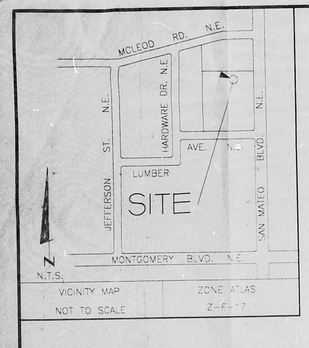
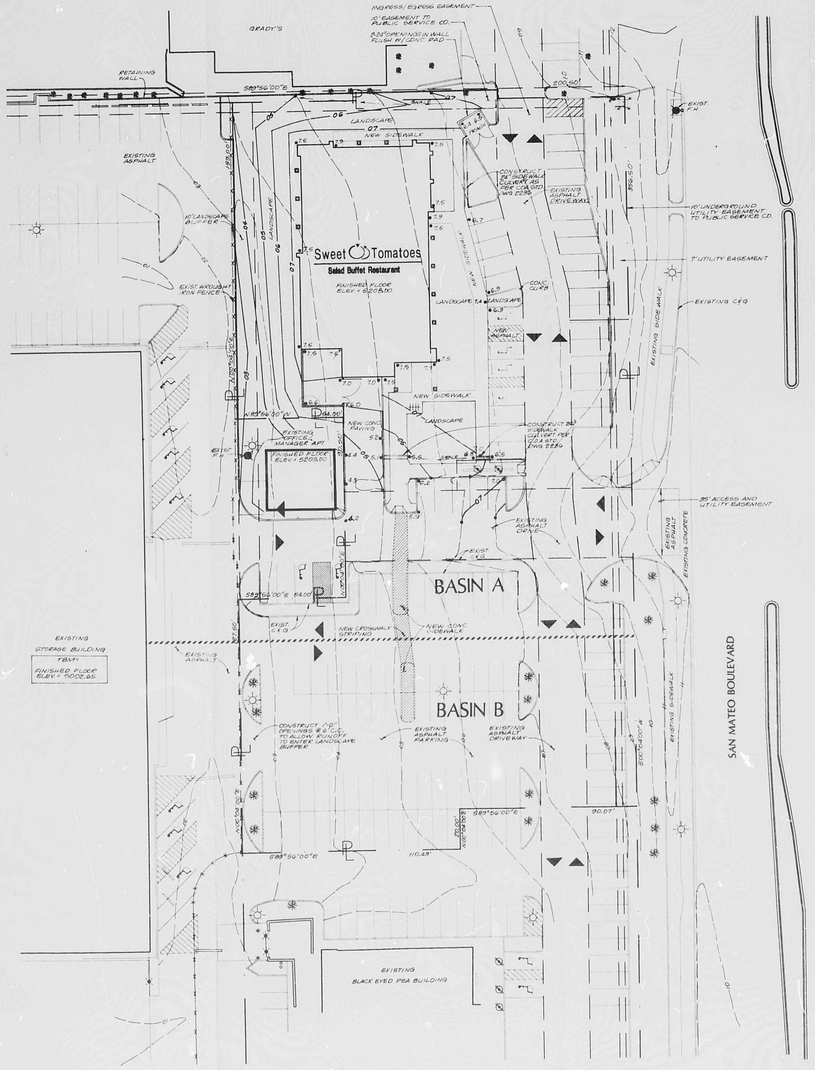
PUBLIC WORKS/HYDROLOGY

1 OF 2

F17/D2H





DRAINAGE PLAN

The following items concerning the Sweet Tomatoes Grading and Drainage Plan are contained hereon:

1. Vicinity Map
2. Grading Plan
3. Calculations

The proposed improvements, as shown by the Vicinity Map, are located at the northwest corner of San Mateo Boulevard NE and Lumber Avenue NE. The site is fully developed. It was the location of an Allwood's store which has been converted into a self storage facility. The original site was subdivided into three lots. The site is bordered on the east by San Mateo, on the south by a Dyed Pea restaurant, on the west by the Devon Self Storage and on the north by a Grandy's restaurant. The site does not lie within a designated flood hazard zone. A Conceptual Drainage Plan (F-17/D2) was approved on May 14, 1995.

The site slopes from east to west. The site is lower than San Mateo to the east, approximately parallel with the land to the south, higher than the land to the west and lower than the land to the north. Retaining walls prevent runoff from the north from entering the site. Therefore, offsite flows are minimal.

The Grading Plan shows 1) the existing and proposed grades, indicated by spot elevations and contours at 1'-0" intervals, 2) continuity between existing and proposed elevations, 3) the limit and character of existing improvements and 4) the limit and character of proposed improvements. As shown by this plan, the proposed improvements consist of a building with associated landscaping and parking. Existing asphalt will be utilized as much as is feasible. Runoff will be directed to the west onto Tract B-1 in accordance with the approved conceptual drainage plan.

The Calculations, which appear below, analyze the existing and proposed conditions for the 100-year, 6-hour rainfall event. The analysis is in accordance with the City of Albuquerque Development Process Manual, Volume II. As shown by the calculations, the rate of runoff and the volume of runoff decrease due to the reduction of impervious areas by the addition of landscaping.

CALCULATIONS

Precipitation Zone = 2
Area of the Site = 1.58 acres

Existing Conditions

Basin A
Land Treatment D = 100%
E = 2.12*1.00 = 2.12 inches
V = 2.12*1.08/12 = 0.19 acre feet
Q = 4.70*1.08 = 5.08 cfs

Basin B
Land Treatment D = 100%
E = 2.12*1.00 = 2.12 inches
V = 2.12*0.50/12 = 0.09 acre feet
Q = 4.70*0.50 = 2.35 cfs

Developed Conditions

Basin A
Land Treatment B = 22% D = 78%
E = 0.78*0.22 + 2.12*0.78 = 1.83 inches
V = 1.83*1.08/12 = 0.16 acre feet
Q = (2.28*0.22 + 4.70*0.78)*1.08 = 4.51 cfs

Basin B
Land Treatment B = 8% D = 92%
E = 0.78*0.08 + 2.12*0.92 = 2.01 inches
V = 2.01*0.50/12 = 0.08 acre feet
Q = (2.28*0.08 + 4.70*0.92)*0.50 = 2.25 cfs

LEGAL DESCRIPTION

TRACT B-2, ALLWOOD'S SUBDIVISION

ADDRESS

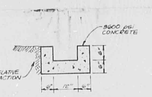
4705 SAN MATEO BOULEVARD NE

BENCHMARK

CITY OF ALBUQUERQUE BRASS CAP 9-F18 LOCATED IN THE MEDIAN OF SAN MATEO NORTH OF MONTGOMERY. ELEVATION = 5209.56.

LEGEND

- 7.6 EXISTING SPOT ELEVATION
- •7.6 PROPOSED SPOT ELEVATION
- EXISTING CONTOUR
- 5209 PROPOSED CONTOUR
- SWALE



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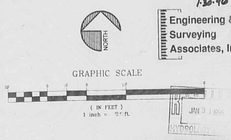

Thomas C. Howard 10-18-95 1-30-96

Engineering & Surveying Associates, Inc.

JAN 3 1996

TARLOS & ASSOCIATES
ARCHITECTS - ENGINEERS
A.I.A.
17802 KITTRELL FAX (714) 250-1976
IRVINE, CA. 92714 (714) 250-4117

Sweet Tomatoes
Salad Buffet Restaurant

GRADING AND DRAINAGE PLAN
N.W.C. OF SAN MATEO BLVD. N.E. & LUMBER AVE. N.E.
ALBUQUERQUE, NEW MEXICO

REVISION	
DATE	JOB NO. 548.000
SCALE 1=20	DRAWN BY
DRAWING NO.	

STALBCI

R# 55 DATE 3-17-96 OP

CITY OF ALBUQUERQUE

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DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 6/12/96

CITY OF ALBUQUERQUE
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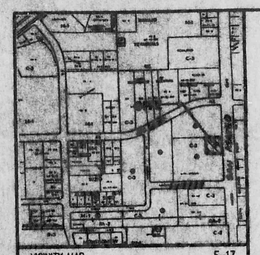
PLANS/PLATS ON FILE

FILE DESC: F17/D2H

PLANS/PLATS 4

D C B A CITY OF ALBUQUERQUE C D E



VICINITY MAP F-17

The following items concerning the Sweet Tomatoes Grading and Drainage Plan are contained hereon:

1. Vicinity Map
2. Grading Plan
3. Calculations

The proposed improvements, as shown by the Vicinity Map, are located at the northeast corner of San Mateo Boulevard NE and Lumber Avenue NE. The site is fully developed. It was the location of an Almond's store which has been converted into a self storage facility. The original site was subdivided into three lots. The site is bordered on the east by San Mateo, on the south by a Black Eyed Pea restaurant, on the west by the Devon Self Storage and on the north by a Grandy's restaurant. The site does not lie within a designated flood hazard zone. A Conceptual Drainage Plan (F-17/D2) was approved on May 16, 1995.

The site slopes from east to west. The site is lower than San Mateo to the east, approximately parallel with the land to the south, higher than the land to the west and lower than the land to the north. Retaining walls prevent runoff from the north from entering the site. Therefore, offsite flows are minimal.

The Grading Plan shows 1) the existing and proposed grades, indicated by spot elevations and contours at 1'-0" intervals, 2) continuity between existing and proposed elevations, 3) the limit and character of existing improvements and 4) the limit and character of proposed improvements. As shown by this plan, the proposed improvements consist of a building with associated landscaping and parking. Existing asphalt will be utilized as much as is feasible. Runoff will be directed to the west onto Tract B-1 in accordance with the approved conceptual drainage plan.

The Calculations, which appear below, analyze the existing and proposed conditions for the 10Yr-year, 6-hour rainfall event. The analysis is in accordance with the City of Albuquerque Development Process Manual, Volume 2. As shown by the Calculations, the rate of runoff and the volume of runoff decrease due to the reduction of impervious areas by the addition of landscaping.

CALCULATIONS

Precipitation Zone = 2
Area of the Site = 1.58 acres

Existing Conditions

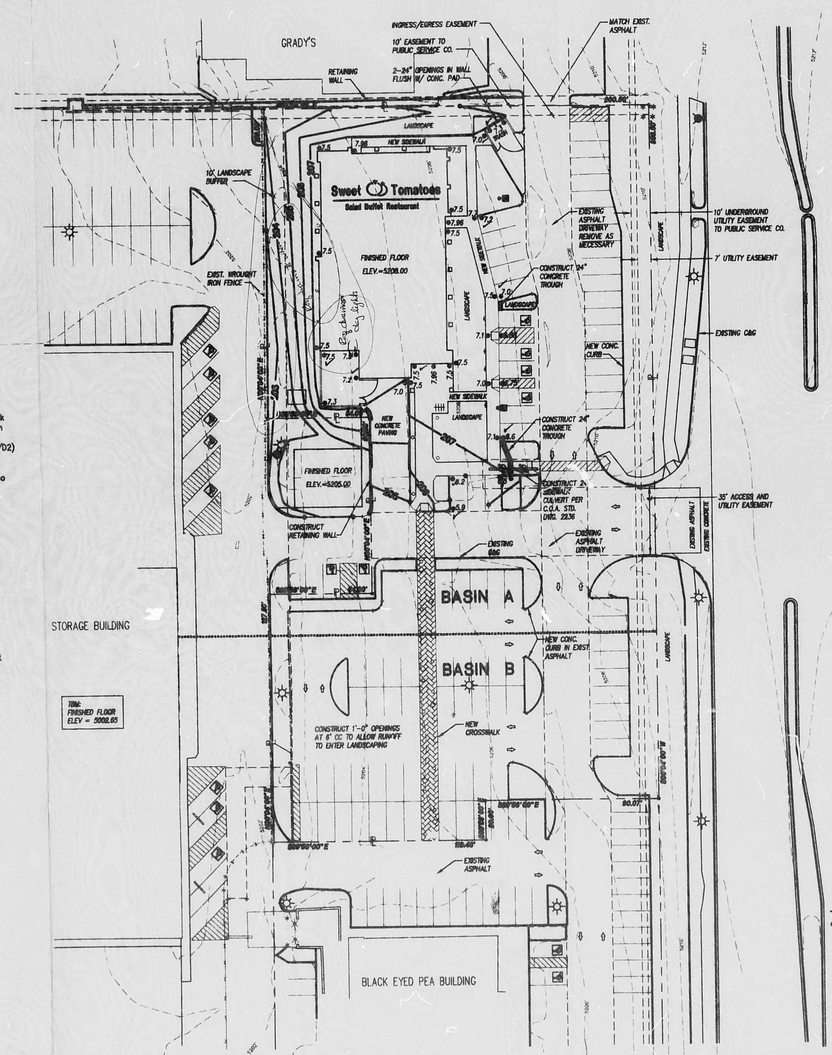
Basin A
Land Treatment D = 100%
E = 2.12×1.00 = 2.12 inches/Q = 4.70×1.08 = 5.08 cfs

Basin B
Land Treatment D = 100%
E = 2.12×1.00 = 2.12 inches
V = 2.12×0.50/12 = 0.09 acre feet
Q = 4.70×0.50 = 2.35 cfs

Developed Conditions

Basin A
Land Treatment B = 22% D = 78%
E = 0.78×0.22 + 2.12×0.78 = 1.83 inches
V = 1.83×1.58/12 = 0.16 acre feet
Q = (2.28×0.22 + 4.70×0.78)×1.08 = 4.51 cfs

Basin B
Land Treatment B = 8% D = 92%
E = 0.78×0.08 + 2.12×0.92 = 2.01 inches
V = 2.01×0.50/12 = 0.08 acre feet
Q = (2.28×0.08 + 4.70×0.92)×0.50 = 2.25 cfs



LEGAL DESCRIPTION

TRACT B-2, ALLWOOD'S SUBDIVISION

ADDRESS

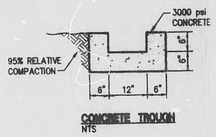
4705 SAN MATEO BOULEVARD NE

BENCHMARK

CITY OF ALBUQUERQUE BRASS CAP 9-F18 LOCATED IN THE MEDIAN OF SAN MATEO NORTH OF MONTGOMERY. ELEVATION = 5209.56.

LEGEND

X 12.5	EXISTING SPOT ELEVATION
●7.5	PROPOSED SPOT ELEVATION
5112'	EXISTING CONTOUR
205	PROPOSED CONTOUR
	SWALE
✓	VERIFIED ELEVATION



CONCRETE TROUGH
NTS

NORTH

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO THOMAS T. MANN, JR. 3792 NEW MEXICO ENGINEERING AND LAND SURVEYING

9/6/96

Engineering & Surveying Associates, Inc.

TARLOS & ASSOCIATES
ARCHITECTS - ENGINEERS
A.I.A. - A.I.P.A.
17502 MITCHELL
IRVINE, CA. 92714
FAX (714) 250-1876
(714) 252-1717

Sweet Tomatoes
Salad Buffet Restaurant

GRADING AND DRAINAGE PLAN
S.W.C. OF SAN MATEO BLVD. NE & LUMBER AVE. NE
ALBUQUERQUE, NEW MEXICO

REVISION	
DATE 04-16-96	JOB NO. 548.070
SCALE 1"=20'	DRAWN BY LAM
REVISION	
DRAWING NO. C-3	
SWEETTOM.DWG	

RECEIVED SEP 10 1996 HYDROLOGY DIVISION

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R# 25 DATE 3-19-02 OP EGP

CITY OF ALBUQUERQUE

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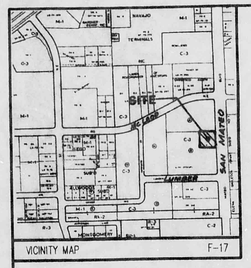
The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (NSIA/C-1977)

DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/03/02

D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D



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2. Grading Plan
3. Calculations

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CALCULATIONS

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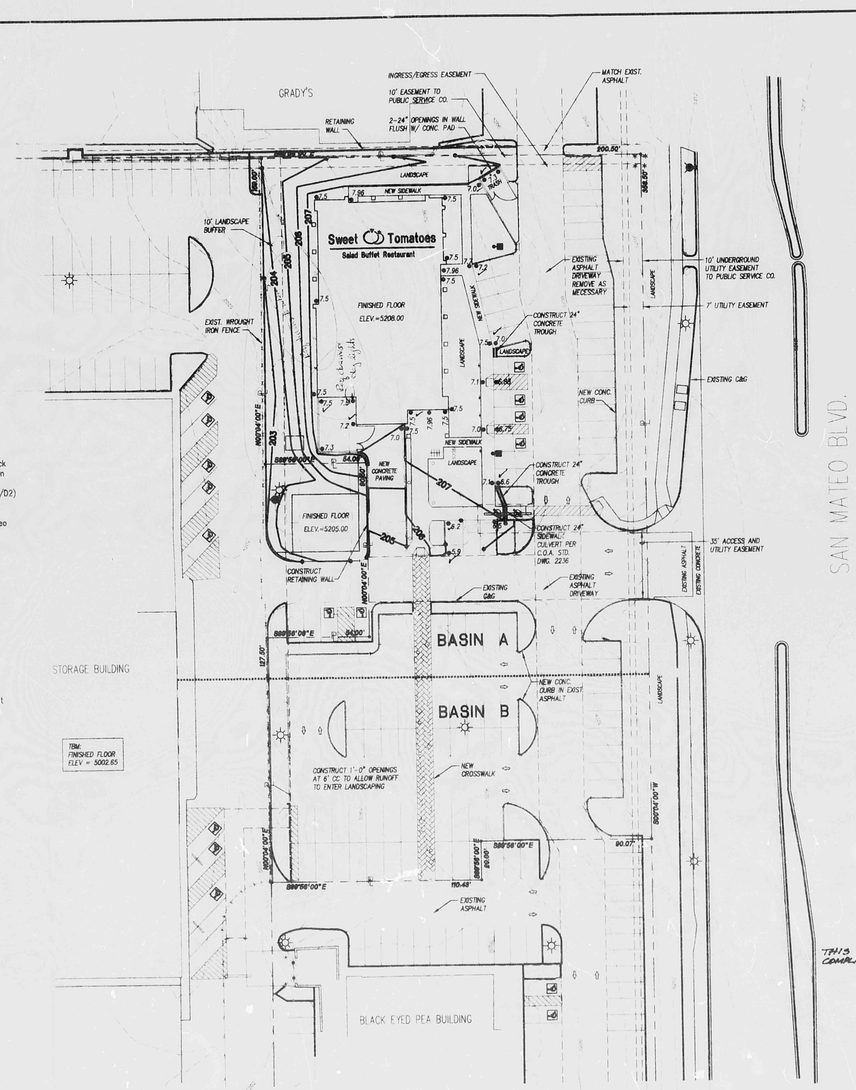
Q = (2.2E*0.08 + 4.70*0.92)*0.50 = 2.25 cfs



LEGAL DESCRIPTION

TRACT B-2, ALLWOOD'S SUBDIVISION

ADDRESS

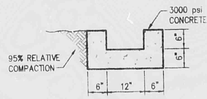
4705 SAN MATEO BOULEVARD NE

BENCHMARK

CITY OF ALBUQUERQUE BRASS CAP 9-F18 LOCATED IN THE MEDIAN OF SAN MATEO NORTH OF MONTGOMERY. ELEVATION = 5209.56.

LEGEND

7.5	EXISTING SPOT ELEVATION
●7.5	PROPOSED SPOT ELEVATION
7.5	EXISTING CONTOUR
—205—	PROPOSED CONTOUR
—·—·—	SWALE
✓	VERIFIED ELEVATION



CONCRETE TROUGH
NTS

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO THOMAS T. MANN, JR. 3792 AND LAND SURVEYOR
9/6/96

Engineering & Surveying Associates, Inc.

TARLOS & ASSOCIATES
ARCHITECTS - ENGINEERS
A.I.P.A.
17802 MITCHELL TEL (714) 250-1870
IRVINE, CA. 92714 (714) 250-4117

Sweet Tomatoes
Salad Buffet Restaurant

GRADING AND DRAINAGE PLAN
N.W.C. OF SAN MATEO BLVD. NE & LUMBER AVE. NE
ALBUQUERQUE, NEW MEXICO

REVISION	DATE	JOB NO.
	04-16-96	548.070
	SCALE 1"=20'	DRAWN BY LAH

REVISION

DRAWING NO.
C-3
SHEET OF SHEETS

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R# 35 DATE 3-19-02 OP EGP

CITY OF ALBUQUERQUE

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DIRECTOR

NOTARY PUBLIC

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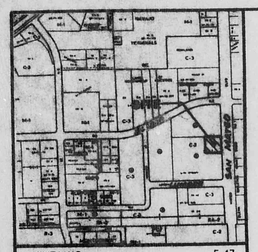
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/02/02

RECEIVED
SEP 10 1996
HYDROLOGY DIVISION

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE C D



VICINITY MAP F-17

The following items concerning the Sweet Tomatoes Grading and Drainage Plan are contained hereon:

1. Vicinity Map
2. Grading Plan
3. Calculations

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CALCULATIONS

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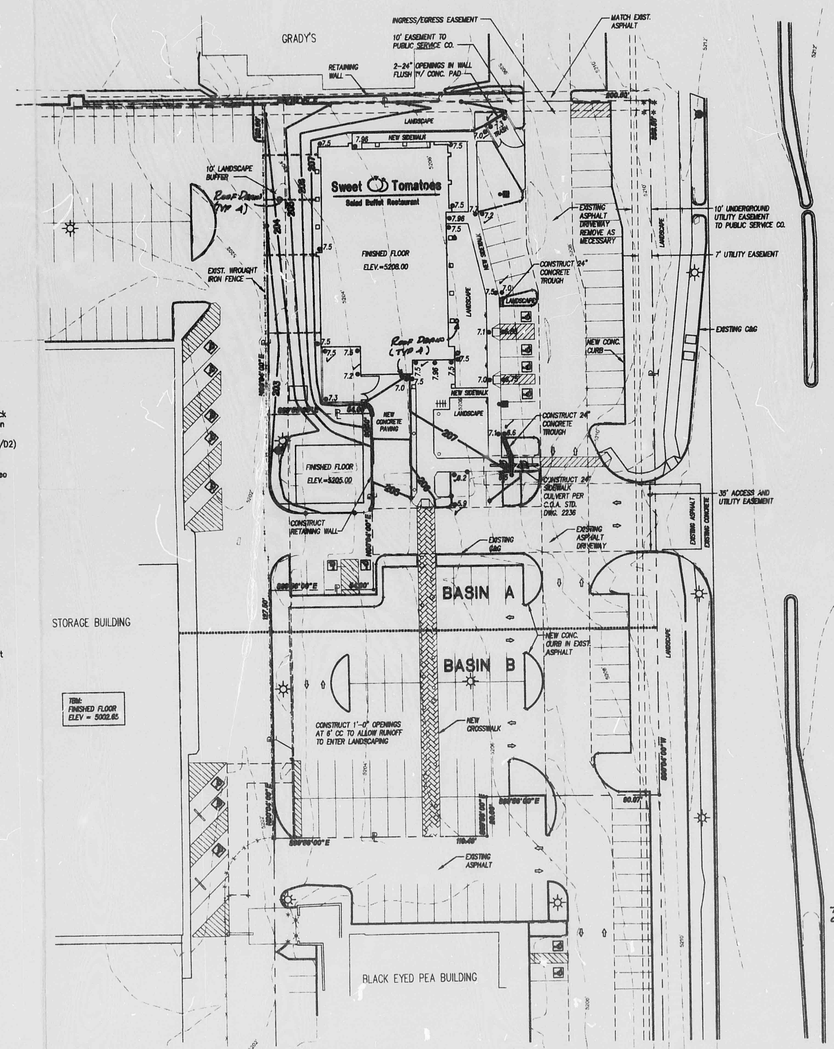

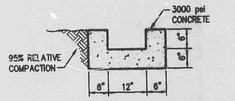

CONCRETE TROUGH
NTS

NORTH

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN

REGISTERED PROFESSIONAL ENGINEER STATE OF THOMAS T. MANN, JR. 3792 NEW MEXICO AND LAND SURVEYOR

9/6/96 10/10/96

Engineering & Surveying Associates, inc.

LEGAL DESCRIPTION

TRACT B-2, ALLWOOD'S SUBDIVISION

ADDRESS

4705 SAN MATEO BOULEVARD NE

BENCHMARK

CITY OF ALBUQUERQUE BRASS CAP 9-F18 LOCATED IN THE MEDIAN OF SAN MATEO NORTH OF MONTGOMERY. ELEVATION = 5209.56.

LEGEND

X 12.5	EXISTING SPOT ELEVATION
⊕7.5	PROPOSED SPOT ELEVATION
5212	EXISTING CONTOUR
208	PROPOSED CONTOUR
	SWALE
✓	VERIFIED ELEVATION

TARLOS & ASSOCIATES
ARCHITECTS - ENGINEERS
2.11.AL
1780 SOUTH BELL
IRVINE, CA. 92714
FAX (714) 250-1979
(714) 250-4117

Sweet Tomatoes
Salad Buffet Restaurant

GRADING AND DRAINAGE PLAN
N.E.C. OF SAN MATEO BLVD. NE & LUMBER AVE. NE
ALBUQUERQUE, NEW MEXICO

DATE 06-16-95	JOB NO. 942.070
SCALE 1"=20'	DRAWN BY LAH
REVISION	
DRAWING NO. C-3	
SHEET TOM DWG.	

RE-DESIGN

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

R# 25 DATE 3-19-02 OP EGR

CITY OF ALBUQUERQUE

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The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

Thomas J. Mann 11/5/02
DIRECTOR

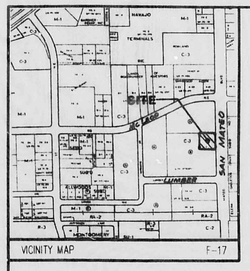
Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 07/01/05

D 24 C 20 B 16 A 12
CITY OF ALBUQUERQUE
C D

PUBLIC WORKS/HYDROLOGY 2 OF 2

F17/D2H



VICINITY MAP F-17

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The site slopes from east to west. The site is lower than San Mateo to the east, approximately parallel with the land to the south, higher than the land to the west and lower than the land to the north. Retaining walls prevent runoff from the north from entering the site. Therefore, offsite flows are minimal.

The Grading Plan shows 1) the existing and proposed grades, indicated by spot elevations and contours at 1'-0" intervals, 2) continuity between existing and proposed elevations, 3) the limit and character of existing improvements and 4) the limit and character of proposed improvements. As shown by this plan, the proposed improvements consist of a building with associated landscaping and parking. Existing asphalt will be utilized as much as is feasible. Runoff will be directed to the west onto Tract B-1 in accordance with the approved conceptual drainage plan.

The Calculations, which appear below, analyze the existing and proposed conditions for the 100-year, 6-hour rainfall event. The analysis is in accordance with the City of Albuquerque Development Process Manual, Volume II. As shown by the Calculations, the rate of runoff and the volume of runoff decrease due to the reduction of impervious areas by the addition of landscaping.

CALCULATIONS

Precipitation Zone = 2
Area of the Site = 1.58 acres

Existing Conditions

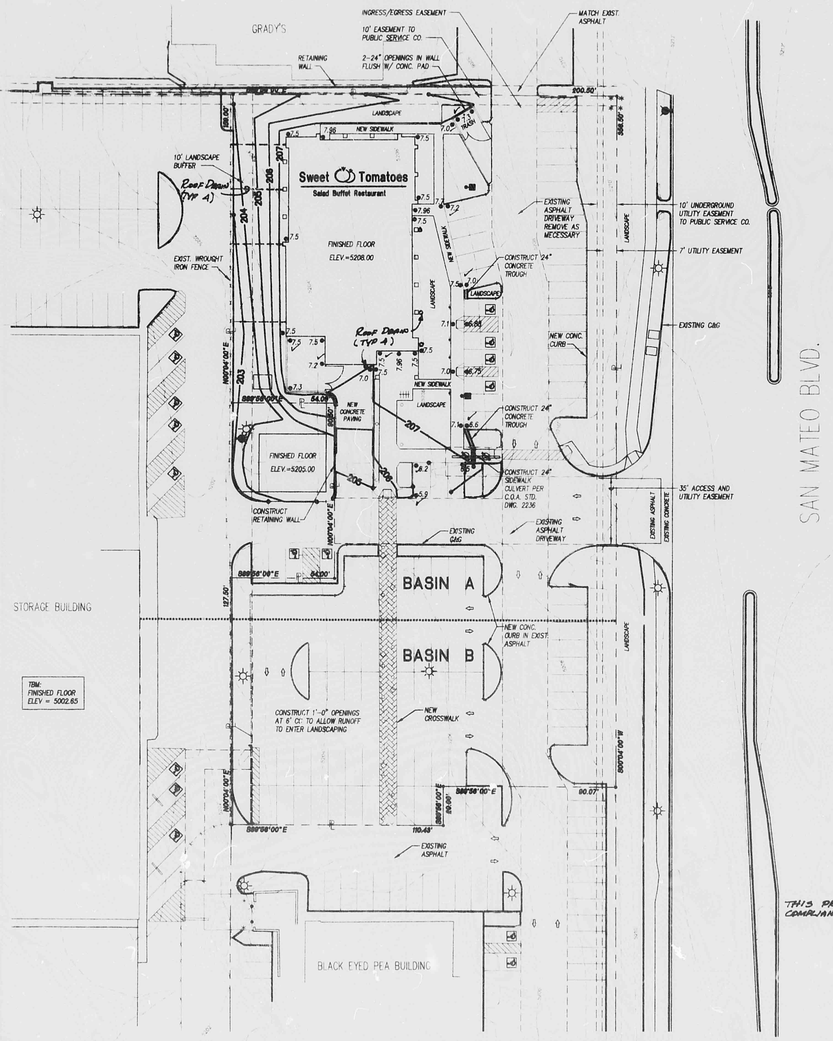
Basin A
Land Treatment D = 100%
E = 2.12*1.00 = 2.12 inches; V = 4.70*1.08 = 5.08 cfs

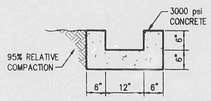
Basin B
Land Treatment D = 100%
E = 2.12*1.00 = 2.12 inches
V = 2.12*0.50/12 = 0.09 acre feet
Q = 4.70*0.50 = 2.35 cfs

Developed Conditions

Basin A
Land Treatment B = 22% D = 78%
E = 0.78*0.22 + 2.12*0.78 = 1.83 inches
V = 1.83*1.08/12 = 0.16 acre feet
Q = (2.28*0.22 + 4.70*0.78)*1.08 = 4.51 cfs

Basin B
Land Treatment B = 8% D = 92%
E = 0.78*0.08 + 2.12*0.92 = 2.01 inches
V = 2.01*0.50/12 = 0.08 acre feet
Q = (2.28*0.08 + 4.70*0.92)*0.50 = 2.25 cfs





CONCRETE TROUGH
NTS

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO THOMAS T. MANN, JR. 3792 AND LAND SURVEYOR
9/6/96 10/6/96

Engineering & Surveying Associates, Inc.

LEGAL DESCRIPTION

TRACT B-2, ALLWOOD'S SUBDIVISION

ADDRESS

4705 SAN MATEO BOULEVARD NE

BENCHMARK

CITY OF ALBUQUERQUE BRASS CAP 9-F18 LOCATED IN THE MEDIAN OF SAN MATEO NORTH OF MONTGOMERY. ELEVATION = 5209.56.

LEGEND

7.5	EXISTING SPOT ELEVATION
●7.5	PROPOSED SPOT ELEVATION
5212	EXISTING CONTOUR
208	PROPOSED CONTOUR
	SWALE
✓	VERIFIED ELEVATION

TARLOS & ASSOCIATES
ARCHITECTS - ENGINEERS
A.I.A. A.I.P.I.A.
1700 MITCHELL N.E. FAX (714) 250-0176
ENID, OK 73701 (714) 250-1177

Sweet Tomatoes
Salad Buffet Restaurant

GRADING AND DRAINAGE PLAN
N.W.C. OF SAN MATEO BLVD. NE & LUMBER AVE. NE
ALBUQUERQUE, NEW MEXICO

DATE 04-16-96	JOB NO. 548.070
SCALE 1"=20'	DRAWN BY LAR
REVISION	
DRAWING NO. C-3	

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R# 25 DATE 3-19-02 OP EBP

CITY OF ALBUQUERQUE

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DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 07/02/02

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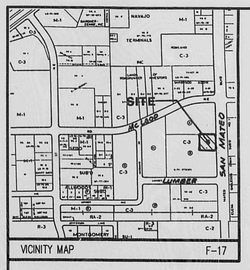

VICINITY MAP F-17

The following items concerning the Sweet Tomatoes Grading and Drainage Plan are contained hereon:

1. Vicinity Map
2. Grading Plan
3. Calculations

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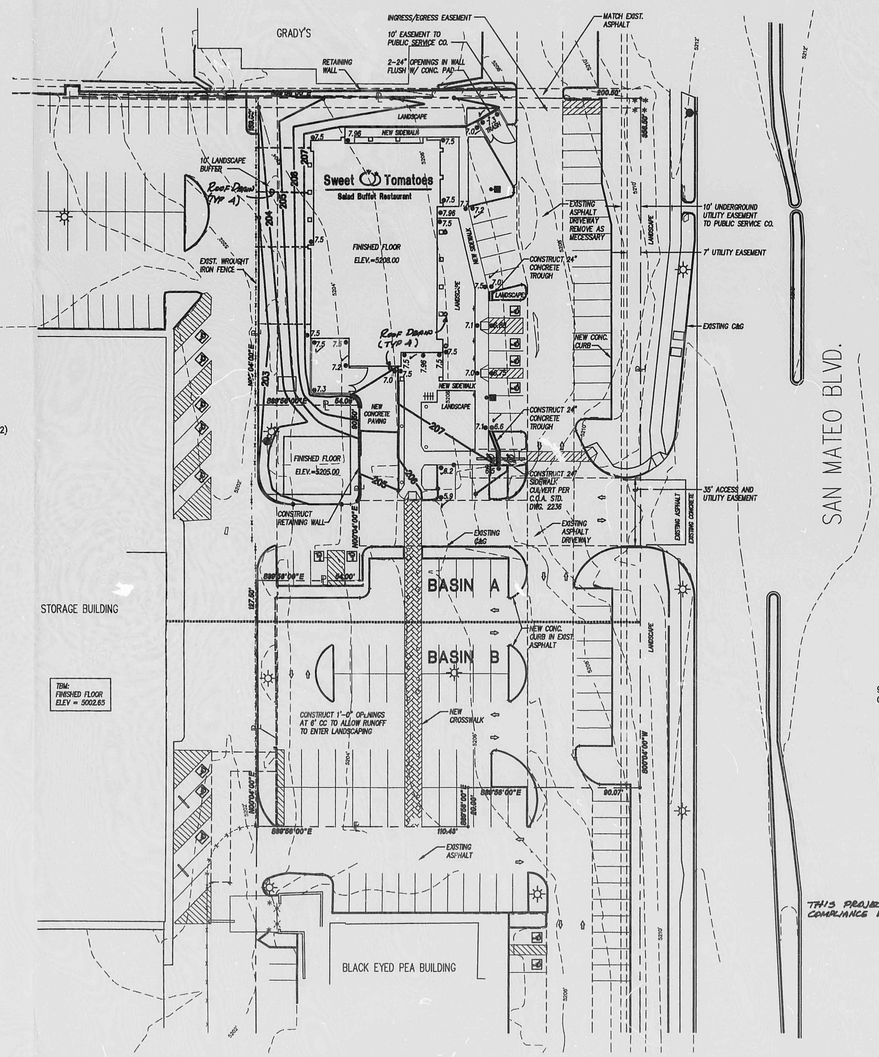

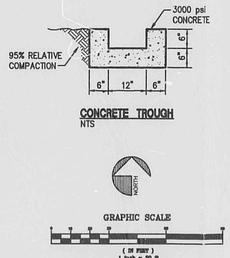

THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO THOMAS T. MANN, JR. 3792 AND LAND SURVEYOR

1.30.96
9/6/96 10/1/96

Engineering & Surveying Associates, Inc.

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LEGEND

X 12.5	EXISTING SPOT ELEVATION
•7.5	PROPOSED SPOT ELEVATION
— —5212'— —	EXISTING CONTOUR
—205—	PROPOSED CONTOUR
—·—·—	SWALE
✓	VERIFIED ELEVATION

TARLOS & ASSOCIATES
ARCHITECTS - ENGINEERS
A.I.A. - A.P.A.
17802 MITCHELL, IRVINE, CA. 92714
FAX (714) 250-1675
(714) 250-4177

Sweet Tomatoes
Salad Buffet Restaurant

GRADING AND DRAINAGE PLAN
N.W.C. OF SAN MATEO BLVD. NE & LUMBER AVE. NE
ALBUQUERQUE, NEW MEXICO

REVISION

DATE	JOB NO
04-16-96	948.070
SCALE 1"=20'	DRAWN BY LAN

REVISION

DRAWING NO. C-3

SWEETTOM.DWG

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DIRECTOR
Roberta Duran
NOTARY PUBLIC
OFFICIAL SEAL Roberta Duran NOTARY PUBLIC STATE OF NEW MEXICO My Commission Expires 07/03/02

D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D