

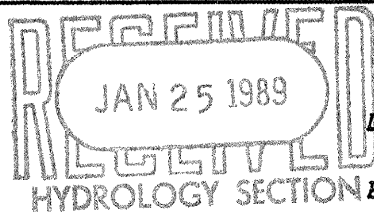
DRAINAGE INFORMATION SHEET

PROJECT TITLE: REPAIR SHOP ZONE ATLAS/DRNG. FILE #: K-19/D 93LEGAL DESCRIPTION: Lots 46, 47, and 48, Block 8, Mesa Verde AdditionCITY ADDRESS: 125 Wyoming Blvd. N.E.ENGINEERING FIRM: Lovelady & Associates CONTACT: Frank LoveladyADDRESS: 7408 Morrow Ave. NE 87110 PHONE: 883-7973OWNER: Nasser Alakani CONTACT: Nasser AlakaniADDRESS 1118 Park Ave. SW PHONE: 242-1859ARCHITECT: Rick Bennett CONTACT: Rick BennettADDRESS: 1118 park Ave. SW PHONE: 242-1859SURVEYOR: Southwest Surveying Company, Inc. CONTACT: Dan GraneyADDRESS: 333 Lomas Blvd. NE PHONE: 247-4444

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

☒ YES☐ NO☒ COPY OF CONFERENCE RECAP
SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJECT NO. _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT☒ DRAINAGE PLAN☐ CONCEPTUAL GRADING & DRAIN. PLAN☐ GRADING PLAN☐ EROSION CONTROL PLAN☐ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL☐ PRELIMINARY PLAT APPROVAL☐ SITE DEVELOPMENT PLAN APPROVAL☐ FINAL PLAT APPROVAL☒ BUILDING PERMIT APPROVAL☐ FOUNDATION PERMIT APPROVAL☐ CERTIFICATE OF OCCUPANCY APPROVAL☐ ROUGH GRADING PERMIT APPROVALDATE SUBMITTED: January 25, 1989☐ GRADING/PAVING PERMIT APPROVALBY: Frank D. Lovelady
Frank D. Lovelady, P.E.

OTHER _____ (SPECIFY)

FILE COPY



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

KEN SCHULTZ
MAYOR

CLARENCE V. LITHGOW
CHIEF
ADMINISTRATIVE OFFICER

DAN WEAKS
DEPUTY CAO
PUBLIC SERVICES

FRED E. MONDRAGON
DEPUTY CAO
DEVELOPMENT & ENTERPRISE SERVICES

January 27, 1989

Frank Lovelady, P.E.
Lovelady & Associates
7408 Morrow, NE
Albuquerque, New Mexico 87110

RE: DRAINAGE PLAN FOR REPAIR SHOP
(K-19/D93) ENGINEER'S STAMP DATED JANUARY 23, 1989

Dear Mr. Lovelady:

Based on the information provided on your submittal of January 25, 1989, the above referenced plan is approved for Building Permit.

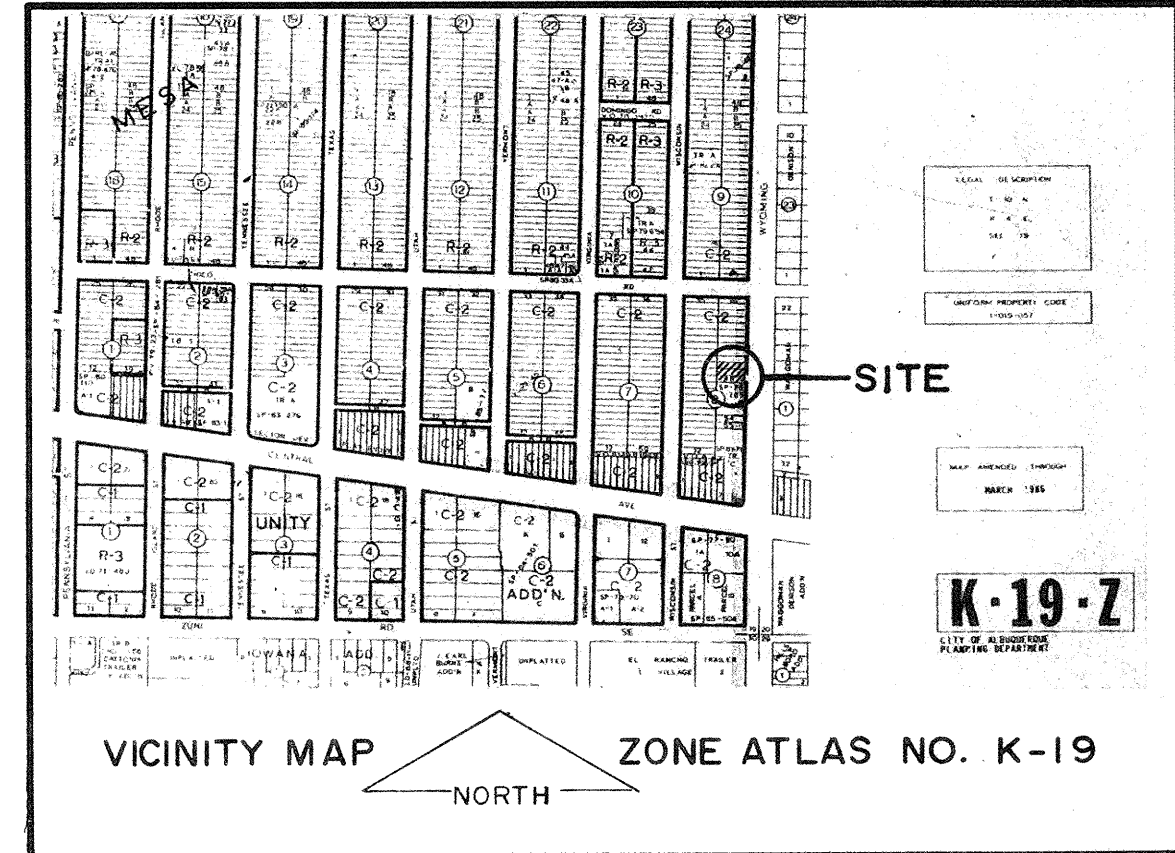
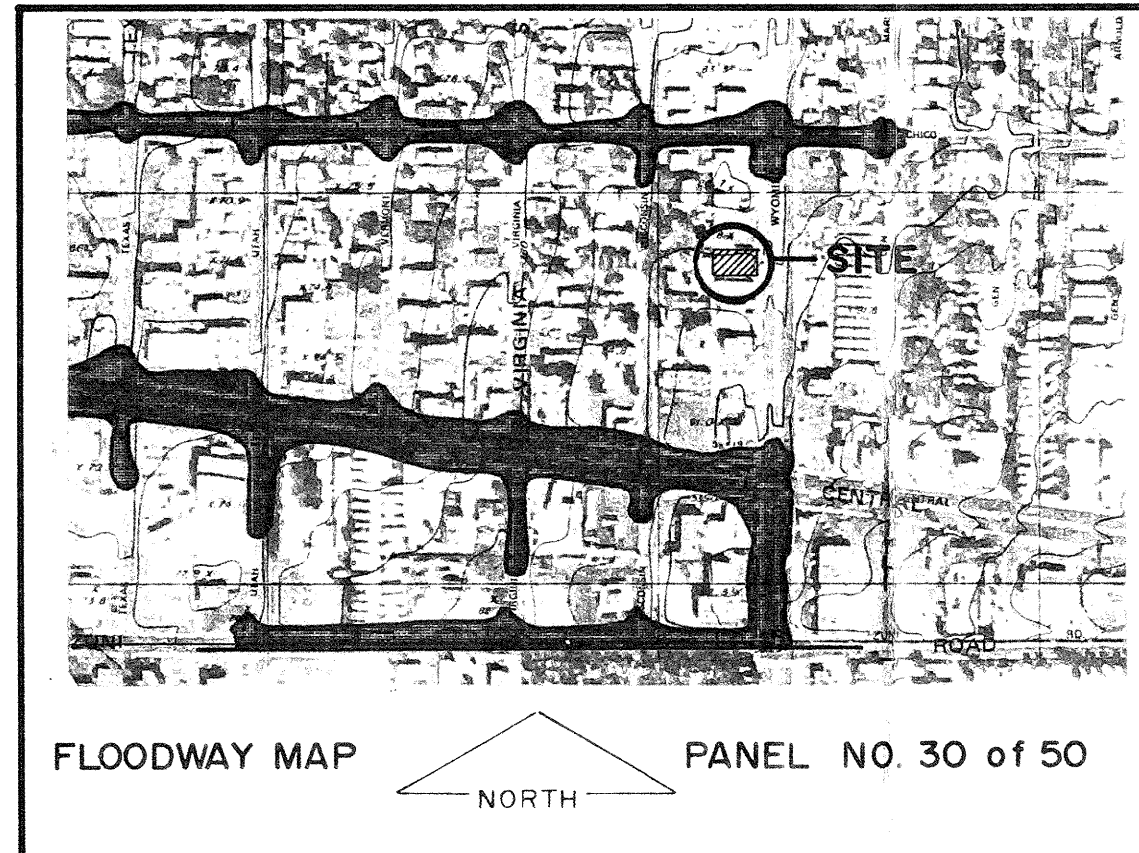
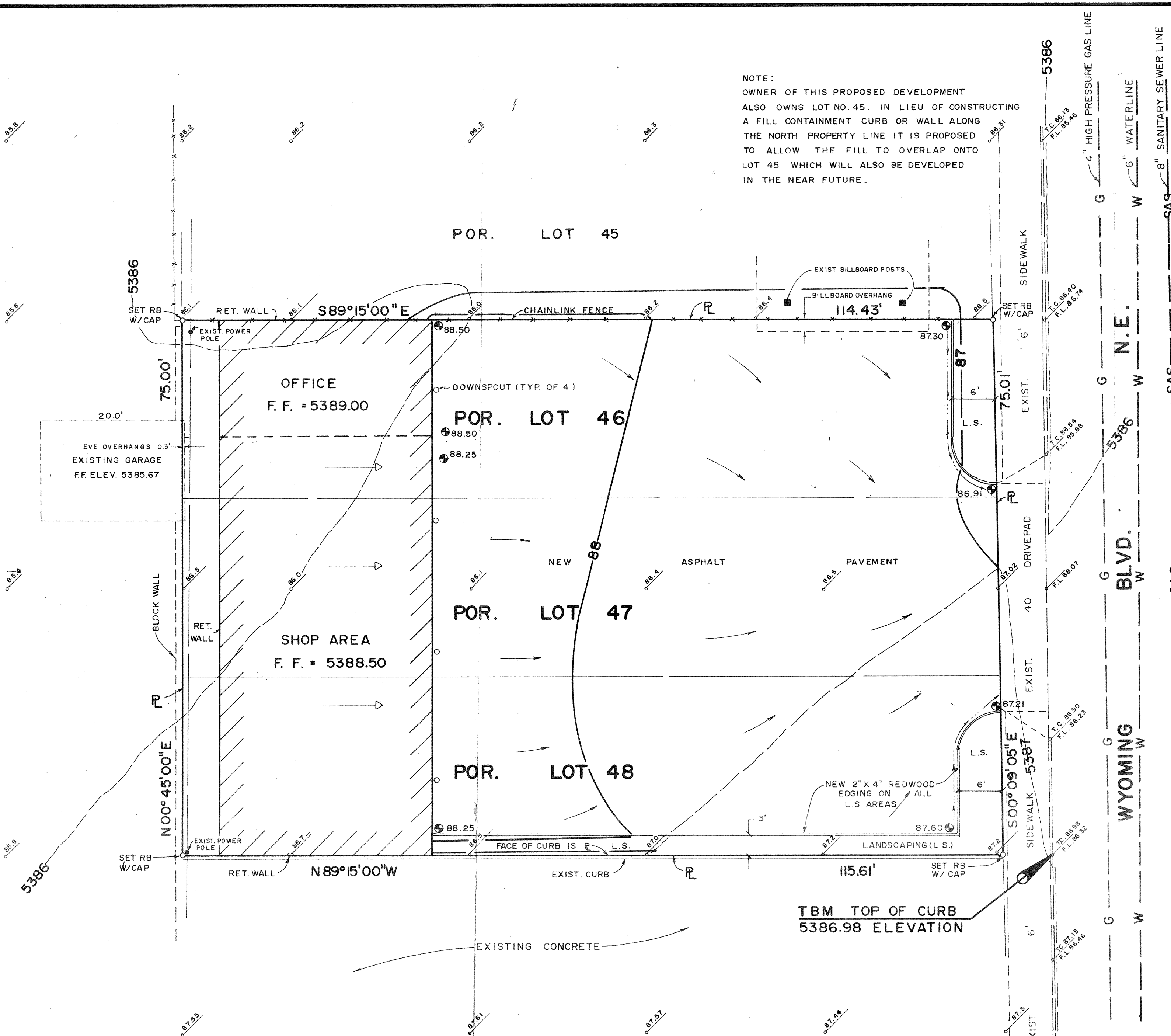
Please attach a copy of this plan to the construction sets prior to sign-off by Hydrology.

If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,


Bernie J. Montoya, C.E.
Engineering Assistant

BJM/bsj
(WP+1008)



SCALE 1" = 10'

PRE-DESIGN CONFERENCE FINDINGS:

- DRAINAGE PLAN SUBMITTAL PER D.P.M. CRITERIA REQUIRED PRIOR TO BUILDING PERMIT RELEASE.
- EXISTING STORM SEWER SYSTEMS AT WYOMING AND CHICO, AND CENTRAL AND UTAH.
- SITE NOT LOCATED WITHIN A DESIGNATED FLOOD HAZARD ZONE BUT DOES CONTRIBUTE TO DOWNSTREAM FLOODING. DOWNSTREAM ANALYSIS REQUIRED FOR FREE DISCHARGE UNLESS IT CAN BE DEMONSTRATED THAT THE INCREASE IN RUN-OFF IS MINIMAL.
- IF PROPOSED BUILDING DOES NOT STRADDLE THE EXISTING PROPERTY LINES THEN WE WILL NEED A REPLAT OR AN EASEMENT TO COMPENSATE FOR CROSS LOT DRAINAGE.

DRAINAGE COMMENTS:

- THE SITE DOES NOT LIE WITHIN OR ADJACENT TO A DESIGNATED FLOOD HAZARD AREA. RUNOFF FROM THE DEVELOPED SITE WILL FLOW NORTH IN WYOMING BLVD. THERE IS A FLOOD ZONE IN CHICO ROAD. THERE IS A STORM SEWER IN CHICO. THE STATE FAIRGROUNDS DETENTION FACILITIES THAT WERE RECENTLY CONSTRUCTED ALLEVIATE FLOODING ON LOUISIANA. THE INCREASED RUNOFF RESULTING FROM THE DEVELOPMENT OF THIS SITE IS LESS THAN 1.5 CFS AND IS MINIMAL.
- THE SITE IS AN "INFILL" SITE.
- THERE IS NO OFF-SITE FLOW.

BENCH MARK:

A.C.S. STATION 6-K20(R) LOCATED 5.8 MILES EAST FROM DOWNTOWN ALBUQUERQUE AT THE INTERSECTION OF CENTRAL AVENUE AND WYOMING BOULEVARD IN THE S.W. QUADRANT OF THE INTERSECTION. STATION IS 53.0 FT. WEST OF CENTERLINE ON WYOMING BLVD. AND 44.7 FT. SOUTH OF CENTERLINE ON CENTRAL AVENUE. STATION IS A STANDARD A.C.S. BRASS DISK SET IN THE CURB AND STAMPED "6-K20(R) 174 ACS". THE ELEVATION OF THE SITE IS 5390.694 FEET.

TEMPORARY BENCH MARK IS LOCATED AT THE TOP OF CURB ON WYOMING BLVD. DIRECTLY EVEN WITH THE S.E. CORNER OF THE SITE. ELEVATION 5386.98 FEET.

LEGAL DESCRIPTION:

LOT NUMBERED FORTY-SIX (46), FORTY-SEVEN (47), AND FORTY-EIGHT (48) IN BLOCK NUMBERED EIGHT (8) OF THE MESA VERDE ADDITION TO THE CITY OF ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE MAP OF SAID ADDITION FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON NOVEMBER 17, 1939, EXCEPTING THEREFROM THAT EASTERLY PORTION IN USE AS THE RIGHT-OF-WAY OF WYOMING BLVD., NE.

EROSION CONTROL PLAN:

DURING CONSTRUCTION OF THE FACILITIES SHOWN ON THIS PLAN, ALL RUNOFF FROM THE SITE SHALL BE CONTAINED IN PONDS, DIKES OR OTHER SUITABLE CONTAINMENT FACILITIES CAPABLE OF CONTAINING THE 10-YEAR UNDEVELOPED RUNOFF VOLUME WHICH IS 0.637 X 100-YEAR VOLUME.

DRAINAGE CALCULATIONS

SOIL INFORMATION: (REFER TO SCS SOIL SURVEY OF BERNALILLO COUNTY.)
SOIL IS MVA, HYDROLOGIC SOIL GROUP "B".

RAINFALL, 100-YEAR, 6-HOUR: (REFER TO D.P.M., PLATE 22.2 D-1)
 $R_p = 2.35$ INCHES

TIME OF CONCENTRATION: (REFER TO D.P.M. SECTION 22.2, PAGE 3)
TEN (10) MINUTES, MINIMUM TIME OF CONCENTRATION.

RAINFALL INTENSITY: (REFER TO PLATE 22.2 D-2)
 $I = R_p \times 6.84 \times T_c^{-0.51} = 2.35 \times 6.84 \times (10)^{-0.51} = 4.97$ INCHES PER HOUR.

CURVE NUMBERS: (REFER TO D.P.M. PLATE 22.2 C-2)

	CN	EXISTING AREA	NEW AREA
EXISTING PAVEMENT	70	8626	375
BUILDINGS AND PAVEMENT	98	-	8026
LANDSCAPING	61	-	214
UNPAVED GRAVEL	85	-	-
UNPAVED DIRT	82	-	-
TOTAL AREAS		8626	8626

WEIGHTED CURVE NUMBER (CN_w):
EXISTING $CN_w = 70$ DEVELOPED $CN_w = 96$

DIRECT RUNOFF: (REFER TO D.P.M. PLATE 22.2 C-4)
EXISTING $Q_p = 0.40$ DEVELOPED $Q_p = 1.90$

RUNOFF COEFFICIENTS: (REFER TO "NOTICE OF EMERGENCY RULE", CITY OF ALBUQUERQUE, JANUARY 14, 1980).

	"C"	EXISTING AREA	NEW AREA
UNDEVELOPED	0.40	8626	375
LAWNS AND LANDSCAPING	0.25	-	214
ROOFS	0.90	-	214
STREETS, DRIVES, WALKS	0.90	-	214
TOTAL AREAS		8626	8626

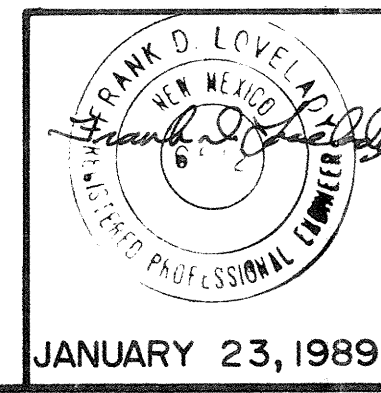
WEIGHTED "C" FACTORS: EXISTING "C" = 0.40 DEVELOPED "C" = 0.90

EXISTING CONDITIONS:
RUNOFF BY RATIONAL EQUATION, $Q = CIA$
 $Q = 0.40 \times 4.97 \times 0.198 = 0.39$ CFS
VOLUME BY SCS METHOD, $V = A(C_p/12)$, WHERE A = AREA IN SQUARE FEET.
 $V = 8626 (0.40/12) = 288$ CF

DEVELOPED CONDITIONS:
 $Q = 1.90 \times 4.97 \times 0.198 = 1.87$ CFS
 $V = 8626 (1.90/12) = 1366$ CF

LEGEND:

EXISTING	NEW	DESCRIPTION
---	---	CONTOUR LINE
•	•	SPOT ELEVATION
---	---	PROPERTY LINE
•	•	POWER POLE
---	---	SHEET FLOW
---	---	ROOF FLOW
---	---	TOP OF CURB
---	---	TOP OF ASPHALT
---	---	GAS LINE
---	---	WATER LINE
---	---	SANITARY SEWER LINE



GRADING AND DRAINAGE PLAN
REPAIR SHOP
125 WYOMING BLVD. N.E.
ALBUQUERQUE, NEW MEXICO

RECEIVED
JAN 25 1989
HYDROLOGY SECTION