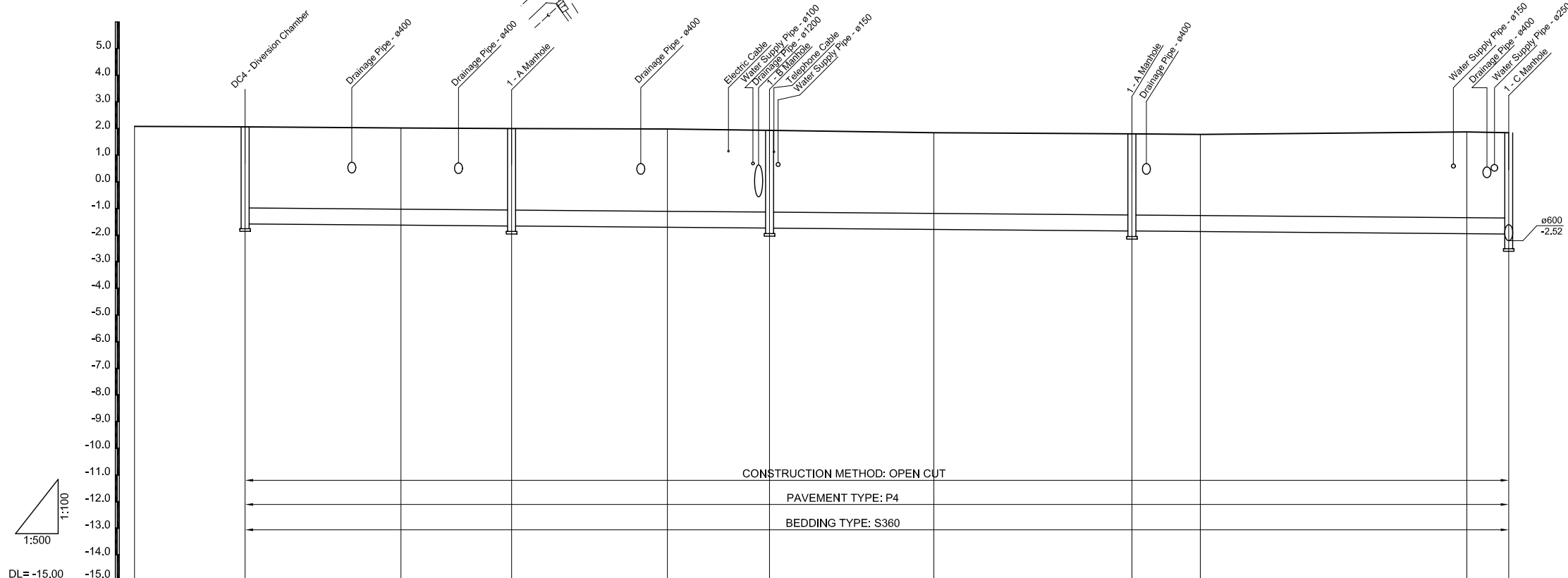
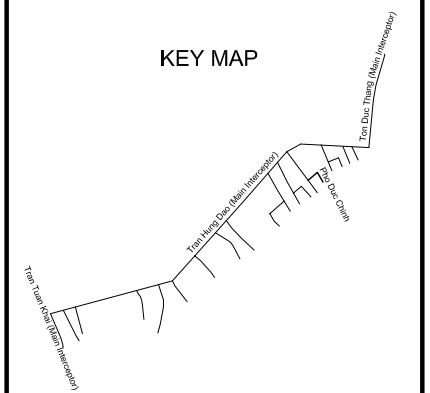


PROFILE $S_H = 1/500, S_V = 1/100$



Manhole number	DC-5	M5-1	M5-2	M5-3	M6-4
Diameter (mm)		Ø600	Ø600	Ø600	Ø600
Gradient (%)		1.6	1.6	1.6	1.6
Length (m)		50.0	48.4	68.0	70.7
Ground Elevation (m)	2.08	2.06	2.02	2.00	1.98
Earth Covering (m)		3.04	3.05	3.06	3.09
Invert Elevation (m)		-1.58	-1.63	-1.66	-1.71
Accumulation Length (m)		0.0	29.2	50.0	79.2
					98.4
					129.2
					166.4
					179.2
					229.2
					237.1



LEGEND

- Sewer Line
- Planned Sewer
- Existing Sewer
- Telephone Cable
- Electric Cable
- Water Pipe
- Outlet Without Flap Gate
- Outlet With Flap Gate
- Manhole
- Special Manhole
- Diversion Chamber
- Diversion Chamber with Manhole
- Existing Manhole
- Existing Inlet
- Telephone Cable Inspection Chamber
- Electric Cable Inspection Chamber
- Fire Hydrant
- S4 - Area to be Required for Shaft
- Sewer Connected from The Right Side
- Sewer Connected from The Left Side

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

PACKAGE C
INTERCEPTOR SEWER CONSTRUCTION

**PLAN AND PROFILE OF
SECONDARY INTERCEPTOR SEWER
(5)**

SCALE : AS SHOWN

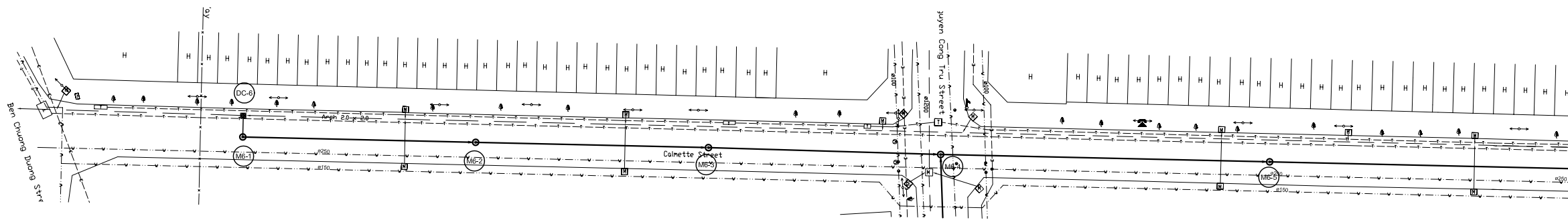
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

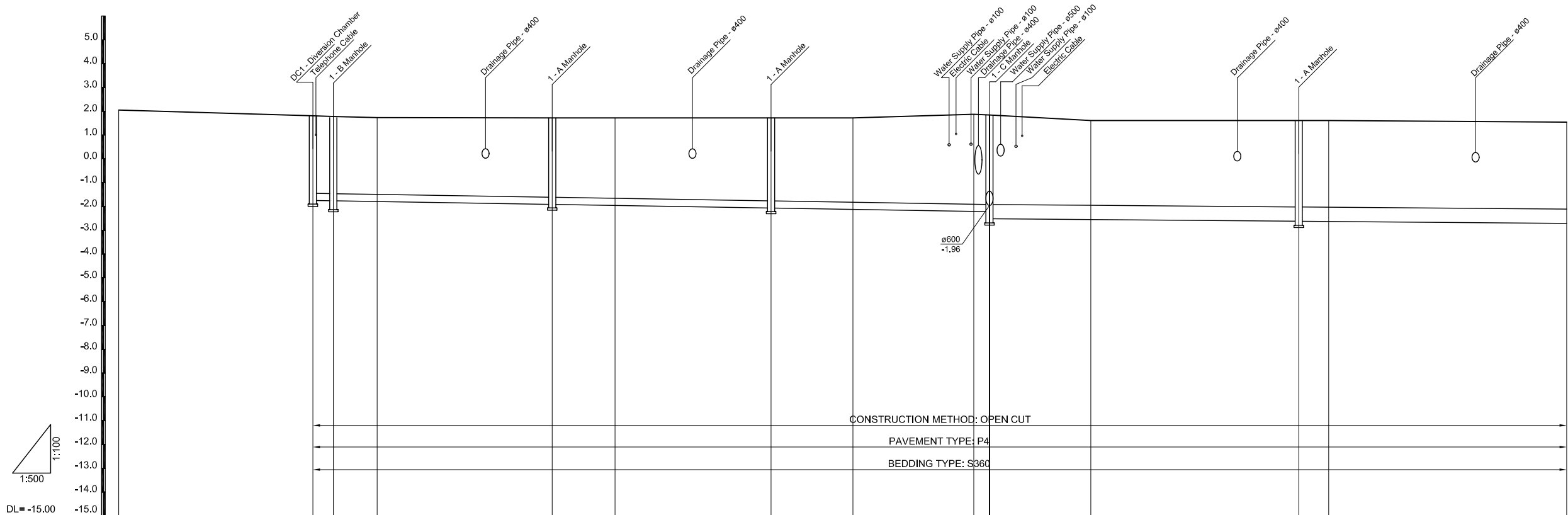
DESIGNED SATO NOBUYUKI	CHECKED KONDO MASAMI
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DATE : JUNE 2001 DWG. No. PC - ISC - 227

PLAN S = 1/500

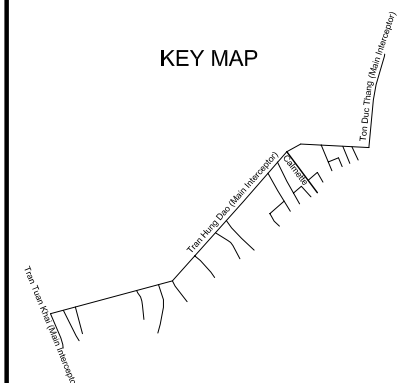


PROFILE S_H = 1/500, S_V = 1/100

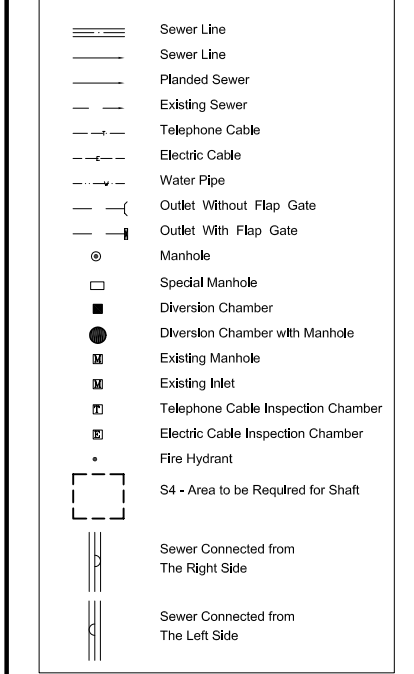


Manhole number	DC-6 M6-1		M6-2		M6-3		M6-4		M6-5						
Diameter (mm)	Ø300		Ø300		Ø300		Ø300		Ø600						
Gradient (‰)	3.3		3.3		3.3		1.6		1.6						
Length (m)	4.3		46.0		45.9		65.0		66.0						
Ground Elevation (m)	2.06	1.81	1.76	1.73	1.72	1.72	1.87	1.84	1.61	1.61	1.54				
Earth Covering (m)		3.26	3.24	3.23	3.34	3.38	3.49	3.54	3.78	3.76	3.56	3.63	3.64	3.65	
Invert Elevation (m)		-1.75	-1.76	-1.79	-1.92	-1.96	-2.07	-2.13	-2.21	-2.22	-2.52	-2.55	-2.62	-2.63	-2.71
Accumulation Length (m)		0.0	4.3	13.5	50.3	63.5	96.3	113.5	138.9	142.2	163.5	207.2	213.5	263.5	

KEY MAP

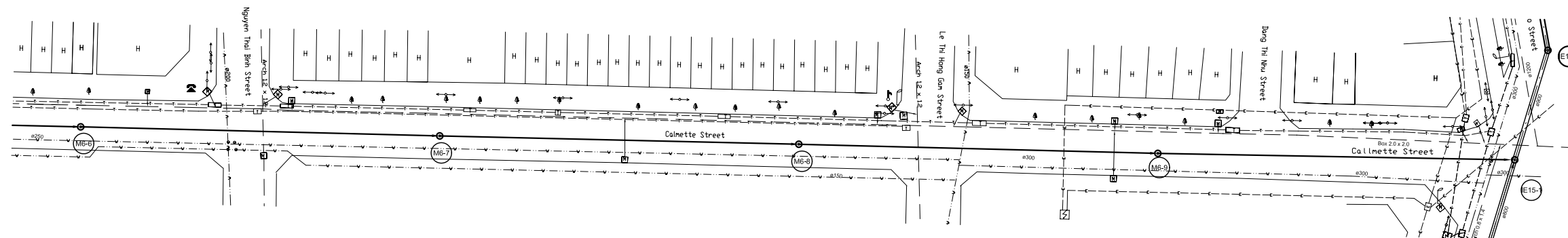


LEGEND

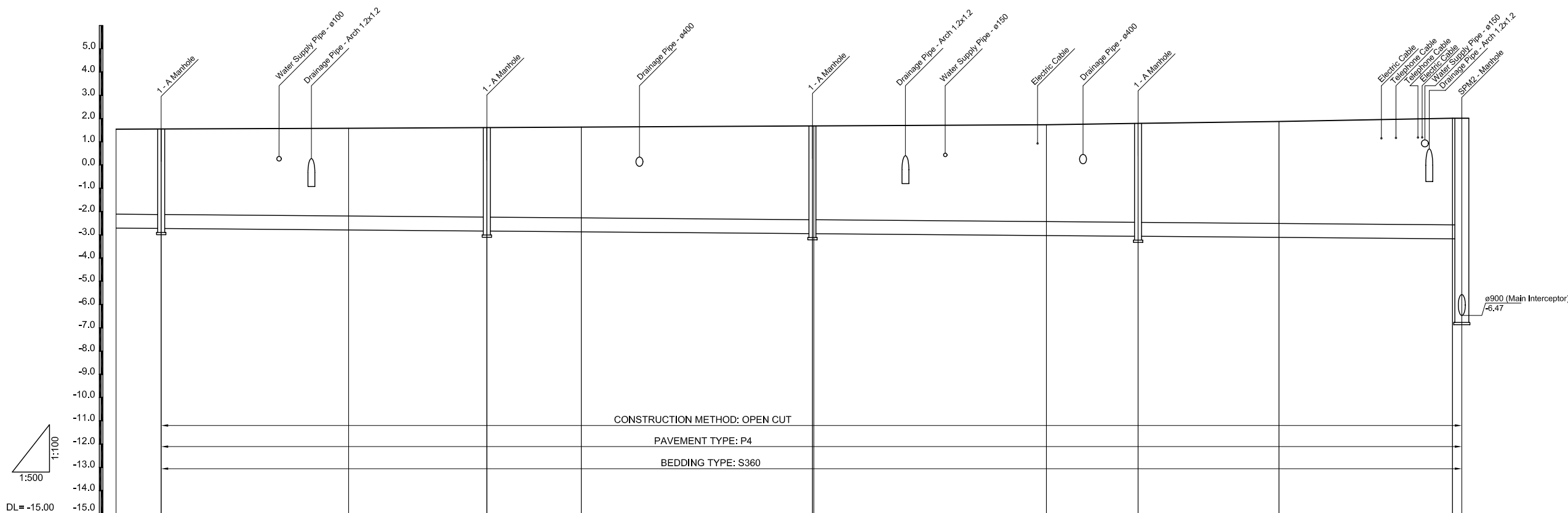


NO.	DATE	DESCRIPTIONS	BY	APRO.
REVISIONS				
PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT				
THE DETAILED DESIGN ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM				
PACKAGE C INTERCEPTOR SEWER CONSTRUCTION				
PLAN AND PROFILE OF SECONDARY INTERCEPTOR SEWER (6)				
SCALE : AS SHOWN				
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED SATO NOBUYUKI		CHECKED KONDO MASAMI		
DATE : JUNE 2001		DWG. No. PC - ISC - 228		

PLAN S = 1/500

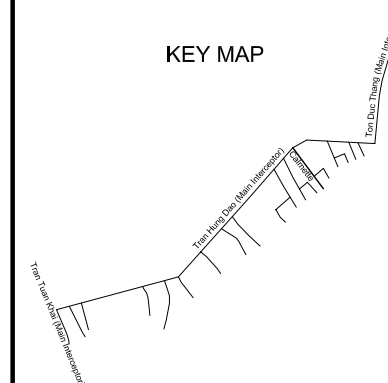


PROFILE S_H = 1/500, S_V = 1/100



Manhole number	M6-6		M6-7		M6-8		M6-9		IE15-1	
Diameter (mm)	Ø600		Ø600		Ø600		Ø600		Ø600	
Gradient (‰)	1.6		1.6		1.6		1.6		1.6	
Length (m)	70.0		70.0		70.0		69.6			
Ground Elevation (m)	1.54	1.55	1.58	1.61	1.63	1.68	1.73	1.79	1.87	2.01
Earth Covering (m)	3.65	3.68	3.77	3.85	3.90	4.03	4.16	4.25	4.38	4.59
Invert Elevation (m)	-2.71	-2.73	-2.79	-2.84	-2.87	-2.95	-3.03	-3.06	-3.11	-3.17
Accumulation Length (m)	263.5	273.2	313.5	343.2	363.5	413.5	463.5	483.2	513.5	550.6
										552.8

KEY MAP



LEGEND

- Sewer Line
- Sewer Line
- Planted Sewer
- Existing Sewer
- Telephone Cable
- Electric Cable
- Water Pipe
- Outlet Without Flap Gate
- Outlet With Flap Gate
- Manhole
- Special Manhole
- Diversion Chamber
- Diversion Chamber with Manhole
- Existing Manhole
- Existing Inlet
- Telephone Cable Inspection Chamber
- Electric Cable Inspection Chamber
- Fire Hydrant
- S4 - Area to be Required for Shaft
- Sewer Connected from The Right Side
- Sewer Connected from The Left Side

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

PACKAGE C
INTERCEPTOR SEWER CONSTRUCTION

PLAN AND PROFILE OF
SECONDARY INTERCEPTOR SEWER
(7)

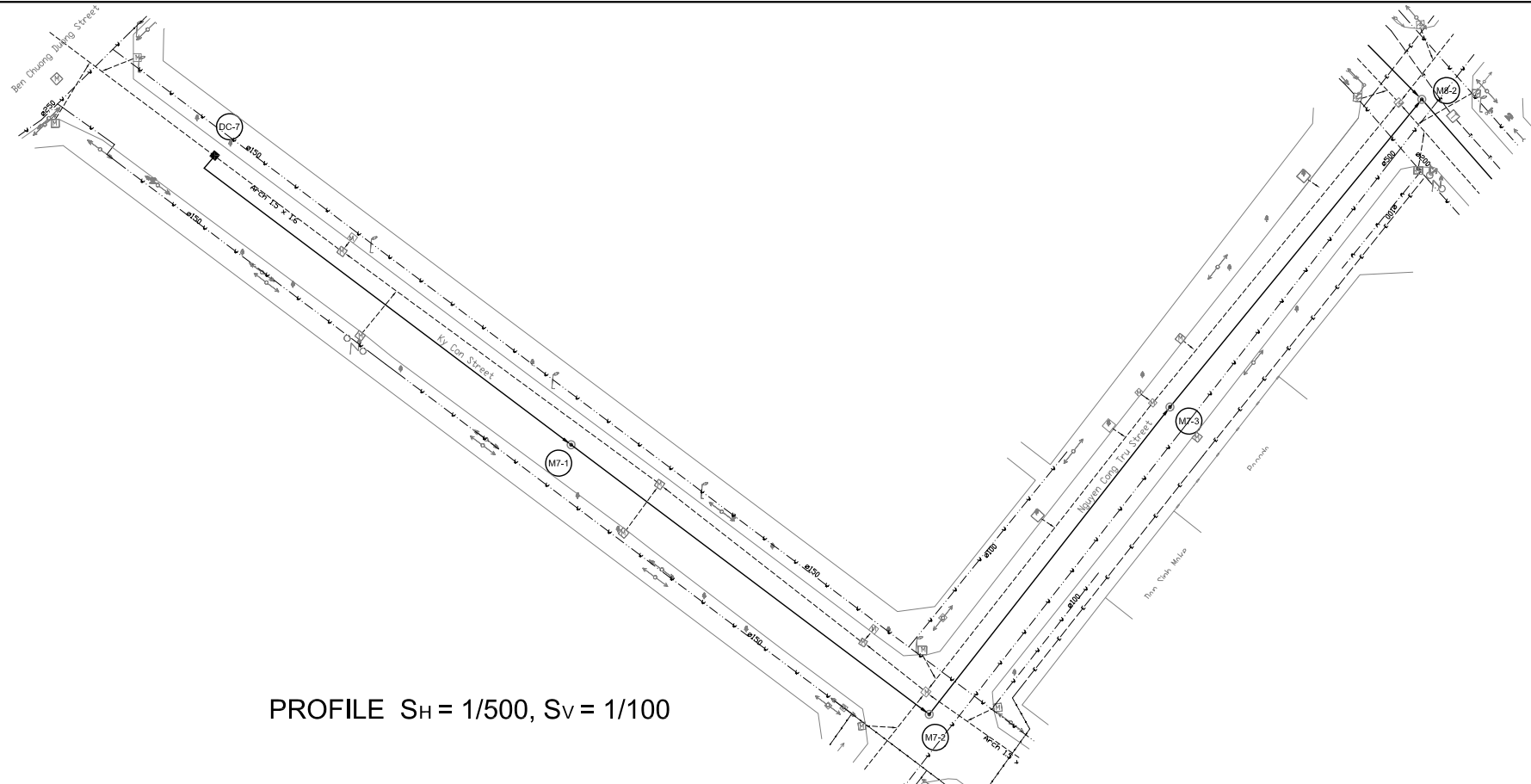
SCALE : AS SHOWN

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

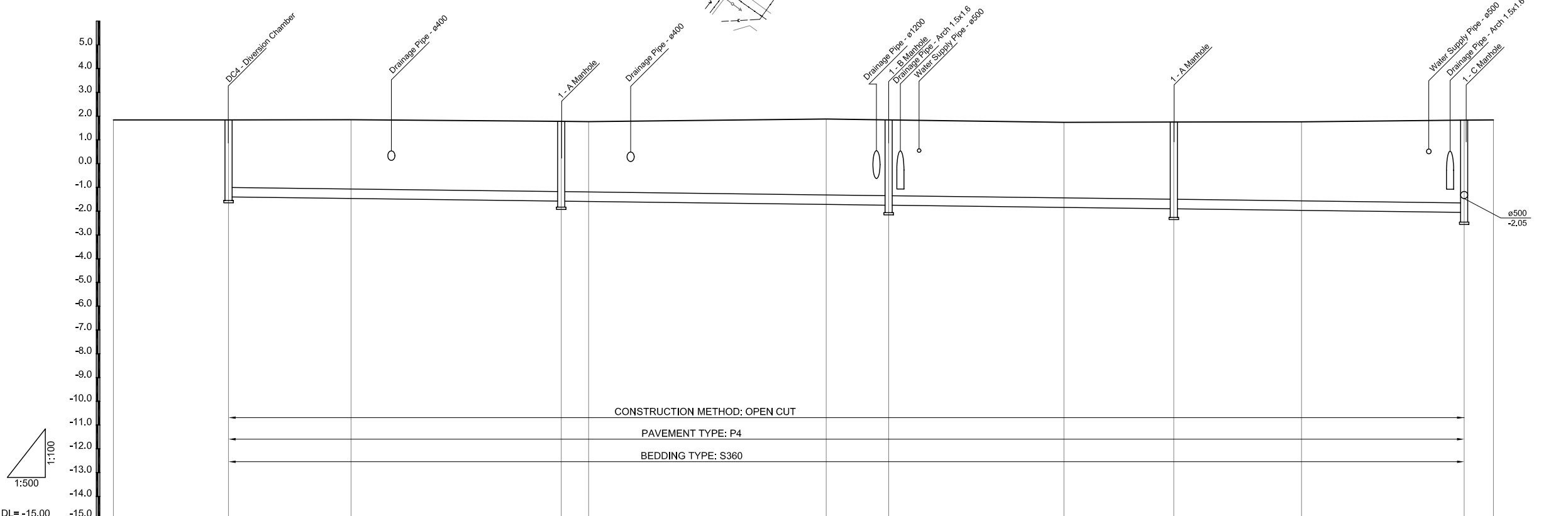
PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED SATO NOBUYUKI	CHECKED KONDO MASAMI
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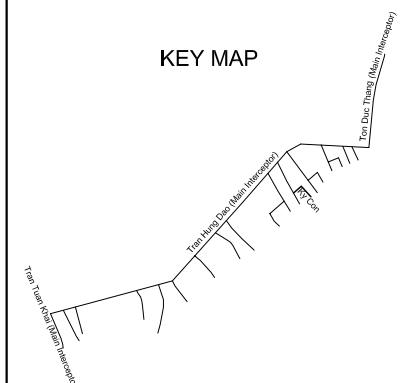
DATE : JUNE 2001 DWG. No. PC - ISC - 229



PROFILE $S_H = 1/500$, $S_V = 1/100$



Manhole number	DC-7		M7-1		M7-2		M7-3		M8-2			
Diameter (mm)	Ø400		Ø400		Ø400		Ø400		Ø400			
Gradient (%)	2.5		2.5		2.5		2.5		2.5			
Length (m)	70.0		68.9		60.0		61.1					
Ground Elevation (m)	1.84	1.84	1.85	1.78	1.77	1.88	1.84	1.74	1.75	1.76	1.83	1.84
Earth Covering (m)	2.94	3.01	3.06	3.06	3.28	3.28	3.28	3.35	3.42	3.56	3.56	
Invert Elevation (m)	-1.40	-1.46	-1.58	-1.59	-1.71	-1.75	-1.84	-1.90	-1.96	-2.05	-2.05	
Accumulation Length (m)	0.0	25.8	70.0	75.8	125.8	138.9	175.8	188.9	225.8	280.0		



LEGEND

- Sewer Line
- Sewer Line
- Planned Sewer
- Existing Sewer
- Telephone Cable
- Electric Cable
- Water Pipe
- Outlet Without Flap Gate
- Outlet With Flap Gate
- Manhole
- Special Manhole
- Diversion Chamber
- Diversion Chamber with Manhole
- Existing Manhole
- Existing Inlet
- Telephone Cable Inspection Chamber
- Electric Cable Inspection Chamber
- Fire Hydrant
- S4 - Area to be Required for Shaft
- Sewer Connected from The Right Side
- Sewer Connected from The Left Side

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

PACKAGE C
INTERCEPTOR SEWER CONSTRUCTION

**PLAN AND PROFILE OF
SECONDARY INTERCEPTOR SEWER
(8)**

SCALE : AS SHOWN

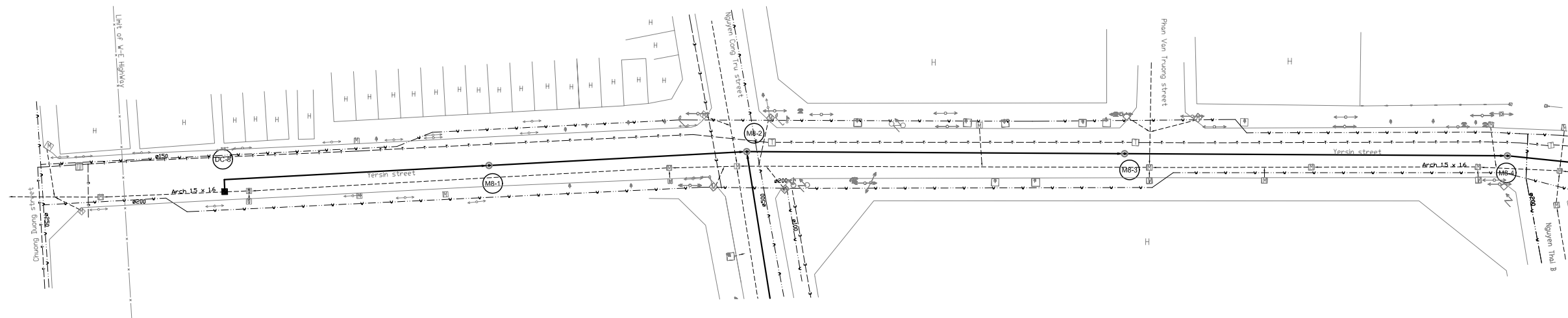
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

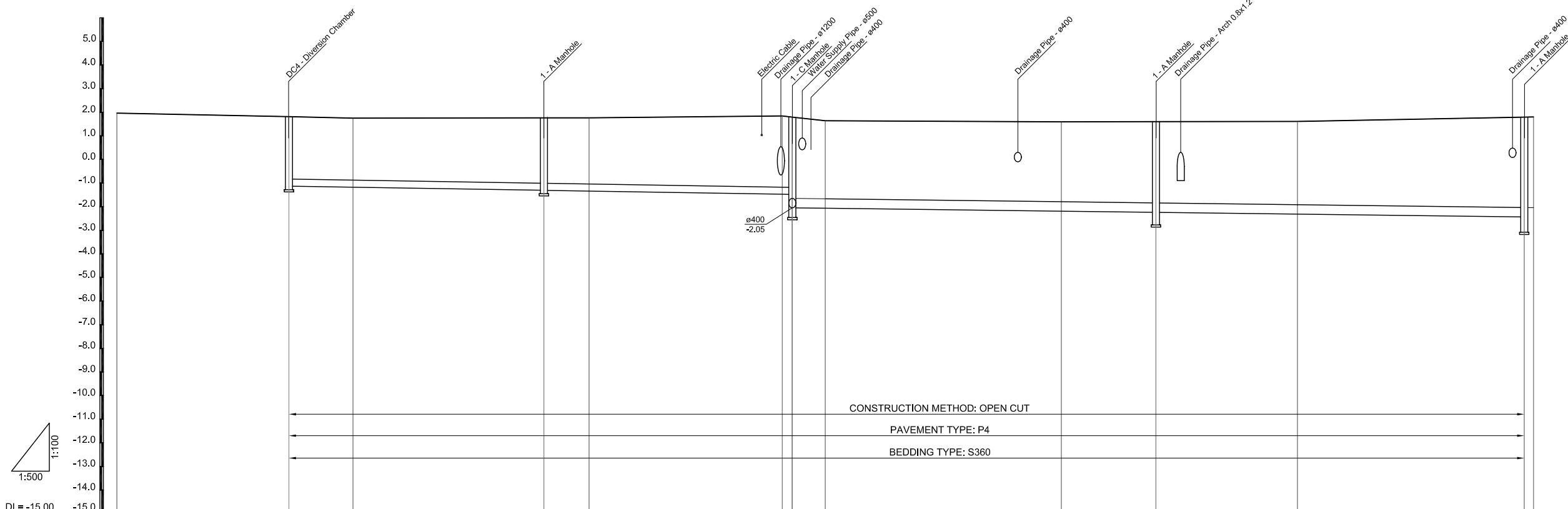
DESIGNED SATO NOBUYUKI	CHECKED KONDO MASAMI
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DATE : JUNE 2001 DWG. No. PC - ISC - 230

PLAN S = 1/500

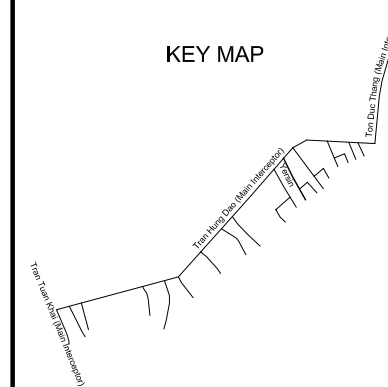


PROFILE S_H = 1/500, S_V = 1/100



Manhole number	DC-8		M8-1		M8-2		M8-3		M8-4				
Diameter (mm)	Ø300		Ø300		Ø400		Ø400						
Gradient(‰)	3.3		3.3		2.5		2.5						
Length (m)	54.0		52.6		77.0		78.0						
Ground Elevation (m)	1.96	1.81	1.75	1.76	1.76	1.84	1.79	1.64	1.59	1.60	1.61	1.70	1.80
Earth Covering (m)		2.64	2.63	2.77	2.80	3.02	3.44	2.97	3.31	3.44	3.53	3.83	3.84
Invert Elevation (m)		-1.13	-1.18	-1.31	-1.34	-1.48	-1.48	-2.05	-2.07	-2.19	-2.24	-2.32	-2.44
Accumulation Length (m)		0.0	13.6	54.0	63.6	104.5	106.6	113.6	163.6	183.6	213.6	261.6	

KEY MAP



LEGEND

- Sewer Line
- Sewer Line
- Planned Sewer
- Existing Sewer
- Telephone Cable
- Electric Cable
- Water Pipe
- Outlet Without Flap Gate
- Outlet With Flap Gate
- Manhole
- Special Manhole
- Diversion Chamber
- Diversion Chamber with Manhole
- Existing Manhole
- Existing Inlet
- Telephone Cable Inspection Chamber
- Electric Cable Inspection Chamber
- Fire Hydrant
- S4 - Area to be Required for Shaft
- Sewer Connected from The Right Side
- Sewer Connected from The Left Side

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

PACKAGE C
INTERCEPTOR SEWER CONSTRUCTION

PLAN AND PROFILE OF
SECONDARY INTERCEPTOR SEWER
(9)

SCALE : AS SHOWNN

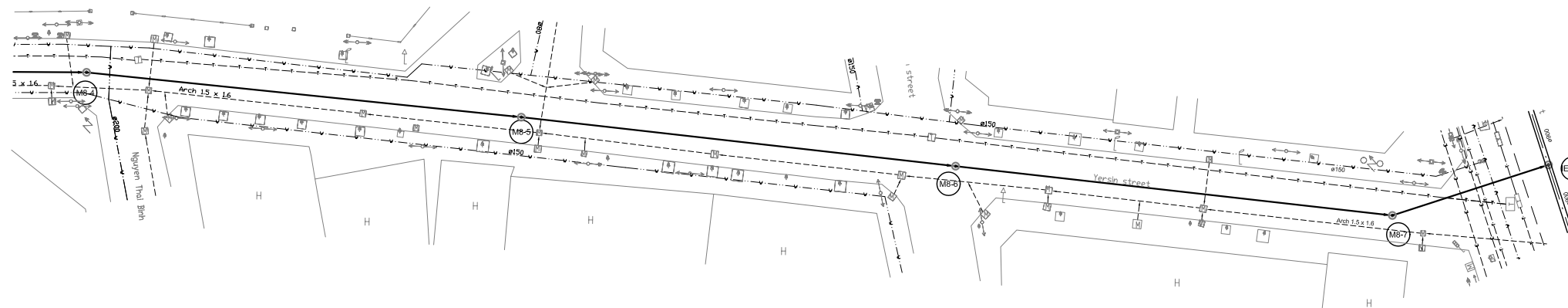
JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

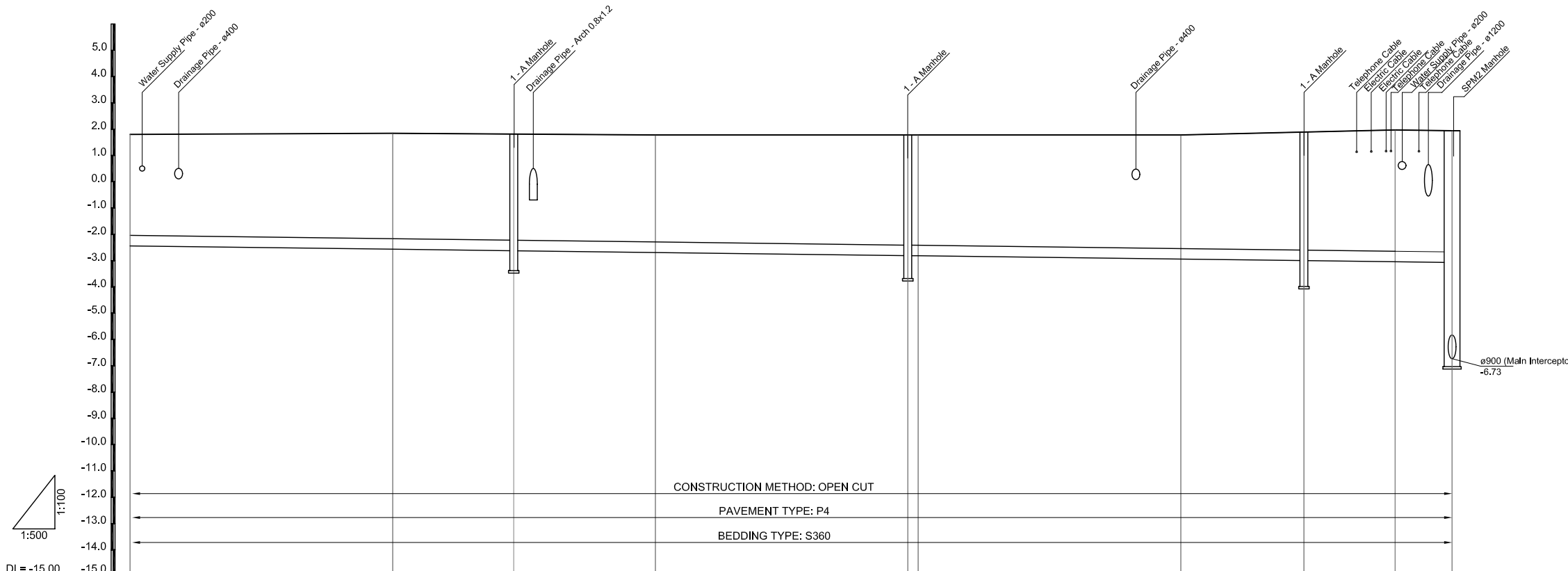
DESIGNED SATO NOBUYUKI	CHECKED KONDO MASAMI
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DATE : JUNE 2001 DWG. No. PC - ISC - 231

PLAN S = 1/500

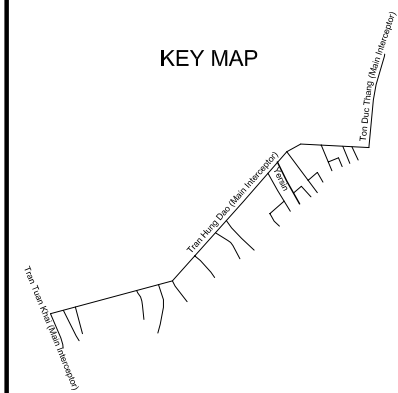


PROFILE $S_H = 1/500, S_V = 1/100$



Manhole number	M8-5				M8-6				M8-7				IE16-1	
Diameter (mm)	Ø400				Ø400				Ø400				Ø400	
Gradient(‰)	2.5				2.5				2.5				2.5	
Length (m)	75.0				75.0				75.4				28.2	
Ground Elevation (m)	1.80	1.84	1.81	1.78	1.78	1.78	1.78	1.78	1.89	1.97	1.94	1.94	1.94	
Earth Covering (m)	3.84	4.01	4.04	4.07	4.19	4.20	4.32	4.49	4.61	4.61	4.61	4.61		
Invert Elevation (m)	-2.44	-2.57	-2.63	-2.69	-2.81	-2.82	-2.94	-3.00	-3.04	-3.07	-3.07	-3.07		
Accumulation Length (m)	283.6	313.6	336.6	363.6	411.6	413.6	463.6	487.0	504.4	515.2	515.2	515.2		

KEY MAP



LEGEND

- Sewer Line
- Sewer Line
- Planned Sewer
- Existing Sewer
- Telephone Cable
- Water Pipe
- Outlet Without Flap Gate
- Outlet With Flap Gate
- Manhole
- Special Manhole
- Diversion Chamber
- Diversion Chamber with Manhole
- Existing Manhole
- Existing Inlet
- Telephone Cable Inspection Chamber
- Electric Cable Inspection Chamber
- Fire Hydrant
- S4 - Area to be Required for Shaft
- Sewer Connected from The Right Side
- Sewer Connected from The Left Side

NO.	DATE	DESCRIPTIONS	BY	APRO.
REVISIONS				
PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT				
THE DETAILED DESIGN ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM				
PACKAGE C INTERCEPTOR SEWER CONSTRUCTION				
PLAN AND PROFILE OF SECONDARY INTERCEPTOR SEWER (10)				
SCALE : AS SHOWNN				
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED SATO NOBUYUKI		CHECKED KONDO MASAMI		
DATE : JUNE 2001		DWG. No. PC - ISC - 232		