

Drainage Report

for

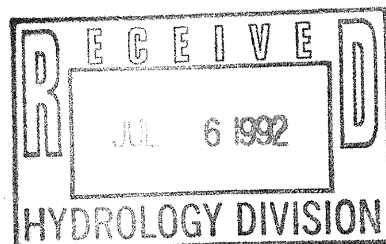
Lot 19, Block 10, Tract 2, Unit 1

North Albuquerque Acres

Submitted to
Bernalillo County Public Works



25 June 1992



**WILSON
& COMPANY**

DRAINAGE REPORT KORMAN RESIDENCE LOT 19, NORTH ALBUQUERQUE ACRES

Site Location

The site is located between Wilshire Avenue and Signal Avenue about one mile west of Tramway Blvd. The site is currently vacant. The site generally slopes from east to west at slopes of about 4% to Browning Street.

Methodology

For this site, the April 1990 Bernalillo County Drainage Ordinance was used to calculate peak runoff. The site is located in precipitation zone 4 as determined from Figure A, and has a 100-year 6-hour storm event of 2.90 inches.

Existing Conditions

The La Cueva Tributary B Arroyo, which has a 100 year flow of 1150 cfs according to the "Review and Refinement of the Northeast Heights Drainage Management Plan" by Espey-Huston in May 1980, is approximately 70 feet north of the site north boundary. A southern tributary (C) of the La Cueva Arroyo runs across the southern portion of the lot with a 100 year flow of 740 cfs. Since the lot is currently vacant, land treatment "C" was selected. This yields 1.13 inches of excess precipitation. The runoff volume for the lot is 0.083 acre-feet and the peak discharge is 3.5 cfs.

Developed Conditions

The site will be used as a lot for a single family residential home. Approximately 22% of the land will now be impervious or land treatment "D" and will produce excess precipitation of 1.45 inches. The runoff volume for the developed site is 0.107 acre-feet and the peak discharge is 3.83 cfs.

Manning's roughness coefficient (n) was calculated for the channel through the property using equation 3.9 in the Draft Sediment and Erosion Design Guide for AMAFCA by RCE dated March 1992. The Manning's n for the arroyo is .035. For every hundred cfs of flow, the house must be set back 6 feet from a floodplain. For this reason, the house is set back 45 feet (7.4×6) from the edge of the floodplain on the property and also more than 69 (11.5×6) feet from the La Cueva Arroyo floodplain boundary north of the property. The finished floor is set at the Energy Grade Line plus the required Freeboard according to section 22.3 of the DPM at cross-section 5. The pad is oriented at 45° angle to the direction of flow to allow water to flow around the house (like a boat). Stem walls (6.5 feet in depth) are placed along the northeast and southeast sides of the house to protect the foundation against scour. There are no doors or full length windows on these sides of the house.

The HEC-2 computer program was used to determine the water surface profile through the property in existing and developed conditions and for the La Cueva Tributary B located north of the property. Cross-sections at eight different locations 275 feet east of the eastern property line to the western property line were plotted. The elevations at each cross-section along with the 100-year flow were then inputted into the HEC 2

program. It was determined that the flow through the property is supercritical during existing conditions and during developed conditions. At cross-section 5 (at the upstream end of the pad) the Froude number is 1.11. The water surface profile at each of the eight cross-sections was plotted. It was determined that the water inundates the lot. The energy grade line at cross-section 5 (5838.52) plus freeboard (2.1 feet) was used to set the finished floor elevation. According to the water surface profile run for the developed case the depth of flow at the western property line decreases from 33.17 to 33.07 and the energy grade line increases slightly from 33.64 to 33.70. Therefore there are only slight differences in flow characteristics from existing conditions to developed conditions. A water surface profile for the La Cueva Tributary B north of the property was computed to determine if stormflows impacted the site. From the analysis it appears that flows from the La Cueva Tributary B do not impact the property.

Local scour around the eastern corner of the house was calculated using eq.(3-9), Drainage and Flood Control Design Guidelines and Criteria, Simons and Li, June, 1981: $Y_s/Y=4(Fr)^{0.33}$ where Y_s is the equilibrium scour depth, Y is the upstream flow depth, and Fr is the upstream Froude number. The values at cross-section 5, (which goes through the house) were used in the calculation. The depth was 1.24 feet, the velocity was 4.29 fps, and the Froude number was 1.11. These values gave a scour depth of 5.14 feet. Also Contraction Scour was calculated from equation 3.37 in the Draft Sediment and Erosion Design Guide and from the water surface depths in existing and developed conditions at cross-section 6 which runs through the middle of the structure. The calculation using equation 3.37 yielded 1.24 feet of contraction scour. The total scour (local + contraction) is 6.34 feet. Therefore a 5 foot stem wall along the northeastern and southeastern walls of the house will be installed to protect the foundation against scour.

COMP.

**WILSON
& COMPANY**

LOC.

FILE

CK.

PROJ.

SHEET

DATE

SUBJ.

OF

COMPUTE MANNING'S n FOR CHANNEL

$$n = (n_b + n_1 + n_2 + n_3 + n_4)m$$

$$n_b = .022 \quad \text{bed material} = 0.5 \text{ mm median}$$

$$n_1 = .008 \quad \text{moderate Irregularity}$$

$$n_2 = .001 \quad \text{Alternating Occasionally}$$

$$n_3 = .004 \quad \text{obstructions negligible}$$

$$n_4 = .004 \quad \text{Vegetation small}$$

$$m = 1.0 \quad \text{Minor sinuosity}$$

$$n = .039 = \text{USE } .035$$

COMPUTE THE FREEBOARD FOR THE CHANNEL

$$\text{FREEBOARD} = 2.0 + 0.025 V \sqrt[3]{d}$$

$$\text{AT X-SECTION 5} \quad V = 4.29 \text{ FPS} \quad d = 1.24$$

$$\begin{aligned} \text{FREEBOARD} &= 2.0 + 0.025 (4.29) \sqrt[3]{1.24} \\ &= 2.1 \text{ FT} \end{aligned}$$

$$\text{AT X-SECTION 5} \quad \text{WSEL} = 38.24$$

$$\text{ENERGY GRADE} = 38.52$$

$$\text{EG} + \text{FREEBOARD} = \text{FF ELEVATION}$$

$$38.52 + 2.1 = 40.6 \text{ FINISH FLOOR}$$

COMP.

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LOC.

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PROJ.

SHEET

DATE

SUBJ.

OF

CALCULATE LOCAL SCOUR

AT X-SECTION 5

$$A = 172.35 \text{ SF}$$

$$T = 373.50 \text{ FT}$$

$$V = 4.29 \text{ FPS}$$

$$Y_1 = 1.29 \text{ FT}$$

$$D = \frac{A}{T} = \frac{172.35}{373.50} = 0.4614$$

$$F = \frac{V}{\sqrt{gD}} = \frac{4.29}{\sqrt{32.2(0.4614)}} = 1.11$$

DEPTH OF SCOUR

SIMONS + LI, EQ 3-9

$$\frac{Y_s}{Y_1} = 4 F^{0.33}$$

$$Y_s = 4(1.11)^{0.33} \cdot 1.29$$

$$Y_s = 5.14 \text{ FT}$$

CALCULATE CONTRACTION SCOUR

$$\frac{Y_2}{Y_1} = \left(\frac{Q_{m2}}{Q_{m1}} \right)^{0.7} \left(\frac{W_1}{W_2} \right)^{K_1} \left(\frac{n_2}{n_1} \right)^{K_2}$$

$$Q_{m1} = Q_{m2} = 740 \text{ CFS}$$

$$W_1 = 300$$

$$Y_1 = 0.87$$

$$W_2 = 200$$

$$n_1 = 0.035$$

$$n_2 = 0.055 \text{ (increased for obstruction)}$$

$$K_1 = 0.64$$

$$K_2 = 0.21$$

$$Y_2 = 0.87(1) \left(\frac{300}{200} \right)^{0.64} \left(\frac{0.055}{0.035} \right)^{0.21} = 1.29$$

COMP.

**WILSON
& COMPANY**

LOC.

FILE

CK.

PROJ.

SHEET

DATE

SUBJ.

OF

From HEC 2 runs

$$Y_2 = 1.37 \quad Y_1 = 0.87$$

$$Y_s = 1.37 - 0.87 = 0.5 \text{ FT}$$

TOTAL SCOUR

$$5.1 + 1.24 = 6.34 \text{ FT}$$

NEED TO PROTECT FOUNDATION TO ELEVATION

$$5840.6 - 6.34 = 5834.3$$

INSTALL A 6.5 FT STEM WALL
TO PROTECT AGAINST SCOUR

EXISTING CONDITIONS

T1	KORMAN RESIDENCE NORTH ALB ACRES									
T2	CROSS SECTIONS THROUGH PROPERTY AND UPSTREAM									
T3	FOR PREMIER HOMES									
J1	0	0	0	1	-1	0	0	740	0	0
J2	0	0	10	0	0	0	-1	0	0	
0										
J3	38	42	1	2	43	13	14	15	8	4
J3	25	26	3	75	0	0	0	0	0	
0										
J5	-10	-10								
NC	.035	.035	.035	0	0	0	0	0	0	0
X1	1	9	0	360	100.	100.	100.	0	0	
1										
GR	49.3	0	48.5	20	48.5	50	47.8	70	48.2	90
GR	47.9	125	48.1	150	50.0	300	50.0	360		
X1	2	9	0	380	135.0	135.0	135.0	0	0	1
GR	46.0	0	46.0	5.0	45.5	52.0	43.5	100	44.0	
130										
GR	44.0	160	43.9	170	46.2	300	46.0	380		
X1	3	13	0	300	40	40	40	0	0	1
GR	42.1	0	42.0	10	41.0	13	41.0	60	40.0	
85										
GR	39.0	90	39.2	120	40.0	125	40.5	180	40.0	240
GR	39.8	255	40.0	270	40.7	300				
X1	4	14	0	400	25	25	25	0	0	1
GR	40.3	0	40.2	25	40.0	45	38.9	50	40.0	
54										
GR	40.0	60	37.7	88	38.1	94	38.0	120	38.9	160
GR	37.9	260	39.0	300	39.6	330	40.0	400		
X1	5	10	0	400	50	50	50	0	0	1
GR	39.5	0	39.5	10	38.0	20	38.0	80	37.0	
100										
GR	38.0	180	37.5	300	38.0	320	38.0	380	38.4	400
X1	6	10	0	370	50	50	50	0	0	
1										
GR	38.0	0	37.8	60	36.5	70	36.8	80	36.0	100
GR	35.5	140	36.0	165	35.5	220	36.0	300	36.5	
370										
X1	7	9	0	360	40	40	40	0	0	1
GR	36.0	0	36.0	10	35.0	20	35.0	90	34.0	
105										
GR	34.0	190	32.8	255	34.0	290	36.0	360		
X1	8	15	0	340	0	0	0	0	0	1
GR	34.0	0	34.1	10	35.0	22	34.7	45	34.0	
60										
GR	34.0	95	32.5	112	33.2	122	31.7	150	32.2	160
GR	32.0	170	33.2	185	31.8	230	33.0	290	34.3	
340										
BJ										

ER

EXISTING CONDITIONS

1*****

* HEC-2 WATER SURFACE PROFILES *

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*

*

* Version 4.5.1; September 1990 *

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* RUN DATE 24JUN92 TIME 12:26:26 *

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* U.S. ARMY CORPS OF ENGINEERS

* HYDROLOGIC ENGINEERING CENTER

* 609 SECOND STREET, SUITE D

* DAVIS, CALIFORNIA 95616-4687

* (916) 756-1104

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X  X XXXXXX XXXX      XXXX
X  X X      X  X      X  X
X  X X      X          X
XXXXXX XXXX  X      XXXX XXXX
X  X X      X          X
X  X X      X  X      X
X  X XXXXXX XXXX      XXXXXX

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END OF BANNER

1

24JUN92 12:26:27

PAGE 1

THIS RUN EXECUTED 24JUN92 12:26:27

HEC-2 WATER SURFACE PROFILES

Version 4.5.1; September 1990

T1 KORMAN RESIDENCE NORTH ALB ACRES
T2 CROSS SECTIONS THROUGH PROPERTY AND UPSTREAM
T3 FOR PREMIER HOMES

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSBL	FQ
	0	0	0	1	-1	0	0	740	0	0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	0	0	10	0	0	0	-1	0	0	0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38	42	1	2	43	13	14	15	8	4
25	26	3	75	0	0	0	0	0	0

J5 LPRNT NUMSEC *****REQUESTED SECTION NUMBERS*****

-10 -10

NC	.035	.035	.035	0	0	0	0	0	0	0
X1	1	9	0	360	100.	100.	100.	0	0	1
GR	49.3	0	48.5	20	48.5	50	47.8	70	48.2	90
GR	47.9	125	48.1	150	50.0	300	50.0	360		
X1	2	9	0	380	135.0	135.0	135.0	0	0	1
GR	46.0	0	46.0	5.0	45.5	52.0	43.5	100	44.0	130
GR	44.0	160	43.9	170	46.2	300	46.0	380		
X1	3	13	0	300	40	40	40	0	0	1
GR	42.1	0	42.0	10	41.0	13	41.0	60	40.0	85
GR	39.0	90	39.2	120	40.0	125	40.5	180	40.0	240
GR	39.8	255	40.0	270	40.7	300				
X1	4	14	0	400	25	25	25	0	0	1
GR	40.3	0	40.2	25	40.0	45	38.9	50	40.0	54
GR	40.0	60	37.7	88	38.1	94	38.0	120	38.9	160
GR	37.9	260	39.0	300	39.6	330	40.0	400		

1

24JUN92 12:26:27

PAGE 2

X1	5	10	0	400	50	50	50	0	0	1
GR	39.5	0	39.5	10	38.0	20	38.0	80	37.0	100
GR	38.0	180	37.5	300	38.0	320	38.0	380	38.4	400
X1	6	10	0	370	50	50	50	0	0	1
GR	38.0	0	37.8	60	36.5	70	36.8	80	36.0	100
GR	35.5	140	36.0	165	35.5	220	36.0	300	36.5	370
X1	7	9	0	360	40	40	40	0	0	1
GR	36.0	0	36.0	10	35.0	20	35.0	90	34.0	105
GR	34.0	190	32.8	255	34.0	290	36.0	360		
X1	8	15	0	340	0	0	0	0	0	1
GR	34.0	0	34.1	10	35.0	22	34.7	45	34.0	60
GR	34.0	95	32.5	112	33.2	122	31.7	150	32.2	160
GR	32.0	170	33.2	185	31.8	230	33.0	290	34.3	340

1

CROSS SECTION 1.00

STREAM FOR PREMIER HOMES
DISCHARGE= 740.

ELEV	47.8	48.3	48.8	49.3	49.8	50.3	50.8	51.3	51.8	52.3	52.8
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STA- FEET

2	0.	.	.	X E	.	.	.	.	.	.	BANK.
	10.	.	X W	. E	.	.	.	.	.	.	.
3	20.	X	W	. E	.	.	.	.	.	.	.
	30.	X	W	. E	.	.	.	.	.	.	.
	40.	X	W	. E	.	.	.	.	.	.	.
4	50.	X	W	. E	.	.	.	.	.	.	.
	60.	X	W	. E	.	.	.	.	.	.	.
5	70.	X	W	. E	.	.	.	.	.	.	.
	80.	X	W	. E	.	.	.	.	.	.	.
6	90.	X	W	. E	.	.	.	.	.	.	.
	100.	X	W	. E	.	.	.	.	.	.	.
	110.	X	W	. E	.	.	.	.	.	.	.
7	120.	X	W	. E	.	.	.	.	.	.	.
	130.	X	W	. E	.	.	.	.	.	.	.
	140.	X	W	. E	.	.	.	.	.	.	.
8	150.	X	W	. E	.	.	.	.	.	.	.
	160.	X	W	. E	.	.	.	.	.	.	.
	170.	X	W	. E	.	.	.	.	.	.	.
	180.	X	W	. E	.	.	.	.	.	.	.
	190.	X	W	. E	.	.	.	.	.	.	.
	200.	X	W	. E	.	.	.	.	.	.	.
	210.	X	W	. E	.	.	.	.	.	.	.
	220.	XW	. E	.	.	.	.	.	.	.	.
	230.	X	. E	.	.	.	.	.	.	.	.
	240.	X	. E	.	.	.	.	.	.	.	.
	250.	.XE	.	.	.	.	.	.	.	.	.
	260.	X	.	.	.	.	.	.	.	.	.
	270.	X	.	.	.	.	.	.	.	.	.
	280.	X	.	.	.	.	.	.	.	.	.
	290.	X	.	.	.	.	.	.	.	.	.
9	300.	X	.	.	.	.	.	.	.	.	.
	310.	X	.	.	.	.	.	.	.	.	.
	320.	X	.	.	.	.	.	.	.	.	.
	330.	X	.	.	.	.	.	.	.	.	.
	340.	X	.	.	.	.	.	.	.	.	.
	350.	X	.	.	.	.	.	.	.	.	.
10	360.	X	.	.	.	.	.	.	.	.	BANK.

EL(I),STA(I)										
49.30	.00	48.50	20.00	48.50	50.00	47.80	70.00	48.20	90.00	
47.90	125.00	48.10	150.00	50.00	300.00	50.00	360.00			

1
CROSS SECTION 2.00
STREAM FOR PREMIER HOMES
DISCHARGE= 740.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	43.5	44.0	44.5	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5
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STA- FEET

3	0.	.	.	.	.	X	.	.	.	.	BANK.
	10.	.	.	.	.	X	.	.	.	.	.
	20.	.	.	.	.	X	.	.	.	.	.
	30.	.	.	.	.	X E	.	.	.	.	.
	40.	.	.	.	.	X E	.	.	.	.	.
4	50.	.	.	.	X	E	.	.	.	.	.
	60.	.	.	X	.	E	.	.	.	.	.
	70.	.	.	X	C	E	.	.	.	.	.
	80.	.	X	W	C	E	.	.	.	.	.
	90.	X	.	W	C	E	.	.	.	.	.
5	100.	X	.	W	C	E	.	.	.	.	.
	110.	X	.	W	C	E	.	.	.	.	.
	120.	X	.	W	C	E	.	.	.	.	.
6	130.	.	X	W	C	E	.	.	.	.	.
	140.	.	X	W	C	E	.	.	.	.	.
	150.	.	X	W	C	E	.	.	.	.	.
7	160.	.	X	W	C	E	.	.	.	.	.
8	170.	.	X	W	C	E	.	.	.	.	.
	180.	.	X	W	C	E	.	.	.	.	.
	190.	.	X	W	C	E	.	.	.	.	.
	200.	.	.	X W	C	E	.	.	.	.	.
	210.	.	.	X W	C	E	.	.	.	.	.
	220.	.	.	X	C	E	.	.	.	.	.
	230.	.	.	X C	E	E	.	.	.	.	.
	240.	.	.	X	E	E	.	.	.	.	.
	250.	.	.	X	E	E	.	.	.	.	.

260.	.	.	X	E	.	.	.	.	.	.
270.	.	.	.	X	E	.	.	.	.	.
280.	.	.	.	X	.	.	.	.	.	.
290.	.	.	.	.	X	.	.	.	.	.
9 300.	.	.	.	.	.	X	.	.	.	.
310.	.	.	.	.	.	X	.	.	.	.
320.	.	.	.	.	.	X	.	.	.	.
330.	.	.	.	.	.	X	.	.	.	.
340.	.	.	.	.	.	X	.	.	.	.
350.	.	.	.	.	.	X	.	.	.	.
360.	.	.	.	.	.	X	.	.	.	.
370.	.	.	.	.	.	X	.	.	.	.
10 380.	.	.	.	.	.	X	.	.	.	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

46.00	.00	46.00	5.00	45.50	52.00	43.50	100.00	44.00	130.00
44.00	160.00	43.90	170.00	46.20	300.00	46.00	380.00		

1

CROSS SECTION 3.00

STREAM FOR PREMIER HOMES

DISCHARGE= 740.

PLOTTED POINTS (BY PRIORITY)-B-BOTTOM BRIDGE,T-TOP BRIDGE,X-GROUND,W-WATER SUR,E-ENERGY GRADIENT,C-CRITICAL WSEL

ELEV	39.0	39.5	40.0	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0
------	------	------	------	------	------	------	------	------	------	------	------

STA-FEET

2 0.	.	.	.	.	.	.	X	.	.	.	BANK.
5.	.	.	.	.	.	.	X	.	.	.	.
3 10.	.	.	.	.	.	.	X	.	.	.	.
4 15.	.	.	.	.	XE	.	.	.	.	.	.
20.	.	.	.	.	XE	.	.	.	.	.	.
25.	.	.	.	.	XE	.	.	.	.	.	.
30.	.	.	.	.	XE	.	.	.	.	.	.
35.	.	.	.	.	XE	.	.	.	.	.	.
40.	.	.	.	.	XE	.	.	.	.	.	.

Year	Month	Day	Time	Location	Observer	Notes
45.	.	.	.	XE	.	.
50.	.	.	.	XE	.	.
55.	.	.	.	XE	.	.
5 60.	.	.	.	XE	.	.
65.	.	.	.	X	E	.
70.	.	.	.	X	W	E
75.	.	.	.	X	W	E
80.	.	.	.	X	W	E
6 85.	.	.	.	X	W	E
7 90.	X	.	.	W	E	.
95.	X	.	.	W	E	.
100.	X	.	.	W	E	.
105.	X	.	.	W	E	.
110.	X	.	.	W	E	.
115.	X	.	.	W	E	.
8 120.	X	.	.	W	E	.
9 125.	.	.	.	X	W	E
130.	.	.	.	X	W	E
135.	.	.	.	X	W	E
140.	.	.	.	X	W	E
145.	.	.	.	X	W	E
150.	.	.	.	X	W	E
155.	.	.	.	X	W	E
160.	.	.	.	X	W	E
165.	.	.	.	X	W	E
170.	.	.	.	X	W	E
175.	.	.	.	X	W	E
10 180.	.	.	.	X	W	E
185.	.	.	.	X	W	E
190.	.	.	.	X	W	E
195.	.	.	.	X	W	E
200.	.	.	.	X	W	E
205.	.	.	.	X	W	E
210.	.	.	.	X	W	E
215.	.	.	.	X	W	E
220.	.	.	.	X	W	E
225.	.	.	.	X	W	E
230.	.	.	.	X	W	E
235.	.	.	.	X	W	E
11 240.	.	.	.	X	W	E
245.	.	.	.	X	W	E
250.	.	.	.	X	W	E
12 255.	.	.	.	X	W	E
260.	.	.	.	X	W	E
265.	.	.	.	X	W	E
13 270.	.	.	.	X	W	E

275.	.	.	X	.	W	.E	.	.	.	.	.	.	.
280.	.	.	X	.	W	.E	.	.	.	.	.	.	.
285.	.	.	.	X	.	W	.E	.	.	.	.	.	.
290.	.	.	.	X	.	W	.E	.	.	.	.	.	.
295.	.	.	.	.	X	W	.E	.	.	.	.	.	.
14 300.	.	.	.	.	X	.E	.	.	.	.	.	.	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
42.10	.00	42.00	10.00	41.00	13.00	41.00	60.00	40.00	85.00
39.00	90.00	39.20	120.00	40.00	125.00	40.50	180.00	40.00	240.00
39.80	255.00	40.00	270.00	40.70	300.00				

CROSS SECTION 4.00
 STREAM FOR PREMIER HOMES

DISCHARGE= 740.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	37.7	38.2	38.7	39.2	39.7	40.2	40.7	41.2	41.7	42.2	42.7
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STA-FEET

2	0.	.	.	.	.	.	X	.	.	.	.	BANK.
	10.	.	.	.	.	.	X	.	.	.	.	.
3	20.	.	.	.	.	.	X	.	.	.	.	.
	30.	.	.	.	.	.	X	.	.	.	.	.
4	40.	.	.	.	.	.	X	.	.	.	.	.
6	50.	.	.	XXXXXXXXXXXXXXXXXXXX			.	.	.	.	.	.
7	60.	.	.	.	.	.	X	.	.	.	.	.
	70.	.	.	X	E	.	.	.	.	.	.	.
	80.	.	X	.	W	C	.	E	.	.	.	.
9	90.	XXXXXXXX	.	.	W	C	.	E	.	.	.	.
	100.	X	.	.	W	C	.	E	.	.	.	.
	110.	X	.	.	W	C	.	E	.	.	.	.
10	120.	X	.	.	W	C	.	E	.	.	.	.
	130.	.	X	.	W	C	.	E	.	.	.	.
	140.	.	.	X	.	W	C	.	E	.	.	.
	150.	.	.	.	X	W	C	.	E	.	.	.

11	160.	.	.	X	C	.	E	.	.	.	.	.	.	.	.	.	.	.	.
	170.	.	.	X	C	.	E	.	.	.	.	.	.	.	.	.	.	.	
	180.	.	.	X	W	C	.	E	.	.	.	.	.	.	.	.	.	.	
	190.	.	.	X	W	C	.	E	.	.	.	.	.	.	.	.	.	.	
	200.	.	.	X	W	C	.	E	.	.	.	.	.	.	.	.	.	.	
	210.	.	.	X	W	C	.	E	.	.	.	.	.	.	.	.	.	.	
	220.	.	.	X	W	C	.	E	.	.	.	.	.	.	.	.	.	.	
	230.	.	.	X	W	C	.	E	.	.	.	.	.	.	.	.	.	.	
	240.	.	.	X	W	C	.	E	.	.	.	.	.	.	.	.	.	.	
	250.	.	.	X	W	C	.	E	.	.	.	.	.	.	.	.	.	.	
12	260.	.	.	X	W	C	.	E	.	.	.	.	.	.	.	.	.	.	
	270.	.	.	X	W	C	.	E	.	.	.	.	.	.	.	.	.	.	
	280.	.	.	X	W	C	.	E	.	.	.	.	.	.	.	.	.	.	
	290.	.	.	X	W	C	.	E	.	.	.	.	.	.	.	.	.	.	
13	300.	.	.	.	X	C	.	E	.	.	.	.	.	.	.	.	.	.	
	310.	.	.	.	.	X	.	E	.	.	.	.	.	.	.	.	.	.	
	320.	.	.	.	.	X	E	.	.	.	.	.	.	.	.	.	.	.	
14	330.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	
	340.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	
	350.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	
	360.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	
	370.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	
	380.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	
	390.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	
15	400.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	BANK.	

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

40.30	.00	40.20	25.00	40.00	45.00	38.90	50.00	40.00	54.00
40.00	60.00	37.70	88.00	38.10	94.00	38.00	120.00	38.90	160.00
37.90	260.00	39.00	300.00	39.60	330.00	40.00	400.00		

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CROSS SECTION 5.00

STREAM FOR PREMIER HOMES

DISCHARGE= 740.

PLOTTED POINTS (BY PRIORITY)-B-BOTTOM BRIDGE,T-TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	37.0	37.5	38.0	38.5	39.0	39.5	40.0	40.5	41.0	41.5	42.0
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STA-EEET

2	0.	.	.		X	.	.	.	.	BANK.
3	10.	.	.		X	.	.	.	.	
4	20.	.	X	W	E	.	.	.	.	
	30.	.	X	W	E	.	.	.	.	
	40.	.	X	W	E	.	.	.	.	
	50.	.	X	W	E	.	.	.	.	
	60.	.	X	W	E	.	.	.	.	
	70.	.	X	W	E	.	.	.	.	
5	80.	.	X	W	E	.	.	.	.	
	90.	X	.	W	E	.	.	.	.	
6	100.	X	.	W	E	.	.	.	.	
	110.	X	.	W	E	.	.	.	.	
	120.	X	.	W	E	.	.	.	.	
	130.	X	.	W	E	.	.	.	.	
	140.	X	.	W	E	.	.	.	.	
	150.	X	.	W	E	.	.	.	.	
	160.	X	.	W	E	.	.	.	.	
	170.	.	X	W	E	.	.	.	.	
7	180.	.	X	W	E	.	.	.	.	
	190.	.	X	W	E	.	.	.	.	
	200.	.	X	W	E	.	.	.	.	
	210.	.	X	W	E	.	.	.	.	
	220.	.	X	W	E	.	.	.	.	
	230.	.	X	W	E	.	.	.	.	
	240.	.	X	W	E	.	.	.	.	
	250.	.	X	W	E	.	.	.	.	
	260.	.	X	W	E	.	.	.	.	
	270.	.	X	W	E	.	.	.	.	
	280.	.	X	W	E	.	.	.	.	
	290.	.X	.	W	E	.	.	.	.	
8	300.	X	.	W	E	.	.	.	.	
	310.	.	X	W	E	.	.	.	.	
9	320.	.	X	W	E	.	.	.	.	
	330.	.	X	W	E	.	.	.	.	
	340.	.	X	W	E	.	.	.	.	
	350.	.	X	W	E	.	.	.	.	
	360.	.	X	W	E	.	.	.	.	
	370.	.	X	W	E	.	.	.	.	
10	380.	.	X	W	E	.	.	.	.	
	390.	.	.	XW	E	.	.	.	.	
11	400.	.	.	X E		.	.	.	.	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

39.50	.00	39.50	10.00	38.00	20.00	38.00	80.00	37.00	100.00
38.00	180.00	37.50	300.00	38.00	320.00	38.00	380.00	38.40	400.00

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CROSS SECTION 6.00
STREAM FOR PREMIER HOMES
DISCHARGE= 740.

PLOTTED POINTS (BY PRIORITY) -B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0	40.5
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STA-FEET

2	0.	.	.	.	.	X	.	.	.	.	BANK.
	10.	.	.	.	.	X.	.	.	.	.	.
	20.	.	.	.	.	X.	.	.	.	.	.
	30.	.	.	.	.	X.	.	.	.	.	.
	40.	.	.	.	.	X.	.	.	.	.	.
	50.	.	.	.	.	X.	.	.	.	.	.
3	60.	.	.	.	.	X.	.	.	.	.	.
4	70.	.	X	E	.	.	.	.	.	.	.
5	80.	.		XE	.	.	.	.	.	.	.
	90.	.	X	C	E	.	.	.	.	.	.
6	100.	X	W	C	E	.	.	.	.	.	.
	110.	X	W	C	E	.	.	.	.	.	.
	120.	X	W	C	E	.	.	.	.	.	.
	130.	X	W	C	E	.	.	.	.	.	.
7	140.	X	W	C	E	.	.	.	.	.	.
	150.	X	W	C	E	.	.	.	.	.	.
8	160.	X	W	C	E	.	.	.	.	.	.
	170.	X	W	C	E	.	.	.	.	.	.
	180.	X	W	C	E	.	.	.	.	.	.
	190.	X	W	C	E	.	.	.	.	.	.
	200.	X	W	C	E	.	.	.	.	.	.
	210.	X	W	C	E	.	.	.	.	.	.
9	220.	X	W	C	E	.	.	.	.	.	.
	230.	X	W	C	E	.	.	.	.	.	.
	240.	X	W	C	E	.	.	.	.	.	.

250.	X	.	W	C	E	.	.	.	.	.	.	.	.
260.	X	.	W	C	E	.	.	.	.	.	.	.	.
270.	X	.	W	C	E	.	.	.	.	.	.	.	.
280.	X	.	W	C	E	.	.	.	.	.	.	.	.
290.	X	.	W	C	E	.	.	.	.	.	.	.	.
10 300.	X	.	W	C	E	.	.	.	.	.	.	.	.
310.	X	.	W	C	E	.	.	.	.	.	.	.	.
320.	X	.	W	C	E	.	.	.	.	.	.	.	.
330.	X	.	W	C	E	.	.	.	.	.	.	.	.
340.	X	.	W	C	E	.	.	.	.	.	.	.	.
350.	X	.	C	E	.	.	.	.	.	.	.	.	.
360.	X	.	C	E	.	.	.	.	.	.	.	.	.
11 370.	X	.	E	.	.	.	.	.	.	.	.	.	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)										
38.00	.00	37.80	60.00	36.50	70.00	36.80	80.00	36.00	100.00	
35.50	140.00	36.00	165.00	35.50	220.00	36.00	300.00	36.50	370.00	

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CROSS SECTION 7.00
STREAM FOR PREMIER HOMES

DISCHARGE= 740.

PLOTTED POINTS (BY PRIORITY)-B-BOTTOM BRIDGE,T-TOP BRIDGE,X-GROUND,W-WATER SUR,E-ENERGY GRADIENT,C-CRITICAL WSEL

ELEV	32.8	33.3	33.8	34.3	34.8	35.3	35.8	36.3	36.8	37.3	37.8
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STA- FEET

2	0.	.	.	.	.	.	X	.	.	.	.	BANK.
3	10.	.	.	.	.	.	X	.	.	.	.	
4	20.	.	.	.	.	X	.	.	.	.	.	
	30.	.	.	.	.	X	.	.	.	.	.	
	40.	.	.	.	.	X	.	.	.	.	.	
	50.	.	.	.	.	X	.	.	.	.	.	
	60.	.	.	.	.	X	.	.	.	.	.	
	70.	.	.	.	.	X	.	.	.	.	.	
	80.	.	.	.	.	X	.	.	.	.	.	
5	90.	.	.	.	.	X	.	.	.	.	.	

6	100.	.	.	X	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	110.	.	.	X	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	120.	.	.	X	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	130.	.	.	X	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	140.	.	.	X	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	150.	.	.	X	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	160.	.	.	X	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	170.	.	.	X	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	180.	.	.	X	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
7	190.	.	.	X	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	200.	.	.	X	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	210.	.	X	.	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	220.	.	X	.	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	230.	X.	.	.	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	240.	X	.	.	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
8	250.	X	.	.	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	260.	X	.	.	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	270.	.	X	.	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	280.	.	.	X	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
9	290.	.	.	X	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	300.	.	.	.	.W	C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	310.	.	.	.	.	X	.E	.	.	.	.	.	.	.	.	.	.	.	.	.
	320.	.	.	.	.	.	.XE	.	.	.	.	.	.	.	.	.	.	.	.	.
	330.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.
	340.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.
	350.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.
10	360.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)										
36.00	.00	36.00	10.00	35.00	20.00	35.00	90.00	34.00	105.00	
34.00	190.00	32.80	255.00	34.00	290.00	36.00	360.00			

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CROSS SECTION 8.00
STREAM FOR PREMIER HOMES

DISCHARGE= 740.

PLOTTED POINTS (BY PRIORITY)-B-BOTTOM BRIDGE,T-TOP BRIDGE,X-GROUND,W-WATER SUR,E-ENERGY GRADIENT,C-CRITICAL WSEL

ELEV	31.7	32.2	32.7	33.2	33.7	34.2	34.7	35.2	35.7	36.2	36.7
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STA- FEET

2	0.	.	.	.	X	.	.	.	.	BANK.
	5.	.	.	.	X	.	.	.	.	
3	10.	.	.	.	X	.	.	.	.	
	15.	.	.	.		X	.	.	.	
4	20.	.	.	.	.	.	X	.	.	
	25.	.	.	.	.	.	X	.	.	
	30.	.	.	.	.	.	X	.	.	
	35.	.	.	.	.	.	X	.	.	
	40.	.	.	.	.	.	X	.	.	
5	45.	.	.	.	.	X	.	.	.	
	50.	.	.	.	.	X	.	.	.	
	55.	.	.	.	.X	.	.	.	.	
6	60.	.	.	.	X	.	.	.	.	
	65.	.	.	.	X	.	.	.	.	
	70.	.	.	.	X	.	.	.	.	
	75.	.	.	.	X	.	.	.	.	
	80.	.	.	.	X	.	.	.	.	
	85.	.	.	.	X	.	.	.	.	
	90.	.	.	.	X	.	.	.	.	
7	95.	.	.	.	X	.	.	.	.	
	100.	.	.	.	X E.	.	.	.	.	
	105.	.	.	X WC	E.	.	.	.	.	
8	110.	.	X	WC	E.	.	.	.	.	
	115.	.	X	WC	E.	.	.	.	.	
9	120.	.	.	XC	E.	.	.	.	.	
	125.	.	X	WC	E.	.	.	.	.	
	130.	.	X.	WC	E.	.	.	.	.	
	135.	.	X	WC	E.	.	.	.	.	
	140.	X.	.	WC	E.	.	.	.	.	
	145.	X	.	WC	E.	.	.	.	.	
10	150.	X	.	WC	E.	.	.	.	.	
	155.	X	.	WC	E.	.	.	.	.	
11	160.	X	.	WC	E.	.	.	.	.	
	165.	X	.	WC	E.	.	.	.	.	
12	170.	X	.	WC	E.	.	.	.	.	
	175.	.	X	WC	E.	.	.	.	.	
	180.	.	X	WC	E.	.	.	.	.	
13	185.	.	.	XC	E.	.	.	.	.	
	190.	.	.	X WC	E.	.	.	.	.	
	195.	.	X	WC	E.	.	.	.	.	

200.	.	.	.X	WC	E.	.	.	.	.	.	.	.
205.	.	.	X.	WC	E.	.	.	.	.	.	.	.
210.	.	.	X	WC	E.	.	.	.	.	.	.	.
215.	.	.	.X	WC	E.	.	.	.	.	.	.	.
220.	.	X	.	WC	E.	.	.	.	.	.	.	.
225.	X	.	.	WC	E.	.	.	.	.	.	.	.
14 230.	X	.	.	WC	E.	.	.	.	.	.	.	.
235.	X	.	.	WC	E.	.	.	.	.	.	.	.
240.	X	.	.	WC	E.	.	.	.	.	.	.	.
245.	X	.	.	WC	E.	.	.	.	.	.	.	.
250.	.	X	.	WC	E.	.	.	.	.	.	.	.
255.	.	.X	.	WC	E.	.	.	.	.	.	.	.
260.	.	.X	.	WC	E.	.	.	.	.	.	.	.
265.	.	.X	.	WC	E.	.	.	.	.	.	.	.
270.	.	.X	.	WC	E.	.	.	.	.	.	.	.
275.	.	.X	.	WC	E.	.	.	.	.	.	.	.
280.	.	.X	.	WC	E.	.	.	.	.	.	.	.
285.	.	.X	.	WC	E.	.	.	.	.	.	.	.
15 290.	.	.	X	WC	E.	.	.	.	.	.	.	.
295.	.	.	XWC	E.	.	.	.	.	.	.	.	.
300.	.	.	X	E.	.	.	.	.	.	.	.	.
305.	.	.	X	E.	.	.	.	.	.	.	.	.
310.	.	.	X	E.	.	.	.	.	.	.	.	.
315.	.	.	X.	.	.	.	.	.	.	.	.	.
320.	.	.	.	X	.	.	.	.	.	.	.	.
325.	.	.	.	X	.	.	.	.	.	.	.	.
330.	.	.	.	X	.	.	.	.	.	.	.	.
335.	.	.	.	X.	.	.	.	.	.	.	.	.
16 340.	.	.	.	.	X	.	.	.	.	.	.	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

34.00	.00	34.10	10.00	35.00	22.00	34.70	45.00	34.00	60.00
34.00	95.00	32.50	112.00	33.20	122.00	31.70	150.00	32.20	160.00
32.00	170.00	33.20	185.00	31.80	230.00	33.00	290.00	34.30	340.00

1

PROFILE FOR STREAM FOR PREMIER HOMES

PLOTTED POINTS (BY PRIORITY) E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ELEVATION	-50.	-40.	-30.	-20.	-10.	0.	10.	20.	30.	40.	
SECNO	CUMDIS										
1.00	0.	.	.	.	.	.	.	.	.	.	IER
	10.	.	.	.	.	.	.	.	.	.	I ER
	20.	.	.	.	.	.	.	.	.	.	IWE.
	30.	.	.	.	.	.	.	.	.	.	IER.
	40.	.	.	.	.	.	.	.	.	.	IWE .
	50.	.	.	.	.	.	.	.	.	.	IWE .
	60.	.	.	.	.	.	.	.	.	.	IWER .
	70.	.	.	.	.	.	.	.	.	.	IWE .
	80.	.	.	.	.	.	.	.	.	.	I WE .
	90.	.	.	.	.	.	.	.	.	.	IWE .
2.00	100.	.	.	.	.	.	.	.	.	.	IWE .
	110.	.	.	.	.	.	.	.	.	.	IWEL .
	120.	.	.	.	.	.	.	.	.	.	IWE .
	130.	.	.	.	.	.	.	.	.	.	IWE .
	140.	.	.	.	.	.	.	.	.	.	IWEL .
	150.	.	.	.	.	.	.	.	.	.	IWEL .
	160.	.	.	.	.	.	.	.	.	.	IWE .
	170.	.	.	.	.	.	.	.	.	.	I EL .
	180.	.	.	.	.	.	.	.	.	.	IWEL .
	190.	.	.	.	.	.	.	.	.	.	IWE .
	200.	.	.	.	.	.	.	.	.	.	I EL .
	210.	.	.	.	.	.	.	.	.	.	IWEL .
	220.	.	.	.	.	.	.	.	.	.	IWEL .
	230.	.	.	.	.	.	.	.	.	.	I EL .
3.00	240.	.	.	.	.	.	.	.	.	.	I EL .
	250.	.	.	.	.	.	.	.	.	.	IWEL .
	260.	.	.	.	.	.	.	.	.	.	I EL .
	270.	.	.	.	.	.	.	.	.	.	IWEL .
4.00	280.	.	.	.	.	.	.	.	.	.	IWE .
	290.	.	.	.	.	.	.	.	.	.	I EL .
5.00	300.	.	.	.	.	.	.	.	.	.	IWEL .
	310.	.	.	.	.	.	.	.	.	.	IEL .
	320.	.	.	.	.	.	.	.	.	.	IWEL .
	330.	.	.	.	.	.	.	.	.	.	IWEL .
	340.	.	.	.	.	.	.	.	.	.	IEL .
6.00	350.	.	.	.	.	.	.	.	.	.	WEL .
	360.	.	.	.	.	.	.	.	.	.	IE L .
	370.	.	.	.	.	.	.	.	.	.	I EL .
	380.	.	.	.	.	.	.	.	.	.	IWEL .
	390.	.	.	.	.	.	.	.	.	.	I EL .
7.00	400.	.	.	.	.	.	.	.	.	.	IWEL .
	410.	.	.	.	.	.	.	.	.	.	IWEL .
	420.	.	.	.	.	.	.	.	.	.	I EL .
	430.	.	.	.	.	.	.	.	.	.	IWEL .
8.00	440.	.	.	.	.	.	.	.	.	.	IWE .

1

24JUN92 12:26:27

PAGE 3

THIS RUN EXECUTED 24JUN92 12:26:36

HEC-2 WATER SURFACE PROFILES

Version 4.5.1; September 1990

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

FOR PREMIER HOMES

SUMMARY PRINTOUT

	SECNO	ELMIN	CWSBL	CRIWS	Q	QLOB	QCH	QROB	DEPTH	TOPWID	AREA	VCH	EG
*	1.000	47.80	49.04	49.04	740.00	.00	740.00	.00	1.24	217.92	154.42	4.79	49.40
*	2.000	43.50	44.65	45.01	740.00	.00	740.00	.00	1.15	140.10	85.46	8.66	45.82
*	3.000	39.00	40.71	40.71	740.00	.00	740.00	.00	1.71	232.78	154.47	4.79	41.07
*	4.000	37.70	38.80	39.05	740.00	.00	740.00	.00	1.10	204.59	102.69	7.21	39.60
*	5.000	37.00	38.24	38.26	740.00	.00	740.00	.00	1.24	373.50	172.35	4.29	38.52
	6.000	35.50	36.37	36.49	740.00	.00	740.00	.00	.87	260.74	134.81	5.49	36.84
	7.000	32.80	34.33	34.46	740.00	.00	740.00	.00	1.53	201.54	123.93	5.97	34.89
	8.000	31.70	33.17	33.24	740.00	.00	740.00	.00	1.47	190.54	135.40	5.47	33.64

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24JUN92 12:26:27

PAGE 4

FOR PREMIER HOMES

SUMMARY PRINTOUT

TVOLI

*	.000
*	.000
*	.000
*	.000
*	.000
	.000
	.000
	.000

1

DEVELOPED CONDITIONS

T1	KORMAN RESIDENCE NORTH ALB ACRES									
T2	CROSS SECTIONS THROUGH PROPERTY AND UPSTREAM									
T3	FOR PREMIER HOMES									
J1	0	0	0	1	-1	0	0	740	0	0
J2	0	0	10	0	0	0	-1	0	0	0
J3	38	42	1	2	43	13	14	15	8	4
J3	25	26	3	75	0	0	0	0	0	0
J5	-10	-10								
NC	.035	.035	.035	0	0	0	0	0	0	0
X1	1	9	0	360	100.	100.	100.	0	0	1
GR	49.3	0	48.5	20	48.5	50	47.8	70	48.2	90
GR	47.9	125	48.1	150	50.0	300	50.0	360		
X1	2	9	0	380	135.0	135.0	135.0	0	0	1
GR	46.0	0	46.0	5.0	45.5	52.0	43.5	100	44.0	130
GR	44.0	160	43.9	170	46.2	300	46.0	380		
X1	3	13	0	300	40	40	40	0	0	1
GR	42.1	0	42.0	10	41.0	13	41.0	60	40.0	85
GR	39.0	90	39.2	120	40.0	125	40.5	180	40.0	240
GR	39.8	255	40.0	270	40.7	300				
X1	4	14	0	400	25	25	25	0	0	1
GR	40.3	0	40.2	25	40.0	45	38.9	50	40.0	54
GR	40.0	60	37.7	88	38.1	94	38.0	120	38.9	160
GR	37.9	260	39.0	300	39.6	330	40.0	400		
X1	5	10	0	400	50	50	50	0	0	1
GR	39.5	0	39.5	10	38.0	20	38.0	80	37.0	100
GR	38.0	180	37.5	300	38.0	320	38.0	380	38.4	400
X1	6	11	0	370	50	50	50	0	0	1
GR	38.0	0	37.8	60	36.5	70	36.8	80	36.0	100
GR	35.5	140	36.0	165	40.6	190	40.6	260	36.0	280
GR	36.5	370								
X1	7	12	0	360	40	40	40	0	0	1
GR	36.0	0	36.0	10	35.0	20	35.0	90	34.0	105
GR	34.0	190	33.5	210	37.0	230	35.0	245	35.0	285
GR	34.0	290	36.0	360						
X1	8	15	0	340	0	0	0	0	0	1
GR	34.0	0	34.1	10	35.0	22	34.7	45	34.0	60
GR	34.0	95	32.5	112	33.2	122	31.7	150	32.2	160
GR	32.0	170	33.2	185	31.8	230	33.0	290	34.3	340
BJ										

ER

DEVELOPED CONDITIONS

1*****

* HEC-2 WATER SURFACE PROFILES *

*

*

*

* Version 4.5.1; September 1990 *

*

*

* RUN DATE 24JUN92 TIME 13:13:24 *

*

* U.S. ARMY CORPS OF ENGINEERS

* HYDROLOGIC ENGINEERING CENTER

* 609 SECOND STREET, SUITE D

* DAVIS, CALIFORNIA 95616-4687

* (916) 756-1104

```

X   X   XXXXXX   XXXX   XXXX
X   X   X   X   X   X   X
X   X   X   X   X   X   X
XXXXXX   XXXX   X   XXXX   XXXX
X   X   X   X   X   X   X
X   X   X   X   X   X   X
X   X   XXXXXX   XXXX   XXXXXX

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END OF BANNER

1

24JUN92 13:13:24

PAGE 1

THIS RUN EXECUTED 24JUN92 13:13:25

HEC-2 WATER SURFACE PROFILES

Version 4.5.1; September 1990

T1 KORMAN RESIDENCE NORTH ALB ACRES

T2 CROSS SECTIONS THROUGH PROPERTY AND UPSTREAM

T3 FOR PREMIER HOMES

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	0	0	1	-1	0	0	740	0	0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	0	0	10	0	0	0	-1	0	0	0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38	42	1	2	43	13	14	15	8	4
25	26	3	75	0	0	0	0	0	0

J5 LPRNT NUMSEC *****REQUESTED SECTION NUMBERS*****

-10 -10

NC	.035	.035	.035	0	0	0	0	0	0	0
X1	1	9	0	360	100.	100.	100.	0	0	1
GR	49.3	0	48.5	20	48.5	50	47.8	70	48.2	90
GR	47.9	125	48.1	150	50.0	300	50.0	360		
X1	2	9	0	380	135.0	135.0	135.0	0	0	1
GR	46.0	0	46.0	5.0	45.5	52.0	43.5	100	44.0	130
GR	44.0	160	43.9	170	46.2	300	46.0	380		
X1	3	13	0	300	40	40	40	0	0	1
GR	42.1	0	42.0	10	41.0	13	41.0	60	40.0	85
GR	39.0	90	39.2	120	40.0	125	40.5	180	40.0	240
GR	39.8	255	40.0	270	40.7	300				
X1	4	14	0	400	25	25	25	0	0	1
GR	40.3	0	40.2	25	40.0	45	38.9	50	40.0	54
GR	40.0	60	37.7	88	38.1	94	38.0	120	38.9	160
GR	37.9	260	39.0	300	39.6	330	40.0	400		

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24JUN92 13:13:24

PAGE 2

X1	5	10	0	400	50	50	50	0	0	1
GR	39.5	0	39.5	10	38.0	20	38.0	80	37.0	100
GR	38.0	180	37.5	300	38.0	320	38.0	380	38.4	400
X1	6	11	0	370	50	50	50	0	0	1
GR	38.0	0	37.8	60	36.5	70	36.8	80	36.0	100
GR	35.5	140	36.0	165	40.6	190	40.6	260	36.0	280
GR	36.5	370								
X1	7	12	0	360	40	40	40	0	0	1
GR	36.0	0	36.0	10	35.0	20	35.0	90	34.0	105
GR	34.0	190	33.5	210	37.0	230	35.0	245	35.0	285
GR	34.0	290	36.0	360						
X1	8	15	0	340	0	0	0	0	0	1
GR	34.0	0	34.1	10	35.0	22	34.7	45	34.0	60
GR	34.0	95	32.5	112	33.2	122	31.7	150	32.2	160
GR	32.0	170	33.2	185	31.8	230	33.0	290	34.3	340

1

CROSS SECTION 1.00

STREAM FOR PREMIER HOMES
DISCHARGE= 740.

ELEV	47.8	48.3	48.8	49.3	49.8	50.3	50.8	51.3	51.8	52.3	52.8
------	------	------	------	------	------	------	------	------	------	------	------

STA- FEET

No.		Date		Description		Amount		Balance		Total	
2	0.	.	.	.	.	.	.	.	.	.	.
	10.	.	.	X	W	.	E	.	.	.	.
3	20.	.	X	.	W	.	E	.	.	.	.
	30.	.	X	.	W	.	E	.	.	.	.
	40.	.	X	.	W	.	E	.	.	.	.
4	50.	.	X	.	W	.	E	.	.	.	.
	60.	X	.	.	W	.	E	.	.	.	.
5	70.	X	.	.	W	.	E	.	.	.	.
	80.	X	.	.	W	.	E	.	.	.	.
6	90.	X	.	.	W	.	E	.	.	.	.
	100.	X	.	.	W	.	E	.	.	.	.
	110.	X	.	.	W	.	E	.	.	.	.
7	120.	X	.	.	W	.	E	.	.	.	.
	130.	X	.	.	W	.	E	.	.	.	.
	140.	X	.	.	W	.	E	.	.	.	.
8	150.	X	.	.	W	.	E	.	.	.	.
	160.	X	.	.	W	.	E	.	.	.	.
	170.	X	.	.	W	.	E	.	.	.	.
	180.	X	.	.	W	.	E	.	.	.	.
	190.	X	.	.	W	.	E	.	.	.	.
	200.	X	.	.	W	.	E	.	.	.	.
	210.	X	.	.	W	.	E	.	.	.	.
	220.	X	.	.	W	.	E	.	.	.	.
	230.	X	.	.	W	.	E	.	.	.	.
	240.	X	.	.	W	.	E	.	.	.	.
	250.	X	.	.	W	.	E	.	.	.	.
	260.	X	.	.	W	.	E	.	.	.	.
	270.	X	.	.	W	.	E	.	.	.	.
	280.	X	.	.	W	.	E	.	.	.	.
	290.	X	.	.	W	.	E	.	.	.	.
9	300.	X	.	.	W	.	E	.	.	.	.
	310.	X	.	.	W	.	E	.	.	.	.
	320.	X	.	.	W	.	E	.	.	.	.
	330.	X	.	.	W	.	E	.	.	.	.
	340.	X	.	.	W	.	E	.	.	.	.
	350.	X	.	.	W	.	E	.	.	.	.
10	360.	X	.	.	W	.	E	.	.	.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

49.30	.00	48.50	20.00	48.50	50.00	47.80	70.00	48.20	90.00
47.90	125.00	48.10	150.00	50.00	300.00	50.00	360.00		

1

CROSS SECTION 2.00

STREAM FOR PREMIER HOMES

DISCHARGE= 740.

PLOTTED POINTS (BY PRIORITY)-B-BOTTOM BRIDGE,T-TOP BRIDGE,X-GROUND,W-WATER SUR,E-ENERGY GRADIENT,C-CRITICAL WSEL

ELEV	43.5	44.0	44.5	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5
------	------	------	------	------	------	------	------	------	------	------	------

STA-FEET

3	0.	.	.	.	.	X	.	.	.	.	BANK.
	10.	.	.	.	.	X	.	.	.	.	.
	20.	.	.	.	.	X	.	.	.	.	.
	30.	.	.	.	.	X	E	.	.	.	.
	40.	.	.	.	.	X	E	.	.	.	.
4	50.	.	.	.	X	E	.	.	.	.	.
	60.	.	.	X	.	E	.	.	.	.	.
	70.	.	X	C	.	E	.	.	.	.	.
	80.	X	W	C	.	E	.	.	.	.	.
	90.	X	W	C	.	E	.	.	.	.	.
5	100.	X	W	C	.	E	.	.	.	.	.
	110.	X	W	C	.	E	.	.	.	.	.
	120.	X	W	C	.	E	.	.	.	.	.
6	130.	X	W	C	.	E	.	.	.	.	.
	140.	X	W	C	.	E	.	.	.	.	.
	150.	X	W	C	.	E	.	.	.	.	.
7	160.	X	W	C	.	E	.	.	.	.	.
8	170.	X	W	C	.	E	.	.	.	.	.
	180.	X	W	C	.	E	.	.	.	.	.
	190.	X	W	C	.	E	.	.	.	.	.
	200.	X	W	C	.	E	.	.	.	.	.
	210.	X	W	C	.	E	.	.	.	.	.

220.	.	.	X	C	.	E	.	.	.	.	.	.	.	.	.	.	.	.	.
230.	.	.	.	XC	.	E	.	.	.	.	.	.	.	.	.	.	.	.	.
240.	.	.	.	X	.	E	.	.	.	.	.	.	.	.	.	.	.	.	.
250.	.	.	.	.	X	E	.	.	.	.	.	.	.	.	.	.	.	.	.
260.	.	.	.	.	X	E	.	.	.	.	.	.	.	.	.	.	.	.	.
270.	.	.	.	.	.	X	E	.	.	.	.	.	.	.	.	.	.	.	.
280.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.
290.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.
9 300.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.
310.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.
320.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	.
330.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.
340.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.
350.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.
360.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	.
370.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.
10 380.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

46.00	.00	46.00	5.00	45.50	52.00	43.50	100.00	44.00	130.00
44.00	160.00	43.90	170.00	46.20	300.00	46.00	380.00		

1

CROSS SECTION 3.00

STREAM FOR PREMIER HOMES

DISCHARGE= 740.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	39.0	39.5	40.0	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0
------	------	------	------	------	------	------	------	------	------	------	------

STA-Feet

2	0.	.	.	.	.	.	.	X	.	.	.	BANK.
	5.	.	.	.	.	.	.	.	.	.	.	.
3	10.	.	.	.	.	.	.	X	.	.	.	.
	15.	.	.	.	.	XE	.	.	.	.	.	.
	20.	.	.	.	.	XE	.	.	.	.	.	.
	25.	.	.	.	.	XE	.	.	.	.	.	.
	30.	.	.	.	.	XE	.	.	.	.	.	.

Year	Month	Day	Time	Location	Event	Notes
35.	.	.	.		XE	
40.	.	.	.		XE	
45.	.	.	.		XE	
50.	.	.	.		XE	
55.	.	.	.		XE	
5	60.	.	.		XE	
65.	.	.	.	X	.E	
70.	.	.	.	X W	.E	
75.	.	.	.	X W	.E	
80.	.	.	.	X W	.E	
6	85.	.	.	X W	.E	
7	90.	X	.	W	.E	
95.	.X	.	.	W	.E	
100.	.X	.	.	W	.E	
105.	.X	.	.	W	.E	
110.	.X	.	.	W	.E	
115.	.X	.	.	W	.E	
8	120.	.X	.	W	.E	
9	125.	.	.	X W	.E	
130.	.	.	.	X W	.E	
135.	.	.	.	X W	.E	
140.	.	.	.	X W	.E	
145.	.	.	.	X W	.E	
150.	.	.	.	X W	.E	
155.	.	.	.	X W	.E	
160.	.	.	.	X W	.E	
165.	.	.	.	X W	.E	
170.	.	.	.	X W	.E	
175.	.	.	.	X W	.E	
10	180.	.	.	X W	.E	
185.	.	.	.	X W	.E	
190.	.	.	.	X W	.E	
195.	.	.	.	X W	.E	
200.	.	.	.	X W	.E	
205.	.	.	.	X W	.E	
210.	.	.	.	X W	.E	
215.	.	.	.	X W	.E	
220.	.	.	.	X W	.E	
225.	.	.	.	X W	.E	
230.	.	.	.	X W	.E	
235.	.	.	.	X W	.E	
11	240.	.	.	X W	.E	
245.	.	.	.	X W	.E	
250.	.	.	.	X W	.E	

12	255.	.	X	.	.	W	.	E	.	.	.	.	.	.	.	.	.
	260.	.	X	.	.	W	.	E	.	.	.	.	.	.	.	.	.
	265.	.		X.	.	W	.	E	.	.	.	.	.	.	.	.	.
13	270.	.		X	.	W	.	E	.	.	.	.	.	.	.	.	.
	275.	.		.	X	.	W	.	E	.	.	.	.	.	.	.	.
	280.	.		.	X	.	W	.	E	.	.	.	.	.	.	.	.
	285.	.		.	X	.	W	.	E	.	.	.	.	.	.	.	.
	290.	.		.	X.	W	.	E	.	.	.	.	.	.	.	.	.
	295.	.		.	.	X	W	.	E	.	.	.	.	.	.	.	.
14	300.	.		.	.	X	.	E	.	.	.	.	.	.	.	.	BANK.

NRD= 0 ELLC= 99999999.00 ELTRD= 99999999.00

EL(I),STA(I)

42.10	.00	42.00	10.00	41.00	13.00	41.00	60.00	40.00	85.00
39.00	90.00	39.20	120.00	40.00	125.00	40.50	180.00	40.00	240.00
39.80	255.00	40.00	270.00	40.70	300.00				

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CROSS SECTION 4.00
 STREAM FOR PREMIER HOMES
 DISCHARGE= 740.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	37.7	38.2	38.7	39.2	39.7	40.2	40.7	41.2	41.7	42.2	42.7
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STA-Feet

2	0.	.	.	.	.	.	X	.	.	.	.	BANK.
	10.	.	.	.	.	.	X	.	.	.	.	.
3	20.	.	.	.	.	.	X	.	.	.	.	.
	30.	.	.	.	.	.	X	.	.	.	.	.
4	40.	.	.	.	.	.	X	.	.	.	.	.
6	50.	.	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX				.	.	.	.	.
7	60.	.	.	.	.	.	X	.	.	.	.	.
	70.	.	.	X	E	.	.	.	.	.	.	.
	80.	.	X	.	W	C	.	E	.	.	.	.
9	90.	XXXXXXXXXX	.	.	W	C	.	E	.	.	.	.
	100.	X	.	.	W	C	.	E	.	.	.	.

110.	.	X	.	.	W	C	.	E	.	.	.	.	.	.	.	.	.	.	.	.
10 120.	.	X	.	.	W	C	.	E	.	.	.	.	.	.	.	.	.	.	.	
130.	.		X	.	W	C	.	E	.	.	.	.	.	.	.	.	.	.	.	
140.	.	.		X	.	W	C	.	E	.	.	.	.	.	.	.	.	.	.	
150.	.	.	.		X	W	C	.	E	.	.	.	.	.	.	.	.	.	.	
11 160.	.	.	.	.	.	X	C	.	E	.	.	.	.	.	.	.	.	.	.	
170.	.	.	.	.	.	X	C	.	E	.	.	.	.	.	.	.	.	.	.	
180.	.	.	.	.	.	X	W	C	.	E	.	.	.	.	.	.	.	.	.	
190.	.	.	.	.	X	.	W	C	.	E	.	.	.	.	.	.	.	.	.	
200.	.	.	.	X	.	.	W	C	.	E	.	.	.	.	.	.	.	.	.	
210.	.	.	.	X	.	.	W	C	.	E	.	.	.	.	.	.	.	.	.	
220.	.	.	.	X	.	.	W	C	.	E	.	.	.	.	.	.	.	.	.	
230.	.	.	X	.	.	.	W	C	.	E	.	.	.	.	.	.	.	.	.	
240.	.	.	X	.	.	.	W	C	.	E	.	.	.	.	.	.	.	.	.	
250.	.	X	.	.	.	.	W	C	.	E	.	.	.	.	.	.	.	.	.	
12 260.	.	X	.	.	.	.	W	C	.	E	.	.	.	.	.	.	.	.	.	
270.	.		X	.	.	.	W	C	.	E	.	.	.	.	.	.	.	.	.	
280.	.	.	.	X	.	.	W	C	.	E	.	.	.	.	.	.	.	.	.	
290.	.	.	.	.	X	W	C	.	E	.	.	.	.	.	.	.	.	.	.	
13 300.	.	.	.	.	.	.	X	C	.	E	.	.	.	.	.	.	.	.	.	
310.	.	.	.	.	.	.	.	X	.	E	.	.	.	.	.	.	.	.	.	
320.	.	.	.	.	.	.	.	.	X	E	.	.	.	.	.	.	.	.	.	
14 330.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	
340.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	
350.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	
360.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	
370.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	
380.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	
390.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	
15 400.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	BANK.	

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

40.30	.00	40.20	25.00	40.00	45.00	38.90	50.00	40.00	54.00
40.00	60.00	37.70	88.00	38.10	94.00	38.00	120.00	38.90	160.00
37.90	260.00	39.00	300.00	39.60	330.00	40.00	400.00		

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CROSS SECTION 5.00

STREAM FOR PREMIER HOMES

DISCHARGE= 740.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	37.0	37.5	38.0	38.5	39.0	39.5	40.0	40.5	41.0	41.5	42.0
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STA-FEET

2	0. .	.	.	.	.	X	.	.	.	.	BANK.
3	10. .	.	.	.	.	X	.	.	.	.	.
4	20. .	.	X	W	E	.	.	.	.	.	.
	30. .	.	X	W	E	.	.	.	.	.	.
	40. .	.	X	W	E	.	.	.	.	.	.
	50. .	.	X	W	E	.	.	.	.	.	.
	60. .	.	X	W	E	.	.	.	.	.	.
	70. .	.	X	W	E	.	.	.	.	.	.
5	80. .	.	X	W	E	.	.	.	.	.	.
	90. .	X	.	W	E	.	.	.	.	.	.
6	100. X	.	.	W	E	.	.	.	.	.	.
	110. . X	.	.	W	E	.	.	.	.	.	.
	120. . X	.	.	W	E	.	.	.	.	.	.
	130. . X	.	.	W	E	.	.	.	.	.	.
	140. . X	.	.	W	E	.	.	.	.	.	.
	150. . X	.	.	W	E	.	.	.	.	.	.
	160. . X	.	.	W	E	.	.	.	.	.	.
	170. . X	.	.	W	E	.	.	.	.	.	.
7	180. . X	.	.	W	E	.	.	.	.	.	.
	190. . X	.	.	W	E	.	.	.	.	.	.
	200. . X	.	.	W	E	.	.	.	.	.	.
	210. . X	.	.	W	E	.	.	.	.	.	.
	220. . X	.	.	W	E	.	.	.	.	.	.
	230. . X	.	.	W	E	.	.	.	.	.	.
	240. . X	.	.	W	E	.	.	.	.	.	.
	250. . X	.	.	W	E	.	.	.	.	.	.
	260. . X	.	.	W	E	.	.	.	.	.	.
	270. . X	.	.	W	E	.	.	.	.	.	.
	280. . X	.	.	W	E	.	.	.	.	.	.
	290. . X	.	.	W	E	.	.	.	.	.	.
8	300. . X	.	.	W	E	.	.	.	.	.	.
	310. . X	.	.	W	E	.	.	.	.	.	.
9	320. . X	.	.	W	E	.	.	.	.	.	.
	330. . X	.	.	W	E	.	.	.	.	.	.
	340. . X	.	.	W	E	.	.	.	.	.	.
	350. . X	.	.	W	E	.	.	.	.	.	.
	360. . X	.	.	W	E	.	.	.	.	.	.

370.	.	X	W	E	.	.	.	.	.	.	.
10 380.	.	X	W	E	.	.	.	.	.	.	.
390.	.	.	XW	E	.	.	.	.	.	.	.
11 400.	.	.	X	E	.	.	.	.	.	.	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

BL(I),STA(I)

39.50	.00	39.50	10.00	38.00	20.00	38.00	80.00	37.00	100.00
38.00	180.00	37.50	300.00	38.00	320.00	38.00	380.00	38.40	400.00

CROSS SECTION 6.00

STREAM FOR PREMIER HOMES
DISCHARGE= 740.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0	40.5
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STA-FEET

2	0.	.	.	.	.	X	.	.	.	.	BANK.
	10.	.	.	.	.	X.	.	.	.	.	.
	20.	.	.	.	.	X.	.	.	.	.	.
	30.	.	.	.	.	X.	.	.	.	.	.
	40.	.	.	.	.	X.	.	.	.	.	.
	50.	.	.	.	.	X.	.	.	.	.	.
3	60.	.	.	.	.	X.	.	.	.	.	.
4	70.	.	X	WC.	E.	.	.	.	.	.	.
5	80.	.	.	XWC.	E.	.	.	.	.	.	.
	90.	.	X.	WC.	E.	.	.	.	.	.	.
6	100.	X	.	WC.	E.	.	.	.	.	.	.
	110.	X.	.	WC.	E.	.	.	.	.	.	.
	120.	X	.	WC.	E.	.	.	.	.	.	.
	130.	X	.	WC.	E.	.	.	.	.	.	.
7	140.	X	.	WC.	E.	.	.	.	.	.	.
	150.	X	.	WC.	E.	.	.	.	.	.	.
8	160.	X	.	WC.	E.	.	.	.	.	.	.

170.	.	.	.	.	X	.	.	.	.	.	.
180.	.	.	.	.	.	.	.	.	X	.	.
9 190.	.	.	.	.	.	.	.	.	.	.	X
200.	.	.	.	.	.	.	.	.	.	.	X
210.	.	.	.	.	.	.	.	.	.	.	X
220.	.	.	.	.	.	.	.	.	.	.	X
230.	.	.	.	.	.	.	.	.	.	.	X
240.	.	.	.	.	.	.	.	.	.	.	X
250.	.	.	.	.	.	.	.	.	.	.	X
10 260.	.	.	.	.	.	.	.	.	.	.	X
270.	.	.	.	.	.	X	.	.	.	.	.
11 280.	X	.	WC	.	E	.	.	.	.	.	.
290.	.X	.	WC	.	E	.	.	.	.	.	.
300.	.X	.	WC	.	E	.	.	.	.	.	.
310.	.X	.	WC	.	E	.	.	.	.	.	.
320.	.X	.	WC	.	E	.	.	.	.	.	.
330.	.X	.	WC	.	E	.	.	.	.	.	.
340.	.X	.	WC	.	E	.	.	.	.	.	.
350.	.X	.	WC	.	E	.	.	.	.	.	.
360.	.X	.	WC	.	E	.	.	.	.	.	.
12 370.	.X	.	WC	.	E	.	.	.	.	.	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)										
38.00	.00	37.80	60.00	36.50	70.00	36.80	80.00	36.00	100.00	
35.50	140.00	36.00	165.00	40.60	190.00	40.60	260.00	36.00	280.00	
36.50	370.00									

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CROSS SECTION 7.00
STREAM FOR PREMIER HOMES
DISCHARGE= 740.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5
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STA- FEET

2 0.	.	.	.	.	X	.	.	.	.	.	BANK.
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3 10.	.	.	.	.	X	.	.	.	.	.	.
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4	20.	.	.	XC	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	30.	.	.	XC	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	40.	.	.	XC	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	50.	.	.	XC	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	60.	.	.	XC	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	70.	.	.	XC	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	80.	.	.	XC	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
5	90.	.	.	XC	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
6	100.	X	.	W	.C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	110.	X	.	W	.C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	120.	X	.	W	.C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	130.	X	.	W	.C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	140.	X	.	W	.C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	150.	X	.	W	.C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	160.	X	.	W	.C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	170.	X	.	W	.C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	180.	X	.	W	.C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
7	190.	X	.	W	.C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	200.	X	.	W	.C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
8	210.	X	.	W	.C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	220.	.	.	.	X	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
9	230.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.
10	240.	.	.	XC	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	250.	.	.	XC	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	260.	.	.	XC	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	270.	.	.	XC	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
11	280.	.	.	XC	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
12	290.	X	.	W	.C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	300.	.	X	W	.C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	310.	.	.	X W	.C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	320.	.	.	X	.C	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	330.	.	.	.	X	.E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	340.	.	.	.	X. E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	350.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.
13	360.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I).STA(I)

36.00	.00	36.00	10.00	35.00	20.00	35.00	90.00	34.00	105.00
34.00	190.00	33.50	210.00	37.00	230.00	35.00	245.00	35.00	285.00
34.00	290.00	36.00	360.00						

CROSS SECTION 8.00
 STREAM FOR PREMIER HOMES
 DISCHARGE= 740.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 31.7 32.2 32.7 33.2 33.7 34.2 34.7 35.2 35.7 36.2 36.7

STA-FEET

2	0.	.	.	.	.	X	.	.	.	.	.	BANK.
	5.	.	.	.	.	X	.	.	.	.	.	.
3	10.	.	.	.	.	X	.	.	.	.	.	.
	15.	.	.	.	.	.	X	.	.	.	.	.
4	20.	.	.	.	.	.	.	X	.	.	.	.
	25.	.	.	.	.	.	.	X	.	.	.	.
	30.	.	.	.	.	.	.	X	.	.	.	.
	35.	.	.	.	.	.	.	X	.	.	.	.
	40.	.	.	.	.	.	.	X	.	.	.	.
5	45.	.	.	.	.	.	.	X	.	.	.	.
	50.	.	.	.	.	.	X	.	.	.	.	.
	55.	.	.	.	.	.	X	.	.	.	.	.
6	60.	.	.	.	.	X	.	.	.	.	.	.
	65.	.	.	.	.	X	.	.	.	.	.	.
	70.	.	.	.	.	X	.	.	.	.	.	.
	75.	.	.	.	.	X	.	.	.	.	.	.
	80.	.	.	.	.	X	.	.	.	.	.	.
	85.	.	.	.	.	X	.	.	.	.	.	.
	90.	.	.	.	.	X	.	.	.	.	.	.
7	95.	.	.	.	.	X	.	.	.	.	.	.
	100.	.	.	.	.	X	E	.	.	.	.	.
	105.	.	.	.	X	C	E	.	.	.	.	.
8	110.	.	X	.	W	C	E	.	.	.	.	.
	115.	.	.	X	W	C	E	.	.	.	.	.
9	120.	.	.	.	X	C	E	.	.	.	.	.
	125.	.	.	.	X	W	C	E	.	.	.	.
	130.	.	.	X	W	C	E	.	.	.	.	.
	135.	.	X	.	W	C	E	.	.	.	.	.
	140.	.	X	.	W	C	E	.	.	.	.	.
	145.	.	X	.	W	C	E	.	.	.	.	.

10	150.	X	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	.	.
	155.		X	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	
11	160.	.		X	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	165.	.		X	.	W	.C	E	.	.	.	.	.	.	.	.	.	
12	170.	.	X	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	175.	.		X	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	180.	.			X	W	.C	E	.	.	.	.	.	.	.	.	.	
13	185.	.				X	C	E	.	.	.	.	.	.	.	.	.	
	190.	.				X	.C	E	.	.	.	.	.	.	.	.	.	
	195.	.			X	W	.C	E	.	.	.	.	.	.	.	.	.	
	200.	.			X	W	.C	E	.	.	.	.	.	.	.	.	.	
	205.	.		X	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	210.	.		X	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	215.	.		X	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	220.	.	X	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	225.	.	X	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	
14	230.	X	.	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	235.	X	.	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	240.	X	.	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	245.	X	.	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	250.	X	.	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	255.	X	.	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	260.	X	.	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	265.	X	.	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	270.	X	.	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	275.	X	.	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	280.	X	.	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	
	285.	X	.	.	.	W	.C	E	.	.	.	.	.	.	.	.	.	
15	290.	.	.	.	X	W	.C	E	.	.	.	.	.	.	.	.	.	
	295.	.	.	.	X	.C	E	.	.	.	.	.	.	.	.	.	.	
	300.	.	.	.	X	.	E	.	.	.	.	.	.	.	.	.	.	
	305.	.	.	.	X	.	E	.	.	.	.	.	.	.	.	.	.	
	310.	.	.	.	X	.	E	.	.	.	.	.	.	.	.	.	.	
	315.	.	.	.	X	E	.	.	.	.	.	.	.	.	.	.	.	
	320.	.	.	.	X	.	E	.	.	.	.	.	.	.	.	.	.	
	325.	.	.	.	X	.	E	.	.	.	.	.	.	.	.	.	.	
	330.	.	.	.	X	.	E	.	.	.	.	.	.	.	.	.	.	
	335.	.	.	.	X	.	E	.	.	.	.	.	.	.	.	.	.	
16	340.	.	.	.	X	.	E	.	.	.	.	.	.	.	.	.	BANK.	

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

34.00 .00 34.10 10.00 35.00 22.00 34.70 45.00 34.00 60.00

1
PROFILE FOR STREAM FOR PREMIER HOMES

[illegible]

420. IWE . .
 430. IWEL . .
 8.00 440. IWE . .

1

24JUN92 13:13:24

PAGE 3

THIS RUN EXECUTED 24JUN92 13:13:34

HEC-2 WATER SURFACE PROFILES

Version 4.5.1; September 1990

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

FOR PREMIER HOMES

SUMMARY PRINTOUT

	SECNO	ELWIN	CWSEL	CRWS	Q	QLOB	QCH	QROB	DEPTH	TOPWID	AREA	VCH	EG
*	1.000	47.80	49.04	49.04	740.00	.00	740.00	.00	1.24	217.92	154.42	4.79	49.40
*	2.000	43.50	44.65	45.01	740.00	.00	740.00	.00	1.15	140.10	85.46	8.66	45.82
*	3.000	39.00	40.71	40.71	740.00	.00	740.00	.00	1.71	232.78	154.47	4.79	41.07
*	4.000	37.70	38.80	39.05	740.00	.00	740.00	.00	1.10	204.59	102.69	7.21	39.60
*	5.000	37.00	38.24	38.26	740.00	.00	740.00	.00	1.24	373.50	172.35	4.29	38.52
	6.000	35.50	36.87	36.89	740.00	.00	740.00	.00	1.37	196.37	144.62	5.12	37.28
*	7.000	33.50	34.70	35.07	740.00	.00	740.00	.00	1.20	150.88	97.40	7.60	35.60
	8.000	31.70	33.07	33.24	740.00	.00	740.00	.00	1.37	177.08	115.97	6.38	33.70

1

24JUN92 13:13:24

PAGE 4

FOR PREMIER HOMES

SUMMARY PRINTOUT

TVOLI

* .000

* .000

LA CUEVA TRIBUTARY B

T1	KORMAN RESIDENCE NORTH ALB ACRES									
T2	CROSS SECTIONS THROUGH LA CUEVA TRIBUTARY NORTH OF PROPERTY									
T3	FOR PREMIER HOMES									
J1	0	0	0	1	-1	0	0	1150	0	0
J2	0	0	10	0	0	0	-1	0	0	0
J3	38	42	1	2	43	13	14	15	8	4
J3	25	26	3	75	0	0	0	0	0	0
J5	-10	-10								
NC	.035	.035	.035	0	0	0	0	0	0	0
X1	1	10	0	250	100.	100.	100.	0	0	1
GR	50.3	0	50.0	55	48.0	60	48.0	95	48.2	110
GR	47.9	170	50.0	180	48.5	190	50.0	235	52.0	250
X1	2	13	0	310	135.0	135.0	135.0	0	0	1
GR	46.5	0	46.0	80	44.0	85	44.0	120	43.6	140
GR	44.0	160	46.0	165	46.0	220	44.0	230	44.0	240
GR	46.0	250	46.0	285	48.0	310				
X1	3	11	0	290	40	40	40	0	0	1
GR	40.5	0	40.5	30	40.0	60	40.0	95	38.5	115
GR	38.0	140	38.0	160	40.2	225	39.6	270	40.0	280
GR	42.0	290								
X1	4	11	0	395	25	25	25	0	0	1
GR	39.2	0	40.0	110	36.0	150	37.0	190	39.6	240
GR	38.5	250	38.5	275	40.0	280	38.0	310	38.0	330
GR	41.0	395								
X1	5	12	0	360	50	50	50	0	0	1
GR	37.5	0	38.4	100	38.0	125	35.7	135	35.7	175
GR	38.0	230	37.0	245	38.0	260	36.0	270	36.0	320
GR	38.0	335	40.0	360						
X1	6	8	0	340	50	50	50	0	0	1
GR	36.0	0	36.5	70	36.0	110	34.0	120	33.5	155
GR	34.0	175	34.0	320	38.0	340				
X1	7	9	0	340	40	40	40	0	0	1
GR	34.5	0	36.0	60	36.0	90	34.0	120	32.0	130
GR	31.0	140	32.0	170	32.0	290	36.0	340		
X1	8	11	0	310	0	0	0	0	0	1
GR	33.0	0	34.0	30	34.0	100	32.0	125	30.0	135
GR	30.0	160	31.9	200	30.0	250	30.0	285	32.0	290
GR	34.0	310								
EJ										

ER

LA CUEVA TRIBUTARY B

1*****

* HEC-2 WATER SURFACE PROFILES *

*

* *

*

* Version 4.5.1; September.1990 *

*

*

* RUN DATE 24JUN92 TIME 14:20:57 *

*

* U.S. ARMY CORPS OF ENGINEERS

* HYDROLOGIC ENGINEERING CENTER

* 609 SECOND STREET, SUITE D

* DAVIS, CALIFORNIA 95616-4687

* (916) 756-1104

```

X  X  XXXXXX  XXXX  XXXX
X  X  X      X  X      X  X
X  X  X      X      X      X
XXXXXXXX XXXX  X      XXXX  XXXX
X  X  X      X      X
X  X  X      X  X      X
X  X  XXXXXX  XXXX  XXXXXX
  
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END OF BANNER

1

24JUN92 14:20:57

PAGE 1

THIS RUN EXECUTED 24JUN92 14:20:57

HEC-2 WATER SURFACE PROFILES

Version 4.5.1; September 1990

T1 KORMAN RESIDENCE NORTH ALB ACRES
T2 CROSS SECTIONS THROUGH LA CUEVA TRIBUTARY NORTH OF PROPERTY
T3 FOR PREMIER HOMES

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	0	0	1	-1	0	0	1150	0	0
J2	NPROF	IPLOT	PREVS	XSECV	XSECH	FN	ALLDC	IDW	CHNIM	ITRACE
	0	0	10	0	0	0	-1	0	0	0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38	42	1	2	43	13	14	15	8	4
25	26	3	75	0	0	0	0	0	0

J5 LPRNT NUMSEC *****REQUESTED SECTION NUMBERS*****

-10 -10

NC	.035	.035	.035	0	0	0	0	0	0	0
X1	1	10	0	250	100.	100.	100.	0	0	1
GR	50.3	0	50.0	55	48.0	60	48.0	95	48.2	110
GR	47.9	170	50.0	180	48.5	190	50.0	235	52.0	250
X1	2	13	0	310	135.0	135.0	135.0	0	0	1
GR	46.5	0	46.0	80	44.0	85	44.0	120	43.6	140
GR	44.0	160	46.0	165	46.0	220	44.0	230	44.0	240
GR	46.0	250	46.0	285	48.0	310				
X1	3	11	0	290	40	40	40	0	0	1
GR	40.5	0	40.5	30	40.0	60	40.0	95	38.5	115
GR	38.0	140	38.0	160	40.2	225	39.6	270	40.0	280
GR	42.0	290								
X1	4	11	0	395	25	25	25	0	0	1
GR	39.2	0	40.0	110	36.0	150	37.0	190	39.6	240
GR	38.5	250	38.5	275	40.0	280	38.0	310	38.0	330
GR	41.0	395								

1

24JUN92 14:20:57

PAGE 2

X1	5	12	0	360	50	50	50	0	0	1
GR	37.5	0	38.4	100	38.0	125	35.7	135	35.7	175
GR	38.0	230	37.0	245	38.0	260	36.0	270	36.0	320
GR	38.0	335	40.0	360						
X1	6	8	0	340	50	50	50	0	0	1
GR	36.0	0	36.5	70	36.0	110	34.0	120	33.5	155
GR	34.0	175	34.0	320	38.0	340				
X1	7	9	0	340	40	40	40	0	0	1
GR	34.5	0	36.0	60	36.0	90	34.0	120	32.0	130
GR	31.0	140	32.0	170	32.0	290	36.0	340		
X1	8	11	0	310	0	0	0	0	0	1
GR	33.0	0	34.0	30	34.0	100	32.0	125	30.0	135
GR	30.0	160	31.9	200	30.0	250	30.0	285	32.0	290
GR	34.0	310								

1

CROSS SECTION 1.00

STREAM FOR PREMIER HOMES
DISCHARGE= 1150.

--- PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 47.9 48.4 48.9 49.4 49.9 50.4 50.9 51.4 51.9 52.4 52.9

STA-FEET

2	0. .	.	.	.	.	X .	.	.	.	.	.	BANK.
	5. .	.	.	.	.	X .	.	.	.	.	.	.
	10. .	.	.	.	.	X .	.	.	.	.	.	.
	15. .	.	.	.	.	X .	.	.	.	.	.	.
	20. .	.	.	.	.	X .	.	.	.	.	.	.
	25. .	.	.	.	.	X .	.	.	.	.	.	.
	30. .	.	.	.	.	X .	.	.	.	.	.	.
	35. .	.	.	.	.	X .	.	.	.	.	.	.
	40. .	.	.	.	.	X .	.	.	.	.	.	.
	45. .	.	.	.	.	XE .	.	.	.	.	.	.
	50. .	.	.	.	.	XE .	.	.	.	.	.	.
3	55. .	.	.	.	.	X E .	.	.	.	.	.	.
4	60. . X	.	.	.	W	E .	.	.	.	.	.	.
	65. . X	.	.	.	W	E .	.	.	.	.	.	.
	70. . X	.	.	.	W	E .	.	.	.	.	.	.
	75. . X	.	.	.	W	E .	.	.	.	.	.	.
	80. . X	.	.	.	W	E .	.	.	.	.	.	.
	85. . X	.	.	.	W	E .	.	.	.	.	.	.
	90. . X	.	.	.	W	E .	.	.	.	.	.	.
5	95. . X	.	.	.	W	E .	.	.	.	.	.	.
	100. . X	.	.	.	W	E .	.	.	.	.	.	.
	105. . X	.	.	.	W	E .	.	.	.	.	.	.
6	110. . X	.	.	.	W	E .	.	.	.	.	.	.
	115. . X	.	.	.	W	E .	.	.	.	.	.	.
	120. . X	.	.	.	W	E .	.	.	.	.	.	.
	125. . X	.	.	.	W	E .	.	.	.	.	.	.
	130. . X	.	.	.	W	E .	.	.	.	.	.	.
	135. . X	.	.	.	W	E .	.	.	.	.	.	.
	140. . X	.	.	.	W	E .	.	.	.	.	.	.
	145. . X	.	.	.	W	E .	.	.	.	.	.	.
	150. . X	.	.	.	W	E .	.	.	.	.	.	.
	155. . X	.	.	.	W	E .	.	.	.	.	.	.
	160. . X	.	.	.	W	E .	.	.	.	.	.	.
	165. . X	.	.	.	W	E .	.	.	.	.	.	.
7	170. X	.	.	.	W	E .	.	.	.	.	.	.

175. .	.	.X	.W	.E	.	.	.	.	.	.	.
8 180. .	.	.	.	.X E	.	.	.	.	.	.	.
185. .	.	.	X .W	.E	.	.	.	.	.	.	.
9 190. .	.X	.	.W	.E	.	.	.	.	.	.	.
195. .	.	X	.W	.E	.	.	.	.	.	.	.
200. .	.	X.	.W	.E	.	.	.	.	.	.	.
205. .	.	.X	.W	.E	.	.	.	.	.	.	.
210. .	.	.	X .W	.E	.	.	.	.	.	.	.
215. .	.	.	X.W	.E	.	.	.	.	.	.	.
220. .	.	.	.X	.E	.	.	.	.	.	.	.
225. .	.	.	.X	.E	.	.	.	.	.	.	.
230. .	.	.	.	X. E	.	.	.	.	.	.	.
10 235. .	.	.	.	.X E	.	.	.	.	.	.	.
240. .	.	.	.	.	.	X	.	.	.	.	.
245. .	.	.	.	.	.	.	X.	.	.	.	.
11 250. .	.	.	.	.	.	.	.	X	.	.	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
50.30	.00	50.00	55.00	48.00	60.00	48.00	95.00	48.20	110.00
47.90	170.00	50.00	180.00	48.50	190.00	50.00	235.00	52.00	250.00

1
CROSS SECTION 2.00

STREAM FOR PREMIER HOMES
DISCHARGE= 1150.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	43.6	44.1	44.6	45.1	45.6	46.1	46.6	47.1	47.6	48.1	48.6
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STA-PEET

2 0. .	.	.	.	.	.	X .	E .	.	.	.	BANK.
10. .	.	.	.	.	.	X .	E .	.	.	.	.
20. .	.	.	.	.	.	X .	E .	.	.	.	.
30. .	.	.	.	.	.	X .	E .	.	.	.	.
40. .	.	.	.	.	.	X .	E .	.	.	.	.
50. .	.	.	.	.	.	X .	E .	.	.	.	.
60. .	.	.	.	.	.	X .	E .	.	.	.	.

70.	.	.	.	.	X.	.	E.	.	.	.	.
4 80.	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX.	.	.	.	.	E.	.	.	.	.
90.	X.	.	W.	C.	.	.	E.	.	.	.	.
100.	X.	.	W.	C.	.	.	E.	.	.	.	.
110.	X.	.	W.	C.	.	.	E.	.	.	.	.
5 120.	X.	.	W.	C.	.	.	E.	.	.	.	.
130.	X	.	.	W.	C.	.	E.	.	.	.	.
6 140.	X	.	.	W.	C.	.	E.	.	.	.	.
150.	X	.	.	W.	C.	.	E.	.	.	.	.
8 160.	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX.	.	.	.	.	E.	.	.	.	.
170.	.	.	.	.	X.	.	E.	.	.	.	.
180.	.	.	.	.	X.	.	E.	.	.	.	.
190.	.	.	.	.	X.	.	E.	.	.	.	.
200.	.	.	.	.	X.	.	E.	.	.	.	.
210.	.	.	.	.	X.	.	E.	.	.	.	.
9 220.	.	.	.	.	X.	.	E.	.	.	.	.
10 230.	X.	.	W.	C.	.	.	E.	.	.	.	.
11 240.	X.	.	W.	C.	.	.	E.	.	.	.	.
12 250.	.	.	.	.	X.	.	E.	.	.	.	.
260.	.	.	.	.	X.	.	E.	.	.	.	.
270.	.	.	.	.	X.	.	E.	.	.	.	.
13 280.	.	.	.	.	X.	.	E.	.	.	.	.
290.	.	.	.	.	.	X	E.	.	.	.	.
300.	.	.	.	.	.	.	.	X	.	.	.
14 310.	.	.	.	.	.	.	.	.	X.	.	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
46.50	.00	46.00	80.00	44.00	85.00	44.00	120.00	43.60	140.00
44.00	160.00	46.00	165.00	46.00	220.00	44.00	230.00	44.00	240.00
46.00	250.00	46.00	285.00	48.00	310.00				

1
CROSS SECTION 3.00

STREAM FOR PREMIER HOMES
DISCHARGE= 1150.

PLOTTED POINTS (BY PRIORITY)-B-BOTTOM BRIDGE,T-TOP BRIDGE,X-GROUND,W-WATER SUR,E-ENERGY GRADIENT,C-CRITICAL WSEL

ELEV	38.0	38.5	39.0	39.5	40.0	40.5	41.0	41.5	42.0	42.5	43.0
------	------	------	------	------	------	------	------	------	------	------	------

STA-FEET

2	0.	.	.	.	.	X	E	.	.	.	.	.	BANK.
	5.	.	.	.	.	X	E	.	.	.	.	.	.
	10.	.	.	.	.	X	E	.	.	.	.	.	.
	15.	.	.	.	.	X	E	.	.	.	.	.	.
	20.	.	.	.	.	X	E	.	.	.	.	.	.
	25.	.	.	.	.	X	E	.	.	.	.	.	.
3	30.	.	.	.	.	X	E	.	.	.	.	.	.
	35.	.	.	.	.	X	E	.	.	.	.	.	.
	40.	.	.	.	.	X	E	.	.	.	.	.	.
	45.	.	.	.	.	X	E	.	.	.	.	.	.
	50.	.	.	.	.	XC	E	.	.	.	.	.	.
	55.	.	.	.	.	XC	E	.	.	.	.	.	.
4	60.	.	.	.	.	XC	E	.	.	.	.	.	.
	65.	.	.	.	.	XC	E	.	.	.	.	.	.
	70.	.	.	.	.	XC	E	.	.	.	.	.	.
	75.	.	.	.	.	XC	E	.	.	.	.	.	.
	80.	.	.	.	.	XC	E	.	.	.	.	.	.
	85.	.	.	.	.	XC	E	.	.	.	.	.	.
	90.	.	.	.	.	XC	E	.	.	.	.	.	.
5	95.	.	.	.	.	XC	E	.	.	.	.	.	.
	100.	.	.	.	X	W	C	.	E	.	.	.	.
	105.	.	.	X	.	W	C	.	E	.	.	.	.
	110.	.	X	.	.	W	C	.	E	.	.	.	.
6	115.	.	X	.	.	W	C	.	E	.	.	.	.
	120.	.	X	.	.	W	C	.	E	.	.	.	.
	125.	.	X	.	.	W	C	.	E	.	.	.	.
	130.	.	X	.	.	W	C	.	E	.	.	.	.
	135.	.	X	.	.	W	C	.	E	.	.	.	.
7	140.	.	X	.	.	W	C	.	E	.	.	.	.
	145.	.	X	.	.	W	C	.	E	.	.	.	.
	150.	.	X	.	.	W	C	.	E	.	.	.	.
	155.	.	X	.	.	W	C	.	E	.	.	.	.
8	160.	.	X	.	.	W	C	.	E	.	.	.	.
	165.	.	X	.	.	W	C	.	E	.	.	.	.
	170.	.	X	.	.	W	C	.	E	.	.	.	.
	175.	.	X	.	.	W	C	.	E	.	.	.	.
	180.	.	X	.	.	W	C	.	E	.	.	.	.
	185.	.	X	.	.	W	C	.	E	.	.	.	.
	190.	.	X	.	.	W	C	.	E	.	.	.	.

20.	.	.	.	.	.	.	.	X	E	.	.	.	.
30.	.	.	.	.	.	.	.	X	E	.	.	.	.
40.	.	.	.	.	.	.	.	X	.	.	.	.	.
50.	.	.	.	.	.	.	.	X	.	.	.	.	.
60.	.	.	.	.	.	.	.	X	.	.	.	.	.
70.	.	.	.	.	.	.	.	X	.	.	.	.	.
80.	.	.	.	.	.	.	.	X	.	.	.	.	.
90.	.	.	.	.	.	.	.	X	.	.	.	.	.
100.	.	.	.	.	.	.	.	X	.	.	.	.	.
3 110.	.	.	.	.	.	.	.	X	.	.	.	.	.
120.	.	.	.	.	.	.	X	E	.	.	.	.	.
130.	.	.	.	X	W.	C	.	E	.	.	.	.	.
140.	.	X	.	.	W.	C	.	E	.	.	.	.	.
4 150.	X	.	.	.	W.	C	.	E	.	.	.	.	.
160.	X	.	.	.	W.	C	.	E	.	.	.	.	.
170.	X	.	.	.	W.	C	.	E	.	.	.	.	.
180.	.	X	.	.	W.	C	.	E	.	.	.	.	.
5 190.	.	X	.	.	W.	C	.	E	.	.	.	.	.
200.	.	.	X	.	W.	C	.	E	.	.	.	.	.
210.	.	.	.	X	W.	C	.	E	.	.	.	.	.
220.	.	.	.	.	X	C	.	E	.	.	.	.	.
230.	.	.	.	.	.	X	.	E	.	.	.	.	.
6 240.	.	.	.	.	.	.	.	X	.	.	.	.	.
7 250.	.	.	.	.	X	C	.	E	.	.	.	.	.
260.	.	.	.	.	X	C	.	E	.	.	.	.	.
8 270.	.	.	.	.	X	C	.	E	.	.	.	.	.
9 280.	.	.	.	.	.	.	.	X	.	.	.	.	.
290.	.	.	.	.	.	.	.	X	E	.	.	.	.
300.	.	.	.	.	.	X	C	.	E	.	.	.	.
10 310.	.	.	.	X	W.	C	.	E	.	.	.	.	.
320.	.	.	.	X	W.	C	.	E	.	.	.	.	.
11 330.	.	.	.	X	W.	C	.	E	.	.	.	.	.
340.	.	.	.	.	X	C	.	E	.	.	.	.	.
350.	.	.	.	.	.	X	.	E	.	.	.	.	.
360.	.	.	.	.	.	.	.	X	E	.	.	.	.
370.	.	.	.	.	.	.	.	X	.	.	.	.	.
380.	.	.	.	.	.	.	.	X	.	.	.	.	.
12 390.	.	.	.	.	.	.	.	X	.	.	X	BANK.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

39.20	.00	40.00	110.00	36.00	150.00	37.00	190.00	39.60	240.00
38.50	250.00	38.50	275.00	40.00	280.00	38.00	310.00	38.00	330.00
41.00	395.00								

1

CROSS SECTION 5.00
 STREAM FOR PREMIER HOMES
 DISCHARGE= 1150.

PLOTTED POINTS (BY PRIORITY) -B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	35.7	36.2	36.7	37.2	37.7	38.2	38.7	39.2	39.7	40.2	40.7
------	------	------	------	------	------	------	------	------	------	------	------

STA- FEET

2	0.	.	.	.	X	.	.	E	.	.	.	BANK.
	10.	.	.	.	X	.	.	E	.	.	.	.
	20.	.	.	.	X	.	.	E	.	.	.	.
	30.	.	.	.	X	.	.	E	.	.	.	.
	40.	.	.	.	X	.	.	E	.	.	.	.
	50.	.	.	.	X	.	.	E	.	.	.	.
	60.	.	.	.	X	.	.	E	.	.	.	.
	70.	.	.	.	X	.	.	E	.	.	.	.
	80.	.	.	.	X	.	.	E	.	.	.	.
	90.	.	.	.	X	.	.	E	.	.	.	.
3	100.	.	.	.	.	.	.	X	.	.	.	.
	110.	.	.	.	.	.	.	X	.	.	.	.
4	120.	.	.	.	X	.	.	E	.	.	.	.
5	130.	X	.	W	.	C	.	E	.	.	.	.
	140.	X	.	W	.	C	.	E	.	.	.	.
	150.	X	.	W	.	C	.	E	.	.	.	.
	160.	X	.	W	.	C	.	E	.	.	.	.
6	170.	X	.	W	.	C	.	E	.	.	.	.
	180.	X	.	W	.	C	.	E	.	.	.	.
	190.	X	.	W	.	C	.	E	.	.	.	.
	200.	.	.	X	.	C	.	E	.	.	.	.
	210.	.	.	X	.	E	.	E	.	.	.	.
	220.	.	.	.	X	.	.	E	.	.	.	.
7	230.	.	.	.	X	.	.	B	.	.	.	.
8	240.	.	.	X	.	C	.	E	.	.	.	.
	250.	.	.	.	X	.	.	E	.	.	.	.
9	260.	.	.	.	X	.	.	E	.	.	.	.

10	270.	.	X	.	.	W	.	C	.	.	E	.	.	.	.	.	.
	280.	.	X	.	.	W	.	C	.	.	E	.	.	.	.	.	.
	290.	.	X	.	.	W	.	C	.	.	E	.	.	.	.	.	.
	300.	.	X	.	.	W	.	C	.	.	E	.	.	.	.	.	.
	310.	.	X	.	.	W	.	C	.	.	E	.	.	.	.	.	.
11	320.	.	X	.	.	W	.	C	.	.	E	.	.	.	.	.	.
12	330.	.	.	.	.	.	.	.	X	.	E	.	.	.	.	.	.
	340.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.
	350.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.
13	360.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
37.50	.00	38.40	100.00	38.00	125.00	35.70	135.00	35.70	175.00
38.00	230.00	37.00	245.00	38.00	260.00	36.00	270.00	36.00	320.00
38.00	335.00	40.00	360.00						

1
CROSS SECTION 6.00
STREAM FOR PREMIER HOMES
DISCHARGE= 1150.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 33.5 34.0 34.5 35.0 35.5 36.0 36.5 37.0 37.5 38.0 38.5

STA-Feet

2	0.	.	.	.	.	X	.	.	.	.	.	BANK.
	10.	.	.	.	.	X	.	.	.	.	.	.
	20.	.	.	.	.	X	.	.	.	.	.	.
	30.	.	.	.	.	X	.	.	.	.	.	.
	40.	.	.	.	.	X	.	.	.	.	.	.
	50.	.	.	.	.	X	.	.	.	.	.	.
	60.	.	.	.	.	X	.	.	.	.	.	.
3	70.	.	.	.	.	X	.	.	.	.	.	.
	80.	.	.	.	.	X	.	.	.	.	.	.
	90.	.	.	.	.	X	.	.	.	.	.	.
	100.	.	.	.	.	X	.	.	.	.	.	.

4	110.	.	.	.	.	X	.	.	.	.	.	.
5	120.	X	.	W	C.	.E	.	.	.	.	.	.
	130.	X	.	W	C.	.E	.	.	.	.	.	.
	140.	X	.	W	C.	.E	.	.	.	.	.	.
6	150.	X	.	W	C.	.E	.	.	.	.	.	.
	160.	X	.	W	C.	.E	.	.	.	.	.	.
7	170.	X	.	W	C.	.E	.	.	.	.	.	.
	180.	X	.	W	C.	.E	.	.	.	.	.	.
	190.	X	.	W	C.	.E	.	.	.	.	.	.
	200.	X	.	W	C.	.E	.	.	.	.	.	.
	210.	X	.	W	C.	.E	.	.	.	.	.	.
	220.	X	.	W	C.	.E	.	.	.	.	.	.
	230.	X	.	W	C.	.E	.	.	.	.	.	.
	240.	X	.	W	C.	.E	.	.	.	.	.	.
	250.	X	.	W	C.	.E	.	.	.	.	.	.
	260.	X	.	W	C.	.E	.	.	.	.	.	.
	270.	X	.	W	C.	.E	.	.	.	.	.	.
	280.	X	.	W	C.	.E	.	.	.	.	.	.
	290.	X	.	W	C.	.E	.	.	.	.	.	.
	300.	X	.	W	C.	.E	.	.	.	.	.	.
	310.	X	.	W	C.	.E	.	.	.	.	.	.
8	320.	X	.	W	C.	.E	.	.	.	.	.	.
	330.	.	.	.	.	.	X	.	.	.	.	.
9	340.	.	.	.	.	.	.	.	X	.	BANK.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

36.00	.00	35.50	70.00	36.00	110.00	34.00	120.00	33.50	155.00
34.00	175.00	34.00	320.00	38.00	340.00				

1

CROSS SECTION 7.00

STREAM FOR PREMIER HOMES

DISCHARGE= 1150.

PLOTTED POINTS (BY PRIORITY)-B-BOTTOM BRIDGE,T-TOP BRIDGE,X-GROUND,W-WATER SUR,E-ENERGY GRADIENT,C-CRITICAL WSEL

ELEV	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0
------	------	------	------	------	------	------	------	------	------	------	------

STA-FEET

2	0.	.	.	.	.	.	.	X	.	.	.	BANK.
	10.	.	.	.	.	.	.	X	.	.	.	.
	20.	.	.	.	.	.	.	X	.	.	.	.
	30.	.	.	.	.	.	.	X	.	.	.	.
	40.	.	.	.	.	.	.	X	.	.	.	.
	50.	.	.	.	.	.	.	X	.	.	.	.
3	60.	.	.	.	.	.	.	X	.	.	X	.
	70.	.	.	.	.	.	.	X	.	.	X	.
	80.	.	.	.	.	.	.	X	.	.	X	.
4	90.	.	.	.	.	.	.	X	.	.	X	.
	100.	.	.	.	.	.	.	X	.	.	X	.
	110.	.	.	.	.	.	.	X	.	.	X	.
5	120.	.	.	.	.	X	.	X	.	.	X	.
6	130.	.	X	.	W C	.	E	.	.	.	X	.
7	140.	X	.	.	W C	.	E	.	.	.	X	.
	150.	X	.	.	W C	.	E	.	.	.	X	.
	160.	.	X	.	W C	.	E	.	.	.	X	.
8	170.	.	X	.	W C	.	E	.	.	.	X	.
	180.	.	X	.	W C	.	E	.	.	.	X	.
	190.	.	X	.	W C	.	E	.	.	.	X	.
	200.	.	X	.	W C	.	E	.	.	.	X	.
	210.	.	X	.	W C	.	E	.	.	.	X	.
	220.	.	X	.	W C	.	E	.	.	.	X	.
	230.	.	X	.	W C	.	E	.	.	.	X	.
	240.	.	X	.	W C	.	E	.	.	.	X	.
	250.	.	X	.	W C	.	E	.	.	.	X	.
	260.	.	X	.	W C	.	E	.	.	.	X	.
	270.	.	X	.	W C	.	E	.	.	.	X	.
	280.	.	X	.	W C	.	E	.	.	.	X	.
9	290.	.	X	.	W C	.	E	.	.	.	X	.
	300.	.	.	.	XW C	.	E	.	.	.	X	.
	310.	.	.	.	.	XE	.	.	.	.	X	.
	320.	.	.	.	.	.	X	.	.	.	X	.
	330.	.	.	.	.	.	.	X	.	.	X	.
10	340.	.	.	.	.	.	.	.	.	.	X	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I).STA(I)

34.50	.00	36.00	60.00	36.00	90.00	34.00	120.00	32.00	130.00
31.00	140.00	32.00	170.00	32.00	290.00	36.00	340.00		

CROSS SECTION 8.00

STREAM FOR PREMIER HOMES

DISCHARGE= 1150.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 30.0 30.5 31.0 31.5 32.0 32.5 33.0 33.5 34.0 34.5 35.0

STA-FEET

2	0.	.	.	.	.	.	X	.	.	.	.	BANK.
	10.	.	.	.	.	.	X	.	.	.	.	.
	20.	.	.	.	.	.	.	X	.	.	.	.
3	30.	.	.	.	.	.	.	.	X	.	.	.
	40.	.	.	.	.	.	.	.	X	.	.	.
	50.	.	.	.	.	.	.	.	X	.	.	.
	60.	.	.	.	.	.	.	.	X	.	.	.
	70.	.	.	.	.	.	.	.	X	.	.	.
	80.	.	.	.	.	.	.	.	X	.	.	.
	90.	.	.	.	.	.	.	.	X	.	.	.
4	100.	.	.	.	.	.	.	.	X	.	.	.
	110.	.	.	.	.	.	X	.	.	.	.	.
5	120.	.	.	.	X	E.	.	.	.	.	.	.
6	130.	X	.	.	W	C	.	E.	.	.	.	.
	140.	X	.	.	W	C	.	E.	.	.	.	.
	150.	X	.	.	W	C	.	E.	.	.	.	.
7	160.	X	.	.	W	C	.	E.	.	.	.	.
	170.	.	X	.	W	C	.	E.	.	.	.	.
	180.	.	.	X.	W	C	.	E.	.	.	.	.
	190.	.	.	.	X	W	C	.	E.	.	.	.
8	200.	.	.	.	.	X.	E.	.	.	.	.	.
	210.	.	.	.	X	C	.	E.	.	.	.	.
	220.	.	.	X	W	C	.	E.	.	.	.	.
	230.	.	X	.	W	C	.	E.	.	.	.	.
	240.	X.	.	.	W	C	.	E.	.	.	.	.
9	250.	X	.	.	W	C	.	E.	.	.	.	.
	260.	X	.	.	W	C	.	E.	.	.	.	.
	270.	X	.	.	W	C	.	E.	.	.	.	.
10	280.	X	.	.	W	C	.	E.	.	.	.	.
11	290.	.	.	.	.	X	E.	.	.	.	.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

33.00	.00	34.00	30.00	34.00	100.00	32.00	125.00	30.00	135.00
30.00	160.00	31.90	200.00	30.00	250.00	30.00	285.00	32.00	290.00
34.00	310.00								

PLOTTED POINTS (BY PRIORITY) E-ENERGY, W-WATER SURFACE, I-INVERT, C-CRITICAL W.S., L-LEFT BANK, R-RIGHT BANK, M-LOWER END STA

[illegible]

	330.	.	.	.	.	.	.	.	.	I WE R.	.	.
	340.	.	.	.	.	.	.	.	.	IWE R.	.	.
6.00	350.	.	.	.	.	.	.	.	.	IWE R.	.	.
	360.	.	.	.	.	.	.	.	.	IWEL R.	.	.
	370.	.	.	.	.	.	.	.	.	IWE R.	.	.
	380.	.	.	.	.	.	.	.	.	I EL R.	.	.
	390.	.	.	.	.	.	.	.	.	IWELR	.	.
7.00	400.	.	.	.	.	.	.	.	.	I WE LR	.	.
	410.	.	.	.	.	.	.	.	.	I EL R.	.	.
	420.	.	.	.	.	.	.	.	.	IWELR	.	.
	430.	.	.	.	.	.	.	.	.	I WE R.	.	.
8.00	440.	.	.	.	.	.	.	.	.	IWELR	.	.

24JUN92 14:20:57

PAGE 3

THIS RUN EXECUTED 24JUN92 14:21:06

HBC-2 WATER SURFACE PROFILES

Version 4.5.1; September 1990

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

FOR PREMIER HOMES

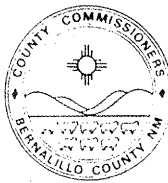
SUMMARY PRINTOUT

	SECNO	ELMIN	CWSBL	CRWS	Q	QLOB	QCH	QROB	DEPTH	TOPWID	AREA	VCH	EG
*	1.000	47.90	49.49	49.49	1150.00	.00	1150.00	.00	1.59	157.41	185.51	6.20	50.08
*	2.000	43.60	45.01	45.61	1150.00	.00	1150.00	.00	1.41	100.16	101.58	11.32	47.00
*	3.000	38.00	39.90	40.20	1150.00	.00	1150.00	.00	1.90	150.26	150.63	7.63	40.81
	4.000	36.00	38.44	38.78	1150.00	.00	1150.00	.00	2.44	128.31	139.83	8.22	39.49
	5.000	35.70	36.89	37.37	1150.00	.00	1150.00	.00	1.19	135.02	117.95	9.75	38.37
	6.000	33.50	34.66	34.93	1150.00	.00	1150.00	.00	1.16	206.71	150.29	7.65	35.57
	7.000	31.00	32.85	33.02	1150.00	.00	1150.00	.00	1.85	174.82	161.80	7.11	33.63
	8.000	30.00	31.49	31.72	1150.00	.00	1150.00	.00	1.49	141.65	150.05	7.66	32.41

24JUN92 14:20:57

PAGE 4

FOR PREMIER HOMES



BOARD OF COUNTY COMMISSIONERS

PATRICK J. BACA, CHAIRMAN
DISTRICT 1

JACQUELYN SCHAEFER, VICE CHAIR
DISTRICT 5

ALBERT "AL" VALDEZ, MEMBER
DISTRICT 2

EUGENE M. GILBERT, MEMBER
DISTRICT 3

PATRICIA "PAT" CASSIDY, MEMBER
DISTRICT 4

JUAN R. VIGIL, COUNTY MANAGER

County of Bernalillo

State of New Mexico

ONE CIVIC PLAZA, N.W.
ALBUQUERQUE, NEW MEXICO 87102

ADMINISTRATION (505) 768-4000

COMMISSION (505) 768-4217

FAX (505) 768-4329

July 22, 1992

RAY GALLAGHER, SHERIFF

PATRICK J. PADILLA, TREASURER

GLADYS M. DAVIS, CLERK

MARK J. CARRILLO, ASSESSOR

THOMAS J. MESSALL, PROBATE JUDGE

Dave Thompson, P.E.
Wilson & Company
6611 Gulton Court, NE
Albuquerque, New Mexico

RE: DRAINAGE PLAN FOR LOT 19, BLOCK 10, TRACT 2, UNIT 1, N.A.A.,
(C-22/D30) ENGINEER'S STAMP DATED JULY 2, 1992

Dear Mr. Thompson:

Based on the information received on July 2, and July 22, 1992 the plan is acceptable for Building Permit release.

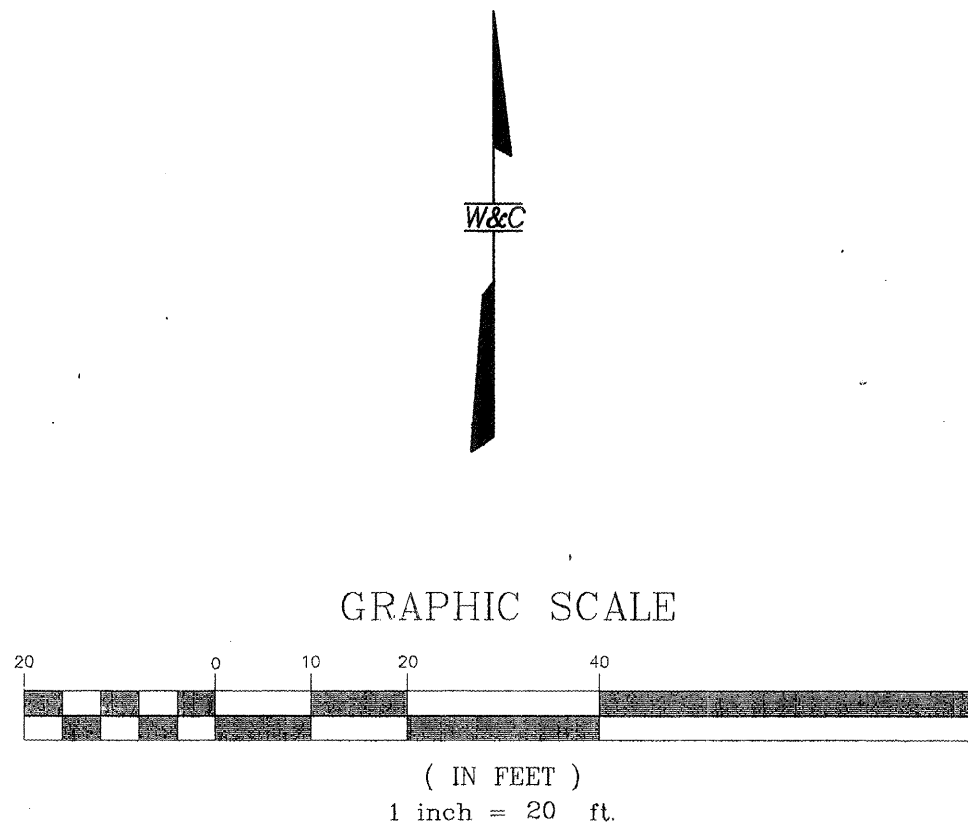
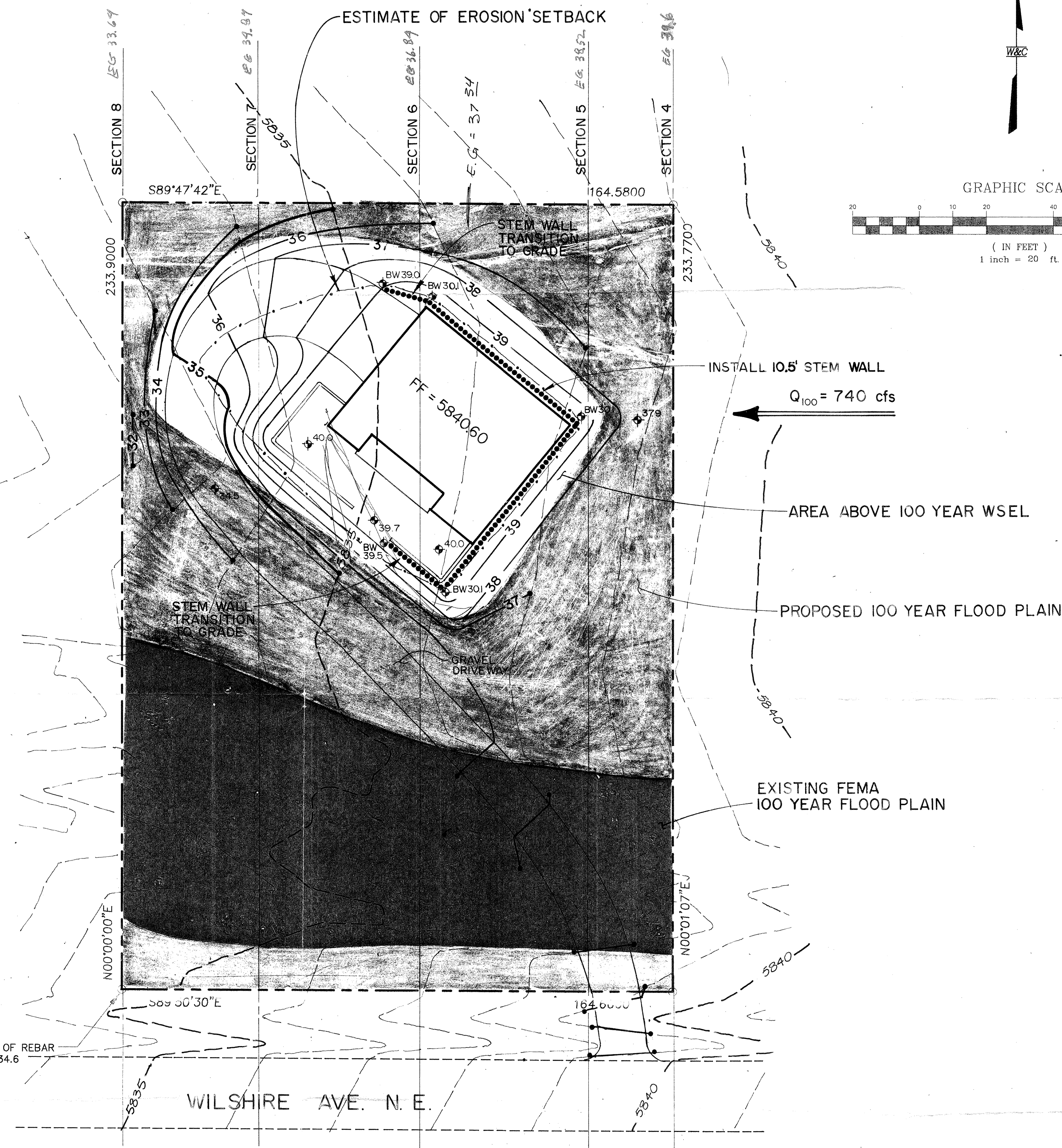
Please be advised that prior to final inspection by the County Building Department, an Engineer's Certification must be submitted and approved by this office. The Certification needs to include the footing depth as-built.

If you should have any questions, please do not hesitate to call me at 768-2650.

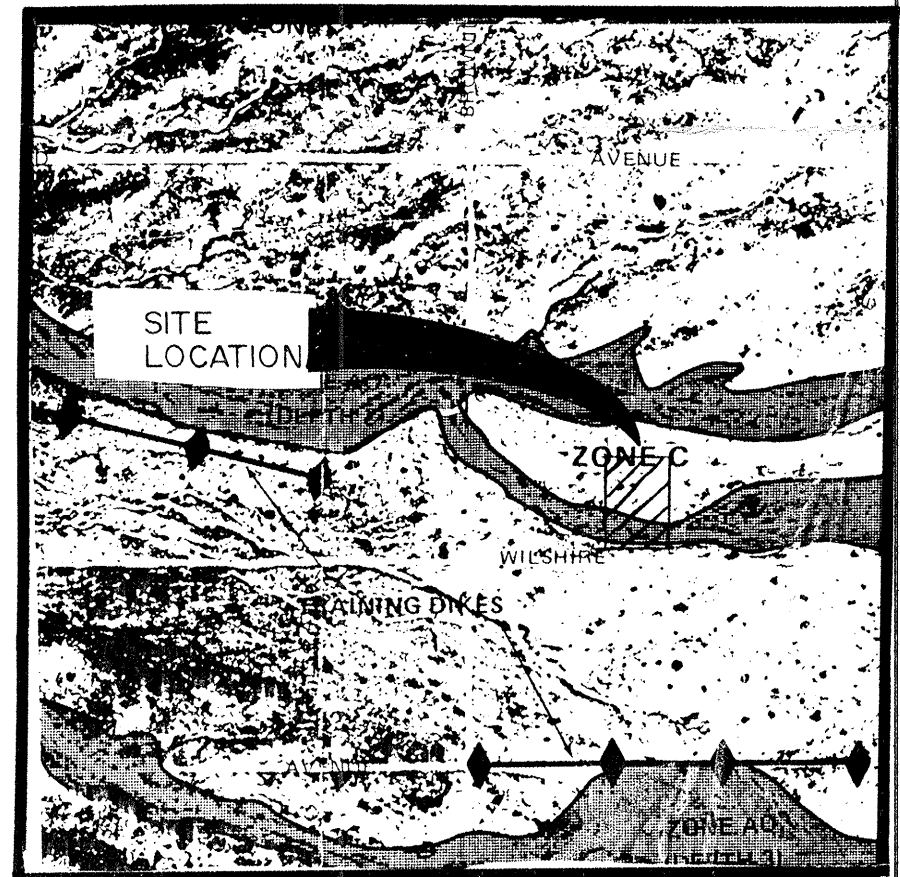
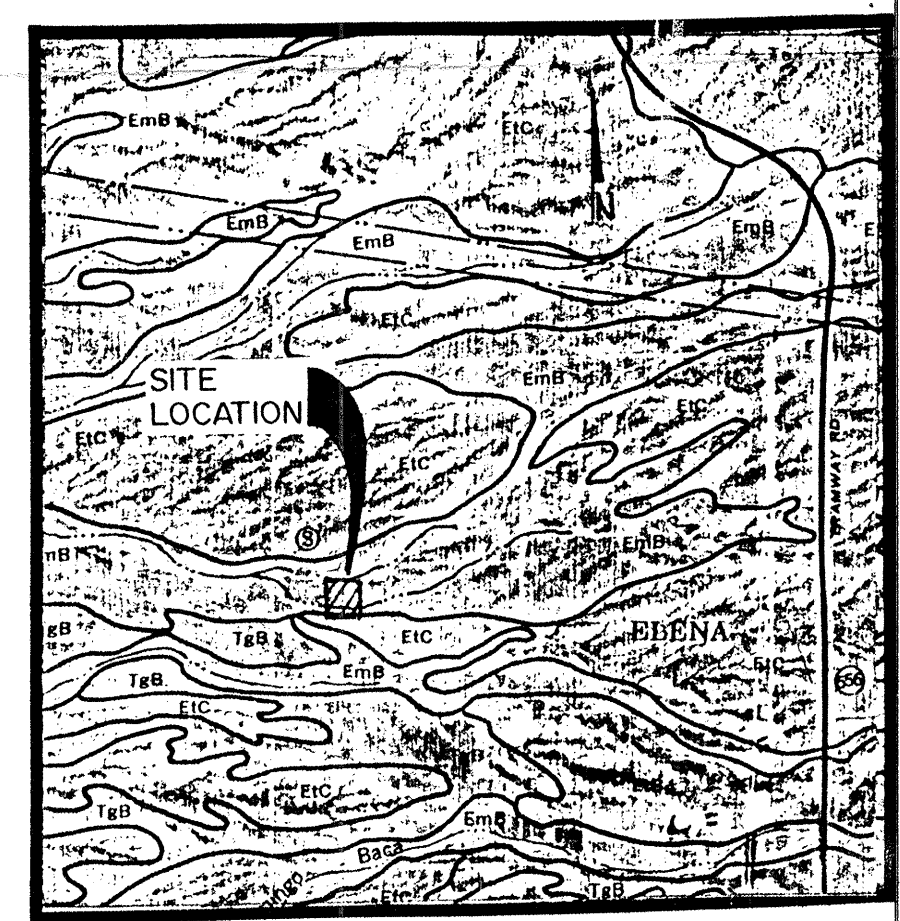
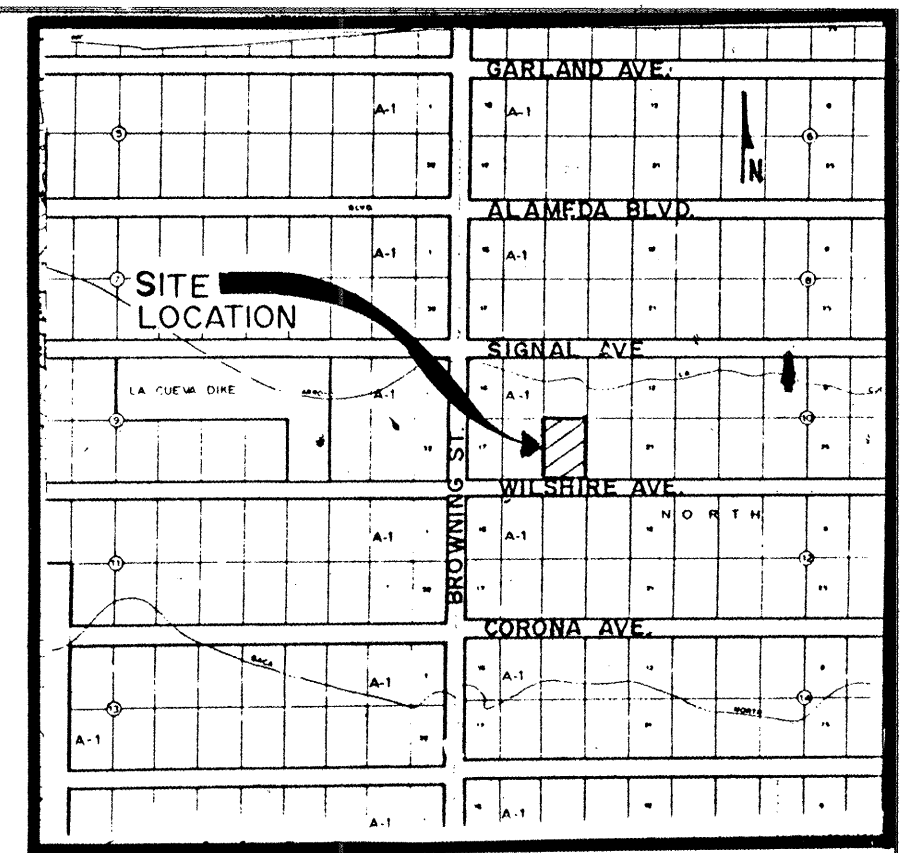
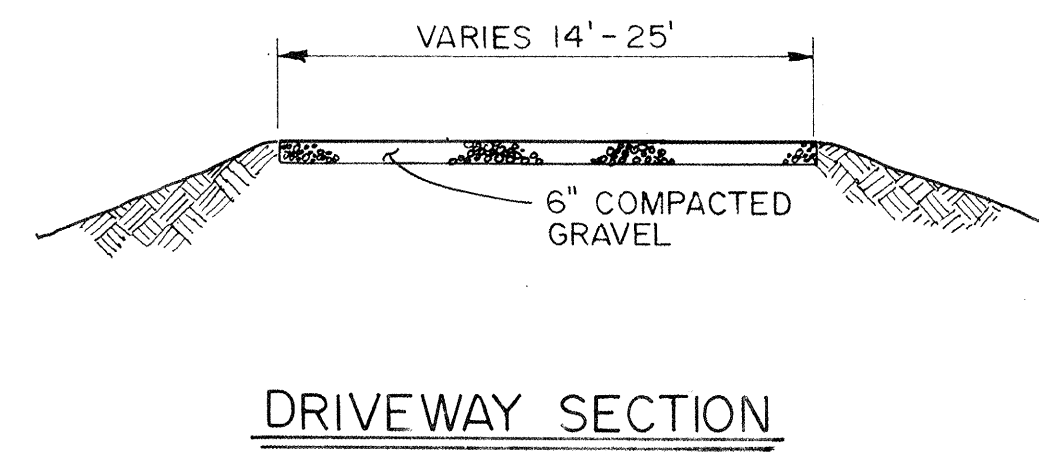
Cordially,

Gilbert Aldaz, P.E. & P.S.
County Floodplain Administrator

wp+3472



- LEGEND**
- 5840 --- EXISTING INDEX CONTOUR
 - 35 --- EXISTING INTERMEDIATE CONTOUR
 - 35 --- PROPOSED INDEX CONTOUR
 - 35 --- PROPOSED INTERMEDIATE CONTOUR
 - 379 • PROPOSED SPOT ELEVATION
 - BW341 • BOTTOM OF WALL ELEVATION

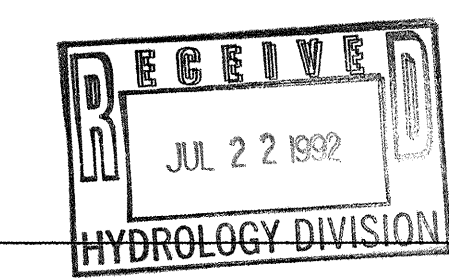


LOCATION MAP
ZONE ATLAS MAP NO. C-22

SOILS MAP
REFERENCE: SCS BERNALILLO COUNTY SOIL SURVEY
SHEET NO. 12

FLOOD INSURANCE MAP
REFERENCE: FLOOD INSURANCE STUDY
PANEL 11

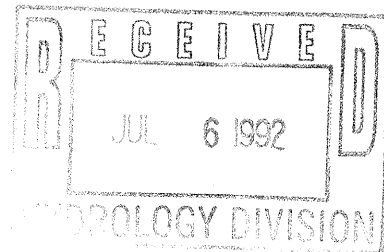
LEGAL DESCRIPTION
LOT 19, BLOCK 10
TRACT 2 UNIT 1
NORTH ALBUQUERQUE ACRES



**KORMAN RESIDENCE
GRADING & DRAINAGE PLAN**

DESIGN D.B.T.	DRAWN K.I.S.	DATE MAY 1992
		FILE NO. 92-524
WILSON & COMPANY 6611 GULTON CT ALBUQUERQUE, NEW MEXICO 87109 (505) 345-5345		SHEET NO. 1 OF 1

- NOTES:**
1. TOPOGRAPHY PROVIDED BY WEISS-HINES ENGINEERING, INC., 1100 ALVARADO NE, ALBUQUERQUE, N.M. 87110.
 2. THE CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING EARTHWORK.
 3. I, DAVID B. THOMPSON, A PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE TOPOGRAPHY SHOWN ON THIS PLAN REFLECTS THE CONDITIONS ON SITE BASED ON A SITE VISIT MADE ON 6 MAY 1992. IT APPEARS THAT NO GRADING, FILLING OR EXCAVATION HAS OCCURRED SINCE THE CONTOUR MAP WAS PREPARED.



GRANT OF EASEMENT
FLOODWAY AND STORM DRAINAGE WORKS

ROBERT AND MARY TAMEYN KORMAN

_____ (include marital status or state of corporation), Grantors, being the owner(s) of the property described herein, for good and valuable consideration, the receipt of which is hereby acknowledged, does grant, bargain, sell and convey unto the ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY, a political subdivision of the State of New Mexico, Grantee, and its successors and assigns, the permanent right and easement for drainage, flood control and conveyance of storm water and the construction, reconstruction, operation and maintenance of, and access to such facilities on, in, under, over and across the following described real estate:

The land in which the foregoing rights and easements are granted is located within Lot(s) 19 of Block 10 Tract 2 Unit 1 of North Albuquerque Acres in Bernalillo County, New Mexico and is more particularly described in Exhibit "A" attached hereto and incorporated herein by reference.

Except by the written approval of Grantee, no fence, wall, building, or other obstruction may be placed or maintained in said easement and there shall be no alteration of the grades or contours in said easement. The granting of this easement shall not obligate the Grantee to maintain natural arroyos, drainage channels, or facilities that do not meet the standards of the Grantee for design and construction, nor shall this granting require the protection of property lying outside of the easement granted. Grantee shall only maintain property and/or improvements that it specifically agrees, by written agreement filed for public record, to maintain. Unless Grantee specifically agrees, by such written agreement, to maintain property and/or improvements, such maintenance responsibility shall remain with the Grantor, its successors or assigns. Grantor shall not perform any maintenance without the prior approval of the Grantee, except in an emergency. In the event of an emergency, Grantor shall notify the Grantee as soon as practical. Safe locations for structures built on lands adjacent to the rights and easements described herein may be substantially outside of the described area.

TO HAVE AND TO HOLD the said right and easement for the uses and purposes aforesaid, unto the Grantee, its successors and assigns, forever, except that any portion of the easement granted herein shall revert to the Grantor, its successors or assigns, as and to the extent said portion is declared unnecessary for flood control or drainage by the Board of Directors of the Albuquerque Metropolitan Arroyo Flood Control Authority. Any reversion shall be conveyed by quitclaim deed.

THERE IS RESERVED to the Grantor, its successors and assigns, the right to use said lands for open space, landscaping and other purposes which will not interfere with the rights and easements hereby granted, provided that Grantor obtains Grantee's written approval for such use, not to be unreasonably withheld.

WITNESS my hand(s) and seal(s) this 29th day of June, 1992.

Robert & Nancy Korman

Mary T. Korman

ACKNOWLEDGMENT FOR NATURAL PERSONS

STATE OF NEW MEXICO)
)SS
COUNTY OF BERNALILLO)

The foregoing instrument was acknowledged before me this 29th day of

June, 1992 by Robert & Nancy Korman
(names)

Married
(marital status)

My commission expires:

9-12-93

Bonnie Ortiz
Notary Public

(SEAL)



OFFICIAL SEAL
BONNIE ORTIZ
NOTARY PUBLIC - STATE OF NEW MEXICO
Notary Bond Filed with Secretary of State
My Commission Expires 9-12-93

Monday March 27, 1995 11:14 -- Page 1

IPB

Post-It brand fax transmittal memo 7871		# of pages
To: <i>David P. Ricc</i>	From: <i>SPI</i>	
Co.	Co.	
Dept.	Phone # <i>823-92</i>	
Fax # <i>848-1510</i>	Fax #	

ELEVATION CERTIFICATION

OWNER: SCOTT PATRICK, INC.

STREET ADDRESS: 11201 WILSHIRE AVENUE, N.E.

LINGAL DESCRIPTION: LOT 19, BLOCK 10, TRACT 2, UNIT 1
NORTH ALBUQUERQUE ACRES

FEMA
COMMUNITY NO. AND PANEL : 35002 0011, DATED OCTOBER 14, 1983

FIRM ZONE AND BASE FLOOD ELEVATION: AO DEPTH 2

GRADING PLAN: DAVID THOMPSON, P.E. N.M.P.E. NO. 9677
DATED, JULY 02, 1992

PROJECT T.B.M.: SW PROPERTY CORNER, ELEV. = 5834.6

Construction of this residence is based on Bernalillo County Building Permit No. 94-828. The permit was issued based on an engineer certified and county approved Grading Plan which details the Finished Floor elevation for the residence together with building pad elevation and stem wall for basement.

The approved grading plan meets the Federal Emergency Management Agency requirements for construction within or adjacent to the referenced floodplain.

This elevation certification is based on the information contained in the referenced approved Grading Plan.

ASBUILT GRADES:

BASEMENT FLOOR= 5829.5

FINISHED FLOOR= 5840.7

GRADING PLAN GRADES:

BOTTOM OF WALL= 5830.1

FINISHED FLOOR= 5840.6

Based on the approved Grading Plan and as-built field survey performed on October 30, 1994, the elevation requirements as shown on the approved Grading Plan have been met. Further, the residence as located on the referenced lot is not within the 100 Year Floodway Boundary.

Surveyor's Certification:

I, Bernard W. Seitz, a Registered Professional Surveyor in the State of New Mexico, do hereby certify that I checked the as-built finished floor/stemwall elevations and location of the referenced residence on the subject lot and the results of that field survey are as shown on this Certification.



N.M.P.S. No. 8478

Date

10-31-94