

FILE COPY



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 3, 1990

David L. Smith
Easterling & Associates, Inc.
5643 Paradise Boulevard, NW
Albuquerque, New Mexico 87114

RE: DRAINAGE PLAN FOR NEW DEALERSHIP - PART OF LOT 7, MITSUBISHI
(B-13/D3C) ENGINEER'S STAMP DATED MARCH 28, 1990

Dear Mr. Smith:

Based on the information provided on your submittal of March 29, 1990, the referenced plan is approved for Building Permit.

Please be advised that a separate permit is required for construction within City right-of-way. A copy of this approval letter will be required when the contractor applies for his excavation permit.

Please attach a copy of this plan to the construction sets prior to sign-off by Hydrology.

If I can be of further assistance, please feel free to call me at 768-2650.

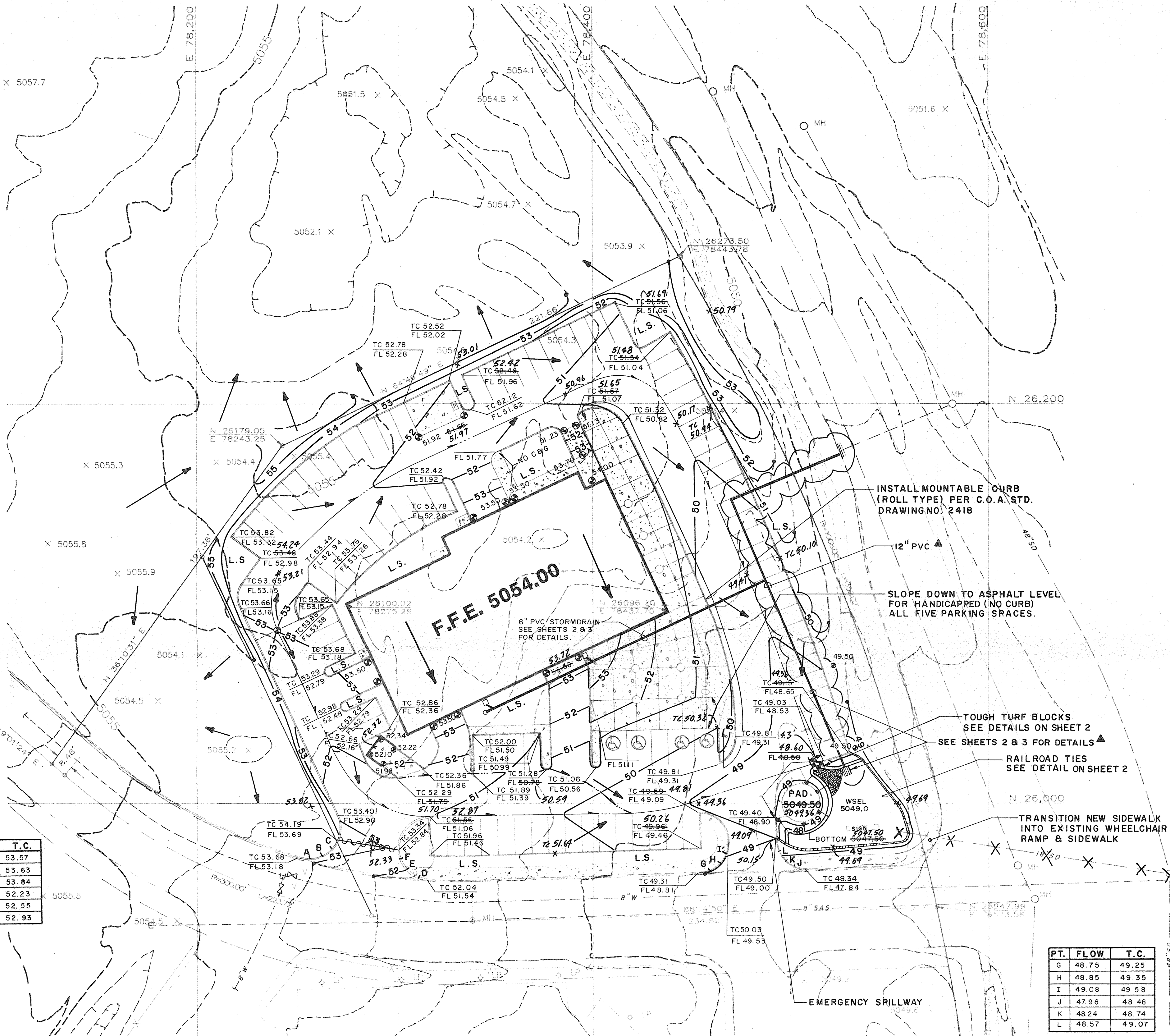
Cordially yours,

Gilbert Aldaz, P.E. & L.S.
Civil Engineer/Hydrology Section

xc: Darlene Saavedra

GA
(WP+1441)

PUBLIC WORKS DEPARTMENT



PT.	FLOW	T.C.
A	53.07	53.57
B	53.13	53.63
C	53.34	53.84
D	51.73	52.23
E	52.05	52.55
F	52.43	52.93

PT.	FLOW	T.C.
G	48.75	49.25
H	48.85	49.35
I	49.08	49.58
J	47.98	48.48
K	48.24	48.74
L	48.57	49.07

LEGAL DESCRIPTION:
PART OF LOT 7, TRACT N-1A, OF SEVEN BAR RANCH

BENCHMARK INFORMATION:
ACS STA. 1-B13 BRASS CAP ATOP CONCRETE MONUMENT 3' WEST OF EAST ROW FENCE
OF COORS ROAD, 210' SOUTH OF CALABACILLS ARROYO, ELEV. 5045.088

HYDROLOGY

	D.A.	H.	S.	L.	Tc	SOIL	%	C.N.	C.	P ₂	P ₁₀	P ₁₀₀	I ₂	I ₁₀	I ₁₀₀	VOL-2	VOL-10	VOL-100	Q ₂	Q ₁₀	Q ₁₀₀
	AC.	FT.	FT/FT	FT.	MIN.	TYPE	IMP.			IN.	IN.	IN.	IN/HR.	IN/HR.	IN/HR.	C.F.	C.F.	C.F.	C.F.S.	C.F.S.	C.F.S.
UNDEVELOPED	1.89	7.4	.0187	3.96	3.61	A	0	68	.40	.98	1.45	2.20	2.07	3.06	4.64	0	34.3	1,851	1.6	2.3	3.5
DEVELOPED	1.89	6	.0121	4.95	5.07	A	81	94	.815	.98	1.45	2.20	2.07	3.06	4.64	3,427	6,101	10,968	3.2	4.7	7.1

Q max FOR LOT 7 (5.9 a.c.) = 10.5 cfs. AMOUNT PRORATED FOR THIS PARCEL IS 3.36 cfs
PONDING REQUIREMENT = 3,059 C.F. PLANIMETER READING OF DESIGNED POND = 3,221 C.F.

SOILS INFORMATION FROM SOIL SURVEY U.S.D.A., S.C.S.

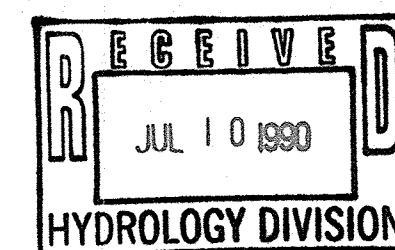
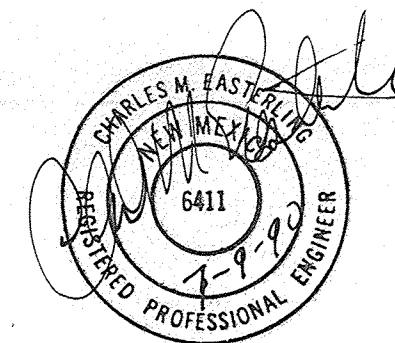
SOIL SERIES AND MAP SYMBOLS	DEGREE AND KIND OF LIMITATIONS FOR					SUITABILITY AS SOURCE OF —				SOIL FEATURES AFFECTING —		HYDROLOGIC SOIL GROUP	
	SEPTIC TANK ABSORPTION FIELDS	SEWAGE LAGOONS	SHALLOW EXCAVATIONS	DWELLINGS WITHOUT BASEMENTS	SANITARY LANDFILL (TRENCH TYPE)	LOCAL ROAD AND STREETS	ROAD FILL	SAND	GRAVEL	TOPSOIL	POND RESERVOIR AREAS		DIKES, LEVES, AND OTHER EMBANKMENTS
*Bluepoint: Bb, Ba, BCC, Bd3, BKD. For Wink part of Bd3, see Wink series; for Koku part of BKD, see Koku series.	Slight if slope is 1 to 8 percent, moderate if 8 to 12.	Severe: seepage.	Severe: cut-banks cave.	Slight if slope is 1 to 8 percent, moderate if 8 to 12.	Moderate: too sandy.	Slight if slope is 1 to 8 percent, moderate if 8 to 12.	Good.....	Fair: excess fines.	Unsuited...	Poor: too sandy.	Seepage.....	Piping; seepage...	A

BCC—Bluepoint loamy fine sand, 1 to 9 percent slopes. This soil is nearly level to moderately sloping. It has the profile described as representative of the series, but on about 10 percent of the acreage the surface layer is sand. Included in mapping are areas of Maduroz, Pajante, and Wink soils, which make up about 15 percent of the unit. Runoff is slow, and the hazard of soil blowing is severe. This soil is used for range, watershed, wildlife habitat, recreation, and community development. Dryland capability subclass VIIe; native plant community 2.

LEGEND

DESCRIPTION	NEW	EXISTING
CONTOURS	SS	SS
SPOT ELEVATION	48.2	48.2
DRAINAGE AREA BOUNDARY	-----	-----
DRAINAGE DIVIDE	-----	-----
WATER BLOCK	-----	-----
DIRECTION OF FLOW	-----	-----
ASPHALT PAVING	ASPHALT	ASPHALT
LANDSCAPING	L.S.	L.S.
RETAINING WALL	-----	-----
GARDEN WALL	-----	-----
SWALE	-----	-----
PROPERTY LINE	-----	-----
FENCE	-----	-----
CATCH BASIN	CB	CB
STORM DRAIN MANHOLE AND LINE	SD	SD
SANITARY SEWER MANHOLE AND LINE	SAS	SAS
FIRE HYDRANT AND WATER LINE	W	W
REDUCERS	-----	-----
WATER VALVES	1/2"	1/2"
WATER CONNECTIONS	-----	-----
WATER JOINTS	-----	-----
CONCRETE	-----	-----
GAS LINE	-----	-----
UNDERGROUND TELEPHONE	-----	-----
CABLE TELEVISION	-----	-----
POWER/TELEPHONE POLE	OP	OP
UNDERGROUND ELECTRICAL	-----	-----
CURB ELEVATION	TC 5088.28	TC 5087.78
HYDROLOGICAL ANALYSIS POINT	AP	AP
DETAIL REFERENCE	-----	-----
KEYED NOTES	-----	-----
CITY ADO. DETAIL REFERENCE	-----	-----
CURVE OR COORDINATE REFERENCE INFO	-----	-----
PHASE BOUNDARY	-----	-----

I, CHARLES M. EASTERLING, A NEW MEXICO REGISTERED PROFESSIONAL ENGINEER, CERTIFY THAT THE SITE GRADING WAS PERFORMED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN AS INDICATED HEREIN.

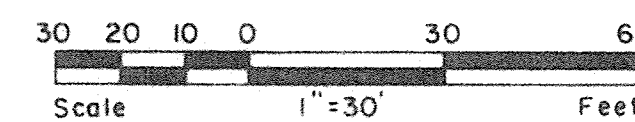


EMERGENCY SPILLWAY: Q = CLH^{3/2}

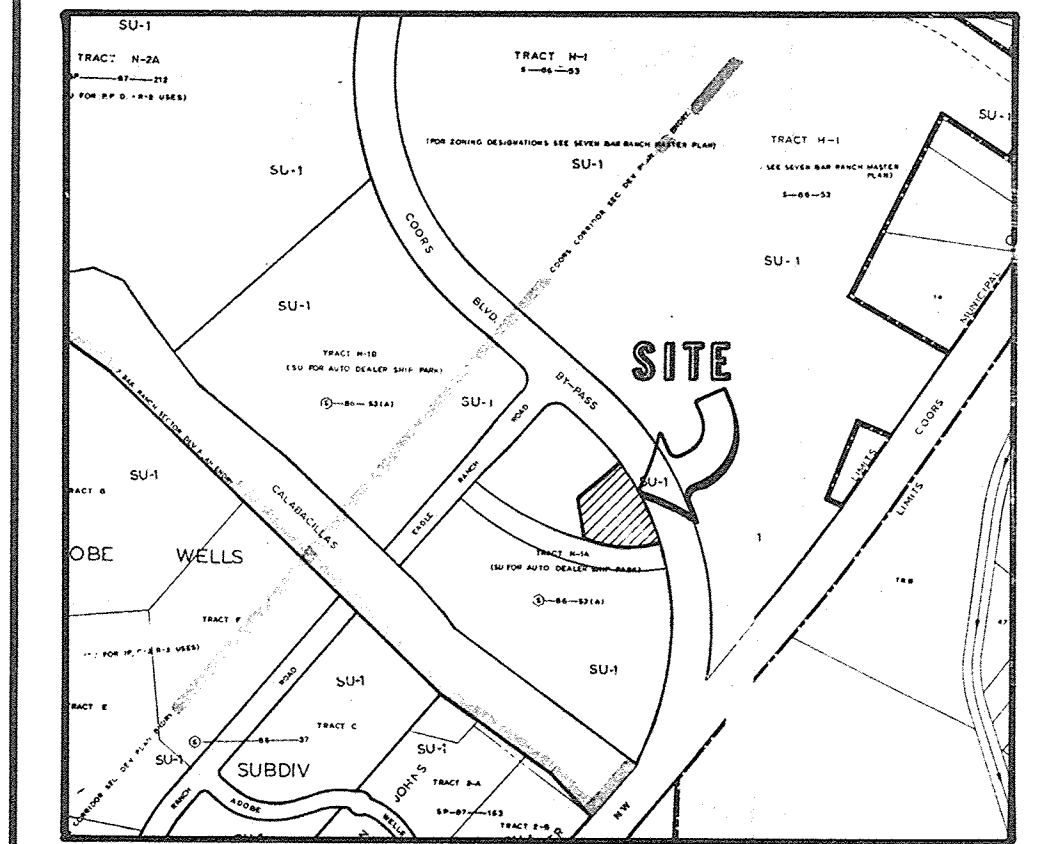
$$(3.2)(24)(.25)^{3/2} = 9.0 \text{ cfs}$$

HYDROLOGY APPROVAL & INSPECTION

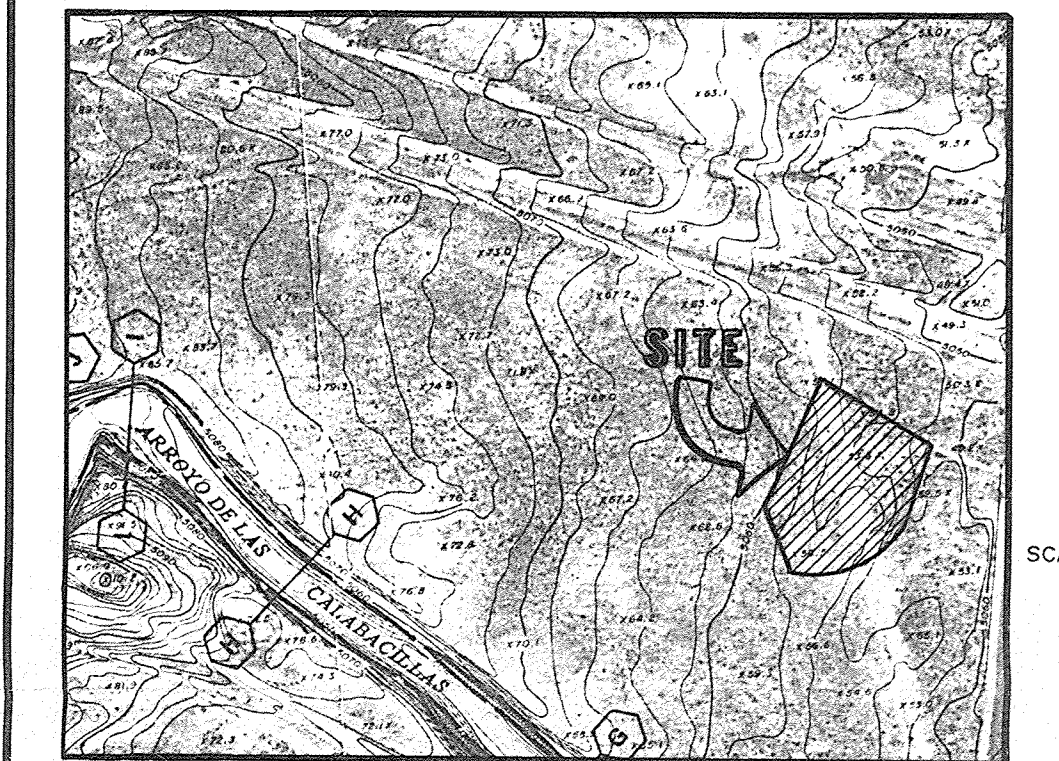
APPROVED FOR BUILDING PERMIT
ENGINEER: Gilbert Aldaz DATE: 4/2/90
INSPECTION REQUESTED DATE: 6/20/90
APPROVAL DATE: 7/12/90 DISAPPROVED
SDIP APPROVAL DATE
SURVEY DATE
HYDROLOGY BOOK NO./PAGE NO.
SURVEYED BY
COMMENTS: Certification by Engineer on 7/12/90



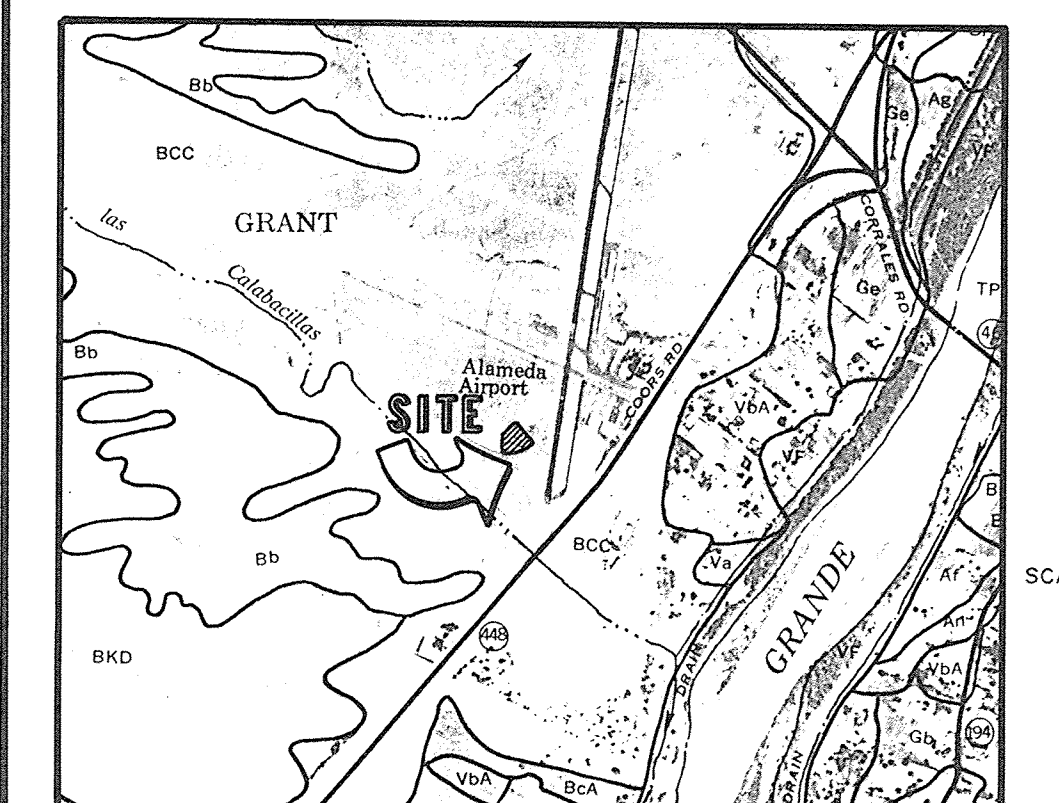
VICINITY MAP ZONE ATLAS MAP NO.



FLOOD HAZARD MAP & OFF-SITE FLOWS FROM F.E.M.A.



SOILS MAP SOIL SURVEY U.S.D.A., S.C.S.



▲ ALTERNATE STORM DRAIN CONNECTION	DLS	3/26/90
NO.	REVISIONS	BY DATE

NEW DEALERSHIP - LOT 7 MITSUBISHI GRADING AND DRAINAGE PLAN

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS

5643 Paradise Blvd. N.W.
Albuquerque, New Mexico 87114

Designed: DLS Drawn: JEL Checked: CME Sheet 1 of 3
Job No: 2194.1 Date: NOV. 1989