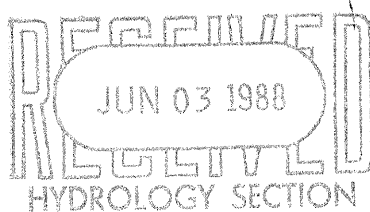


## DRAINAGE INFORMATION SHEET

PROJECT TITLE: "TOOLS-R-US" ZONE ATLAS/DRNG. FILE #: K19/D91  
LEGAL DESCRIPTION: LOT "K", BLK. TWO (2), B.M. MOORE ADDITION  
CITY ADDRESS: 7710 CENTRAL AVE. SE, CITY  
ENGINEERING FIRM: LEVI J. VALDEZ  
RODRIGUEZ & ASSOCIATES CONTACT: LEVI J. VALDEZ  
GEORGE RODRIGUEZ  
ADDRESS: 122 WASHINGTON SE PHONE: 766-3830  
OWNER: SAM SALOME CONTACT: SAM SALOME  
ADDRESS: 4017 THAXTON SE PHONE: 265-4017  
ARCHITECT: LEVI J. VALDEZ  
RODRIGUEZ & ASSOCIATES CONTACT: LEVI J. VALDEZ  
GEORGE RODRIGUEZ  
ADDRESS: 122 WASHINGTON SE PHONE: 266-3830  
SURVEYOR: JOHN B. TORRES CONTACT: JOHN B. TORRES  
RODRIGUEZ & ASSOCIATES PHONE: 266-3830  
ADDRESS: 122 WASHINGTON S.E.  
CONTRACTOR: (OWNER) SAM SALOME CONTACT: SAM SALOME  
ADDRESS: 4017 THAXTON SE PHONE: 265-4017

## PRE-DESIGN MEETING:

☒ YES☐ NO☐ COPY OF CONFERENCE RECAP  
SHEET PROVIDED

DRB NO. \_\_\_\_\_

EPC NO. \_\_\_\_\_

PROJ. NO. \_\_\_\_\_

## TYPE OF SUBMITTAL:

☒ DRAINAGE REPORT☒ DRAINAGE PLAN☐ CONCEPTUAL GRADING & DRAINAGE 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 APPROVAL☐ GRADING/PAVING PERMIT APPROVAL☐ OTHER \_\_\_\_\_ (SPECIFY)DATE SUBMITTED: JUNE 3, 1988BY: GEORGE T. RODRIGUEZ



# 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

**RAY R. BACA**  
DEPUTY CAO  
PUBLIC SAFETY

June 1, 1989

Arsenio Martinez  
Rodriguez & Associates  
2500 Garfield, SE Suite 5  
Albuquerque, New Mexico 87108

RE: DRAINAGE PLAN FOR PHASE II - 7710 CENTRAL AVENUE, SE  
(K-19/D91) ENGINEER'S STAMP DATED MAY 24, 1989

Dear Mr. Martinez:

Based on the information provided on your submittal of May 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.

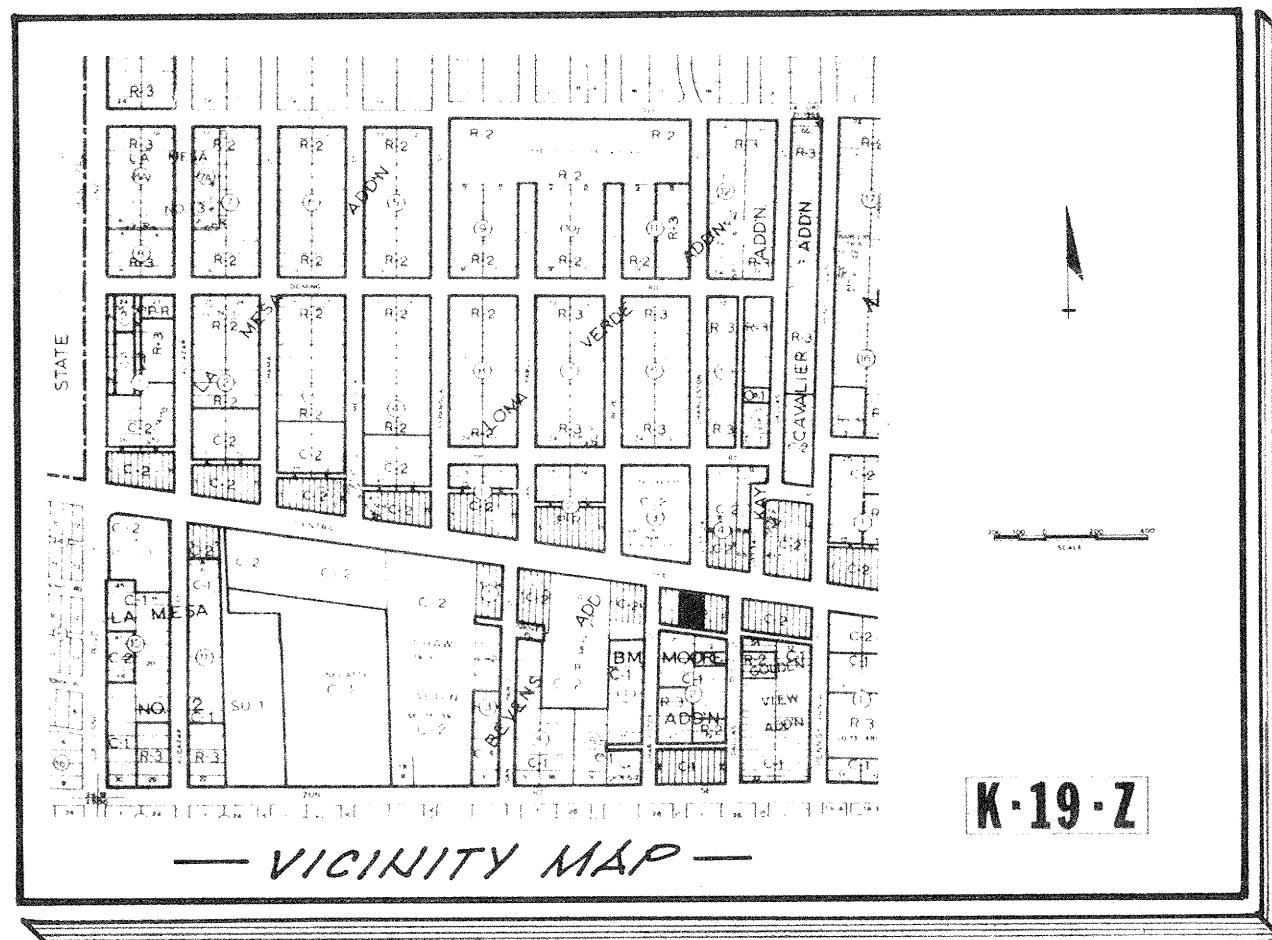
If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

*Bernie J. Montoya*  
Bernie J. Montoya, C.E.  
Engineering Assistant

BJM/bsj  
(WP+745)





#### CONSTRUCTION NOTES:

- 1.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 765-1234 FOR LOCATION OF EXISTING UTILITIES.
- 2.) 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 OF DELAY.
- 3.) 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.
- 4.) ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

#### EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT FOR STORM RUN-OFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- 1.) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.
- 2.) ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREETS.
- 3.) THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

#### GENERAL NOTES:

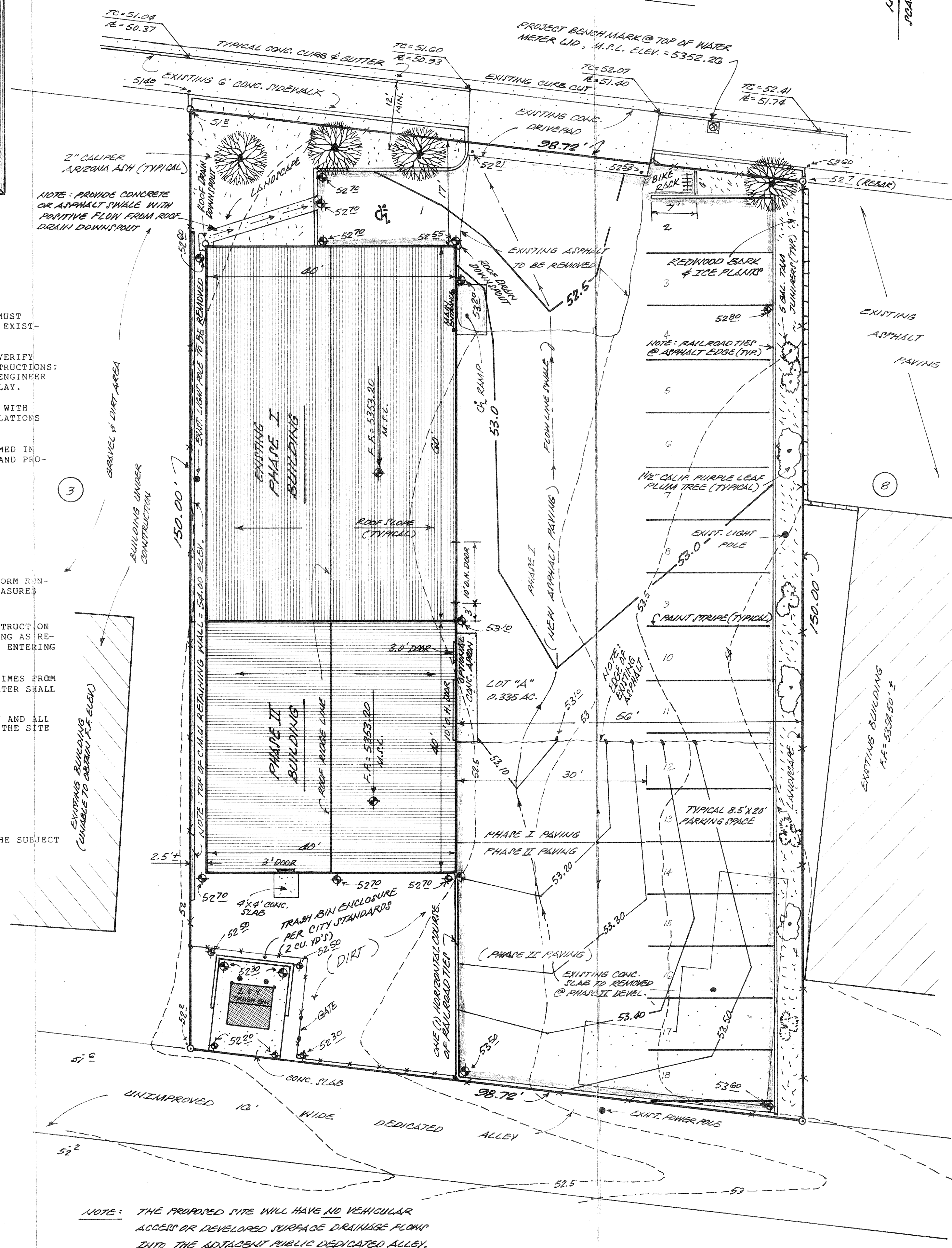
- 1.) TOPOGRAPHY SURVEY PERFORMED BY "TRANSIT-STADIA" METHOD.
- 2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT PROPERTY OTHER THAN THOSE SHOWN ON THE PLAN HEREON.

#### LANDSCAPE LEGEND:

ARIZONA ASH (2" CAL. MIN.) TREE  
 TAMM YUNIPER (5 GAL.) SHRUB  
 PURPLE LEAF PLUM TREE  
 REDWOOD BARK & ICE PLANT

#### LEGEND:

T.C. = 51.40 = TOP OF CURB ELEVATION  
 E. = 50.65 = CURB FLOW LINE ELEVATION  
 --- 52 --- = EXISTING OR PROPOSED CONCRETE  
 --- 50 --- = EXISTING CONTOUR  
 --- 50 --- = PROPOSED CONTOUR  
 --- 51.30 --- = EXISTING FENCE  
 --- 51.30 --- = PROPOSED SPOT ELEVATION  
 --- 51.30 --- = PROPOSED LIMIT OF NEW PAVING



NOTE: THE RE-SUBMITTAL OF THIS PLAN DATED MAY 24, 1989, ADDRESSED THE FOLLOWING REVISIONS:  
 a.) THE LOWERING OF PHASE II BUILDING BY 1.00'  
 b.) THE REVISED ASPHALT GRADES OF PHASE II PARKING.

#### DRAINAGE COMMENTS:

THE FOLLOWING ITEMS CONCERNING THE SUBJECT SITE ARE CONTAINED ON THE GRADING AND DRAINAGE PLAN AS SHOWN HEREON:

- 1.) SITE GRADING AND DRAINAGE PLAN
- 2.) VICINITY MAP
- 3.) LEGAL DESCRIPTION
- 4.) LIMITS AND CHARACTER OF THE EXISTING AND PROPOSED IMPROVEMENTS
- 5.) HYDRAULIC DRAINAGE CALCULATIONS

AS SHOWN ON THE VICINITY MAP HEREON THE SUBJECT SITE IS LOCATED ON THE EAST SIDE OF EAST CENTRAL AVENUE, BETWEEN CHARLESTON STREET S.E. AND DALLAS STREET S.E., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

THE PROJECT SITE, (1.) DOES NOT LIE WITHIN A FLOOD PLAIN, (2.) DOES NOT LIE ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE, (3.) HAS NO DRAINAGE EASEMENTS ON THE PROPERTY.

BASED ON A SITE INVESTIGATION, IT HAS BEEN DETERMINED THAT THE FREE DISCHARGE OF SURFACE FLOWS OF THE EXISTING AND PROPOSED QUANTITIES HAVE NO ADVERSE AFFECT ON DOWNSTREAM PROPERTIES.

#### DRAINAGE CALCULATIONS:

##### I. REFERENCES:

- A. CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM), VOL. 2, DESIGN CRITERIA, CHAPTER 22, DRAINAGE, FLOOD CONTROL AND EROSION CONTROL.
- B. SOIL SURVEY OF BERNALILLO COUNTY AND PARTS OF SANDOVAL AND VALENCIA COUNTIES, NEW MEXICO, UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, (SCS SHEET No. 31).

##### II. GENERAL INFORMATION:

- A. SOIL TYPE: SOIL TYPE IS "MWA", MADUREZ-WINK ASSOCIATION, GENTLY SLOPING, HYDROLOGIC SOIL GROUP "B".
- B. IMPERVIOUSNESS:

SITE AREA = 0.335 ACRES, (14,583.0 SQ. FT.).  
 PRESENT UNDEVELOPED "C" FACTOR = 0.40

##### C. TYPE OF SURFACE (DEVELOPED):

HARD SURFACED (ASPHALT/GRAVEL) = 0.20 AC. = 59' X (C=0.95) = 0.56  
 BUILDING ROOF AREA = 0.09 AC. = 27' X (C=0.90) = 0.24  
 LANDSCAPED AREA = 0.05 AC. = 14' X (C=0.25) = 0.04  
 UNDEVELOPED AREA = 0.00 AC. = 0' X (C=0.40) = 0.00

AVERAGE "WEIGHTED" "C" = 0.84

D. RAINFALL, 100-yr., 6-hr.,  $R_6$ ; (SEE REF. A., PLATE 22.2 D-1)  
 $R_6 = 2.4$  INCHES.

E. TIME OF CONCENTRATION,  $T_c$  = TEN (10) MINUTES FOR A SITE THIS SIZE

F. RAINFALL INTENSITY, "I", (SEE REF. A., PLATE 22.2 D-2)  
 $I = R_6 \times 6.84 \times T_c^{-0.51} = 2.4 \times 6.84 \times (10)^{-0.51} = 5.07 \text{ IN./HR.}$

##### III. PEAK DISCHARGE: (C = CIA)

UNDEVELOPED:  $Q_{100} = 0.40 \times 5.07 \times 0.335 = 0.68 \text{ cfs}$

$Q_{10} = 0.657 \times 0.68 = 0.45 \text{ cfs}$

DEVELOPED:  $Q_{100} = 0.84 \times 5.07 \times 0.335 = 1.43 \text{ cfs}$

$Q_{10} = 0.657 \times 1.43 = 0.94 \text{ cfs}$

##### IV. PEAK VOLUME:

##### A. EXISTING CONDITIONS:

$V_{100} = 0.40 \times (2.4/12) \times 14,583.0 = 1,166.6 \text{ CU. FT.}$   
 $V_{10} = 0.657 \times 1,166.6 = 766.5 \text{ CU. FT.}$

##### B. DEVELOPED CONDITIONS:

$V_{100} = 0.84 \times (2.4/12) \times 14,583.0 = 2,449.9 \text{ CU. FT.}$   
 $V_{10} = 0.657 \times 2,449.9 = 1,609.6 \text{ CU. FT.}$

\* NOTE: ROOF DRAINS INTO ROOF GUTTER AND TO DOWNPOUT LOCATED AT NORTHWEST AND NORTHEAST BUILDING CORNERS OF PHASE I BUILDING, AND FREE DISCHARGES INTO CENTRAL AVENUE THROUGH EXISTING DRIVEWAY.

#### LEGAL DESCRIPTION:

LOT "A", (BEING A REPLAT OF LOTS 4,5,6 AND 7), BLOCK TWO (2), OF THE B.M. MOORE ADDITION, AN ADDITION TO THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

#### BENCH MARK REFERENCE:

CITY OF ALBUQUERQUE ACS SURVEY STATION "6-K-19", M.S.L. ELEVATION = 5358.44, (PROJECT BENCH MARK AS SHOWN ON THE PLAN HEREON).

• SITE & LANDSCAPE PLAN •

GRADING AND DRAINAGE PLAN  
 FOR PROPOSED  
 "TOOLS-R-US" BUILDING  
 (770 CENTRAL AVENUE S.E.)  
 ALBUQUERQUE, NEW MEXICO  
 (REVISION: 5-31-88)

RECEIVED  
 MAY 25 1989  
 HYDROLOGY SECTION

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