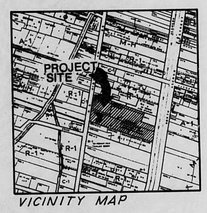
PUBLIC WORKS/HYDROLOGY

B16/D5



VICINITY MAP

LEGAL DESCRIPTION

TRACT 204 C2 & 204 C1, 204 A1A, 204 A1B, MRGCD PROPERTY MAP #23 BERNALILLO COUNTY, NEW MEXICO.

TBM

"O" CHISELED ON TOP OF IRRIGATION HEADWALL @ THE S.W. PROPERTY CORNER. ELEVATION = 5001.786

BENCHMARK

40d NAIL IN POWER POLE LOCATED APPROXIMATELY .3 MILE NORTH OF CAMINO DEL LOS HIJOS ON THE WEST SIDE OF FOURTH STREET OPPOSITE HOUSE #10103 4TH ST. N.W. ELEVATION = 5000.834

TBM "O" CHISELED ON TOP OF IRRIGATION HEADWALL AT THE SOUTH WEST PROPERTY CORNER. ELEV = 5001.786. SEE PLAN FOR LOCATION.

ALAMEDA COMMUNITY CENTER DRAINAGE PLAN

LOCATION AND DESCRIPTION:

THE SITE IS LOCATED ON NORTH FOURTH STREET, BETWEEN ALAMEDA ROAD AND ALAMEDA BOULEVARD IN ALBUQUERQUE, NEW MEXICO. THE SITE IS PRESENTLY DEVELOPED. EXISTING SLOPES ARE FROM THE SOUTH TO THE NORTH AVERAGING 0.30 PERCENT. THE SITE IS NOT LOCATED WITHIN A FLOOD PLAIN.

EXISTING CONDITIONS:

PRESENTLY, RUNOFF FROM THE SITE TENDS TO BE CONVEYED NORTH. THE SITE IS EXTREMELY FLAT SO THE MAJORITY OF RUNOFF PONDS IN LOW SPOTS WHICH ARE LOCATED THROUGHOUT THE SITE. NO OFF-SITE FLOWS ENTER THE SITE DUE TO EXISTING ELEVATIONS.

PROPOSED CONDITIONS:

PROPOSED DEVELOPMENT TO THE SITE INCLUDES A BUILDING ADDITION WITH AN EARTH SWALE. A STORM WATER RETENTION POND WILL BE INCORPORATED INTO THIS DEVELOPMENT. THE POND WILL RETAIN ADDED RUNOFF FROM THE NEW BUILDING ADDITION ONLY. INCORPORATION OF THE POND WILL ALLOW ADDED PONDING CAPACITY TO THE ALREADY EXISTING CONDITION. RUNOFF FROM EXISTING BUILDINGS, RELATED PARKING AND LANDSCAPING AREAS WILL BE UNCHANGED.

CALCULATIONS:

Area: 0.30 acres

I = 2.2 in./hr. Plate 22.2 D-2

6-hour, 100-year rainfall = 2.2 in. Plate 22.2 D-1

Q = (2.2) (2.2) = 4.84 in./hr.

EXISTING ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	COMPOSITE "C"X A	"C"=CIA/A
Streets, Drives, Walks	0.95			
Roofs	0.90			
Lawns & Landscaping	0.25			
Undeveloped	0.40	0.30	0.12	
TOTAL		0.30	0.12	0.4

Q(100) = (0.4) (4.84) (0.3) = 0.58 cfs

Q(10) = (0.457) (0.58) = 0.18 cfs

CN = 68 Plate 22.2 C-2

Direct Runoff = 0.3 in Plate 22.2 C-4

V(100) = (0.3) (0.30) (43560)/12 = 326.7 cu. ft.

V(10) = (0.457) (326.7) = 214.6 cu. ft.

PROPOSED ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	COMPOSITE "C"X A	"C"=CIA/A
Streets, Drives, Walks	0.95	0.11	0.1045	
Roofs	0.90	0.19	0.1710	
Lawns & Landscaping	0.25			
Undeveloped	0.40			
TOTAL		0.30	0.2755	0.92

Q(100) = (0.92) (4.84) (0.30) = 1.34 cfs

Q(10) = (0.457) (1.34) = 0.88 cfs

CN =90 Plate 22.2 C-2

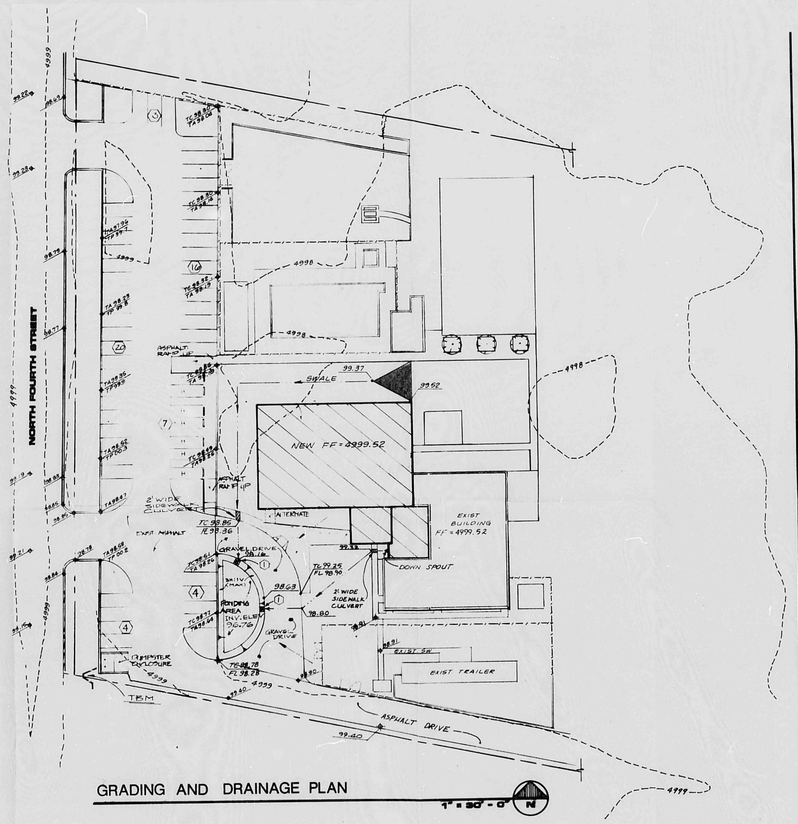
Direct Runoff = 1.3 in Plate 22.2 C-4

V(100) = (1.3) (0.30) (43560)/12 = 1415.7 cu. ft.

V(10) = (0.457) (1415.7) = 935.1 cu. ft.

POND CAPACITY REQUIRED FOR 100-YR. STORM = 1416 cf

POND CAPACITY PROVIDED = 1825 cf



GRADING AND DRAINAGE PLAN

1" = 30' - 0"

N

KEYED NOTES

1. RIP - RAP D_{50} = 6 INCHES, DEPTH = 12 INCHES

LEGEND

PROPERTY LINE	
BUILDING (NEW)	
BUILDING (EXIST)	
FENCE (EXIST)	
CURB	
CONC	
SPOT ELEV. (NEW)	99.40
SPOT ELEV. (EXIST)	99.40
TREE (EXIST)	
CONTOUR (EXIST)	4998
DIRECTION OF FLOW	
RIP-RAP	
TRANSITION	

RECEIVED AUG 28 1990 HYDROLOGY DIVISION

Kells and Craig Architects, Inc.

AIA

SITE DRAINGE PLAN

ALAMEDA COMMUNITY CENTER EXPANSION AND RENOVATION

COUNTY OF BERNALILLO, NEW MEXICO PARKS AND RECREATION DEPARTMENT

3/15/90

C5

R# 24 DATE 3/14/02 DOP

CITY OF ALBUQUERQUE

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PLAN SHOT TWICE ONCE ON LIGHT ONCE ON DARK

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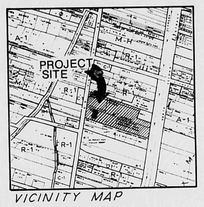
PLANS/PLATS ON FILE

FILE DESC: B16/D5

PLANS/PLATS 1

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



VICINITY MAP

LEGAL DESCRIPTION

TRACT 204 OF ★204 C.I. 204 AND TRACT 1-A, MARGED PROPERTY MAP #23, BERNALILLO COUNTY, NEW MEXICO.

TBM

TBM CHISELED ON TOP OF IRRIGATION HEADWALL @ THE S.W. PROPERTY CORNER ELEVATION = 5001.786

BENCHMARK

"DOUGHNUT" ON POWER POLE LOCATED APPROXIMATELY .3 MILE NORTH OF CAMINO DEL LOS NIJOS ON THE WEST SIDE OF FOURTH STREET OPPOSITE HOUSE #10108 4TH ST. N.W. ELEVATION = 5000.884

TBM "B" CHISELED ON TOP OF IRRIGATION HEADWALL AT THE NOR. TH WEST PROPERTY CORNER. ELEV. = 5001.72A. SEE PLAN FOR LOCATION.

ALAMEDA COMMUNITY CENTER
DRAINAGE PLAN

LOCATION AND DESCRIPTION:

THE SITE IS LOCATED ON NORTH FOURTH STREET, BETWEEN ALAMEDA ROAD AND ALAMEDA BOULEVARD IN ALBUQUERQUE, NEW MEXICO. THE SITE IS PRESENTLY DEVELOPED. EXISTING SLOPES ARE FROM THE SOUTH TO THE NORTH AVERAGING 1.50 PERCENT. THE SITE IS NOT LOCATED WITHIN A FLOOD PLAIN.

EXISTING CONDITIONS:

PRESENTLY, RUNOFF FROM THE SITE TENDS TO BE CONVEYED NORTH. THE SITE IS EXTREMELY FLAT SO THE MAJORITY OF RUNOFF PONDS IN LAW SPOTS WHICH ARE LOCATED THROUGHOUT THE SITE. NO OFF-SITE FLOWS ENTER THE SITE (SEE IN EXISTING ELEVATION).

PROPOSED CONDITIONS:

PROPOSED DEVELOPMENT OF THE SITE INCLUDES A BUILDING ADDITION WITH AN EARTH SWALE. A STORM WATER RETENTION POND WILL BE INCORPORATED INTO THIS DEVELOPMENT. THE POND WILL RETAIN ADDED RUNOFF FROM THE NEW BUILDING ADDITION ONLY. INCORPORATION OF THE POND WILL ALLOW ADDED PONDING CAPACITY TO THE ALREADY EXISTING CONDITION. RUNOFF FROM EXISTING BUILDINGS, RELATED PARKING AND LANDSCAPING AREAS WILL BE UNCHANGED.

CALCULATIONS:

Area: 0.30 acres

1 = 2.2 in./hr. Plate 22.2 D-2

4-hour, 100-year rainfall = 2.2 in. Plate 22.2 D-1

1 = (2.2) (2.2) = 4.84 in./hr.

EXISTING ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	COMPOSITE "C" x A
Streets, Drives, Walks	0.95		
Roofs	0.90		
Lawn & Landscaping	0.25		
Undeveloped	0.40	0.30	0.12
TOTAL		0.30	0.12

Q(100) = (0.4) (4.84) (0.3) = 0.58 cfs

Q(10) = (0.40) (0.58) = 0.18 cfs

CN = 98 Plate 22.2 C-2

Direct Runoff = 0.3 in. Plate 22.2 C-4

V(100) = (0.3) (0.30) (43560)/12 = 326.7 cu. ft.

V(10) = (0.40) (326.7) = 214.4 cu. ft.

PROPOSED ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	COMPOSITE "C" x A
Streets, Drives, Walks	0.95	0.21	0.1995
Roofs	0.90	0.19	0.1710
Lawn & Landscaping	0.25		
Undeveloped	0.40		
TOTAL		0.40	0.2705

Q(100) = (0.92) (4.84) (0.30) = 1.34 cfs

Q(10) = (0.65) (1.34) = 0.88 cfs

CN =90 Plate 22.2 C-2

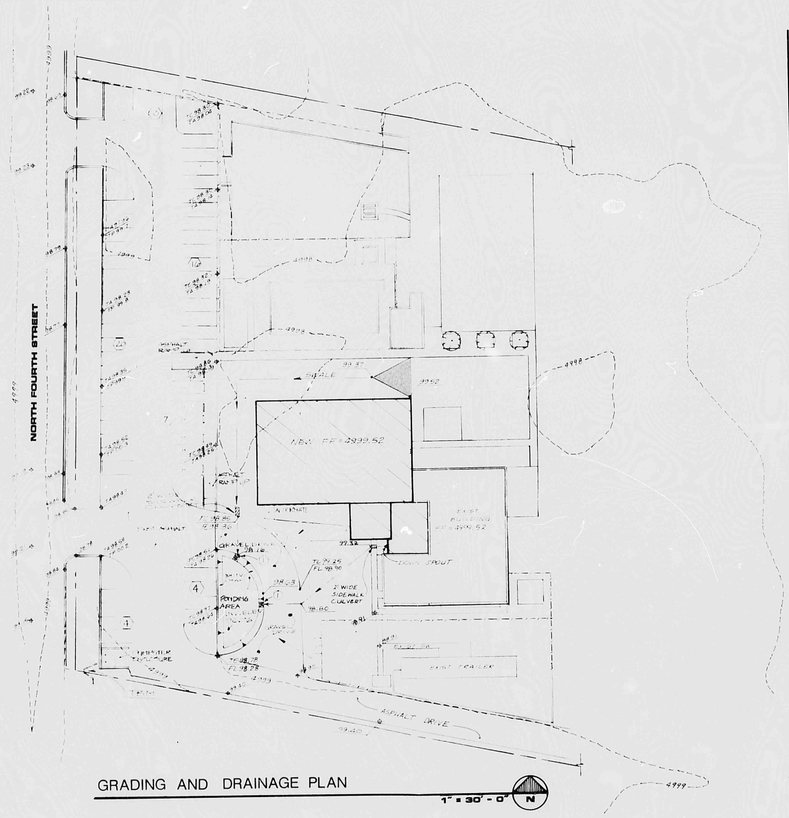
Direct Runoff = 1.3 in. Plate 22.2 C-4

V(100) = (1.3) (0.30) (43560)/12 = 1415.7 cu. ft.

V(10) = (0.65) (1415.7) = 920.1 cu. ft.

POND CAPACITY REQUIRED FOR 100-YR. STORM = 1416 CF

POND CAPACITY PROVIDED = 1825 CF



GRADING AND DRAINAGE PLAN

1" = 30' - 0"

KEYED NOTES

1 RIP-RAP Dia. = 6 INCHES, DEPTH = 12 INCHES

LEGEND

PROPERTY LINE
BUILDING (PROP.)
BUILDING (EXIST.)
FENCE (EXIST.)
CURB
CONC.
FFE = ELEV. (SPOT)
FLOW ELEV. (SPOT)
GRADE (EXIST.)
CONTOUR (EXIST.)
DIRECTION OF FLOW
RIP-RAP
TRANSITION

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AUG 28 1990
HYDROLOGY DIVISION

Kells and Craig
Architects, Inc.
AIA
812 Barn. L.P. Albuquerque N.M. 87102 (505) 243 - ARCH (2274)

SITE DRAINGE PLAN

ALAMEDA COMMUNITY CENTER
EXPANSION AND RENOVATION
COUNTY OF BERNALILLO, NEW MEXICO
PARKS AND RECREATION DEPARTMENT

5-16-90

C5

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R# 24 DATE 5-16-90 OP

CITY OF ALBUQUERQUE

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DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Robert Dhiman
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires
8/16/92

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