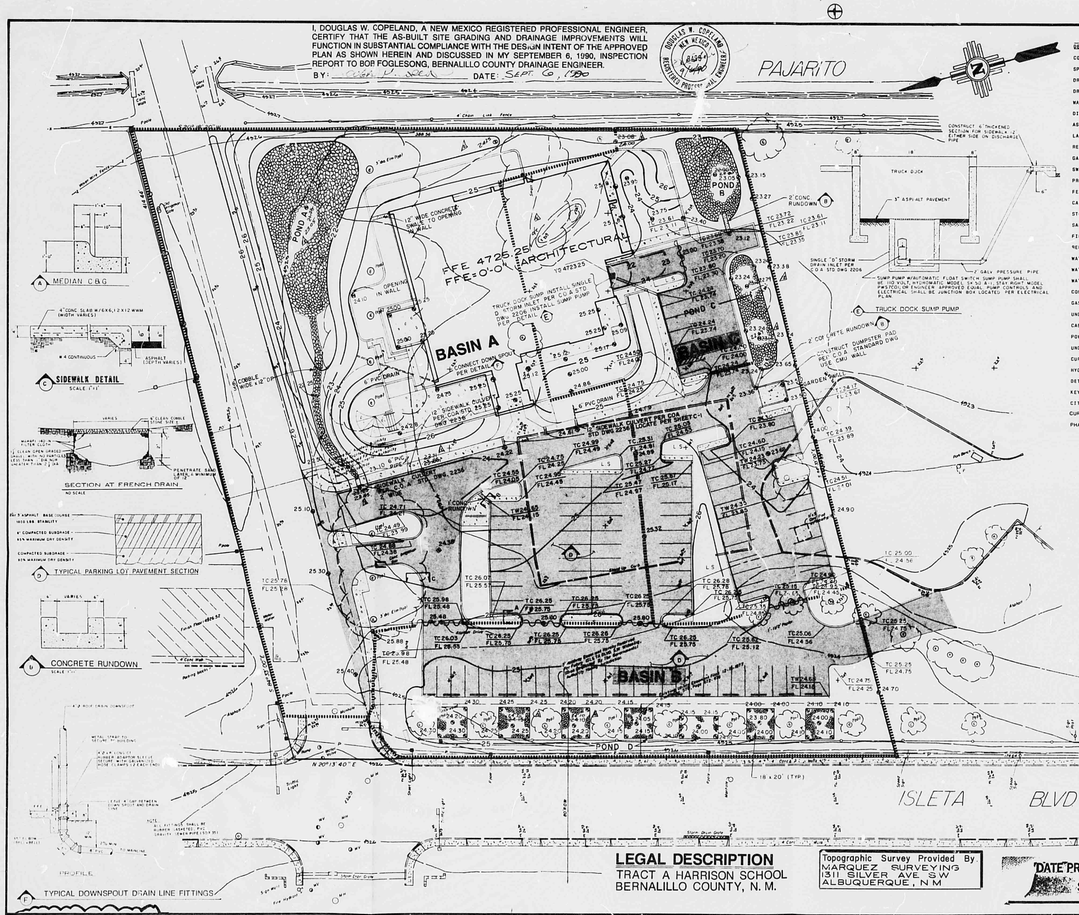
I, DOUGLAS W. COPELAND, A NEW MEXICO REGISTERED PROFESSIONAL ENGINEER, CERTIFY THAT THE AS-BUILT SITE GRADING AND DRAINAGE IMPROVEMENTS WILL FUNCTION IN SUBSTANTIAL COMPLIANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN AS SHOWN HEREIN AND DISCUSSED IN MY SEPTEMBER 6, 1990, INSPECTION REPORT TO BOB FOGLESONG, BERNALILLO COUNTY DRAINAGE ENGINEER.

BY: [signature] DATE: SEPT 6, 1990



LEGEND

DESCRIPTION	NEW	EXISTING
CONTOURS		
SPOT ELEVATION		
DRAINAGE AREA BOUNDARY		
DRAINAGE DIVIDE		
WATER BLOCK		
DIRECTION OF FLOW		
ASPHALT PAVING	ASPHALT	ASPHALT
LANDSCAPING		
RETAINING WALL		
GARDEN WALL		
SWALE		
PROPERTY LINE		
FENCE		
CATCH BASIN		
STORM DRAIN MANHOLE AND LINE		
SANITARY SEWER MANHOLE AND LINE		
FIRE HYDRANT AND WATER LINE		
REDUCERS		
WATER VALVES		
WATER CONNECTIONS		
WATER JOINTS		
CONCRETE		
GAS LINE		
UNDERGROUND TELEPHONE		
CABLE TELEVISION		
POWER/TELEPHONE POLE		
UNDERGROUND ELECTRICAL		
CURB ELEVATION		
HYDROLOGICAL ANALYSIS POINT		
DETAIL REFERENCE		
KEYED NOTES		
CITY ABG. DETAIL REFERENCE		
CURVE OR COORDINATE REFERENCE INFO		
PHASE BOUNDARY		

GENERAL NOTES FOR GRADING AND DRAINAGE

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, EXCEPT AS OTHERWISE STATED OR PROVIDED ON THE APPROVED PLANS OR AMENDMENTS THEREOF, SHALL CONFORM TO THE CURRENT STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION - CITY EDITION, EXCEPT FOR GENERAL CONDITIONS.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 766-1924, FOR LOCATION OF EXISTING 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.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
6. MAINTENANCE OF THE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
8. DISPOSAL OF ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS SPECIFIED IN SECTION 6.14 OF THE GENERAL CONDITIONS IN THE STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION - CITY EDITION.
9. ALL CONCRETE DUMPSTER PADS SHALL BE SIX INC. REINFORCED CONCRETE (6"-4", 10 GA. W.W.F.).
10. OWNERSHIP OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF EASTERLING & ASSOCIATES, INC. AND SHALL NOT BE ALTERED IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF EASTERLING & ASSOCIATES, INC.
11. CONSTRUCTION SAFETY: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY, WHICH SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY.
12. EROSION CONTROL: THE SITE WILL BE FULLY DEVELOPED IMMEDIATELY. EROSION PROBLEMS GENERATED BY PHASED DEVELOPMENT WILL NOT, THEREFOR, BE A PROBLEM.
13. CONSTRUCTION PHASE: THE CONTRACTOR SHALL EXERCISE REASONABLE CARE DURING CONSTRUCTION TO PREVENT THE MOVEMENT OF SEDIMENT FROM THE SITE. THE USE OF SILT FENCE, HAY BALES, OR OTHER SUITABLE DEVICES DURING CONSTRUCTION ACTIVITIES SHALL BE PRACTICED FROM BEING CARRIED OFFSITE BY FLOWING WATER IN THE STREET.

Basin	Vol. Req'd	Pond	Vol. Provided	Basin	Vol. Provided
A	9056 Cu Ft	A	5150 Cu Ft	A	4880 Cu Ft
B	3073 Cu Ft	D	2746 Cu Ft	B	1107 Cu Ft
C	4043 Cu Ft	B	1663 Cu Ft	C	*
		C	1107 Cu Ft		

* THE ADDITIONAL 1086 Cu Ft REQ'D IS PROVIDED IN BASIN A -WATER WILL OVERFLOW FROM BASIN C TO BASIN A

Note: Volumes shown are for the 100yr 24hr event

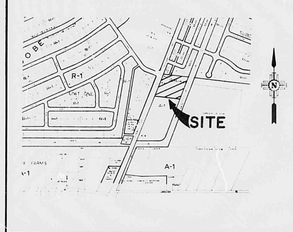
LEGAL DESCRIPTION
TRACT A HARRISON SCHOOL
BERNALILLO COUNTY, N. M.

Topographic Survey Provided By:
MARQUEZ SURVEYING
1311 SILVER AVE. S.W.
ALBUQUERQUE, N.M.

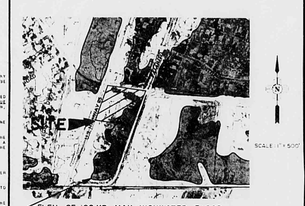
DATE PRINTED: SEP 6 1990

SCALE: 1" = 30' Feet

VICINITY MAP ZONE ATLAS MAP NO. P-12



FLOOD HAZARD MAP & OFF-SITE FLOWS MAP NO 40 FROM F.E.M.A.



SOILS MAP SOIL SURVEY MAP NO. 40 U.S.D.A., S.C.S.

RECEIVED SEP 10 1990

No.	REVISIONS	BY	DATE
4	Re-Grade Spots + Final Contours	HYDROLOGY VISION, INC.	7-6-88
3	Revised Hydrology & Pond Volume	MJG	5-2-89

SOUTH VALLEY LIBRARY

DETAILED GRADING & DRAINAGE PLAN

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
5643 Paseo del N.E.
Albuquerque, New Mexico 87113

DRAWN	CHK'D	APP'D	Sheet
MJG		DWC	

DATE: DECEMBER 1988

HYDROLOGY

HYDROLOGY SUMMARY SHEET FOR GRADING & DRAINAGE REPORT
PROJECT: SOUTH VALLEY LIBRARY
A.K.A. ALBUQUERQUE TRACT A DATE: DEC. 22, 1988

DESCRIPTION	AREA (ac.)	SLOPE (%)	SLOPE (DEG)	SLOPE (FT/FT)	Yc (MIN)	SOIL	P (IN)	C	RUNOFF PARAMETERS FOR 2 YEAR EVENT P	I	V	Q	RUNOFF PARAMETERS FOR 10 YEAR EVENT P	I	V	Q	RUNOFF PARAMETERS FOR 100 YEAR EVENT P	I	V	Q
1-A	DEVELOPED	3.82	3	.052	0.052	10	B	67.0	0.49	1.28	2.54	3714	4.6	1.77	3.75	8336	6.8	2.70	5.71	18372	10.3
1-B	UNDEVELOPED	3.00	3	.052	0.052	10	B	75.0	0.60	1.28	2.54	5685	5.8	1.77	3.75	3283	4.5	2.70	5.71	8398	6.8

P = 24 HR. RAINFALL DEPTH (inches)
I = RAINFALL INTENSITY (inches/ FOR 24 HR EVENT, (Bur. NOAA ATLAS 2)
V = VOLUME (FT OF RUNOFF)
Q = FLOW RATE OF RUNOFF (cubic feet per second)

DRAINAGE PLAN

EXISTING CONDITIONS

THE THREE ACRE SITE IS LOCATED ON THE SOUTHEAST CORNER OF THE INTERSECTION OF ISLETA BLVD. AND CAMINO DEL VALLE. APPROXIMATELY 2,400 SQUARE FEET ON THE NORTHEAST CORNER OF THE SITE IS WITHIN THE 100 YEAR FLOOD PLAIN. THE SITE IS ACCESSED FROM ISLETA BLVD. RUNOFF FROM THE SITE FLOWS SOUTHEAST ACROSS THE PROPERTY INTO THE FLOOD PLAIN WHERE LOW-LYING IS THE RECEIVING DOWNSTREAM.

PROPOSED DEVELOPMENT

THE PROJECT SITE WILL BE DEVELOPED AS A PUBLIC LIBRARY. THE SITE WILL BE GRADED TO DRAIN INTO A SERIES OF ON-SITE FRENCH DRAIN PONDS, WHICH WILL INCLUDE THOSE RETENTION OF THE DEVELOPED RUNOFF FOR THE 100 YEAR STORM.

BENCH MARK INFORMATION

"4970" A "CT" CUT ON THE TOP OF THE NORTH SUBSTRUCT CONCRETE CURB LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF ISLETA BLVD. AND LAGUNA ROAD. ELEVATION 4,929.624.

SOILS INFORMATION FROM SOIL SURVEY U.S.D.A., S.C.S.

SOIL SERIES AND SYMBOLS	DEGREE AND KIND OF LIMITATIONS FOR: TENT CAMPS AND PICNIC AREAS	DWELLINGS	SMALL COMMERCIAL BUILDINGS (EXCAVATION)	SANITARY LANDFILL (AREA TRENCH)	SANITARY LANDFILL (TRENCH)	LOCAL ROAD AND STREETS	SUITABILITY AS SOURCE OF: ROAD FILL	SAND	GRAVEL	TOPSOIL	SOIL FEATURES AFFECTING: POND RESERVOIR AREAS	DIKES, LEVEES, EMBANKMENTS (EARTHWORK)	HYDROLOGIC SOIL GROUP
Brazito: Bz, Bs, Bt	Slight	Severe: seepage	Slight	Severe: seepage	Severe: seepage; too sandy	Slight	Good	Fair: excess fines	Unsuited	Fair: thin layer	Seepage	Seepage, piping, stores sandy	A
*Vinton: Vc, VbA, VBB, Vr, Vf: Brazito part of 'Vf' was Dagsto series	Slight	Severe: seepage	Slight	Severe: cutbanks cave	Severe: seepage	Slight	Good	Poor: excess fines	Unsuited	Poor: too sandy	Seepage	Piping, seepage	B

Bs—Brazito silty clay loam. This level soil is in the Rio Grande Valley. It has a profile similar to that described as representative of the series, but the surface layer is commonly 12 inches thick and in some areas is 12 to 14 inches thick. The surface layer is silty clay loam because plowing has mixed the fines from silty irrigation water with the underlying sand. In most areas the seasonal water table is below 60 inches. In about 2 percent of the mapped areas, however, it is at a depth of 45 to 60 inches and the soil is slightly to moderately saline. Slopes are 0 to 1 percent. Included with this unit are small areas of Agua silty clay loam and Brazito loamy sand. Runoff is slow, and the hazard of water erosion is slight. Permeability is moderate to the underlying strongly contrasting sand layer and rapid below. Available water capacity is 4 to 5 inches.

VbA—Vinton sandy loam, 0 to 1 percent slopes. This level soil is in the irrigated Rio Grande Valley. It has the profile described as representative of the series. In most areas the seasonal water table is below 60 inches, but on about 2 percent of the acreage it is between depths of 45 and 60 inches and the soil is moderately saline.

Included with this soil in mapping are small areas of Brazito and Gila soils and Vinton soils that have a surface layer of sandy clay loam, or loamy fine sand. Runoff is slow, and the hazard of soil blowing is severe. This soil is used for irrigated alfalfa, row crops, and pasture. It is also used for wildlife habitat and community development. Irrigated capability unit IIIe-11.

SOUTH VALLEY LIBRARY

DETAILED GRADING & DRAINAGE PLAN

REF. 22 DATE 6-5-93 OP 5P
CITY OF ALBUQUERQUE
This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the PUBLIC WORKS DEPARTMENT - HYDROLOGY DIVISION and was filmed in the normal course of business. The photographic processes used meet the Basic Microfilm Standards of the National Micrographics Association (NMA 15-1977).
CITY CLERK RECORDER
OFFICIAL SEAL NORBERTA SANCHEZ NOTARY PUBLIC STATE OF NEW MEXICO
My Commission Expires MAY 8 1993
THIS PLAN SHOT TWICE ONCE ON LIGHT AND ONCE ON DARK.
CITY OF ALBUQUERQUE THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

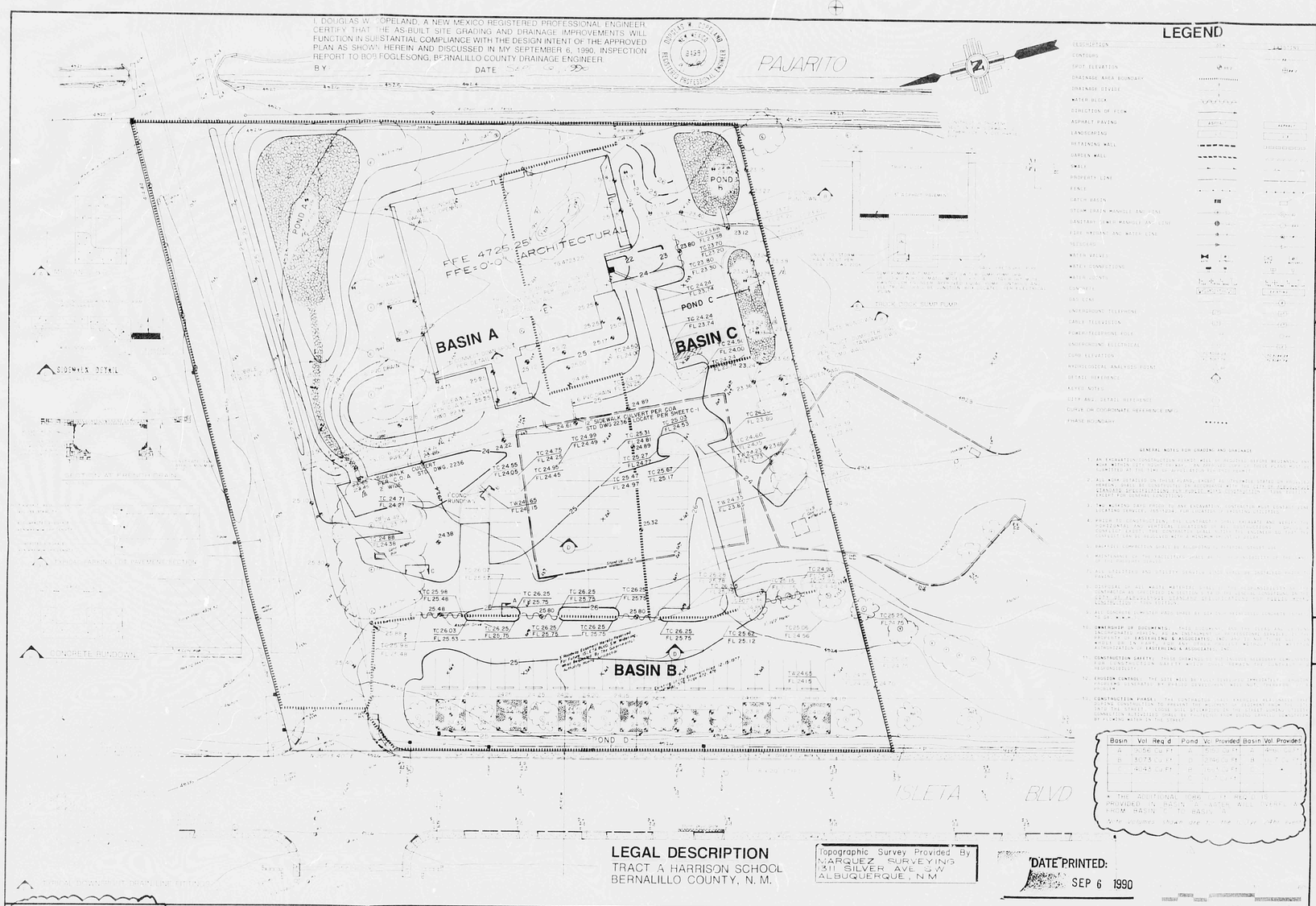
PLANS/PLATS ON FILE

FILE DESC: P-12/0007

PLANS/PLATS 1

I, DOUGLAS W. STOPELAND, A NEW MEXICO REGISTERED PROFESSIONAL ENGINEER CERTIFY THAT THE AS-BUILT SITE GRADING AND DRAINAGE IMPROVEMENTS WILL FUNCTION IN SUBSTANTIAL COMPLIANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN AS SHOWN HEREIN AND DISCUSSED IN MY SEPTEMBER 6, 1990, INSPECTION REPORT TO BOB FOGLESONG, BERNALILLO COUNTY DRAINAGE ENGINEER.

BY: DATE: SEPTEMBER 6, 1990



LEGEND

DESCRIPTION
CONTOURS
SPOT ELEVATION
DRAINAGE AREA BOUNDARY
DRAINAGE DIVIDE
WATER BLOCK
DIRECTION OF FLOW
ASPHALT PAVING
LANDSCAPING
RETAINING WALL
GARDEN WALL
WALK
PROPERTY LINE
FENCE
CATCH BASIN
STORM DRAIN MANHOLE AND PIPE
SANITARY SEWER MANHOLE AND LINE
FIRE HYDRANT AND WATER LINE
TELEPHONE
WATER VALVE
WATER CONNECTIONS
WATER METER
CURB
GAS LINE
UNDERGROUND TELEPHONE
CABLE TELEVISION
POWER TELEPHONE POLE
UNDERGROUND ELECTRICAL
CURB ELEVATION
HYDROLOGICAL ANALYSIS POINT
DETAIL REFERENCE
KEYED NOTES
SITE AND DETAIL REFERENCE
CURVE COORDINATE REFERENCE INFO
PHASE LINE BOUNDARY

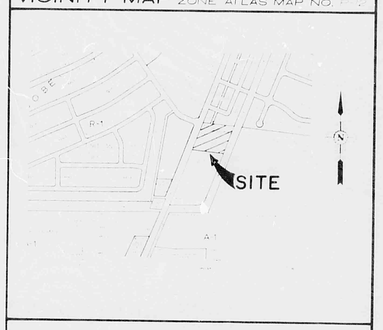
GENERAL NOTES FOR GRADING AND DRAINAGE

1. AN EXCAVATION CONSTRUCTION PERMIT MUST BE OBTAINED BEFORE BEGINNING CONSTRUCTION. CONTACT THE CITY OF ALBUQUERQUE, DEPARTMENT OF PUBLIC WORKS AT 768-2550 FOR INFORMATION.
2. ALL WORK DETAILED IN THESE PLANS, UNLESS OTHERWISE STATED, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE, DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
3. THE WORKING DAYS PERMITTED FOR EXCAVATION, CONSTRUCTION AND RESTORATION WILL BE ASSIGNED BY THE CITY OF ALBUQUERQUE, DEPARTMENT OF PUBLIC WORKS.
4. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES, HORIZONTAL AND VERTICAL ALIGNMENT, AND ELEVATIONS OF ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES EXIST BETWEEN THE PLAN AND FIELD CONDITIONS.
5. ALL PAVEMENT, CURB AND GUTTER, SIDEWALK, ETC. DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPLACED IN KIND.
6. OWNERSHIP OF DOCUMENTS: THE PLANS, SPECIFICATIONS, REPORTS, PAPERS, AND OTHER DOCUMENTS PREPARED BY THE ENGINEER FOR THIS PROJECT ARE INSTRUMENTS OF PROFESSIONAL SERVICE PROPERTY OF THE ENGINEER (EASTERLING & ASSOCIATES, INC.) AND ARE TO BE RETURNED TO THE ENGINEER (EASTERLING & ASSOCIATES, INC.) UPON REQUEST.
7. CONSTRUCTION CAREFUL GRADING AND EROSION CONTROL MEASURES SHALL BE EMPLOYED DURING CONSTRUCTION TO MINIMIZE SEDIMENTATION OF ADJACENT PROPERTIES AND STREETS.
8. EROSION CONTROL: THE SITE WILL BE STABILIZED IMMEDIATELY FOLLOWING CONSTRUCTION TO PREVENT EROSION. DEVELOPED SLOPES WILL BE STABILIZED BY PLANTING GRASSES, SHRUBS, OR OTHER GROUND COVER.
9. CONSTRUCTION PHASE: THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE DURING CONSTRUCTION TO PREVENT DAMAGE TO ADJACENT PROPERTIES. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE FACILITIES AS REQUIRED TO MAINTAIN DRAINAGE FLOWS DURING CONSTRUCTION.

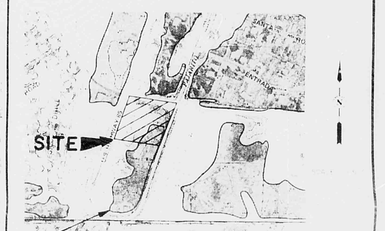
Basin	Vol. Req'd	Pond Vol. Provided	Basin Vol. Provided
A	0.15 A.F.		
B	0.15 A.F.		
C	0.15 A.F.		
D	0.15 A.F.		

THE ADDITIONAL 0.15 A.F. REQ'D IN BASIN C WILL BE PROVIDED IN BASIN D. THE TOTAL REQ'D IN BASIN D IS 0.45 A.F.

VICINITY MAP ZONE ATLAS MAP NO. F-14

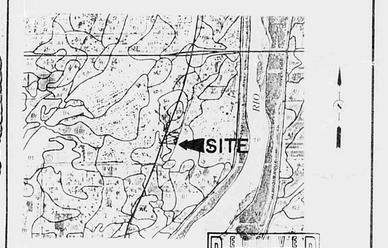


FLOOD HAZARD MAP & OFF-SITE FLOWS FROM F.E.M.A.



ELEV. OF 100 YR MAX HIGHWATER FLOOD PLAIN = 4923.00

SOILS MAP SOIL SURVEY U.S.D.A., S.C.S.



LEGAL DESCRIPTION

TRACT A HARRISON SCHOOL
BERNALILLO COUNTY, N. M.

Topographic Survey Provided By
MARQUEZ SURVEYING
311 SILVER AVE. S.W.
ALBUQUERQUE, N.M.

DATE PRINTED:
SEP 6 1990

HYDROLOGY

| | | |