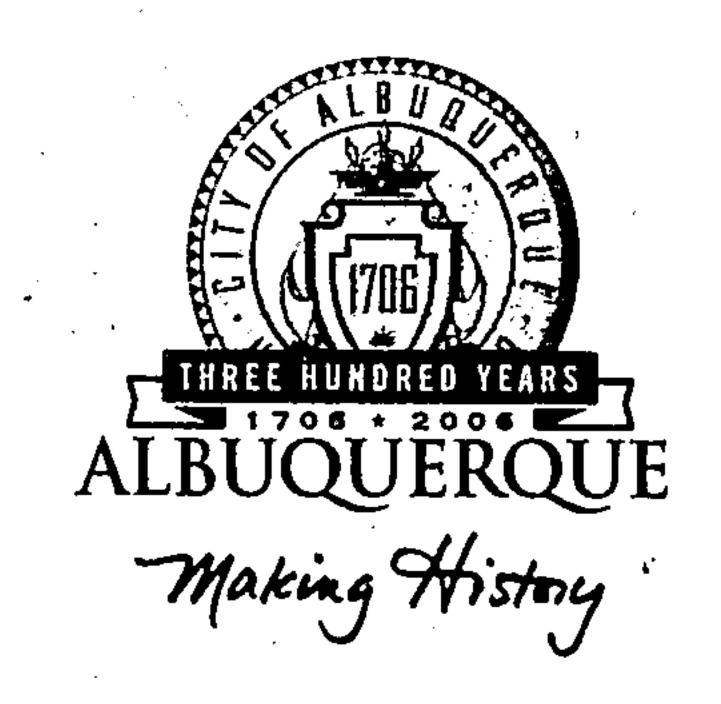
CITY OF ALBUQUERQUE



November 14, 2005

David Soule, P.E.
Rio Grande Engineering
1606 Central Ave. SE, Suite 201
Albuquerque, NM 87106

Re: Torreta Oeste, SIA/Financial Guarantee Release

Engineer's Stamp dated 3-09-04 (L9-D35)

Certification dated 10-01-05

Dear Mr. Soule,

Based upon the information provided in your submittal received 11-10-05, the above referenced certification is approved for release of SIA and Financial Guarantee.

P.O. Box 1293

If you have any questions, you can contact me at 924-3981.

Albuquerque

New Mexico 87103

Sincerely,

Kristal D. Metro, P.E.

Senior Engineer, Planning Dept.

Development and Building Services

www.cabq.gov

C: Marilyn Maldonado, COA# 740681

file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 01/28/2003rd)

PROJECT TITLE: TORRETA OESTE ZONE MAP/DRG. FILE #: L9/EDRB #: WORK ORDER #:)35
LEGAL DESCRIPTION: Tract 442, Lands of Atrisco Grant, Unit 3 CITY ADDRESS: North of San Yngacio between 97th and 94th Streets	
Citt ADDRESS. North of San Tilgacio between 37th and 34th Streets	· · · · · · · · · · · · · · · · · · ·
ENGINEERING FIRM: Rio Grande Engineering CONTACT: David Soule, PE	•
ADDRESS: 1606 CENTRAL SE SUITE 201 PHONE: (505)321-9099	·
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87106	· · · · · · · · · · · · · · · · · · ·
	•
OWNER: STV Investment CONTACT: Tim McNanney	
ADDRESS: 1015 Tijeras NW, Suite 210 PHONE: 321-9099	 ,
CITY, STATE: <u>Albuquerque, NM</u> ZIP CODE: 87102	
ARCHITECT: CONTACT:	
ADDRESS:	
CITY, STATE: ZIP CODE:	-
SURVEYOR: SURV-TEK CONTACT: RUSS HUGG	
SURVEYOR: SURV-TEK CONTACT: RUSS HUGG PHONE:	
CITY, STATE:	
ZII CODE.	· · · · · · · · · · · · · · · · · · ·
CONTRACTOR: CONTACT:	
ADDRESS: PHONE:	·
CITY, STATE: ZIP CODE:	·
CHECK TYPE OF SUBMITTAL: CHECK TYPE OF APPROVAL SOUGHT:	•
DRAINAGE REPORT	F RFI FASE
DRAINAGE PLAN 1st SUBMITTAL, <i>REQUIRES TCL or equal</i> PRELIMINARY PLAT APPROVA	
DRAINAGE PLAN RESUBMITTAL S. DEV. PLAN FOR SUB'D. APR	
CONCEPTUAL GRADING & DRAINAGE PLAN S. DEV. PLAN FOR BLDG. PER	
GRADING PLAN APPROVAL	
EROSION CONTROL PLAN FINAL PLAT APPROVAL	
X ENGINEER'S CERTIFICATION (HYDROLOGY) FOUNDATION PERMIT APPRO	VAL
CLOMR/LOMR BUILDING PERMIT APPROVAL	•
TRAFFIC CIRCULATION LAYOUT (TCL)	Y (PERM.)
ENGINEERS CERTIFICATION (TCL) CERTIFICATE OF OCCUPANC	Y (TEMP.)
ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN) GRADING PERMIT APPROVAL	•
OTHER PAVING PERMIT APPROVAL	
WORK ORDER APPROVAL	
	<u> </u>
MAS A PRE-DESIGN CONFEDENCE ATTENDED.	5 11 U / 1
WAS A PRE-DESIGN CONFERENCE ATTENDED: VES. NOV 1 0 200	5
YES	
YES	
YES IN AND AND IN THE	

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a dranage submittal.

The particular nature, location and scope of the proposed development defines the degree of drainage detail.

One or more of the following levels of sumbittal may be required based on the following:

- 1. Conceptual Grading and Drainage Plans: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

RIO GRANDE ENGINERING

LETTER OF TRANSMITTAL

	·				DATE: 6/14/2004 JOB NO: 2305
	•				ATTENTION: Brad
-1 -		(505) 321-	9099		
'	3500 Comanch		Albuquerque, NM	87107	RE: Torretto Oeste
					L9/D35 (Tower West)
TO	Brad Bingham				227220 C(OWC)
10	Hydrology Sec				
			** ***********************************		
	Public Works I	Deparument	——————————————————————————————————————	 	·
	Plaza del Sol	 			<u></u>
WE A	ARE SENDING YO	OU	Attached		Under Separate cover via the following items:
	Shop drawings		Prints		Plans Samples Specifications
-	Copy of letter		Change order	L	
	J Copy of fotter		Cinaigo oraci	<u> </u>	
	COPIES	DATED	NO.		DESCRIPTION
	1			Grading p	ermision on adjacent tracts
					
					
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		···			
					
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		- 			HYDROLOGY SECTION
· <u> </u>		· · · · · · · · · · · · · · · · · · ·		-	
THE	SE ARE TRAN	ISMITTED as c	hecked below:		
X	For approval		Approved as submi	tted	FOR SIGNATURE(S)
	For your use		Approved as noted		··
X	As requested		Returned for correct	tions	
·	For review and c	omments		•	
· · · · · · · · · · · · · · · · · · ·	FOR BIDS DUE	<u></u>	19		PRINTS RETURNED AFTER LOAN TO US
	- -		•		
		REMARKS		Brad this is f	for the two lots adjacent to the referenced subdivision.
	·				· · · · · · · · · · · · · · · · · · ·
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KEU	EIVED BY		- · - · · · · · · · · · · · · · · · · ·		SIGNED David Soule



June 9, 2004

Ms. Margaret Garcia 3100 Brian Meadows Place Albuquerque, NM 87120

RE:

Permission to Grade

Lots 16 & 17

Montano-Vincent Subdivision

Dear Ms Garcia:

My name is David Soule, I am a Civil Engineer. My firm Rio Grande Engineering has been hired to assist in the development of Torretta Oeste Subdivision. This subdivision is currently known as Tract 442, Lands of Atrisco Grant. Your two lots back up to two lots within the subdivision we are working on. The purpose of my letter is to request permission from you to grade a small portion of you property along your eastern boundary. Your lots currently drain from west to east and contain a depressed area at your western boundary. We would like to have permission to improve your property by filling in the low spots so the lot will drain to the south. This benefits my client such that he does not have to build a retaining wall at the property line. This activity benefits you in that your land will be leveled in the rear and the minor ponding and arroyo will be eliminated. The fill material will be clean dirt, and will be placed, and compacted to 95% of optimum density. I have enclosed a copy of what I propose to do. Please let me know if you would be willing to grant us permission to perform the minor grading. Should you have any questions or wish to discuss this matter further, feel free to contact me at any time.

Sincerely.

MI

David Soule, PE

3500 Comanche NE, Suite E-5 Albuquerque, New Mexico 87107

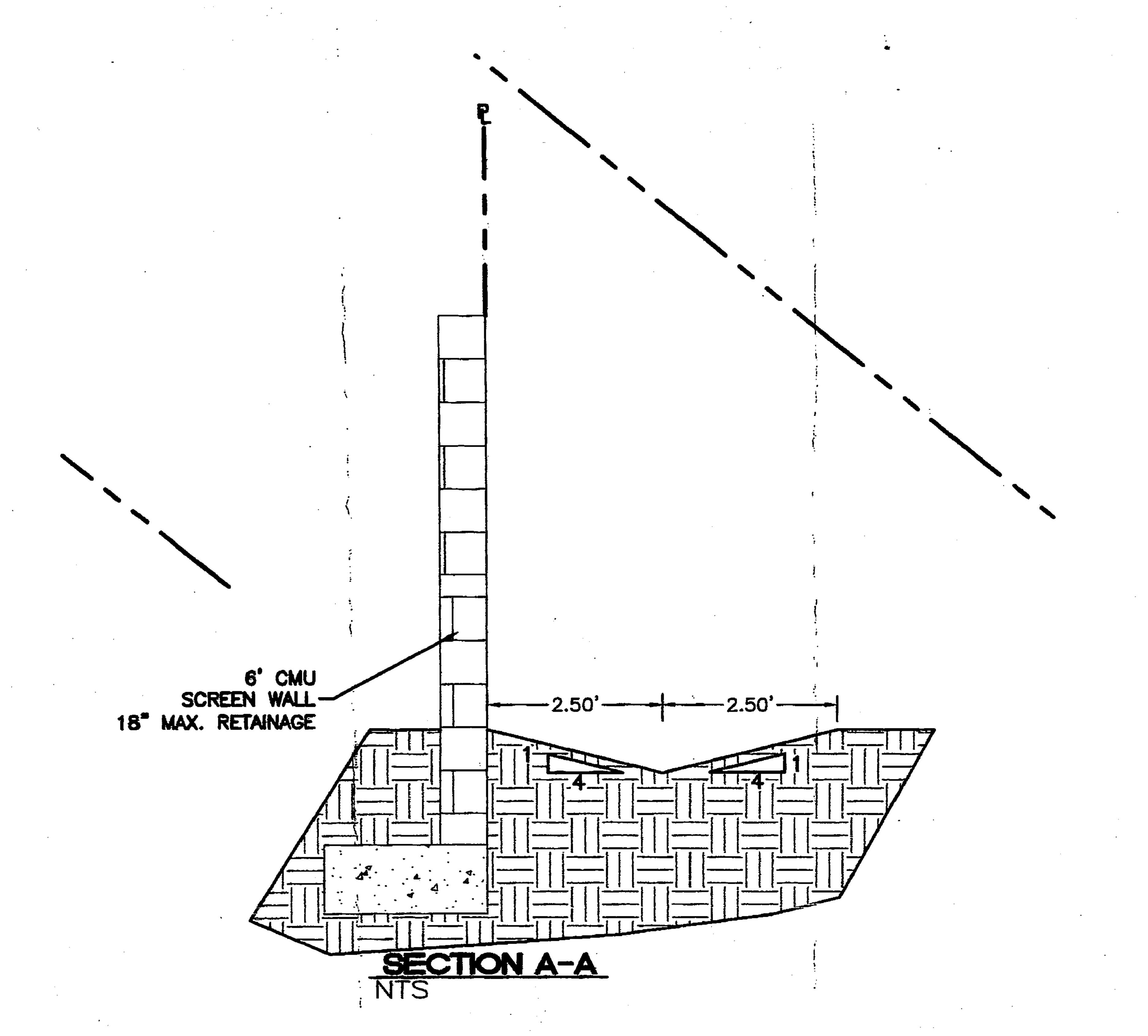
505-321-9099

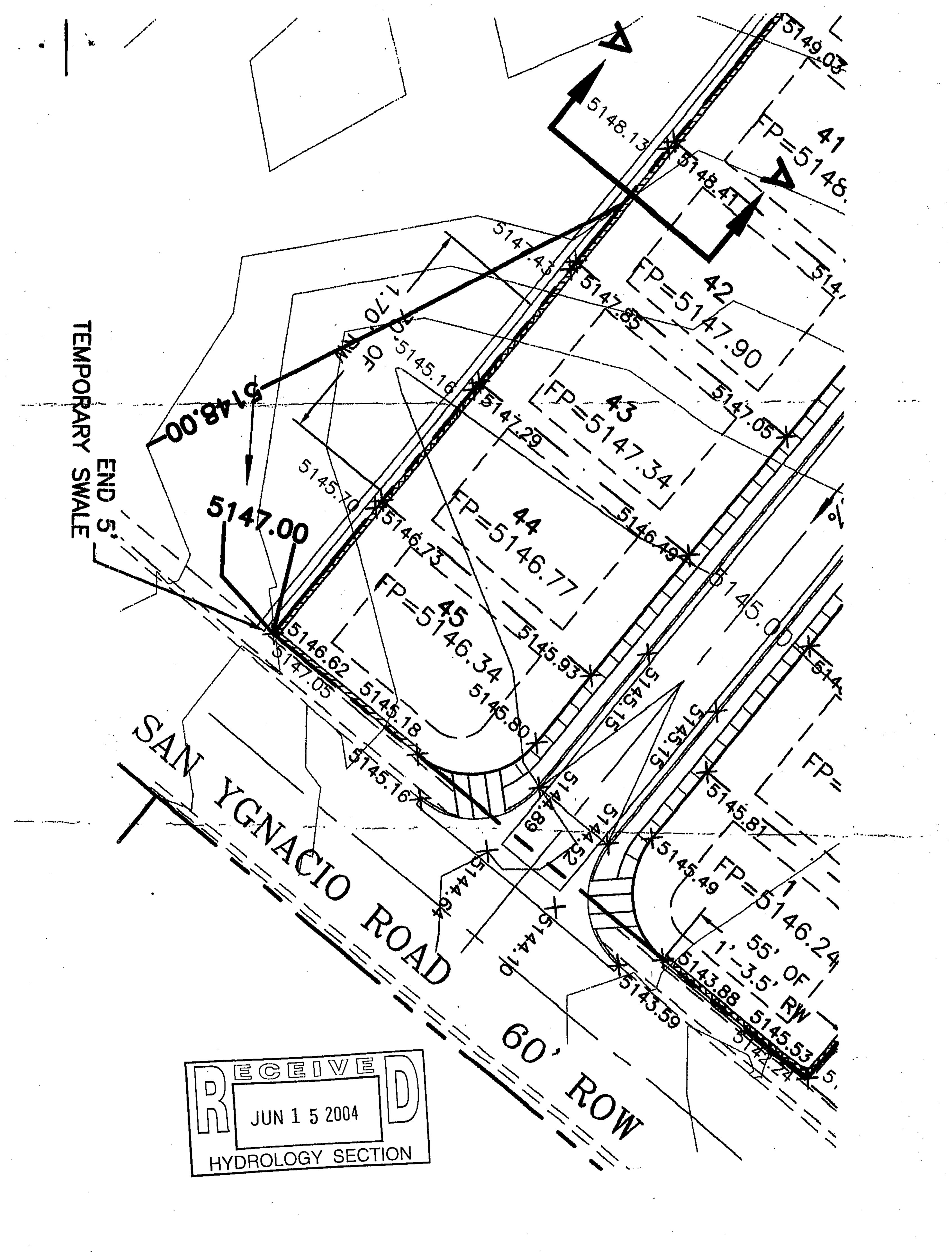
david@riograndeengineering.com

JUN 1 5 2004 HYDROLOGY SECTION

I Margaret Harria grant permission to grade at Developer expense

Margaret Danciai 6/14/04







City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 29, 2004

David Soule, PE
Rio Grande Engineering
3500 Comanche Rd NE, Ste E-5
Albuquerque, NM 87107

Re: Torreta Oeste Subdivision Drainage Report

Engineer's Stamp dated 3-9-04 (L9/D35)

Dear Mr. Soule,

Based upon the information provided in your submittal dated 3-10-04, the above referenced report is approved for Preliminary Plat action by the DRB. Once that board has approved the plan, please submit a mylar copy for my signature in order to obtain a Rough Grading Permit. Prior to Work Order or Final Plat written permission of the upstream owners would be required in order to grade on their property. Otherwise, lots 44 and 45 must be a tract with a temporary easement on it until those properties develop.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. Refer to the attachment that is provided with this letter for details. If you have any questions please feel free to call the Municipal Development Department, Hydrology section at 768-3654 (Charles Caruso) or 768-3645 (Bryan Wolfe).

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

Sincerely,

Bradley L. Bingham, PE

Principal Engineer, Planning Dept.

Development and Building Services

C: Chuck Caruso, DMD file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 01/28/2003rd)

L-9/D35

PROJECT TITLE:	Tower West	ZONE MAP	/DRG. FILE #: <u>I-9</u>	· ·
DRB#: 100318	36 EPC #:	WORK ORE)ER #:	•
LEGAL DESCRIPTION:	Troot 442 Landa of Atricas Creek Heit 2			
CITY ADDRESS:	Tract 442, Lands of Atrisco Grant, Unit 3 North of San Yngacio between 97th and 94	1th Straats		
		THE OLICEIS	· · · · · · · · · · · · · · · · · · ·	
ENGINEERING FIRM:	Rio Grande Engineering	CONTACT:	David Soule, PE	
ADDRESS:	3500 Comanche Blvd. NE	PHONE:	(505)321-9099	
CITY, STATE:	ALBUQUERQUE, NM	ZIP CODE:	87107	
OWNER:	STV Investment	CONTACT:		· · · · · · · · · · · · · · · · · · ·
ADDRESS: CITY, STATE:	1015 Tijeras NW, Suite 210	PHONE:	321-9099	
OILI, SIAIE.	Albuquerque, NM	ZIP CODE:	87102	
ARCHITECT:		CONTACT:	•	-
ADDRESS:	· · · · · · · · · · · · · · · · · · ·	PHONE:		
CITY, STATE:	· · · · · · · · · · · · · · · · · · ·	ZIP CODE:		
		<u> </u>		
SURVEYOR:	Advanced Engineering	CONTACT:	Shawn Biazar	
ADDRESS:		PHONE:	899-5570	
CITY, STATE:		ZIP CODE:		
CONTRACTOR		00117107		
CONTRACTOR: ADDRESS:	· · · · · · · · · · · · · · · · · · ·	CONTACT: PHONE:		
CITY, STATE:		ZIP CODE:		
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			·	
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	AN 1st SUBMITTAL, REQUIRES TCL or equal	X PRELIMINA	RY PLAT APPROVAL	
	AN RESUBMITTAL		AN FOR SUB'D. APPROVAL	
	GRADING & DRAINAGE PLAN		AN FOR BLDG. PERMIT APPI	ROVAL
X GRADING PLAI EROSION CON	•		LAN APPROVAL	
	ERTIFICATION (HYDROLOGY)		CAPPROVAL ON PERMIT APPROVAL	•
CLOMR/LOMR			PERMIT APPROVAL	
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ENGINEERS C	ERTIFICATION (DRB APPR. SITE PLAN)	X GRADING F	PERMIT APPROVAL	
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			DER APPROVAL	
		OTHER (SP	ECIFY)	
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WAS A PRE-DESIGN CON				
x YES				
NO `	MAR 1 0 200	4		
COPY PROVIDI	ED		. //	
	HYDROLOGY SE	CTION	121/1/	
DATE SUBMITTED:	3/9/2004	BY:	David Soule	-
•		 -		

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a dranage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail.

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DRAINAGE REPORT

for

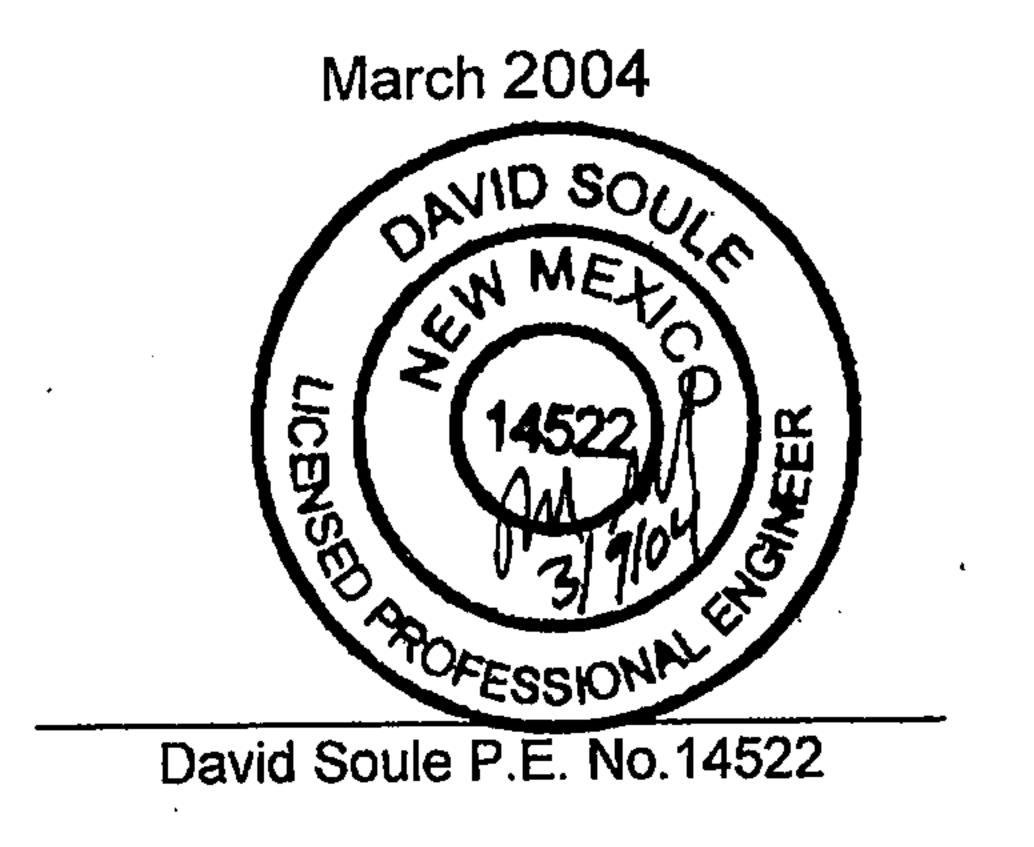
Tower West Subdivision

Tract 442 Lands of Atrisco Grant, Unit 3 Albuquerque, New Mexico

Prepared by

Rio Grande Engineering 3500 Comanche Blvd NE, Suite E5 Albuquerque, New Mexico 87107

> Prepared for STV Investments, LLC 1015 Tijeras NW, Suite 210 Albuquerque, New Mexico 87102



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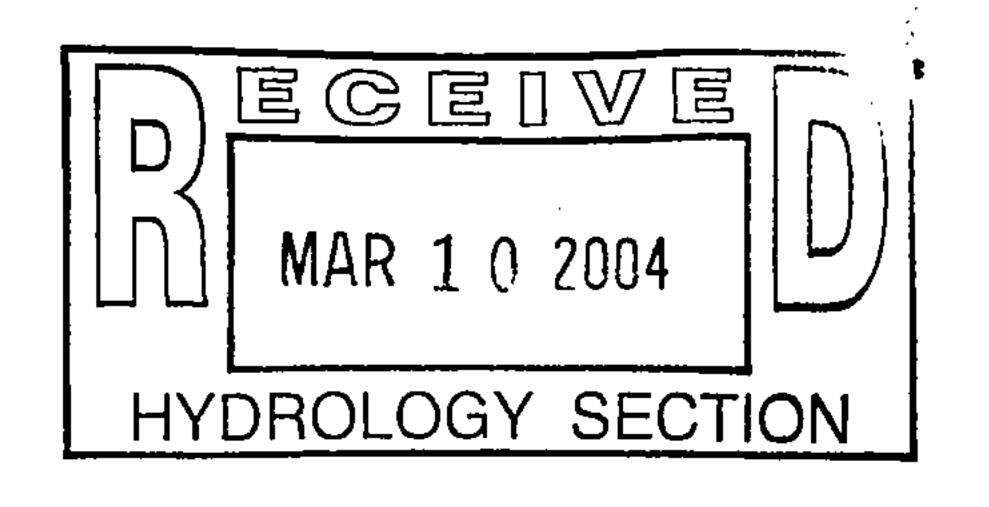


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PURPOSE

The purpose of this report is to provide the Drainage Management Plan for the development of the Tower West Subdivision. This plan will be utilized for the development of the subject property, currently known at Tract 442, Lands of Atrisco Grant, Unit 3. The proposed development will consist of 45 Single Family Residential Lots. This plan was prepared in accordance with the City of Albuquerque's Development Process Manual Drainage Regulations. This report will demonstrate that the proposed improvements will not adversely effect the surrounding properties, nor the upstream or downstream facilities.

INTRODUCTION

The subject of this report, as shown on the Exhibit A vicinity map, is a 5.23-acre parcel of land located on San Ygnacio between 94th Street and 98th. The legal description of the property is Tract 442, Lands of Atrisco Grant, Unit 3. The site is currently undeveloped Land. The subject property is located within the Tower/Sage Master Drainage Plan Boundaries. The site is within the boundaries of SAD 222. The development this property is in conformance to the Tower/Sage Master Drainage Plan. The upstream and downstream storm drainage facilities are in place and the Special Assessment levied on the property for these improvements was paid. Therefore this property is allowed to free discharge up to 20.76cfs.

EXISTING CONDITIONS

This site generally slopes form the northwest to the south east with average grades between 1-4%. As shown on FIRM map 35001C0336E, the site lies within flood zone X. The site is currently impacted by minor offsite flows, which pass through the site. Once the adjacent land is developed no offsite flows will enter the site. These flows consist of the runoff from the adjacent undeveloped 6.88 acres. These flows enter the site as sheet flow along the entire

western property line. The combined flows discharge 15.45 cfs onto San Ygnacio at the sites southeast corner. Once the flows leave the site they are conveyed within the San Ygnacio Right of way until they are captured by a set of inlets located downstream. The storm drainage system was designed to accommodate the fully developed conditions of the contributing basin that include this site.

PROPOSED CONDITIONS

The proposed improvements consist of the 45 Single family Residential Homes and approximately 1000 linear feet of a 26' wide Public Road. The onsite lot grading shall consist of a building pad and rear and side yard swales with typical grades of 1%. Each lot will drain directly to the adjacent Right of way. The proposed roadway will consist of a 2% crowned roadway with Mountable Curb and Gutter as shown in the City of Albuquerque Standard Specifications. As shown on the basin map located in Appendix B, the site consists of 2 onsite basins, an 1 offsite basin. The developed storm water discharge rates were calculated using the Simplified Procedure for 40 acre and smaller basins as shown in Chapter 23-part A of the DPM. As shown in Appendix A, the total developed flow leaving the site is predicted to be 20.66 cfs. The upstream undeveloped flow of 8.7 cfs will be diverted to San Ygnacio via a temporary swale along the projects west property line. Due the undeveloped nature of the offsite flows and the immediate developability of the upstream basins the temporary swale will be earthen. The streets stormwater conveyance capacity was calculated with the Mannings Equation and an Excel Spreadsheet. As Shown in Appendix B, the 100-year peak discharge rate of 20.66 will stay within the Roadway. The Energy grade line of this flow will be contained within the Right of Way.

As shown in the Tower/Sage Master Drainage Study, this site is located within Basin B1-D. Therefore this site is allowed to discharge 20.76 onto San Ygnacio. Since the site is predicted to discharge 20.66 cfs, the downstream conveyance system will not be adversely impacted.

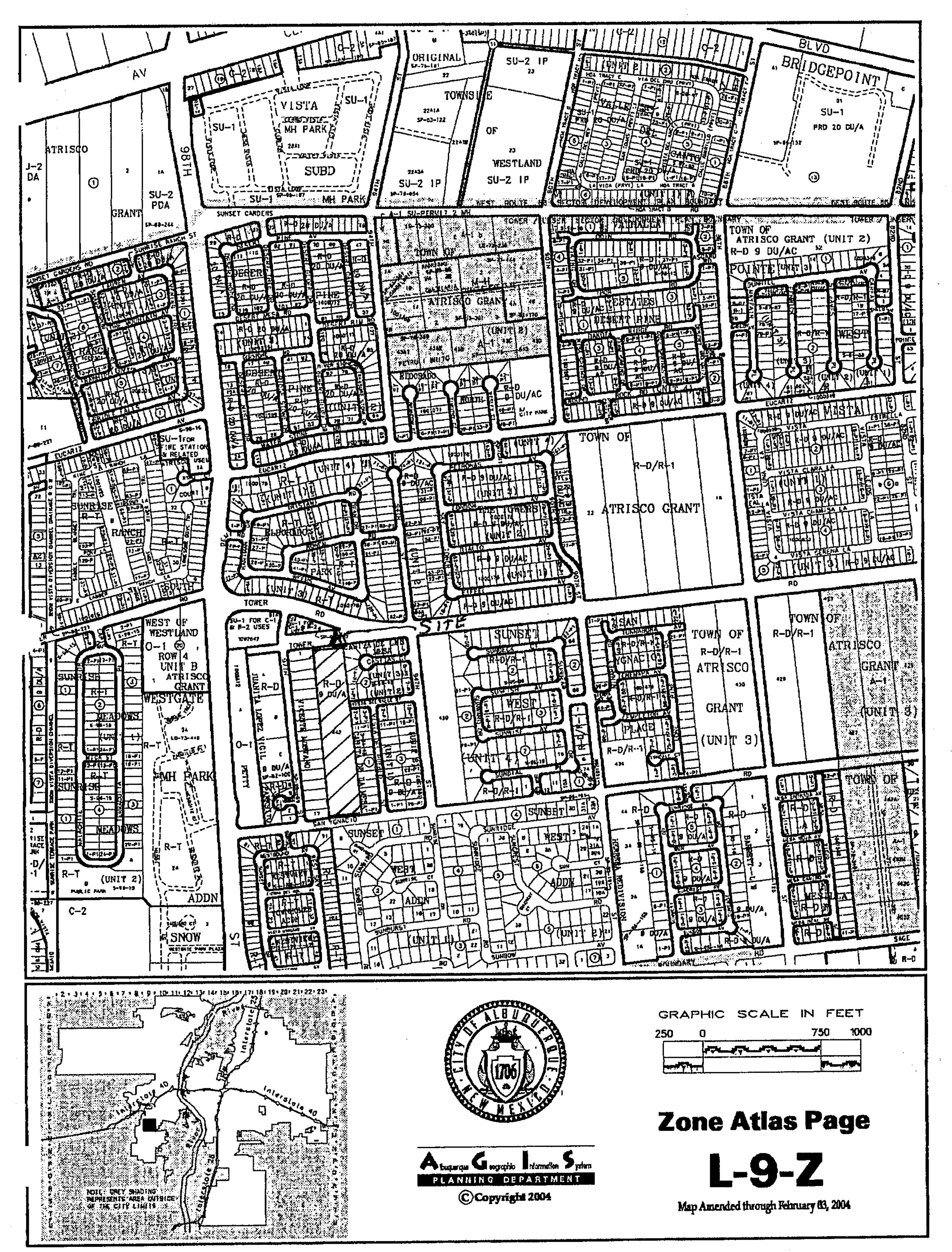


EXHIBIT A-VICINITY MAP

SUMMARY AND RECOMMENDATIONS

This site is an undeveloped parcel of land located within the Boundaries of the Tower/Sage Master Drainage Study. As dictated by this study, this site is allowed to discharge 20.76 cfs to the San Ygnacio Right of way. The surrounding roadways and storm drainage facilities were completed with Special Assessment District 222.. The onsite developed storm water discharge will be conveyed via surface flow by each individual lot to the adjacent Roadway. The public street has capacity to convey the total onsite flow. The San Ygnacio roadway and the downstream storm drainage facilities were designed to convey the developed flow leaving this site. The minor offsite flows will be conveyed to San Ygnacio via a temporary earthen swale along the west property line. Due to the immediate development capability of the upstream basin, the swale will not be hardened. Since the proposed site development does not adversely affect the upstream or downstream facilities of the site we recommend approval of the site-grading plan. The onsite improvement will be constructed under the City of Albuquerque's Work Order Process. Since this site encompasses more than 1 acre, a NPDES permit will be required prior to any construction activity.

APPENDIX A SITE HYDROLOGY

Weighted E Method

Existing Basins

Exioning Duc												100-Yea	ar
Racin	Area	Area	Treat	ment A	Treat	ment B	Treat	ment C	Treat	nent D	Weighted E	Volume	Flow
Basin	(sf)	(acres)	%	(acres)	'%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs
Λ	228000.00	5.234	100%	5.2341598	0%	0.000	0%	0	0%	0.000	0.440	0.192	6.75
OFFCITE I	296208.00	6.800	100%		0%	0.000	0%	0	0%	0.000	0.440	0.249	8.77
OFFSILE			10070		1	0.000		O		0.000		0.441	15.52
Total	524208.00	12.034		12.03416	1	0.000	<u></u>						

Proposed Developed Basins

100000 E	ovoropou bys.				. A. S., 4	•	<u> </u>				1	00-Year, 6-hr.		10-day
Basin	Area	Area	Treatn	nent A	Trea	tment B	Trea	tment C	Treat	ment D	Weighted E	Volume	Flow	Volume
Dasiii	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cts	(ac-ft)
Δ	228000.00	5.234	0%	0	11%	0.576	11%	0.57576	78%	4.083	1.719	0.750	20.66	1.294
		6.800	100%	6.8	0%	0.000	0%	0	0%	0.000	0.440	0.249	8.77	0.249
	296208.00		10070			0.576		0.57576		4.083		0.999	29.43	1.54
Total	524208.00	12.034		6.8		0.070		0.07070						

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

Where for 100-year, 6-hour storm

Ea= 0.44 Qa= 1.29 Eb= 0.67 Qb= 2.03 Ec= 0.99 Qc= 2.87 Ed= 1.97 Qd= 4.37

APPENDIX B HYDRAULIC CALCULATIONS

Street Capacity Calculations

Unnamed street 26' F-F Street Section with 4" curb Slope= 0.0125

For water depths less than 0.0625 feet

Water depth Y=

16*Y^2 Area =

P≕ SQRT(1025*Y^2) + Y

0.017 n=

Depth (ft)	Агеа (ft^2)	P (ft)	R (A/P)	Q (cfs)	2Q (cfs)	Vel (ft/s)	D*V	Fr	D2 (ft)
0.01	0.0016	0.33	0.00	0.00	0.00	0.28	0.00	0.49	0.00358
0.02	0.0064	0.66	0.01	0.00	0.01	0.44	0.01	0.55	0.00858
0.025]	0.83	0.01	0.01	0.01	0.52	0.01	0.57	0.01135
0.035	i F	1.16	0.02	0.01	0.03	0.65	0.02	0.61	0.0173
0.045	I	1.49	0.02	0.02	0.05	0.76	0.03	0.63	0.02368
0.052	!	1.72	0.03	0.04	0.07	0.84	0.04	0.65	0.02836
0.06		1.98	0.03	0.05	0.11	0.92	0.06	0.66	0.03389
0.0625		2.06	0.03	0.06	0.12	0.95	0.06	0.67	0.03566

For water depths greater than 0.0625 ft but less than 0.3025 ft Y1= Y-0.0625

A1 + 2*Y1 + 25*Y1^2 A2=

P1 + SQRT(2501*Y1^2)+Y1 P2=

Depth (ft)	Area (ft^2)	P (ft)	R (A/P)	Q (cfs)	2Q (cfs)	Vel (ft/s)	D*V	Fr	D2 (ft)
0.063	0.063506	2.09	0.03	0.06	0.12	0.95	0.06	0.67	0.03587
0.1	0.172656	3.98	0.04	0.21	0.42	1.21	0.12	0.67	0.05749
0.13	0.311406	5.51	0.06	0.45	0.90	1.44	0.19	0.70	0.07979
	0.495156	7.04	0.07	0.82	1.65	1.67	0.27	0.73	0.10432
	0.810156	9.08	0.09	1.58	3.16	1.95	0.39	0.77	0.13942
0.207	0.873506	9.43	0.09	1.75	3.49	2.00	0.41	0.77	0.14579
0.2612	1.446942	12.20	0.12	3.41	6.83	2.36	0.62	0.81	0.19705
0.2012	1.9825	14.31	0.14	5.19	10.38	2.62	0.79	0.84	0.23807

For water depths greater than 0.3025 ft but less than 0.333 ft

Y2= Y - 0.3025

A2 + Y2*14A3=

P2 + Y2 P3=

Depth (ft)	Area (ft^2)	P (ft)	R (A/P)	Q (cfs)	2Q (cfs)	Vel (ft/s)	D*V	Fr	D2 (ft)
0.303		14.31	0.14	5.22	10.44	2.62	0.79	0.84	0.23896
0.3039		14.31	0.14	5.27	10.55	2.63	0.80	0.84	0.24056
0.3062		14.31	0.14	5.42	10.83	2.66	0.82	0.85	0.24466
0.0002	2.0875	14.31	0.15	5.65	11.31	2.71	0.84	0.86	0.25145
0.3125		14.32	0.15	5.81	11.62	2.74	0.86	0.86	0.25592
0.32		14.32	0.16	6.30	12.59	2.83	0.90	0.88	0.26937
0.3317		14.34	0.17	7.08	14.16	2.96	0.98	0.91	0.29044
0.333		14.34	0.17	7.17	14.34	2.98	0.99	0.91	0.29279

For water depths greater than 0.333 ft but less than 0.513 ft

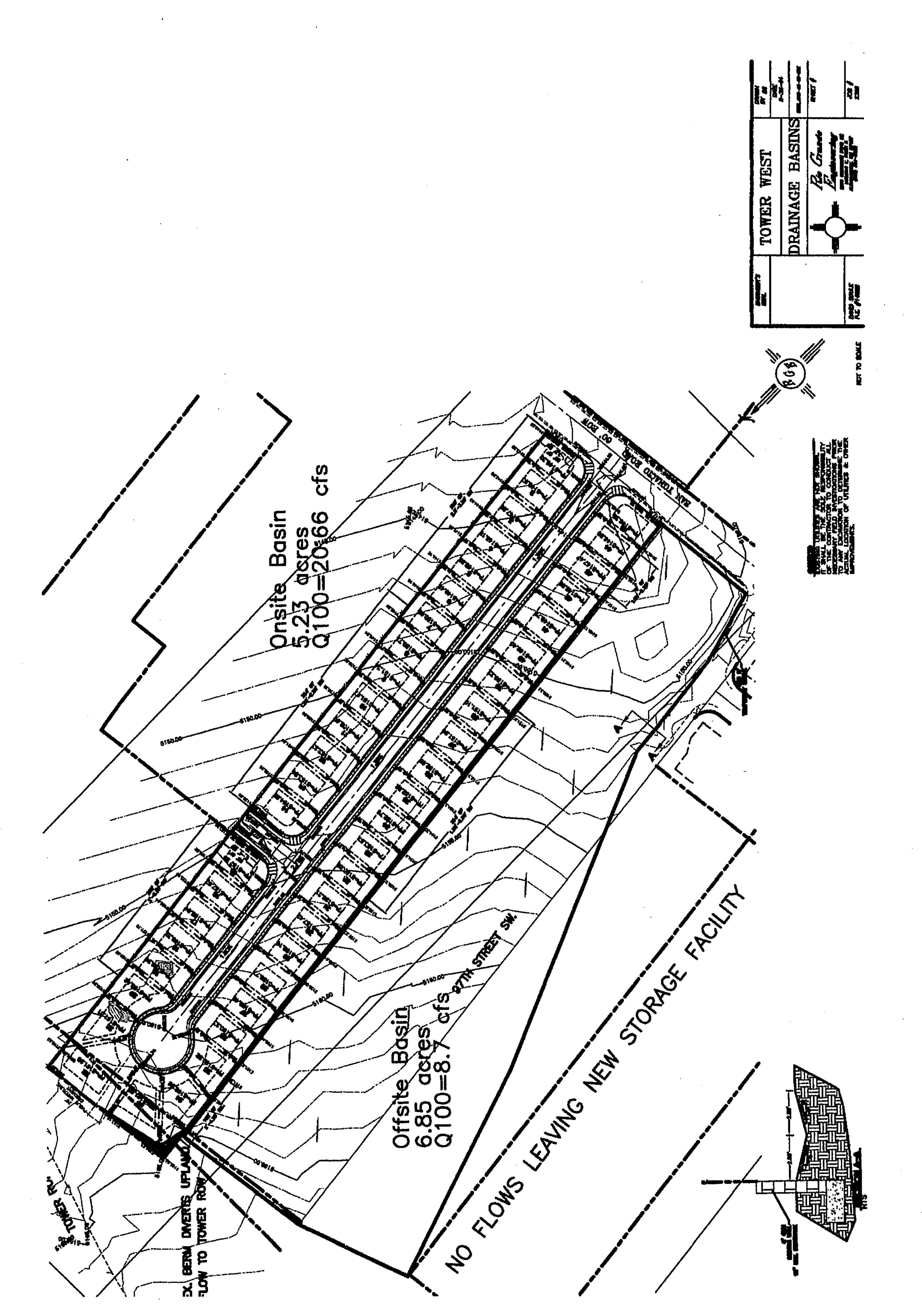
Y3= Y - 0.333

A3 + 13 * Y3 + 25 * Y3^2 **A4=**

P3 + SQRT(2501 * Y3^2) P4=

Depth (ft)	Area (ft^2)	P (ft)	R (A/P)	Q (cfs)	2Q (cfs)	Vel (ft/s)	D*V	Fr	D2 (ft)
^.335		14.44	0.17	7,27	14.54	2.98	1.00	0.91	0.29437
.01	2.78016	15.69	0.18	8.57	17.14	3.08	1.11	0.91	0.31492
	3.075725	16.69	0.18	9.74	19.47	3.17	1.20	0.90	0.33208
LL	3.223173		0.19	10.33	20.66	3.21	1.25	0.91	0.34048
1	4.469532	20.70	0.22	15.72	31.44	3.52	1.62	0.91	0.40752
0.4603		22.89	0.23	19.92	39.85	3.71	1.87	0.92	0.45189
0.504	1 1	23.34	0.24	20.88	41.76	3.76	1.93	0.92	0.46127
0.513	5.5595	23.54	0.24	20.00					

APPENDIX C DRAINAGE BASIN MAP



MAP POCKET A SITE GRADING PLAN