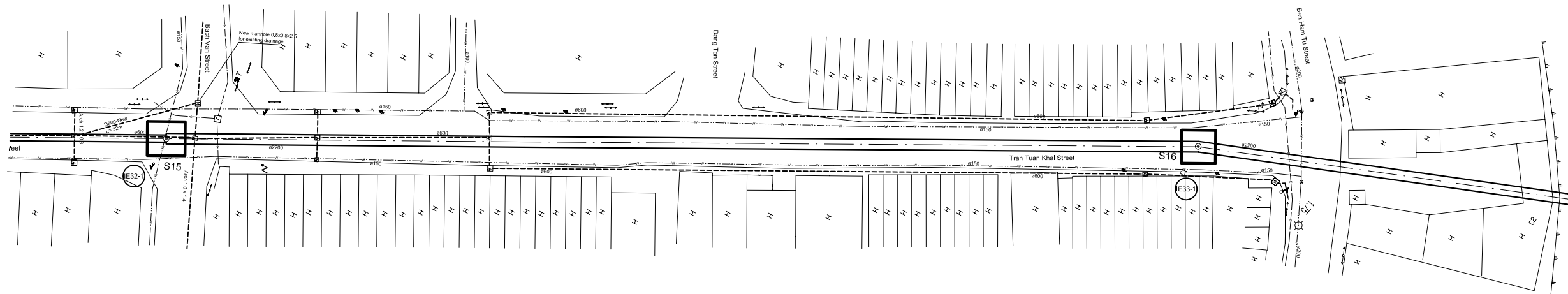
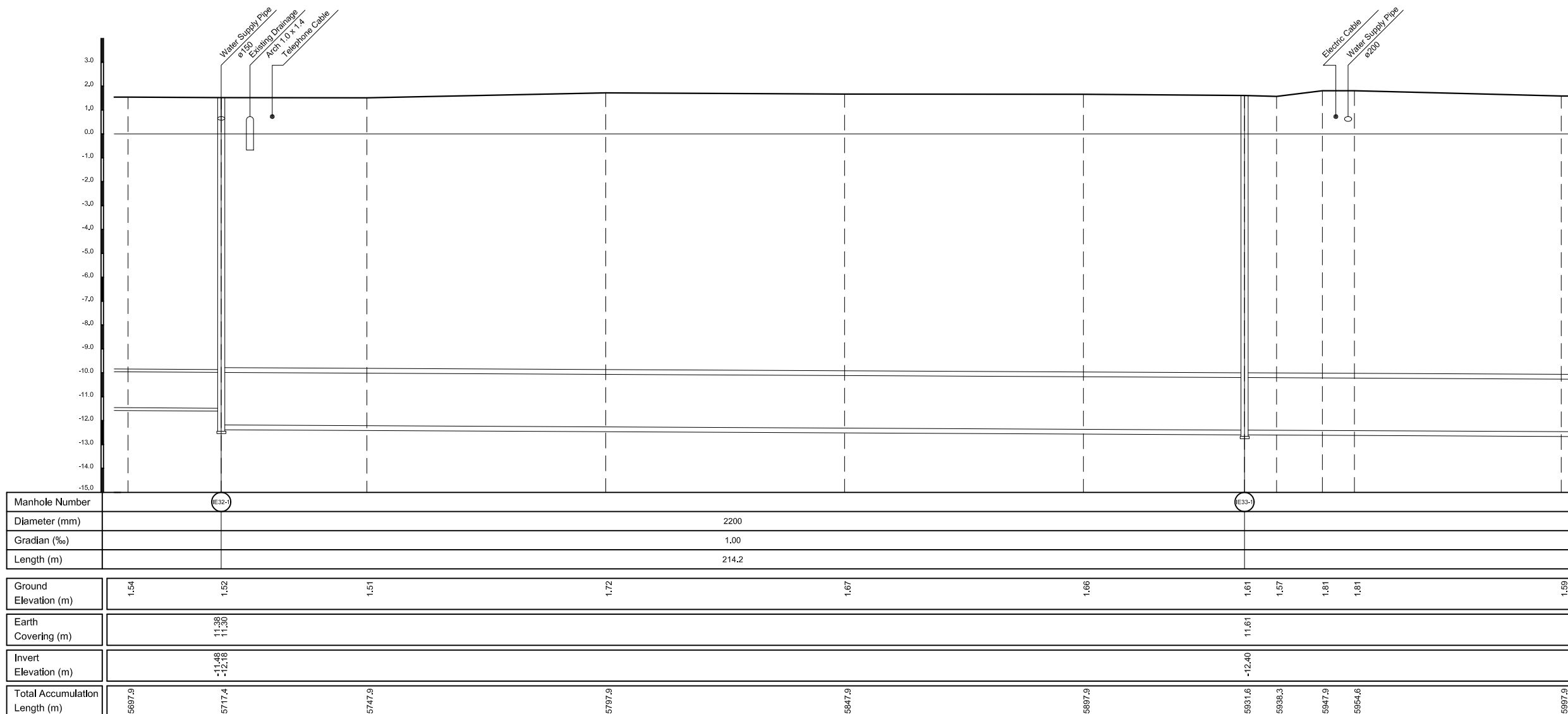


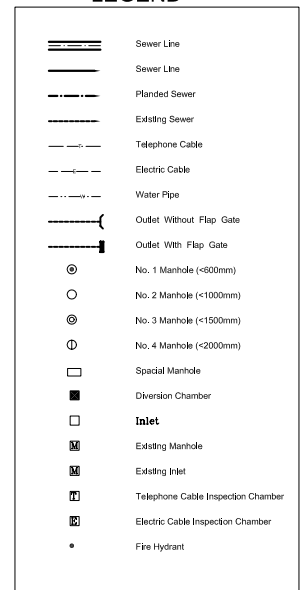
PLAN S = 1/500



PROFILE S<sub>H</sub> = 1/500, S<sub>V</sub> = 1/100

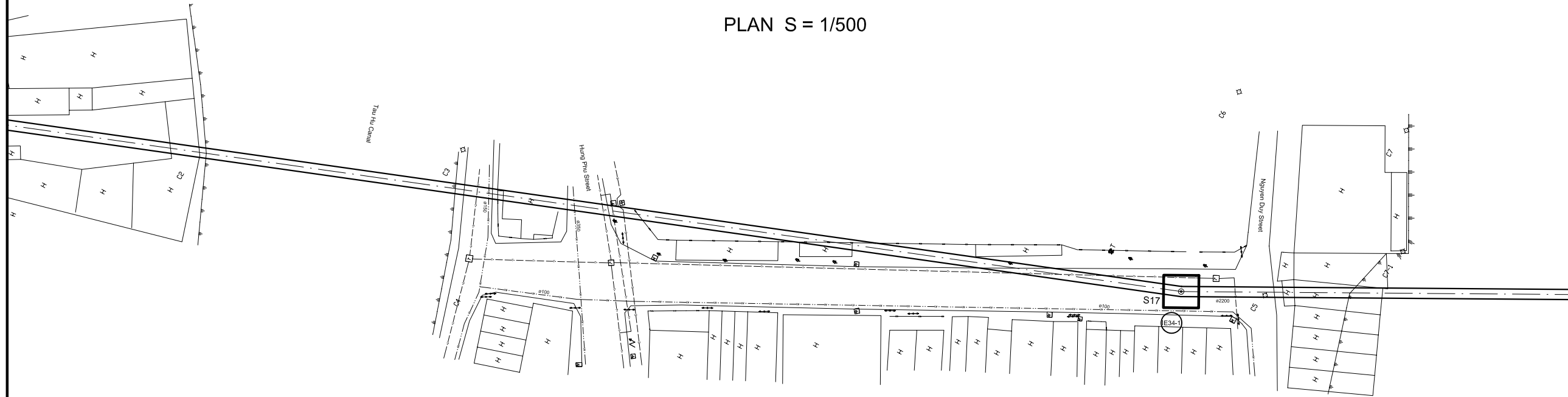


LEGEND

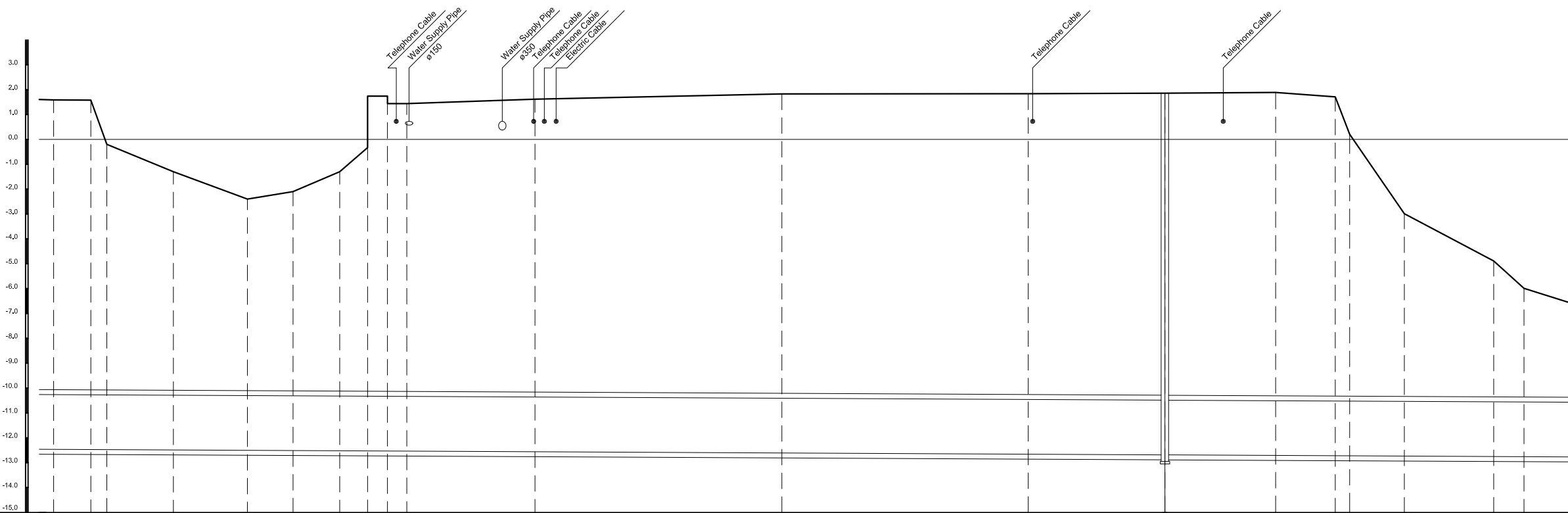


NO.	DATE	DESCRIPTIONS	BY	APRO.
REVISIONS				
PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT				
THE DETAILED DESIGN STUDY ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM				
PACKAGE C INTERCEPTOR SEWER CONSTRUCTION				
PLAN AND PROFILE OF MAIN INTERCEPTOR SEWER (20)				
SCALE : As Shown				
JAPAN INTERNATIONAL COOPERATION AGENCY ( JICA )				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED SATO NOBUYUKI		CHECKED KONDO MASAMI		
DATE : JUNE 2001		DWG. No. PC - ISC - 220		

PLAN S = 1/500



PROFILE S<sub>H</sub> = 1/500, S<sub>V</sub> = 1/100



Manhole Number																					
Diameter (mm)	2200																				
Gradient (%)	1.00																				
Length (m)	290																				
Ground Elevation (m)	1.59	1.58	-0.20	-1.30	-2.40	-2.10	-1.30	-0.33	1.74	1.44	1.44	1.62	1.83	1.84	1.86	1.89	1.71	0.21	-2.99	-4.89	-5.99
Earth Covering (m)																					
Invert Elevation (m)																					
Total Accumulation Length (m)	5997.9	6005.4	6008.6	6022.0	6036.9	6046.1	6055.5	6061.1	6061.1	6065.1	6065.1	6069.0	6144.5	6194.1	6221.6	6243.9	6255.9	6258.8	6269.8	6287.8	6293.9

LEGEND

	Sewer Line
	Sewer Line
	Planned Sewer
	Existing Sewer
	Telephone Cable
	Electric Cable
	Water Pipe
	Outlet Without Flap Gate
	Outlet With Flap Gate
	No. 1 Manhole (<math>\leq 600\text{mm}</math>)
	No. 2 Manhole (<math>\leq 1000\text{mm}</math>)
	No. 3 Manhole (<math>\leq 1500\text{mm}</math>)
	No. 4 Manhole (<math>\leq 2000\text{mm}</math>)
	Special Manhole
	Diversion Chamber
	Inlet
	Existing Manhole
	Existing Inlet
	Telephone Cable Inspection Chamber
	Electric Cable Inspection Chamber
	Fire Hydrant

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR  
HO CHI MINH CITY  
WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN STUDY 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 MAIN  
INTERCEPTOR SEWER (21)

SCALE : As Shown

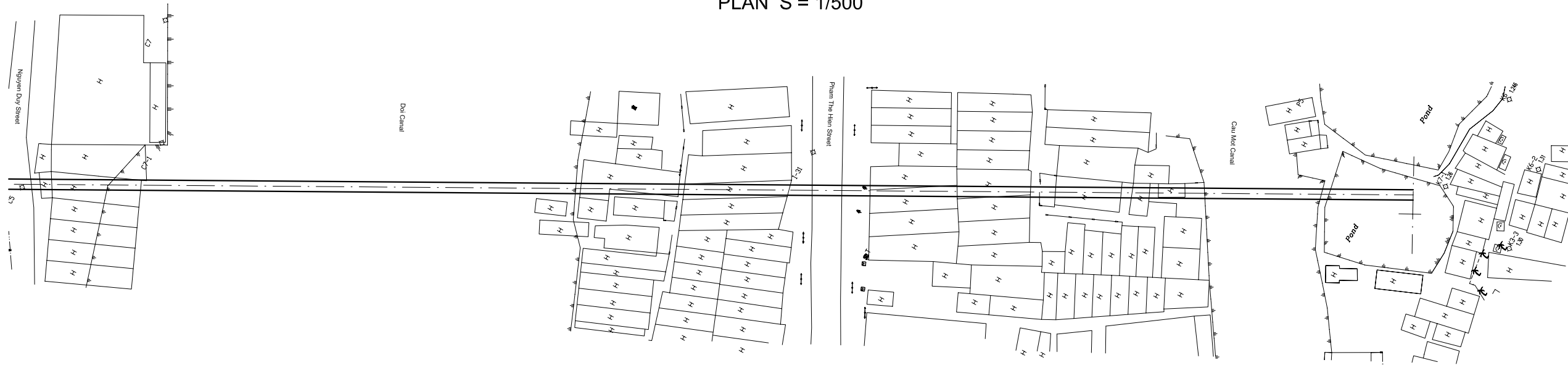
JAPAN INTERNATIONAL COOPERATION  
AGENCY ( JICA )

PACIFIC CONSULTANTS INTERNATIONAL

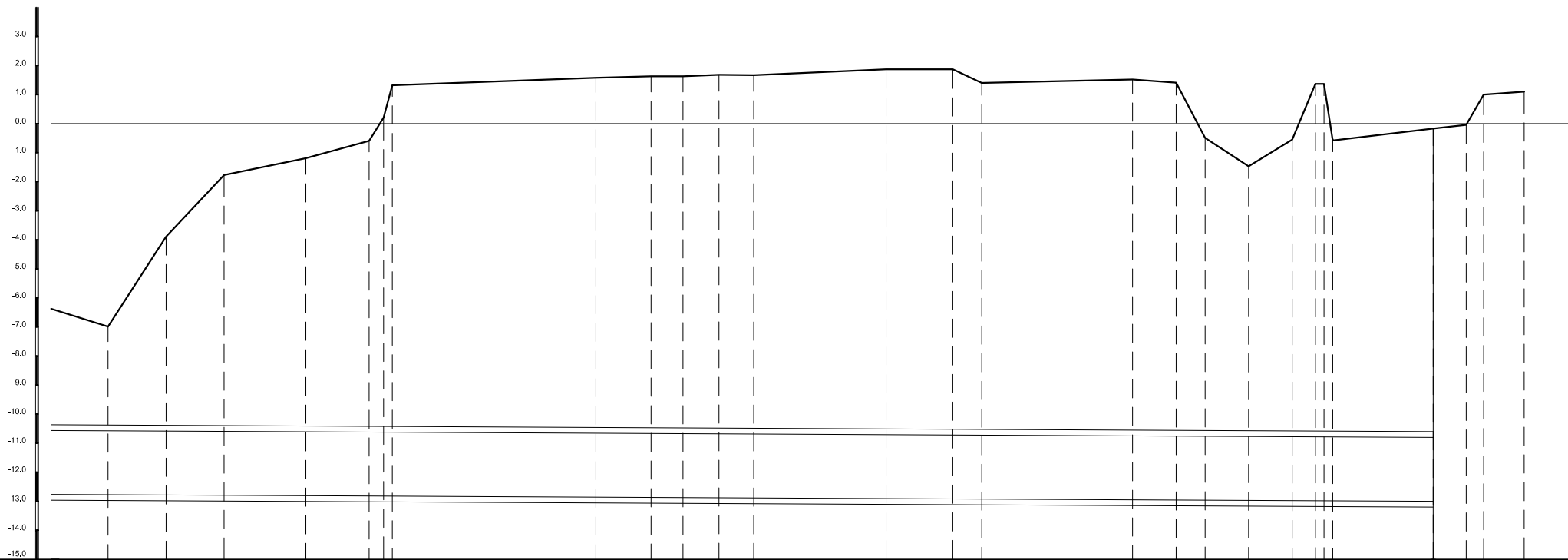
DESIGNED : SATO NOBUYUKI  
CHECKED : KONDO MASAMI

DATE : JUNE 2001      DWG. No. PC - ISC - 221

PLAN S = 1/500



PROFILE S<sub>H</sub> = 1/500, S<sub>V</sub> = 1/100



Manhole Number																				(MPS)						
Diameter (mm)	2200																									
Gradient (‰)	1.00																									
Length (m)	316.6																									
Ground Elevation (m)	-6.99	-3.89	-1.77	-1.19	-0.59	0.21	1.32	1.58	1.63	1.63	1.68	1.67	1.87	1.87	1.40	1.52	1.41	-0.49	-1.47	-0.55	1.37	-0.56	-0.17	-0.04	1.00	1.10
Earth Covering (m)																									10.44	
Invert Elevation (m)																									-13.01	
Total Accumulation Length (m)	6309.8	6319.8	6329.8	6343.9	6354.8	6357.3	6358.3	6393.9	6403.4	6408.9	6415.1	6421.1	6443.9	6455.4	6460.4	6466.4	6483.9	6498.9	6506.4	6513.9	6517.9	6520.5	6538.2	6543.9	6546.9	6553.9

LEGEND

- Sewer Line
- Sewer Line
- Planned Sewer
- Existing Sewer
- Telephone Cable
- Electric Cable
- Water Pipe
- Outlet Without Flap Gate
- Outlet With Flap Gate
- No. 1 Manhole (<900mm)
- No. 2 Manhole (<1000mm)
- No. 3 Manhole (<1500mm)
- No. 4 Manhole (<2000mm)
- Special Manhole
- Diversion Chamber
- Inlet
- Existing Manhole
- Existing Inlet
- Telephone Cable Inspection Chamber
- Electric Cable Inspection Chamber
- Fire Hydrant

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR  
HO CHI MINH CITY  
WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN STUDY 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 MAIN  
INTERCEPTOR SEWER (22)

SCALE : As Shown

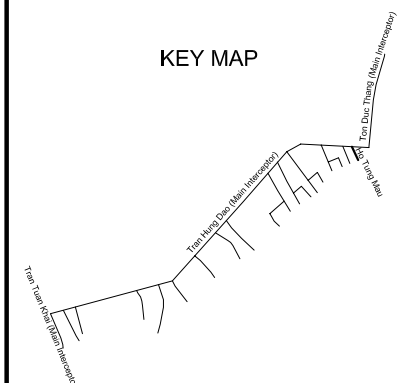
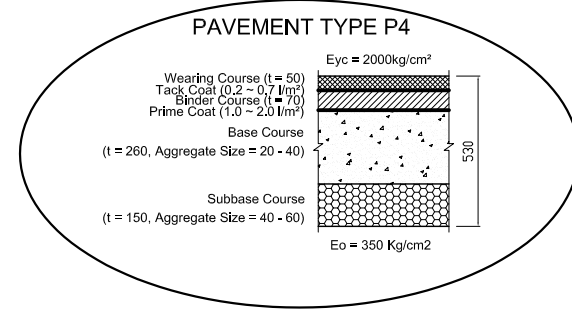
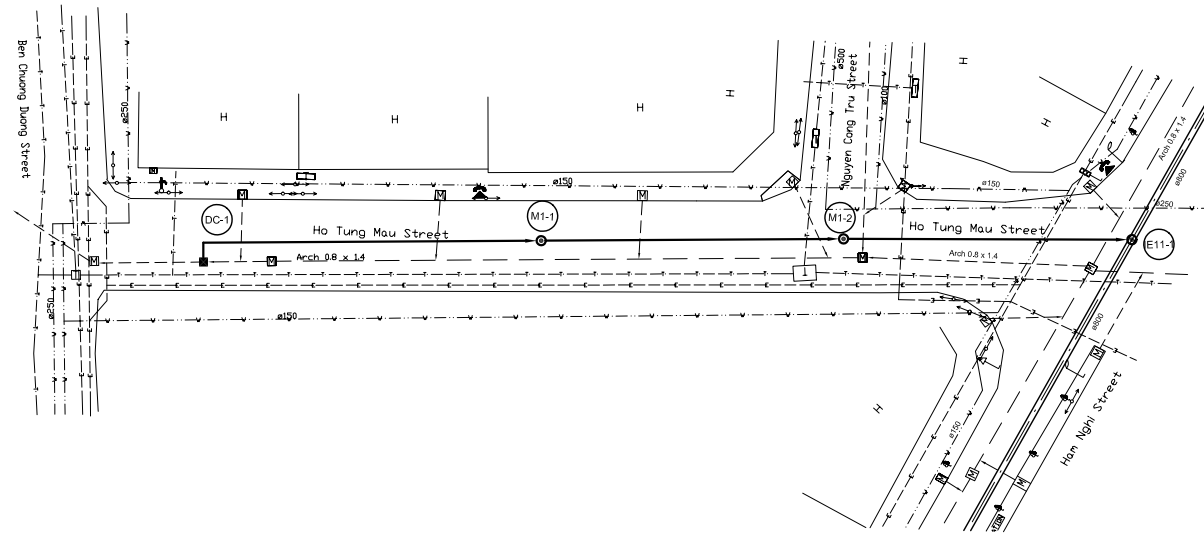
JAPAN INTERNATIONAL COOPERATION  
AGENCY ( JICA )

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED SATO NOBUYUKI	CHECKED KONDO MASAMI
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DATE : JUNE 2001      DWG. No. PC - ISC - 222

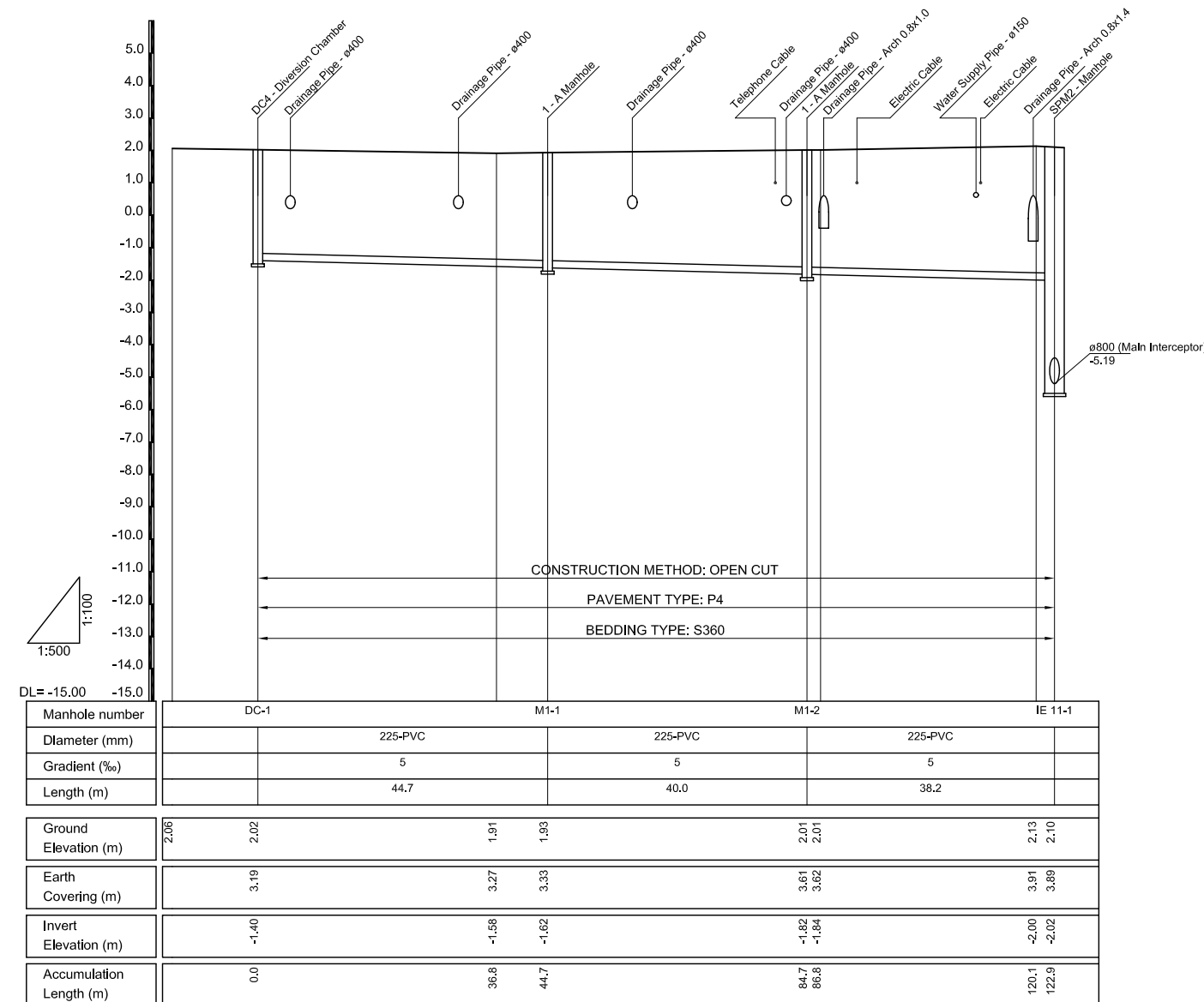
PLAN S = 1/500



LEGEND

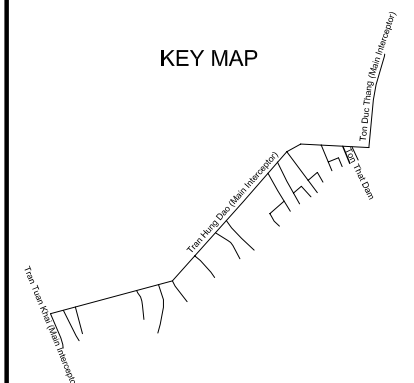
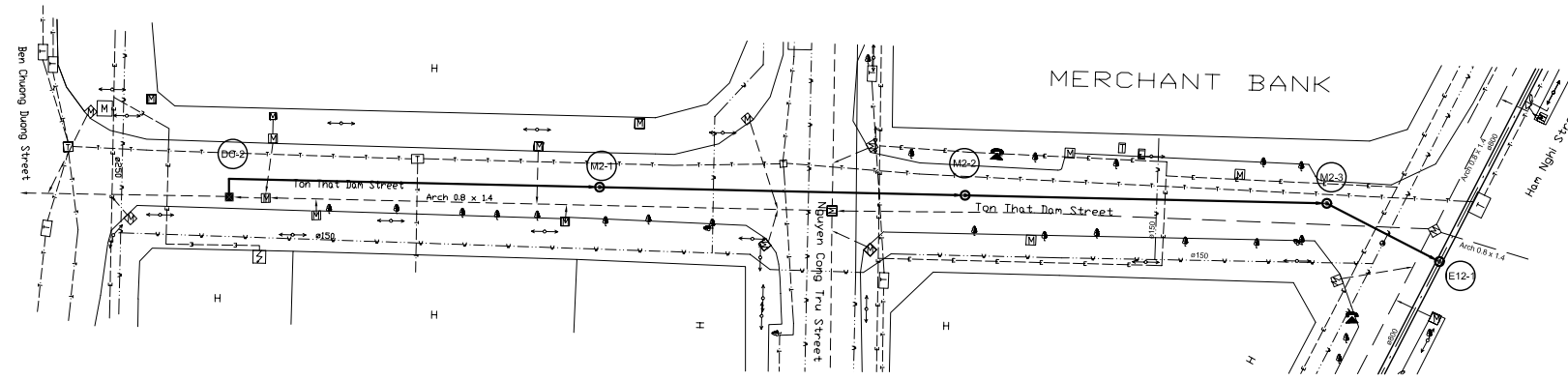
- Sewer Line
- Sewer Line
- Planted Sewer
- Existing Sewer
- Telephone Cable
- Water Pipe
- Outlet Without Flap Gate
- Outlet With Flap Gate
- Manhole
- Special Manhole
- Diversion Chamber
- Diversion Chamber with Manhole
- Existing Manhole
- Existing Inlet
- Telephone Cable Inspection Chamber
- Electric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

PROFILE SH = 1/500, Sv = 1/100



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 (1)				
SCALE : AS SHOWN				
JAPAN INTERNATIONAL COOPERATION AGENCY ( JICA )				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED SATO NOBUYUKI		CHECKED KONDO MASAMI		
DATE : JUNE 2001		DWG. No. PC - ISC - 223		

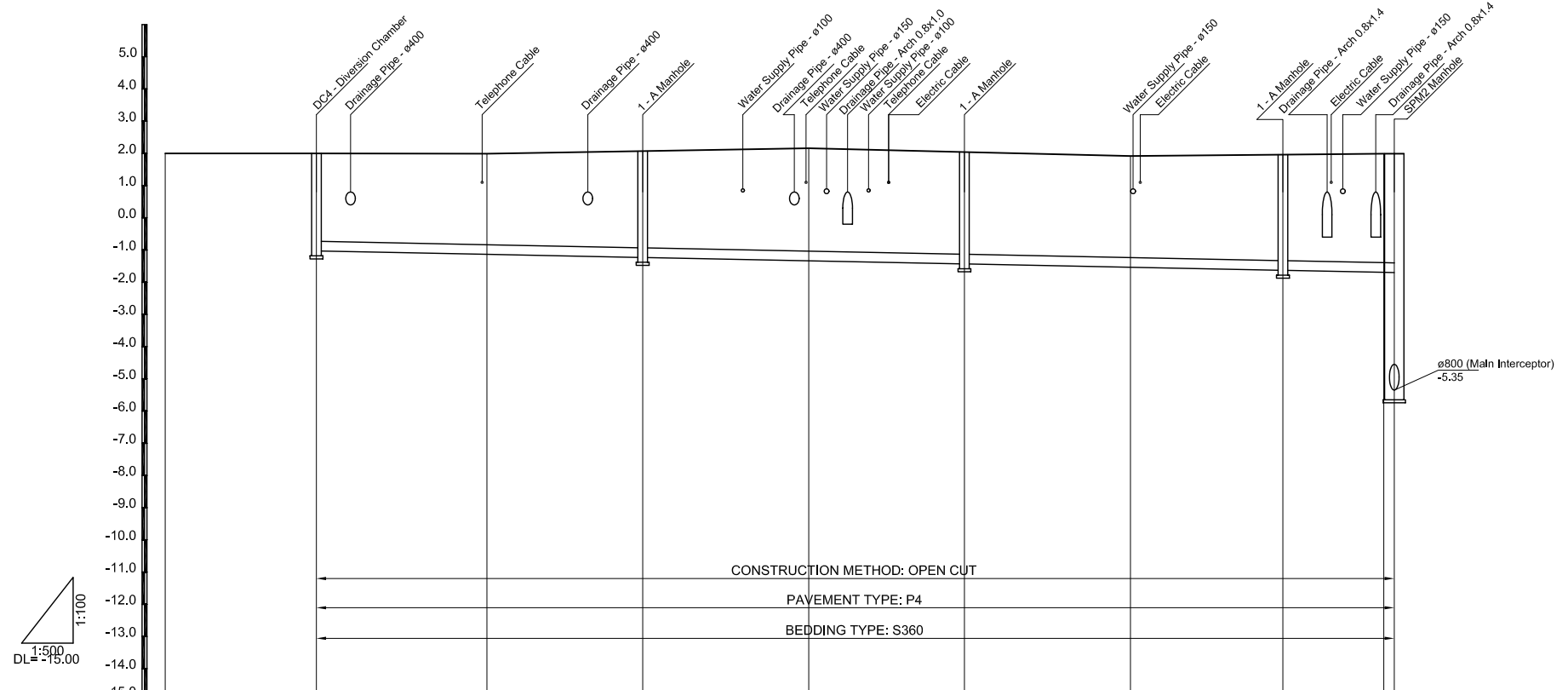
PLAN S = 1/500



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

PROFILE S<sub>H</sub> = 1/500, S<sub>V</sub> = 1/100



Manhole number	DC-2	M2-1	M2-2	M2-3	IE12-1
Diameter (mm)		Ø300	Ø300	Ø300	Ø300
Gradient(‰)		4	4	4	4
Length (m)		50.7	50.0	49.5	17.3
Ground Elevation (m)	2.00	2.00	1.99	2.07	2.16
Earth Covering (m)		2.73	2.83	3.00	3.20
Invert Elevation (m)		-1.03	-1.14	-1.23	-1.34
Accumulation Length (m)		0.0	50.7	76.5	100.7
					126.5
					150.2
					165.9
					167.5

NO.	DATE	DESCRIPTIONS	BY	APRO.
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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  
(2)

SCALE : AS SHOWN

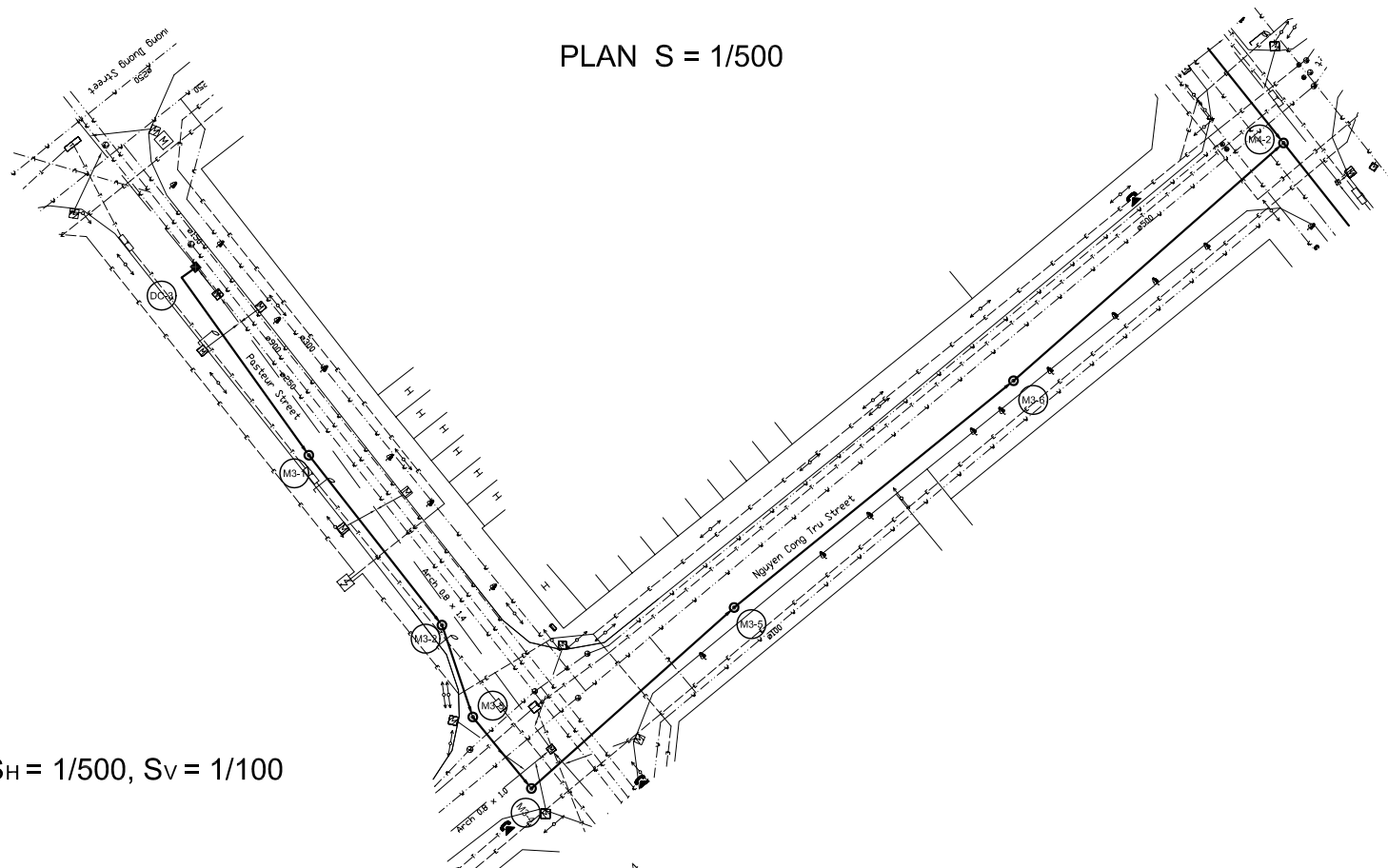
JICA JAPAN INTERNATIONAL COOPERATION AGENCY ( JICA )

PACIFIC CONSULTANTS INTERNATIONAL

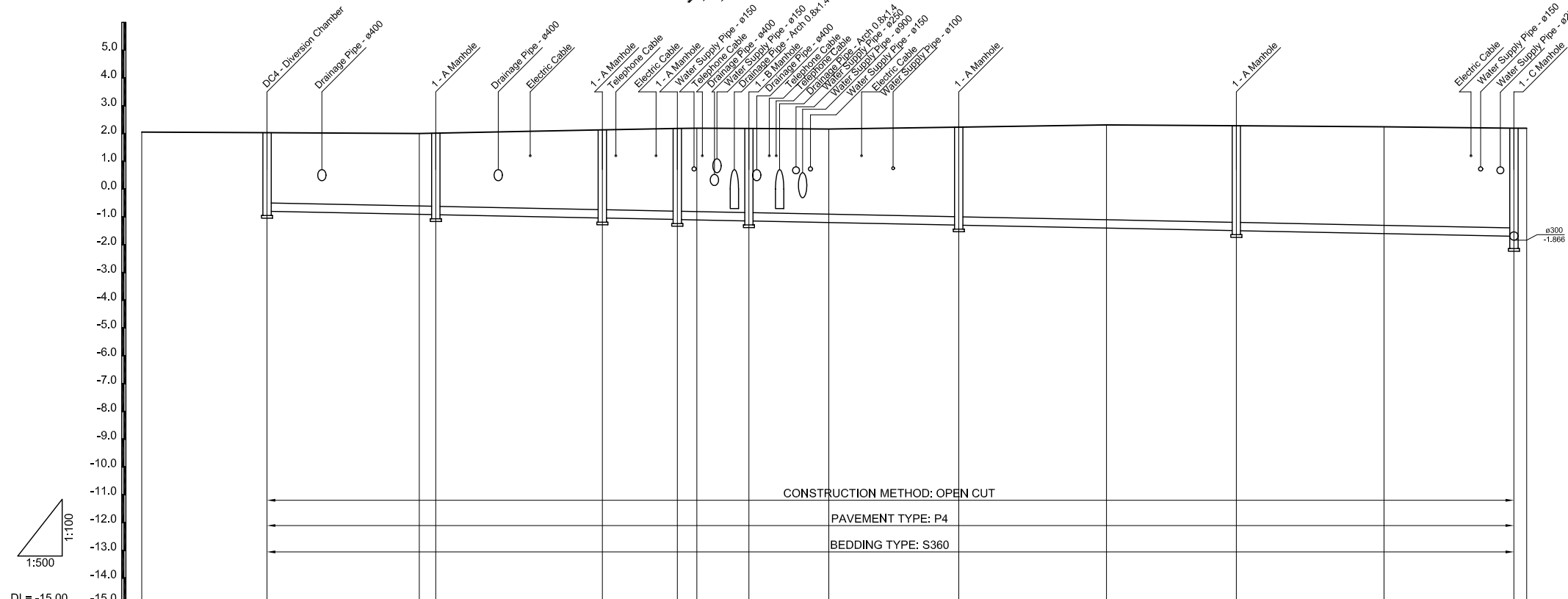
DESIGNED SATO NOBUYUKI  
CHECKED KONDO MASAMI

DATE : JUNE 2001 DWG. No. PC - ISC - 224

PLAN S = 1/500

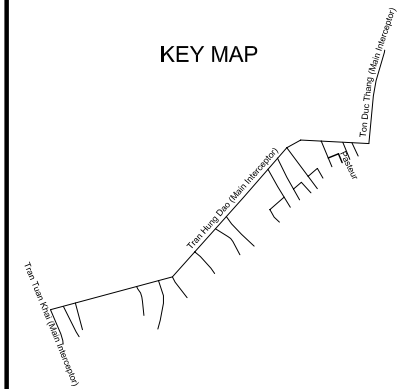


PROFILE SH = 1/500, SV = 1/100

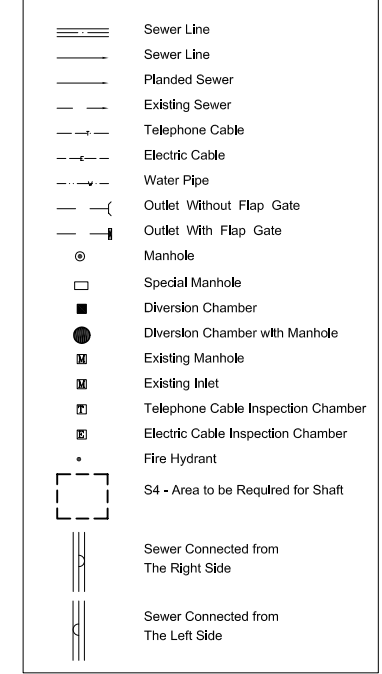


Manhole number	DC-3	M3-1	M3-2	M3-3	M3-4	M3-5	M3-6	M4-2
Diameter (mm)		Ø300	Ø300	Ø300	Ø300	Ø300	Ø300	Ø300
Gradient(%)		4	4	4	4	4	4	4
Length (m)		30.4	30.0	13.5	12.9	37.8	50.0	50.0
Ground Elevation (m)	2.05	2.03	2.00	2.01	2.13	2.18	2.19	2.18
Earth Covering (m)		2.53	2.61	2.63	2.87	2.18	2.16	2.23
Invert Elevation (m)		-0.80	-0.91	-0.92	-1.04	-1.10	-1.11	-1.15
Accumulation Length (m)		0.0	27.4	30.4	60.4	73.9	77.4	86.8
						101.2	124.6	151.2
								174.6
								201.2
								224.6

KEY MAP

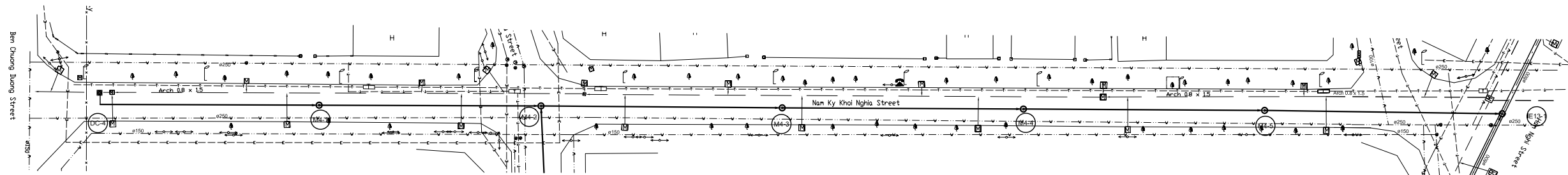


LEGEND

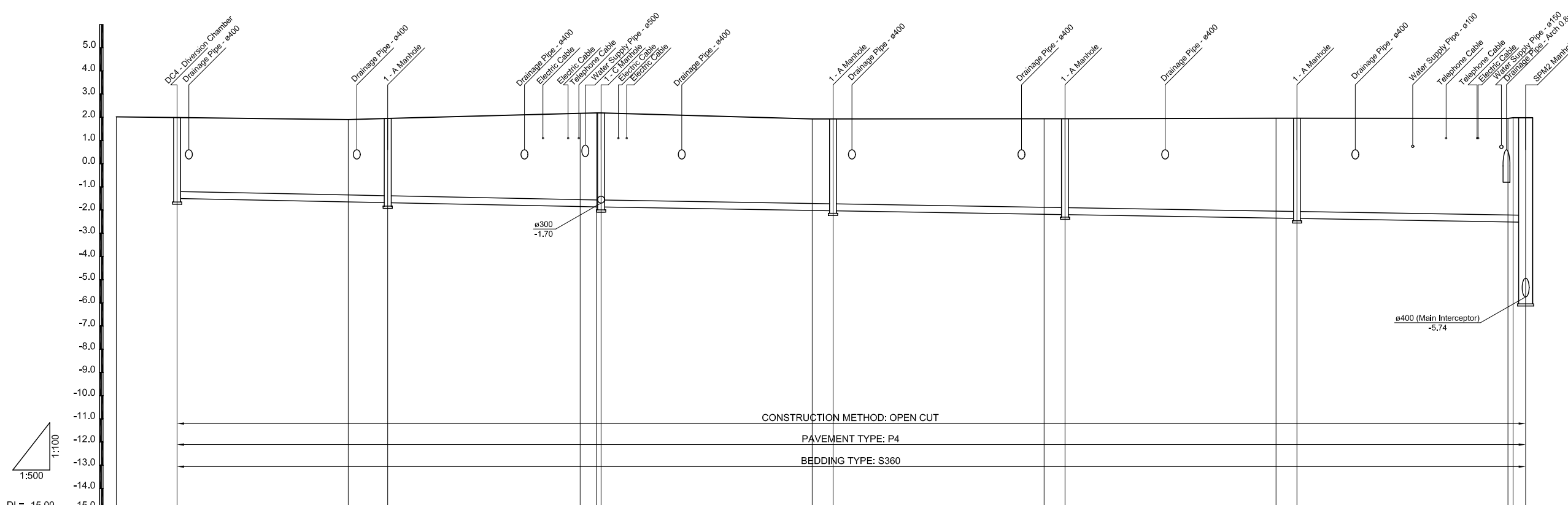


NO.	DATE	DESCRIPTIONS	BY	APRO.
REVISIONS				
PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT				
THE DETAILED DESIGN ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM				
PACKAGE C INTERCEPTOR SEWER CONSTRUCTION				
PLAN AND PROFILE OF SECONDARY INTERCEPTOR SEWER (3)				
SCALE : AS SHOWN				
JAPAN INTERNATIONAL COOPERATION AGENCY ( JICA )				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED SATO NOBUYUKI		CHECKED KONDO MASAMI		
DATE : JUNE 2001		DWG. No. PC - ISC - 225		

PLAN S = 1/500

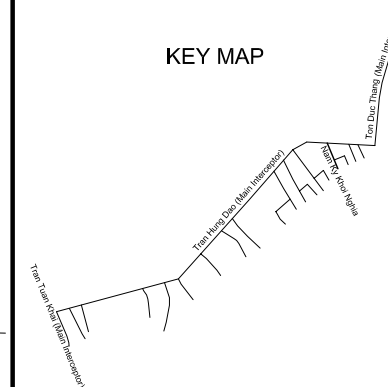


PROFILE S<sub>H</sub> = 1/500, S<sub>V</sub> = 1/100

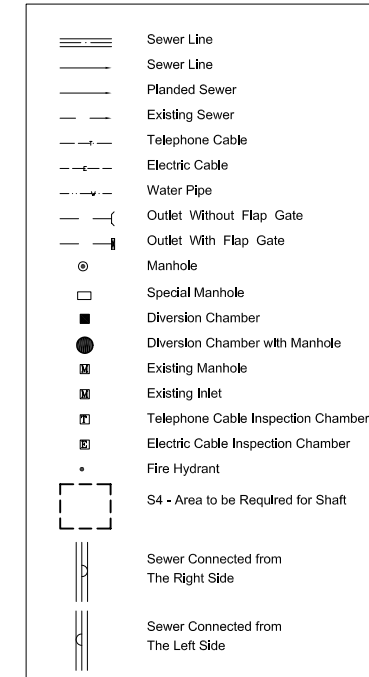


Manhole number	DC-1		M4-1		M4-2		M4-3		M4-4		M4-5		IE13-	
Diameter (mm)		Ø300		Ø300		Ø300		Ø300		Ø300		Ø300		Ø300
Gradient (%)		4.0		4.0		3.3		3.3		3.3		3.3		3.3
Length (m)		45.4		46.0		50.0		50.0		50.0		49.3		
Ground Elevation (m)	2.02	1.99	1.90	1.95	2.17	2.19	2.19	1.93	1.93	1.94	1.94	1.96	1.96	1.95
Earth Covering (m)		3.19	3.25	3.33	3.72	3.75	3.76	3.65	3.66	3.82	3.84	4.01	4.02	4.16
Invert Elevation (m)		-1.50	-1.65	-1.68	-1.85	-1.86	-1.87	-2.02	-2.03	-2.18	-2.20	-2.35	-2.36	-2.51
Accumulation Length (m)	0.0		36.9	45.4	86.9	90.4	91.4	136.9	141.4	186.9	191.4	236.9	241.4	286.9

KEY MAP



LEGEND



NO.	DATE	DESCRIPTIONS	BY	APRO.
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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  
(4)

SCALE : AS SHOWN

JICA JAPAN INTERNATIONAL COOPERATION AGENCY ( JICA )

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED: SATO NOBUYUKI  
CHECKED: KONDO MASAMI

DATE : JUNE 2001 DWG. No. PC - ISC - 226