## CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

December 19, 2022

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

RE: TLC Batch Plant Grading & Drainage Plans Engineer's Stamp Date: 12/01/22 Hydrology File: G15D205

Dear Ms. Donart:

PO Box 1293 Based upon the information provided in your submittal received 12/05/2022, the Grading & Drainage Plans are approved for Grading Permit and Foundation Permit. Once the grading and foundations of the project is complete, please provide an as-built for the City's records since there is no CO attached to the project.

Albuquerque Please provide the executed paper Drainage Covenant (latest revision) printed on one-side only with Exhibit A and a check for **\$25.00** made out to "**Bernalillo County**" for the stormwater quality ponds per Article 6-15(C) of the DPM to Hydrology for review at Plaza de Sol. Once the review is done, Hydrology will send back an email stating our approval/comments.

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 (Dough Hughes, PE, <u>jhughes@cabq.gov</u>, 924-3420) 14 days prior to any earth disturbance.

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**

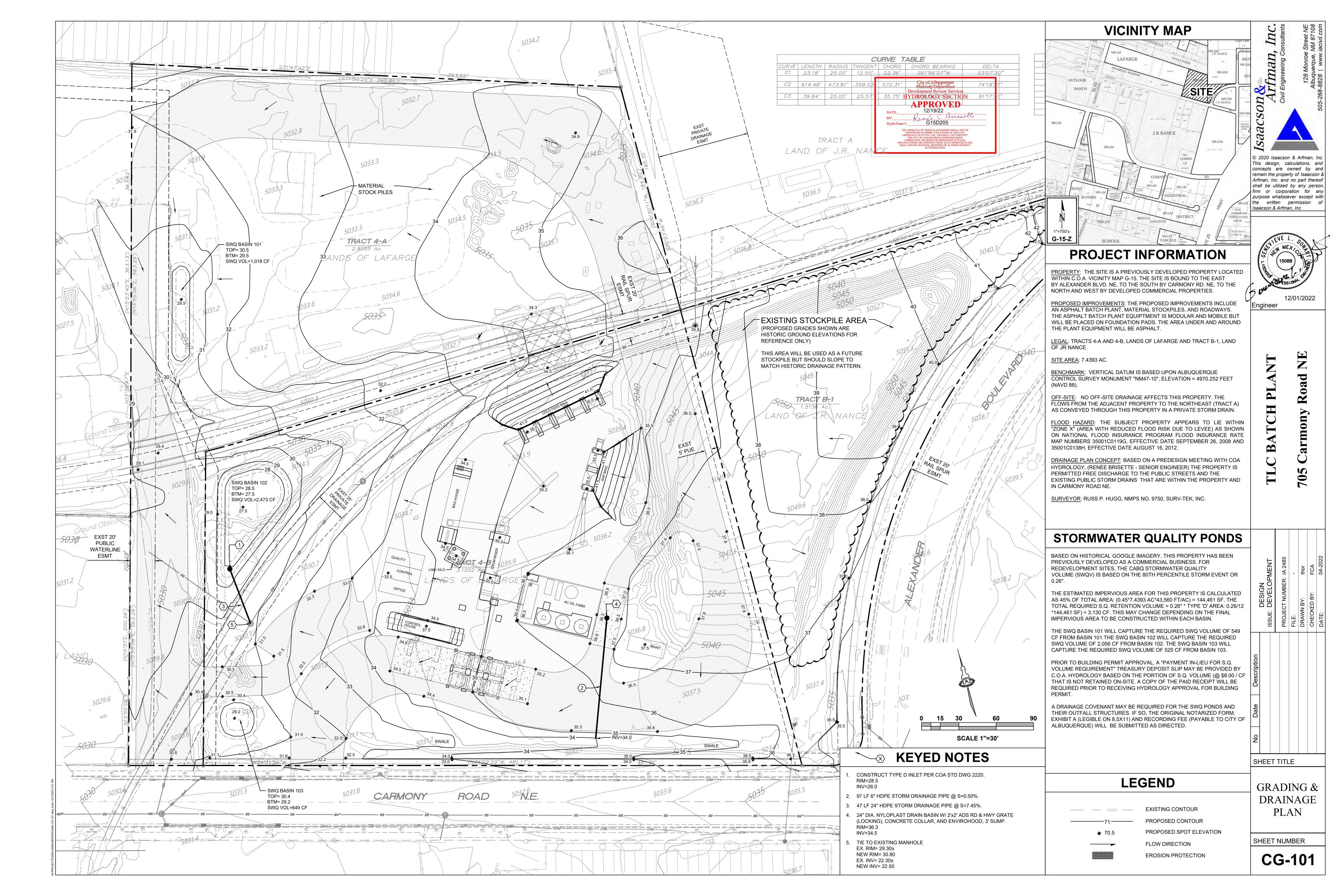
Planning Department

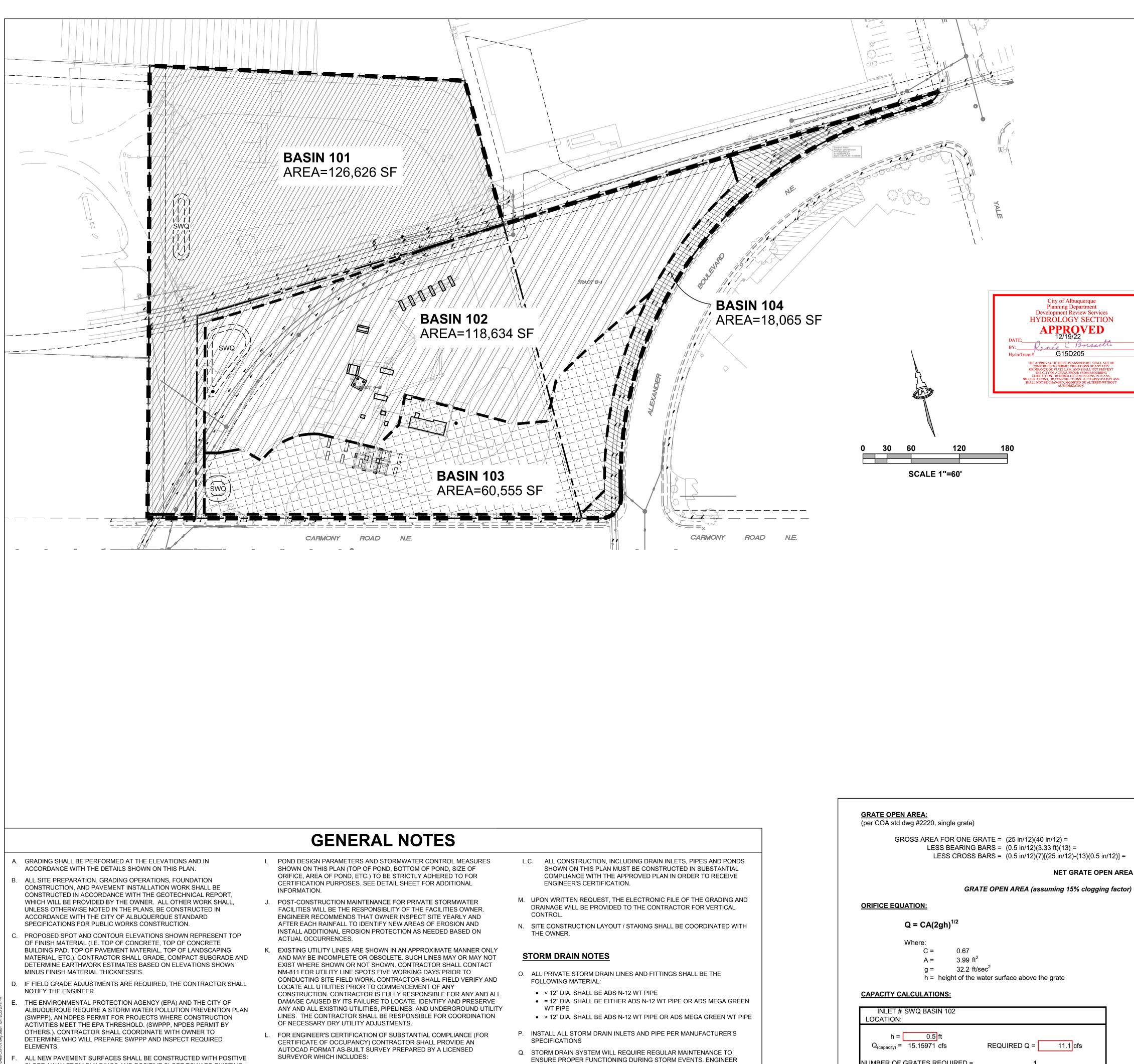
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET

Project Title: TLC Batch Plant Building	Permit #	Hydrology File #G-15
DRB#	EPC#	
Legal Description: TRACTS 4-A AND 4-B, LANDS OF LAFARGE AND TRACT B-1, LAND OF JR NANCE	City Addre	ss OR Parcel 705 Carmony Rd NE
Applicant/Agent:Isaacson & Arfman, Inc.	<b>Contact:</b>	Genny Donart / Justin Thor Simenson
Address: 128 Monroe St NE, ABQ , NM 87108		(505) 268-8828
Email: gennyd@iacivil.com / thors@iacvicil.com		
Applicant/Owner: TLC Plumbing & Heating	Contact: _	Paul Layer
Address: 5000 Edith Blvd. NE Albuquerque, NM 87107	_ Phone:	(505) 761-5531
Email:paull@tlcplumbing.com	_	
TYPE OF DEVELOPMENT:       PLAT (#of lots)       RE         RE-SUBMITTAL:       YES       NO         DEPARTMENT:       TRANSPORTATION       X		
Check all that apply:		
TYPE OF SUBMITTAL: TYPE	OF APPROV	AL/ACCEPTANCE SOUGHT:
ENGINEER/ARCHITECT CERTIFICATION	BUILDIN	G PERMIT APPROVAL
PAD CERTIFICATION	CERTIFIC	CATE OF OCCUPANCY
CONCEPTUAL G&D PLAN	CONCEP'	TUAL TCL DRB APPROVAL
X GRADING PLAN	PRELIMI	NARY PLAT APPROVAL
DRAINAGE REPORT	SITE PLA	N FOR SUB'D APPROVAL
DRAINAGE MASTER PLAN	SITE PLA	N FOR BLDG PERMIT APPROVAL
FLOOD PLAN DEVELOPMENT PERMIT APP.	FINAL PI	LAT APPROVAL
ELEVATION CERTIFICATE		EASE OF FINANCIAL GUARANTEE
CLOMR/LOMR		TION PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL)		G PERMIT APPROVAL
ADMINISTRATIVE	SO-19 AP	
TRAFFIC CIRCULATION LAYOUT FOR DRB		PERMIT APPROVAL
APPROVAL		G PAD CERTIFICATION
TRAFFIC IMPACT STUDY (TIS)		RDER APPROVAL
STREET LIGHT LAYOUT	CLOMR/I	
OTHER (SPECIFY) PRE-DESIGN MEETING?		LAN DEVELOPMENT PERMIT SPECIFY)

DATE SUBMITTED: <u>12/01/2022</u>





- SLOPE AWAY FROM BUILDINGS AND POSITIVE SLOPE TOWARD EXISTING AND/OR PROPOSED DRAINAGE PATHS. PAVING AND ROADWAY GRADES SHALL BE ±0.1' FROM PLAN ELEVATIONS. BUILDING PAD ELEVATION SHALL BE ±0.05' FROM PLAN ELEVATION.
- G. WHERE GRADES BETWEEN NEW AND EXISTING ARE SHOWN AS 'MATCH' OR '±', TRANSITIONS SHALL BE SMOOTH.
- H. PAD ELEVATIONS SHALL BE WITHIN 0.1+.

- L.A. AS-BUILT SPOT ELEVATIONS AT EACH DESIGN SPOT ELEVATION SHOWN ON THE APPROVED PLAN;
- L.B. TOP AND BOTTOM ELEVATIONS AS REQUIRED TO DEFINE THE PERIMETER OF PONDS (TO BE USED BY ENGINEER TO CALCULATE AS-BUILT VOLUME PROVIDED);

ALL CONSTRUCTION, INCLUDING DRAIN INLETS, PIPES AND PONDS
SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN SUBSTANTIAL
COMPLIANCE WITH THE APPROVED PLAN IN ORDER TO RECEIVE
ENGINEER'S CERTIFICATION.

RECOMMENDS THAT OWNER PUT IN PLACE INSPECTION AND MAINTENANCE REQUIREMENTS SCHEDULED TO OCCUR YEARLY AND AFTER MAJOR STORM EVENTS

GROSS AREA FOR ONE GRATE = $(25 \text{ in}/12)(40 \text{ in}/12) =$ LESS BEARING BARS = $(0.5 \text{ in}/12)(3.33 \text{ ft})(13) =$ LESS CROSS BARS = $(0.5 \text{ in}/12)(7)[(25 \text{ in}/12)-(13)(0.5 \text{ in}/12)] =$ NET GRATE OPEN AREA GRATE OPEN AREA (assuming 15% clogging factor ORIFICE EQUATION: Q = CA(2gh) <sup>1/2</sup> Where: C = 0.67 A = 3.99 ft <sup>2</sup> g = 32.2 ft/sec <sup>2</sup> h = height of the water surface above the grate CAPACITY CALCULATIONS: INLET # SWQ BASIN 102 LOCATION: h = 0.5 ft Q <sub>(capacity)</sub> = 15.15971 cfs REQUIRED Q = 11.1 cfs NUMBER OF GRATES REQUIRED = 1		dwg #2220, singl	- /				
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5,029.50	552.73	N/A	N/A	0.00	N/A	0.00	51 980	m	ginee		128 M	endne
5,030.50	1,570.33					1018.24	8	<u>1</u>	'vil En			Al
	500		AVG END	E STORAGE		CONIC	Saacson	4	Ö			, 202 202
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5,030.40	855.74	1.20	680.62	680.62	649.07	649.07	Isaacs	son &	Arfme	<u>an, Ir</u>	<u>1С.</u>	
	AREA OF SITE:		100-YEA 100- DEV	ATIONS: TLC Ba R, 6-HOUR CALCU 324056 SF year, 6-hour <b>VELOPED FLOWS</b> Area A = Area B = Area C = Area D = Total Area =	JLATIONS = 7 S: Treatment SF 0 0 0 0 0 0 121666 3	2.44       ACRE <b>EXCESS PRECIP:</b> %       Precip. Zone       2 $\overline{0}$ $E_A = 0.62$ $E_B = 0.80$ $\overline{2}$ $E_C = 1.03$ $E_D = 2.33$ $\overline{00}$ $E_D = 2.33$		CH PLANT	r       		armony Road NE	
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	On-Site Peak Disch	arge Rate: (	$Qp = Q_{pA}A_A + Q_{pB}A$	$A_{B}+Q_{pC}A_{C}+Q_{pD}A_{D}$ / 4	43,560							
	For Precipitation Zo $Q_{pA} =$			Q <sub>pC</sub> =	3.05							
	$Q_{pB} =$			Q <sub>pD</sub> =	4.34							
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1.80 0.45 <b>4.69</b>	Date Prepared: Date Modified: Precipitation Zone: BASIN NO. 10 Area of basin flows = The following calcula BASIN NO. 10 Area of basin flows =	5/3/2022 $0$ $2$ For Zone 2 $EA =$ $EB =$ $EC =$ $ED =$ 01 $12$ ations are base $Sub-basin$ $Weigh$ $Sub-basin$ $Sub-basin$ $02$ $= 1$ $1$ $12$ $12$ $13$	$0.62$ $0.80$ $1.03$ $2.33$ $2.6626$ SF ed on Treatment %'s Weighted Excess Pr nted E = Volume of Runoff: V_{360} = Peak Discharge Rate QP = DES 18634 SF ed on Treatment %'s Weighted Excess Pr	SCRIPTION = s as shown in table to the recipitation: 1.29 in. 13612 CF e: 9.6 cfs SCRIPTION = s as shown in table to the recipitation:	$ \begin{array}{rcl}     QpB = & 2 \\     QpC = & 3 \\     QpD = & 4 \\ \hline      \hline     \hline     \hline     \hline     \hline     \hline      \hline     \hline      \hline      \hline      \hline      \hline     \hline      \hline     \hline     \hline     \hline     \hline      \hline     \hline     \hline      \hline       $	0.26 $0.26$			NUMBER: IA		AWN BY:	KED BY:
1.80 0.45 <b>4.69</b>	Date Prepared: Date Modified: Precipitation Zone: BASIN NO. 10 Area of basin flows = The following calcula BASIN NO. 10 Area of basin flows =	5/3/2022 $0$ $2$ For Zone 2 $EA =$ $EB =$ $EC =$ $ED =$ $01$ $= 12$ $3ub-basin$ $Weigh$ $Sub-basin$ $Sub-basin$ $02$ $= 1$ $ations are base$ $Sub-basin$ $Weigh$	$\begin{array}{c c} 0.62\\ 0.80\\ 1.03\\ 2.33\\ \hline \textbf{DES}\\ \hline 26626 & SF\\ ed on Treatment %'s\\ Weighted Excess Printed E = \\ \hline Volume of Runoff:\\ \hline V_{360} = \\ \hline \textbf{Peak Discharge Rate}\\ \hline QP = \\ \hline \textbf{DES}\\ \hline 18634 & SF\\ ed on Treatment %'s\\ \hline Weighted Excess Printed E = \\ \hline Volume of Runoff:\\ \hline Weighted Excess Printed E = \\ \hline Volume of Runoff: \\ \hline \end{array}$	SCRIPTION = a as shown in table to the recipitation: 1.29 in. 13612 CF e: 9.6 cfs SCRIPTION = a as shown in table to the recipitation: 2.07 in.	$ \begin{array}{c}     QpB = 2 \\     QpC = 3 \\     QpD = 4 \\ \hline \\     \hline \\     \hline \\     Control \\     \hline \\      Control \\     \hline \\      \hline \\      Control \\     \hline \\      \hline \\      \hline \\      Control \\     \hline \\      \hline \\         Control \\     \hline \\         Control \\     \hline \\         Control \\     \hline \\         Control \\     \hline \\         Control \\     \hline \\         Control \\     \hline \\         Control \\         Control \\     \hline \\         Control \\         Control \\     \hline \\         Control \\         Contr$	0.26 $0.26$	ate Description		NUMBER: IA		AWN BY:	KED BY:
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