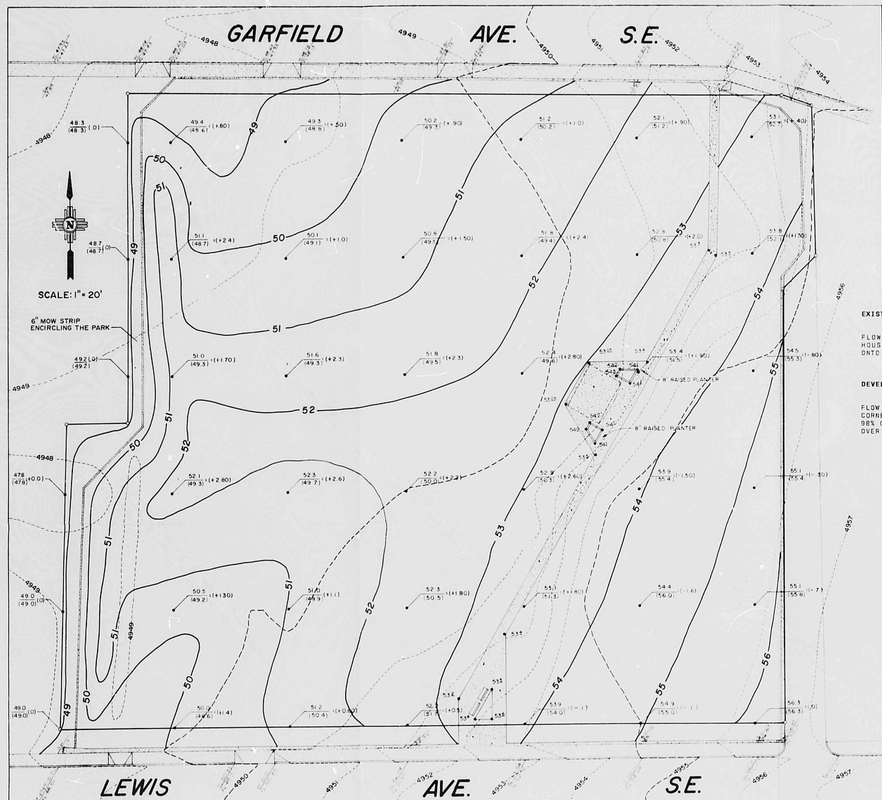
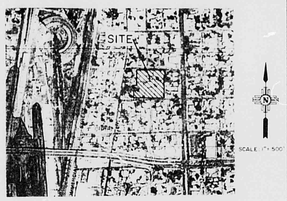
PUBLIC WORKS/HYDROLOGY

L14/D23

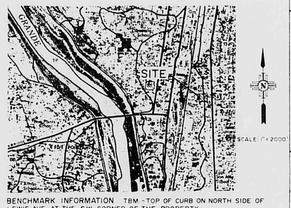


VICINITY MAP ZONE ATLAS MAP NO. L-14

FLOOD HAZARD MAP
& OFFSITE FLOWS FROM F.E.M.A. MAP NO. 30



SOILS MAP FROM SOIL SURVEY, BERN. CO. U.S.D.A., S.C.S.



BENCHMARK INFORMATION TBM - TOP OF CURB ON NORTH SIDE OF LEWIS AVE. AT THE S.W. CORNER OF THE PROPERTY
ELEV. 4949.15

EXISTING CONDITIONS:

THE 1.86 ACRE SITE IS CURRENTLY A VACANT LOT WITH RUNOFF FLOWING FROM THE EAST TO THE WEST INTO THE YARDS OF EXISTING HOUSING ON THE WEST PROPERTY LINE. THERE ARE NO OFFSITE FLOWS ONTO THIS PROPERTY FROM THE 100 YEAR STORM.

DEVELOPED CONDITIONS:

THERE WILL BE NO OFFSITE FLOW ONTO THIS PROPERTY. DEVELOPED FLOW WILL BE DIRECTED TO THE NORTHWEST CORNER AND THE SOUTHWEST CORNER WHERE THEY WILL DRAIN THROUGH A CURB CUT INTO THE STREET. 98% OF THE PARK WILL BE GRASS COVERED WITH A SLOPE OF AT LEAST 2% OVER THE WHOLE SITE.

NOTES:
TOTAL CUT 343 CUBIC YARDS
TOTAL FILL 3,845 CUBIC YARDS

CONSTRUCTION SAFETY:

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY.

EROSION CONTROL:

THE SITE WILL BE FULLY DEVELOPED IMMEDIATELY. EROSION PROBLEMS GENERATED BY PHASED DEVELOPMENT WILL NOT, THEREFORE, BE A PROBLEM.

CONSTRUCTION PHASE: THE CONTRACTOR SHALL EXERCISE REASONABLE CARE DURING CONSTRUCTION TO PREVENT THE MOVEMENT OF SEDIMENT FROM THE SITE INTO THE STREET. LOOSE SOIL STOCKPILED IN THE STREET DURING UTILITY CONNECTION ACTIVITIES SHALL BE PROTECTED FROM BEING CARRIED DOWNSTREAM BY FLOWING WATER IN THE STREET.

1-7-87
Roger A. Rheem, PE Hydrology

RECEIVED
JAN 7 1987
HYDROLOGY SECTION

LEGEND
- SLP NEW SHOT ELEV (+35) ELEVATION DIFF
- (SLP) EXISTING ELEV (-35) ELEVATION DIFF

AS BUILT INFORMATION
BENCH MARKS
SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE
ENGINEER'S SEAL
FAITHEUNG & ASSOCIATES
ALBUQUERQUE, NEW MEXICO
REMARKS
REVISIONS
NO. | DATE | BY
DESIGN
DESIGNED BY D.L.S.
DRAWN BY D.L.S.
CHECKED BY C.A.F.

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

SOIL SERIES AND MAP SYMBOLS	DEGREE AND KIND OF LIMITATIONS FOR						SUITABILITY AS SOURCE OF —				SOIL FEATURES AFFECTING —		HYDROLOGIC SOIL GROUP
	SEPTIC TANK ABSORPTION FIELDS	SEWAGE LAGOONS	SHALLOW EXCAVATIONS	DWELLINGS WITHOUT BASEMENTS	SANITARY LANDFILL (TRENCH TYPE)	LOCAL ROAD AND STREETS	ROAD FILL	SAND	GRAVEL	TOPSOIL	POND RESERVOIR AREAS	DIKES, LEVEES, AND OTHER EMBANKMENTS	
Cut and fill land: Cu	Slight if slope is 1 to 8 percent.	Severe: seepage.	Moderate: cutbanks cave; slope.	Slight if slope is 1 to 8 percent.	Severe: seepage.	Slight if slope is 1 to 8 percent.	Good if slope is less than 15 percent, fair if more than 15.	Fair: excess fines.	Unsuited	Poor: small stones.	Seepage.	Hard to pack; seepage.	A
Glendale: Gla, Gm	Severe: percs slowly.	Slight	Moderate: too clayey.	Moderate: shrink swell.	Moderate: too clayey.	Moderate: shrink swell.	Fair: shrink swell.	Unsuited	Unsuited	Fair: too clayey.	Favorable	Low strength, piping.	B

Glendale Series

The Glendale series consists of deep, well drained soils that formed in stratified recent alluvium on the flood plain along the Rio Grande. Slopes are 0 to 1 percent. The native vegetation is principally alkali sacaton, inland saltgrass, vine-mesquite, and fourwing saltbush. Elevations range from 4,850 to 5,050 feet. The mean annual precipitation is 7 to 10 inches, the mean annual air temperature is 58° to 60° F, and the frost-free season is 165 to 185 days. Glendale soils are associated with Gila, Vinton, Armijo, and Anapra soils.

In a representative profile, the surface layer is brown clay loam about 6 inches thick. Below this to a depth of 60 inches or more is mainly stratified light brown to gray silt loam and clay loam. The soil is mildly alkaline or moderately alkaline.

Permeability is moderately slow. Available water capacity is 11 to 12.5 inches. Effective rooting depth is 60 inches or more.

Glendale soils are used for irrigated alfalfa, row crops, and pasture. They are also used for wildlife habitat and community development.

Gm—Glendale clay loam. This level soil is in the Rio Grande Valley. It has the profile described as representative of the series. Slopes are 0 to 1 percent. Included in mapping are small areas of Glendale loam and Gila and Anapra soils.

Runoff is slow, and the hazard of water erosion is slight.

This soil is used for irrigated alfalfa, row crops, and pasture. It is also used for wildlife habitat and community development. The failure of septic tank filter fields and the cracking of foundations can be problems where this soil is used for community development. Irrigated capability unit is I.

Cut and Fill Land

Cu—Cut and fill land consists of sandy loam and very gravelly sand that has been mixed by filling for residential, industrial, and business developments. It is on high terrace breaks of the Rio Grande Valley mainly in the city of Albuquerque. The soil is mildly alkaline or moderately alkaline. Slopes are 1 to 25 percent. Elevation ranges from 4,900 to 6,000 feet. The mean annual precipitation is 7 to 10 inches, the mean annual air temperature is 58° to 60° F, and the frost-free season is 165 to 195 days.

Included in this unit in mapping are a few areas of Bluepoint, Kokan, and Wink soils.

Runoff is slow to very rapid, and the hazard of erosion is slight to severe.

Cut and fill land is used for community development and watershed. Dryland capability subclass VIIe.

HYDROLOGY

	A.P.	D.A.	H	S	L	T_c	SOIL TYPE	% IMP	CN	C	P_2	P_{10}	P_{100}	I_2	I_{10}	I_{100}	Vol_2	Vol_{10}	Vol_{100}	Q_2	Q_{10}	Q_{100}
	AC	AC	FT.	FT./FT.	FT.	MIN		IMP			IN	IN	IN	IN/HR	IN/HR	IN/HR	C.F.	C.F.	C.F.	C.F.S.	C.F.S.	C.F.S.
EXISTING	1.86	8.3	0213	390	3.4	8-A	2	62	40	98	1.45	2.2	2.14	3.16	4.80	Ø	68	878	1.6	2.4	3.6	
DEVELOPED	1.86	8.3	0213	390	3.4	8-A	2	50	264	98	1.45	2.2	2.14	3.16	4.80	Ø	Ø	Ø	1.1	1.6	2.4	

LEGAL DESCRIPTION: TRACTS 386A, 386B, 387, 388, 389 & 390 LOTS 5,6 AND A PORTION OF LOT 7 BLOCK P OF THE EASTERN ADDITION TRACTS A&B AND A VACATED PORTION OF JOHN ST. OF BLOCK H OF THE EASTERN ADDITION AND A PORTION OF THE BARELAS COMMUNITY DITCH LOCATED WITHIN THE N.E. QUARTER OF SECTION 29, T.10 N., R.3 E., N.M.P.M. CITY OF ALBUQUERQUE COUNTY OF BERNALILLO, NEW MEXICO

CITY OF ALBUQUERQUE
PARKS & RECREATION DEPARTMENT
DESIGN & DEVELOPMENT DIVISION

NEIGHBORHOOD PARK AT JOHN & GARFIELD STS.
GRADING & DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. Design			Traffic		
A.C.E. Hydrology			Water		

DRAWING NO. 2905 | MAP NO. L-14-Z | SHEET OF

R# 27 DATE 3-19-92 OP. EGP

CITY OF ALBUQUERQUE

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DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/03/92

PLAN SHOT TWICE ONCE ON LIGHT ONCE ON DARK

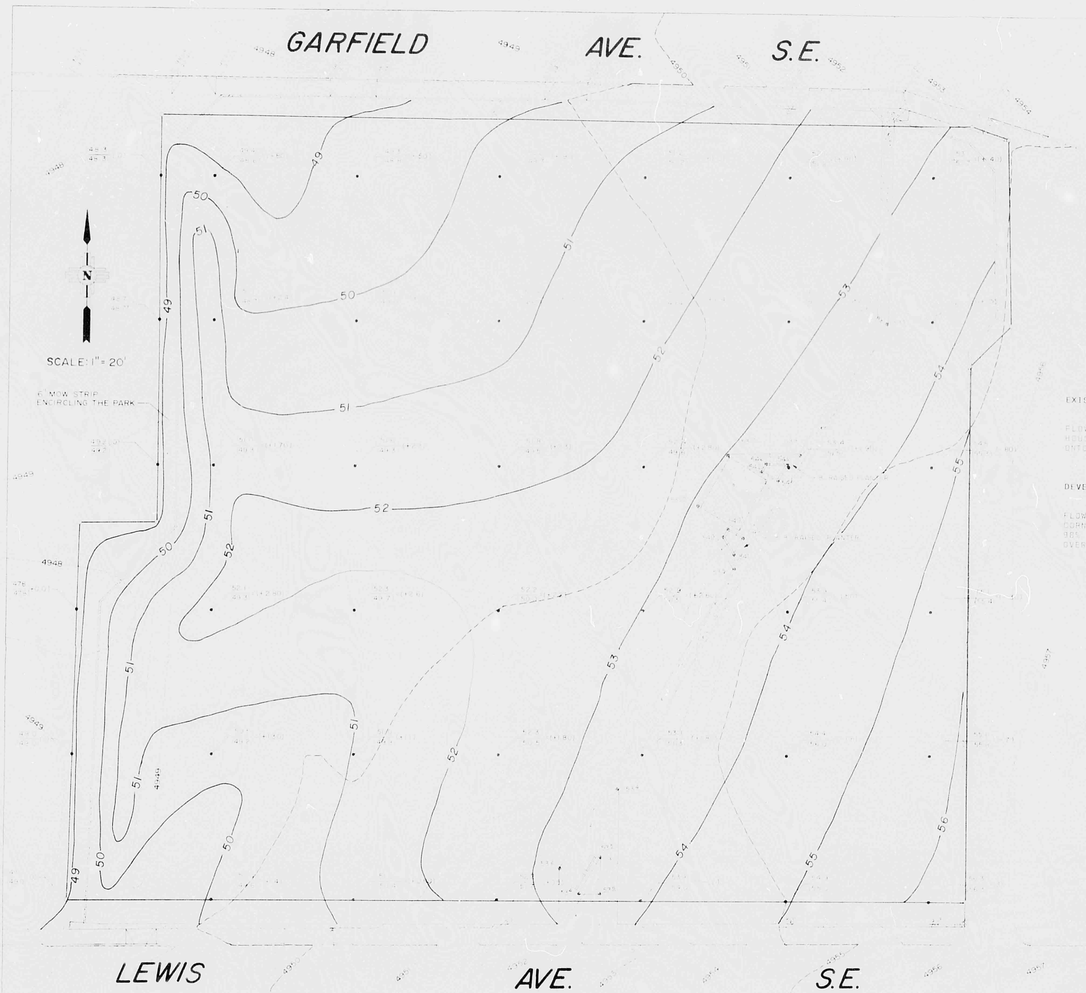
CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

PLANS/PLATS ON FILE

FILE DESC: L14/D23

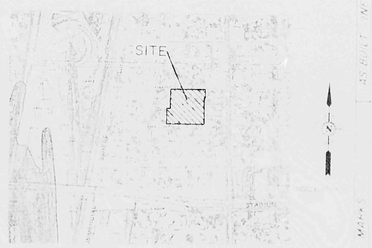
PLANS/PLATS 1

E 30 D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D F



VICINITY MAP
ZONE ATLAS MAP NO. L-14

FLOOD HAZARD MAP & OFFSITE FLOWS
FROM F.E.M.A. MAP NO. 30



SOILS MAP
FROM SOIL SURVEY, BERN. CO. U.S.D.A., S.C.S.

BENCHMARK INFORMATION: THM - TOP OF CURB ON NORTH SIDE OF LEWIS AVE. AT THE S.W. CORNER OF THE PROPERTY.
E. 4948.

EXISTING CONDITIONS:

THE 1.286 ACRE SITE IS CURRENTLY A VACANT LOT WITH RUNOFF FLOWING FROM THE EAST TO THE WEST INTO THE YARDS OF EXISTING HOUSING ON THE WEST PROPERTY LINE. THERE ARE NO OFFSITE FLOWS ONTO THIS PROPERTY FROM THE 100 YEAR STORM.

DEVELOPED CONDITIONS:

THERE WILL BE NO OFFSITE FLOW ONTO THIS PROPERTY. DEVELOPED FLOW WILL BE DIRECTED TO THE NORTHWEST CORNER AND THE SOUTHWEST CORNER WHERE THEY WILL DRAIN THROUGH A CURB CUT INTO THE STREET. SOIL OF THE PARK WILL BE GRADED WITH A SLOPE OF AT LEAST 2% OVER THE WHOLE SITE.

NOTES
TOTAL CUT 343 CUBIC YARDS
TOTAL FILL 4,845 CUBIC YARDS

CONSTRUCTION SAFETY:

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY.

EROSION CONTROL:

THE SITE WILL BE FULLY DEVELOPED IMMEDIATELY. EROSION PROBLEM GENERATED BY PHASED DEVELOPMENT WILL NOT, THEREFORE, BE A PROBLEM.

CONSTRUCTION PHASE: THE CONTRACTOR SHALL EXERCISE REASONABLE CARE DURING CONSTRUCTION TO PREVENT THE MOVEMENT OF SEDIMENT FROM THE SITE INTO THE STREET. LOOSE DIRT, CONCRETE, ASPHALT, ETC. ARISING FROM UTILITY CONNECTION ACTIVITIES SHALL BE PROTECTED FROM BEING CARRIED DOWNHILL BY FLOWING WATER ON THE STREET.

1-7-87
Roger A. Green, P.E. Hydrology

LEGEND

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

SOIL SERIES AND MAP SYMBOL	SCORES AND KINDS OF LIMITATIONS FOR: Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Shallow excavations	Lawns and landscaping	SCORES AND KINDS OF LIMITATIONS OF: Gravel	Sand	Road fill	Topsoil	SOIL PROPERTIES AND FEATURES: Soil reaction (pH)	Susceptibility to erosion (wind and water)	Hydrologic group
Cut and fill land. Gm	Slight. 1 to 3 percent slopes	Slight	Moderate: surface water ponding	Slight. 1 to 3 percent slopes	Moderate: surface water ponding	Slight. 1 to 3 percent slopes	Poor: thin layer	Poor: thin layer	Favorable	Poor: thin layer	Variable	Variable	A
Glendale clay loam. Gn	Severe: water ponding	Slight	Moderate: low strength	Moderate: low strength	Moderate: low strength	Moderate: wetness	Poor: wetness	Poor: wetness	Poorly drained	Poor: wetness	Favorable	Low strength, flooding	D

Glendale Series

The Glendale series consists of deep, well drained soils that formed in stratified recent alluvium on the flood plains of the Rio Grande. Slopes are 0 to 1 percent. The native vegetation is principally alkali sacaton, inland saltgrass, vine-mesquite, and fourwing saltbush. Elevation ranges from 4,500 to 5,000 feet. The mean annual precipitation is 7 to 10 inches, the mean annual air temperature is 56° to 60° F, and the frost-free season is 165 to 185 days. Glendale soils are associated with Gila, Vinton, Arenas, and Anapra soils.

In a representative profile, the surface layer is brown silty loam about 6 inches thick. Below this, to a depth of 60 inches or more, is stratified light brown to gray silt loam and clay loam. The soil is mildly alkaline or moderately alkaline.

Permeability is moderately low. Available water capacity is 11 to 12.5 inches. Effective rooting depth is 60 inches or more.

Glendale soils are used for irrigated alfalfa, row crops, and pasture. Dryland use is for wildlife habitat and community development. The hazard of water erosion is slight.

This soil is used for irrigated alfalfa, row crops, and pasture. Dryland use is for wildlife habitat and community development. The hazard of water erosion is slight. The hazard of flooding is moderate. The hazard of ponding is slight. The hazard of frost action is moderate. The hazard of corrosion is high for uncoated steel and low for concrete. Irrigated crops have yielded:

Gm Glendale clay loam. This level soil is in the Rio Grande Valley. It has the profile described as representative of the series. Slopes are 0 to 1 percent. Included in mapping are small areas of Vinton loam and Gila and Anapra soils.

Runoff is slow, and the hazard of water erosion is slight.

This soil is used for irrigated alfalfa, row crops, and pasture. Dryland use is for wildlife habitat and community development. The hazard of septic tank filter fields and the hazard of foundation cracks be problems where this soil is used for community development. Irrigated crops have yielded:

Cut and Fill Land

Gu Cut and fill land consists of sandy loam and very fine sandy loam that have been graded. Slopes are mostly 1 to 3 percent but some developments have steeper slopes. It is on high terrace breaks of the Rio Grande Valley mainly in the vicinity of Albuquerque. It is mostly level to moderately steep slopes, up to 25 percent. Elevation ranges from 4,900 to 6,000 feet. The average annual precipitation is 7 to 10 inches, the mean annual air temperature is 56° to 60° F, and the frost-free season is 165 to 185 days.

Included in this unit in mapping are a few areas of Bluepoint, Kokan, and Wink soils.

Runoff is slow to very rapid, and the hazard of erosion is slight to severe.

Cut and fill land is used for community development and for wildlife habitat.

HYDROLOGY

EXISTING	100	B	B.3	0213	1.29	3.4	B.A.	2	62	4	98	.45	2.2	2.4	4.6	480	2	68		878		2.4		4.6				
DEVELOPED	100	B	B.3	0213	1.29	3.4	B.A.	2	50	264	98	.45	2.2	2.4	4.6	480	2	4		4		1.1		4		2.4		

LEGAL DESCRIPTION: TRACTS 186A, 186B, 187, 188, 189A, 190, LOTS 5, 6 AND A PORTION OF LOT 7 BLOCK P OF THE EASTERN ADDITION, TRACT A-18 AND A VACATED PORTION OF JOHN ST. OF BLOCK H OF THE EASTERN ADDITION AND A PORTION OF THE BARELAS COMMUNITY DITCH LOCATED IN TWP. 11 N, R. 3 E, SECTION 24, T. 10 N., R. 3 E., SECTION 1, CITY OF ALBUQUERQUE, COUNTY OF BERNALILLO, NEW MEXICO.

CITY OF ALBUQUERQUE
PARKS & RECREATION DEPARTMENT
DESIGN & DEVELOPMENT DIVISION

NEIGHBORHOOD PARK AT JOHN & GARFIELD STS.
GRADING & DRAINAGE PLAN

DRAWN BY	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
Project Engineer			Project Engineer		
Asst. Engr.			Asst. Engr.		
Asst. Engineer			Engineer		
			Water		

DRAW. NO. 2905 | MAP NO. L-14-Z | SHEET | OF

REVISIONS | DATE | BY | REMARKS

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R# 27 DATE 3-29-02 OP 5-7

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Thos. T. Aldridge 4/15/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
07/02/02

D 24 C 20 B 16 A 12

CITY OF ALBUQERQUE C D