CITY OF ALBUQUERQUE

PLANNING DEPARTMENT - Development Review Services



January 13, 2017

Richard J. Berry, Mayor

Martin J. Garcia 1035 S. Bosque Loop Bosque Farms, NM, 87068

RE:

Star Limo

800 Avenida Caesar Chavez, Albuquerque, NM

Grading and Drainage Plan

Stamp Date 1/13/2017 (File: L15D059)

Dear Mr. Garcia:

Based upon the information provided in your submittal received 1/13/2017, the above referenced Grading and Drainage plan is approved for Building Permit.

Please attach a copy of this approved plan in the construction sets when submitting for a building permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

PO Box 1293

If you have any questions you can contact me at 924-3999.

Albuquerque

Sincerely,

New Mexico 87103

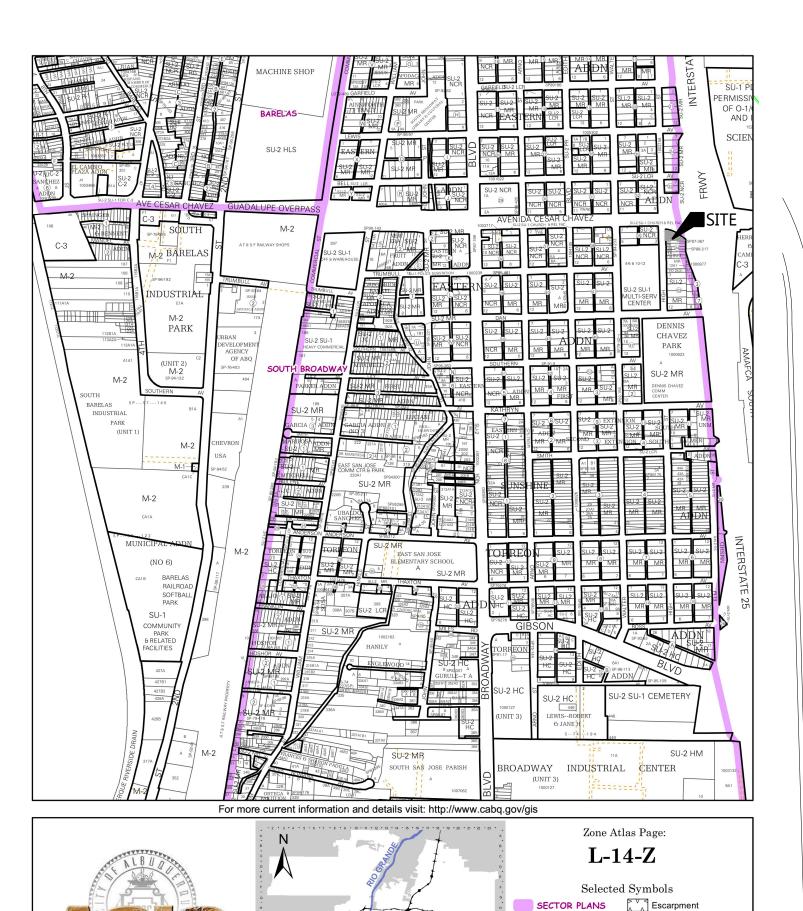
Shahab Biazar, P.E.

City Engineer, Planning Dept.

Cut a chine for

www.cabq.gov Development Review Services

MA/SB





Map amended through: 1/28/2016

STAR LIMO				
Hydrology Calculations				
DPM - Section 22.2				
Volume 2, January 1993				
Precipitation Zone	2			
100 Year Storm Depth, P (360)	2.35			
Treatment Area	Α	В	С	D
Excess Precipitation Factors	0.53	0.78	1.13	2.12
Peak Discharge Factors	1.56	2.28	3.14	4.70
Land Treatment Area	Acres	Existing		Propose
Type "D" (Roof)		0.00		0.10
Type "C" (Unpaved Roadway)		0.31		0.02
Type "B" (Irrigated Lawns)		0.00		0.19
Type "A" (Undeveloped)		0.00		0.00
Total (Acres)		0.31		0.31
Excess Precipitation(in)		1.13		1.23
Volume (100), cf		1271.59		1389.5
Volume (10),cf		851.96		931.01
Q (100), cfs		0.97		0.97
Q (10), cfs		0.65		0.65

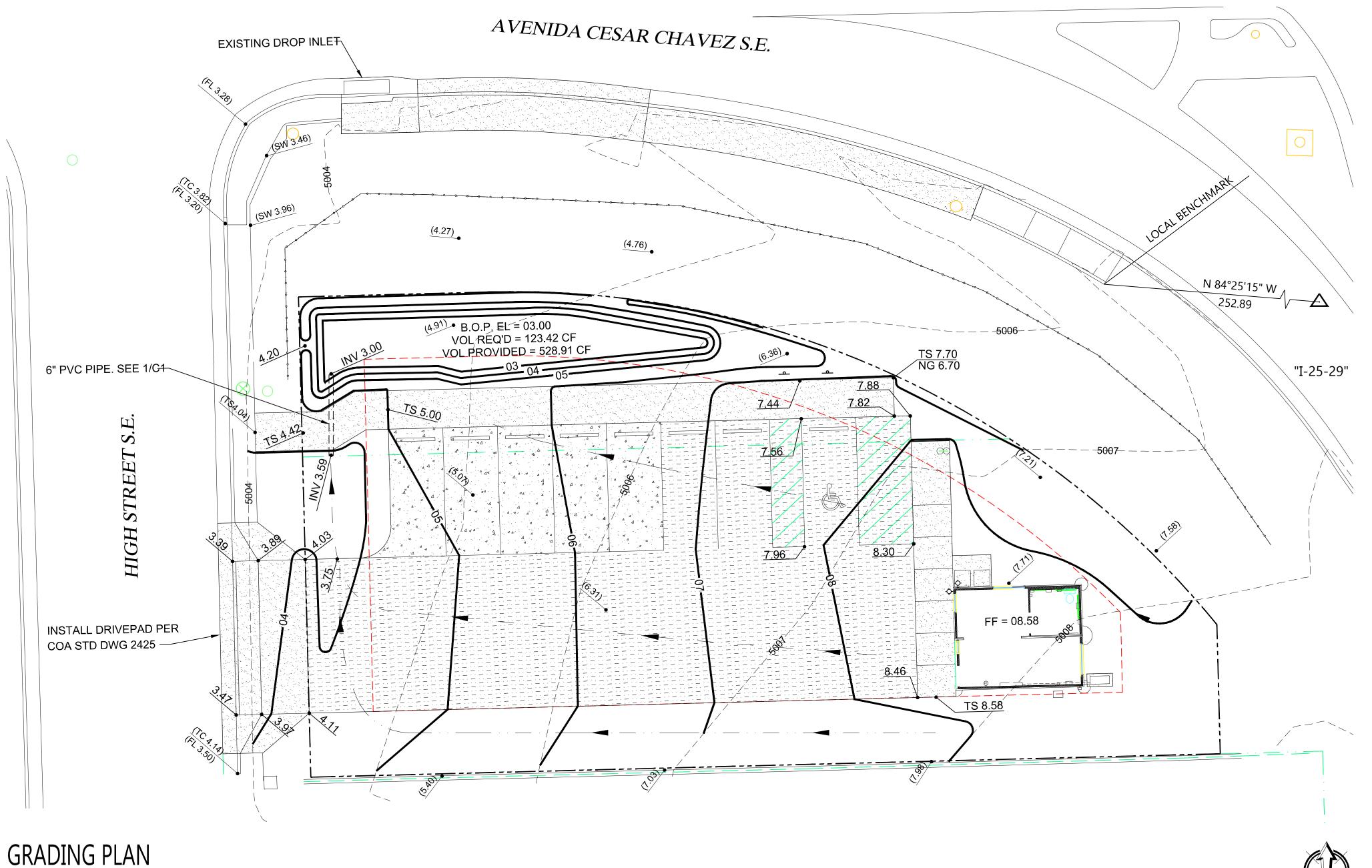
Note: Grey Shading
Represents Area Outside
of the City Limits

<u>Drainage Narrative</u>

THIS GRADING AND DRAINAGE PLAN PROVIDES FOR DEVELOPMENT OF A VACANT LOT AT 800 AVENIDA CESAR CHAVEZ AND HIGH STREET. THE SITE IS CURRENTLY VACANT WITH A GRAVEL SURFACE AND DRAINS SOUTHEAST TO NORTHWEST. THE SITE IS BOUNDED BY NMDOT RIGHT OF WAY ON THE NORTH AND EAST, BY HIGH STREET ON THE WEST AND PRIVATE PROPERTY ON THE SOUTH. THE PROPOSED IMPROVEMENTS INCLUDE A PARKING LOT AND OFFICE BUILDING.

THE SITE DOES NOT ACCEPT OFF-SITE RUNOFF AND IS NOT WITHIN A 100-YEAR FLOOD

ZONE PER FEMA MAP 35001C0334G. THE EXISTING RUNOFF FROM THE SITE IS 0.97 CFS AND NOT INCREASE AFTER DEVELOPMENT OF THE SITE. THE RUNOFF WILL BE DIRECTED TO A CLEAR WATER POND ON THE NORTHWEST PORTION OF THE PROPERTY AND WILL DRAIN TO HIGH STREET THROUGH AN OVERFLOW AT THE WEST END OF THE POND. A WATER BLOCK HAS BEEN PLACED AT THE DRIVEPAD TO DIRECT THE RUNOFF TO THE POND.



Pond Volume

SCALE: 1" = 10'

Design Overlay Zones 2 Mile Airport Zone

H-1 Buffer Zone
Petroglyph Mon.

Airport Noise Contours

Wall Overlay Zone

IMPRVIOUS AREA — 0.10 x 43560 = 4356 SF PONDING REQUIRED — 4356 x $\frac{.34}{12}$ = 123.42 CF

<u>POND 1:</u>

 $\overline{A4} = 530.48 \text{ SF}$ A3 = 395.00 SF

VOL 3 & 4: $530.48 + 395.00 = \frac{925.48}{2} \times 1 = 462.74 \text{ CF}$

POND VOLUME PROVIDED: 462.74 CF

DEPTH OF WATER $\frac{123.42}{462.74} = .27$

WATER SURFACE ELEV = 5003.00 + .27 = 5003.27

Pipe Capacity

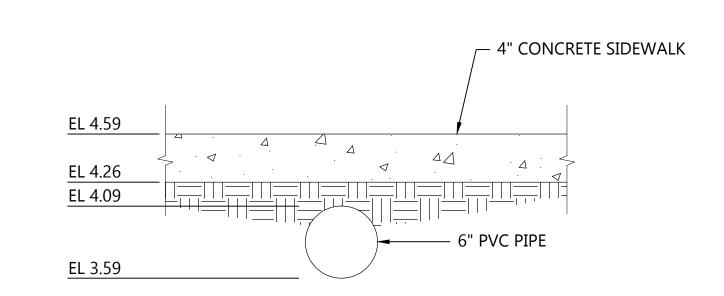
S = .0393 S₀½ = .1983 N = .015 A6 = $\frac{\pi d^2}{4}$ = $\frac{\pi (.5)^2}{4}$ = .1963

 $PER = \pi d = \pi (.5) = 1.57$

 $Rn = \frac{A}{P} = \frac{.1963}{1.57} = .125 \quad Rn^{2}/_{3} = .2499$

 $Q_{cap} = \frac{1.49}{.015}$ (.1963) (.2499) (.1983)

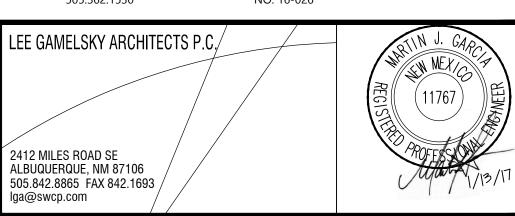
 $Q_{cap} = 0.97 \text{ cfs}$ $Q_{100} \text{ FLOW} = 0.97 \text{ cfs}$



PIPE CROSSING AT SIDEWALK

SCALE: NTS





STAR LIMO

C1

Project Benchmark 🛕

APPROX 1,020.85 FEET FROM

X = 1523926.061 Y = 1480816.003

Z = 5035.39 (NAVD88) G-G FACTOR: 0.999678639

LOCAL BENCHMARK

NAD83

ON RAMP

X = 1523674.463

Y = 1480840.623

— — 5005 — —

(7.58)

FP EL

FF EL

Z = 5007.18

Legend

THE PROJECT BENCHMARK IS A FOUND NMDOT

3 1/4" ALUMINUM DISC ALONG INTERSTATE 25

THE LOCAL BENCHMARK IS A SET SPIKE ALONG THE EDGE

EXISTING CONTOUR

EXISTING WALL

NEW CONTOUR

FINISH PAD ELEVATION

DIRECTION OF FLOW

GRAVEL BASECOURSE

CONCRETE SIDEWALK

ASPHALT PAVING

FINISH FLOOR ELEVATION

BENCHMARK

EXISTING SPOT ELEVATION

OF THE EXISTING HANDICAP RAMP ALONG THE I-25

THE SOUTHEAST CORNER OF THE PROPERTY

Albuquerque, New Mexico		
PROJECT ARCHITECT:	Project #:	16-05-P
LEE GAMELSKY, AIA	Date:	11 November 2016
		_

GRADING AND DRAINAGE PLAN

File:	Ву:	Sheet:	Of:
	File:	C1	