

August 5, 1997

Martin J. Chávez, Mayor

Roger Martinez, Jr.
Mark Goodwin & Assoc
P.O. Box 90606
Albuquerque, NM 87199

**RE: GARCIA INFINITI (K19-D116). GRADING AND DRAINAGE PLAN FOR
BUILDING AND SO #19 PERMIT APPROVALS. ENGINEER'S STAMP DATE JULY
26, 1997.**

Dear Mr. Martinez:

Based on the information provided on your June 28, 1997 submittal, the above referenced project is approved for Building and SO #19 Permits.

A separate permit is required for construction within City right-of-way. A copy of this approval letter must be on hand when applying for the excavation permit.

An Engineer's Certification will be required prior to Certificate of Occupancy. Please provide a copy of the City Inspector's "green tag" for the curb penetrations.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,



Lisa Ann Manwill, P.E.
Engineering Assoc./Hyd.

c: Arlene Portillo
Andrew Garcia
File

Good for You, Albuquerque!

P.O. Box 1293, Albuquerque, New Mexico 87103



DRAINAGE INFORMATION SHEET

PROJECT TITLE: Garcia Infiniti ZONE/ATLAS/DRNG, FILE#: K-19Z/bill
DRB#: _____ EPC# _____ WORK ORDER#: _____
LEGAL DESCRIPTION: Lots 17 - 23 of Block B Bosque Redondo Addition
CITY ADDRESS: 8200 Lomas Blvd NE Albuquerque, NM 87110

ENGINEERING FIRM:	<u>Mark Goodwin & Associates, PA</u>	CONTACT:	<u>Roger Martinez, Jr.</u>
ADDRESS:	<u>P.O. Box 90606 Albuquerque, NM 87199</u>	PHONE:	<u>(505) 828-2200</u>
OWNER:	<u>Garcia Infiniti</u>	CONTACT:	<u>Bob Heiser</u>
ADDRESS:	<u>8201 Lomas Blvd NE Albuquerque, NM 87102</u>	PHONE:	<u>(505) 843-9639</u>
ARCHITECT:	<u>DCSW</u>	CONTACT:	<u>Bob Heiser</u>
ADDRESS:	<u>105 4th Street SW Albuquerque, NM 87102</u>	PHONE:	<u>(505) 843-9639</u>
SURVEYOR:	<u>Harris Surveying, Inc.</u>	CONTACT:	<u>Tony Harris</u>
ADDRESS:	<u>2412 Monroe NE Albuquerque, NM 87110</u>	PHONE:	<u>(505) 889-8056</u>
CONTACTOR:	_____	CONTACT:	_____
ADDRESS:	_____	PHONE:	_____

TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT
☒ DRAINAGE PLAN
_____ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN
_____ EROSION CONTROL
_____ ENGINEER'S CERTIFICATION
_____ OTHER

PRE-DESIGN MEETING:

_____ YES
☒ NO
_____ COPY PROVIDED

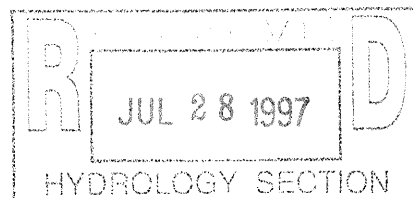
CHECK TYPE OF APPROVAL SOUGHT:

_____ SKETCH PLAT APPROVAL
_____ PRELIMINARY PLAT APPROVAL
_____ S. DEV. PLAN FOR SUB'D APPROVAL
_____ S. DEV. PLAN FOR BLDG PERMIT APPROVAL
_____ SECTOR PLAN APPROVAL
_____ FINAL PLAT APPROVAL
_____ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
_____ CERTIFICATION OF OCCUPANCY APPROVAL
_____ GRADING PERMIT APPROVAL
_____ PAVING PERMIT APPROVAL
_____ S.A.D. DRAINAGE REPORT
_____ DRAINAGE REQUIREMENTS
☒ OTHER SO 19

DATE SUBMITTED: 7/24/97

BY: _____

Roger Martinez, Jr.





SITE

• EXISTING CONDITIONS

AREA = 0.5223 ACRES = 0.0008 SQ. MILES.

SITE CONTAINS AN APPROXIMATE 2300sf BUILDING, PAVED PARKING AREA, AND A 35'x40' LANDSCAPED AREA. THERE ARE 3(THREE) DRIVEWAYS AND ACCESS TO A 20' PAVED ALLEY. THIS SITE DISCHARGES STORM RUNOFF THROUGH THE DRIVEWAYS AND THE ALLEY.

LAND TREATMENTS

TYPE "A" = 0.0%

TYPE "B" = 3.0%

TYPE "C" = 3.0%

TYPE "D" = 94.0%

AHYMO RESULTS

$Q_{PEAK} = 2.53 \text{ cfs}$ $VOLUME_{PEAK} = 0.0973 \text{ ACRE-Feet}$

• PROPOSED CONDITIONS

A = 0.522 ACRES = 0.0008 SQ. MILES

BASIN A, B, & C.

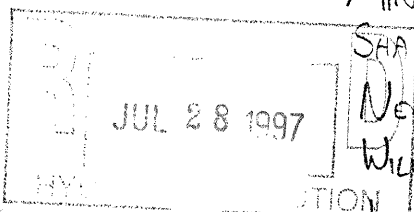
$A_A = 0.2169 \text{ ACRES} = 0.0003 \text{ SQ. MILES}$

$A_B = 0.2169 \text{ ACRES} = 0.0003 \text{ SQ. MILES}$

$A_C = 0.0884 \text{ ACRES} = 0.0002 \text{ SQ. MILES}$

SITE IMPROVEMENTS INCLUDE CURBING, LANDSCAPING, AND MINOR IMPROVEMENTS TO EXISTING PAVEMENT. THE LOMAS DRIVEWAYS SHALL BE CLOSED AND REPLACED WITH A RAISED PLATFORM AND NEW SIDEWALK. DRAINAGE IMPROVEMENTS TO THE CLOSED DRIVEWAYS WILL BE DRAINLINES THROUGH CURB TO ALLOW DISCHARGE TO LOMAS. SEE AHYMO RESULTS FOR AMOUNT OF FLOW. THE EXISTING DRAINAGE PATTERNS SHALL REMAIN INTACT.

CONTINUED ON NEXT PAGE





D. Mark Goodwin & Associates, P.A.
Consulting Engineers and Surveyors

PROJECT GARCIA INFINITI
SUBJECT DRAINAGE
BY RM DATE 24 July 97
CHECKED _____ DATE _____
SHEET 2 OF 2

• PROPOSED CONDITIONS (CONTINUED)

LAND TREATMENTS

BASIN A

TYPE "A" = 0.0%

TYPE "B" = 9.0%

TYPE "C" = 9.0%

TYPE "D" = 82.0%

BASIN B

TYPE "A" = 0.0%

TYPE "B" = 9.0%

TYPE "C" = 9.0%

TYPE "D" = 82.0%

BASIN C

TYPE "A" = 0.0%

TYPE "B" = 1.0%

TYPE "C" = 1.0%

TYPE "D" = 98.0%

AHYMO RESULTS

BASIN A

$Q_{PEAK} = 0.91 \text{ cfs}$

$V_{OL_{PEAK}} = 0.034 \text{ Ac} \cdot \text{Ft}$

BASIN B

$Q_{PEAK} = 0.91 \text{ cfs}$

$V_{OL_{PEAK}} = 0.034 \text{ Ac} \cdot \text{Ft}$

BASIN C

$Q_{PEAK} = 0.65 \text{ cfs}$

$V_{OL_{PEAK}} = 0.0249 \text{ Ac} \cdot \text{Ft}$

START TIME=0.0

***** HYDROGRAPH FOR GARCIA INFINITI
***** SOUTHEAST CORNER OF THE LOMAS AND UTAH INTERSECTION

RAINFALL TYPE=1 RAIN QUARTER=0.0 IN
 RAIN ONE=2.14 IN RAIN SIX=2.60 IN
 RAIN DAY=3.10 IN DT=0.03333 HR

*HYDROGRAPH FOR EXISTING CONDITIONS

COMPUTE NM HYD ID=1 HYD NO=101.1 AREA=0.0008 SQ MI
 PER A=0.0 PER B=3.0 PER C=3.0 PER D=94.0
 TP=0.1333 HR MASS RAINFALL=-1
PRINT HYD ID=1 CODE=1

*HYDROGRAPH FOR PROPOSED CONDITIONS BASIN A

COMPUTE NM HYD ID=2 HYD NO=101.2 AREA=0.0003 SQ MI
 PER A=0.0 PER B=9.0 PER C=9.0 PER D=82.0
 TP=0.1333 HR MASS RAINFALL=-1
PRINT HYD ID=2 CODE=1

*HYDROGRAPH FOR PROPOSED CONDITIONS BASIN B

COMPUTE NM HYD ID=3 HYD NO=101.3 AREA=0.0003 SQ MI
 PER A=0.0 PER B=9.0 PER C=9.0 PER D=82.0
 TP=0.1333 HR MASS RAINFALL=-1
PRINT HYD ID=3 CODE=1

*HYDROGRAPH FOR PROPOSED CONDITIONS BASIN C

COMPUTE NM HYD ID=4 HYD NO=101.4 AREA=0.0002 SQ MI
 PER A=0.0 PER B=1.0 PER C=1.0 PER D=98.0
 TP=0.1333 HR MASS RAINFALL=-1
PRINT HYD ID=4 CODE=1

FINISH

AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
 RUN DATE (MON/DAY/YR) = 07/24/1997
 START TIME (HR:MIN:SEC) = 10:08:53 USER NO. = M_GOODWN.I01
 INPUT FILE = GARCIA.DAT

START TIME=0.0

***** HYDROGRAPH FOR GARCIA INFINITI
***** SOUTHEAST CORNER OF THE LOMAS AND UTAH INTERSECTION

RAINFALL TYPE=1 RAIN QUARTER=0.0 IN
 RAIN ONE=2.14 IN RAIN SIX=2.60 IN
 RAIN DAY=3.10 IN DT=0.03333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2
 PEAK AT 1.40 HR

DT = .033330 HOURS END TIME = 5.999400 HOURS

.0000	.0027	.0055	.0084	.0113	.0143	.0173
.0204	.0236	.0269	.0302	.0337	.0372	.0408
.0445	.0484	.0523	.0564	.0606	.0649	.0694
.0741	.0789	.0839	.0892	.0946	.1003	.1063
.1126	.1192	.1262	.1322	.1385	.1452	.1597
.1922	.2422	.3139	.4119	.5407	.7049	.9093
1.1588	1.3904	1.4871	1.5687	1.6414	1.7074	1.7683
1.8247	1.8775	1.9270	1.9735	2.0174	2.0589	2.0982
2.1354	2.1707	2.2041	2.2359	2.2661	2.2737	2.2807
2.2875	2.2939	2.3001	2.3060	2.3117	2.3172	2.3226
2.3277	2.3328	2.3376	2.3423	2.3470	2.3514	2.3558
2.3601	2.3643	2.3683	2.3723	2.3762	2.3801	2.3838
2.3875	2.3911	2.3947	2.3982	2.4016	2.4050	2.4083
2.4115	2.4147	2.4179	2.4210	2.4241	2.4271	2.4301
2.4330	2.4359	2.4388	2.4416	2.4444	2.4472	2.4499
2.4526	2.4553	2.4579	2.4605	2.4631	2.4656	2.4681
2.4706	2.4731	2.4755	2.4779	2.4803	2.4827	2.4850
2.4873	2.4896	2.4919	2.4942	2.4964	2.4986	2.5008
2.5030	2.5052	2.5073	2.5094	2.5115	2.5136	2.5157
2.5177	2.5198	2.5218	2.5238	2.5258	2.5277	2.5297
2.5317	2.5336	2.5355	2.5374	2.5393	2.5412	2.5430
2.5449	2.5467	2.5486	2.5504	2.5522	2.5540	2.5557
2.5575	2.5593	2.5610	2.5627	2.5645	2.5662	2.5679
2.5696	2.5713	2.5729	2.5746	2.5762	2.5779	2.5795
2.5811	2.5828	2.5844	2.5860	2.5876	2.5891	2.5907
2.5923	2.5938	2.5954	2.5969	2.5984	2.6000	

*HYDROGRAPH FOR EXISTING CONDITIONS

COMPUTE NM HYD ID=1 HYD NO=101.1 AREA=0.0008 SQ MI
 PER A=0.0 PER B=3.0 PER C=3.0 PER D=94.0
 TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000

SHAPE CONSTANT, N = 7.106420

UNIT PEAK = 2.9689 CFS UNIT VOLUME = .9955 B = 526.28 P60 = 2.1400

AREA = .000752 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD

DT = .033330

K = .121284HR TP = .133300HR K/TP RATIO = .909858

SHAPE CONSTANT, N = 3.892621

UNIT PEAK = .12529 CFS UNIT VOLUME = .8940 B = 347.95 P60 = 2.1400

AREA = .000048 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD

DT = .033330

PRINT HYD ID=1 CODE=1 PARTIAL HYDROGRAPH 101.10

RUNOFF VOLUME = 2.27940 INCHES = .0973 ACRE-FEET

PEAK DISCHARGE RATE = 2.53 CFS AT 1.500 HOURS

BASIN AREA = .0008 SQ. MI.

*HYDROGRAPH FOR PROPOSED CONDITIONS BASIN A

COMPUTE NM HYD ID=2 HYD NO=101.2 AREA=0.0003 SQ MI

PER A=0.0 PER B=9.0 PER C=9.0 PER D=82.0

TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000

SHAPE CONSTANT, N = 7.106420

UNIT PEAK = .97122 CFS UNIT VOLUME = .9881 B = 526.28 P60 = 2.1400

AREA = .000246 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD

DT = .033330

K = .121284HR TP = .133300HR K/TP RATIO = .909858

SHAPE CONSTANT, N = 3.892621

UNIT PEAK = .14095 CFS UNIT VOLUME = .9033 B = 347.95 P60 = 2.1400

AREA = .000054 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD

DT = .033330

PRINT HYD ID=2 CODE=1 PARTIAL HYDROGRAPH 101.20

RUNOFF VOLUME = 2.12764 INCHES = .0340 ACRE-FEET

PEAK DISCHARGE RATE = .91 CFS AT 1.500 HOURS

BASIN AREA = .0003 SQ. MI.

*HYDROGRAPH FOR PROPOSED CONDITIONS BASIN B

COMPUTE NM HYD ID=3 HYD NO=101.3 AREA=0.0003 SQ MI

PER A=0.0 PER B=9.0 PER C=9.0 PER D=82.0

TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = .97122 CFS UNIT VOLUME = .9881 B = 526.28 P60 = 2.1400
AREA = .000246 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD
DT = .033330

K = .121284HR TP = .133300HR K/TP RATIO = .909858
SHAPE CONSTANT, N = 3.892621
UNIT PEAK = .14095 CFS UNIT VOLUME = .9033 B = 347.95 P60 = 2.1400
AREA = .000054 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD
DT = .033330

PRINT HYD ID=3 CODE=1 PARTIAL HYDROGRAPH 101.30
RUNOFF VOLUME = 2.12764 INCHES = .0340 ACRE-FEET
PEAK DISCHARGE RATE = .91 CFS AT 1.500 HOURS
BASIN AREA = .0003 SQ. MI.

*HYDROGRAPH FOR PROPOSED CONDITIONS BASIN C
COMPUTE NM HYD ID=4 HYD NO=101.4 AREA=0.0002 SQ MI
PER A=0.0 PER B=1.0 PER C=1.0 PER D=98.0
TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = .77382 CFS UNIT VOLUME = .9840 B = 526.28 P60 = 2.1400
AREA = .000196 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD
DT = .033330

K = .121284HR TP = .133300HR K/TP RATIO = .909858
SHAPE CONSTANT, N = 3.892621
UNIT PEAK = .10441E-01CFS UNIT VOLUME = .8726 B = 347.95 P60 = 2.1400
AREA = .000004 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD
DT = .033330

PRINT HYD ID=4 CODE=1 PARTIAL HYDROGRAPH 101.40

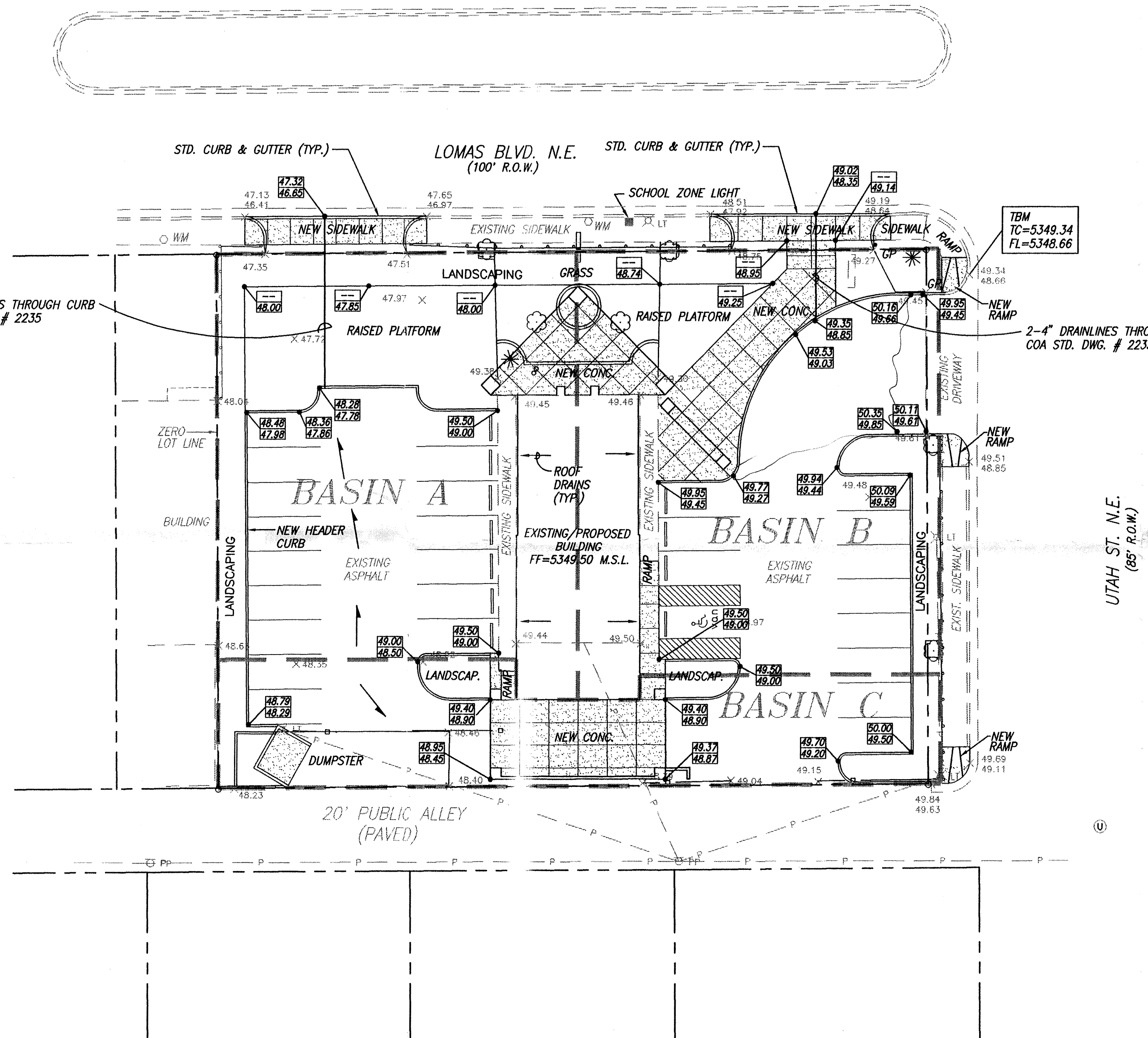
RUNOFF VOLUME = 2.32998 INCHES = .0249 ACRE-FEET

PEAK DISCHARGE RATE = .65 CFS AT 1.500 HOURS

BASIN AREA = .0002 SQ. MI.

FINISH

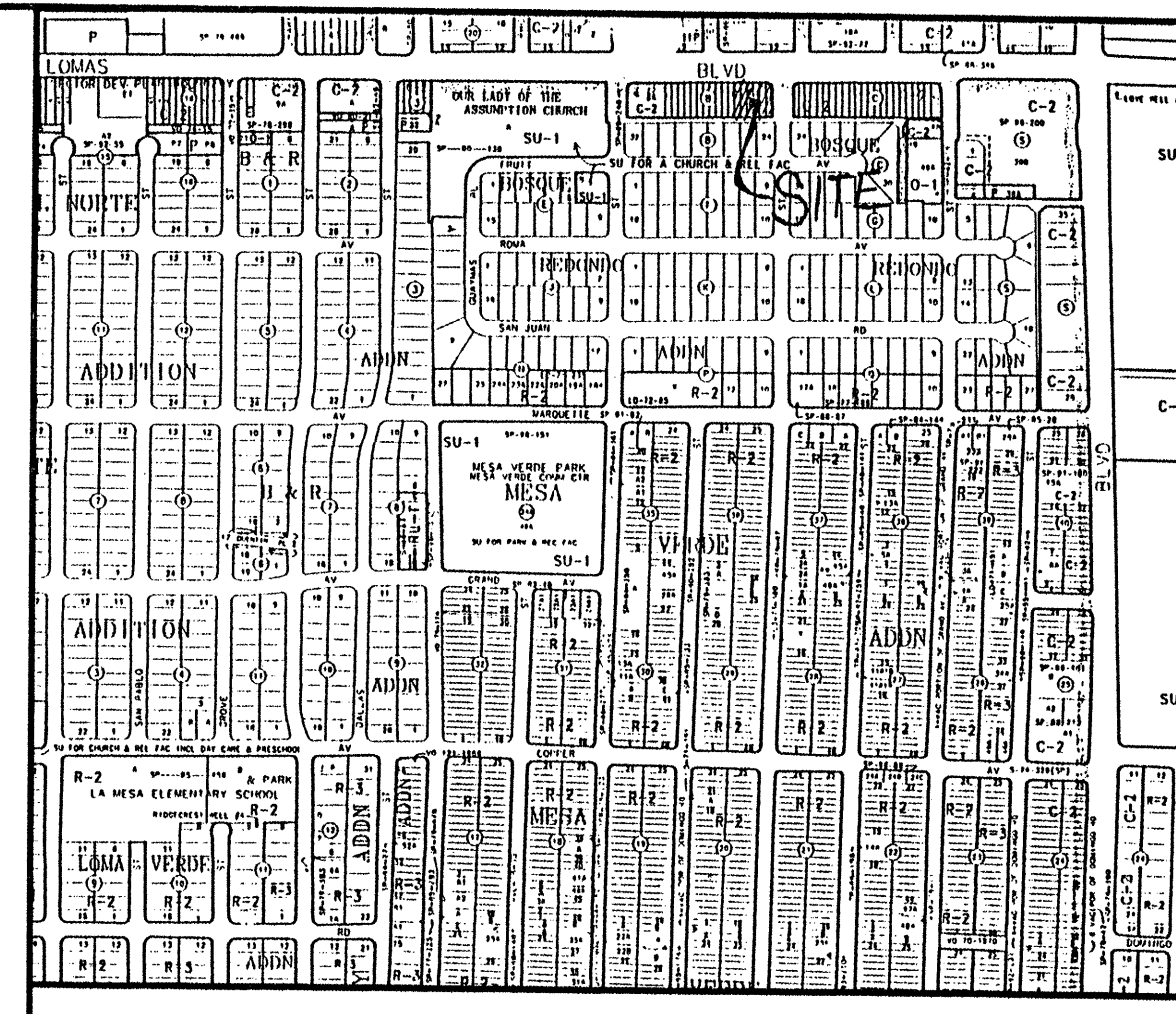
NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 10:08:55



- NOTICE TO CONTRACTOR
1. An excavation/construction permit will be required before beginning any work within City 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 "City of Albuquerque Standard Specifications for Public Works Construction" (1986 Edition).
 3. Two working days prior to any excavation, Contractor must contact the Line Locating Service, 765-1234, 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 of delay.
 5. Backfill compaction shall be according to residential street use.
 6. Maintenance of these facilities shall be the responsibility of the Owner of the property served.
 7. Contractor is responsible for obtaining excavation permit for the S.O. 19 and providing proof of acceptance by the City prior to Hydrology sign-off for Certificate of Occupancy.

DRAINAGE FACILITIES WITHIN CITY RIGHT OF WAY

Design Approval	HYDROLOGY SECTION	DATE
Inspection Approval	CONSTRUCTION SECTION	DATE
Acceptance	CONSTRUCTION/SECTION/PERMITS	DATE



VICINITY MAP ZONE MAP: K-19-Z

TBM (TEMPORARY BENCHMARK)
TOP OF CURB AT THE NORTHWEST CURB RETURN OF LOMAS BLVD AND UTAH ST.
TC = 5349.34

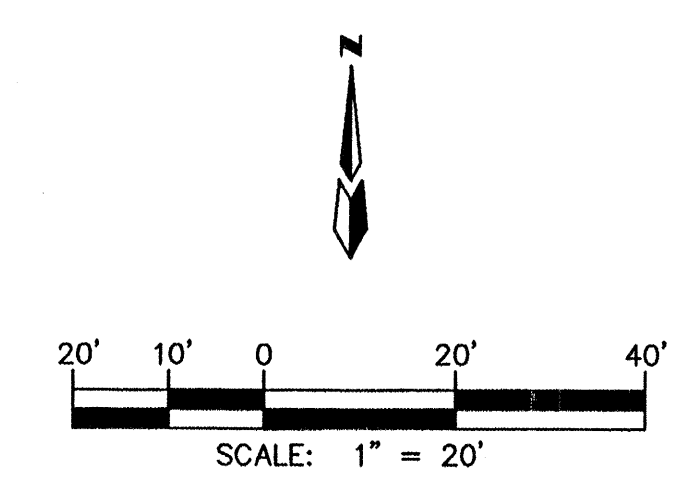
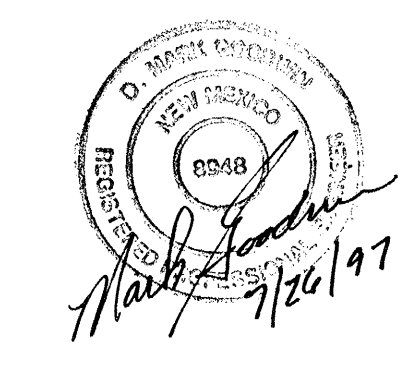
ACS BENCHMARK
STATION IS LOCATED 5.6 MILES EAST OF DOWNTOWN ALBUQUERQUE, AT THE INTERSECTION OF LOMAS BLVD. AND WYOMING BLVD., AT THE NW QUADRANT OF THE INTERSECTION.
STATION IS 43.3 FT. WEST OF CENTERLINE ON WYOMING BLVD. AND 51.8 FT. NORTH OF CENTERLINE ON LOMAS BLVD.
STATION IS AN OLD ACS BRASS DISK 1.5 IN. IN DIAMETER, SET IN A DRILLED HOLE ON THE CURB, AND STAMPED "4-J19, 1975, ASC".
X=410,199.109 Y=1,487,215.768 Z=5362.150

LEGAL DESCRIPTION
LOTS 17 THRU 23, BLOCK B, BOSQUE REDONDO ADDITION.

PROJECT DESCRIPTION
1. THE PROJECT ENTAILS CONSTRUCTION OF LANDSCAPING AND PARKING LOT IMPROVEMENTS. THE PREVIOUS MENTIONED IMPROVEMENTS WILL NOT INCREASE BUT DECREASE THE EXISTING RUNOFF LEVELS. THE EASTERN IMPROVEMENTS WILL REQUIRE ADDITIONAL PAVEMENT REMOVAL FOR DRAINAGE. ALL OTHER EXISTING FLOW PATTERNS SHALL REMAIN INTACT. THE TWO LOMAS DRIVEWAYS SHALL BE CLOSED AND THE DRIVEWAY ON UTAH SHALL REMAIN OPEN.
2. CONTRACTOR SHALL RAISE, LOWER OR RELOCATE ANY UTILITIES AS NECESSARY.
3. THE CONTRACTOR SHALL SAWCUT ASPHALT FOR REMOVAL AND MATCH EXISTING GRADE AT SAWCUT. HEADER CURB SHALL BE INSTALLED PROTRUDING 6" FROM EXISTING TOP OF ASPHALT.
4. SITE DOES NOT LIE WITHIN A 100 YEAR FLOOD PLAIN.
5. OFF-SITE FLOWS DO NOT IMPACT SITE.

LEGEND
PROPOSED TOP OF CURB AND FLOWLINE SPOT ELEVATION
PROPOSED FLOWLINE SPOT ELEVATION
EXISTING SPOT ELEVATION
EXISTING TOP OF CURB AND FLOWLINE ELEVATION
EXISTING CURB
PROPOSED CURB
FF=5349.50 M.S.L. PROPOSED FINISH FLOOR ELEVATION
DRAINAGE BASIN

JUL 28 1997
HYDROLOGY SECTION



GARCIA INFINITI
GRADING & DRAINAGE PLAN

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

Designed: RMJ	Drawn: FSM, WLV	Checked: DMG	Sheet 1 of 1
Scale: 1" = 20'	Date: 06-27-97	Job: 97080	