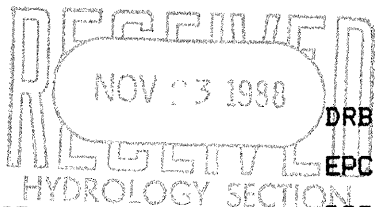


DRAINAGE INFORMATION SHEET

PROJECT TITLE: ROMERO'S LANDSCAPING ZONE ATLAS/DRNG. FILE #: K-11/D48
 LEGAL DESCRIPTION: LOT 94, RIO GRANDE HEIGHTS ADDITION, & N 1/2 OF VACATED
 CITY ADDRESS: 418 COORS ROAD S.W., NW City CUSTER RD. S.W.
 ENGINEERING FIRM: LEVI J. VALDEZ, P.E. MR. VALDEZ
RODRIGUEZ & ASSOCIATES CONTACT: MR. RODRIGUEZ
 ADDRESS: 2500 GARFIELD S.E. SUITE #5 PHONE: 266-3830
 OWNER: GEORGE ROMERO CONTACT: SAME (MR. ROMERO)
 ADDRESS: 418 COORS ROAD S.W. PHONE: 836-4107
 ARCHITECT: PAT RIVERA - DESIGNER CONTACT: MR. RIVERA
 ADDRESS: 4311 GRANDE N.W. (87107) PHONE: 345-9659
 SURVEYOR: WAYNE E. JOHNSTON, L.S. CONTACT: MR. JOHNSTON
 ADDRESS: ? PHONE: ?
 CONTRACTOR: ? CONTACT: _____
 ADDRESS: _____ PHONE: _____

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: NOVEMBER 23, 1988
 BY: RODRIGUEZ & ASSOCIATES

FILE COPY



KEN SCHULTZ
MAYOR

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 1, 1988

Levi Valdez
Rodriguez & Associates
122 Washington, SE
Albuquerque, New Mexico 87108

RE: DRAINAGE PLAN FOR ROMERO'S LANDSCAPING
(K-11/D48) ENGINEER'S STAMP DATED NOVEMBER 23, 1988

Dear Mr. Valdez:

Based on the information provided on your submittal of November 23, 1988,
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,

Roger A. Green, P.E.

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

BJM/bsj
(WP+940)



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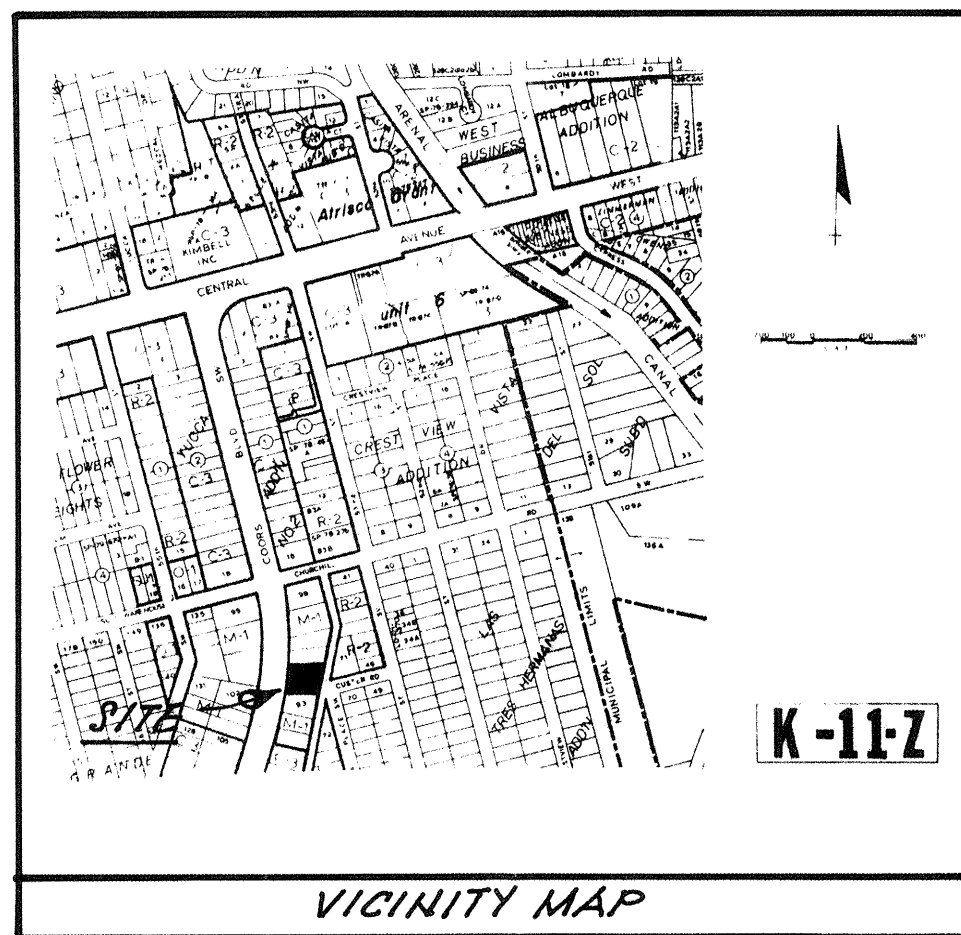
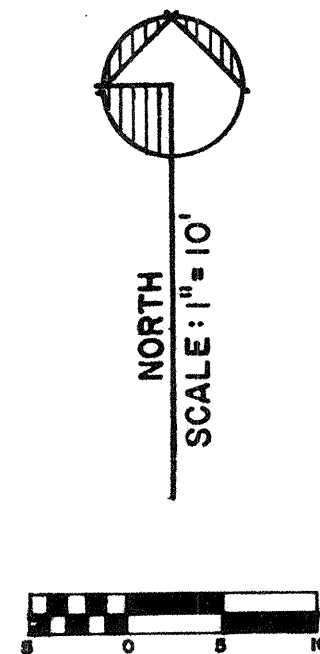
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Engineering Assistant

BJM/bsj
(WP+940)



GENERAL NOTES:

- 1.) NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- 2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT SITE OTHER THAN THOSE SHOWN ON THE PLAT OF RECORD.
- 3.) REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT OF THE PROPOSED IMPROVEMENTS.

NOTICE TO CONTRACTOR:

- 1.) AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- 2.) ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH "CONTRACT DOCUMENTS FOR CITY WIDE UTILITIES AND CASH PAVING NO. 31".
- 3.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE (765-1234), FOR LOCATION OF EXISTING OF SURFACE AND SUBSURFACE UTILITIES.
- 4.) 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 AMOUNT OF DELAY FOR THE PROJECT.

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 COORS BLVD. S.W. AND APPROXIMATELY 1600' SOUTH OF THE WEST CENTRAL AVENUE AND COORS BLVD. INTERSECTION WITHIN THE CITY LIMITS OF 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.

THE SUBJECT SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD ZONE; HOWEVER, IT DOES PRESENTLY CONTRIBUTE TO DOWNSTREAM FLOODING CONDITIONS; THEREFORE, 100% DETENTION OF RUN-OFF CREATED BY THE PROPOSED BUILDING AND ASPHALT PAVING IMPROVEMENTS WILL BE REQUIRED.

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. 30).

II. GENERAL INFORMATION:

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

B. IMPERVIOUSNESS:

SITE AREA = 0.304 ACRES, (13,250.0 SQ. FT.).
PRESENT UNDEVELOPED "C" FACTOR = 0.40

C. TYPE OF SURFACE (DEVELOPED):

HARD SURFACED (ASPHALT/GRAVEL)	= 0.041AC. = 13% X (C=0.95) = 0.12
BUILDING ROOF AREA	= 0.014AC. = 05% X (C=0.90) = 0.05
LANDSCAPED AREA	= 0.010AC. = 03% X (C=0.25) = 0.01
UNDEVELOPED AREA	= 0.239AC. = 79% X (C=0.40) = 0.32

AVERAGE "WEIGHTED" "C" = 0.50

D. RAINFALL, 100-YR., 6-HR., R_6 ; (SEE REF. A., PLATE 22.2 D-1)

$R_6 = 2.2$ 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)
 $I = R_6 \times 6.84 \times T_c^{-0.51} = 2.2 \times 6.84 \times (10)^{-0.51} = 4.65$ IN./HR.

III. PEAK DISCHARGE: ($Q = CIA$)

UNDEVELOPED: $Q_{100} = 0.40 \times 4.65 \times 0.304 = 0.57$ cfs

$Q_{10} = 0.657 \times 0.57 = 0.37$ cfs

DEVELOPED: $Q_{100} = 0.50 \times 4.65 \times 0.304 = 0.71$ cfs

$Q_{10} = 0.657 \times 0.71 = 0.47$ cfs *** INCREASE OF 0.14 cfs

IV. PEAK VOLUME:

A. EXISTING CONDITIONS:

$V_{100} = 0.40 \times (2.2 / 12) \times 13,250.0 = 972.0$ CU. FT.

$V_{10} = 0.657 \times 972.0 = 638.6$ CU. FT.

B. DEVELOPED CONDITIONS:

$V_{100} = 0.50 \times (2.2 / 12) \times 13,250.0 = 1,214.6$ CU. FT.

$V_{10} = 0.657 \times 1,214.6 = 798.0$ CU. FT.

*** PEAK VOLUME INCREASE OF 242.6 CU. FT. FOR TOTAL SITE.

NOTE: PER CITY OF ALBUQUERQUE - HYDROLOGY SECTION PRE-DESIGN CONFERENCE CONCERNING THE SUBJECT SITE REQUIRED 100% DETENTION ONLY FOR THE PROPOSED NEW BUILDING AND ASPHALT PAVING; SAID DETENTION REQUIRED IS CALCULATED TO BE 219.3 CU. FT. .

LEGAL DESCRIPTION:

LOT NUMBERED NINETY-FOUR (94), OF THE RIO GRANDE HEIGHTS ADDITION, AN ADDITION TO THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO. (CITY ZONE ATLAS MAP "K-11-Z").

BENCH MARK REFERENCE:

CITY OF ALBUQUERQUE BENCH MARK STATION "NM 45-2A" LOCATED AT THE CENTERLINE OF COORS BLVD. S.W. APPROXIMATELY 255' SOUTH OF CHURCHILL ROAD S.W.; M.S.L. DATUM ELEVATION = 5011.843, PROJECT BENCH MARK AS SHOWN ON THE PLAN HEREON.

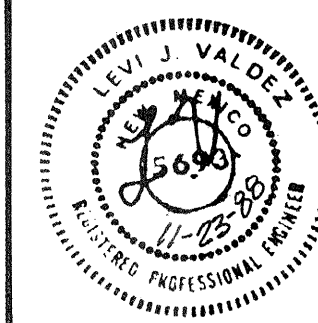
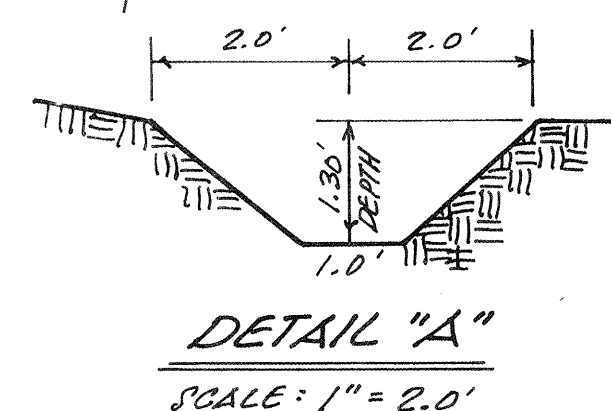
EROSION CONTROL MEASURES:

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.

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.



GRADING AND DRAINAGE PLAN
FOR PROPOSED OFFICE BUILDING FOR
ROMERO'S LANDSCAPING
418 COORS ROAD S.W.
ALBUQUERQUE, NEW MEXICO
NOVEMBER, 1988

