CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

September 10, 2024

Fred Arfman, P.E. Isaacson & Arfman, P.A. 128 Monroe St. N.E Albuquerque, NM 87108

RE: Rio Grande Tree Nursery Parcel 101206049346010810 3301 Rio Grande Blvd. NW Grading and Drainage Plans Engineer's Stamp Date: 07/31/2024 Hydrology File: G13D046

Dear Mr. Arfman:

PO Box 1293

Based upon the information provided in your submittal received 08/15/2024, the Grading & Drainage Plan is approved for Building Permit. Please attach a copy of this approved plan set in the construction sets for Building Permit processing along with a copy of this letter.

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} 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)
 www.cabq.gov 14 days prior to any earth disturbance.

If you have any questions, please contact me at 505-924-3362 or richardmartinez@cabq.gov.

Sincerely,

hillett

Richard Martinez, P.E. 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: Address: Email:		Contact: Phone:								
Applicant/Owner: Address: Email:		Contact Phone:	::							
TYPE OF DEVELOPMENT: Plat (# of lots)			Single Family Home All other Developments							
	RE-SUBMITTAL:	YES	NO							
DEPARTMENT: TRANS	SPORTATION	HYDROLO	DGY/DRAINAGE							
Check all that apply under Both	the Type of Submittal a	nd the Type	of Approval Sought:							
TYPE OF SUBMITTAL:		TYPE OF	APPROVAL SOUGHT:							
Engineering / Architect Certifica	ation	Pad Certification								
Conceptual Grading & Drainag	e Plan	Building Permit								
Grading & Drainage Plan, and/ Report	or Drainage	Grading Permit Paving Permit SO-19 Permit Foundation Permit								
Drainage Report (Work Order)										
Drainage Master Plan										
Conditional Letter of Map Revision (CLOMR)		Certificate of Occupancy - Temp Perr								
Letter of Map Revision (LOMR)		Preliminary / Final Plat								
Floodplain Development Permit		Site Plan for Building Permit - DFT								
Traffic Circulation Layout (TCL) – Administrative		Work Order (DRC)								
Traffic Circulation Layout (TCL) – DFT Approval		Release CLOMR	of Financial Guarantee (ROFG)							
Traffic Impact Study (TIS)		Concept	ual TCL - DFT							
Street Light Layout		OTHER	(SPECIFY)							
OTHER (SPECIFY)										



FIRM FLOOD



N 1"=750"± PANEL118

GENERAL NOTE

- A. 0.5' DESIGN CONTOURS SHOWN DASHED WHERE NECE CLARIFY GRADING CONCEPT.
- B. GRADES SHOWN ARE FINAL SURFACE GRADES(TOP OF OF LANDSCAPE MATERIAL, ETC.)
- C. ALL DRAINAGE IMPROVEMENTS SHOWN ON THE APPRO DRAINAGE PLAN MUST BE COMPLETED BEFORE ENGINE CERTIFICATION OF SUBSTANTIAL COMPLIANCE CAN BE
- D. NO WORK SHAL BE PERFORMED IN THE PUBLIC R/W WI APPROVED WORK ORDER OR
- E. EROSION PROTECTION MUST BE PLACED TO PERMIT ST PASS SMOOTHLY. HAND PLACE AT CURB OPENINGS AND ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED P

POND VOLUMES

POND -	VOLUME	Colu
A	966	CF
В	4308	CF
С	7164	CF
D	375	CF
E	647	CF
F	689	CF
G	999	CF
Н	703	CF
I.	2440	CF
J	35960	CF
К	48555	CF
L	787	CF
М	1650	CF
N	1197	CF

TOTAL106439CFREQUIRED POND VOLUME BASED ON THE PROPOSED 10STORM VOLUME = 24,069 CF.

PROVIDED VOLUME WITHIN 15 STORMWATER RETENTION

21,924 CF OF VOLUME IS PROVIDED IN PONDS A-I & L-N) -ORCHARD AREAS.

		-								
		CALCU	LATIO	NS: Rio Grande '	Tree Fa	rm : JU				
		Based on City o	f Albuqu	erque DMP, Article	e 6-2 Hyc	drology d				
			100-	YEAR, 6-HOUR C	ALCUI	LATIONS				
AREA OF SITE	8:			301806	SF	=				
				100-year, 6-hour						
PRE-DEVELOPED FLOWS:			DEVELOPED FLOWS:							
		Treatment SF	%	-		Treatme				
Area A	=	15090	5%	Area A	=	905				
Area B	=	150903	50%	Area B	=	1810				
Area C	=	132795	44%	Area C	=	965				
Area D	=	3018	1%	Area D	=	150				
Total Area	=	301806	100%	Total Area	=	3018				
On-Site Weighte	d Exce	ess Precipitation Weighted E =	(100-Ye	ar, 6-Hour Storm) $\frac{E_AA_A + E_BA_B + E}{A_A + A_B + A}$	$\frac{A_{C}A_{C} + E}{A_{C} + A_{D}}$	DAD				
Pre-develop 1	=	0.83 in.		Developed E	=					
On-Site Volume	of Ru	noff: V360 =		E*A / 12						
Pre-deveop V ₃	=	20948 CF		Developed V ₃₆₀	=					
On-Site Peak Di For Precipitation Q _{pA}	ischarg Zone =	e Rate: Qp = Q 1 1.54 2.16	_{pA} A _A +Q _I	_{pB} A _B +Q _{pC} A _C +Q _{pD} A Q _{pC}	 AD / 43,50 	50 2.87				
Q_{pB}	=	2.10	OFC	Q_{pD}		4.12				
Pre-develop Q	=	17.1	CFS	Developed Q _p	=					

MAP	C.C	D.A VICINITY	MAP (G-12 & G-	13	N					ION]
		NR-PO-B Area NB-PO-B	A46 248 2010 2477 280 248 248 2010 248 2010 RA 2100 248 2010 210 210 248 248 210 210 248 248 210 210 248 210 248 248	23 RA 5 00 2 20 RA 1 00 1 00 00 00 00 00 00 00 00 00 00 00	10 RA (D) 10 RA (D)	INFORMATI	DATE	DATE	DATE	DATE			
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	A ADDR -	44.4 42 43.1 4	1 1	R-MH a DDN a b c c c c c c c c c c c c c	Image: state of the s	BENCH MARKS	BASED UPON AGRS MONUMENT	3 NAVD 1988. HAVING AN	973.25				DATE: JULY 26, 2024
ES		PROJECT IN	IFOR	MATION			S ARE	7-F1	0F 4				
ESSARY TO F CONCRETE, TOP ROVED GRADING &	PROPE BOUND THE EA RESIDE PROPO	RTY: THIS PROPERTY IS A PRE ED TO THE NORTH BY THE CAI ST BY RIO GRANDE BLVD NW, INTIAL PROPERTY, AND TO THE SED IMPROVEMENTS: THE PRO	VIOUSLY UND MPBELL DITCH TO THE SOUTI E WEST BY THI DPOSED IMPRI	EVELOPED PROPERT & CHEROKEE RD NW H BY A DEVELOPED E DURANES ACEQUIA OVEMENTS INCLUDE	Υ V, ΤΟ Δ.		ELEVATION	STAMPED 1	ELEVATION				
NEERS E ISSUED. /ITHOUT AN	PARKIN FOR WA	IG AND PAVING, AND AN IRRIGA	ATION DITCH V OUT THE SITE	VITH ASSOCIATED PC	NDS	~	ATE						
STORMWATER TO ND SWALES TO	<u>AREA T</u> LEGAL:	O BE DEVELOPED: 6.93 ACRES	S± F TRACTS A-1	A-2 B-1 & B-2		IATIO	0						RSEF
PROPERLY.	BENCH 17-F13 I	MARK: ELEVATIONS ARE BASE NAVD 1988. HAVING AN ELEVAT	D UPON AGRS TION OF 4973.2	MONUMENT STAMPE	ED	NDRN NDT							
	9/26/200 AREAS	WITH REDUCED FLOOD RISK E	IN FLOOD ZOI	NE 'X' DESIGNATED A	S								TRE
S	<u>SURVE</u>	YOR: RIO GRANDE SURVEYING <u>AGE PLAN CONCEPT</u> : IN THE PR TED TO MULTIPLE PONDS THRO	CO., POB 715 COPOSED CON	5, ABQ, NM 87194 DITION WATER IS SITE POND CAPACIT	ry I	SURV							Ш Ц Ц
mn1 💌	EXCEE	DS 100-YEAR 10-DAY VOLUME.			-		Z						GRAN
-		LEG	END			SEAL		Server 1 E	VE	L. C	CAL WARDING		300
		94	- PROPOS AVAILAE	SED 1.0' CONTOUR BLE PONDING		RAL	129 LIO		н ма (150	88	NRT HE		
_		ADA CO	MPLIA	NCE		HITECTU	E	Net O Ar	POFES	SIONAL SIONAL	2.		
	<u>SIDEW</u> TARGE 2%. LC	/ <u>ALK(S) AND RAMP(S):</u> ET CROSS SLOPE = 1% TO 1.5 NGITUDINAL SLOPE SHALL N	%. CROSS SL OT EXCEED 5	OPE SHALL NOT EXO %.	CEED	ARC				7-	31-2	024	X
	ACCES TARGE EXCEE SHALL	SSIBLE RAMP(S): T LONGITUDINAL SLOPE = 7% D 12:1 (8.3%). TARGET CROS NOT EXCEED 2%.	% LONGITUDIN S SLOPE = 1%	NAL SLOPE SHALL N 6 TO 1.5%. CROSS S	OT LOPE				ВΥ		2024	2024	
	ACCES TARGE ANY D	<u>SSIBLE PARKING:</u> ET SLOPE = 1% TO 1.5%. SLOF IRECTION	PE SHALL NOT	EXCEED 2% SLOPE	IN						7/26/2	7 /26 /2 7 /26 /2	CT#
ON PONDING AREAS						S			(0)				SOJE
- THE NON		Isaacso	on& Arfma	an, Inc.		ISION			ARKS		DA	- PDA	L L
ULY 26, 2024			128 Mc	onroe Street NE		REV			REV				
IS = 6.93 ACRE			Albuquer 05-268-8828 ע	que, NM 87108 www.iacivil.com							B	B/BK	
EXCESS PREC nent SF % Precip. Zone 54 3% $E_A = 0.5$ 084 60% $E_B = 0.7$ 578 32.0% $E_C = 0.9$	21 P: 1 5 3 5	P			-				D. DATE		SIGNED BY: BJ	AWN BY: BJ	
$\begin{array}{c cccc} \hline 090 & 5.0\% \\ \hline 806 & 100\% \end{array} \qquad \qquad E_{\rm D} = 2.2 \\ \end{array}$	4	plandcollab	.com CIT	505 268 2266 Y OF ALBUQ	UERQI	JE			Ž		DES	DR	
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					Design te								
		City Project No		Zone Man No	Last Upda		Shee	t ~					
17.1 CFS				G12, G	13	Ň		· C	G	-1(0		





