

## 7. 基本設計図



## 資料7 基本設計図

### (処理場)

- No.1 案内図
- No.2 一般平面図
- No.3 フローシート
- No.4 水位関係図
- No.5 全体平面図
- No.6 断面図
- No.7 沈砂池構造図
- No.8 嫌気性池・浄化槽汚泥池平断面図
- No.9 通性池・熟成池平断面図
- No.10 パーシャル フリューム・分配水槽(1)、(2) 詳細図
- No.11 部分詳細図(1)
- No.12 部分詳細図(2)
- No.13 部分詳細図(3)
- No.14 管理棟平断面図
- No.15 場内整備平面図

### (幹線管渠)

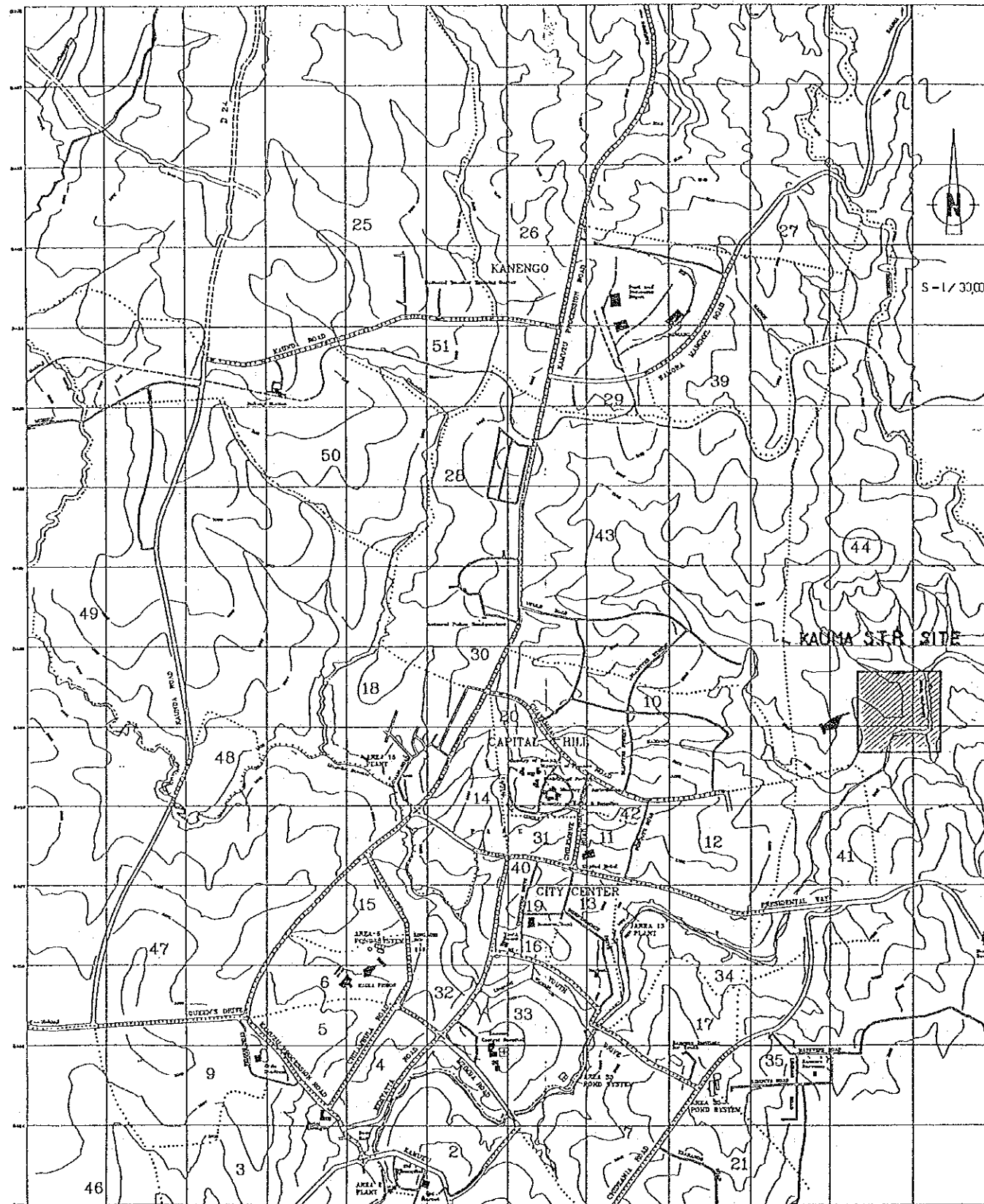
- No.16 幹線管渠平縦断図 No.1 幹線その1
- No.17 幹線管渠平縦断図 No.1 幹線その2
- No.18 幹線管渠平縦断図 No.1 幹線その3
- No.19 幹線管渠平縦断図 No.2 幹線その1
- No.20 幹線管渠平縦断図 No.2 幹線その2
- No.21 幹線管渠平縦断図 No.2 幹線その3
- No.22 幹線管渠平縦断図 No.2 幹線その4
- No.23 幹線管渠平縦断図 No.3 幹線その1
- No.24 幹線管渠平縦断図 No.3 幹線その2
- No.25 幹線管渠平縦断図 No.3 幹線その3
- No.26 幹線管渠平縦断図 No.3 幹線その4
- No.27 幹線管渠平縦断図 No.3 幹線その5
- No.28 幹線管渠平縦断図 No.3 幹線その6
- No.29 幹線管渠平縦断図 No.3 幹線その7

### (枝線管渠)

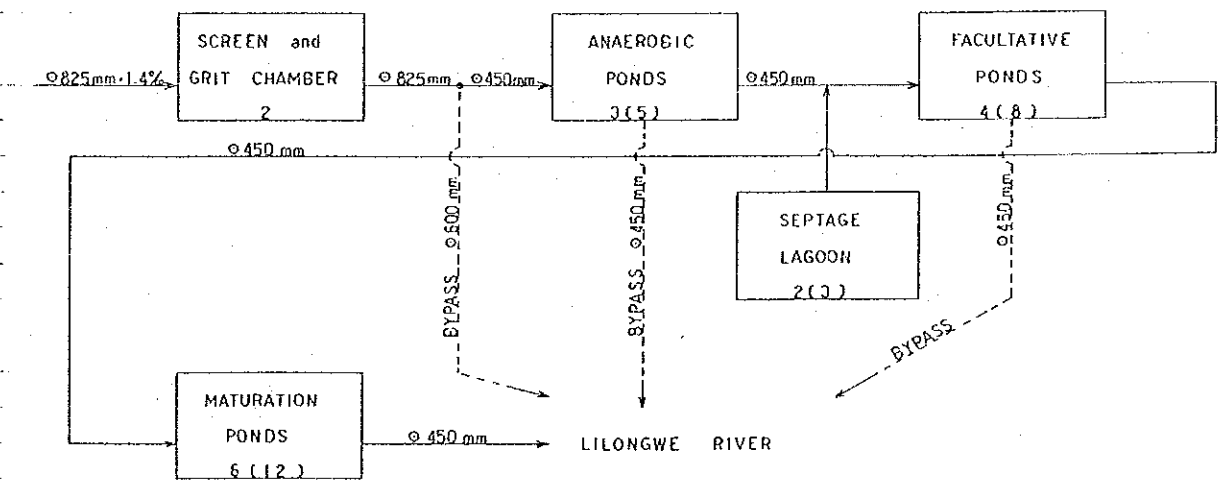
- No.30 エリア1 施設平面図
- No.31 エリア2 施設平面図
- No.32 エリア6 接続管渠平縦断図
- No.33 マンホール標準図



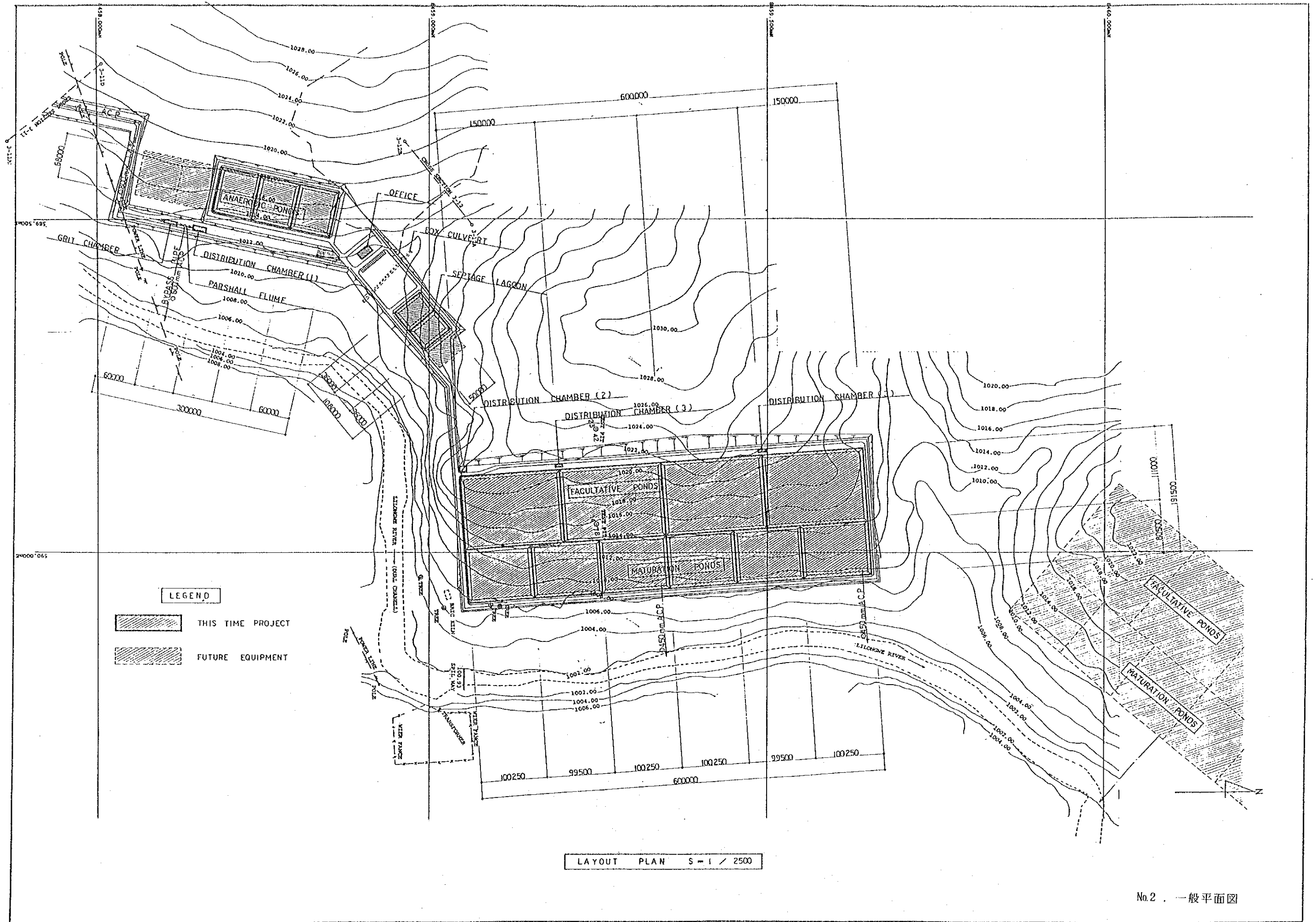




- (1) SEWAGE QUANTITY : GRAVITY FLOW  
 DAILY AVERAGE (Q1) = 6,100 m<sup>3</sup>/day (15,600 m<sup>3</sup>/day)  
 HOURLY MAX (Q2) = 585 m<sup>3</sup>/hour (1495 m<sup>3</sup>/hour) = 14,030 m<sup>3</sup>/day (35,880 m<sup>3</sup>/day)  
 ( ) : FUTURE PROJECT.  
 HOURLY MAX = DAILY AVERAGE × 2.3 × 1/24
- (2) SEWAGE QUALITY  
 BOD in = 300 mg/l  
 S S in = 350 mg/l  
 NUMBER OF FECAL COLIFORM BACTERIA GROUP = 2.0 × 10<sup>7</sup> MPN / 100 ml
- (3) TREATED SEWAGE QUALITY  
 BOD out = 20 mg/l  
 S S out = 30 mg/l  
 NUMBER OF FECAL COLIFORM BACTERIA GROUP = 1.0 × 10<sup>3</sup> MPN / 100 ml
- (4) TREATMENT SYSTEM  
 STABILIZATION POND SYSTEM ( S.P. )
- (5) DESIGN CRITERIA
  - 1) GRIT CHAMBER : G.C.  
 WATER SURFACE LOADING = LESS THAN 1,800 m<sup>3</sup>/m<sup>2</sup>·day at HOURLY MAXIMUM FLOW
  - 2) ANAEROBIC POND : A.P.  
 BOD VOLUMETRIC LOADING = 160 g·BOD<sub>5</sub>/m<sup>3</sup>·day  
 DETENTION TIME = 2.0 days  
 WATER DEPTH = 4.0 m
  - 3) FACULTATIVE POND : F.P.  
 BOD SURFACE LOADING = 192 Kg·BOD<sub>5</sub>/ha·day (15.2°C)  
 WATER DEPTH = 1.5 m
  - 4) MATURATION POND : M.P.  
 DETENTION TIME = 3.0 days  
 WATER DEPTH = 1.5 m
  - 5) SEPTAGE LAGOON : S.L.  
 BOD VOLUMETRIC LOADING = 200 g·BOD<sub>5</sub>/m<sup>3</sup>·day  
 DETENTION TIME = 20.0 day
- (6) FLOW DIAGRAM

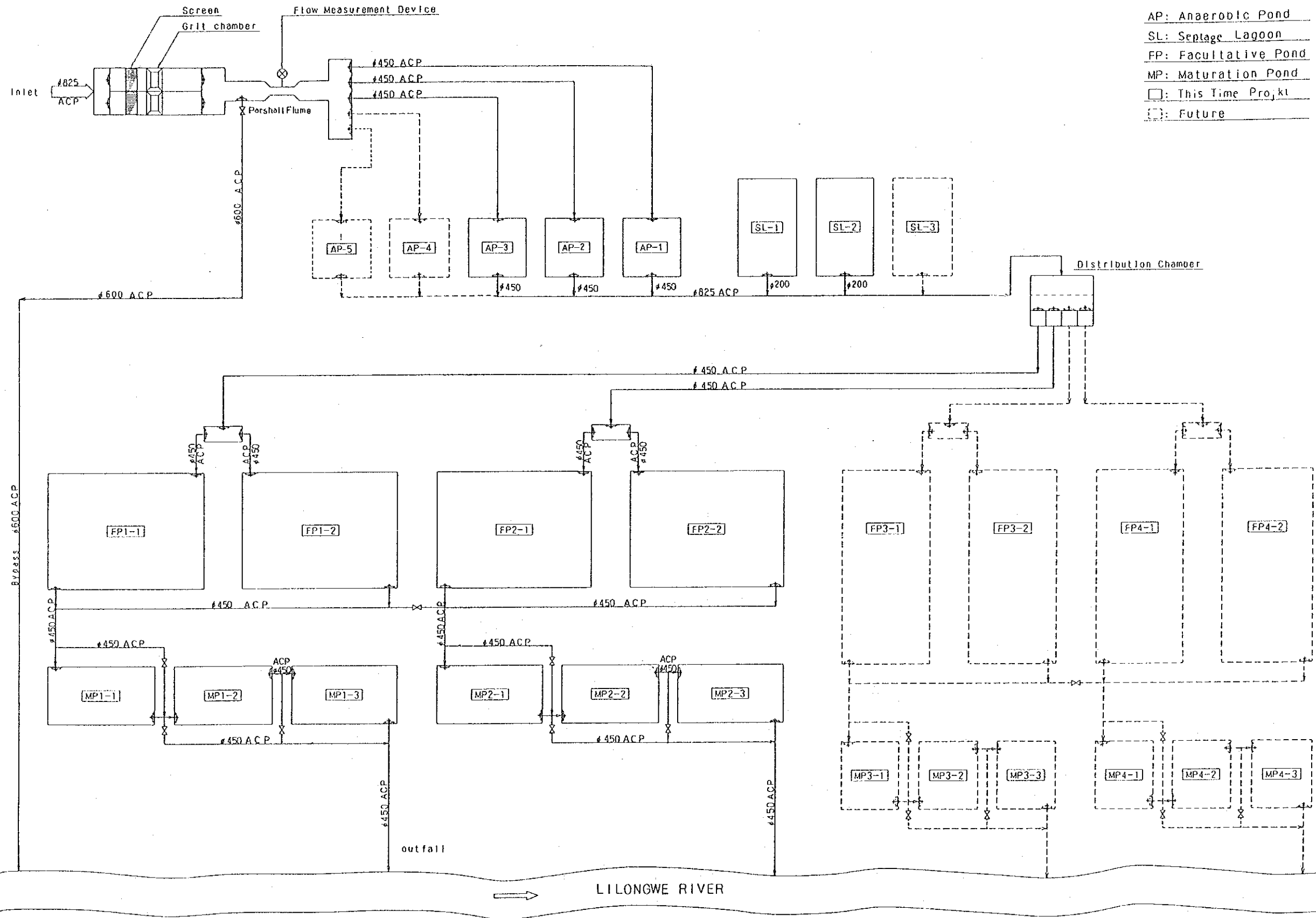


No.1 . 案内図



No.2 . 一般平面图

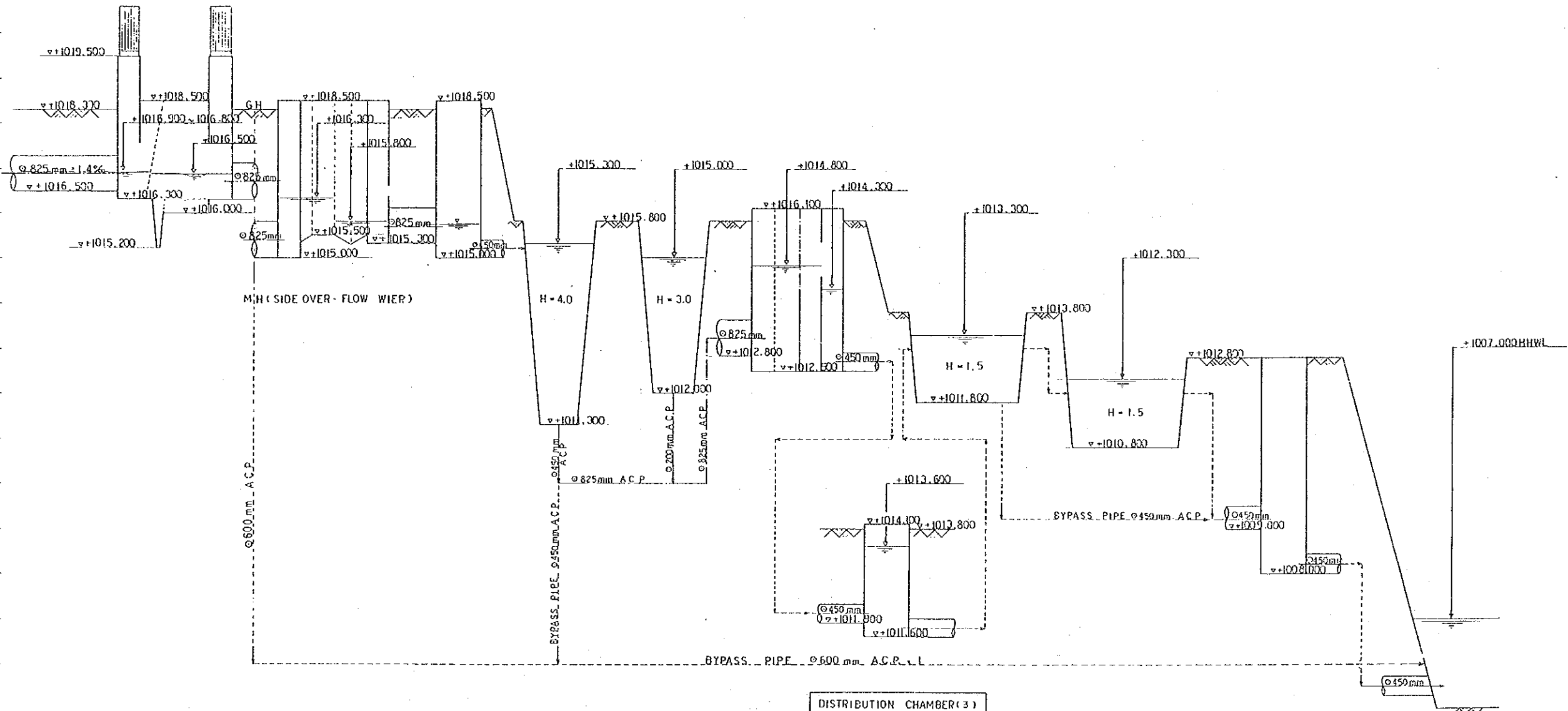
# Flow Diagram of KAUMA Sewage Treatment Plant



- AP: Anaerobic Pond
- SL: Septage Lagoon
- FP: Facultative Pond
- MP: Maturation Pond
- : This Time Project
- ⋯: Future



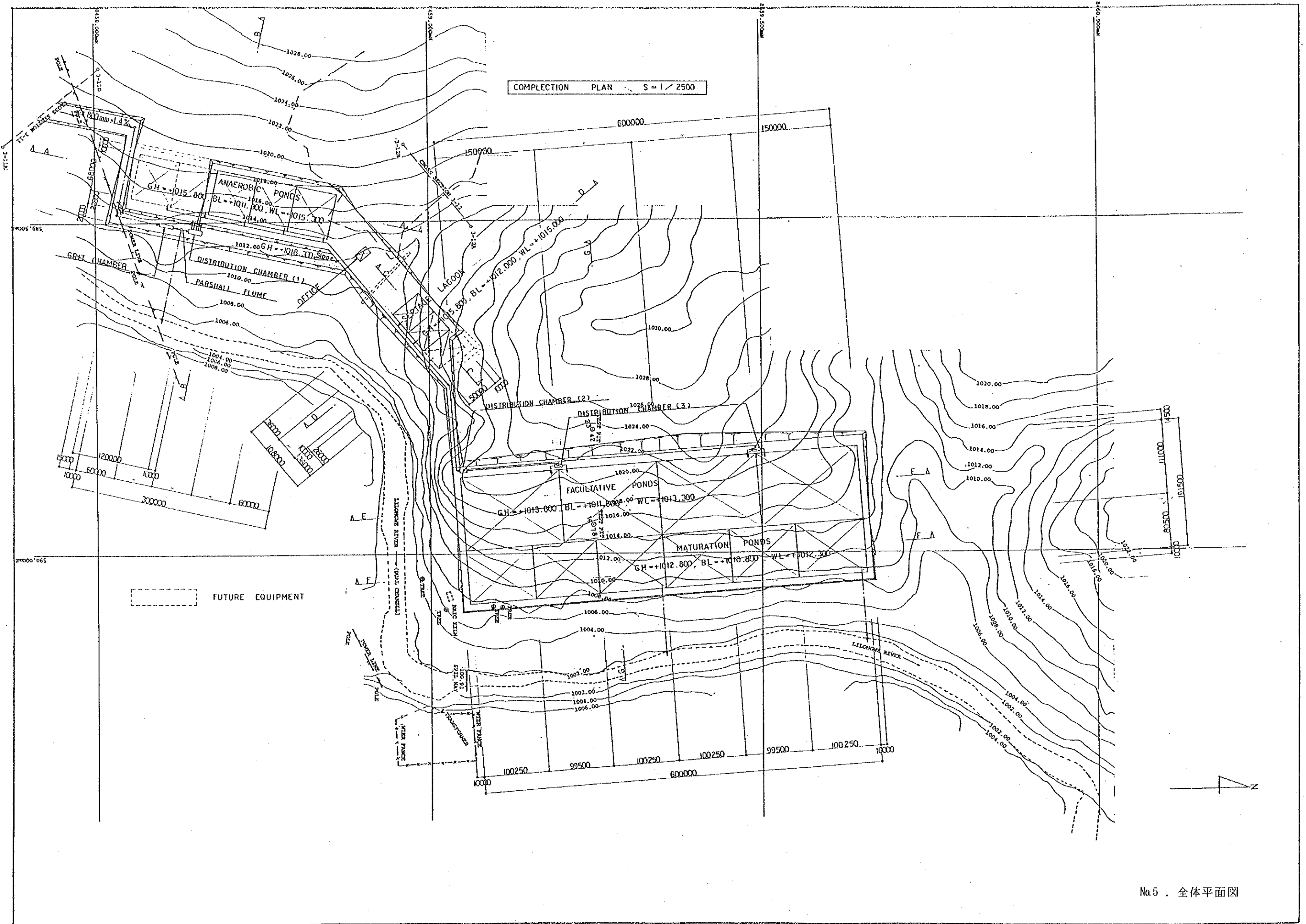
+ 1021.000  
 + 1020.000  
 + 1019.000  
 + 1018.000  
 + 1017.000  
 + 1016.000  
 + 1015.000  
 + 1014.000  
 + 1013.000  
 + 1012.000  
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 + 1006.000  
 + 1005.000



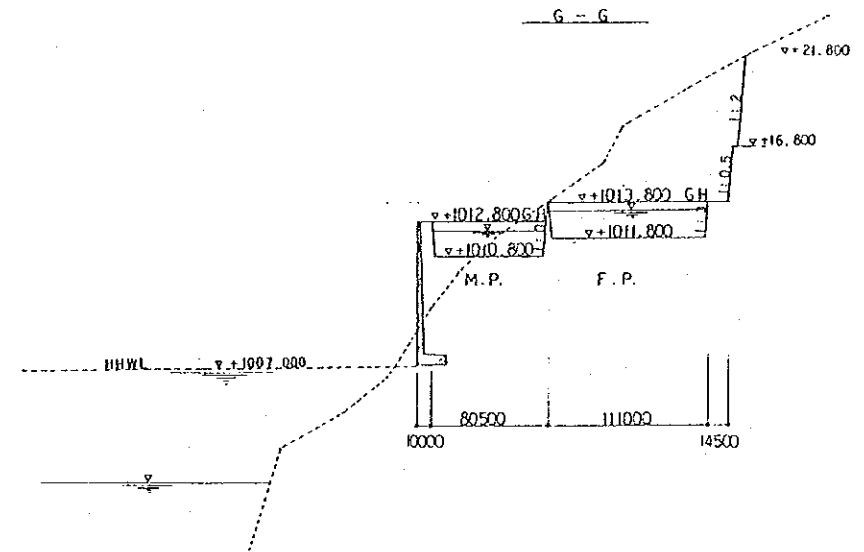
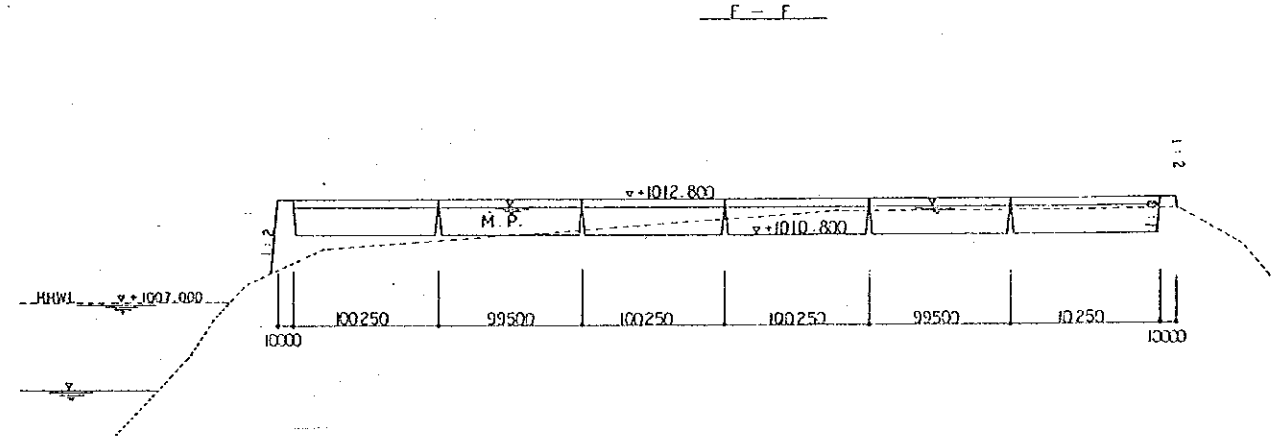
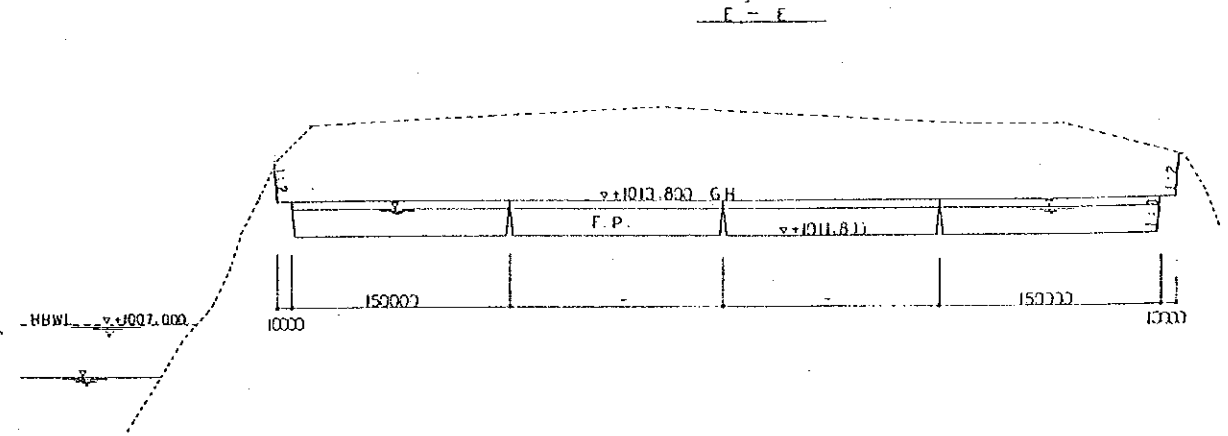
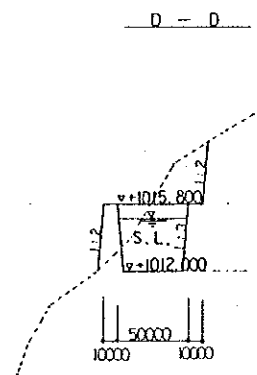
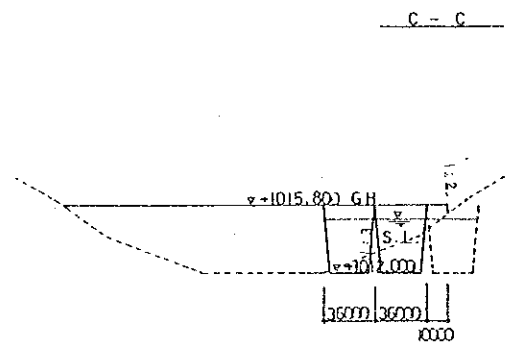
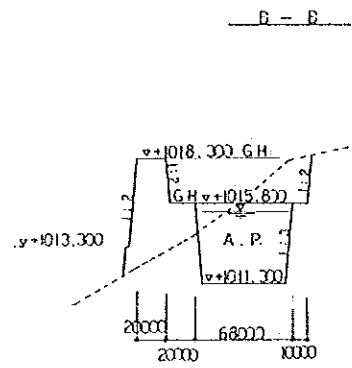
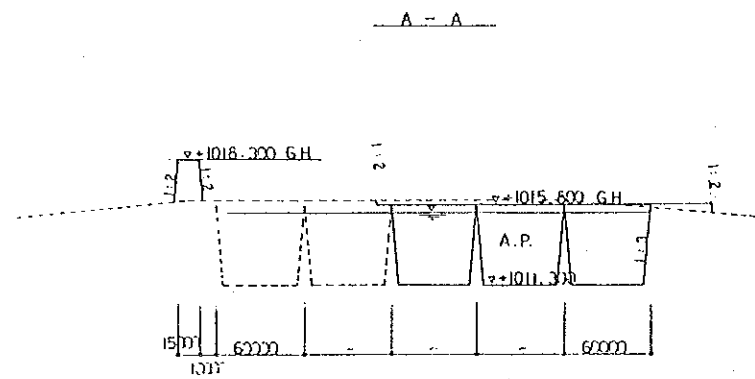
	GRIT CHAMBER	PARSHALL FLUME	DISTRIBUTION CHAMBER(1)	ANAEROBIC PONDS	SEPTAGE LAGOON	DISTRIBUTION CHAMBER(2)	2(4)	FACULTATIVE PONDS	MATURATION PONDS	MANHOLE	LILONGWE RIVER				
NUMBER(FUTURE NUMBER)	2	1	1	3(5)	3(5)	1	2(3)	1	2(4)	4(8)	4(8)	6(12)	2(4)	2(4)	2(4) + 1(BYPASS)

HYDRAULIC PROFILE H = 1/50. V = NOT. Sc.

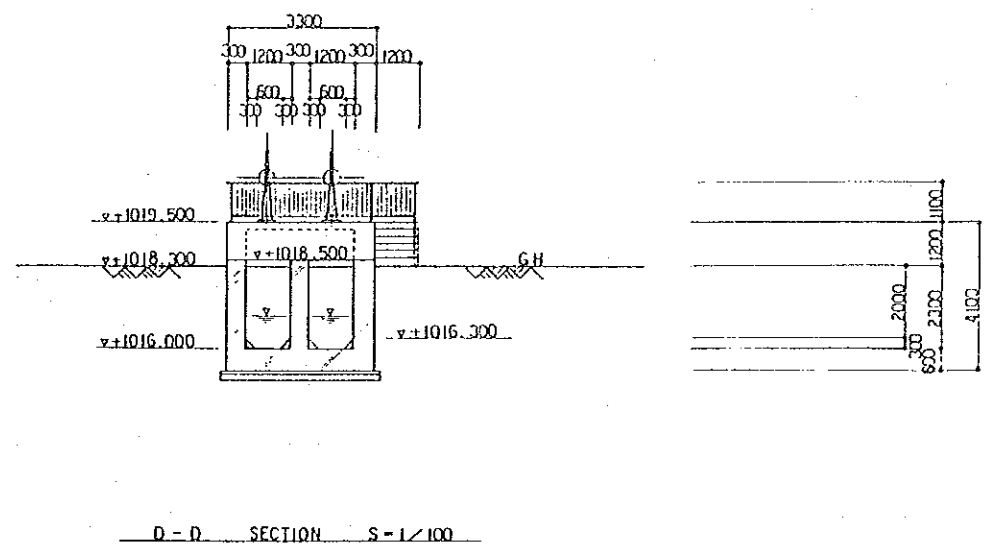
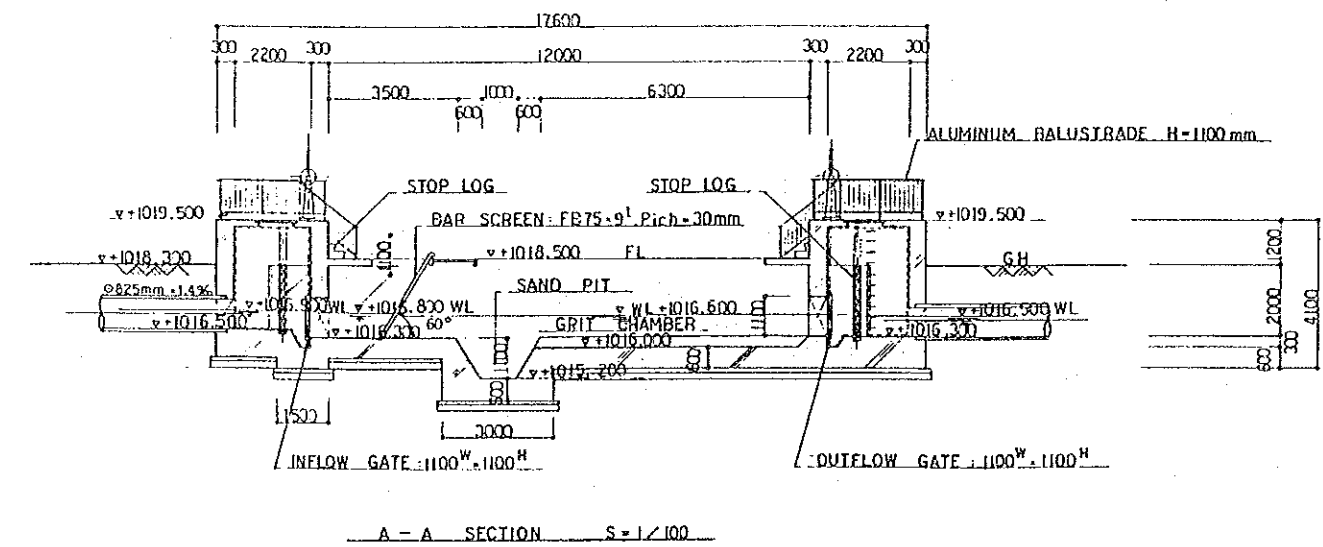
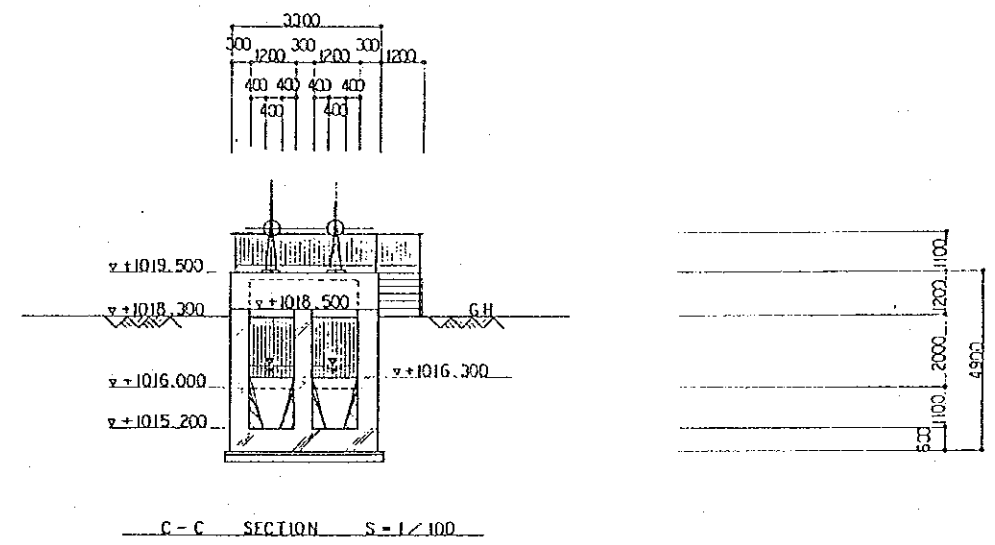
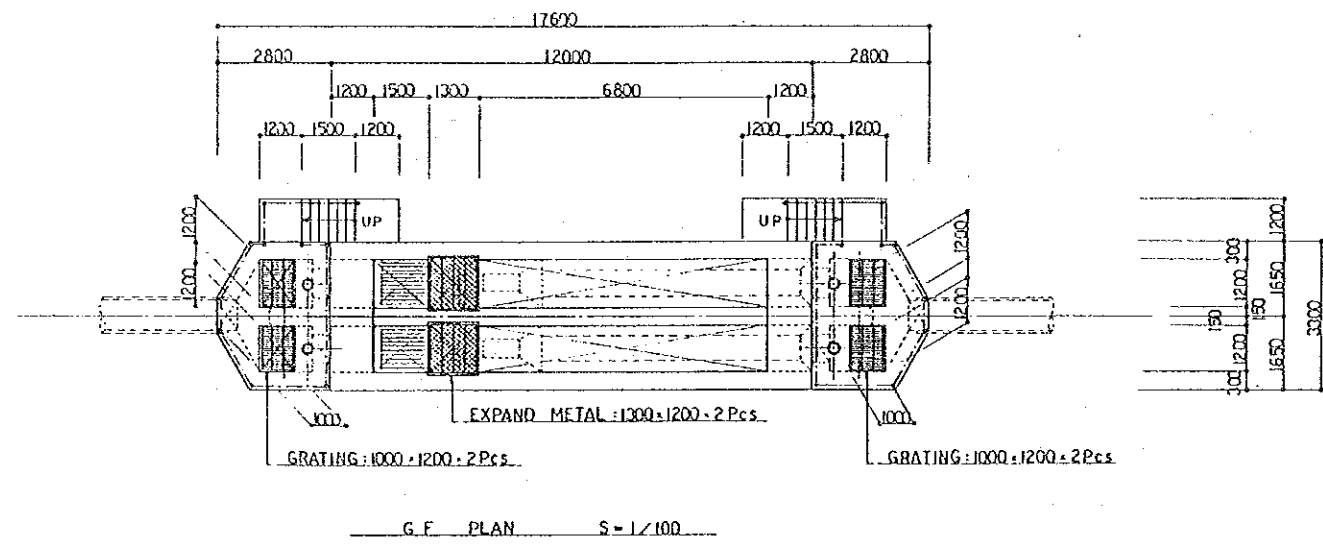
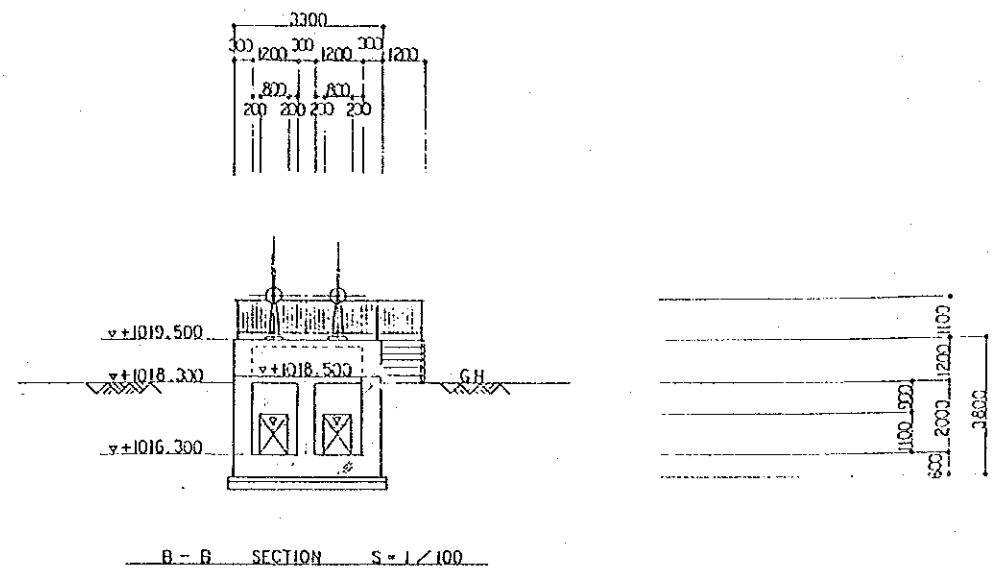
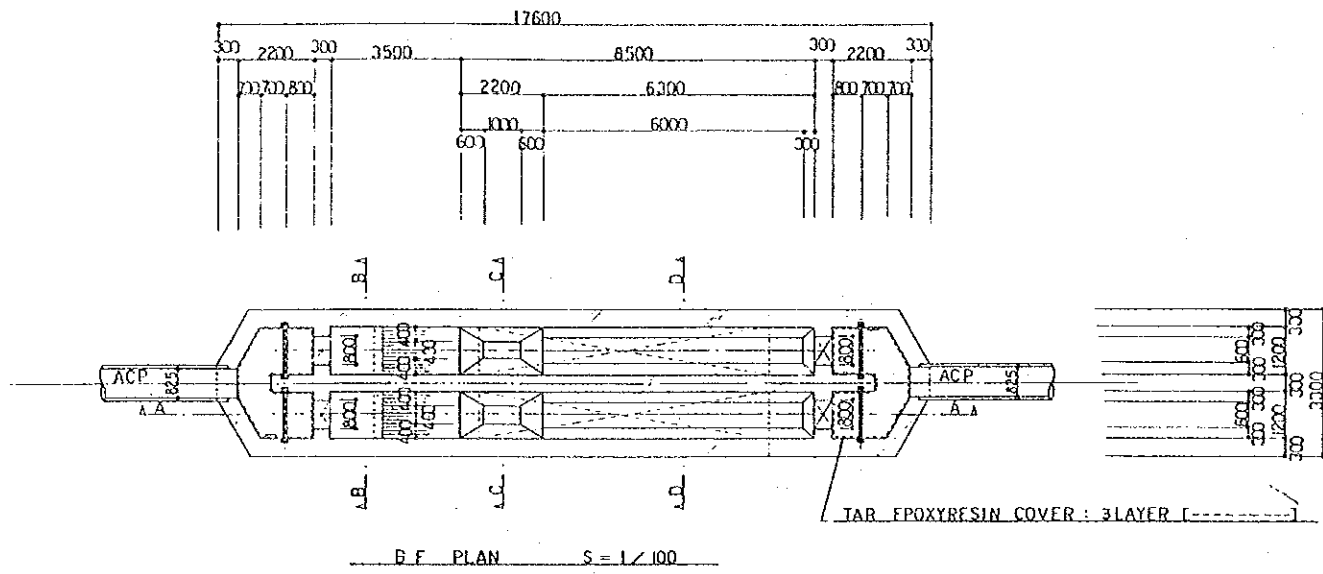
No.4 . 水位関係図



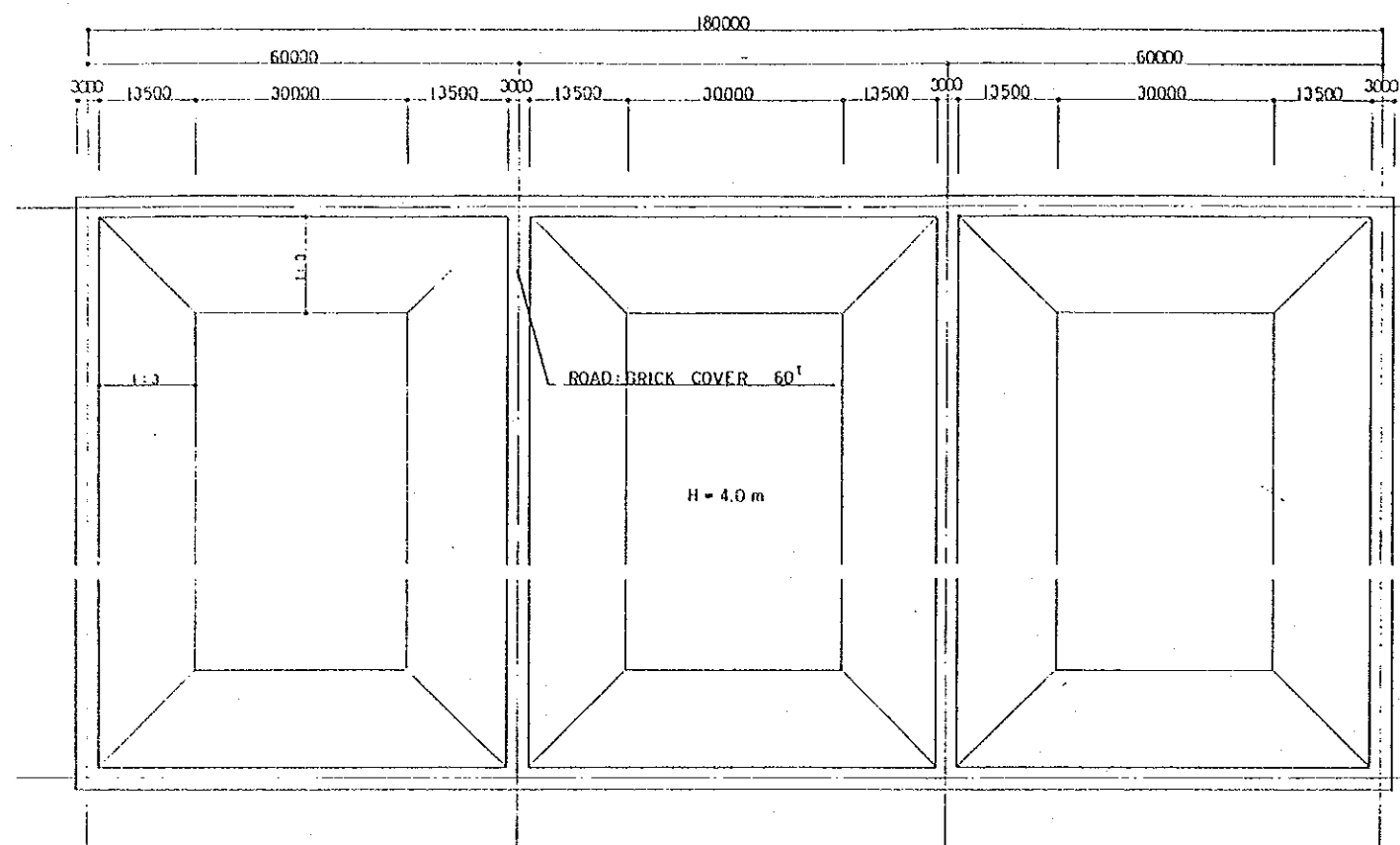
TRANSVERSE and VERTICAL SECTION S: V=1/2500, H=1/200



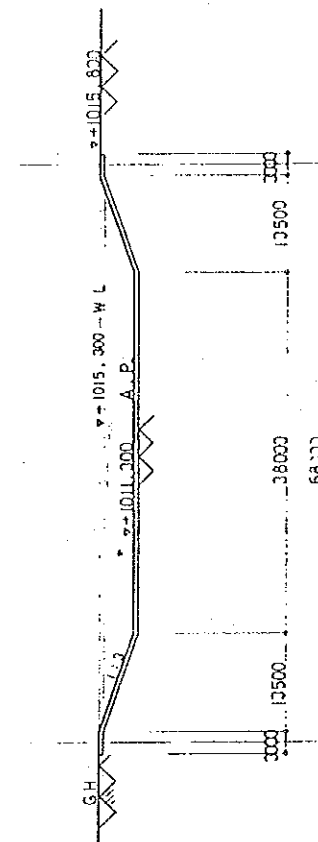
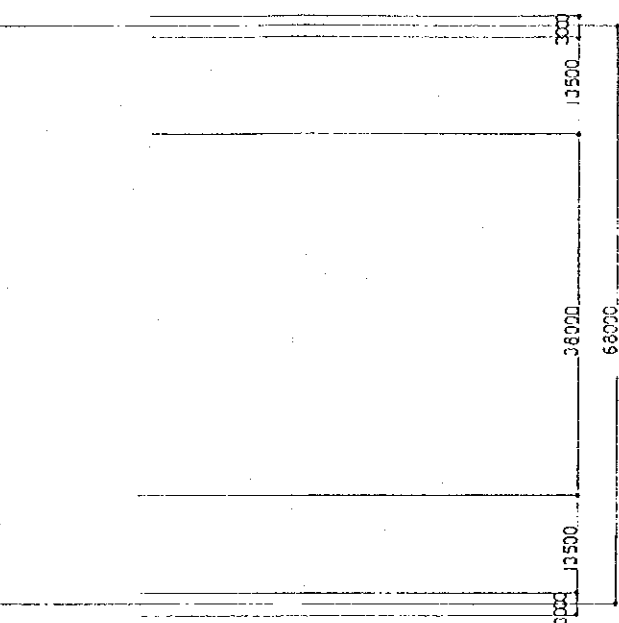
No.6 断面图



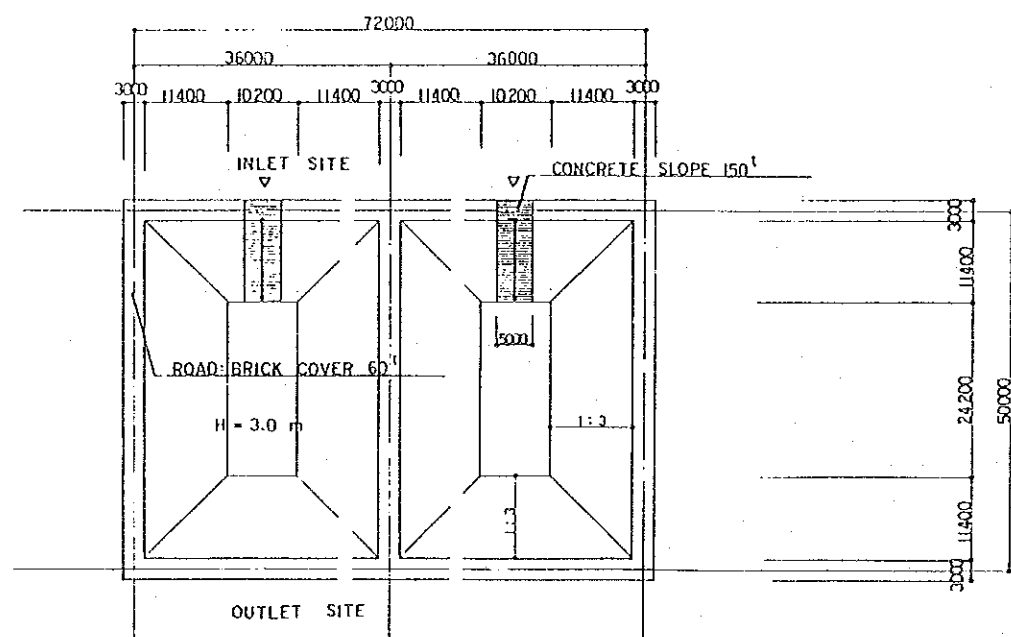
No.7 . 沈砂池構造図



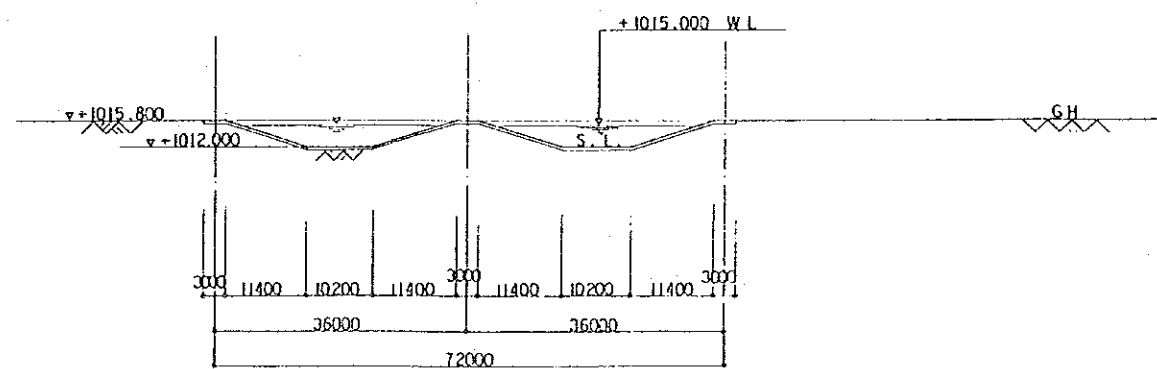
ANAEROBIC PONDS PLAN S = 1/500



ANAEROBIC PONDS SECTION S = 1/500



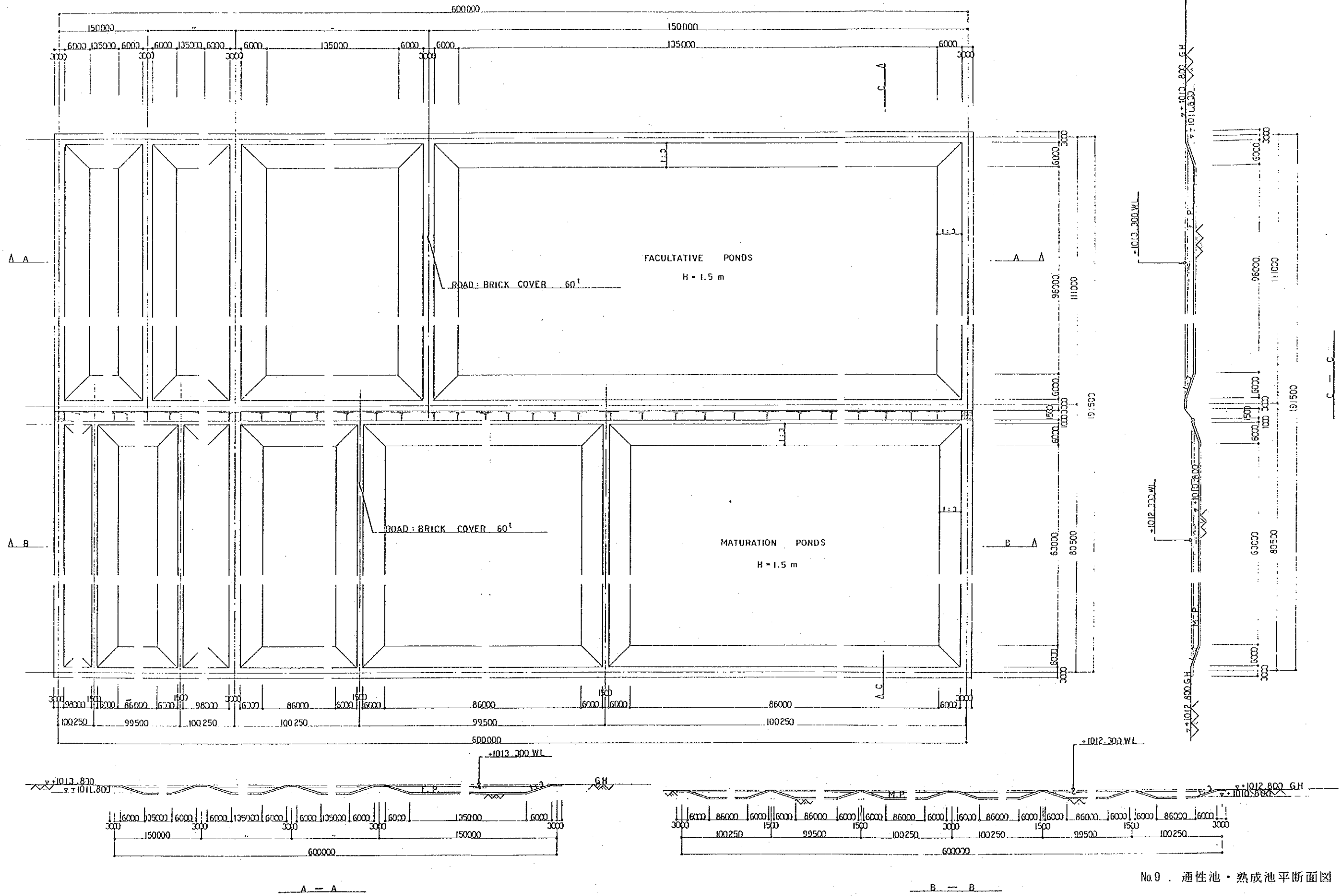
SEPTAGE LAGOON PLAN S = 1/500



SEPTAGE LAGOON SECTION S = 1/500

No.8 . 嫌気性池・浄化槽汚泥池平断面図

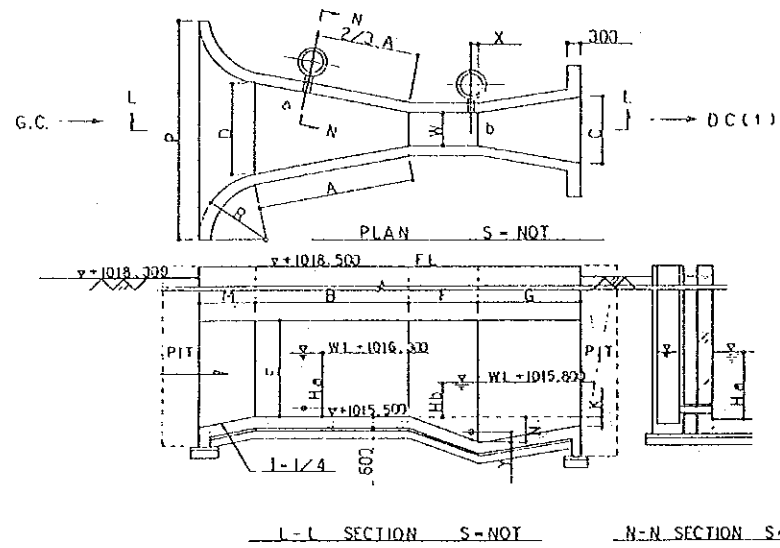
FACULTATIVE PONDS MATURATION PONDS PLAN and SECTION S=1/500



No.9. 通性池・熟成池平面断面图

PARSHALL - FLUME DETAIL

S = NOT

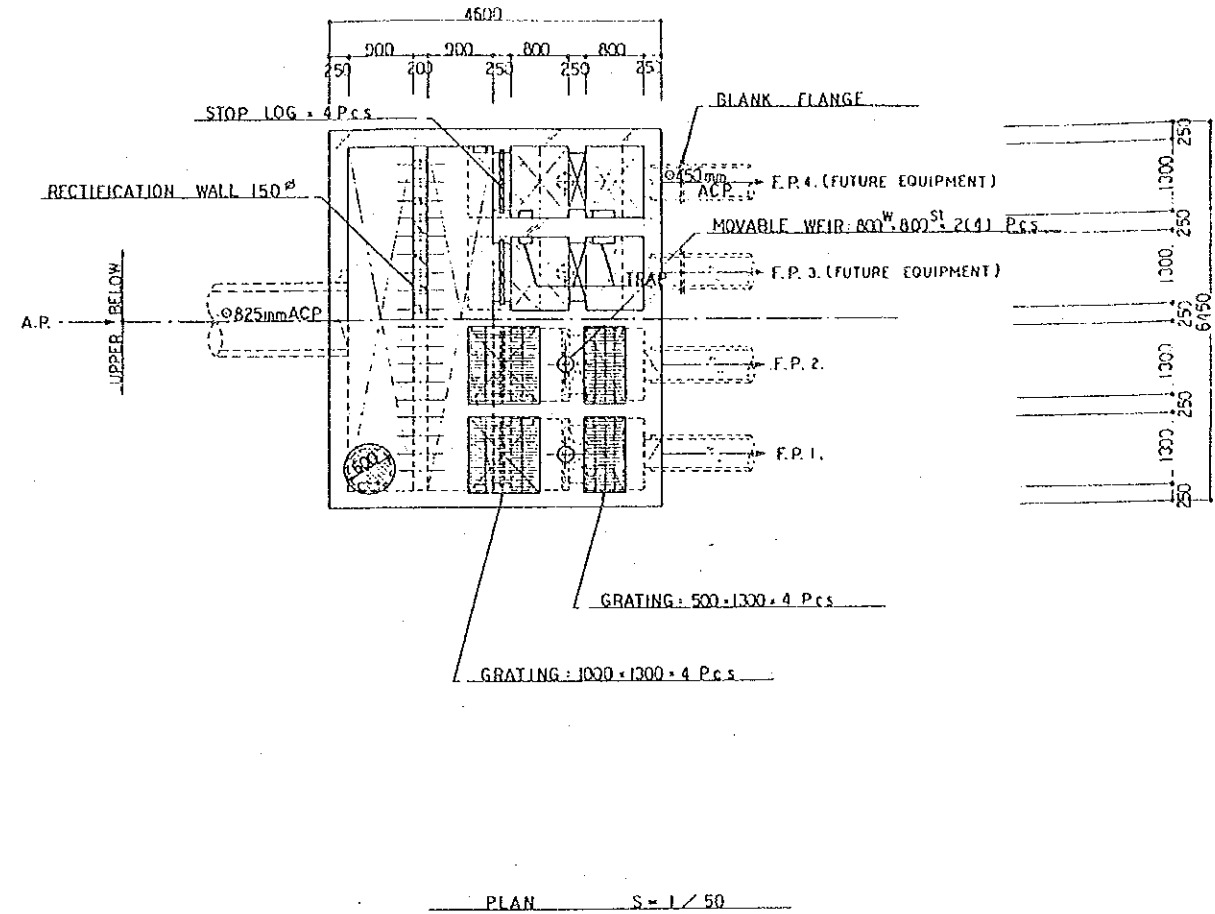


W	45.72	K	7.6
A	144.8	N	22.9
2/3 A	96.5	R	50.8
B	141.9	M	38.1
C	76.2	P	167.6
D	102.6	X	5.1
E	91.4	Y	7.6
F	61.0		UNIT: cm
G	91.4		

( Q : FLUX PER SECOND )  
 MAX = 0.697 m<sup>3</sup>/s  
 MIN = 0.00425 m<sup>3</sup>/s

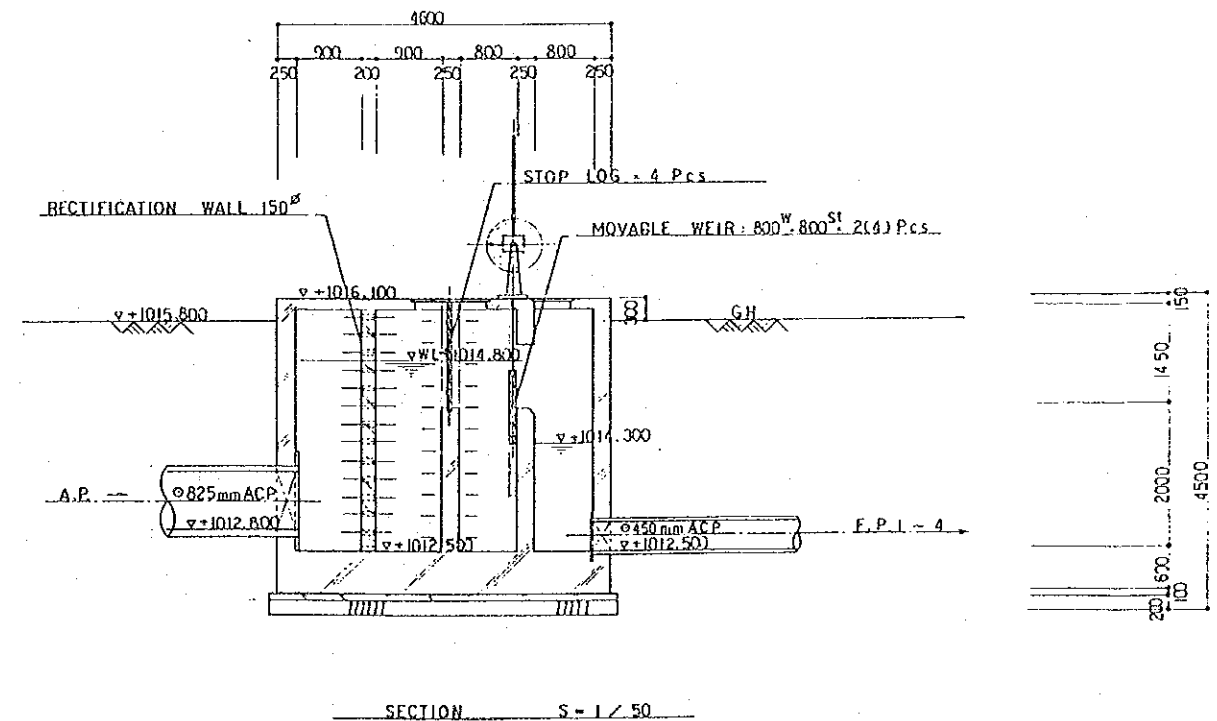
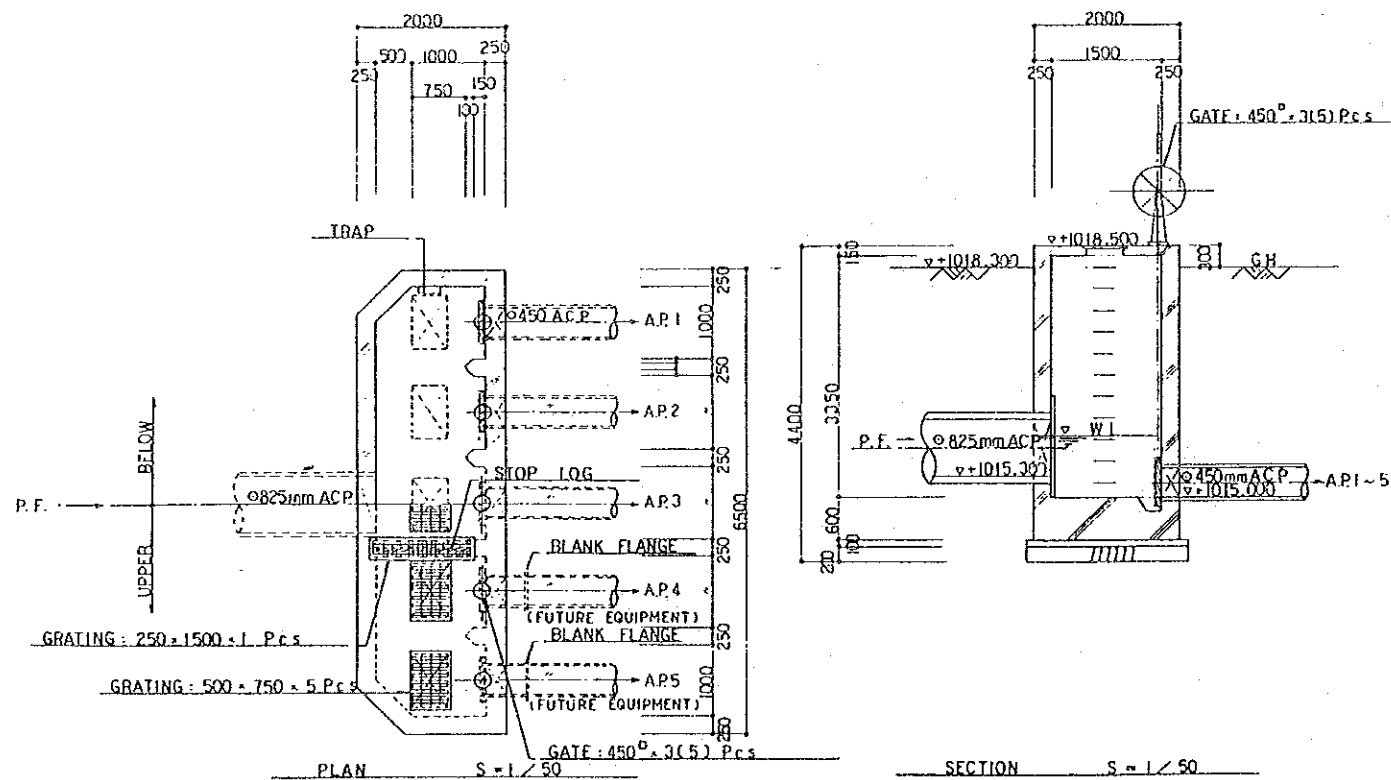
DISTRIBUTION CHAMBER ( 2 ) DETAIL

S = 1 / 50

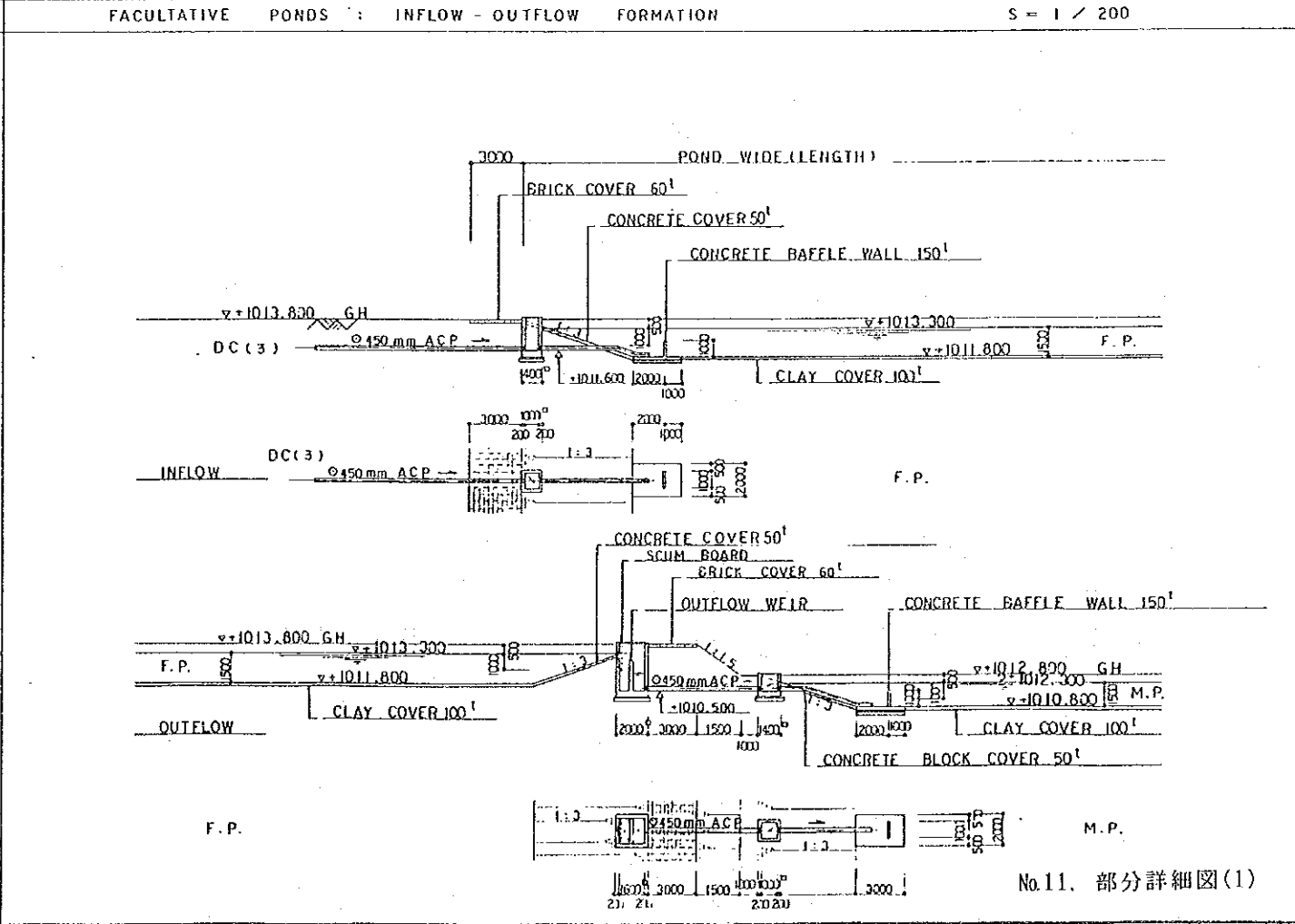
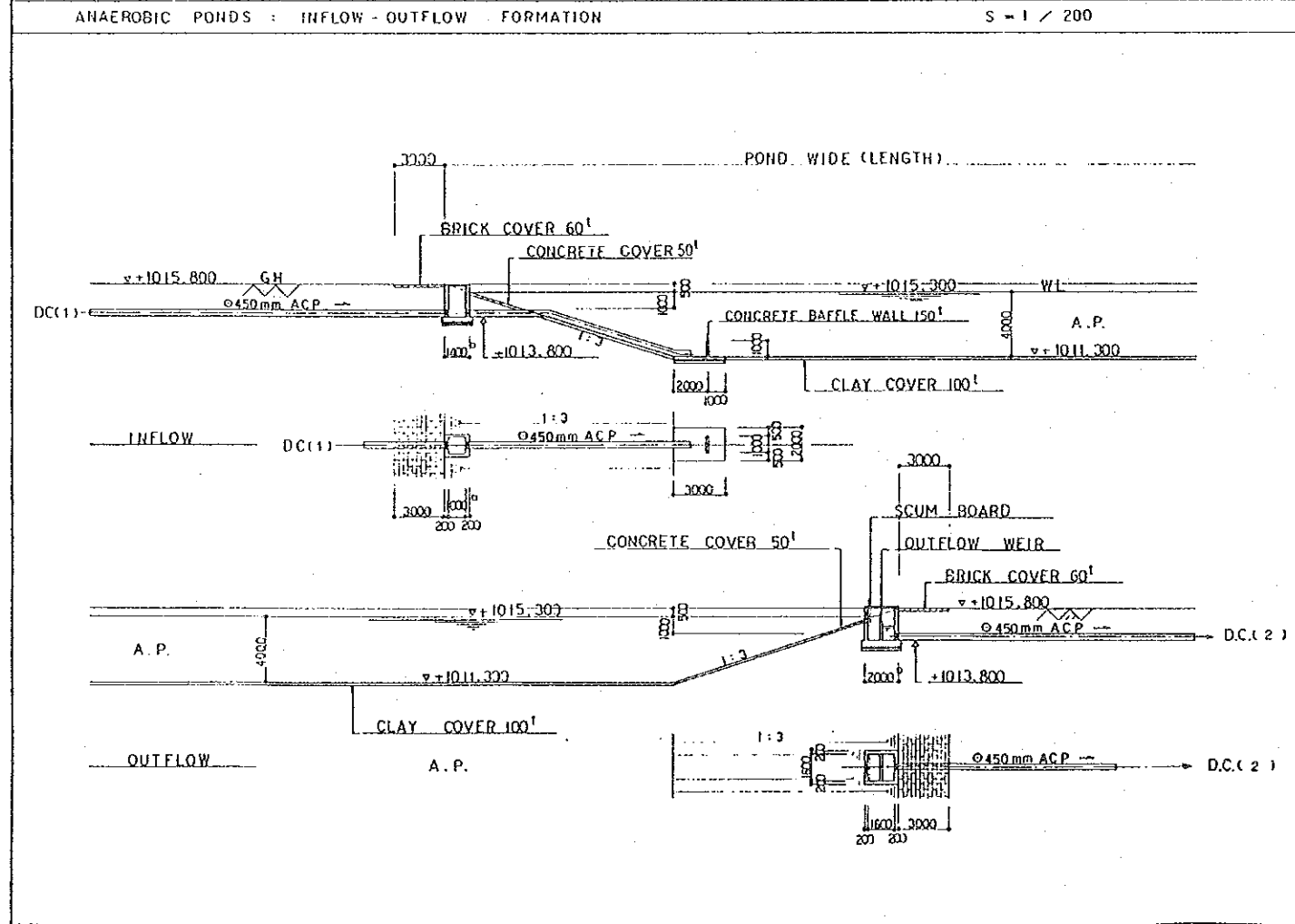
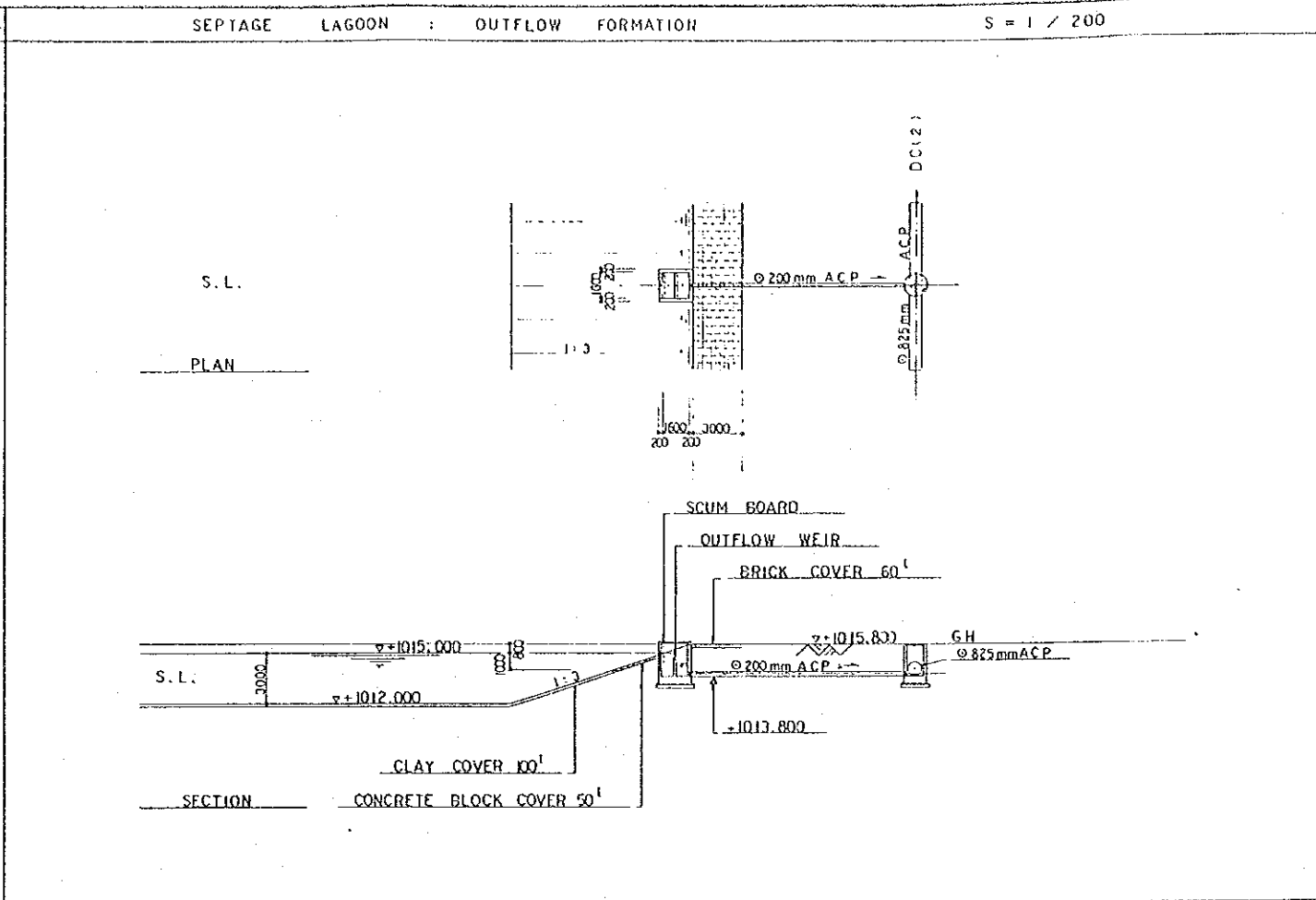
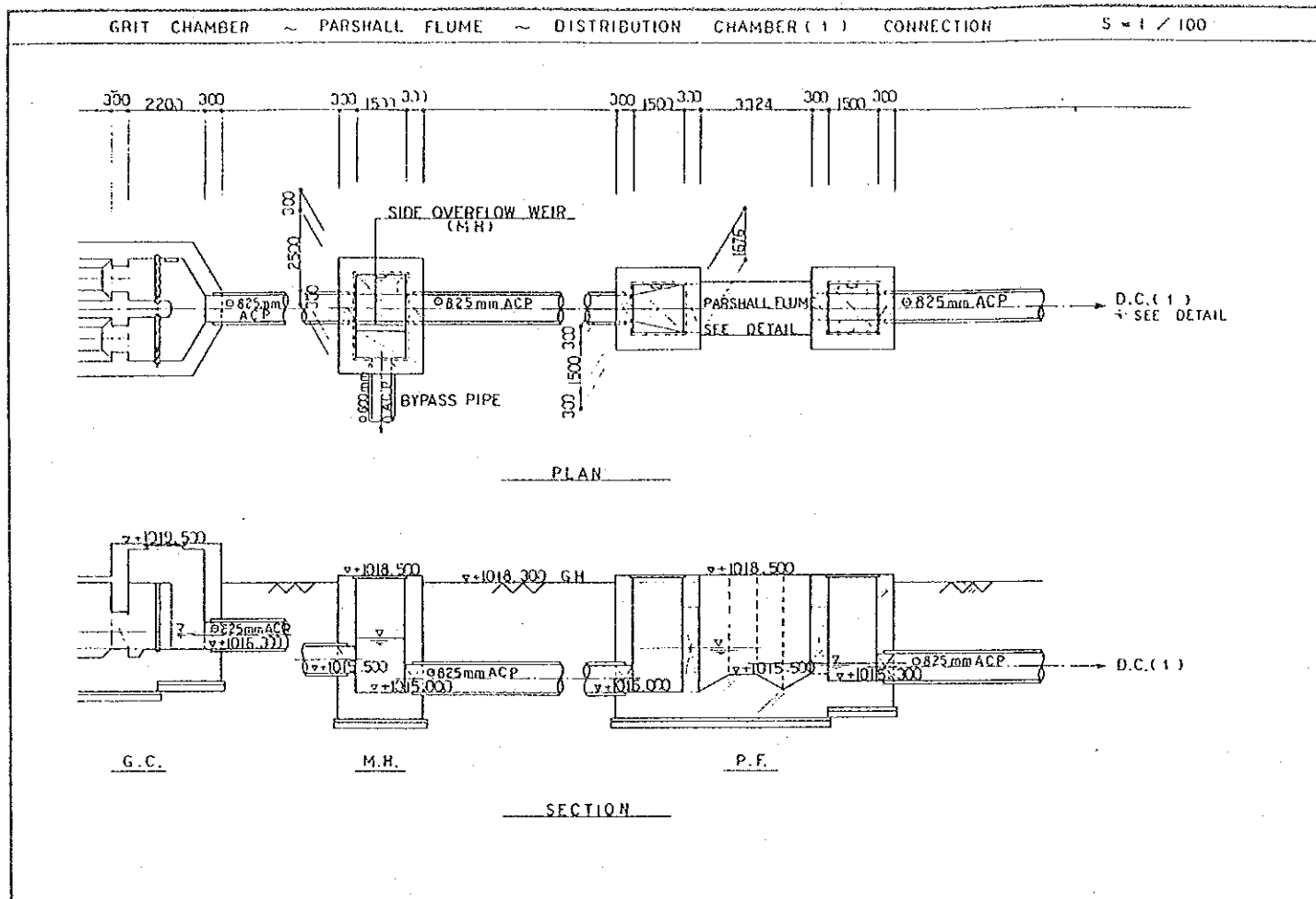


DISTRIBUTION CHAMBER ( 1 ) DETAIL

S = 1 / 50

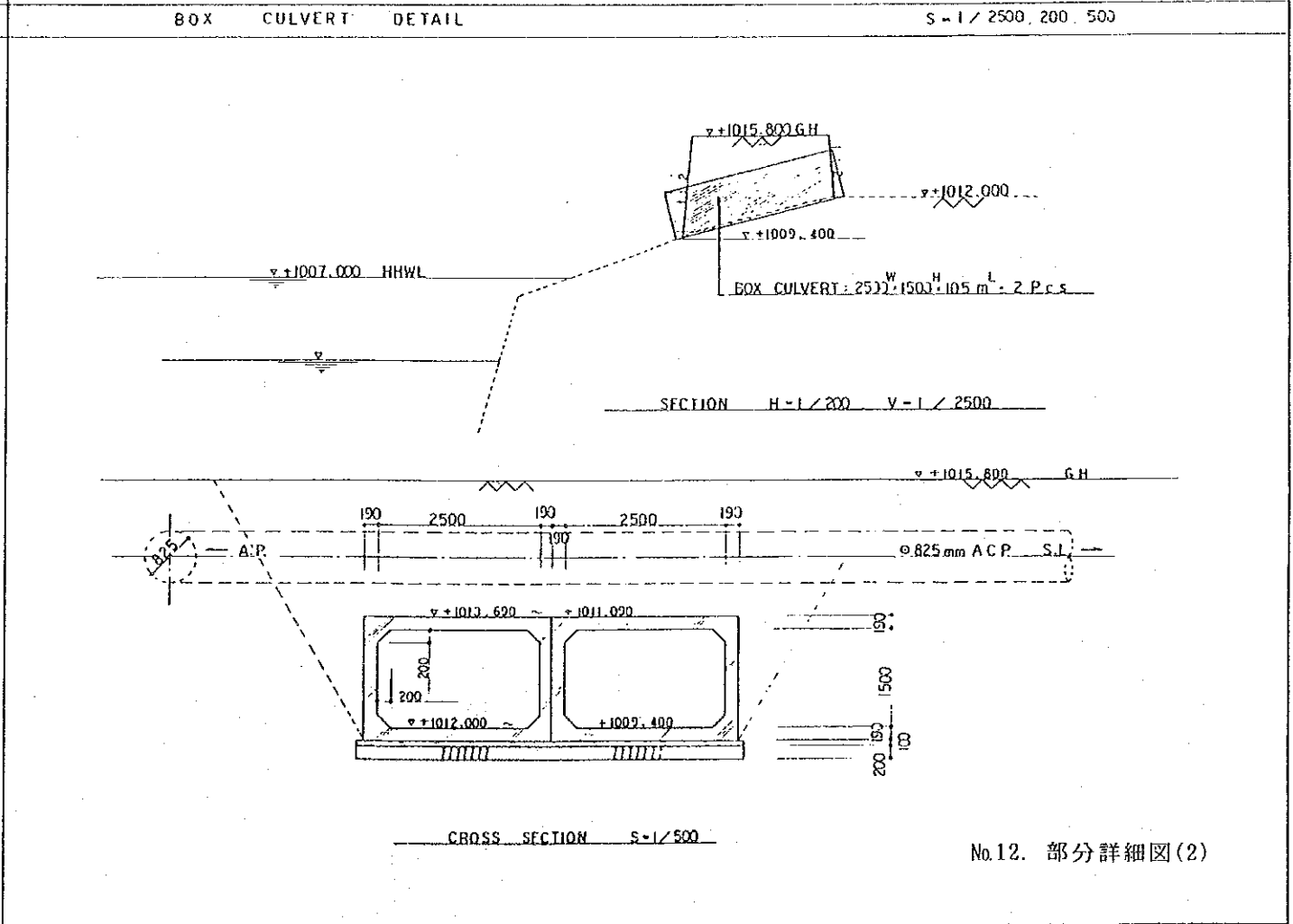
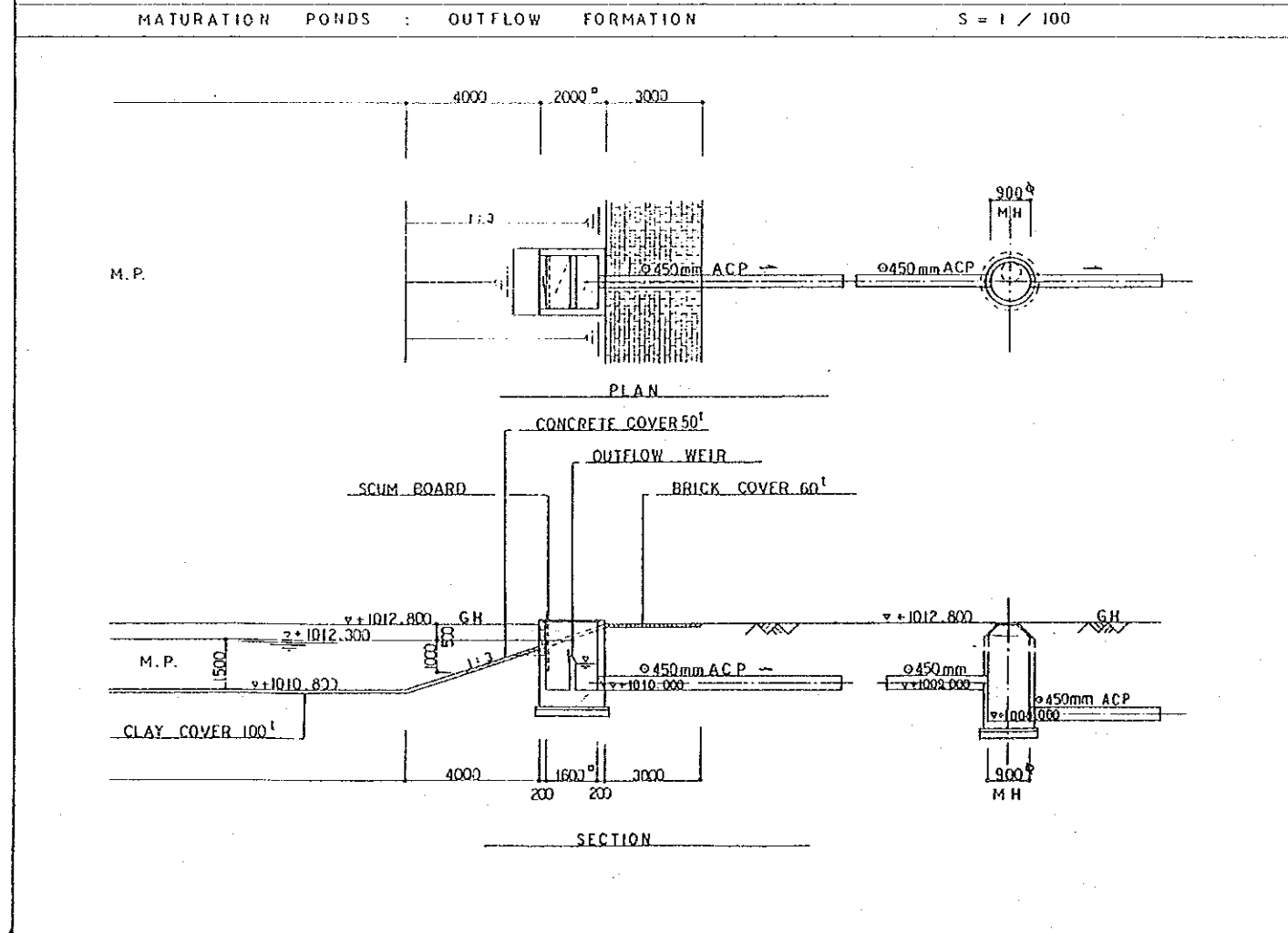
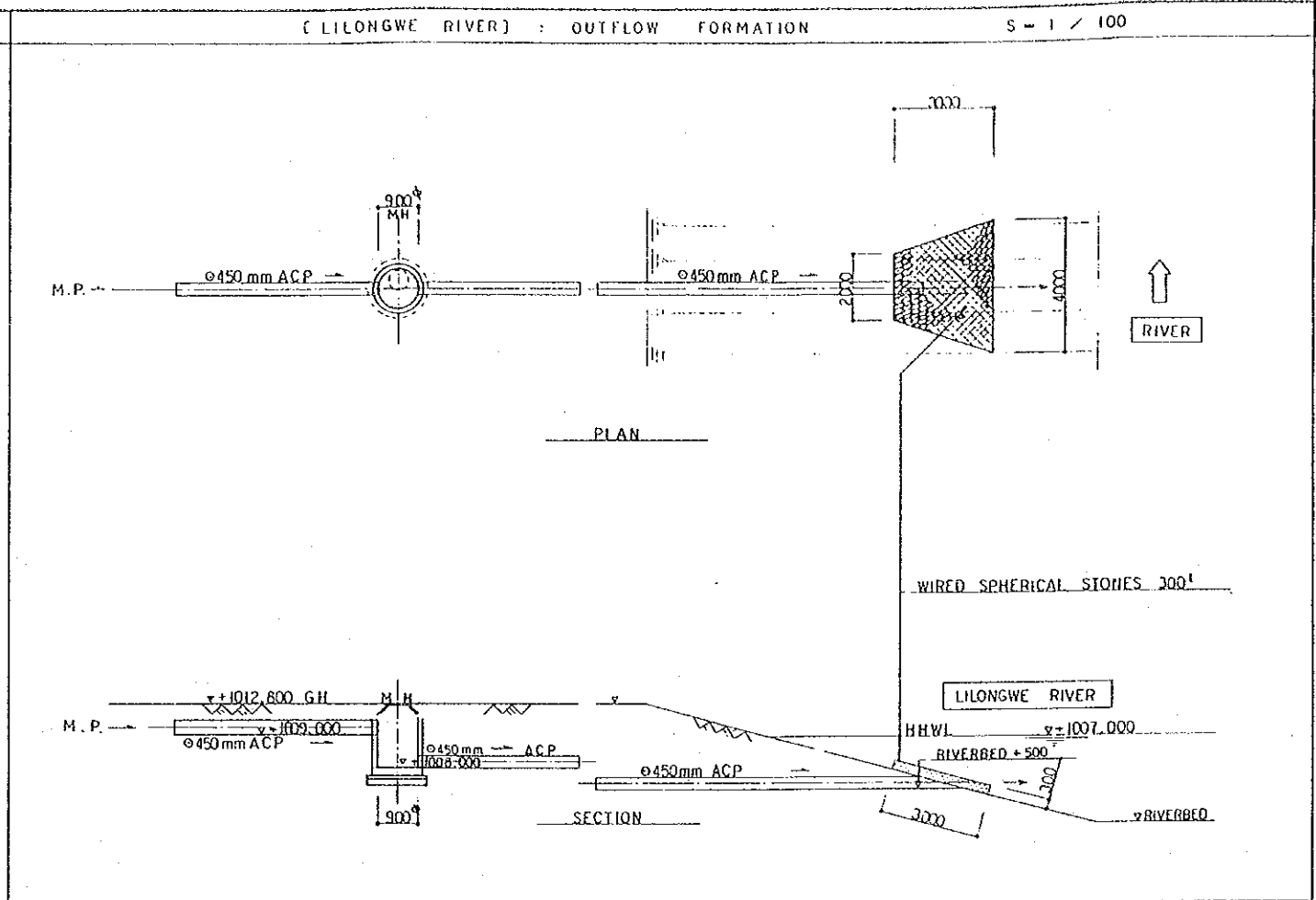
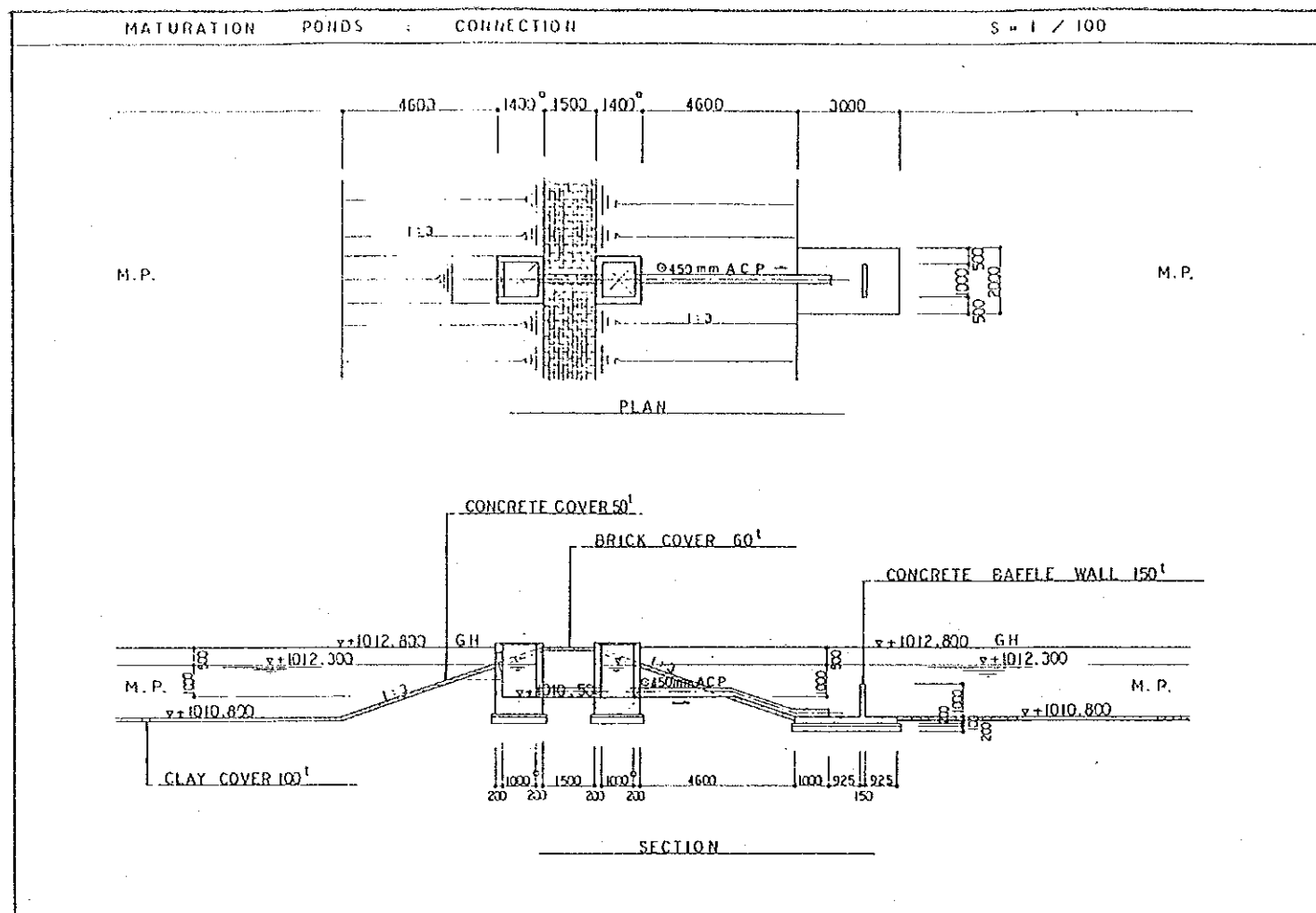


No.10. パーシャル フリューム ・ 分配水槽 (1) 、 (2) 詳細図



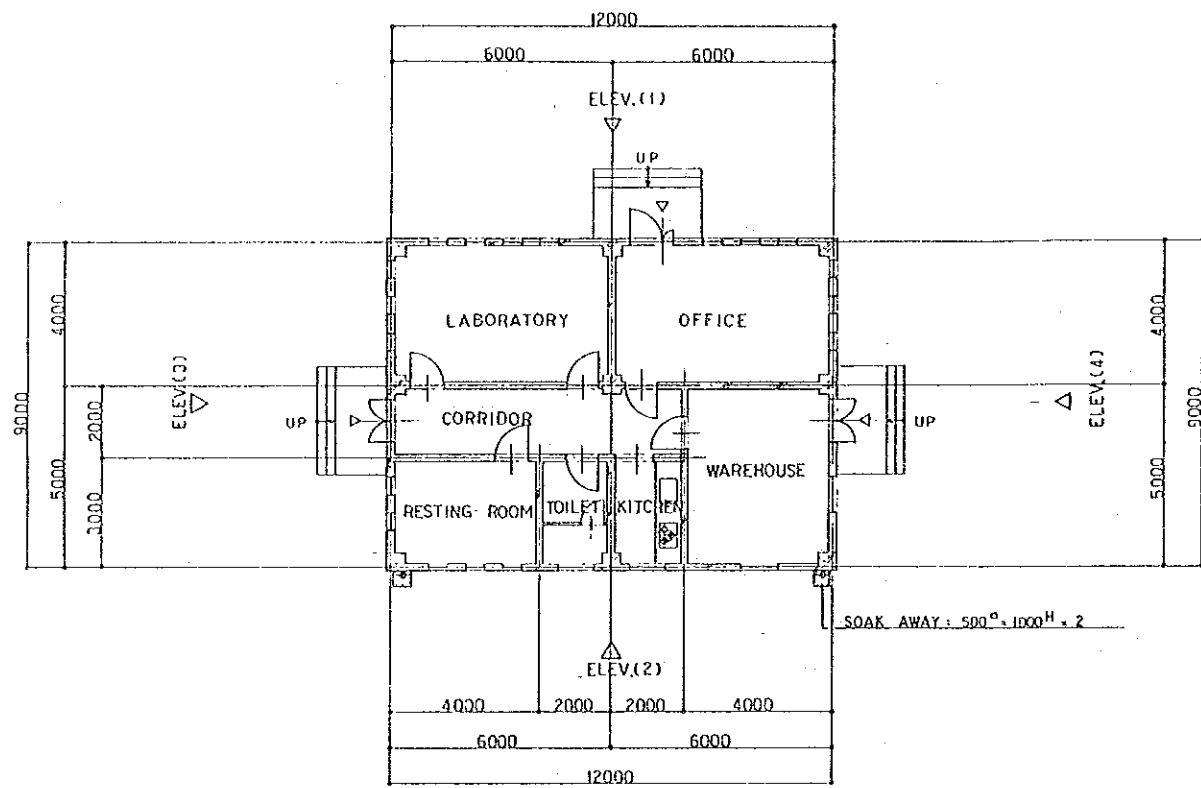
No.11. 部分詳細図(1)



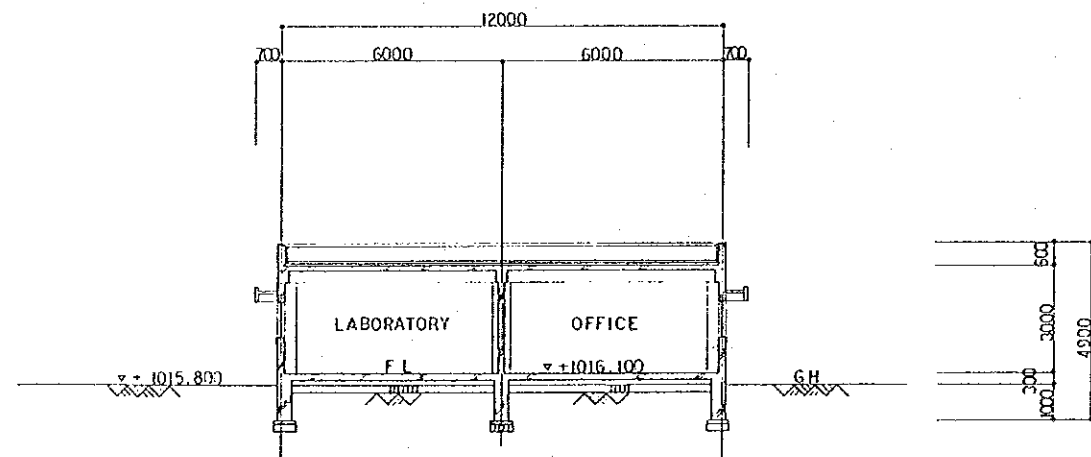


No.12. 部分詳細図(2)

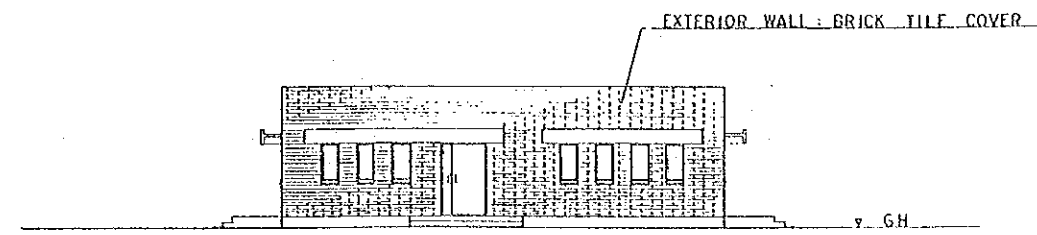




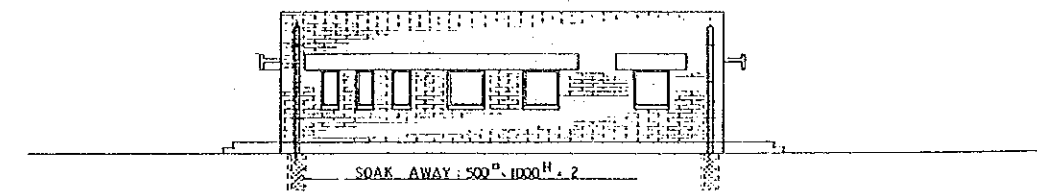
OFFICE PLAN S=1/100



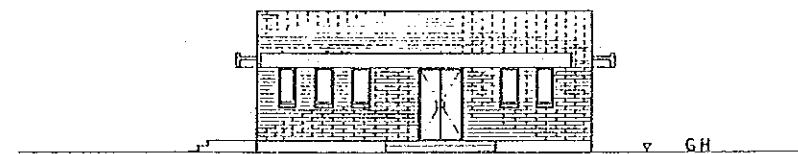
OFFICE SECTION S=1/100



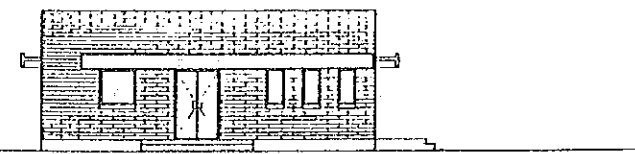
OFFICE ELEVATION (1) S=1/100



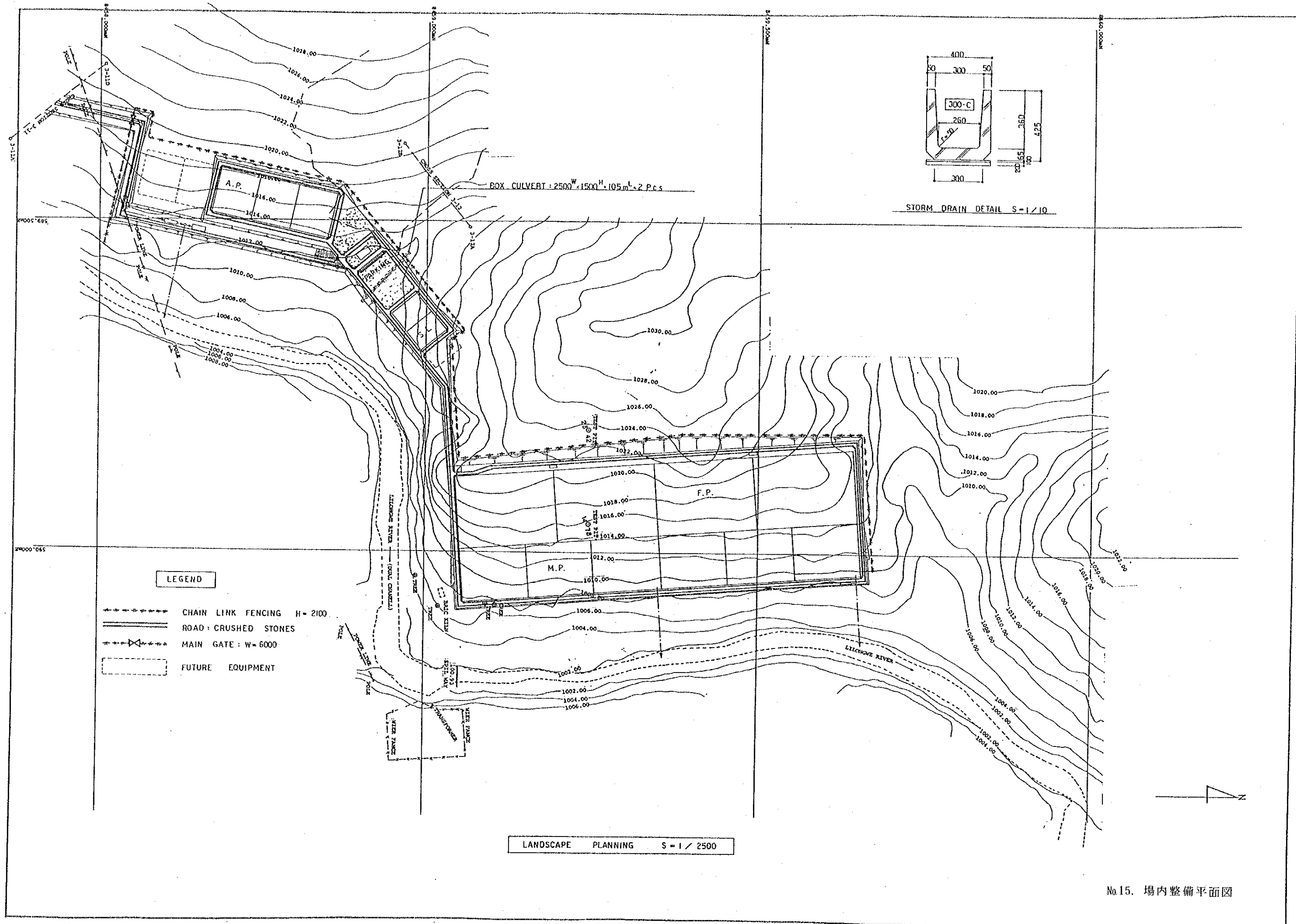
OFFICE ELEVATION (2) S=1/100



OFFICE ELEVATION (3) S=1/100



OFFICE ELEVATION (4) S=1/100

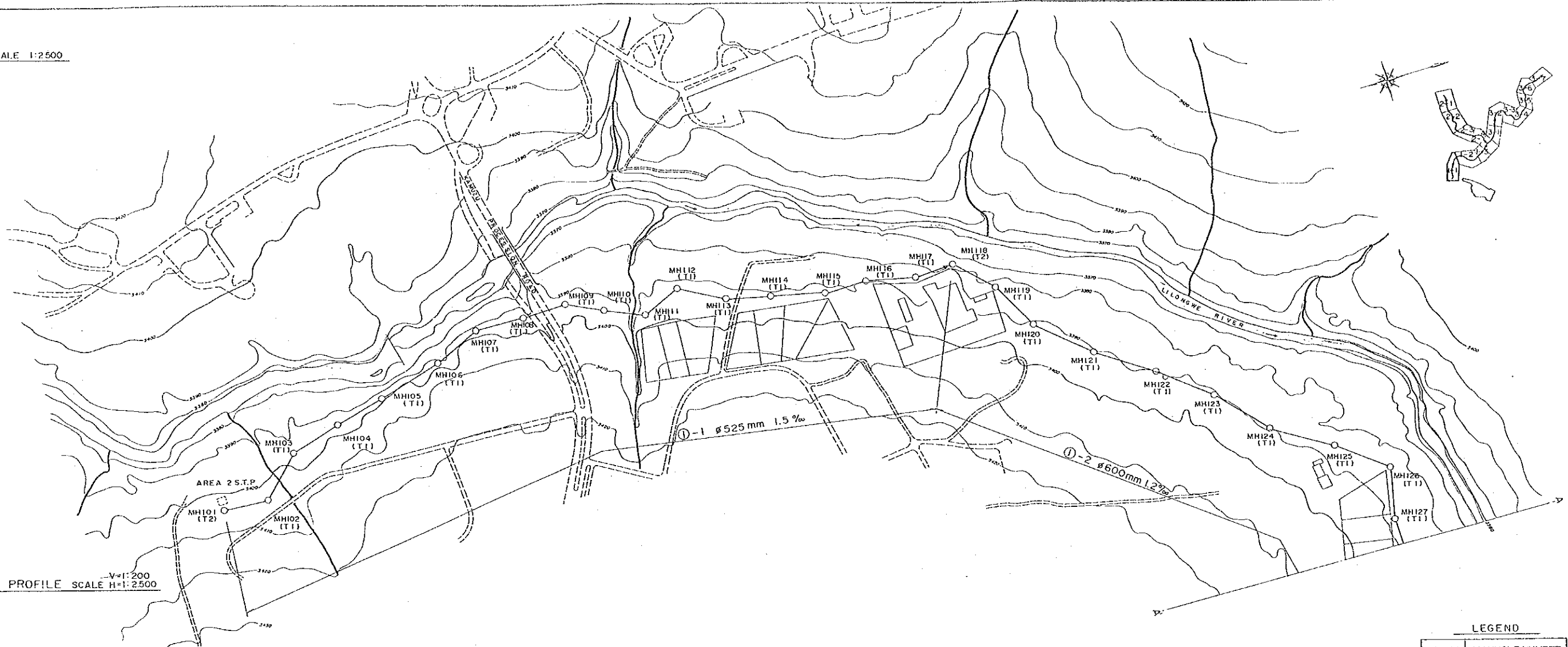


LEGEND

- \*\*\*\*\* CHAIN LINK FENCING H = 2100
- ==== ROAD : CRUSHED STONES
- X--- MAIN GATE : W = 6000
- FUTURE EQUIPMENT

No.15. 場内整備平面図

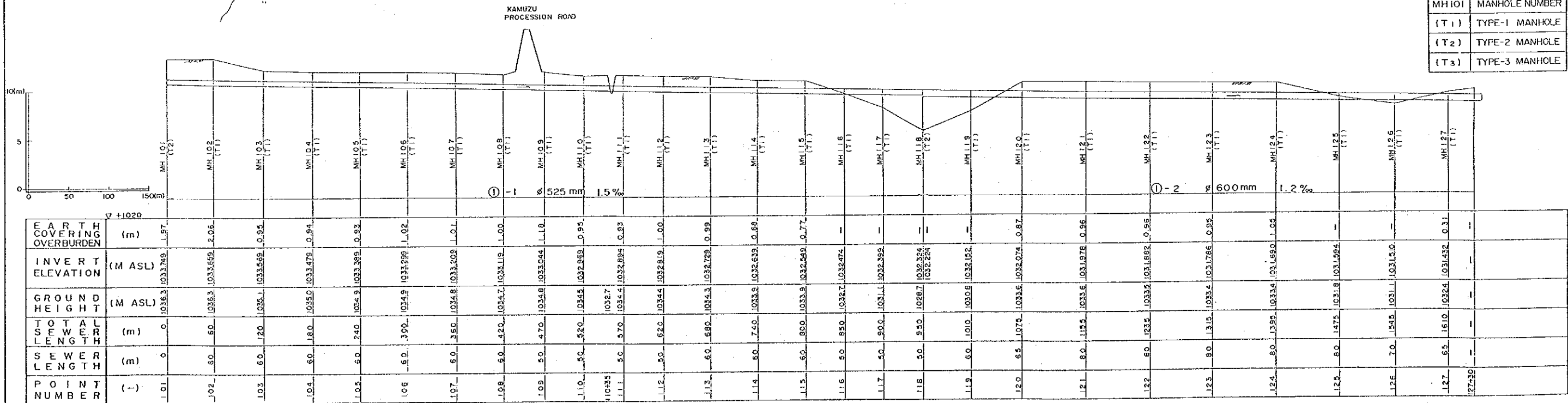
PLAN SCALE 1:2500



SEWER PROFILE SCALE V+1:200 H+1:2500

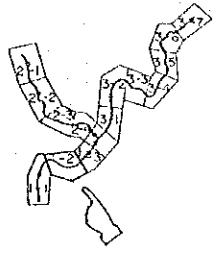
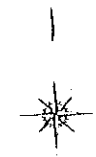
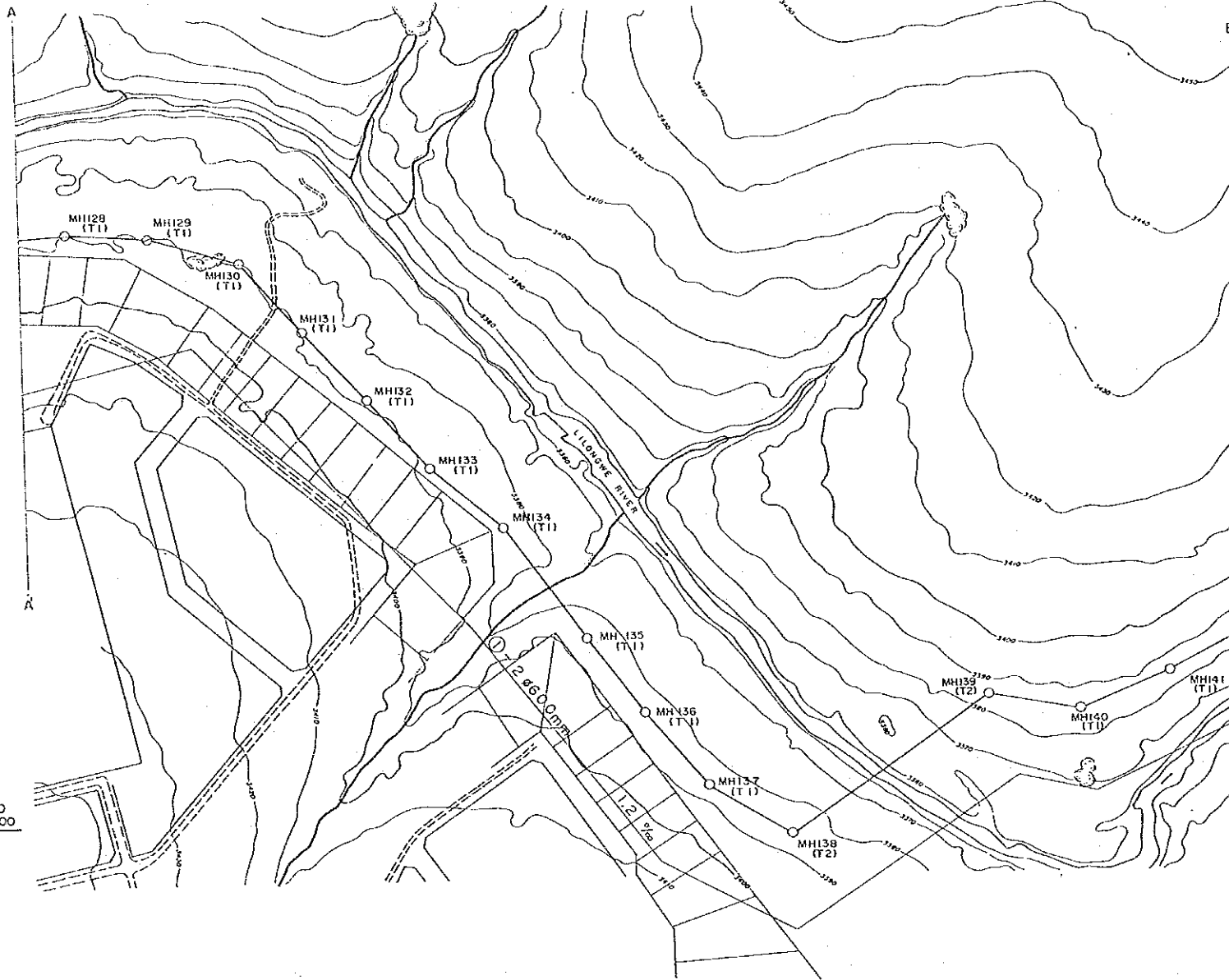
LEGEND

MH101	MANHOLE NUMBER
(T1)	TYPE-1 MANHOLE
(T2)	TYPE-2 MANHOLE
(T3)	TYPE-3 MANHOLE

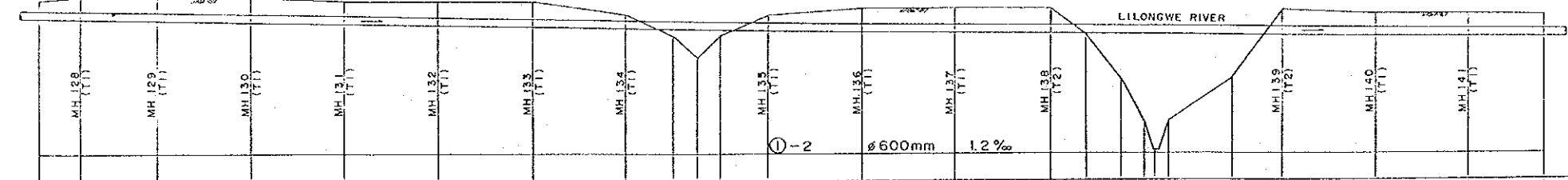
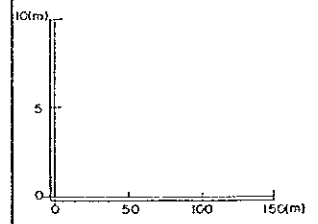


No.16 幹線管渠平縦断面図 No.1 幹線その1

PLAN SCALE 1:2500



V=1:200  
SEWER PROFILE SCALE H=1:2500



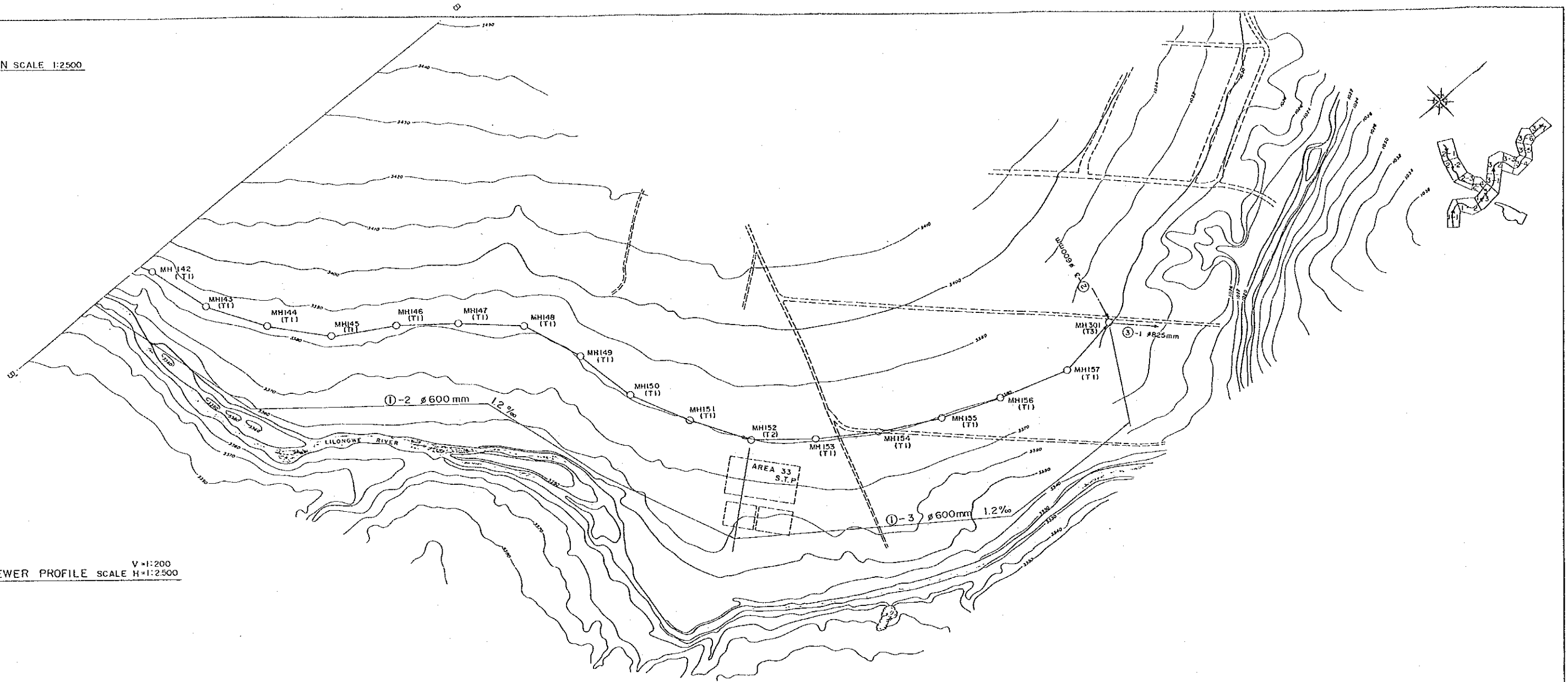
LEGEND

MH 101	MANHOLE NUMBER
(T1)	TYPE-1 MANHOLE
(T2)	TYPE-2 MANHOLE
(T3)	TYPE-3 MANHOLE

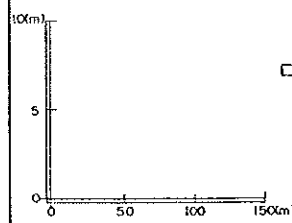
			MH 128 (T1)	MH 129 (T1)	MH 130 (T1)	MH 131 (T1)	MH 132 (T1)	MH 133 (T1)	MH 134 (T1)	MH 135 (T1)	MH 136 (T1)	MH 137 (T1)	MH 138 (T2)	MH 139 (T2)	MH 140 (T1)	MH 141 (T1)					
EARTH COVERING OVERBURDEN	(m)	1	0.99	0.96	0.96	0.96	0.95	1.05	0.24	0.39	0.98	0.98	0.99	1.02	1.01	1.01					
INVERT ELEVATION	(M ASL)	1	1031.354	1031.276	1031.180	1031.084	1030.988	1030.892	1030.796	1030.652	1030.556	1030.460	1030.364	1030.268	1030.172	1029.928					
GROUND HEIGHT	(M ASL)	1	1032.0	1032.9	1032.6	1032.7	1032.6	1032.6	1031.7	1030.2	1028.7	1028.2	1027.2	1027.2	1027.2	1027.2					
TOTAL SEWER LENGTH	(m)	1	67.4	174.0	182.0	190.0	198.0	206.0	214.0	226.0	234.0	242.0	250.0	270.0	276.0	286.0					
SEWER LENGTH	(m)	1	6.5	6.5	8.0	8.0	8.0	8.0	8.0	12.0	8.0	9.0	8.0	8.0	8.0	8.0					
POINT NUMBER	(-)		127.930	128	129	130	131	132	133	134	134+40	134+60	134+80	135	136	137	138	139	140	141	141+65

No.17 幹線管渠平縦断面図 No.1 幹線その2

PLAN SCALE 1:2500



SEWER PROFILE SCALE V=1:200  
H=1:2500



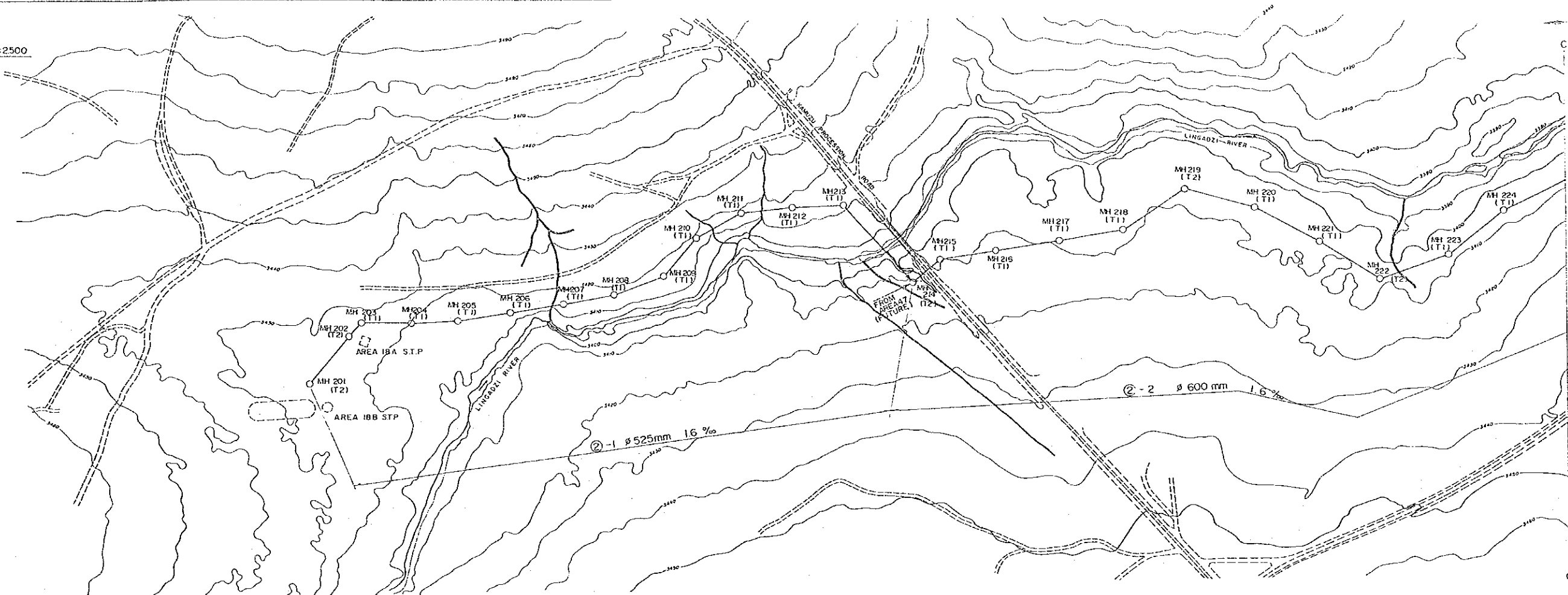
POINT NUMBER	SEWER LENGTH (m)	TOTAL SEWER LENGTH (m)	GROUND HEIGHT (M ASL)	INVERT ELEVATION (M ASL)	EARTH COVERING OVERBURDEN (m)
14.42	80	2940	1031.3	1028.885	1.00
14.43	80	3020	1031.4	1028.740	1.00
14.44	80	3100	1031.3	1028.644	1.00
14.45	80	3180	1031.2	1028.510	0.99
14.46	80	3260	1031.1	1028.452	0.99
14.47	80	3340	1031.0	1028.355	0.98
14.48	80	3420	1030.9	1028.260	0.98
14.49	80	3500	1030.8	1028.164	0.99
14.50	80	3580	1030.7	1028.058	0.97
14.51	80	3660	1030.6	1028.972	0.97
14.52	80	3740	1030.5	1028.875	0.96
14.53	80	3820	1030.4	1028.760	0.96
14.54	80	3900	1030.3	1028.684	0.96
14.55	80	3980	1030.3	1028.588	1.05
14.56	80	4060	1030.2	1028.492	1.05
14.57	80	4140	1030.1	1028.396	1.04
30.1	80	4220	1030.2	1028.300	1.24

LEGEND

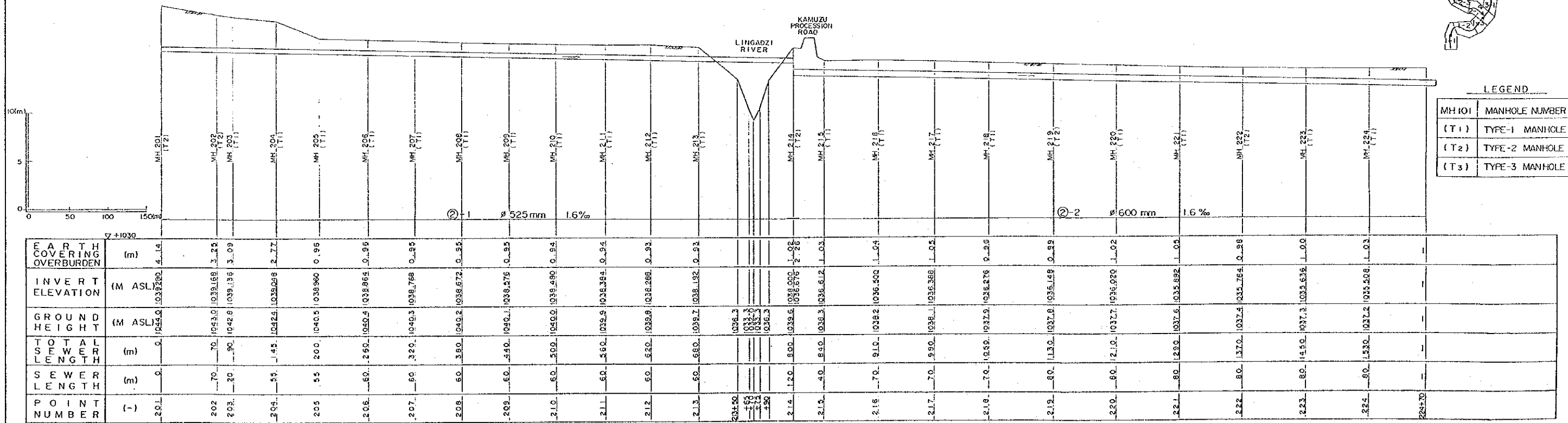
MH101	MANHOLE NUMBER
(T1)	TYPE-1 MANHOLE
(T2)	TYPE-2 MANHOLE
(T3)	TYPE-3 MANHOLE

No.18 幹線管渠平縦断面図 No.1 幹線その3

PLAN SCALE 1:2500



SEWER PROFILE SCALE V=1:200 H=1:2500



LEGEND

MH 101	MANHOLE NUMBER
(T1)	TYPE-1 MANHOLE
(T2)	TYPE-2 MANHOLE
(T3)	TYPE-3 MANHOLE

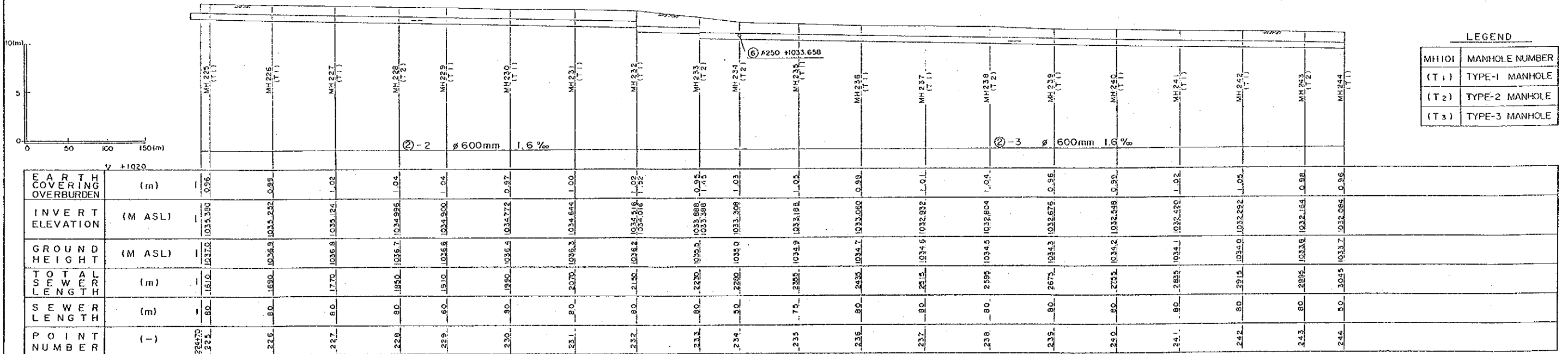
No.19 幹線管渠平縦断面図 No.2 幹線その1



PLAN SCALE 1:2500



SEWER PROFILE SCALE V=1:200 H=1:2500

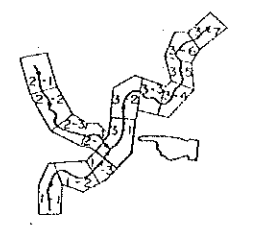
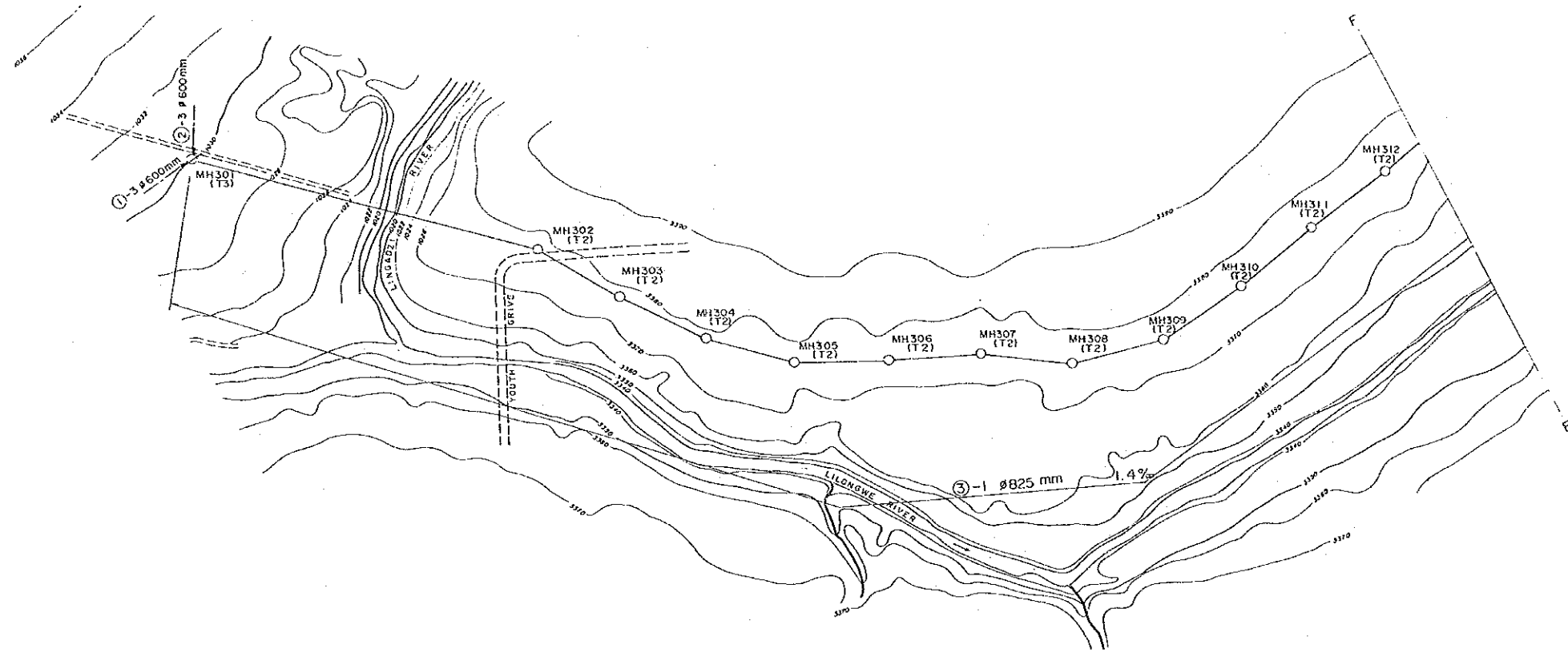


No.20 幹線管渠平縦断面図 No.2 幹線その2

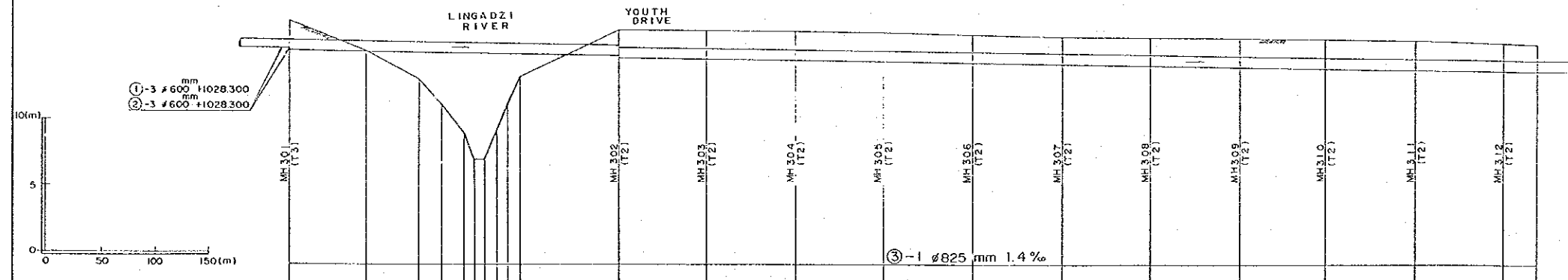




PLAN SCALE 1:2500



V=1:200  
SEWER PROFILE SCALE H=1:2500



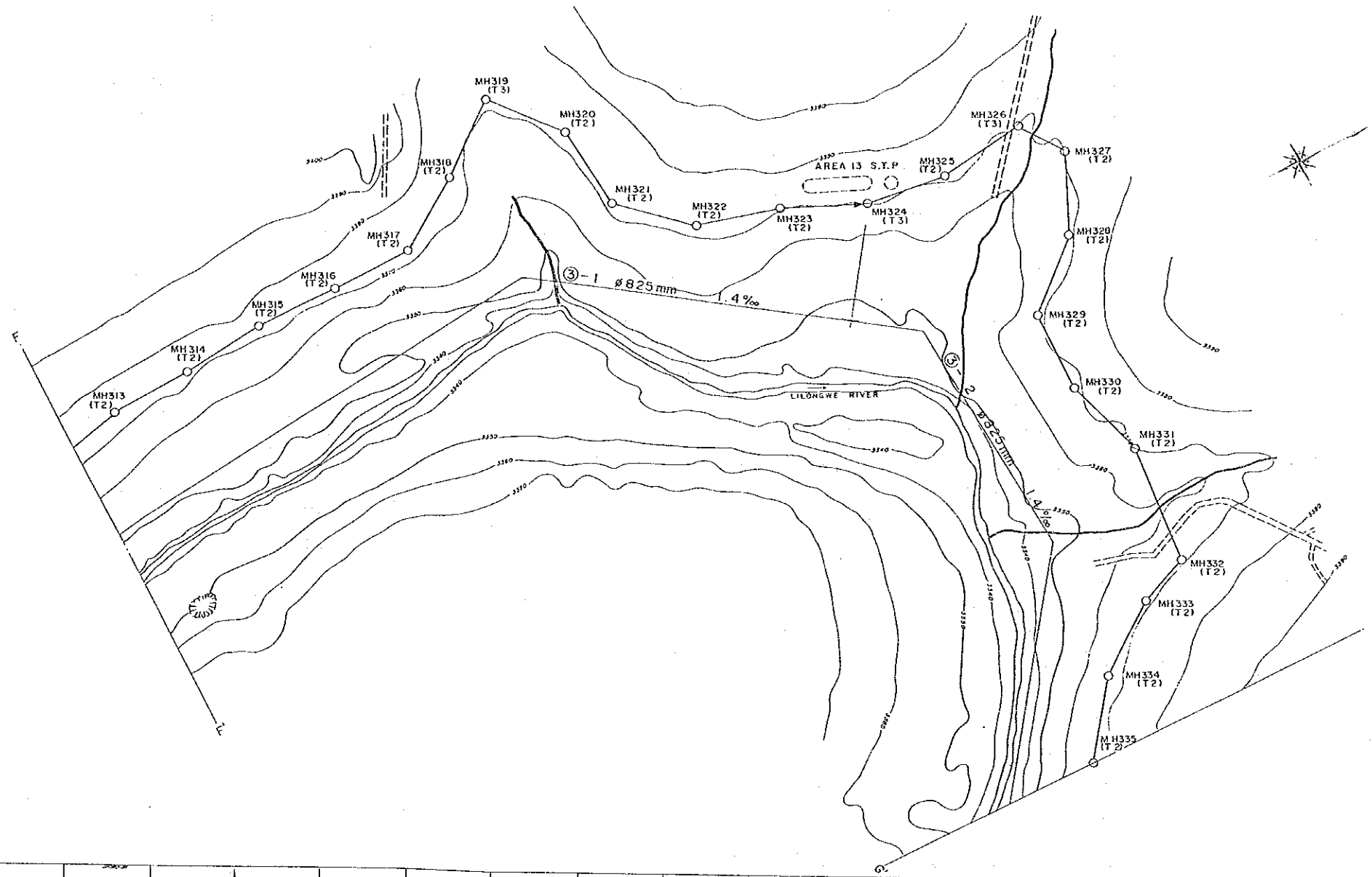
LEGEND

MH101	MANHOLE NUMBER
(T1)	TYPE-1 MANHOLE
(T2)	TYPE-2 MANHOLE
(T3)	TYPE-3 MANHOLE

POINT NUMBER	(-)	3.01	3.10	3.11	3.12	3.13
EARTH COVERING OVERBURDEN (m)		1.19	1.21	1.22	1.23	1.13
INVERT ELEVATION (M ASL)		1028.100	1027.580	1026.684	1025.572	1025.460
GROUND HEIGHT (M ASL)		1030.2	1028.0	1026.0	1025.7	1025.5
TOTAL SEWER LENGTH (m)		0	30.0	80	80	100
SEWER LENGTH (m)		0	30.0	80	80	100

No.23 幹線管渠平縦断面図 No.3 幹線その1

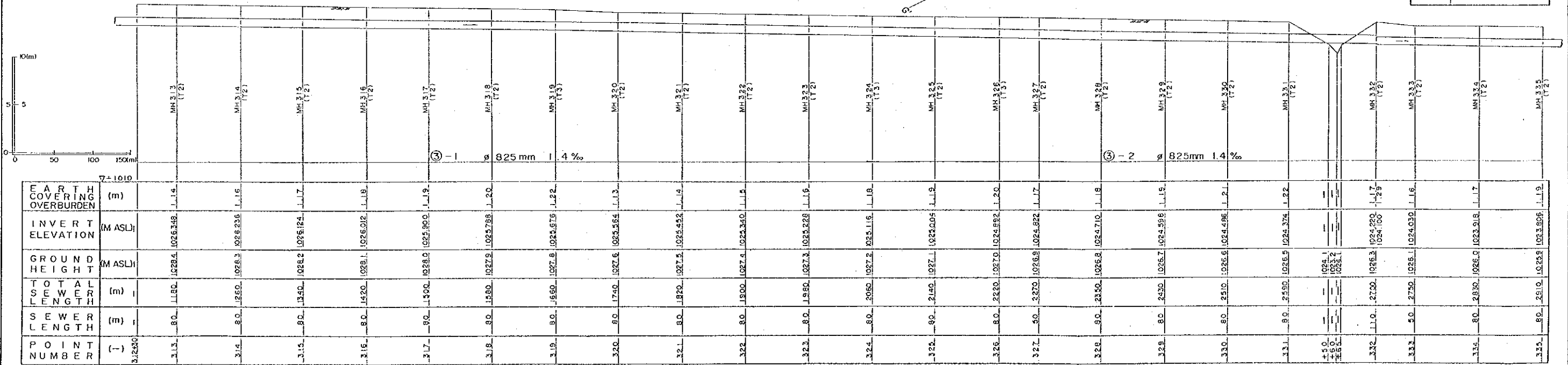
PLAN SCALE 1:2500



SEWER PROFILE SCALE V=1:200 H=1:2500

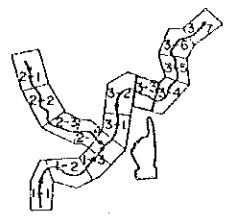
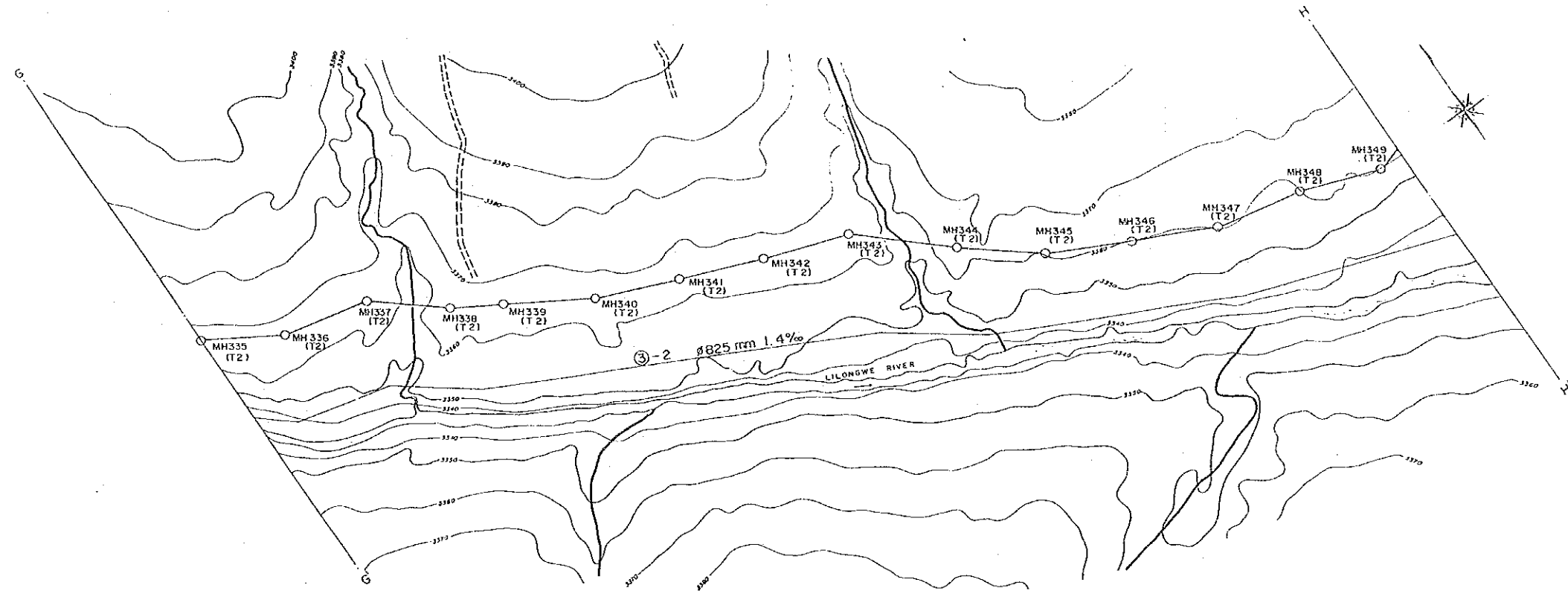
LEGEND

MH 101	MANHOLE NUMBER
(T1)	TYPE-1 MANHOLE
(T2)	TYPE-2 MANHOLE
(T3)	TYPE-3 MANHOLE

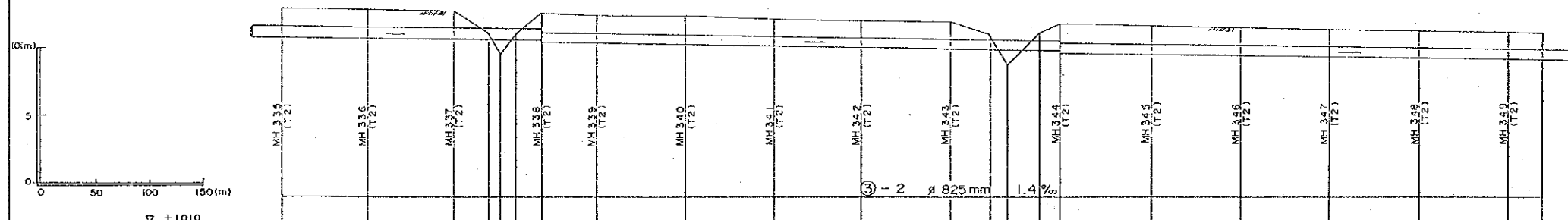


No 24 幹線管渠平縦断面図 No 3 幹線その 2

PLAN SCALE 1:2,500



SEWER PROFILE SCALE V=1:200 H=1:2500

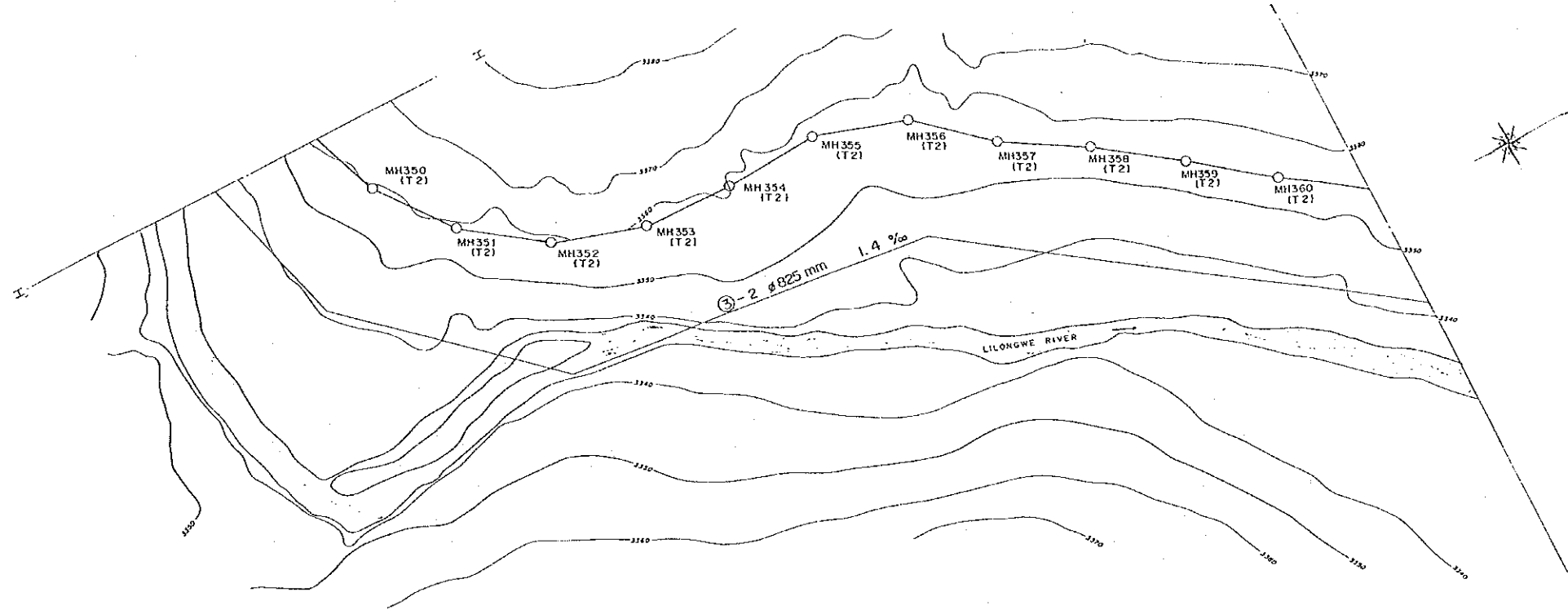


LEGEND

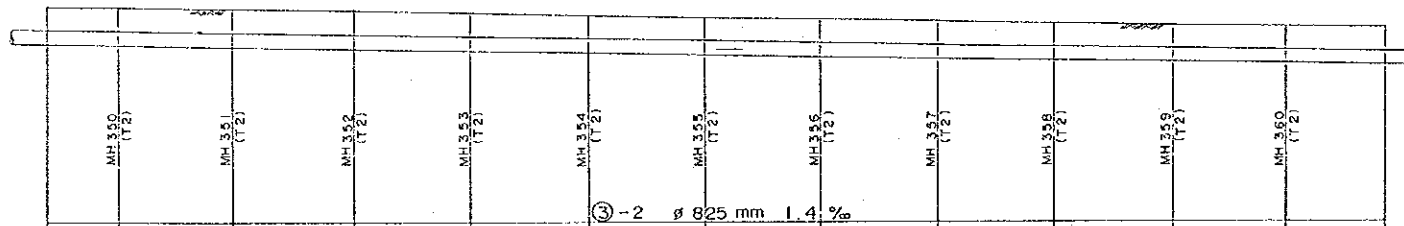
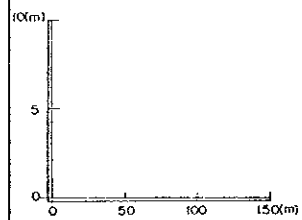
MH101	MANHOLE NUMBER
(T1)	TYPE-1 MANHOLE
(T2)	TYPE-2 MANHOLE
(T3)	TYPE-3 MANHOLE

POINT NUMBER	SEWER LENGTH (m)	TOTAL SEWER LENGTH (m)	GROUND HEIGHT (M ASL)	INVERT ELEVATION (M ASL)	EARTH COVERING OVERBURDEN (m)
335	0	0	1023.808	1023.808	1.19
336	80	80	1023.894	1023.894	1.20
337	80	160	1023.982	1023.982	1.21
338	80	240	1024.070	1024.070	1.22
339	50	290	1024.158	1024.158	1.23
340	80	370	1024.246	1024.246	1.24
341	80	450	1024.334	1024.334	1.25
342	80	530	1024.422	1024.422	1.26
343	80	610	1024.510	1024.510	1.27
344	100	710	1024.598	1024.598	1.28
345	80	790	1024.686	1024.686	1.29
346	80	870	1024.774	1024.774	1.30
347	80	950	1024.862	1024.862	1.31
348	80	1030	1024.950	1024.950	1.32
349	80	1110	1025.038	1025.038	1.33
349A	0	1110	1025.126	1025.126	1.34

PLAN SCALE 1:2500



SEWER PROFILE SCALE V=1:200 H=1:2500

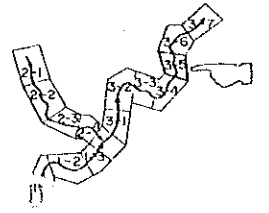
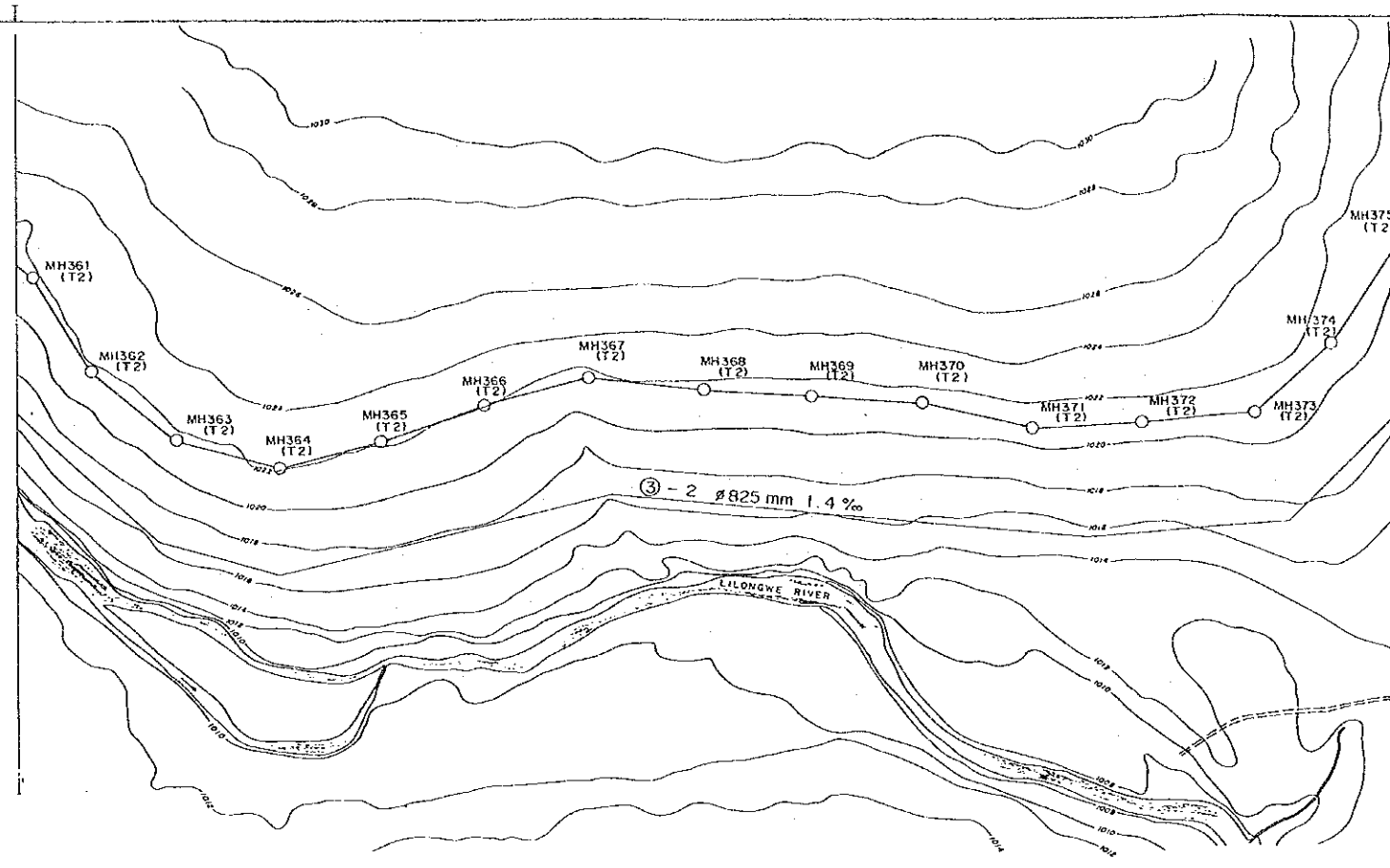


LEGEND

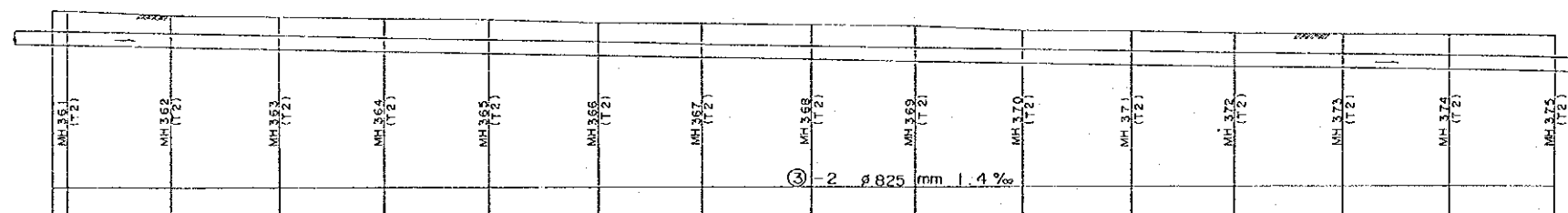
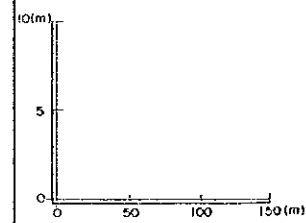
MH 101	MANHOLE NUMBER
(T1)	TYPE-1 MANHOLE
(T2)	TYPE-2 MANHOLE
(T3)	TYPE-3 MANHOLE

		MH 350 (T2)	MH 351 (T2)	MH 352 (T2)	MH 353 (T2)	MH 354 (T2)	MH 355 (T2)	MH 356 (T2)	MH 357 (T2)	MH 358 (T2)	MH 359 (T2)	MH 360 (T2)
		3 - 2 ø 825 mm 1.4 ‰										
EARTH COVERING OVERBURDEN (m)		1.10	1.19	1.21	1.22	1.13	1.14	1.15	1.17	1.18	1.19	1.20
INVERT ELEVATION (M ASL)		1021.910	1021.798	1021.686	1021.574	1021.462	1021.350	1021.238	1021.126	1021.014	1020.902	1020.790
GROUND HEIGHT (M ASL)		1023.0	1023.9	1023.8	1023.7	1023.5	1023.4	1023.3	1023.2	1023.1	1023.0	1022.9
TOTAL SEWER LENGTH (m)		4.00	4.180	4.260	4.340	4.420	4.500	4.580	4.660	4.740	4.820	4.900
SEWER LENGTH (m)		8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
POINT NUMBER		349.30	350	351	352	353	354	355	356	357	358	359

PLAN SCALE 1:2500



SEWER PROFILE SCALE V=1:200 H=1:2500



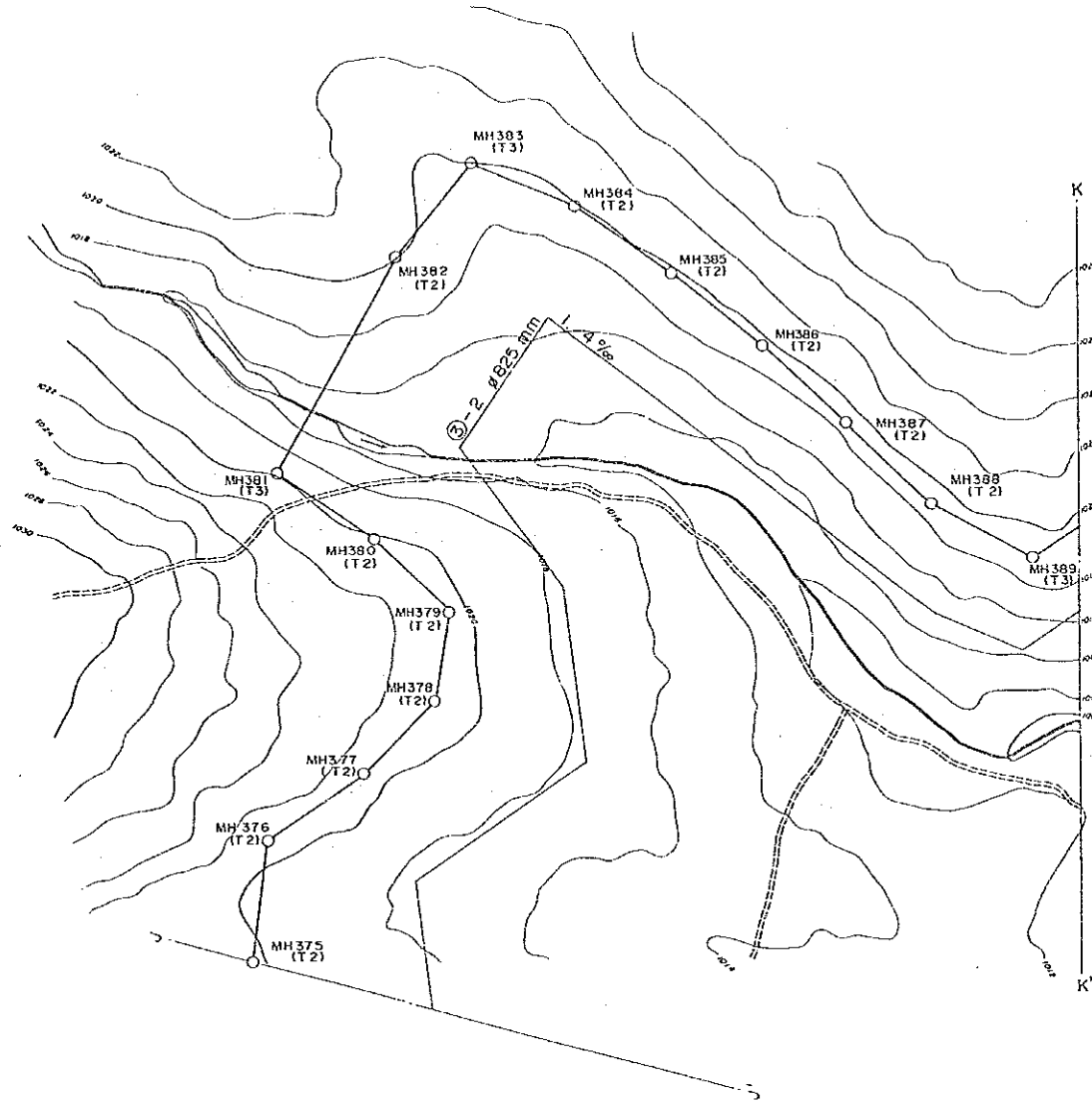
LEGEND

MH101	MANHOLE NUMBER
(T1)	TYPE-1 MANHOLE
(T2)	TYPE-2 MANHOLE
(T3)	TYPE-3 MANHOLE

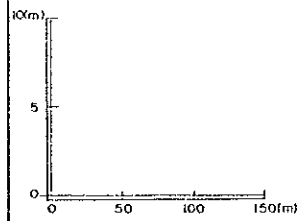
		MH 361 (T2)	MH 362 (T2)	MH 363 (T2)	MH 364 (T2)	MH 365 (T2)	MH 366 (T2)	MH 367 (T2)	MH 368 (T2)	MH 369 (T2)	MH 370 (T2)	MH 371 (T2)	MH 372 (T2)	MH 373 (T2)	MH 374 (T2)	MH 375 (T2)
EARTH COVERING OVERBURDEN (m)	1.21	1.13	1.14	1.15	1.16	1.17	1.19	1.20	1.21	1.12	1.13	1.15	1.16	1.17	1.18	
INVERT ELEVATION (M ASL)	1020.678	1020.566	1020.454	1020.342	1020.230	1020.118	1020.006	1019.894	1019.782	1019.670	1019.558	1019.446	1019.334	1019.222	1019.110	
GROUND HEIGHT (M ASL)	1022.6	1022.6	1022.5	1022.4	1022.3	1022.2	1022.1	1022.0	1021.9	1021.7	1021.6	1021.5	1021.4	1021.3	1021.2	
TOTAL SEWER LENGTH (m)	4980	3060	5140	5220	3300	3380	5460	5540	5620	5700	5780	5860	5940	6020	6100	
SEWER LENGTH (m)	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	
POINT NUMBER (-)	360.70	362	363	364	365	366	367	368	369	370	371	372	373	374	375	



PLAN SCALE 1:2500



V=1:200  
SEWER PROFILE SCALE H=1:2500



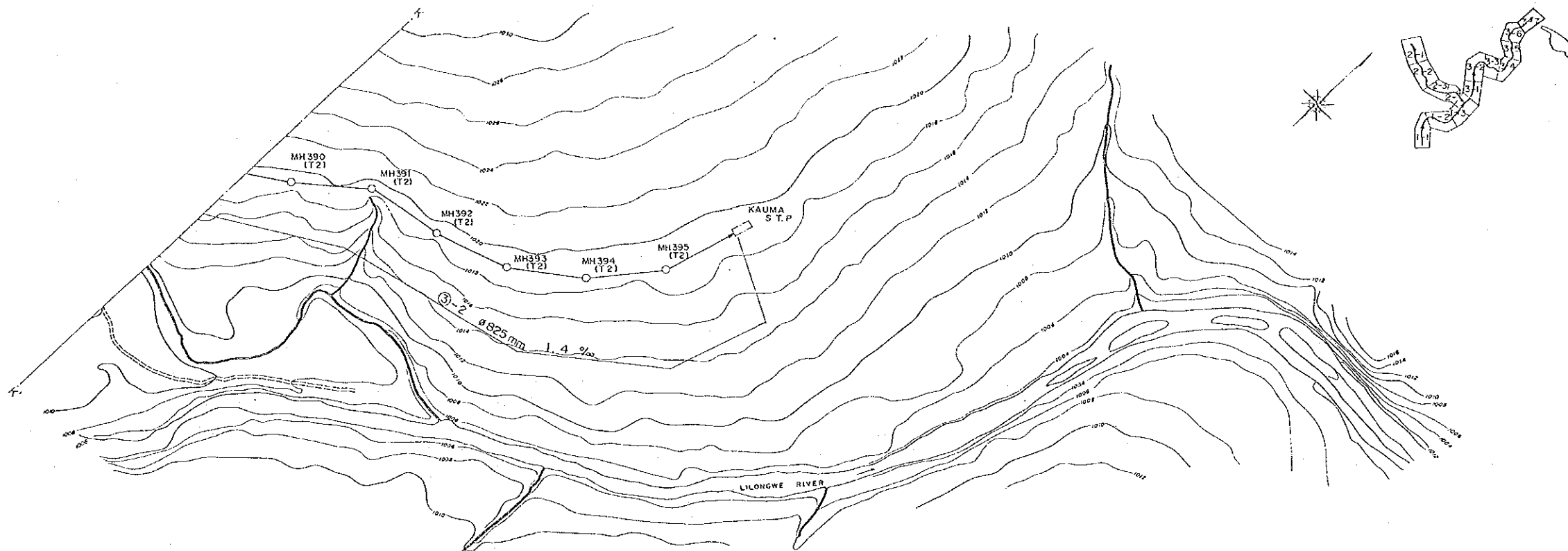
		MH 375 (T2)	MH 376 (T2)	MH 377 (T2)	MH 378 (T2)	MH 379 (T2)	MH 380 (T2)	MH 381 (T3)	MH 382 (T2)	MH 383 (T2)	MH 384 (T2)	MH 385 (T2)	MH 386 (T2)	MH 387 (T2)	MH 388 (T2)	MH 389 (T3)
EARTH COVERING OVERBURDEN (m)		1.18	1.19	1.21	1.22	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.23
INVERT ELEVATION (M ASL)		1018.110	1018.998	1018.888	1018.774	1018.662	1018.550	1018.438	1018.326	1018.214	1018.102	1017.990	1017.878	1017.766	1017.654	1017.542
GROUND HEIGHT (M ASL)		1021.2	1021.1	1021.0	1020.9	1020.7	1020.6	1020.5	1020.4	1020.3	1020.2	1020.1	1020.0	1019.9	1019.8	1019.7
TOTAL SEWER LENGTH (m)		6100	6180	6260	6340	6420	6500	6580	6660	6740	6820	6900	6980	7060	7140	7220
SEWER LENGTH (m)		80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
POINT NUMBER (-)		375	376	377	378	379	380	381	382	383	384	385	386	387	388	389

LEGEND

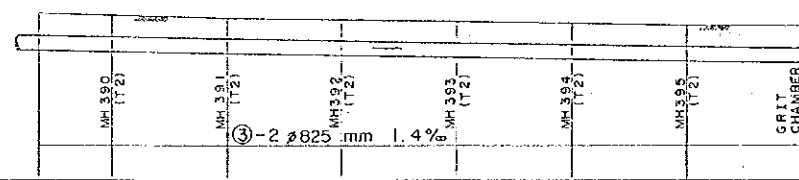
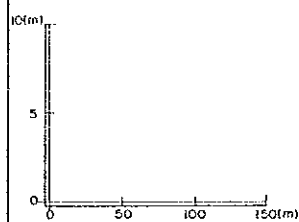
MH101	MANHOLE NUMBER
(T1)	TYPE-1 MANHOLE
(T2)	TYPE-2 MANHOLE
(T3)	TYPE-3 MANHOLE

No.28 幹線管渠平縦断面図 No.3 幹線その6

PLAN SCALE 1:2500



SEWER PROFILE SCALE V=1:200 H=1:2500



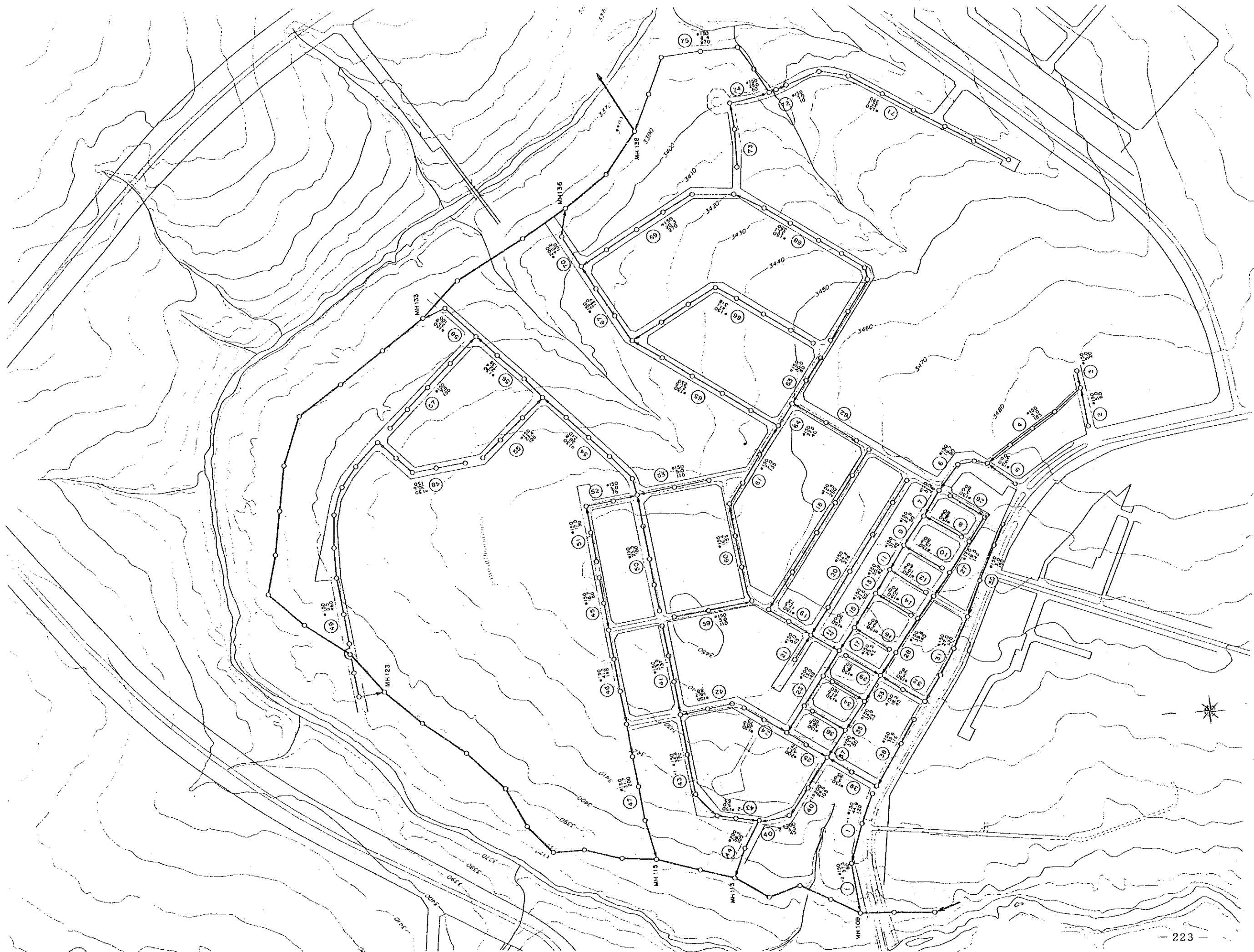
LEGEND

MH 101	MANHOLE NUMBER
(T1)	TYPE-1 MANHOLE
(T2)	TYPE-2 MANHOLE
(T3)	TYPE-3 MANHOLE

EARTH COVERING OVERBURDEN	(m)	1.12	1.13	1.14	1.16	1.17	1.18	1.19	
INVERT ELEVATION	(M ASL)	1017.172	1017.060	1016.946	1016.835	1016.725	1016.612	1016.500	
GROUND HEIGHT	(M ASL)	1018.3	1018.1	1018.0	1018.9	1018.8	1018.7	1018.6	
TOTAL SEWER LENGTH	(m)	7350	7470	7550	7590	7710	7790	7870	
SEWER LENGTH	(m)	80	80	80	80	80	80	80	
POINT NUMBER	(-)	389	391	392	393	394	395	KAUMA S.T.P.	

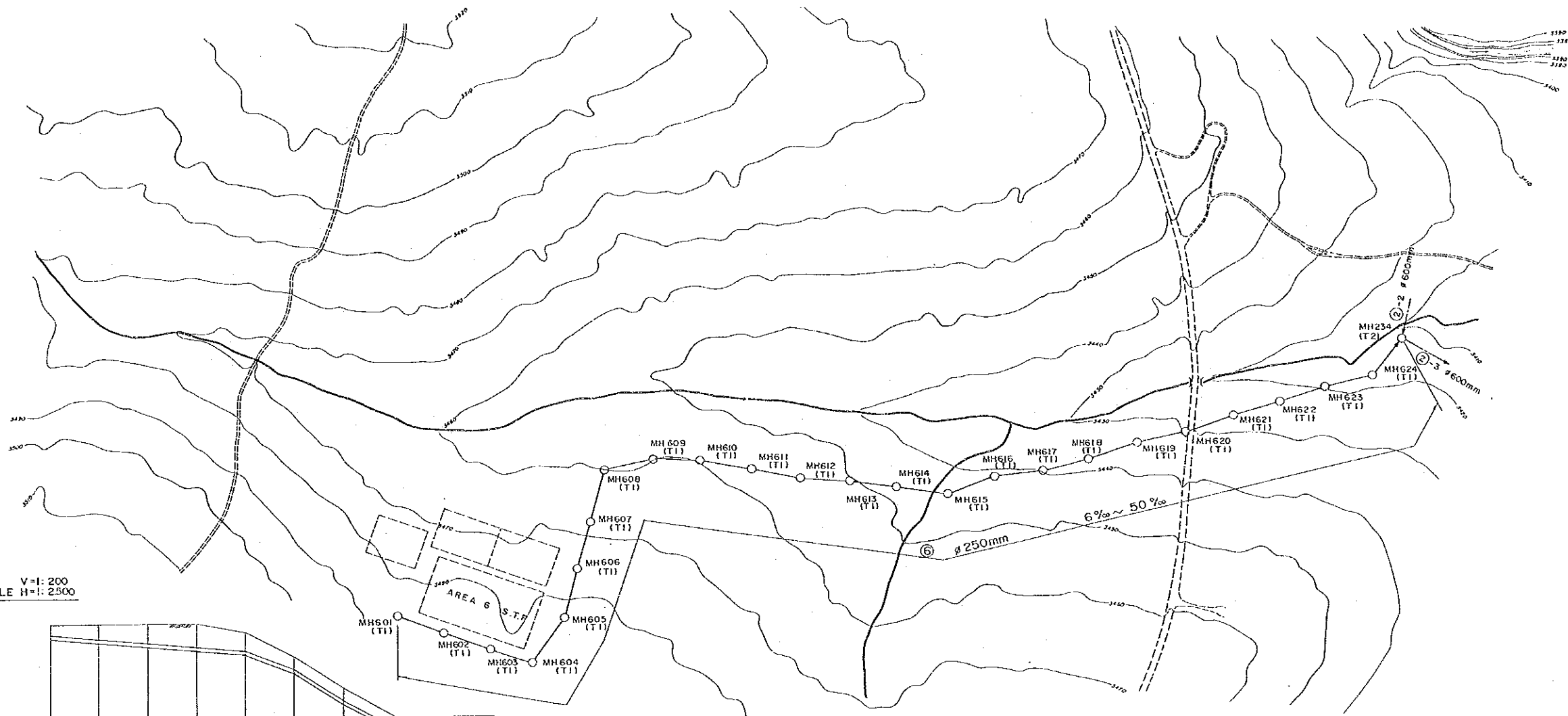


No.80 エリア1 施設平面図 S=1:5000

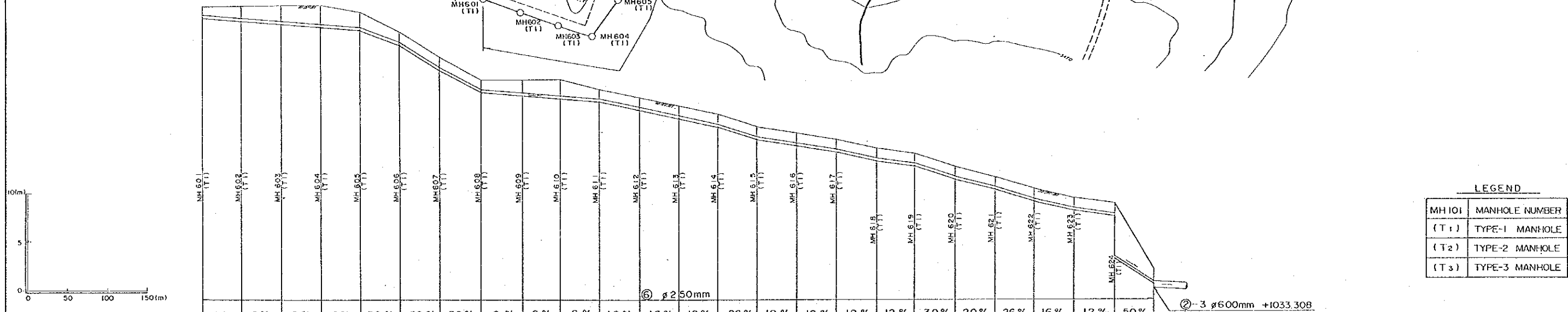


No.31 エリア2 施設平面図 S=1:5000

PLAN SCALE 1:2500



SEWER PROFILE SCALE V=1:200 H=1:2500



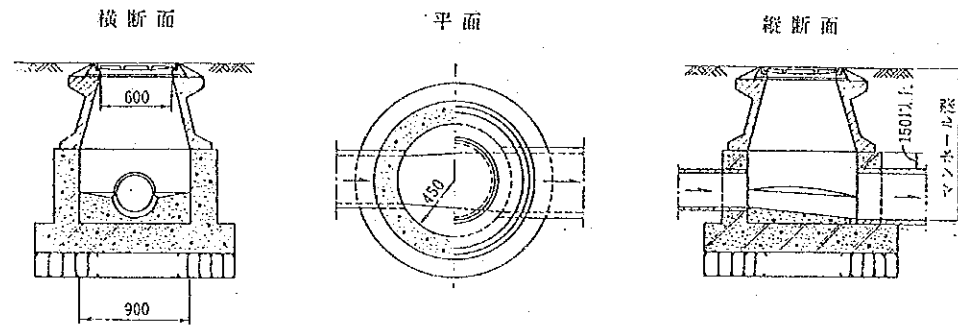
LEGEND

MH 101	MANHOLE NUMBER
(T1)	TYPE-1 MANHOLE
(T2)	TYPE-2 MANHOLE
(T3)	TYPE-3 MANHOLE

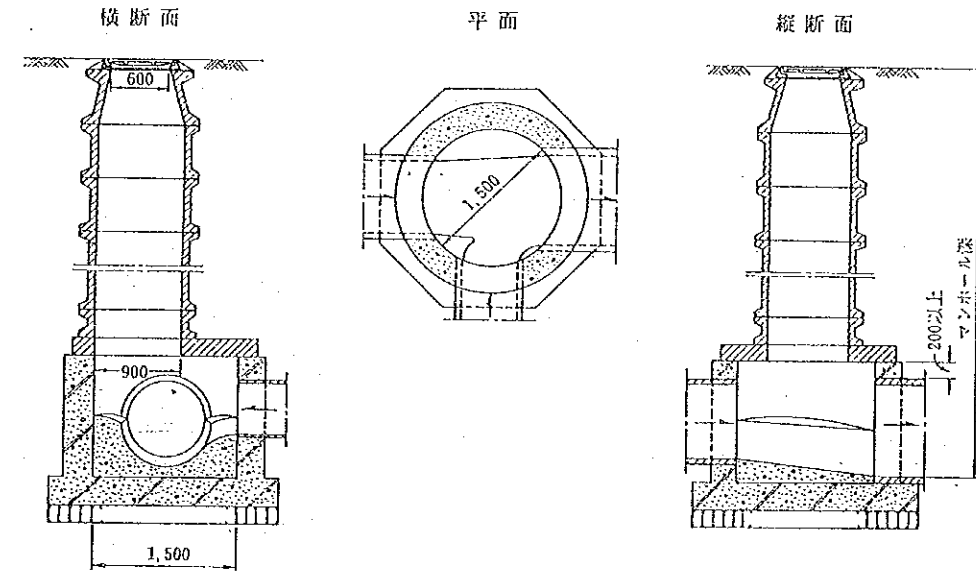
POINT NUMBER	SEWER LENGTH (m)	TOTAL SEWER LENGTH (m)	GROUND HEIGHT (M ASL)	INVERT ELEVATION (M ASL)	EARTH COVERING OVERBURDEN (m)
501	0	0	10562.2	10560.900	1.00
502	5.0	5.0	10562.2	10560.620	1.30
503	5.0	10.0	10562.2	10560.320	1.60
504	5.0	15.0	10562.2	10560.020	1.90
505	5.0	20.0	10561.6	10559.720	1.60
506	5.0	25.0	10563.5	10559.220	1.00
507	5.0	30.0	10570.0	10557.720	1.00
508	5.0	35.0	10545.6	10533.300	1.00
509	5.0	40.0	10545.6	10533.020	1.30
510	5.0	45.0	10546.6	10529.720	1.60
511	5.0	50.0	10537.6	10524.420	1.00
512	5.0	55.0	10528.6	10515.200	1.00
513	5.0	60.0	10519.6	10506.020	1.00
514	5.0	65.0	10510.6	10497.820	1.00
515	5.0	70.0	10497.6	10484.420	1.00
516	5.0	75.0	10491.6	10478.220	1.00
517	5.0	80.0	10485.6	10472.220	1.00
518	5.0	85.0	10476.6	10463.320	1.00
519	5.0	90.0	10470.6	10457.220	1.00
520	5.0	95.0	10455.6	10444.220	1.00
521	5.0	100.0	10445.6	10433.220	1.00
522	5.0	105.0	10433.6	10419.220	1.00
523	5.0	110.0	10524.6	10411.220	1.00
524	5.0	115.0	10418.6	10404.220	1.00
			10361.56	10361.56	5.36
234	5.0	120.0	10350.6	10333.620	1.06

No.32 エリア6 接続管渠平縦断面図

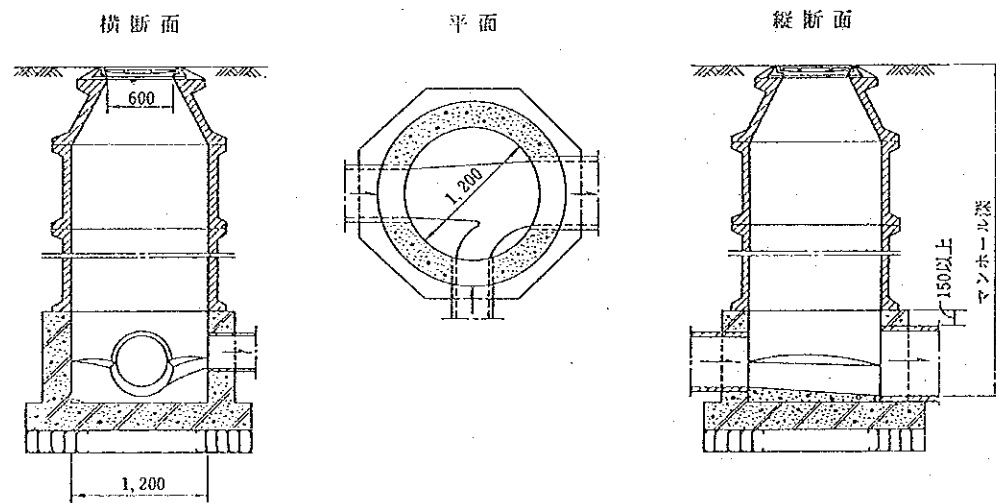
1号マンホール(円形)



3号マンホール(円形)



2号マンホール(円形)





## 8. 現地側負担工事の概要および概算工事費





## 資料8 現地側負担工事の概要および概算工事費

本計画の実施に必要な主要現地側負担工事の概要および概算工事費は以下のとおりである。

### (1) フェンス工事

処理場内への無用な立ち入りを防止し、法下や池への転落がないよう、処理場周囲に金網フェンスを設置するものである。フェンスの高さは2.1 mとする。また、金網ゲートを1ヶ所設ける。工事数量は処理場周囲の内りロンゲ川側を除いた2,000 mとする。

金網フェンス (H=2.1m、設置工共)	MK350 × 2,000m	=	MK700,000
金網ゲート (H=2.1m、W=6.0m)	3,800 × 1ヶ所	=	3,800
合 計			MK703,800
			≒ MK704,000

### (2) 処理場進入道路工事

処理場用地へのアクセス道路を建設し、工事用車両の往来および完成後の処理場への出入りに用いる。道路幅は5 mとし、延長は既存道路から隣接村落まで2,300 m、村落から用地までの700 mの合計3,000 mとする。路床工、路盤工まで施工し、舗装は施さない。路盤工は既存道路から隣接村落までは碎石1層の敷均し、村落から用地までは碎石2層の敷均しとした。

不陸整形	MK 4.1 × 2,300m	=	MK 9,430
伐開、切盛土工、不陸整形	19.5 × 700m	=	13,650
路床、路盤工 (1層)	97.2 × 2,300m	=	223,560
路床、路盤工 (2層)	158.1 × 700m	=	110,670
合 計			MK357,310
			≒ MK357,000

### (3) 幹線ルート伐開工

幹線ルート上の仮設道路用地上の樹木を伐採、除根するものである。伐開幅は5 mとし、延長は17kmとする。

伐開、除根工	MK1.2 × 85,000 m <sup>2</sup>	=	MK102,000
合 計			MK102,000

### (4) 上水道引込工事

近隣の上水道配水管網から処理場用地まで上水道引込管を敷設する。亜鉛メッキ鋼管の口径2“(50mm)の管を埋設する。延長は2 kmとする。

引込管敷設工（材工共）	MK53.5 × 2,000 m =	MK107,000
合 計		MK107,000

(5) 電力引込工事（電力会社工事、市が費用負担）

近隣の11kV送電線から処理場用地内受電施設まで架線にて電力引込線を敷設する。延長は1 kmとする。

引込線敷設工（材工共）	一式	MK593,000
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(6) 電話線引込工事（電話会社工事、市が費用負担）

近隣の電話線から処理場用地まで一部電力引込線電柱を利用し架線にて電話線を敷設する。延長は2 kmとする。

電話線敷設工（材工共）	一式	MK 56,000
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以上の工事費用は直接工事費であり、これに、その他諸経費として直接工事費の40%、および設計監理費として直接工事費と諸経費の合計額の8%（一部5%）を見込むとマラウイ側負担工事の概算事業費は以下ようになる。

マラウイ側負担工事の概算事業費

工 事 名	直 接 工 事 費	諸 経 費	設計監理費*	概 算 事 業 費
①フェンス工事	704,000	281,600	49,280* <sup>2</sup>	1,035,000
②処理場進入道路工事	357,000	142,800	39,984* <sup>1</sup>	540,000
③幹線ルート伐開工	102,000	40,800	7,140* <sup>2</sup>	150,000
④上水道引込工事	107,000	42,800	11,984* <sup>1</sup>	162,000
合 計	MK1,270,000	MK 508,000	MK 108,388	MK1,887,000
⑤電力引込工事（電力会社工事）		（含諸経費；直工の40%）		MK 837,000
⑥電話線引込工事（電話会社工事）		（含諸経費；直工の40%）		78,000
総 計				MK2,802,000

\*設計監理費 = (直接工事費 + 諸経費) × (\*1; 8%, \*2; 5%)

MK 1 (マラウイクワチャ) = ¥25.25

US\$ 1 = MK 4.3090







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