DATA OF SEEPAGE FLOW ANALYSIS

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	[-]		Ц	Igeón	Value	es Ado	pted f	or th	e Analy	/sis
7)	¢	1 1 1 1	ation	Ċašės				
je Ge							é Flow	Anal	ysis	
									é Plow	
	4-	5								Diagrams
	4-1	6	B	lemen	t Dia	arams	of the	e Anal	yšes	

4-1 Lugeon Values Adopted for the Analysis

4	-1 Lugeon Values Adopted	for the Ana	lysis		
				Únit:	Lugeon
	tem	Measured Average	Ado	pted Va	
		Value	K1	K2	K3
Surface	Köprüçay Conglomerate	35.2	40	200	400
(Depth 40 m)	Shale and Sandstone	13.3	20	100	200
Facies	Köprüçay Conglomerate	5.9	10	50	100
racies	Shale and Sandstone	1.6	2	10	20
Sheared zone	Köprüçay Conglomerate	41	40	200	400
(Width 40 m P-1 Pault)	Shale and Sandstone	-	40	200	400
Shéared zone (Width 30 m	Köprüçay Conglomerate	9.9	20	100	200
Fault except P-1)	Shale and Sandstone	-	20	100	200
	Curtain	-	5	5	5
Grout zone	Consolidation		1	1	1

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للم الله المسلمانية في المالية المُعامَلُة المعالمَان مسلما لمشكر المسلمان المكاملة المراس من أسب

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4-2 Calculation Cases

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Permeability Coal K1 K2 K3 K1 K2 K3 K1 K2 K3 Right Bank N=R-1 -		Crout Condition	3	Without Grout	ų	Grout	Grout EL60 m (A)	(V)	CLOI	Grout EL120 m (B)	n (B)
H-R-1 - - *H-R-2A - <td< th=""><th></th><th>Permeability Coe.</th><th></th><th>K2</th><th>K3</th><th>Кл</th><th>K2</th><th>K)</th><th>۲x</th><th>K2</th><th>K3</th></td<>		Permeability Coe.		K2	K3	Кл	K2	K)	۲x	K2	K3
Harl-1 - <td>("</td> <td>, Righe Bank</td> <td>н-к-л</td> <td>1</td> <td>1</td> <td>*H-R-2A</td> <td>e i i F</td> <td></td> <td>1 1 1 1 1</td> <td>1.</td> <td>*H-R-2B</td>	("	, Righe Bank	н-к-л	1	1	*H-R-2A	e i i F		1 1 1 1 1	1.	*H-R-2B
Dam Foundation D-1-01 D-1-02 r D-1-Al D-1-A3 D-1-A3 D-1-B3 Right Bank (R-1) R-1-01 R-1-02 R-1-03 R-1-Al R-1-A3 R-1-B3 R-1-B2 Right Bank (R-2) R-2-01 -	08.13) 52110 22110	Left Bank	モーエーユ	R		#H-L-2A	1	1 1	B	1	*H-L-2B
Right Bank (R-1) R-1-01 R-1-02 R-1-03 R-1-A1 R-1-A2 R-1-A3 R-1-B1 R-1-B2 Right Bank (R-2) R-2-01		Dam Foundation	10-1-Q	D-1-02	1	D-1-Al		D-1-A3	D-1-31	1	D-1-83
Right Bank (R-2) R-2-01 -	uoj	Right Bank (R-1)	R-1-01	R-1-02	R-1-03	R-1-Al	R-1-A2	R-1-A3	R-1-81	R-1-B2	R-1-B3
Right Bank (R-3) R-3-01 -	j o a	Right Bank (R-2)	R-2-01	\$	1		8		-∎ ÷	•	1
Left Bank (L-1) L-1-01 - L-1-Al - L-1-Al - L-1-Al L-1-Al	SIP	Right Bank (R-3)	R-3-01	1	1	•	•			1	I
Left Bank (L-2) L-2-01	ert10	Left Bank (L-1)	10-1-1	9	1	L-1-A.		1		1	- 2 3 - 1
Right Bank (R-1) R-1-Al-Cl R-1-Al-Cl	V	Left Bank (L-2)	L-2-01		•	•		1 1 1	1		•
W = 2 cm R=1-01-C2 - R-1-A1-C2 - R-1-A1-C2 - K-1-A1-C2 - A1-C2	y ber	Right Bank (R-1) V = 2 mm			•	R-1-A1-C1				• • • •	
* Considered horizontal grout Li	seij. Seij.	•	R-1-01-C2	-	- - 1	R-1-A1-C2			R-1-81-C2		1
	Reme		d horizontal	grout line							

** Considered horizontal grout line in half length. Remarks: * Considered horizontal grout line.

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A.4-2

4-3-1 Result of Scepage Flow Analysis (Case of Vermeability Coefficient K1)

tradition and states of the states of the

Seepage flow 842 Crout 8. (EL--120 m) (ara/1) (1,312) (302) 773 (2,987) (810) (000'1) (1,812) (5,639) 1.000 Unit seepage flow (l/min/m) 8,42 (T-64) (12.4) (01-8) (2.50) . 1.73 40.83 (3.48) Seepage flow Crout A. (EL -- 60"m) i (utm/l) (1,991) (904) (1,312) 775 (1,004) (1,818) 852 (2,661) 718 Unit seepage flow (1/min/m) (1-64) (2.51) (4.52) 7.78 8.52 7.75 91.31 8.14 Seepage flow 1**,**680 (urm/I) 1,320 778 808 3,006 6,509 815 1,008 1,823 Non Grouted flow (1/min/m) Unit seepage (12.61) 148-04 7.78 1.65 75-4 8.15 2.52 . 100 Distance 1,100 800 400 ŝ g 200 8 E Calculated Dam foundation ġ 8 Sub-total Sub-total Crand Total 2.0 0-2 ы. 1 1 រី 1 R-2 К-3 Section <u>к</u> Ч yser) Anes Just Yueg 1191 uorantos

Remark; () shows estimated values

4-3-2 Result of Seepage Flow Analysis (Case of Permeability Coefficient X2)

Seepage flow (1/min) (3,664) (5,064) (2,264) (2,800) (1,883) (8,347) (762,21) (2,522)2,161 - 120 m) Crout B (EL. flow (l/mfn/m) Unit scepage (22.64) (18-83) (12-61) (00-1) 21.61 (4.58) 100 Y 100 Y A KINA Secpage flow (1/min) (2,715) (2,738) (3,984) (690, 6) (2,459) (070, 2) (667.5) (17,283) 2,347 Grout A (EL.- 60 m) i, to accessibly up the 운퇴 Unit seepage flow (l/min/m) (27-15) (0):(1) (13-69) (86.4) (24.59) 23.47 Name and Arrive and Arrive 1.1 7 Seepage flow (1/min) (008.4) (3,300) (10,928) 2,828 (2,963) (3,664) a water in 7,683 (6,627) (857,223) Non Grouted 2 Unit seepage flow (1/min/m) March Press, March 1999, March 1990, March 19900, March 1990, March 1990, March 19900, Ma ì 76-83 28.28 (16-50) (00-9) (9.16) (29-63) the true is the ÷ Distance 1,100 ğ 8 200 800 <u>700</u> 8 ŝ E Sector Sector din the Dam foundation Ø 0.2.6 Sub-total Sub-total Grand Total Calculated ĩ ×-2 5 R-3 <u>,</u> 21 Section 2 CL3CK 20TOC 00 Right Bank Left Bank

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and the set of the product of the set of the

Remark: () shows catimated values

Result of Seepage Flow Analysis (Case of Permeability Coefficient K3.)

(4-3-3

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Seepage flow (078 (2) (3,447) (4,264) (ura/I) (5,584) 2,866 3,290 (12,714) (1,711) (23,291) Grout B (EL - 120 m) flow (1/min/m) Unit seepage (19-20) (86:98) (10.66) 28.66 (34.47) 32.90 Secpage flow (1/min) (4,642) (15,372) (6,752) (4,167) (5,152) 3,978 (9,139) (29,293) 4,602 Grout A (EL. - 60 m) Unit seepage flow (l/min/m) (23,21) (77*8) (41.67) (12.88) 39-78 46, 02 Seepage flow (1/m1n) (14,209) (6,104) (8,872) (6,479) (6,776) (4.6,670) 5,230 (20,206) (12,255) Non Grouted Unit seepage [1/min/m) (142.09) (30.52) (16-91) 52-30 (60.11) (54.79) 1. S. S. Distance 200 001.1 ŝ 808 **6**4 **6**4 ŝ 8 8 E $\{1,2,\dots,n\}_{n=1}^{n-1}$ and the second management of the second s Sub-total 0.7 0 2-0 Dam foundation Sub-total Grand Total Calculated 4 L N.S. 1-2 1-2 25 រី Section 2-7 t \mathbb{R}^{2} . solution Solution Aned JASIA Left Bank

Remark; () shows estimated values

Å-4-5

4-4-1(a) Inflow & Outflow of Seepage Flow (E-R-1)

	Joint Number	Joint Seepage (2/min/m)	Percentage for at Joint	r Total Seepage (2) Accumulated	Joint Number	Joint Seepage ((2/min/m)	Percentage for Tr at Joint	Total Seepage (2) Accumulated) Anan Jank (
		5.948	24.0	25	716	10.496	42.3	42.3	
	. —	5-478	22.1	52.5		1.718	6.9	62.8	None
		1.894	2.6	61.3	332	1.030	-1	67.0	
		0.991	0 0 7 c	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	342	0.383	is a	58°5	
	÷.	0.582	2	70.6	372	\$79.0	500	72.9	
		0.364	5.1	72.1	379	0.631	2.5	75.4	
		0.668	2.7	74.8	402	0.421		2	
		0.975	6	78.7	614 	0.122	ń (17.0	
		75-0							
		0.403		C•79	9 TC -			0.00	
	-	0.430		55	444	0.020		1.18	•
		77747 784 0	} ~		477	700-0	14	81.5	-
		115		1	147	0.402		83.1	
	:		3	. 3	687	0.014		83.1	
		0.100	7-0		107	0.016	10	83.2	
	÷	AC4 0	<u> </u>		087	0.000		53.25	
		10.0	0.2	2.70	167	0.001	• •	63.2	-
		100.0		07.2	997	C10-0	•	837	
		0.00		97.2	087	0.217	0.9	2.1	
		10.0	ò	97.2	419	0-322	1.5	85.4	
		ò	ò	97.2	485	0.024	7.0		· · ·
	:	0.001	Ó	97.2	787	0.089	4.000	6.02	
	•		D (2.74			10	4.98	
			0.2		474	0.096	0.4	86.8	
0.300 0.300 0.300 0.300 0.301 0.302 0.303 0.304 0.305 0.306 0.307 0.308 0.308 0.309 0.306 0.307 0.308 0.309	-				697	164.0	1.7	88.5	
0.119 0.011 0.011 0.011 0.011 0.011 0.011 0.000 0.011 0.000 0.011 0.000 0.011 0.000 0.011 0.000 0.000 0.000 0.		0	0	98.5		0.306	1.2	69 7	
			 0.5.			0.377	<u>,</u> 1	91-2	
0.000 0.0000 0.0000 0.0000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.		0-023	4	8	526	671.0		\$ - C	
23 23 23 23 23 23 23 23 23 23			anne at s 0+0 •erse A. s		528	0.017		92.2	
0.001 0.			> <	4 90	3	0.002		2.2 minutes	the state of the s
0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.05 0.0		ò	••	8	23	0.002	•	92.2	
0.001 0.0024 0.0024 0.0024 0.0024 0.002 0.002 0.002 0.001 0.021 0.001 0.021 0.001 0.02 0.02		0.00L				0.001	and have the most of the		4. Constrained for the constraint state of the formula of the second sector of the sector
0.003 0.024 0.024 0.027 0.007 0.024 0.027 0.024 0.027 0.02 0.02 0.02 0.02 0.02 0.02 0.0		0-001	• • •		53	0-001	•	24 N	
0.024 0.1 75.6 0.1 75.6 0.11 0.21 0.21 0.21 0.21 0.21 0.21 0.21		0-003	1 2		1	0.000		\$	
	_	0.024	0.1			0770			
506 0.111 0.111 0.44		0.007	1	(11) - 110		0-102			ուներիներից ուղերին էր հետում է երկելու երկելին են երկելու հետում էրկելու է երկելու է երկելու է երկելու երկելո Դերկելիներին հետում էրկելու էրկելու էրկելու էրկելինել էրկելու էրկելու էրկելու էրկելու էրկելու էրկելու էրկելու էր
						0.946	1.0	1.46 .	and the second second second second and the second s
					33		4.0	18	
					169	5		iii An	•
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	00000000000000000000000000000000000000

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4-4-1(b) Inflow & Outflow of Seepage Tlow (H-L-1)

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(H-R-2A)	
Flow	
Seepage	
벙	
Outflow	
-15	
Inflow	
4-4-2(a)	

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: **A-4-9**

4-4-3(a) Inflow & Outflow of Seepage Flow (H-R-2B)

Section: Xight Bank (EL. 80m) Reservoir W.L.: EL. 150.00m Downstream W.L.: EL. 40.00m Grout Curtain: 2 = 1100 m Permeability Coef.: X3 an sources Condition 1 Name 201 Tocal Seepage (2) Accumulated 97.9 100.0 X 6.00 101 Percentage 4444 18.2 Joint Seepage a/ara/a 00.001 Joine Number OUCTION Total 1 Percentage for Total Seepage (2) at Joint Accumulated 100.0 1 8.00 9.2 8-66 4 4 0 0 0 -7 0 3 0 00 00 0 Saepage 100.00 %/min/m Joint Seepage 0.065 0.572 Joint Mumber Tocal Inflow

	Joint Saepage Percentage for Total Saepage (2) (12 atr/ar at Joint Accaudiated		-	7.6 8.6 36.0				0.00		200	1.5 70.0			100.2		0.2 100.0	· · ·		100-00 X
Ourer town	Joint Number	180-	722	174	នះ	2 2 2 2	2			11	\$6. 03.	ġ.	6 4 2		18 1 8 1 8	\$ <u>7</u>	3 22	001	;
	Jointe-Seepage	621-41	4839	5.125 5.125	5-022	0.373	0.012	0.187	3.866	4-415 6-415	6-211	0.007	0.070	0.016	óó	0.111 1.458	2.430	0.208 0.257	60 25 2/min/m
	Percentage for Tot at Joint		7.6	6 0	1.9	60	i	5.0	4. 6.	10.3	0.0			7	5 0	2.2	4 6 6 7 6 7 6 7 7	000 000 000	
	al Seopage.(2 Accumulated	27,5	35.3	2010	58.3	5.0°		62.9	1.22			- V- V0	6.16	500 100		4.79	0.001	2001 2001	100.0 2

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Section: Right Bank (EL. 80m)	Reservoir W.L.: ZL. 150.00m	Downatream Willin Kui 40.000 Daars Otteats : 2 = 5505																•																								「「「「「「「」」」「「」」」「「」」」「「」」」」「「」」」」」「「」」」」」	가는 가슴 가슴 가슴 것 같은 것이 같다. 것								
Total Seepage (2) Accumulated	10.6	22.2	30.0		0*20	0.04		3 . A .	0.24	53.5	57.4	5° 0 1			60.5	61.3	64.6-		29	0.40	64.99	65-0			× • • • •	69 °C	- 69-8 ·	70.5	70-7	71				3.0	0110	83.0	94.4	95-2	2.56	95.6	96-0	1.20	01.7	i e	2				6-66	100-0	100.0 2
Percentage for at Joint	10.6	\$.11	7.8		n c N c	N -		4	3.4	6°0	0.0		\		0.7	0.8	e		1	77	40	0.7		4 <		2.7	0 19	0.7							7	า	2.2	9.0	0.3	10					1.		0.1	0.4	2.0	T -0	
Joine Seepage (L/min/m)	12.272	11.426	8.989	6.388	7.014	1.257	866.7	5-168	. 3.674	1,091	4.490				0.189	0.875	100		ATT - A	0110	0.081	0.012		0-1771	2.077	060° C	0.230	0.850	046	100 0	10040			20.0	3.720	1.473	2.541	0.904	0.380	1.102	- 202				1000	040*0		0.462	2.357	0.075	
Joint Number	716	312	330	332	342	348	372	379	402	517	414	747	3 ; -1 c 4 ·	424	447	. 446	177		201	488	687	107	4 ~	924	087	479	485	787	40.7	ġ ŗ			A 4	3	404	526	8	202	202	Ş	407			2	5	248	543 Sta			538	
Total Seepage (%) Accumulated	•	6.9	16.7	23.0	27.2	30.8	23.9	36.1	41.6	52.2			0.40	2.00	84.6	37.6		000	5.45	93.2	03.5			93.7	93.7	93.7	01.7					0.00		67.1		- 1.66	99.1	90 F	1-00			1.00			6 66	3	200 100 0 V	 a state the first of a state of			
Percentage for at Joint	۲.4	2.6	9.8	6.9	-1-1	2 1	1.1	~i ~i	5.5	10.6				-	18.8	0.1			6 0			2	1	40	0	0	ć	ò	- > <			ç		0.2	<u></u>	10	0		• •			-1 (a o	4.0	0	0.1	•		-	
Joint Seepage (2/min/m)	010	3.041	11.310	7.300	4.830	4.158	3.619	2.573	. 907-9	12-268				0.190	21.776	1.413		1	110-1	. 4.298	181			-0°026-	0.008	0-007				1000	Z.7111	0	1.202	0.227	1.510	0.048	0.00						200	120.0	37.0	0	÷.	a set and a set of the	A transmission of the second s	<u> </u>	
Joine Mumber	010	218	227	216	22	214	11	11	Ĩ	22			8	207	206			197	겈	142		5	3	21	187	194				1	66	8	2	74	23	1	5				2	ř	3	8	3	70-			an seasonada a su a		

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4-4-4(a) Inflow & Outflow of Seepage Flow (E-R-2C)

e Flow (H-L-2C)	•
Nold	
Seebage	
. Ye	
s Ontflow of Seebage	
2	5
Inflow &	
4-4-4	

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Condition	Percentage for Total Seepage (X) Section: Left Bar	25.9 25.9	33.8 JOWT 1000 1000	7.0 40.8 Permability Cont	6.64	6 .3						0.0	9.2	5.0 X	95.3	1.0	95.6		0	0+2 92-8		¢.0		10.0	
Ň	Joint Number Joint Seepage			174 5.258					114 0.020	110 0.241			94 6.905		92 0.008		83 0.1158 42		· ·	79	<u>.</u>		10 0.212		
outtion						37.4	-		69.¢				0.0		84.6 6	91.2	100.0	2 40 C	8.66	100.0					
	Joint Seepage Percentage for Total Seepa				•			7.674 10.2		0.0	0		-	5.690	0.927	1.780 Z.6				0.168	· .	- 			
Thereway	Jodne Number Jod		161	007	404	201	702	22	012	18	12	A	2		18	22	299T	167	897	32					

X-4-13

4-4-5 Inflow & Outflow of Seepage Flow (D-1-01)

11/10

OUEFLOW

· · · · ·	
Total Seepage (%) Accumulated	8629677788888898898989999 6438349998899899999 643834999749559899999999999999999999999999999
Parcantage for at Joint	8449444444444 844944444444444 844944444444
Joint Seepage (2/min/m)	121-0 287-0 287-0 287-0 287-0 287-0 287-0 287-0 297-0 207-0 297-0 200-0 200-0 200-0 200-0 200-0 200-0 200-0 200-0 2000-0 2000-0 200000000
Jodne Number	**********

Permeability Cost:: Ki									-								-
67288888888888888888 6440488888888888888888	100.0 2	: : : :		 			· 		-								
8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9							- - -	• .	-		• 1 •			and the second			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16.80 2/min/m										•		-	 A state of the second state of th		· · · ·	
18883888888888888888888888888888888888	Total					-		1. 2		 				[1] Looker and Land Philas and Astronomy 1. And Astronomy Astronomy Astro-	and we are a subsected for the second se		
23555583282828888 4840044000844840	100.0 2				•				-	•			•			• . -	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							••••				-		 - 				
0.252 0.252	16.80 2/min/=	•					-					•		a area a construction of a second second	and the second se		
145432233232222222	Total		-	•										an an an an ann an Anna Anna Anna Anna	and the second se	Name of the second s	

с. •

Section: Dem Foundation Reservoir W.L.: ML. 150.00m Downstream W.L.: EL. 40.00m Grout Curtain: None Permeability Cosf.: Ki

56.3

56.3

504.6

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Condition

Joint Number Joint Seepage Percentage for Total Seepage (2) (2) at Joint Accumulated

A-4-14

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Flow (D-1-02)		
Moly	• ,	
Seepage		
8		
Inflow & Outflow of Seepage		Oueflow
A VOLLAR		
4-4-6		,

Condit tion	Den Fou	Mastron Wills III. 40.00m Downstram Wills II. 40.00m Grout Curtains Noos Parmeability Costs. K2			
	Seepage (2) cumulated	ૡૡઌઌ ૡૡઌઌૡૹૹૹૢૢૢૹૢૹૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢ	x 0.001		
	Percentage for Total at Joint Ac	\$\$\$\$\$\$\$\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		•	
	Joint Seepage (2/min/m)	47.23 4.1788 4.17888 4.17888 4.17888 4.17888 4.17888 4.17888 4.17888 4.17888 4.17888 4.17888 4.17888 4.17888 4.17888 4.17888 4.17888 4.17888 4.17888 4.178888 4.178888 4.178888 4.1788888 4.1788888 4.17888888 4.17888888888888888888888888888888888888	76.83 2/min/m		
Outtow	Joint Number	กลิลิสสสสสลิลสสส	Total	·.	
	Total Seepage (1) Accumulated	૱ ૱ ઌઌ૱ ઌઌ૱ ઌઌ૱ ૱ ઌઌ ૱	100.0 2		
	Percentage for Total Saspage at Joint Accumulated	9978767799897779883			
	Joint Seepage 1	\$ 25 25 25 25 25 25 25 25 25 25	76.83 &/min/m		
Inflow	Jofat Munber	***********	Tocal		

A-4-15

4-4-7 Inflow & Outflow of Seepage Flow (D-1-Al)

Dam Foundacion	N	-	
Condiction Section :	Permerbility Coef.: Permerbility Coef.: Permerbility Coef.:		
for Total Saepage (2) Accumulated	ૡૹૡૹૹૡૢૡૢૡૹૹૹૡૢૡૢૡૢ ૡૹૡૡૹૡૡૡૡૡૡૡૡ ઌઌૡૡૡૡૡૡૡૡૡૡ	100.0 2	
Parcentage for To at Joint	499994444449494444 499994444449494 99999844444994	· · ·	
Joint Seepage 1	440000000000000 ***********************	8.52 &/min/0	
Joine Number	\$ ** ****	Total	
total Seepaye (1) Accumulated	10 10 10 10 10 10 10 10 10 10	100.0 X	
Percentage for Total Secraye at Joint Accumulated			
Joint Seepege 1) (2/min/m)	0.255 0.2570 0.2570 0.2570 0.2570 0.2570 0.2570 0.2570 0.2570 0.2570 0.2570 0.2570 0.2570 0.2570 0.2570 0.25700 0.25700 0.25700 0.25700000000000000000000000000000000000	8.52 &/min/m	
Johne Number	***************	1015 1015	

A-4-16

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4-4-8. Inflow & Outflow of Seepage Flow (D-1-A3)

Al Sample (2) Accumulated Joint Number Joint Sampage for Total Sampage (2) Accumulated Saction: Das Youndarton Saction: Das Youndarton (2/min/m) Saction: Das Youndarton Saction: Das Youndarton (2/min/m) Saction: Das Youndarton Saction: Das Youndarton (2/min/m) 23.2 23.2 8.167 17.7 17.7 27.7 23.2 23.2 5.12 23.1 Downstream W.L.: En. 6 35.1 Downstream W.L.: En. 6 35.1 20.7 23.2 23.2 2.002 17.4 35.1 Downstream W.L.: En. 6 35.6 Downstream W.L.: En. 6 35.6 23.2 23.2 2.095 17.4 35.1 Downstream W.L.: En. 6 0.0.9 23.2 23.2 2.092 17.4 35.1 Downstream W.L.: En. 6 0.0.9 23.1 2.195 2.195 2.195 5.2 5.2 23.2 2.195 2.15 2.195 5.2 5.2 23.2 2.17 2.1 2.1 Downstream W.L.: En. 6 23.3 2.16 4.9 5.2 5.2 23.3 2.15 2.15 2.15 5.2 23.2

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Å-4-17

Condicion	Section: Dam Foun	Remervar W.L.: ZL. 200.000 Downertran W.L.: ZL. 40.000 Grout Curtain : ZL1200 Permembility Coef. : Xl		
TOEAL Seenage (2)		48248885488888888 78648888888888 78648784888888888	н 100-0 1	
10		4700444444444444 470044444607874 7044984444607874		
-	(2/min/m)	44000000000000000000000000000000000000	8.42 L/ain/n	
	Joint Number	******	Tocal	
	ACCUMULATED	10888889494949494949999 088888894949499999 08899988889494949999999999	7 0.00 X	
	Joint Seepage Percentage for 10th Nechania (2/min/m) at Joint 1 Accumula	ઌ૿ૢૢૢૢઌઌઌઌઌઌઌઌઌ ૱ૢઌઌૡઌઌઌઌઌઌઌઌ ૱ૢઌઌૡૡઌઌૡૡૡૡૡૡ	-	
	Joint Seepage		3.42 &/atu/w	
2017 1117	Joine Number	888888888888888888888888888888888888888	Total	

4-4-9 Inflow & Outflow of Seepage Flow (D-1-B1)

4-4-10 Inflow & Outflow of Seepage Flow (D-1-B3)

TOLI Seepage (X) Joint Number Joint Seepage Percentage for Total Seepage (X) Accumulated		100.0 2 Total 28.67 2/min/m 100.0
Percentage for Total Seep. at Joint Accumuli	9	
Joint Seepage (2/min/m)	28822222222222222222222222222222222222	26.67 2/m10/m
Johnt Number	NAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Total

4-4-11 Inflow & Outflow of Seepage Flow (R-1-01)

Condit tion	Section: Right Bank - 1	Magrvar W.L.: ZL. 40.00m Bownertan : NL. 40.00m Crout Greath : Nha Parmaability Coaf.: Kl		
	<u>a</u> [14228888 4022848 202246	100-0 2	
	Percentage for Total Seepage at Joint Accumulated	40 40 44 44 44 44 44 44 44 44 44 44 44 4		
	Joint Seepege (2/min/m)	-0- 2.842 2.508 1.0449 443 445	m/utu/% 81.7	
Ouction	Joint Number	048004 777777 777777	Total	
	Total Seepage (X) Accumulated		, 10010 x	
	Percentage for Total Sae at Joint Actumu	2862986444444 466242844444444	· · · · · · · ·	
	Joint Seepage () () () () () () () () () (0.396 0.678 0.678 0.678 0.560 0.560 0.560 0.560 0.560 0.055	7.78 &/m&a/m	
THOSE A	Joine Number	99885333333333333333	Total	

			4 4 1	Oucflow				Condition
Joint Number	Joint Seepage	Percentage for	Total Seepare (2) Accumulated	Joint Number	Joint Seepage (2/min/m)	Percentage for at Joint	Percentage for Total Seepage (2) at Joint Accumulated	Righe 3.
12222233333333333333333333333333333333	0.918 0.928 0.928 0.928 0.928 0.928 0.928 0.928 0.928 0.937 0.9190000000000	4444666440409640 4444666440409449	ur Jüjjjyyyyyyyyyyyyy dodor 4 dd 4 dd 9 dd 9 do	4 8995	1. 505 1. 100 1. 505 1.	44960 12223	1951 9640 1964 1964 1964 1964 1964 1964 1964 1964	Magervoir W.L.: M. J. Downetream N.L.: EL. Fermeablinty Coef.: None
Total	29-01 &/min/m		100-0 2	Total	28.28 &/min/m		100.0 2	

4-4-12 Inflow & Outflow of Seepage Flow (R-2-02)

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A-4-21

- 1 150-00m 26 X2

4-4-13 Inflow & Outflow of Seepage Flow (R-1-03)

Condition	And I	Reservoir W.L.: ZL. 100.00m Downstream W.L.: ZL. 40.00m Crout Curtain : None Permeability Coaf.: N3		
	Total Seepage (2) Accumulated	20.22 29.49 20.00 20.00 20.00	100.0 %	
	Percentage for Total Seepage at Joint Accumulate	8884 98884 99994		
	Joint Seepage (2/min/m)	10.548 117.554 114.01 7.603 7.603 7.185	Ó	
Overlow	Joins Number	178 178 177 177 177	Total	
	Tocal Senpage (X) Accumulated	440184488888888888888888888888888888888	100-02	
	Percentage for at Joint	ฯผฯฯฯผูวี่สีวี่2000090 ชั่วชั่นจ์ผู้ชั่นจำบุ้มุ่างมี		
	Joknt Seepage		53.56 &/min/m	
Inflow	Joint Number	20222222222222222222222222222222222222	Total	

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Condition	Right Jank -	Reservorr Hulli - 20-000 Dounstream Will: 21-40-000 Permeablikty Cost.: X1 Permeablikty Cost.: X1		
14	for Total Seepage (2)	22882 47986 47986	100.0 2	
	Percentage for To at Joint	22222 27222 24947 2	· · · · · · · · · · · · · · · · · · ·	• •
	Joint Seapage	2.110 2.428 2.4387 2.438 2.438 2.438 2.438 2.438 2.438 2.438 2.438 2.438 2.438	7.75 &/min/m	
Outlow	Joine Number	1981 1911 1911 1911 1911 1911 1911 1911	Total	
	otal Saepage (X) Accumulated	2448844858686888888 24449962544964666	х 100.0	
	Percentage for Total Saspage at Joint Accumulated	, 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
:	Joint Saapaga (2/min/m)	22222222222222222222222222222222222222	a/uta/2 16.8	
Inflow	Jofac Number	REESESSESSESSESSESSESSES	Total	e Series Series Series

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4-4-15 Inflow & Outflow of Seepage Flow (R-1-A2)

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Section: Right Bank - 1 Reservoir W.L.: EL. 150.000		:	
	404 48490 48490	100-0 2	
Į	44844 44644		
	4.075 8.072 5.247 1.500 1.500	m/urm/% 97.22	
Joint Number	48004 48004	Total	
Percentage for Total Seepage (1) at Joint Accumulated	4 6 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	70.00 Z	
ercentage for a	42224444444 42244444444 42444444444444		
Johnt Seepage 1 (2/mtn/m)	0.274 0.767 0.767 0.767 0.757 0.757 1.225 0.725 0.725 0.725 0.725 0.725 0.725 0.725 0.725 0.725 0.725 0.725 0.725 0.725 0.725 0.725 0.725 0.725 0.725 0.757 0.725 0.7570 0.7570 0.7570 0.7570 0.7570 0.7570 0.7570 0.75700 0.7570000000000	a/uya/8 97.62	
Joine Mumber	252223222333333333333	1	

(Ev-1-X)		
VOLY		
Seepage		
¥		
Outflow		
16 Inflow & Ourflow of Scepage Flow (R-1-A3)	•	
4-4-16		

(2) Section: Right Bank	Rassrvoir W.L. El Downstraam W.L. El Crout Cirtain - El Permeabilitry Cost :		
for Total Seepage (2) c Accumulated	499 77 89 29 29 29 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	100.0 2	
Percentage for at Joint	34.46 34.46 27.1 6.5 6.5	-	
Joint Seepage	6,519 10,789 6,136 6,136 2,602 2,602	39.78 &/min/m	
Joint Number	186021	Total	
for Total Saspage (2)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100.0 2	
	०ननननसमुख्युर्ध्वव्वव्वन्द ४७४५४४४४४४४४४४४४४	- - -	-
Joint Seepage	00000477140000 20000047714 2000004724 2000004724 20000004724 20000000000	29.78 &/mia/m	
Joint Number	1822531112333333111	Total	

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4-4-17 Inflow & Outflow of Seepage Flow (R-1-B1)

			-	
ет. 1	81. 250-00 81 40-00 1 120 1 120 1 120 1 120 1 120			
Condition Soution: Right Bank	Regurner N. L. : EL Downstroim N. L. : EL Grout Curtain : EL Permoability Coaf. : Permoability Coaf. :			
	27.3 587.4 94.4 1000.0	100.0 2		
rercentage for T at Joint	24242 24742 24742	:		
Joint Svapane Percentane for total Saupane (i/min/m) at Joint Accumulated	2.108 1.758 0.1270 0.427	7.73 L/min/w		
Joine Number	18607 1877 1877 1877 1877 1877 1877 1877 18	Total		
total Scopage (") Accumulated		100.0 2		
Percentage for Total Seconds of Joint Accumulated	N99999555434000040			
Joint Seopage		8.29 L/min/m		
Joine Number	2688888338884 <u>8</u> 4444	Total	•	

(R-1-B2)
FLOW
Seepage
¥
Outflow
48
Tuflow
-

50 4044447387000040 92 472644644744444	Porcentage for Total Meshave (1) Joint Soupare (1) Joint Soupare (1) Cundition	10-9128338888888888888888888888888888888888	100.0 % Total 21.61 2/min/m 100.0 %
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4-4-19 Inflow & Outflow of Seepage Flow (R-1-B3)

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(r-2-01)	
PLOV	
Seepage	
Š	
Outflow	
્ય	
Vollar	
4-4-20	

Joine Number Joine Soonaye Percentance for Total Boupake (2) ((min/m) at lette Accumulated Survision: Right Buck - 2	25.3	Le 155. 25-6	0.889 XY40 X	0.27. 10.5	4.6				· ·									Total 4.34 2/min/m 100.0 2	
Total Snopare (2)	23.9	\$¢.0	18. 6	- 4	57.7	2.5	\$**\$	\$.\$	97.2	97.40 67.5	97.6	98.1	98.4 04 A	96.6	98.9	100.0		100.0 2	
Percentage for be Joint	23.9.	10.1	4.8.	2.2		12.0	346	7	••• • •	4 6	100	0.3		19 F	1.0	4 9 0 0			
Joint Secpage	1.161	0**0	0.232	-007*0	252-0	0.582	1.068	0.052	0.028	/10-0	0,002	C10.0	5.0.0	110.0	0.003	0.02%		4.85 2/min/m	
Joint Mumber	267	22	251	ส	226	16	5		222		97	29	197	163	591	411	}	Total	

4-4-21 Inflow & Outflow of Seepage Flow (R-3-01)

ניואק דבדיווו מישק דבדיווו	Switcion: Right Bank - 3	Permerbility Guess KI		
	Percentage for Tocal Seupage (2) at Joint Accumulated	4780 4440 4940	700.0 %	
	Percencage for 1 at Joint	4974 4474 4446	-	
	Joins Seopage (() min/m)	0.717 0.531 0.113 0.113	m/mim/m 1.65 k/min/m	
Ouction	Joine Number	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Total	
	cocal Seepage (%) Accumulated	044444444444 46444 46446564444488845486	100.01	
	Percentage for Total Secondry at Joint Accumulated	०५०००००५०००००५५ वर्षेत्रेय्थ गर्नर्भग्रेक्ठिर्दे ने व्वन्त्रेक्ठ्रेय्थं	· · · ·	
	Joine Seepage (2/min/m)	5.558 5.558	1.79 &/ata/m	
Inflow	Joine Musber	877878222886666666883	Total	

untathmo	Section - Left R	Kewervold Wills EL Crout Curtain " None Parmeability Coof. :		
No./	Percentage for Total Segnage (3)	8.82 8.62 8.63 9.63 9.63 9.63 9.63 9.63 9.63 9.63 9	100.0 2	
	Percentage for at Joint	98894 98894 99443		
	Joine Seepare	2.132	8.15 2/min/m	
	Joint Number	1122223 1122223	Total	
	Total Seepare (2) Accumulated	444446446786688 444646446446	100.0 X	
		274442280890940 440849224242488		
	Joint Seapage Percentage for (2/min/m) at Joint	0,000 0,000000	8. 21. 8	
	Johne Mumber	*******		

4-4-22 Inflow & Outflow of Seepage Flow (1-1-01)

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۔ در	は、 1100-00 日日・ 111 - 40-00 日日・ 111 - 40-00 日日 111 - 40-00 111		
	Necton: Late Sector - A Devertor W.L.: EL 4 Croue Curtain: EL 4 Purmenbility Coel.: KI		
otal Scopage (2)	30.9 30.9 81.2 100.0 100.0	100.0 2	
Percentage for Total Seopage	2002 2002 2002 2002 2002 2002 2002 200		
Joint Soopayo		8.14 2/min/m	
Outflov Totar Number	112222	Total	
fotal Seepaye (")	Accumulated 22.25 23.25 23.25 23.25 25.25	100.0 2	
Joint Septage Percentage for fotal Seepa	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		
Joint Seopage	(% ************************************	8.56 L/mtn/m	
	1000 1126 1126 1126 1126 1126 1126 1126	Total	

4-4-23 Inflow & Outflow of Seepage Flow (I-1-Al)

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4-4-24 Inflow & Outflow of Seepage Flow (1-2-01)

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CondX elon	Lafe	Reservoir Wils I munico Doumetream Wils III 40.000 Crout Curtain: None 40.000 Termeability Ceef.: Ki	
	Percencage for Total Seepage (2) at Joint Accumulated	4014478 4044488 4946681114664466	100.0 K
	Percentage for at Joint	444444 444444 444444 444444 444444 44444	
	Joint Seepage (2/min/m)	00000 0010 0010 0010 0010 00000 0010 0010 00000 0010 00000 0010 00000 0010 00000 00000 00000 00000 00000 00000 0000	2.52 &/min/m
ouction	Joint Number	38333338588883688	Total
	for Total Seepage (2) Accumulated	\$	700 Q X
	Percentage for at Joint	૪ૻૻૻૺૡૻઌૻૻૺૢૻૺૡૻૡૡઌઌઌઌઌઌઌઌઌઌઌ ઌૻૡૻઌૻઌૻઌૻઌઌઌઌઌઌઌઌઌઌઌઌ	-
	Joint Seepage	222 222 222 222 222 222 222 222 222 22	2.61 2/min/m
Inflow	Joint Number	***************************************	Total

•

4-4-25 Inflow & Outflow of Seepage Flow (R-1-01-C2)

Svectour Right Bank - 1	Crack: Width 2 cm		
Percentage for Total Seepage (2) at Joint Accumulated	44448883 444488893 644689489	700.0 X	
Percentage for At Joint	42043424 ०००४४२५ ०००४५२४४	- - -	
Joine Scepage	2-7 22 22 22 22 22 22 22 22 22 22 22 22 22	148.00 2/min/m	
Joine Number	400 400 400 400 400 400 400 400 400 400	Total	
otal Seepage (%) Accumulated	0044444842488888 484844444444888888 484844444444	7000 X	
Percentage for Total Seepage at Joint Accumulated	00000000000000000000000000000000000000	· · · · ·	
Joint Seepake P	0.0.0.0.4.9.9.1.4.7.4.0.8.4.4.0 8.8.9.9.4.4.4.4.4.6.8.4.4.0 8.8.8.8.8.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	147.89 2./mta/a	
Joshe Mumber	99992332333333333	 	

4-4-26 Inflow 6 Outflow of Seepage Flow (R-1-A1-C2)

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Sections Right Bank - 1	Nameryoir W.L.L. KL. DV.00 Downerwam W.L. KL. 40.00 From Cortain: KL. 40.00 From Cortific Coef. K. Crack: Vidth 2 cm	
Accumulated	0044788 9794636	н о.о.
reconcere for local seepere	00637540 2014480	
(L/min/m)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	a/uja / 1 2 . 16
Joint Number	2333922	Ho Ctal
Total Seepage (Z) Accumulated	044494848888888888888888888888888888888	100.0 2
Percentage for Total Seepa at Joint Accumula	000004847084467440 4767467464444404	
	0.28 0.628 0.628 0.628 0.628 0.627 0.625 0.625 0.625 0.625 0.625 0.625 0.625 0.625 0.625 0.625 0.625 0.625 0.625 0.6260 0.626 0.626 0.626 0.62600 0.62600 0.6260000000000	91.31 2/min/#
Joine Number	99998888888888888888888888888888888888	Total

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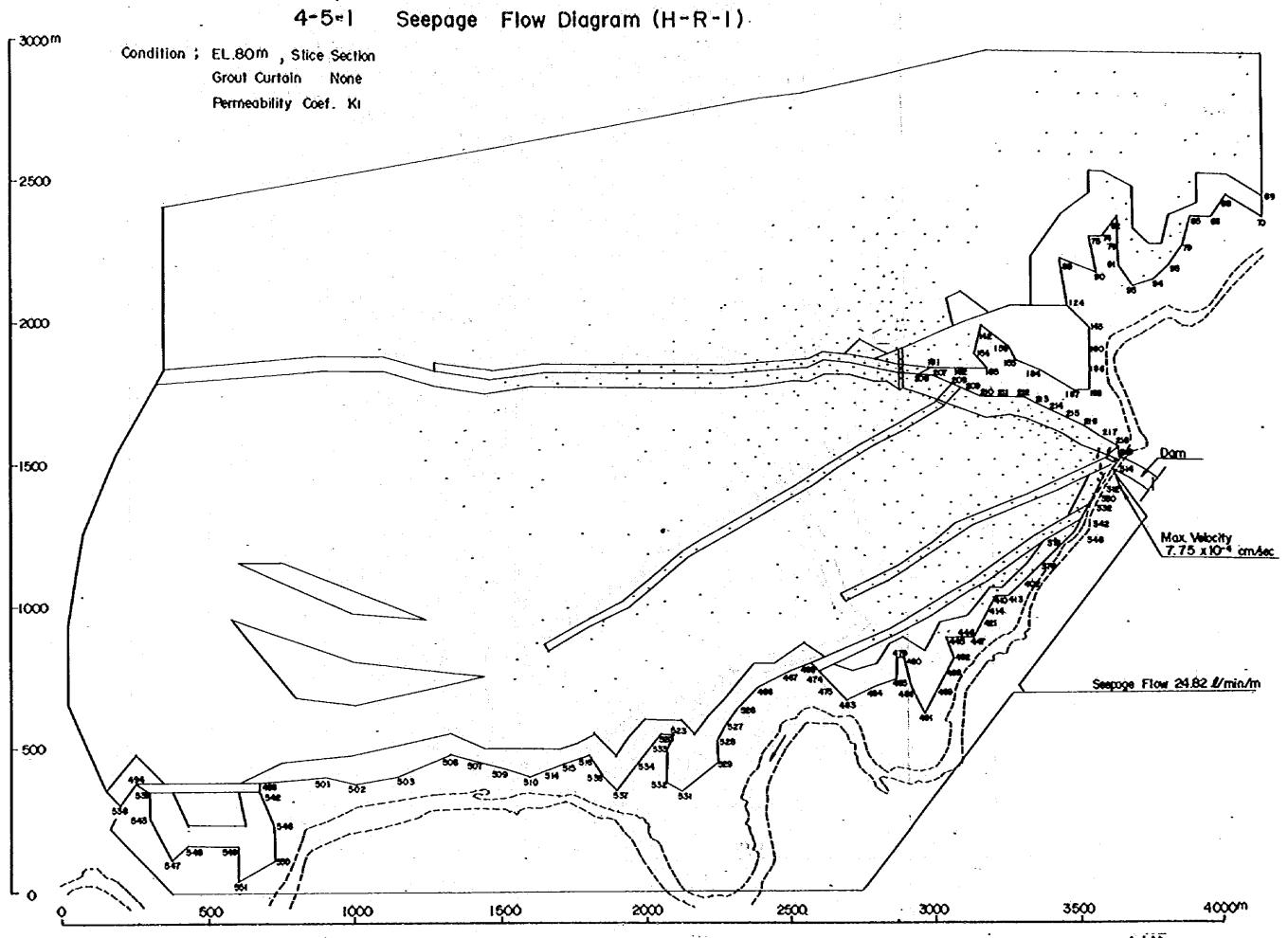
ondition	Section : Might Reservoir W.L.C	Downstream W.L. : KL. 40.00m Groue Curtain : KL120m Parmeability Cost.: X1 Crack: Width 2 cm		
	Percentage for lotal begage (4) at Joint Accumulated	44788 4440 46440	0.001	
	Percentage for at Joint	4.14.44 8.47.44 9.4.4		
	Joine Seepars (L/min/m)	0.604 19.352 11.333 8.029 1.44 1.44	40.83 &/min/m	
Outflow	Joint Number	44461	rotal	
	Percentage for Total Smepage (1) at Joint Accumulated	ouanyea588888 r4ondeed44re441e6	100.0 1	
	Percentage for at Joint	04444482294403440 249222034294404494	· · · · ·	
	Joánt Seepage (L/aán/a)	0.274 0.585 0.585 0.585 0.685 0.685 0.685 0.675 0.675 0.675 0.675 0.675 0.675	41-07 &/mta/	
Inflow	Josht Number	*************	Total	

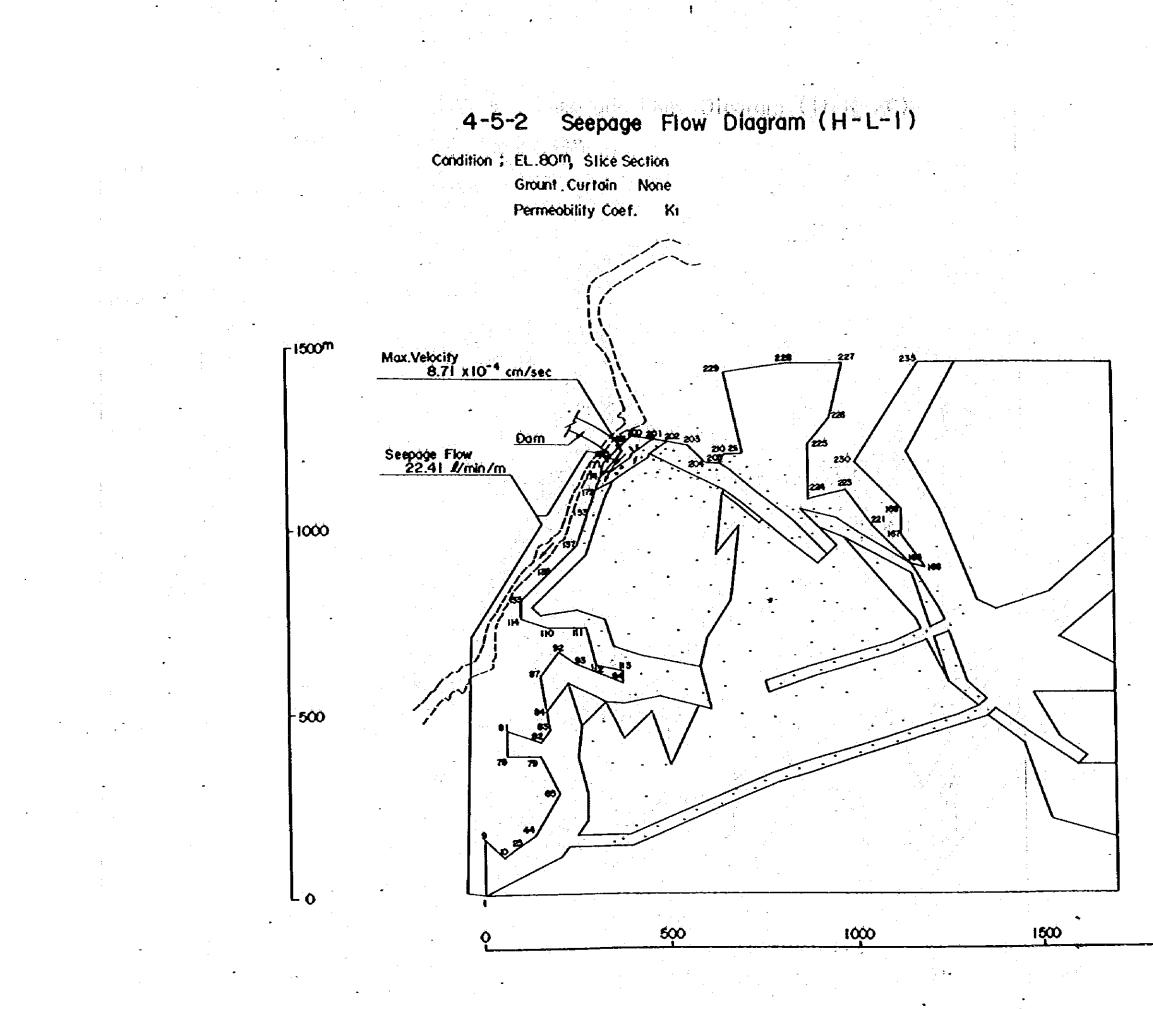
4-4-27 Inflow & Outflow of Seepage Flow (R-1-B1-C2)

4-4-28 Inflow & Outflow of Seepage Flow (R-1-Al-Cl)

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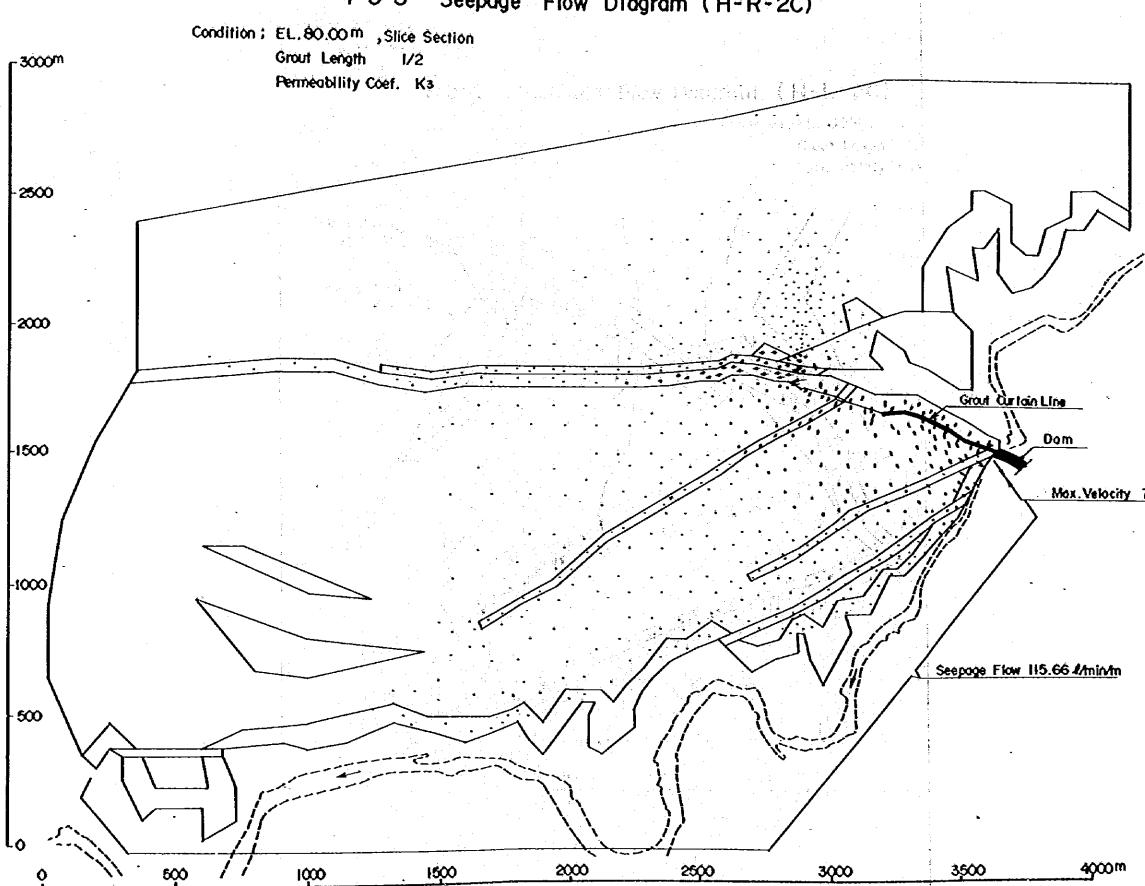
Condition	and a	Baervoir Wile II. 40.00 Downstream Wile II. 40.00 Forur Curtain - 40.00 Perseki Width 2 mm. Kl.	
	otal Seepage (X) Accumulated	27.2 81.5 94.6 100.0	100.0 2
	Percantage for Total Seepage at Joint Accumulate	27.27 2.25 2.4.4.4. 2.4.4.4.	
	Joint Seepage	2.11.2 2.4.7 2.4.7 0.4.0 0.4.0 0.4.0	7.78 2/min/m
Outflow	Joine Number	39985	Total
:	Total Seepage (2) Accurulated	24446446646688888 244466446888888 2444664468888888	20002
	Percentage for Total Set	48999855484000040 1900001944444	
· ·	Joine Seepage	0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	a/uta/% % .8
Inflow	Jotac Mumber		Total
			A-4-37





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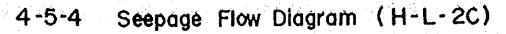
2000^m - A-4-39



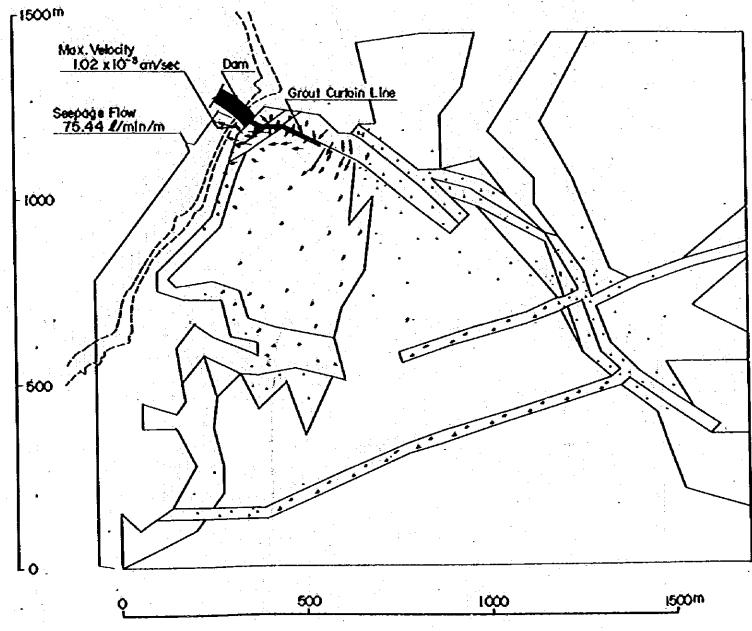
4-5-3 Seepage Flow Diagram (H-R-2C)

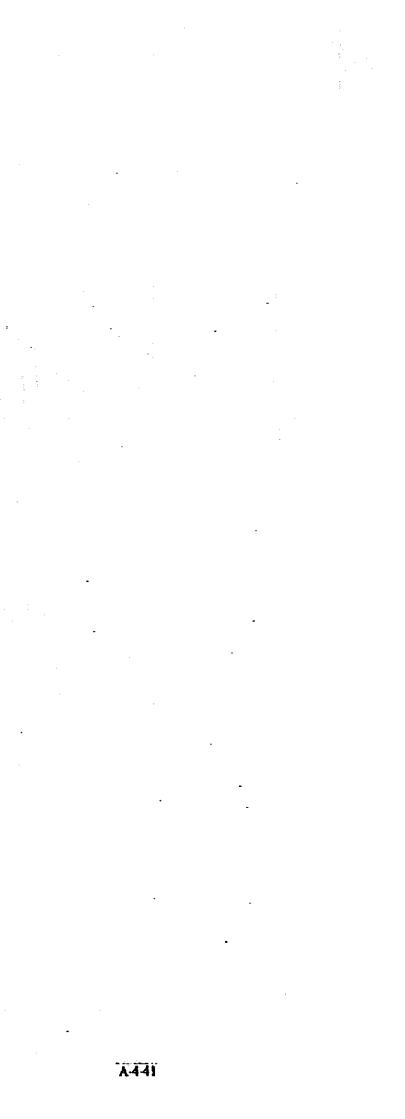
Mox. Velocity 7.83 x 10-4 cm/sec

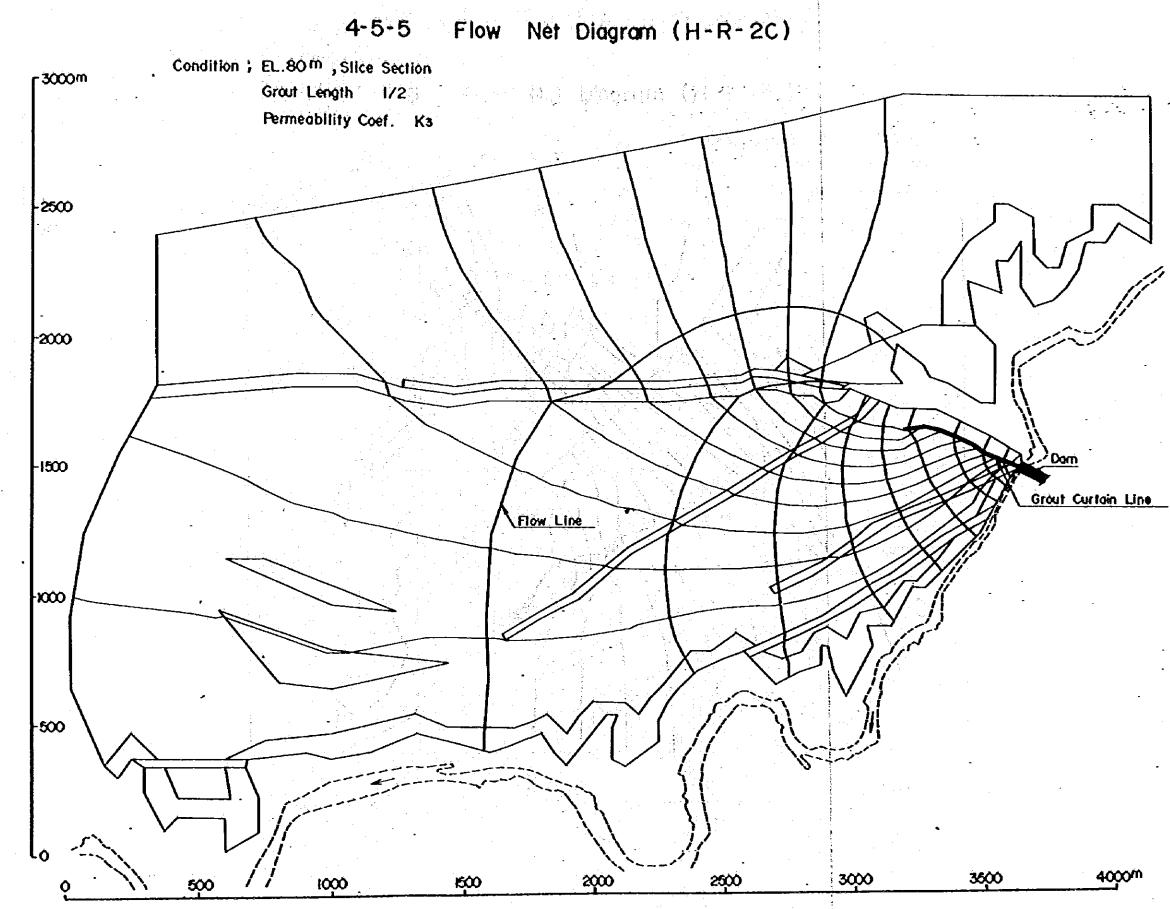
A440



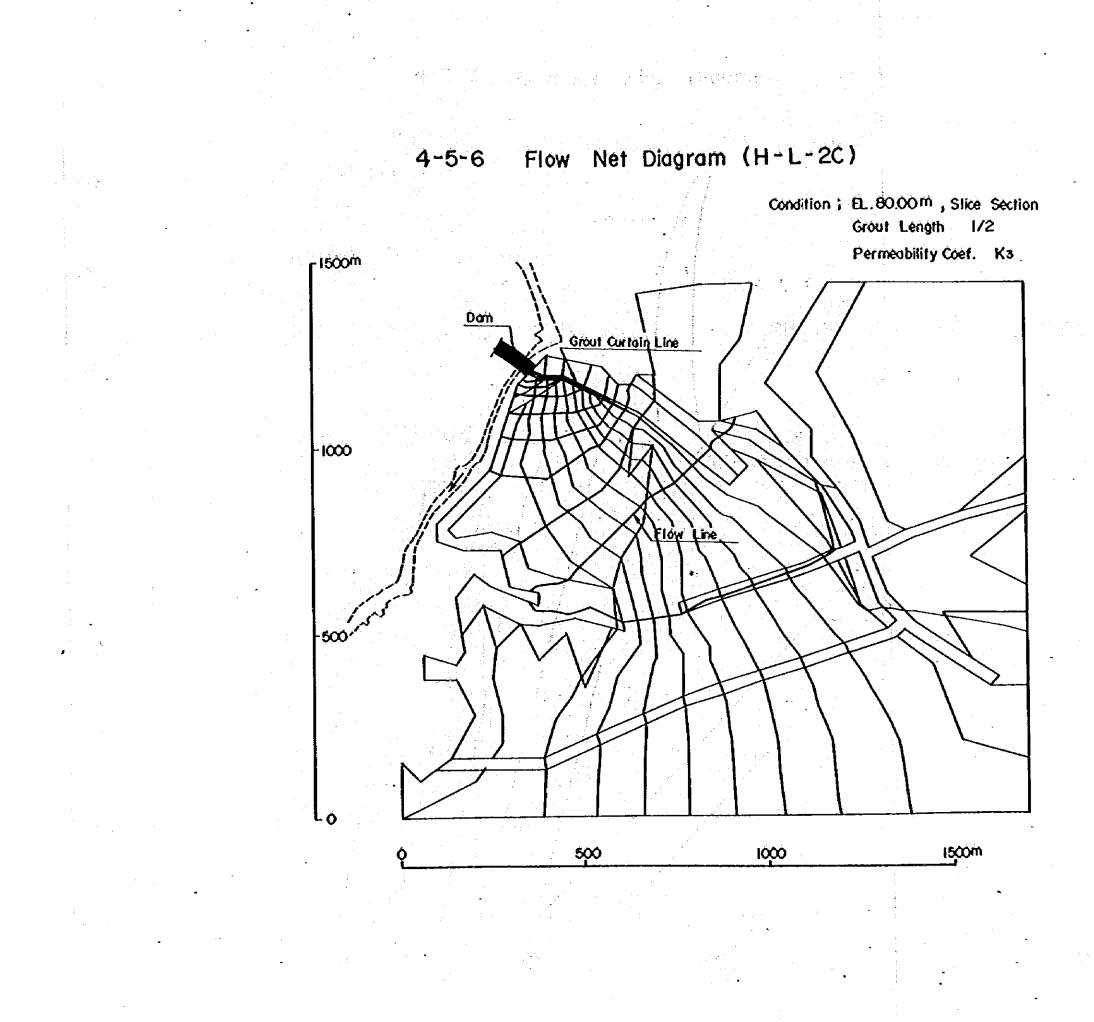
Condition; EL. 80^m, Slice Section Grout Length 1/2 Permeability Coef. Ks

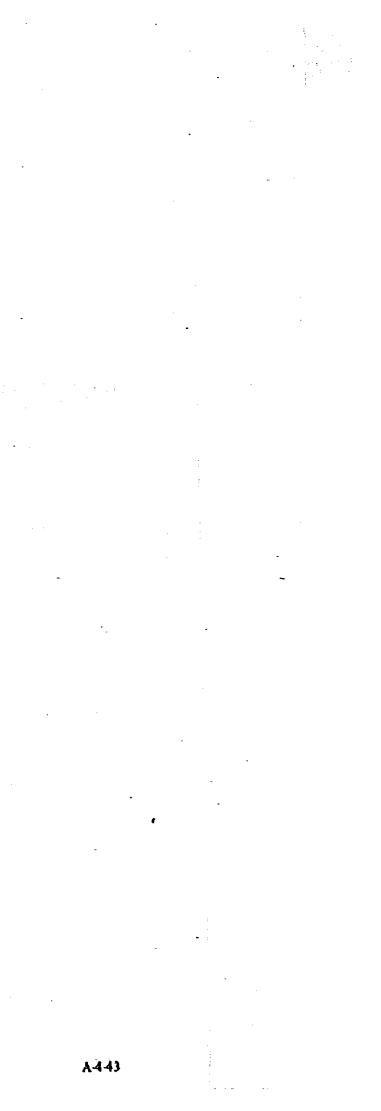


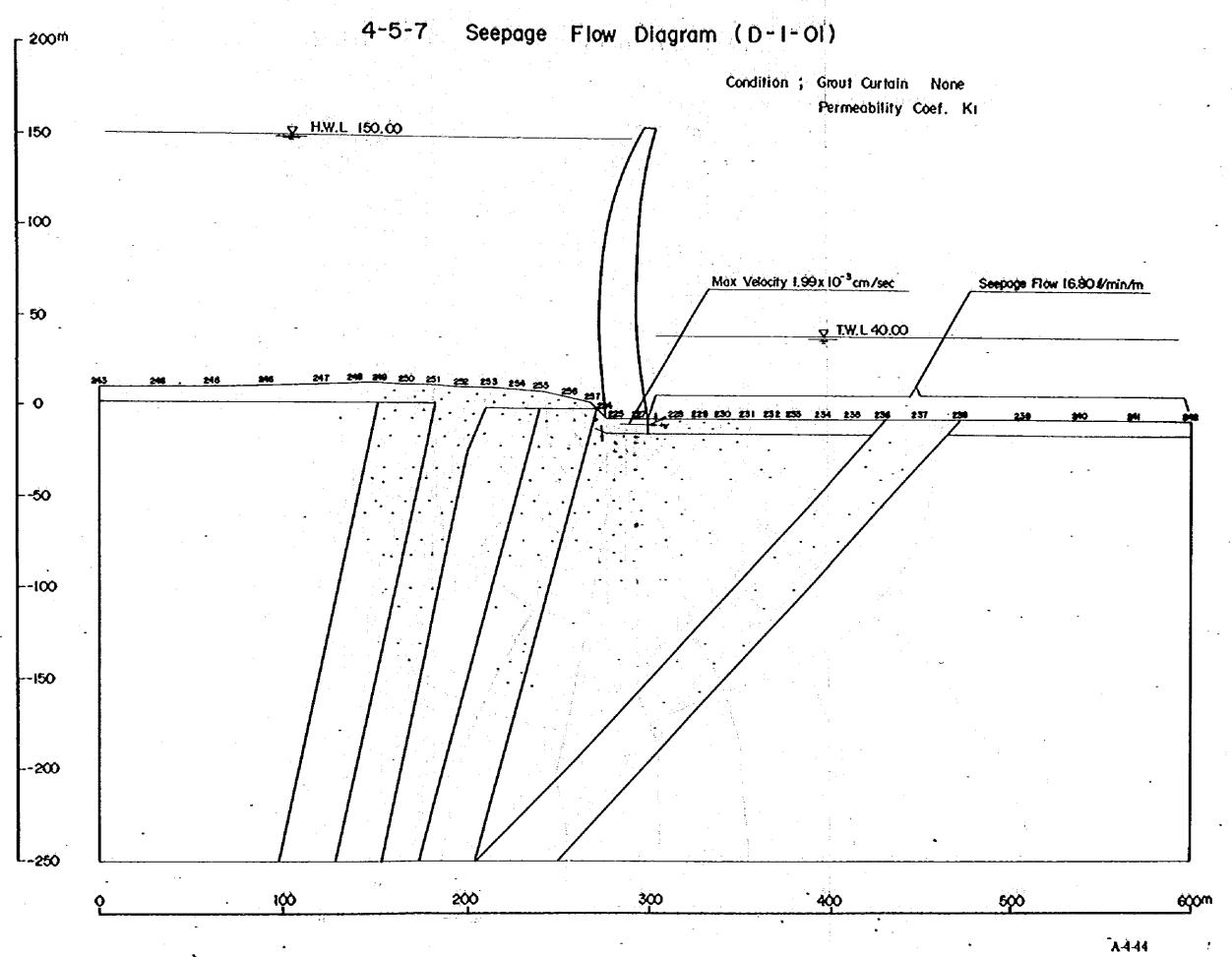


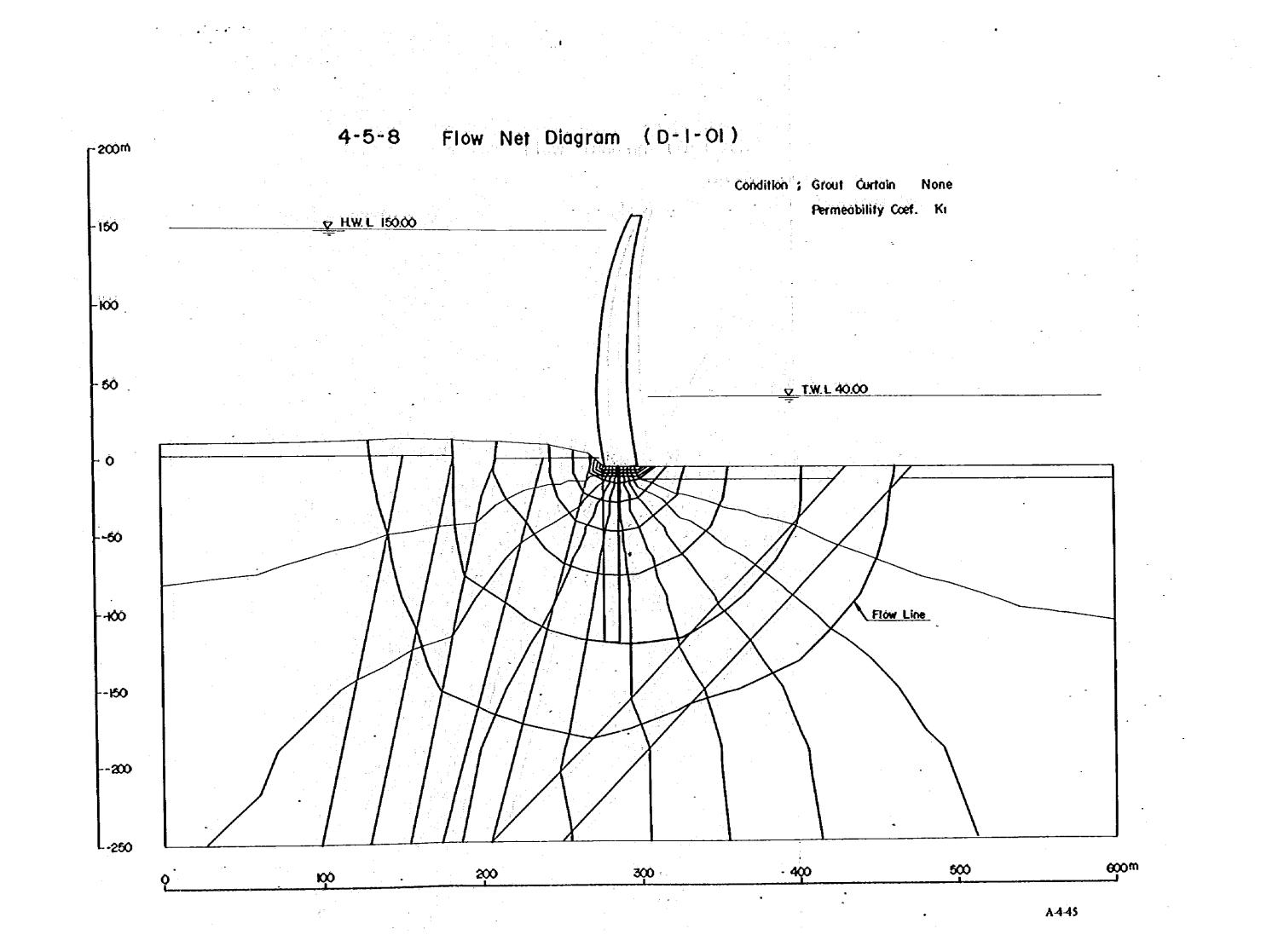


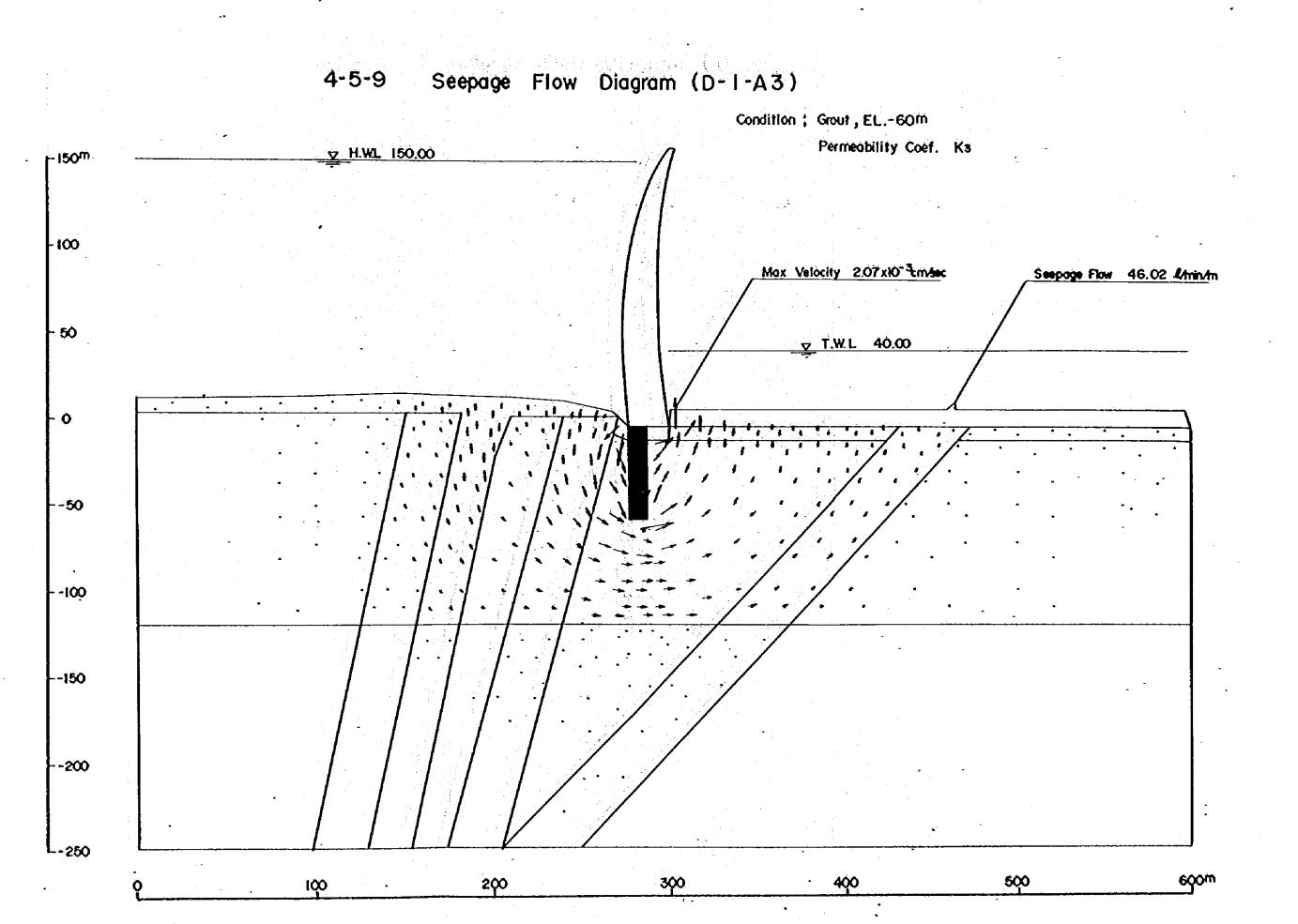
A442



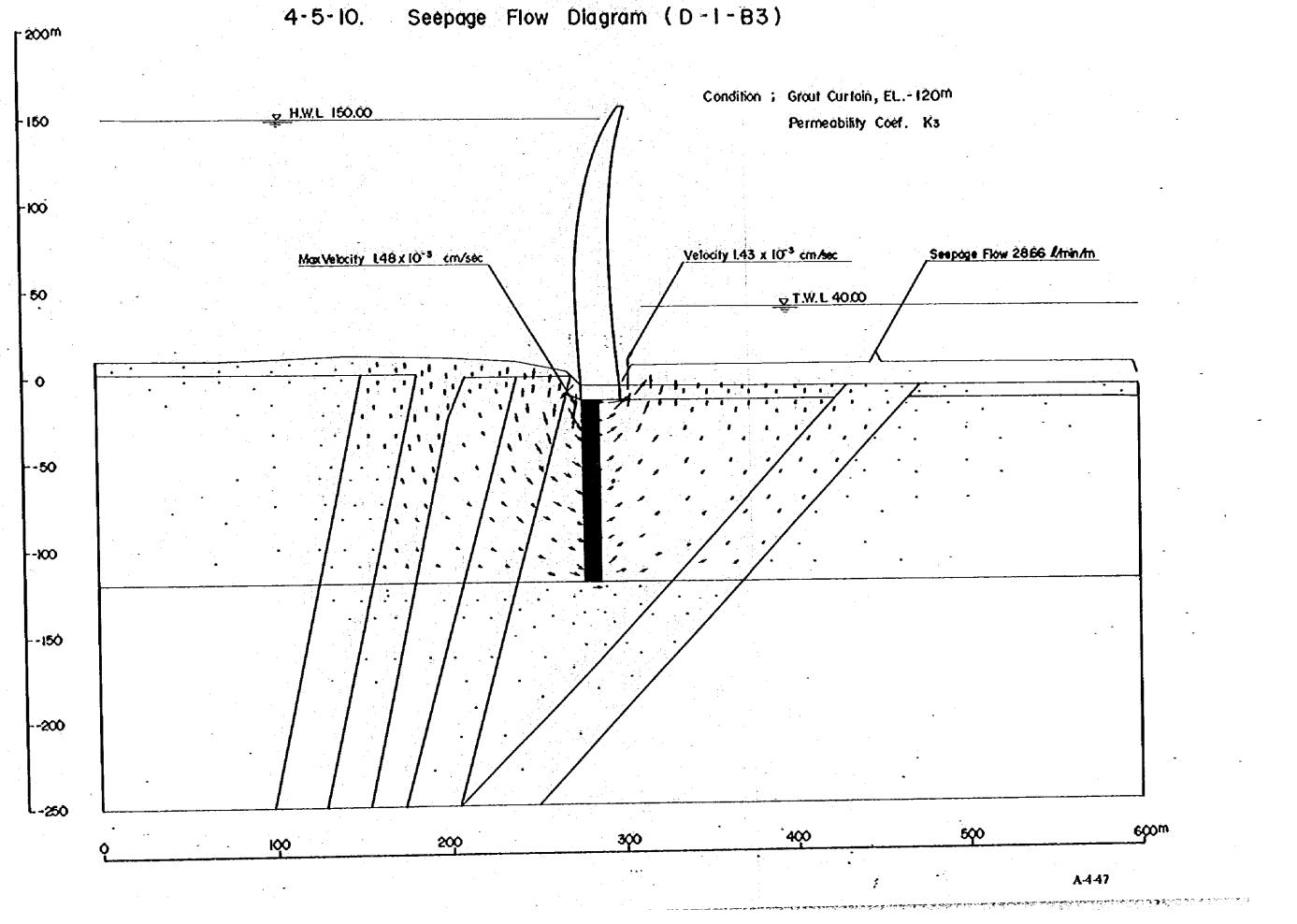


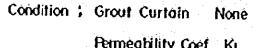


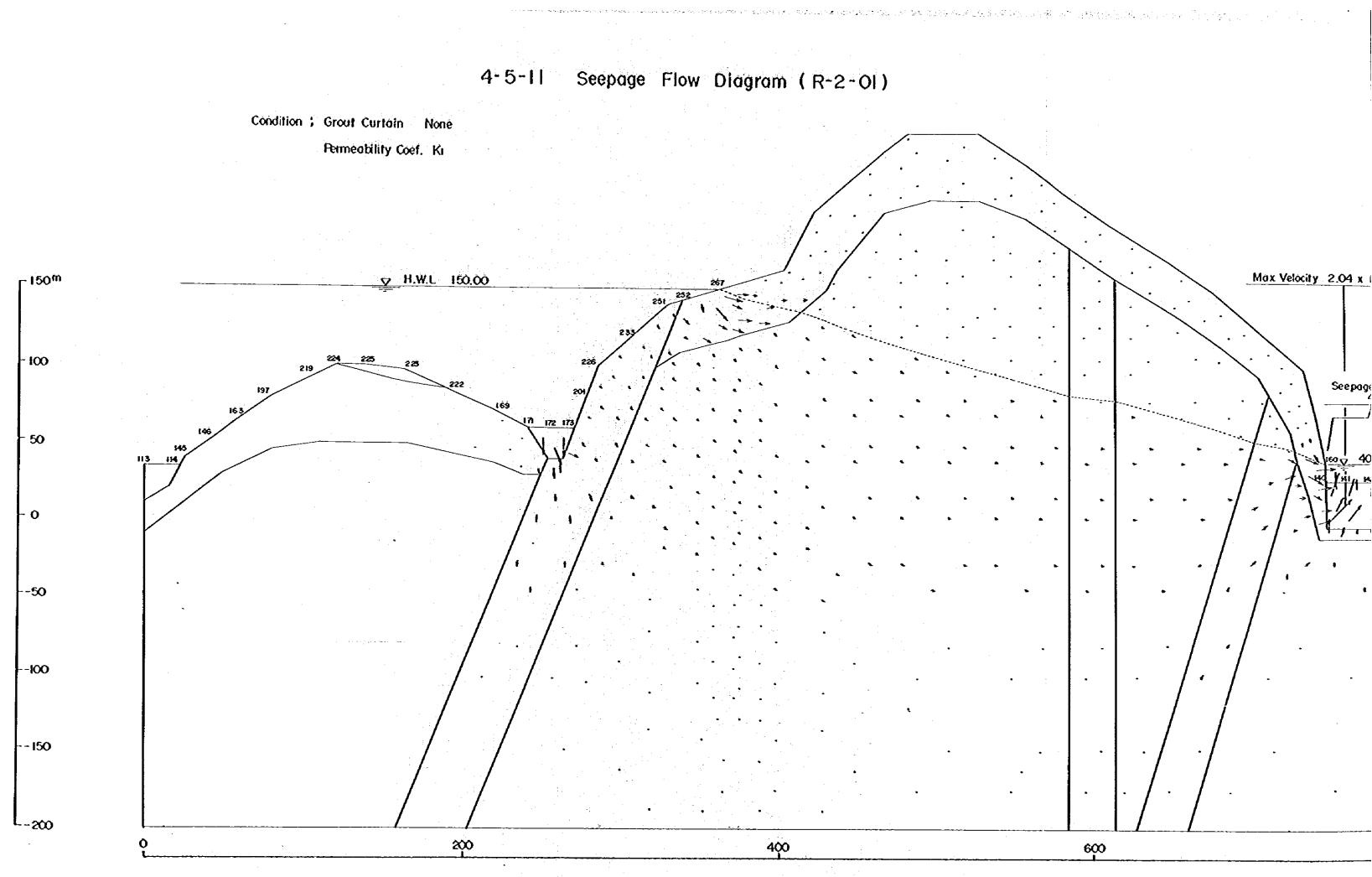


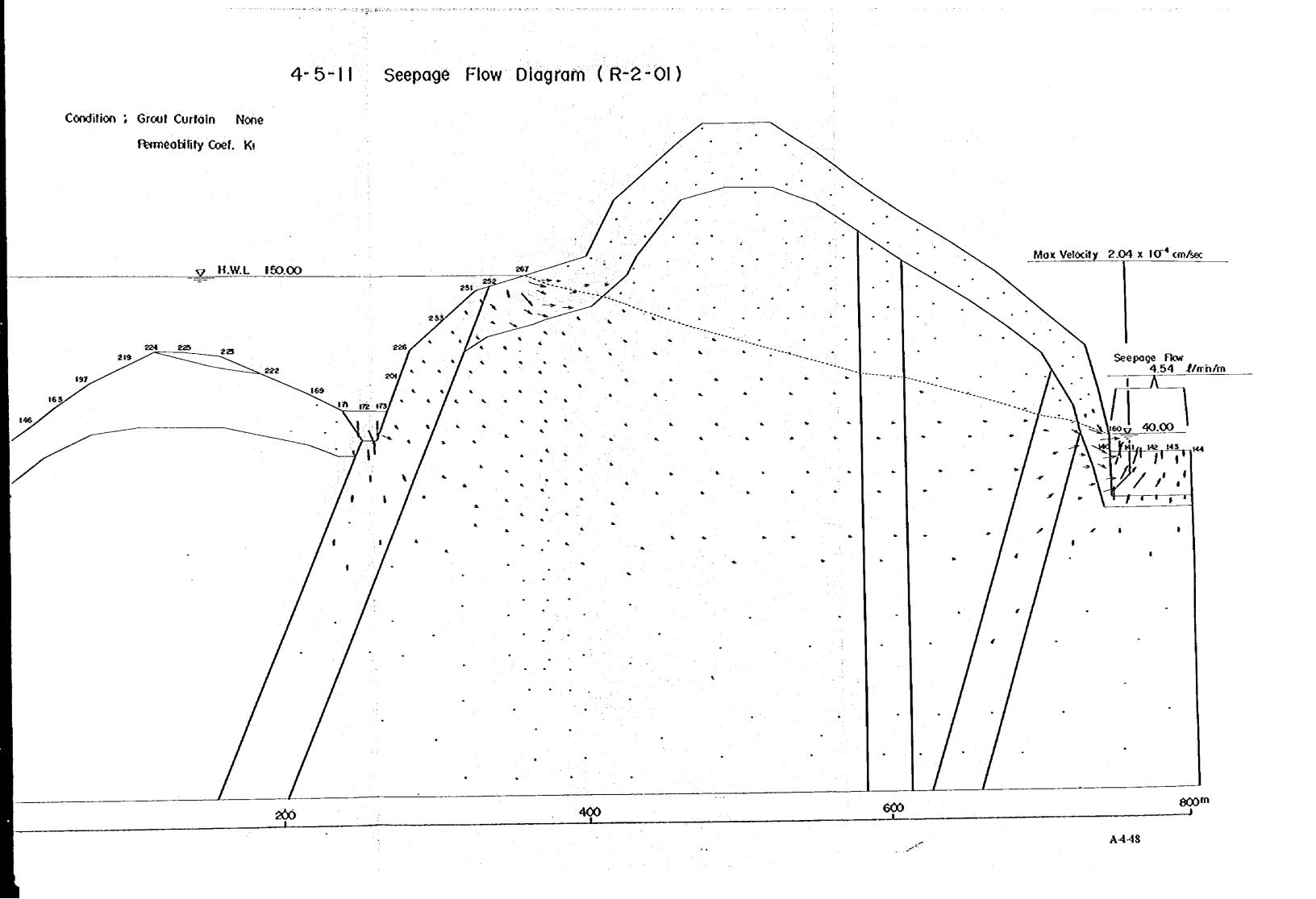


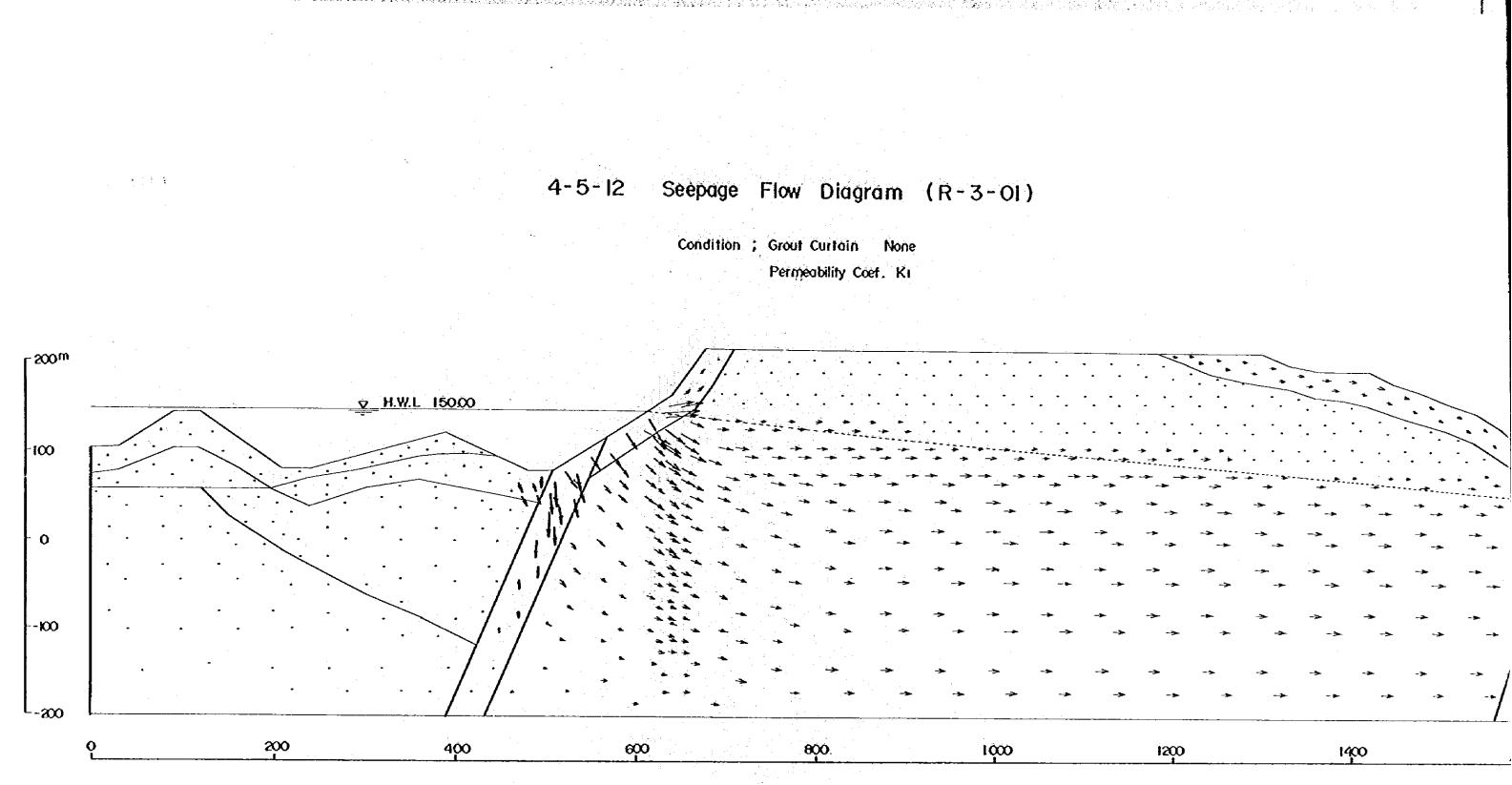






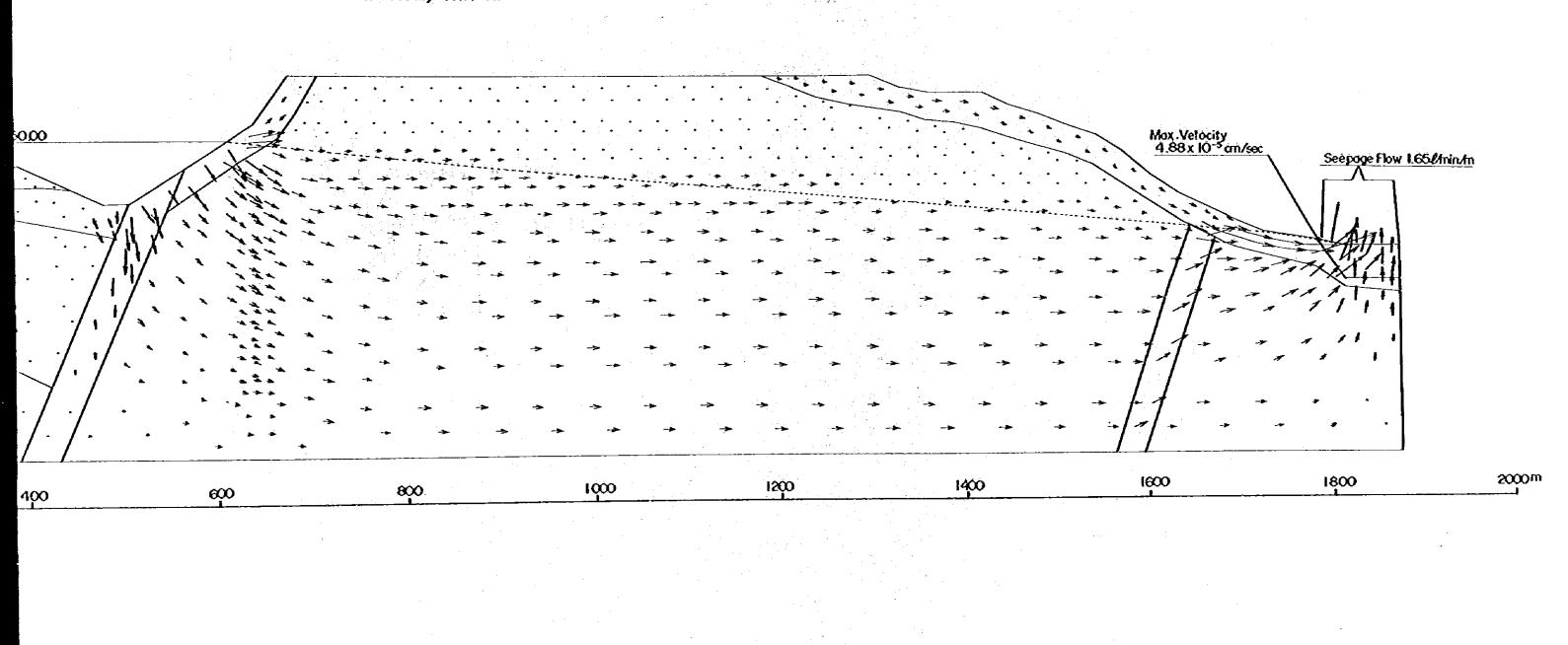




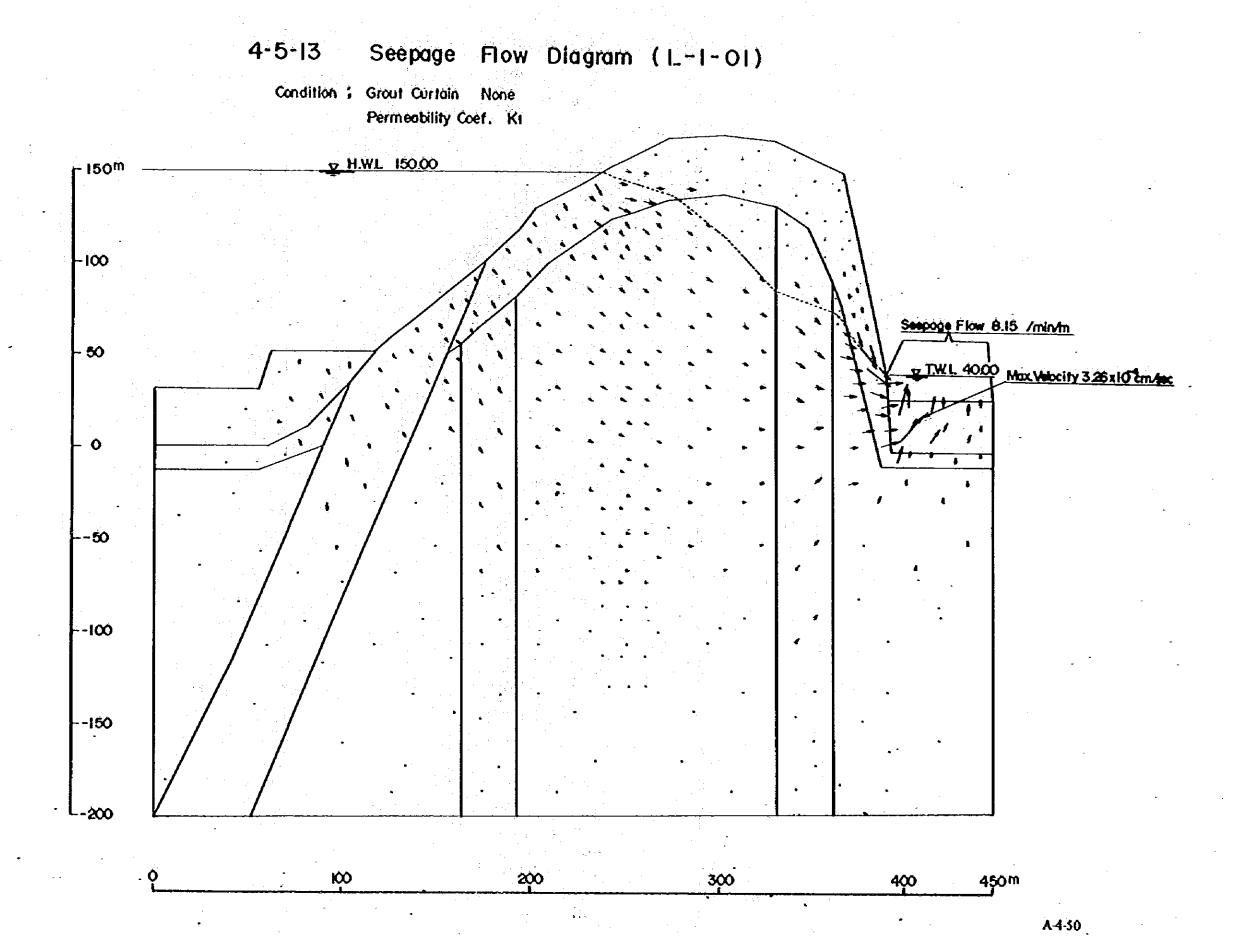


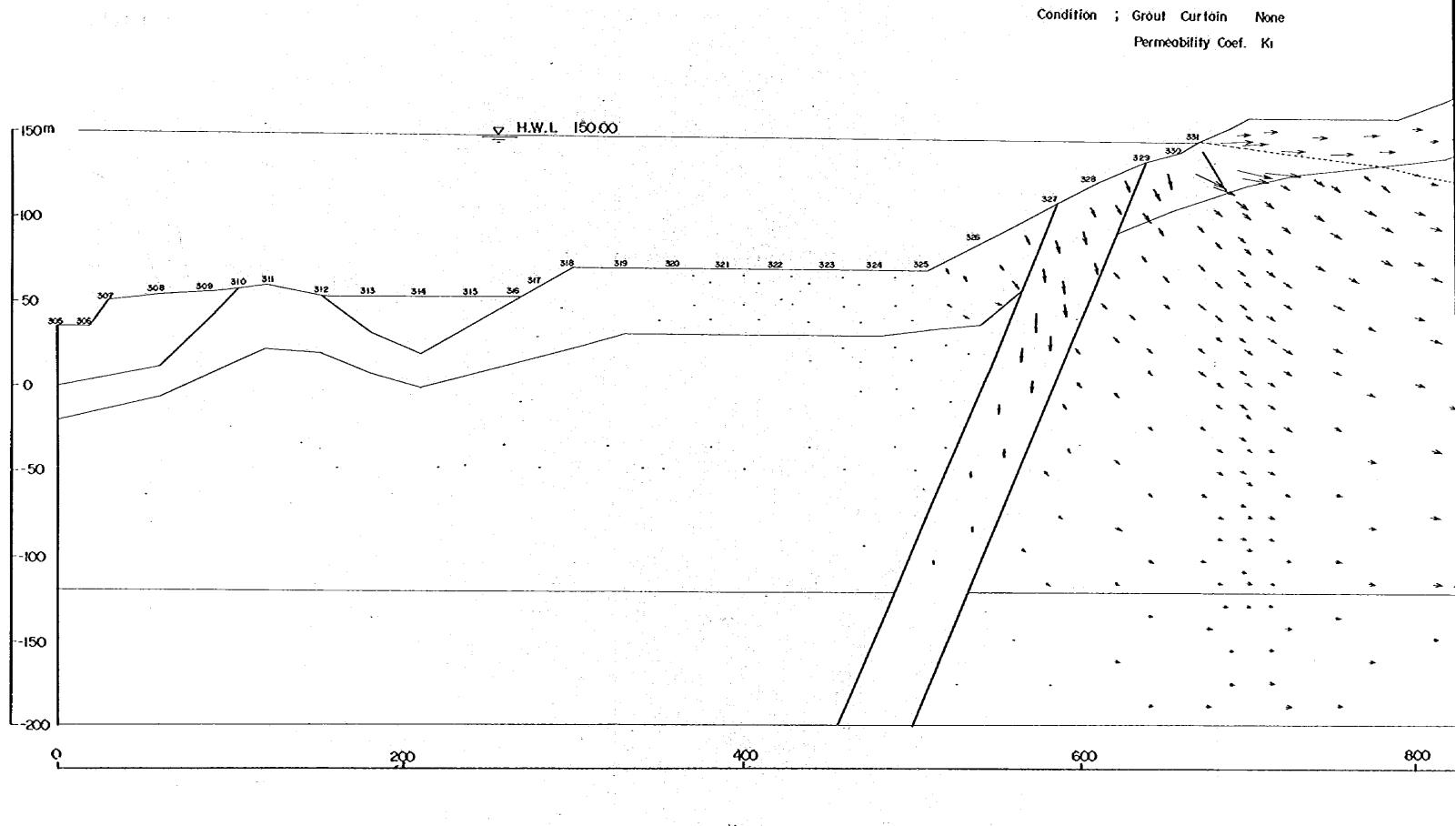
4-5-12 Seepage Flow Diagram (R-3-01)

Condition ; Grout Curtain None Permeability Coef. Ki



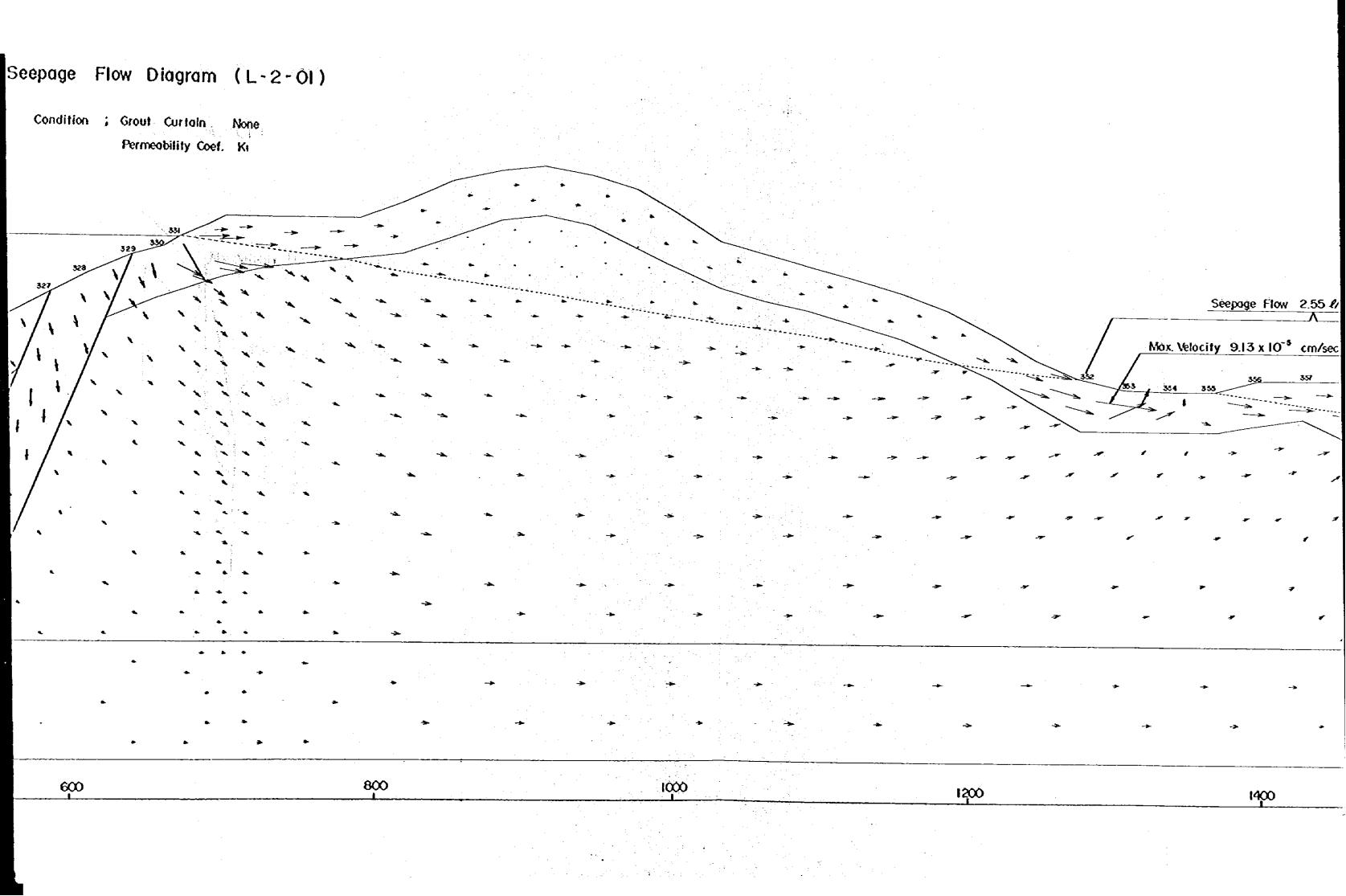


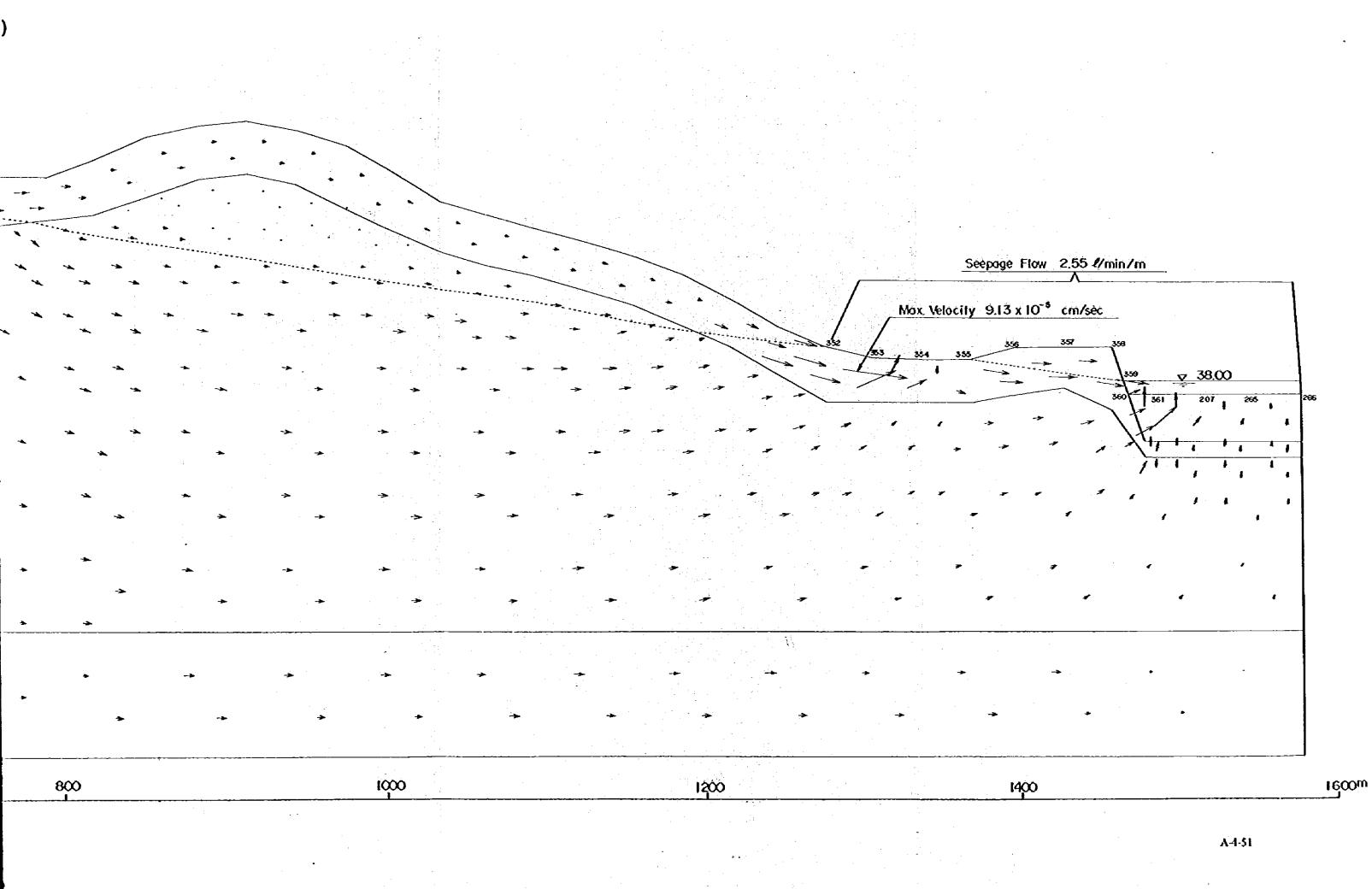


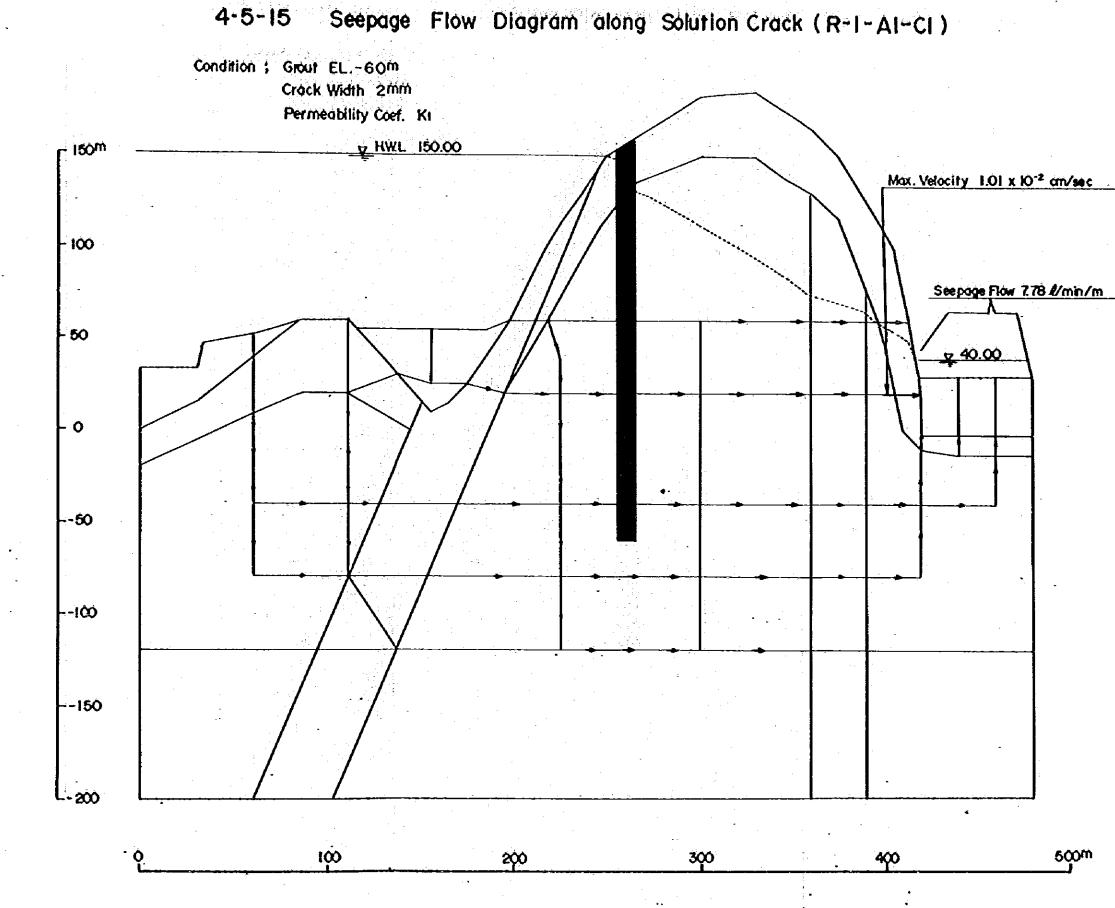


4-5-14

Seepage Flow Diagram (L-2-01)





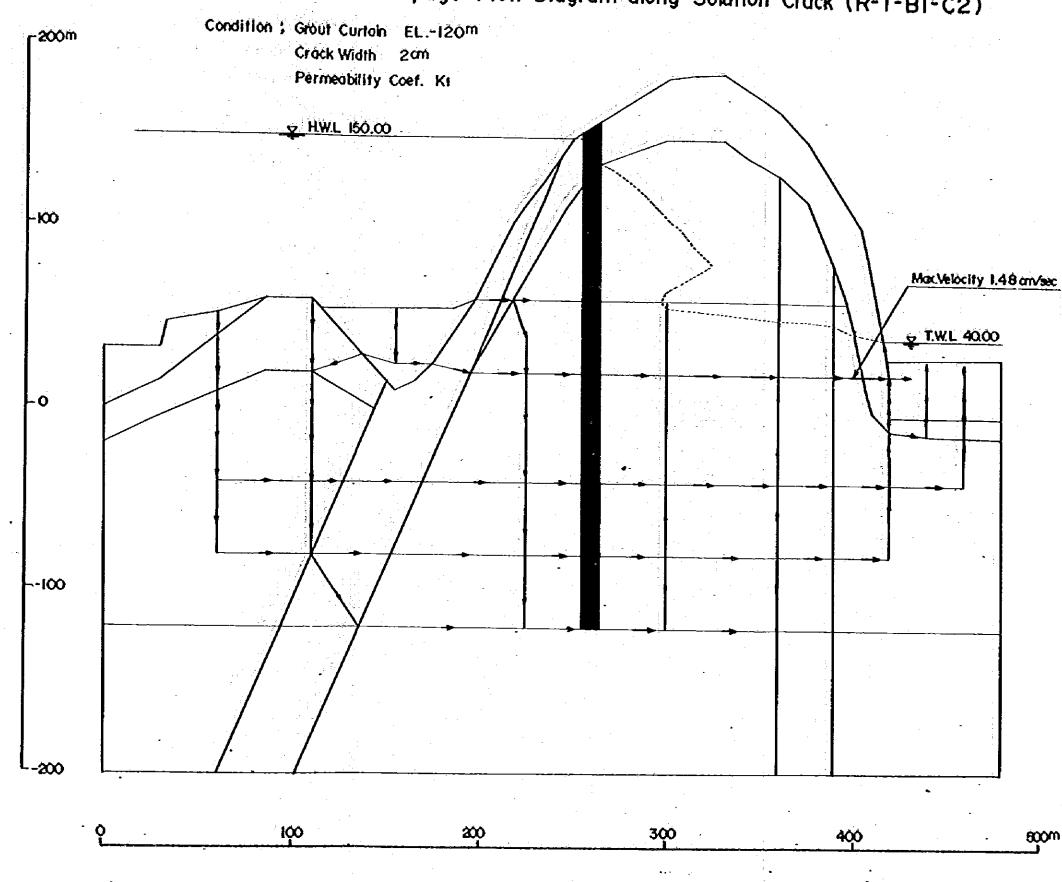


4-5-15

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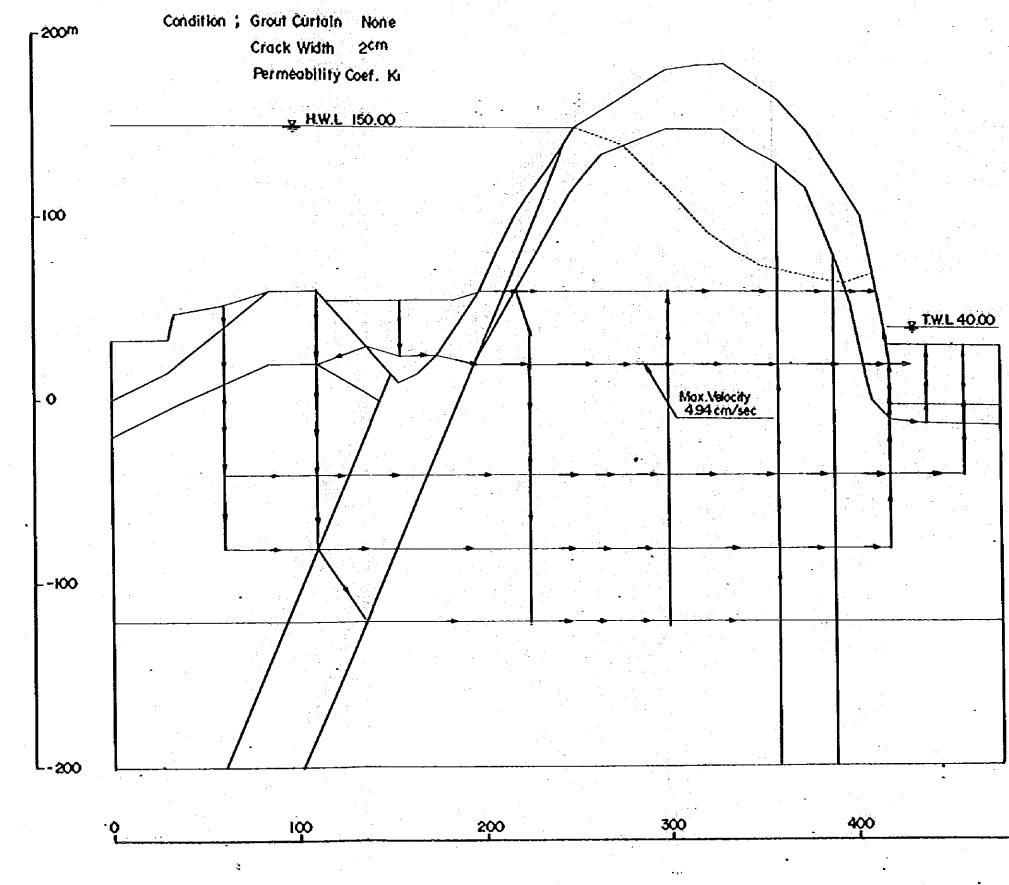
.

500^m



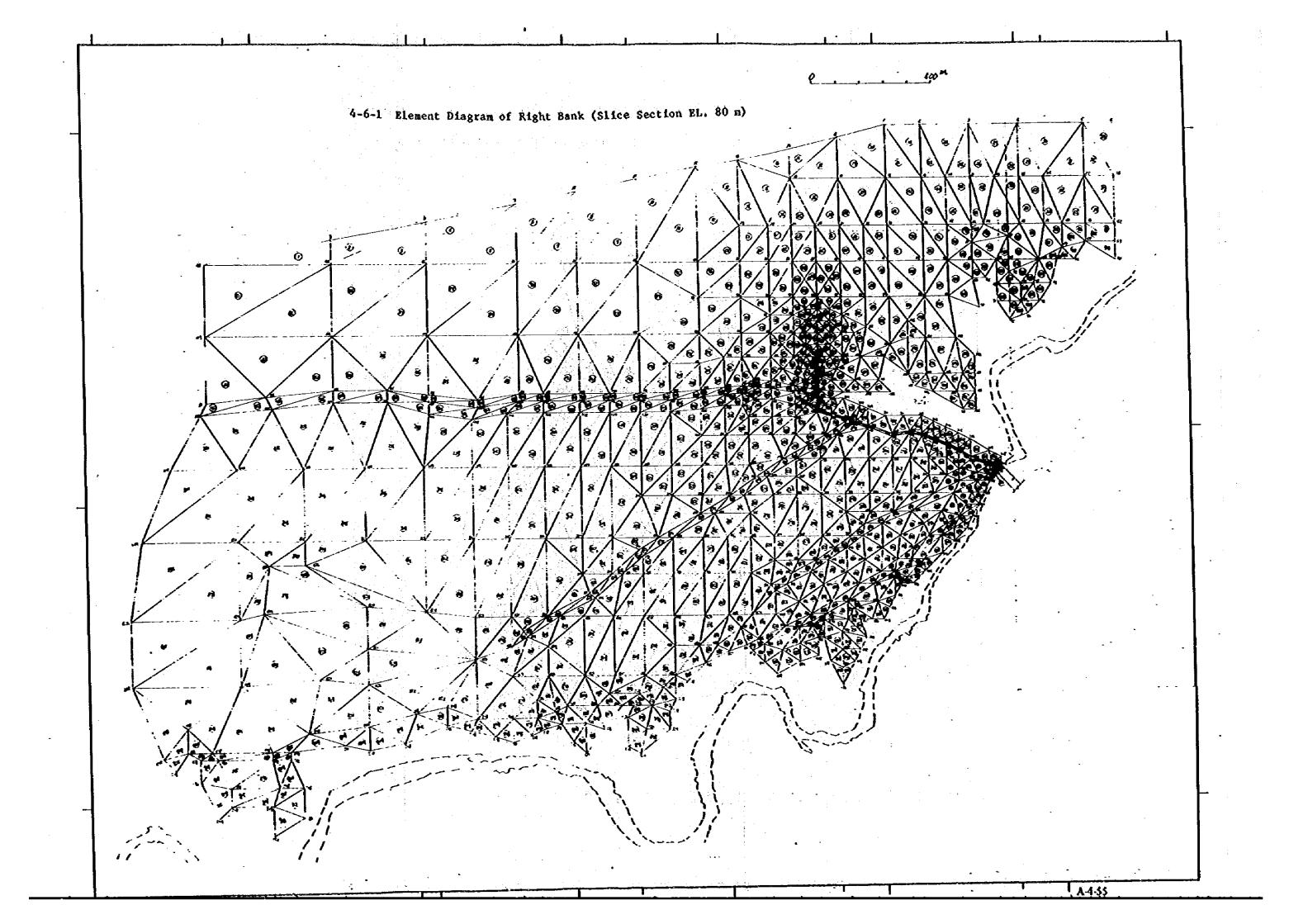
4-5-16 Seepage Flow Diagram along Solution Crack (R-1-B1-C2)

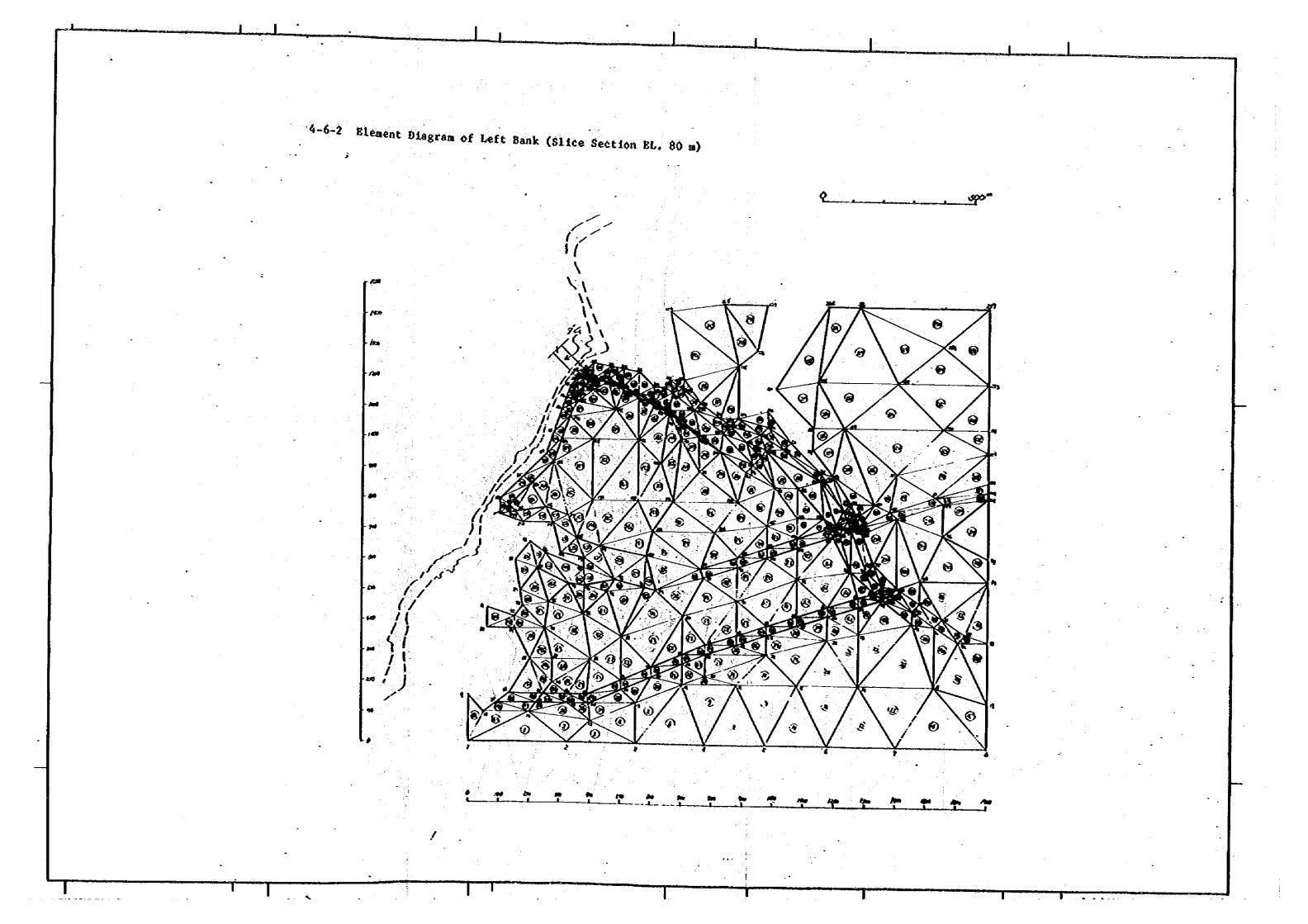
600m

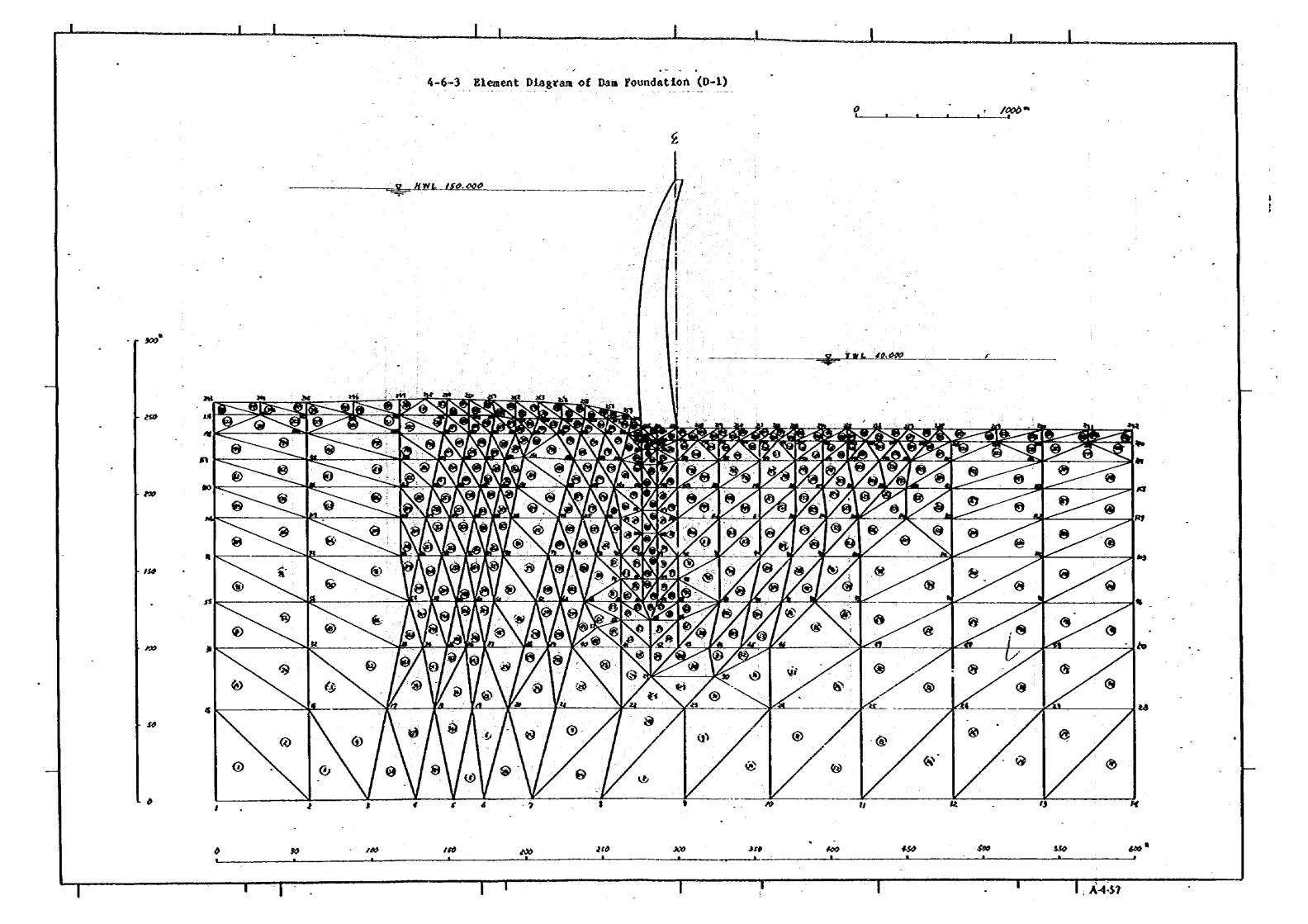


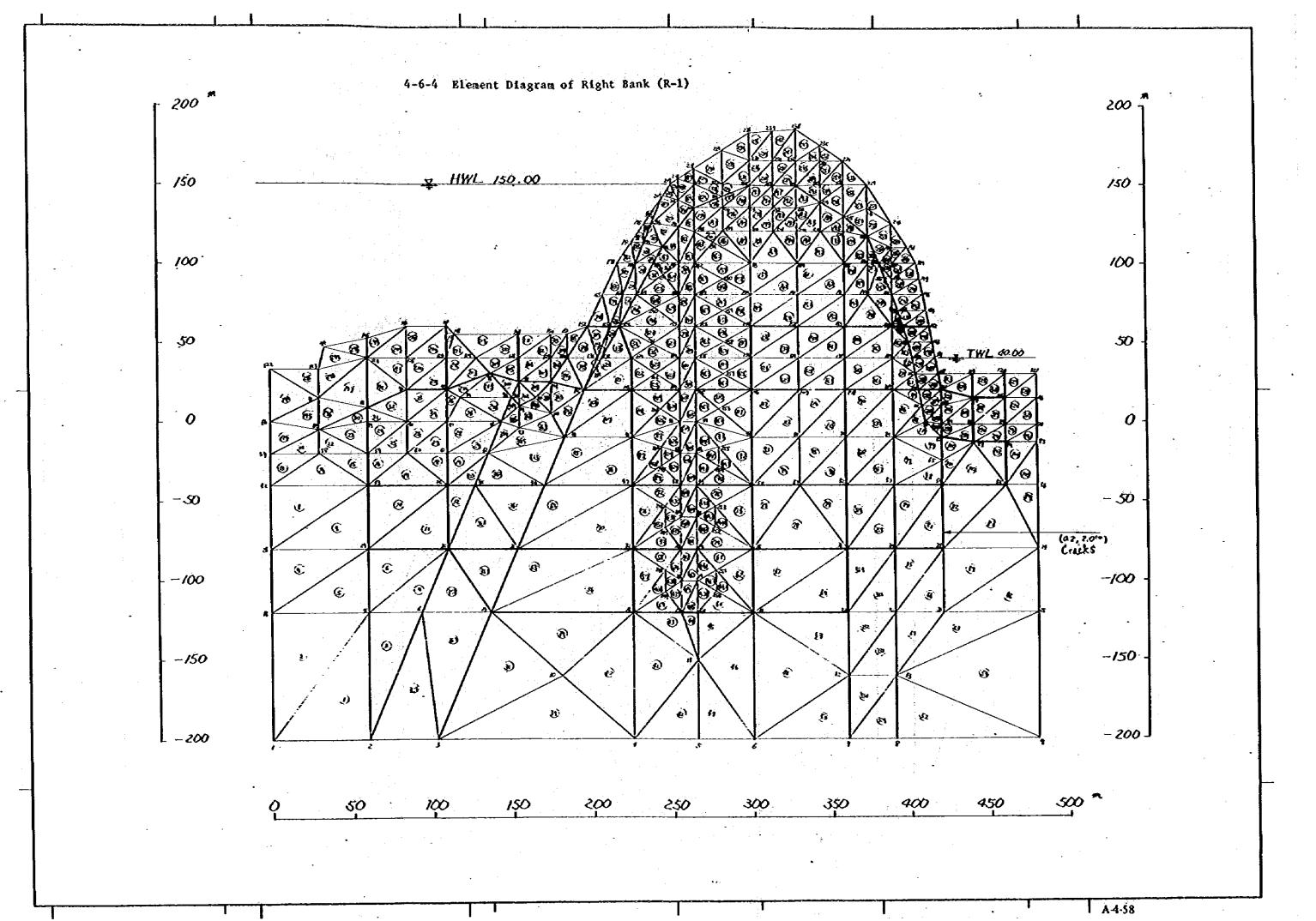
4-5-17 Seepage Flow Diagram along Solution Crack (R-I-01-C2)

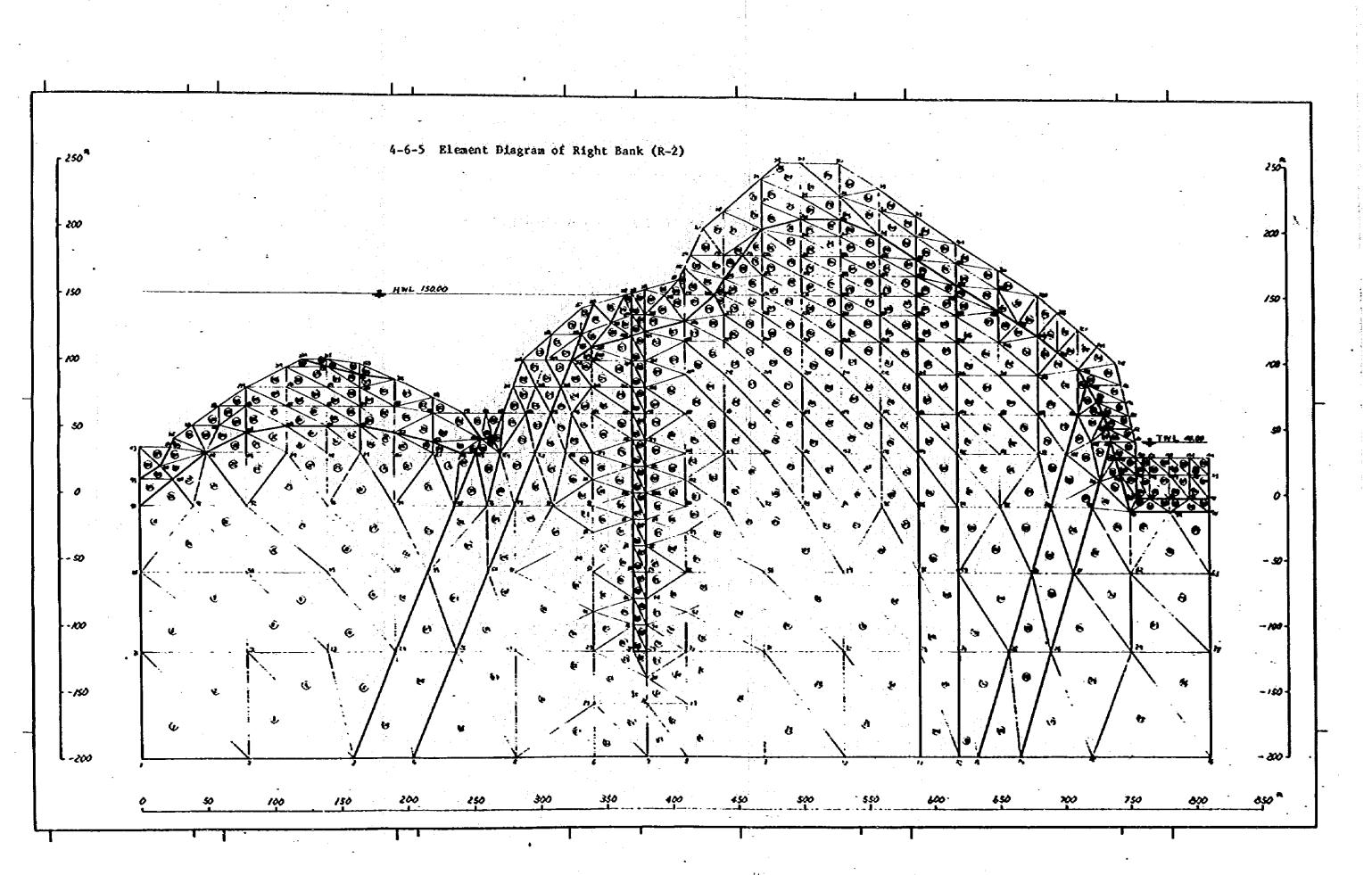
500m

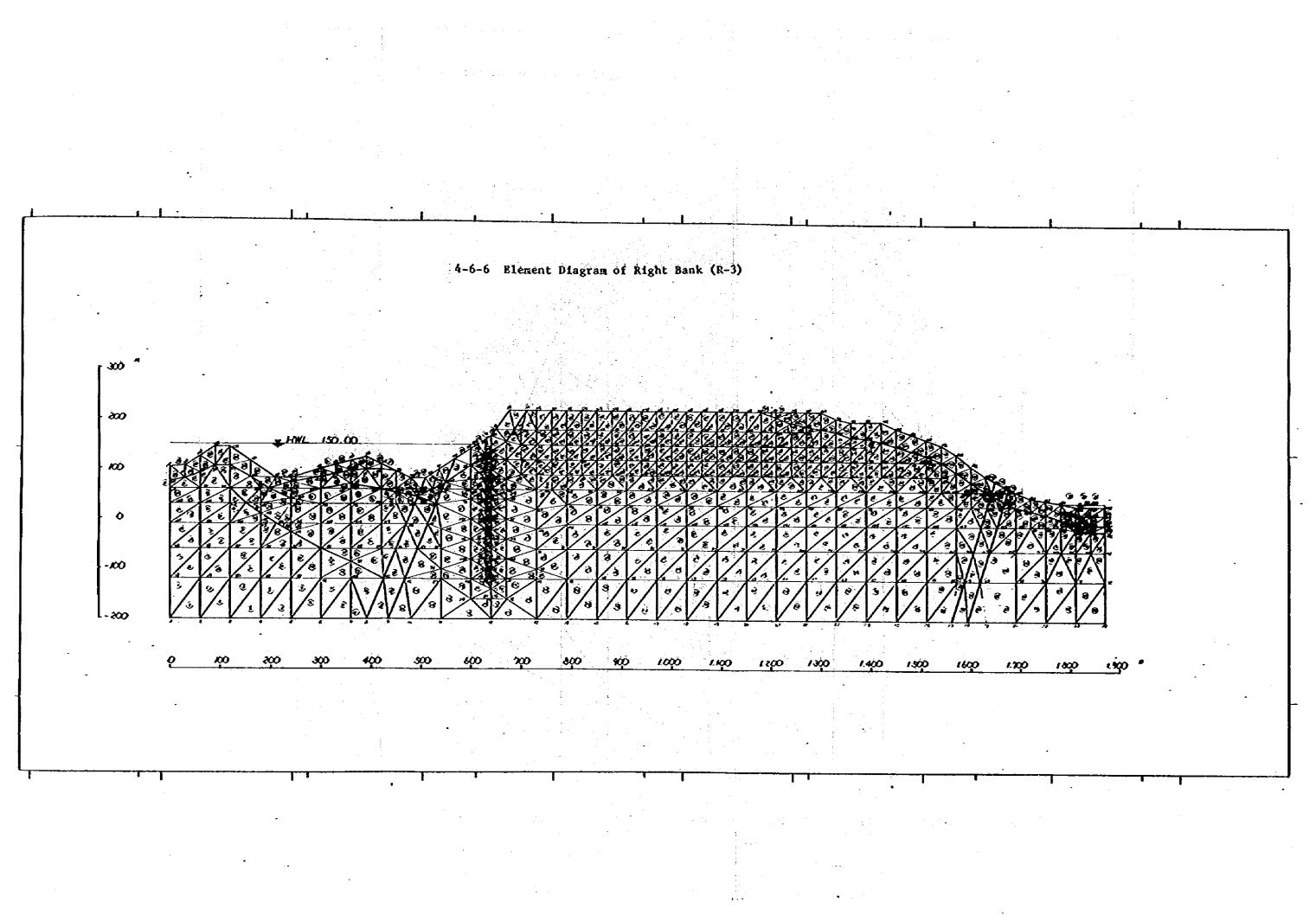




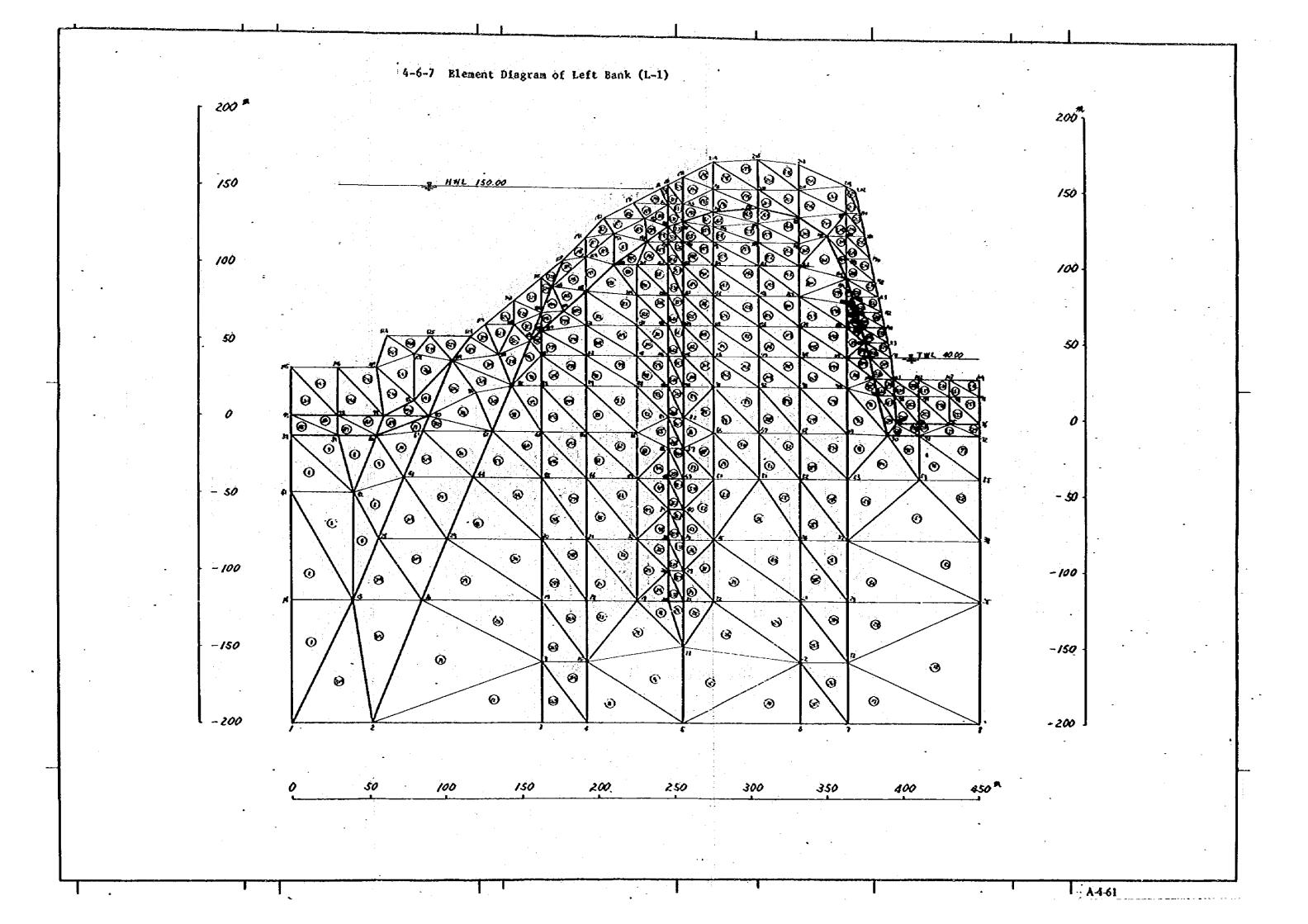


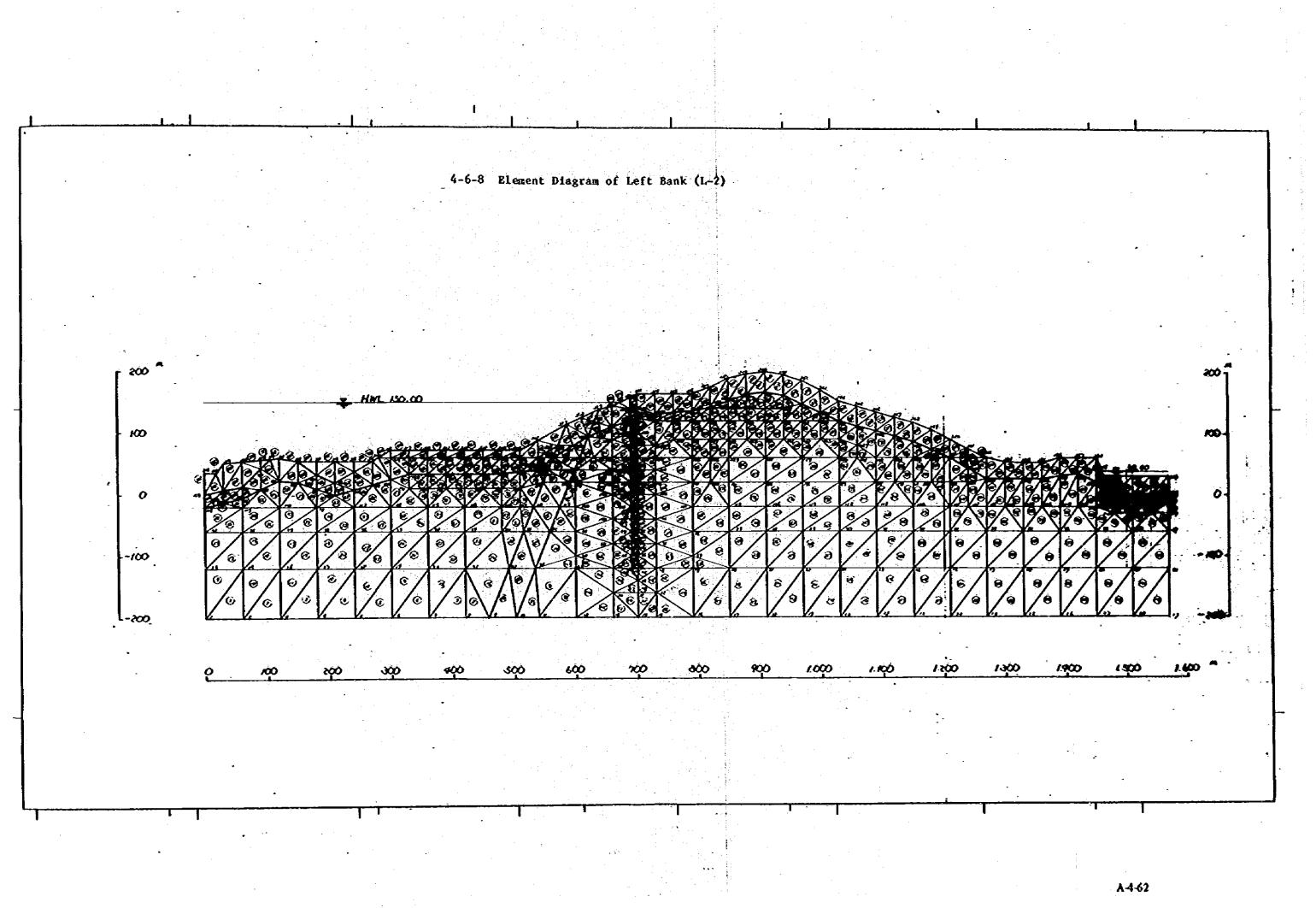






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ECONOMIC EVALUATION DATA

A-5

- 5-1 Estimation of Pinancial Internal Rate of Return (PIRR)
 5-2 Calculation Sheet of Economic Cost Polw
 - 5-3 Calculation Sheet of Economic Benefit Flow

5-1 Estimation of Financial Internal Rate of Return (FIRR)

3.3 3.4 5.4 3.4 5.5 1 5.6 1 7.0 1 8.3 1 9.6 1 9.6 1 9.6 1 9.6 1 9.6 1 9.6 1 9.6 1 10.0 1 11.0 1 12.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 15.5 1 24.5 <th>36415.58 36415.58 </th> <th></th> <th>1 68h 1 1711.176 20374.78 29398.85 23379.02 2359.02 2359.02 2359.02 2359.02 2359.02 2359.02 2359.02 2359.02 2359.02 2359.02 2359.02 2359.02 2359.02 2323.02 30 23222.39 23102.54 23252.38 22525.36 23102.54 22525.36 23102.54 22525.36 23102.54 22525.36 20509.254 22525.36 20509.35 14560.33 120529.46 20520.66 20520.56 1960.35 136507.31 1453.719 1473.79 18507.31 14653.68 18279.39 15655.68 18279.37 15572.37.03 15572.37 13519.00 14973.03 14733.86</th> <th>I 4528,11 I 42402,17 I 39235,34 I 34345,16 I 34345,16 I 34345,16 I 29210,70 I 2681,02 I 24765,59 I 22490,20 I 205:93 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,26 I 3105,41 I 5941,77 I 5941,77 I 5941,77 I 5941,77 I 5941,77 I 594,83 I 2312,71 I 593,39 I 235,39 I 295,39 I 295,40 I 2</th> <th>- 60899.27 1 6829.27 1 6829.27 1 6829.27 1 6573.28 1 6015.62 1 6015.62 1 6130.84 1 2486.36 1 648.21 26.85 1 -212.34 - 212.34 - 212.34 - 3191.28 - 3209.35 - 4578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.27 - 523.28 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 7742.59 - 8355.60 - 8340.79 - 8475.10 - 8475.10</th> <th>1.6774 1.5720 1.3778 1.3778 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 0.3908 0.39576 0.395</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	36415.58 36415.58		1 68h 1 1711.176 20374.78 29398.85 23379.02 2359.02 2359.02 2359.02 2359.02 2359.02 2359.02 2359.02 2359.02 2359.02 2359.02 2359.02 2359.02 2359.02 2323.02 30 23222.39 23102.54 23252.38 22525.36 23102.54 22525.36 23102.54 22525.36 23102.54 22525.36 20509.254 22525.36 20509.35 14560.33 120529.46 20520.66 20520.56 1960.35 136507.31 1453.719 1473.79 18507.31 14653.68 18279.39 15655.68 18279.37 15572.37.03 15572.37 13519.00 14973.03 14733.86	I 4528,11 I 42402,17 I 39235,34 I 34345,16 I 34345,16 I 34345,16 I 29210,70 I 2681,02 I 24765,59 I 22490,20 I 205:93 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,26 I 3105,41 I 5941,77 I 5941,77 I 5941,77 I 5941,77 I 5941,77 I 594,83 I 2312,71 I 593,39 I 235,39 I 295,39 I 295,40 I 2	- 60899.27 1 6829.27 1 6829.27 1 6829.27 1 6573.28 1 6015.62 1 6015.62 1 6130.84 1 2486.36 1 648.21 26.85 1 -212.34 - 212.34 - 212.34 - 3191.28 - 3209.35 - 4578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.27 - 523.28 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 7742.59 - 8355.60 - 8340.79 - 8475.10 - 8475.10	1.6774 1.5720 1.3778 1.3778 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 0.3908 0.39576 0.395						
3.3 3.4 5.4 3.4 5.5 1 5.6 1 7.0 1 8.3 1 9.6 1 9.6 1 9.6 1 9.6 1 9.6 1 9.6 1 9.6 1 10.0 1 11.0 1 12.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 15.5 1 24.5 <th>36415.58 36415.58 </th> <th></th> <th>29599.84 22559.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 275079.86 275079.86 275079.86 275079.86 275079.86 275079.86 275080.35 27658.38 20520.66</th> <th>I 4528,11 I 42402,17 I 39235,34 I 34345,16 I 34345,16 I 34345,16 I 29210,70 I 2681,02 I 24765,59 I 22490,20 I 205:93 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,26 I 3105,41 I 5941,77 I 5941,77 I 5941,77 I 5941,77 I 5941,77 I 594,83 I 2312,71 I 593,39 I 235,39 I 295,39 I 295,40 I 2</th> <th>- 60899.27 1 6829.27 1 6829.27 1 6829.27 1 6573.28 1 6015.62 1 6015.62 1 6130.84 1 2486.36 1 648.21 26.85 1 -212.34 - 212.34 - 212.34 - 3191.28 - 3209.35 - 4578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.27 - 523.28 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 7742.59 - 8355.60 - 8340.79 - 8475.10 - 8475.10</th> <th>1.6774 1.5720 1.3778 1.3778 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 0.3908 0.39576 0.395</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	36415.58 36415.58		29599.84 22559.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 275079.86 275079.86 275079.86 275079.86 275079.86 275079.86 275080.35 27658.38 20520.66	I 4528,11 I 42402,17 I 39235,34 I 34345,16 I 34345,16 I 34345,16 I 29210,70 I 2681,02 I 24765,59 I 22490,20 I 205:93 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,26 I 3105,41 I 5941,77 I 5941,77 I 5941,77 I 5941,77 I 5941,77 I 594,83 I 2312,71 I 593,39 I 235,39 I 295,39 I 295,40 I 2	- 60899.27 1 6829.27 1 6829.27 1 6829.27 1 6573.28 1 6015.62 1 6015.62 1 6130.84 1 2486.36 1 648.21 26.85 1 -212.34 - 212.34 - 212.34 - 3191.28 - 3209.35 - 4578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.27 - 523.28 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 7742.59 - 8355.60 - 8340.79 - 8475.10 - 8475.10	1.6774 1.5720 1.3778 1.3778 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 0.3908 0.39576 0.395						
3.3 3.4 5.4 3.4 5.5 1 5.6 1 7.0 1 8.3 1 9.6 1 9.6 1 9.6 1 9.6 1 9.6 1 9.6 1 9.6 1 10.0 1 11.0 1 12.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 14.5 1 15.5 1 24.5 <th>36415.58 36415.58 </th> <th></th> <th>29599.84 22559.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 275079.86 275079.86 275079.86 275079.86 275079.86 275079.86 275080.35 27658.38 20520.66</th> <th>I 4528,11 I 42402,17 I 39235,34 I 34345,16 I 34345,16 I 34345,16 I 29210,70 I 2681,02 I 24765,59 I 22490,20 I 205:93 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,26 I 3105,41 I 5941,77 I 5941,77 I 5941,77 I 5941,77 I 5941,77 I 594,83 I 2312,71 I 593,39 I 235,39 I 295,39 I 295,40 I 2</th> <th>- 60899.27 1 6829.27 1 6829.27 1 6829.27 1 6573.28 1 6015.62 1 6015.62 1 6130.84 1 2486.36 1 648.21 26.85 1 -212.34 - 212.34 - 212.34 - 3191.28 - 3209.35 - 4578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.27 - 523.28 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 7742.59 - 8355.60 - 8340.79 - 8475.10 - 8475.10</th> <th>1.6774 1.5720 1.3778 1.3778 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 0.3908 0.39576 0.395</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	36415.58 36415.58		29599.84 22559.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 27554.02 275079.86 275079.86 275079.86 275079.86 275079.86 275079.86 275080.35 27658.38 20520.66	I 4528,11 I 42402,17 I 39235,34 I 34345,16 I 34345,16 I 34345,16 I 29210,70 I 2681,02 I 24765,59 I 22490,20 I 205:93 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,23 I 2269,26 I 3105,41 I 5941,77 I 5941,77 I 5941,77 I 5941,77 I 5941,77 I 594,83 I 2312,71 I 593,39 I 235,39 I 295,39 I 295,40 I 2	- 60899.27 1 6829.27 1 6829.27 1 6829.27 1 6573.28 1 6015.62 1 6015.62 1 6130.84 1 2486.36 1 648.21 26.85 1 -212.34 - 212.34 - 212.34 - 3191.28 - 3209.35 - 4578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.35 - 5169.59 - 5578.27 - 523.28 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 77242.58 - 7742.59 - 8355.60 - 8340.79 - 8475.10 - 8475.10	1.6774 1.5720 1.3778 1.3778 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 1.3077 0.3908 0.39576 0.395						
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5-2 Calculation Sheet of Economic Cost Plow

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YELLI	RENT CREELTE D	A INSTAULEO B. CAPACILITI		LAFKEL	J FELEO :	144414816	I TOTAL	TRANS- TRANS- TOLA COST	I SUR- I STATION	ANGUAL COST	
11	1384.90		0.0							initi (INSC.TC
21	1787.70 3249.20		0.0	0.0	1 0.0		1 -	0.0	0,0	1 0.6	1341.9
- 6 8 - 5 1 - 6 8	5788.70 5787,80 2402.10	0.01	0.0	0.0	1 0.0	1 0.0	1.0.0	0.0	1 0,0 1 0,0	0.0	3259.2
11	0.9 0.0	200.0 4	0.0 459.9	1 631.5	233.50	1 0.0	298.50	1 . 0.0	0.0	1 0.0 1	5787.4
9 I 19 I		200.0 1	659.9 659.9 659.9	1 532.5	1 278.50	0.0	1 298.50	1 3.95	1 0.0	1 1 1 1 1 1 1 1	392.4
- 14 - 1 - 12 - 1 - 13 - 4	0.0 0.0	209.0 1	659.9 659.9	631.5	278.50	0.3		1 3.90 1 3.90	19,9 .0 19,9.9	1 302.40 j 1 302.40 l	392.4
	0.9 (0.9 (9.9 (200.0	459.9 539.9	631.5	298.50	0.0	211.50	1	0.0	302,40	392.4
- 16 a - 17 p	0.9	209.0	859.9 659.9 659.9	I 61,5 j	235.50	0.0	231 64	I 3.50 J	0.0		392.4
11 1	0.0 0.9	203.0 1	659.9 659.9	ا دْ (دْ ۱	233.50	2 0 0 J	294.50	3.90	0.0	t:=302.50 ∎	302.4
20 1	0.9	205.0	659.9 (431.5 631.5	275.50	J.0	228.52	1 3.96 1 1 3.96 1	0.0	302.40 1	302.4 302.4 302.4
23	0.0 0.9 0.0 1	203.0 1	659.9 (559.9 (1 (6)1.574 1 (6)1.571	293.50	0.0			0.0	302.40°1	392.4
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27-1 25-1 27-1	1 C_0 1 C2.918	503-0 T	659.9	631.51	231,50 233,50 238,50	0.0 1	291.52	3.90	0.0	302.40	302.4
33 H 31 H	3019.49 1 2356.59 P 969.79 T	203-0 1	659.9 I 659.9 I	631.5 1 631.5 1	299.50	0.0 0.0 0.0	291.50	3.90 1	0.0	302.40	982.G
32 1	0.3 1	263.0 1 207.0 1 207.0 1	659.9 4 659.9 1 659.9 1	631.5 1	273.50 1 273.50 1	0.0 1	295.50	3.93 1	0.0	302.60 I 302.60 I	-3158.9
36 1	9.3 I 0.) I	203.9 i 203.0 j	659.9 1	631.5 1	278.50 278.50 278.50 278.50	0.0 1	298.52	3.93	0.0	302.60 302.60 302.60	302.40 302.41 332.41
36 1 37 1 33 1	0.1 0.7 0.7	200.0 I 200.0 I	659.9 I	631.5 1	273.50 8	0.0 4 0.0 4 0.0 1	299.53 1	3.95	0.0 1	302.40	
39 I 43 I	9.9 I 9.9 I	203.9 1 203.0 1 203.9 1	659.9 659.9 657.9	631.5 1 631.5 1	293,50 I 293,50 I		- 235.55 1	3.90 3.90 3.90	0.0	302.40	332.4. 352.43
41 8	9.3 I 3.3 I	202.0 I 202.0 I	659.9 I	631.5 631.5 631.5	273.50 T 273.50 T	1 0.0	298.53 4	3.921	0.0 0.0	302.40 1 302.40 1 302.40 1	
43 J 46 J 45 J	0.2 1	207.9 H 207.9 H	659.9 I	631.5 1	233.50 273.50 233.50	0.0 1	293.50	3.90 1	0.0 I	302.40 1	302.40 372.40 372.41
45 I 47 I	2.9 P 9.3 I 9.3 I	202.0 1 202.9 1 203.0 1	659.9 E	631.5 I 631.5 I	219.55 1		298.50 294.50 294.50	3.90	0.0 I	302,40 1	302.40
55 F	0.0 I 0.0 I	203.0 1	459.9 # 659.9 # 659.9 #	631.5 1 631.5 1 531.5 1	213.50 1	0.0 1	298.55	3.90 F 3.90 F 3.90 F	0.0 1	302.10 1	302.40
50 # 51 F 52 F	0.9 1	263.0 I 203.0 I	659.9 P	631.5 1	233,50 1 293,50 1 213,50 1	0.0 1	298.50 1	3.90 3.90	0.0	302.46 1 302.46 1 302.40 1	312.41
53 I 54 I	0.0 + 0.0 + 0.9 +	203.0 1	659.9 I	631.5 1 631.5 1	273.50 1	0.0 8 ->,0 8 -2.0 8	291.59 1	3.50 I 3.90 I	0.0	302.40	302.43 302.44 302.44
55 B 55 B	0.9 s 0.7 s	263.0 1 263.0 1 263.0 1	459.9 659.9 659.9	631.5 I 631.5 I	233.50 1	0.0 1	293.50 1	3.90 3.90 3.90	0.0 1	302.40 1	302.43
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5-3 Calculation Sheet of Economic Benefit Plow

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10 1					211410	8 1 1 1 1 . 52 1	5166 C		0.0	5395.51	5395.5
· 41)		199.6			- 23/410		5386 61		1 0.0	5395.51	2372-5
÷ 12 i			671.8			1 57/1-52 1	5126.41		1 0.0	5355.51	5395.5
. <u>19</u> . j	0.0	1 199.6		431.4		1 4971-52 1	5395-51		0.0	5355.51	5395.51
14	0.0	199.6)	431.5	397.10	1 4971.52 1	2312.51		1 0.0 1	5395251	5395.5
<u>. 15 1</u>	0.0	197.6 1		l : €31.5 I	E 397.10			• · · ·		5355.51 1	5395.5
16 1	0.7	195.6			397-10	- 1 4922.52 1	Clec co			5315-51 1	- \$195.ŠI
- 11 1	0.0			*2112 1	1 331410	1 6976.52 0	5186 41	1 4 4 4		5395.51 1	5395.5
35 1	0.0		671.8 1 671.8 1	03113	358.10	1 5971.52 #	5165 61	1 0.0		5395.51 1	5385.5
20 1	0.9	197,6	471.4	431.5	1 377-18		638£ #8			5395.51 1	3373-31 6385 E
- 21 1	0.0	193.4	611.6	• • • • • • • • • • • • • • • • • • •	377.10	1 5971.52 1	\$335.51	F 0.0		5395.51	5165.51
- 22 F	0.7	190.6		A31.3	127.16	1 4971.52	5395.51		· 0.0 j	\$395.51 1	\$195.5
5 5 1	9.9 1	190.6 1								5395.51 1	5366.4
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27 1			\$71.0 E							5395.51	\$395.51
21	1585.35				137.18					5395.51 1 5395.51 1	5335.51
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- 35 Ì	6353.20 1			611.5	377-10	1 4971.52 1 1 4971.52 1 1 4971.52 1	5395 <u>-</u> 51	l 0.0 E 0.0	0.0	\$355.51	818748.1
. 31 F	1541.10 L	165.4		631.5	311.10	1 4271.52 1	5395-5L	E 0.0	t 0.0 i	5395.51 1	11141.7
- <u>35</u> F	0.3 1	157.4 1		411.5	117.14	8 4978.52 B	5355.51	I · Q.9	. 6.0 1	5355.51 1	
33.1	- e'o i	190 <u>4</u> 8	671.0 1		397.10	1 4971.52 1	3333.5L	.0.0	; Q.Q j	5395.51 4	5355-51
- 34 1				03103 1	- 337410	8 4978.57 1	<i>4161</i> (1		V V.9 1	5355.51 #	5145.51
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33 1				+31+2	111.10	1 4931.42 1	4146.41			5395.51 ±	>35>-51
39 T	0.0	190.6			337.10	1 4971.52 1	4146.61	l Aa'i		5395.51	5355431
45 1	0.0 1	190.6 1		431.5 1	397.10	1 4971.52 1	5355-51		, 6.0 I	>395.51 1	6166.61
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42.1	0.0	190.6 1	471.5 1	431.5 1	397.16	1 4971.52 1	3333431	.0.0	• v.a P	>395.51	5355.51
43 1			2 67118 1	431.5 1	397-10	1 4971-52 1			. 4.9 1	3355.52 8	\$195.51
45 1	0.0 1	199.6 1	. 471.4 1	• • • • • • •	397.16	3 4971.42 1	634k ka .		0.0	5355.51	5393.51
44 1		160.6 1	421-0 1		· 197.18					5395-5E F	5395-51
11 î î î î	0.9	103 6 4	471.4 1	• 7 1 • 7 1	17/.19	1 6970.52 0				5355.51 4 5355.51 1	>>>>>
43 E	ð 6	195.6 1	471.8 1		331410					5395.51	2332.3L
41 1		192.6 1	471.0 1		37/.10	1 (971,52)				5335.51	5355.51
54 1		190.6 1	471.4	631.5 F	337.84	1 1971-52 1	3313-51 1			5335.51	\$335.51
51.1	0.0 1	. 192.4 1	471.6 1	1 4115	342.14	1 4971.52 P 8 4978.52 P	>315.51		0.01	5335.51 1	\$3\$5.51
22.1	0.9 1	197.8 8	471.0 1	431.5	397.14	1 4971.52 1	2212451 i	0.0		5395.5F E	5355.51
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DATA FOR POWER SYSTEM ANALYSIS AND OUT-PUT OF POWER FLOW CALCULATION

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