HYDROLOGY

K18/D47
1 PLAN

K18/D47

1 PLAN

TEXT

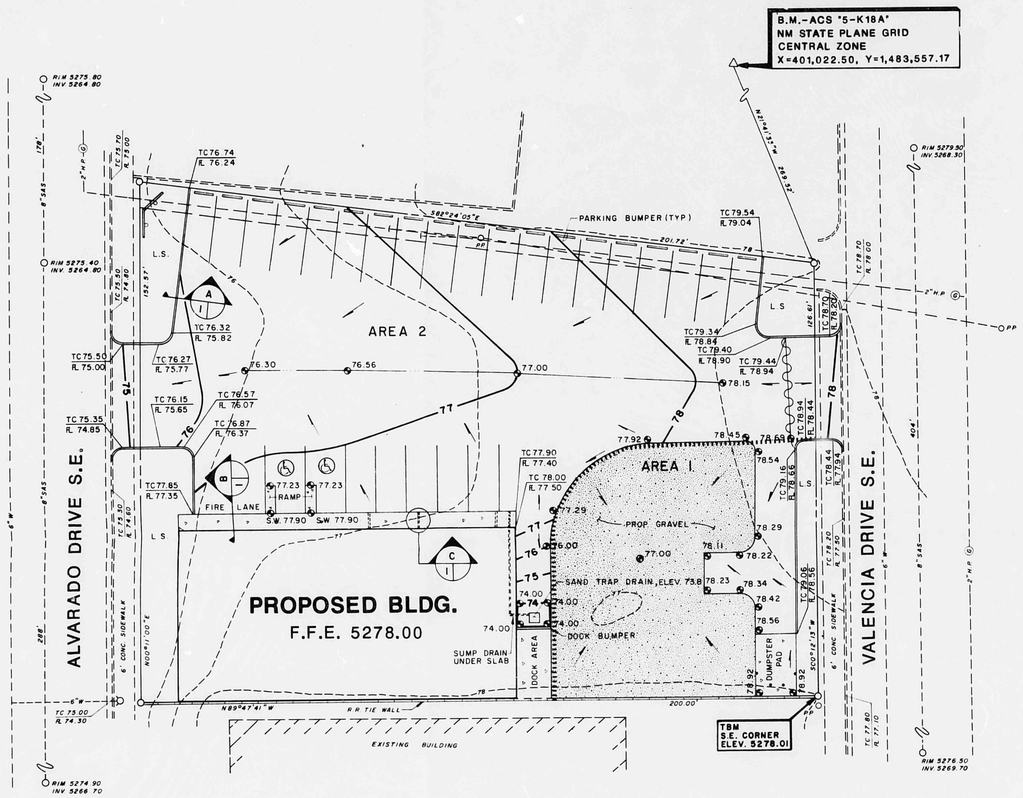
EXISTING CONDITIONS:

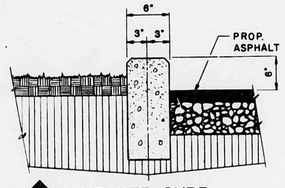
THIS PARCEL IS CURRENTLY UNDEVELOPED AND SLOPES GRADUALLY FROM EAST TO WEST WITH NO OFF-SITE FLOWS ENTERING THE PROPERTY.

DEVELOPED CONDITIONS:

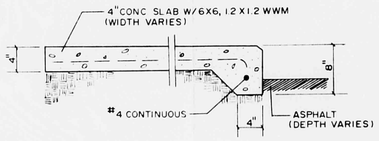
ALL RUN-OFF GENERATED ON-SITE WILL BE DIRECTED EITHER TO A PONDING AREA IN THE SOUTHEAST CORNER OR DISCHARGED INTO ALVARADO STREET.

20 15 10 5 0 20 40
Scale 1"=20' Feet

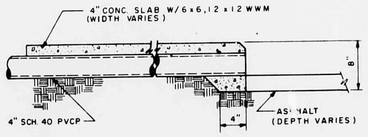




A HEADER CURB
N.T.S.



B SIDEWALK DETAIL
N.T.S.



C PVCP THROUGH SIDEWALK
N.T.S.

GENERAL NOTES FOR GRADING AND DRAINAGE

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2. ALL WORK DETAILED ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1986 EDITION, EXCEPT FOR GENERAL CONDITIONS.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT 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 AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
6. MAINTENANCE OF THE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
8. DISPOSAL OF ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS SPECIFIED IN SECTION 6.14 OF THE GENERAL CONDITIONS IN THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1986 EDITION.
9. ALL CONCRETE DUMPSTER PADS SHALL BE SIX INCH REINFORCED CONCRETE (6"x6", 10 GA. W.W.M.).
10. **OWNERSHIP OF DOCUMENTS:** THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF **EASTERLING & ASSOCIATES, INC.** AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF **EASTERLING & ASSOCIATES, INC.**
11. **CONSTRUCTION SAFETY:** THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY.
12. **EROSION CONTROL:** THE SITE IS PLANNED FOR PHASED DEVELOPMENT. GRADING OUTSIDE THE BOUNDARIES OF THE CURRENT PHASE SHALL BE LIMITED TO THE EXTENT POSSIBLE. ALL AREAS DISTURBED SHALL BE REVEGETATED.
13. **CONSTRUCTION PHASE:** THE CONTRACTOR SHALL EXERCISE REASONABLE CARE DURING CONSTRUCTION TO PREVENT THE MOVEMENT OF SEDIMENT FROM THE SITE INTO THE STREET. LOOSE SOIL STOCKPILES IN THE STREET DURING UTILITY CONNECTION ACTIVITIES SHALL BE PROTECTED FROM BEING CARRIED DOWNSTREAM BY FLOWING WATER IN THE STREET.

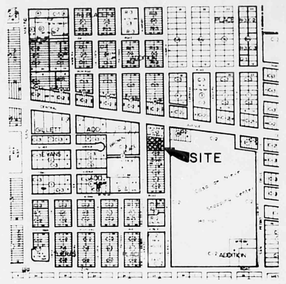
LEGEND

DESCRIPTION	NEW	EXISTING
CONTOURS	88	88
SPOT ELEVATION	× 88.8	× 88.8
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		
STORM DRAIN MANHOLE AND LINE	SD	SD
SANITARY SEWER MANHOLE AND LINE	SAS	SAS
FIRE HYDRANT AND WATER LINE	W	W
REDUCERS		
WATER VALVES	GATE / BUTTERFLY	GATE / BUTTERFLY
WATER CONNECTIONS		
WATER JOINTS		
CONCRETE		EXISTING N.G.
GAS LINE	G	G
UNDERGROUND TELEPHONE	TEL	TEL
CABLE TELEVISION	CATV	CATV
POWER/TELEPHONE POLE	PP	PP
UNDERGROUND ELECTRICAL	ELEC	ELEC
CURB ELEVATION	TC 1088.28 FL 1087.78	TC 1088.28 FL 1087.78
HYDROLOGICAL ANALYSIS POINT	AP	
DETAIL REFERENCE	1/D1	
KEYED NOTES	1	
CITY ABQ. DETAIL REFERENCE	1	

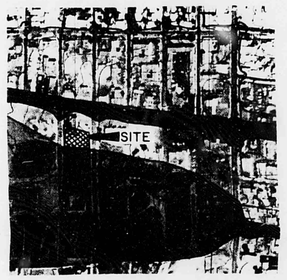
LEGAL DESCRIPTION:

LOTS 9 THRU 14 AND 19 THRU 23 OF BLOCK 37 OF TIJERAS PLACE ADDITION, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

VICINITY MAP *ZONE ATLAS MAP NO.*



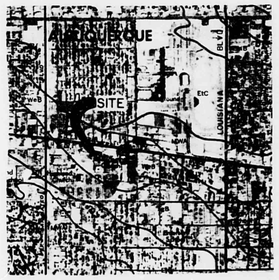
FLOOD HAZARD MAP & OFFSITE FLOWS *FROM F.E.M.A. MAP NO.*



SCALE: 1" = 500'

NOTE: MAJOR CITY STORM DRAIN SYSTEMS HAVE BEEN INSTALLED IN THIS AREA

SOILS MAP *FROM SOIL SURVEY, BERN. CO. U.S.D.A., S.C.S.*



SCALE: 1" = 2000'

HYDROLOGY

APB	DA acres	SOILS TYPE	LENGTH feet	HEIGHT feet	% IMP	C	CN	TC min	P2 in	P10 in	P100 in	I2 in/hr	I10 in/hr	I100 in/hr	V2 cu ft	V10 cu ft	V100 cu ft	Q2 cfs	Q10 cfs	Q100 cfs
Existing Hydrologic Conditions																				
1	0.84	B	200	4	0	0.40	70	10.00	1.02	1.51	2.70	2.16	3.19	4.86	14	201	846	0.6	0.9	1.2
Developed Hydrologic Conditions																				
1	3.14	B	180	4	20	0.39	61	10.00	1.02	1.51	2.70	2.16	3.19	4.86	0	4	70	0.1	0.2	0.3
2	0.50	B	40	1	85	0.84	92	10.00	1.02	1.51	2.70	2.16	3.19	4.86	767	1490	2757	0.9	1.4	2.1

SOILS INFORMATION *FROM SOIL SURVEY, BERNALILLO CO. 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, LEVEES, AND OTHER EMBANKMENTS	
*Wink: WeB, WeB, WM. For Embudo part of WeB, see Embudo series; for Madurez part of WM, see Madurez series.	Slight	Severe: seepage.	Slight	Slight	Severe: seepage.	Slight	Fair: low strength.	Unsuitable	Unsuitable	Good	Seepage	Piping, erodes easily	B

WeB—Wink-Embudo complex, 0 to 5 percent slopes. This mapping unit is about 65 percent a Wink fine sandy loam that has 1 to 5 percent slopes and 25 percent Embudo gravelly fine sandy loam, 0 to 5 percent slopes.

The Wink soil is on slight rises and ridges. It has a profile similar to that described as representative of the series, but it is alkaline and has a pale brown fine sandy loam surface layer about 4 inches thick and a strongly alkaline clay loam substratum below a depth of 40 inches. On about 70 percent of the acreage of Wink soil, the content of exchangeable sodium is more than 15 percent. The Embudo soil is in shallow depressions. It has a profile similar to that described as representative of the Embudo series, but the surface layer is yellowish brown gravelly fine sandy loam about 8 inches thick. On both soils, runoff is medium and the hazard of water erosion is moderate.

Included in this unit in mapping are areas of Madurez, Tijeras, and Kokan soils, which make up about 10 percent of the unit.

This mapping unit is used for community development, watershed, and wildlife habitat. Flooding and poor compaction are potential problems where this mapping unit is used for community development. Dryland capability subclass VIIe; native plant community 4.

NO.	REVISIONS	BY	DATE

RECEIVED JUL 06 1987 HYDROLOGY SECTION

SHERWIN WILLIAMS
GRADING & DRAINAGE PLAN

JESSE A. MAY III — NEW MEXICO — 9726 — REGISTERED PROFESSIONAL ENGINEER

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
5643 Paradise Blvd. N.W.
Albuquerque, New Mexico 87114

Designed: DLS-BRG	Drawn: BRG	Checked: CME	Sheet 1 of 1
Job No: 708601	Date: JULY, 1987		

TEXT

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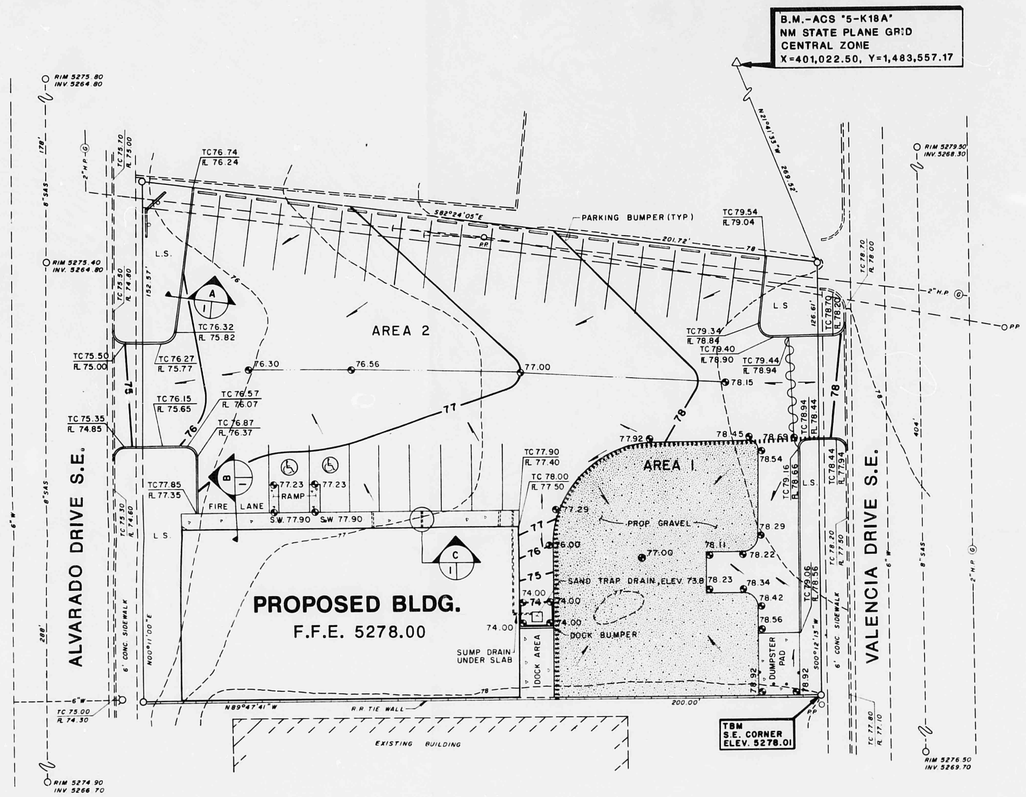
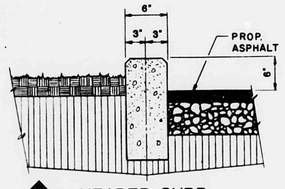
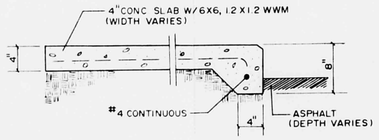
20 15 10 5 0 20 40
Scale 1"=20' Feet

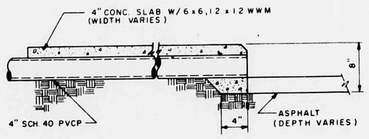




A HEADER CURB
N.T.S.



B SIDEWALK DETAIL
N.T.S.



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LEGEND

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DRAINAGE DIVIDE		
WATER BLOCK		
DIRECTION OF FLOW		
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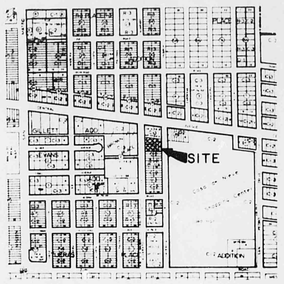
LANDSCAPING	L.S.	L.S.
RETAINING WALL		
GARDEN WALL		
SWALE		
PROPERTY LINE		
FENCE		
CATCH BASIN		
STORM DRAIN MANHOLE AND LINE	S0	S0
SANITARY SEWER MANHOLE AND LINE	S45	S45
FIRE HYDRANT AND WATER LINE		
REDUCERS		
WATER VALVES	GATE / BUTTERFLY	GATE / BUTTERFLY
WATER CONNECTIONS		
WATER JOINTS		
CONCRETE		EXISTING C.G.
GAS LINE	G	G
UNDERGROUND TELEPHONE	UT	UT
CABLE TELEVISION	UT	UT
POWER/TELEPHONE POLE	PP	PP
UNDERGROUND ELECTRICAL	UE	UE
CURB ELEVATION	TC 5088.28 FL 5087.78	TC 5088.28 FL 5087.78
HYDROLOGICAL ANALYSIS POINT	AP	AP
DETAIL REFERENCE		
KEYED NOTES	1	1
CITY ABG. DETAIL REFERENCE	A	A

LEGAL DESCRIPTION:

LOTS 9 THRU 14 AND 19 THRU 23 OF BLOCK 37 OF TIJERAS PLACE ADDITION, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

VICINITY MAP ZONE ATLAS MAP NO.



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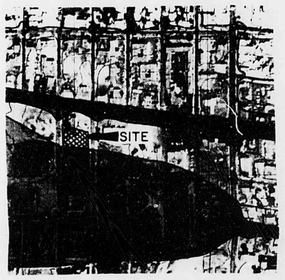

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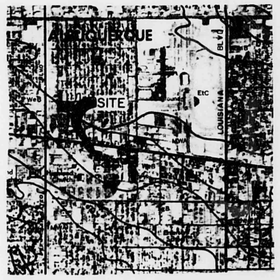
SOILS MAP FROM SOIL SURVEY, BERN. CO. U.S.D.A., S.C.S.



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HYDROLOGY

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NO.	REVISIONS	BY	DATE

RECEIVED JUL 06 1987 HYDROLOGY SECTION

JESSE A. MOY III NEW MEXICO 9729 REGISTERED PROFESSIONAL ENGINEER

SHERWIN WILLIAMS
GRADING & DRAINAGE PLAN

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
5643 Paradise Blvd. N.W.
Albuquerque, New Mexico 87114

Designed: DLS-BFC	Drawn: BRG	Checked: CME	Sheet 1 of 1
Job No: 708601	Date: JULY, 1987		