

IMPERVIOUS AREA CALCULATIONS

**EXISTING SITE CONDITIONS** PERVIOUS AREA: 1,921 SF

% IMPERVIOUS = 9.68%

PROPOSED SITE CONDITIONS

PERVIOUS AREA: 3,117 SF

% IMPERVIOUS = 15.71%

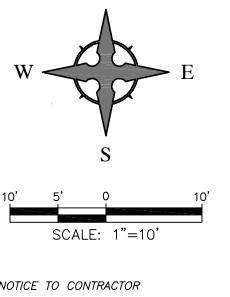
IMPERVIOUS AREA: 16,720 SF

TOTAL SITE AREA: 19,837 SF

IMPERVIOUS AREA: 17,916 SF

TOTAL SITE AREA: 19,837 SF

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		EX	isting TL	Anim	ai Hosp	itai Dra	ainage (	Jaicula	นอกร			
						-						
	This	table is based or	the COA DPI	M Section 2	22.2, Zone:	3						
BASIN	Area	Area	Land Treatment Percentages			Q(100)	Q(100)	WTE	V(100) <sub>360</sub>	V(100) <sub>1440</sub>	V(100) <sub>10d</sub>	
	(SQ. FT)	(AC.)	А	В	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(CF)
Existing Site	19837	0.46	0.0%	0.0%	9.7%	90.3%	4.87	2.22	2.26	3730	4327	6118
TOTAL	19837	0.46						2.22		3730	4327	6118
		Propos	ed TLC A	nimal l	Hospita	l Drain	age Cal	culatio	ns			
			Ultimate	Ultimate Development Conditions Basin D								
	This	table is based or	the COA DPI	M Section 2	22.2, Zone:	3						
BASIN	Area	Area	Land Treatment Percentages				Q(100)	Q(100)	WTE	V(100) <sub>360</sub>	V(100) <sub>1440</sub>	V(100) <sub>10d</sub>
	(SQ. FT)	(AC.)	Α	В	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(CF)
Proposed Site	19837	0.46	0.0%	0.0%	15.7%	84.3%	4.77	2.17	2.19	3624	4181	5853
TOTAL	19837	0.46						2.17		3624	4181	5853



#### CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

# *LEGEND* — FLOW ARROW PROPOSED TOP OF GRADE/PVMT ELEVATIONS FL27.8 PROPOSED FLOW LINE/GUTTER ELEVATIONS PROPOSED TOP OF CURB ELEVATIONS ----515---- EXISTING CONTOUR PROPOSED CONTOUR EXISTING STORM DRAIN \_\_\_\_ RIDGE LINE

#### DRAINAGE MANAGEMENT PLAN

The purpose of this submittal is to provide a final drainage management plan for the proposed building expansion of TLC Anaimal Hospital located at 1300 Wyoming Blvd NE in Albuquerque, NM. The project consists of demolition of the existing parking lot, construction of two building additions, and a new parking lot with associated landscaped areas. The existing curb cuts along Wyoming and Summer will remain. The site contains approximately 0.4554 acres.

## EXISTING HYDROLOGIC CONDITIONS

The site is currently developed and 90.3% Impervious per the Impervious Area calculations this sheet. Surrounding streets and infrastructure are in place. The site slopes from east to west in a sheet flow condition and drains to both Summer Av. and Wyoming Blvd. Per the basin calculations table this sheet, the site currently discharges 2.22 cfs (3,730 CF) during the 100-Yr, 6-Hr Storm. Analysis for these and all drainage calculations were performed using the COA DPM Section 22.2, released June 1997.

### PROPOSED HYDROLOGIC CONDITIONS

The site will continue to drain to Summer Ave and Wyoming Blvd in a sheet flow condition. There is in increase in landscaped area on the site which decreases the total impervious area to 84.3%. Per the basin calculations table this sheet, the proposed site will discharge 2.17 cfs (3,624 CF) during the 100-Yr, 6-Hr Storm, which is a reduction of 0.05 cfs (106 CF).

### FIRST FLUSH CALCULATIONS

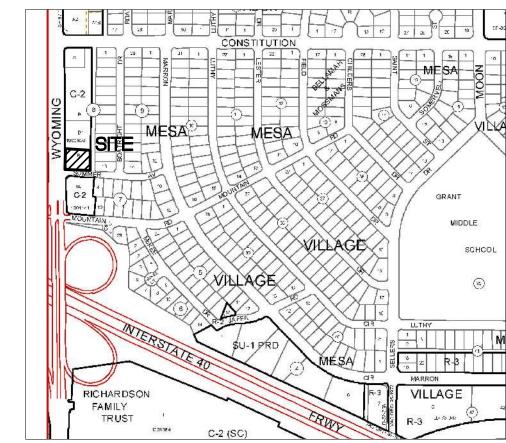
The first flush volume impervious area is 16,720 SF(Impervious Area)\*0.44"/12 = 613 cubic feet. The pond provided contains +/-732.5 cubic feet which is sufficient to contain the first flush. The pond will discharge onto the sidewalk at the north end of the existing curb cut.

### CONCLUSION

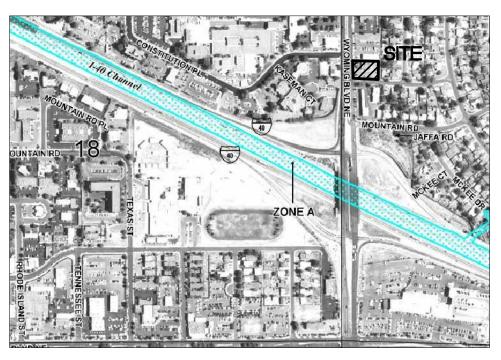
This drainage management plan provides for grading and drainage elements which are capable of safely passing the 100 year storm and meets city requirements. With this submittal, we are requesting approval of this plan for Grading Permit and Building Permit.

POND VOLUME CALCULATIONS										
CONTOUR ELEVATION	AREA (SF) VOL	<u>UME (CF)</u>								
5359.00	248 SF 306	: 5								
5360.00	365 SF <									
5361.00	487 SF	6.0 CF								
TOTAL	732	2.5 CF								

NOTE: THE ABOVE POND VOLUMES SHALL BE VERIFIED AS PART OF THE DRAINAGE CERTIFICATION AND WILL BE REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.



VICINITY MAP - Zone Atlas J-20-Z



FIRM MAP 35001C0358H

Per FIRM Map 35001C0358H, dated Aug 16, 2012, the site is not located in

# NOTICE TO CONTRACTORS

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

ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 UPDATE NO. 8.

3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NM ONE CALL FOR LOCATION OF EXISTING UTILITIES. (NM ONE CALL = '811') PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE

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.

CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

### GRADING NOTES

1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN. 2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.

3. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).

4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.

5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED

6. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT—OF—WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS OR SILT FENCE AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.

7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

8. PAVING AND ROADWAY GRADES SHALL BE +/- 0.05' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.

9. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR PAVEMENT, MEDIANS, AND ISLANDS.

10. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION (IF APPLICABLE) PRIOR TO BEGINNING CONSTRUCTION.

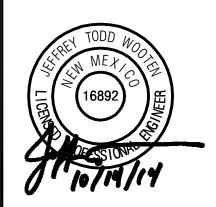
11. THE CONTRACTOR SHALL PROVIDE THE SWPPP DOCUMENT (IF NECESSARY) AND SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.

> **X**/ooten 4700 Lincoln NE. Suite 111 Albuquerque, NM 87109 Ph: 505.980.3560

Mullen Heller Architecture P.C.

924 Park Avenue SW

Albuquerque 87102 505 268 4144[p] 505 268 4244 [f]



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