

<u>NOTES:</u>
1. STRUCTURE DOES NOT LIE WITHIN THE FEMA FLOODPLAIN. 2. ADD 5400.0 TO CONTOUR ELEVATIONS. 3. CONTOUR INTERVAL EQUALS 1.0 FT EXCEPT AS NOTED.

4. POSITIVE DRAINAGE FROM FOUNDATION. 5. DRAWING UTILIZED FROM THE LAYOUT OF PROPOSED RESIDENCE AS

6. DRAINAGE CALCULATIONS PREPARED IN ACCORDANCE WITH SECTIONS 22.2, HYDROLOGY DEVELOPMENT MANUAL, BERNALLILO

7. APPROXIMATE LOT SIZE IS 165 FT x 234 FT. 8. STRUCTURE SET-BACK ON LOT IS 10 FT. FROM WEST PROPERTY LINE

AND 15 FT. FROM THE NORTH PROPERTY LINE.

9. ONLY AREAS NEEDED FOR CONSTRUCTION WILL BE CLEARED AND GRUBBED. OTHER AREAS WILL REMAIN UNDISTURBED.

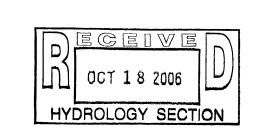
10. DISTURBED AREAS WILL BE VEGETATED/LANDSCAPED IN ACCORDANCE WITH CITY OF ALBUQUERQUE/BERNALLILO COUNTY ZONING REQUIREMENTS.

ENGINEER'S STATEMENT

I, hereby, state that I have personally inspected the land represented by this plan and I certify the contours shown on this plan substantially reflect the conditions of

Bernard Struman 10/16/06 (Bernard R. Freeman, NMPE 8795)

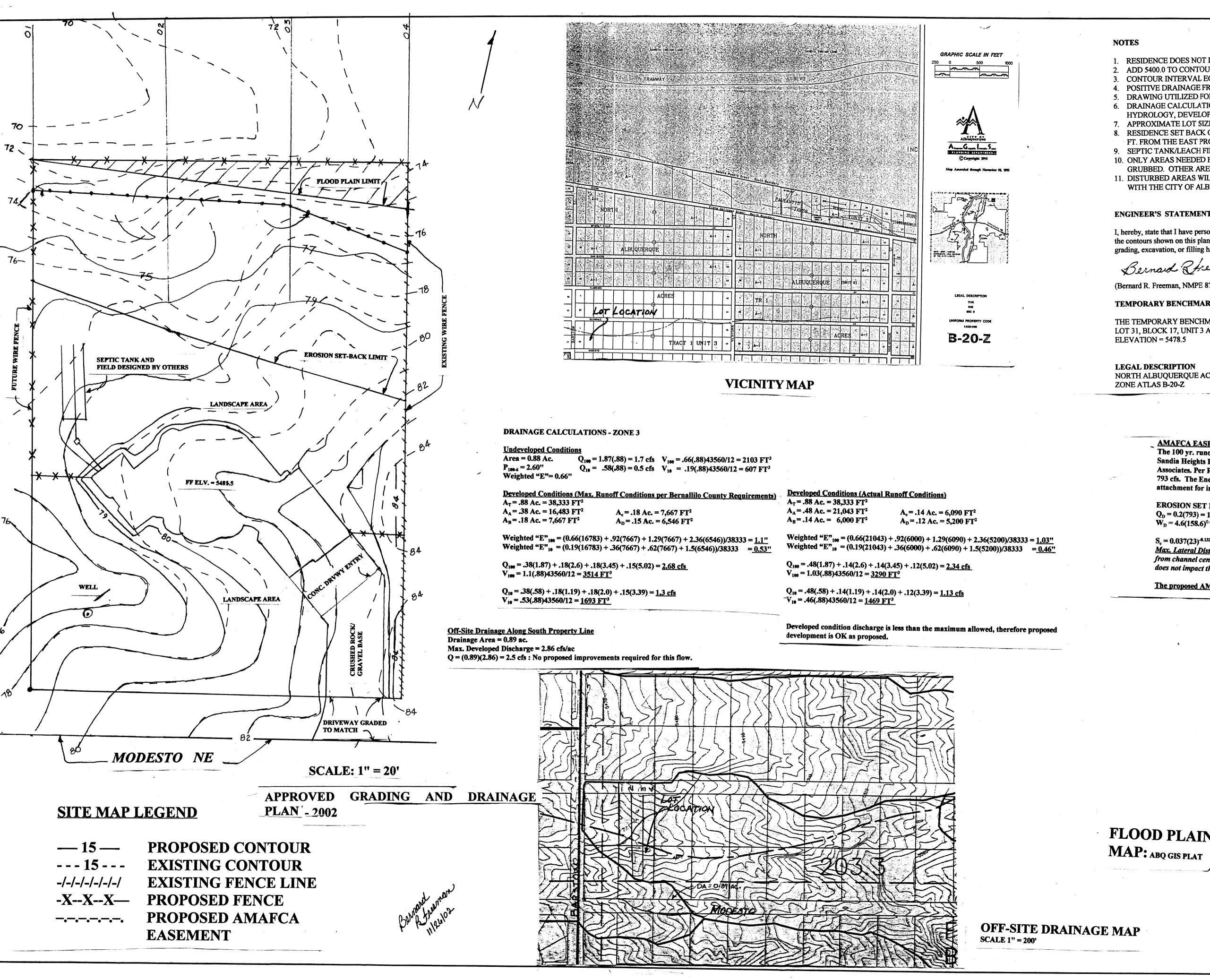
CONTROL STATION	DATA	,	Public We	parque, Kau Mexico rte Dupertment ering Division
Name of Station1-320	StoteJEC	County_1	erpalillo ·	
Establishing Agency ACS Section 8 Township 118	Year 1969	Chief of P	orty_LJ_Del D	bgq
Description (1977) The station is located 9 reast of downtown Albuquero To reach the station from tion of Louisiana Blvd. at go east on Pasco Downtown St.; the Barstow St. 1.0 mile to The station is located in quadrant of the intersect. The station mark is a stateblet, stamped "1-B20", a concrete post projecting ground.	the intersected Pasco Del Norte 1.0 en north on o Modesto Ave the northeadion.	Lecotion Should be a second of the second of	61788	A. 1-820"
HORIZONTAL DATA	PIELO 10E701001	Brances Dress	O	•••
GEOGRAPHIC POSITION (N	AD 1927)	<u>.</u>	2nd,order	4 8
Latitude 35 11 19,652	2 Longitude	96 33 01.5	1409	
PLANE COORDINATES			lateIM	
× 410237.56	¥ 1524092.4	6	ound-te-Grid Factor	0_99964740
ELEVATION DATA				•
SPIRIT LEVEL ELEVATION ADJU- TRIGONOMETRIC ELEVATION	(SLD 1929) Fee STED NAVD88	5474, 510 5477.18 Meters	Motors 1668,63	2nd Order 1st-Class
INIGONOMICING ELEVATION	-,			
AZIMUTH DATA	O (er\(\rightarrow\)(1) Angle	-0 10 23	DIST	TANCE .





DETAILS REGARDING PREVIOUSLY DETAIL LOT INFORMATION

LOT 31, BLK 17, TR 1, U3 PLAN PREPARED BY: BERNARD R. FREEMAN, PE **FOR GARY SINGER**



NOTES

RESIDENCE DOES NOT LIE WITHIN THE FEMA FLOOD BOUNDARY.

2. ADD 5400.0 TO CONTOUR ELEVATIONS.

CONTOUR INTERVAL EQUALS 1.0 FOOT.

4. POSITIVE DRAINAGE FROM FOUNDATION. DRAWING UTILIZED FOR THE LAYOUT OF PROPOSED RESIDENCE AS SHOWN.

6. DRAINAGE CALCULATIONS PREPARED IN ACCORDANCE WITH SECTIONS 22.2, HYDROLOGY, DEVELOPMENT PROCESS MANUAL, BERNALLILO COUNTY.

7. APPROXIMATE LOT SIZE IS 165 FT. x 234 FT.

8. RESIDENCE SET BACK ON LOT IS 52 FT. FROM SOUTH PROPERTY LINE AND 25 FT. FROM THE EAST PROPERTY LINE.

9. SEPTIC TANK/LEACH FIELD TO BE DESIGNED AND INSTALLED BY OTHERS.

10. ONLY AREAS NEEDED FOR CONSTRUCTION WILL BE CLEARED AND GRUBBED. OTHER AREAS WILL REMAIN UNDISTURBED.

11. DISTURBED AREAS WILL BE REVEGETATED/LANDSCAPED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE ZONING REQUIREMENTS.

ENGINEER'S STATEMENT

I, hereby, state that I have personally inspected the land represented by this plan and I certify that the contours shown on this plan substantially reflect the conditions of the site and that no grading, excavation, or filling has occurred since this plan was prepared.

Bernard Rfreeman 11/25/02

(Bernard R. Freeman, NMPE 8795)

TEMPORARY BENCHMARK

THE TEMPORARY BENCHMARK IS #4 REBAR LOCATED AT THE SW CORNER OF LOT 31, BLOCK 17, UNIT 3 AND TRACT 1 **ELEVATION = 5478.5**

LEGAL DESCRIPTION NORTH ALBUQUERQUE ACRES, LOT 31, BLOCK 17, UNIT 3, TRACT 1 **ZONE ATLAS B-20-Z**

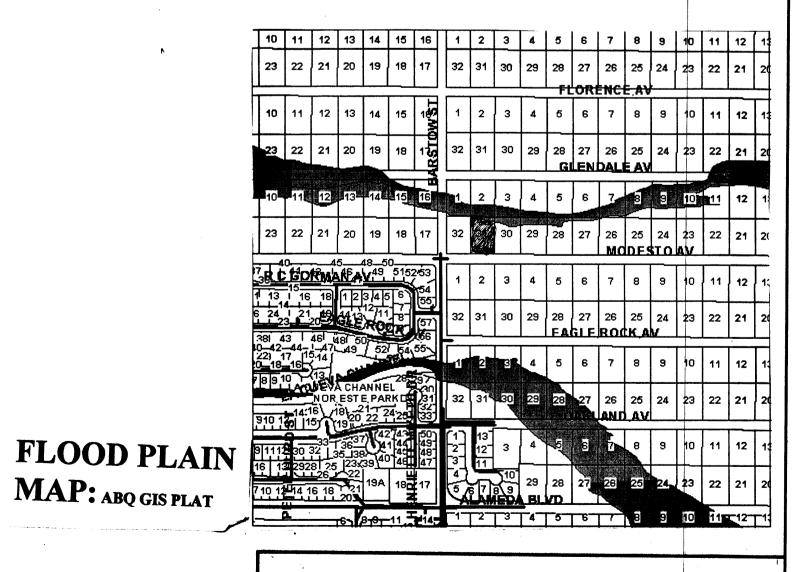
AMAFCA EASEMENT:

The 100 yr. runoff amount was pre-determined from the North Albuquerque Acres and Sandia Heights Drainage Study: Flood Prone Maps dated June 1999 and prepared by RTI Associates. Per RTI, the discharge at the east property line of Lot 31 is calculated to be 793 cfs. The Energy Grade Line (EGL) was determined using COE HEC-RAS2 (see attachment for input and output) software and is designated on the map.

EROSION SET BACK DISTANCE FROM BANK $Q_D = 0.2(793) = 158.6 \text{ cfs}$ $W_D = 4.6(158.6)^{0.4} = 35^{\circ}$

 $S_c = 0.037(23)^{-0.133} = 0.01886$; S = 0.02667; WHEN $S > S_c$. THEN Max. Lateral Distance = $11.5(158.6)^{0.4} + 0.5(35) = 105.0'$ (NOTE: Lateral distance is measure from channel centerline as shown on off-site drainage map. This erosion set-back distance does not impact this residence.)

The proposed AMAFCA Easement is the EGL and is shown on the drawing.



LOT 31 BLK 17 TR 1 U 3 **PLAN PREPARED BY:** BERNARD R. FREEMAN, PE **FOR** DAN & CHERYL SHELL