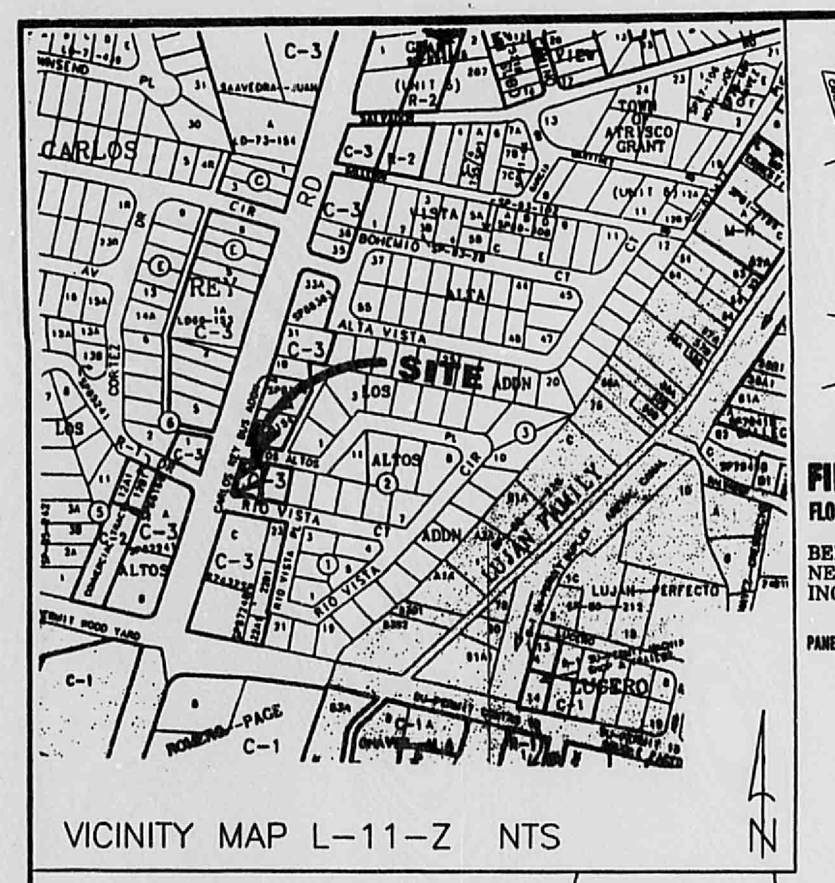
PUBLIC WORKS/HYDROLOGY 1 OF 2

L11/D21

D-J, SPB0154

Topo 9/18/99

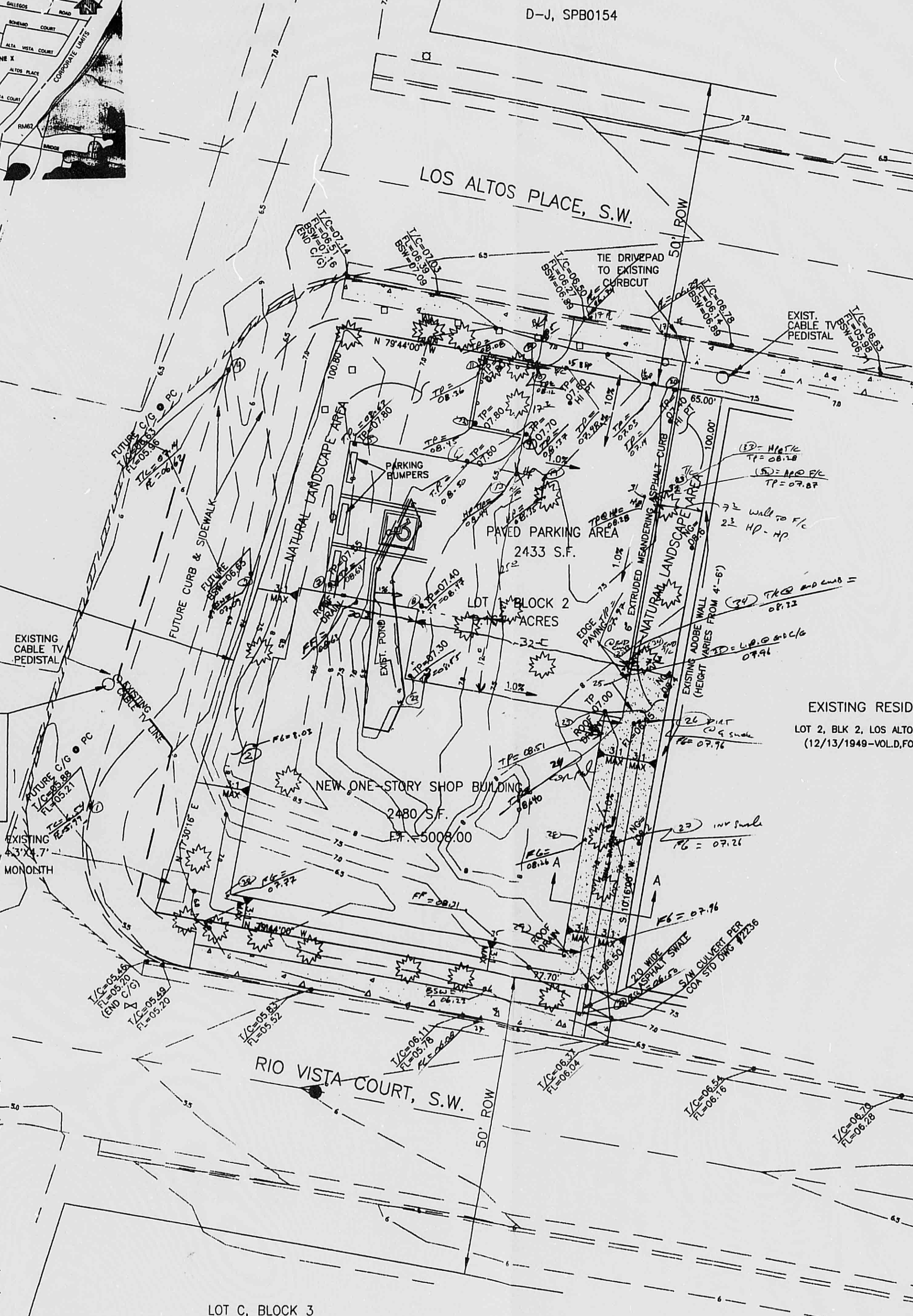
GRADING AND DRAINAGE PLAN
LOT 1 BLOCK 2, LOS ALTOS ADDITION
ALBUQUERQUE, NM
MAY, 1998



VICINITY MAP L-11-Z NTS

ZONE X
ZONE AE

FIRM
FLOOD INSURANCE RATE MAP
BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS
PANEL 329 OF 825



EXISTING RESIDENCE
LOT 2, BLK 2, LOS ALTOS ADDITION
(12/13/1949-VOL.D,FOLIO 75)

SCALE: 1"=10'
0 10 20 30

TBM=FLAGGED NAIL ON POWER POLE
ELEV.=5006.14

COA BENCHMARK:
NM 45-4A, SW COR. COORS @ BRIDGE
ELEV.=5003.02

LEGAL DESCRIPTION: LOT 1, BLOCK 2, LOS ALTOS ADDITION
ALBUQUERQUE, NEW MEXICO

FLOOD PLAIN: Panel #329 of 825: ZONE"X" (Outside 500 year floodplain)

PROJECT DESCRIPTION:

Historically, the site discharges minor flows to Coors Road, Los Altos Place, and Rio Vista Court, with over half of the site's runoff ponded onsite.

The proposed grading plan freely discharges drainage to Coors Road, Los Altos Place, and Rio Vista court. Proposed discharge to Los Altos Place does not exceed historical discharge. Drainage from the site is to be routed to the S.E. area of the lot and discharged into Rio Vista Court, which flows to Coors Rd. Off-site flows will be conducted south towards Bridge Blvd in existing dirt and asphalt swales.

Storm Drain Improvements to Coors Road are already underway. This site's Discharge to Rio Vista Court and Coors Road does not exceed that allowed by storm drain design criteria set out in the final drainage report for "Old Coors Drive S.W."; COA Project No. 475090, written by Gannett Fleming West, Inc., May 1996. Storm drain system design was based on 90% land treatment "D", 10% treatment "C" for this site, which results in a 100 yr peak of 0.692 cfs and a volume of 1114 cf. The proposed site plan with 69% treatment "D" and 31% treatment "C" results in 0.640 cfs and 991 cf.

The storm drain portion of the project, which will accept flows from this site, is scheduled to be completed by Dec., 1998. In the interm, the addition of 0.64 cfs to the 44.1 cfs currently drained thru subbasin S-3 (GFW report) will have a negligible impact on existing systems.

```
ALBUQUERQUE, NM, DPM (1/93) CRITERIA - SIMPLE PROCEDURE FOR <= 40 ACRES
PX100-6 = PRECIPITATION EXCESS FROM 100-YEAR 6-HOUR STORM
VOL10D  = VOLUME OF RUNOFF FROM 100-YEAR 10-DAY STORM
TRTMT CLASS A=UNDISTURBED, B=LAWNS, C=UNPAVED ROADS, D=ROOFS,PAVEMENT: SEE DPM P 22.5-5

****** PROJECT INFO ******
LOT 1, BLOCK 2, LOS ALTOS ADDITION,  MAP L-11
ENTIRE SITE=7134 SF

RAIN ZONE          1            SEE DPM P 22.2-2
100-YEAR PRECIPTATION (P) DEPTHS, INCHES
    1 HR        6 HR     24 HR     4 DAY     10 DAY
    1.87        2.20     2.66      3.12      3.67
```

05/17/98 06:13 PM EXISTING OFF-FLOW FROM SITE (MOST OF SITE IS PONDED)

TRTMT CLASS	AREA SQUARE FEET	AREA ACRES	PX100-6 IN/AC	QP100-6 CFS/AC	QP100-6 CFS	VOL6HR AC-FT	VOL1D AC-FT	VOL4D AC-FT	VOL10D AC-FT	TRTMT PERCENT
A	2581.00	0.0593	0.44	1.29	0.076	0.002	0.002	0.002	0.002	100.00
B	0.00	0.00	0.67	2.03	0.00	0.00	0.00	0.00	0.00	0.00
C	0.00	0.00	0.99	2.87	0.00	0.00	0.00	0.00	0.00	0.00
D	0.00	0.00	1.97	4.37	0.00	0.00	0.00	0.00	0.00	0.00
	2581.00	0.0593			0.076	0.002	0.002	0.002	0.002	100.00
					CU FT	95	95	95	95	

05/17/98 06:13 PM PROPOSED SITE DEVELOPMENT

TRTMT CLASS	AREA SQUARE FEET	AREA ACRES	PX100-6 IN/AC	QP100-6 CFS/AC	QP100-6 CFS	VOL6HR AC-FT	VOL1D AC-FT	VOL4D AC-FT	VOL10D AC-FT	TRTMT PERCENT
A	0.00	0.00	0.44	1.29	0.00	0.00	0.00	0.00	0.00	0.00
B	0.00	0.00	0.67	2.03	0.00	0.00	0.00	0.00	0.00	0.00
C	2230.00	0.0512	0.99	2.87	0.147	0.004	0.004	0.004	0.004	31.22
D	4913.00	0.1128	1.97	4.37	0.493	0.019	0.023	0.027	0.032	68.78
	7143.00	0.1640			0.640	0.023	0.027	0.031	0.037	100.00
					CU FT	991	1179	1367	1594	

05/17/98 06:13 PM MAX ALLOWED RUNOFF FOR LOCAL STORM DRAIN DESIGN

TRTMT CLASS	AREA SQUARE FEET	AREA ACRES	PX100-6 IN/AC	QP100-6 CFS/AC	QP100-6 CFS	VOL6HR AC-FT	VOL1D AC-FT	VOL4D AC-FT	VOL10D AC-FT	TRTMT PERCENT
A	0.00	0.00	0.44	1.29	0.00	0.00	0.00	0.00	0.00	0.00
B	0.00	0.00	0.67	2.03	0.00	0.00	0.00	0.00	0.00	0.00
C	714.00	0.0164	0.99	2.87	0.047	0.001	0.001	0.001	0.001	1000
D	6429.00	0.1476	1.97	4.37	0.645	0.024	0.030	0.036	0.042	9000
	7143.00	0.1640			0.692	0.026	0.031	0.037	0.044	100.00
					CU FT	1114	1361	1607	1902	

NOTICE TO CONTRACTOR

1. An excavation\construction permit will be required before beginning any work within City of Albuquerque 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 to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with the City of Albuquerque Standard Specifications for Public Works Construction, most recent edition.

3. Two working days prior to any excavation, contractor must contact Line Locating Service (260-1990) 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 95% max. theoretical density.

6. Maintenance of these facilities shall be the responsibility of the Owner of the property served.

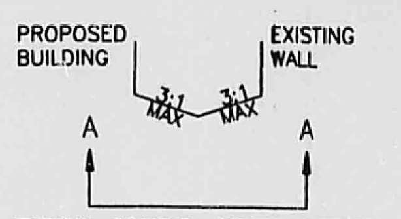
GENERAL NOTES

1. Verify all flowline elevations and slopes prior to construction. Consult with the Engineer regarding discrepancies immediately, before final layout or start of construction.

2. Curbs & sidewalks in the ROW are per City Standards.

Grading Certification:
I, Robert B. Ryals, being a registered professional Engineer in the State of New Mexico, hereby certify that the grading improvements are as shown on this as built plan and are in substantial compliance with this plan.
Robert B. Ryals
9/20/99

8436



TYPICAL CHANNEL CROSS-SECTION

LEGEND

BOUNDARY	───
EXISTING LOT ANNOTATION	LOT 8
EXISTING CONTOURS	──80──
EXISTING CONTOURS	──8.0──
R.O.W. LINE	═══
EX. CURB AND GUTTER	═══
EX. CONCRETE SIDEWALK	▨
GRAVEL GROUND-COVER	▨
EDGE OF PAVEMENT	//////////
EXISTING WATER VALVE	⋈
EXISTING MANHOLE	●
EXISTING TREE OR BUSH	✹
EXISTING 4X4 POST	□
EXISTING 8" DIA POST	○
PROPOSED HANDICAPPED SIGN	ϕ
PROPOSED BOLLARD	∘

TG TOP GROUND
BSW BACK SIDEWALK
TC TOP CURB
FL FLOW LINE
TP TOP PAVE
NG NATURAL GROUND

RECEIVED
OCT 6 1999
HYDROLOGY SECTION

Robert Ryals
10/13/98

SO-19
PRIVATE IMPROVEMENT IN PUBLIC ROW

APPROVALS	NAME	DATE
HYDROLOGY		
INSPECTOR		
ACE/FIELD		

RYALS engineering & construction services
5301 Central Ave. Albuquerque, NM 87108
(505) 256-4701 243-8706 mobile telephone

SHEET NO. 1 OF 1

DWG:A:\TOPO1 DATE12/01/98 TIME:15:14 RYALS Engineering-HB

R# 27 DATE 3-29-02 OP EgP

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.

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1/15/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 07/08/02

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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PLANS/PLATS ON FILE
FILE DESC: L11/D21

PLANS/PLATS 4

E 30 D 24 C 20 B 16 A 12

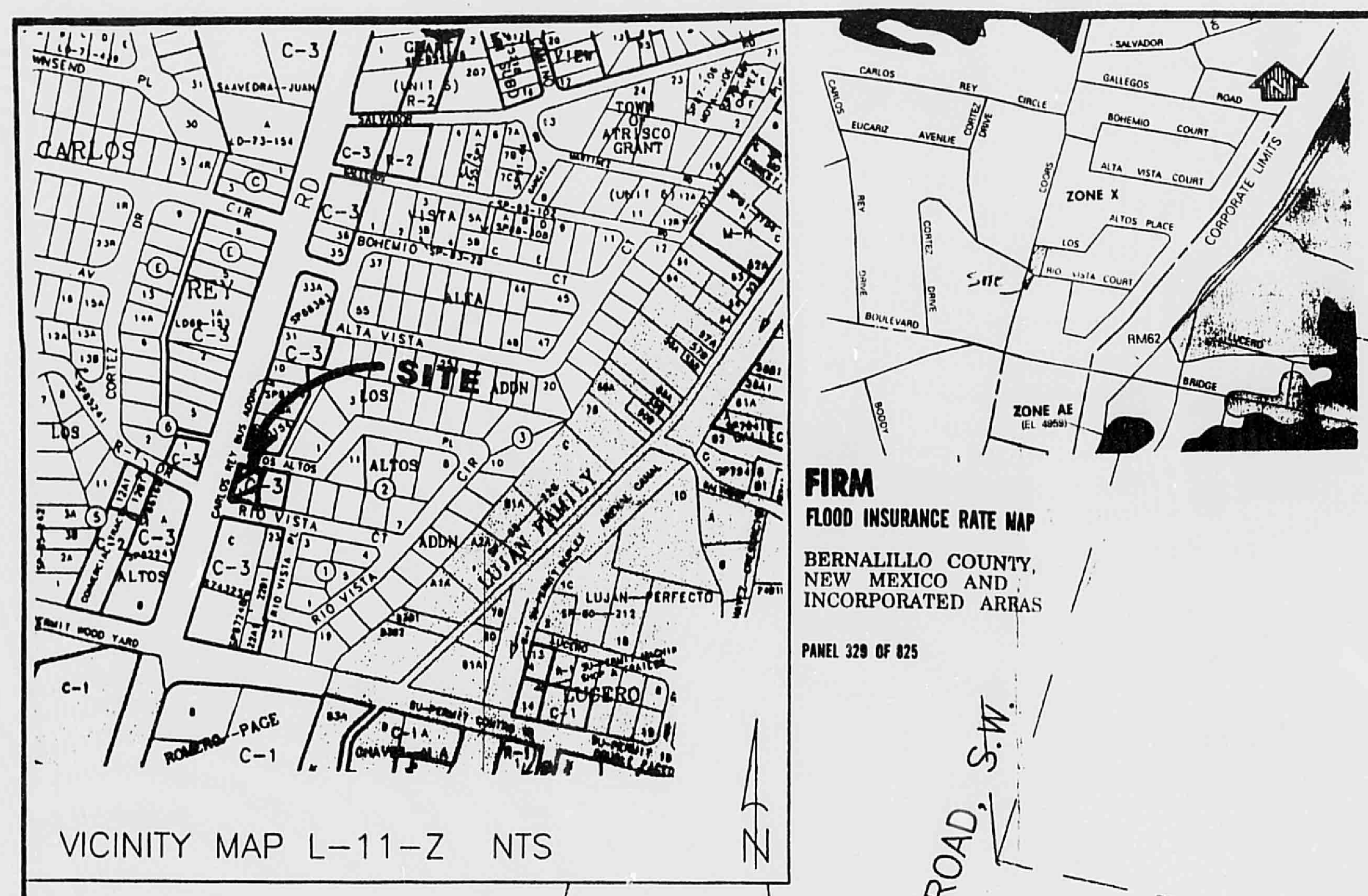
CITY OF ALBUQUERQUE

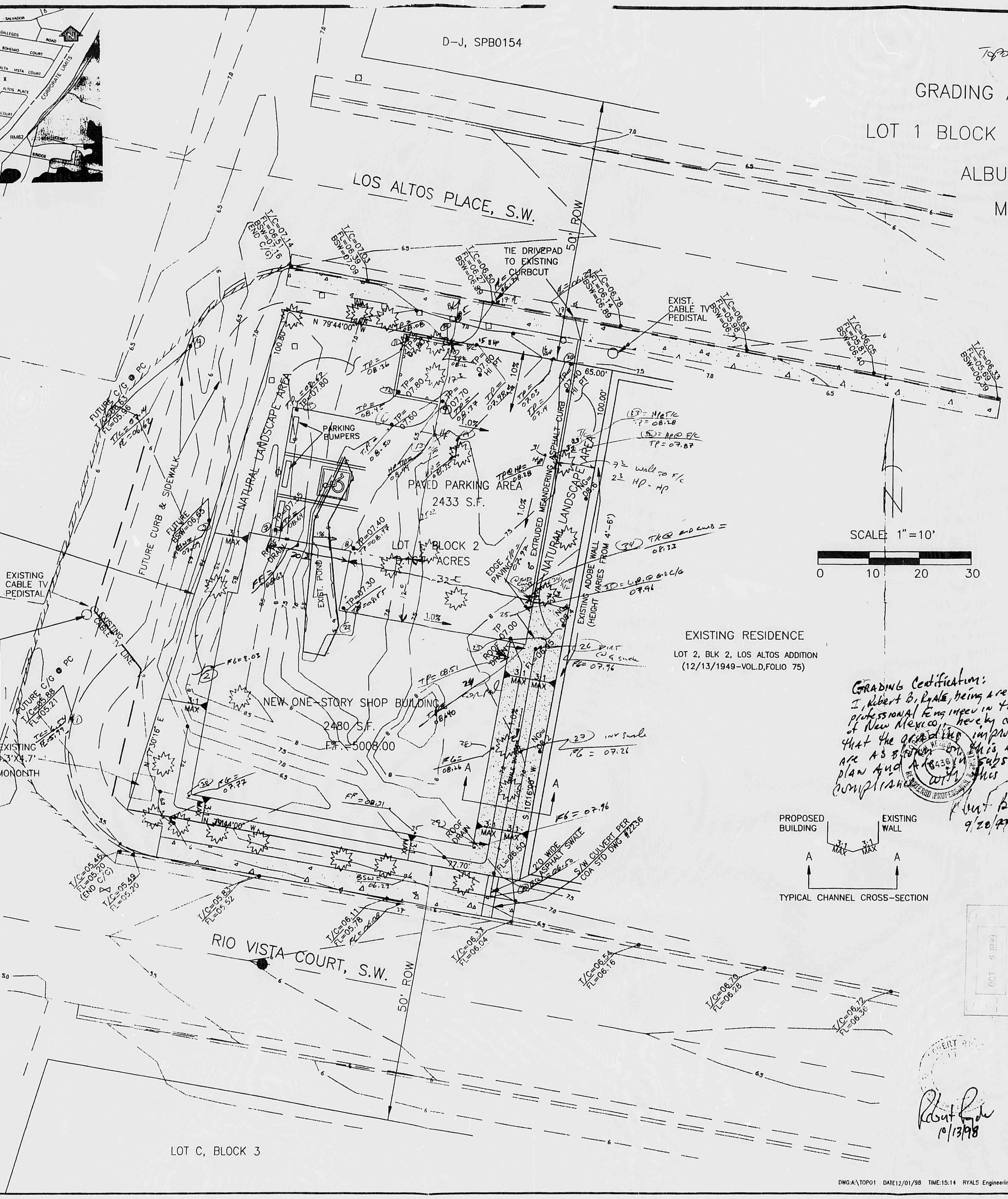
C D F

D-J, SPB0154

Topo 9/18/99

GRADING AND DRAINAGE PLAN
LOT 1 BLOCK 2, LOS ALTOS ADDITION
ALBUQUERQUE, NM
MAY, 1998


CARLOS
REY
SITE
ALTOS
C-1
C-3
VICINITY MAP L-11-Z NTS
N
ZONE X
ZONE AE
SITE
FIRM
FLOOD INSURANCE RATE MAP
BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS
PANEL 329 OF 825


LOS ALTOS PLACE, S.W.
COORS ROAD, S.W.
EDGE ROAD
RIO VISTA COURT, S.W.
50' ROW
95' ROW (VARIES)
TIE DRIVEPAD TO EXISTING CURBCUT
EXIST. CABLE TV PEDISTAL
EXISTING CABLE TV PEDISTAL
EXISTING 4.3'X4.7' MONONTH
FUTURE CURB & SIDEWALK
NATURAL LANDSCAPE AREA
PARKING BUMPERS
PAVED PARKING AREA 2433 S.F.
LOT 1 BLOCK 2 .16 ACRES
NEW ONE-STORY SHOP BUILDING 2480 S.F. F.F.=5008.00
EXTRUDED MEANDERING ASPHALT CURB
EXISTING ADOBE WALL (HEIGHT VARIES FROM 4'-6')
S.W. CULVERT PER COA STD DWG #2236
ROOF DRAIN
MAX
N 79°44'00" E
65.00'
100.00'
EXISTING RESIDENCE
LOT 2, BLK 2, LOS ALTOS ADDITION
(12/13/1949-VOL.D,FOLIO 75)
LOT C, BLOCK 3
SCALE: 1"=10'
0 10 20 30
N
PROPOSED BUILDING
EXISTING WALL
3:1 MAX
3:1 MAX
A
A
TYPICAL CHANNEL CROSS-SECTION
TBM=FLAGGED NAIL ON POWER POLE ELEV.=5006.14
COA BENCHMARK: NM 45-4A, SW COR. COORS @ BRIDGE ELEV.=5003.02
(34) TK@ and curb = 08.33
= L.P.@ G.D.C/G 07.96
DWG:A:\TOPO1 DATE:12/01/98 TIME:15:14 RYALS Engineering-HB

LEGAL DESCRIPTION: LOT 1, BLOCK 2, LOS ALTOS ADDITION
ALBUQUERQUE, NEW MEXICO

FLOOD PLAIN: Panel #329 of 825: ZONE"X" (Outside 500 year floodplain)

PROJECT DESCRIPTION:

Historically, the site discharges minor flows to Coors Road, Los Altos Place, and Rio Vista Court, with over half of the site's runoff ponded onsite.

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****** PROJECT INFO ******
LOT 1, BLOCK 2, LOS ALTOS ADDITION, MAP L-11
ENTIRE SITE=7134 SF

RAIN ZONE 1 SEE DPM P 22.2-2
100-YEAR PRECIPTATION (P) DEPTHS, INCHES

1 HR	6 HR	24 HR	4 DAY	10 DAY
1.87	2.20	2.66	3.12	3.67

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05/17/98 06:13 PM PROPOSED SITE DEVELOPMENT

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05/17/98 06:13 PM MAX ALLOWED RUNOFF FOR LOCAL STORM DRAIN DESIGN

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GRADING Certification:
I, Robert B. Ryals, being a registered professional Engineer in the State of New Mexico, hereby certify that the grading improvements are as shown on this as built plan and are in substantial compliance with this plan.
Robert B. Ryals
9/28/99

8436

LEGEND

BOUNDARY	———
EXISTING LOT ANNOTATION	LOT 8
EXISTING CONTOURS	—80—
EXISTING CONTOURS	— 8.0 —
R.O.W. LINE	———
EX. CURB AND GUTTER	═══
EX. CONCRETE SIDEWALK	▨
GRAVEL GROUND-COVER	▨
EDGE OF PAVEMENT	//////////
EXISTING WATER VALVE	⋈
EXISTING MANHOLE	●
EXISTING TREE OR BUSH	✹
EXISTING 4X4 POST	[]
EXISTING 8" DIA POST	○
PROPOSED HANDICAPPED SIGN	φ
PROPOSED BOLLARD	∘

TG TOP GROUND
BSW BACK SIDEWALK
TC TOP CURB
FL FLOW LINE
TP TOP PAVE
NG NATURAL GROUND

HYDROLOGY SECTION
OCT 6 1999

Robert Ryals
10/13/98

SO-19
PRIVATE IMPROVEMENT IN PUBLIC ROW

APPROVALS	NAME	DATE
HYDROLOGY		
INSPECTOR		
ACE/FIELD		

R Y A L S engineering & construction services
5301 Central Ave. Albuquerque, NM 87108
(505) 256-4701 243-8706 mobile telephone

SHEET NO. 1 OF 1

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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R# 27 DATE 3-29-02 OP EGP

CITY OF ALBUQUERQUE

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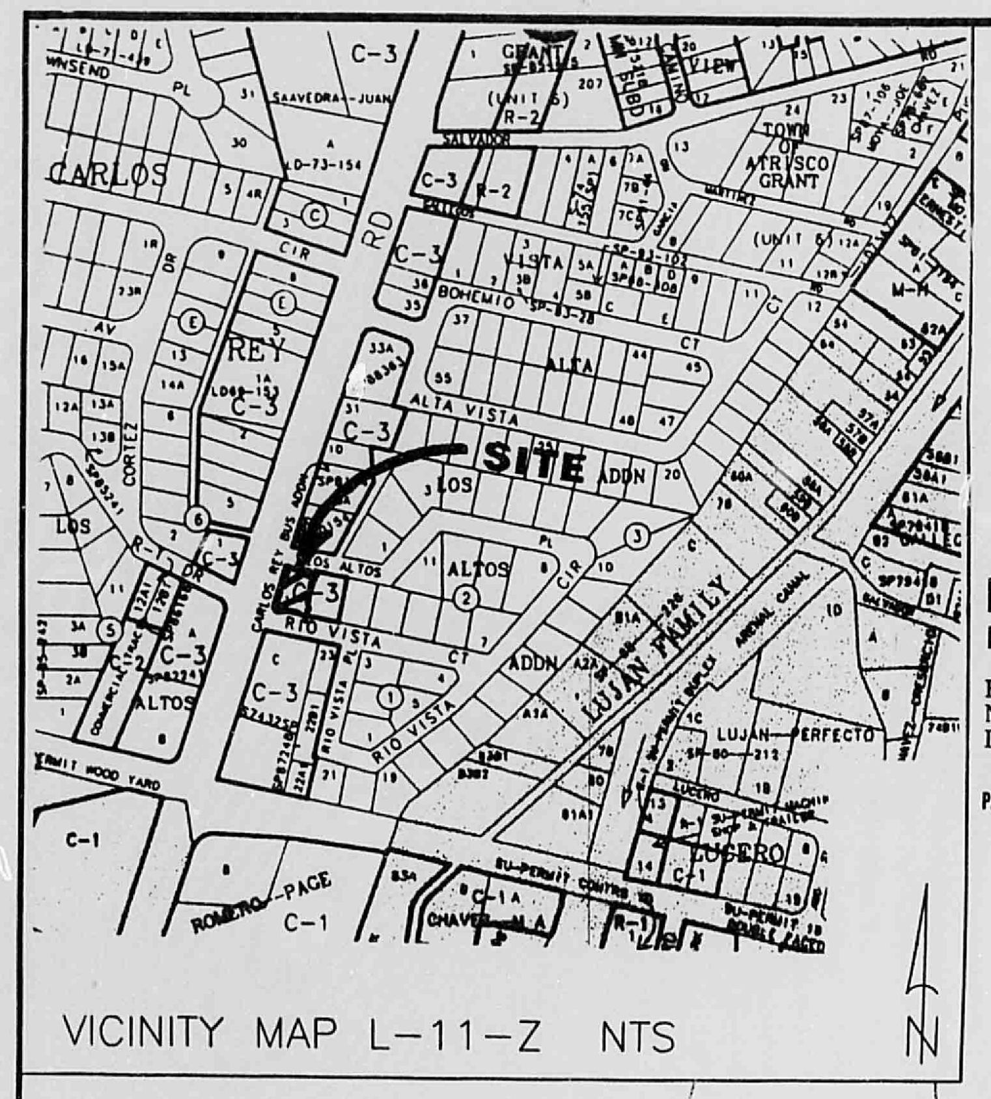
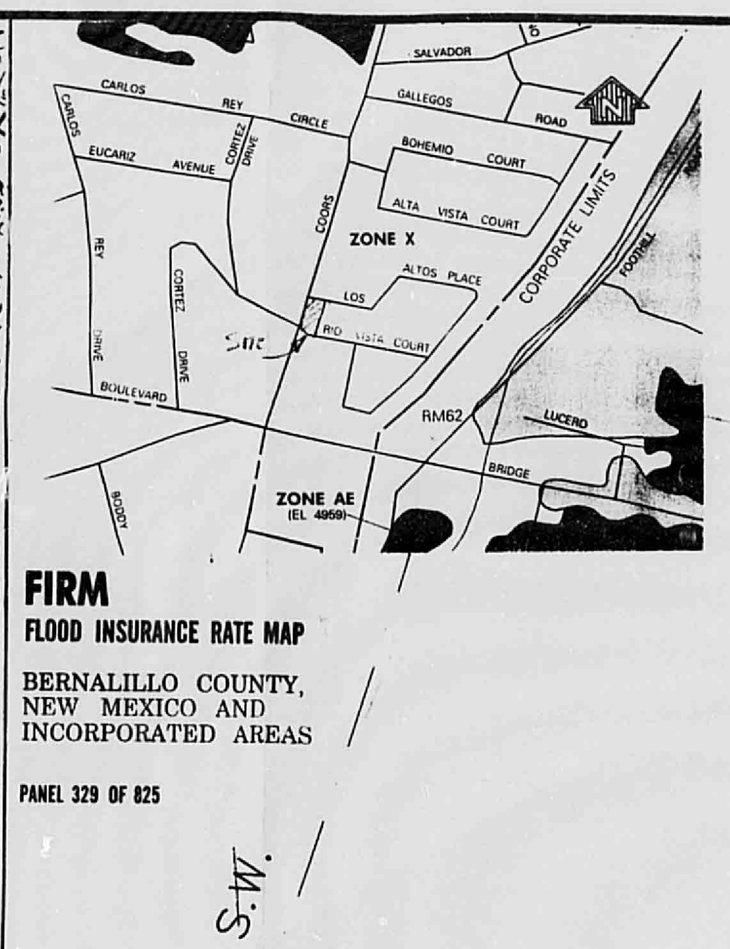
1/15/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/08/02


CARLOS REY
SITE
ALTOS
RIO VISTA
LUJAN FAMILY
EDGE
VICINITY MAP L-11-Z NTS
N

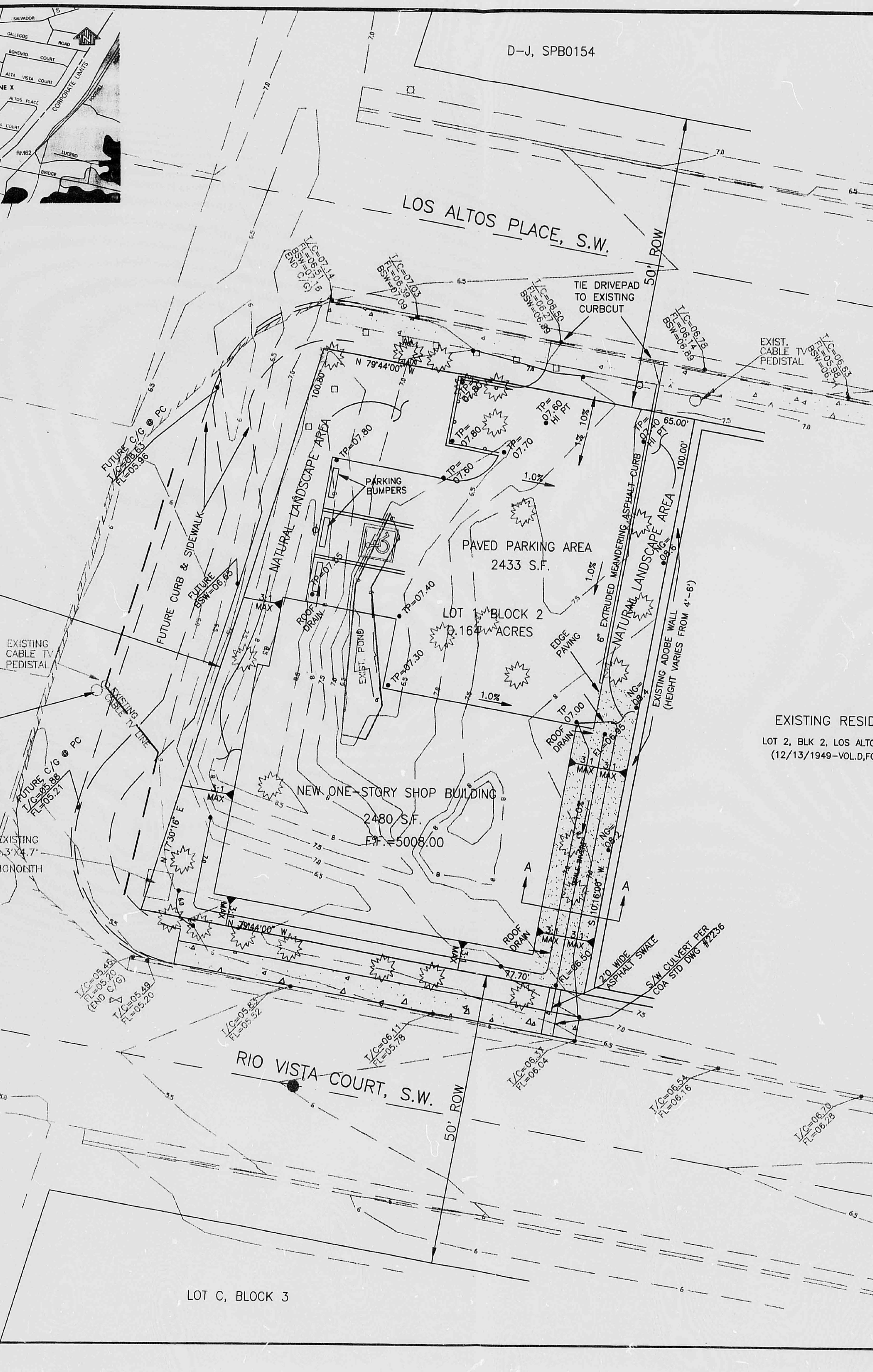

ZONE X
ZONE AE
N

FIRM
FLOOD INSURANCE RATE MAP
BERNALILLO COUNTY,
NEW MEXICO AND
INCORPORATED AREAS

PANEL 329 OF 825

GRADING AND DRAINAGE PLAN

LOT 1 BLOCK 2, LOS ALTOS ADDITION
ALBUQUERQUE, NM
MAY, 1998


D-J, SPB0154
LOS ALTOS PLACE, S.W.
COORS ROAD, S.W.
EDGE ROAD
95' ROW (VARIES)
50' ROW
TIE DRIVEPAD TO EXISTING CURBCUT
EXIST. CABLE TV PEDISTAL
EXISTING CABLE TV PEDISTAL
EXISTING CABLE TV LINE
FUTURE C/G @ PC
T/C=06.63
FL=05.96
FUTURE CURB & SIDEWALK
FUTURE BSW=06.65
NATURAL LANDSCAPE AREA
PARKING BUMPERS
PAVED PARKING AREA
2433 S.F.
LOT 1, BLOCK 2
0.164 ACRES
EXIST. POND
ROOF DRAIN
EDGE PAVING
6" EXTRUDED MEANDERING ASPHALT CURB
EXISTING ADOBE WALL (HEIGHT VARIES FROM 4'-6')
NEW ONE-STORY SHOP BUILDING
2480 S.F.
F.F.=5008.00
N 79°44'00" W
N 7°30'16" E
S 10°16'00" W
100.80'
65.00'
100.00'
77.70'
3:1 MAX
1.0%
TP=07.80
TP=07.60
TP=07.70
TP=07.60 HI PT
TP=07.40 HI PT
TP=07.55
TP=07.40
TP=07.30
TP 07.00
FL=06.95
FL=06.50
NG=08.6
NG=08.4
NG=08.2
T/C=07.14 FL=06.51 BSW=07.16 END C/G
T/C=07.03 FL=06.39 BSW=07.09
T/C=06.50 FL=06.27 BSW=06.39
T/C=06.78 FL=06.14 BSW=06.89
T/C=06.33 FL=05.69 BSW=06.39
T/C=05.46 FL=05.20 (END C/G)
T/C=05.49 FL=05.20
T/C=05.83 FL=05.52
T/C=06.11 FL=05.78
T/C=06.37 FL=06.04
T/C=06.54 FL=06.16
T/C=06.75 FL=06.28
T/C=06.77 FL=06.35
FUTURE C/G @ PC T/C=05.88 FL=05.21
2.0' WIDE ASPHALT SWALE
S/W CULVERT PER COA STD DWG #2236
RIO VISTA COURT, S.W.
EXISTING 4.3'X4.7' MONONTH
EXISTING RESIDENCE
LOT 2, BLK 2, LOS ALTOS ADDITION
(12/13/1949-VOL.D,FOLIO 75)
LOT C, BLOCK 3
A
N
SCALE: 1"=10'
0 10 20 30

TBM=FLAGGED NAIL
ON POWER POLE
ELEV.=5006.14

COA BENCHMARK:
NM 45-4A, SW COR.
COORS @ BRIDGE
ELEV.=5003.02

LEGAL DESCRIPTION: LOT 1, BLOCK 2, LOS ALTOS ADDITION
ALBUQUERQUE, NEW MEXICO

FLOOD PLAIN: Panel #329 of 825: ZONE"X" (Outside 500 year floodplain)

PROJECT DESCRIPTION:

Historically, the site discharges minor flows to Coors Road, Los Altos Place, and Rio Vista Court, with over half of the site's runoff ponded onsite.

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The storm drain portion of the project, which will accept flows from this site, is scheduled to be completed by Dec., 1998. In the interm, the addition of 0.64 cfs to the 44.1 cfs currently drained thru subbasin S-3 (GFW report) will have a negligible impact on existing systems.

ALBUQUERQUE, NM, DPM (1/93) CRITERIA -- SIMPLE PROCEDURE FOR <= 40 ACRES
PX100-6 = PRECIPITATION EXCESS FROM 100-YEAR 6-HOUR STORM
VOL10D = VOLUME OF RUNOFF FROM 100-YEAR 10-DAY STORM
TRTMT CLASS A=UNDISTURBED, B=LAWNS, C=UNPAVED ROADS, D=ROOFS,PAVEMENT: SEE DPM P 22.5-5

****** PROJECT INFO ******
LOT 1, BLOCK 2, LOS ALTOS ADDITION, MAP L-11
ENTIRE SITE=7134 SF

RAIN ZONE 1 SEE DPM P 22.2-2
100-YEAR PRECIPTATION (P) DEPTHS, INCHES

1 HR	6 HR	24 HR	4 DAY	10 DAY
1.87	2.20	2.66	3.12	3.67

05/17/98 06:13 PM EXISTING OFF-FLOW FROM SITE (MOST OF SITE IS PONDED)

TRTMT CLASS	AREA SQUARE FEET	AREA ACRES	PX100-6 IN/AC	QP100-6 CFS/AC	QP100-6 CFS	VOL6HR AC-FT	VOL1D AC-FT	VOL4D AC-FT	VOL10D AC-FT	TRTMT PERCENT
A	2581.00	0.0593	0.44	1.29	0.076	0.002	0.002	0.002	0.002	100.00
B	0.00	0.00	0.67	2.03	0.00	0.00	0.00	0.00	0.00	0.00
C	0.00	0.00	0.99	2.87	0.00	0.00	0.00	0.00	0.00	0.00
D	0.00	0.00	1.97	4.37	0.00	0.00	0.00	0.00	0.00	0.00
	2581.00	0.0593			0.076	0.002	0.002	0.002	0.002	100.00
					CU FT	95	95	95	95	

05/17/98 06:13 PM PROPOSED SITE DEVELOPMENT

TRTMT CLASS	AREA SQUARE FEET	AREA ACRES	PX100-6 IN/AC	QP100-6 CFS/AC	QP100-6 CFS	VOL6HR AC-FT	VOL1D AC-FT	VOL4D AC-FT	VOL10D AC-FT	TRTMT PERCENT
A	0.00	0.00	0.44	1.29	0.00	0.00	0.00	0.00	0.00	0.00
B	0.00	0.00	0.67	2.03	0.00	0.00	0.00	0.00	0.00	0.00
C	2230.00	0.0512	0.99	2.87	0.147	0.004	0.004	0.004	0.004	31.22
D	4913.00	0.1128	1.97	4.37	0.493	0.019	0.023	0.027	0.032	68.78
	7143.00	0.1640			0.640	0.023	0.027	0.031	0.037	100.00
					CU FT	991	1179	1367	1594	

05/17/98 06:13 PM MAX ALLOWED RUNOFF FOR LOCAL STORM DRAIN DESIGN

TRTMT CLASS	AREA SQUARE FEET	AREA ACRES	PX100-6 IN/AC	QP100-6 CFS/AC	QP100-6 CFS	VOL6HR AC-FT	VOL1D AC-FT	VOL4D AC-FT	VOL10D AC-FT	TRTMT PERCENT
A	0.00	0.00	0.44	1.29	0.00	0.00	0.00	0.00	0.00	0.00
B	0.00	0.00	0.67	2.03	0.00	0.00	0.00	0.00	0.00	0.00
C	714.00	0.0164	0.99	2.87	0.047	0.001	0.001	0.001	0.001	1000
D	6429.00	0.1476	1.97	4.37	0.645	0.024	0.030	0.036	0.042	9000
	7143.00	0.1640			0.692	0.026	0.031	0.037	0.044	100.00
					CU FT	1114	1361	1607	1902	

NOTICE TO CONTRACTOR

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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 95% max. theoretical density.

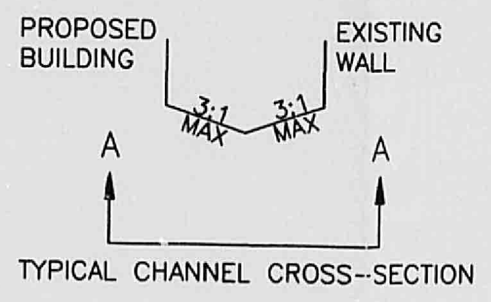
6. Maintenance of these facilities shall be the responsibility of the Owner of the property served.

RECEIVED
DEC 04 1998
HYDROLOGY SECTION

GENERAL NOTES

1. Verify all flowline elevations and slopes prior to construction. Consult with the Engineer regarding discrepancies immediately, before final layout or start of construction.

2. Curbs & sidewalks in the ROW are per City Standards.


PROPOSED BUILDING
EXISTING WALL
3:1 MAX
3:1 MAX
A
A

TYPICAL CHANNEL CROSS-SECTION

LEGEND

BOUNDARY	———
EXISTING LOT ANNOTATION	LOT 8
EXISTING CONTOURS	— 8.0 —
EXISTING CONTOURS	— 8.0 —
R.O.W. LINE	— — —
EX. CURB AND GUTTER	═══
EX. CONCRETE SIDEWALK	▨
GRAVEL GROUND-COVER	▨
EDGE OF PAVEMENT	/////
EXISTING WATER VALVE	⋈
EXISTING MANHOLE	●
EXISTING TREE OR BUSH	✸
EXISTING 4X4 POST	□
EXISTING 8" DIA POST	○
PROPOSED HANDICAPPED SIGN	ϕ
PROPOSED BOLLARD	∘

TG	TOP GROUND
BSW	BACK SIDEWALK
TC	TOP CURB
FL	FLOW LINE
TP	TOP PAVE
NG	NATURAL GROUND

10/13/98

SO-19
PRIVATE IMPROVEMENT IN PUBLIC ROW

APPROVALS	NAME	DATE
HYDROLOGY		
INSPECTOR		
ACE/FIELD		

R Y A L S engineering & construction services
5301 Central Ave. Albuquerque, NM 87108
(505) 256-4701 243-8706 mobile telephone

SHEET NO. 1 OF 1

DWG:A:\TOPO1 DATE12/01/98 TIME:15:14 RYALS Engineering-HB

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# 27 DATE 3-29-02 OP E.J.P.

CITY OF ALBUQUERQUE

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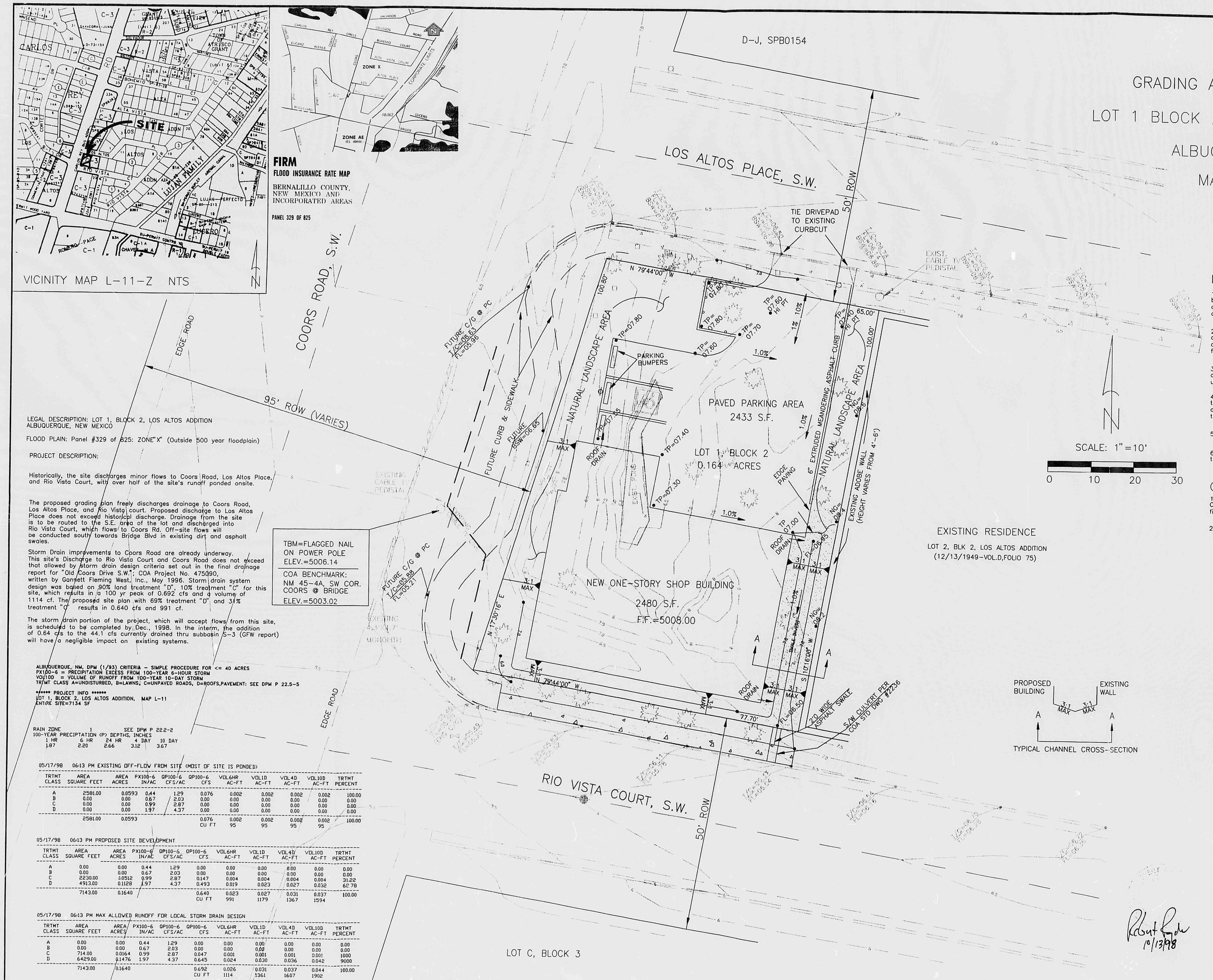
4/15/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: 07/08/02

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

GRADING AND DRAINAGE PLAN
LOT 1 BLOCK 2, LOS ALTOS ADDITION
ALBUQUERQUE, NM
MAY, 1998


CARLOS
SITE
ALTOS
RIO VISTA
LUJAN FAMILY
VICINITY MAP L-11-Z NTS
N
FIRM
FLOOD INSURANCE RATE MAP
BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS
PANEL 329 OF 825
ZONE X
ZONE AE
D-J, SPB0154
LOS ALTOS PLACE, S.W.
50' ROW
COORS ROAD, S.W.
95' ROW (VARIES)
EDGE ROAD
TIE DRIVEPAD TO EXISTING CURBCUT
EXIST. CABLE TV PEDISTAL
N 79°44'00" W
100.80'
65.00'
100.00'
FUTURE C/G @ PC
FUTURE CURB & SIDEWALK
NATURAL LANDSCAPE AREA
PARKING BUMPERS
PAVED PARKING AREA 2433 S.F.
LOT 1, BLOCK 2 0.164 ACRES
NEW ONE-STORY SHOP BUILDING 2480 S.F. F.F.=5008.00
ROOF DRAIN
EDGE PAVING
6" EXTRUDED MEANDERING ASPHALT CURB
EXISTING ADOBE WALL (HEIGHT VARIES FROM 4'-6')
1.0%
3:1 MAX
77.70'
2'0 WIDE ASPHALT SWALE
S/W CULVERT PER COA STD DWG #2236
EXISTING RESIDENCE
LOT 2, BLK 2, LOS ALTOS ADDITION
(12/13/1949-VOL.D,FOLIO 75)
RIO VISTA COURT, S.W.
LOT C, BLOCK 3
EXISTING CABLE TV PEDISTAL
EXISTING MONUMENT
N
SCALE: 1"=10'
0 10 20 30
PROPOSED BUILDING
EXISTING WALL
3:1 MAX
A
TYPICAL CHANNEL CROSS-SECTION

TBM=FLAGGED NAIL ON POWER POLE
ELEV.=5006.14

COA BENCHMARK:
NM 45-4A, SW COR. COORS @ BRIDGE
ELEV.=5003.02

LEGAL DESCRIPTION: LOT 1, BLOCK 2, LOS ALTOS ADDITION
ALBUQUERQUE, NEW MEXICO

FLOOD PLAIN: Panel #329 of 825: ZONE"X" (Outside 500 year floodplain)

PROJECT DESCRIPTION:

Historically, the site discharges minor flows to Coors Road, Los Altos Place, and Rio Vista Court, with over half of the site's runoff ponded onsite.

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****** PROJECT INFO ******
LOT 1, BLOCK 2, LOS ALTOS ADDITION, MAP L-11
ENTIRE SITE=7134 SF

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DEC 04 1998
HYDROLOGY SECTION

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2. Curbs & sidewalks in the ROW are per City Standards.

LEGEND

BOUNDARY	———
EXISTING LOT ANNOTATION	LOT 8
EXISTING CONTOURS	- - 8.0 - -
EXISTING CONTOURS	—— 8.0 ——
R.O.W. LINE	———
EX. CURB AND GUTTER	═══
EX. CONCRETE SIDEWALK	▨
GRAVEL GROUND-COVER	▨
EDGE OF PAVEMENT	////
EXISTING WATER VALVE	⋈
EXISTING MANHOLE	●
EXISTING TREE OR BUSH	✺
EXISTING 4X4 POST	□
EXISTING 8" DIA POST	○
PROPOSED HANDICAPPED SIGN	ϕ
PROPOSED BOLLARD	∘

TG	TOP GROUND
BSW	BACK SIDEWALK
TC	TOP CURB
FL	FLOW LINE
TP	TOP PAVE
NG	NATURAL GROUND

Robert Ryals
10/13/98

SO-19
PRIVATE IMPROVEMENT IN PUBLIC ROW

APPROVALS	NAME	DATE
HYDROLOGY		
INSPECTOR		
ACE/FIELD		

R Y A L S engineering & construction services
5301 Central Ave. Albuquerque, NM 87108
(505) 256-4701 243-8706 mobile telephone

SHEET NO. 1 OF 1

DWG:A:\TOP01 DATE:12/01/98 TIME:15:14 RYALS Engineering-HB

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R# 27 DATE 3-29-02 OP E.P.

CITY OF ALBUQUERQUE

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4/5/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

Roberta Duran
07/08/02

D24 C20 B16 A12 CITY OF ALBUQERQUE C D

PUBLIC WORKS/HYDROLOGY 2 OF 2

L11/D21

GRADING AND DRAINAGE PLAN
LOT 1 BLOCK 2, LOS ALTOS ADDITION
ALBUQUERQUE, NM
MAY, 1998

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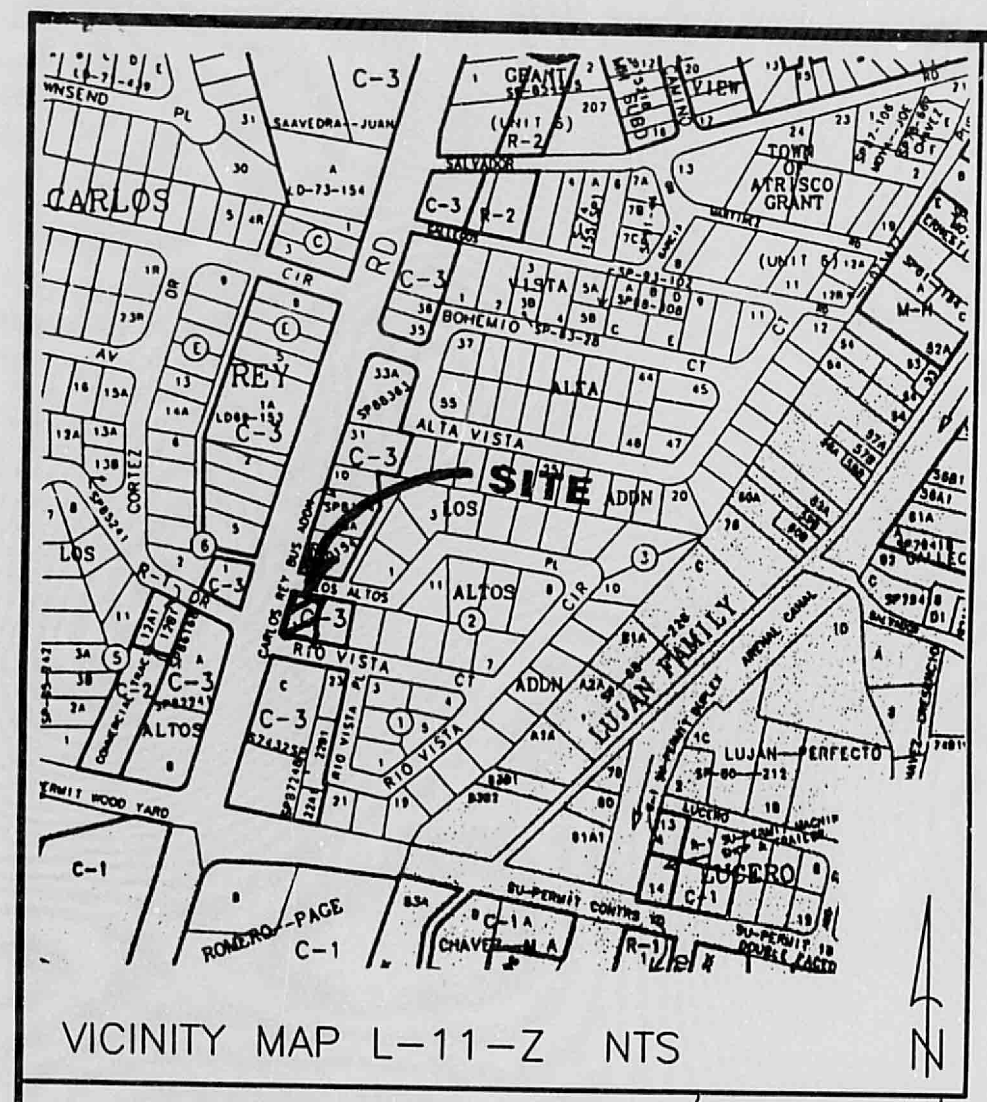
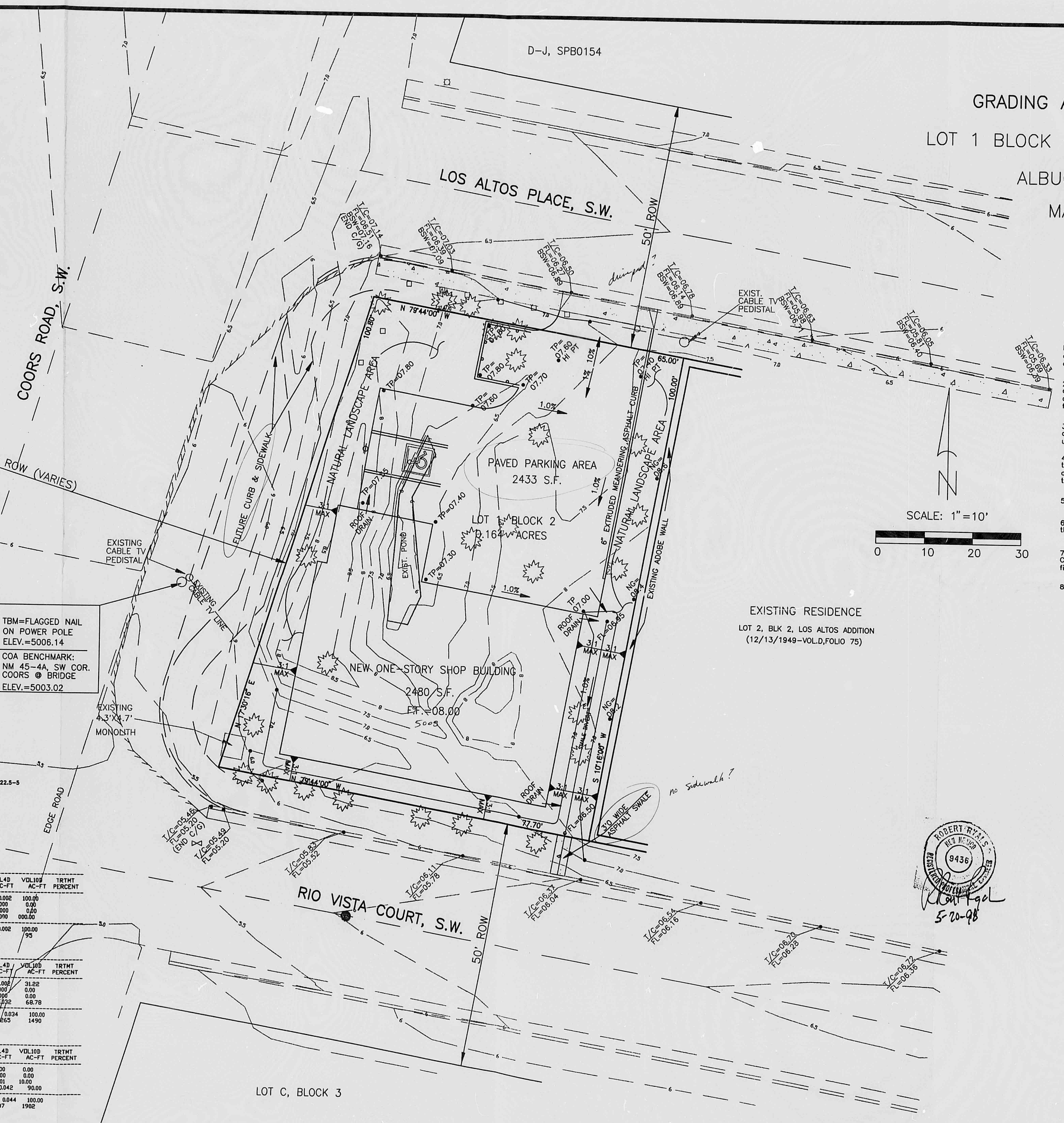
MAY 1 9 1998
HYDROLOGY SECTION


CARLOS
REY
SITE
ALTOS
LUJAN FAMILY
C-1
C-3
N

VICINITY MAP L-11-Z NTS


D-J, SPB0154
LOS ALTOS PLACE, S.W.
50' ROW
COORS ROAD, S.W.
95' ROW (VARIES)
EDGE ROAD
EXISTING CABLE TV PEDISTAL
EXISTING CABLE TV LINE
EXIST. CABLE TV PEDISTAL
EXISTING 4.3'X4.7' MONOLITH
FUTURE CURB & SIDEWALK
NATURAL LANDSCAPE AREA
PAVED PARKING AREA 2433 S.F.
LOT 1 BLOCK 2 0.164 ACRES
EXIST. POND
ROOF DRAIN
NEW ONE-STORY SHOP BUILDING 2480 S.F. F.F.=08.00
5009
6" EXTRUDED MEANDERING ASPHALT CURB
EXISTING ADOBE WALL
3' WIDE ASPHALT SWALE
N 79°44'00" W
S 10°16'00" W
N 17°30'16" E
100.80'
65.00'
100.00'
77.70'
TP=07.80
TP=07.70
TP=07.60
TP=07.55
TP=07.40
TP=07.30
TP 07.00
TP=07.40 HI PT
TP=07.60 HI PT
NG=08.6
NG=08.4
NG=08.2
FL=06.95
1.0%
3:1 MAX
T/C=07.14 FL=06.51 BSW=07.16 END C/G
T/C=07.03 FL=06.39 BSW=07.09
T/C=06.50 FL=06.27 BSW=06.88
T/C=06.78 FL=06.14 BSW=06.89
T/C=05.90
T/C=06.33 FL=05.69 BSW=06.39
T/C=05.46 END C/G
T/C=05.63 FL=05.20
T/C=05.83 FL=05.52
T/C=06.11 FL=05.78
T/C=06.77 FL=06.34
T/C=06.54 FL=06.16
T/C=06.70 FL=06.28
T/C=06.72 FL=06.36
RIO VISTA COURT, S.W.
LOT C, BLOCK 3
EXISTING RESIDENCE
LOT 2, BLK 2, LOS ALTOS ADDITION (12/13/1949-VOL.D,FOLIO 75)
SCALE: 1"=10'
0 10 20 30
N
driveway?
no sidewalk?
floodplain?

LEGAL DESCRIPTION: LOT 1, BLOCK 2, LOS ALTOS ADDITION
ALBUQUERQUE, NEW MEXICO

FLOOD PLAIN: Panel #329 of 825: ZONE"X" (Outside 500 year floodplain)

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The storm drain portion of the project, which will accept flows from this site, is scheduled to be completed by Dec., 1998.

landscape not "A"

outfall?
interim plan?

TBM=FLAGGED NAIL
ON POWER POLE
ELEV.=5006.14

COA BENCHMARK:
NM 45-4A, SW COR.
COORS @ BRIDGE
ELEV.=5003.02

ALBUQUERQUE, NM, DPM (1/93) CRITERIA - SIMPLE PROCEDURE FOR <= 40 ACRES
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LOT 1, BLOCK 2, LOS ALTOS ADDITION, MAP L-11
ENTIRE SITE=7134 SF

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100-YEAR PRECIPTATION (P) DEPTHS, INCHES

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B	0.00	0.0000	0.67	2.03	0.000	0.000	0.000	0.000	0.000	0.00
C	0.00	0.0000	0.99	2.87	0.000	0.000	0.000	0.000	0.000	0.00
D	0.00	0.0000	1.97	4.37	0.000	0.000	0.000	0.000	0.000	000.00
TOTAL	2581.00	0.0593			0.076	0.002	0.002	0.002	0.002	100.00
					CU FT	95	95	95	95	

05/17/98 06:13 PM PROPOSED SITE DEVELOPMENT

TRTMT CLASS	AREA SQUARE FEET	AREA ACRES	PX100-6 IN/AC	QP100-6 CFS/AC	QP100-6 CFS	VOL6HR AC-FT	VOL1D AC-FT	VOL4D AC-FT	VOL10D AC-FT	TRTMT PERCENT
NO A	2230.00	0.0512	0.44	1.29	0.066	0.002	0.002	0.002	0.002	31.22
B	0.00	0.0000	0.67	2.03	0.000	0.000	0.000	0.000	0.000	0.00
C	0.00	0.0000	0.99	2.87	0.000	0.000	0.000	0.000	0.000	0.00
D	4913.00	0.1128	1.97	4.37	0.493	0.019	0.023	0.027	0.032	68.78
TOTAL	7143.00	0.1640			0.559	0.020	0.025	0.029	0.034	100.00
					CU FT	888	1077	1265	1490	

05/17/98 06:13 PM MAX ALLOWED RUNOFF FOR LOCAL STORM DRAIN DESIGN

TRTMT CLASS	AREA SQUARE FEET	AREA ACRES	PX100-6 IN/AC	QP100-6 CFS/AC	QP100-6 CFS	VOL6HR AC-FT	VOL1D AC-FT	VOL4D AC-FT	VOL10D AC-FT	TRTMT PERCENT
A	0.00	0.0000	0.44	1.29	0.000	0.000	0.000	0.000	0.000	0.00
B	0.00	0.0000	0.67	2.03	0.000	0.000	0.000	0.000	0.000	0.00
C	714.00	0.0164	0.99	2.87	0.047	0.001	0.001	0.001	0.001	10.00
D	6429.00	0.1476	1.97	4.37	0.645	0.024	0.030	0.036	0.042	90.00
TOTAL	7143.00	0.1640			0.692	0.026	0.031	0.037	0.044	100.00
					CU FT	1114	1361	1607	1902	

GENERAL NOTES

1. An excavation\construction permit will be required before beginning ~~any work~~ within City of Albuquerque right-of-way. An approved copy of ~~these plans~~ must be submitted at the time of application for this permit.

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5. Backfill compaction shall be 95% max. theoretical density.

6. Maintenance of these facilities shall be the responsibility of the Owner of the property served.

7. Verify all flowline elevations and slopes prior to construction. Consult with the Engineer regarding discrepancies immediately, before final layout or start of construction.

8. Curbs & sidewalks in the ROW are per City Standards.

ROBERT RYALS 9436
5-20-98

LEGEND

BOUNDARY	———
EXISTING LOT ANNOTATION	LOT 8
EXISTING CONTOURS	——8.0——
EXISTING CONTOURS	—— 8.0 ——
R.O.W. LINE	———
EX. CURB AND GUTTER	═══ ═══
EX. CONCRETE SIDEWALK	▨
EDGE OF PAVEMENT	//////////
EXISTING WATER VALVE	⋈
EXISTING MANHOLE	●
EXISTING TREE OR BUSH	✹
EXISTING 4X4 POST	□
EXISTING 8" DIA POST	○
PROPOSED HANDICAPPED SIGN	ϕ
PROPOSED BOLLARD	∘

TG	TOP GROUND
BSW	BACK SIDEWALK
TC	TOP CURB
FL	FLOW LINE
TP	TOP PAVE
NG	NATURAL GROUND

DWG:F:\WORK\JOHNJOHN\TOPO1 DATE05/19/98 TIME:12:00 RYALS Engineering-HB

R Y A L S engineering & construction services
5301 Central Ave. Albuquerque, NM 87108
(505) 256-4701 243-8706 mobile telephone

SHEET NO. 1 OF 1

CITY OF ALBUQUERQUE
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R# 27 DATE 3-29-02 OP E.J.P.

CITY OF ALBUQUERQUE

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1/15/02
DIRECTOR

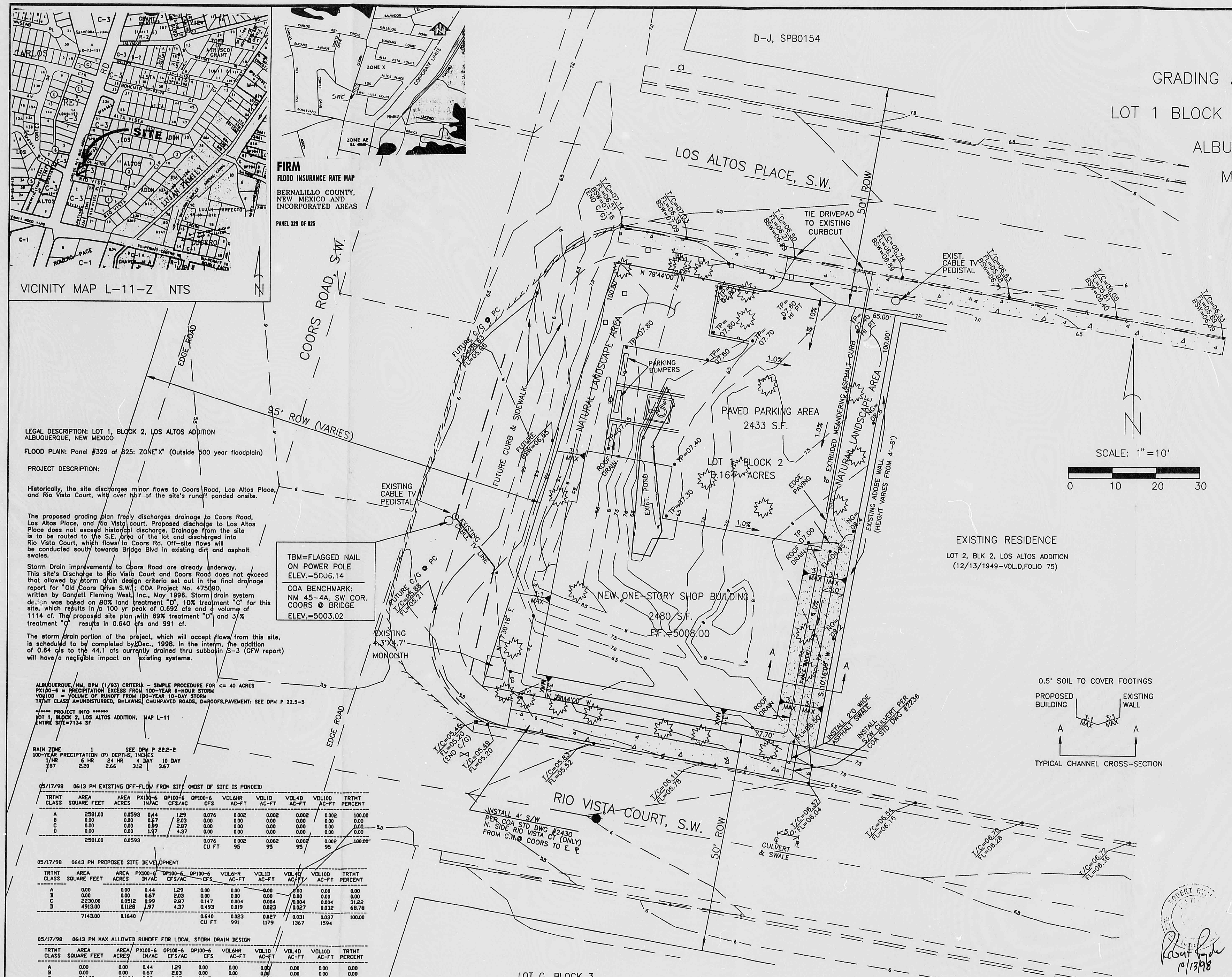
Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/08/02

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

GRADING AND DRAINAGE PLAN
LOT 1 BLOCK 2, LOS ALTOS ADDITION
ALBUQUERQUE, NM
MAY, 1998

OCT 1 3 1998
HYDROLOGY SECTION


VICINITY MAP L-11-Z NTS
SITE
FIRM
FLOOD INSURANCE RATE MAP
BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS
PANEL 329 OF 825
ZONE X
D-J, SPB0154
LOS ALTOS PLACE, S.W.
COORS ROAD, S.W.
RIO VISTA COURT, S.W.
50' ROW
95' ROW (VARIES)
EDGE ROAD
TIE DRIVEPAD TO EXISTING CURBCUT
EXIST. CABLE TV PEDISTAL
EXISTING CABLE TV PEDISTAL
FUTURE CURB & SIDEWALK
NATURAL LANDSCAPE AREA
PARKING BUMPERS
PAVED PARKING AREA
2433 S.F.
LOT 1 BLOCK 2
0.164 ACRES
NEW ONE-STORY SHOP BUILDING
2480 S.F.
F.F.=5008.00
ROOF DRAIN
EDGE PAVING
EXTRUDED MEANDERING ASPHALT CURB
EXISTING ADOBE WALL (HEIGHT VARIES FROM 4'-6')
INSTALL 2'0 WIDE ASPHALT SWALE
INSTALL S/W CULVERT PER COA STD DWG #2236
INSTALL 4' S/W PER COA STD DWG #2430 N. SIDE RIO VISTA CT (ONLY) FROM C.M. COORS TO E. R
CULVERT & SWALE
EXISTING 4.3'X4.7' MONOLITH
EXISTING RESIDENCE
LOT 2, BLK 2, LOS ALTOS ADDITION
(12/13/1949-VOL.D,FOLIO 75)
LOT C, BLOCK 3
SCALE: 1"=10'
0 10 20 30
N

TBM=FLAGGED NAIL
ON POWER POLE
ELEV.=5006.14

COA BENCHMARK:
NM 45-4A, SW COR.
COORS @ BRIDGE
ELEV.=5003.02

0.5' SOIL TO COVER FOOTINGS
PROPOSED BUILDING
EXISTING WALL
3:1 MAX
3:1 MAX
TYPICAL CHANNEL CROSS-SECTION

LEGAL DESCRIPTION: LOT 1, BLOCK 2, LOS ALTOS ADDITION
ALBUQUERQUE, NEW MEXICO

FLOOD PLAIN: Panel #329 of 825: ZONE"X" (Outside 500 year floodplain)

PROJECT DESCRIPTION:

Historically, the site discharges minor flows to Coors Road, Los Altos Place, and Rio Vista Court, with over half of the site's runoff ponded onsite.

The proposed grading plan freely discharges drainage to Coors Road, Los Altos Place, and Rio Vista court. Proposed dischage to Los Altos Place does not exceed historical discharge. Drainage from the site is to be routed to the S.E. area of the lot and discharged into Rio Vista Court, which flows to Coors Rd. Off-site flows will be conducted south towards Bridge Blvd in existing dirt and asphalt swales.

Storm Drain improvements to Coors Road are already underway. This site's Discharge to Rio Vista Court and Coors Road does not exceed that allowed by storm drain design criteria set out in the final drainage report for "Old Coors Drive S.W."; COA Project No. 475090, written by Gannett Fleming West, Inc., May 1996. Storm drain system design was based on 90% land treatment "D", 10% treatment "C" for this site, which results in a 100 yr peak of 0.692 cfs and a volume of 1114 cf. The proposed site plan with 69% treatment "D" and 31% treatment "C" results in 0.640 cfs and 991 cf.

The storm drain portion of the project, which will accept flows from this site, is scheduled to be completed by Dec., 1998. In the interm, the addition of 0.64 cfs to the 44.1 cfs currently drained thru subbasin S-3 (GFW report) will have a negligible impact on existing systems.

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ALBUQUERQUE, NM, DPM (1/93) CRITERIA - SIMPLE PROCEDURE FOR <= 40 ACRES
PX100-6 = PRECIPITATION EXCESS FROM 100-YEAR 6-HOUR STORM
VOL10D  = VOLUME OF RUNOFF FROM 100-YEAR 10-DAY STORM
TRTMT CLASS A=UNDISTURBED, B=LAWNS, C=UNPAVED ROADS, D=ROOFS,PAVEMENT: SEE DPM P 22.5-5

****** PROJECT INFO ******
LOT 1, BLOCK 2, LOS ALTOS ADDITION,  MAP L-11
ENTIRE SITE=7134 SF

RAIN ZONE          1          SEE DPM P 22.2-2
100-YEAR PRECIPTATION (P) DEPTHS, INCHES
   1 HR      6 HR     24 HR     4 DAY    10 DAY
   1.87      2.20      2.66      3.12     3.67
```

05/17/98 06:13 PM EXISTING OFF-FLOW FROM SITE (MOST OF SITE IS PONDED)

TRTMT CLASS	AREA SQUARE FEET	AREA ACRES	PX100-6 IN/AC	QP100-6 CFS/AC	QP100-6 CFS	VOL6HR AC-FT	VOL1D AC-FT	VOL4D AC-FT	VOL10D AC-FT	TRTMT PERCENT
A	2581.00	0.0593	0.44	1.29	0.076	0.002	0.002	0.002	0.002	100.00
B	0.00	0.00	0.67	2.03	0.00	0.00	0.00	0.00	0.00	0.00
C	0.00	0.00	0.99	2.87	0.00	0.00	0.00	0.00	0.00	0.00
D	0.00	0.00	1.97	4.37	0.00	0.00	0.00	0.00	0.00	0.00
	2581.00	0.0593			0.076	0.002	0.002	0.002	0.002	100.00
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					CU FT	991	1179	1367	1594	

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EXISTING CONTOURS	—— 8.0 ——
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EX. CURB AND GUTTER	═══
EX. CONCRETE SIDEWALK	▨
GRAVEL GROUND-COVER	▨
EDGE OF PAVEMENT	//////////
EXISTING WATER VALVE	⋈
EXISTING MANHOLE	●
EXISTING TREE OR BUSH	✷
EXISTING 4X4 POST	□
EXISTING 8" DIA POST	○
PROPOSED HANDICAPPED SIGN	ϕ
PROPOSED BOLLARD	∘

TG	TOP GROUND
BSW	BACK SIDEWALK
TC	TOP CURB
FL	FLOW LINE
TP	TOP PAVE
NG	NATURAL GROUND

ROBERT RYALS

Robert Ryals
10/13/98

DWG:A:\TOPO1 DATE10/13/98 TIME:14:27 RYALS Engineering-HB

R Y A L S engineering & construction services
5301 Central Ave. Albuquerque, NM 87108
(505) 256-4701 243-8706 mobile telephone

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R# 27 DATE 3-29-02 OP E.G.P.

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1/15/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

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STATE OF NEW MEXICO
My Commission Expires: 07/08/02

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