



SUNWEST BANK
NEW SIXTH & LOMAS MOTOR BANK FACILITY

PROJECT
REVISIONS

DATE

SHEET TITLE

GRADING &
DRAINAGE
PLAN

SHEET NO.
C-2



VICINITY MAP J-14-Z
FLOOD HAZARD BDY. MAP / PANEL No. 28

LEGAL DESCRIPTION:

PORTIONS OF BLOCKS 23 & 28 OF THE PERFECTO ARMIJO AND BROTHERS ADDITION.

BENCH MARK DATA:

PROJECT B.M. LOCATED TOP OF CURB AT THE SOUTHEAST CORNER OF DROP INLET GRATE AT 7TH ST. N.W. AND LOMAS BLVD. N.W. ELEV. = 4954.24.

B.M. THE STATION IS A STANDARD ACS ALUMINUM CAP STAMPED "17-J14, 1983" SET FLUSH WITH THE TOP OF CONCRETE LOCATED AT THE INTERSECTION OF 8TH ST. N.W. AND LOMAS BLVD. N.W. IN THE WEST MEDIAN. ELEV. = 4954.83.

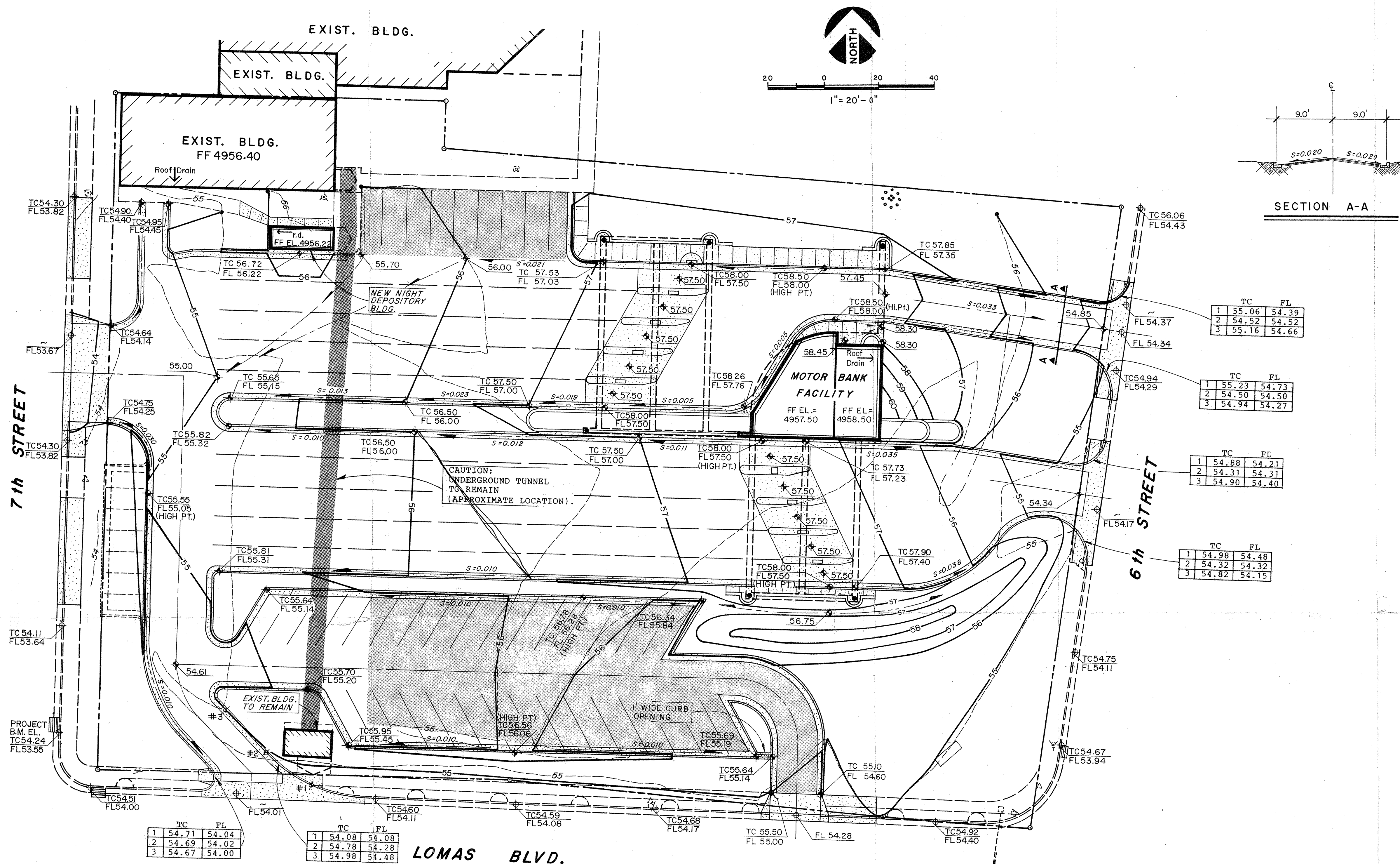
SURVEY DATA:

SURVEY DATA PROVIDED BY SOUTHWEST SURVEYING CO., INC., ALBUQUERQUE, NEW MEXICO, JUNE 30, 1986.

NOTICE TO CONTRACTOR:

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS PUBLIC WORKS CONSTRUCTION, 1985.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTRACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL DURING THE CONSTRUCTION PHASE, INCLUDING ANY PROVISIONS THAT NEED TO BE TAKEN TO DIVERT ANY SEDIMENT FROM ENTERING THE CITY RIGHT-OF-WAY.
- REFERENCES MADE TO STANDARD DRAWINGS REFER TO CITY OF ALBUQUERQUE STANDARD DRAWINGS.
- CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

PERMIT
JUL 15 1986
ALBUQUERQUE
HYDROLOGY SECTION



LOMAS BLVD.

SUNWEST BANK DRIVE-UP FACILITY

LOCATION AND EXISTING CONDITION:

THE SITE IS LOCATED ON THE NORTH SIDE OF LOMAS BOULEVARD BETWEEN 6TH STREET AND 7TH STREET N.W. CONTAINING APPROXIMATELY 1.8148 ACRES. THE SITE IS RELATIVELY LEVEL SLOPING TO THE EAST, WEST, AND SOUTH. THE EXISTING CONDITION OF THE SITE CONSISTS OF A DRIVE-UP FACILITY AND IS 100 PERCENT DEVELOPED.

RUNOFF FROM THE SITE IS INTERCEPTED BY A 24" RCP STORM SEWER (SYSTEM 128) VIA STORM INLETS LOCATED ON THE BOUNDING STREETS. A FUTURE 66" RCP ON LOMAS BOULEVARD FROM BROADWAY BOULEVARD TO 8TH STREET (SYSTEM 128-04B) HAS BEEN PROPOSED BY THE AMDS. THIS SYSTEM WILL LOWER THE HYDRAULIC GRADE LINE OF THE BROADWAY STORM SEWER THUS ELIMINATING FLOODING AT THE INTERSECTION OF LOMAS BOULEVARD AND BROADWAY BOULEVARD. THIS IMPROVEMENT WILL ALSO LOWER THE HYDRAULIC GRADE LINE OF THE 3RD STREET STORM SEWER THUS HELP ELIMINATE FLOODING ON 1ST, 2ND AND 3RD STREET BETWEEN LOMAS BOULEVARD AND ASPEN AVENUE IN CONJUNCTION WITH SYSTEM 128-01.

IF RUNOFF FROM THE SITE BYPASSES THE LOMAS BOULEVARD STORM SEWER SYSTEM THEN IT WILL CONTINUE TO SHEET FLOW WEST ON LOMAS BOULEVARD TO CENTRAL AVENUE UNTIL IT IS INTERCEPTED BY THE RIO GRANDE RIVER.

PROPOSED CONDITION:

PROPOSED DEVELOPMENT OF THE SITE INCLUDES A BUILDING WITH ASSOCIATED DRIVE-UP LANES, PARKING, AND LANDSCAPING. RUNOFF FROM THE SITE WILL BE ALLOWED TO CONTINUE TO FREE DISCHARGE TO THE EAST, WEST, AND SOUTH BOUNDING STREETS BECAUSE IT IS IN AN AREA THAT IS FULLY DEVELOPED AND WILL NOT SIGNIFICANTLY EFFECT THE DOWNSTREAM RUNOFF.

CALCULATIONS:

Area = 1.8148 acres
I = 2.2 in./hr. Plate 22.2 D-2
6-hour, 100-year rainfall = 2.2 in. Plate 22.2 D-1
i = (2.2)(2.2) = 4.84 in./hr.

EXISTING ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C" X A	COMPOSITE "C" = C X A / A
Streets, Drives, Walks	0.95	0.95	0.90	
Roofs	0.90	0.17	0.15	
Lawns & Landscaping	0.25	0.69	0.17	
Undeveloped	0.40	-	-	
TOTAL			1.81	0.67

Q(100) = (0.67)(4.84)(1.8148) = 5.89 cfs
Q(10) = (0.657)(5.89) = 3.87 cfs
CN = 80 Plate 22.2 C-2
Direct Runoff = 0.70 in. Plate 22.2 C-4
V(100) = (0.70)(1.8148)(43560)/12 = 4611 cu. ft.
V(10) = (0.657)(4611) = 3030 cu. ft.

PROPOSED ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C" X A	COMPOSITE "C" = C X A / A
Streets, Drives, Walks	0.95	1.03	0.98	
Roofs	0.90	0.22	0.20	
Lawns & Landscaping	0.25	0.56	0.14	
Undeveloped	0.40	-	-	
TOTAL			1.81	0.73

Q(100) = (0.73)(4.84)(1.8148) = 6.41 cfs
Q(10) = (0.657)(6.41) = 4.21 cfs
CN = 82 Plate 22.2 C-3
Direct Runoff = 0.78 in. Plate 22.2 C-4
V(100) = (0.78)(1.8148)(43560)/12 = 5118 cu. ft.
V(10) = (0.657)(5118) = 3372 cu. ft.

LEGEND:

PROPERTY LINE	---
BUILDING (EXIST.)	=====
BUILDING (NEW)	=====
CURB & GUTTER (EXIST.)	=====
CURB & GUTTER (NEW)	=====
CURB & GUTTER (FUTURE)	=====
CONCRETE (EXIST.)	=====
CONCRETE (NEW)	=====
ASPHALT (EXIST.)	=====
SPOT ELEVATION (EXIST.)	⊕
SPOT ELEVATION (NEW)	⊕
CONTOUR (EXIST.)	---60---
CONTOUR (NEW)	---60---