

#### Location

The site is a 2.53 acres site which is located at northeast corner of Beach Road and Albuquerque Riverside Drain. See attached vicinity map for location.

#### Purpose

The purpose of this report is to present a grading and drainage solution for the proposed house.

#### Existing Drainage Conditions

The site is fairly flat. The runoff at existing runoff conditions (3.96 cfs) ponds on site. There are no offsite runoff that enter this site. The entire site falls within a 500-year flood plain. Small portion of the site falls within a 100-year flood plain, Zone AO (1' depth). See attached FIRM Map 35001C0331 D for the location of the site.

#### Proposed Conditions and On-Site Drainage Management Plan

The site will be graded so all the runoff will pond on site. The house pad will be placed outside the 100-year (Zone AO) limits. The existing ground elevations inside the Zone AO is 4961.30'. The house pad will be placed two feet (4963.30') above this elevation. The pond provided has a volume of 10,006.34 cf which is greater than required volume of 9,981.60 cf. See this sheet for volume calculations. The runoff was calculated using the 100-year, 24-hour storm. See this grading plan for AHYMO input and summary output file and ponding location.

#### Calculations

City of Albuquerque, Development Process Manual, Section 22.2, Hydrology Section, revised January, 1993, was used for the runoff calculations. A treatment of D=100% was used for on site existing conditions. A treatment of D=13% C=13%, B=24% and A=50% was used for proposed conditions. The site falls under Zone 2 based on Figure A-1 of page A-1.

#### AHYMO INPUT FILE

\* ZONE 2  
\* (100-YEAR, 24 HOUR, UNDER EXISTING CONDITIONS)  
START TIME=0.0  
RAINFALL TYPE=2 RAIN QUARTER=0.0 IN  
RAIN ONE=2.01 IN RAIN SIX=2.35 IN  
RAIN DAY=2.75 IN DT=0.03333 HR  
COMPUTE NM HYD ID=1 HYD NO=101.0 AREA=0.003968 SQ MI  
PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00  
TP=0.1333 HR MASS RAINFALL=-1  
\* (100-YEAR, 24 HOUR, UNDER PROPOSED CONDITIONS)  
COMPUTE NM HYD ID=1 HYD NO=102.0 AREA=0.003968 SQ MI  
PER A=50.00 PER B=24.00 PER C=13.00 PER D=13.00  
TP=0.1333 HR MASS RAINFALL=-1  
\* (10-YEAR, 24 HOUR, UNDER EXISTING CONDITIONS)  
START TIME=0.0  
RAINFALL TYPE=2 RAIN QUARTER=0.0 IN  
RAIN ONE=1.34 IN RAIN SIX=1.57 IN  
RAIN DAY=1.83 IN DT=0.03333 HR  
COMPUTE NM HYD ID=1 HYD NO=111.0 AREA=0.003968 SQ MI  
PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00  
TP=0.1333 HR MASS RAINFALL=-1  
\* (10-YEAR, 24 HOUR, UNDER PROPOSED CONDITIONS)  
COMPUTE NM HYD ID=1 HYD NO=112.0 AREA=0.003968 SQ MI  
PER A=50.00 PER B=24.00 PER C=13.00 PER D=13.00  
TP=0.1333 HR MASS RAINFALL=-1  
FINISH

#### AHYMO SUMMARY OUTPUT FILE

AHYMO SUMMARY TABLE (AHYMO194)-AMAFCA Hydrologic Model-January,1994 RUN DATE (MON/DAY/YR) =09/07/1998  
INPUT FILE = 9817  
FROM TO  
HYDROGRAPH ID ID AREA PEAK RUNOFF TIME TO CFS  
COMMAND IDENTIFICATION NO. NO. (SQ MI) (CFS) VOLUME RUNOFF PEAK PER NOTATION  
START TIME= .00  
RAINFALL TYPE= 2  
COMPUTE NM HYD 101.00 - 1 0.00397 3.96 0.112 0.53121 1.533 1.559 PER IMP= .00  
COMPUTE NM HYD 102.00 - 1 0.00397 5.83 0.198 0.89492 1.500 2.294 PER IMP= 13.00  
START TIME= .00  
RAINFALL TYPE= 2  
COMPUTE NM HYD 111.00 - 1 0.00397 1.43 0.040 0.18834 1.533 0.562 PER IMP= .00  
COMPUTE NM HYD 112.00 - 1 0.00397 3.01 0.100 0.47208 1.533 1.185 PER IMP= 13.00  
FINISH

*Pond  
Current  
required?*  
*Note: reseed  
all graded  
area?*

#### LEGEND

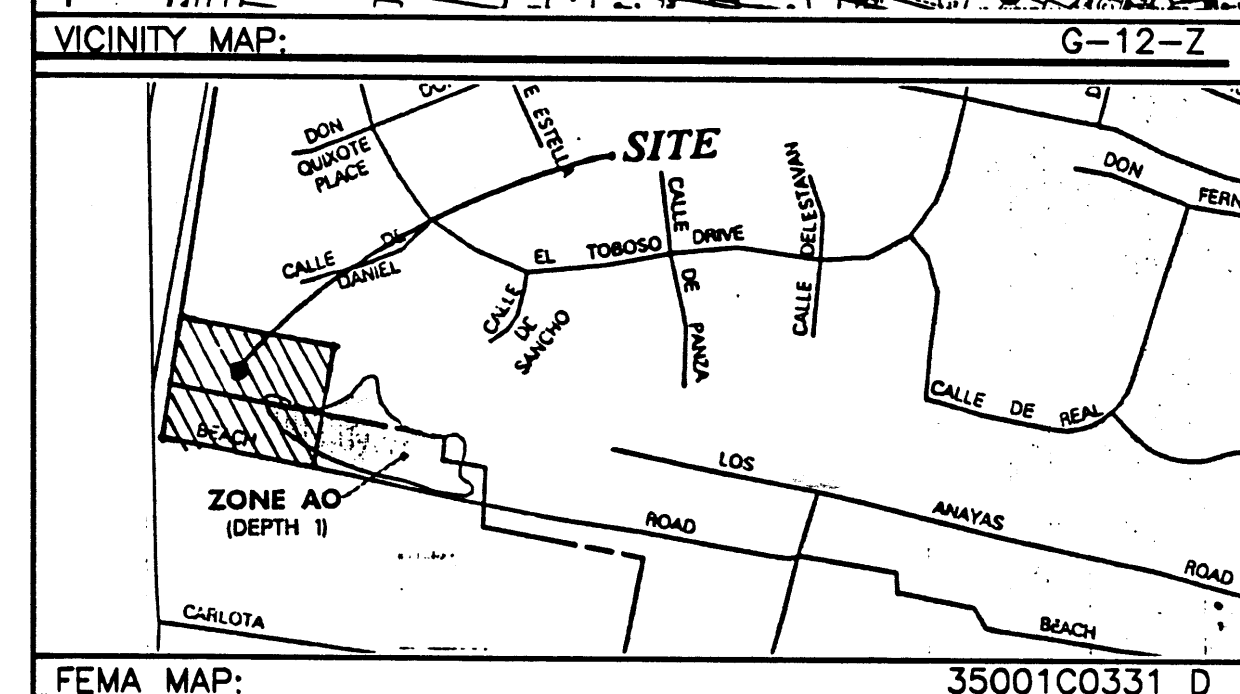
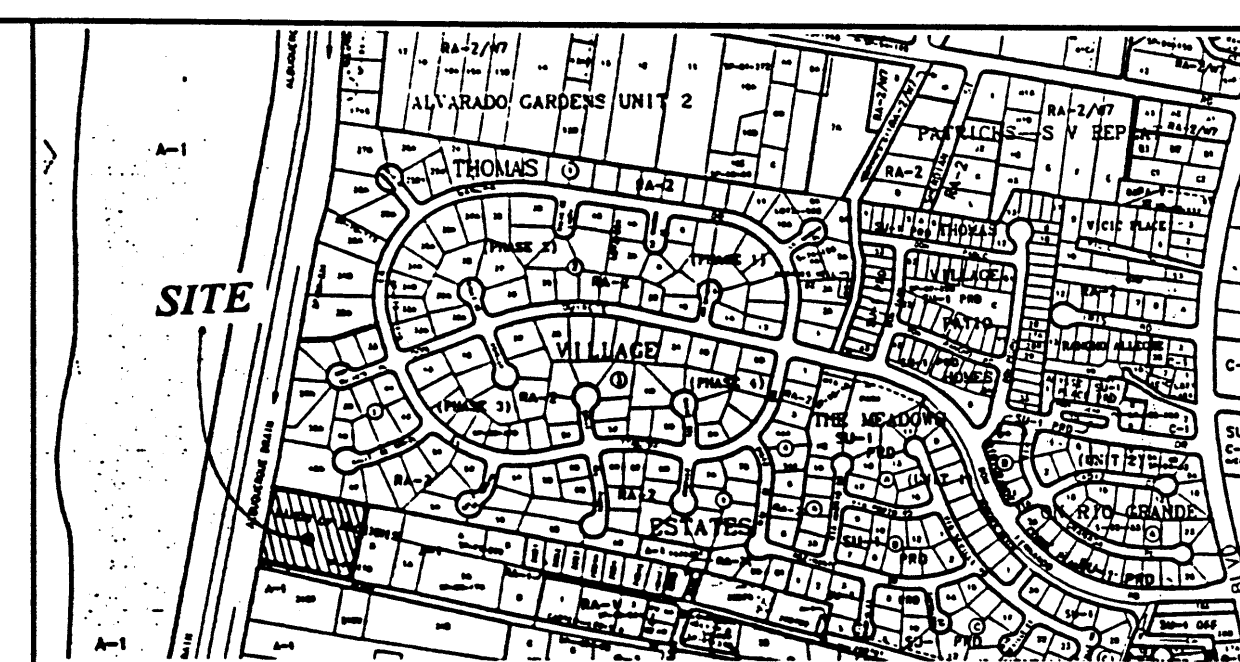
- EXISTING FENCE
- EXISTING POWER LINES
- EXISTING CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- PROPOSED SIDEWALK
- PROPOSED GRADE
- EXISTING GRADE
- EXISTING MANHOLE
- PROPOSED CURB
- PROPOSED FLOOD WALL
- PROPOSED SPOT ELEVATION
- EXIST. WATER LINE
- PROPOSED RETAINING WALL

#### EXISTING CONDITIONS

THE ENGINEER HAS PERSONALLY INSPECTED THE LAND, AND NO GRADING, FILLING, OR EXCAVATION HAS OCCURRED THEREON SINCE THE EXISTING CONTOUR MAP WAS PREPARED.

SHAHAB BIAZAR, P.E.

4-4-98  
DATE



#### LEGAL DESCRIPTION:

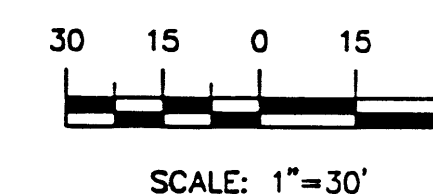
LOT A, LANDS OF MCGINNIS

#### NOTES:

1. ALL SPOT ELEVATIONS PRESENT THE FLOWLINE ELEVATION UNLESS OTHERWISE NOTED
2. ADD 4900 TO ALL THE SPOT ELEVATIONS.

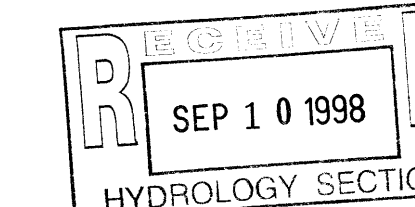
RESIDENCE = 4614 S.F.  
PORTALES 929 S.F.  
GARAGE 738 S.F.

#### GRAPHIC SCALE



#### EROSION CONTROL PLAN AND POLLUTION PREVENTION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL STORM RUN OFF ON SITE.
4. REPAIR OF DAMAGED FACILITIES AND CLEAN-UP OF SEDIMENT ACCUMULATION ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



ROUGH GRADING APPROVAL

DATE

#### LOT A, LANDS OF MCGINNIS GRADING AND DRAINAGE PLAN

ENGINEER'S SEAL		DRAWN BY SBB
		DATE 8-30-98
		9817GR.DWG
		SHEET # 1
		JOB # 9817

#### VOLUME CALCULATIONS FOR 10-DAY STORM

ZONE = 2

SUB-BASIN AREA (SF) AREA (AC) AREA (MI)  
BASIN 86684.40 1.99000 0.003109

$$E = \frac{EA(AA) + EB(AB) + EC(AC) + ED(AD)}{AA + AB + AC + AD}$$

$$V-360 = E (AA + AB + AC + AD) / 12 \text{ in/ft}$$

$$V-10, \text{Day} = V-360 + AD(P-10, \text{Day} - P-360) / 12 \text{ in/ft}$$

EA = 0.53  
EB = 0.78  
EC = 1.13  
ED = 2.12

AA = 40.00%  
AB = 24.00%  
AC = 13.00%  
AD = 13.00%

P-60 = 2.01  
P-360 = 2.35  
P-1440 = 2.75  
P-10 Day = 3.95

E = 0.8178 IN  
V-360 = 0.1731 AC-FT  
AD = 0.3302 AC  
V-10 Day = 0.2171 AC-FT  
V-10 DAY = 9.457.03 CF

V-DISPLACED BY THE PAD = 0.00 CF

TOTAL REQUIRED VOLUME = 9.457.03 CF

#### VOLUME CALCULATIONS (PROVIDED)

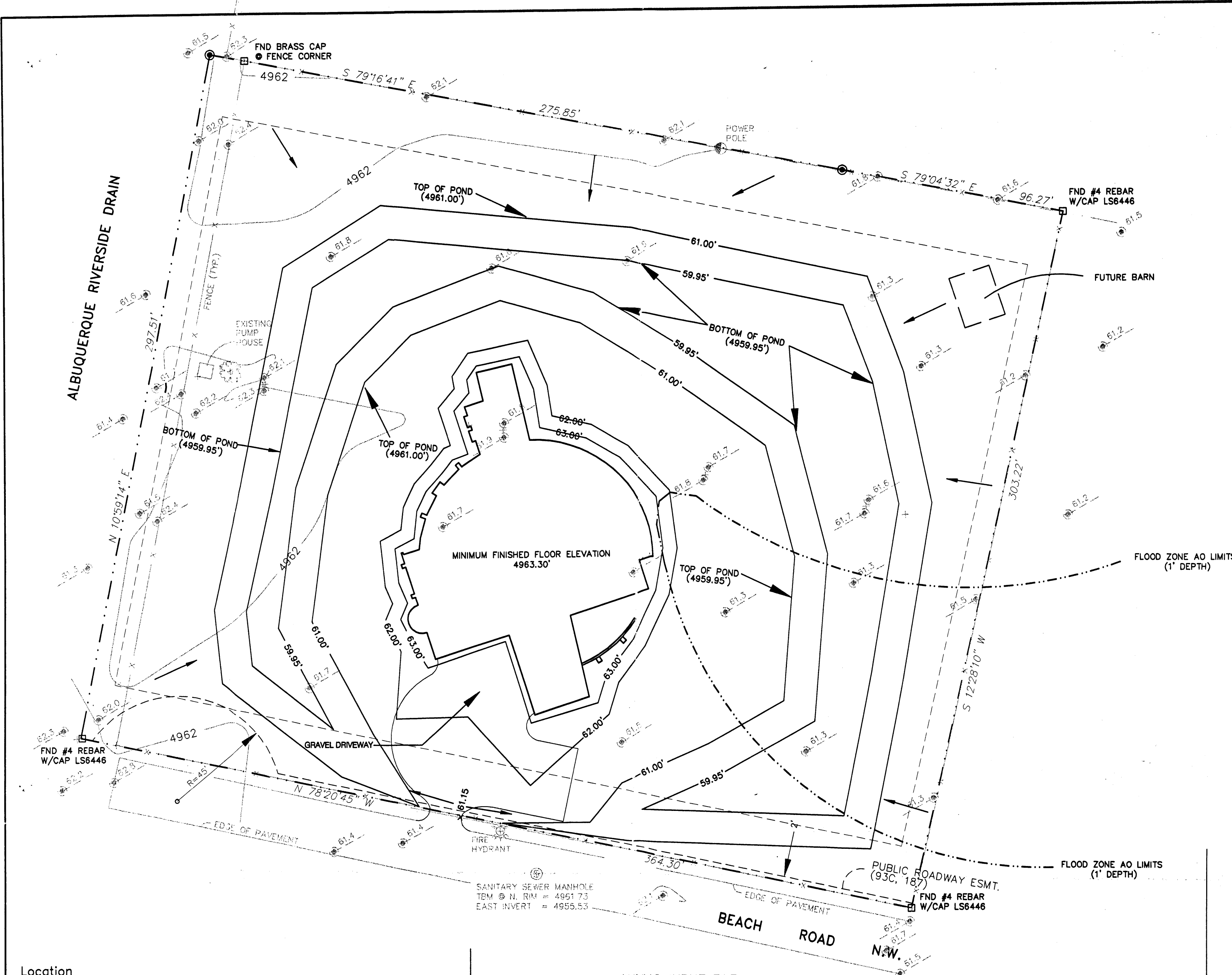
AREA @ TOP SURFACE OF PONDING AREA (4961.00') = 14,815.01 SF  
AREA @ BOTTOM SURFACE OF PONDING AREA (4960.60') = 6,253.96 SF  
AVG. SURFACE AREA = (5961.00 + 4960.60) / 2 = 25,015.85 SF  
PONDING DEPTH = 0.40'  
VOLUME PROVIDED = 25,015.85 x 0.40 = 10,006.34 CF

TOTAL VOLUME PROVIDED = 10,006.34 CF

4,214 cf

30/9817/9817GR.DWG/SBB/9-04-98





**Location**  
The site is a 2.53 acres site which is located at northeast corner of Beach Road and Albuquerque Riverside Drain. See attached vicinity map for location.

**Purpose**  
The purpose of this report is to present a grading and drainage solution for the proposed house.

**Existing Drainage Conditions**  
The site is fairly flat. The runoff at existing runoff conditions (3.96 cfs) ponds on site. There are no offsite runoff that enter this site. The entire site falls within a 500-year flood plain. Small portion of the site falls within a 100-year flood plain, Zone AO (1' depth). See attached FIRM Map 35001C0331 D for the location of the site.

**Proposed Conditions and On-Site Drainage Management Plan**  
The site will be graded so all the runoff will pond on site. The house pad will be placed outside the 100-year (Zone AO) limits. The existing ground elevations inside the Zone AO is 4961.30'. The house pad will be placed two feet (2' @ 4963.30') above this elevation. The pond provided has a volume of 10,006.34 cf which is greater than required volume of 9,981.60 cf. See this sheet for volume calculations. The runoff was calculated using the 100-year, 24-hour storm. See this grading plan for AHYMO input and summary output file and ponding location.

**Calculations**  
City of Albuquerque, Development Process Manual, Section 22.2, Hydrology Section, revised January, 1993, was used for the runoff calculations. A treatment of A=100 % was used for on site existing conditions. A treatment of D=13% C=13%, B=54% and A=20% was used for proposed conditions. The site falls under Zone 2 based on Figure A-1 of page A-1.

**AHYMO INPUT FILE**

\* ZONE 2  
(100-YEAR, 24 HOUR, UNDER EXISTING CONDITIONS)  
START TIME=0.0  
RAINFALL TYPE=2 RAIN QUARTER=0.0 IN  
RAIN ONE=2.01 IN RAIN SIX=2.35 IN  
RAIN DAY=2.75 IN DT=0.03333 HR  
COMPUTE NM HYD ID=1 HYD NO=101.0 AREA=0.003968 SQ MI  
PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00  
TP=0.1333 HR MASS RAINFALL=-1

\* (100-YEAR, 24 HOUR, UNDER PROPOSED CONDITIONS)  
COMPUTE NM HYD ID=1 HYD NO=102.0 AREA=0.003968 SQ MI  
PER A=20.00 PER B=54.00 PER C=13.00 PER D=13.00  
TP=0.1333 HR MASS RAINFALL=-1

\* (10-YEAR, 24 HOUR, UNDER EXISTING CONDITIONS)  
START TIME=0.0  
RAINFALL TYPE=2 RAIN QUARTER=0.0 IN  
RAIN ONE=1.34 IN RAIN SIX=1.57 IN  
RAIN DAY=1.83 IN DT=0.03333 HR  
COMPUTE NM HYD ID=1 HYD NO=111.0 AREA=0.003968 SQ MI  
PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00  
TP=0.1333 HR MASS RAINFALL=-1

\* (10-YEAR, 24 HOUR, UNDER PROPOSED CONDITIONS)  
COMPUTE NM HYD ID=1 HYD NO=112.0 AREA=0.003968 SQ MI  
PER A=20.00 PER B=54.00 PER C=13.00 PER D=13.00  
TP=0.1333 HR MASS RAINFALL=-1

\* FINISH

**AHYMO SUMMARY OUTPUT FILE**

AHYMO SUMMARY TABLE (AHYMO194)-AMAFCA Hydrologic Model-January,1994 RUN DATE (MON/DAY/YR) =10/17/1998  
INPUT FILE = 9817

HYDROGRAPH ID	FROM TO ID	AREA NO.	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	TIME TO RUNOFF (INCHES)	CFS PEAK PER ACRE	PAGE = 1
START							
RAINFALL TYPE= 2							TIME= .00
COMPUTE NM HYD 101.00 -	1	0.00397	3.96	0.112	0.53121	1.533 1.559	RAIN24= 2.750
COMPUTE NM HYD 102.00 -	1	0.00397	6.43	0.206	0.97494	1.500 2.532	PER IMP= .00
START							TIME= .00
RAINFALL TYPE= 2							RAIN24= 2.070
COMPUTE NM HYD 111.00 -	1	0.00397	1.43	0.040	0.18834	1.533 0.562	PER IMP= .00
COMPUTE NM HYD 112.00 -	1	0.00397	3.51	0.111	0.52635	1.500 1.382	PER IMP= 13.00
FINISH							

**LEGEND**

- EXISTING FENCE
- EXISTING POWER LINES
- EXISTING CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- PROPOSED SIDEWALK
- PROPOSED GRADE
- EXISTING GRADE
- EXISTING MANHOLE
- PROPOSED CURB
- PROPOSED FLOOD WALL
- PROPOSED SPOT ELEVATION
- EXIST. WATER LINE
- PROPOSED RETAINING WALL

**EXISTING CONDITIONS**

THE ENGINEER HAS PERSONALLY INSPECTED THE LAND, AND NO GRADING, FILLING, OR EXCAVATION HAS OCCURRED THEREON SINCE THE EXISTING CONTOUR MAP WAS PREPARED.

SHAHAB BIAZAR, P.E. DATE

**VOLUME CALCULATIONS FOR 10-DAY STORM**

ZONE = 2

SUB-BASIN AREA (SF) AREA (AC) AREA (MI)  
BASIN 110630.11 2.5397 0.003968

$E = \frac{EA(AA)+EB(AB)+EC(AC)+ED(AD)}{AA+AB+AC+AD}$

V-360 =  $E (AA+AB+AC+AD) / 12 \text{ in/ft}$

V-10,Day =  $V-360+AD(P-10,Day - P-360) / 12 \text{ in/ft}$

EA = 0.53  
EB = 0.78  
EC = 1.13  
ED = 2.12

AA = 20.00%  
AB = 54.00%  
AC = 13.00%  
AD = 13.00%

P-60 = 2.01  
P-360 = 2.35  
P-1440 = 2.75  
P-10 Day = 3.95

$E = 0.9497 \text{ IN}$   
V-360 = 0.2010 AC-FT  
AD = 0.3302 AC  
V-10 Day = 0.2450 AC-FT  
V-10 DAY = 10,673.04 CF

V-DISPLACED BY THE PAD = 0.00 CF

**TOTAL REQUIRED VOLUME = 10,673.04 CF**

**VOLUME CALCULATIONS (PROVIDED)**

AREA @ TOP SURFACE OF PONDING AREA (4961.00') = 14,815.01 SF  
AREA @ BOTTOM SURFACE OF PONDING AREA (4960.60') = 6,253.96 SF  
AVG. SURFACE AREA =  $(14,815.01+6,253.96)/2 = 10,534.49 \text{ SF}$   
PONDING DEPTH = 1.05'  
VOLUME PROVIDED =  $10,534.49 \times 1.05 = 11,061.21 \text{ CF}$

**TOTAL VOLUME PROVIDED = 11,061.21 CF**

**SITE**

**VICINITY MAP:** G-12-Z

**FEMA MAP:** 35001C0331 D

**LEGAL DESCRIPTION:**  
LOT A, LANDS OF MCGINNIS

**NOTES:**  
1. ALL SPOT ELEVATIONS PRESENT THE FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.  
2. ADD 4900 TO ALL THE SPOT ELEVATIONS.  
3. ALL THE DISTURBED AREAS HAVE TO BE RESEED.

RESIDENCE = 4614 S.F.  
PORTALES 929 S.F.  
GARAGE 738 S.F.

**GRAPHIC SCALE**  
30 15 0 15 30  
SCALE: 1"=30'

**EROSION CONTROL PLAN AND POLLUTION PREVENTION NOTES**

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**ROUGH GRADING APPROVAL** DATE

**LOT A, LANDS OF MCGINNIS GRADING AND DRAINAGE PLAN**

ENGINEER'S SEAL: SHAHAB BIAZAR, P.E. #13479

DRAWN BY SBB

DATE: 10-30-98

ADVANCED ENGINEERING and CONSULTING

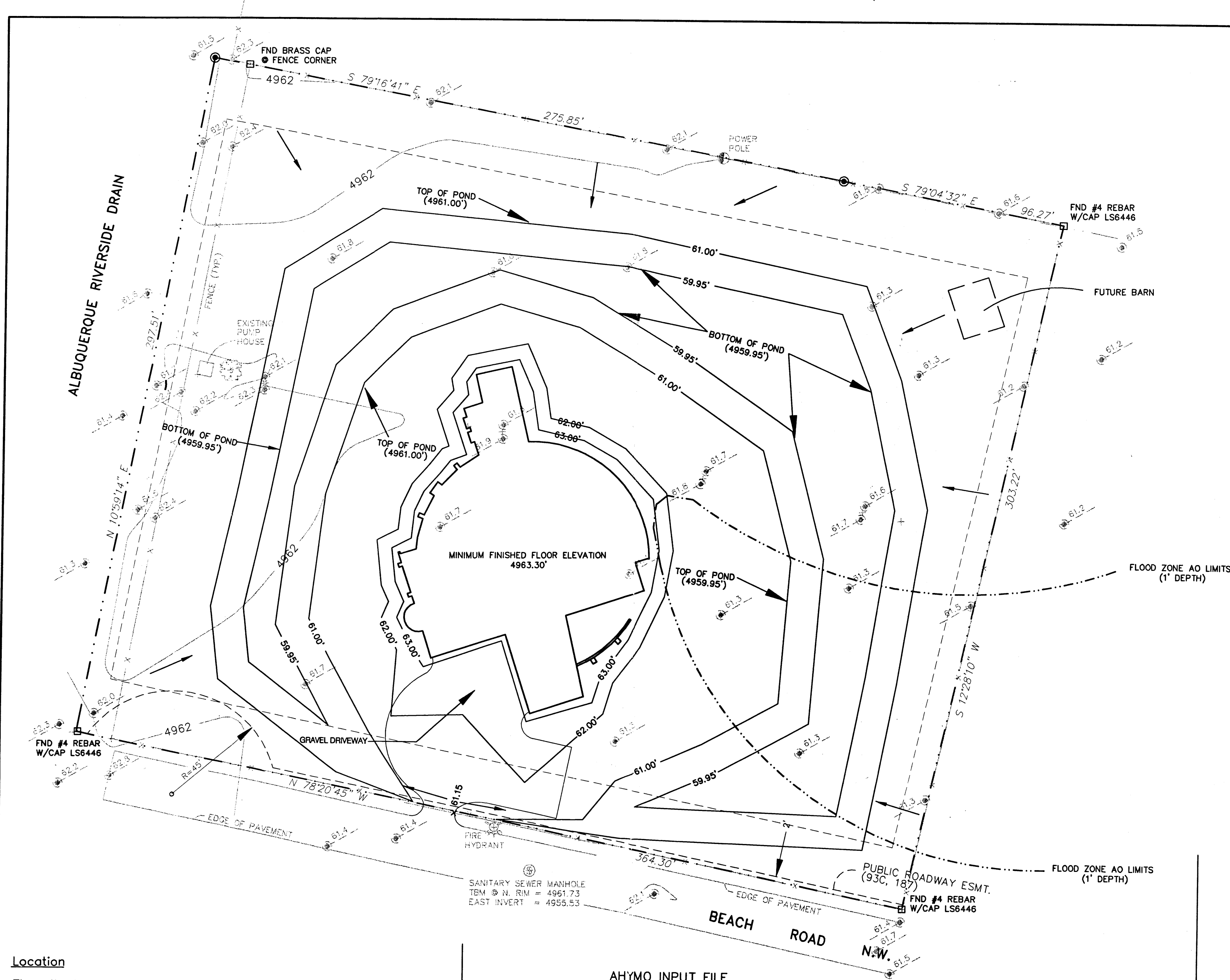
10209 SNOWFLAKE CT., NW  
ALBUQUERQUE, NEW MEXICO 87114  
(505) 899-5573

SHEET # 1

JOB # 9817

30/9817/9817GR.DWG/SBB/10--17-98





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#### AHYMO INPUT FILE

```
* ZONE 2
* (100-YEAR, 24 HOUR, UNDER EXISTING CONDITIONS)
START TIME=0.0
RAINFALL TYPE=2 RAIN QUARTER=0.0 IN
RAIN ONE=2.01 IN RAIN SIX=2.35 IN
RAIN DAY=2.75 IN DT=0.03333 HR
COMPUTE NM HYD ID=1 HYD NO=101.0 AREA=0.003968 SQ MI
PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
TP=0.1333 HR MASS RAINFALL=-1
* (100-YEAR, 24 HOUR, UNDER PROPOSED CONDITIONS)
COMPUTE NM HYD ID=1 HYD NO=102.0 AREA=0.003968 SQ MI
PER A=20.00 PER B=54.00 PER C=13.00 PER D=13.00
TP=0.1333 HR MASS RAINFALL=-1
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PER A=20.00 PER B=54.00 PER C=13.00 PER D=13.00
TP=0.1333 HR MASS RAINFALL=-1
* FINISH
```

#### AHYMO SUMMARY OUTPUT FILE

AHYMO SUMMARY TABLE (AHYMO194)-AMAFCA Hydrologic Model-January, 1994 RUN DATE (MON/DAY/YR) = 10/17/1998  
INPUT FILE = 9817

HYDROGRAPH	ID	TO	FROM	AREA	PEAK	RUNOFF	TIME TO	CFS	PER	PAGE
IDENTIFICATION	NO.	NO.	NO.	(SQ MI)	(CFS)	(AC-FT)	(INCHES)	(HOURS)	ACRE	NOTATION
START										TIME= .00
RAINFALL	TYPE= 2									RAIN24= 2.750
COMPUTE NM HYD	101.00	-	1	0.00397	3.96	0.112	0.53121	1.533	1.559	PER IMP= .00
COMPUTE NM HYD	102.00	-	1	0.00397	6.43	0.206	0.97494	1.500	2.532	PER IMP= 13.00
START										TIME= .00
RAINFALL	TYPE= 2									RAIN24= 2.070
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COMPUTE NM HYD	112.00	-	1	0.00397	3.51	0.111	0.52635	1.500	1.382	PER IMP= 13.00
FINISH										

#### LEGEND

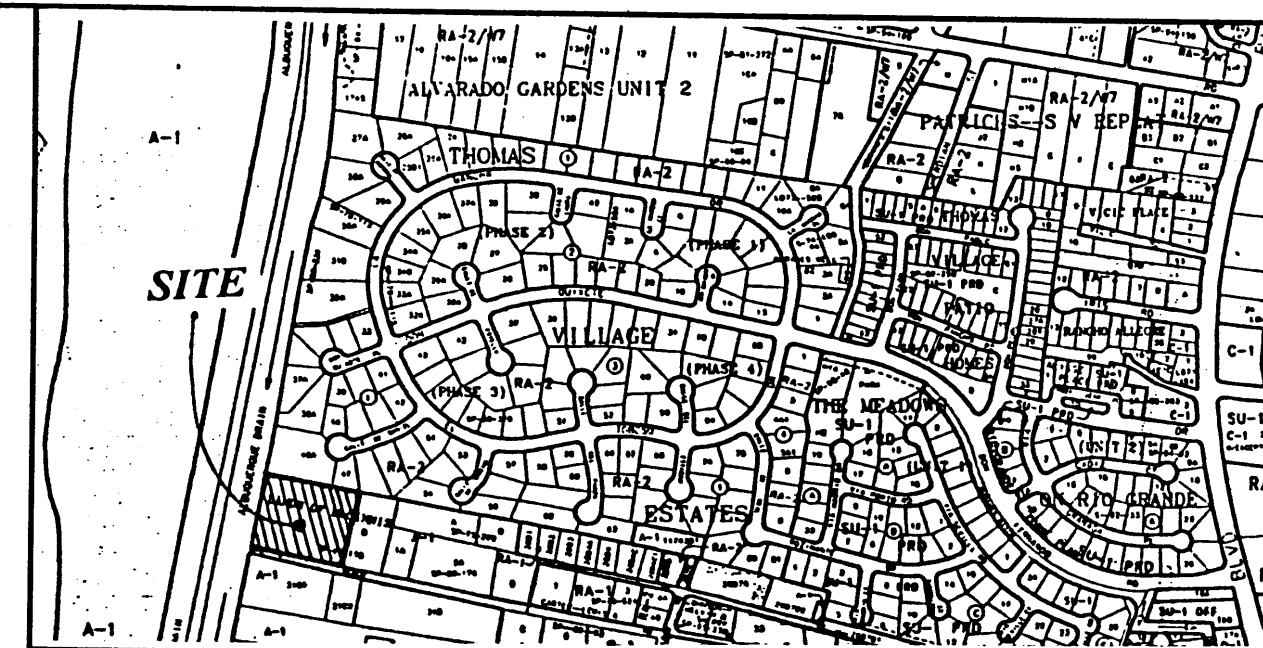
- X — EXISTING FENCE
- — — EXISTING POWER LINES
- — — EXISTING CURB & GUTTER
- — — BOUNDARY LINE
- — — EASEMENT
- — — PROPOSED SIDEWALK
- — — PROPOSED GRADE
- — — EXISTING GRADE
- — — EXISTING MANHOLE
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- — — PROPOSED SPOT ELEVATION
- — — EXIST. WATER LINE
- — — PROPOSED RETAINING WALL

#### EXISTING CONDITIONS

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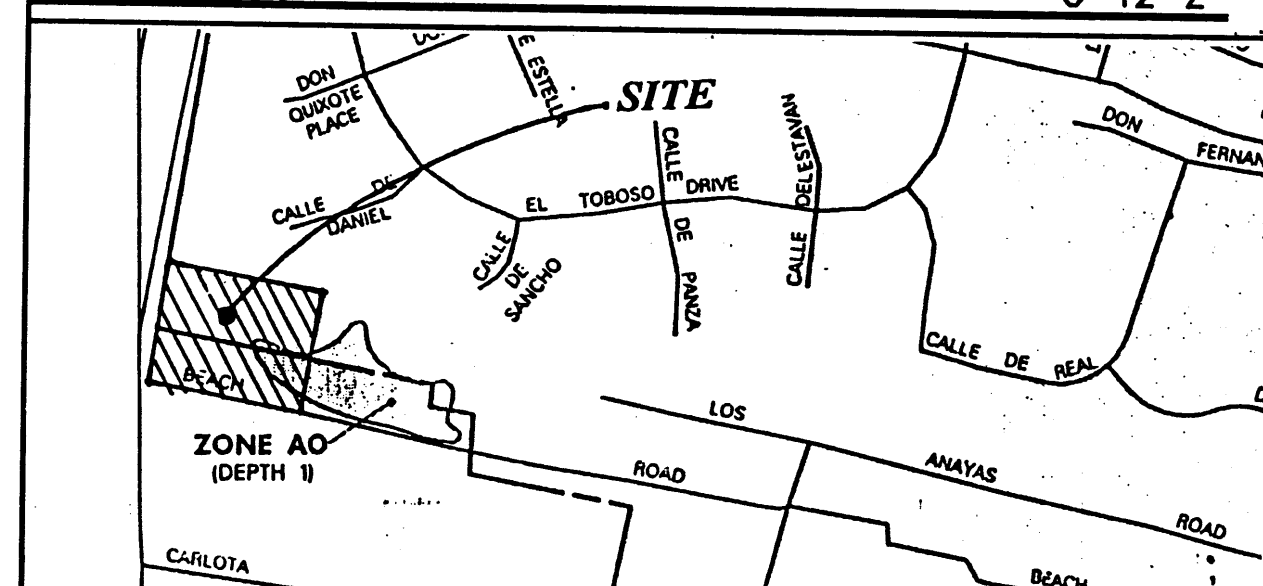
SHAHAB BIAZAR, P.E.

DATE



VICINITY MAP:

G-12-Z



FEMA MAP:

35001C0331 D

#### LEGAL DESCRIPTION:

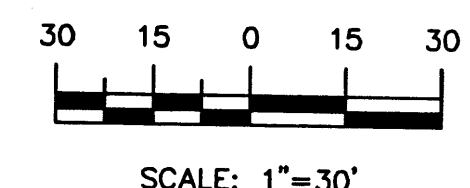
LOT A, LANDS OF MCGINNIS

#### NOTES:

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GARAGE 738 S.F.

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ROUGH GRADING APPROVAL

DATE

#### LOT A, LANDS OF MCGINNIS GRADING AND DRAINAGE PLAN

ENGINEER'S SEAL 	DRAWN BY SBB DATE 8-30-98 9817GR.DWG SHEET # 1 JOB # 9817
<p>ADVANCED ENGINEERING and CONSULTING</p> <p>10209 SNOWFLAKE CT., NW ALBUQUERQUE, NEW MEXICO 87114 (505)899-5570</p>	