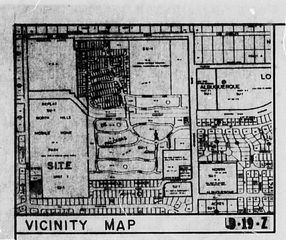
PUBLIC WORKS/HYDROLOGY

D19/D10A

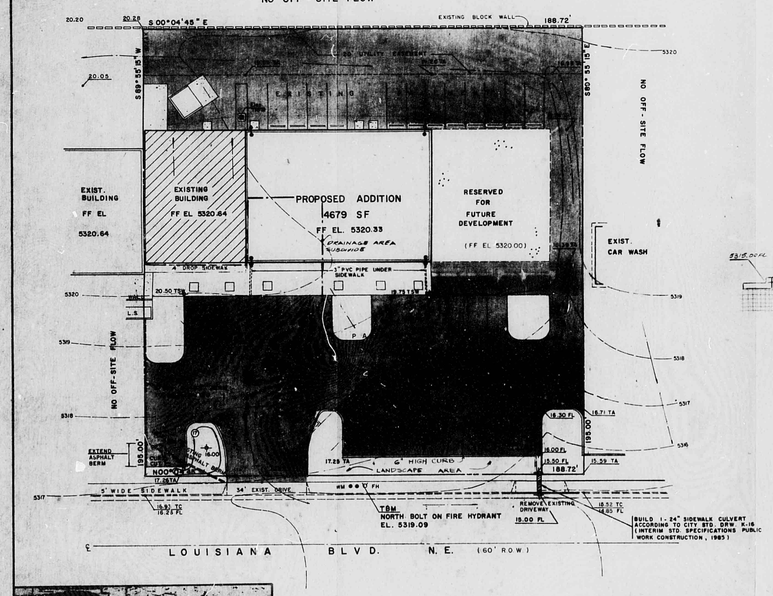


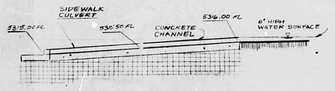
VICINITY MAP D-19-Z

N

SCALE 1" = 20'

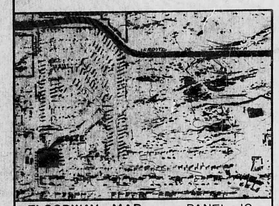
NO OFF - SITE FLOW





WEIR ANALYSIS
TOTAL FLOW ENTERING CULVERT
Q = (28936 / 36,800)(3.42) = 2.68 CFS

CULVERT CAPACITY
$Q = CLH^{3/2}$ L = 2' H = 6" (MIN.)
C = 3.27 + 0.40 H/P C (MIN) = 3.27
$Q = (3.27)(2)(1)^{3/2}$ = 6.54 CFS > 2.68 CFS ∴ OK



FLOODWAY MAP PANEL 10

LEGEND

5316	EXISTING CONTOUR
15.56	PROPOSED CONTOUR
+ 20.17	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
TC	TOP OF CURB
TA	TOP OF ASPHALT
FL	FLOW LINE
	DIRECTION OF ROOF DRAIN
	FLOW DIRECTION

GRADING AND DRAINAGE PLAN
FOR
LOT 2 - B
NORTH HILL SHOPPING CENTER

DATA

AREA OF THE SITE	36,800 SF	0.84 ac.
SLOPE	2.39%	E TO W
SOILS GROUP	B	
TIME OF CONCENTRATION	10 MINUTES (MINIMUM)	
RAINFALL (PL 22.2 D-1 DPM)	2.35 IN	
INTENSITY I	$= (6.84)(P_6)/T^{0.51}$	= 4.97 IN/HR

EXISTING CONDITION

The parking area is paved. The site of proposed building is natural soil.

impervious coverage	77.20%
'c' factor	= (0.77)(0.90) + (0.23)(0.40) = 0.76
Q_{100} = CIA = (0.76)(4.97)(0.84)	= 3.17 cfs
$Q_{10} = 0.625\ Q_{100}$	= 1.98 cfs

Existing runoff discharges into Louisiana Boulevard.

OFF-SITE FLOW

The site has a gentle slope east to west. the existing block wall along the east property line is intercepting any runoff from that direction

PROPOSED SITE RUN-OFF

type of building	"C"	area (SF)	C X A
Building	0.90	7,154	6421
Asphalt and concrete	0.95	23,922	22 340
Landscape and natural	0.25	5,144	1,286

weighted 'c' factor $= \frac{30,420}{36,800} = 0.82$

$Q_{100} = (0.82)(4.97)(0.84)$ = 3.42 cfs

$Q_{10} = 0.625\ Q_{100}$ = 2.14 cfs

DISPOSAL

Free discharge to Louisiana Boulevard, increase in peak runoff is + 0.25 cfs. The site development is urban infill area. The parking area is completely paved. the site is not located in a flood zone. Runoff will travel west on San Francisco which has been improved. Construction of proposed building has a minimum impact on the area. Runoff will travel west on curb and gutter at San Francisco Road, and finally will drain into the ditches along the Frontage Road.

LEGAL DESCRIPTION

Lot 2-B North Hill Shopping Center

BENCHMARK INFORMATION

Sta. NM ACS "D-18-S" a 60 penny nail in power pole, located at SW corner of Louisiana and Pino Avenue. El. 5316.127

EROSION CONTROL STATEMENT

1. The contractor shall ensure that no soil erodes from the site into public R.O.W. or into private property. This can be achieved by constructing berms at property line and wetting the soil to keep it from blowing.
2. This is the contractors responsibility to obtain a top soil disturbance permit from the environmental health department.

RECEIVED AUG 12 1986 HYDROLOGY SECTION

DATE: JUNE 16, 1986
REVISED AUG. 4, 1986 (D.D.19)
REVISED AUG 12, 1986 (CULVERT CAPACITY)

RICHARD V. HALL NEW MEXICO 5319 REGISTERED PROFESSIONAL ENGINEER

HALL ENGINEERING COMPANY INC.
337 EUBANK N.E., SUITE 103
ALBUQUERQUE, NEW MEXICO 87123
Phone: (505) 292-1115 & 292-1116

86-343

REV 24 DATE 3-15-02 OP EP

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DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL Roberta Duran NOTARY PUBLIC STATE OF NEW MEXICO

PLAN SHOT TWICE ONCE ON LIGHT ONCE ON DARK

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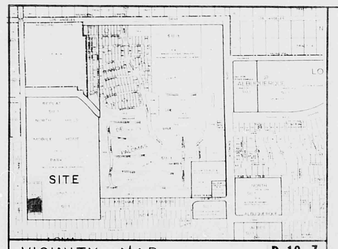
PLANS/PLATS ON FILE

FILE DESC: D19/D10A

PLANS/PLATS 4

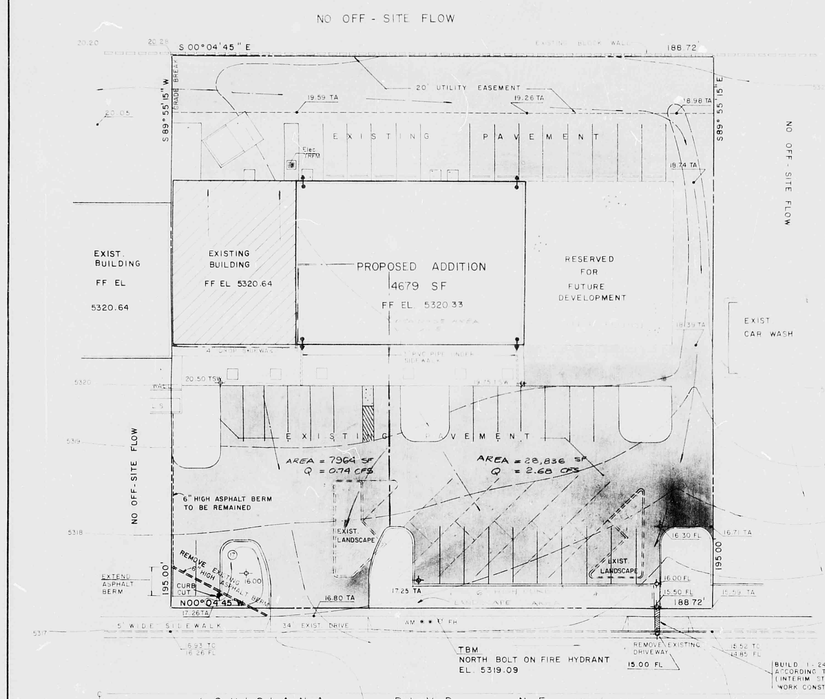
E 30 D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D F

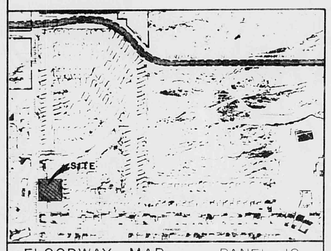


VICINITY MAP D-19-Z

SCALE 1" = 20'

GRADING AND DRAINAGE PLAN
FOR
LOT 2 - B
NORTH HILL SHOPPING CENTER





FLOODWAY MAP PANEL 10

DATA

AREA OF THE SITE	36,800 SF	0.84 ac.
SLOPE	2.39%	E TO W
SOILS GROUP	B	
TIME OF CONCENTRATION	10 MINUTES	(MINIMUM)
RAINFALL (PL 22.2 D-1 DPM)	2.35 IN	
INTENSITY $i = (6.84)(P_6)/T^{0.51}$		= 4.97 IN/HR

EXISTING CONDITION

The parking area is paved. The site of proposed building is natural soil.

Impervious Coverage	77.20%
"C" factor	= (0.77)(0.90) + (0.23)(0.40) = 0.76
Q_{100} = CIA = (0.76)(4.97)(0.84)	= 3.17 cfs
Q_{10} = 0.625 Q_{100}	= 1.98 cfs

Existing runoff discharges into Louisiana Boulvard.

OFF-SITE FLOW

The site has a gentle slope east to west. The existing block wall along the east property line is intercepting any runoff from that direction.

PROPOSED SITE RUN-OFF

Type of Building	"C"	Area (ac)	C x A
Building	0.90	0.34	0.31
Asphalt and concrete	0.95		
Landscape and natural	0.25		

Weighted "C" factor = $\frac{\quad}{36,800}$ =

Q_{100} = (0.[illegible])(4.97)(0.84) = [illegible] cfs

Q_{10} = 0.625 Q_{100} = [illegible] cfs

DISPOSAL

Free discharge to Louisiana Boulvard. Increase in peak runoff is + 0.[illegible] cfs. The site development is urban infill area. The parking area is completely paved. The site is not located in a flood zone. Runoff will travel west on San Francisco which has been improved. Construction of proposed building has a minimum impact on the area. Runoff will travel west on curb and guttered San Francisco Road, and finally will drain into the ditches along the Frontage Road.

LEGAL DESCRIPTION

Lot 2-B North Hill Shopping Center

BENCHMARK INFORMATION

Sta. NM ACS "D-18-3" a 60 penny nail in power pole located at SW corner of Louisiana and Pine Avenue. El. 5316.127

EROSION CONTROL STATEMENT

1. The contractor shall ensure that no soil erodes from the site into public R.O.W. or into private property. This can be achieved by constructing berms at property line and wetting the soil to keep it from blowing.
2. This is the contractors responsibility to obtain a top soil disturbance permit from the enviromental health department.

LEGEND

5510	EXISTING CONTOUR
5512	PROPOSED CONTOUR
5.52	EXISTING SPOT ELEVATION
5.17	PROPOSED SPOT ELEVATION
TC	TOP OF CURB
TA	TOP OF ASPHALT
FL	FLOW LINE
	DIRECTION OF ROOF DRAIN
	FLOW DIRECTION

DATE: JUNE 16, 1986
REVISED AUG. 4, 1986 (S.O.19)
REVISED AUG. 12, 1986 (CULVERT CAPACITY)

HALL ENGINEERING COMPANY INC.
337 EUBANK N.E. SUITE 103
ALBUQUERQUE, NEW MEXICO 87123
Phones (505) 292-1115 & 292-1116

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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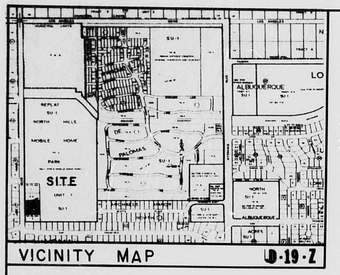
07/02/02

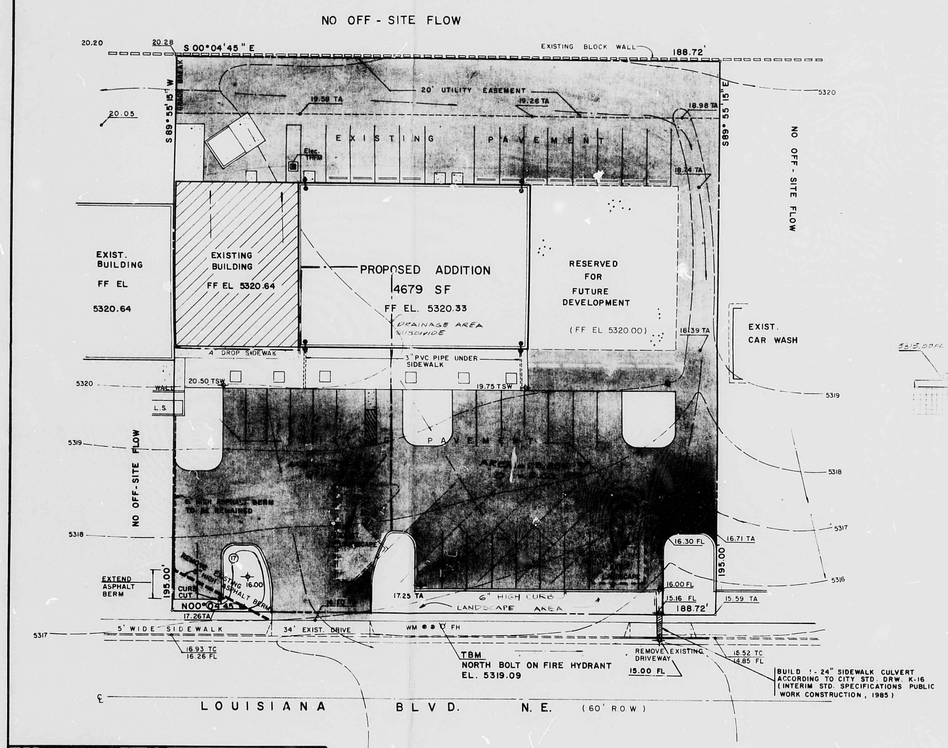
86-348

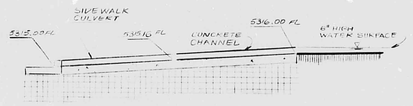
D24 C20 B16 A12 CITY OF ALBUQERQUE C D



SCALE 1" = 20'

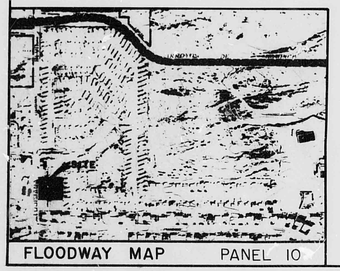
GRADING AND DRAINAGE PLAN
FOR
LOT 2-B-1
NORTH HILL SHOPPING CENTER





WEIR ANALYSIS
TOTAL FLOW ENTERING CULVERT
Q = (88756/36,800)(3.42) = 2.68 CFS

CULVERT CAPACITY
$Q = CLH^{3/2}$ L = 2' H = 6" (MIN.)
$C = 3.27 + 0.40\ H/P$ C (MIN) = 3.27
$Q = (3.27)(2)(1)^{3/2} = 6.54$ CFS > 2.68 CFS ∴ OK



LEGEND

5316	EXISTING CONTOUR
18	PROPOSED CONTOUR
15.52	EXISTING SPOT ELEVATION
20.17	PROPOSED SPOT ELEVATION
TC	TOP OF CURB
TA	TOP OF ASPHALT
FL	FLOW LINE
	DIRECTION OF ROOF DRAIN
	FLOW DIRECTION

DATA

AREA OF THE SITE	36,800 SF	0.84 ac.
SLOPE	2.39%	E TO W
SOILS GROUP	B	
TIME OF CONCENTRATION	10 MINUTES	(MINIMUM)
RAINFALL (PL 22.2 D-1 DPM)	2.35 IN	
INTENSITY I	$= (6.84)(R_6)/T^{0.51}$	= 4.97 IN/HR

EXISTING CONDITION

The parking area is paved. The site of proposed building is natural soil.

impervious coverage	77.20%
"C" factor	= (0.77)(0.90) + (0.23)(0.40) = 0.76
Q_{100} = CIA = (0.76)(4.97)(0.84)	= 3.17 cfs
$Q_{10} = 0.625\ Q_{100}$	= 1.98 cfs

Existing runoff discharges into Louisiana Boulvard.

OFF-SITE FLOW

The site has a gentle slope east to west, the existing block wall along the east property line is intercepting any runoff from that direction.

PROPOSED SITE RUN-OFF

type of building	"C"	area (SF)	C x A
Building	0.90	7,134	6421
Asphalt and concrete	0.95	23,522	22,346
Landscape and natural	0.25	2,144	1,536

weighted "C" factor $= \frac{30,303}{36,800} = 0.82$

$Q_{100} = (0.82)(4.97)(0.84)$ = 3.42 cfs

$Q_{10} = 0.625\ Q_{100}$ = 2.14 cfs

DISPOSAL

Free discharge to Louisiana Boulvard, increase in peak runoff is + 0.25 cfs. The site development is urban infill area. The parking area is completely paved, the site is not located in a flood zone. Runoff will travel west on San Francisco which has been improved. Construction of proposed building has a minimum impact on the area. Runoff will travel west on curb and guttered San Francisco Road, and finally will drain into the ditches along the Frontage Road.

LEGAL DESCRIPTION

Lot 2-B-1 North Hill Shopping Center

BENCHMARK INFORMATION

Sta. NM ACS "D-18-5" a co penny nail in power pole, located at SW corner of Louisiana and Pino Avenue. El. 5316.127

EROSION CONTROL STATEMENT

1. The contractor shall ensure that no soil erodes from the site into public R.O.W. or into private property. This can be achieved by constructing berms at property line and wetting the soil to keep it from blowing.
2. This is the contractors responsibility to obtain a top soil disturbance permit from the environmental health department.

S.O.-19
F.B.
10-20-86

RICHARD V. HALL
REGISTERED PROFESSIONAL ENGINEER
NO. 7519

AUG 12 1986
HYDROLOGY SECTION

DATE: JUNE 16, 1986

REVISED AUG. 4, 1986 (S.O.19)
REVISED AUG 12, 1986 (CULVERT CAPACITY)
REVISED AUG. 20, 1986 (LEGAL DESCRIPTION)

HALL ENGINEERING COMPANY INC.
337 EUBANK N.E., SUITE 103
ALBUQUERQUE, NEW MEXICO 87123
Phones: (505) 292 1115 & 292 1116

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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R 34 DATE 3-15-02 OP EP

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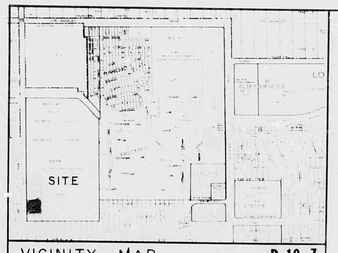
DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/03/02

86-343

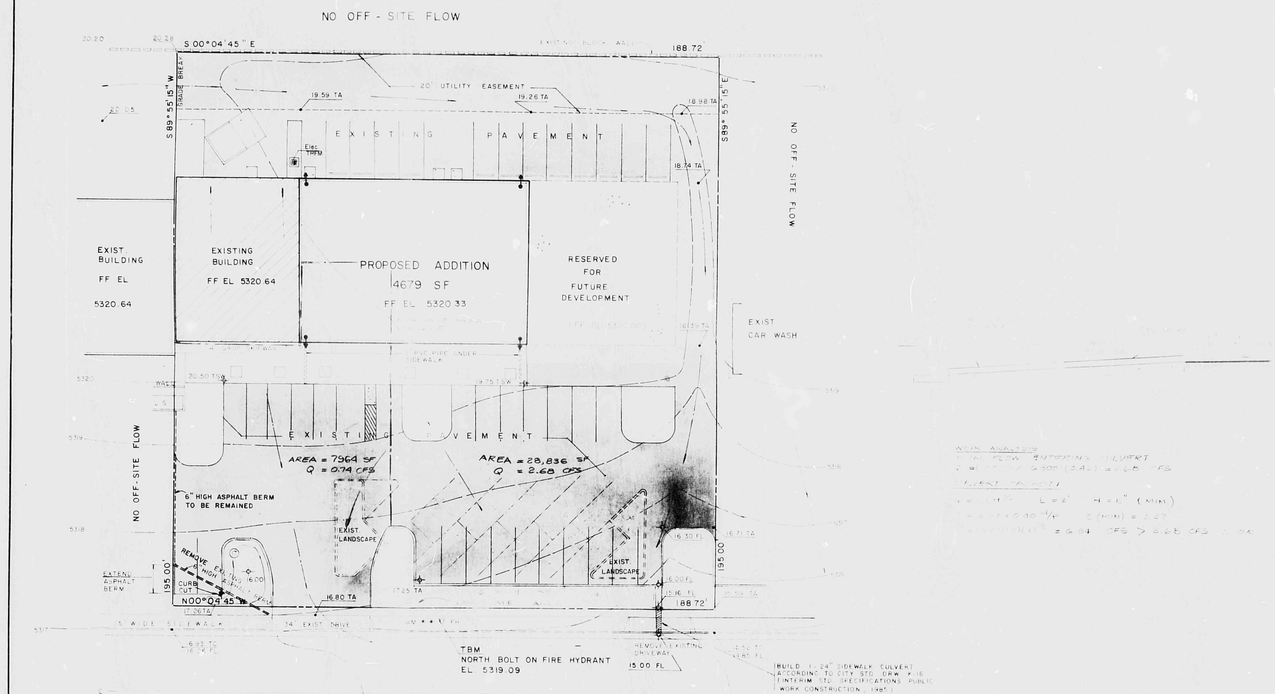
D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D

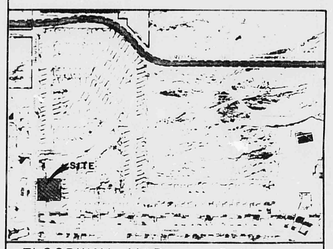


VICINITY MAP D-19-Z

SCALE 1" = 20'

GRADING AND DRAINAGE PLAN
FOR
LOT 2-B-1
NORTH HILL SHOPPING CENTER





FLOODWAY MAP PANEL 10

86-343

DATA

AREA OF THE SITE	36,800 SF	0.84 ac.
SLOPE	2.39%	E TO W
SOILS GROUP	B	
TIME OF CONCENTRATION	10 MINUTES	(MINIMUM)
RAINFALL (PL 22.2 D-1 DPM)	2.35 IN	
INTENSITY I	$= (6.84)(R_6)/T^{0.51}$	= 4.97 IN/HR

EXISTING CONDITION

The parking area is paved. The site of proposed building is natural soil.

Impervious Coverage	77.20%
"C" factor	= (0.77)(0.90) + (0.23)(0.40) = 0.76
Q_{100} = CIA = (0.76)(4.97)(0.84)	= 3.17 cfs
$Q_{10} = 0.625\ Q_{100}$	= .98 cfs

Existing runoff discharges into Louisiana Boulvard.

OFF-SITE FLOW

The site has a gentle slope east to west. The existing block wall along the east property line is intercepting any runoff from that direction.

PROPOSED SITE RUN-OFF

Type of Building	"C"	area (SF)	C x A
Building	0.90	7,154	6421
Asphalt and concrete	0.95	[illegible]	[illegible]
Landscape and natural	0.25	[illegible]	[illegible]

weighted "C" factor = [illegible] / 36,800 = [illegible]

Q_{100} = (6.97)(4.97)(0.84) = [illegible] cfs

$Q_{10} = 0.625\ Q_{100}$ = [illegible] cfs

DISPOSAL

Free discharge to Louisiana Boulvard. Increase in peak runoff is [illegible] cfs. The site development is urban infill area. The parking area is completely paved. The site is not located in a flood zone. Runoff will travel west on San Francisco which has been improved. Construction of proposed building has a minimum impact on the area. Runoff will travel west on curb and guttered San Francisco Road, and finally will drain into the ditches along the Frontage Road.

LEGAL DESCRIPTION

Lot 2-B-1 North Hill Shopping Center

BENCHMARK INFORMATION

Sta. NM ACS "D-18-3" a 60 penny nail in power pole located at SW corner of Louisiana and Pine Avenue. El. 5316.27

EROSION CONTROL STATEMENT

1. The contractor shall ensure that no soil erodes from the site into public R.O.W. or into private property. This can be achieved by constructing berms at property line and wetting the soil to keep it from blowing.
2. This is the contractors responsibility to obtain a top soil disturbance permit from the environmental health department.

SO-19
F.B.
10-20 Eb

DATE: JUNE 16, 1986

REVISED AUG 4, 1986 (S.O.19)
REVISED AUG 12, 1986 (CULVERT CAPACITY)
REVISED AUG 27, 1986 (LEGAL DESCRIPTION)

LEGEND

5320	EXISTING CONTOUR
5320	PROPOSED CONTOUR
● 5320	EXISTING SPOT ELEVATION
✚ 5320.77	PROPOSED SPOT ELEVATION
TC	TOP OF CURB
TA	TOP OF ASPHALT
FL	FLOW LINE
↔	DIRECTION OF ROOF DRAIN
→	FLOW DIRECTION

HALL ENGINEERING COMPANY INC.
317 EUBANK N.E. SUITE 103
ALBUQUERQUE, NEW MEXICO 87123
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PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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R# 34 DATE 3-15-02 OP

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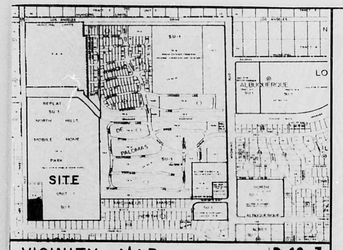
DIRECTOR

NOTARY PUBLIC
OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires
07/03/02

D24 C20 B16 A12 CITY OF ALBUQERQUE C D

PUBLIC WORKS/HYDROLOGY 2 of 2

D19/D10A

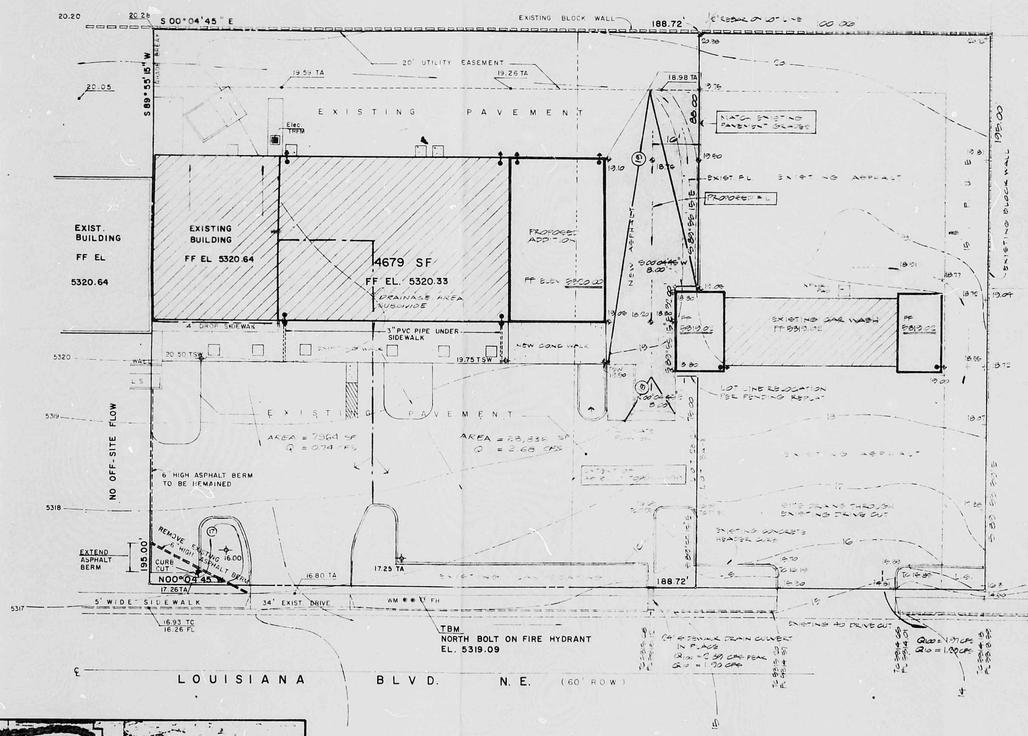


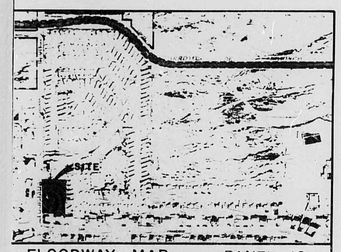
VICINITY MAP D-19-Z

N

SCALE 1" = 20'

NO OFF - SITE FLOW





FLOODWAY MAP PANEL 10

LEGEND

5316	EXISTING CONTOUR
5316	PROPOSED CONTOUR
15.52	EXISTING SPOT ELEVATION
20.17	PROPOSED SPOT ELEVATION
TC	TOP OF CURB
TA	TOP OF ASPHALT
FL	FLOW LINE
↔	DIRECTION OF ROOF DRAIN
	FLOW DIRECTION

RENOVATE & REPLACE AND OR NEW ASPHALT OVERLAY

ADDITIONS TO CENTER
REVISED JANUARY 18, 1988

NOTES:

1. REVISED TO SHOW ADDITION TO COMMERCIAL BUILDING ON LOT 2B-2 AND RELOCATE FLOWLINE IN PAVEMENT
2. ADDED AREA OF LOT 3A-1 TO GENERAL PLAN
3. ADDITIONS TO CAR WASH ON LOT 3A-1
4. PROPOSED ALTERATION OF INTERIOR LOT LINE INVOLVING 3 x 3K AREA PER PENDING REPLAT SHOWN

DATA: LOT 3A-1

AREA 19,244 SQ FT (.44 AC)
SLOPE .5% EAST TO WEST
REMAINDER OF INFORMATION PER TABLE 2.B.1 →

EXISTING CONDITIONS

ENTIRE AREA PAVED OR COVERED BY BUILDING
IMPERVIOUS COVERAGE 97 %
C = .9((.03 x .40) + .97 x .95) = .90
Q_{100} = 50 x 4.97 IN HR x .44 AC = 1.07 CFS PEAK
Q_{10} = .625 Q_{100} = 1.03 CFS

EXISTING RUNOFF IS ROUTED VIA GRADED IN ASPHALT NAT TO LOUISIANA BOULEVARD

OFF-SITE FLOWS

NONE. BLOCK WALL EXISTS ON EAST AND SOUTH SIDES. ENTER IN ASPHALT INTERCEPTS RUNOFF FROM LOT 2B-2 AND DIRECTS THEM TO LOUISIANA BLVD VIA 24" SIDEWALK DRAIN CULVERT IN PLACE

PROPOSED SITE RUNOFF

NO CHANGE OVERALL ROUTING OF THE PARTS AS FOR LOT 2B-2

PROPOSED ELEVATIONS SHOWN IN RELOCATED FLOWLINE IN PAVEMENT ARE TO FINISHED GRADE. CONTRACTOR SHALL DESIGNATE APPROPRIATE SUBGRADE

Richard Hall
1-18-88

GRADING AND DRAINAGE PLAN

FOR

LOTS 2B-2 AND 3A-1

NORTH HILL SHOPPING CENTER

DATA LOT 2B-2

AREA OF THE SITE	36,244 SF	0.84 ac.
SLOPE	2.39 %	E TO W
SOILS GROUP	B	
TIME OF CONCENTRATION	10 MINUTES	(MINIMUM)
RAINFALL (PL 22.2 D-1 DPM)	2.35 IN	
INTENSITY I	$= (6.84)(R_6)/T^{0.51}$	= 4.97 IN/HR

EXISTING CONDITION

The parking area is paved. The site of proposed building is natural soil.

impervious coverage 77.20 %
'c' factor = (0.77)(0.90) + (0.23)(0.40) = 0.76
Q_{100} = CIA = (0.76)(4.97)(0.84) = 3.17 cfs
Q_{10} = 0.625 Q_{100} = 1.98 cfs

Existing runoff discharges into Louisiana Boulvard.

OFF-SITE FLOW

The site has a gentle slope east to west, the existing block wall along the east properly line is intercepting any runoff from that direction

PROPOSED SITE RUN-OFF

type of building	"C"	area (SF)	C x A
Building	0.90	30,948	31,143
Asphalt and concrete	0.95	4,100	0,390
Landscape and natural	0.25	1,296	0,13

weighted "c" factor = 31,533 / 36,244 = 0.87
Q_{100} = (0.87)(4.97)(0.84) = 3.26 cfs PEAK
Q_{10} = 0.625 Q_{100} = 2.03 cfs

DISPOSAL

Free discharge to Louisiana Boulvard, increase in peak runoff is 1.0 cfs. The site development is urban infill area. The parking area is completely paved the site is not located in a flood zone. Runoff will travel west on San Francisco which has been improved. Construction of proposed building has a minimum impact on the area. Runoff will travel west on curb and guttered San Francisco Road, and finally will drain into the ditches along the Frontage Road.

LEGAL DESCRIPTION

Lot 2-B-1 North Hill Shopping Center

BENCHMARK INFORMATION

Sta. NM ACS "D-18-S" a 60 penny nail in power pole, located at SW. corner of Louisiana and Pine Avenue. El. 5316.127

EROSION CONTROL STATEMENT

1. The contractor shall ensure that no soil erodes from the site into public R.O.W. or into private property. This can be achieved by constructing berms at property line and wetting the soil to keep it from blowing.
2. This is the contractors responsibility to obtain a top soil disturbance permit from the enviromental health department.

RECEIVED
JAN 18 1988
HYDROLOGY SECTION

DATE: JUNE 16, 1986
REVISED AUG. 4, 1986 (S.O.19)
REVISED AUG. 12, 1986 (CULVERT CAPACITY)
REVISED AUG. 20, 1986 (LEGAL DESCRIPTION)

RICHARD V. HALL
NEW MEXICO
8123
REGISTERED PROFESSIONAL ENGINEER

HALL ENGINEERING COMPANY INC.
337 EUBANK N.E., SUITE 103
ALBUQUERQUE, NEW MEXICO 87123
Phones: (505) 292 1115 & 292 1116

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.

R# 24 DATE 3-15-02 OP ESP

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 and was created in the normal course of business.

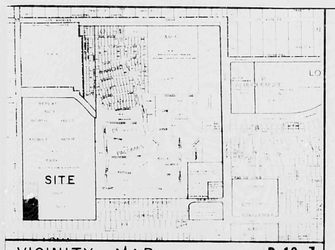
The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS1A5-1977)

DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 07/03/02

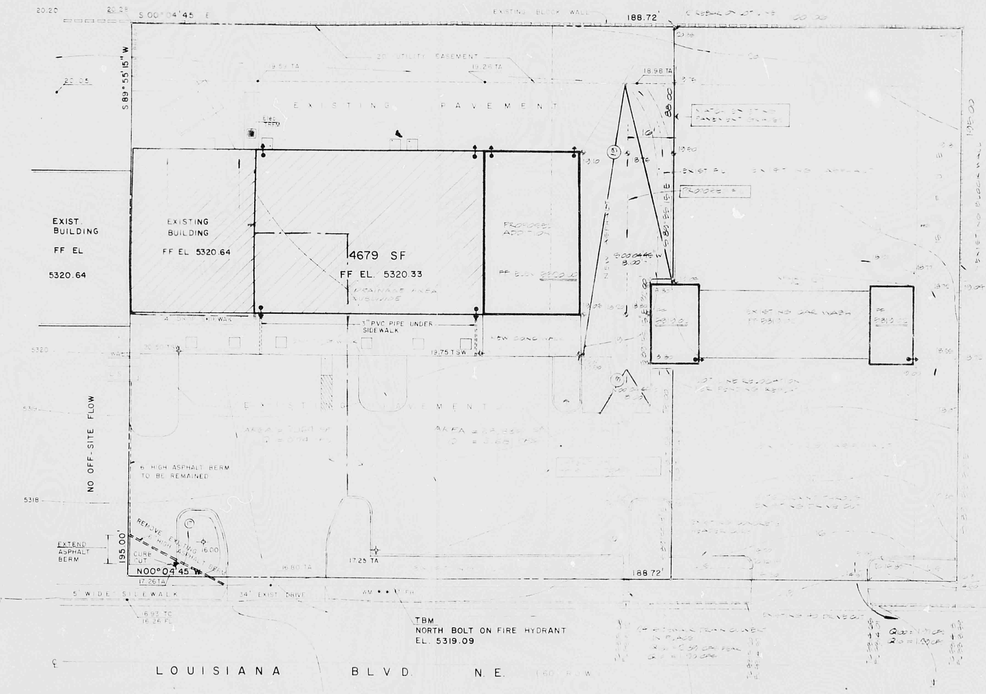
D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D

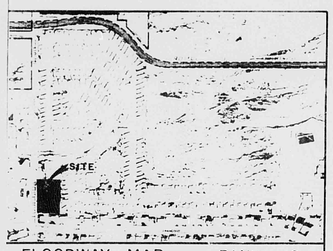


VICINITY MAP D-19-Z

SCALE 1" = 20'

NO OFF - SITE FLOW





FLOODWAY MAP PANEL 10

LEGEND

	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
TC	TOP OF CURB
TA	TOP OF ASPHALT
FL	FLOW LINE
	DIRECTION OF ROOF DRAIN
	FLOW DIRECTION

ADDITIONS TO CENTER
REVISED JANUARY 18, 1988

NOTES

REVISED TO SHOW ADDITION TO CONVENIENCE STORE IN LOT 12 & 13 AND REDUCING PARKING AT EAST AREA OF LOT 11A1 TO PROVIDE FOR ADDITIONS TO SIDEWALK IN LOT 11A1.
PROPOSED ADDITION OR REMODELING OF STORES IN LOT 12 & 13 NOT PROPOSED AT THIS TIME AS SHOWN

DATA LOT 11A1

AREA
ZONE
ZONING REQUIRED PARKING FOR LOT 11A1

EXISTING CONDITIONS

SITE HAS AREA PARKING AND CONVENIENCE STORE WITH OPEN DIRT ON EAST
Q_{100} = CIA = (0.72)(4.97)(3.84) = 10
Q_{100} TO EAST BLVD = 10 CFS
Q_{10} TO EAST BLVD = 1.25 CFS
EXISTING RUNOFF TO EAST BLVD IS CONVEYED IN CURB AND GUTTER ALONG EAST TO LOUISIANA BOULEVARD

PROPOSED SITE PLAN

NONE. FLOW WILL EXIT IN SAME AREAS AS EXISTING. SOME FLOW IN ADDITION TO EXISTING FLOW LOT 12 & 13 WILL EXIT EAST TO LOUISIANA BOULEVARD VIA CURB AND GUTTER IN PLACE

PROPOSED SITE & LOTS

NO CHANGE

PLANS SHOWN ARE BASED ON INFORMATION PROVIDED BY OWNER AND PROVIDED BY THE CONTRACTOR. ALL FIELDING AND VERIFICATION OF DIMENSIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

Richard Hall
1-18-88

GRADING AND DRAINAGE PLAN

FOR

LOT 12 & 13 AND 11A1

NORTH HILL SHOPPING CENTER

DATA

AREA OF THE SITE	36,[illegible] SF	0.84 ac.
SLOPE	2.39%	E TO W
SOILS GROUP	B	
TIME OF CONCENTRATION	10 MINUTES	(MINIMUM)
RAINFALL (PL 22 2 DPM	2.35 IN	
INTENSITY I	$= (6.84)(T_c)^{-0.51}$	= 4.97 IN/HR

EXISTING CONDITION

The parking area is paved. The site of proposed building is natural soil.

Impervious coverage	77.20%
"c" factor	= (0.77)(0.90) + (0.23)(0.40) = 0.76
Q_{100} = CIA = (0.76)(4.97)(3.84)	= 3.17 cfs
$Q_{10} = 0.625\ Q_{100}$	= 1.98 cfs

Existing runoff discharges into Louisiana Boulvard.

OFF-SITE FLOW

The site has a gentle slope east to west. The existing block wall along the east property line is intercepting any runoff from that direction.

PROPOSED SITE RUN-OFF

Type of building	"C"	area (SF)	C x A
Building	0.90	[illegible]	[illegible]
Asphalt and concrete	0.95	[illegible]	[illegible]
Landscape and natural	0.25	[illegible]	[illegible]

weighted "c" factor = [illegible] / [illegible] = [illegible]

Q_{100} = (0.[illegible])(4.97)(0.84) = [illegible] cfs Peak

Q_{10} = 0.[illegible] Q_{100} = [illegible] cfs

DISPOSAL

Free discharge to Louisiana Boulvard. Increase in peak runoff is [illegible] cfs. The site development is urban infill area. The parking area is completely paved. The site is not located in a flood zone. Runoff will travel west on San Francisco which has been improved. Construction of proposed building has a minimum impact on the area. Runoff will travel west on curb and guttered San Francisco Road, and finally will drain into the ditches along the Frontage Road.

LEGAL DESCRIPTION

Lot 2-B-1 North Hill Shopping Center

BENCHMARK INFORMATION

Sta. NM ACS "D-18-3" a 60 penny nail in power pole located at SW corner of Louisiana and Pino Avenue. El. 5316.127

EROSION CONTROL STATEMENT

1. The contractor shall ensure that no soil erodes from the site into public R.O.W. or into private property. This can be acheived by constructing berms at property line and wetting the soil to keep it from blowing.
2. This is the contractors responsibility to obtain a low soil disturbance permit from the enviromental health department.

RECEIVED
JAN 20 1988
HYDROLOGY SECTION

DATE: JUNE 16, 1986

REVISED AUG 4, 1986 (S.O.19)
REVISED AUG 12, 1986 (CULVERT CAPACITY)
REVISED AUG 29, 1986 (LEGAL DESCRIPTION)

HALL ENGINEERING COMPANY INC.
117 EUBANK N.E. SUITE 101
ALBUQUERQUE, NEW MEXICO 87123
PHONE (505) 292-1115 & 292-1116

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.

R# 34 DATE 3-15-02 OP

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 and was created in the normal course of business.

The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS41-1977)

DIRECTOR

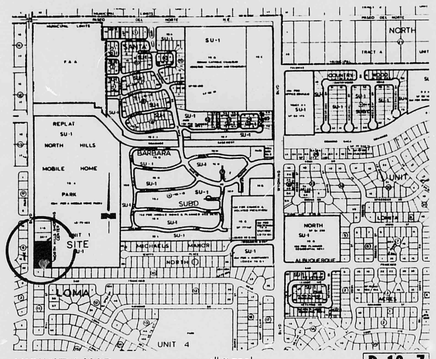
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/02/02

D24 C20 B16 A12

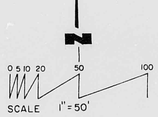
CITY OF ALBUQUERQUE C D

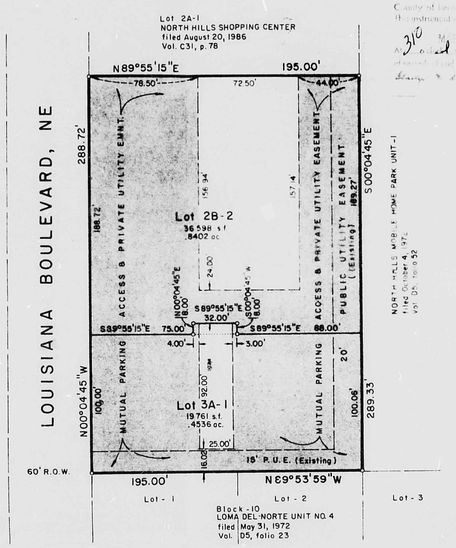
C B A



VICINITY MAP SCALE 1" = 750'

D-19-Z





3020866

PIR-D19

PLAT OF

LOTS 2B-2 AND 3A-1

NORTH HILLS SHOPPING CENTER

BEING A REPLAT OF LOTS 2B-1 AND 3-A
NORTH HILLS SHOPPING CENTER
(filed August 20, 1986, Vol. C31, p.78)

WITHIN THE ELENA GALLEGOS GRANT
PROJECTED SECTION 19, T.11N., R.4E., N.M.P.M

ALBUQUERQUE, NEW MEXICO

February 1988

SP-88-79

Subdivision No.

Jack Cloud — 3/10/88
Planning Director — Date

Frank J. Arguello — 2/26/88
City Engineer — Date

Frank J. Arguello — 2/26/88
A. M. A. F. C. O. — Date

John Stevens — 2/24/88
Property Management — Date

David Clark — 022488
City Surveyor — Date

N/A
Water Resources — Date

N/A
Parks and Recreation — Date

Paul W. Turner — 3/10/88
Traffic Engineer — Date

SUBDIVISION DATA

1. DRB No. 88-131
2. Zone Atlas Index No. D-19
3. Current Zoning SU-1
4. Gross Acreage 1.2958 Acres
5. Total number of lots created 0
6. Mileage of full-width streets created 0

NOTES

1. No field work was performed; no corners were set.
2. This plat was prepared for the purpose of adjusting an interior property line.
3. Bearings and perimeter distances are based on the Plat of Lots 1A, 2A-1, 2B-1 and 3-A, NORTH HILLS SHOPPING CENTER, Albuquerque, New Mexico, filed August 20, 1986 in Volume C31, page 78.
4. Mutual Parking, Access and Private Utility Easement appearing hereon is granted by the Owner of Lots 2B-2 and 3A-1 for the purpose of free access through, across and between said Lots and for the extensions of private utility services to any leased spaces thereon. This Easement shall be perpetual and run with the land; maintenance shall be the responsibility of the of the owner of said lots and the mutual responsibility of his assigns.

DESCRIPTION

Lots numbered Two B-One (2B-1) and Three-A (3-A) of NORTH HILLS SHOPPING CENTER, Albuquerque, New Mexico as the same are shown and designated on the Plat of Lots 1A, 2A-1, 2B-1 and 3-A, filed in the Office of the County Clerk of Bernalillo County, New Mexico on August 20, 1986 in Volume C31, page 78.

OWNER'S CERTIFICATION

Replatting of the above described Lots, now being designated by this plat as Lots 2B-2 and 3A-1, NORTH HILLS SHOPPING CENTER, Albuquerque, New Mexico is with the free consent and in accordance with the desires of the undersigned owner.

Mike Argeanas
Mike Argeanas

ACKNOWLEDGMENT

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) ss

On this 10th day of FEB, 1988, the foregoing instrument was acknowledged before me.

My Commission expires Aug 14th, 1989

Michael L. Miller
Notary Public

SURVEYOR'S CERTIFICATE

I, Richard V. Hall, New Mexico Registered Land Surveyor No.7264, do hereby certify that this Plat was prepared by me or under my supervision, meets the minimum requirements of the Albuquerque Subdivision Ordinance, shows all easements of record, and is true and correct to the best of my knowledge and belief.

Richard V. Hall
Richard V. Hall N.M.L.S. No.7264

ACKNOWLEDGEMENT

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) ss

On this [illegible] day of [illegible], 19[illegible], the foregoing instrument was acknowledged before me.

My Commission expires [illegible]

[illegible]
Notary Public

RECEIVED
MAR 14 1988
HYDROLOGY SECTION

OFFICIAL SEAL
[illegible] THOMPSON
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires [illegible]

HALL ENGINEERING COMPANY INC.
ENGINEERING • SURVEYING • PLANNING • CONSTRUCTION
6840 2ND ST., N.W., SUITE 306 • ALBUQUERQUE, NEW MEXICO 87107
PHONE: (505) 345-1064

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R# 24 DATE 3-15-02 OP ESP

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** and was created in the normal course of business.

The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS18/-1977)

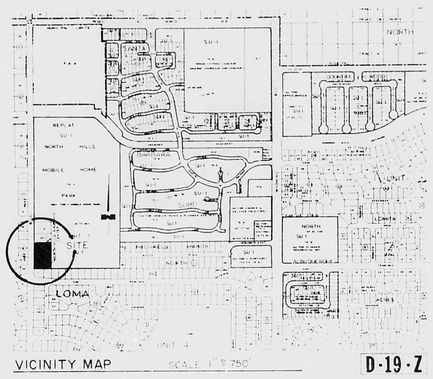
Angel T. Adler 4/15/02
DIRECTOR

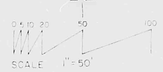
Roberta Duran
NOTARY PUBLIC

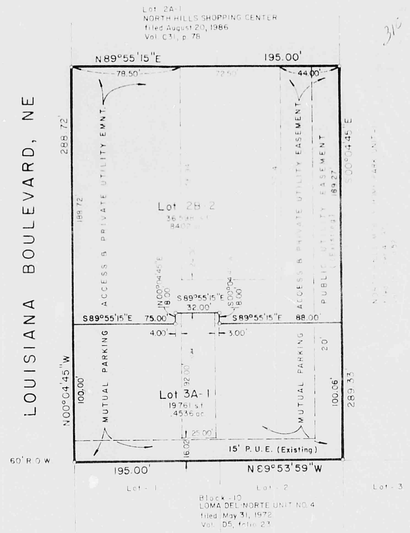
OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 07/03/02

C20 B16 A12
CITY OF ALBUQUERQUE C

C B A







PLAT OF

LOTS 2B-2 AND 3A-1

NORTH HILLS SHOPPING CENTER

BEING A REPLAT OF LOTS 2B-1 AND 3-A
NORTH HILLS SHOPPING CENTER
(filed August 20, 1986, Vol. C31, p. 78)

WITHIN THE ELENA GALLEGOS GRANT
PROJECTED SECTION 19 T.11N., R.4E., N.M.P.M.

ALBUQUERQUE, NEW MEXICO

February, 1988

SUBDIVISION DATA

1. DRB No. 88-131
2. Zone Atlas Index No. D-19
3. Current Zoning SU-1
4. Gross Acreage 1.2938 Acres
5. Total number of lots created 0
6. Mileage of full-width streets dedicated 0

NOTES

1. No field work was performed; no corners were set.
2. This plat was prepared for the purpose of adjusting an interior property line.
3. Bearings and perimeter distances are based on the Plat of Lots 1A, 1A-1, 1B-1 and 1-A, NORTH HILLS SHOPPING CENTER, Albuquerque, New Mexico, filed August 20, 1986 in Volume C31, page 78.
4. Mutual Parking, Access and Private Utility Easement appurtenant hereon is granted by the Owner of Lots 2B-2 and 3A-1 for the purpose of free access through, across and between said Lots and for the extensions of private utility services to any leased spaces thereon. This Easement shall be perpetual and run with the land; maintenance shall be the responsibility of the Owner of said Lots and the mutual responsibility of his assigns.

DESCRIPTION

Lots numbered Two B-One (2B-1) and Three-A (3-A) of NORTH HILLS SHOPPING CENTER, Albuquerque, New Mexico as the same are shown and designated on the Plat of Lots 1A, 1A-1, 2B-1 and 3-A, filed in the Office of the County Clerk of Bernalillo County, New Mexico on August 20, 1986 in Volume C31, page 78.

OWNER'S CERTIFICATION

Replatting of the above described Lots, now being designated by this plat as Lots 2B-2 and 3A-1, NORTH HILLS SHOPPING CENTER, Albuquerque, New Mexico is with the free consent and in accordance with the desires of the undersigned owner.

Max Argonaut

ACKNOWLEDGMENT

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) ss

On this 7 day of 1988, the foregoing instrument was acknowledged before me.

My Commission expires

Notary Public

SP-88-79

Subdivision Review Committee	
Planning Director	Jack Cloud — Date 3/10/88
City Engineer	Frank J. Cequin — Date 2/26/88
Traffic Engineer	Frank J. Cequin — Date 2/26/88
Acting City Engineer	Date 2/24/88
Parks and Recreation	Date 022488
Water Resources	N/A — Date
Parks and Recreation	N/A — Date
Traffic Engineer	Date 3/16/88

SURVEYOR'S CERTIFICATE

I, Richard V. Hall, New Mexico Registered Land Surveyor No. 7264, do hereby certify that this Plat was prepared by me or under my supervision, meets the minimum requirements of the Albuquerque Subdivision ordinance, shows all easements of record, and is true and correct to the best of my knowledge and belief.

Richard V. Hall

Richard V. Hall N.M.L.S. No. 7264

ACKNOWLEDGMENT

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) ss

On this day of , 19 , the foregoing instrument was acknowledged before me.

My Commission expires

Notary Public

MAR 1 - 1988
HYDROLOGY SECTION

HALL ENGINEERING COMPANY INC.
ENGINEERING • SURVEYING • PLANNING • CONSTRUCTION
6840 2ND ST., N.W., SUITE 305 • ALBUQUERQUE, NEW MEXICO 87107
PHONE (505) 345 1064

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.

R# 34 DATE 3-15-02 OP ESP

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** and was created in the normal course of business.

The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

3/15/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/07/02

C20 B16 A12

CITY OF ALBUQUERQUE

C