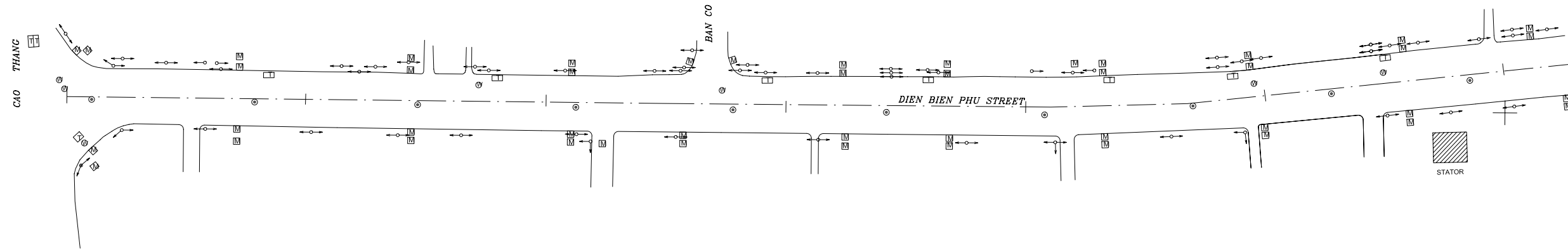


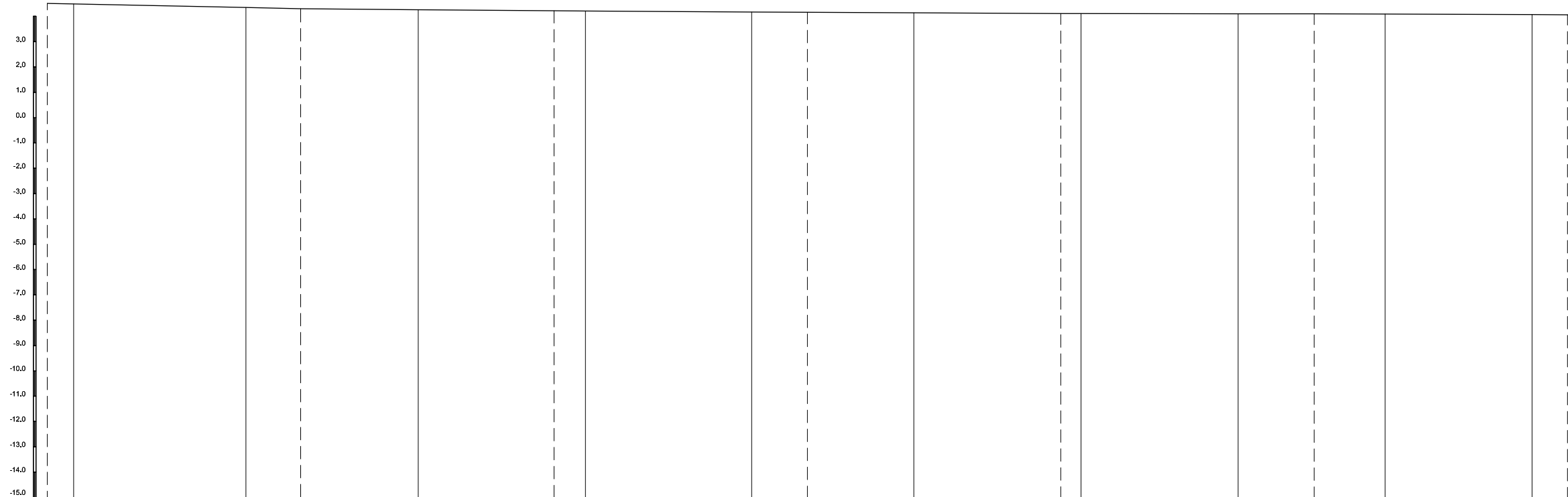
H. EXISTING COMBINED SEWER IMPROVEMENT

**DIEN BIEN PHU
STREET**

PLAN S = 1/500

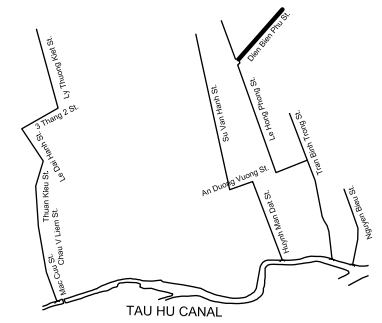


PROFILE S_H = 1/500, S_V = 1/100



Manhole Number																										
Diameter (mm)																										
Gradient (‰)																										
Length (m)																										
Existing Ground Elevation (m)	4.51	4.49		4.35	4.30		4.26		4.22	4.21		4.17	4.16		4.14		4.11	4.11		4.10	4.10		4.09		4.07	4.06
Earth Covering (m)																										
Invert Elevation (m)																										
Total Accumulation Length (m)	0.0		34.0	44.8		68.0		94.8	101.0		133.8	144.8		165.8		194.8	198.8		229.8	244.8		258.8		287.8	294.8	

KEYMAP



NO.	DATE	DESCRIPTIONS	BY	APPRO.
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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

PLAN AND LONGITUDINAL
SURVEY OF EXISTING
COMBINED SEWER ROUTE (1)

SCALE : As Shown

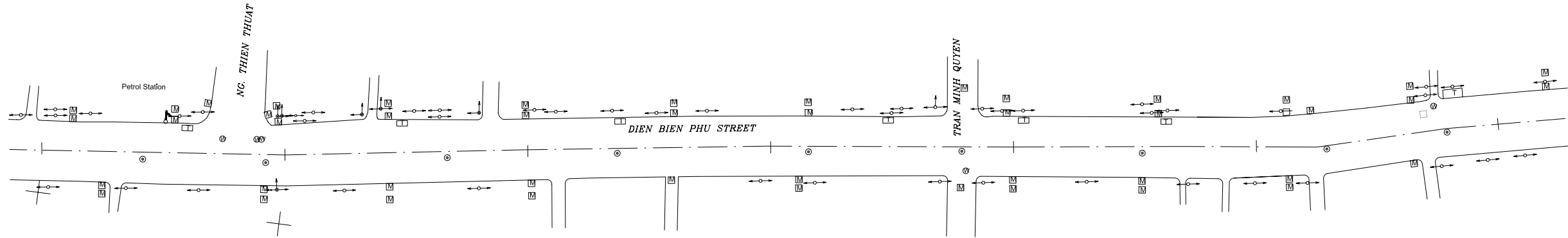
JICA JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

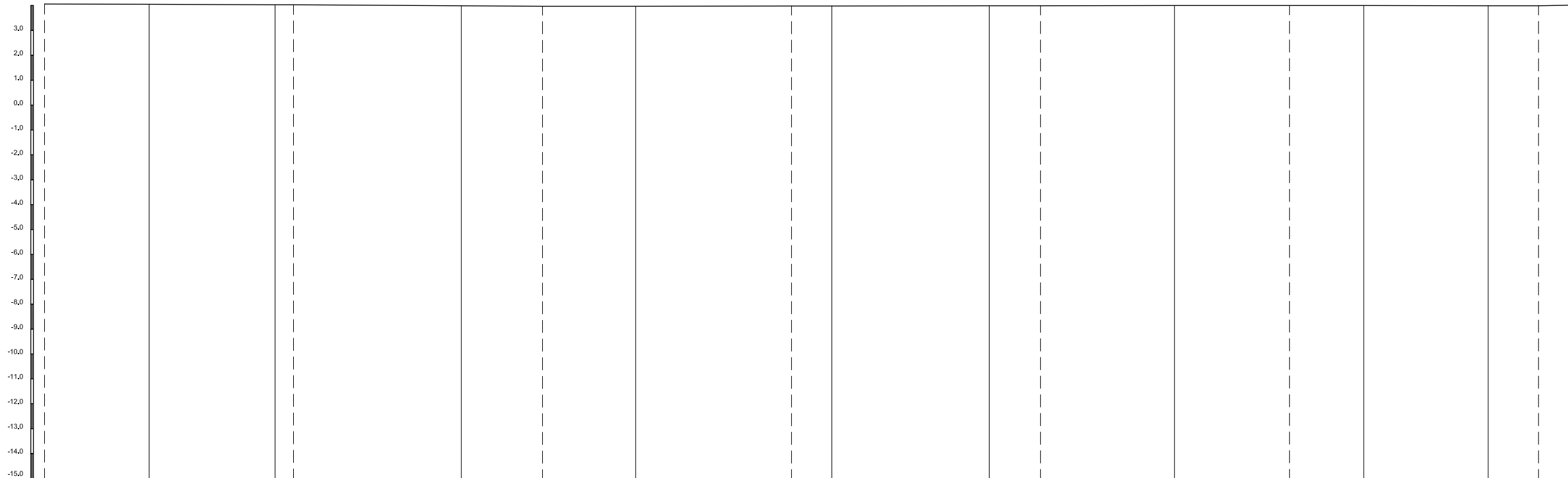
DESIGNED CHECKED

DATE : DWG. No.

PLAN S = 1/500

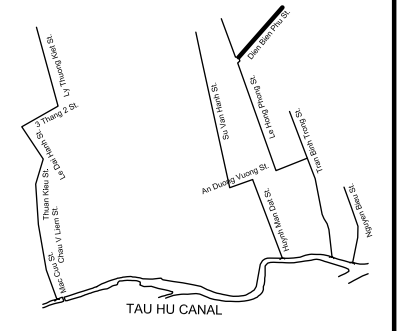


PROFILE S_H = 1/500, S_V = 1/100



Manhole Number																			
Diameter (mm)																			
Gradient (‰)																			
Length (m)																			
Existing Ground Elevation (m)	4.06	4.05	4.03	4.03	3.99	3.97	3.97	3.98	3.98	3.99	3.99	4.00	4.00	4.00	3.99	3.99			
Earth Covering (m)																			
Invert Elevation (m)																			
Total Accumulation Length (m)	294.8	315.8	341.1	344.8	378.5	394.8	413.5	444.8	452.9	484.5	494.8	521.7	544.8	559.7	584.7	594.8			

KEYMAP



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

**PLAN AND LONGITUDINAL
SURVEY OF EXISTING
COMBINED SEWER ROUTE (2)**

SCALE : As Shown

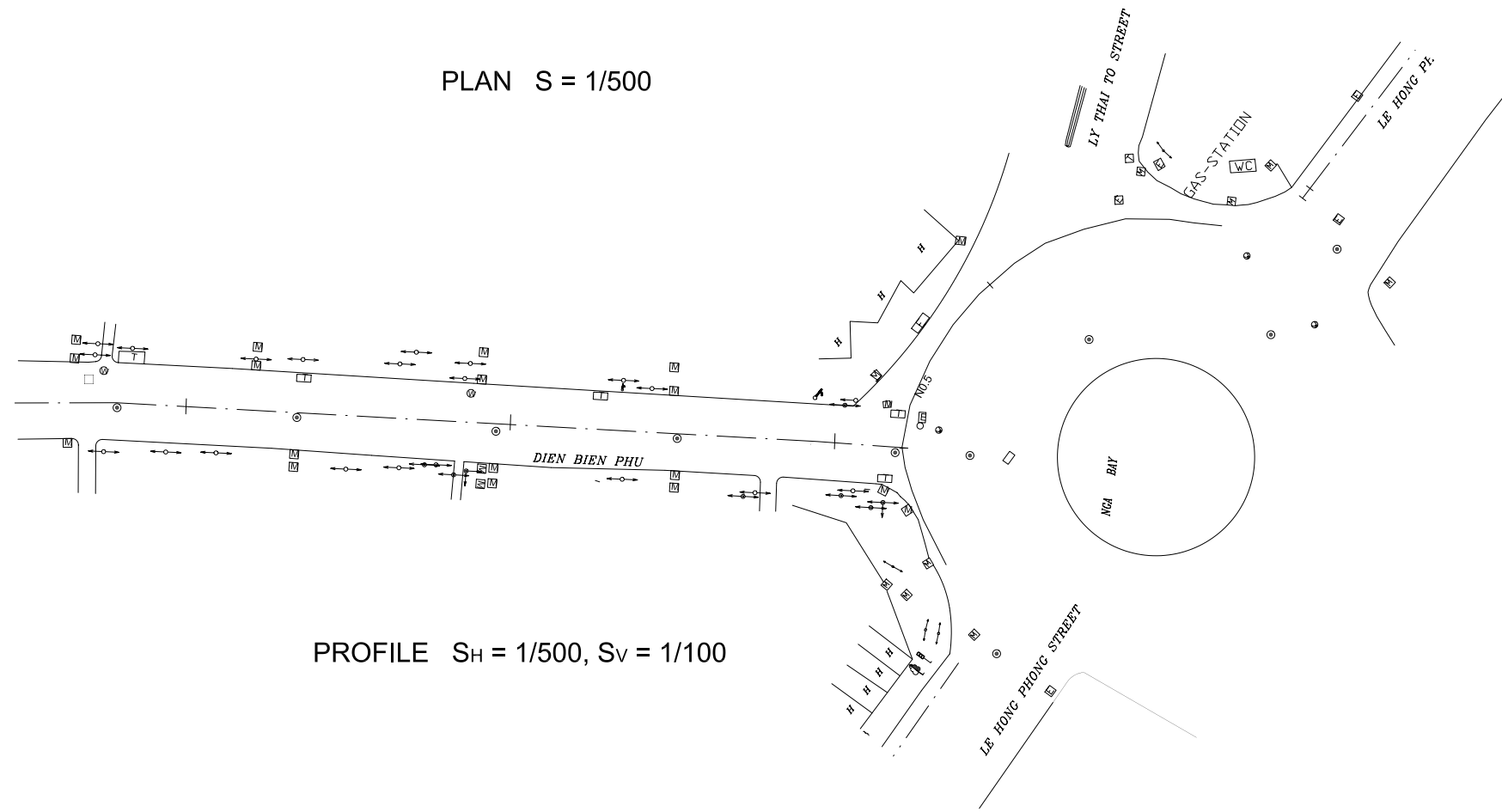
JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

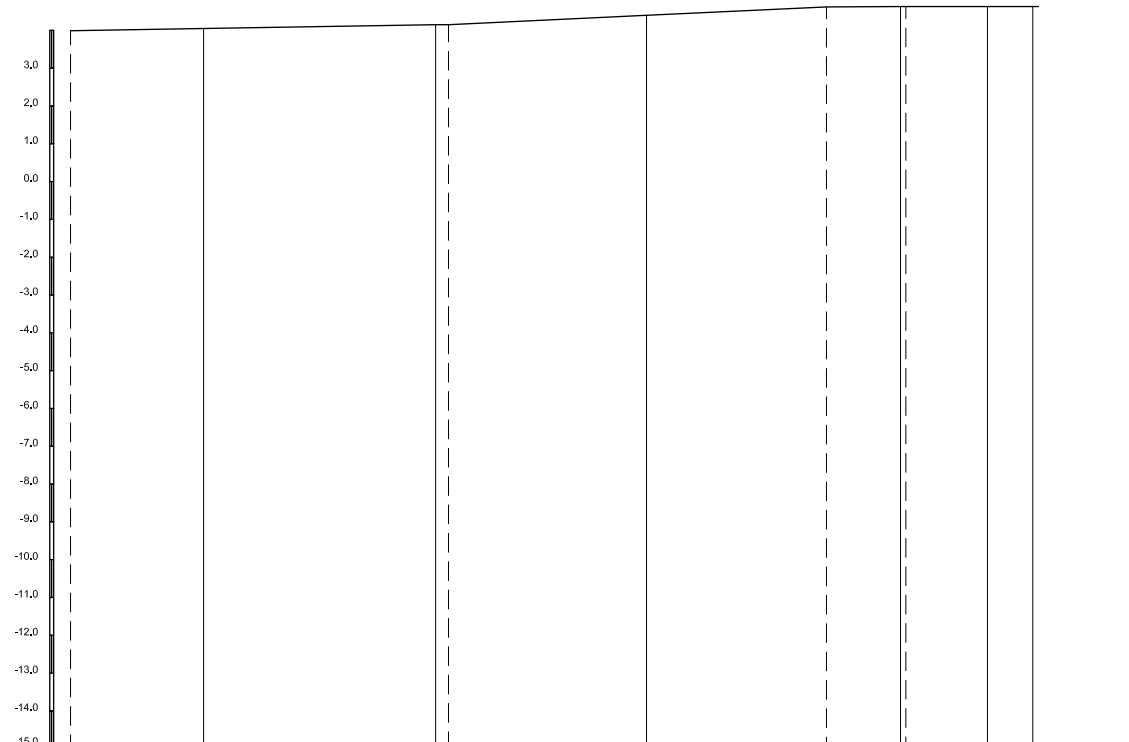
DESIGNED CHECKED

DATE : DWG. No.

PLAN S = 1/500

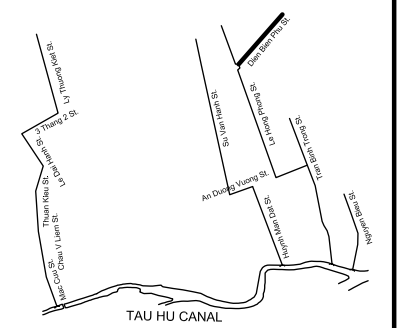


PROFILE SH = 1/500, Sv = 1/100



Manhole Number								
Diameter (mm)								
Gradient (‰)								
Length (m)								
Existing Ground Elevation (m)	3.99	4.05	4.15 4.15	4.40	4.62	4.63 4.63	4.63	4.63
Earth Covering (m)								
Invert Elevation (m)								
Total Accumulation Length (m)	594.8	612.4	643.1 644.8	671.0	694.8	704.6 705.3	716.1	722.1

KEYMAP



NO.	DATE	DESCRIPTIONS	BY	APPRO.
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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

PLAN AND LONGITUDINAL
SURVEY OF EXISTING
COMBINED SEWER ROUTE (3)

SCALE : As Shown

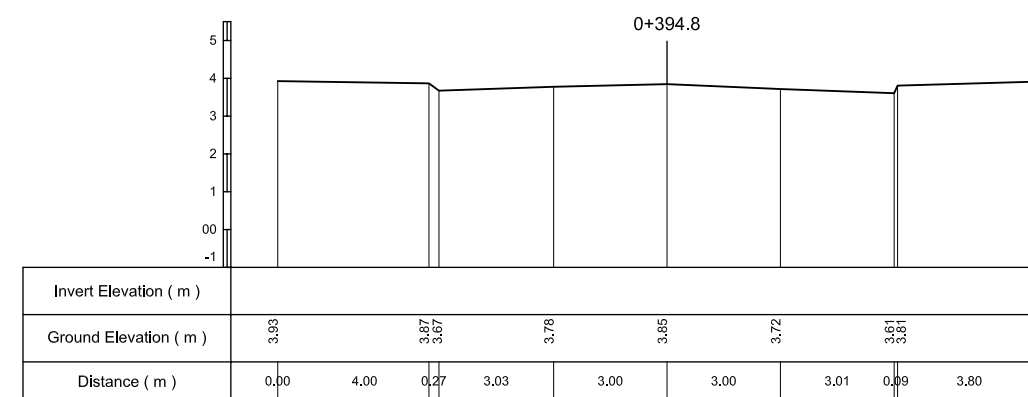
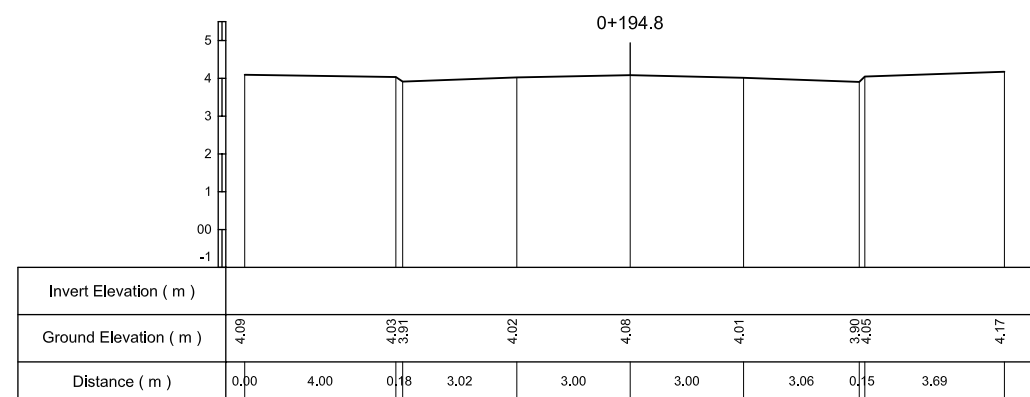
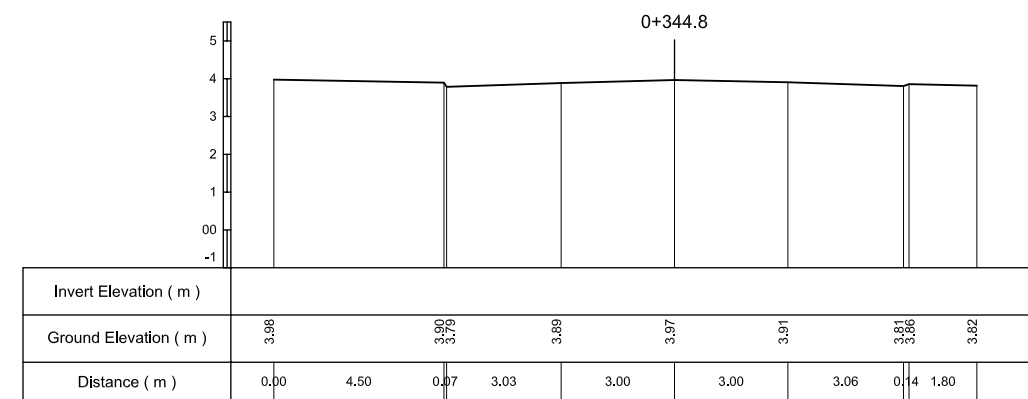
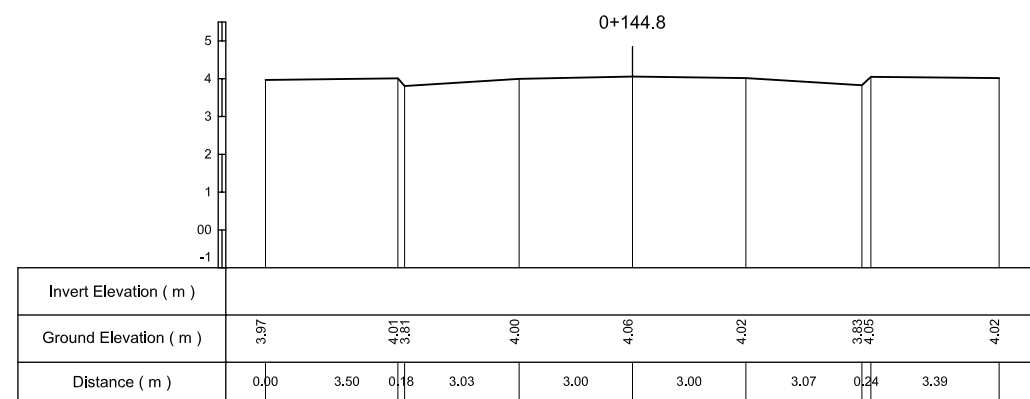
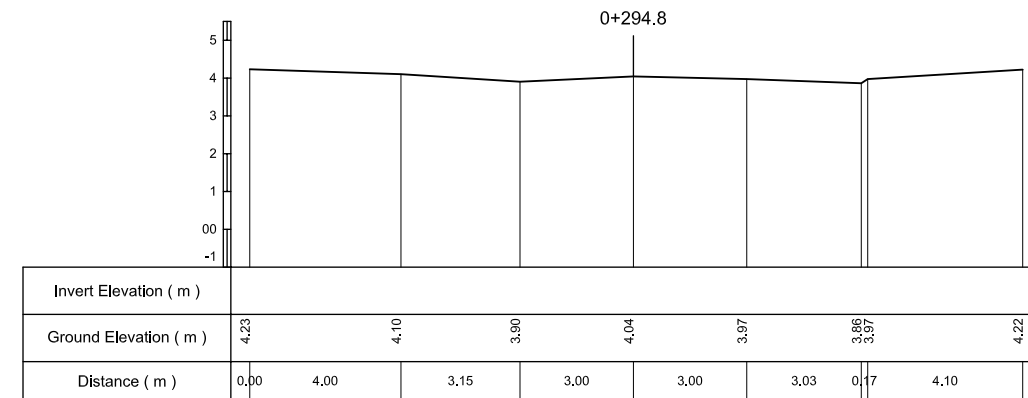
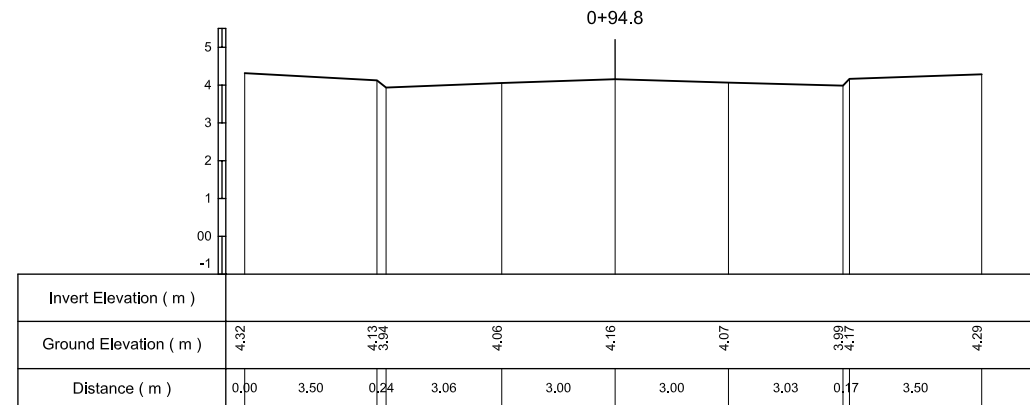
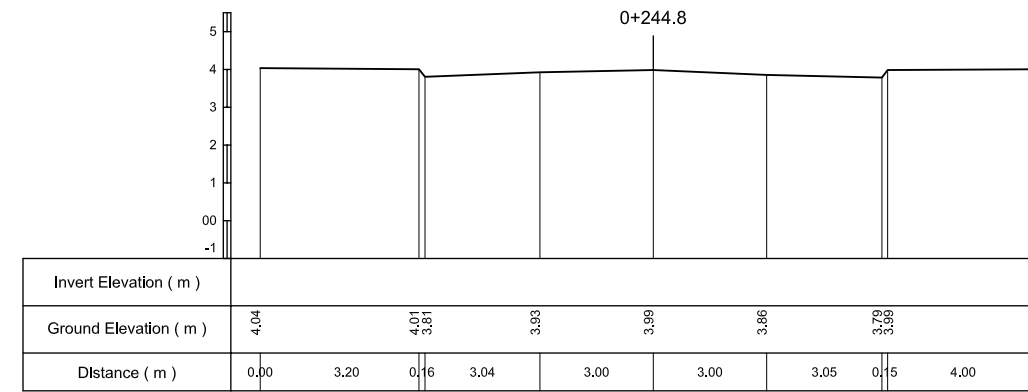
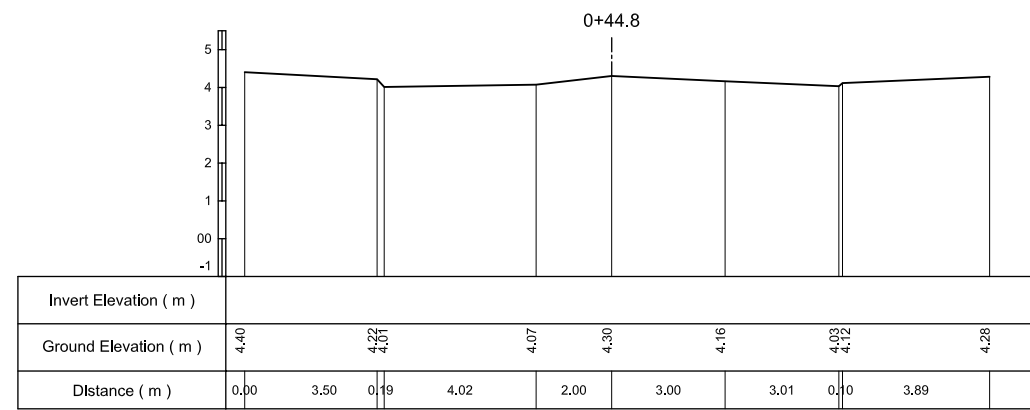
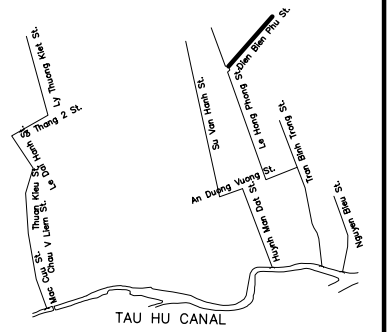
JICA JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED CHECKED

DATE : DWG. No.

KEYMAP



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

**CROSS SECTION SURVEY OF
EXISTING COMBINED SEWER
ROUTE (1)**

SCALE : 1 / 100

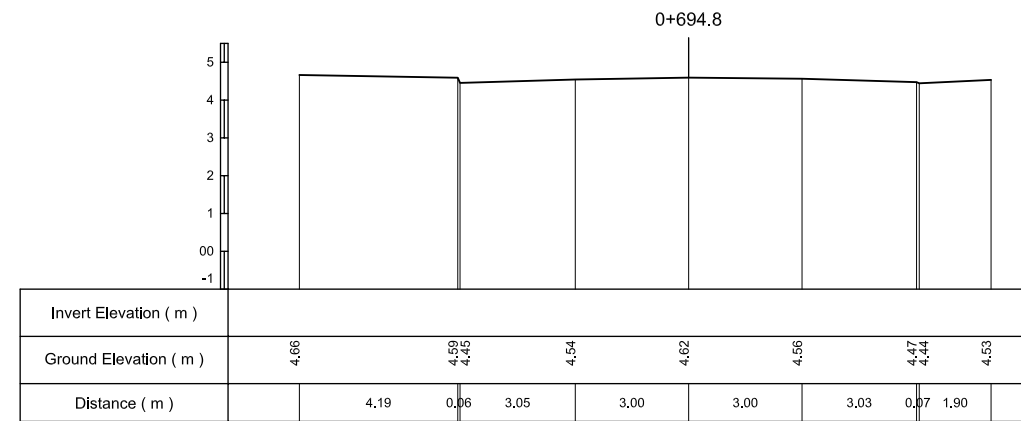
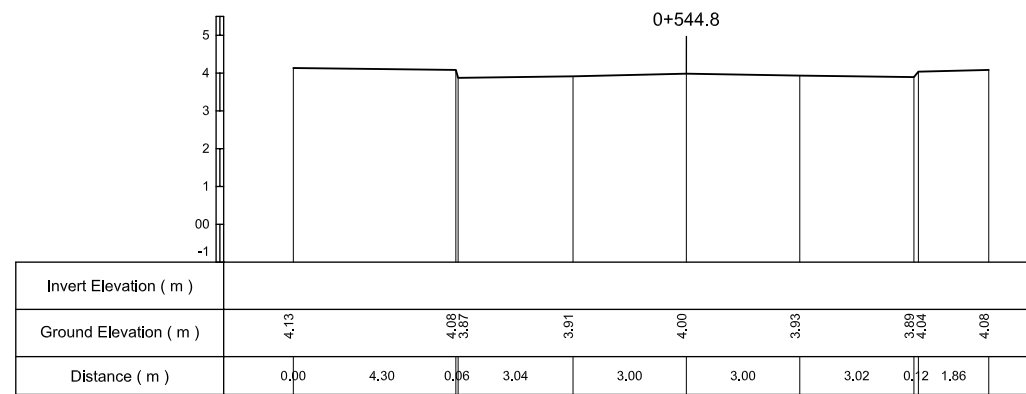
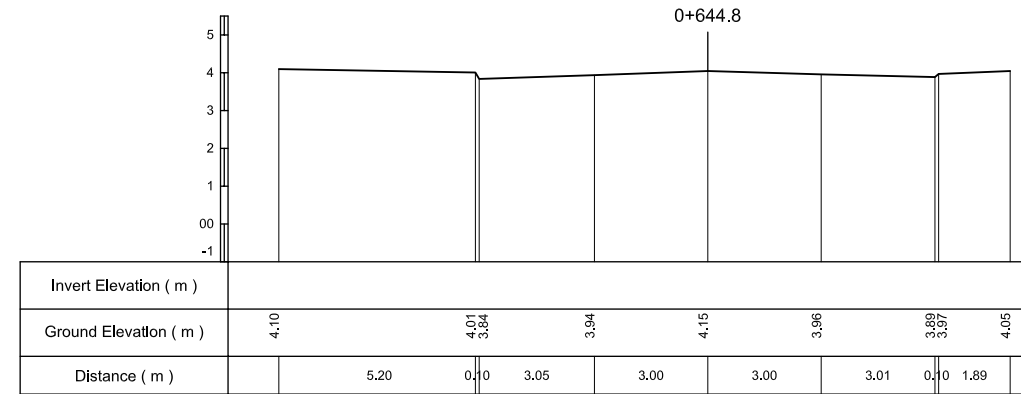
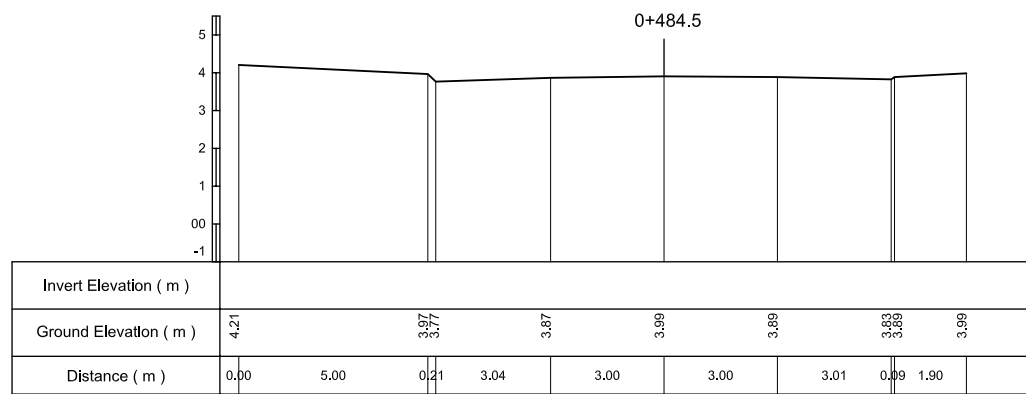
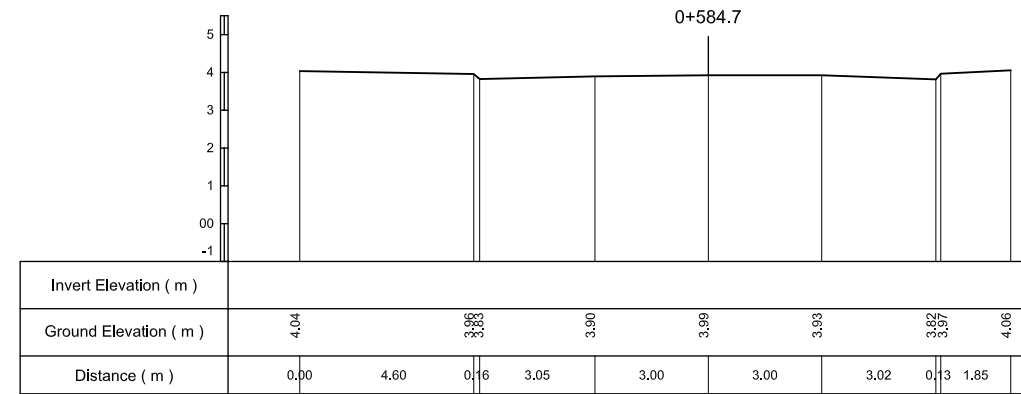
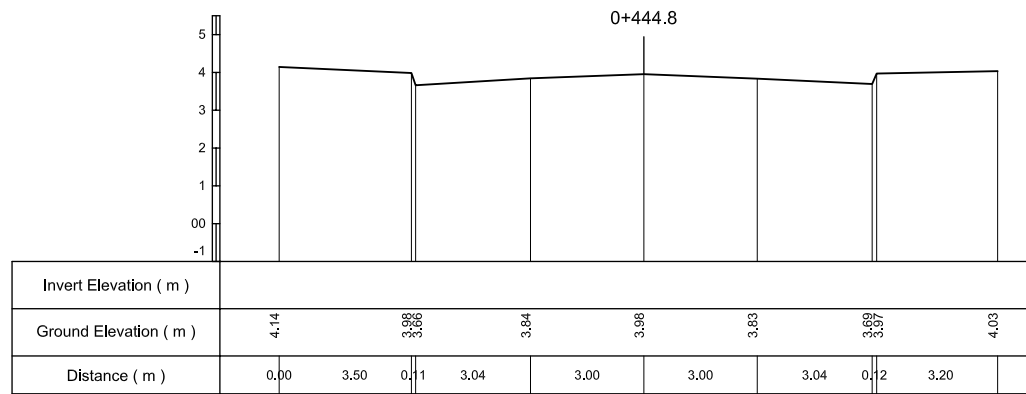
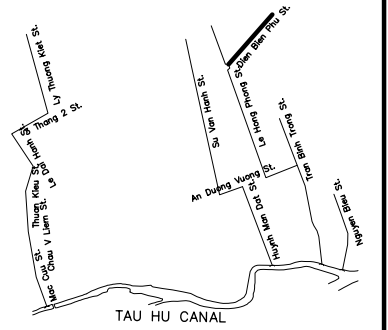
JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED _____ CHECKED _____

DATE : _____ DWG. No. _____

KEYMAP



NO.	DATE	DESCRIPTIONS	BY	APPRO.
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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

CROSS SECTION SURVEY OF
EXISTING COMBINED SEWER
ROUTE (2)

SCALE : 1 / 100

JICA JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

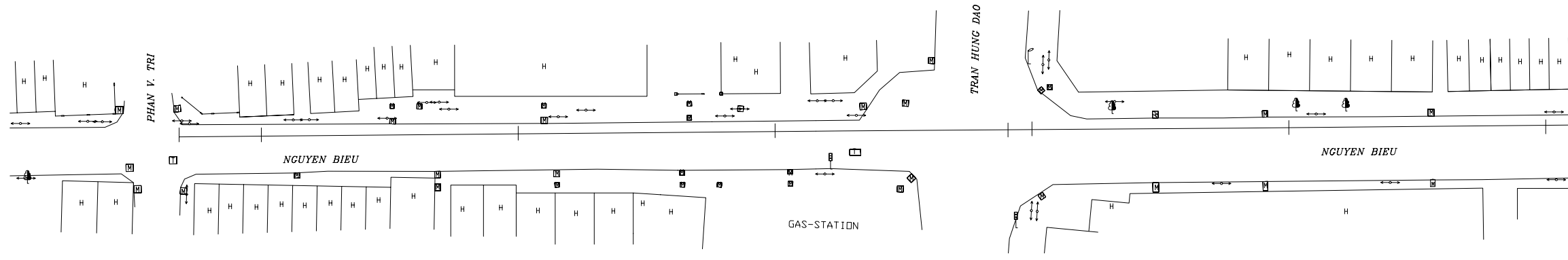
PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED CHECKED

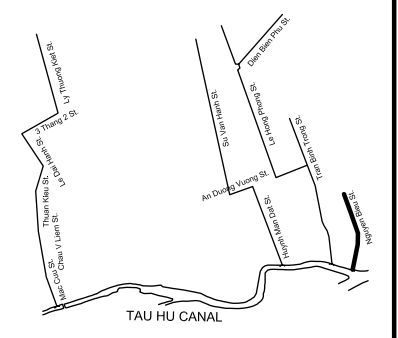
DATE : DWG. No.

**NGUYEN BIEU
STREET**

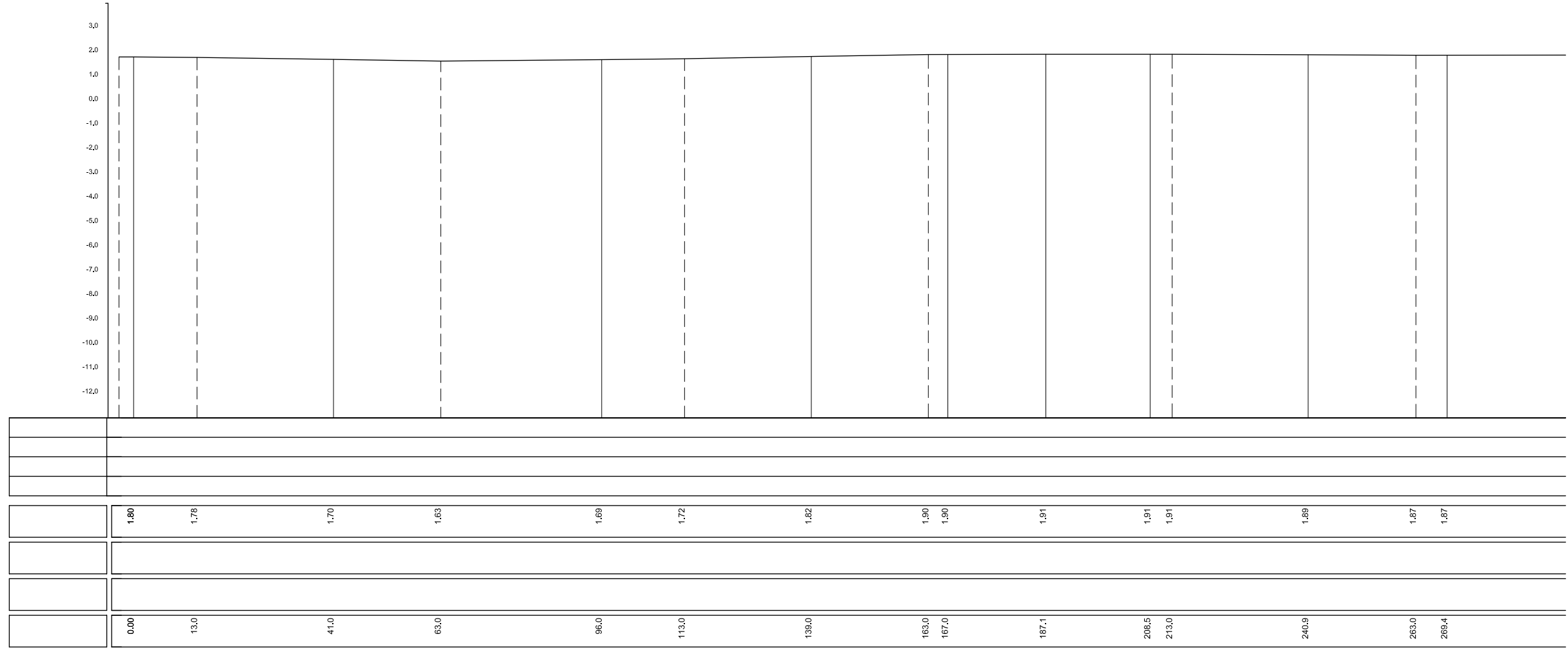
PLAN S = 1/500



KEYMAP



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



NO.	DATE	DESCRIPTIONS	BY	APRO.
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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

PLAN AND LONGITUDINAL
SURVEY OF EXISTING
COMBINED SEWER ROUTE (1)

SCALE : AS SHOWN

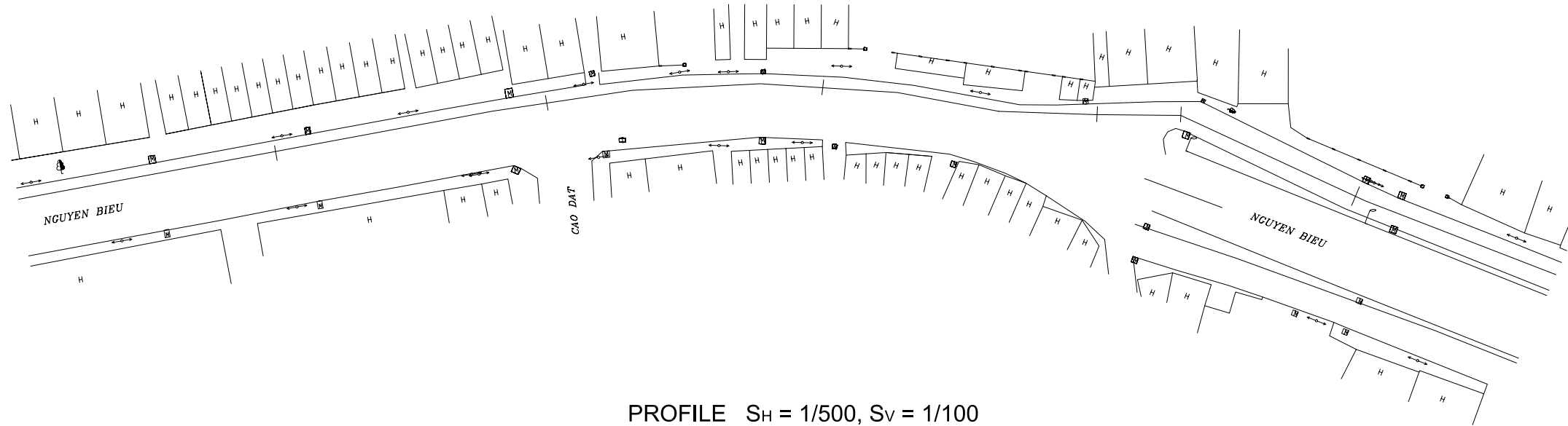
JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

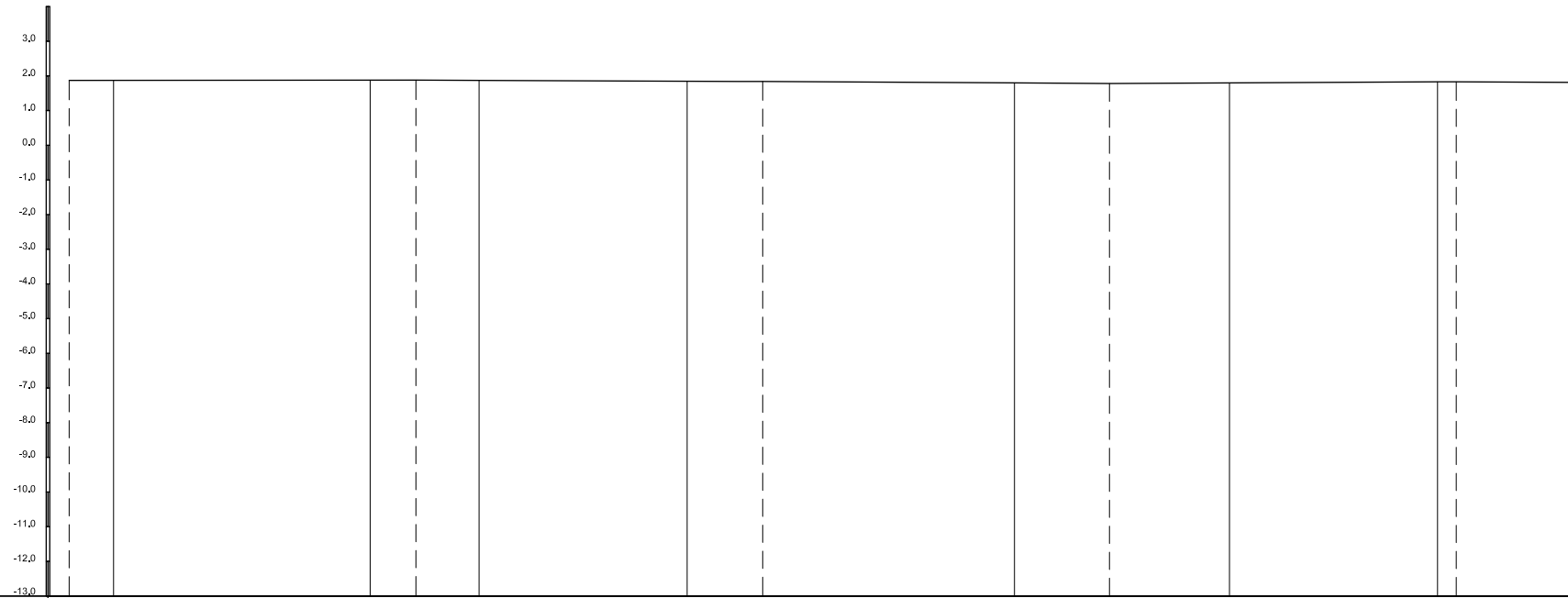
DESIGNED _____ CHECKED _____

DATE : _____ DWG. No. _____

PLAN S = 1/500

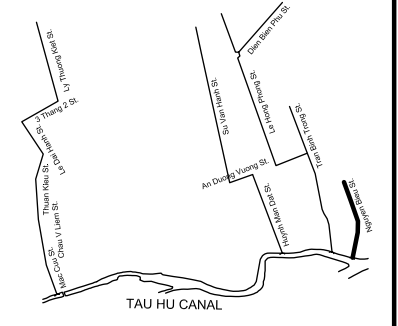


PROFILE S_H = 1/500, S_V = 1/100



Manhole Number													
Diameter (mm)													
Gradient (‰)													
Length (m)													
Existing Ground Elevation (m)	1.87	1.87	1.88	1.88	1.87	1.85	1.84	1.80	1.78	1.80	1.83	1.83	
Earth Covering (m)													
Invert Elevation (m)													
Total Accumulation Length (m)	263.0	269.4	306.4	313.0	322.1	352.1	363.0	399.3	413.0	430.3	460.3	463.0	

KEYMAP



NO.	DATE	DESCRIPTIONS	BY	APRO.
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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

PLAN AND LONGITUDINAL
SURVEY OF EXISTING
COMBINED SEWER ROUTE (2)

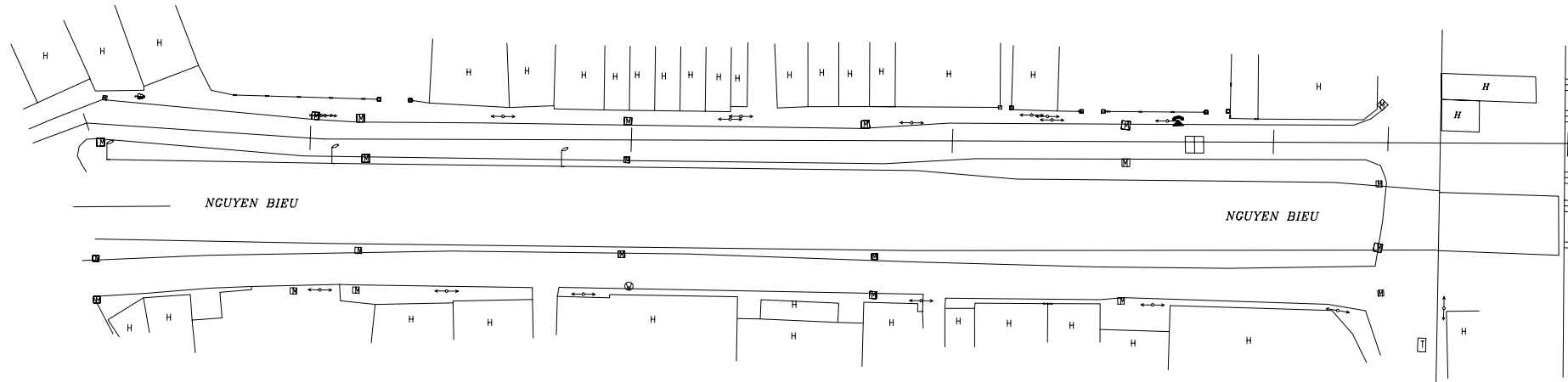
SCALE : AS SHOWN

JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

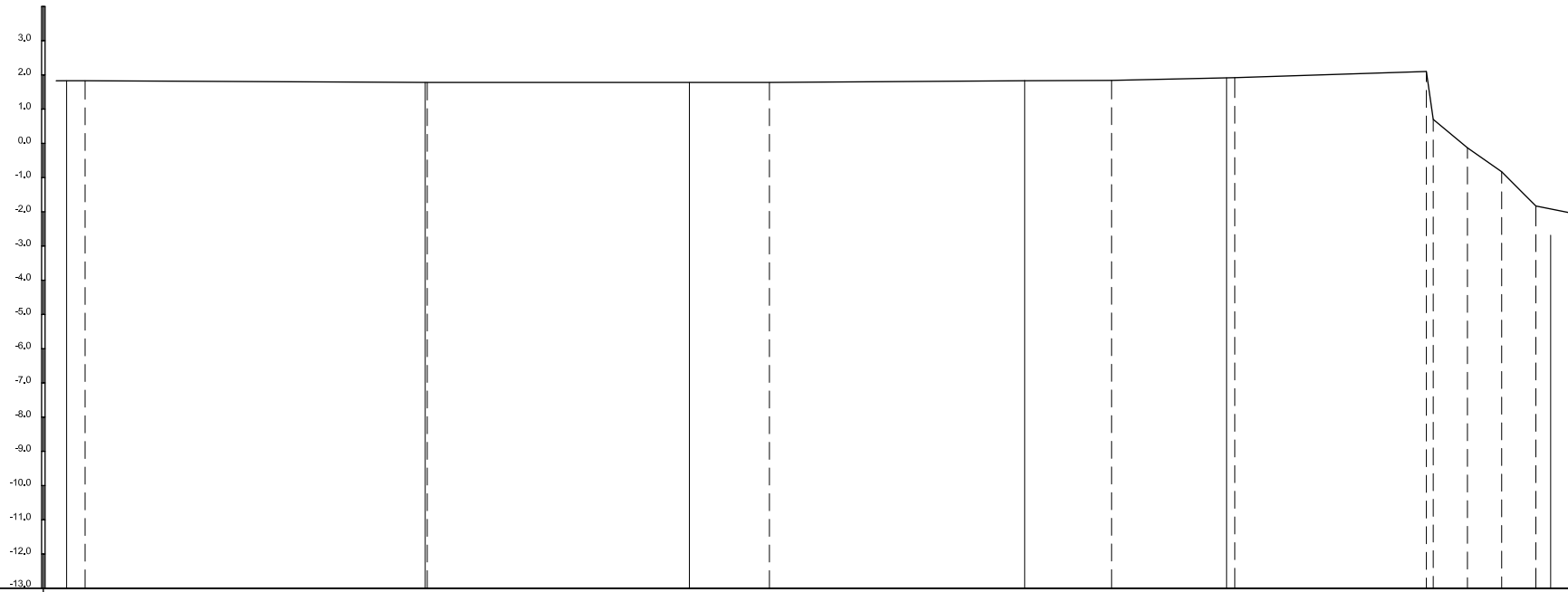
PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED	CHECKED
DATE :	DWG. No.

PLAN S = 1/500

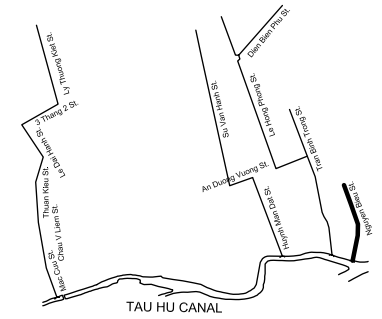


PROFILE S_H = 1/500, S_V = 1/100



Manhole Number																	
Diameter (mm)																	
Gradient (%)																	
Length (m)																	
Existing Ground Elevation (m)	1.83	1.83	1.78	1.78	1.78	1.83	1.84	1.91	1.92	2.10	0.70	-0.13	-0.83	-1.83	-1.87	-2.03	
Earth Covering (m)																	
Invert Elevation (m)																	
Total Accumulation Length (m)	480.3	483.0	512.7	513.0	551.3	563.0	600.3	613.0	629.8	631.0	659.0	660.0	665.0	670.0	675.0	677.2	680.0

KEYMAP



NO.	DATE	DESCRIPTIONS	BY	APRO.
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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

PLAN AND LONGITUDINAL
SURVEY OF EXISTING
COMBINED SEWER ROUTE (3)

SCALE : AS SHOWN

JICA JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED CHECKED

DATE : DWG. No.