

Planning Department Transportation Development Services Section

June 23, 2005

Fred Arfman, PE ISAACSON & ARFMAN, PA 128 Monroe St. NE Albuquerque, NM 87108

Re: Certification Submittal for Final Building Certificate of Occupancy for

Autozone Store No. 3407, [K-22/ D40], 12904 Lomas Blvd. NE

Engineer's Letter Dated 06/22/2005

Dear Mr. Arfman:

P.O. Box 1293

The TCL / Letter of Certification submitted on 06/22/2005 is approved by this office for final Certificate of Occupancy (C.O.) for Transportation. Notification has been made to the Building and Safety Section.

Albuquerque

Please note: In future submittals, use a copy of the City stamped approved TCL for certification. Thank you.

New Mexico 87103

www.cabq.gov

#//

Wilfred Gallegos, P.E. Traffic Engineer

Sincerely,

Development and Building Services

Planning Department

c: File

Hydrology file

(REV. 1/28/2003rd)

PROJECT TITLE: <u>Autozone Store No. 3407</u> DRB #:EPC #:	ZONE MAP / DRG. FILE #: K-22/D4C
LEGAL DESCRIPTIONS LOT ARE BY A THE	WORK ORDER #:
LEGAL DESCRIPTION: LOT 2F1, BLOCK 2A, CHELWOOD PARK SUCITY ADDRESS: 12904 LOMAS NE	JBDIVISION
ENGINEERING FIRM: Isaacson & Arfman, P.A.	CONTACT: EDED ADELLAS
ADDRESS: 128 Monroe St. NE	CONTACT: FRED ARFMAN
CITY, STATE: Albuquerque, NM	PHONE: 268-8828 ZIP CODE: 87108
OWNER: AUTOZONE - STURE DEVELOPMENT, DEPT.	SZ. CONTRACT
ADDRESS: 123 S. FRONT STREET	DUONE ARTHUR MALE
CITY, STATE: MEMPHIS TO. 38103	PHONE: (901) 495 - 8726 ZIP CODE:
ARCHITECT: ADTO ZONE	
ADDRESS: (SZE ABOVE)	CONTACT:
CITY, STATE:	PHONE:
	ZIP CODE:
SURVEYOR: HARRIS SURVEYING	CONTACT: LUNT HARRIS
ADDRESS: 2412 MONRAS ST. NE	PHONE: 887-805C
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: Sつルも
CONTRACTOR: D/A-	CONTACT:_
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
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CONCEPTUAL GRADING & DRAINNGE PLAN	S. DEV_PLAN FOR SUB'D APPROVAL
GRADING PLAN	S DEV PLAN FOR BLDG PERMIT APPR
EROSION CONTROL PLAN	SECTOR PLAN APPROVAL
ENGINEER'S CERTIFICATION (HYDROLOGY)	FINAL PLAT APPROVAL
CLOMR / LOMR	FOUNDATION PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL)	BUILDING PERMIT APPROVAL
ENGINEER'S CERTIFICATION (TCL)	CERTIFICATE OF OCCUPANCY (PERM)
ENGINEER'S CERTIFICATION (DRB APPR, SITE PLAN)	CERTIFICATE OF OCCUPANCY (TEMP)
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Requests for approvals of Site Development Plans and / or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following

- 1 Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five acres and Sector Plans
- 2 Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five acres
- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five acres or more.



June 23, 2005

Mr. Fred Arfman, P.E.

ISAACSON & ARFMAN, PA

128 Monroe St. NE

Albuquerque, NM 87108

Re: AUTOZONE STORE NO. 3407

12904 Lomas Blvd. NE

Approval of Permanent Certificate of Occupancy (C.O.)

Engineer's Stamp dated 03/08/2005 (K-22/D40)

Certification dated 06/22/2005

P.O. Box 1293

Dear Fred:

Albuquerque

Based upon the information provided in your submittal received 06/22/2005, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3982.

New Mexico 87103

www.cabq.gov

Sincerely, (Krlene U. Portilla

Arlene V. Portillo

Plan Checker, Planning Dept. - Hydrology

Development and Building Services

C: Phyllis Villanueva

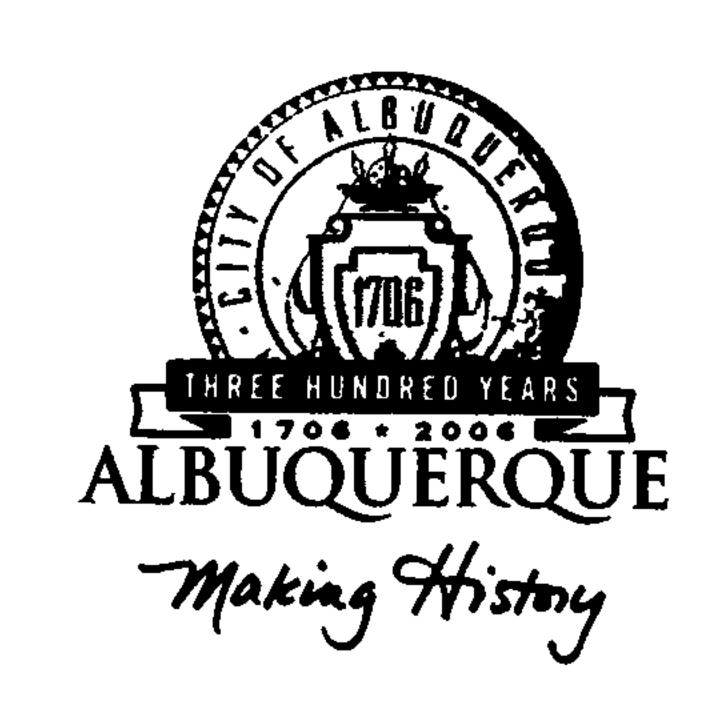
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(REV. 1/28/2003rd)

PROJECT TITLE: <u>Autozone Store No. 3407</u> DRB #:EPC #:	ZONE MAP / DRG. FILE #: K-22 / D40 WORK ORDER #:
LEGAL DESCRIPTION: LOT 2F1, BLOCK 2A, CHELWOOD PARK SUBI CITY ADDRESS: 12904 LOMAS NE	DIVISION
ENGINEERING FIRM: Isaacson & Arfman, P.A.	('()) (') () () () () () () () () () () () () ()
ADDRESS: 128 Monroe St. NE	CONTACT: FRED ARFMAN
CITY, STATE: Albuquerque, NM	PHONE: 268-8828
	ZIP CODE: 87108
OWNER: AUTOZONE - STORE DEVELOPMENT, DEPT. 830 ADDRESS: 123 3. FRONT STREET	OCONTACT: ARTHUR Alays
	PHONE: (901) 495-8726
CITY, STATE: MEMPHIS TO 38103	ZIP CODE:
ARCHITECT: ADTO ZONE	(1()) (1) () () () () () () (
ADDRESS: (SZE ABOVE)	CONTACT:
CITY, STATE:	PHONE:
	ZIP CODE:
SURVEYOR: HARRIS SURVEYING	CONTACT: LUNG HORRIS
ADDRESS: 2412 MONRAG ST. NE	PHONE: 859-19050
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: 57117
CONTRACTOR: 1/A-	
ADDRESS:	CONTACT:
CITY, STATE:	PHONE:
	ZIP CODE:
CHECK TYPE OF SUBMITTAL:	
DRAINAGE REPORT	CHECK TYPE OF APPROVAL SOUGHT
DRAINAGE PLAN I ST REQUIRES TCL or equal	SIA / FINANCIAL GUARANTEE RELEASE
DRAINAGE PLAN RESUBMITTAL	PRELIMINARY PLAT APPROVAL
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GRADING PLAN	S. DEV_PLANTOR BLDG_PFRMIT APPR
EROSION CONTROL PLAN	SECTOR PLAN APPROVAL
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CLOMR / LOMR	FOUNDATION PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL)	BUILDING PERMIT APPROVAL
ENGINEER'S CERTIFICATION (TCL)	CERTIFICATE OF OCCUPANCY (PERM)
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March 9, 2005

Fred Arfman, R.A. Isaacson & Arfman, P.A. 128 Monroe NE Albuquerque, NM 87108

Re:

AutoZone 12904 Lomas NE, Traffic Circulation Layout

Engineer's Stamp dated 3-8-05 (K-22/D40)

Dear Mr. Arfman,

The TCL submittal received 3-8-05 is approved for Building Permit. The plan is stamped and signed as approved. A copy of this plan will be needed for each of the building permit plans. Please keep the original to be used for certification of the site for final C.O. for Transportation.

If a temporary CO is needed, a copy of the original TCL that was stamped as approved by the City will be needed. This plan must include a statement that identifies the outstanding items that need to be constructed or the items that have not been built in "substantial compliance," as well as the signed and dated stamp of a NM registered architect or engineer. Submit this TCL with a completed <u>Drainage and Transportation Information Sheet</u> to Hydrology at the Development Services Center of Plaza Del Sol Building.

Albuquerque

www.cabq.gov

P.O. Box 1293

When the site is completed and a final C.O. is requested, use the original City stamped approved TCL for certification. A NM registered architect or engineer must stamp, sign, and date the certification TCL along with indicating that the development was built in "substantial compliance" with the TCL. Submit this certification TCL with a completed <u>Drainage and Transportation Information Sheet</u> to Hydrology at the Development Services Center of Plaza

New Mexico 87103 Del Sol Building.

Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. To confirm that a final C.O. has been issued, call Building Safety at 924-3306.

Sincerely,

Wilfred Gallegos, PE

Traffic Engineer, Planning Dept.

Development and Building Services

cc: file

(REV. 1/28/2003rd)

PROJECT TITLE: Autozone Store No. 3407	70NE MAD / DDC - DH D # - 1/ 00
DRB #:EPC #:	ZONE MAP / DRG. FILE #: <u>K-22</u> WORK ORDER #:
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LEGAL DESCRIPTION: LOT 2F1, BLOCK 2A, CHELWOOD PARK SUBDITION ADDRESS: 12004 LONAS NE	VISION
CITY ADDRESS: 12904 LOMAS NE	
ENGINEERING FIRM: Isaacson & Arfman, P.A.	COMTACT, EDED ADDIANT
ADDRESS: 128 Monroe St. NE	CONTACT: FRED ARFMAN PHONE: 268-8828
CITY, STATE: Albuquerque, NM	ZIP CODE: <u>87108</u>
OWNER: AUTOZONE - STURE DEVELOPMENT, DEPT. 8300	CONTACT: ARTHOR NIALZ
ADDRESS: 123 S. FRONT STREET	PHONE: 901 495-8726
CITY, STATE: MEmories TD. 38103	ZIP CODE:
ARCHITECT: AND ZONE	CONTACT:
ADDRESS: (SEE ABOVE)	PHONE:
CITY, STATE:	ZIP CODE:
SURVEYOR: HARRIS SURVEYING	
	CONTACT: JUNIT HARRIS
ADDRESS: 2412 MONRAS ST. NE	PHONE: 887-805C
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: 多フルも
CONTRACTOR: $A)/A$	
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CITY CTATE.	PHONE:
	ZIP CODE:
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CONCEPTUAL GRADING & DRAINAGE PLAN	S. DEV. PLAN FOR SUB'D APPROVAL
GRADING PLAN	S. DEV_PLAN FOR BLDG. PERMIT APPR.
EROSION CONTROL PLAN	SECTOR PLAN APPROVAL
ENGINEER'S CERTIFICATION (HYDROLOGY)	FINAL PLAT APPROVAL
CLOMR / LOMR	FOUNDATION PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL)	X BUILDING PERMIT APPROVAL
ENGINEER'S CERTIFICATION (TCL)	CERTIFICATE OF OCCUPANCY (PERM)
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03-08-05	MILLI "SEGY SEG
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DATE SUBMITTED: Friday, January 14, 2005	BY: BRYAN BOBRICK HY
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March 11, 2005

Fred Arfman, P.E.
Isaacson & Arfman, P.A.
128 Monroe St. NE
Albuquerque, NM 87108

Re: AutoZone at Lomas and Nakomis, 12904 Lomas Blvd NE, Grading and Drainage Plan

Engineer's Stamp dated 3-08-05 (K22-D40)

Dear Mr. Arfman,

Based upon the information provided in your submittal received 1-14-05, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions regarding this permit please feel free to call the DMD Storm Drainage Design section at 768-3654 (Charles Caruso).

New Mexico 87103

P.O. Box 1293

Albuquerque

If you have any questions, you can contact me at 924-3981.

www.cabq.gov

Kristal D. Metro

Sincerely,

Engineering Associate, Planning Dept. Development and Building Services

C: File

Charles Caruso

(REV. 1/28/2003rd)

PROJECT TITLE: <u>Autozone Store No. 3407</u> DRB #: EPC #:	ZONE MAP / DRG. FILE #: K-22/540
	WORK ORDER #:
LEGAL DESCRIPTION: LOT 2F1, BLOCK 2A, CHELWOOD PARK S CITY ADDRESS: 12904 LOMAS NE	
ENGINEERING FIRM: Isaacson & Arfman, P.A.	CONTACT: FRED ARFMAN
ADDRESS: 128 Monroe St. NE	PHONE: 268-8828
CITY, STATE: Albuquerque, NM	7ID (100)
OWNER: AUTOZONE	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
ARCHITECT:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
SURVEYOR: HARRIS SURVEYING	CONTACT:
ADDRESS:	PHONE:
CITY, STATE: Albuquerque, New Mexico	ZIP CODE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
CHECK TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SIA / FINANCIAL GUARANTEE RELEASE
XDRAINAGE PLAN I ST REQUIRES TCL or equal	PRELIMINARY PLAT APPROVAL
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EROSION CONTROL PLAN	SECTOR PLAN APPROVAL FINAL PLAT APPROVAL
ENGINEER'S CERTIFICATION (HYDROLOGY)	FOUNDATION PERMIT APPROVAL
CLOMR / LOMR	BUILDING PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL)	CERTIFICATE OF OCCUPANCY (PERM)
ENGINEER'S CERTIFICATION (TCL)	CERTIFICATE OF OCCUPANCY (TEMP)
ENGINEER'S CERTIFICATION (DRB APPR, SITE PLAN)	GRADING PERMIT APPROVAL
OTHER	PAVING PERMIT APPROVAL
	WORK ORDER APPROVAL
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WAS A PRE-DESIGN CONFERENCE ATTENDED:	
YES	
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COPY PROVIDED	JAN 1 4 2005
DATE SUBMITTED: Friday, January 14, 2005	BY: BRYAN BOBRICK HYDROLOGY SECTION

Isaacson & Arfman, P.A.

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March 9, 2005

Wilfred Gallegos, P.E.
Traffic Engineer
Development and Building Services
City of Albuquerque
600 2nd Street
Albuquerque, NM

Re: AutoZone

12904_Lomas NE

K-22-D40J

Dear Mr Gallegos

In regard to the referenced project, please be advised that, in the event that the vacant land to the west of the AutoZone parcel is developed, and that the Developer desires to connect to the westerly driveway on the AutoZone property, AutoZone will cooperate with the Developer in this regard to the extent that is practical.

Sincerely,

Arthur Nave

Pre-Construction Project Manager

Cc,



March 9, 2005

Wilfred Gallegos, P.E.
Traffic Engineer
Development and Building Services
City of Albuquerque
600 2nd Street
Albuquerque, NM

Re: AutoZone

12904 Lomas NE

K-22-D40

Dear Mr Gallegos

In regard to the referenced project, please be advised that, in the event that the vacant land to the west of the AutoZone parcel is developed, and that the Developer desires to connect to the westerly driveway on the AutoZone property, AutoZone will cooperate with the Developer in this regard to the extent that is practical.

Sincerely,

Arthur Nave

Pre-Construction Project Manager

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Cc,

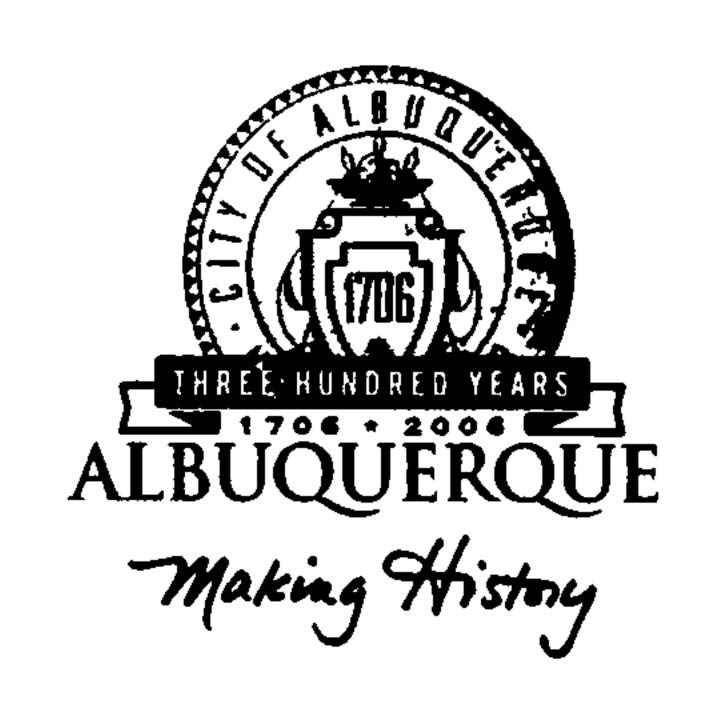
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(REV. 1/28/2003rd)

PROJECT TITLE: Autozone Store No. 3407	70NIC MAAD / DDG DU D
DRB #:EPC #:	ZONE MAP / DRG. FILE #: K-22 / D40 WORK ORDER #:
	
LEGAL DESCRIPTION: LOT 2F1, BLOCK 2A, CHELWOOD PARK SUBD CITY ADDRESS: 12904 LOMAS NE	IVISION
OTT 1 ADDITESS. IZZO4 LONIAS NE	
ENGINEERING FIRM: Isaacson & Arfman, P.A.	
ADDRESS: 128 Monroe St. NE	CONTACT: FRED ARFMAN
CITY, STATE: Albuquerque, NM	PHONE: 268-8828
· · · · · · · · · · · · · · · · · · ·	ZIP CODE: <u>87108</u>
OWNER: AUTOZONE - STARE DEVELOPMENT, DEPT. 8300 ADDRESS: 123 S. FRANT STREET	CONTACT: Acres Ala -
ADDRESS: 123 S. FRONT STREET	PHONE: (901) 495 - 8726
CITY, STATE: MEmories To. 38103	ZIP CODE: (707) 473 - 8726
	ZII CODE,
ARCHITECT: AUTO ZONE	CONTACT:
ADDRESS: (SJE ABOVE)	PHONE:
CITY, STATE:	ZIP CODE:
SURVEYOR: HARRIS SURVEYING	CONTACT: TONY HARRIS
ADDRESS: 2412 MONRAG STNE	CONTACT: 10~7 HARRIS PHONE: 859- 8050
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: 57110
CONTRACTOR: 1/A-	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
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DRAINAGE PLAN RESUBMITTAL	PRELIMINARY PLAT APPROVAL
CONCEPTUAL GRADING & DRAINAGE PLAN	S. DEV. PLAN FOR SUB'D APPROVAL
GRADING PLAN	S. DEV PLAN FOR BLDG. PERMIT APPR
EROSION CONTROL PLAN	SECTOR PLAN APPROVAL
ENGINEER'S CERTIFICATION (HYDROLOGY)	FINAL PLAT APPROVALFOUNDATION PERMIT APPROVAL
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ENGINEER'S CERTIFICATION (TCL)	CERTIFICATE OF OCCUPANCY (TEMP)
ENGINEER'S CERTIFICATION (DRB APPR, SITE PLAN) OTHER	GRADING PERMIT APPROVAL
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03-01-05	
	FREDC. ARHYDROLOGY SECTION
DATE SUBMITTED: Friday, January 14, 2005	BY: BRYAN BOBRICK
	Isaacson & Arfman, P.A
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February 25, 2005

Fred Arfman, P.E. Isaacson & Arfman, P.A. 128 Monroe Street NE Albuquerque, NM 87108

Re: AutoZone, 12904 Lomas NE, Traffic Circulation Layout

Architect's / Engineer's Stamp dated 2-16-05 (K-22-D40)

Dear Mr. Arfman,

Based upon the information provided in your submittal received 2-18-05, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

P.O. Box 1293

- 1. Please show the location of the nearest driveway on the adjacent lot.
- 2. The proposed driveway onto Lomas may not meet DPM requirements. How is the 45' common access easement being used?

Albuquerque

- 3. Please show a vicinity map.
- 4. Identify the ADA spaces.
- 5. Please include two copies of the traffic circulation layout at the next submittal.

New Mexico 87103

6. Please note that the 2-foot overhang is not allowed to encroach on the 6 foot required width of sidewalk. Also, all standard parking spaces have a minimum length of 18 feet.

www.cabq.gov

- 7. Define width of the existing sidewalk..
- 8. Please ensure all ramps are ADA compliant.

If you have any questions, you can contact me at 924-3991.

Sincerely,

Wilfred A. Gallegos, P.E.

Traffic Engineer, Planning Dept.

Development and Building Services

C: file

(REV. 1/28/2003rd)

PROJECT TITLE: <u>Autozone Store No. 3407</u> DRB #: EPC #:	ZONE MAP / DRG. FILE #: K-22
	WORK ORDER #:
LEGAL DESCRIPTION: LOT 2F1, BLOCK 2A, CHELWOOD PARK SUBDITION ADDRESS: 12904 LOMAS NE	VISION
ENGINEERING FIRM: Isaacson & Arfman, P.A.	CONTACT: FRED ARFMAN
ADDRESS: 128 Monroe St. NE	PHONE: 268-8828
CITY, STATE: Albuquerque, NM	ZIP CODE: 87108
OWNER: AUTOZONE - STURE DEVELOPMENT, DEPT 8500	
ADDRESS: 123 S. FRONT STREET	PHONE: (901) 495-8726
CITY, STATE: MEMORIS, TD. 38103	ZIP CODE:
ARCHITECT: ASTO ZONE	CONTACT:
ADDRESS: (SZE ABOVE	PHONE:
CITY, STATE:	ZIP CODE:
	ZIT CODE.
SURVEYOR: HARRIS SURVEYING	CONTACT: TONT HARRIS
ADDRESS: 2412 MONRAG ST. NE	PHONE: 887-805C
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: 多フルカ
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CONTRACTOR: 1/A-	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
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COPY PROVIDED	
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DATE SUBMITTED: Friday, January 14, 2005	BY: BRYAN BOBRICK
	Isaacson & Arfman, P.A.
Requests for approvals of Site Development Plans and / or Subdivision Plats shall be accomscope of the proposed development defines the degree of drainage detail. One or more of the l. Conceptual Grading and Drainage Plan: Required for approval of Site Develo 2. Drainage Plans: Required for building permits, grading permits, paving permit 3. Drainage Report Required for subdivisions containing more than ten (10) lots	panied by a drainage submittal. The particular nature, location and collowing levels of submittal may be required based on the following: pment Plans greater than five acres and Sector Plans its and site plans less than five acres.

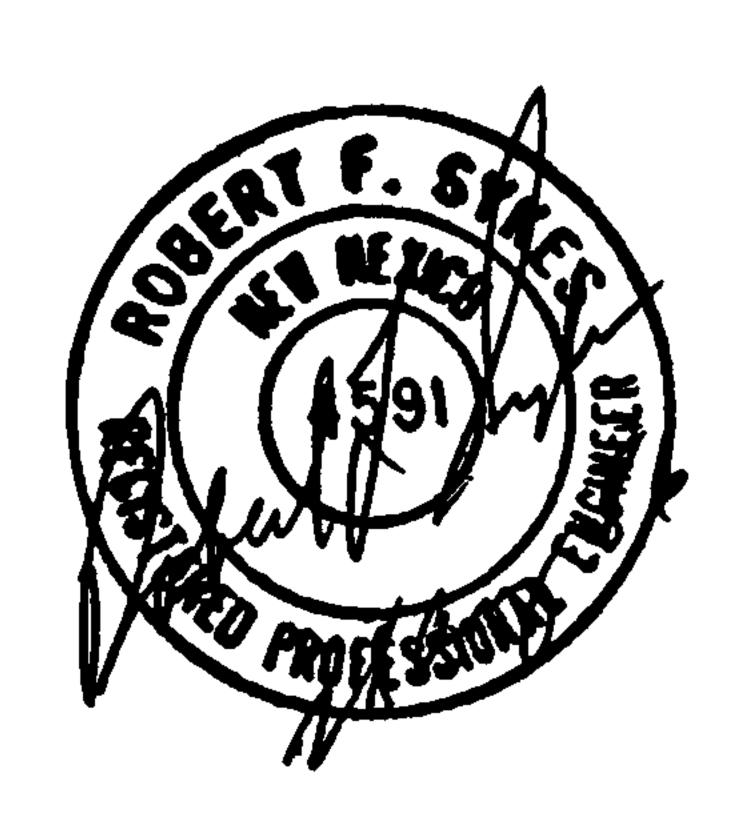
HYDROLOGY SECTION

ENGINEER'S DRAINAGE REPORT FOR LOMAS PLAZA AT SOUTHWEST CORNER OF LOMAS BLVD. & NAKOMIS DRIVE

LOT 2F
BLOCK 2-A
CHELWOOD PARK ADDITION

ZONE MAP K-22

WILSON & COMPANY
ENGINEERS & ARCHITECTS
P. O. BOX 3548
ALBUQUERQUE, NEW MEXICO 87190



WILSON COMPANY ENGINEERS ARCHITECTS

ENGINEER'S DRAINAGE REPORT FOR LOMAS PLAZA

LOCATION: The project is located at the southwest corner of Lomas Blvd. and Nakomis Drive in the Northeast Heights of Albuquerque, New Mexico.

LEGAL DESCRIPTION: Lot 2F, Block 2-A of Chelwood Park Addition

PROJECT DESCRIPTION: The property will be developed as retail and office buildings. Present zoning is C-1.

EXISTING CONDITIONS: The site a 1.06 acre undeveloped lot.

CRITERIA FOR HYDROLOGIC COMPUTATIONS: The Soil Conservation Service method is used to determine peak flows. The curve numbers, point rainfall and runoff volume rate are as determined from charts found in Volume 2 of the City of Albuquerque Development Process Manual.

DISCUSSION: The flow from the existing site flows west onto the adjoining lot. The 100-year peak flow for existing conditions is 4.09 cfs.

The proposed improvements will divide the flows with 0.55 acre discharging to Lomas Blvd. with 100-year peak flow of 4.55 cfs; 0.51 acre will discharge to the alley at the rear of the property with 100-year peak flow of 4.22 cfs.

The flow capacity of the alley at a minimum 3.60% grade is 11.86 cfs. The peak rate of runoff to the alley is 7.11 cfs.

The capacity of Lomas Blvd. from Nakomis Drive to Chelwood at curb full is 215 cfs. The estimated 100-year peak flow in Lomas at Chelwood is 142.7 cfs. There are ten Double C catch basins along Lomas east of the intersection with Chelwood, with five catch basins on each side of Lomas. The catch basins are spaced about 25 feet apart. The capacity of each catch basin is 16 cfs flowing curb full. The increased flow from this project into Lomas Blvd. will not have any detrimental effect since there is adequate 100-year capacity in Lomas Blvd.

RECOMMENDATION: We recommend the project be constructed with free discharge to Lomas Blvd. and to the alley between Lomas and Roma.

DATE BAUG 86
COMPUTED BY RF3
CHECK BY

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
ANALYSIS POINT # Undeveloped 3 .2 .10 .10	PROJECT LOMAS PLAZA		(t/T _p)	t (min.)	y	(cfs)
ANALYSIS POINT # Undeveloped 3 .2 .10 .10	LOCATION SW. Cor Lomas & Nakomis	1	0_	0	0	0 -
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2			.03	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ANALYSIS POINT # //ndeveloced	3	.2		.10	,
To \nearrow Omio MIN S C C C C C C C C C		4	.3		.190	
To \nearrow Omio MIN S C C C C C C C C C	(DR. AREA) A = 1.06 ACRES	5	.4		.310	
POINT RAINFALL Z.5 IN. FROM PLATE 22.2 D-1 $CN = \frac{79}{7}$ FROM PLATES 22.2 C-2, 22.2 C-3 RUNOFF VOLUME R = 0.85 IN. FROM PLATE 22.2 C-4 $COMPUTED T_p = \frac{10}{7}$ MIN. $Component T_p = T_c$ (Rounded to even minute) $COMPUTED T_p = \frac{10}{7}$ MIN. $Component T_p = T_c$ (Rounded to even minute) $COMPUTED T_p = \frac{10}{7}$ MIN. $Component T_p = T_c$ (Rounded to even minute) $Component T_p = \frac{10}{7}$ MIN. $Component T_p = T_c$ (Rounded to even minute) $Component T_p = \frac{10}{7}$ MIN. $Component T_p = T_c$ (Rounded to even minute) $Component T_p = \frac{10}{7}$ MIN. $Component T_p = T_c$ (Rounded to even minute) $Component T_p = \frac{10}{7}$ MIN. $Component T_p = T_c$ (Rounded to even minute) $Component T_p = \frac{10}{7}$ MIN. $Component T_p = T_c$ (Rounded to even minute) $Component T_p = \frac{10}{7}$ MIN. $Component T_p = T_c$ (Rounded to even minute) $Component T_p = \frac{10}{7}$ MIN. $Component T_p = T_c$ (Rounded to even minute) $Component T_p = \frac{10}{7}$ MIN. $Component T_p = T_c$ (Rounded to even minute) $Component T_p = \frac{10}{7}$ MIN. $Component T_p = T_c$ (Rounded to even minute) $Component T_p = \frac{10}{7}$ MIN. $Component T_p = T_c$ (Rounded to even minute) $Component T_p = \frac{10}{7}$ MIN. $Component T_p = T_c$ MIN.		6	.5		.470	
POINT RAINFALL 25 IN. FROM PLATE 22.2 D-1 9 .8 .930 0 .990	to > 1/2mm MIN	7	.6		.660	
$\begin{array}{c} \text{CN} = \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	'C	8	.7		.820	
$\begin{array}{c} \text{CN} = \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	DOINT DAINEALL 7.5 IN. FROM PLATE 22.2 D-1	9	.8		.930	
RUNOFF VOLUME R = 0.85 IN. FROM PLATE 22.2 C-4 1.3 1.2 9.30 1.4 1.3 860 1.4 1.3 860 1.5 1.4 1.5 1.4 1.5 1.5 1.4 1.5 $1.$		10	.9	•	.990	
RUNOFF VOLUME R = 0.85 IN. FROM PLATE 22.2 C-4 1.3 1.2 9.30 1.4 1.3 860 1.4 1.3 860 1.5 1.4 1.5 1.4 1.5 1.5 1.4 1.5 $1.$	CN - 779 EDOM DIATES 22.2 C-2. 22.2 C-3		-1.0		1.00	_
COMPUTED $T_p = \frac{/O}{R}$ MIN. $T_p = T_c$ Rounded to even minute) $T_p = T_c$ $T_c = \frac{15}{1.4}$ $\frac{1.3}{1.5}$ $\frac{1.5}{1.4}$ $\frac{1.5}{1.5}$	THE PROPERTY OF THE PROPERTY O	12	1.1		.990	
COMPUTED $T_p = \frac{/O}{R}$ MIN. $T_p = T_c$ Rounded to even minute) $T_p = T_c$ $T_c = \frac{15}{1.4}$ $\frac{1.3}{1.5}$ $\frac{1.5}{1.4}$ $\frac{1.5}{1.5}$	SUMPER VOLUME O - ARE IN FROM PLATE 22.2 C-4	13	1.2		.930	
COMPUTED $I_p = \frac{70}{\text{(Rounded to even minute)}}$ (Rounded to even minute) $\frac{16}{19} = \frac{1.5}{1.6} = \frac{.680}{.560}$ $\frac{17}{19} = \frac{1.6}{1.6} = \frac{.560}{.390}$ $\frac{18}{19} = \frac{1.8}{1.8} = \frac{.390}{.330}$ $\frac{20}{1.9} = \frac{.330}{.330}$ $\frac{20}{1.9} = \frac{.330}{.330}$ $\frac{20}{1.9} = \frac{.280}{.207}$ $\frac{21}{2.0} = \frac{.207}{.207}$ $\frac{22}{2.2} = \frac{.207}{.207}$ $\frac{23}{2.4} = \frac{.147}{.147}$ $\frac{24}{2.6} = \frac{.107}{.077}$ $\frac{25}{2.8} = \frac{.077}{.077}$ $\frac{26}{2.9} = \frac{.077}{.096}$ $\frac{26}{2.9} = \frac{.040}{.011}$ $\frac{29}{3.6} = \frac{.021}{.001}$ $\frac{30}{3.8} = \frac{.015}{.001}$	KUNUFF VULUME K - 222 IN. INOM FERTE CETT OF	14	1.3		.860·	
COMPUTED $I_p = \frac{70}{\text{(Rounded to even minute)}}$ (Rounded to even minute) $\frac{16}{19} = \frac{1.5}{1.6} = \frac{.680}{.560}$ $\frac{17}{19} = \frac{1.6}{1.6} = \frac{.560}{.390}$ $\frac{18}{19} = \frac{1.8}{1.8} = \frac{.390}{.330}$ $\frac{20}{1.9} = \frac{.330}{.330}$ $\frac{20}{1.9} = \frac{.330}{.330}$ $\frac{20}{1.9} = \frac{.280}{.207}$ $\frac{21}{2.0} = \frac{.207}{.207}$ $\frac{22}{2.2} = \frac{.207}{.207}$ $\frac{23}{2.4} = \frac{.147}{.147}$ $\frac{24}{2.6} = \frac{.107}{.077}$ $\frac{25}{2.8} = \frac{.077}{.077}$ $\frac{26}{2.9} = \frac{.077}{.096}$ $\frac{26}{2.9} = \frac{.040}{.011}$ $\frac{29}{3.6} = \frac{.021}{.001}$ $\frac{30}{3.8} = \frac{.015}{.001}$	ACHOUTED T - /m MIN T- = T.	15	1.4		.780	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	COMPUTED IP = 10 min. p 'C	16	1.5		.680	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(ROUNGE CO EVEN MINGSE)	17	1.6		.560	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	AS AA = 181 CES./INCH OF RUNOFF	18	1.7		.460	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	qp = 43.47 - 47.67	19	1.8	•	.390	<u></u>
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	' p	20	1.9		.330	
$t(COLUMN) = (t/T_p) \qquad t = T_p(t/T_p)$ $y = Q \qquad Q = y(Q_{peak})$ Q_{peak}	10 Val = 0 ces	21	2.0		.280	<u></u>
$y = \underbrace{Q}_{Qpeak} \qquad Q = y(Q_{peak})$ $\frac{Q}{Qpeak} \qquad Q = y(Q_{peak})$ $\frac{25}{24} \frac{2.6}{2.6} \frac{107}{0.077}$ $\frac{26}{27} \frac{3.2}{3.2} \frac{040}{0.029}$ $\frac{28}{29} \frac{3.6}{3.6} \frac{021}{0.015}$ $\frac{30}{31} \frac{3.8}{4.0} \frac{015}{0.011}$	(K X 4p) - 4peak	22	2.2		.207	<u> </u>
y = 0	+(COLIMAN)-(+/T)	23	2.4		.147	
Qpeak Q = y(y peak)	E(COLUMN)=(C/Ip) C-Ip(C/Ip)	24	1 2.6		1.107	<u> </u>
Qpeak Q = y(y peak)		25	2.8		.077	
Qpeak 28 3.4 .029 .021 .021 .015 .015 .011	$\alpha = \alpha + $	26	3.0		.055	
29 3.6 .021 30 3.8 .015 31 4.0 .011		27	3.2		.040	
30 3.8 .015 31 4.0 .011	Ypeak	28	3.4		.029	
30 3.8 .015 31 4.0 .011	•	29	3.6		.021	
		30	3.8		7 3 3 6	
7 / 1 1/2 / .005		31	4.0		.011	
	7. L. 1 Mallin	32	4.5		.005	

Rationale McHod

Q=CIA C=0.00 i=2.2x2,5=5.5 Q=14x5:5x1.06

PLATE 22.2 F-1

.000

18 Aug 86 CHECK BY

LOMAS PLAZA LOCATION SWOON Lomos & Nakomis NE ANALYSIS POINT # #/ Lomas Block (DR. AREA) A = 0.55 ACRES T_C >/0 MIN POINT RAINFALL 2.5 IN. FROM PLATE 22.2 0-1 - CN = 94 FROM PLATES 22.2 C-2, 22.2 C-3 -RUNOFF VOLUME R = 182 IN. FROM PLATE 22.2 C-4 COMPUTED $T_p = 10$ MIN. $T_p = T_c$ (Rounded to even minute) $q_p = \frac{45.4A}{I_p} = \frac{2.50}{1.50}$ CFS./INCH OF RUNOFF $(R \times q_p) = Q_{peak} = \underline{4.55}$ CFS $t=T_p(t/T_p)$ $t(COLUMN)=(t/T_p)$ $Q = y(Q_{peak})$

	(t/T _p)	t (min.)	y	(cfs)
1	0	0	0	0
2			.03	0.14
3	.2	2	.10	0.46
4	.3	3	.190	0.86
5	.4	4	.310	1.41
6	.5	5	.470	2,14
7	.6	6	.660	3.00
8_	.7	7	.820	3.73
9	.8	·	.930	4.23
10	.9	. 9	.990	4,50
- 11	1.0	10	1.00 -	4,55
12	1.1	//	.990	4,50
13	1.2	12	.930	4.23
14	1.3	13	.860·	3.91
15	1.4	14	.780	3.55
16	1.5	15	.680	3.09
17	1.6	16	.560	2,55
18	.7	17	.460	2.09
19	1.8	[[8]	.390	1.77
20	1.9	19	.330	1.50
21	2.0	20	.280	1.27
22	2.2	22	.207	0.94
23	2.4	74	147	0,67
24	1 2.6	7.6	1.107	0.49
25	2.8	28	.077	0.35
26	3.0	30	.055	0.25
27	3.2	32	.040	0.18
28	3.4	34	.029	0.13
29	3.6	36	.021	0:10
30	3.8	38	.015	0.07
31	4.0	40	.011	0.05
32	4.5	45	.005	0.02
33	5.0	50	.000	0.00

apeak - 4.55 cts

Etionale

i= 2,2x2,5.5,5

 $Q_{100} = CiA$ $Q_{200} = CiA$ $Q_{200} = 0.55$ $Q_{200} = 0.55$ $Q_{200} = 0.55$ $Q_{200} = 0.55$

20

PLATE 22.2 F-1

DATE BAUGES
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PROJECT LOMAS PLAZA		(t/T _p)	t (min.)	y	(cfs)
LOCATION SWCor. Lomos & Nakomis		0	0	0	0
	2	.]		.03	-0.13
ANALYSIS POINT # #2 Alley	3	.2	2	. 10	0.42
	4	.3	3	.190	0.80
(DR. AREA) A = 0.51 ACRES	5	.4	4	.310	1.31
	6	.5	5	.470	1.98
Tc >10mm MIN	7	.6	6	.660	2.79
C	8	.7	7	.820	3,46
POINT RAINFALL Z.5 IN. FROM PLATE 22.2 D-1	9	.8	8	.930	3.92
LATHI WYTH TO THE THE PROPERTY OF THE PARTY	10	.9	9	.990	4.18
CN = 94 FROM PLATES 22-2-C-2, 22.2 C-3	11	-1.0	10	1.00	4.22
LN = 14 - PRUM PLATES 22.2 0-2, 22.2 0	12	1.1	11	.990	4.18
RUNOFF VOLUME R = 1.82 IN. FROM PLATE 22.2 C-4	13	1.2	12	.930	3.92
RUNUFF VULUME K = 100 IN. PROM PLANE 22.2 0 T	14	1.3	13	.860 ⁻	3.63
$T = T_{-}$	15	1.4	11	.780	3,29
COMPUTED $T_p = 10$ MIN. $T_p = T_c$ (Rounded to even minute)	16	1.5	15	.680	2.87
	17	1.6	16	.560	2.36
$q_D = 45.4A = \frac{2.32}{2.32}$ CFS./INCH OF RUNOFF	18	1.7	17	.460	1.94
$q_p = \frac{45.4A}{T_0} = \frac{2.32}{2.32} \text{ CFS./INCH OF RUNOFF}$	19	1.8	18	.390	1.65
1 p	20	1.9	19	.330	1,39
$(R \times G_n) = O_{nor} = 4.22 CFS$	21	2.0	20	.280	1.18
$(R \times q_p) = Q_{peak} = \underline{4.22}$ CFS	22	2.2	22	.207	0.87
$t(COLUMN)=(t/T_p)$ $t=T_p(t/T_p)$	23	2.4	24	.147	0.62
$t(COLUMN)=(t/T_p)$ $t=T_p(t/T_p)$	24	1 2.6	26	.107	0.45
	25	2.8	28	.077	0.32
$\alpha = \alpha + $	26	3.0	30	.055	0.23
$y = Q = y(Q_{peak})$	27	3.2	32	.040	0.17
Qpeak '	28	3.4	34	.029	0.12
•	29	3.6	36	.021	0.09
	30	3.8	18	.015	0.06
	31	4.0	40	.011	0.05
	32	4.5	45	.005	0.02
. Op= 4.22in	33	5.0	50	.000	0.00
			<u> </u>		

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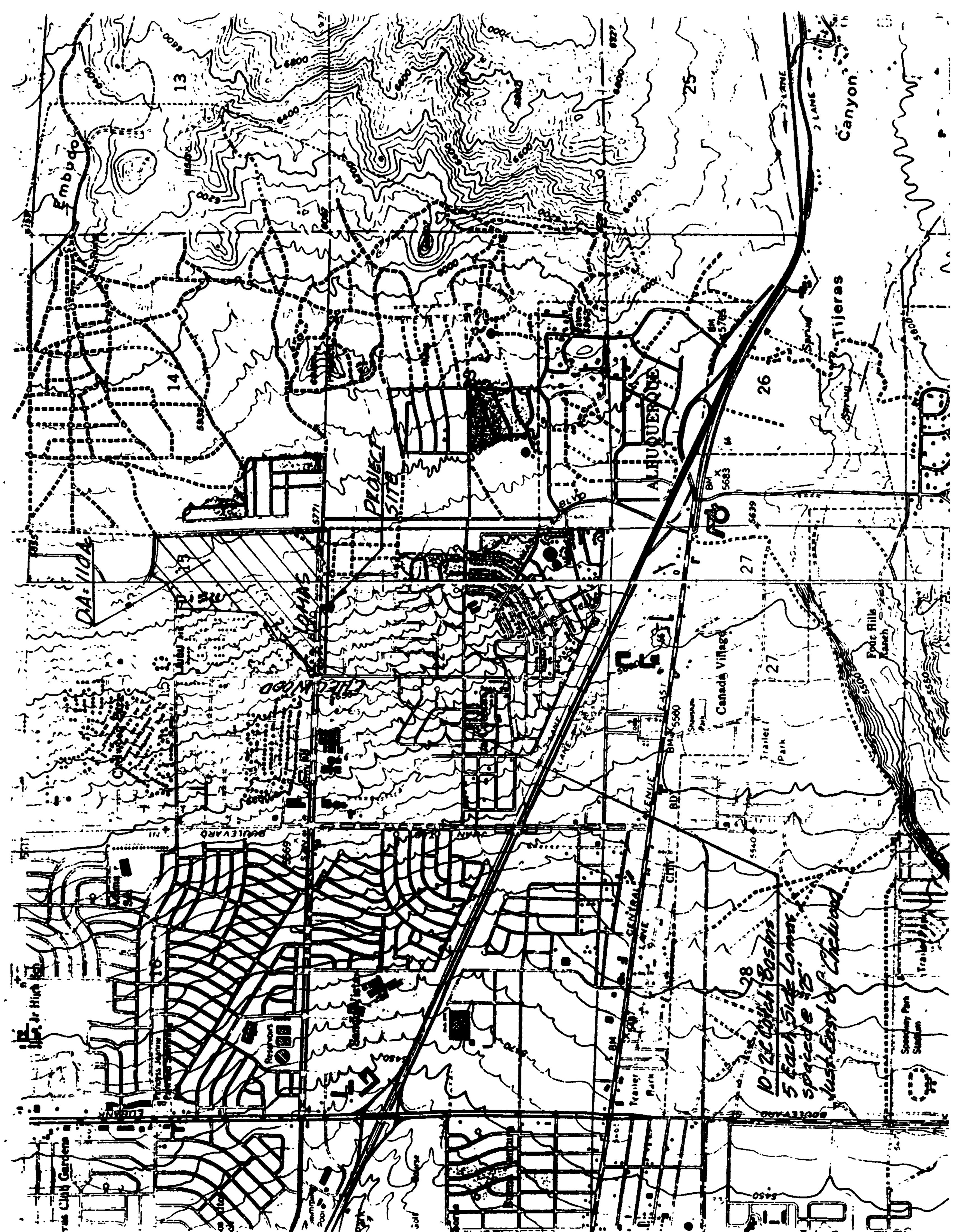
Que CiA

je 2.2x2.5. 5.5

De 0.95x5.5x0.51

= 2.66 is.

PLATE 22.2 F-1



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			7	والمقول والموجود المساوي	
PROJECT LOMAS PLAZA		(t/T _p)	t (min.)	y	
LOCATION Lomas & Chelwood	}	0	0	0	
Community Community	2			.03	
ANALYSIS POINT #	3	.2		.10	
	4	.3		.190	
(DR. AREA) A = //O ACRES	5	.4		.310	
(DK. AKEA) A	6	.5		.470	
To 28' MIN	7	.6		.660	
C	8	.7		.820	
POINT RAINFALL 2.5 IN. FROM PLATE 22.2 D-1	9	.8		.930	
LOTUI KYTHLYEE SAN THE LIGHT COLLEGE STATE	10	.9		.990	
CN = 7.7 FROM PLATES 22.2 C-2, 22.2 C-3		1.0		1.00	
	12 -	11		.990	
RUNOFF VOLUME R = 0.80IN. FROM PLATE 22.2 C-4	13	1.2		.930	
KONOLL AOFOWE K - Digarthe Liver Free C.	14	1.3		.860·	
COMPUTED $T_p = \frac{28}{28}$ MIN. $T_p = T_c$	15	1.4		.780	
(Rounded to even minute)	16	1.5		.680	Г
	17	1.6		.560	
qp = 45.4A = 178.86 CFS./INCH OF RUNOFF	18	1.7		.460	
qp = 73.70 - 770.79 - 1.00.	19	1.8		.390	L
'P	20	1.9		.330	L
$(R \times q_p) = Q_{peak} = 142.7$ CFS	21	2.0		.280	L
(n v up) upeak	22	2.2		.207	L
$t(COLUMN)=(t/T_D)$ $t=T_D(t/T_D)$	23	2.4		.147	L
$t(COLUMN)=(t/T_p)$ $t=T_p(t/T_p)$	24	2.6		.107	L
	25	2.8		.077	<u> </u>
$\alpha = \alpha / \alpha = \omega / \alpha$	26	3.0		.055	
$y = Q - Q = y(Q_{peak}).$	27	3.2		.040	
Qpeak .	28	3.4		.029	
•	29	3.6		.021	
	30	3.8		.015	

comp. ZZ	WILSON	LOC. Albuquegie FILE 86-520
CK.	E COMPANY	PROJ. SHEET SHEET
DATE 18 Aug 86	ARCHITECTS	LOC. Albuquerque FILE 86-520 PROJ. LAMAS PLAZA SHEET SUBJ. Drainage Rept OF
Allay Section		
- i zo	Arco - A - 20	X. 25X /z. + 2.5.37.
8		132 125
	22/3.0.05	
	min sloc:	4-3.60%
	572701	
	17 = 0.015 0 10 = 2 1 v	104 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	2,5 x	15015 X.25 X.19
	9-11.76	
Rent Pin		
Domas	: Arco = 1000 X	120×1/2 138Ac
3	4.3,	
LOMAS		
1000	NA ASSIME L	ammercial Development
20' Allay	CN=0.92	
	7 = 15mi	n Point Rainfall. Z.5"
	Runo FF Vo	1 x 1.38 1.18
		15
	Gp= 411	PX 1.70 = 7/128
	1 Paris D	12/20/11/26
		
		

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CK.		WILSON	LOC. Albuquerque PROJ. Lomas Paza SUBJ. Droinage Rept	FILE 86-520 SHEET
DATE 18 A44 86		ARCHITECTS	SUBJ. Brainage Rept	<u>Of</u>
Alow In	Lomas Blue			
E+67				
AREA TO	-57	(.40)(.5)(22)		
	10.345	7 . 27 = 77.94		
	12/3, = ,59 nm 5/ope = 3	7.20%		
	5/2 -	15 Marin		
) = A	34x 1086 300 - 1000 - 1	7x./8	
100 -12 C	The Both SI	des Strille	1.79x2= 215,58 Nest of May	wood
Slop	- C 2.60% ily 1-ZC	Lakh Basin =	1623 (2016	



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

September 17, 1986

Robert F. Sykes, P.E. Wilson & Company Post Office Box 3548 Albuquerque, New Mexico 87190

> RE: GRADING & DRAINAGE PLAN SUBMITTAL OF LOMAS PLAZA RECEIVED AUGUST 29, 1986 FOR BUILDING PERMIT APPROVAL (K-22/D40)

Dear Robert:

The above referenced submittal, dated August 18, 1986, is approved for Building Permit sign-off by the Hydrology Section provided one of the following options are provided this office:

- 1. A copy of the License Agreement approved by the City allowing the owner to pave the entire remaining unpaved portions of the alley.
- 2. A detailed interim grading plan for the unpaved portions of the alley showing that the amount and velocity of the developed discharge will not cause erosion or damage adjacent private properties. Maintenance responsibilities of any unpaved portions would be that of the owners discharging flows to the alley.

Provide copies of this approved Grading Plan with the construction sets routed for permit sign-off.

If you have any questions, call me at 766-7644.

Cordially,

Roger A. Green, P.E.

C.E./Hydrology Section

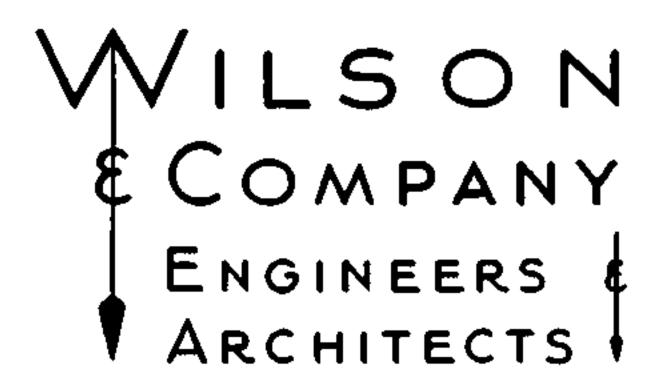
RAG/bsj

PUBLIC WORKS DEPARTMENT

Walter Nickerson, P.E., City Engineer

ENGINEERING GROUP

Telephone (505) 768-2500



505 345-5345

ENGINEERS

ARCHITECTS

PLANNERS

An Equal Opportunity Employer

Mailing Address...P.O. BOX 3548

ALBUQUERQUE, NEW MEXICO 87190

29 August 1986

Mr. Fred Aguirre
Hydrologist
City of Albuquerque
P. O. Box 1293
Albuquerque, NM 87103

AUG ? 9 1986

HYDROLOGY SECTION

Re: Lomas Plaza Drainage Report

WCEA File: 86-520

Dear Mr. Aguirre:

Enclosed is a copy of our Drainage Report for the proposed retail center located at the southwest corner of Lomas Blvd. and Nakomis Drive in the Northeast Heights (K-22).

I will be glad to answer any questions you may have.

Office Location... 6611 GULTON CT., N.E. . ALBUQUERQUE, NEW MEXICO 87109

WILSON & COMPANY

Robert F. Sykes, P.E.

Partner

Enc.

-nab

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Lomas Plaza	ZONE ATLAS/DRNG. FILE #:
LEGAL DESCRIPTION: LOTEF Block ZA, C.	helwood Hark Addn
CITY ADDRESS:	
ENGINEERING FIRM: Wilson & Co	
	7190 PHONE: 345-5345
OWNER: Made & Associates 1009 Peinli ADDRESS: Austin Texas 787	CONTACT: Bob G MADE
ARCHITECT: Wilson & Co	CONTACT: Frank Mackay
ADDRESS: POBOX 3548 AlbiNM 87	7/90 PHONE:
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
	DRB NO. 80.85 613186 EPC NO PROJ. NO DHECK TYPE OF APPROVAL SOUGHT: SKETCH PLAT APPROVAL
DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL SITE DEVELOPMENT PLAN APPROVAL
CONCEPTUAL GRADING & DRAINAGE PLAN	FINAL PLAT APPROVAL
GRADING PLAN	BUILDING PERMIT APPROVAL
ERDSION CONTROL PLAN	FOUNDATION PERMIT APPROVAL
ENGINEER'S CERTIFICATION	CERTIFICATE OF OCCUPANCY AFFROVAL
	ROUGH GRADING PERMIT APPROVAL
	GRADING/PAVING PERMIT APPROVAL
	OTHER (SPECIFY)
DATE SUBMITTED: 29 Aug 86	
That I had	
BY: 100007 1 1905	