

December 5, 2017

David Soule, P.E. Rio Grande Engineering PO Box 93924 Albuquerque, NM 87199

RE: Sicily Plaza- 6001 Coors Blvd NW Grading Plan and Drainage Report Engineer's Stamp Date: 11/28/17 Drainage File: E12D003F

Dear Mr. Soule:

Based on the information provided in your submittal received 11/29/17 this submittal cannot be approved for Site Plan for Building Permit, Grading or Building Permit until the following are addressed:

PO Box 1293

1. A Private Facility Drainage Covenant is required for the new stormwater quality pond. The original notarized forms, exhibits, and recording fee (\$25, payable to City of Albuquerque) must be turned into DRC (4th, Plaza del Sol) for routing. Please contact Charlotte LaBadie (clabadie@cabq.gov, 924-3996) or Madeline Carruthers (mtafoya@cabq.gov, 924-3997) regarding the routing and recording process for covenants.

Albuquerque

2. Bottom of pond elevation on the new pond needs to be corrected.

NM 87103

3. Is this a restaurant? If so please provide the utility sheet showing the grease trap and drain line to sanitary sewer for the dumpster, or show this on the grading plan.

www.cabq.gov

4. Include the ALTA survey showing the existing drainage covenant on the existing pond.

Prior to C.O, the drainage covenant will need to be recorded and the elevation of the bottom of the existing and new ponds will need to be surveyed. If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

Dana Peterson, P.E.

Senior Engineer, Planning Dept. Development Review Services



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title:	Building Permit #:	City Drainage #:
DRB#: EPC#:	_	Work Order#:
Legal Description:		
City Address:		
Engineering Firm:		Contact:
Address:		
Phone#: Fax#:		E-mail:
Owner:		Contact:
Address:		· · · · · · · · · · · · · · · · · · ·
		E-mail:
Architect:		Contact:
Address		
· · · · · · · · · · · · · · · · · · ·		E-mail:
Other Contact:		Contact:
Address:		
Phone#: Fax#:		E-mail:
HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL	BUILDING P	APPROVAL/ACCEPTANCE SOUGHT: ERMIT APPROVAL E OF OCCUPANCY
MS4/ EROSION & SEDIMENT CONTROL	CERTIFICAT	E OF OCCUPANCY
TYPE OF SUBMITTAL:	PRELIMINAI	RY PLAT APPROVAL
ENGINEER/ ARCHITECT CERTIFICATION	37	FOR SUB'D APPROVAL
CONCEPTUAL G & D PLAN	X SITE PLAN F	FOR BLDG. PERMIT APPROVAL
GRADING PLAN		SE OF FINANCIAL GUARANTEE
DRAINAGE MASTER PLAN		N PERMIT APPROVAL
DRAINAGE REPORT	GRADING P	ERMIT APPROVAL
CLOMR/LOMR	SO-19 APPR	OVAL
TDAEEIC CIDCUI ATION LAVOUT (TCL)	PAVING PER	
TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS)		AD CERTIFICATION
EROSION & SEDIMENT CONTROL PLAN (ESC)	WORK ORDE CLOMR/LON	
	CLOWR/LOW	IK .
OTHER (SPECIFY)	PRE-DESIGN	MEETING
	OTHER (SPE	CCIFY)
IS THIS A RESUBMITTAL?: Yes No		
DATE SUBMITTED:		

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____

REVISED DRAINAGE REPORT

For

SICILY PLAZA 6001 COORS NW

Albuquerque, New Mexico

Prepared by

Rio Grande Engineering PO Box 93924 Albuquerque, New Mexico 87199



November 29, 2017

TABLE OF CONTENTS

Purpose	3
Introduction	3
Existing Conditions	3
Exhibit A-Vicinity Map	4
Proposed Conditions	5
Summary	5
<u>Appendix</u>	
Site Hydrology	A
Hydraulic Calculations	B
Previous Drainage report	C
Map Pocket	
Site Grading and Drainage Plan	

PURPOSE

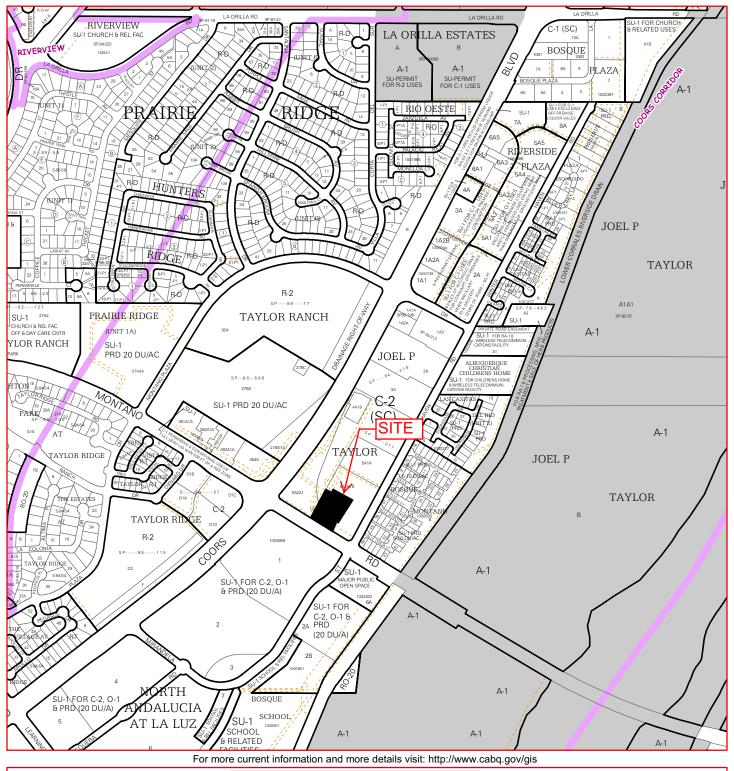
The purpose of this report is to provide the Drainage Management Plan for the construction of a 5000 square foot retail building located at 6001 Jacs Lane NE. This plan was prepared in accordance with the City of Albuquerque design regulations, utilizing the City of Albuquerque's Development Process Manual drainage guidelines. This report will demonstrate that the grading does not adversely affect the surrounding properties, nor the upstream or downstream facilities.

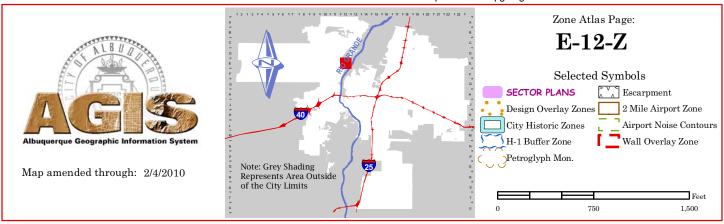
INTRODUCTION

The subject of this report, as shown on the Exhibit A, is a 1.31-acre parcel of land located on the north side of Montano between Winterhaven and Coors. The legal description of this site is Lot 5-A1-B1-A Lands of Joel P Taylor. As shown on FIRM map35013C0118G, the entire site is located within Flood Zone X. The site is a graded pad site within the Montano Plaza development. This site was designed for a similar building and analyzed by Mark Goodwin within report dated 11/19/04 as shown in city drainage file E12D3E. The entire downstream infrastructure has been constructed. The site is part allowed free discharge to the existing rundown, and shall capture the first flush volume on site This development must maintain proposed drainage patterns and have peak discharge no greater than previously proposed.

EXISTING CONDITIONS

The site is currently developed as a graded lot. The site currently discharges directly to a concrete rundown located at the southeast portion of the site. The site contains an underground storm drain along its west boundary and a detention pond along it s south boundary. All of this flow is captured by this pond along with the upland flows and discharged to a publicly maintained storm drain within Montano Boulevard. All of the required storm drain facilities are in place. The pond has an existing drainage covenant for maintenance





PROPOSED CONDITIONS

The proposed improvements consist of a 5,000 square foot retail building. The site is in general conformance to the previously approved plan. The site contains two drainage basins.

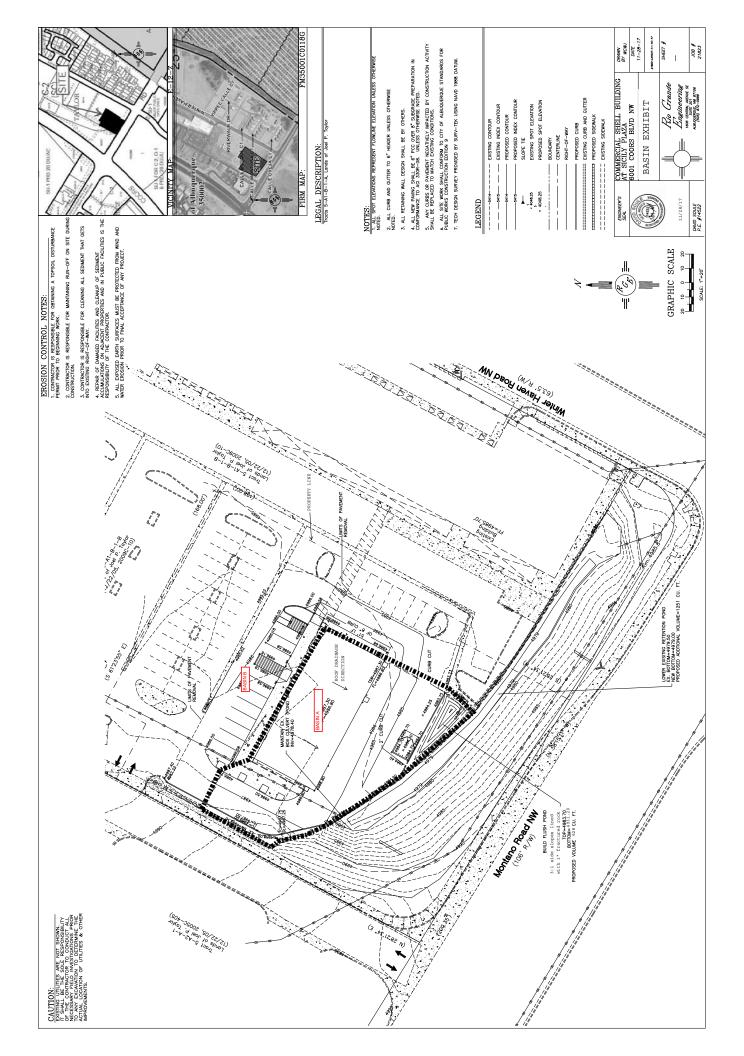
Basin B contains the existing front parking area and the ponding areas; this basin generates 2.46 cfs and has a 717 CF first flush requirement. The flow enters the pond via the existing concrete rundown. The existing pond will be lowered 6" to provide for the first flush volume of 1251 CF.

Basin A contains the rear portion of the parking area and the building. This basin generates 1.33 cfs and has a 325 CF first flush requirement. The flow from this basin passes through a landscape area first flush pond which overflows with a volume of 628 CF to the existing rundown into the existing pond

SUMMARY AND RECOMMENDATIONS

This project is a development of a graded pad site. The site is within the boundaries of the Montano plaza drainage plan area. This site was previously analyzed. The proposed development land treatments and drainage patterns conform to the overall and previously approved plan. The site retains the required first flush volume. The upstream and downstream infrastructure is in place. Since the effected area site encompasses more than 1 acre, a NPDES permit and Erosion and Sediment Control plan should be required prior to any construction activity.

APPENDIX A SITE HYDROLOGY



Weighted E Method

												100-Year, 6-hr	hr.	24-hour
Basin	Area	Area	Treatn	ment A	Treatr	reatment B	Treatn	reatment C	Treatment I	ent D	Weighted E	Volume	Flow	Volume
	(st)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	(ac-ft)
AS APPROVED	57063.60 1.310	1.310	%0	0	22%	0.288	13%	0.1703	%59	0.852	1.557	0.170	4.79	0.226
PROPOSED A	14153.00 0.325	0.325	%0	0	%0	0.000	19%	0.06173	81%	0.263	1.784	0.048	1.33	0.066
PROPOSED B	42910.60 0.985	0.985	%0	0	29%	0.286	12%	0.11821	26%	0.581	1.475	0.121	3.46	0.159
TOTAL PROPOSED	57063.60 1.310	1.310	%0	0	22%	0.2857	14%	0.17994	64%	0.844	0.486	0.053	4.79	0.109

Equations:

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

Volume = Weighted D * Total Area

Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

Qa= 1.29 Qb= 2.03 Qc= 2.87 Qd= 4.37 Ea= 0.44 Eb= 0.67 Ec= 0.99 Ed= 1.97 Where for 100-year, 6-hour storm-zone 1

PROVIDED (CF)

628 1251 ONSITE Conditons FIRST FLUSH WATER QUALITY VOLUME REQUIRED (CF) 325 717 WATER QUALITY basin a basin b

This site is within a developed subdivision. The lots free discharge per the approved drainage plan E12D3E. This site will continue the existing drainage patterns and will reta onsite the first flush volume

APPENDIX B HYDRAULIC CALCULATIONS

2' CURB OPENINGS

Weir Equation:

$$Q = CLH^{3/2}$$

West drainage swale thru walls

Q= 2.92 cfs C= 2.95 H= 0.5 ftL= Length of weir

$$Q = 2.95 * 2 * ((0.5)^{(3/2)})$$

Each opening has capacity of 2.08 cfs Flow entering and exiting pond=1.33 cfs Therefore acceptable

APPENDIX C EXCERPTS OF PREVIOUS DRAINAGE REPORT



May 17, 2006

Mr. Mark Goodwin, PE MARK GOODWIN & ASSOCIATES P.O. Box 90606 Albuquerque, NM 87199

Re: MONTANO RETAIL

6001 Winter Haven Road NW

Approval of Permanent Certificate of Occupancy (C.O.)

Engineer's Stamp dated 09/28/2005 (E-12/D3E)

Certification dated 05/11/2006

P.O. Box 1293

Dear Mark,

C:

CO Clerk File

Based upon the information provided in your submittal received 05/11/2006, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

Albuquerque

If you have any questions, you can contact me at 924-3982.

New Mexico 87103

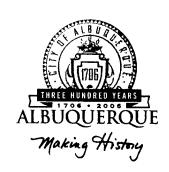
www.cabq.gov

Orlene V. Portello

Arlene V. Portillo

Plan Checker, Planning Dept. - Hydrology

Development and Building Services



September 20, 2005

John M. MacKenzie, PE. Mark Goodwin & Associates, PA. PO Box 90606 Albuquerque, NM 87199

Re: Montano Retail Lands of Joel P. Taylor Tracts 5-A1-B1 & 5-A2-A1,

Grading and Drainage Plan

Engineer's Stamp dated 9-15-05 (E12-D3E)

Dear Mr. MacKenzie,

Based upon the information provided in your submittal dated 9-14-05, the above referenced plan is approved as Amended. P.O. Box 1293

> Prior to release of the Certificate Of Occupancy the following item needs to be addressed.

Albuquerque

Provide an Engineers Certification of the Grading Plan per the DPM checklist.

New Mexico 87103 This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions regarding this permit please feel free to call the

DMD Storm Drainage Design section at 768-3654 (Charles Caruso).

www.cabq.gov

If you have any questions, you can contact me at 924-3695.

Rudy E. Rael Associate Engineer

Planning Department.

Development and Building Services

BW

C: Chuck Carusso DMD

file CC:



February 4, 2005

D. Mark Goodwin, PE Mark Goodwin & Associates P.O. 90606 Albuquerque, NM 87199

Re: Montano Retail Drainage Report

Engineer's Stamp dated 1-27-05 (E12/D3E)

Dear Mr. Goodwin,

Based upon the information provided in your submittal dated 1-28-05, the above referenced report is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

P.O. Box 1293

The existing pond is in a public drainage easement and must be vacated and rededicated to fit the new configuration. Plus, the new pond must be incorporated into your lot or a three-party maintenance agreement must be executed. This must be done prior to C.O.

Albuquerque

Also, prior to Certificate of Occupancy release, Engineer Certification of the grading plan per the DPM checklist will be required.

New Mexico 87103

If you have any questions, you can contact me at 924-3986.

www.cabq.gov

Bradly L. Brigher Bradley L. Bingham, PE

Sincerely,

Principal Engineer, Planning Dept Development and Building Services

C: file

DRAINAGE REPORT for Montaño Retail

Prepared for

Maestas & Ward Steve Maestas 7620 Jefferson NE Albuquerque, NM 87109 (505) 878-0001

Prepared by

Mark Goodwin & Associates, PA P.O. Box 90606 Albuquerque, NM 87199

November 2004



PURPOSE

This report has been prepared in support of the development of a 3.42 acre, currently undeveloped, parcel located at the northwest corner of Montaño Road and Winter Haven Road on Albuquerque's west side. The site is a part of the Montaño Plaza Shopping Center, and as such, this development is proposed to be similar retail facilities.

EXISTING CONDITIONS

In the existing state, an approximate 1.5 ac-ft detention basin is located on this site. With vertical concrete sides, a portion of the pond extends along the southern boundary, while along the east side of the site, and additional extension of the pond with earthen sides parallels Winter Haven Road. Flows from the pond discharge into a 4' x 6' CBC extending from Montaño Road to the site at its southwest corner. The controlled outflow from the ponds to the box culvert is Q = 25.48 cfs (Appendix 1: Summary from 1987 Chavez-Grieves drainage report for Montaño Plaza Addition).

A 2'x 4' CBC storm drain system with grated openings currently traverses this site from the north to south where it outfalls into the detention pond described earlier. From earlier calculations presented in the Chavez-Grieves report, and from the Walgreens @ Coors & Montaño Drainage Report, 1999 Mark Goodwin & Associates, 36.09 cfs (100-yr, 6-hr) enters the site within the described system from the north. An additional 9.53 cfs is added to this system from lateral pipes extending west into the Walgreen's parking lot, and from surface flows originating from this site.

An estimated 18.38 cfs (100-yr, 6-hr) enters the pond from Winter Haven Road through an approximate 12' long grated drop inlet situated along the west curb line in the roadway.

The described pond on this site was originally designed to be a combination detention / sedimentation basin. At the time the pond was constructed, much of the upstream drainage basin was still undeveloped. Sediment laden storm waters would enter the pond, which was over-sized with a near flat earthen bottom. With the reduced velocity through the pond, sediments would settle to the bottom prior to the flood waters entering the 4' x 6' CBC outfall line which increases in size to a 10' x 6' CBC prior to discharging into the Rio Grande River.

PROPOSED CONDITIONS

Since the existing pond, with its dual reaches, encumbers a significant portion of this site, it is proposed that with the development of this site, the pond will be relocated to an undeveloped parcel, currently in the process of being purchased, immediately south of this site, adjacent to Montaño Road. As shown on the Grading & Drainage Plan, a landscaped, earthen sided pond with 3:1 maximum side slopes is planned along Montaño Road, and a 5.5' concrete flood wall separates the pond from this site.

The Grading & Drainage Plan also shows that in developing this site, the existing 2' x 4' CBC carrying a total of 45.62 cfs (100-yr, 6-hr) will remain in place. The southern portion will be re-aligned to enter the new pond on a more tangential alignment. All but the most northerly onsite grated opening will be removed and replaced with traffic rated covers. From the remaining grated inlet, south, the 2' x 4' CBC will be covered and paved over.

Developed Drainage basin **B-1**, 1.85 acres, included the southern ½ of this site. Storm flows within **B-1** will sheet flow with the paved areas to concrete valley gutters. **B-1** flows, 7.30 cfs, will be routed to a concrete lined rundown along the north side of the new pond.

Storm flows within basin **B-2**, 6.19 cfs, will likewise sheet flow to concrete valley gutters that will route the flows to the remaining onsite grated inlet near the northwest entrance to the site. The onsite and offsite flows within the existing 2' x 4' CBC will discharge into the new pond at its northwest quadrant.

Storm flows collected from the Winter Haven Road right-of-way will continue to be collected in the existing drop inlet along its west curb line. The drop inlet will be modified to discharge the accumulated flows to a new 24" RCP storm drain which will extend south along the sites east boundary. The new 24" storm drain will connect to the existing 4' x 6' CBS at the southeast corner of the site.

SUMMARY

The drainage management plan for the Montaño Retail site, as presented in this report, allows for	r the
development of this long vacant parcel in a manner which will ensure that there are no adverse imp	acts
downstream of the site.	

```
AHYMO PROGRAM (AHYMO 97) -
                                                  - Version:
1997.02d
            RUN DATE (MON/DAY/YR) = 10/08/2004
            START TIME (HR:MIN:SEC) = 10:22:25
                                           USER NO. = AHYMO-I-
9702dGoodwinM-AH
            INPUT FILE = C:\PROGRA~1\AHYMO 97\MONTAN~1.DAT
    START
                             TIME=0.0
                            MONTANO RETAIL
    ****
                            CALCULATE & ROUTE STORM FLOWS
                            USE 100 YEAR 6 HOUR STORM EVENT
                            FILE: MONTANORETAIL.DAT 9/23/04 JSD
    ************
    RAINFALL
                        TYPE=1 RAIN QUARTER=0.0 IN
                            RAIN ONE=1.90 IN RAIN SIX=2.25 IN RAIN DAY=
2.63 IN
                            DT=0.03333 HR
                COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS
                 2 - PEAK AT 1.40 HR.
                       .033330 HOURS
                                       END TIME =
                                                    5.999400 HOURS
```

*****FIRST LOOK AT EXISTING FLOW

COMPUTE NM HYD

ID=1 HYD NO=101.0 AREA=0.0053 SQ MI PER A=0 PER B=100 PER C=0 PER D=0 TP=0.1333 HR MASS RAINFALL=-1

dmo

D. Mark Goodwin & Associates, P.A. Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199 (505) 828-2200 FAX 797-9539 e-mail: dmg@swcp.com

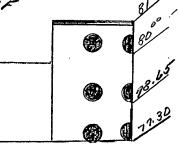
PROJECT Monta	no Ret	bil
SUBJECT COLOS		
BY <i>T50</i>	DAT	11-8-09
CHECKED	ВАТ	-
	SHFFT	OF

MAX. WATER SURFACE ELEV. = 81.00 MAX. OUTFLOW ALLOWED FROM POND = 25.48 CFS W/ 40% CLOG = 35.67 CFS

> Q = CA (26H)1/2 C = , 4 (5HARP EDGE)

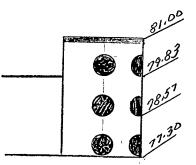
1. TRY (3) 6" HOLES PER ROW: A= 3.194=. 589 SF

ELEV.	Qout (Cf5)
77.80	2
79.15	3.85 12 = 5.85
80,50	5.07 + 3.85 +2 = 10.92
81.00	5.46 + 4.35 + 2.84 = 12,65



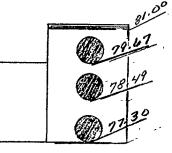
2. TRY (3) 8" HOLES PER ROW: A=13-349 = 1.055F

ELEV.	Qout (cfs)
77.97	4.14
79.24	7.04+ 4.14 = 11.18
80.50	9.04 + 7.04 + 4.14 = 20.22
81.00	9.72 + 7.88 + 5.47 = 23.07



3. TRY (2) 10" HOLES PER ROW: A= 2-1.67 SF

ELEV.	QOUT (CFS)
78.13	7.34
19.32	11.43 + 7.34 = 18.77 CFS
80.50	14.38 + 11.43 + 7.34 = 33.15 CFS
81.00	15.47 + 12.74 + 9,27 = 37.48 CFS



· 1SE (2) 10" HOLES PER ROW DESIGN ALLOWS FOR 32% Clogging Factor



D. Mark Goodwin & Associates, P.A. Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199 (505) 828-2200 FAX 797-9539

e-mail: dmg@swcp.com

PROJECT Mod	tono Retail
SUBJECT Deal	inige Colos
BY <i>J50</i>	INAGE CALCS DATE 10-10-04
	DATE
	SHEETOF

MONTANO RETAIL DETENTION POND SUMMARY

ELEV.	AREA (SF)	VOL (AC-FT)	E VOL (AC-FT)	Q 00+ (Cf5)
76	8,028	0	0	0
78	10,635	.43	.43	6.73
80	13,200	.55	.98	¥28.37
21.0	14/135	.63	1.18	*37.48

* Lising 32% Clopging Factor Qout = 37.48 - (.32.37.48) = 25,49 cfs

W/ TOP OF WALL ELEV. @ 81.50, 0.5' OF FREEBOARD IS AVAILABLE ABOVE EMERGENCY SPILLWAY



Planning Department Transportation Development Services Section

May 31, 2006

Mr. George Rainhart, Registered Architect GEORGE RAINHART AND ASSOCIATES 2325 San Pedro Drive NE, STE 2B

Albuquerque, NM 87110

Certification Submittal for Final Building Certificate of Occupancy for Re:

MONTANO RETAIL, [E-12 / D3E] 6001 Winter Haven Road NE Architect's Stamp Dated 05/30/2006

P.O. Box 1293

Dear Mr. Rainhart:

Albuquerque

The TCL / Letter of Certification submitted on May 31, 2006 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Sincerely,

New Mexico 87103

offer sy Wilfred Gallegos, P.E.

Traffic Engineer www.cabq.gov

Development and Building Services

Planning Department

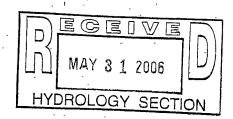
C: Engineer Hydrology file

CO Clerk

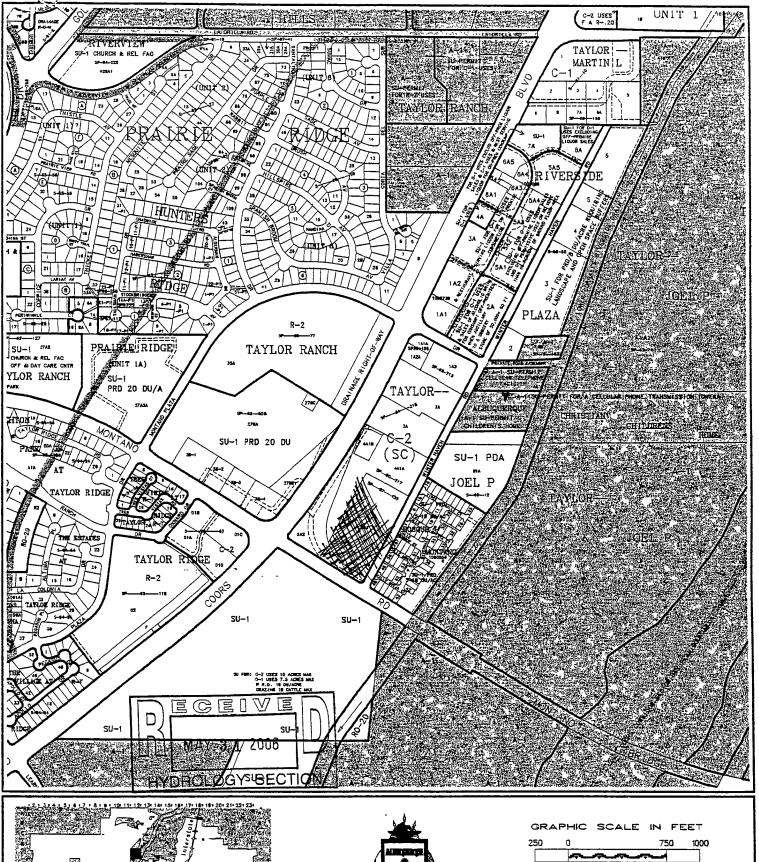
TRAFFIC CERTIFICATION

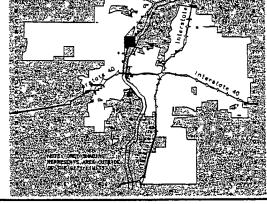
,	÷.				
I, GEORGE	ReinHart	, NMPE C	R NMRA	* 5 8 0	. OF
THE FIRM (EORGE PAIN	Hart &	A ssoc	, HEREBY CER	TIFY THAT
THIS PROJEC				COMPLIANCE V	
ACCORDANC	E WITH THE D	ESIGN INT	ENT OF TH	E APPROVED P	LAN DATED
8.29.05		ECORD INF		VEDITED ONTO	
ORIGINAL DI	ESIGN DOCUMI	ENT HÁS B	EEN OBT <u>A</u> J	NED BY	**
L/ILIKM SU	HIES OF THE	firm G i	OKGE PA	Unlert. IFU	J RTHER
CERTIFY THA	AT I HAVE PERS	SONALLY	VISITED TE	E PROJECT SIT	E ON
MAY 30.	2006 A	ND HAVE I	DETERMIN	ED BY VISUAL	INSPECTION
THAT THE SC	JRVEY DATA P				
CONDITIONS	AND IS TRUE 2	AND CORR	ECT TO TH	E BEST OF MY	4
	E AND BELIEF.			I IS SUBMITTEI) IN
SUPPORT OF	A REQUEST FO	R CERTI	EICX+E (of Occupan	cu (c.o.)
		, s			/ ` '
	INFORMATION				
COMPLETE A	ND INTENDED	ONLY TO	VERIFY SU	BSTANTIAL CO	MPLIANCE *
OF THE TRAF	FIC ASPECTS O	OF THIS PR	OJECT. TH	OSE RELYING	ON THE
	CUMENT ARE A				
	N OF ITS ACCU	TRACY BEI	ORE USING	G IT FOR ANY C	THER
PURPOSE.	FNEW	•			
//4/	FINEWARE		•		
	121	· · · · · · · · · · · · · · · · · · ·		- 1	
G	EORGE R.				•
	MAINHART	, `	•		
	NO. 580		-		~ -
					-
	ARCH	,	- , '		•
			ENGINEER	'S OR ARCHITE	CT'S STAMP
Signature of En	gineer or Archite	ect	•		5

5. 30.00 Date



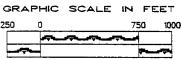








C Copyright 2001.



Zone Atlas Page

Map Amended through July 19, 2001.

