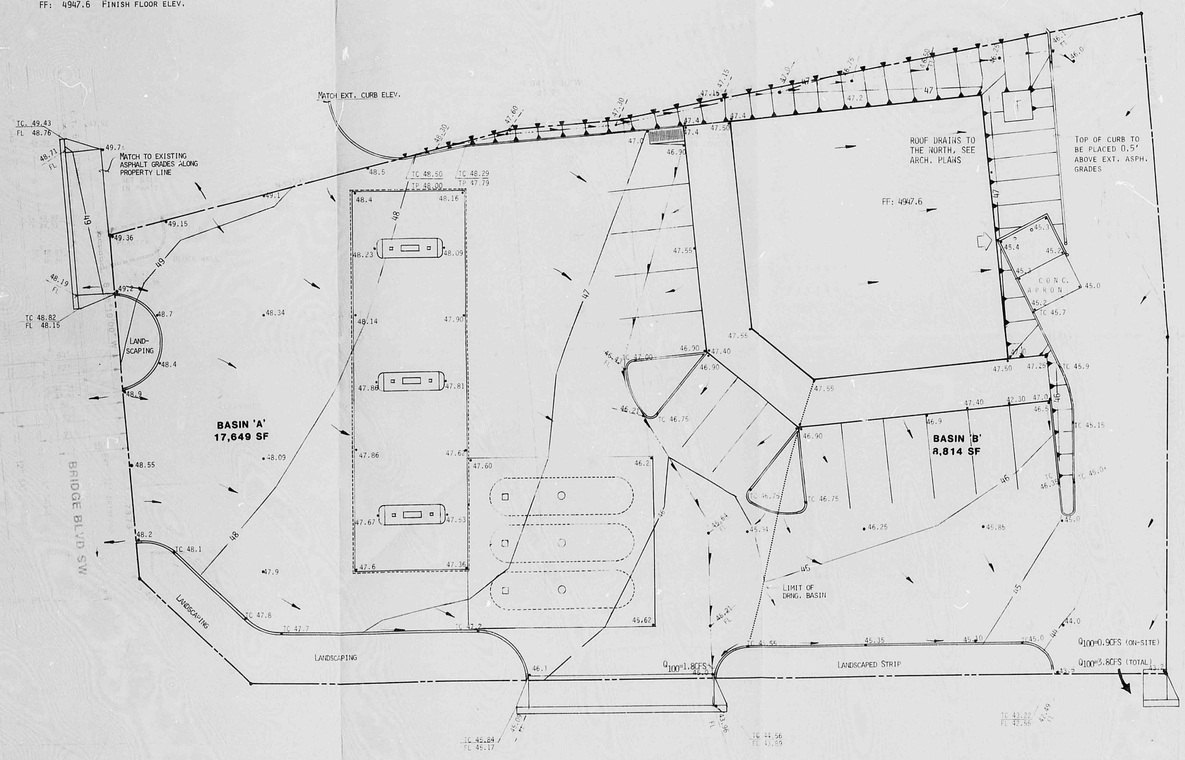
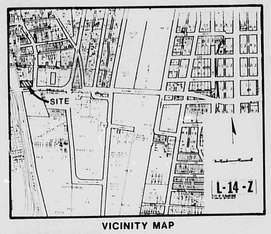
PUBLIC WORKS/HYDROLOGY

L14/D25A

LEGEND

x 49.1	EXT. SPOT ELEVATION
	EXT. CURB & GUTTER
TC 49.67 TP 48.68	EXT. TOP OF CURB TOP OF PVM'T ELEV.
	EXT. DRAINAGE SWALE
	PROPOSED CONTOUR
	FLOW DIRECTIONAL ARROW
	PROPOSED DRAINAGE SWALE
	PROPOSED CURB
FF: 4947.6	FINISH FLOOR ELEV.





VICINITY MAP

GENERAL NOTES

LEGAL DESCRIPTION: LOT B, BLOCK 6 OF A.J. SANCHEZ ADDITION, ALBUQUERQUE, NEW MEXICO FILED AUGUST 21, 1987 IN BOOK C34, PAGE 113. 0.6075 ACRE.

ENGINEER: ISAACSON & ARFMAN, P.A.
ATTN: FRED C. ARFMAN, P.E. (268-8828)

SURVEYOR: WILLIAM P. PETTIT, N.M.L.S. NO. 3243
DATE OF SURVEY: MAY 6, 1988

BENCHMARK: R.B. HWY 85 BR1, BARELAS ST. & PARKWAY AVE., CORP. OF ENGINEER BRASS CAP.

ELEV = 4941.45

T.B.M.: SQUARE AT WEST END OF NORTHWEST RETURN OF 8th STREET & BRIDGE BLVD.

ELEV = 4947.78

ZONING: SU-2

FLOOD HAZARD: NO PART OF THIS SITE IS SUBJECT TO A FLOOD HAZARD AREA OR FLOODWAY AS DETERMINED BY PANEL NO. 350002-0034 OF THE OCTOBER 14, 1983 EDITION OF THE F.E.M.A. MAPS.

DRAINAGE CHARACTERISTICS

EXISTING CONDITIONS: SITE IS AN ACTIVE CAR WASH WITH ASPHALT PAVING, CANOPIES, OFFICE AND LANDSCAPING INTACT. SITE HAS PUBLIC R.O.W.(15) BORDERING ON THE SOUTH & EAST, A FASTFOOD RESTAURANT ON THE WEST AND A 20' PRIVATE EASEMENT FOR DRAINAGE, UTILITIES AND ACCESS BEING PART OF THE SITE ALONG THE NORTH PROPERTY LINE. SAID PRIVATE DRAINAGE EASEMENT CONVEYS APPROX. 3.8 CFS OF STORM WATER FLOW (Q_{100}).

EXISTING STORM WATER CALCULATIONS:
AREA = 0.6075 Ac. = 26,401.95 SQ.FT.
D = 2.27 ÷ 0.183'
C = 0.95
I = 4.75

ONSITE
Q_{100} = (0.95)(4.75)(0.6075) = 2.74 CFS Q_{10}=1.80CFS
V_{100} = (0.95)(0.183)(26,402)= 4,590CF V_{10}=3,016CF

OFFSITE
Q_{100}=(0.92)(4.75)(0.6587)=2.88CFS Q_{10}=1.89CFS
V_{100}=(0.92)(0.183)(28,693)=4,831CF V_{10}=3,174 CF

TOTAL DISCHARGE TO 8TH ST. VIA. PRV'T DRAG. ESM'T.
Q_{100} = 5.6 CFS Q_{10}= 3.7 CFS
V_{100} = 9,421 CF V_{10}= 6,190 CF

PROPOSED DRAINAGE CONDITIONS: THE SITE'S RECONSTRUCTION SHALL CREATE MINOR VARIATIONS IN THE OVERALL DRAINAGE PATTERNS. DUE TO THE SHIFTING OF THE SOUTHERLY DRIVEPAD ALONG 8TH STREET TO THE NORTH, THAT DRAINAGE BASIN HAS EXPANDED IN AREA. THE TOTAL SITE STORM WATER GENERATION SHALL BE EQUAL TO THAT OF THE PREVIOUS USE.

PROPOSED STORM WATER CALCULATIONS:

DATA	BASIN A	BASIN B	TOTAL
AREA (S.F)	17,649	8,814	26,463
I	4.75	4.75	
C	0.95	0.95	
D (FT)	0.183	0.183	
Q_{100}(CFS)	1.8	0.9	2.7
Q_{10} (CFS)	1.2	0.6	1.8
V_{100}(CF)	3,068	1,532	4,600
V_{10} (CF)	2,016	1,007	3,023
W/OFFSITE			
Q_{100}(CFS	N/C	3.8	
Q_{10} (CFS)	N/C	2.5	
V_{100}(CF)	N/C	6,363	
V_{10} (CF)	N/C	4,180	

RECEIVED AUG 17 1988 HYDROLOGY SECTION

Isaacson & Arfman, P.A.
CONSULTING ENGINEERING ASSOCIATES
Albuquerque, New Mexico

Date
Designed
Checked

DRAINAGE & GRADING PLAN

CIRCLE K STORE
STORE NO. AB-20
8th STREET & BRIDGE BLVD. SW.

Sheet 1 of 1

R# 27 DATE 3-29-02 OP EOP

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 (NMAA-1977)

DIRECTOR

NOTARY PUBLIC

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

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.

PLANS/PLATS ON FILE

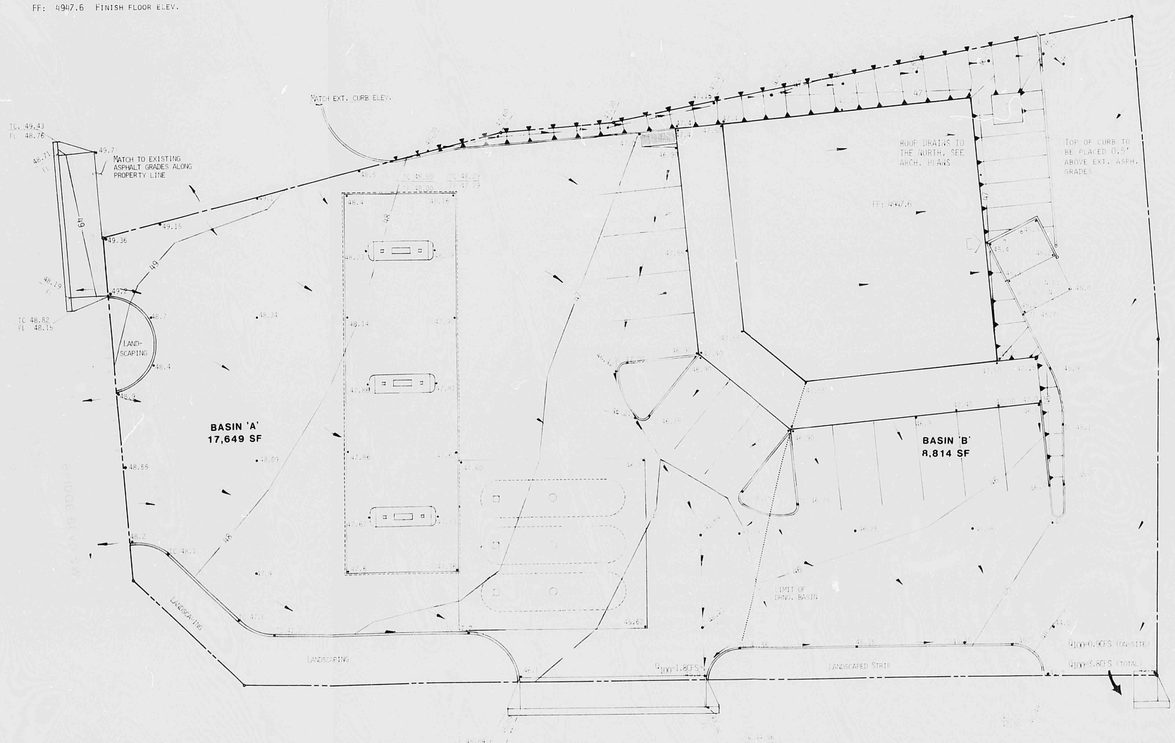
FILE DESC: L14/D25A

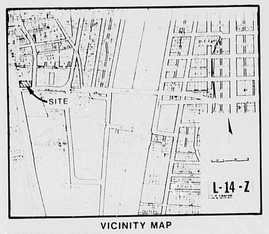
PLANS/PLATS 1

E 30 D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D F

LEGEND

49.1	EXT. SPOT ELEVATION
	EXT. CURB & GUTTER
TC 49.67 TP 48.68	EXT. TOP OF CURB ELEV. TOP OF PVM'T
	EXT. DRAINAGE SWALE
	PROPOSED CONTOUR
	FLOW DIRECTIONAL ARROW
	PROPOSED DRAINAGE SWALE
	PROPOSED CURB
FF: 4947.6	FINISH FLOOR ELEV.





VICINITY MAP

GENERAL NOTES

LEGAL DESCRIPTION: LOT B, BLOCK 6 OF W.L. SANCHEZ ADDITION, ALBUQUERQUE, NEW MEXICO FILED AUGUST 21, 1947 IN BOOK C64, PAGE 115, 0.4075 ACRE.

ENGINEER: ISAACSON & ARFMAN, P.A.
ATTN: PAUL R. ARFMAN, P.E. 268-8828

SURVEYOR: WILLIAM K. PETTIT, N.M. P.L.S. NO. 5067
DATE OF SURVEY: MAY 6, 1988

BENCHMARK: B.L.M. NAV AR BRL, BARELAS ST. & RAILROAD AVE., CORP. OF ENGINEER BRASS CAP.
ELEV. = 4944.148

T.B.M.: SQUARE AT WEST END OF NORTHEAST RETURN OF 8TH STREET & BRIDGE BLVD.
ELEV. = 4944.27

ZONING: SU-2

FLOOD HAZARD: NO PART OF THIS SITE IS SUBJECT TO A 100 YEAR FLOOD HAZARD AREA OR FLOODWAY AS DETERMINED BY PANEL NO. 350002-0054 OF THE OCTOBER 16, 1982 EDITION OF THE F.E.M.A. MAPS.

DRAINAGE CHARACTERISTICS

EXISTING CONDITIONS: SITE IS AN ACTIVE CAR WASH WITH ASPHALT PAVED SURFACES, CURBS AND ADJACENT. INFANT. SITE HAS PUBLIC SIDEWALK BORDERING ON THE NORTH & EAST, A PRIVATE RESTAURANT ON THE WEST SIDE, A PRIVATE EASEMENT FOR DRAINAGE, UTILITIES AND ACCESS BEING PART OF THE SITE ALONG THE NORTH PROPERTY LINE. SAID PRIVATE DRAINAGE EASEMENT CONVEYS APPROX. 3.5 CFS OF STORM WATER FLOW (100Y).

EXISTING STORM WATER CALCULATIONS:
AREA = 0.4075 AC. = 16,491.95 SQ.FT
C = 0.95
Q100 = 3.5 CFS

DRAINAGE:
Q100 = (0.95)(1.75)(0.4075) = 2.04 CFS Q10 = 1.80 CFS
Q100 = (0.95)(0.18)(0.402) = 0.06 CFS Q10 = 0.05 CFS

OFFSITE:
Q100 = (0.95)(1.75)(0.25)(0.95) = 0.39 CFS Q10 = 0.34 CFS
Q100 = (0.95)(0.18)(0.25)(0.95) = 0.04 CFS Q10 = 0.04 CFS

TOTAL DISCHARGE TO 8TH ST. VIA PRIVT DRAIN ESM'T.
Q100 = 2.43 CFS Q10 = 2.13 CFS
Q100 = 3.46 CFS Q10 = 3.00 CFS

PROPOSED DRAINAGE CONDITIONS: THE SITE'S RECONSTRUCTION SHALL CREATE MINOR VARIATIONS IN THE OVERALL DRAINAGE PATTERNS. DUE TO THE SHIFTING OF THE SOUTHERLY DRIVEPAD ALONG 8TH STREET TO THE NORTH, THAT DRAINAGE BASIN HAS EXPANDED IN AREA. THE TOTAL SITE FLOW RATE GENERATION SHALL BE EQUAL TO THAT OF THE PREVIOUS USE.

PROPOSED STORM WATER CALCULATIONS:

DATA	A	BASIN B	TOTAL
AREA (S.F.)	17,649	8,814	26,463
	0.405	0.202	0.607
C	0.95	0.95	
T	0.18	0.18	
I100	1.75	1.75	
Q100 (CFS)	0.68	0.34	1.02
Q10 (CFS)	0.57	0.28	0.85
Q100 (CFS)	1.02	0.54	1.57
Q10 (CFS)	0.85	0.45	1.30
Q100 (CFS)	0.68	0.34	1.02
Q10 (CFS)	0.57	0.28	0.85
Q100 (CFS)	1.02	0.54	1.57
Q10 (CFS)	0.85	0.45	1.30
Q100 (CFS)	0.68	0.34	1.02
Q10 (CFS)	0.57	0.28	0.85
Q100 (CFS)	1.02	0.54	1.57
Q10 (CFS)	0.85	0.45	1.30

Date
Designed
Checked

Isaacson & Arfman, P.A.
CONSULTING ENGINEERING ASSOCIATES
Albuquerque, New Mexico

DRAINAGE & GRADING PLAN

CIRCLE K STORE
STORE NO. AB-20
8th STREET & BRIDGE BLVD. SW

Sheet 1 of 1

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# 27 DATE 3-29-02 OP EQP

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 (MS125-1977)

DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Rolanda Duran
NOTARY PUBLIC
07/27/02