# CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

February 22, 2023

Åsa Nilsson-Weber, P.E. Isaacson & Arfman, P.A. 128 Monroe St. N.E Albuquerque, NM 87108

RE: 5504 Escondina Lane NW Grading and Drainage Plan Engineer's Certification Date: 02/13/23 Engineer's Stamp Date: 12/07/22 Hydrology File: F14D076E

Dear Ms. Nilsson-Weber:

PO Box 1293 Based upon the information provided in your submittal received 02/13/2023, the Grading and Drainage Plan is approved for Building Permit and Building Pad Certification for 5504 Escondina Lane NW. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Albuquerque

### PRIOR TO CERTIFICATE OF OCCUPANCY:

 NM 87103
 Engineer's Certification, per the DPM Part 6-14 (G): Engineer's Certification Checklist for Subdivision and Part 6-14 (H): Required Certification Language is required.

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

Sincerely,

Renée C. Brissette

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



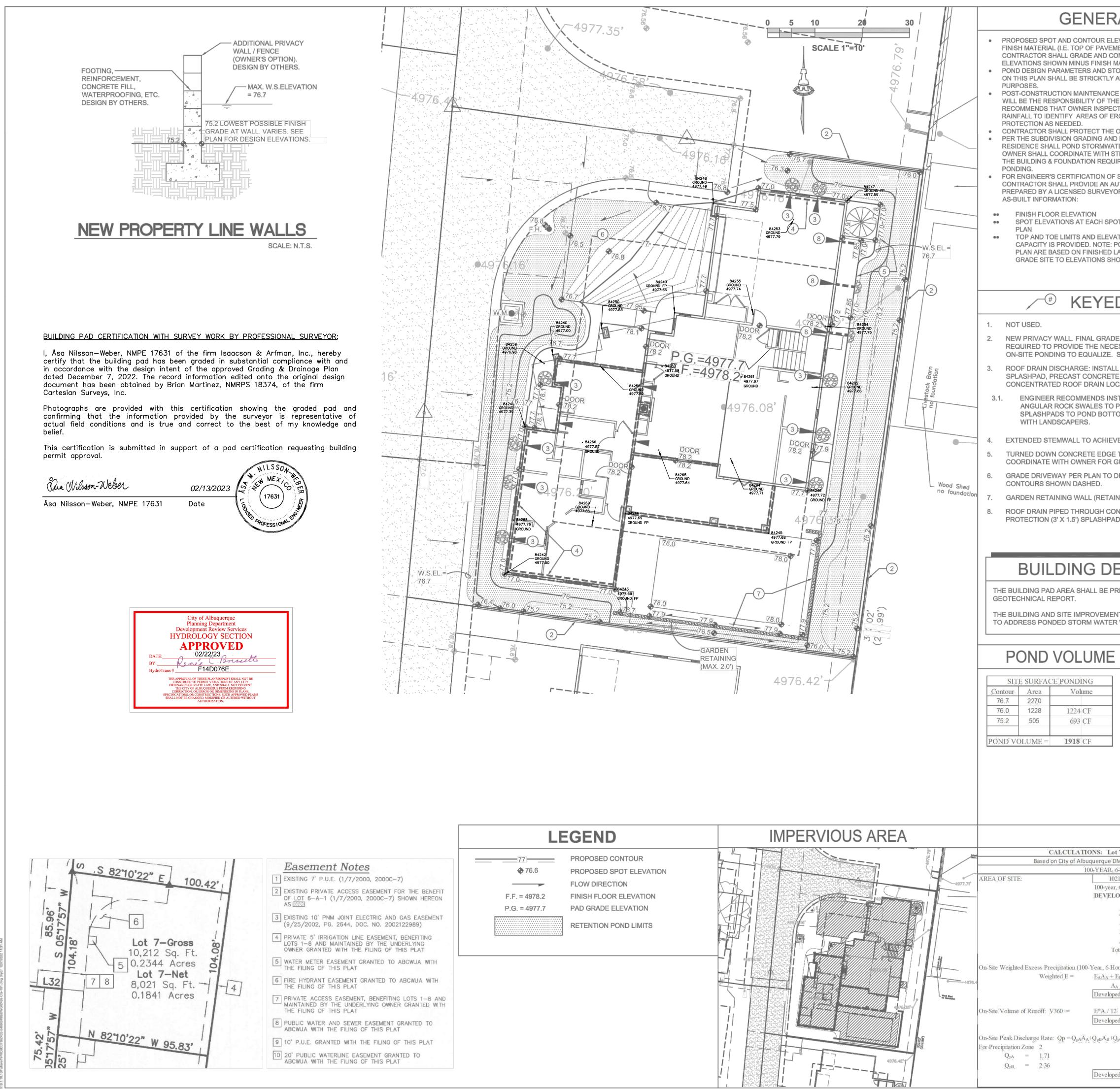
## **City of Albuquerque**

Planning Department

Development & Building Services Division

### DRAINAGE AND TRANSPORTATION INFORMATION SHEET

Project Title: <u>5504 Escondida Lane</u> Bu	ilding Permit #Hydrology Fi	le # <u>F14D076E</u>
DRB# PR-2018-001501	EPC#	
Legal Description: Lot 7, Bosque Escondido	City Address OR Parcel 5504 Es	scondida Ln. NW
Applicant/Agent: Isaacson & Arfman, Inc.	Contact: <u>Åsa Nilsson-Weber o</u>	<u>r Bryan J. Bo</u> bri
Address: 128 Monroe Street NE	Phone: (505) 268-8828	-
Email: asaw@iacivil.com		
byranb@iacivil.com		
Applicant/Owner:	Contact:	
Address:		
Email:		
TYPE OF DEVELOPMENT:PLAT (#of lots)         RE-SUBMITTAL:YESX_NO	RESIDENCE X DRB SITE ADMI	N SITE:
<b>DEPARTMENT:</b> TRANSPORTATION Check all that apply:	X HYDROLOGY/DRAINAGE	
TYPE OF SUBMITTAL:	TYPE OF APPROVAL/ACCEPTANCE	SOUGHT:
ENGINEER/ARCHITECT CERTIFICATION	<u>X</u> BUILDING PERMIT APPROVA	L
X_PAD CERTIFICATION	CERTIFICATE OF OCCUPANC	Y
CONCEPTUAL G&D PLAN	CONCEPTUAL TCL DRB APPR	OVAL
GRADING PLAN	PRELIMINARY PLAT APPROV	AL
DRAINAGE REPORT	SITE PLAN FOR SUB'D APPRO	VAL
DRAINAGE MASTER PLAN	SITE PLAN FOR BLDG PERMIT	[ APPROVAL
FLOOD PLAN DEVELOPMENT PERMIT APP.	FINAL PLAT APPROVAL	
ELEVATION CERTIFICATE	SIA/RELEASE OF FINANCIAL	GUARANTEE
CLOMR/LOMR	FOUNDATION PERMIT APPRO	VAL
TRAFFIC CIRCULATION LAYOUT (TCL)	GRADING PERMIT APPROVAL	
ADMINISTRATIVE	SO-19 APPROVAL	
TRAFFIC CIRCULATION LAYOUT FOR DRB	PAVING PERMIT APPROVAL	
APPROVAL	GRADING PAD CERTIFICATIO	N
TRAFFIC IMPACT STUDY (TIS)	WORK ORDER APPROVAL	
STREET LIGHT LAYOUT	CLOMR/LOMR	
OTHER (SPECIFY)	FLOOD PLAN DEVELOPMENT	PERMIT
PRE-DESIGN MEETING?	OTHER (SPECIFY)	
DATE SUBMITTED: 02/13/2023	_	



Contour	Area	Volume	
76.7	2270		
76.0	1228	1224	CF
75.2	505	693	CF

AL NOTES	VICINITY MAP F-14	1C.	tants	7108 Com
EVATIONS SHOWN REPRESENT TOP OF MENT, TOP OF LANDSCAPING, ETC.). OMPACT SUBGRADE BASED ON MATERIAL THICKNESSES. ORMWATER CONTROL MEASURES SHOWN ADHERED TO FOR CERTIFICATION E FOR PRIVATE STORMWATER FACILITIES E FACILITIES OWNER. ENGINEER CT THE SITE YEARLY AND AFTER EACH ROSION. ADD ADDITIONAL EROSION		0	Civil Engineering Consultants	126 Monroe Street NE Albuquerque, NM 87108 505-268-8828   www.iacivil.com
ON-SITE INFILTRATION TRENCHES ('IT'). D DRAINAGE PLAN, THE PROPOSED TER WITHIN 10' OF THE RESIDENCE. TRUCTURAL DESIGNER WITH REGARDS TO IREMENTS RELATING TO THE ADJACENT		Isaacs		
SUBSTANTIAL COMPLIANCE, UTOCAD FORMAT AS-BUILT SURVEY OR WHICH INCLUDES THE FOLLOWING		This design concepts ai remain the pi Arfman, Inc.	re owned roperty of Isa and no part	ns, and by and aacson & t thereof
OT ELEVATION SHOWN ON THE APPROVED ATIONS FOR PONDS TO ENSURE REQUIRED POND ELEVATIONS PROVIDED ON THIS ANDSCAPE CONDITION. CONTRACTOR TO OWN MINUS MATERIAL THICKNESSES.	Macarthur Elementary         Macarthur	Isaacson & A	orporation 1 atsoever exc n permissi	for any cept with ion of
D NOTES	PROJECT INFORMATION:	NEW I	1037 10	
ES SHOWN AT BASE OF WALL ARE ESSARY POND VOLUME AND TO PERMIT SEE SECTION THIS SHEET.	PROPERTY: THE SITE IS AN UNDEVELOPED RESIDENTIAL LOT AND IS BOUNDED TO THE WEST BY AN ACCESS ROAD, THE EAST BY A DEVELOPED RESIDENTIAL LOT, AND TO THE NORTH AND SOUTH BY AN UNDEVELOPED RESIDENTIAL LOT. PROPOSED IMPROVEMENTS: THE PROPOSED IMPROVEMENTS INCLUDE A	Engineer	Advertise of the second	LOLL
L EROSION PROTECTION (3' DIA ROCK E SPLASHPAD, OR EQUAL) AT ALL CATIONS. STALLING 2' WIDE X 8" THICK 4" AVG. DIA.	SINGLE FAMILY RESIDENCE WITH ACCESS DRIVE AND ASSOCIATED LANDSCAPING AND PONDING. LEGAL: LOT 7 OF BOSQUE ESCONDIDO, BERNALILLO COUNTY, NM			
PASS CONCENTRATED ROOF FLOW FROM OMS (OWNER'S OPTION). COORDINATE	AREA: 0.2344 ACRES <u>BENCHMARK</u> : ACS MONUMENT DOUGLAS". ELEVATION = 4975.078 (NAVD 1988)		e 07	
/E GRADES THIS AREA. TO ACHIEVE GRADES THIS AREA. GUARDRAIL (OWNER'S OPTION). DRAIN AS SHOWN. 1/10TH-FOOT	OFF-SITE: NO OFF-SITE DRAINAGE AFFECTS THIS PROPERTY. <u>FLOOD HAZARD</u> : PER FEMA FIRM MAP #35001C0119G, EFFECTIVE DATE 09/26/2008, THE SITE IS LOCATED WITHIN FLOODZONE 'X' SHADED WHICH IS DEFINED AS AREAS WITH REDUCED FLOOD RISK DUE TO LEVEE.		a Lalle M, 871	
NING < 2.0') TO ACHIEVE GRADES SHOWN. NCRETE WALK. INSTALL EROSION D, OR EQUAL.	DEFINED AS AREAS WITTREDUCED FLOOD RISK DOL TO LEVEL. DRAINAGE PLAN CONCEPT: THE SITE IS PART OF THE BOSQUE ESCONDIDO SUBDIVISION APPROVED BY HYDROLOGY WITH A FLAT GRADING SCHEME AS FOLLOWS:		sconulua rque NM	
ESIGN NOTE REPARED AND COMPACTED PER THE NT DESIGN SHALL INCLUDE MEASURES WITHIN TEN FEET.	<ul> <li>PAD GRADE = 4977.7 (MIN). OVERFLOW ELEVATION 4976.67.</li> <li>EACH LOT IS REQURIED TO STORE THE 100-YEAR 10-DAY VOLUME.</li> <li>ALL ROOF FLOW WILL BE DIRECTED TO THE STORMWATER RETENTION PONDS.</li> <li>WALLS WILL BE CONSTRUCTED ON THE PROPERTY LINES TO CONTAIN THE 100-YEAR 10-DAY MAXIMUM RETENTION VOLUME.</li> <li>SINCE ALL STORMWATER IS RETAINED ON THE PROPERTY, NO SEPARATE STORM WATER QUALITY VOLUME IS REQUIRED.</li> </ul>	ZON F	uque	
CALCULATIONS	PROPOSED IMPERVIOUS AREA			
Volume of 100-yr, 10-day ponding required = 1,868 CF TOTAL VOLUME PROVIDED	THE PROPOSED IMPERVIOUS AREA (SHOWN SHADED) = 5,044 SF INCLUDING PATIOS, WALKS, AND DRIVEWAY. THE STREET IS PERVIOUS	REVIEW	A 2496 - BJB/ANW	ÅNW 04-2022
= 1918 CF	WITH AGGREGATE BASE COURSE PAVING. THE PROPOSED IMPERVIOUS AREA IS APPROXIMATELY 49% OF THE TOTAL PROPERTY AREA.	DESIGN REV	NUMBER: IA	
	MASTER DRAINAGE PLAN CALCULATED 100-YEAR 10-DAY VOLUME FOR THIS LOT = 1,815 CF (BASED ON IMPERVIOUS AREA OF 4,595 SF).		PROJECT NL FILE: DRAWN BY:	
	THE REQUIRED 100-YEAR 10-DAY VOLUME INCREASES TO 1,902 CF BASED ON THE PROPOSED IMPERVIOUS AREA.	ISSUE	PR0 FILE DRA	CHEC DATE:
	SEE POND VOLUME CALCULATIONS AT LEFT.	otion		
HYDROLOGY CA	LCULATIONS	Description		
t 7, Bosque Escondido : May 11, 2022 MP, Article 6-2 Hydrology dated June 26, 2020 6-HOUR CALCULATIONS	100-year 10-day Storm Volume			
210     SF     =     0.2344     ACRE       .,6-hour	V360 (from previous calculation)     1343       Area Treatment D (SF)     5044       Zone     21	Date		
Drector Inc.Treatment SF % Precip. Zone:Area A $=$ $0$ $0\%$ Area B $=$ $4145$ $41\%$ EB $=$	2 0.62 For 100-year 10 Day Storms:	No		
Area D     = $4143$ $4176$ $E_B$ Area C     =     1021     10% $E_C$ Area D     =     5044     49% $E_D$ otal Area     =     10210     100.0%	1.03	SHEET T		
our Storm) $E_BA_B + E_CA_C + E_DA_D$	$\frac{\text{Zone}}{\text{Ploday}} = \frac{2}{3.62}$			
$\frac{E_BAB + E_CAC + E_DAD}{A + A_B + A_C + A_D}$ ed E = 1.58 in.	$\begin{array}{c c} P_{360} & = & 2.29 \\ \hline $	1	ading a nage P	
$ed_{V_{360}} = 1343 \text{ CF}$	Total Volume (V10 day) = 1902			
$Q_{pc}A_{c}+Q_{pD}A_{D} / 43,560$ $Q_{pc} = 3.05$			NUMBER	
$Q_{pD} = 4.34$ ed $Q_p = 0.8$ CFS		CC	G-10	)1