

CONSTRUCTION PLANS FOR

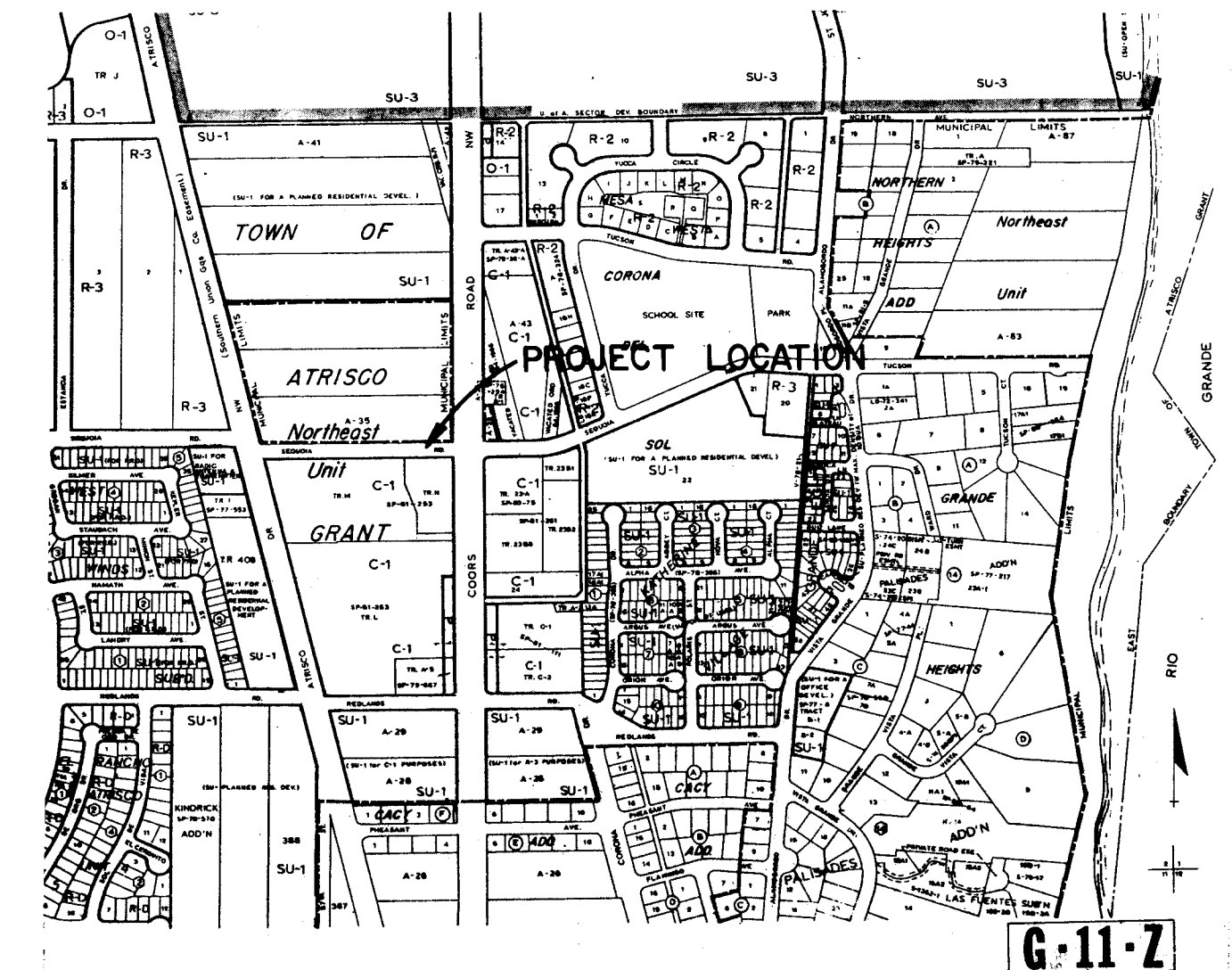
UNITED NEW MEXICO BANK

WATER & STREET PAVING DESIGN

SHEET

INDEX

1. COVER SHEET, VICINITY MAP & GENERAL NOTES
2. WATER & STREET PAVING
3. DRAINAGE & GRADING PLAN



VICINITY MAP

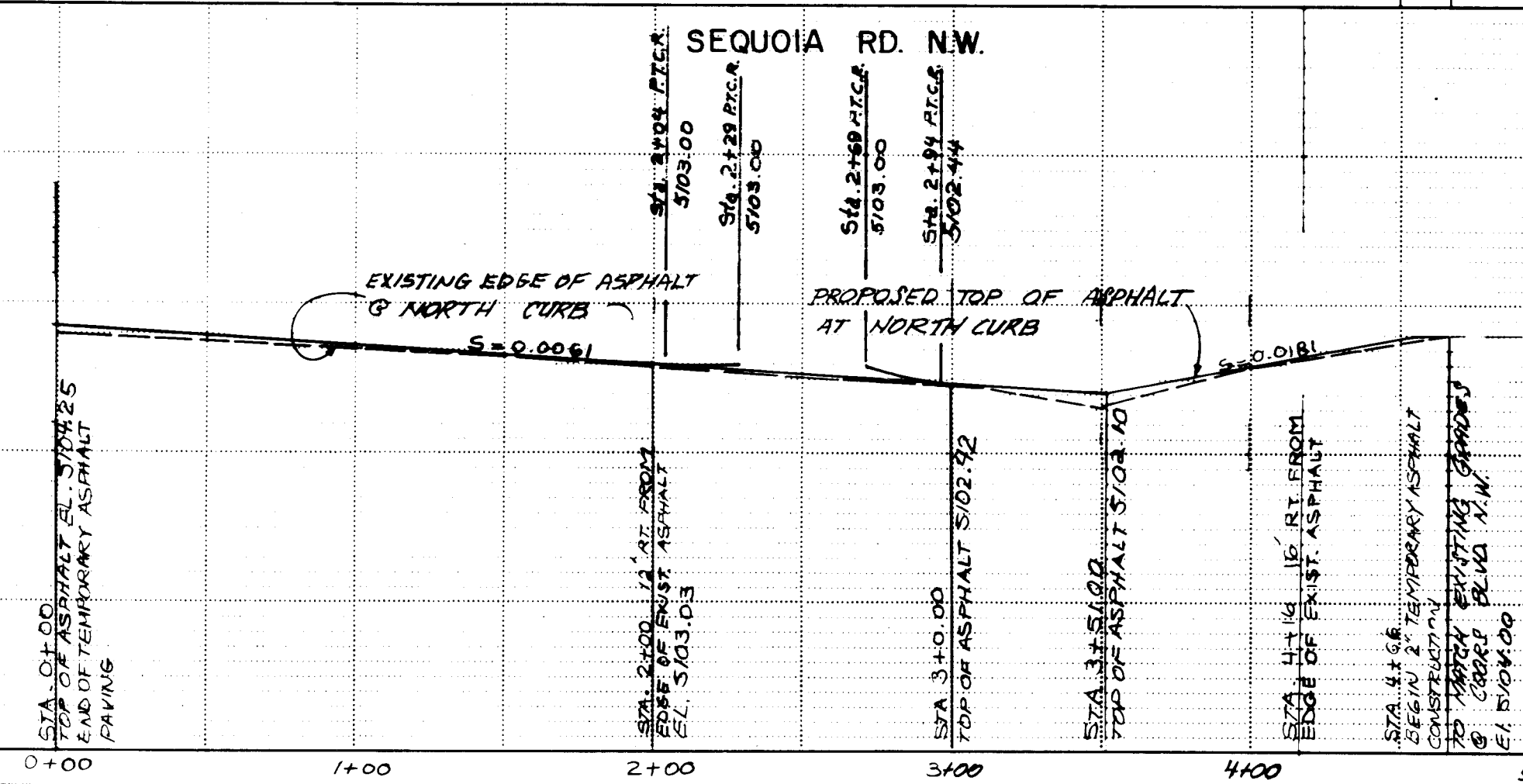
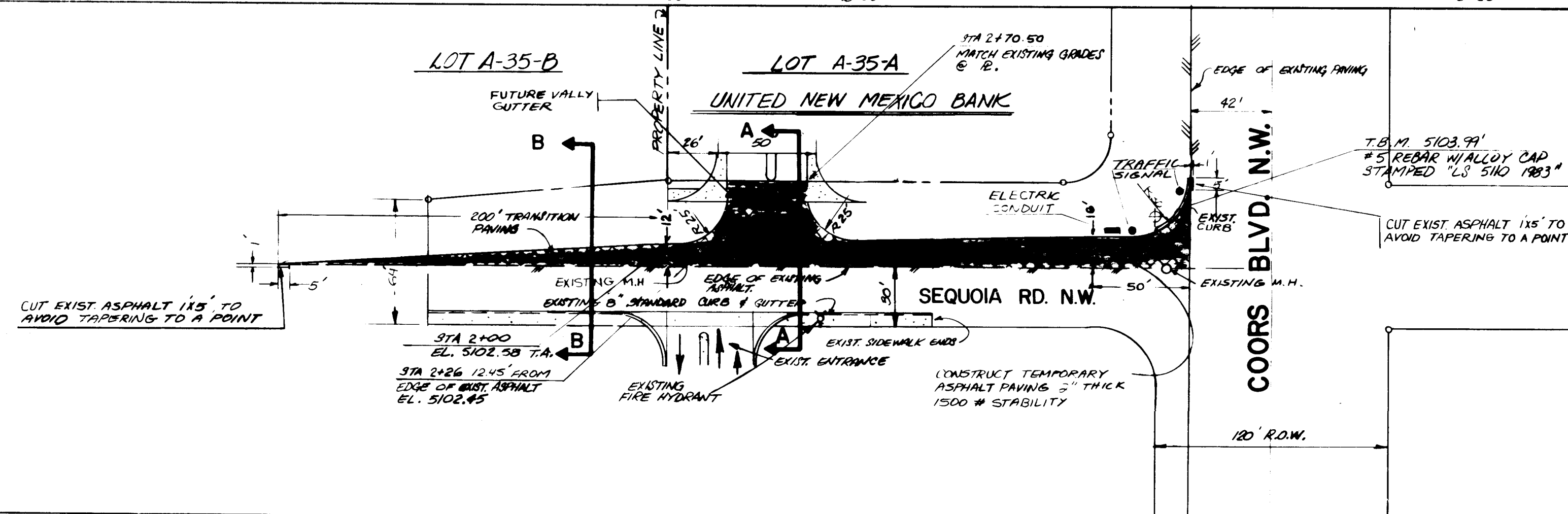
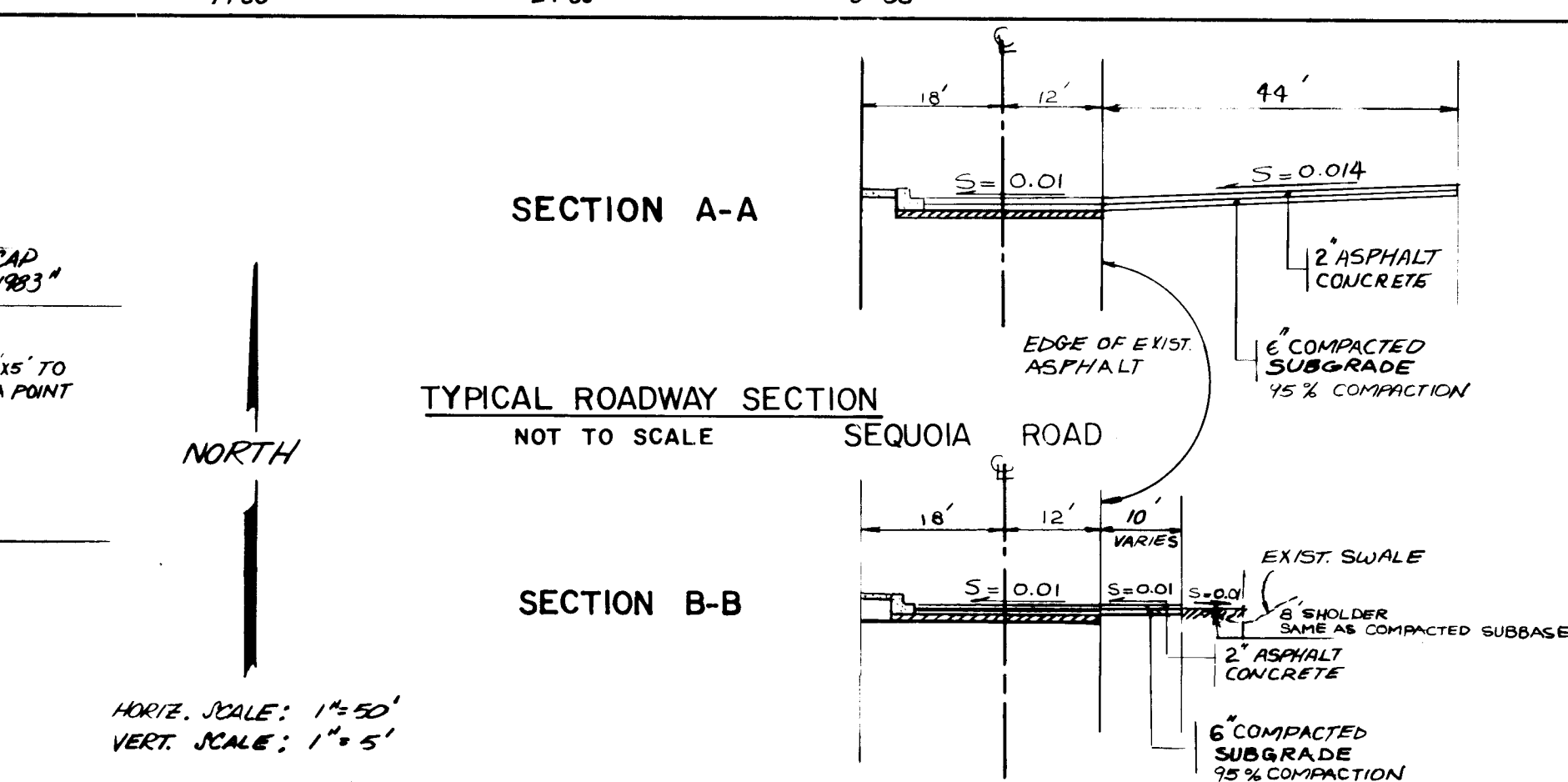
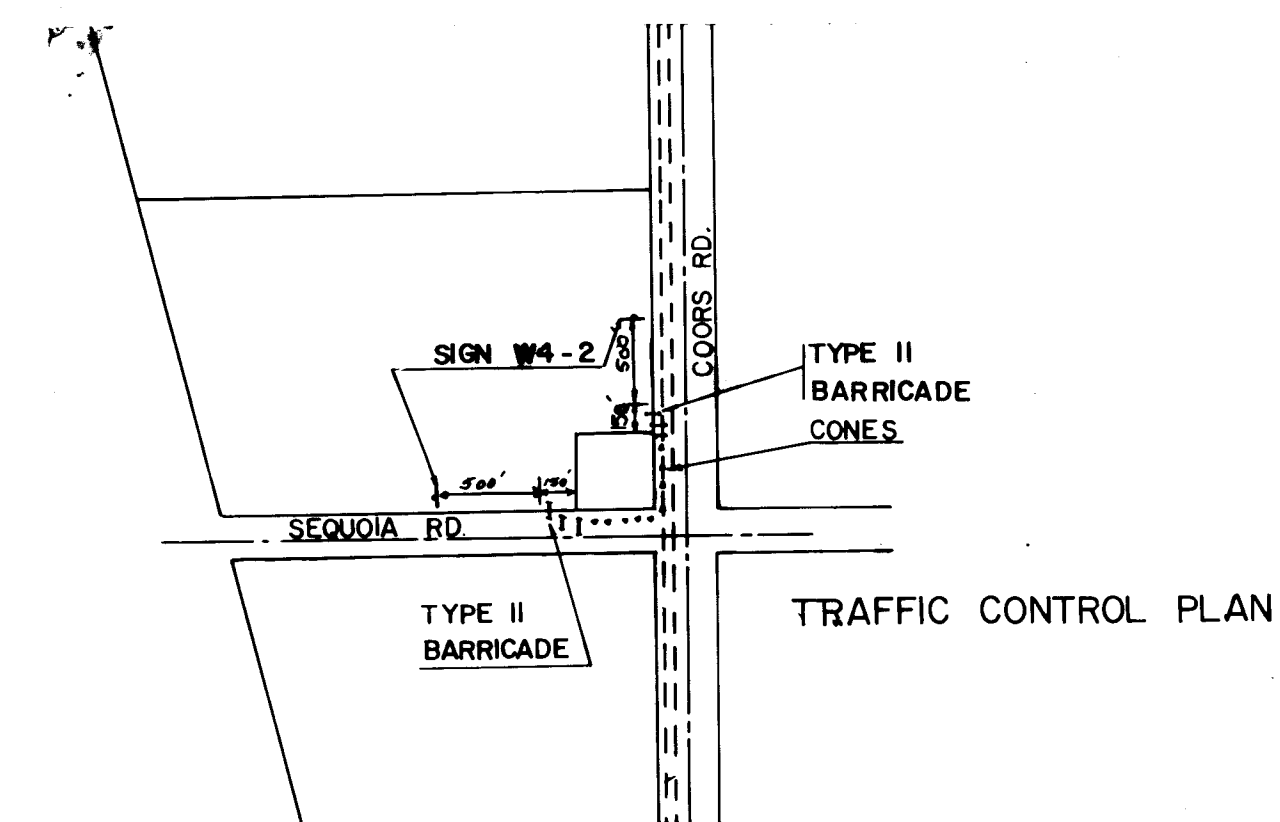
GENERAL NOTES

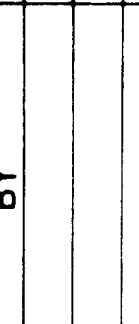
1. All work detailed on these plans to be performed under contract shall, except otherwise stated or provided for herein, be constructed in accordance with the New Mexico Standard Specifications for Public Works Construction - 1979 Edition (referred herein as the Standard Specifications) and the contract documents for Public Works Contract No. 26-2.
2. Two (2) working days prior to any excavation, Contractor must contact line locating service, 765-1234, for location of existing utilities.
3. 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.
4. 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.
5. Contractor shall maintain access to adjacent properties during construction.
6. All gas, electric, telephone lines, cables, and appurtenances encountered during construction that require relocation, shall be done by the responsible utility. Contractor shall be responsible for coordination of all necessary utility adjustments.
7. It will be the Contractor's responsibility to protect and maintain in service all existing utilities.
8. The Contractor will be required to confine his work within the construction limits and/or public right-of-way to preserve existing vegetation and private property. Overnight parking of construction equipment shall not obstruct driveways or designated traffic lanes.
9. A disposal site for all excess excavation material, asphaltic paving, concrete curbs and sidewalks, etc., shall be obtained by the Contractor in compliance with applicable environmental regulations and approved by the Field Engineer. All costs incurred in obtaining a disposal site and haul therefor shall be considered incidental to the project and no separate measurement of payment shall be made.

W.F.M. [Signature]
11/8/85

26 24520185

REV.	SHEETS	CITY ENGR.	DATE	USER DEPT.	DATE	USER DEPT.	DATE
APPROVAL OF REVISIONS							
ENGINEERS SEAL				HALL ENGINEERING COMPANY INC. 337 EUBANK N.E., SUITE 103 ALBUQUERQUE, NEW MEXICO 87123 Phones: (505) 292-1115 & 292-1116		APPROVED FOR CONSTRUCTION	
				PROJECT NUMBER 2452		C.D. [Signature] 9/4/85 SHEET 1 OF 3	



ENGINEER'S SEAL				SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION		
 Richard V. Hall Professional Engineer 7918 5/23/85				FIELD NOTES		T.B.M. EL 5103.99' ± 5" REBAR W/ALLOY CAP STAMPED 1' C/S 510' ABS, LOCATED NEAR THE N.W. CORNER @ THE INTERSECTION OF SEQUOIA AND COORS BLVD NW.		CONTRACTOR <u>PARIZ E.F.H.</u> DRAWN BY _____ CHECKED BY _____ DESIGNED BY _____ DATE _____ REVISIONS _____ DESIGN _____ DRAWN BY <u>PARVIZ EFEKHARI</u> DATE <u>5/22/85</u> CHECKED BY <u>RICHARD HALL</u> DATE <u>5/22/85</u>		
				NO.	BY					DATE
NO. DATE				REMARKS		BY				
				REVISIONS						
				DESIGN						
				DRAWN BY <u>PARVIZ EFEKHARI</u> DATE <u>5/22/85</u>						
				CHECKED BY <u>RICHARD HALL</u> DATE <u>5/22/85</u>						

26 24520285

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE:	WATER AND PAVING PLAN
	UNITED NEW MEXICO BANK

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	7/27/85	Liquid Waste	<i>[Signature]</i>	7/27/85
A.C.E. - Design	<i>[Signature]</i>	7/19/85	Traffic	<i>[Signature]</i>	7/27/85
A.C.E. - Hydrology	<i>[Signature]</i>	7/22/85	Water	<i>[Signature]</i>	7/27/85

DRAWING NO.	2452	MAP NO.	G-11	SHEET	2	OF	3
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DRAINAGE AND GRADING PLAN

UNITED NEW MEXICO
JAN. 1985

Q = 132.65 cfs

OFF SITE FLOW
FROM COORS
WILL PASS
THRU WHEN
POND IS FILLED
BY HEAD PRESSURE
CONTINUE TO SOUTH
AS IT PRESENTLY DOES

BENCHMARK
N.M.S.L.D. brass cap marked "N.M. 448-N3"
located on the west edge of paving of
the West Mesa Bowling Alley parking lot
located on the east side of Coors Rd. N.W.
ELEVATION 5099.53 FEET (M.S.L.D.)

LEGAL DESCRIPTION
Lot A-35-A, Town of Atrisco Grant, City of Albuquerque,
Bernalillo County, New Mexico

LEGEND
- - - Existing Contours
- - - New Contours
+ Existing Spot Elevations
+ New Spot Elevations
+ Concrete
+ Top of Asphalt
+ Top of Curb or Concrete
+ Edge of Asphalt
+ Top of Berm
+ Bottom of Pond
+ Flowline
+ Natural Ground
+ Top of Ground

- I. References
A. City of Albuquerque, Development Process Manual (DPM),
Volume 2, Design Criteria
B. Soil Survey of Bernalillo County and Parts of Sandoval and
Valencia Counties, New Mexico, U.S. Soil Conservation Service
Sheet 20
C. Flood Insurance Rate Map, City of Albuquerque, New Mexico
Panel 21/50

- II. General Information
A. Site Location and Elevation Data
1. Legal Description: Lot A-35-A, Town of Atrisco Grant,
Bernalillo, New Mexico
2. Total Site Area: .5908 ac, 43158 sf
3. City Address:
4. City Bench Mark: NM 448-N3, Elevation 5099.527
5. County Zone Atlas: 3-11-Z
B. Soil Type (Reference B) MWA, Madurez Wink Hydrologic Soils
Group B
C. 6-hour, 100 year rain, $R_6=2.2$, Plate 22.2 D-1
D. Runoff Coefficient ("C" Factor), Plate 22.2 C-1
Undeveloped "C" Factor, Curve B is 0.34
Developed "C" Factor, assume the following values:

Buildings and Concrete Surfaces 1.00
Asphalt 0.90
Landscaping, same as natural soil 0.34

Type of Surface	"C"	Area (S.F.)	C x A
Building	1.00	4006	4006
Concrete	1.00	957	957
Asphalt	0.90	23917	21525
Landscaping	0.34	14278	4854
TOTALS		43158	31342
Weighted "C" Factor	$= \frac{31342}{43158} = .73$		

- E. Time of Concentration-Developed Area
Watershed Length $L = 227$ ft
Watershed Change in Elevation $h = 1.6$ ft
Watershed Slope $S = .0077$ ft/ft
by Kirpich equation $T = .0078 (L^{0.77} / S^{0.385}) = 3.43 < 10$ minutes
 $T_c = 10$ minutes minimum
F. Intensity Plate 22.2 D-1
 $I = R_6 \times 6.84 \times T^{-0.51}$
 $I = 2.2 \times 6.84 \times 10^{-0.51}$
 $I = 4.65$ in/hr
G. Peak Discharge - Rational Method: $Q = CIA$
 $Q = 0.73 \times 4.65 \times 9908 = 3.4$ cfs

- III. Existing Conditions (Undeveloped)
A. "C" Factor = 0.34 Plate 22.2 C-1
B. Time of Concentration
Watershed Length $L = 305$ ft
Watershed Change in Elevation $h = 1.46$ ft
Watershed Slope $S = .005$ ft/ft
by Kirpich Equation $T = .0078 (L^{0.77} / S^{0.385}) = 4.91 < 10$ minutes
 $T_c = 10$ minutes minimum
C. Intensity Plate 22.2 D-2
 $I = R_6 \times 6.84 \times T^{-0.51}$
 $I = 4.65$ in/hr
D. Peak Discharge - Rational Method: $Q = CIA$
 $Q = 0.34 \times 4.65 \times 9908 = 1.57$ cfs

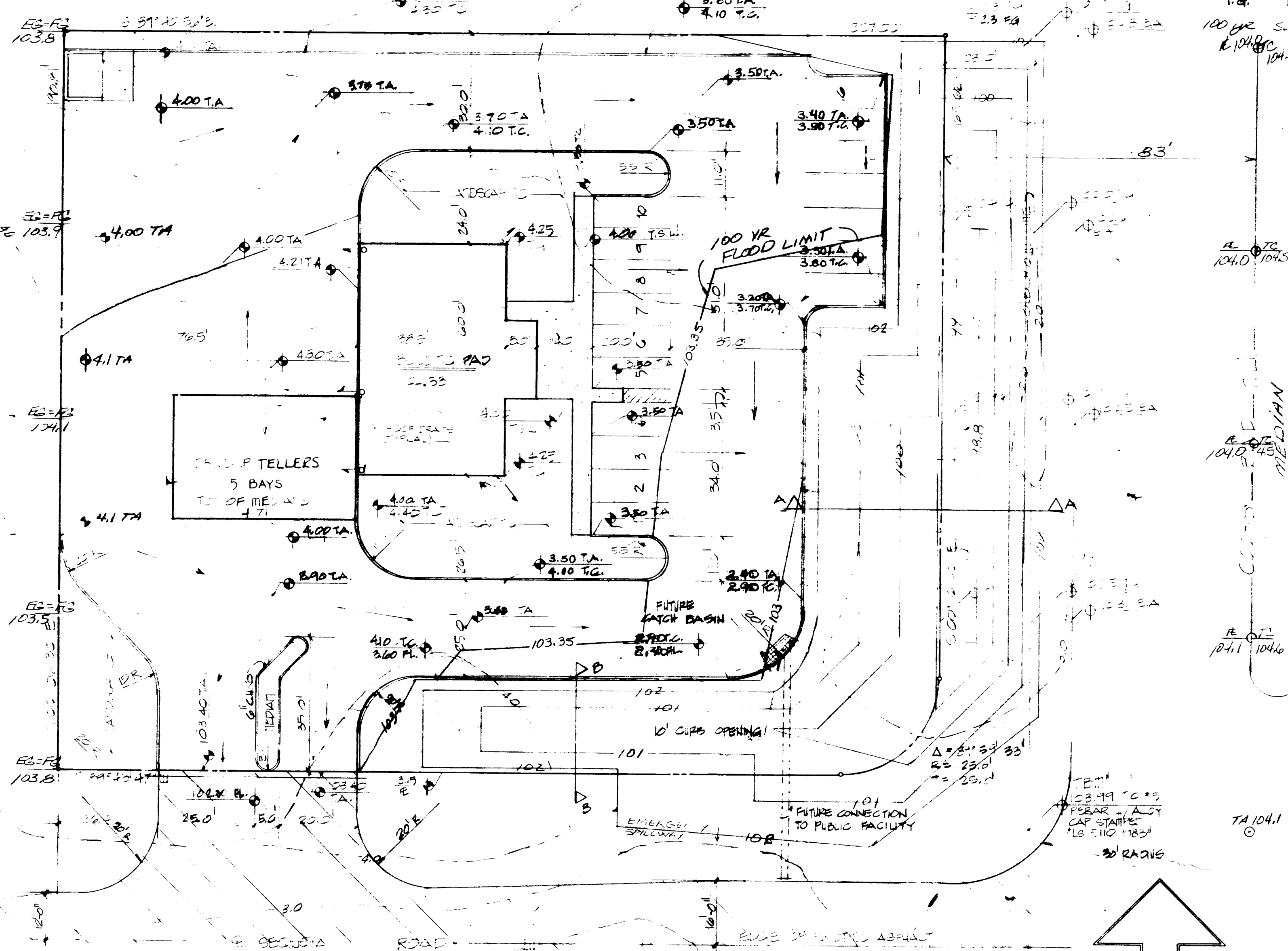
- IV. Pond Calculations (Developed)
Total Volume of Water to be Ponded 262452.0385
 $V = .73 \times \frac{2.2}{12} \times 43158 = 5776$ C.F.
V. Volume of pond being generated within Sequoia St.
Contour 102, 100 year rainfall

Contours	Area(SF)	Volume C.F.
102	12,689	10,400
101	8,110	6,073
100	4,036	2,867
99	1,697	113
98.8	0	0
Total		19,453

It is the owners responsibility to make all arrangements to tie into
the proposed facilities when they become available.

NOTE TO CONTRACTOR:
The contractor shall promptly clean up any material excavated
within the public right-of-way so that the excavated material
is not susceptible to being washed down the street.

OFF SITE FLOW
7.0 CFS



EXISTING 8" STANDARD CURB & GUTTER

EXIST. FIRE HYDRANT
EXIST. SIDEWALK ENDS
EXIST. ENTRANCE

EXISTING EMERGENCY SPILL OVER TO SOUTH
100 YR FLOOD ELEV. = 103.00

SECTION A-A

SECTION B-B

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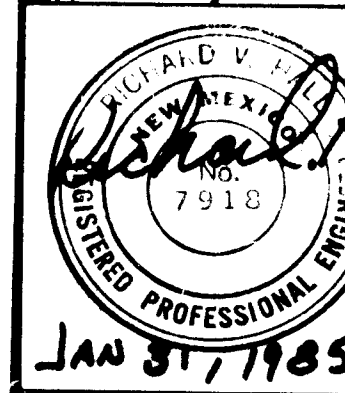
DRAINAGE & GRADING PLAN
FOR
UNITED NEW MEXICO BANK

PROJECT NO:
2452

DATE: 1-30-85
JOB NO: 11

SHEET NO:
OF
3 OF 3

APR 24 1985
APR 18 1985



HALL ENGINEERING COMPANY INC.
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ALBUQUERQUE, NEW MEXICO 87123
Phone: (505) 262-1115 & 262-1116

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GENERAL CONTRACTORS LICENSE NO. 3044
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