

Zone	Intensity [2-YR, 10-YR]	100-YR [2-YR, 10-YR]
1	4.70 [1.84, 3.14]	
2	5.05 [2.04, 3.41]	
3	5.38 [2.21, 3.65]	
4	5.81 [2.34, 3.83]	

Zone	Treatment				100-YR [2-YR, 10-YR]
	A	B	C	D	
1	1.29 [0.00, 0.24]	2.03 [0.03, 0.76]	2.87 [0.47, 1.49]	4.37 [1.69, 2.89]	
2	1.66 [0.00, 0.38]	2.28 [0.08, 0.95]	3.14 [0.60, 1.71]	4.70 [1.86, 3.14]	
3	1.87 [0.00, 0.58]	2.60 [0.21, 1.19]	3.45 [0.78, 2.00]	5.02 [2.04, 3.39]	
4	2.20 [0.05, 0.87]	2.92 [0.38, 1.45]	3.73 [1.00, 2.28]	5.25 [2.17, 3.57]	

#### LEGAL DESCRIPTION:

BLOCK ONE (1) OF THE PANORAMA SUBDIVISION, TO THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, (FILED: JUNE 18, 1954).

#### BENCH MARK REFERENCE:

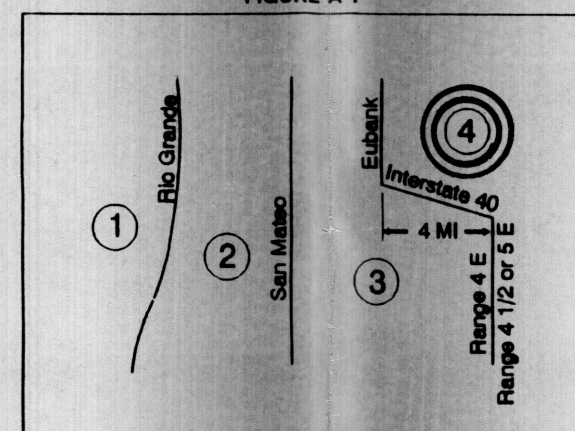
ACS STATION "14-K22", LOCATED AT THE SOUTHEAST CORNER OF COPPER AVENUE N.E. AND CHELWOOD N.E.; M.S.L.D. ELEVATION = 5637.90, (PROJECT T.B.M. AS SHOWN ON THE PLAN HEREON).

#### A.1 PRECIPITATION ZONES

Bernalillo County's four precipitation zones are indicated in TABLE A-1 and on FIGURE A-1.

Zone	Location
1	West of the Rio Grande
2	Between the Rio Grande and San Mateo
3	Between San Mateo and Eubank, North of Interstate 40, and between San Mateo and the East boundary of Range 4 East, South of Interstate 40
4	East of Eubank, North of Interstate 40, and East of the East boundary of Range 4 East, South of Interstate 40

FIGURE A-1



Where a watershed extends across a zone boundary, use the zone which contains the largest portion of the watershed.

Treatment	Land Condition
A	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundcover and infiltration capacity. Croplands. Unlined arroyos.
B	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent.
C	Soil compacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and roofs.

Most watersheds contain a mix of land treatments. To determine proportional treatments, measure respective subareas. In lieu of specific measurement for treatment D, the areal percentages in TABLE A-5 may be employed.

#### DRAINAGE COMMENTS AND CALCULATIONS:

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT SITE IS LOCATED ON THE SOUTH SIDE OF COPPER AVENUE N.E. BETWEEN CHELWOOD PARK BLVD. N.E. AND TRAMWAY BLVD. N.E., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, (ZONE MAP NO. "K-22-2").

THE SUBJECT SITE, 1.) IS PRESENTLY A VACANT LOT THAT IS TO HAVE A SINGLE FAMILY RESIDENCE CONSTRUCTED ON SITE, 2.) IS ENCLOSED BY A DESIGNATED A-0 1.0' DEPTH FLOODPLAIN THAT IS WITHIN SAID COPPER AVENUE N.E. (RE: F.E.M.A. FLOODWAY PANEL MAP NO. 31 OF 50), 3.) ACCEPTS AND WILL CONTINUE TO ACCEPT MINIMAL OFFSITE FLOWS FROM THE VACANT LOT THAT LIES EAST OF AND ADJACENT TO SAID SUBJECT SITE, 4.) DOES NOT CONTRIBUTE TO THE OFFSITE FLOWS OF ADJACENT PROPERTIES AND WILL NOT CONTRIBUTE TO THE OFFSITE FLOWS OF ADJACENT PROPERTIES IN THE DEVELOPED CONDITION.

#### CALCULATIONS:

PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2., DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, DATED JANUARY, 1993.

SITE AREA: 0.60 ACRE  
PRECIPITATION ZONE: FOUR (4), TABLE A-1.  
PEAK INTENSITY: IN./HR. AT  $T_c$  = TWELVE (12) MINUTES, 100-YR. = 5.61  
LAND TREATMENT METHOD FOR CALCULATION OF " $Q_p$ ", TABLES A-8 & A-9.  
"LAND TREATMENT FACTORS", TABLE A-4.

#### EXISTING CONDITIONS:

TREATMENT	AREA/ACRES	FACTOR	CFS
C	0.60	X 3.73	= 2.24
$Q_p = 2.24$ CFS			

#### PROPOSED DEVELOPED CONDITIONS:

TREATMENT	AREA/ACRES	FACTOR	CFS
C	0.48	X 3.73	= 1.79
D	0.12	X 5.25	= 0.63
$Q_p = 2.42$ CFS			

2.42 - 2.24 CFS, (DIFFERENCE = 0.18 CFS)

NOTE: CONTRACTOR IS TO PROVIDE POSITIVE GRADE SLOPE AWAY FROM THE PROPOSED BUILDING STRUCTURE, AND IS ALSO TO PROVIDE FOR REQUIRED EARTH FILL MATERIAL FOR THE PROPOSED STRUCTURE ACCORDING TO ARCHITECT'S (OR STRUCTURAL ENGINEER'S) SPECIFICATIONS.

#### GENERAL NOTES:

- 1.) REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT DIMENSIONS OF THE PROPOSED IMPROVEMENTS.
- 2.) TOPOGRAPHY SURVEY PERFORMED BY TORRES SURVEYING COMPANY, ALBUQUERQUE, NEW MEXICO.
- 3.) NO PROPERTY CORNERS HAVE BEEN FIELD ESTABLISHED OR VERIFIED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- 4.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT PROPERTY.

#### NOTE: (FENCES AND BLOCK WALLS)

SEPERATE PERMITS ARE REQUIRED UNLESS INCLUDED ON PERMIT FOR BUILDING. IT IS THE OWNER(S) RESPONSIBILITY TO ASCERTAIN PROPERTY LINES; A BUILDING PERMIT IS REQUIRED FOR FENCES AND MASONRY WALLS OVER SIX (6.0') FEET HIGH AND FOR RETAINING WALLS THAT VARY MORE THAN EIGHTEEN INCHES (18") ON OPPOSITE SIDES; THIS PLAN DOES NOT ADDRESS FENCES OR WALLS; OPENINGS IN WALLS OR FENCES OF 6" X 1.0' SHALL BE LOCATED SO AS TO ACCEPT OR OUTLET THE REQUIRED FLOWS.

#### EROSION CONTROL MEASURES:

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

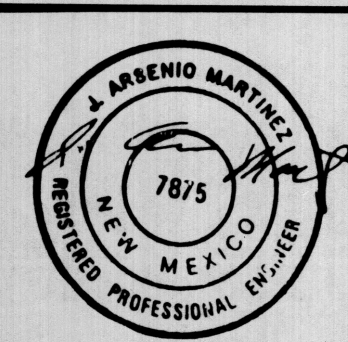
- 1.) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.
- 2.) ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM 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 200-1990 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.

#### LEGEND:

TOP OF CURB ELEVATION = 70+57.87  
CURB FLOWLINE ELEVATION = 16+56.02  
SPOT ELEVATION = 56.2  
EXISTING CONTOUR = 56  
PROPOSED SPOT ELEVATION = 56.25  
PROPOSED CONTOUR = 56  
EXISTING OR PROPOSED CONCRETE =



04-12-96  
ENGINEER'S SEAL

A DRAINAGE PLAN FOR  
PROPOSED  
CRAVEN'S RESIDENCE  
COPPER AVE. N.E.  
ALBUQUERQUE, NEW MEXICO  
APRIL, 1996

