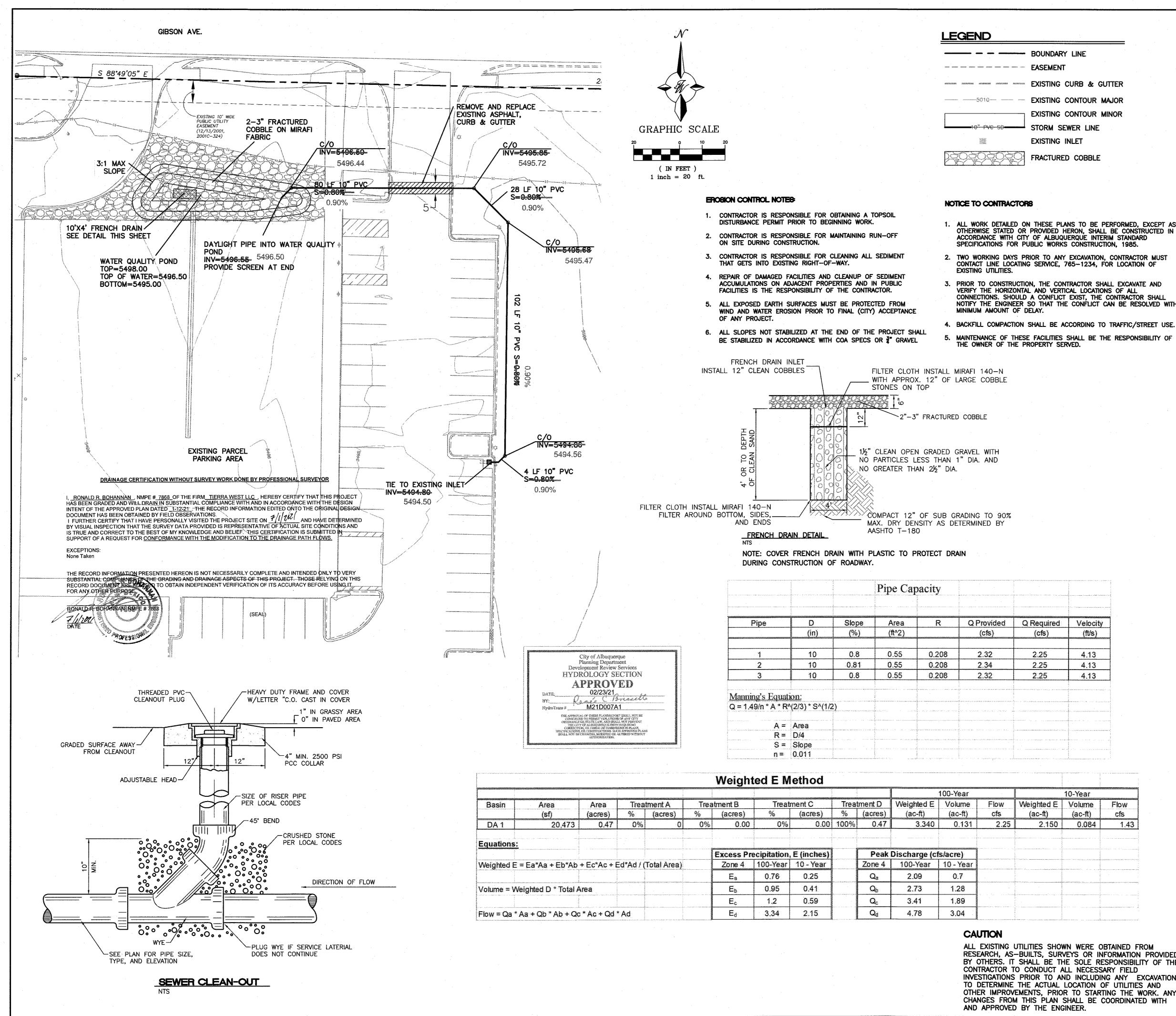


## City of Albuquerque

Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Raytheon	Building Permit #:	Hydrology File #:			
DRB#:	EPC#:	Work Order#:			
Legal Description: <u>Tract TR E-1 Parcel Bulk</u>	Land Plat Unit				
City Address: 10800 Gibson SE, Alb, NM					
Applicant: Tierra West, LLC		Contact: Jon Niski			
Address: 5571 Midway Park PI NE					
Phone#: 505-858-3100	Fax#: <u>505-858-1118</u>	E-mail: jniski@tierrawestllc.com			
Other Contact:		Contact:			
Address:					
Phone#:	Fax#:	E-mail:			
TYPE OF DEVELOPMENT: PLAT (#	f of lots) RESIDEN	CE DRB SITE 🖌 ADMIN SITE			
IS THIS A RESUBMITTAL? Yes	No				
DEPARTMENT TRANSPORTATION		RAINAGE			
Check all that Apply:	TYPE OF APPROVAL/ACCEPTANCE SOUGH?				
TYPE OF SUBMITTAL:		LDING PERMIT APPROVAL			
$\checkmark$ ENGINEER/ARCHITECT CERTIFICATION	<u> </u>	RTIFICATE OF OCCUPANCY PERMANENT			
PAD CERTIFICATION	DDE	ELIMINARY PLAT APPROVAL			
CONCEPTUAL G & D PLAN		E PLAN FOR SUB'D APPROVAL			
✓ GRADING PLAN		E PLAN FOR SUB D'AFFROVAL E PLAN FOR BLDG. PERMIT APPROVAL			
DRAINAGE REPORT		AL PLAT APPROVAL			
DRAINAGE MASTER PLAN	1'11N	AL ILAI AIIROVAL			
FLOODPLAIN DEVELOPMENT PERMIT A	PPLIC SIA	/ RELEASE OF FINANCIAL GUARANTEE			
ELEVATION CERTIFICATE		JNDATION PERMIT APPROVAL			
CLOMR/LOMR		ADING PERMIT APPROVAL			
TRAFFIC CIRCULATION LAYOUT (TCL)		19 APPROVAL			
TRAFFIC IMPACT STUDY (TIS)		/ING PERMIT APPROVAL			
STREET LIGHT LAYOUT		ADING/ PAD CERTIFICATION			
OTHER (SPECIFY)		RK ORDER APPROVAL			
PRE-DESIGN MEETING?		OMR/LOMR			
		OODPLAIN DEVELOPMENT PERMIT			
		HER (SPECIFY)			
DATE SUBMITTED: 07/02/2021					
COA STAFF:	ELECTRONIC SUBMITTAL RE	CEIVED:			
	FEE PAID:				



······································						Weight	ted E M	ethod								
									Y T			100-Year			10-Year	
Basin	Area	Area	Trea	atment A	Trea	atment B	Treat	ment C	Treat	ment D	Weighted E	Volume	Flow	Weighted E	Volume	Flow
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	(ac-ft)	(ac-ft)	cfs
DA 1	20,473	0.47	0%	0	0%	0.00	0%	0.00	100%	0.47	3.340	0.131	2.25	2.150	0.084	1.43
Equations		· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·		Ayərlərə			A			
nininan niyon ya ku ku A Qurugʻa kiki sinis Ayaka A Cara I	-		1			Excess Pr	ecipitation,	E (inches)		Peak Discharge (cfs/acre)						
Neighted E	= Ea*Aa + Eb*Ab	+ Ec*Ac +	Ed*Ad /	(Total Area)		Zone 4	100-Year	10 - Year		Zone 4	100-Year	10 - Year				
						Ea	0.76	0.25		Qa	2.09	0.7				
/olume = Weighted D * Total Area		Eb	0.95	0.41		Qb	2.73	1.28	-			w.Javanned maller von G = 7				
	-					Ec	1.2	0.59		Qc	3.41	1.89				
How = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad			Ed	3.34	2.15		Qd	4.78	3,04							

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.

EXISTING CONTOUR MAJOR

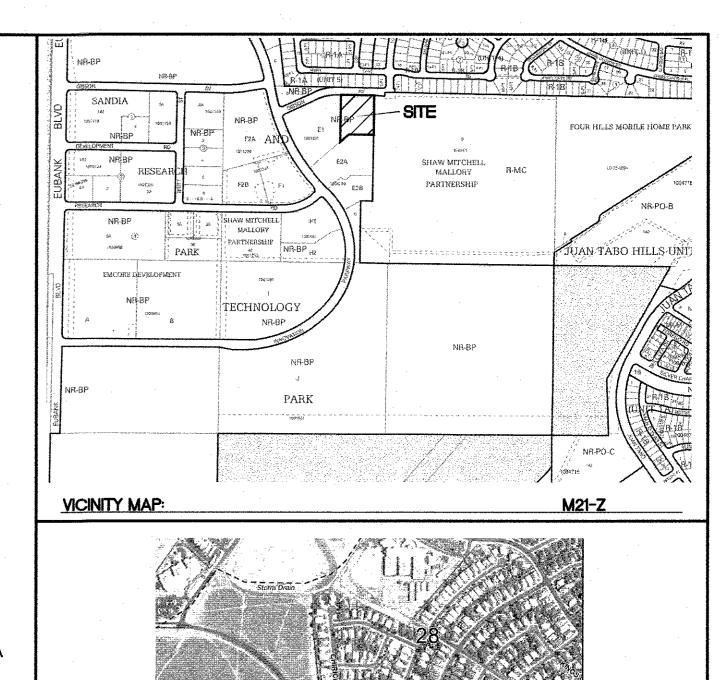
EXISTING CONTOUR MINOR

STORM SEWER LINE

FRACTURED COBBLE

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HERON, SHALL BE CONSTRUCTED IN

CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A



## **DRAINAGE NARRATIVE**

FIRM MAP

THIS SITE IS LOCATED AT 10800 GIBSON AVENUE SE IN ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO AND IS A PORTION OF TRACT E1 OF THE SANDIA SCIENCE & TECHNOLOGY PARK. THE PROPOSED DRAINAGE AND EXISTING SITE HYDROLOGY WILL COMPLY WITH HYDROLOGY REQUIREMENTS AS SHOWN IN DRAINAGE REPORT (M21-d7a1, PREPARED BY ABQ ENGINEERING, 7/25/05) AND DRAINAGE MASTER PLAN (M21D007A PREPARED BY BHI, 9/21/01). THE EXISTING SITE USES SURFACE DRAINAGE DIRECTED TO ON-SITE DROP INLETS AND STORM SEWER TO DIRECT RUNOFF TO EXISTING ON-SITE PONDS #1 AND #2 LOCATED ON THE WEST SIDE OF THE SITE AND CONNECTED TO EXISTING STORM SEWER IN THE CITY STREET. THE DRAINAGE REPORT FROM ABQ ENGINEERING SHOWS THE SITE FULLY DEVELOPED AND GRADED. THOSE PLANS SHOW BOTH PHASES OF THE BUILDING BEING DEVELOPED ALONG WITH A PARKING AREA ON THE EAST SIDE OF THE PROPERTY. THE DRAINAGE REPORT PREPARED BY ABQ ENGINEERING SHOWS 80% AS TYPE "D" IMPERVIOUS AND 20% TYPE "B" LANDSCAPE. THE DRAINAGE REPORT ALSO INDICATED COMPLIANCE WITH THE BHI MASTER PLAN INCLUDING LIMITS TO THE DEVELOPED RUNOFF RELEASED TO THE PUBLIC STORM SEWER.

35001C0367H

IN THE 2017 GRADING PLAN COMPLETED BY ABQ ENGINEERING A PAVED PARKING AREA WAS ADDED TO THE EAST SIDE OF THE BUILDING. THIS AREA WAS ORIGINALLY INTENDED FOR A BUILDING EXPANSION THUS THE OVER ALL GRADING AND DRAINAGE FOR THE SITE WAS STILL IN COMPLIANCE WITH THE APPROVED GRADING PLAN. WITH THE CONSTRUCTION OF THE PAVED AREA ABQ ENGINEERING WAS REQUIRED TO COMPLY WITH THE NEW WATER QUALITY RULES FOR THE CITY AND PROVIDED A DETENTION POND FOR THE NEW PARKING AREA WHICH CONTAINED THE VOLUME FOR THE WATER QUALITY REQUIREMENT AS WELL AS THE 100YR STORM AND DID NOT HAVE A OVERFLOW.

THE PROPERTY OWNER WOULD LIKE A WAY FOR THE POND TO DRAIN THE 100YR FLOWS AND DETAIN THE WATER QUALITY VOLUME OF 733 CF. IN ORDER TO ACCOMPLISH THIS REQUEST A NEW 10" PVC STORM SEWER IS PROPOSED TO BE CONSTRUCTED FROM THE WATER QUALITY POND TO THE EXISTING DROP INLET LOCATED IN THE PARKING LOT. THIS AREA WAS ORIGINALLY DESIGNED TO DRAIN TO THAT DROP INLET SO THE EXISTING STORM SEWER HAS CAPACITY AND THE SITE HYDROLOGY REMAINS AS IT WAS APPROVED. THE REVISED WATER QUALITY POND HAS THE CAPACITY TO HOLD 750 CF OF RUNOFF WHICH IS GREATER THAN THE 733 CF REQUIRED.

· ·		
ENGINEER'S SEAL	RATHEON ALBUQUERQUE, NM	DRAWN BY
ONALD R. BOHYAND	SUPPLEMENTAL GRADING	<i>DATE</i> 1-12-2021
7868 PHO FX	AND DRAINAGE PLAN	· · · · · · · · · · · · · · · · · · ·
		SHEET #
35/ONALEINS 1-12-2021	5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109	1
RONALD R. BOHANNAN P.E. #7868	(505) 858-3100 www.tierrawestllc.com	<i>JOB #</i> 2020062

:		
	Velocity	
	(ft/s)	
	4.13	
	4.13	
	4.13	
11.0	-	