UME UME UME UME UME UME UME UME UM	1 EXISTING 2 NEW CC 3 CONSTR 4 CONSTR NATIVE (MUST)	G ASPHALT. DNCRETE. RUCT DRIVEWAY PER CORR RUCT POND. STABILIZE DE GRASS SEED WITH AGGRE SATISFY THE "FINAL STAB	ETENTION POND SIDE SLOPES W EGATE MULCH OR EQUAL. BILIZATION CRITERIA (GP 2.2.14.		TORELING BURVEYIN MONTANO RD. NW, SUIT UQUERQUE, NEW MEXICO 871 PH (505) 352-8930 www.fierrocompany.com
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CANTIAL COMPLIANCE APPARENT PROPERTY BOUNDARY IRM FIERRO & COMPANY, APPARENT PROPERTY CORNER BEEN GRADED AND WILL APPARENT PROPERTY CORNER AND IN ACCORDANCE WITH FLOW PATH V18/2021. FLOW DIRECTION MPS 22909. I FURTHER FLOW DIRECTION DBY VISUAL INSPECTION EXISTING MAJOR CONTOUR VISUAL INSPECTION Sagos PROPOSED MAJOR CONTOUR PROPOSED MAJOR CONTOUR DBY VISUAL INSPECTION FG 26.29 CUPANY. FL FL FLOW LINE HP.P. HIGH POINT BLDG. BUILDING NEW CONCRETE PROJECT NO: POND W/ RIP-RAP PROJECT NO:	JME=3,500 CU.FT.			40'	LUNA RESI 9515 RIVERDAI ALBUQUERQUE, I
	IRM FIERRO & COMPANY, BEEN GRADED AND WILL AND IN ACCORDANCE WITH /18/2021. THE ORIGINAL DESIGN IPS 22909. I FURTHER THE PROJECT SITE ON D BY VISUAL INSPECTION RESENTATIVE OF ACTURAL CT TO THE BEST OF MY ION IS SUBMITTED IN CUPANY.	● → → → → → → → → → → → → →	 APPARENT ADJOINING PROPE APPARENT PROPERTY CORNE FLOW PATH FLOW DIRECTION ROOF FLOW DIRECTION EXISTING MAJOR CONTOUR PROPOSED MAJOR CONTOUR PROPOSED MINOR CONTOUR FINISHED GRADE TOP OF CONCRETE FLOW LINE HIGH POINT BUILDING NEW CONCRETE 	ARY RTY LINE R	Image: Sheet no:







Introduction The site is 1.25 acres and is Lot 19 of Black Farm Estates. Lot 19 is located at the intersection of Lyndale Lane and Riverdale Lane. Proposed improvements include a residential building with a footprint of 10,000 sq.ft., two driveways with connections to Lyndale Lane, and two ponds. The purpose of this Grading & Drainage Plan is to 1) provide hydrologic and hydraulic analysis of the existing and proposed condition, 2) satisfy the requirements from the approved Black Farms Drainage Report, 3) satisfy the Stormwater Quality Volume requirement, and 3) seek approval from City of Albuquerque's Hydrology Department.

Methodology

storm.

Conclusion The proposed development meets the drainage requirements from Black Farms Drainage Master Plan and the City's Stormwater Quality Volume. This drainage report seeks COA's Hydrology and approval.

TOTAL NEW LAND TREATMENT "D" AREA = 2,700 SQ.FT. WATER QUALITY STORAGE REQ. (NEW DEVELOPMENT)=24,412 SQ.FT.*(.42")*(1'/12")=854 CU.FT.=0.0196 AC.FT.

= 8882 + 2249 = 11,131 CU.FT.

HYDROLOGY SUMMARY

 100
 1.245
 90.0
 0.0
 10.0
 0.0
 2.1
 0.061
 0.061
 0.061
 0.061

200 1.245 0.0 55.0 0.0 45.0 3.8 0.146 0.161 0.191 0.227

(acres) A B C D (cfs) (ac-ft) (ac-ft) (ac-ft) (ac-ft)

TOTAL DETENTION POND VOL. PROVIDED = POND 1(VOL.) + POND 2(VOL.)

STORMWATER QUALITY VOLUME POND (0.62" STORM)

Land Treatement (%)

TOTAL RETENTION POND VOL. REQUIRED = SWQV + $\Delta V_{100-YR,10-DAY}$ = 854 CU.FT. + 9892 CU.FT = 10,746 CU.FT.

Q100 V100yr-6hr V100yr-24hr V100yr-4day V100yr-10day



PROVIDED VOL. EXCEEDS REQUIRED RETENTION VOLUME.

DETENTION POND SUMMARY

Total Area

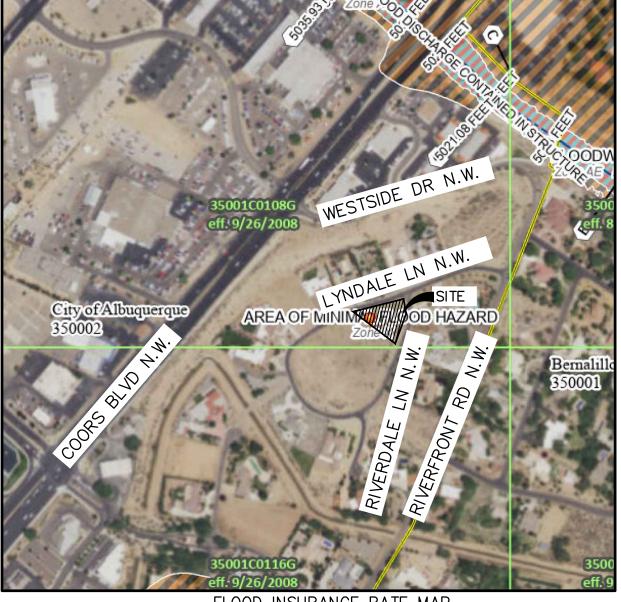
HYDROLOGY SUMMARY

Basin

POND No. 1 WSEL = 5002.5'POND NO. 2 WSEL = 5005.5'

WATER SURFACE ELEVATION





FLOOD INSURANCE RATE MAP MAP NO. 35001C0108G EFFECTIVE DATE: 09/26/2008



Hydrologic procedures presented in Chapter 6 of City of Albuquerque's the Development Process Manual, effective as of June 8, 2020 were followed.

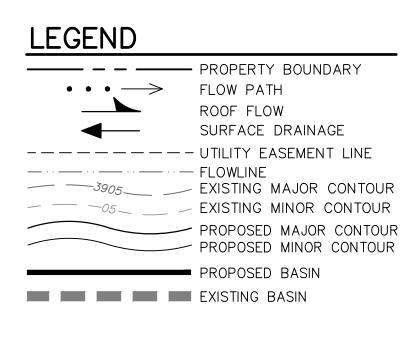
Existing Condition

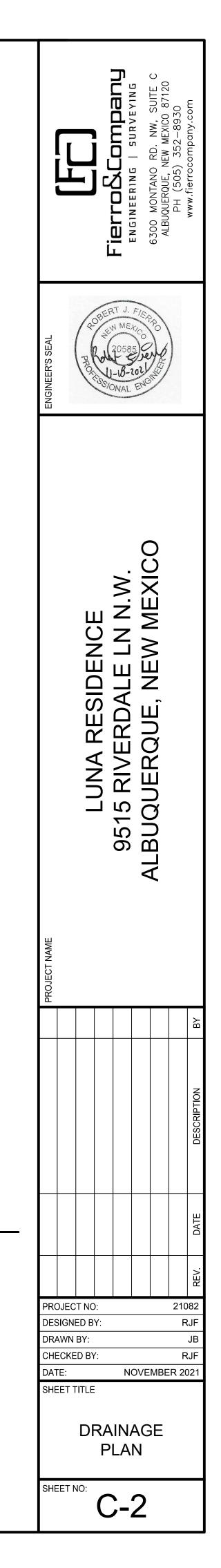
Lot 19 is vacant. The lot isn't flat and has a slope of approximately 1% from the high point at the northeast corner to the lowest elevation at the most westerly corner of the site, which is caused by Riverdale being higher in elevation than Lyndale Road. Due to the flat grading scheme of Black Farms runoff from the road may enter the site during the 100-year, 10-day

Proposed Condition

Proposed improvements include a residential building with a footprint of 10,000 sq.ft., two driveways with connections to Lyndale Lane, and two ponds. The site will retain the combined runoff volume from the 100-year, 10-day storm and storm water quality volume within two ponds located along Lyndale Lane. Runoff from the backyard will flow to the front yard to one of the two ponds. The flat grading scheme does not work on Lot 19, since Riverdale is higher in elevation than Lyndale Road. Due to the difference in road elevations, runoff from the front yard cannot drain to the back yard. The ponds are located as designated in Black Farms master drainage plan. The proposed impervious improvement is approximately 35%; however, the site will retain the site's 100-year, 10-day storm with the imperious cover at 45%. Runoff from Pond 2 will overtop and flow to Pond 1. Runoff from precipitation greater than the 100-year, 10-day storm will overtop Pond 1 and flow to Lyndale Lane.







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