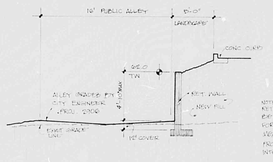
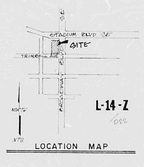
PUBLIC WORKS/HYDROLOGY

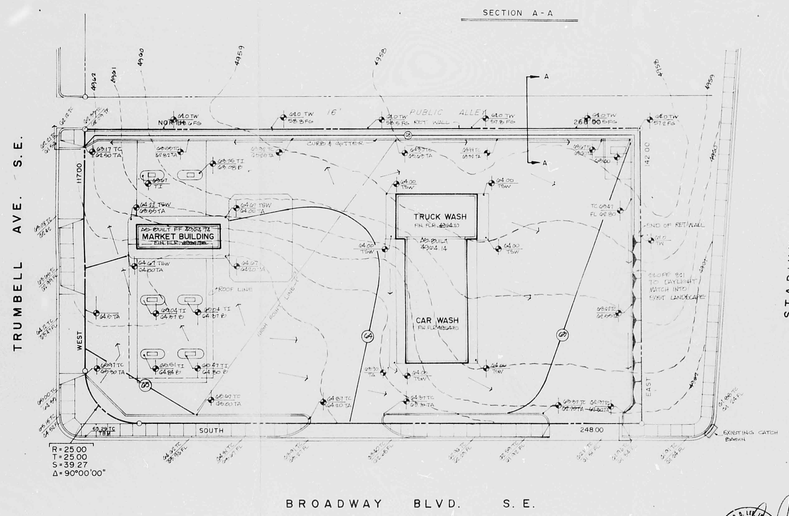
L14/D22



SECTION A - A



LOCATION MAP



LEGAL

PARCEL A, BLOCK K, EASTERN ADDITION.

I HEREBY CERTIFY THAT I AM A LICENSED ENGINEER, # 1872, AND HAVE CHECKED THE FINISH FLOOR ELEVATION AND FOUND IT TO BE IN SUBSTANTIAL COMPLIANCE AS SHOWN HEREON.

6/25/87
6/26/87

NORTH
SCALE 1"=20'

GRADING AND DRAINAGE PLAN

0 10 25 50

DRAINAGE CALCULATIONS

REFERENCES:

A. City of Albuquerque Development Process Manual (DPM) Vol. 2 Design Criteria, Chapter 22: Drainage, Flood Control, and Erosion Control.

B. Soil Survey of Bernalillo County and parts of Sandoval and Valencia Counties, New Mexico, United States Department of Agriculture, Soil Conservation Service

C. Floodway, Flood Boundary and Floodway map, City of Albuquerque, New Mexico, Panel 34 of 50

D. County Zone Atlas page L-14-Z.

I. GENERAL INFORMATION:

A. Soil Type (Ref. B, Page 20) Soil type is Cut and Fill land (Cd) Hydrologic Soil Group "A".

B. Impervious areas

Type of Surface	Existing Sq. Ft.	Existing Area Acres	Proposed Sq. Ft.	Proposed Area Acres
Building Roof	2380	0.0502	5600	0.1286
Concrete Surfaces	-0-	-0-	3900	0.0895
Asphalt Surfaces	-0-	-0-	25489	0.5852
Landscaping	-0-	-0-	2933	0.0673
Undeveloped Surface	35342	0.8114	-0-	-0-
Site Total	37922	0.8706	37922	0.8706

C. "C" Factor (See Amendment to the DPM Jan.19,1988)

1. Proposed impervious surfaces "C" Factor Area C x A
   - Building (Roof area) 0.90 0.1286 0.1157
   - Concrete surface 0.95 0.0895 0.0850
   - Asphalt surface 0.95 0.5852 0.5559
   - Landscape surface 0.23 0.2933 0.0673
   - Undeveloped surface 0.40 -0- -0-

   Developed weighted "C" Factor 0.7734/0.8706 = 0.89

2. Existing impervious surfaces "C" Factor Area C x A
   - Building(Roof Area) 0.90 0.0502 0.0533
   - Undeveloped Area 0.40 0.8114 0.3248

   Existing weighted "C" Factor = 0.3779 / 0.8706 = 0.43

D. Rainfall, 100-year, 6-hour, R(6); (See Ref. A, Plate 22.2 D-1); R(6) = 2.25 inches.

E. Time of Concentration, Tc: Tc < 10 minutes; use 10 minutes (minimum value) for calculations.

F. Rainfall intensity, I; (See Ref. A, Plate 22.2 D-2

   I = R(6) x 6.84 x Tc exp (-0.51)
   = 2.25 x 6.84 x 10 exp (-0.51)
   = 4.74 in/hr

III. PEAK DISCHARGE:

A. Existing Conditions. (Use Rational Equation)
   Q(100) = 0.43 x 4.74 x 0.8706 = 1.78 cfs
   Q(10) = 0.657 x 1.78 = 1.17 cfs (Ref. A,Plate 22.2 D-1)

B. Developed Conditions.
   Q(100) = 0.89 x 4.74 x 0.8706 = 3.69 cfs
   Q(10) = 0.657 x 3.69 = 2.42 cfs

IV. FLOOD INFORMATION:

A. Proposed site does not lie within a designated flood zone. Ref. C, Panel 22 of 50.

VI. CONCLUSIONS:

A. This is an infill development.
B. All runoff generated on adjacent land discharges freely into the existing Right-of-Way.
C. There are no off site flows on to this property.
D. Approx. 1400 cu. yds. of clean fill will be brought in to lift the back portion of the lot. 60% of total runoff generated will be released into the Broadway Blvd. S.E., which is drain by existing underground stormdrain systems. A type "B" catchbasin is located at the intersection of Broadway Blvd. S.E. and Stadium Blvd. S.E. The remaining runoff is discharged into Trumbell Ave. S.E. The runoff are released into these right-of-way freely.

V. CONSTRUCTION NOTES:

1. Two (2) working days prior to any excavation, contractor must contact line locating service at 765-1234 for location of existing utilities.
2. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all potential obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
3. All work on this project shall be performed in accordance with applicable Federal, State and Local laws, rules, and regulations concerning construction safety and health.
4. All construction within City Right-of-Way shall be performed in accordance with applicable City of Albuquerque standards and procedures.

LEGEND

Existing Contour ——— 4892

Designed Contour ——— (28)

Existing Spot Elevation ——— 4892 TC

Designed Spot Elevation ——— 4892 TC / 4890 TA

RECEIVED MAR 01 1988 HYDROLOGY SECTION

ABBREVIATIONS

FL	Flow line
TA	Top of asphalt
TC	Top of curb
TSW	Top of sidewalk
TBM	Temporary Benchmark
B	Base of Island

Benchmark Information:
Tempory benchmark as shown on plan marked with blue spray paint, "□ TBM", sprayed painted on top of curb beyond elevation 4965.29 (MSL) reference to City Benchmark 10-K14 Elevation 4957.597 (MSL).

DIAMOND SHAMROCK GAS STATION

C-2

R# 27 DATE 3-29-02 CR EJP

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the Public Works Department and was created in the normal course of business.

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

DIRECTOR

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

NOTARY PUBLIC
OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 6/18/2002

PLANS/PLATS ON FILE

FILE DESC: L14/D22

PLANS/PLATS 1

E 30 D 24 C 20 B 16 A 12

CITY OF ALBUQERQUE C D F

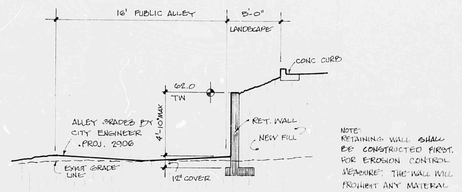
HYDROLOGY

L14/D22
2 PLANS

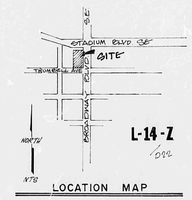
L14/D22

2 Plans

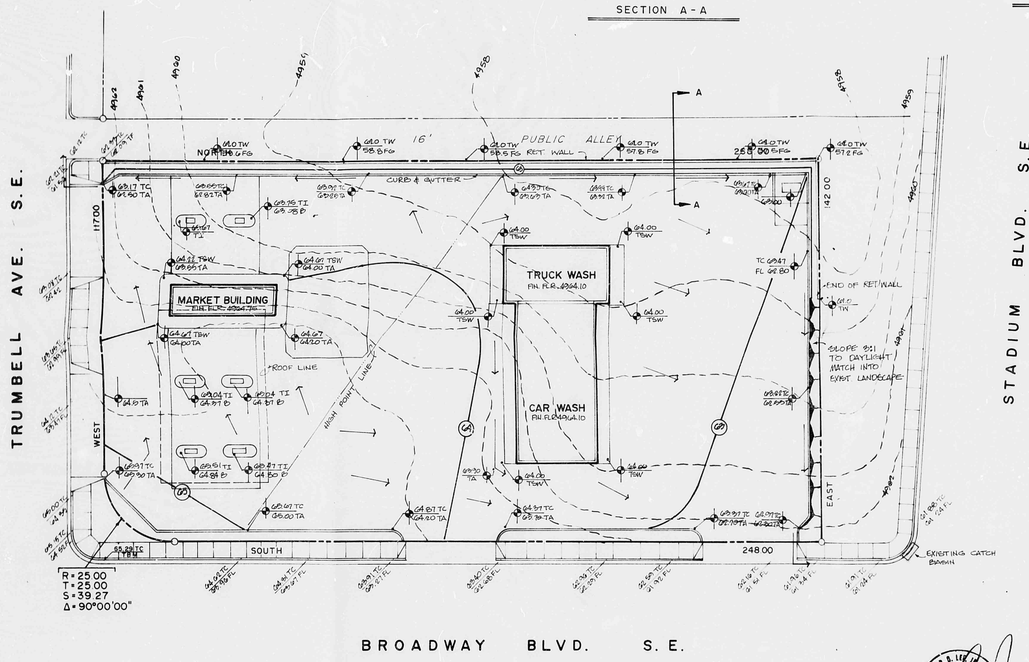
2 C B A
24 20 18 12
CITY OF ALBUQUERQUE
C D



SECTION A - A



LOCATION MAP



LEGAL

PARCEL A, BLOCK K, EASTERN ADDITION.

GRADING AND DRAINAGE PLAN

0 10 25 50

DRAINAGE CALCULATIONS

REFERENCES:

A. City of Albuquerque Development Process Manual (DPM) Vol. 2, Design Criteria, Chapter 22: Drainage, Flood Control, and Erosion Control.

B. Soil Survey of Bernalillo County and parts of Sandoval and Valencia Counties, New Mexico, United States Department of Agriculture, Soil Conservation Service.

C. Floodway, Flood Boundary and Floodway map, City of Albuquerque, New Mexico, Panel 34 of 50

D. County Zone Atlas page L 14 Z.

I. GENERAL INFORMATION:

A. Soil Type (Ref. B, Page 20) Soil type is Cut and Fill land (Cu) Hydrologic Soil Group "A".

B. Imperviousness:

Type of Surface	Existing Sq. Ft.	Area Acres	Proposed Sq. Ft.	Area Acres
Building Roof	2580	0.0592	5600	0.1286
Concrete Surfaces	-0-	-0-	3900	0.0895
Asphalt Surfaces	-0-	-0-	25489	0.5852
Landscaping	-0-	-0-	2933	0.0673
Undeveloped Surface	35342	0.8114	-0-	-0-
Site Total	37922	0.8706	37922	0.8706

C. "C" Factor (See Amendment to the DPM Jan 19,1988)

1. Proposed impervious surfaces "C" Factor Area C x A
   - Building (Roof area) 0.90 0.1286 0.1157
   - Concrete surface 0.95 0.0895 0.0850
   - Asphalt surface 0.95 0.5852 0.5559
   - Landscape surface 0.25 0.2933 0.0673
   - Undeveloped surface 0.40 -0- -0-
   - Developed weighted "C" Factor 0.7734/0.8706 = 0.89

2. Existing impervious surfaces "C" Factor Area C x A
   - Building (Roof Area) 0.90 0.0592 0.0533
   - Undeveloped Area 0.40 0.8114 0.3246
   - Existing weighted "C" Factor = 0.3779 / 0.8706 = 0.43

D. Rainfall, 100-year, 6-hour, R(6), (See Ref. A, Plate 22.2 D-1), R(6) = 2.25 inches

E. Time of Concentration, Tc: Tc < 10 minutes, use 10 minutes (minimum value) for calculations

F. Rainfall intensity, I: (See Ref. A, Plate 22.2 D-2)

I = R(6) x 6.84 x Tc exp (-0.51)
= 2.25 x 6.84 x 10 exp (-0.51)
= 4.76 in/hr

III. PEAK DISCHARGE:

A. Existing Conditions (Use National Equation)
Q(100) = 0.43 x 4.76 x 0.8706 = 1.78 cfs
Q(10) = 0.857 x 1.78 = 1.17 cfs (Ref. A,Plate 22.2 D-1)

B. Developed Conditions
Q(100) = 0.89 x 4.76 x 0.8706 = 3.69 cfs
Q(10) = 0.857 x 3.69 = 2.42 cfs

IV. FLOOD INFORMATION:

A. Proposed site does not lie within a designated flood zone. Ref. C, Panel 22 of 50

VI. CONCLUSIONS:

A. This is an infill development.
B. All runoff generated on adjacent land discharges freely into the existing Right-of-Way.
C. There are no off site flows on to this property
D. Approx. 1400 cu. yrds. of clean fill will be brought onto site in the back portion of the lot. 60% of total runoff generated will be released into the Broadway Blvd. S.E., which is drain by existing underground storm-drain systems. A type "B" catchbasin is located at the intersection of Broadway Blvd. S.E. and Stadium Blvd. S.E. The remaining runoff is discharged into Trumbell Ave. S.E. The runoff are released into those right-of-way freely

VI. CONSTRUCTION NOTES

1. Two (2) working days prior to any excavation, contractor must contact line locating service at 765-1234 for location of existing utilities.

2. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all potential conflict locations. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.

3. All work on this project shall be performed in accordance with applicable Federal, State and Local laws, rules, and regulations concerning construction safety and health.

4. All construction within City Right-of-Way shall be performed in accordance with applicable City of Albuquerque standards and procedures.

LEGEND

Existing Contour ——— 4902

Designed Contour ——— (98)

Existing Spot Elevation - 98.98 TC

Designed Spot Elevation - 98.98 TC / 98.98 TA

ABBREVIATIONS

FL	Flow line
TA	Top of asphalt
TC	Top of curb
TSW	Top of sidewalk
TBM	Temporary Benchmark
B	Base of Island

Benchmark information.
Temporary benchmark as shown on plan marked with blue spray paint. □ TBM, sprayed painted on top of curb. Bears elevation 4985.20 (MSL) reference to City Benchmark 15 K14 Elevation 4987.597 (MSL)

DIAMOND SHAMROCK GAS STATION

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

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C33-182

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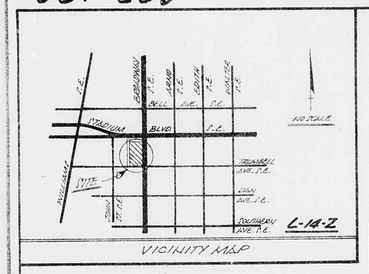
D.R.B. NO: SC-347
TAX CODE #: 1-014-052-134-357-20248



VICINITY MAP

APPROVALS:

TALOS LOG NUMBER 05-14-1420

ZONE ATLAS INDEX NO. L-14-Z

APPROVED 6-10-87
CITY OF ALBUQUERQUE/BERNALILLO COUNTY PLANNING DEPARTMENT

PLAT NO. SC-87-199

APPROVED 6-15-87
PROPERTY MANAGEMENT

APPROVED 6-9-87
TRAFFIC ENGINEERING

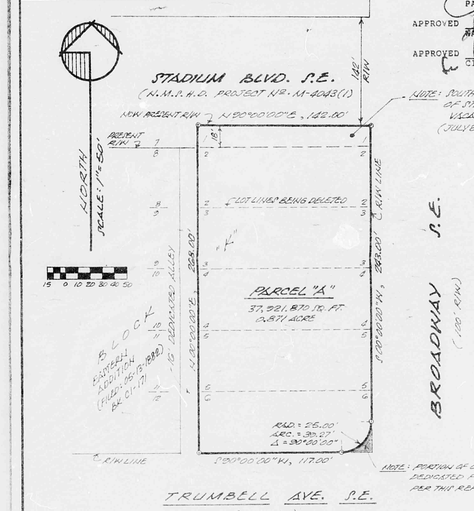
APPROVED 6-9-87
CITY ENGINEERING

APPROVED 6-9-87
A.M.A.F.C.A.

APPROVED 6-9-87
PARKS AND RECREATION DEPARTMENT

APPROVED 6-9-87
WATER RESOURCES DEPARTMENT

APPROVED 051587
CITY SURVEYOR



NOTE: SOUTHERLY 18.0' VACATED PORTION OF STADIUM BLVD S.E., VACATED BY NO. V-86-79, (DRB-86-402) (JULY 8, 1986 D.R.B. MEETING).

NOTE: BEARINGS ARE REFERENCED TO ADJUSTED DOR "NORTH-SOUTH" ALONG THE WEST RIGHT-OF-WAY LINE OF BROADWAY S.E.; RECORD PLAT DOES NOT SHOW BEARINGS.

NOTE: THE PURPOSE OF THIS REPLAT IS TO ELIMINATE LOT LINES AND COMBINE ALL LOTS AS SHOWN HEREON INTO ONE (1) PARCEL.

NOTE: PORTION OF LOT SIX (6) BEING DEDICATED FOR STREET RIGHT-OF-WAY PER THIS REPLATTING, (.0241 ACRE FT.)

REPLAT SHOWING
PARCEL "A"
COMPRISING LOTS TWO (2) THRU SIX (6), INCLUSIVE
AND THE SOUTHERLY 18.0' OF LOT ONE (1)
BLOCK "K"
EASTERN ADDITION
ALBUQUERQUE, NEW MEXICO
MAY, 1986
(REVISED: MAY, 1987)

State of New Mexico
County of Bernalillo } SS
This instrument was filed for record on
JUN 12 1987
at 10:04 o'clock A.M. and recorded in Vol. 293
of records of said County of Bernalillo 1252
Witness my hand and seal of office
Clerk & Recorder
By: Deputy

RECEIVED
JUN 26 1987
HYDROLOGY SECTION

LEGAL DESCRIPTION AND FREE CONSENT STATEMENT:

THE FOREGOING REPLAT OF THAT CERTAIN PARCEL OF LAND SITUATE IN SECTION 29, TOWNSHIP 10 NORTH, RANGE 3 EAST, NEW MEXICO PRINCIPAL MERIDIAN, WITHIN THE CITY LIMITS OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO; BEING AND COMPRISING A REPLAT OF THE SOUTHERLY 18.0' OF LOT NUMBERED ONE (1) (ALSO BEING THE SOUTHERLY 18.0' VACATED PORTION OF STADIUM BLVD. S.E. VACATED BY VACATION ORDINANCE NO. V-86-79, DRB 86-402), AND ALSO LOTS NUMBERED TWO (2) THROUGH SIX (6), INCLUSIVE, IN BLOCK "K" OF THE EASTERN ADDITION, AN ADDITION TO THE CITY OF ALBUQUERQUE, NEW MEXICO, AS THE SAME ARE SHOWN AND DESIGNATED ON THE PLAT OF SAID ADDITION FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON MAY 13, 1882, (BK. C1-171).

REPLATTED, AND NOW BEING IDENTIFIED AS PARCEL "A", IN BLOCK "K", OF THE EASTERN ADDITION, TO THE CITY OF ALBUQUERQUE, NEW MEXICO, WITH THE FREE CONSENT OF, AND IN ACCORDANCE WITH THE WISHES AND DESIRES OF THE UNDERSIGNED OWNER(S) AND PROPRIETOR(S), THEREOF; SAID OWNER(S) AND PROPRIETOR(S) DO HEREBY DEDICATE TO THE CITY OF ALBUQUERQUE, NEW MEXICO, THAT SOUTHEAST PORTION OF LOT SIX (6), (AS SHOWN ON THE PLAT HEREON), FOR ADDITIONAL STREET RIGHT-OF-WAY.

Represented in Amount Partners Jon H. Koppel President
DSQ LIMITED PARTNERSHIP, (A NEW MEXICO LIMITED PARTNERSHIP)

ACKNOWLEDGEMENT:

STATE OF NEW MEXICO }
COUNTY OF BERNALILLO } SS:

ON THIS ___ DAY OF _____, 198__, BEFORE ME A NOTARY PUBLIC, IN AND FOR SAID COUNTY AND STATE, THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BY THE PERSON(S) DESCRIBED HEREIN, AND THAT SAID PERSON(S) ACKNOWLEDGED THE SAME AS THEIR OWN FREE ACT AND DEED.

NOTARY PUBLIC: _____ DATE: _____

SURVEYOR'S CERTIFICATION:

I, JOHN B. TORRES, NEW MEXICO REGISTERED PROFESSIONAL LAND SURVEYOR NO. 3221, LICENSED AND REGISTERED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS PLAT WAS PREPARED BY ME OR UNDER MY SUPERVISION AND DIRECTION; SHOWS ALL EASEMENTS OF RECORD; MEETS MINIMUM REQUIREMENTS FOR MONUMENTATION AND SURVEYS OF THE ALBUQUERQUE SUBDIVISION ORDINANCE; AND IS ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DISCLOSURE NOTE:

THIS REPLAT WAS PREPARED FROM DATA SHOWN ON THE PLATS OF RECORD AS REFERRED TO ON THE MAP HEREON. NO ACTUAL ON THE GROUND FIELD SURVEY WORK WAS PERFORMED FOR THIS REPLATTING.

JOHN B. TORRES, N.M.R.P.L.S. NO. 3221

TORRES SURVEYING
1570 BRIDGE BLVD. SW
ALBUQUERQUE, NEW MEXICO 87105

ACKNOWLEDGEMENT:

ON THIS _____ DAY OF _____, 198__, BEFORE ME, A NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE, THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BY JOHN B. TORRES, N.M.R.P.L.S. NO. 3221, AS HIS OWN FREE ACT AND DEED.

NOTARY PUBLIC: _____ DATE: _____

NOTE:
PRIOR TO DEVELOPMENT, CITY OF ALBUQUERQUE WATER AND SANITARY SEWER SERVICE TO PARCEL "A" MUST BE VERIFIED AND COORDINATED WITH THE WATER UTILITIES DEPARTMENT, CITY OF ALBUQUERQUE, VIA A REQUEST FOR A WATER AND SANITARY SEWER AVAILABILITY STATEMENT.

C33-182

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