

LEGEND

MATERIALS

CONCRETE
RIP-RAP

LINES

SUBDIVISION BOUNDARY
PROPERTY LINE (PLAN)
PROPERTY LINE (SECTION)
CENTERLINE
EASEMENT LINE
MATCH LINE
SECTION CUT LINE

EARTHWORK

CONTOUR LINE
SPOT ELEVATION
PROJECT / PHASE BOUNDARY
SWALE
DIRECTION OF FLOW

MISCELLANEOUS UTILITIES

GAS LINE
UNDERGROUND TELEPHONE
UNDERGROUND ELECTRICAL
STORM DRAIN
STORM DRAIN MANHOLE
STORM DRAIN INLET

SANITARY SEWER

SANITARY SEWER LINE
SANITARY SEWER MANHOLE
SAS SERVICE CONNECTIONS
SAS CAP OR PLUG
ENCASEMENT

WATER

WATER LINE
WATER SERVICE CONNECTIONS
GATE VALVE
HYDRANT
BUTTERFLY VALVE
WATER PRESSURE ZONE BOUNDARY

WATER FITTINGS

CAPS AND PLUGS
ELBOW
CROSS
TEE

MISCELLANEOUS

CHAINLINK FENCE
FIELD FENCE
COMMON YARD WALL
RETAINING WALL
POWER OR TELEPHONE POLE

CONSTRUCTION PLANS

FOR

SAN BERNARDINO AVENUE

JOY PLACE N.E. TO LOUISIANA BLVD. N.E.

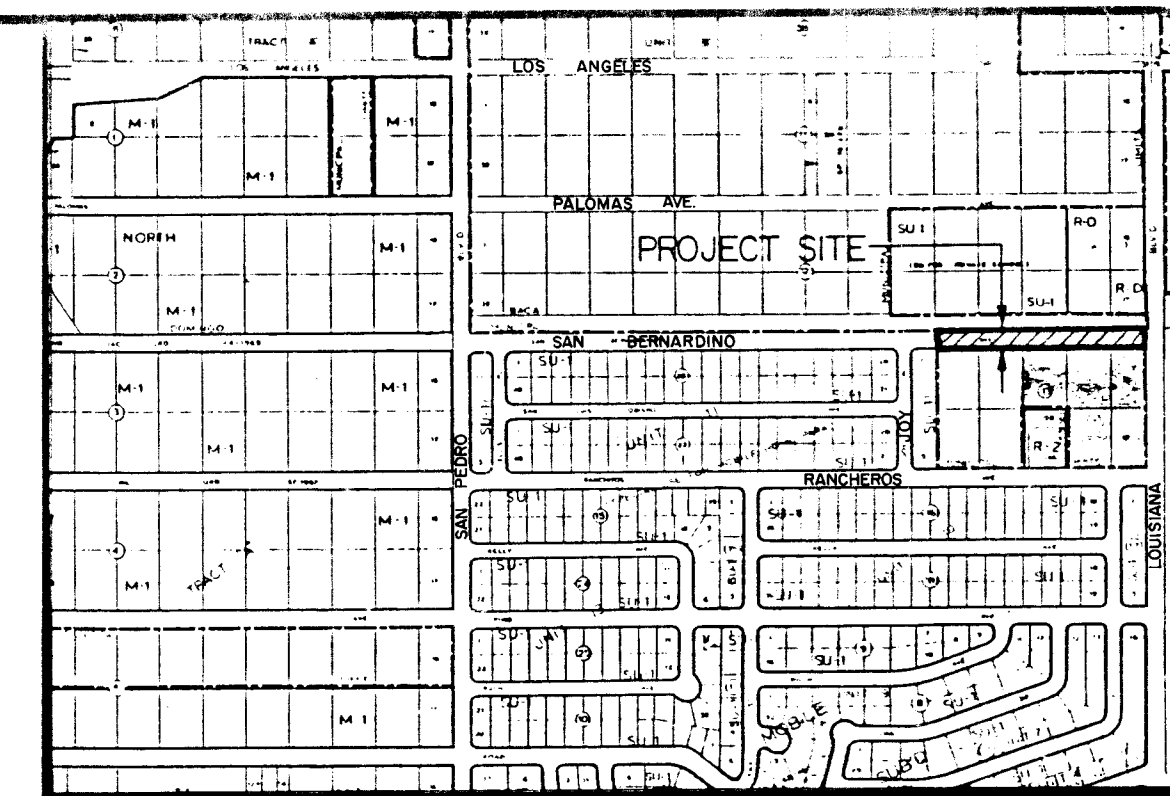
ALBUQUERQUE, NEW MEXICO

FEBRUARY, 1984

SHEET NO.

INDEX OF DRAWINGS

DESCRIPTION
TITLE, LEGEND, GENERAL NOTES, INDEX OF DRAWINGS & VICINITY MAP
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SAN BERNARDINO AVENUE NE
PAVING IMPROVEMENTS PLAN & PROFILE
SAN BERNARDINO AVENUE NE
UTILITY IMPROVEMENTS PLAN & PROFILE
DRAINAGE DETAILS & SECTIONS



VICINITY MAP

D-18

GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1979 EDITION (REFERRED TO HEREIN AS THE STANDARD SPECIFICATIONS) AND THE CONTRACT DOCUMENTS FOR PUBLIC WORKS CONTRACT NO. 84-1.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION 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.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
- 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.
- THE CONTRACTOR MUST SUBMIT A CONSTRUCTION SIGNING AND BARRICADING PLAN TO TRAFFIC ENGINEERING TO RECEIVE A BARRICADING PERMIT PRIOR TO CONSTRUCTION.

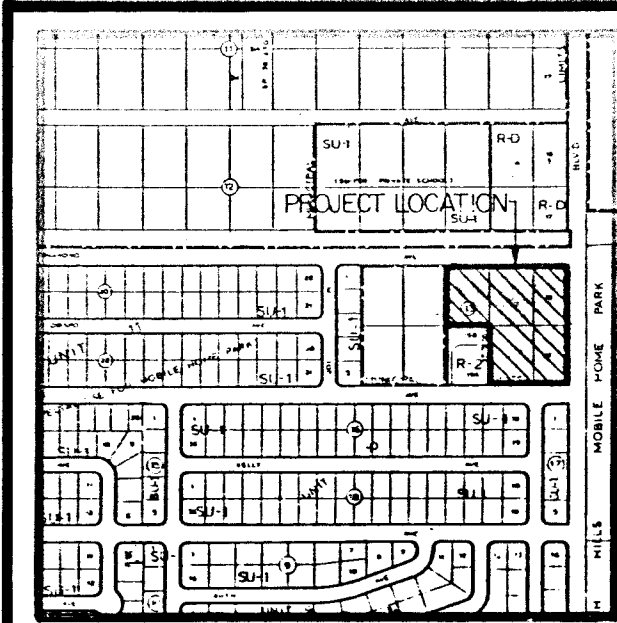
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FOR INFORMATION ONLY

REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
APPROVAL OF REVISIONS							
						APPROVED FOR CONSTRUCTION	
2082				SHEET 1 OF 5		C.E.	

805

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DESCRIPTION

A certain tract of land located within the Corporate Limits of the City of Albuquerque comprising Lots 14 through 18, Block 13, Tract A, Unit A, North Albuquerque Acres, as shown on the plat filed in the Office of the County Clerk of Bernalillo County on March 17, 1937, and being more particularly described as follows:

Beginning at the northeast corner of said parcel being a point at the intersection of the centerlines of Louisiana Boulevard N.E. and San Bernardino Avenue N.E.; thence S 00°00'00" E a distance of 525.00 feet along the centerline of Louisiana Boulevard N.E. to the intersection of the centerlines of Louisiana Boulevard N.E. and Rancho Avenue N.E.; thence S 90°00'00" W a distance of 330.00 feet along the centerline of Rancho Avenue N.E.; thence N 00°00'00" E a distance of 264.00 feet to a point on the centerline of San Bernardino Avenue N.E.; thence N 00°00'00" E a distance of 264.00 feet to a point on the centerline of San Bernardino Avenue N.E.; thence N 90°00'00" E a distance of 495.00 feet along the centerline of San Bernardino Avenue N.E. to the point of beginning and containing 5.0000 acres more or less.

83 37554

SUMMARY PLAT
OF
LOTS 14A, 16A, 17A & 18A
NORTH ALBUQUERQUE ACRES
TRACT A, UNIT A, BLOCK 13
ALBUQUERQUE, NEW MEXICO
NOVEMBER, 1983

State of New Mexico)
County of Bernalillo)
This instrument was filed for record
on
DEC 22 1983
At 1:30 PM, in the presence of the
County Clerk, Clerk & Recorder,
Bernalillo County, New Mexico.

DEDICATION

The undersigned owners of the land shown hereon do hereby consent to the subdivision of said land in the manner shown on this plat and do hereby dedicate all public rights of way, drainage way and utility easements including the right of ingress and egress and the right to trim interfering trees.

LOT 14A
Philippa Rogers
12-8-83
Date

LOT 16A
James Pannasini
12-8-83
Date

LOT 17A & 18A
John T. Mann, Jr.
12-20-83
Date

The foregoing instrument was acknowledged before me this
day of December, 1983.

APPROVAL
Chief of Survey Engineering Division
12/11/83
Date

Engineer
12-20-83
Date

Planning
12/20/83
Date

City Engineer
12/20/83
Date

Public Works
12/20/83
Date

Parks and Recreation
12/20/83
Date

Water
12/20/83
Date

Sanitation
12/20/83
Date

Fire
12/20/83
Date

Police
12/20/83
Date

Mayor
12/20/83
Date

City Clerk
12/20/83
Date

City Attorney
12/20/83
Date

City Manager
12/20/83
Date

City Council
12/20/83
Date

City Board of Directors
12/20/83
Date

City Board of Commissioners
12/20/83
Date

City Board of Supervisors
12/20/83
Date

City Board of Aldermen
12/20/83
Date

City Board of Deputies
12/20/83
Date

City Board of Assistants
12/20/83
Date

City Board of Advisors
12/20/83
Date

City Board of Consultants
12/20/83
Date

City Board of Experts
12/20/83
Date

City Board of Specialists
12/20/83
Date

City Board of Professionals
12/20/83
Date

City Board of Technicians
12/20/83
Date

City Board of Artisans
12/20/83
Date

City Board of Craftsmen
12/20/83
Date

City Board of Laborers
12/20/83
Date

City Board of Farmers
12/20/83
Date

City Board of Merchants
12/20/83
Date

City Board of Traders
12/20/83
Date

City Board of Dealers
12/20/83
Date

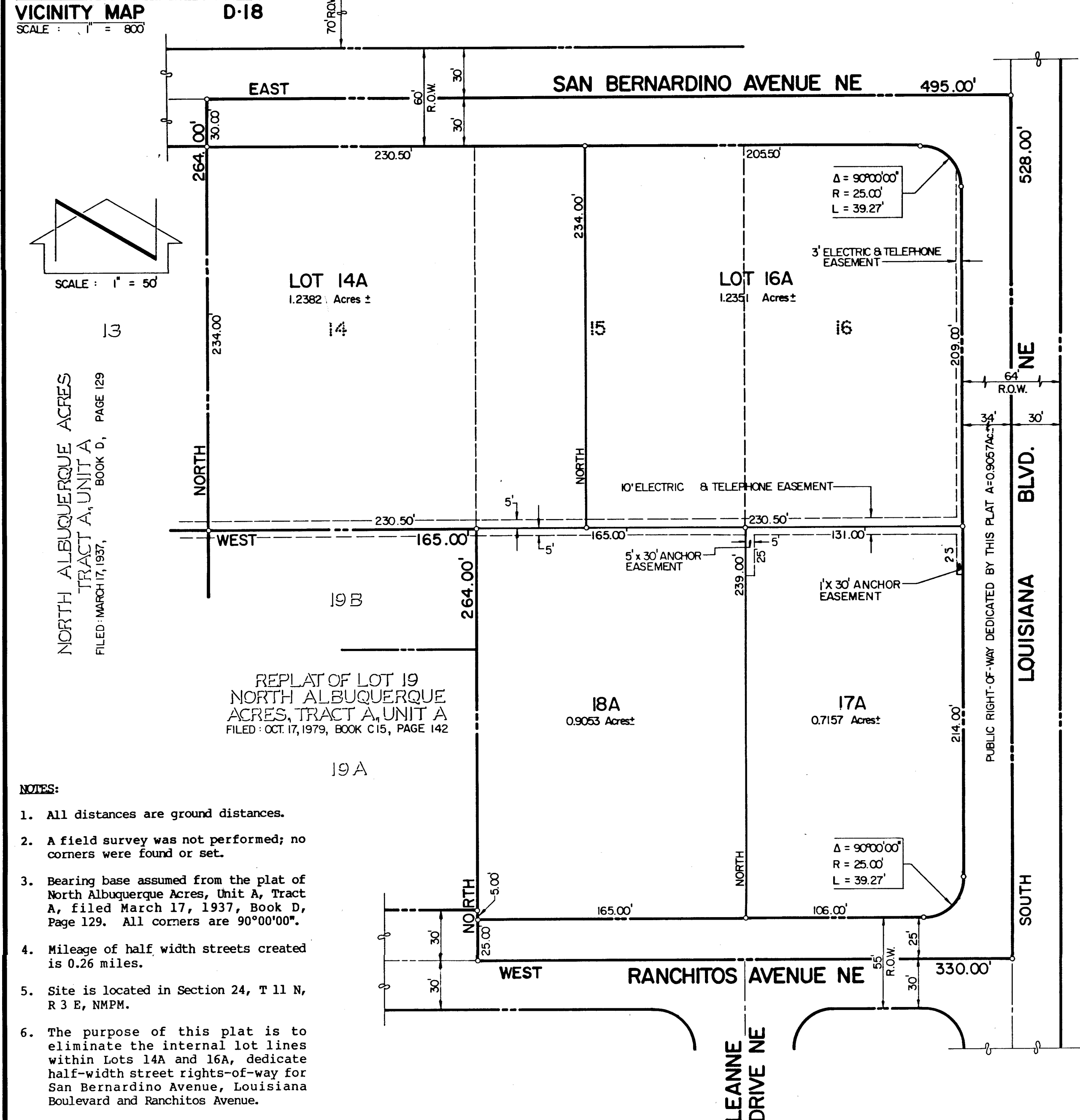
City Board of Vendors
12/20/83
Date

City Board of Suppliers
12/20/83
Date

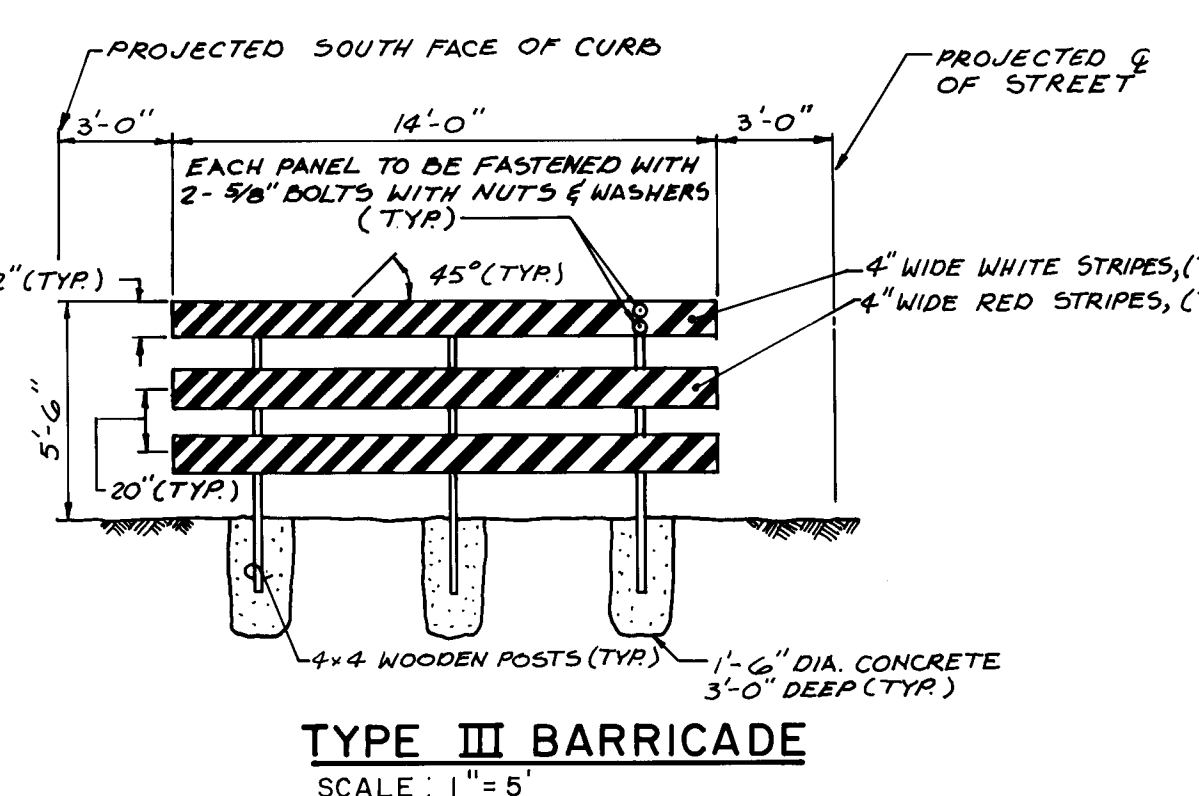
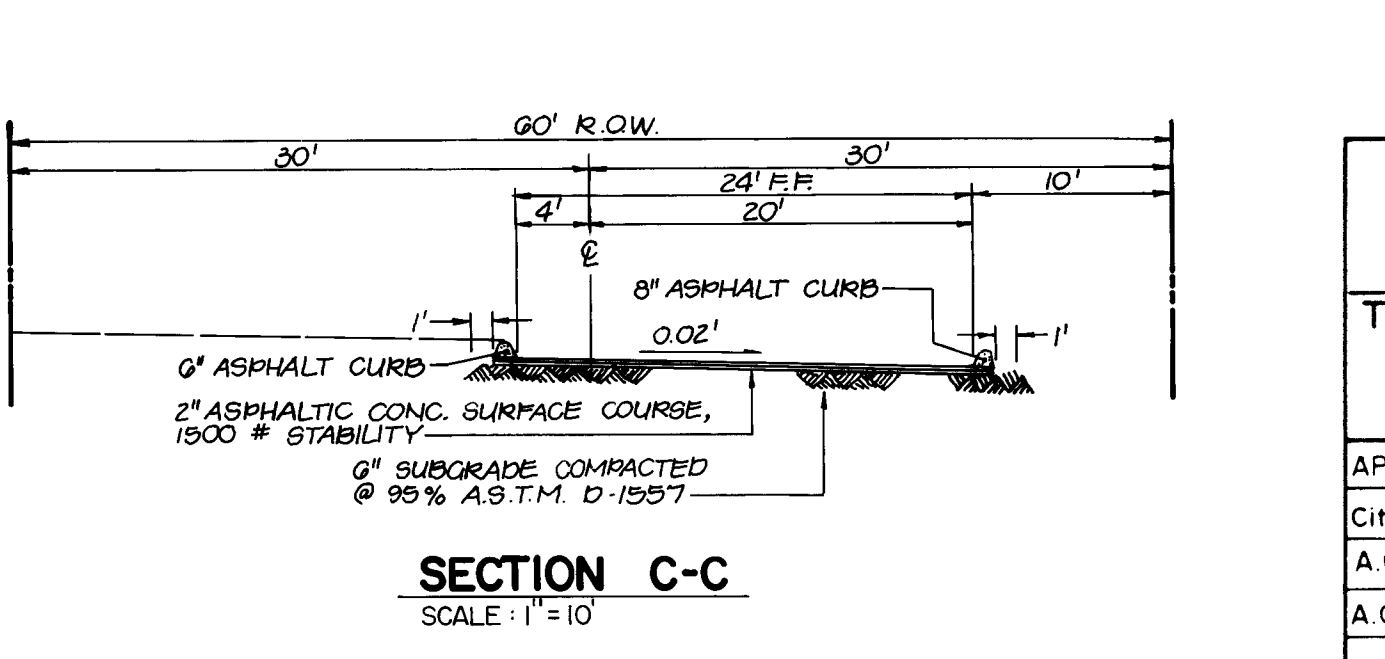
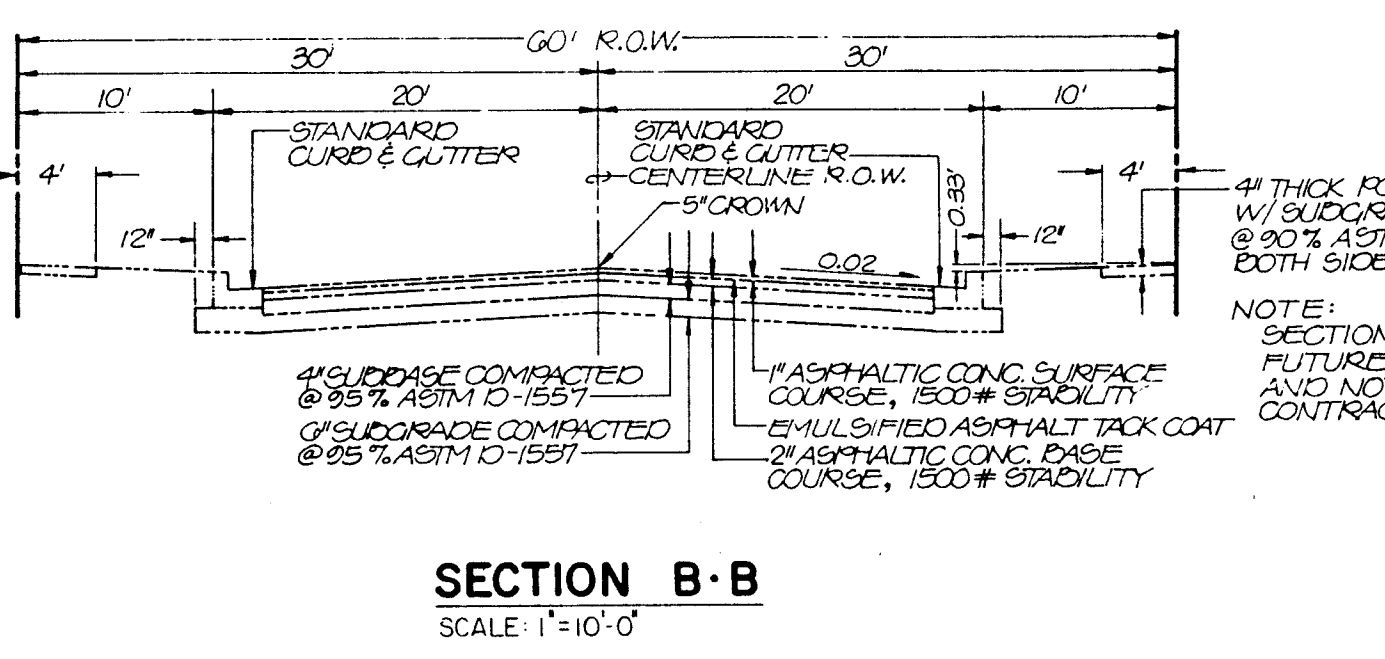
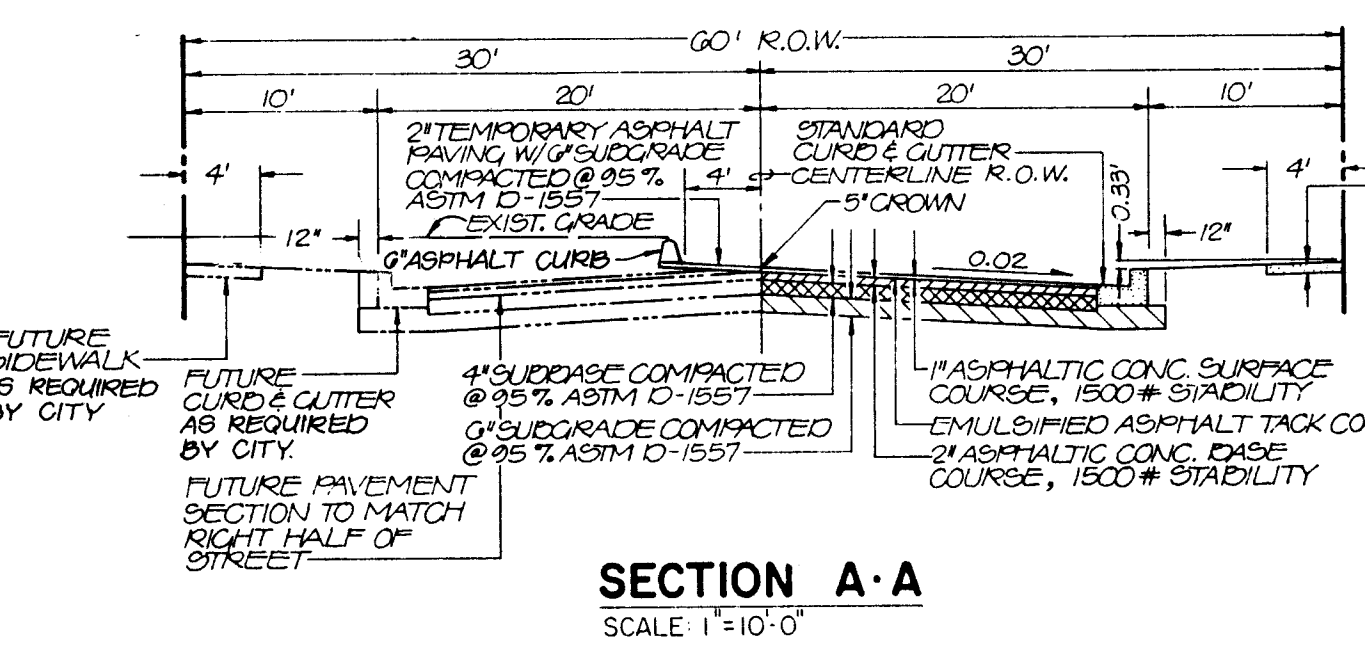
City Board of Distributors
12/20/83
Date

City Board of Wholesalers
12/20/83
Date

City Board of Retailers
12/20/83
Date

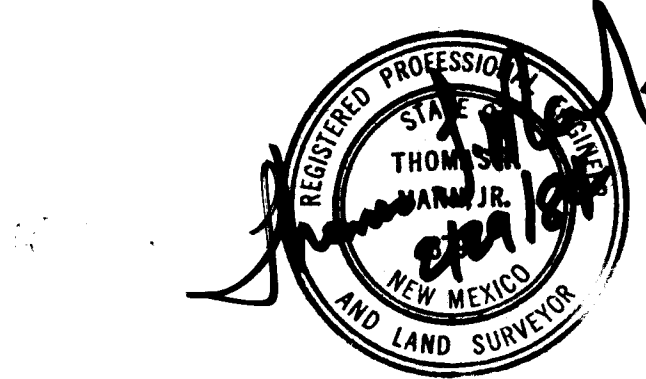


- NOTES:**
- All distances are ground distances.
 - A field survey was not performed; no corners were found or set.
 - Bearing base assumed from the plat of North Albuquerque Acres, Unit A, Tract A, filed March 17, 1937, Book D, Page 129. All corners are 90°00'00".
 - Mileage of half width streets created is 0.26 miles.
 - Site is located in Section 24, T 11 N, R 3 E, NMPN.
 - The purpose of this plat is to eliminate the internal lot lines within Lots 14A and 16A, dedicate half-width street rights-of-way for San Bernardino Avenue, Louisiana Boulevard and Rancho Avenue.



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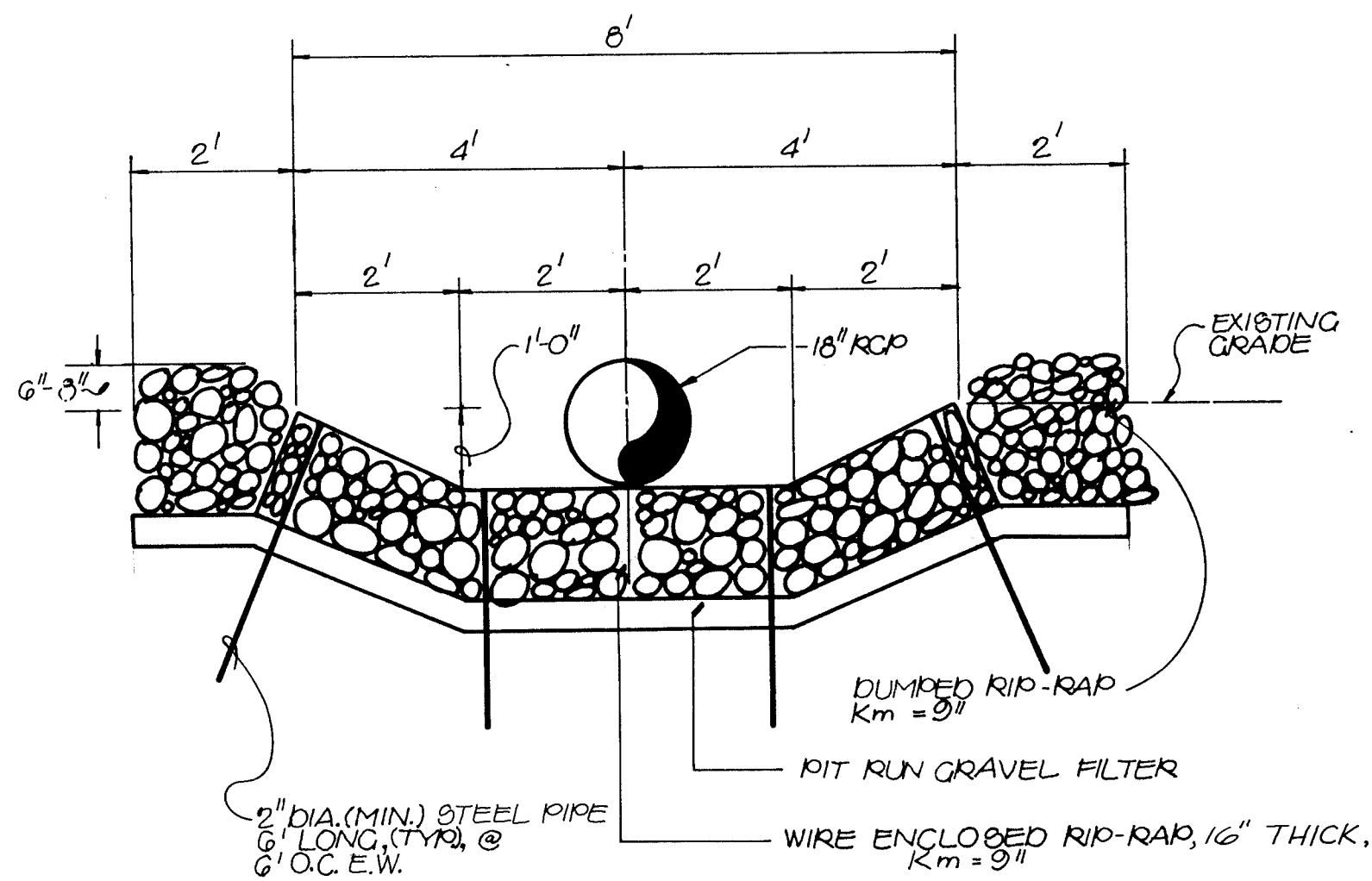
FOR INFORMATION ONLY



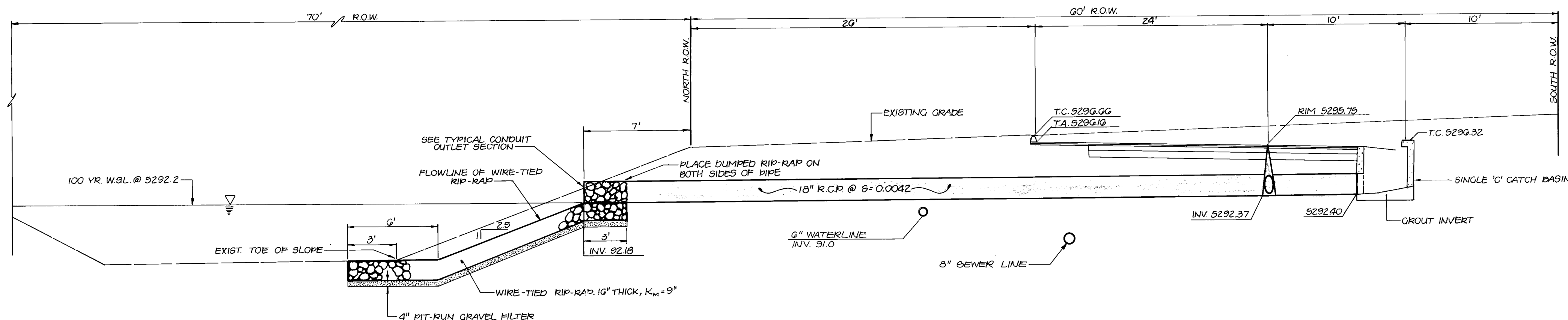
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: SAN BERNARDINO AVENUE N.E. SUMMARY PLAT, STREET SECTIONS & DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	Thomas T. Mann, Jr.	12/15/83	City Engineer	Thomas T. Mann, Jr.	6/9/84
A.C.E. - Design	Thomas T. Mann, Jr.	12/15/83	A.C.E. - Design	Thomas T. Mann, Jr.	5/15/84
A.C.E. - Hydraulic	Thomas T. Mann, Jr.	12/15/83	A.C.E. - Hydraulic	Thomas T. Mann, Jr.	6/5/84
DRAWING NO.	2082		SHEET	2	5

5805

12/2000



TYPICAL CONDUIT OUTLET SECTION
SCALE: 1" = 2'-0"



SECTION D-D
SCALE: 1" = 5'

CATCH BASIN ANALYSIS/SIZING

SAN BERNARDINO

- Discharge from Lot 16A + Street Frontage
 $Q_{100} = 3.7 + 0.5 = 4.2$ cfs
 Based upon DPM Plate 22.3D-2, for $Q = 4.2$ cfs & $s = 0.026$ ft/ft, $D = 0.30$ ft
 Based upon DPM Plate 22.3D-5, for $Q = 3.4$ cfs,
 $Q = 4.2 - 3.4 = .8$ cfs (passes by)
 Install 1- Single 'C' catch basin to west of driveway from Lot 16A
- Discharge from Lot 14A + Street Frontage
 $Q_{100} = 3.7 + 0.5 + 0.8 = 5.0$ cfs
 Based upon DPM Plate 22.3D-2, for $Q = 5$ cfs & $s = 0.026$ ft/ft, $D = 0.31$
 Based upon DPM Plate 22.3D-5, for $D = 0.31$ ft & $s = 0.026$, $Q = 3.5$ cfs
 Based upon DPM Plate 22.3D-6, for $D = 0.31$ ft & $s = 0.026$ ft/ft, $Q = 3.8$ cfs
 Selecting a Single 'C' catch basin, $5.0 - 3.5 = 1.5$ cfs will pass by.
 Selecting a Double 'C' catch basin, $5.0 - 3.8 = 1.2$ cfs will pass by.
 Considering economics & effectiveness of the respective gratings, install 1-single 'C' catch basin to west of driveway from Lot 14A.

Calculation of 100-year WSL in Doming6 Baca Arroyo

From previous work upstream @ Wyoming,

$$Q_{100} = 1800 \text{ cfs} \pm$$

$$\text{Assume } Q_{100} = 1800 \text{ cfs} \pm$$

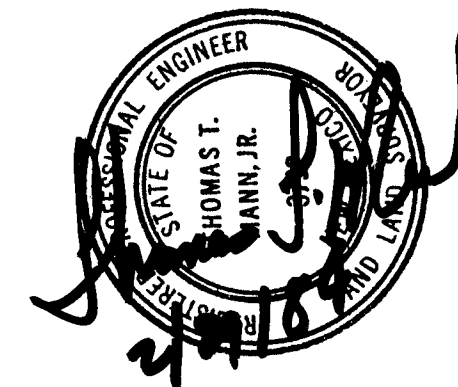
Analysis by Manning Equation program:

$$\begin{aligned} Q &= 1800 \text{ cfs} \\ s &= 0.026 \\ n &= 0.03 \\ w &= \text{Bottom Width} = 20' \\ m &= \text{Sideslope} = 2:1 + 2 \\ @ Q &= 1800 \text{ cfs}, d = 4.0' \\ v &= 16.3 \text{ fps} \end{aligned}$$

HYDRAULIC CALCULATIONS FOR SECTION D-D

- Design Discharge and Depth
 From previous calculations, $Q = 3.5$ cf
 Depth = $5296.22 - 0.67 + 0.31 = 5295.86$
- Inlet Control
 From Bureau of Public Roads "Headwater Depth for Concrete Pipe Culverts with Inlet Control" for $D = 18"$, $HW = 5295.86 - 5292.40 = 3.46'$, and $HW/D = 2.3$,
 $Q_{\text{capacity}} = 14$ cfs.
- Pipe Capacity
 Based upon "Field's Hydraulics Calculator for Gravity Flow in Pipes" for $L = 53'$, $s = 0.0042$, $n = 0.013$ and $D = 18"$, $Q_{\text{capacity}} = 7$ cfs.
- Outlet Control: Not applicable
- Limiting Condition
 Based upon the calculations presented above, the system capacity is 7 cfs.
 The expected flow is 6.9 cfs, therefore this represents an acceptable solution.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		FIELD NOTES	
CONTRACT NO.	DATE	AN A.C.S. BRASS TABLET STAMPED "1-C19 NAA, LOT 32, BLK. 10"	DATE	NO.	BY	DATE	NO.
		SET IN TOP OF A CONC. POST BET FLUSH W/ GROUND THE STATION					
		IS LOCATED 25' EAST OF THE C. OF LOUISIANA BLVD. NE. AND 30'					
		NORTH OF THE C. OF LOS ANGELES DR. NE. IN THE NORTHEAST					
		QUADRANT OF THE INTERSECTION ELEVATION: 5310.195 (5310.195)					
MICRO-FILM INFORMATION							
RECORDED BY	DATE						



26 2082 05 14

FOR INFORMATION ONLY

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: SAN BERNARDINO AVENUE N.E. DRAINAGE DETAILS & SECTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	6/15/84	Liquid Waste	<i>[Signature]</i>	6/15/84
A.C.E. Design	<i>[Signature]</i>	6/15/84	Traffic	<i>[Signature]</i>	6/15/84
A.C.E. Hydrology	<i>[Signature]</i>	6/15/84	Water	<i>[Signature]</i>	6/15/84
DRAWING NO. 2082		MAP NO. D-18		SHEET 5 OF 5	
CITY ENGINEER DATE					

APPROVED FOR
CONSTRUCTION

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