HYDROLOGY

B14/D1a
2 PLANS

B14/DIA

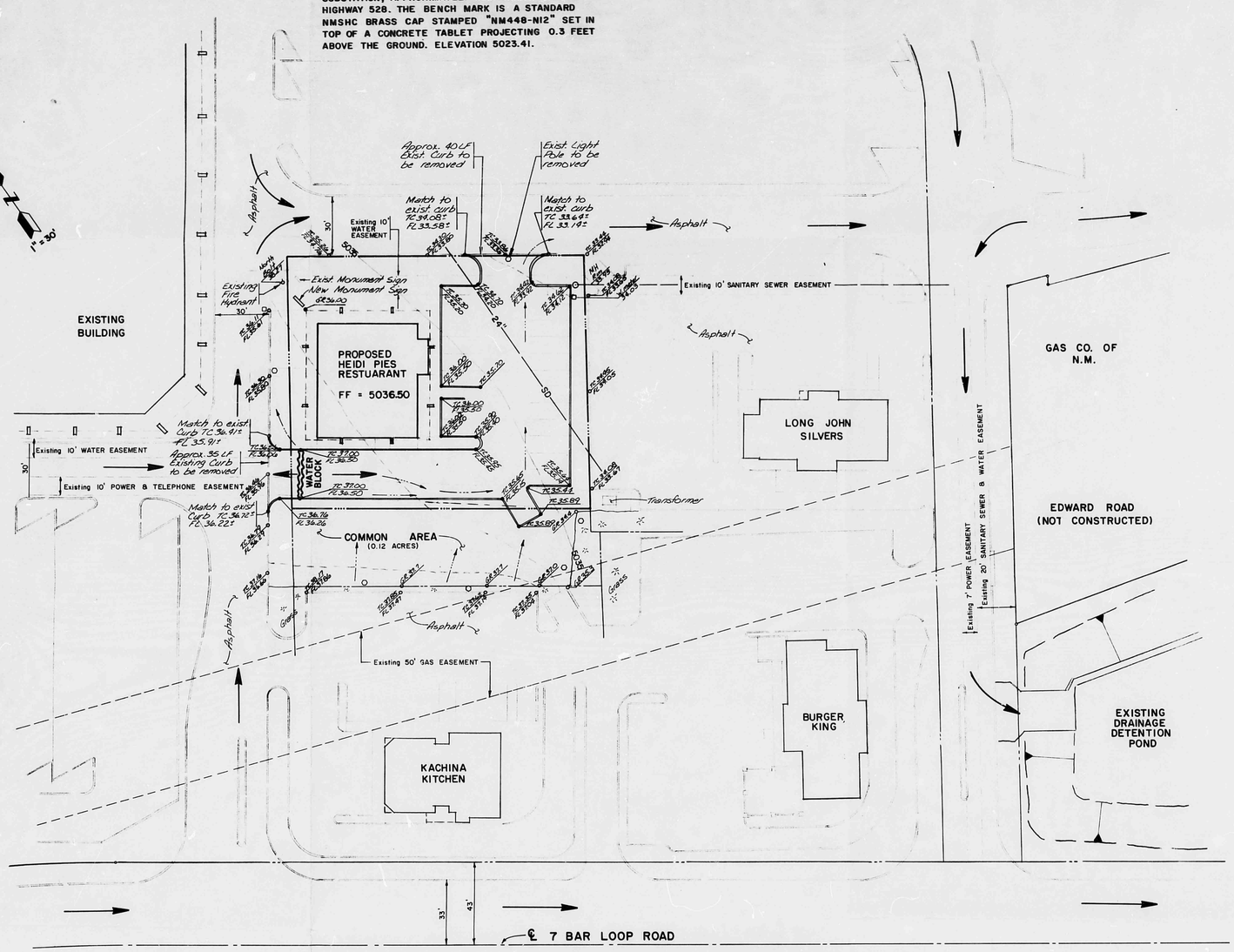
2 Plans

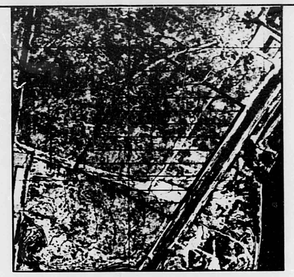
BENCH MARK

THE BENCH MARK IS LOCATED ON THE WEST SIDE OF COORS ROAD IN FRONT OF THE MOUNTAIN BELL SUBSTATION, APPROXIMATELY 550' SOUTH OF STATE HIGHWAY 528. THE BENCH MARK IS A STANDARD NMSHC BRASS CAP STAMPED "NM448-N12" SET IN TOP OF A CONCRETE TABLET PROJECTING 0.3 FEET ABOVE THE GROUND. ELEVATION 5023.41.

LEGAL DESCRIPTION

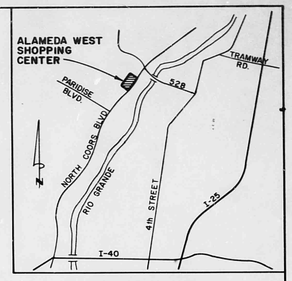
TRACT E, ALAMEDA WEST SHOPPING CENTER





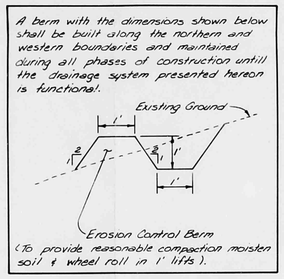
FLOOD INSURANCE MAP

REFERENCE: FLOOD INSURANCE STUDY

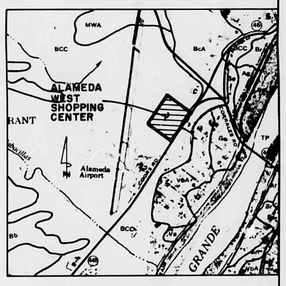


LOCATION MAP

ZONE ATLAS PAGE B-12-Z

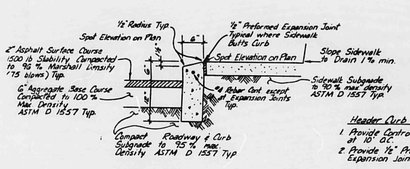


EROSION CONTROL PLAN



SOILS MAP

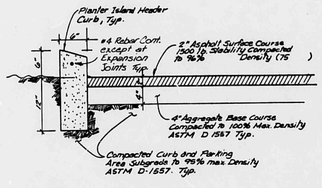
REFERENCE: SCS BERNALILLO COUNTY SOIL SURVEY



DETAIL P-1

TYPICAL ONSITE ROADWAY PAVEMENT SECTION

NO SCALE



DETAIL P-3

TYPICAL PARKING AREA PAVEMENT SECTION

NO SCALE

Site Location and Existing Conditions

The 0.4507 acre site is currently an undeveloped parcel located in the Alameda West Shopping Center approximately 1/2 mile south of State Road 528. A Vicinity Map, shown on this sheet, identifies the location. All adjacent lands have been developed.

The undeveloped site was rough graded in the initial development of the Alameda West Shopping Center to slope gradually to the north at approximately 2%. The SCS soil type for the site is predominately Bluepoint loamy fine sand. The hydrological soil group is Type "A" (see Soils Map on this sheet).

Existing runoff of approximately 0.42 cfs during the 100-year storm event drains from the site and adjacent 0.12 acre common area to the asphalt areas along the north boundary. Eventually, runoff from the site and surrounding areas drain to an existing detention pond in the southeast corner of the shopping center, adjacent to Coors Boulevard. Except for the common area, there are currently no significant offsite flows impacting the site.

Proposed Conditions

The site is proposed to free discharge 1.22 cfs (includes flows from the off-site common area) to the north and west (ref. Plate 4 of the Alameda West Shopping Center Drainage Report included in the rear pocket of the bound report). This runoff will then drain along an existing loop road to the detention pond west of Coors Road. A water block will be built at the west entrance to the site to prevent offsite runoff from entering the site.

Existing	Proposed
Area = 0.57 Acres (incl. common area)	Area = 0.57 Acres
% Impervious = 0%	% Impervious = 56%
C = 0.16	C = 0.48
6 hr. Rain Volume = 2.2" (100-year)	6 hr. Rain Volume = 2.2"
Intensity (I) = 4.65 in/hr	Intensity (I) = 4.56 in/hr
Tc = 10 min.	Tc = 10 min.
Peak Discharge (Q) = CIA	Q = (0.48) (4.65) (0.57)
Q = (0.16) (4.65) (0.57) = 0.42 cfs	Q = 1.22 cfs
Runoff Volume = (0.16) $\frac{2.2"}{12}$ (0.57)	Runoff Volume = (0.48) $\frac{2.2"}{12}$ (0.57)
= 0.02 ac. ft.	= 0.05 ac. ft.

GRADING NOTES

1. In cut areas, after finish grade has been reached, the exposed soils should be scarified to a minimum depth of 8 inches, moisture-conditioned as necessary, and compacted to a minimum of 95% of maximum dry density as determined by ASTM D-1557 with a minimum of 10 passes of a heavy vibratory roller.
2. Backfill around the foundations should be free of trash and construction debris, and should be moistened and compacted to a minimum of 90% of maximum density as determined by ASTM D-1557. Only enough water should be added to the backfill material to allow proper compaction. Do not puddle or jet backfill.
3. Prior to placement of site fill, and subsequent to final grading in cut sections, the natural ground shall be scarified, brought to optimum moisture content (± 2%) and compacted to a minimum of 95% of maximum density as determined by ASTM D-1557, with a minimum of 10 passes of a heavy vibratory roller. Vegetation and topsoil shall be removed before beginning preparation of natural ground.
4. Before compacting, the fill material shall be spread in approximately horizontal layers not greater than 8 inches thick.
5. Contractor shall be responsible for complying with these grading notes and any other requirements as outlined in the "Subsurface Investigation, Alameda West Shopping Center, Corrales Road and Coors Road, Albuquerque, New Mexico", Job No. 0111150, April 11, 1983, prepared by Fox and Associates of New Mexico. Additional copies of the report may be obtained from Fox and Associates.

LEGEND

- PROJECT BOUNDARY
- EXISTING CONTOURS
- DIRECTION OF FLOW
- EXISTING LIGHT POLE
- PROPOSED CURB
- EXISTING CURB
- WATER BLOCK
- TC 37.35 / FL 36.85 — EXISTING SPOT ELEVATION (TOP OF CURB, FLOW LINE, GROUND)
- TC 36.50 / FL 36.00 — PROPOSED SPOT ELEVATION (TOP OF CURB, FLOW LINE)

RECEIVED MAR 13 1986 HYDROLOGY SECTION

Date	Revision	By

HEIDI PIES
IN ALAMEDA WEST SHOPPING CENTER

Project No.

Seal: JAMES R. TOFMILL 5354 REGISTERED PROFESSIONAL ENGINEER 3-13-86

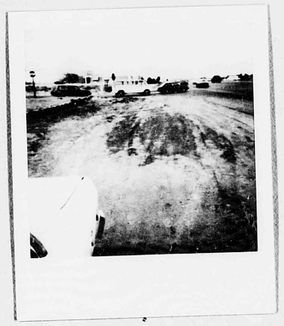
DRAINAGE / GRADING PLAN

Job No. 61351		Sheet 1	Of 1
Drawn By: TG		Date: 2/86	
Checked By: JT		Scale: 1" = 30'	

SHEET NO. OF SHEETS

BARKER-BOIL & ASSOCIATES
ARCHITECTS PLANNERS
209 GOLD AVENUE S.W.
ALBUQUERQUE, NEW MEXICO 87102 505-842-6789

JOB NO.
DATE
REVISIONS



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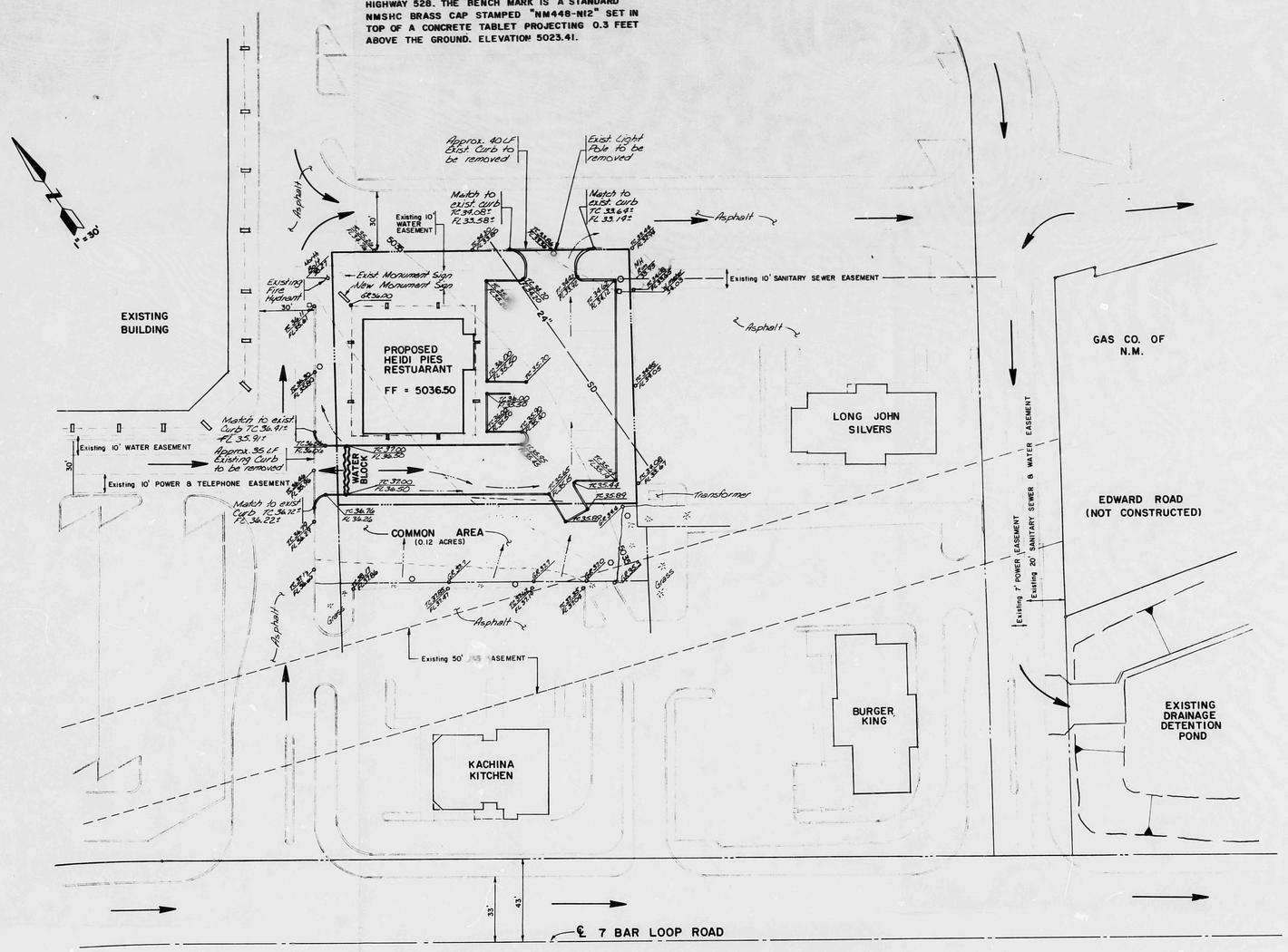
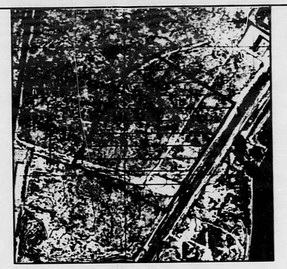




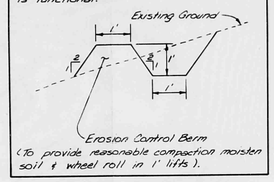
FLOOD INSURANCE MAP

REFERENCE: FLOOD INSURANCE STUDY

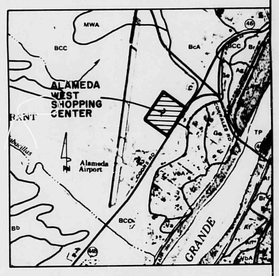
LOCATION MAP

ZONE ATLAS PAGE B-12-Z

A berm with the dimensions shown below shall be built along the northern and western boundaries and maintained during all phases of construction until the drainage system presented hereon is functional.



EROSION CONTROL PLAN



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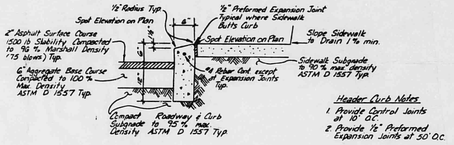
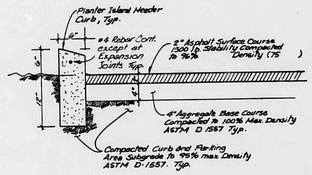


Header Curb Notes:
1. Provide Control Joints at 10' O.C.
2. Provide ½" Preformed Expansion Joints at 50' O.C.

DETAIL P-1

TYPICAL ONSITE ROADWAY PAVEMENT SECTION

NO SCALE



DETAIL P-3

TYPICAL PARKING AREA PAVEMENT SECTION

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RECEIVED
MAR 13 1986
HYDROLOGY SECTION

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Proposed

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C = 0.48
6 hr. Rain Volume = 2.2"
Intensity (I) = 4.56 in/hr
Tc = 10 min.
Q = (0.48) (4.65) (0.57)
Q = 1.22 cfs
Runoff Volume = $(0.48)\ \frac{2.2"}{12}(0.57)$
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Date	Revision	By

HEIDI PIES
IN ALAMEDA WEST SHOPPING CENTER

Project No.

DRAINAGE / GRADING PLAN

Seal: JAMES N. TOLMIE 5334 REGISTERED PROFESSIONAL ENGINEER 3-13-86

Job No. 61351	Sheet 1	Of 1	
Drawn By: TG	Date: 2/86		
Checked By: JT	Scale: 1" = 30'		

SHEET NO.
OF SHEETS

BARKER·BOLL & ASSOCIATES
ARCHITECTS & PLANNERS
209 GOLD AVENUE S.W.
ALBUQUERQUE, NEW MEXICO 87102 505-842-6789

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