

Pursuant to the latest Bernalillo County Ordinance, the Drainage Plan shown hereon outlines the drainage management criteria for controlling developed runoff on and exiting the project site.

vegetated and is level. As shown on FEMA Panel #116 the site is not located in a 100 year flood plain. This plan follows the approved Drainage Report for Black Farms prepared by Tierra West, LLC, dated June 2004. The approved drainage study calls for all storm drainage from each lot to be retained on—site. The pond volume required is the 100—year, 10—day storm.

As shown by the plan, the building is located within the center of the lot. There are no off—site flows entering the site with the exception of the roadway that fronts the property and will

The calculations shown hereon define the 100 year—6 hour design storm falling within the project area under existing and developed conditions. The Hydrology is per "Section 22.2, Hydrology"

of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, New Mexico in cooperation with Bernalillo County, New Mexico and the Albuquerque Metropolitan

continue to drain into the site per the approved report.. On site flows will drain around the structure via sheet flow and swales, and flow to one of the 3 proposed retention ponds. All roof drainage will discharge from the roof to the lot and be directed around the structure to drainage paths. Access will be taken from Black Farm Lane NW. This road is currently improved.

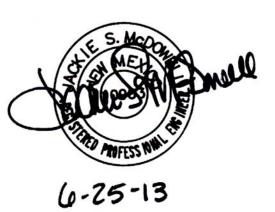
Presently, the 1.07 acre site is undeveloped. The site is bounded on the northeast and southeast by private property and on the northwest by Black Farm Lane NW. The site is not

One single family home is proposed for the subject property, with associated access, landscaping, and utility improvements.

PLAZA AT PASEO DEL NORTE POLYTECHNICAL INSTITUTE VICINITY MAP FEMA FLOODWAY MAP PANEL #116 ZONE ATLAS C-13

> LEGEND PROPOSED **EXISTING** \_\_\_\_\_6045\_ -----SPOT ELEVATION

> > UNIT 2 BLACK FARM ESTATES ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO 9204 Black Farm Lane NW



ENGINEER'S CERTIFICATION:

I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on June 17, 2013 and as of that date it appeared that no filling, grading, or excavation had occurred thereon since completion of the topographic survey used to prepare this plan.

BERNALILLO COUNTY NEW MEXICO LOT 32, UNIT 2, BLACK FARM ESTATES DEBASSIGE CUSTOM HOME - GRADING & DRAINAGE PLAN

TELE: 505-828-2430 • FAX: 505-821-4857 Jesigned JSM Drawn STAFF Date JUNE,2013 DEB0113L

Development Process Manual, Volume 2, Design Criteria for the City of Albuquerque, New Mexico, latest edition - basins < 40 acres".

reas: (acres)				
		Existing	Proposed	
reatment A		1.07	0.00	
reatment B		0.00	0.75	
reatment C		0.00	0.00	
eatment D		0.00	0.32	
	Total (acres) =	1.07	1.07	

Volume		100 year	100 year	10 year	10 year	2 year	2 year
₹		Existing	Proposed	Existing	Proposed	Existing	Proposed
	Volume (acre-feet) =	0.039	0.094	0.007	0.047	0.000	0.020
	Volume (cubic feet) =	1,709	4,112	311	2,039	0	864

DEBASSIGE LOT #32

P(360) = 2.20 inches P(10 day) = 3.67 inches

Total Q(p), cfs:							
100 II 4 W		100 year	100 year	10 year	10 year	2 year	2 year
		Existing	Proposed	Existing	Proposed	Existing	Proposed
		Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A
Treatment A		1.38	0.00	0.26	0.00	0.00	0.00
Treatment B		0.00	1.52	0.00	0.57	0.00	0.02
Treatment C		0.00	0.00	0.00	0.00	0.00	0.00
Treatment D		0.00	1.40	0.00	0.92	0.00	0.54
	Total Q (cfs) =	1.38	2 92	0.26	1 49	0.00	0.56

V (10 day) = V (360) + A (D) \* (P10day-P360)/12 in/ft = 0.1336 ac-ft

5820 cu-ft = Regte Pond Volume

POND VOL. PROMOTO:

MORTH POND Flex. Area Vol

SOUTH POND Elev. Area Val. 4987 2749 2365

Elev. Area Val 4987 1517 1149 4986 781 541 4985 301 × 188 4984 75 × 1878

= 7390 CF.

4987 1922) 1505<sub>CF</sub> TOG = 4007 Tor - 1505

Topographic information provided by Mike Shook dated June 24, 2013.

Supplemental calculations are shown as part of this Grading and Drainage plan.

DRAINAGE PLAN

**EXISTING CONDITIONS:** 

PROPOSED CONDITIONS:

Arroyo Flood Control Authority.

9204 Black Farm Lane NW

CALCULATIONS:

TOPOGRAPHY:

PROPERTY ADDRESS:

SCOPE:

GRADING 6-21-13 DEB0113L