JOB NO: DATE: 6 NOVEMBER 1998 REVISIONS

DRAINAGE CALCULATIONS

EXISTING CONDITIONS

The site is located at the NE corner of the intersection of Candelaria Rd. and San Mateo Bivd., N.E. The site is presently developed as an auto service station. The site is presently completely impervious except for planters on the site. The flow in Candelaria Road is from east to west. The flow in San Mateo Blvd. adjacent to the site is from north to south. There is a 42° storm drain line in Candelaria Road. There is an inlet near the ENE curb return of the intersection. The site will drain as it presently does.

PROPOSED CONDITIONS:

It is proposed to construct a new car wash on the site as shown. No other changes to the site are proposed except that landscaping will be added. Any removal and replacement of existing asphalt will be done to match existing grades. There will be a decrease in runoff as a result of the proposed development.

DRAINAGE CRITERIA

The calculations shown on this plan were prepared in accordance with Section 22.2, Hydrology, of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, in cooperation with Bernalillo County, New Mexico and the Albuquerque Metropolitan Arroyo Flood Control Authority, January, 1993.

PRECIPITATION ZONE:

The site is between San Mateo Blvd. and Eubank Blvd. and is, therefore, in Precipitation Zone 3.

LAND TREATMENT AREAS, EXCESS PRECIPITATION AND UNIT PEAK DISCHARGE!

The peak discharge per acre and excess precipitation are shown for the four land treatments in Zone 2 in the table below, and the values shown are from the City of Albuquerque I.P.M. Also shown are the existing and proposed land treatment areas.

LAND	q(cfs		E (1		Existi	ng Site Ar	reas	Devel	oped Site	Areas
TREATMENT	<u> 100-yr.</u>	<u> 10-yr.</u>	100-yr.	10-yr.		Sq. Ft.	ACTES		SGPT	Acres
A	1. 87	0. 58	0. 66	0.19	0. 0	0	0.0000	0. 0	0	0, 0000
В	2. 60	1. 19	0. 92	0. 36	3. 2	1,200	0. 0275	12. 2	4,537	0. 1042
C	3, 45	2. 00	1. 29	0. 62	0. 0	0	0. 0000	0. 0	. 0	0.0000
D	5. 02	3. 39	2. 36	1. 50	96. 8	36, 098	0. 8287	97. 8	32,761	0. 7520
Totals					100. 0	37, 298	0. 8562	100. 0	37,298	0. 8562

PEAK DISCHARGE

EXISTING CONDITIONS

 $Q100 = 0.0275 \times 2.60 + 0.8287 \times 5.02 = 4.23 cfs$ $Q10 = 0.0275 \times 1.19 + 0.8287 \times 3.39 = 2.84 cfs$

DEVELOPED CONDITIONS:

Q100 = 0.1042 * 2.60 + 0.7520 * 5.02 = 4.05 cfs $Q10 = 0.1042 \times 1.19 + 0.7520 \times 3.39 = 2.67 cfs$

VOLUME, 100-YEAR, 6-HOUR

EXISTING CONDITIONS:

 $V100 = (1,200 \times 0.92 + 36,098 \times 2.36) / 12 = 7,191 cf$ $V10 = (1,200 \times 0.36 + 36,088 \times 1.50) / 12 = 4,548 cf$

DEVELOPED CONDITIONS:

 $V100 = (4,537 \times 0.92 + 32,761 \times 2.36) / 12 = 6,791 cf$ V10 = (4,537 * 0.36 + 32,761 * 1.50) / 12 = 4,231 cf

SUMMARY OF ON-SITE VOLUMES AND PEAK DISCHARGE RATES:

	V100(CF)	V10(CF)	Q100(CFS)	Q10(CFS)
EXISTING	7, 191	4, 548	4. 23	2. 84
DEVELOPED	6, 791	4, 231	4, 05	2, 67
DECREASE	400	287	0. 18	0. 17

ANALYSIS OF DOWNSTREAM CAPACITY

SINCE THERE IS A DECREASE IN RUNOFF AS A RESULT OF THE PROPOSED DEVELOPMENT, THERE IS NO REQUIREMENT TO ANALYZE DOWNSTREAM CAPACITY.

ANALYSIS OF OFF-SITE FLOW

THIS SITE HAS NO OFF-SITE FLOW ASSOCIATED WITH IT.

ANALYSIS OF FLOOD ZONE:

THERE IS AN AO-1 (1' DEPTH) FLOOD ZONE IN CANDELARIA ROAD. THE PROPOSED DEVELOPMENT WILL RESULT IN A DECREASE IN RUNDFF FROM THE SITE SO NO ADDITIONAL CONTRIBUTION IS BEING MADE TO

THE FLOOD ZONE. VITH REGARD TO THE REQUIREMENT THAT THE FINISH FLOOR BE 2' ABOVE THE FLOWLINE ON CANDELARIA, THE PROPOSED BUILDING IS NOT INHABITABLE AND IS, THEREFORE, NOT SUBJECT TO THIS REQUIREMENT.



ARVILLA AVENUE, NE

TOC 5209.92 BOC 5209.32

GROUND

NEW HEADER CURB 7 170.30

LANDSCAPE AREA

- NEW HEADER CURB

10' P.U.E

TOC 5209.56 BOC 5208.96

BOC 5208.52

B' SIDEWALK

-

• 🗆

TOC RIM 5207.36 TOC 5208.505207.93 FL 5203.96 BOC 5207.90
BOC 5207.33

TOC 5208.52

BOC 5207.92

520/8.68

TOC 5207.9 BOC 5207.3

5207. BOC

08

岁

RD

BOU (100' R.O.V

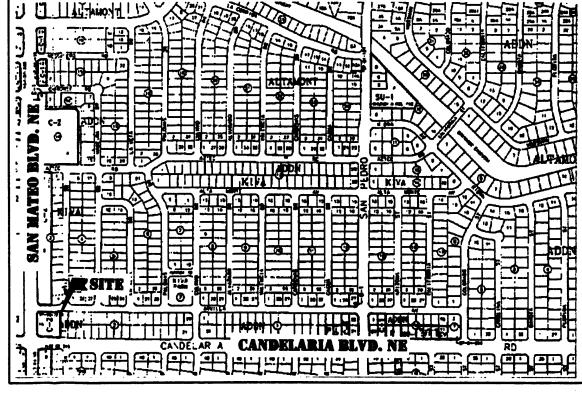
AA

5206.86 BOC

5206.26

TOC 5206.72 BOC 5206.12

CANDELARIA BLVD. NE FIRM MAP MAP NO. 35001C0352 D



VICINITY MAP

FIN. FLR. ELEV. = 5211.36

ZONE ATLAS NO. G - 18 - Z

LEGEND:

SD Storm Drain Catch Basin

Spot elevation TOC=Top of curb BOC=Bottom of curb

FLOW DIRECTION

10.06 ♦ NEW SPOT ELEV.

- DOWNSPOUT EXTENDING THRU CURB
- ☆ AS-CONSTRUCTED ELEVATIONS MARKED THUS.

GENERAL NOTES:

1. No boundary survey was performed.

2. Basis of elevations: NM 367-6, located on the median of San Mateo Boulevard, NE, at the intersection of San Mateo and Arvilla Street, NE. Elevation: 5207.26' MSL NGVD 1929.

The above described property is located within Zone <u>X (no hazard)</u> Community Panel No. <u>350002 0352 D</u>, dated <u>September 20, 1996</u> and is not located within a Special Flood Hazard Boundary indicated by FEMA Flood Insurance Rate Maps. Determination of Flood Hazard is by graphic plotting only.

LEGAL DESCRIPTION

Lot numbered One—A (1—A), Block numbered Two (2), a Replat of the KIVA ADDITION, Albuquerque, Bernalillo County, New Mexico, as the same is shown and designated on the replat thereof, filed in the office of the County Clerk of Bernalillo County, New Mexico, on March 14, 1996, in Volume 96C, folio 119.

ENGINEER'S CERTIFICATION:

HAVING FIELD-INSPECTED THE SITE AND HAVING TAKEN SPOT ELEVATIONS AT CRITICAL LOCATIONS, I HEREBY CERTIFY THAT THE AS CONSTRUCTED FACILITY IS IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN WITH ENGINEER'S STAMP DATED NOVEMBER 20, 1998.

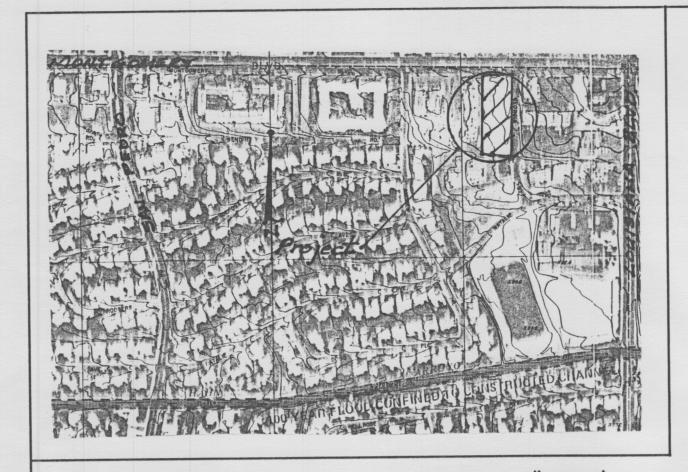
FRANK D. LOVELADY N.M.P.E. 6512

10.22-99

← ROOF SLOPE

OCT 2 2 1999

HYDROLOGY SECTION



FEMA MAP

SCALE: 1"=500' REF. PANEL 352, 1996 REF. PANEL 24, 1983

GRADING & DRAINAGE PLAN

SITE DATA: THE EXISTING SITE IS CURRENTLY A "HARD PAN" DIRT PARKING LOT, AND ZONED. 0-1, FOR OFFICES. THE PROJECT IS LOCATED IN A AN IN-FILL AREA AND ALL ADJACENT PROPERTY IS DEVELOPED. MONTGOMERY BOULEVARD IS LOCATED ON THE NORTH AND IS CLASSIFIED AS AN ARTERIAL WITH CURB/GUTTER AND SIDEWALK. GEORGIA STREET LOCATED ON THE EAST IS A LOCAL STREET WITH CURB AND GUTTER WITHOUT SIDEWALK SITUATED WITHIN A 60' R.O.W. AN EXISTING 20 FEET WIDE PAVED ALLEY IS THE SOUTH ADJOINER.

EXISTING DRAINAGE CONDITIONS: HISTORIC RUN-OFF HAS ESSENTIALLY SHEET FLOWED ACROSS THE SITE WITH A PORTION EXITING TO THE WEST AND THE MAJORITY DRAINING TO THE SOUTH ALLEY. DOWNSTREAM CAPACITY EXISTS VIA THE 20' ALLEY TO THE WEST IN HENDRIX ROAD TO A DROP INLET SYSTEM LOCATED IN MADEIRA DRIVE. (3000' West of Site)

PROPOSED IMPROVEMENTS: CONSIST OF A 123,000 S.F., SINGLE STORY TWO STORY OFFICE BUILDING, ASPHALT PAVING, CURB AND GUTTER, CONCRETE SIDEWALKS, AND THREE (3) ACCESS DRIVEWAY ENTRANCES.

PROPOSED DRAINAGE CONDITIONS: FREE DISCHARGE OF RUN-OFF THROUGH THE TWO PROPOSED WESTERLY ACCESS DRIVEWAYS, THEN SOUTH VIA AN EXISTING ASPHALT DRIVEWAY TO THE 20' ALLEY. UNIT NO. 6 ALTAMONT

CALCULATIONS City Hydrology, Ref. File #G-18/D

I. DESIGN CRITERIA

HYDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY, OF THE DEVELOPMENT PROCESS MANUAL (DPM), REVISED JANUARY 1993 FOR THE CITY OF ALBUQUERQUE AND ADOPTED BY THE COUNTY OF BERNALILLO. DISCHARGE RATE: Q = Qpeak x AREA..."PEAK DISCHARGE RATES FOR SMALL WATERSHEDS" VOLUMETRIC DISCHARGE: VOLUME = Eweighted x AREA SOIL TYPE: 'B', EtC, EMBUDO SERIES, A GRAVELLY FINE SANDY LOAM AS CLASSIFIED BY THE SCS SOIL SURVEY P100 = 2.60 INCHES, ZONE 3 TIME OF CONCENTRATION, TC = 10 MINUTES DESIGN STORM: 100-year/6-hour, 10-year/6-hour WHERE [] = 10 year VALUES

II. EXISTING CONDITIONS (LOT G-2)

PROJECT AREA = 1.28 ACRES, WHERE EXCESS PRECIPITATION 'C' = 1.29 IN. [0.62]
PEAK DISCHARGE, Q100 = 4.4 CFS [2.6], WHERE UNIT PEAK DISCHARGE 'C' = 3.45 CFS/ACRE [2.00]
THEREFORE: VOLUME100 = 5994 C.F. [2881 C.F.]

III. DEVELOPED CONDITIONS

DETERMINE LAND TREATMENTS, PEAK DISCHARGE & WEIGHTED EXCESS PRECIPITATION

			, ,
ARFA	LAND TREATMENT	UNIT PEAK DISCHARGE	,E,
	A	1.87[0.58]	0.66[0
0.09 AC.	В	2.60[1.19]	0.92](
SOIL 0.09 AC.	C		1.29[0
1.10 AC. 1.28 ACRES	D	5.02[3.39]	2.36[1
	AREA - AC. 0.09 AC. SOIL 0.09 AC. 1.10 AC.	- AC. A 0.09 AC. B SOIL 0.09 AC. C 1.10 AC. D	AREA LAND TREATMENT UNIT PEAK DISCHARGE - AC. A 1.87[0.58] 0.09 AC. B 2.60[1.19] SOIL 0.09 AC. C 3.45[2.00] 1.10 AC. D 5.02[3.39]

Eweighted = 2.18 IN. [1.36] Q100 = 6.07 CUBIC FEET PER SECOND (CFS) Q10 = 4.02 CFS; VOL.100 = 10129 CUBIC FEET (CF), VOL.10 = 6319 C.F.

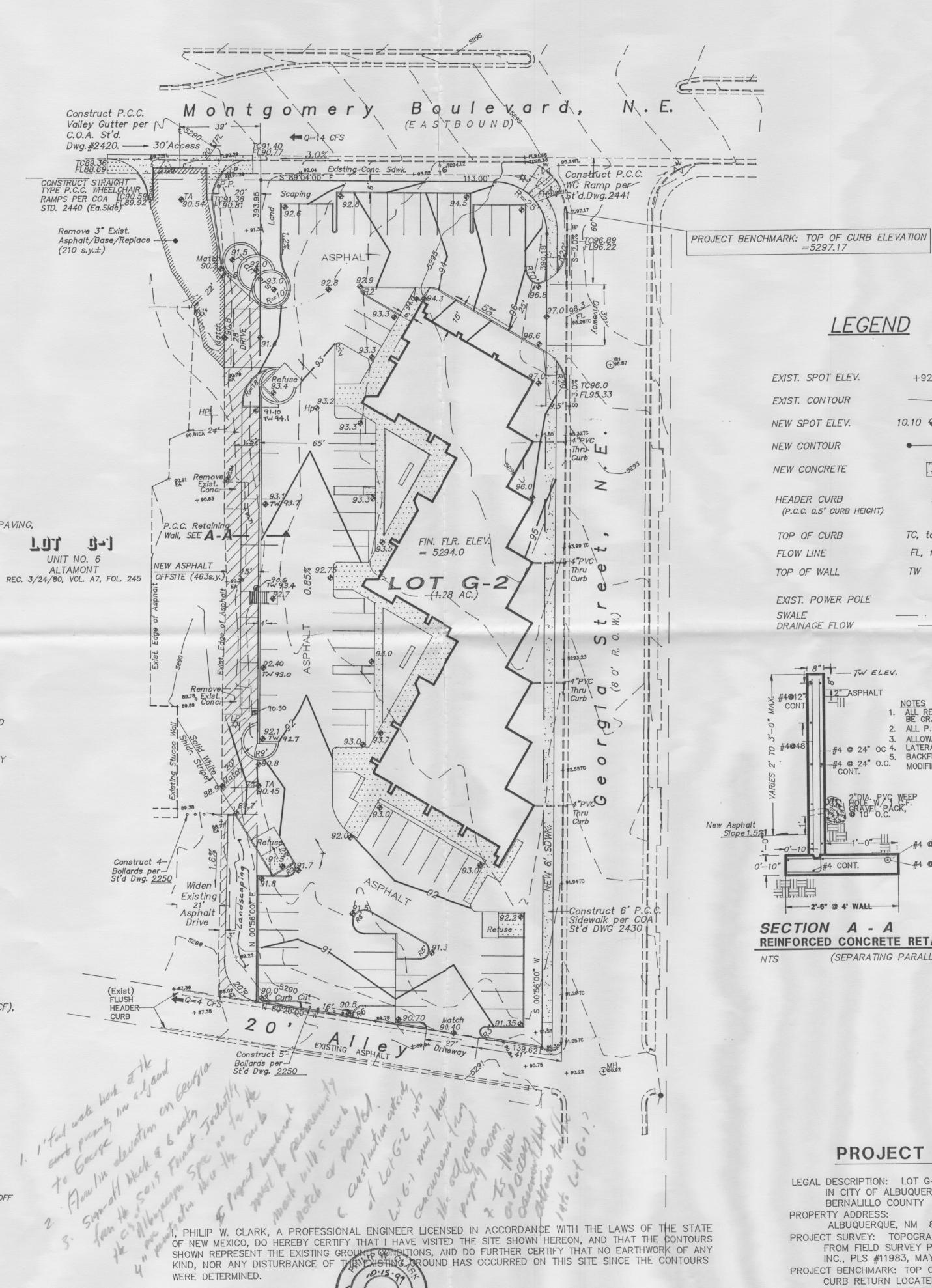
APPROXIMATELY 2 CFS OF DEVELOPED RUN-OFF EXITS TO NW ENTRANCE AND THEN 3 CFS EXITS THE SW ENTRANCE WITH THE REMAINING 1 CFS DISCHARGING TO THE SOUTH

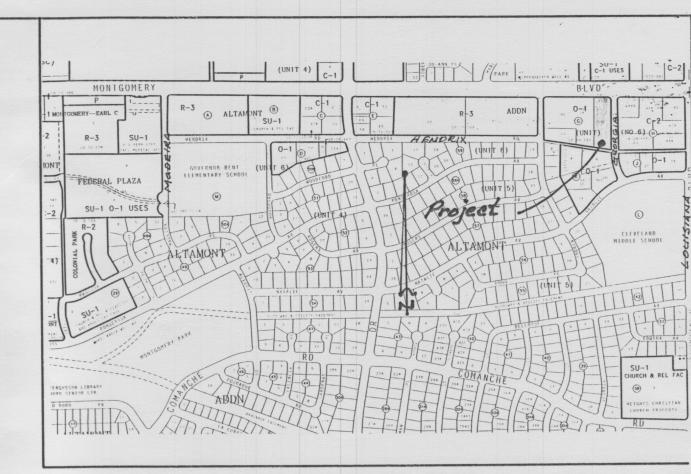
IV. QUANTIFY UP-STREAM RUNOFF IMPACTING THE PROPERTY

@ THE NORTHEAST PROPERTY CORNER (STREET FLOW) AND REFERENCE FEMA MAP, 1" = 500' SINCE MONTGOMERY AND GEORGIA ARE BOTH IMPROVED WITH CURB/GUTTER, NO DRAINAGE IMPACTS THE PROJECT

FOR THE DEVELOPED CONDITION, BASED ON A UNIT DISCHARGE DETERMINED IN III. WHERE: Q100 = 3 Ac. \times 4.5 CFS/AC. = 14 CFS (Total Southside in Street) per DPM PLATE 22.3 D-1, DEPTH = 0.35 FEET @ S= 3%

• GEORGIA AND ALLEY: AN EXISTING HIGH POINT OR 'WATER BLOCK' EXISTS, THEREFORE NO ADDITIONAL RUN-OFF ENTERS FROM THIS INETERSECTION.





VICINITY MAP ZONE G-18

SCALE: 1"=750'

NOTES:

All Work Within the Right-of-Way Shall Be Constructed In Accordance With the City of Albuquerque Standard Specs. For Public Works Construction, Latest Edition.

- 2. ALL WORK PERFORMED ON THIS PROJECT SHALL BE PER-FORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING
- 3. CONTRACTOR SHALL NOTIFY AND COORDINATE ALL CON-FOLLOWING UTILITIES: US WEST COMMUNICATIONS, PUBLIC SERVICE CO. OF NEW MEXICO, AND THE GAS & ELECTRIC SERVICES OF PNM.
- 4. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT
- . TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRAC-TOR MUST CONTACT LINE LOCATING SERVICE, 260-1990, FOR
- 6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAV-ATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 7. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO THE CONSTRUCTION OF PAVING.
- 8. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- 9. TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- 10. THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUC-TION, THE CONTRACTOR SHALL SUBMIT TO THE COORDINATION DIVISION, A DETAILED CONSTRUCTION SCHEDULE REGARDING TRAFFIC CONTROL. TWO (2) WORKING DAYS PRIOR TO CON-STRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM SAME DIVISION. CONTRACTOR SHALL NOTIFY THE BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION, AS PER SECT. 19 OF THE SPECIFICATIONS.
- 11. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED BY CONTRACTOR TO EXISTING LOCATION.

NOTE: ALL DIMENSIONS TO FACE OF CURB UNLESS NOTED OTHERWISE.



SCALE: 1"=30"

PROJECT INFORMATION

LEGAL DESCRIPTION: LOT G-2, UNIT NO. 6, ALTAMONT ADDITION IN CITY OF ALBUQUERQUE, NEW MEXICO BERNALILLO COUNTY

PROPERTY ADDRESS: MONTGOMERY BLVD., NE

=5297.17

EXIST. SPOT ELEV.

EXIST. CONTOUR

NEW SPOT ELEV.

NEW CONTOUR

NEW CONCRETE

HEADER CURB

TOP OF CURB

FLOW LINE

SWALE

Slope 1.5%

TOP OF WALL

EXIST. POWER POLE

2'-6" @ 4' WALL

REINFORCED CONCRETE RETAINING WALL

(SEPARATING PARALLEL PARKING)

SECTION A - A

DRAINAGE FLOW

(P.C.C. 0.5' CURB HEIGHT)

LEGEND

+92.5

10.10

TC, tc

FL, fl

13: 15

P.P. o

ALL REINFORCEMENT SHALL BE GRADE 40

ALLOWABLE BEARING, 1500 PSF

5. BACKFILL COMPACTION TO BE 90%

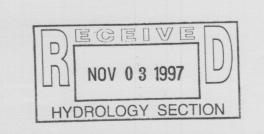
2. ALL P.C.C. 3000 PSI.

#4 @ 24" OC 4. LATERAL PRESS. 40 PSF

#4 @ 24" O.C. MODIFIED PROCTOR

ALBUQUERQUE, NM 87110 PROJECT SURVEY: TOPOGRAPHIC INFORMATION COMPILED FROM FIELD SURVEY PERFORMED BY FRECISION SURVEYS,

INC., PLS #11983, MAY 1997. PROJECT BENCHMARK: TOP OF CURB OF THE SOUTH-SOUTHWEST CURB RETURN LOCATED AT THE INTERSECTION OF GEORGIA STREET AND MONTGOMERY BLVD., AS TIED FROM ACS BRASS CAP MARKED M-3A SET IN CONCRETE POST LOCATED AT LOUISIANA AND MONTGOMERY BLVDS.





DATE REVISION LOT G-2, ALTAMONT ADDITION MOSSMAN ENT. - GEORGIA STREET OFF. Grading & Drainage Plan

DESIGNED BY: PWC DRAWN BY: CCE JOB No: SCHALK_OFF SHEET No. CHECKED BY: PWC DATE: 10/15/97 FILE No: G/D



FEMA MAP

SCALE: 1"=500' REF. PANEL 352, 1996 REF. PANEL 24, 1983

GRADING & DRAINAGE PLAN

SITE DATA: THE EXISTING SITE IS CURRENTLY A "HARD PAN" DIRT PARKING LOT, AND ZONED. 0-1, FOR OFFICES. THE PROJECT IS LOCATED IN A AN IN-FILL AREA AND ALL ADJACENT PROPERTY IS DEVELOPED. MONTGOMERY BOULEVARD IS LOCATED ON THE NORTH AND IS CLASSIFIED AS AN ARTERIAL WITH CURB/GUTTER AND SIDEWALK. GEORGIA STREET LOCATED ON THE EAST IS A LOCAL STREET WITH CURB AND GUTTER WITHOUT SIDEWALK SITUATED WITHIN A 60' R.O.W. AN EXISTING 20 FEET WIDE PAVED ALLEY IS THE SOUTH ADJOINER

EXISTING DRAINAGE CONDITIONS: HISTORIC RUN-OFF HAS ESSENTIALLY SHEET FLOWED ACROSS THE SITE WITH A PORTION EXITING TO THE WEST AND THE MAJORITY DRAINING TO THE SOUTH ALLEY. DOWNSTREAM CAPACITY EXISTS VIA THE 20' ALLEY TO THE WEST IN HENDRIX ROAD TO A DROP INLET SYSTEM LOCATED IN MADEIRA DRIVE. (3000' West of Site)

PROPOSED IMPROVEMENTS: CONSIST OF A 123,000 S.F., SINGLE STORY OFFICE BUILDING, ASPHALT PAVING, CURB AND GUTTER, CONCRETE SIDEWALKS, AND THREE (3) ACCESS DRIVEWAY ENTRANCES.

PROPOSED DRAINAGE CONDITIONS: FREE DISCHARGE OF RUN-OFF THROUGH THE TWO PROPOSED WESTERLY ACCESS DRIVEWAYS, THEN SOUTH VIA AN EXISTING ASPHALT DRIVEWAY TO THE 20' ALLEY.

CALCULATIONS City Hydrology, Ref. File #G-18/D

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II. EXISTING CONDITIONS (LOT G-2)

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PEAK DISCHARGE, Q100 = 4.4 CFS [2.6], WHERE UNIT PEAK DISCHARGE 'C' = 3.45 CFS/ACRE [2.00]
THEREFORE: VOLUME100 = 5994 C.F. [2881 C.F.]

III. DEVELOPED CONDITIONS

DETERMINE LAND TREATMENTS, PEAK DISCHARGE & WEIGHTED EXCESS PRECIPITATION

	AREA_	LAND TREATMENT	UNIT PEAK DISCHARGE	'E'
NDEVELOPED,	AC.	Α	1.87[0.58]	0.66[0.
NDSCAPING,	0.09 AC.	В	2.60 1.19	0.9210.
RAVEL & COMPACTED S	SOIL 0.09 AC.	С	3.45[2.00]	1.29[0.0
OOF/PAVEMENT,	1.10 AC.	D	5.02 [3.39]	2.36[1.
•	1 28 ACRES		,	

Eweighted = 2.18 /N. [1.36]Q100 = 6.07 CUBIC FEET PER SECOND (CFS) Q10 = 4.02 CFS; VOL.100 = 10129 CUBIC FEET (CF), VOL.10 = 6319 C.F.

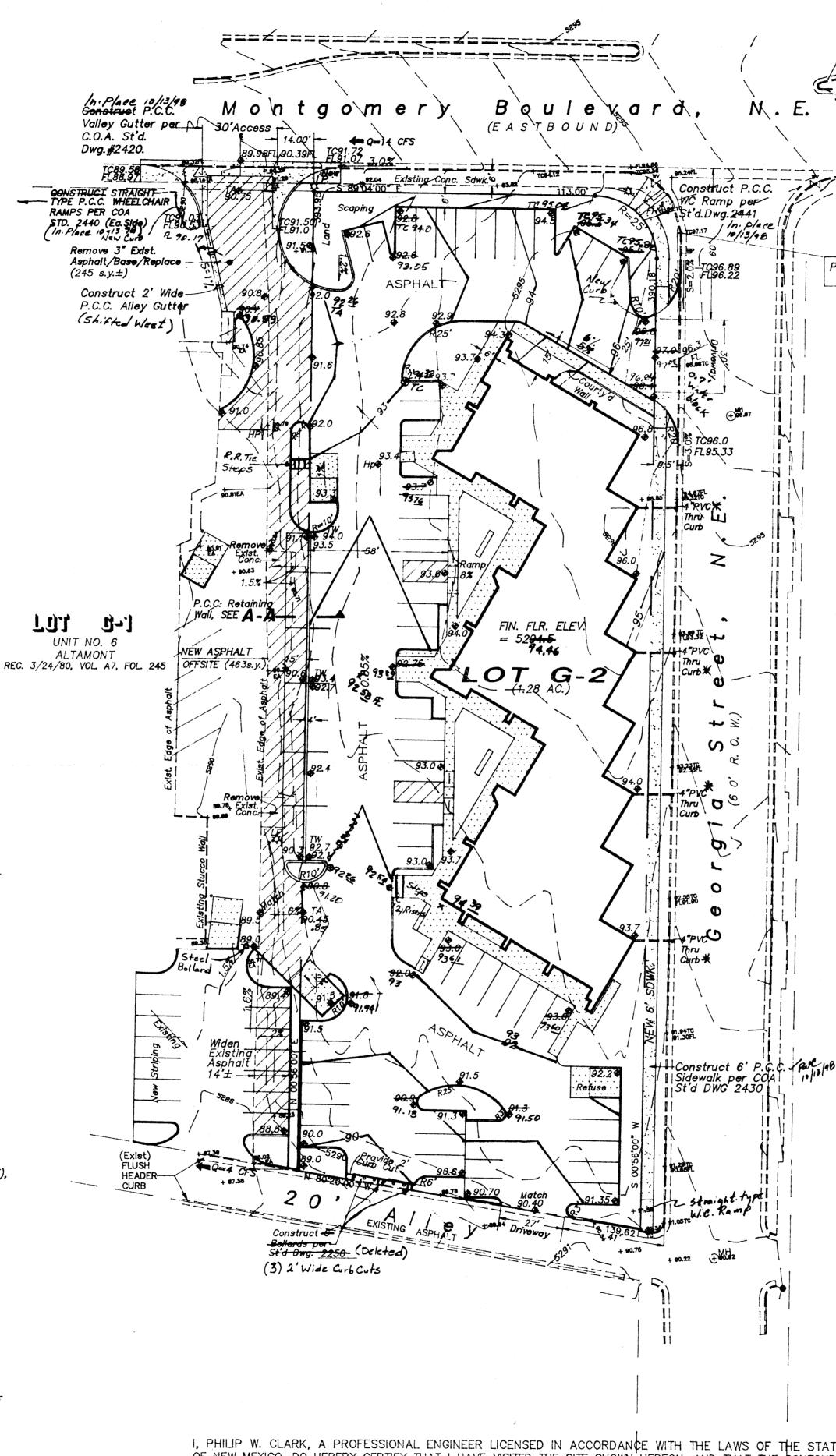
APPROXIMATELY 2 CFS OF DEVELOPED RUN-OFF EXITS TO NW ENTRANCE AND....THEN 3 CFS EXITS THE SW ENTRANCE WITH THE REMAINING 1 CFS DISCHARGING TO THE SOUTH

IV. QUANTIFY UP-STREAM RUNOFF IMPACTING THE PROPERTY

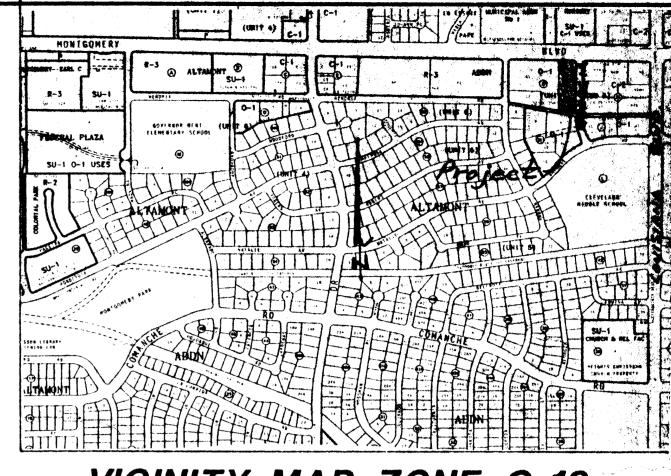
THE NORTHEAST PROPERTY CORNER (STREET FLOW) AND REFERENCE FEMA MAP. 1" = 500' SINCE MONTGOMERY AND GEORGIA ARE BOTH IMPROVED WITH CURB/GUTTER, NO DRAINAGE IMPACTS THE PROJECT

FOR THE DEVELOPED CONDITION, BASED ON A UNIT DISCHARGE DETERMINED IN III. WHERE: Q100 = 3 Ac. \times 4.5 CFS/AC. = 14 CFS (Total Southside in Street) per DPM PLATE 22.3 D−1, DEPTH = 0.35 FEET @ S= 3%

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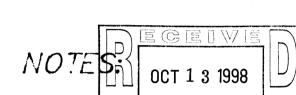


I, PHILIP W. CLARK, A PROFESSIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT I HAVE VISITED THE SITE SHOWN HEREON, AND THAT THE CONTOURS SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND DO FURTHER CERTIFY THAT NO EARTHWORK OF ANY KIND, NOR ANY DISTURBANCE OF THE EXISTING GROUND HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.



VICINITY MAP ZONE G-18

SCALE: 1"=750'



All Work Within the Right—of—Woly \$\$\\$@ L@@\\ru&te@∵|○ In Accordance With the City of Albuquerque Standard Specs. For Public Works Construction, Latest Edition.

BEGINNING ANY WORK WITHIN CITY R.O.W. AN APPROVED COPY OF THIS PLAN MUST BE SUBMITTED AT THE TIME APPLICATION. 2. ALL WORK PERFORMED ON THIS PROJECT SHALL BE PER-FORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING

CONTRACTOR SHALL NOTIFY AND COORDINATE ALL CON-STRUCTION TWO WEEKS PRIOR TO START WITH THE FOLLOWING UTILITIES: US WEST COMMUNICATIONS, PUBLIC SERVICE CO. OF NEW MEXICO, AND THE GAS & ELECTRIC SERVICES OF PNM.

4. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.

CONSTRUCTION SAFETY AND HEALTH.

SCALE: 1"=30'

TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRAC-TOR MUST CONTACT LINE LOCATING SERVICE, 260-1990, FOR

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAV-OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR . THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

7. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO THE CONSTRUCTION OF PAVING.

8. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.

9. TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.

10. THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUC-TION, THE CONTRACTOR SHALL SUBMIT TO THE COORDINATION DIVISION, A DETAILED CONSTRUCTION SCHEDULE REGARDING TRAFFIC CONTROL. TWO (2) WORKING DAYS PRIOR TO CON-STRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM SAME DIVISION. CONTRACTOR SHALL NOTIFY THE BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION, AS PER SECT. 19 OF THE SPECIFICATIONS.

11. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED BY CONTRACTOR TO EXISTING LOCATION.

12. MAINTENANCE OF THE 4" DRAINAGE PVC PIPE WITHIN THE CITY R.O.W. SHALL BE THE RESPONSIBILTY OF THE PROPERTY OWNER.

NOTE: ALL DIMENSIONS TO FACE OF CURB UNLESS NOTED OTHERWISE

Plan 10/18/98	CONSTR. APPROVAL OF	4° PVC	THRU	CURB	W/IN	R.O.W
Pix	CITY HYDROLOGY	i i		Date	•	
	INSPECTOR		ar na hua wa gitin na wa Milia	Date		
	ACE			Date		

CURB PENETRATION PER CITY OF ALBUQ. SPECIFICATIONS. / In. place

PROJECT INFORMATION

LEGAL DESCRIPTION: LOT G-2, UNIT NO. 6, ALTAMONT ADDITION IN CITY OF ALBUQUERQUE, NEW MEXICO

BERNALILLO COUNTY PROPERTY ADDRESS: MONTGOMERY BLVD., NE

ALBUQUERQUE, NM 87110 PROJECT SURVEY: TOPOGRAPHIC INFORMATION COMPILED FROM FIELD SURVEY PERFORMED BY PRECISION SURVEYS,

INC., PLS #11983, MAY 1997. PROJECT BENCHMARK: TOP OF CURB OF THE SOUTH-SOUTHWEST CURB RETURN LOCATED AT THE INTERSECTION OF GEORGIA STREET AND MONTGOMERY BLVD., AS TIED FROM ACS BRASS CAP MARKED M-3A SET IN CONCRETE POST LOCATED AT LOUISIANA AND MONTGOMERY BLVDS.



			CHECT NA
	Owe	Diamaye	Fiail
316.98	Rev. OFF/ON	Drainage	Dian
	Enter + K.F. B.	e Grauling	O?
	Comm'ts	, Grading	2.
1.7.98		MOSSMAN ENT GEO	
4 - 4			
DATE	REVISION	LOT G-2, ALTAMONT A	ADDITION

DESIGNED BY: PWC DRAWN BY: CCE JUB No: SCHALK_UFF CHECKED BY: PVC DATE: 10/15/97 FILE No. G/D

Slope 1.5%1 1-

PROJECT BENCHMARK: TOP OF CURB ELEVATION

EXIST. SPOT ELEV.

EXIST. CONTOUR

NEW SPOT ELEV.

NEW CONTOUR

NEW CONCRETE

TOP OF CURB

FLOW LINE

TOP OF WALL

EXIST. POWER POLE

- 2'-6" @ 4' WALL

COMPLIANCE WITH THE APPROVED PLANT:

PHILIP W. CLARK, P.E. #10265

REINFORCED CONCRETE RETAINING WALL

(SEPARATING PARALLEL PARKING)

I, PHILIP W. CLARK, PROFESSIONAL ENGINEER, REGISTERED IN

ACCORDANCE WITH THE LAWS IN THE STATE OF NEW MEXICO. DO

HEREBY CERTIFY THAT THE GRADING AND DRAINAGE

IMPROVEMENTS SHOWN ON THIS PLAN ARE IN SUBSTANTIAL

SECTION A - A

DRAINAGE FLOW

Median - Type HEADER CURB & Gutter

(P.C.C. 0.5' CURB HEIGHT)

=5297.17

LEGEND

+92.5

P.P. o

2. ALL P.C.C. 3000 PSI.

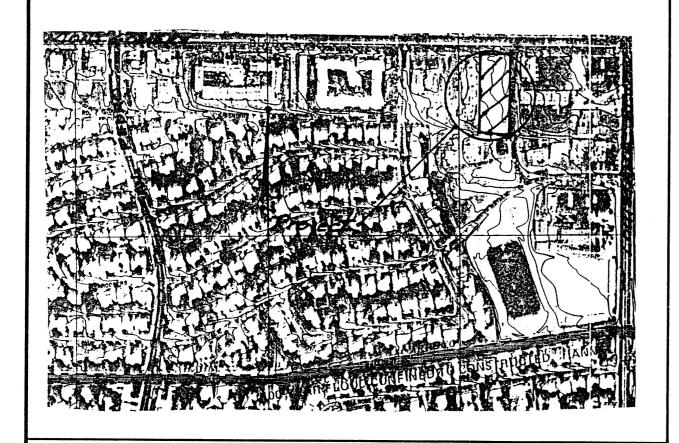
#4 © 24" O.C. BACKFILL COMPACTION TO BE 90%

MODIFIED PROCTOR

#4 0 24" OC 4. LATERAL PRESS. 40 PSF

ALLOWABLE BEARING, 1500 PSF

10.10



FEMA MAP

SCALE: 1"=500' REF. PANEL 352, 1996 REF. PANEL 24, 1983

GRADING & DRAINAGE PLAN

SITE DATA: THE EXISTING SITE IS CURRENTLY A "HARD PAN" DIRT PARKING LOT, AND ZONED. 0-1, FOR OFFICES. THE PROJECT IS LOCATED IN A AN IN-FILL AREA AND ALL ADJACENT PROPERTY IS DEVELOPED. MONTGOMERY BOULEVARD IS LOCATED ON THE NORTH AND IS CLASSIFIED AS AN ARTERIAL WITH CURB/GUTTER AND SIDEWALK. GEORGIA STREET LOCATED ON THE EAST IS A LOCAL STREET WITH CURB AND GUTTER WITHOUT SIDEWALK SITUATED WITHIN A 60' R.O.W. AN EXISTING 20 FEET WIDE PAVED ALLEY IS THE SOUTH ADJOINER.

EXISTING DRAINAGE CONDITIONS: HISTORIC RUN-OFF HAS ESSENTIALLY SHEET FLOWED ACROSS THE SITE WITH A PORTION EXITING TO THE WEST AND THE MAJORITY DRAINING TO THE SOUTH ALLEY. DOWNSTREAM CAPACITY EXISTS VIA THE 20' ALLEY TO THE WEST IN HENDRIX ROAD TO A DROP INLET SYSTEM LOCATED IN MADEIRA DRIVE. (3000' West of Site)

PROPOSED IMPROVEMENTS: CONSIST OF A 123,000 S.F., SINGLE STORY OFFICE BUILDING, ASPHALT PAVING, CURB AND GUTTER, CONCRETE SIDEWALKS, AND THREE (3) ACCESS DRIVEWAY ENTRANCES.

PROPOSED DRAINAGE CONDITIONS: FREE DISCHARGE OF RUN-OFF THROUGH THE TWO PROPOSED WESTERLY ACCESS DRIVEWAYS, THEN SOUTH VIA AN EXISTING ASPHALT DRIVEWAY TO THE 20' ALLEY.

CALCULATIONS

City Hydrology, Ref. File #G-18/D

I. DESIGN CRITERIA

HYDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY, OF THE DEVELOPMENT PROCESS MANUAL (DPM), REVISED JANUARY 1993 FOR THE CITY OF ALBUQUERQUE AND ADOPTED BY THE COUNTY OF BERNALILLO. DISCHARGE RATE: Q = Qpeak x AREA..."PEAK DISCHARGE RATES FOR SMALL WATERSHEDS" VOLUMETRIC DISCHARGE: VOLUME = Eweighted x AREA SOIL TYPE: 'B', EtC, EMBUDO SERIES, A GRAVELLY FINE SANDY LOAM AS CLASSIFIED BY THE SCS SOIL SURVEY P100 = 2.60 INCHES, ZONE 3 TIME OF CONCENTRATION, TC = 10 MINUTES DESIGN STORM: 100-year/6-hour, 10-year/6-hour WHERE [] = 10 year VALUES

II. EXISTING CONDITIONS (LOT G-2)

PROJECT AREA = 1.28 ACRES, WHERE EXCESS PRECIPITATION C' = 1.29 IN. [0.62] PEAK DISCHARGE, Q100 = 4.4 CFS [2.6], WHERE UNIT PEAK DISCHARGE C' = 3.45 CFS/ACRE [2.00] THEREFORE: VOLUME100 = 5994 C.F. [2881 C.F.]

III. DEVELOPED CONDITIONS

DETERMINE LAND TREATMENTS, PEAK DISCHARGE & WEIGHTED EXCESS PRECIPITATION

UNDEVELOPED, LANDSCAPING, GRAVEL & COMPACTED SOIL ROOF/PAVEMENT,	AREA - AC. 0.09 AC. 0.09 AC. 1.10 AC. 1.28 ACRES	LAND TREATMENT A B C D	UNIT PEAK DISCHARGE 1.87[0.58] 2.60[1.19] 3.45[2.00] 5.02[3.39]	<u>'E'</u> 0.66[0.19] 0.92[0.36] 1.29[0.62] 2.36[1.50]

Eweighted = 2.18 IN. [1.36]
Q100 =6.07 CUBIC FEET PER SECOND (CFS) Q10 = 4.02 CFS; VOL.100 = 10129 CUBIC FEET (CF), VOL.10 = 6319 C.F.

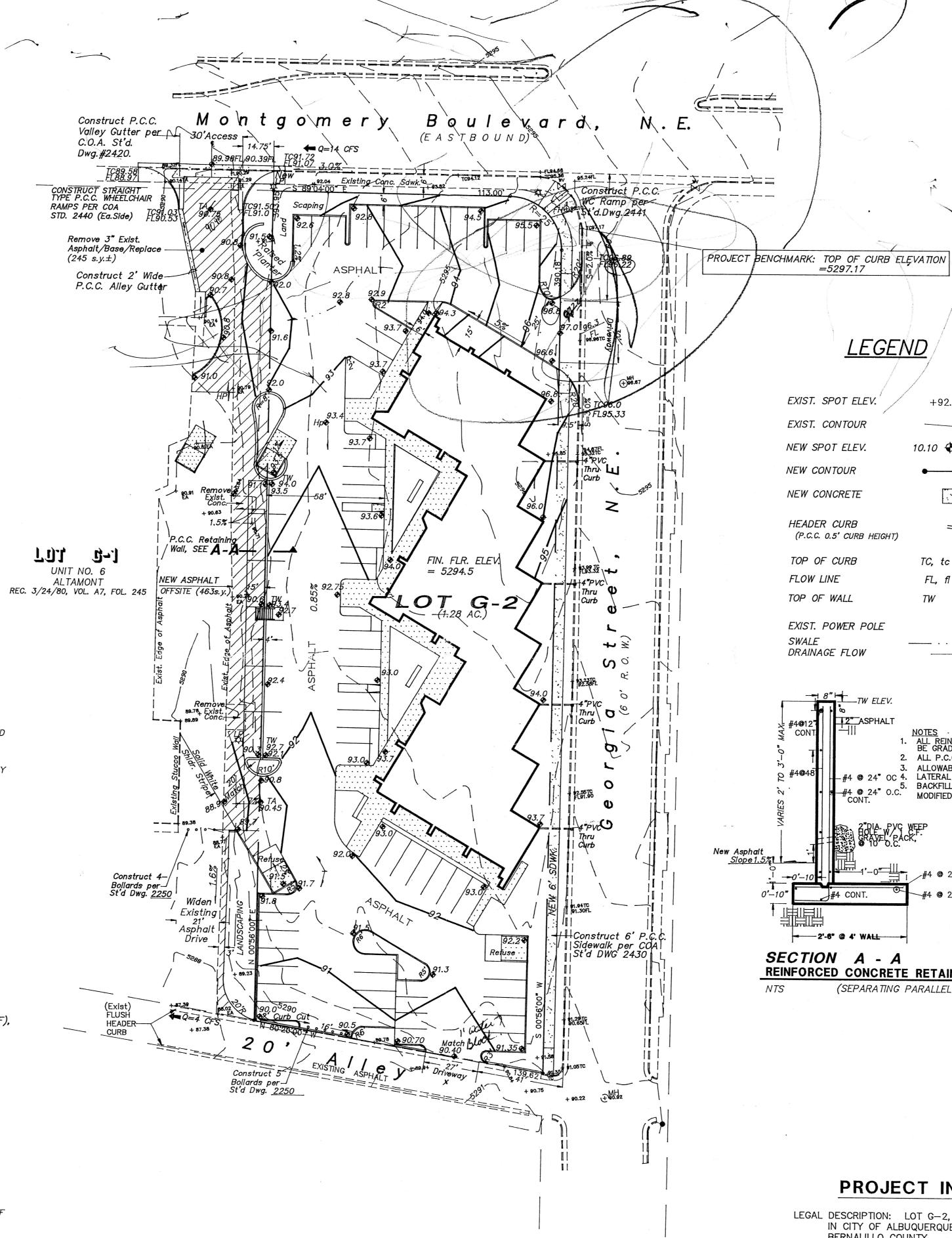
APPROXIMATELY 2 CFS OF DEVELOPED RUN-OFF EXITS TO NW ENTRANCE AND THEN 3 CFS EXITS THE SW ENTRANCE WITH THE REMAINING 1 CFS DISCHARGING TO THE SOUTH

IV. QUANTIFY UP-STREAM RUNOFF IMPACTING THE PROPERTY

@ THE NORTHEAST PROPERTY CORNER (STREET FLOW) AND REFERENCE FEMA MAP, 1" = 500' SINCE MONTGOMERY AND GEORGIA ARE BOTH IMPROVED WITH CURB/GUTTER, NO DRAINAGE IMPACTS THE PROJECT

FOR THE DEVELOPED CONDITION, BASED ON A UNIT DISCHARGE DETERMINED IN III. WHERE: Q100 = 3 Ac. x 4.5 CFS/AC. = 14 CFS (Total Southside in Street) per DPM PLATE 22.3 D-1, DEPTH = 0.35 FEET @ S=3%

● @ GEORGIA AND ALLEY: AN EXISTING HIGH POINT OR 'WATER BLOCK' EXISTS, THEREFORE NO ADDITONAL RUN—OFF ENTERS FROM THIS INETERSECTION.



I, PHILIP W. CLARK, A PROFESSIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT I HAVE VISITED THE SITE SHOWN HEREON, AND THAT THE CONTOURS SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND DO FURTHER CERTIFY THAT NO EARTHWORK OF ANY KIND, NOR ANY DISTURBANCE OF THE ROUND HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.

FROM FIELD SURVEY PERFORMED BY PRECISION SURVEYS, INC., PLS #11983, MAY 1997. PROJECT BENCHMARK: TOP OF CURB OF THE SOUTH-SOUTHWEST CURB RETURN LOCATED AT THE INTERSECTION OF GEORGIA STREET AND MONTGOMERY BLVD., AS TIED FROM ACS BRASS CAP MARKED M-3A SET IN CONCRETE POST LOCATED AT LOUISIANA AND MONTGOMERY BLVDS.

BERNALILLO COUNTY

ALBUQUERQUE, NM 87110

PROPERTY ADDRESS:

PROJECT INFORMATION

LEGAL DESCRIPTION: LOT G-2, UNIT NO. 6, ALTAMONT ADDITION

MONTGOMERY BLVD., NE

IN CITY OF ALBUQUERQUE, NEW MEXICO

PROJECT SURVEY: TOPOGRAPHIC INFORMATION COMPILED

LEGEND

10.10

FL, fl

P.P. °

ALL REINFORCEMENT SHALL BE GRADE 40

ALLOWABLE BEARING, 1500 PSF

5. BACKFILL COMPACTION TO BE 90%

2. ALL P.C.C. 3000 PSI.

MODIFIED PROCTOR

#4 @ 24" OC 4. LATERAL PRESS. 40 PSF

TW

SCALE: 1"=30'

EXIST. SPOT ELEV.

EXIST. CONTOUR

NEW SPOT ELEV.

NEW CONTOUR

NEW CONCRETE

HEADER CURB

TOP OF CURB

FLOW LINE

TOP OF WALL

SWALE

New Asphalt

Slope 1.5%

EXIST. POWER POLE

2'-6" @ 4' WALL

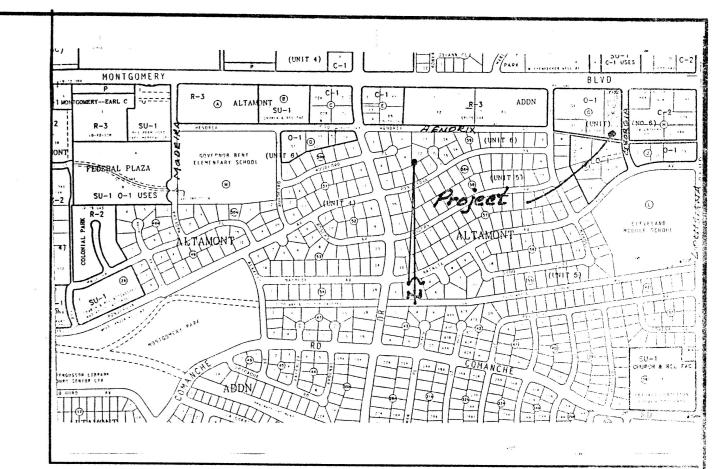
REINFORCED CONCRETE RETAINING WALL

(SEPARATING PARALLEL PARKING)

SECTION A - A

DRAINAGE FLOW

(P.C.C. 0.5' CURB HEIGHT)



VICINITY MAP ZONE G-18

SCALE: 1"=750'

NOTES:

All Work Within the Right-of-Way Shail Be Constructed In Accordance With the City of Albuquerque Standard Specs. For Public Works Construction, Latest Edition.

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY R.O.W. AN APPROVED COPY OF

THIS PLAN MUST BE SUBMITTED AT THE TIME APPLICATION. 2. ALL WORK PERFORMED ON THIS PROJECT SHALL BE PER-FORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING

3. CONTRACTOR SHALL NOTIFY AND COORDINATE ALL CON-STRUCTION TWO WEEKS PRIOR TO START WITH THE FOLLOWING UTILITIES: US WEST COMMUNICATIONS, PUBLIC SERVICE CO. OF NEW MEXICO, AND THE GAS & ELECTRIC

4. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.

CONSTRUCTION SAFETY AND HEALTH.

5. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRAC-TOR MUST CONTACT LINE LOCATING SERVICE. 260-1990. FOR LOCATION OF EXISTING UTILITIES.

6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAV-ATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

7. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO THE CONSTRUCTION OF PAVING.

8. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.

9. TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.

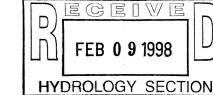
10. THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUC-TION, THE CONTRACTOR SHALL SUBMIT TO THE COORDINATION DIVISION, A DETAILED CONSTRUCTION SCHEDULE REGARDING TRAFFIC CONTROL. TWO (2) WORKING DAYS PRIOR TO CON-STRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM SAME DIVISION. CONTRACTOR SHALL NOTIFY THE BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION, AS PER SECT. 19 OF THE SPECIFICATIONS.

11. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED BY CONTRACTOR TO EXISTING LOCATION.

12. MAINTENANCE OF THE 4" DRAINAGE PVC PIPE WITHIN THE CITY R.O.W. SHALL BE THE RESPONSIBILTY OF THE PROPERTY OWNER.

NOTE: ALL DIMENSIONS TO FACE OF CURB UNLESS NOTED OTHERWISE

ONSTR. APPROVAL OF 4" P	VC THRU CURB 1	W/IN R.O.W
	Date	
CITY HYDROLOGY		
	Date	2"
INSPECTOR	,	
	Date	
ACE		



Clark Consulting Engineers 19 Ryan Road Edgewood, New Mexico 87015

\$ STD. DWG. # 2235.

(505) 281–2444 FAX (505) 281–2444 DATE REVISION LOT G-2, ALTAMONT ADDITION 2.7.98 Addr. Pwp MOSSMAN ENT. - GEORGIA STREET OFF.

Comments
Revise NW
Entr. + RF. GLE

Grading & Drainage Plan DESIGNED BY: PWC DRAWN BY: CCE JOB No. SCHALK_OFF SHEET NO.

CHECKED BY: PWC DATE: 10/15/97 FILE No: G/D

DRAINAGE CALCULATIONS

EXISTING CONDITIONS:

The site is located at the NE corner of the intersection of Candelaria Rd. and San Mateo Blvd., N.E. The site is presently developed as an auto service station. The site is presently completely impervious except for planters on the site. The flow in Candelaria Road is from east to west. The flow in San Mateo Blvd. adjacent to the site is from north to south. There is a 42' storm drain line in Candelaria Road. There is an inlet near the ENE curb return of the intersection. The site will drain as it presently does.

PROPOSED CONDITIONS:

It is proposed to construct a new car wash on the site as shown. No other changes to the site are proposed except that landscaping will be added. Any removal and replacement of existing asphalt will be done to match existing grades. There will be a decrease in runoff as a result of the proposed development.

DRAINAGE CRITERIA:

The calculations shown on this plan were prepared in accordance with Section 22.2, Hydrology, of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, in cooperation with Bernalillo County, New Mexico and the Albuquerque Metropolitan Arroyo Flood Control Authority, January, 1993.

PRECIPITATION ZONE

The site is between San Mateo Blvd. and Eubank Blvd. and is, therefore, in Precipitation Zone 3.

LAND TREATMENT AREAS, EXCESS PRECIPITATION AND UNIT PEAK DISCHARGE:

The peak discharge per acre and excess precipitation are shown for the four land treatments in Zone 2 in the table below, and the values shown are from the City of Albuquerque D. P. M. Also shown are the existing and proposed land treatment areas.

LAND	q(cfs		E (1		Existi	ng Site Ar		Deve	oped Site	
TREATMENT	100-yr.	<u> 10-yr.</u>	100-yr.	<u> 10-yr.</u>	/.	Sq. Ft.	Acres		Sq. Ft.	Acres
Α	1. 87	0. 58	0, 66	0. 19	0. 0	0	0.0000	0. 0	0	0.0000
В	2. 60	1. 19	0. 92	0. 36	3. 2	1,200	0. 0275	12. 2	4,537	0. 1042
С	3, 45	2. 00	1. 29	0. 62	0. 0	0	0. 0000	0. 0	0	0, 0000
D	5. 02	3, 39	2. 36	1. 50	96. 8	36,098	0. 8287	97. 8	32,761	0. 7520
Totals					100. 0	37, 298	0. 8562	100. 0	37, 298	0. 8562

PEAK DISCHARGE:

EXISTING CONDITIONS:

Q100 = 0.0275 * 2.60 + 0.8287* 5.02 = 4.23 cfs Q10 = 0.0275 * 1.19 + 0.8287* 3.39 = 2.84 cfs

DEVELOPED CONDITIONS:

Q100 = 0. 1042 * 2. 60 + 0. 7520* 5. 02 = 4. 05 cfs Q10 = 0. 1042 * 1. 19 + 0. 7520* 3. 39 = 2. 67 cfs

VOLUME, 100-YEAR, 6-HOUR:

EXISTING CONDITIONS:

V100 = (1,200 * 0.92 + 36,098 * 2.36) / 12 = 7,191 cf V10 = (1,200 * 0.36 + 36,088 * 1.50) / 12 = 4,548 cf

DEVELOPED CONDITIONS:

V100 = (4,537 * 0.92 + 32,761 * 2.36) / 12 = 6,791 cf V10 = (4,537 * 0.36 + 32,761 * 1.50) / 12 = 4,231 cf

SUMMARY OF ON-SITE VOLUMES AND PEAK DISCHARGE RATES:

	V100(CF)	V10(CF)	Q100(CFS)	Q10(CFS)	
EXISTING	7, 191	4, 548	4. 23	2. 84	
DEVELOPED	6, 791	4, 231	4. 05	2. 67	
DECREASE	400	287	0. 18	0. 17	

ANALYSIS OF DOWNSTREAM CAPACITY

SINCE THERE IS A DECREASE IN RUNDFF AS A RESULT OF THE PROPOSED DEVELOPMENT,
THERE IS NO REQUIREMENT TO ANALYZE DOWNSTREAM CAPACITY.

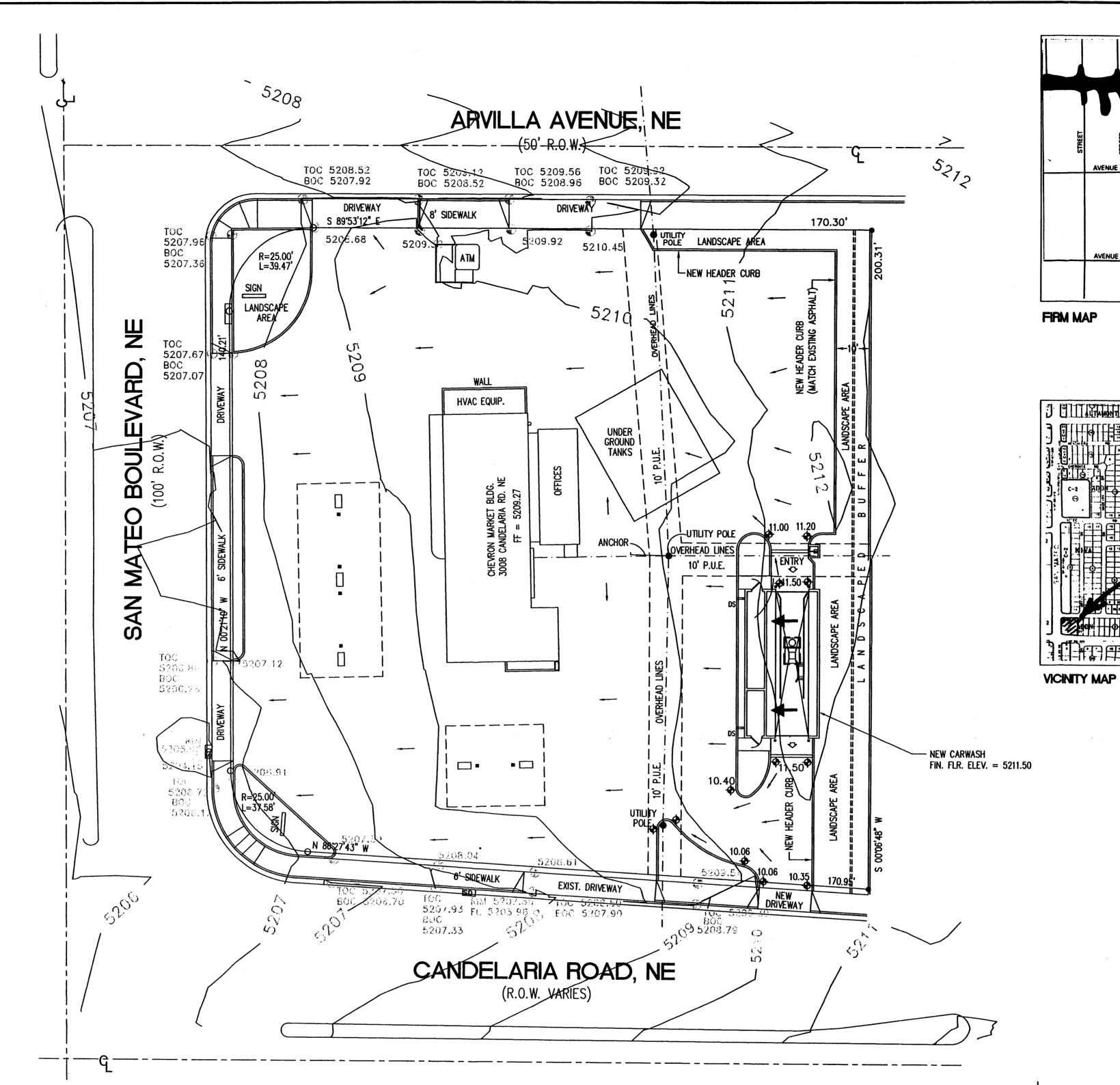
ANALYSIS OF OFF-SITE FLOW:

THIS SITE HAS NO OFF-SITE FLOW ASSOCIATED WITH IT.

ANALYSIS OF FLOOD ZONE:

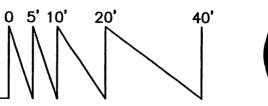
THERE IS AN AO-1 (1' DEPTH) FLOOD ZONE IN CANDELARIA ROAD. THE PROPOSED DEVELOPMENT WILL RESULT IN A DECREASE IN RUNOFF FROM THE SITE SO NO ADDITIONAL CONTRIBUTION IS BEING MADE TO

THE FLOOD ZONE. WITH REGARD TO THE REQUIREMENT THAT THE FINISH FLOOR BE 2' ABOVE THE FLOWLINE ON CANDELARIA, THE PROPOSED BUILDING IS NOT INHABITABLE AND IS, THEREFORE, NOT SUBJECT TO THIS REQUIREMENT.



DRAINAGE PLAN

SCALE: 1'=20'







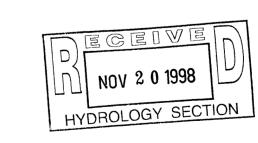
MAP NO. 35001C0352 D

ZONE ATLAS NO. G - 18 - Z

LEGEND:

SD Storm Drain Catch Basin

- Spot elevation
 TOC=Top of curb
 BOC=Bottom of
 curb
- FLOW DIRECTION
- 10.06 ♦ NEW SPOT ELEV.
- DOWNSPOUT EXTENDING THRU CURB
- **←** ROOF SLOPE



GENERAL NOTES:

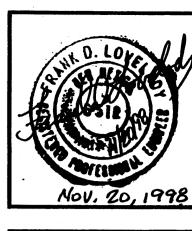
- 1. No boundary survey was performed.
- Basis of elevations: NM 367-6, located on the median of San Mateo Boulevard, NE, at the intersection of San Mateo and Arvilla Street, NE. Elevation: 5207.26' MSL NGVD 1929.

FLOOD NOTE

The above described property is located within Zone X (no hazard) Community Panel No. 350002 0352 D., dated September 20, 1996, and is not located within a Special Flood Hazard Boundary indicated by FEMA Flood Insurance Rate Maps. Determination of Flood Hazard is by graphic plotting only.

LEGAL DESCRIPTION

Lot numbered One—A (1—A), Block numbered Two (2), a Replat of the KIVA ADDITION, Albuquerque, Bernalillo County, New Mexico, as the same is shown and designated on the replat thereof, filed in the office of the County Clerk of Bernalillo County, New Mexico, on March 14, 1996, in Volume 96C, folio 119.



Chevron Automatic Car Wash

KON HOVEY, ARCHITCCI SOSI 254-0083 • FAX 505I 254-1809 • 3808 SIMMS AVE, SE • ALBUQUERQUE, NM • 87108

JOB NO:	9818	
DATE:	5 NOVEMBER 19	 198
	REVISIONS	
	M	
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C-2