

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Jackie McDowell
McDowell Engineering, Inc.
7820 Beverly Hills Ave. NE
Albuquerque, New Mexico 87122

RE: ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY

APPROVAL, MECHENBIER LOT 5 (F22-D11A6), ENGINEER'S STAMP

DATED 1-22-99

Dear Ms. McDowell:

Based upon the information contained in our 1-25-99 submittal, Certificate of Occupancy approval for the referenced project is granted.

If I can be of further assistance, please feel free to contact me at 924-3986.

Sincerely,

Scott Davis

PWD, Hydrology Div.

c: Andrew Garcia file

DRAINAGE INFORMATION SHEET

PROJECT TITLE: MECHENBIER LOT 5 ZONE	ATLAS/DRNG. FILE #: F22-D11A6
DRB #: EPC #:	WORK ORDER #:
LEGAL DESCRIPTION: LOT #5, TRAMWAY RIDG	E SUBDIVISION
CITY ADDRESS: 4800 TRAMWAY RIDGE	
ENGINEERING FIRM: MCDOWELL ENGINEERING,	INC. CONTACT: JACKIE MCDOWELL
ADDRESS: 7820 BEVERLY HILLS AVE. NE	, 87122PHONE: 828-2430
OWNER: MECHENBIER CONSTRSUCTION	CONTACT: JOHN MECHENBIER
ADDRESS: 8804 WASHINGTON ST. NE	PHONE: 828-1676
ARCHITECT:	CONTACT:
ADDRESS:	PHONE:
SURVEYOR: PRECISION SURVEYS	CONTACT:
ADDRESS:	PHONE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE :
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TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SKETCH PLAT APPROVAL
DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
CONCEPTUAL GRADING & DRAIN. PLAN	S.DEV PLAN FOR SUB'D APPROVAL
GRADING PLAN	S.DEV PLAN FOR BLDG PMT APPR.
EROSION CONTROL PLAN	SECTOR PLAN APPROVAL
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OTHER	FOUNDATION PERMIT APPROVAL
	BUILDING PERMIT APPROVAL
PRE-DESIGN MEETING:	X CERT. OF OCCUPANCY APPROVAL
YES	GRADING PERMIT APPROVAL
	PAVING PERMIT APPROVAL
COPY PROVIDED	S.A.D. DRAINAGE REPORT
	DRAINAGE REQUIREMENTS
	OTHER(SPECIFY)
	•
DATE SUBMITTED: JANUARY 22, 1999	
	JAN 2 5 1999
BY: JACKIE S. MCDOWELL, P.E.	
	HYDROLOGY SECTION



November 9,1998

Jackie McDowell
McDowell Engineering, Inc.
7820 Beverly Hills Ave. NE
Albuquerque, New Mexico 87122

RE: REVISED DRAINAGE PLAN FOR MECHENBIER LOT 5 (F22-D11A6) REVISION DATED 9/21/98

Dear Ms. McDowell:

Based on the information provided on your October 14, 1998 resubmittal, the above referenced site is approved for Site Development Plan for Building Permit and Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

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

Please be advised that all the roof run-off must be routed to the asphalt from the landscape areas thru a curb notch or other means.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia

Sincerely

Sanna Montoya CE
Associate Engineer



DRAINAGE INFORMATION SHEET 15th

PROJECT TITLE: MECHENBIER LOT 5 ZONE	ATLAS/DRNG. FILE #: F22-D11A6
DRB #: EPC #:	WORK ORDER #:
LEGAL DESCRIPTION: LOT #5, TRAMWAY RID	GE SUBDIVISION
CITY ADDRESS: 4800 TRAMWAY RIDGE	
ENGINEERING FIRM: MCDOWELL ENGINEERING,	INC. CONTACT: JACKIE MCDOWELL
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ADDRESS:	PHONE:
SURVEYOR: PRECISION SURVEYS	CONTACT:
ADDRESS:	PHONE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE :
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
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OTHER	FOUNDATION PERMIT APPROVAL
	X BUILDING PERMIT APPROVAL
PRE-DESIGN MEETING:	CERT. OF OCCUPANCY APPROVAL
YES	GRADING PERMIT APPROVAL
X_NO	PAVING PERMIT APPROVAL
COPY PROVIDED	S.A.D. DRAINAGE REPORT
	DRAINAGE REQUIREMENTS
	OTHER(SPECIFY)
DATE SUBMITTED: SEPTEMBER 22, 1998 BY: JACKIE S. MCDOWELL, P.E.	D ©©©©©©© OCT 1 4 1998 HYDROLOGY SECTION
	MADMOFOR SECTION



July 13,1998

Jackie McDowell
McDowell Engineering, Inc.
7820 Beverly Hills Ave. NE
Albuquerque, New Mexico 87122

RE: REVISED DRAINAGE PLAN FOR MECHENBIER LOT 5 (F22-D11A6) REVISION DATED 6/11/98

Dear Ms. McDowell:

Based on the information provided on your June 12,1998 resubmittal, the above referenced site is approved for Site Development Plan for Building Permit and Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

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

Please be advised that all the roof run-off must be routed to the asphalt from the landscape areas thru a curb notch or other means.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File

Sincerely

Seense Montaga Bernie J. Montoya CE

Associate Engineer



DRAINAGE INFORMATION SHEET

PROJECT TITLE: MECHENBIER LOT 5 ZONE	ATLAS/DRNG. FILE #: F22-D11A6
DRB #: EPC #:	WORK ORDER #:
LEGAL DESCRIPTION: LOT #5, TRAMWAY RIDG	E SUBDIVISION
CITY ADDRESS: 4800 TRAMWAY RIDGE	
ENGINEERING FIRM: MCDOWELL ENGINEERING,	INC. CONTACT: JACKIE MCDOWELL
ADDRESS: 7820 BEVERLY HILLS AVE. NE	. 87122PHONE: 828-2430
OWNER: MECHENBIER CONSTRSUCTION	CONTACT: <u>JOHN MECHENBIER</u>
ADDRESS: 8804 WASHINGTON ST. NE	PHONE: <u>828-1676</u>
ARCHITECT:	CONTACT:
ADDRESS:	PHONE:
SURVEYOR: PRECISION SURVEYS	CONTACT:
ADDRESS:	PHONE:
CONTRACTOR:	CONTACT:
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X_NO	PAVING PERMIT APPROVAL
COPY PROVIDED	S.A.D. DRAINAGE REPORT
	DRAINAGE REQUIREMENTS
	OTHER (SPECIFY)
DATE SUBMITTED: JUNE 12, 1998	D
BY:JACKIE S. MCDOWELL, P.E.	- SECTION

McDowell Engineering, 9nc.

Jackie Sedillo McDowell, P.E. Civil Engineering Consultant

June 11, 1998

Mr. Bernie J. Montoya, CE
Associate Engineer
City of Albuquerque Hydrology Dept.
P.O. Box 1293
Albuquerque, NM 87103

RE: MECHENBIER LOT 5 (F22-D11A6)

Dear Mr. Montoya:

We received your comments for the referenced project dated May 26, 1998 and offer the following response and modifications to the plan in the same numerical order listed.

- 1. We have modified the plan to route the roof area towards the asphalt.
- 2. The top of curb and flowline elevations have been added to the plat at the survey points shot. The curb is a COA standard curb, therefore, the flowline at the top of curb is 8" below the top of curb elevations shown on the plan.
- We have added flowline elevations on the street near the driveways (see response #2 above). We have noted the water blocks provided at the drivepads. The eastern drivepad does not receive any offsite runoff, since it is located at the high point of the street, but a 0.6' water block has been provided. A 1' water block was not necessary and it would have made the entry even steeper than designed.
- 4. Slopes have been added to the plan at the asphalt swales.

Your timely approval of this plan is appreciated.

Sincerely,

MCDOWELL ENGINEERING, INC.

Jackie S. McDowell, P.E.

DECOME IN EDD JUN 1 2 1998

HYDROLOGY SECTION



May 26,1998

Jackie McDowell
McDowell Engineering, Inc.
7820 Beverly hills Ave. NE
Albuquerque, New Mexico 87122

RE: DRAINAGE PLAN FOR MECHENBIER LOT 5 (F22-D11A6) ENGINEER'S STAMP DATED 4/24/98

Dear Ms. McDowell:

Based on the information provided on your April 27,1998 submittal, listed are some concerns that will need to be addressed prior to final approval:

- 1. All the developed run-off from the roof area must be routed towards the asphalt. Your plan drawing does not indicate these.
- 2. Top of curb and flowline elevations must be shown on all the streets.
- 3. Without the flowline elevations, I can not determine if you have allowed for the one foot water block at the drivepads.
- 4. Please identify the slopes on the proposed asphalt swales.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia

Sincerely

Bernie J. Montoya CE
Associate Engineer

Good for You, Albuquerque!

DRAINAGE INFORMATION SHEET

DRAINAGE INFOR PROJECT TITLE: MECHENBIER LOT 5 ZONE DRB #: EPC #:	
PROJECT TITLE: MECHENBIER LOT 5 ZONE	
	ATLAS/DRNG. FILE #: 4/21. DIV
DRB #:	WORK ORDER #:
LEGAL DESCRIPTION: LOT #5, TRAMWAY RID	
CITY ADDRESS: 4800 TRAMWAY RIDGE	
ENGINEERING FIRM: MCDOWELL ENGINEERING,	INC. CONTACT: JACKIE MCDOWELL
ADDRESS: 7820 BEVERLY HILLS AVE. N	
OWNER: MECHENBIER CONSTRSUCTION	
	PHONE: 828-1676
ARCHITECT:	CONTACT:
ADDRESS:	
SURVEYOR: PRECISION SURVEYS	CONTACT:
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ATTACHMENT NO. 1

SUPPLEMENTAL CALCULATIONS TO

MECHENBIER TRAMWAY RIDGE SUBDIVISION LOT #5

GRADING & DRAINAGE PLAN

I, Jackie S. McDowell, Registered Professional Engineer, No. 10903, hereby certify that I have prepared the attached

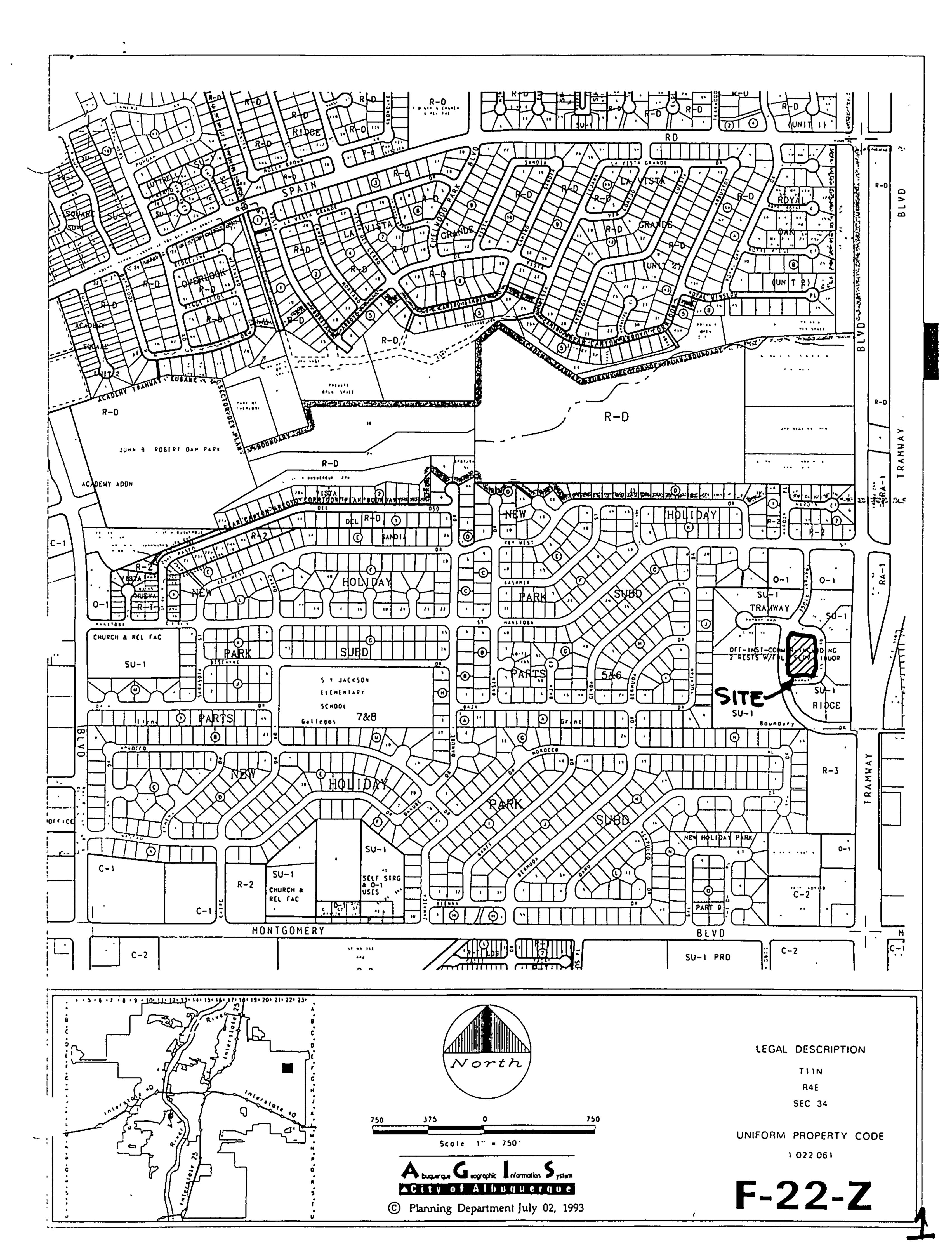
calculations.

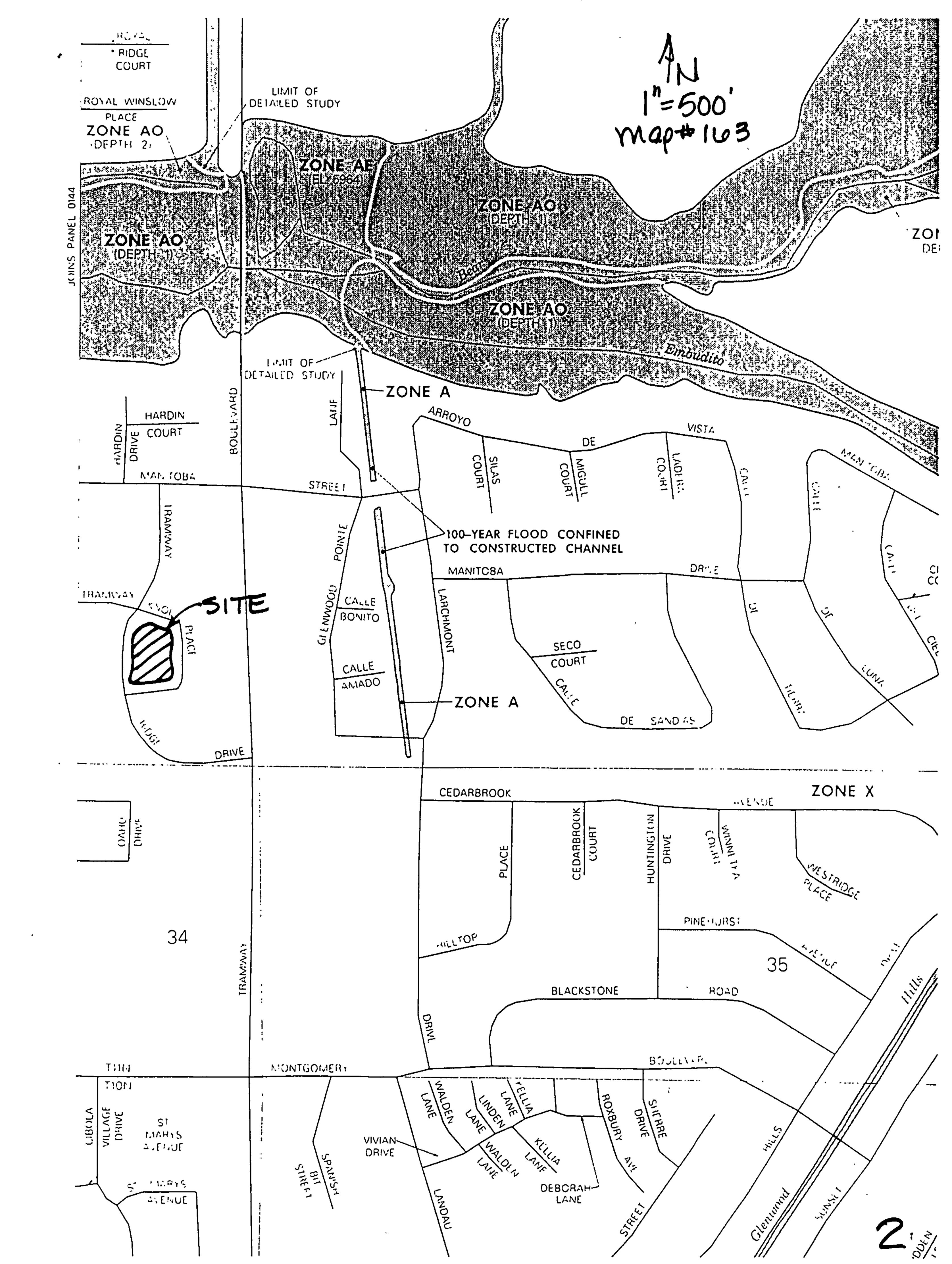
Jackie S. McDowell, P.E.

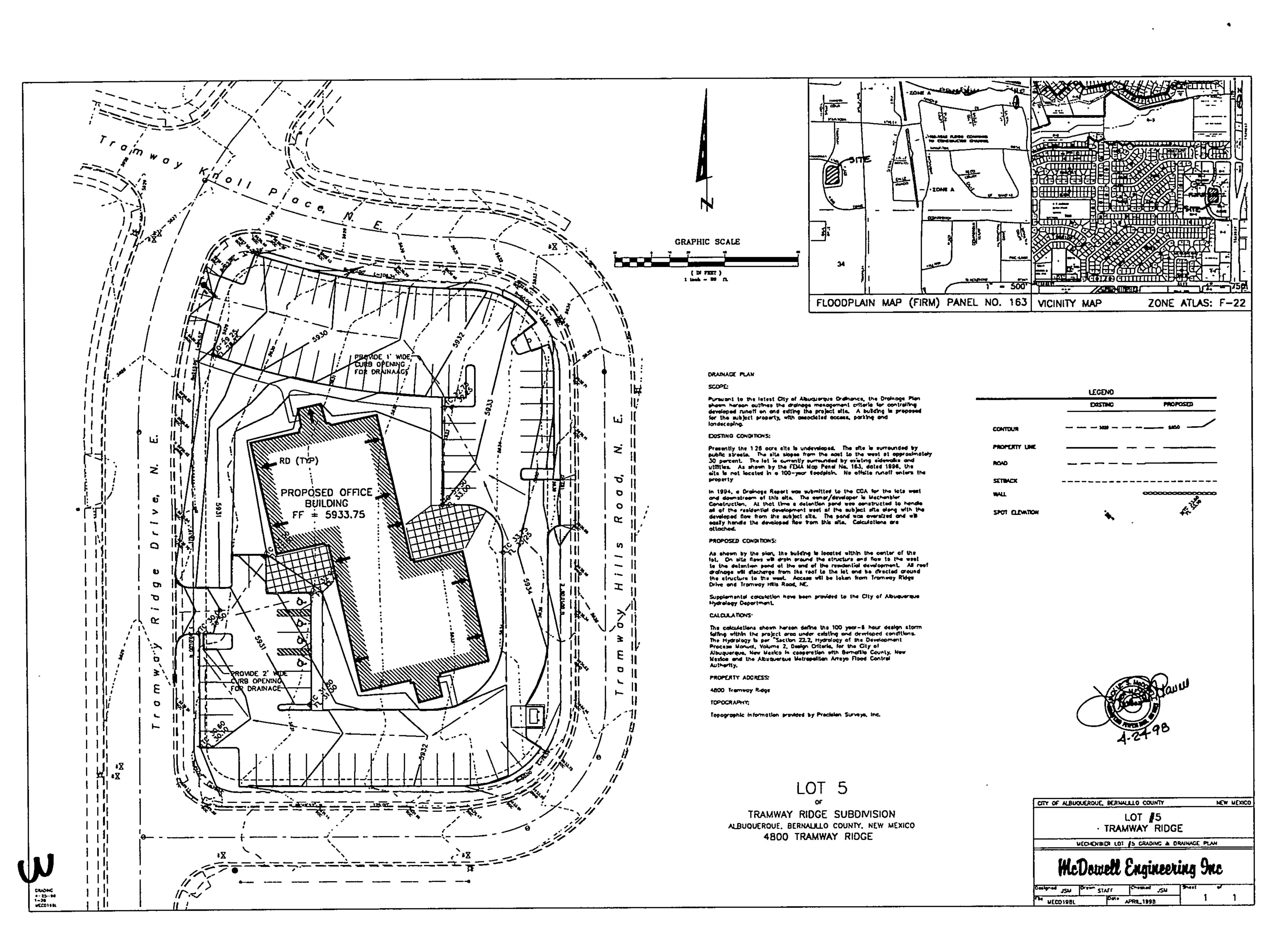
No. 10903

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Onsite Basin Calculations	9







F-ZZ/DIIA3 - APPROVED DEANLAGE REPORT

Storm water runoff from the site within Basin II (existing Lots 10, 11, & 13) currently sheet flows across the site to Tramway Knoll Place, where the runoff is intercepted by an existing concrete lined drainage channel. Storm water runoff from the site within Basin I (existing Lots 8 & 9) currently sheet flows to the southwest where it is intercepted by an existing 10' private drainage easement located within the existing church property to the south. Storm water runoff from both Basins I & II flows through existing public concrete drainage channels until the flows are released onto Yucutan Drive. The downstream analysis from the site has already been evaluated by the Espey-Huston Drainage Report referenced and dated July, 1986.

The only other offsite flows entering the site, and flowing through the site, are the flows from the remainder of Basin II.

III. Proposed Condition

Proposed development of the site includes the removal of the end of the cul-de-sac of Tramway Knoll Place, the construction of two new streets (Skyline View Court and Skyline Ridge Court), and 36 residential lots with associated utilities and detention pond. Most of the flows from the site, Basin "B", will be routed through the new detention pond. A small portion of the site, Basin "A", will continue to drain to the southwest into the existing 10' private drainage easement at the church and another small portion of the site, Basin "C", will continue to drain into the existing public drainage channel.

The owner of this development is anticipating the future residential development of Lot 5 of Tramway Ridge Subdivision, therefore, the detention pond has not only been designed to control storm water runoff from the proposed development of

Page 2 of 4

F-22/DIIA3-APPROVED DRAINAGE REPORT

Lots 8-11 & 13, but also the predicted storm water runoff (residential development) from Lot 5. Storm water runoff will sheet flow through the proposed streets and be collected at the northwest corner of Skyline Ridge Court where the runoff will enter the detention pond. The detention pond has been designed to City standards with a concrete bottom, concrete walls, a spillway for the release of offsite runoff, and a fence around the pond, since the depth exceeds

Specific drainage outfalls for this development are as follows:

Basin "A" free discharge to the existing 10' private drainage easement.

Basin "B" and Lot 5 (Future) will be routed to the detention pond.

Basin "C" will free discharge to the existing public drainage channel.

See Appendix A - Calculations

The detention pond will be drained in less than 6 hours in accordance with the City of Albuquerque Drainage Ordinance. The emergency spillway is the top of the northwest wall of the pond.

IV. Flood Zone

The project site is not located in a 100 year flood zone. See Exhibit D - AMDS Flood Map.

Project: SKYLINE VIEW SUB'D - PHASE III - LOT 5 Project No.: MEC0393L

03-Jun-94

Calculations: Total Basin

Calculations are based on "Section 22.2 Hydrology of the Development Process Manual, Volume 2, Design Criteria for the

City of Albuquerque, New Mexico, January 1993 - basins < 40 acres*.

Precipitation Zone = 4

Depth at 100-year, 6-hour storm: (Table A-2)

P =

2.90 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

7*SQR((N*N) + (5*N))

where N = units/acre

N = -----, ok < 6

N =

5.64

Therefore Percent Treatment D =

54.23%

(includes local streets)

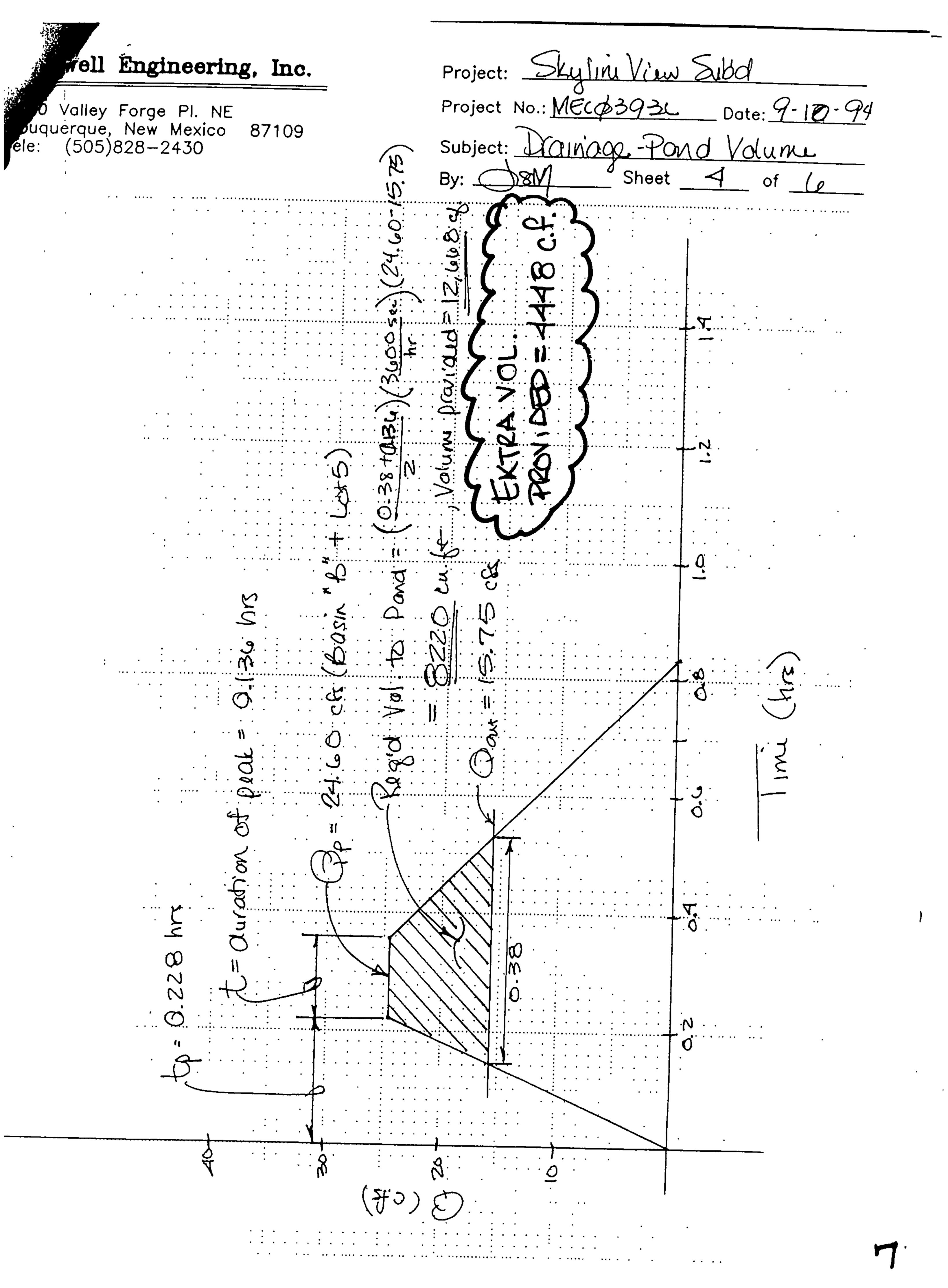
Areas: (acres)		
	Existing	Proposed
Treatment A	1.92	0.00
Treatment B	0.00	0.88
Treatment C	0.00	0.00
Treatment D	0.00	1.04
Total (acres) =	1.92	1.92

45.7%

54.3 1

Volume		100 year	100 year	10 year	10 year	2 year	2 year
		Existing	Proposed	Existing	Proposed	Existing	Proposed
Volume (a	cre-feet) =	0.13	0.31	0.04	0.18	0.00	0.10
Volume (c	ubic feet) =	5,576	13,416	1,951	7,850	139	4,164

Total Q(p), cfs:					•	
	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	4.22	0.00	1.67	0.00	0.10	0.00
Treatment B	0.00	2.57	0.00	1.28	0.00	0.33
Treatment C	0.00	0.00	0.00	0.00	0.00	0.00
Treatment D	0.00	5.46	0.00	3.71	0.00	2.26
Total Q (cfs) =	4.22	8.03	1.67	4.99	0.10	· 2.59



Project: MECHENBIER I

LOT#5

22-Apr-98

WISTREETS

Project No.:

22-Apr-98

Calculations: Total Basin

Calculations are based on "Section 22.2 Hydrology of the

Development Process Manual, Volume 2, Design Criteria for the

City of Albuquerque, New Mexico, January 1993 - basins < 40 acres*.

Precipitation Zone = 4

Depth at 100-year, 6-hour storm: (Table A-2)

P =

2.90 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

7*SQR((N*N) + (5*N))

where N = units/acre

N = ----- = -----, ok < 6

N =

0.00

Therefore Percent Treatment D =

0.00%

(includes local streets)

Areas: (acres)			
		Existing	Proposed
Treatment A		1.92	0.00
Treatment B		0.00	0.42
Treatment C		0.00	0.00
Treatment D		0.00	1.50
T	otal (acres) =	1.92	1.92

Volume	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing	Proposed	Existing	Proposed
Volume (acre-feet) =	0.13	0.37	0.04	0.23	0.00	0.13
Volume (cubic feet) =	5,576	16,021	1,951	9,903	139	5,667

K. ADD'L VOL. FROM DEV.	= 16021	- 13416	= 20	05 cu.	J	<u>, , , , , , , , , , , , , , , , , , , </u>
Total Q(p), cfs:						
	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	4.22	0.00	1.67	0.00	0.10	0.00
Treatment B	0.00	1.23	0.00	0.61	0.00	0.16
Treatment C	0.00	0.00	0.00	0.00	0.00	0.00
Treatment D	0.00	7.88	0.00	5.36	0.00	3.26
Total Q (cfs) =	= 4.22	9.10	1.67	5.96	0.10	3.41

Extra Pond Volume Constructed W/First Phase of Development = 4448 c.f. V > 2606 c.f.

Project: MENTENBIER Project No.:

OT#5-0N-SITE CALCS

21-Apr-98

Calculations: Total Basin

Calculations are based on "Section 22.2 Hydrology of the

Development Process Manual, Volume 2, Design Criteria for the

City of Albuquerque, New Mexico, January 1993 - basins < 40 acres".

Precipitation Zone = 4

Depth at 100-year, 6-hour storm: (Table A-2)

P =

2.90 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

7*SQR((N*N) + (5*N))

where N = units/acre

N = ----- = ----, ok < 6

N =

0.00

Therefore Percent Treatment D =

0.00%

(includes local streets)

Areas: (acres)		
	Existing	Proposed
Treatment A	1.28	0.00
Treatment B	0.00	0.28
Treatment C	0.00	0.00
Treatment D	0.00	1.00
Total (acres) =	1.28	1.28

Volume	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing	Proposed	Existing	Proposed
Volume (acre-feet) =	0.09	0.25	0.03	0.15	0.00	0.09
Volume (cubic feet) =	3,717	10,681	1,301	6,602	93	3,778

Total Q(p), cfs:					· · · · · · · · · · · · · · · · · · ·	
	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	2.82	0.00	1.11	0.00	0.06	0.00
Treatment B	0.00	0.82	0.00	0.41	0.00	0.11
Treatment C	0.00	0.00	0.00	0.00	0.00	0.00
Treatment D	0.00	5.25	0.00	3.57	0.00	2.17
Total Q (cfs) =	2.82	6.07	1.11	3.98	0.06	2.28