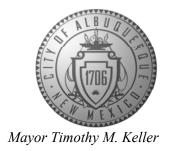
CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director



October 29, 2021

Ronald Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

RE: Encompass Health Parking Lot Expansion

7000 Jefferson St NE Grading and Drainage Plan

Engineer's Stamp Date: 08/10/2010

Hydrology File: D17D061C1

Dear Mr. Bohannan:

PO Box 1293 Based upon the information provided in your submittal received 09/08/2021, the Grading &

Drainage Plan is approved for Grading Permit and Paving Permit. Once the grading and paving

of the project is complete, please provide an as-built for Hydrology's records.

Albuquerque 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

NM 87103 Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to

any earth disturbance.

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

Sincerely,

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

Renée C. Brissette

Planning Department



City of Albuquerque

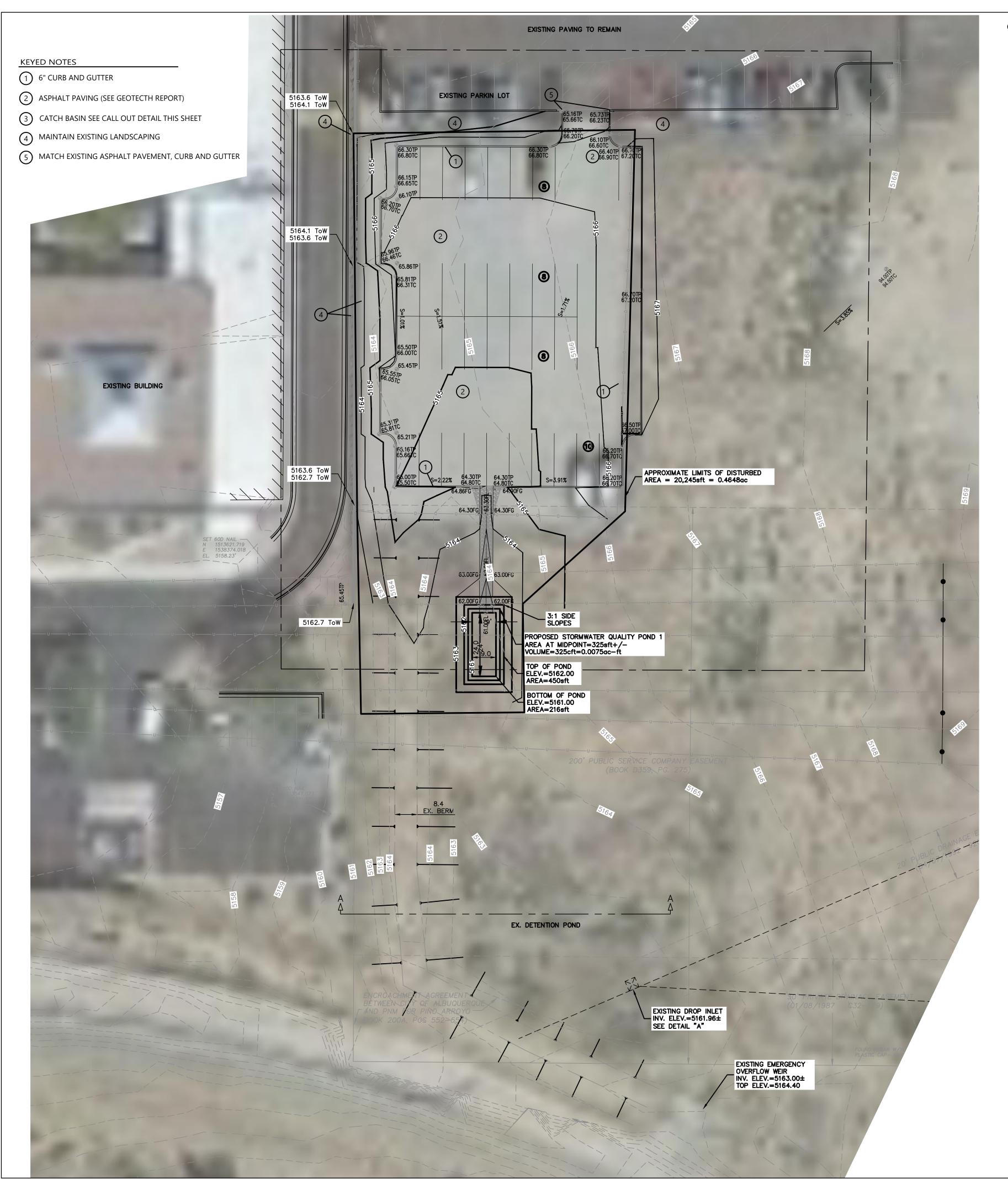
Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

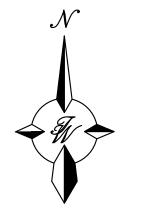
-	•	Hydrology File #:
DRB#: A Portion of Tract 4B-1 C		Work Order#:
7000 lofferson		
City Address: 7000 Jenerson		
Applicant: Tierra West, LLC		Contact: J. Miller
Address: 5571 Midway Park Place NE Albuquerq		
Phone#: 505-858-3100	Fax#: 505-858-11	E-mail: jmiller@tierrawestllc.com
Other Contact:		Contact:
Address:		
		E-mail:
		SIDENCE DRB SITE _X_ ADMIN SITE
IS THIS A RESUBMITTAL? Yes	XNo	
DEPARTMENT TRANSPORTATION	X HYDROLOG	GY/DRAINAGE
Check all that Apply: TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION	_X	PE OF APPROVAL/ACCEPTANCE SOUGHT: BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY
PAD CERTIFICATION CONCEPTUAL G & D PLAN X GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMIT A ELEVATION CERTIFICATE	PPLIC	PRELIMINARY PLAT APPROVAL SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE
CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT X OTHER (SPECIFY) Paving PRE-DESIGN MEETING?		FOUNDATION PERMIT APPROVALGRADING PERMIT APPROVALSO-19 APPROVALPAVING PERMIT APPROVALGRADING/ PAD CERTIFICATIONWORK ORDER APPROVALCLOMR/LOMRFLOODPLAIN DEVELOPMENT PERMITOTHER (SPECIFY)
COA STAFF:		TAL RECEIVED:

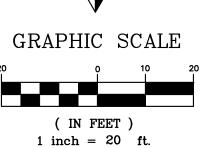
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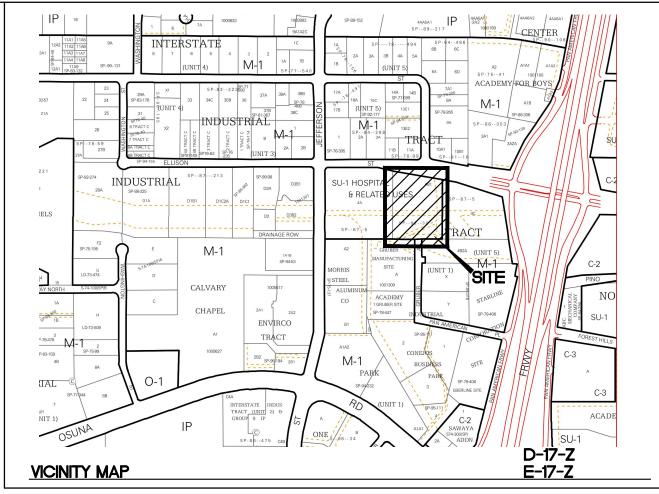


CAUTION

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

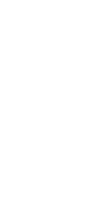


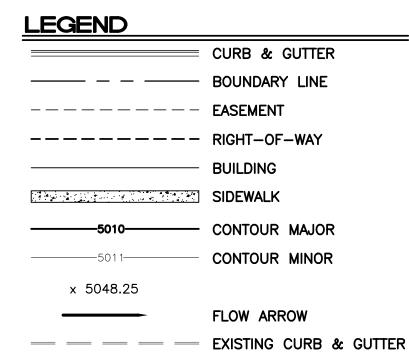




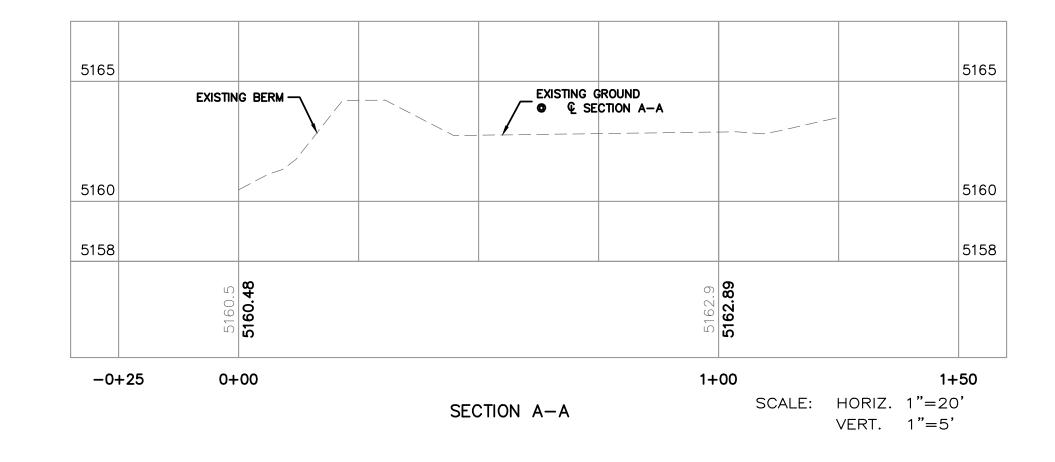
LEGAL DESCRIPTION:

CORRECTION PLAT OF TRACT 4B-1 AND 4B-2 (04/07/1992, VOL. 92-C, FOLIO 50) ELEVATION DATUM IS BASED ON NAVD 1988 FROM AGRS MONUMENT "12_E17", PUBLISHED ELEVATION (FEET) = 5118.702





EXISTING BOUNDARY LINE EXISTING CONTOUR MAJOR EXISTING CONTOUR MINOR EXISTING SPOT ELEVATION x 5048.25 EXISTING LIGHT STANDARD



NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.

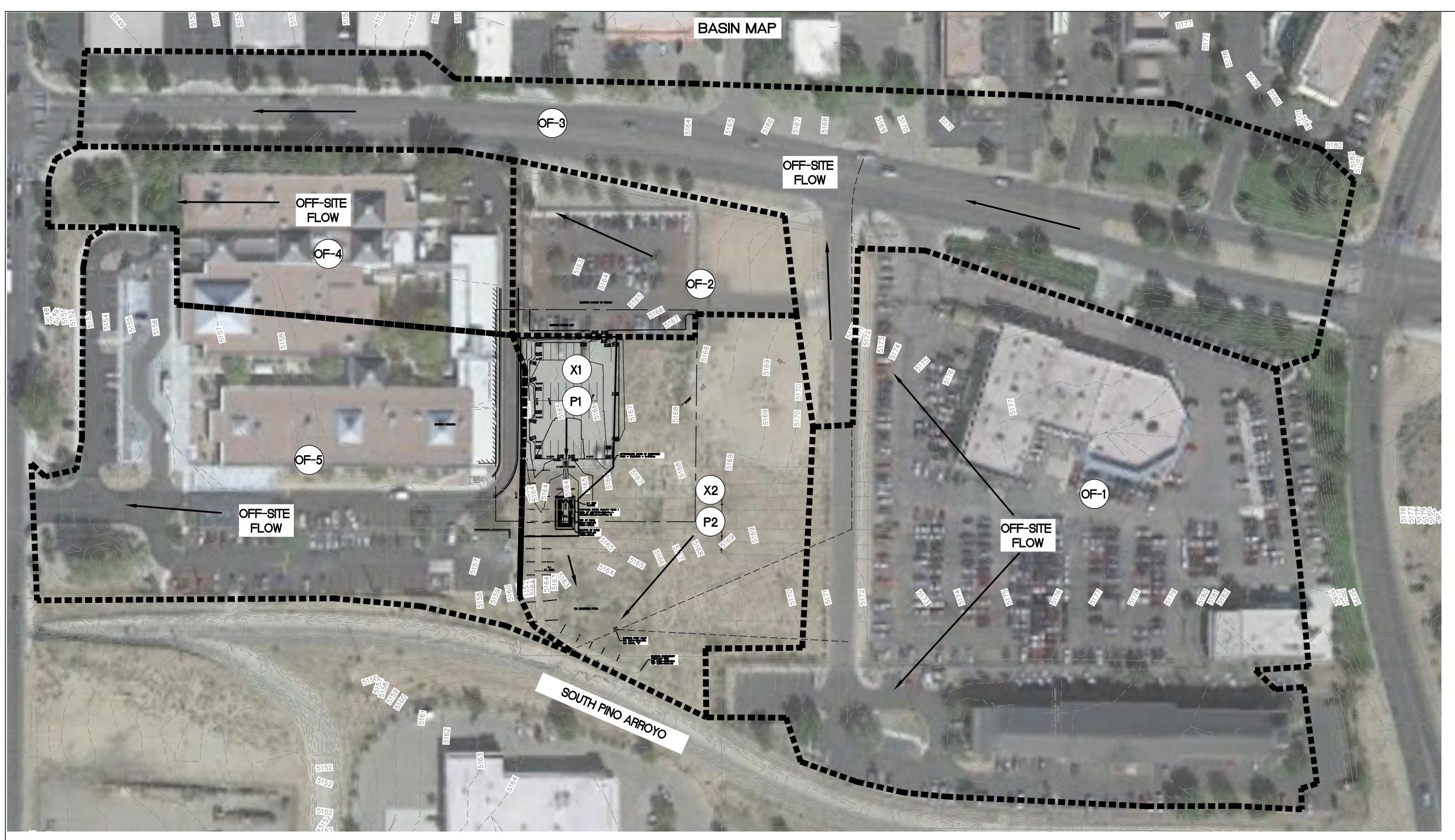
HYDROLOGY SECTION APPROVED

DATE: 10/29/21
BY: D17D061C1

- 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HERON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
- 3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
- 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

ENGINEER'S	EN
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DR. BOHANNEY ICO	AL
DE CENTRE DE LA CONALENCIA DEL CONALENCIA DE LA CONALENCIA DE LA CONALENCIA DE LA CONALENCI	
RONALD R. BOHANNAN P.E. #7868	

SINEER'S L	ENCOMPASS HEALTH PARKING LOT EXPANSION	<i>DRAWN BY</i> AS
R. BOHA	ALBUQUERQUE, NM	DATE
MEXICOZZ		8-10-2021
'868)	GRADING PLAN	7000 JEFFERSON ST. ALBUQUERQUE, NM
NALENGIN		SHEET #
NALERO 08-10-2021	TIERRA WEST, LLC 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109	1
R. BOHANNAN 868	(505) 858-3100 www.tierrawestllc.com	<i>JOB #</i> 2021042



PROPOSED DRAINAGE:

THE TEMPORARY PARKING AREA WILL BE PAVED, NEW CURB & GUTTER AND A VALLEY GUTTER WILL BE INSTALLED TO CONTAIN RUN-OFF GENERATED ACROSS THE PARKING AREA AND DIRECT FLOWS AWAY FROM AN EXISTING RETAINING WALL AND INTO A NEW DETENTION POND THAT WILL ACCOMMODATE A STORM WATER QUALITY VOLUME OF APPROXIMATELY 325 cft. A NEW COBBLE LINED SWALE WILL BE INSTALLED TO CONVEY RUN-OFF FROM THE NEWLY PAVED PARKING AREA INTO THE NEW STORM WATER QUALITY DETENTION POND.

DRAINAGE ACROSS THE REMAINING VACANT AREA WILL MAINTAIN PRE-DEVELOPMENT

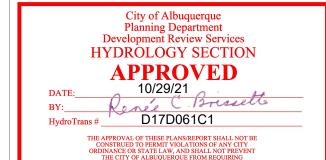
FLOW PATHS, OUTFALL LOCATIONS AND DISCHARGE CAPACITIES.

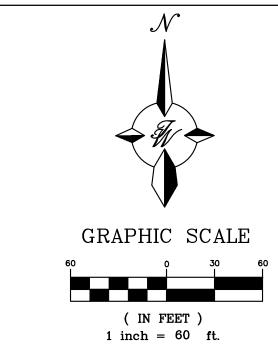
EXISTING DRAINAGE:

A MAJORITY OF THIS SITE IS CURRENTLY VACANT (APPROXIMATELY 2.3765 acres) WITH A PORTION (APPROXIMATELY 0.2866 acres) BEING USED AS A TEMPORARY PARKING AREA. THE SITE IS LOCATED TO THE SOUTH OF ELLISON, WEST OF I-25 AND EAST OF JEFFERSON STREET. THE SITE DRAINS FROM NORTHEAST TO SOUTHWEST. EXCESS RUN-OFF IS DIRECTED INTO AN EXISTING DETENTION PONDING AREA THAT INCLUDES AN EXISTING DROP INLET WHICH SERVES AS AN OUTLET THAT DELIVERS FLOWS INTO THE ADJACENT CONCRETE LINED CHANNEL KNOWN AS THE "SOUTH PINO ARROYO". REFERRING TO DETAIL "A" ON THIS SHEET THE DROP INLET HAS A CAPACITY OF APPROXIMATELY 16.7 cfs. EXCESS FLOWS ENTERING THE DETENTION POND WILL ENTER THE ADJACENT LINED CHANNEL VIA AN EXISTING CONCRETE LINED WEIR WHICH PRIDES A CAPACITY OF ALMOST 32 cfs (SEE DETAIL "B" THIS SHEET).

CAUTION

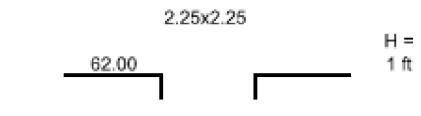
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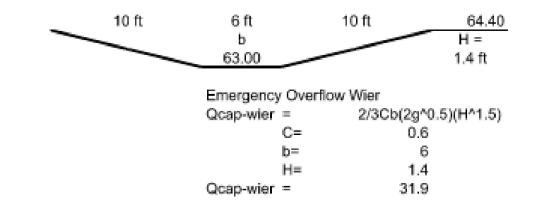
l	<u>LEGEND</u>
=	

	CURB & GUTTER
	BOUNDARY LINE
	EASEMENT
	CENTERLINE
	RIGHT-OF-WAY
	BUILDING
	SIDEWALK
	SCREEN WALL
	RETAINING WALL
——————————————————————————————————————	CONTOUR MAJOR
——————————————————————————————————————	CONTOUR MINOR
x 5048.25	SPOT ELEVATION
	FLOW ARROW
	EXISTING CURB & GUTTE
	EXISTING BOUNDARY LINE
5010	EXISTING CONTOUR MAJO
— — — — 5011— — — — —	EXISTING CONTOUR MINO
x 5048.25	EXISTING SPOT ELEVATION



Drop Inlet (2.25' square w/20-1" bars) Qcap-orif = C(Ao)((2gh)^0.5) 3.4616.7 Qcap-orif =

DETAIL "A"



DETAIL "B"

ENGINEER'S SEAL	ENCOMPASS HEALTH PARKING LOT EXPANSION	<i>DRAWN BY</i> AS
DR. BOHANA ON MEXICO Z	ALBUQUERQUE, NM	DATE
METICO Z		8-10-2021
[((7868)])	DRAINAGE PLAN	7000 JEFFERSON ST ALBUQUERQUE, NM
PROPERTY OF THE PROPERTY OF TH		SHEET #
08-10-2021	5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109	2
RONALD R. BOHANNAN P.E. #7868	(505) 858-3100 www.tierrawestllc.com	<i>JOB #</i> 2021042

Drainage Calculations based on current COA DPM Article 6-2 Hydrology, Part 6-2(A) Procedure for 40-acre and Smaller Basins Retention Volume Calculations based upon current COA DPM Article 6-12 Stormwater Quality & Low Impact Development

ID	escription	Condition	Area	Area		Basin Descriptions									100-Year		
		i .		Aiea	Area	Treati	ment A	Treati	ment B	Treatr	nent C	Treatn	nent D	Weighted E	Flow	Volume	e (ac-ft)
V1 Cro			(sf)	(acres)	(sq miles)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(in)	cfs	6 HR	24 HR
AI Gia	ravel Lot	Historic	12,484	0.2866	0.00045	0%	0.000	0.00%	0.00000	100%	0.2866	0%	0.000	1.030	0.87	0.025	0.025
X2 Newly	wly Graded	Historic	103,521	2.3765	0.00371	0%	0.000	0.00%	0.000	100%	2.3765	0%	0.000	1.030	7.25	0.204	0.204
Total			116,005	2.6631	0.00416		0.000		0.000		2.6631		0.000		8.12	0.229	0.229
osed Conditions - Maverik Site Basin Descriptions 100-Year																	
Danim Dani		Condition	A == = =	A ===		•	A	Tuest	nent B	Tuesta	t C	T		Weighted E	Flow		- (a a £4)
Basin Desc	scription	Condition	Area (sf)	Area (acres)	Area (sq miles)	ı reati	ment A (acres)	reati	(acres)	reatr	nent C (acres)	reatn	nent D (acres)	(in)	cfs	6 HR	e (ac-ft) 24 HR

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume₃₆₀ = Weighted E * Total Area Volume₁₄₄₀ = $V_{360} + A_D * (P_{1440} - P_{360}) / 12 in/ft$

Flow = Qa*Aa + Qb*Ab + Qc*Ac + Qd*Ad 270.5 cft = 0.00621 ac-ft = Retention Volume Required Storm Water Quality Volume (SWQV) = Ad * (0.26in) / (12in/ft) =

	RETENTION POND CALCULATIONS					
	AREA AT	POND			VOLUME	
POND	MIDPOINT	DEPTH	POND VOLUME	POND VOLUME	REQUIRED	
No.	(SF)	(FT)	(CF)	(AC-FT)	(AC-FT)	
1	325	1.0	325	0.0075		
		Total	325	0.0075	0.006	

Excess Pre	cipitation, า.)
Zone 2	100-Yea
Ea	0.62
Eb	0.80
Ec	1.03
Ed	2.33

	rge (cfs/acre)
Zone 2	100-Year
Qa	1.71
Qb	2.36
Qc	3.05
Qd	4.34