County of Bernalillo

State of New Mexico

MARK CARRILLO, ASSESSOR

JUDY D. WOODWARD, CLERK

ORLANDO VIGIL, TREASURER

JOE BOWDICH, SHERIFF

IRA ROBINSON, PROBATE JUDGE

BOARD OF COUNTY COMMISSIONERS BARBARA J. SEWARD, CHAIR

DISTRICT 4

TOM RUTHERFORD, VICE CHAIR

DISTRICT 3

KEN SANCHEZ, MEMBER

DISTRICT 1

STEVE D. GALLEGOS, MEMBER

DISTRICT 2

LES HOUSTON, MEMBER

DISTRICT 5

JUAN R. VIGIL, COUNTY MANAGER

2400 BROADWAY, S.E. ALBUQUERQUE, NEW MEXICO 87102 PUBLIC WORKS (505) 848-1500

November 30, 2000

Levi Valdez, PE 1428 Lafayette NE Albuquerque, NM 87106

Re:

Grading and Drainage Plan for Northerly 3 Acres of Parcel D, Lands of

Marian G. Malcolm, Canon de Carnue Grant (L24/D4) (PWDN 152)

Engineer's Stamp dated 10-31-00

Dear Mr. Valdez,

Based upon the information provided in your submittal dated 11-6-00, the above referenced plan is approved for Grading Permit. Prior to Building Permit, an updated drainage plan will be required.

If you have any questions, you can contact me at 924-3986.

Sincerely, radles L. Brighern

Bradley L. Bingham, PE

City/County Floodplain Administrator (Acting)

C:

Lynn Mazur, AMAFCA

David Lorenzo, BCPW

file

	Opening.	FA
	BERNALILLO COUNTY	PWD SUBMITTAL
		for all PWD applications EXCEPT Street Excavation RPAN BING-HAM
	RESUBMITTAL OF THE RESUBMITTAL	13/1/10 31
	FINAL SIGNOFF TODAY'S DATE: 10-31-00	CASE NO: PWDN 152
OWNER	OWNER FELIX RABADI PHONE 266-2221	
Ó	MAILING ADDRESS 118 WYOMING BLYD. S.E. CITY, ALBUQ. ZIP 8.71	23
,	AGENT/ LEVIJ. YALDEZ, P.E. PHONE 505-265	-9612
GENT	MAILING 1428 LAFAYETTE DR. N.E. CITY ALBUR ZIP 8	1108
AĞ	STATE EXP LICENSE NO. DATE VOLUME CLASS	
	ARCHITECTIENGINEER LICENSE NO. N.M.P.E. 5	693-PHONE 265-9612
z	SITE ADDRESS / DIRECTIONS INTERSTATE HWY. 40 SOUTH FRONTAGE	ZONE ATLAS NO.: 1-24
TIO	ROAD AT CARNUEL EXIT.	
RMA	LEGAL DESCRIPTION NORTHERLY 3.0 + ACRES OF PARCEL" D", L	LNDS OF MARIAN G.
INFORMATION	MALCOLM, CAÑON DE CARNUE GRANT	SIZE: 3.0 ACRES +
SITE		COPOSED GRAPING ONLY, O BUILDINGS PROPOSED.
	1-024-055-230-645-201	$- 4\cdot Q $
1	TYPE OF SUBMITTAL	i de la compania del compania del compania de la compania del compania del compania de la compania del compania
1. 1	☐ REPLAT ☐ TRAFFIC IMPA	CT ANALYSIS / TRAFFIC STUDY
	☐ MINOR SUBDIVISION ☐ INFRASTRUCT	JRE LIST / DESIGN REVIEW
	☐ MAJOR SUBDIVISION ☐ SPECIAL USE P	ERMIT
	☐ CONSTRUCTION DRAWINGS ☐ BARRICADING	5 7 5
	GRADING & DRAINAGE PLAN	M B C B U L IN
	☐ AS-CONSTRUCTED GRADING & DRAINAGE PLAN ☐ INSPECTION	NOV 0 6 2000
	☐ VARIANCE REQUEST ☐ OTHER (Specify	/· [] [] · []
	LAND DIVISION	HYDROLOGY SECTION
1	The issuance of a permit or a review or approval of plan specifications, computations, and shop drawings, sha of any variance or violation of any of the provisions of any COUNTY or STATE codes, ordinances, standards approval of plans, specifications, computations, and shop drawings prevent any authorized COUNTY represer requiring the correction of errors in said plans, specifications, computations, or shop drawings or from stoppin thereunder when in violation of any COUNTY or STATE codes, ordinances, standards, or policies.	, or policies. Nor shall such issuance of a permit or native or COUNTY inspector form thereafter
	A. n. In.	- -
	Owner Agent Contractor Signature Contractor Signature	Date 10-31-00
	BERNALILLO COUNTY USE ONLY	ser sur
Z	C/R's:	TOTAL FEE
COUN		Receipt No.
\mathcal{O}		Received By

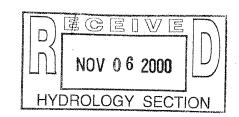
Tijeras Arroyo Worksheet for Irregular Channel

SECTION "A"

Project Description			
Project File	c:\haestad\fmw\montoya.fm2		
Worksheet	Section 'A'		
Flow Element	Irregular Channel		
Method	Manning's Formula		
Solve For	Water Elevation		

P			
Input Data			
Channel Slope	0.0160	000 ft/ft	
Elevation range	: 5,696.30 ft to 5,725.	.00 ft.	
Station (ft)	Elevation (ft)	Start Station	End Station
0.00	5,710.00	0.00	240.00
47.00	5,705.00		
93.00	5,700.00		
126.00	5,697.00		
150.00	5,696.30		
164.00	5,697.00		·
184.00	5,700.00		
198.00	5,705.00		
207.00	5,710.00		
213.00	5,715.00		
229.00	5,720.00	·	
240.00	5,725.00		
Discharge	18,000.00	cfs	

Results		
Wtd. Mannings Coefficient	0.055	
Water Surface Elevation	5,708.46	ft
Flow Area	1,401.53	ft²
Wetted Perimeter	192.37	ft
Top Width	189.77	ft
Height	12.16	ft
Critical Depth	5,707.45	ft
Critical Slope	0.023651	ft/ft
Velocity	12.84	ft/s
Velocity Head	2.56	ft
Specific Energy	5,711.02	ft
Froude Number	0.83	
Flow is subcritical.		

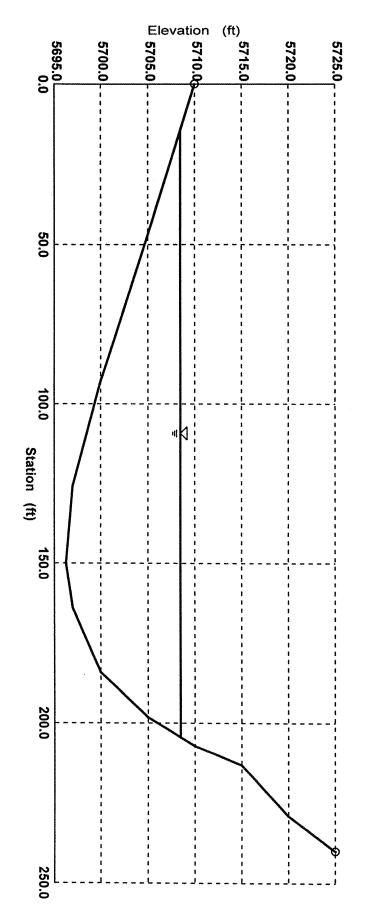


Roughness 0.055

Cross Section
Cross Section for Irregular Channel
SECTION "A"

Solve For	Method	Flow Element	Worksheet	Project File	Project Description
Water Elevation	Manning's Formula	Irregular Channel	Section 'A'	c:\haestad\fmw\montoya.fm2	on

Discharge	Water Surface Elevation	Channel Slope	Wtd. Mannings Coefficient	Section Data
18,000.00	5,708.46	0.016000 ft/ft	0.055	
cfs	#	00 ft/ft		:



Tijeras Arroyo Worksheet for Irregular Channel SECTION "B"

Project Descript	ion
Project File	c:\haestad\fmw\montoya.fm2
Worksheet	Section 'B'
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

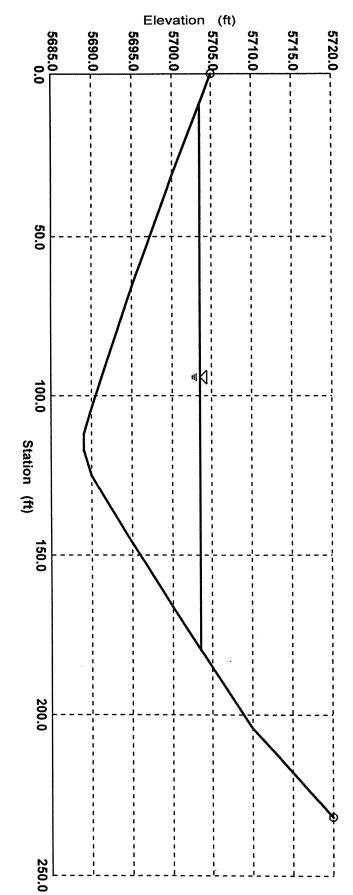
Input Data				
*				
Channel Slope	0.0160	00 ft/ft		
Elevation range	e: 5,689.00 ft to 5,720.	00 ft.		
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	5,705.00	0.00	232.00	0.055
31.00	5,700.00			
66.00	5,695.00			
104.00	5,690.00			
112.00	5,689.00			
117.00	5,689.00			
125.00	5,690.00			
146.00	5,695.00			
166.00	5,700.00			
185.00	5,705.00			
204.00	5,710.00			
218.00	5,715.00			
232.00	5,720.00			
Discharge	18,000.00	cfs		

Results		
Wtd. Mannings Coefficient	0.055	
Water Surface Elevation	5,703.54	ft
Flow Area	1,343.79	ft²
Wetted Perimeter	173.17	ft
Top Width	170.41	ft
Height	14.54	ft
Critical Depth	5,702.50	ft
Critical Slope	0.023177	ft/ft
Velocity	13.39	ft/s
Velocity Head	2.79	ft
Specific Energy	5,706.33	ft
Froude Number	0.84	
Flow is subcritical.		

Cross Section
Cross Section for Irregular Channel
SECTION "B"

Solve For	Method	Flow Element	Worksheet	Project File	Project Description
Water Elevation	Manning's Formula	Irregular Channel	Section 'B'	c:\haestad\fmw\montoya.fm2	n

Discharge	Water Surface Elevation	Channel Slope	Wtd. Mannings Coefficient	Section Data
18,000.00	5,703.54	0.016000 ft/ft	0.055	
cfs	Ħ	00 ft/ft		

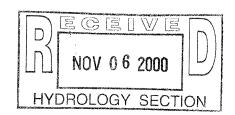


SECTION "C" Worksheet for Irregular Channel

Project Description			
Project File	c:\haestad\fmw\montoya.fm2		
Worksheet	Section C		
Flow Element	Irregular Channel		
Method	Manning's Formula		
Solve For	Water Elevation		

Input Data				
Channel Slope	0.0160	00 ft/ft		
Elevation range	: 5,693.50 ft to 5,715.	.00 ft.		
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	5,710.00	0.00	297.00	0.055
32.00	5,705.00	,		
75.00	5,700.00			
126.00	5,695.00			
140.00	5,694.00			
160.00	5,693.50			
176.00	5,694.00			
192.00	5,695.00			
200.00	5,696.00			
208.00	5,700.00			
240.00	5,705.00			
276.00	5,710.00			
297.00	5,715.00			
Discharge	18,000.00	<u>cfs</u>		

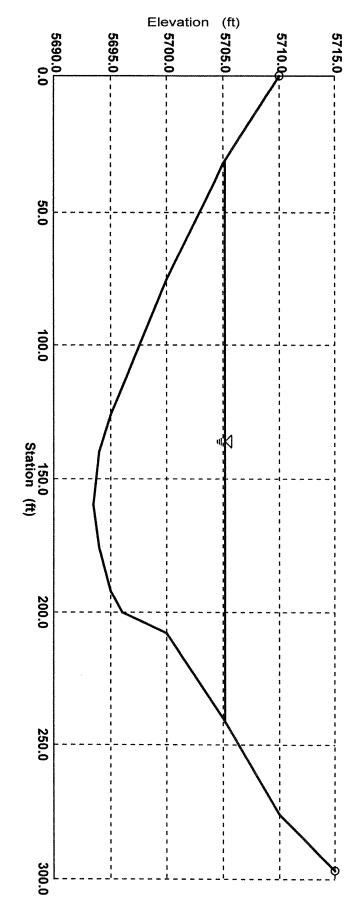
Results		
Wtd. Mannings Coefficient	0.055	
Water Surface Elevation	5,705.17	ft
Flow Area	1,458.13	ft²
Wetted Perimeter	212.38	ft
Top Width	210.35	ft
Height	11.67	ft
Critical Depth	5,704.16	ft
Critical Slope	0.02403	34 ft/ft
Velocity	12.34	ft/s
Velocity Head	2.37	ft
Specific Energy	5,707.54	ft
Froude Number	0.83	
Flow is subcritical.		



Cross Section
Cross Section for Irregular Channel

Solve For	Method	Flow Element	Worksheet	Project File	Project Description
Water Elevation	Manning's Formula	Irregular Channel	Section C	c:\haestad\fmw\montoya.fm2	ה

Wtd. Mannings Coefficient Channel Slope Water Surface Elevation Discharge	0.055 0.016000 ft/ft 5,705.17 ft 18,000.00 cfs	00 ft/ft ft cfs
Wtd. Mannings Coefficient	0.055	
Channel Slope	0.0160	00 ft/ft
Water Surface Elevation	5,705.17	Ħ
Discharge	18,000.00	cfs



SECTION "D" Worksheet for Irregular Channel

Project Descript	ion
Project File	c:\haestad\fmw\montoya.fm2
Worksheet	Section "D"
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

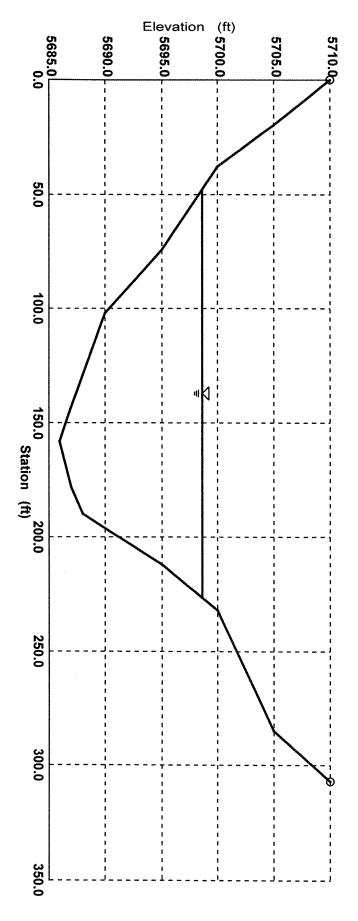
Input Data				
Channel Slope	0.0160	00 ft/ft		
Elevation range	: 5,686.00 ft to 5,710.	00 ft.		
Station (ft)	Elevation (ft)	Start Station	End Station	Roughne
0.00	5,710.00	0.00	307.00	0.05
20.00	5,705.00			
38.00	5,700.00			
74.00	5,695.00			
102.00	5,690.00			
143.00	5,687.00		•	
158.00	5,686.00			
178.00	5,687.00			
190.00	5,688.00			
196.00	5,690.00			
212.00	5,695.00			
232.00	5,700.00			
285.00	5,705.00			
307.00	5,710.00			
Discharge	18,000.00	cfs		

Results		
Wtd. Mannings Coefficient	0.055	
Water Surface Elevation	5,698.58	ft
Flow Area	1,366.48	ft²
Wetted Perimeter	180.57	ft
Top Width	178.14	ft
Height	12.58	ft
Critical Depth	5,697.55	ft
Critical Slope	0.023308	ft/ft
Velocity	13.17	ft/s
Velocity Head	2.70	ft
Specific Energy	5,701.28	ft
Froude Number	0.84	
Flow is subcritical.		

Cross Section
Cross Section for Irregular Channel

Solve For	Method	Flow Element	Worksheet	Project File	Project Description
Water Elevation	Manning's Formula	Irregular Channel	Section "D"	c:\haestad\fmw\montoya.fm2	on

Discharge	Water Surface Elevation	Channel Slope	Wtd. Mannings Coefficient	Section Data
18,000.00	5,698.58	0.016000 ft/ft	0.055	
cfs	₽	0 ft/ft		



BERNALILLO COUNTY NEW SUBMITTAL Use for all PWD applications EXCEPT Street Excavation ☐ RESUBMITTAL TODAY'S DATE: SEPTEMBER 22, 2000 ☐ FINAL SIGNOFF 201 Laur FELIX RABADI PHONE 266-2221 118 WYOMING BLYD. S.E. ADDRESS BUQ. ZIP 87123 J. YALDEZ, P.E. AGENT/ CONTRACTOR 205*-265-*9612 1428 LAFAYETTE DR. N.E. 87106 LICENSE NO DATE VOLUME CLASS LICENSE NO. N. M. P. E. 5693 PHONE 265 ARCHITECT/ENGINEER INTERSTATE HWY. 40 SOUTH FRONTAGE ZONE ATLAS NO.: 1-24 CARNUEL EXIT. LEGAL DESCRIPTION NORTHERLY 3.0 1 ACRES OF PARCEL" D", LANDS OF MARIAN G. CANON DE CAPNUE GRANT SIZE: 3.0 ACRES + PROPOSED GRADING ONLY, NONE EXISTING PROPOSED BUILDING(S): NO BUILDINGS PROPOSES -055-230-645 TYPE OF SUBMITTAL REPLAT TRAFFIC IMPACT ANALYSIS / TRAFFIC STUDY MINOR SUBDIVISION INFRASTRUCTURE LIST / DESIGN REVIEW MAJOR SUBDIVISION SPECIAL USE PERMIT CONSTRUCTION DRAWINGS BARRICADING PERMIT GRADING & DRAINAGE PLAN **BUILDING PERMIT**

OWNER

AGENT

SITE INFORMATION

AS-CONSTRUCTED GRADING & DRAINAGE PLAN

VARIANCE REQUEST

LAND DIVISION

The issuance of a permit or a review or approval of plan specifications, computations, and shop drawings, shall not be interpreted to be a permit for, or an approval of any variance or violation of any of the provisions of any COUNTY or STATE codes, ordinances, standards, or policies. Nor shall such issuance of a permit or approval of plans, specifications, computations, and snop drawings prevent any authorized COUNTY representative or COUNTY inspector form thereafter requiring the correction of errors in said plans, specifications, computations, or shop drawings or from stopping construction operations which are being carried on thereunder when in violation of any COUNTY or STATE codes, ordinances, standards, or policies.

INSPECTION

OTHER (Specify):

HYDROLOGY

SECTION

Owner	Agent	Contractor	Signature Leve J. Valley	Date	09-22-00
••••••			BERNALILLO COUNTY USE ONLY		**************************************
C/R's:				TOTAL FEE.	
				Receipt No	
			· · · · · · · · · · · · · · · · · · ·	Received Rv	

Tijeras Arroyo Worksheet for Irregular Channel

SECTION "A"

Project Descripti	on
Project File	c:\haestad\fmw\montoya.fm2
Worksheet	Section 'A'
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data				
Channel Slope	0.0160	00 ft/ft		
Elevation range	: 5,696.30 ft to 5,725.	00 ft.		
Station (ft)	Elevation (ft)	Start Station	End Station	Rough
0.00	5,710.00	0.00	240.00	0.0
47.00	5,705.00			
93.00	5,700.00			
126.00	5,697.00			
150.00	5,696.30			
164.00	5,697.00			
184.00	5,700.00			
198.00	5,705.00			
207.00	5,710.00			
213.00	5,715.00			
229.00	5,720.00			
240.00	5,725.00			
Discharge	18,000.00	cfs		

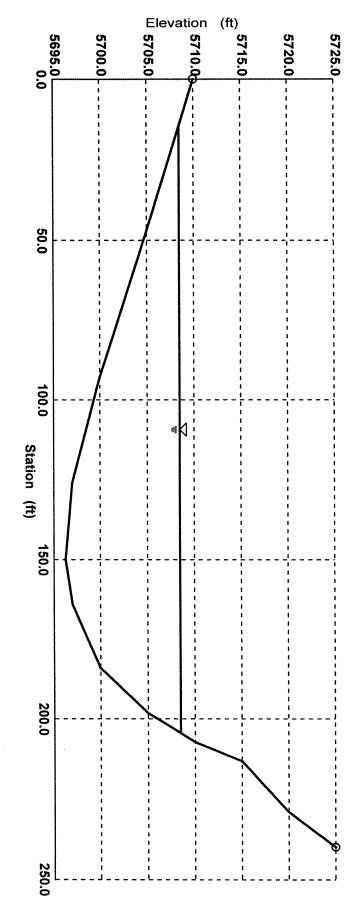
Results		
Wtd. Mannings Coefficient	0.055	
Water Surface Elevation	5,708.46	ft
Flow Area	1,401.53	ft²
Wetted Perimeter	192.37	ft
Top Width	189.77	ft
Height	12.16	ft
Critical Depth	5,707.45	ft
Critical Slope	0.023651	ft/ft
Velocity	12.84	ft/s
Velocity Head	2.56	ft
Specific Energy	5,711.02	ft
Froude Number	0.83	
Flow is subcritical.		

Cross Section
Cross Section for Irregular Channel

SECTION "A"

Solve For	Method	Flow Element	Worksheet	Project File	Project Description	
Water Elevation	Manning's Formula	Irregular Channel	Section 'A'	c:\haestad\fmw\montoya.fm2	on	

crs	18,000.00	Discharge
, 7	5,708.46	Water Surface Elevation
00 ft/ft	0.016000 ft/ft	Channel Slope
	0.055	Wtd. Mannings Coefficient
		Section Data



Tijeras Arroyo Worksheet for Irregular Channel SECTION "B"

Project Descript	ion
Project File	c:\haestad\fmw\montoya.fm2
Worksheet	Section 'B'
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

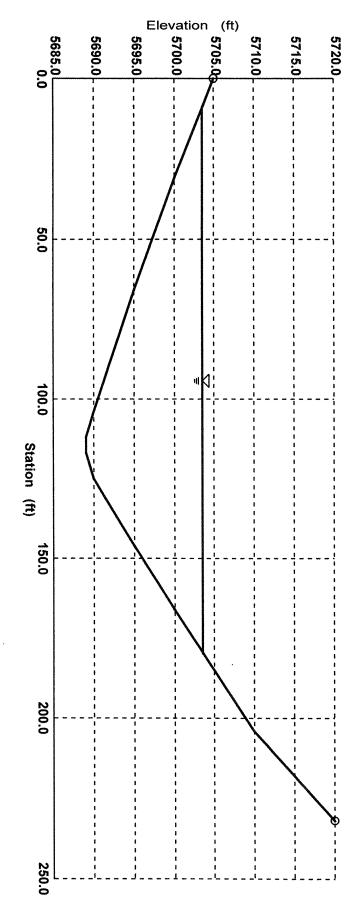
Input Data			
Channel Slope	0.01600	00 ft/ft	
Elevation range	: 5,689.00 ft to 5,720.	00 ft.	
Station (ft)	Elevation (ft)	Start Station	End S
0.00	5,705.00	0.00	232
31.00	5,700.00		
66.00	5,695.00		
104.00	5,690.00		
112.00	5,689.00		
117.00	5,689.00		
125.00	5,690.00		
146.00	5,695.00		
166.00	5,700.00		
185.00	5,705.00		
204.00	5,710.00		
218.00	5,715.00		
232.00	5,720.00		
Discharge	18,000.00	cfs	

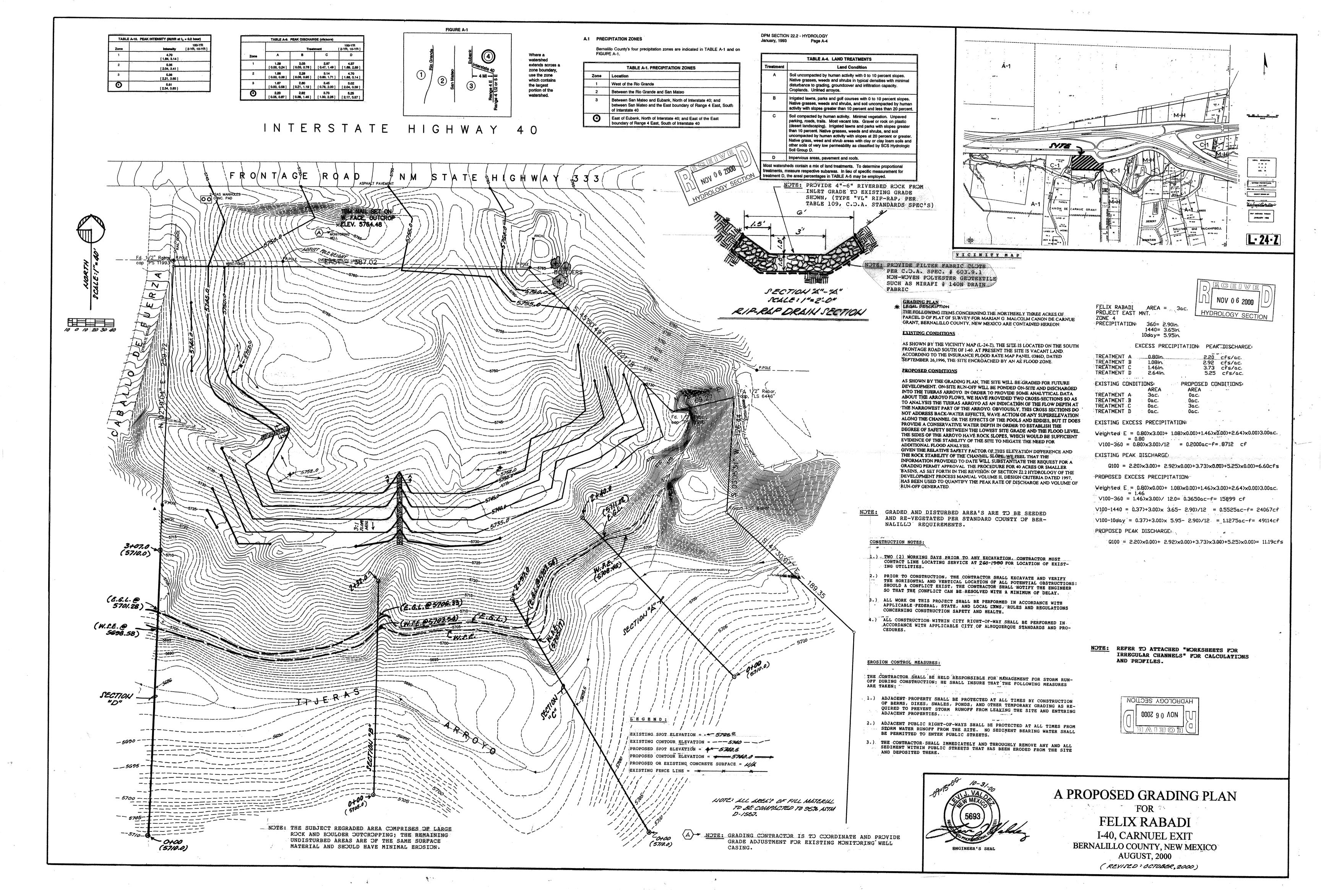
Results		
Wtd. Mannings Coefficient	0.055	
Water Surface Elevation	5,703.54	ft
Flow Area	1,343.79	ft²
Wetted Perimeter	173.17	ft
Top Width	170.41	ft
Height	14.54	ft
Critical Depth	5,702.50	ft
Critical Slope	0.023177	ft/ft
Velocity	13.39	ft/s
Velocity Head	2.79	ft
Specific Energy	5,706.33	ft
Froude Number	0.84	
Flow is subcritical.		

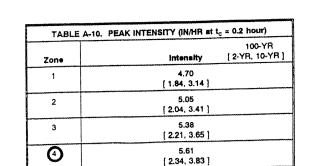
Cross Section
Cross Section for Irregular Channel
SECTION "B"

Solve For	Method	Flow Element	Worksheet	Project File	Project Description
Water Elevation	Manning's Formula	Irregular Channel	Section 'B'	c:\haestad\fmw\montoya.fm2	on

cfs	18,000.00	Discharge
₽	5,703.54	Water Surface Elevation
00 ft/ft	0.016000 ft/ft	Channel Slope
	0.055	Wtd. Mannings Coefficient
		Section Data





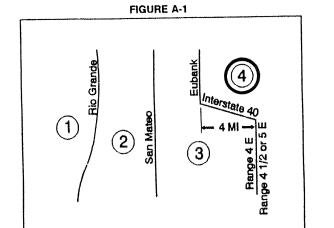


	TARLE A.O	PEAK DISCHAR	GE (cfs/acre)	
	120142	Treat		100-YR [2-YR, 10-YR]
Zone	A	В	С	D
1	1.29	2.03 { 0.03, 0.78 }	2.87 [0.47, 1.49]	4.37 [1.69, 2.89]
2	1.56	2.28 [0.08, 0.95]	3.14 [0.60, 1.71]	4.70 [1.86, 3.14]
3	1.87	2.60 [0.21, 1.19]	3.45 [0.78, 2.00]	5.02 [2.04, 3.39]
0	2.20 [0.05, 0.87]	2.92 [0.38, 1.45]	3.73 [1.00, 2.26]	5.25 [2.17, 3.57]

@5751.50

10-DAY -

PONDING



HYDROLOGY SECTION

INTERSTATE HIGHWAY 40

TOM NAIL SET ON W. FACE, OUTGROP XELEV. 5764.48

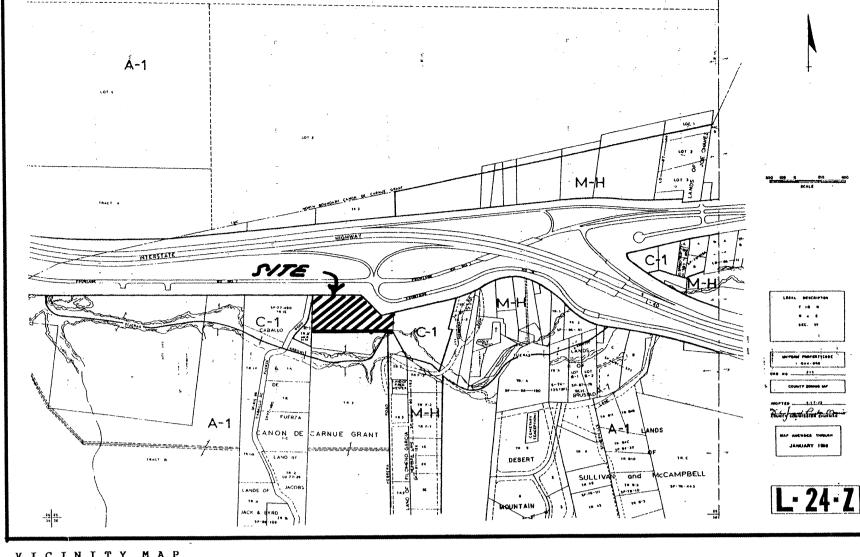
A.1 PRECIPITATION ZONES

Bernalillo County's four precipitation zones are indicated in TABLE A-1 and on FIGURE A-1.	
TABLE A-1. PRECIPITATION ZONES	

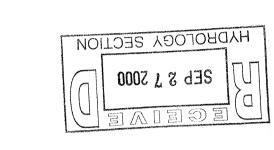
	TABLE A-1. PRECIPITATION ZONES
Zone	Location
1	West of the Rio Grande
2	Between the Rio Grande and San Mateo
3	Between San Mateo and Eubank, North of Interstate 40; and between San Mateo and the East boundary of Range 4 East, South of Interstate 40
(4)	East of Eubank, North of Interstate 40; and East of the East boundary of Range 4 East, South of Interstate 40

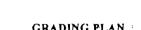
DPM SECTION 22.2 - HYDROLOGY

TABLE A-4. LAND TREATMENTS Land Condition	
Treatment	Land Condition
Α	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundcover and infiltration capacity. Croplands. Unlined arroyos.
В	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent
С	Soil compacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and roofs.
treatments.	heds contain a mix of land treatments. To determine proportional measure respective subareas. In lieu of specific measurement for the areal percentages in TABLE A-5 may be employed.



VICINITY MAP





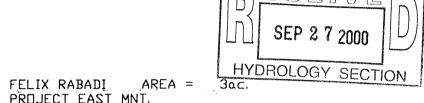
THE FOLLOWING ITEMS CONCERNING THE NORTHERLY THREE ACRES OF PARCEL D OF PLAT OF SURVEY FOR MARIAN G MALCOLM CANON DE CARNUE GRANT, BERNALILLO COUNTY, NEW MEXICO ARE CONTAINED HEREON:

AS SHOWN BY THE VICINITY MAP (L-24-Z), THE SITE IS LOCATED ON THE SOUTH FRONTAGE ROAD SOUTH OF 1-40. AT PRESENT THE SITE IS VACANT LAND. ACCORDING TO THE INSURANCE FLOOD RATE MAP PANEL 0386D, DATED SEPTEMBER 26,1996, THE SITE ENCROACHED BY AN AE FLOOD ZONE.

PROPOSED CONDITIONS

AS SHOWN BY THE GRADING PLAN, THE SITE WILL BE GRADED FOR FUTURE DEVELOPMENT. ON-SITE RUN-OFF WILL BE PONDED ON-SITE AND DISCHARGED INTO THE TIJERAS ARROYO. IN ORDER TO PROVIDE SOME ANALYTICAL DATA ABOUT THE ARROYO FLOWS, WE HAVE PROVIDED TWO CROSS-SECTIONS SO AS TO ANALYSIS THE TUERAS ARROYO AS AN INDICATION OF THE FLOW DEPTH AT THE NARROWEST PART OF THE ARROYO. OBVIOUSLY, THIS CROSS SECTIONS DO ALONG THE CHANNEL OR THE EFFECTS OF THE POOLS AND EDDIES, BUT IT DOES PROVIDE A CONSERVATIVE WATER DEPTH IN ORDER TO ESTABLISH THE DEGREE OF SAFETY BETWEEN THE LOWEST SITE GRADE AND THE FLOOD LEVEL THE SIDES OF THE ARROYO HAVE ROCK SLOPES, WHICH WOULD BE SUFFICIENT EVIDENCE OF THE STABILITY OF THE SITE TO NEGATE THE NEED FOR

ADDITIONAL FLOOD ANALYSIS GIVEN THE RELATIVE SAFETY PACTOR OF THIS ELEVATION DIFFERENCE AND THE ROCK STABILITY OF THE CHANNEL SLOPE, WE FEEL THAT THE INFORMATION PROVIDED TO DATE WILL SUBSTANTIATE THE REQUEST FOR A GRADING PERMIT APPROVAL THE PROCEDURE FOR 40 ACRES OR SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL VOLUME II, DESIGN CRITERIA DATED 1997, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED



PROJECT EAST MNT. PRECIPITATION: 360= 2.90in. 1440 = 3.65 ln.

TREATMENT A

TREATMENT C

TREATMENT D

10day= 5.95in. EXCESS PRECIPITATION: PEAK DISCHARGE:

2.20 cfs/ac.

2.92 cfs/ac 3.73 cfs/ac 1.08in. TREATMENT B TREATMENT C 5.25 cfs/ac. TREATMENT D 2.64ln. PROPOSED CONDITIONS: EXISTING CONDITIONS: TREATMENT A TREATMENT B

EXISTING EXCESS PRECIPITATION:

Weighted E = 0.80)×3.00)+ 1.08)×0.00)+1.46)×0.00)+2.64)×0.00)3.00 α C. V100-360 = 0.80 \times 3.00V12 = 0.2000 α c-f= 8712 cf

EXISTING PEAK DISCHARGE

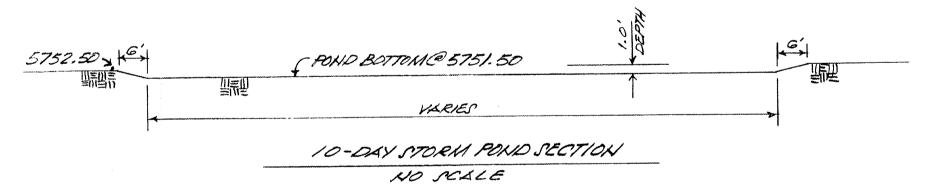
 $Q100 = 2.20 \times 3.00 + 2.92 \times 0.00 \times 3.73 \times 0.00 \times 5.25 \times 0.00 = 6.60 \text{cfs}$

PROPOSED EXCESS PRECIPITATION Weighted E = $0.80 \times 0.00 \times 1.08 \times 0.00 \times 1.46 \times 3.00 \times 2.64 \times 0.00 \times 2.64 \times 0$

 $\sqrt{100-360} = 1.46 \times 3.00 \times 12.0 = 0.3650 \alpha - f = 15899 cf$ V100-1440 = 0.37)+3.00× 3.65- 2.90V12 = 0.5525ac-f= 24067cf

V100-10day = 0.37>+3.00>x 5.95- 2.90>/12 = 1.1275ac-f= 49114cf PROPOSED PEAK DISCHARGE

 $Q100 = 2.20 \times 0.00) + 2.92 \times 0.00) + 3.73 \times 3.00) + 5.25 \times 0.00) = 11.19 cfs$

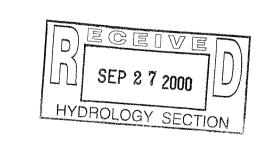


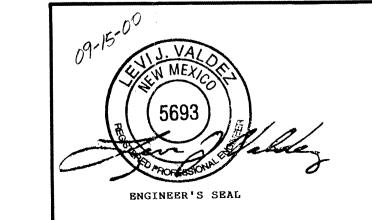
REQ. PONDING = 40, 402.0 CU. FT. PROVIDED PONDING = 40,500.0 CU.FT. POND SIZE: 40,500.0 SQ. FT. X 1.0'DEPTH

EROSION CONTROL MEASURES:

(G:1 SIDE NOTES) THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT FOR STORM RUN-OFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES

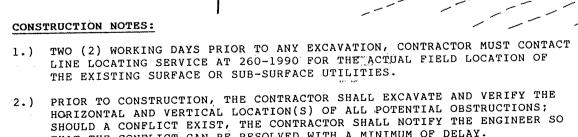
- 1.) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS RE-QUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.
- 2.) ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREETS.
- 3.) THE CONTRACTOR SHALL IMMEDIATELY AND THROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE





A PROPOSED GRADING PLAN FELIX RABADI

I-40, CARNUEL EXIT BERNALILLO COUNTY, NEW MEXICO AUGUST, 2000



THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY. 3.) ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CON-CERNING CONSTRUCTION SAFETY AND HEALTH.

4.) ALL CONSTRUCTION WITHIN PUBLIC STREET RIGHT-OF-WAY(S) SHALL BE PERFORM-ED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE/BERNALILLO COUNTY STANDARDS AND PROCEDURES.

LEGEND: EXISTING SPOT ELEVATION = . 5725 EXISTING CONTOUR ELEVATION = --- 5740 ---PROPOSED SPOT ELEVATION = \$ 5740.5 PROPOSED CONTOUR ELEVATION = 5740.0 PROPOSED OR EXISTING CONCRETE SURFACE = WA EXISTING FENCE LINE = * * * GENERAL NOTES: 1.) NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY. 2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD OTHER THAN SHOWN HEREON SEP 2 7 2000