

LAMPIRAN 9

Data Penyelidikan Tanah

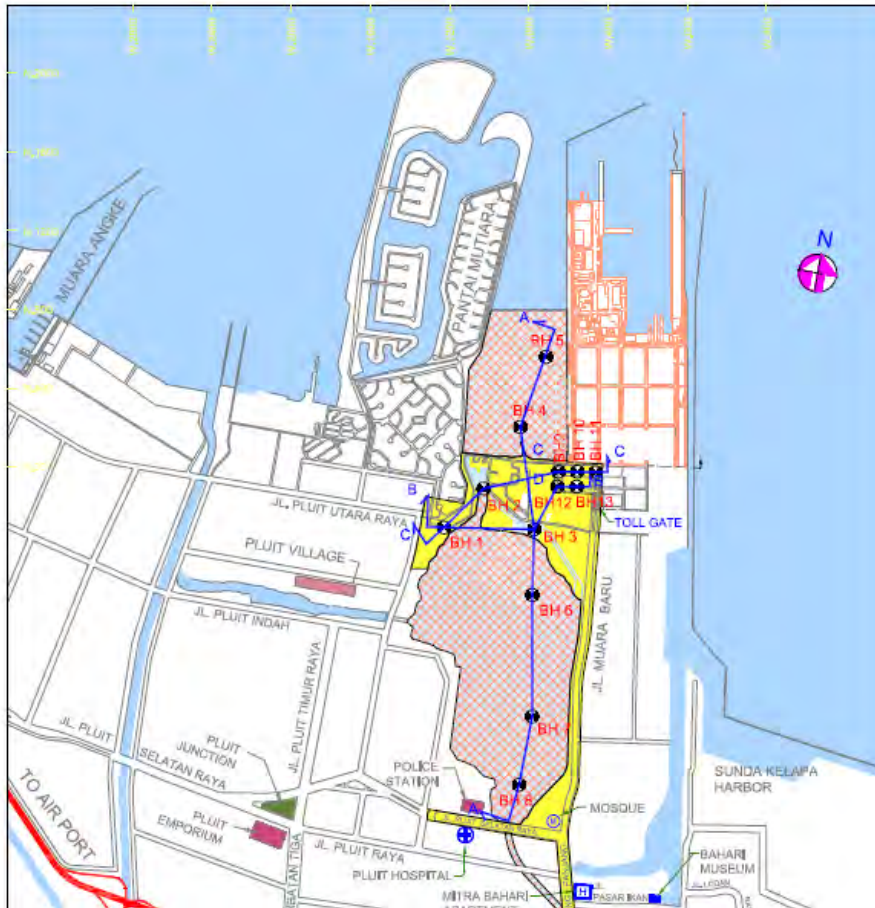


Fig. 9-1 Location of Soil Boring and Orientation of Soil Profiles

FIG DRILLING LOG														
Project No. 2304		Project On-Shore S for Wholesale Dist. Market Development in Muara Baru		Type of Drilling Wash Bore		Date 25 Nov - 1 Apr 2021		Remarks P : Standard Penetration Test SIS : Open-Shore Undisturbed Sampling S : SBR02/20 T : IS20K02/06						
Hole Number BH-1 (PAZ 1 of 2)		Elevation 4.6530 m		Driller		Ref (No)								
Water Table 4.67 m		Elevation 4.6530 m		Driller		Ref (No)								
Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Soil Density or Consistency	General Remarks	Sampling					
									Depth in m	Sample No.	N-Value (Blows/30cm)	Blows Per Reach 10 cm	N - Value	
										10	20	30	40	50
1	-1.17	1.50	1.50		Silty Clay	Reddish Brown	Very Soft	Fill material						
2					Silty Clay	Dark Gray to Black	Very Soft	With decomposed wood at top portion. With top shell fragment from 0.50m to 1.00m. With a lot of fine gravel sand at bottom portion.						
3					Silty Clay	Dark Gray to Black	Very Soft							
4					Silty Clay	Dark Gray to Black	Very Soft							
5					Silty Clay	Dark Gray to Black	Very Soft							
6					Silty Clay	Dark Gray to Black	Very Soft							
7					Silty Clay	Dark Gray to Black	Very Soft							
8					Silty Clay	Dark Gray to Black	Very Soft							
9					Silty Clay	Dark Gray to Black	Very Soft							
10					Blank Clay									
11	-38.01	13.30	8.30		Silty Clay	Reddish Brown	Medium	With the gravel sand at 0.10m to 1.30m. Weakly cemented.						
12					Silty Clay	Reddish Brown	Medium							
13					Silty Clay	Reddish Brown	Medium							
14					Silty Clay	Reddish Brown	Medium							
15					Silty Clay	Reddish Brown	Medium							
16					Silty Clay	Reddish Brown	Medium							
17					Silty Clay	Reddish Brown	Medium							
18					Silty Clay	Reddish Brown	Medium							
19	-39.11	16.50	7.50		Clayey Silty	Dark Gray Brown	Hard	With fine gravel sand. Weakly cemented. Surface with no local fragment of 0.2-0.30m. With a lot of fine gravel at 0.200m to 0.40m.						
20					Clayey Silty	Dark Gray Brown	Hard							
21					Clayey Silty	Dark Gray Brown	Hard							
22					Clayey Silty	Dark Gray Brown	Hard							
23					Clayey Silty	Dark Gray Brown	Hard							
24					Clayey Silty	Dark Gray Brown	Hard							
25					Clayey Silty	Dark Gray Brown	Hard							
26	-25.06	25.45	6.93		Silty Clay	Greenish Gray	Stiff to Very Stiff	Spalled with no shell fragment from 0.200m to 0.40m and 0.200m to 0.40m. Surface with some fine 0.2-0.30m to 0.40m. Weakly cemented.						
27					Silty Clay	Greenish Gray	Stiff to Very Stiff							
28					Silty Clay	Greenish Gray	Stiff to Very Stiff							
29					Silty Clay	Greenish Gray	Stiff to Very Stiff							
30					Silty Clay	Greenish Gray	Stiff to Very Stiff							
31	-38.06	38.45	11.00		Silty Clay	Greenish Gray	Stiff to Very Stiff							

Fig. 9-2 (1) BH-1 Drilling Log

FIG DRILLING LOG														
Project No. 2304		Project On-Shore S for Wholesale Dist. Market Development in Muara Baru		Type of Drilling Wash Bore		Date 25 Nov - 1 Apr 2021		Remarks P : Standard Penetration Test SIS : Open-Shore Undisturbed Sampling S : SBR02/20 T : IS20K02/06						
Hole Number BH-1 (PAZ 2 of 2)		Elevation 4.6530 m		Driller		Ref (No)								
Water Table 4.67 m		Elevation 4.6530 m		Driller		Ref (No)								
Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Soil Density or Consistency	General Remarks	Sampling					
									Depth in m	Sample No.	N-Value (Blows/30cm)	Blows Per Reach 10 cm	N - Value	
										10	20	30	40	50
31					Silty Clay	Greenish Gray	Stiff to Very Stiff	Spalled with no shell fragment from 0.200m to 0.40m and 0.200m to 0.40m. Surface with some fine 0.2-0.30m to 0.40m. Weakly cemented.						
32					Silty Clay	Greenish Gray	Stiff to Very Stiff							
33					Silty Clay	Greenish Gray	Stiff to Very Stiff							
34					Silty Clay	Greenish Gray	Stiff to Very Stiff							
35					Silty Clay	Greenish Gray	Stiff to Very Stiff							
36					Silty Clay	Greenish Gray	Stiff to Very Stiff							
37	-38.06	38.45	11.00		Clayey Silty	Greenish Gray	Very Stiff to Hard	Sand to fine to medium grained. Weakly to moderately cemented.						
38					Clayey Silty	Greenish Gray	Very Stiff to Hard							
39					Clayey Silty	Greenish Gray	Very Stiff to Hard							
40					Clayey Silty	Greenish Gray	Very Stiff to Hard							
41	-40.06	40.45	4.00		-END OF DRILLING-									
42														
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Fig. 9-2 (2) BH-1 Drilling Log

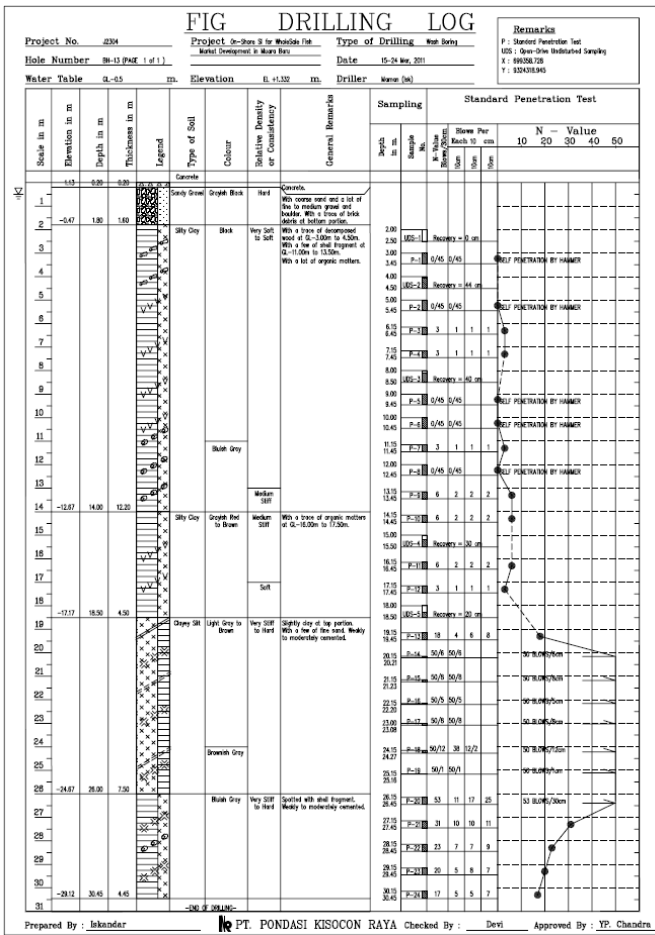


Fig. 9-14 BH-13 Drilling Log

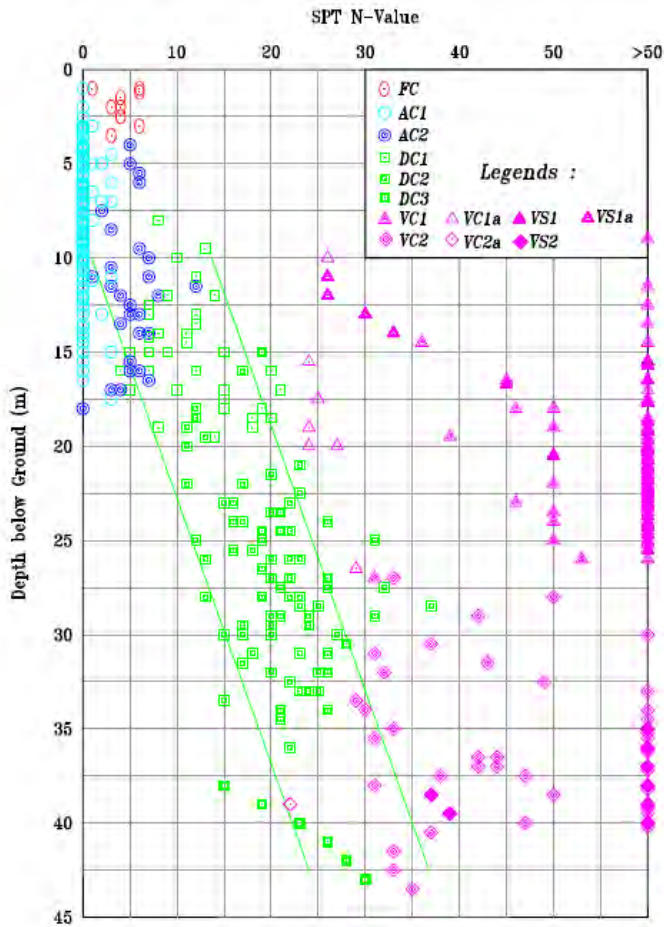


Fig. 9-15 Standard Penetration Test N-Value

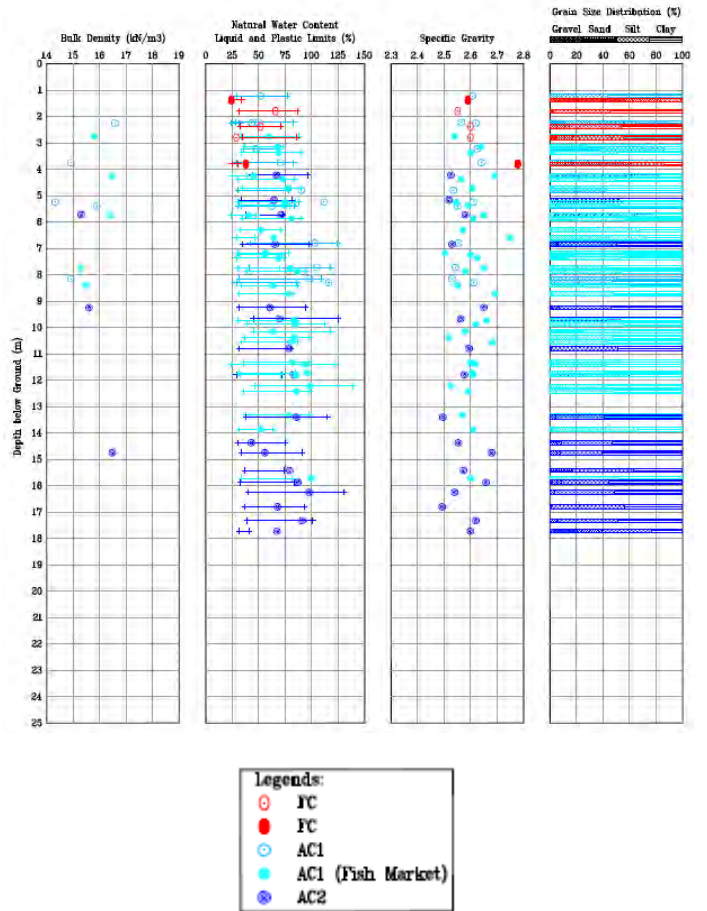


Fig. 9-16 Index of Properties

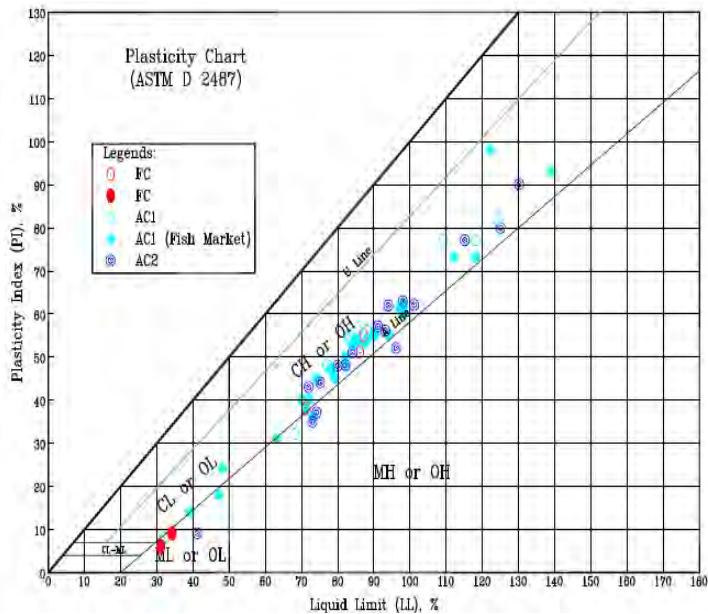


Fig. 9-17 Classification of Plasticity

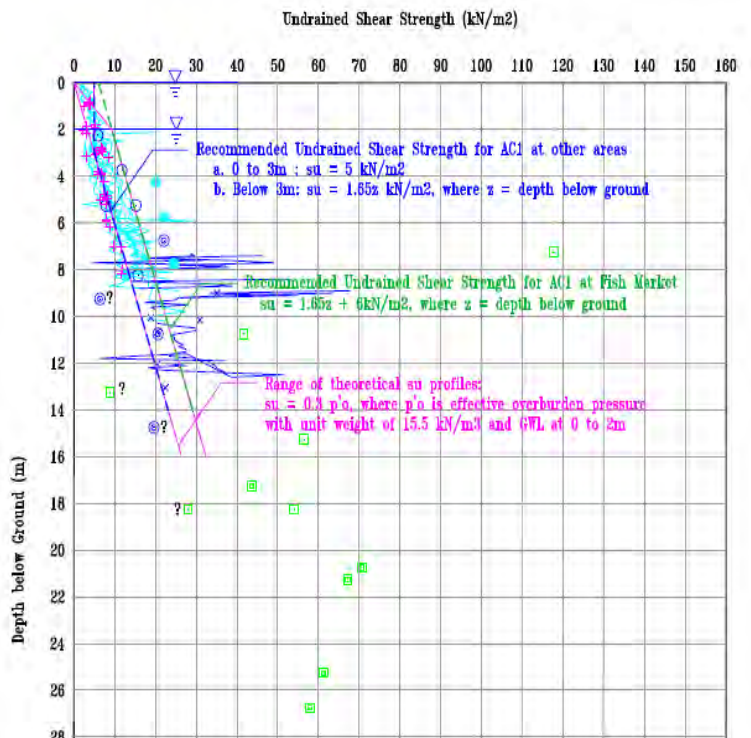


Fig. 9-18 Undrained Shear Strengths

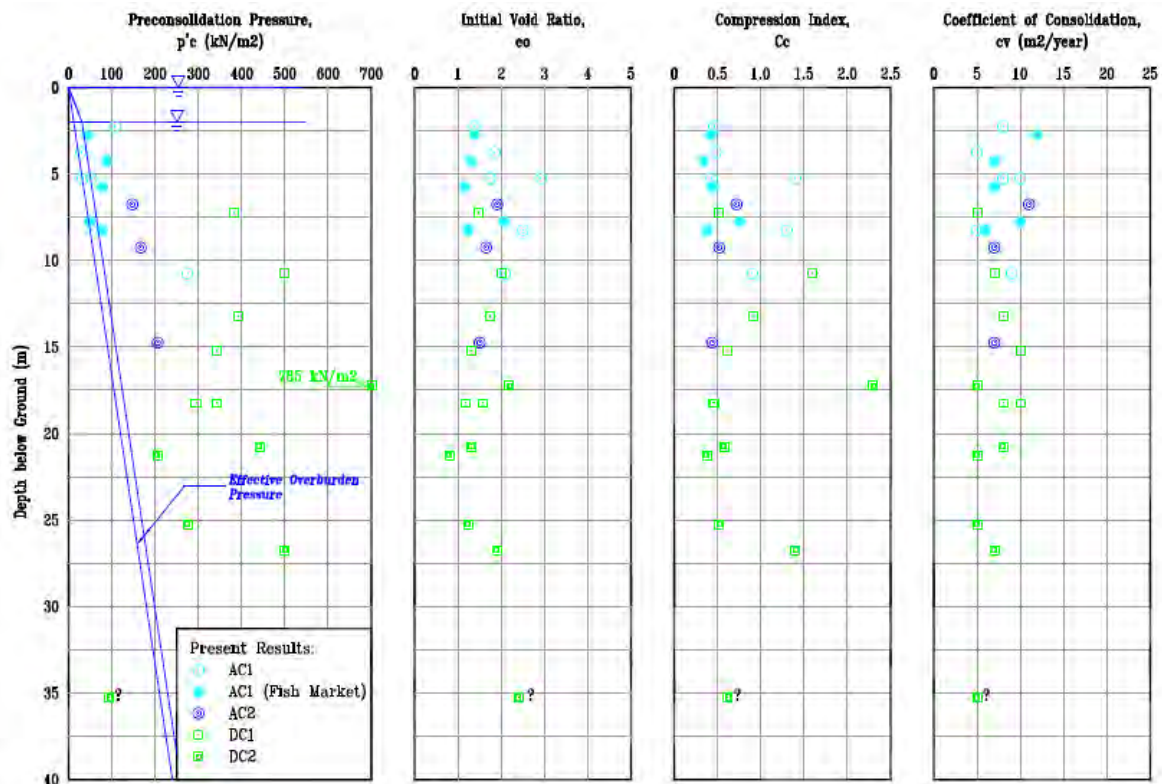


Fig. 9-19 Consolidation Properties of Soil

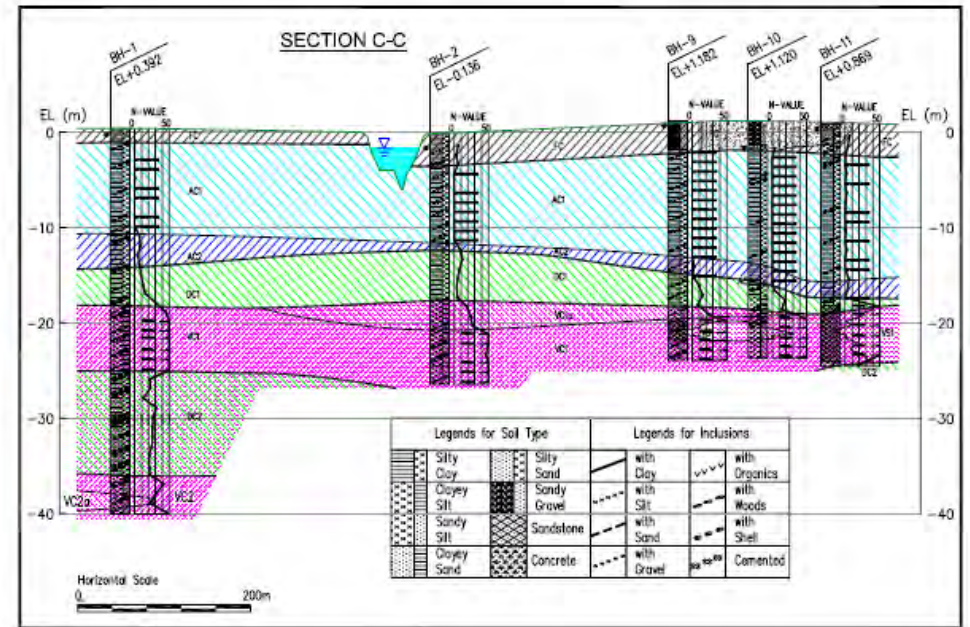
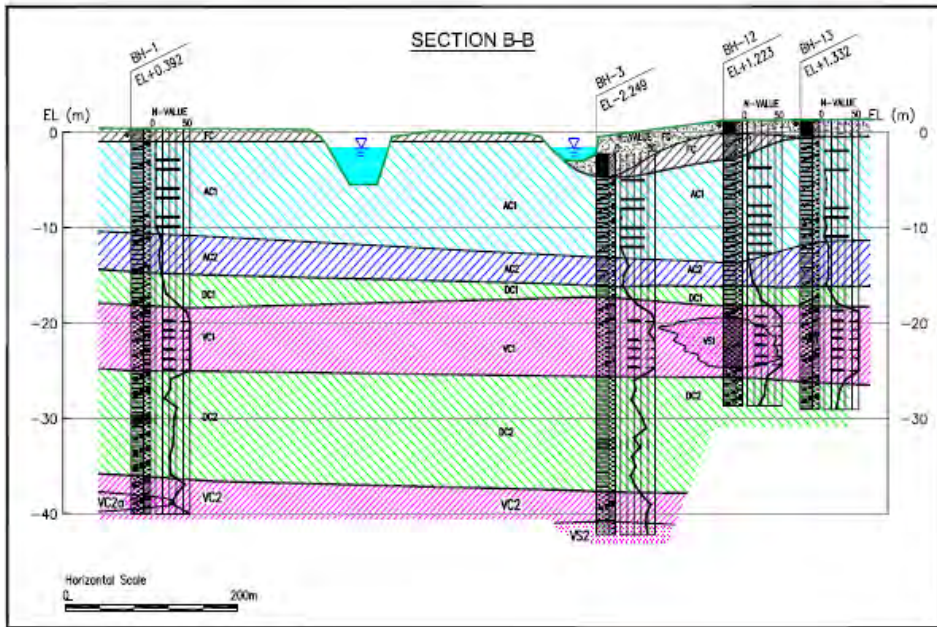
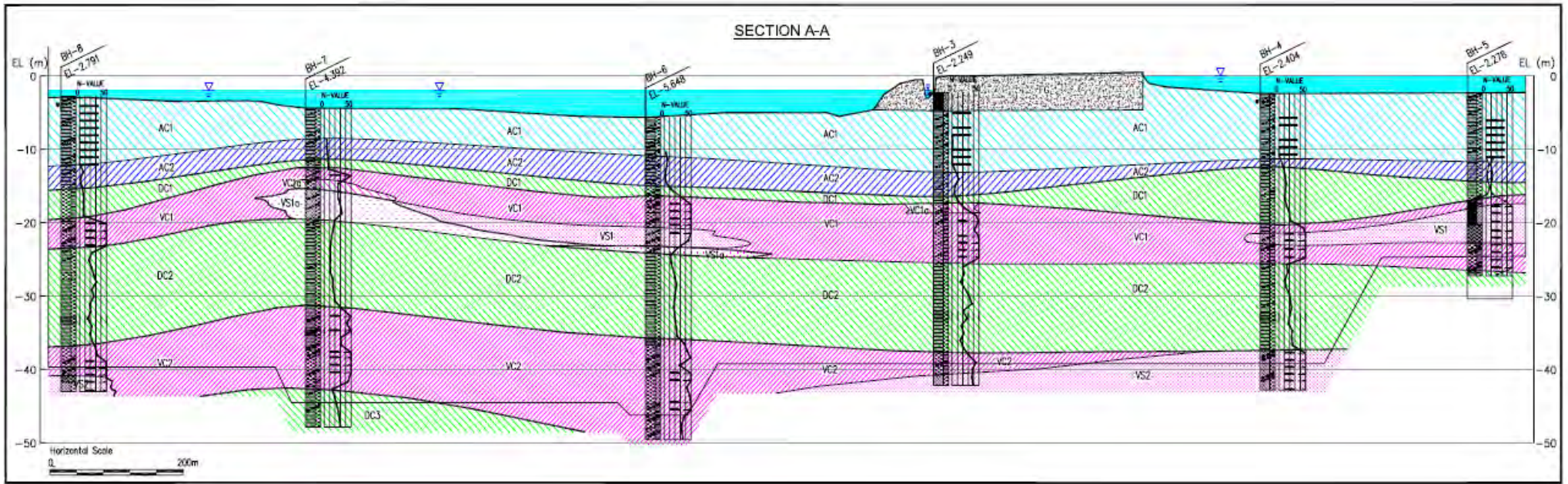


Fig. 9-20 Soil Profiles

LAMPIRAN 10

Hasil Tes Kualitas Air



PEMERINTAH PROVINSI DAERAH KHUSUS IBUKOTA JAKARTA
BADAN PENGELOLA LINGKUNGAN HIDUP DAERAH
LABORATORIUM LINGKUNGAN HIDUP DAERAH

Jl. Casablanca Kav. 1 Kuningan Telp. 5209651 - 5209653, Fax. 52960584, e-mail : llhddkijakarta@yahoo.com
 JAKARTA

Kode Pos : 12950

No. Akreditasi : LP - 126 - IDN

LAPORAN HASIL UJI

Nomor Contoh : 0344 - 0346/ LAB. 2G - LC/IV/2011
 Contoh Dari : OAFIC - JICA
 Alamat : Jalan Pelabuhan Perikanan Nizam Zachman, Gd Perum Cabang Lt II, Jakarta
 Jenis Industri / Kegiatan : Study Pasar Ikan
 Tanggal Penerimaan Contoh : 07 April 2011
 Tanggal Pengujian : 07 April 2011 - 18 April 2011
 Jenis Contoh : Air Limbah
 Tipe Lokasi : Buangan Langsung Hasil Pencucian

No	Parameter	Satuan	Hasil Uji			Baku Mutu	Metoda
			0344	0345	0346		
1	BOD (20°C, 5 hari)	mg/L	1,588.60	1,594.00	1,067.00	75.0	SNI 6989.72:2009
2	COD (Dichromat)	mg/L	3,096.77	3,870.97	4,645.16	100.0	SNI 6989.73:2009
3	Zat Padat Tersuspensi	mg/L	1,142.0	1,180.0	922.0	60.0	Spektrofotometer
4	Minyak dan Lemak	mg/L	16.82	< 1.13	1.75	5.0	Spektrofotometer
5	pH		6.5	6.5	6.4	6 - 9	SNI 06-6989.11-2004
6	Organik (KMnO ₄)	mg/L	2,191.33	1,742.43	2,093.87	85.0	SNI 06-6989.22-2004

Keterangan :

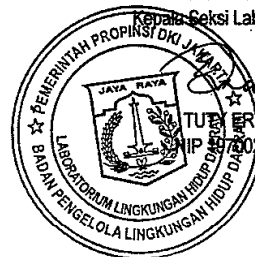
0344 = JFP - OAFIC Jam 19.00
 0345 = JFP - OAFIC Jam 21.00
 0346 = JFP - OAFIC Jam 23.00

Baku Mutu sesuai Keputusan Gubernur Provinsi DKI Jakarta Nomor 582 Tahun 1995
 Parameter yang tercetak tebal telah diakreditasi oleh KAN

Jakarta,

19 April 2011

a.n. KEPALA LABORATORIUM LINGKUNGAN HIDUP DAERAH
 PROVINSI DKI JAKARTA
 Kepala Seksi Laboratorium Pengujian,



TUTY ERWAWATI S, ST
 NIP 197002141998032002

Halaman 1 dari 1

Catatan : 1. Laporan hasil uji hanya berhubungan dengan contoh yang diuji
 2. Laporan hasil uji tidak boleh digandakan kecuali seluruhnya, tanpa persetujuan tertulis dari laboratorium

DP/5.10.5/SMM-LL; Rev 1; 01 Februari 2006



Mari bersama memasyarakatkan penggunaan produk Industri Daur Ulang

Fig. 10-1 Test Result of Waste Water in the Existing Wholesale Market Hall

Table10-1 Result of Water Quality Test Conducted by the Team**1. Test Result of Water quality (Apr 11, 2011, PM 4:00)**

(1) Sampling point of sea water (Sea side of East Breakwater near East Revetment)

pH	Conductivity	Turbidity	Dissolved Oxygen	Temperature	Salt	TDS	Specific Gravity
(pH)	(S/m)	(mg/l)	(mg/l)	(Degree. C)	%	(g/l)	(1/ 1,000+1)
7.92	4.9	33	6.2	28.7	3.2	30	20

(2) Sampling point of sea water (Sea side, at the corner of West Breakwater)

pH	Conductivity	Turbidity	Dissolved Oxygen	Temperature	Salt	TDS	Specific Gravity
(pH)	(S/m)	(mg/l)	(mg/l)	(Degree. C)	%	(g/l)	(1/ 1,000+1)
7.3	6.6	-	3.5	29.1	3.2	34.8	24.3

(3) Sampling point of sea water (Sea side of West Revetment near Sewage Treatment Plant)

pH	Conductivity	Turbidity	Dissolved Oxygen	Temperature	Salt	TDS	Specific Gravity
(pH)	(S/m)	(mg/l)	(mg/l)	(Degree. C)	%	(g/l)	(1/ 1,000+1)
7.45	4.4	35	3.5	29.2	2.6	26.5	17.0

TDS: Total Dissolved Solids

2. Test Result of Water quality (Apr 12, 2011, AM 10:20)

(1) Sampling point of sea water (Sea side of East Breakwater near East Revetment)

pH	Conductivity	Turbidity	Dissolved Oxygen	Temperature	Salt	TDS	Specific Gravity
(pH)	(S/m)	(mg/l)	(mg/l)	(Degree. C)	%	(g/l)	(1/ 1,000+1)
8.1	5	23	8	29.2	3.3	30	20

(2) Sampling point of sea water (Sea side, at the corner of West Breakwater)

pH	Conductivity	Turbidity	Dissolved Oxygen	Temperature	Salt	TDS	Specific Gravity
(pH)	(S/m)	(mg/l)	(mg/l)	(Degree. C)	%	(g/l)	(1/ 1,000+1)
7.33	3.8	21	4.6	29.3	2.5	23.0	14.0

(3) Sampling point of sea water (Sea side of West Revetment near Sewage Treatment Plant)

pH	Conductivity	Turbidity	Dissolved Oxygen	Temperature	Salt	TDS	Specific Gravity
(pH)	(S/m)	(mg/l)	(mg/l)	(Degree. C)	%	(g/l)	(1/ 1,000+1)
7.2	4.2	37.0	3.7	29.1	2.9	27.0	18.0

(4) Sampling point of water (Mouth of PLUIT Pond)

pH	Conductivity	Turbidity	Dissolved Oxygen	Temperature	Salt	TDS	Specific Gravity
(pH)	(S/m)	(mg/l)	(mg/l)	(Degree. C)	%	(g/l)	(1/ 1,000+1)
7.23	0.2	35.0	5.3	29.3	0.1	1.5	0.0

(5) Sampling of water: Effluent water after Desalination treatment (Channel at WISMA MINA)

pH	Conductivity	Turbidity	Dissolved Oxygen	Temperature	Salt	TDS	Specific Gravity
(pH)	(S/m)	(mg/l)	(mg/l)	(Degree. C)	%	(g/l)	(1/ 1,000+1)
7.43	7.7	36.8	5.6	30.4	4.0	45.0	35.0

(6) Sampling of water: Drainage inside the existing Wholesale market

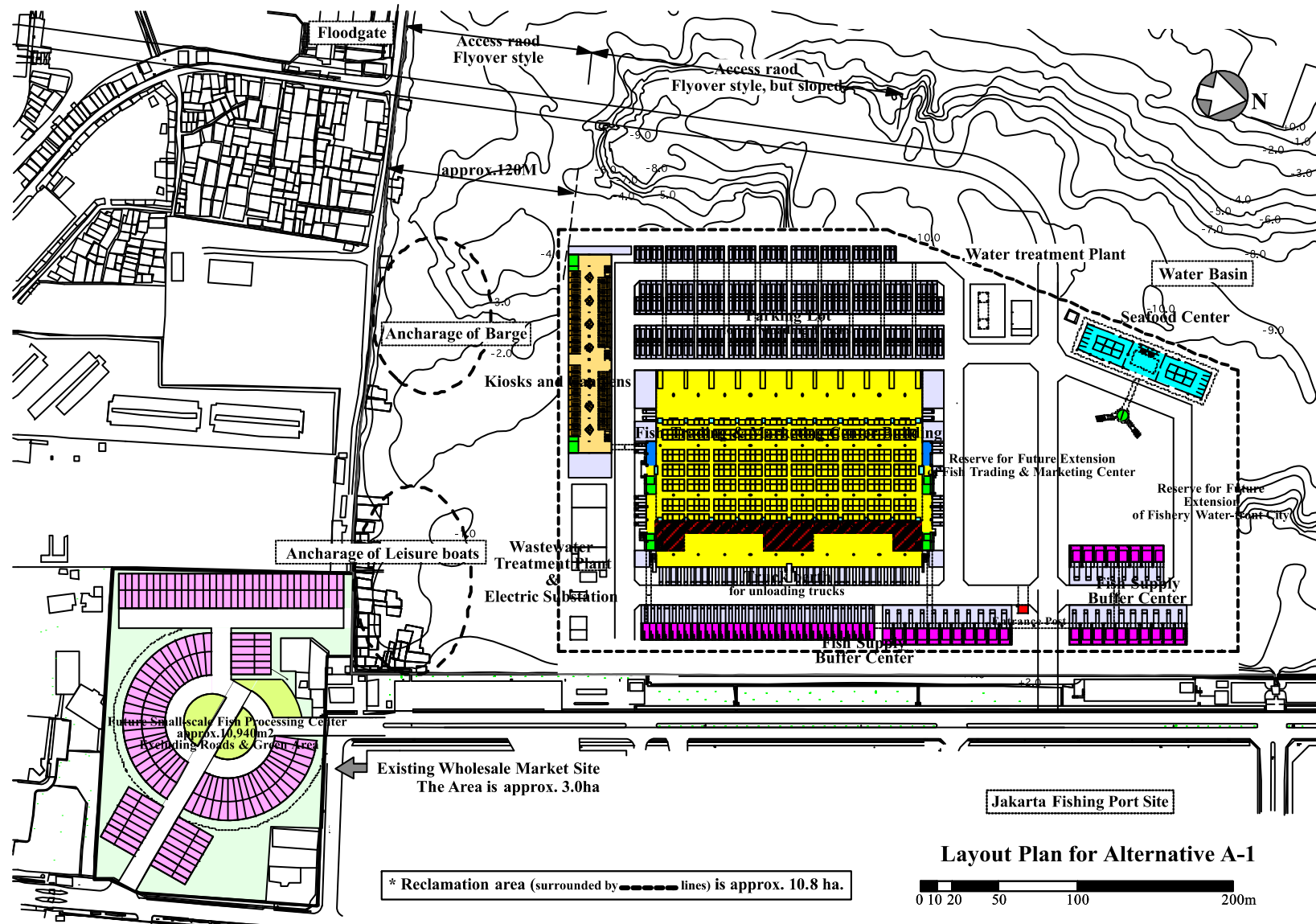
pH	Conductivity	Turbidity	Dissolved Oxygen	Temperature	Salt	TDS	Specific Gravity
(pH)	(S/m)	(mg/l)	(mg/l)	(Degree. C)	%	(g/l)	(1/ 1,000+1)
6.59	5.6	0.0	4.9	25.7	3.5	32.0	24.0

LAMPIRAN 11

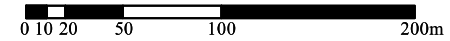
**Rencana Lokasi/Rencana Tata Letak
(termasuk rencana alternatif)**

APPENDIX 11-1 Site Plan / Layout Plan – Alternative A-1 (Island Type Reclamation)

A-11-1

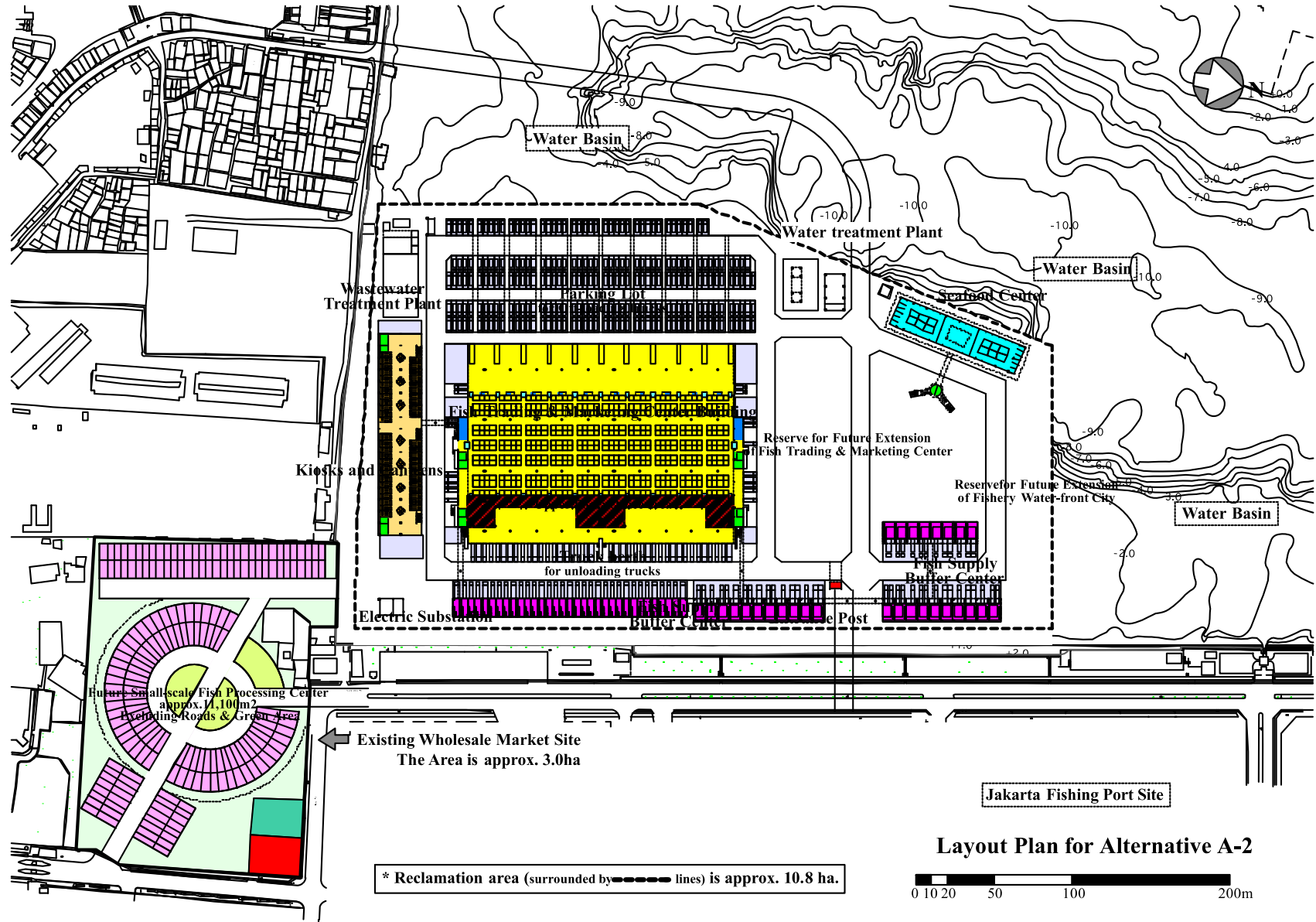


Layout Plan for Alternative A-1



APPENDIX 11-2 Site Plan / Layout Plan – Alternative A-2 (Attached directly to the Existing Land)

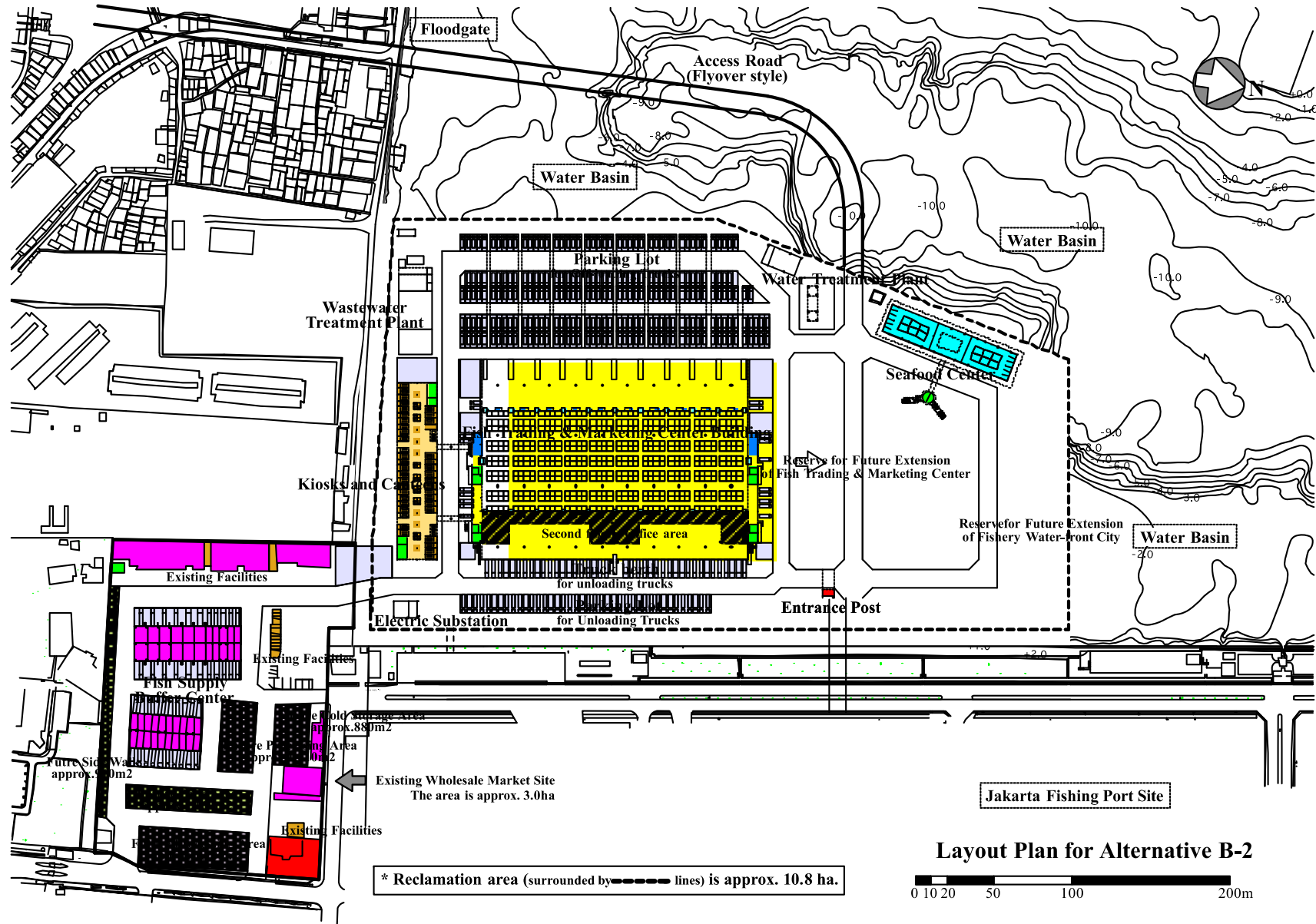
A-11-2



Layout Plan for Alternative A-2
 0 10 20 50 100 200m

APPENDIX 11-3 Site Plan / Layout Plan – Alternative B-2 (Combination Land Use with the Existing Site)

A-11-3

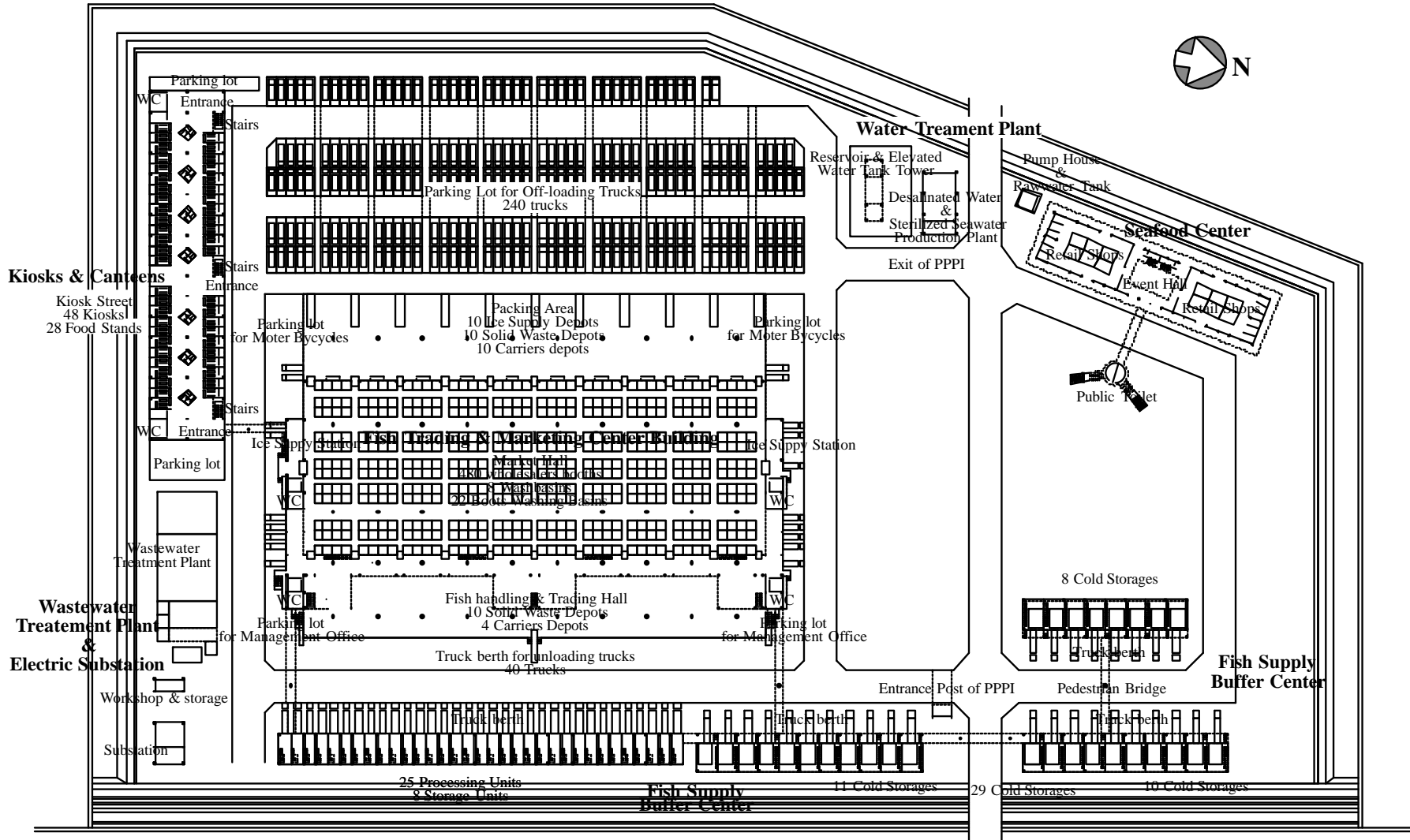


* Reclamation area (surrounded by - - - lines) is approx. 10.8 ha.

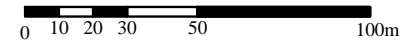
Layout Plan for Alternative B-2
 0 10 20 50 100 200m

APPENDIX 11-4 Ground Floor Plan of the Facilities in Fish Trading & Marketing Center Complex (In the case of A-1)

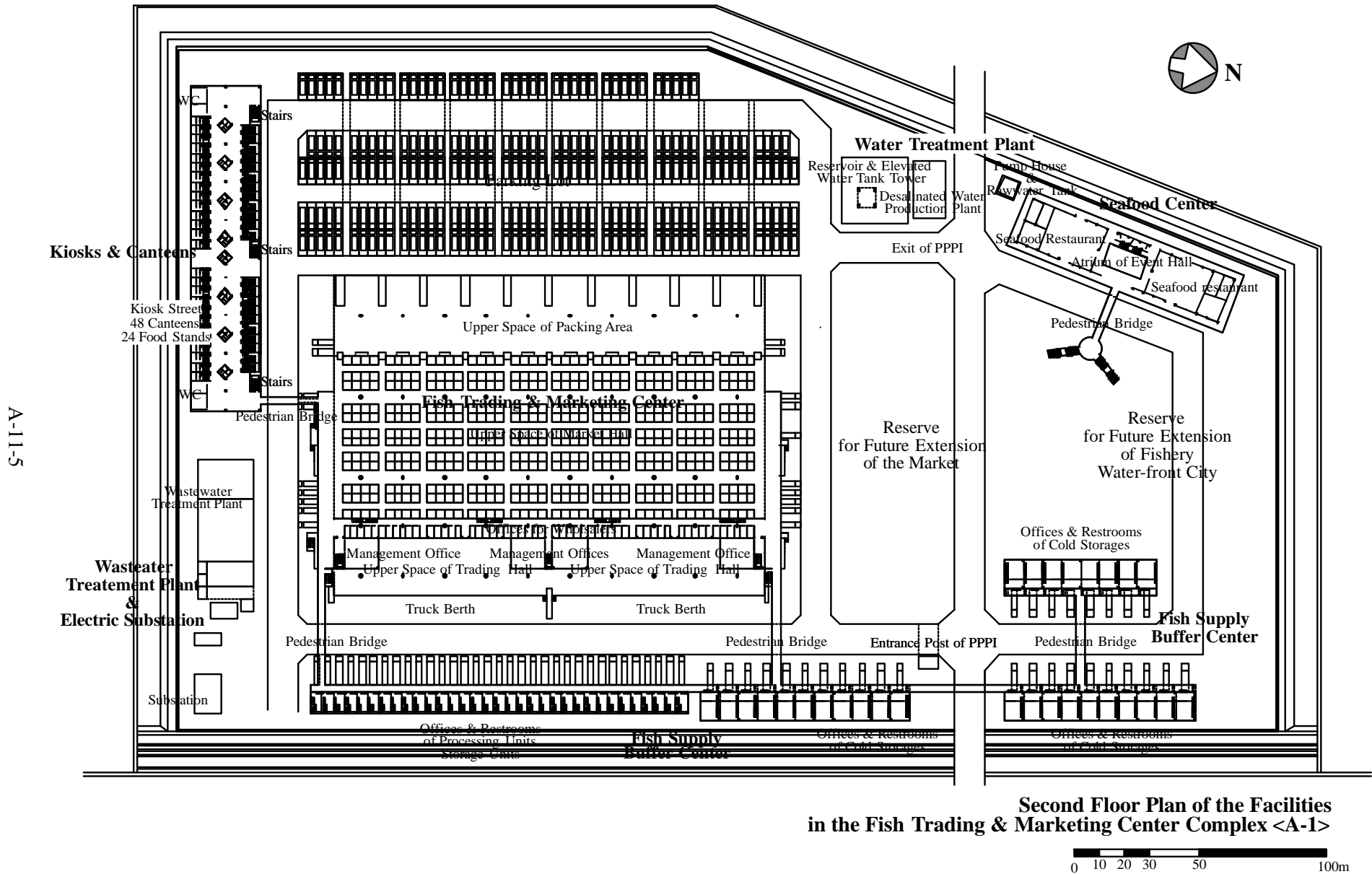
A-11-4



Ground Floor Plan of the Facilities in the Fish Trading & Marketing Center Complex <A-1>



APPENDIX 11-5 Second Floor Plan of the Facilities in Fish Trading & Marketing Center Complex (In the case of A-1)



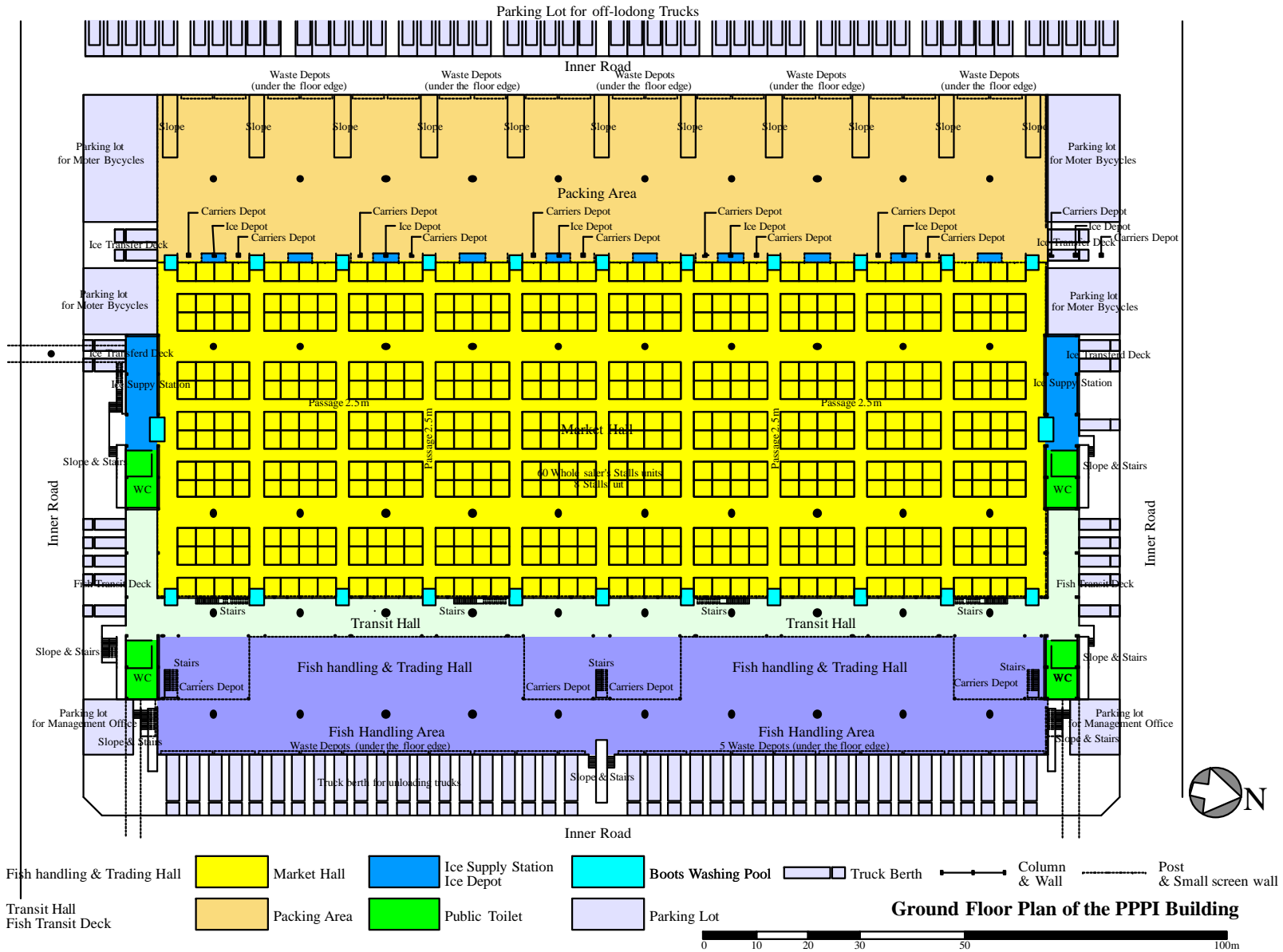
A-11-V

Second Floor Plan of the Facilities in the Fish Trading & Marketing Center Complex <A-1>

0 10 20 30 50 100m

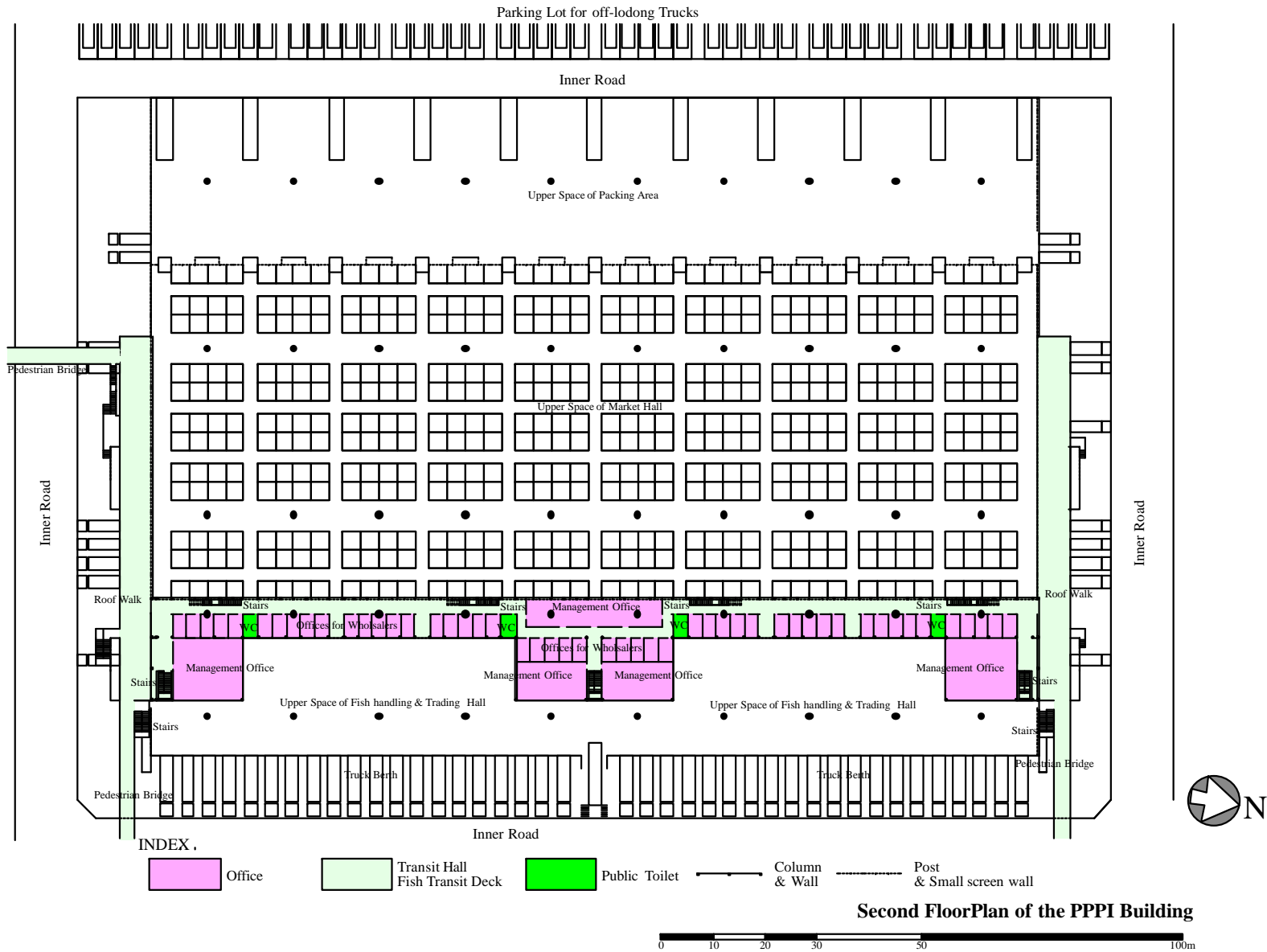
APPENDIX 11-6 Ground Floor Plan of PPPI (Fish Trading & Marketing Center)

A-11-V

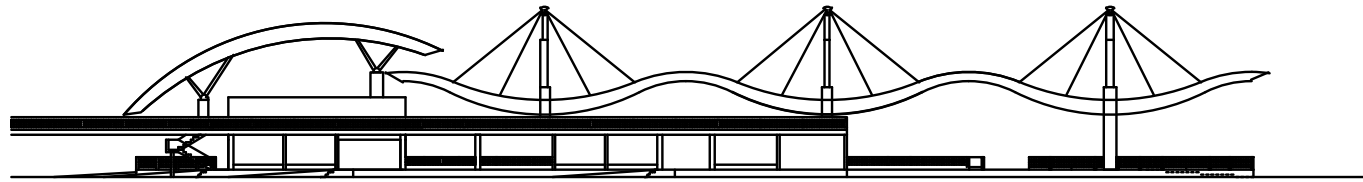


APPENDIX 11-7 Second Floor Plan of PPPI (Fish Trading & Marketing Center) Building

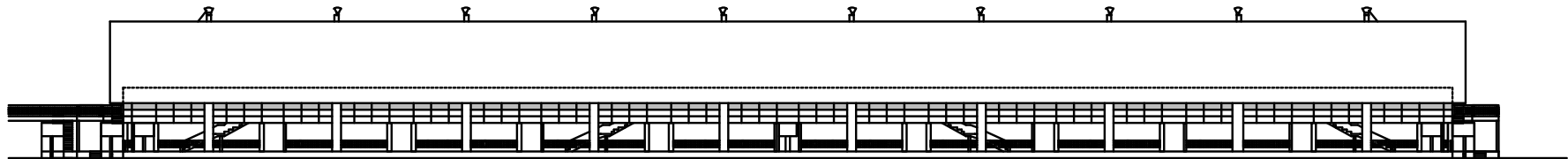
A-11-7



APPENDIX 11-8 Elevation and Sectional Plan of PPPI (Fish Trading & Marketing Center) Building

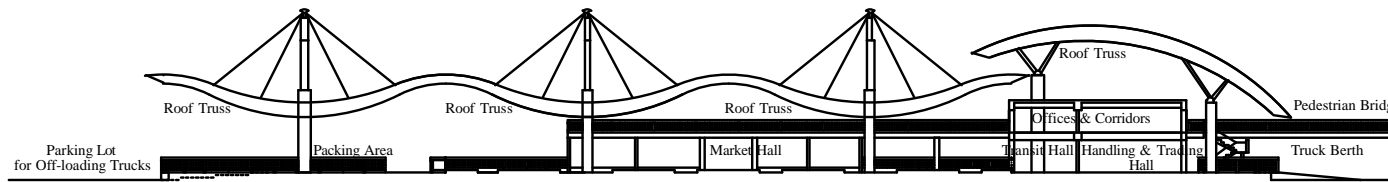


North Elevation

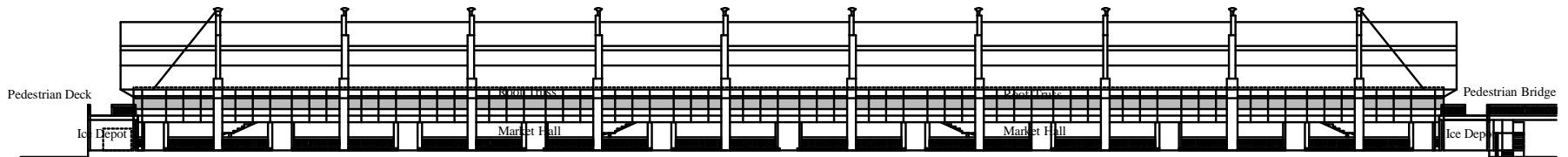


East Elevation

A-11-8



West-East Sectional Plan

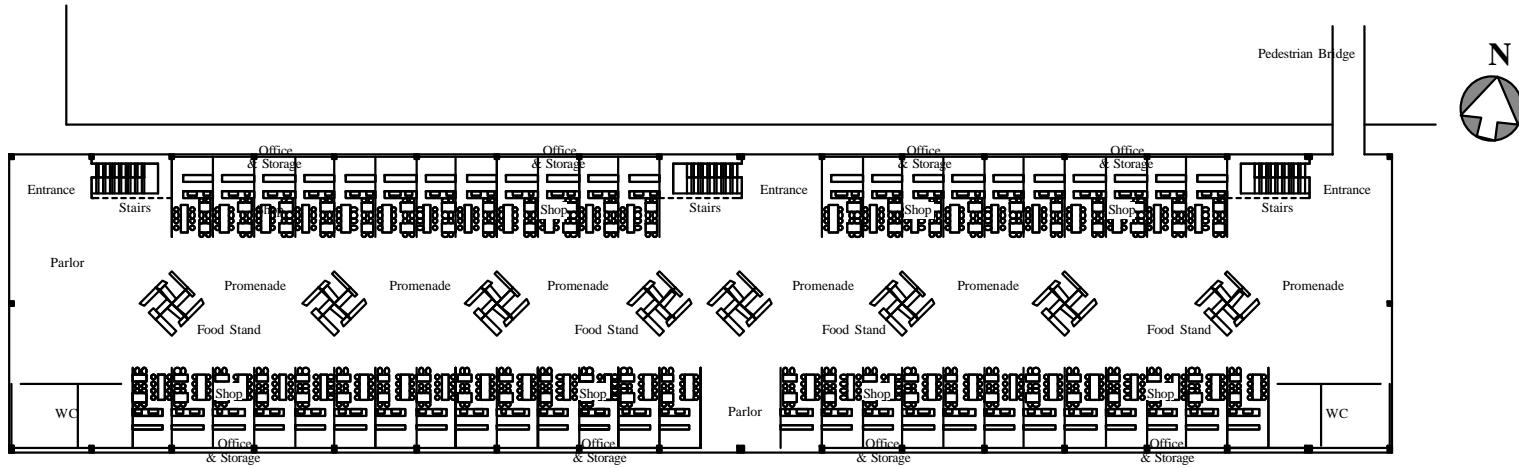


North-South Sectional Plan

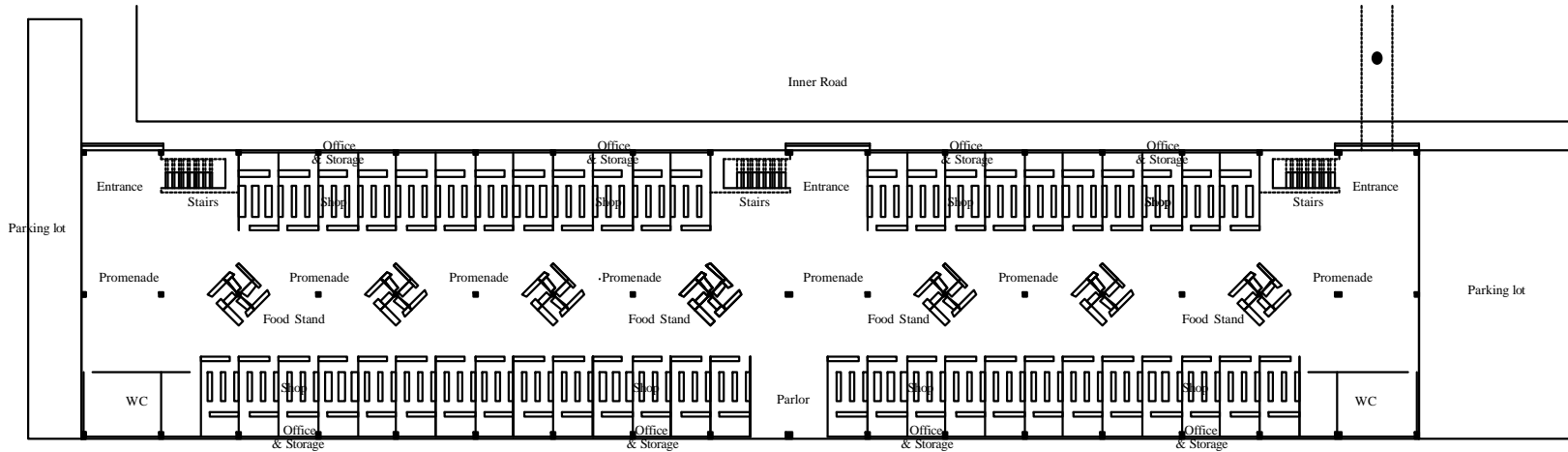
Elevation and Sectional Plan of PPPI



APPENDIX 11-9 Plan of Kiosks and Canteens



Second Floor Plan

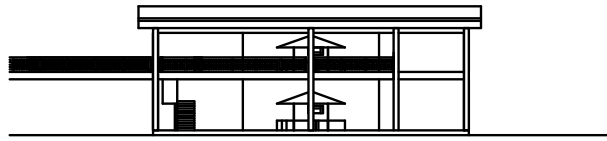


Ground Floor Plan of Kiosks & Canteens

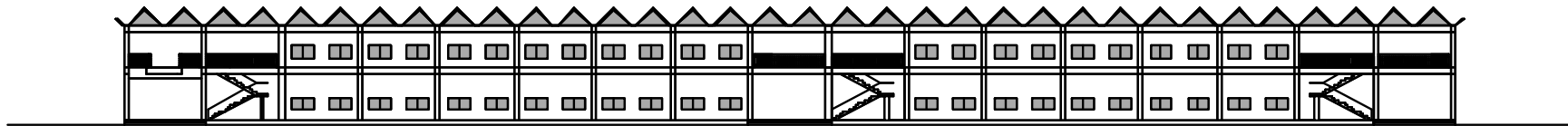


A-11-V
6-11-9

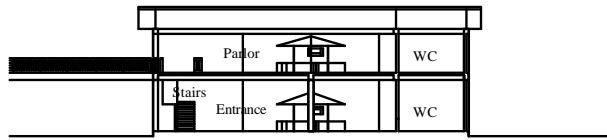
APPENDIX 11-10 Elevation and Sectional Plan of Kiosks and Canteens



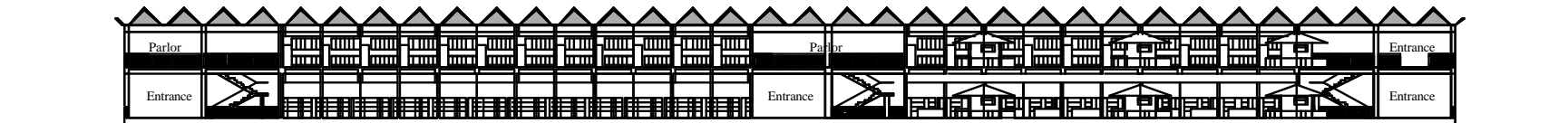
West Elevation



North Elevation



Entrance & Parlor North -South Sectional Plan



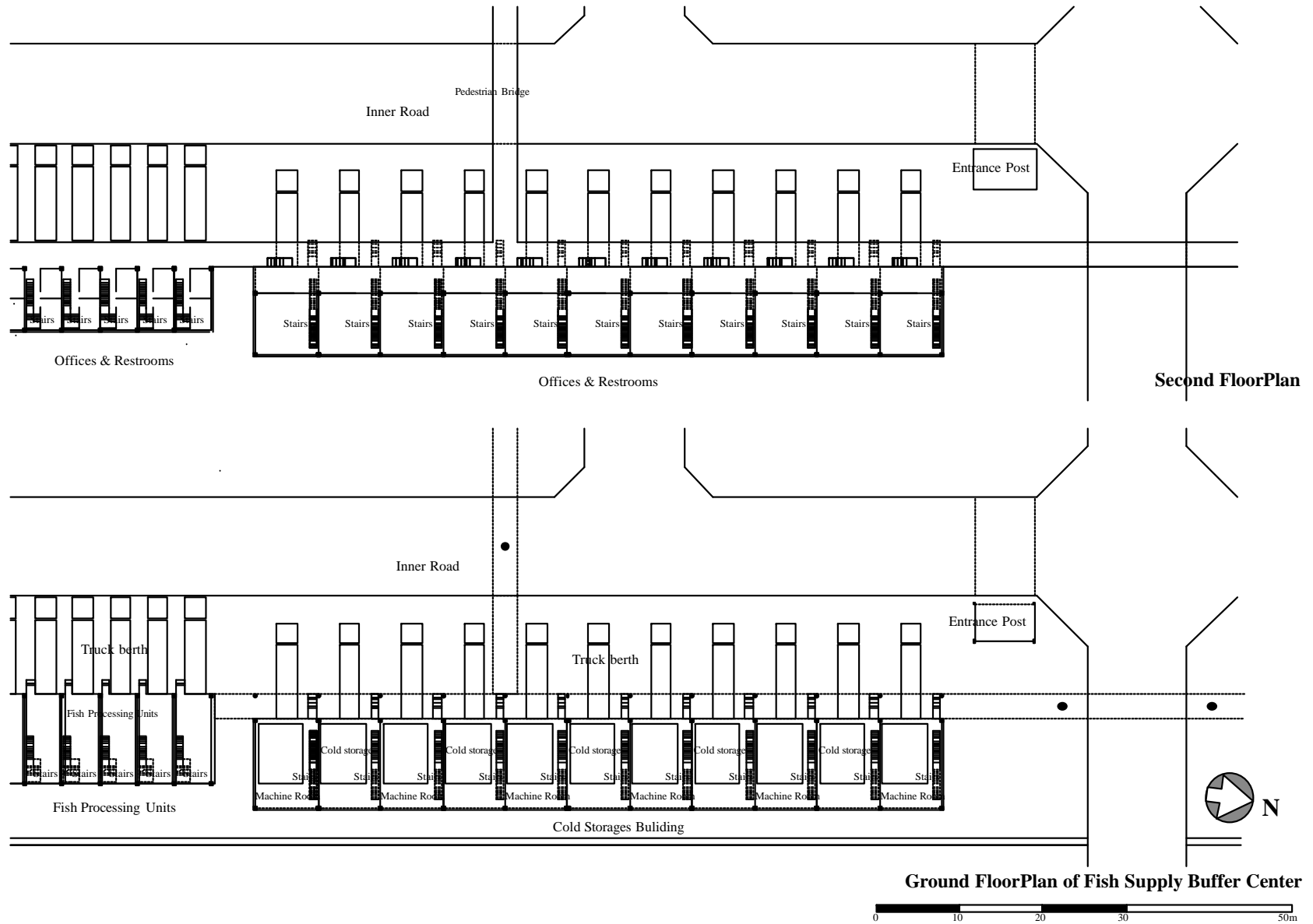
Kiosks & Canteens Promenade (Food Stand) West-East Sectional Plan

A-11-10

Elevations and Sectional Plan of Kiosks & Canteens

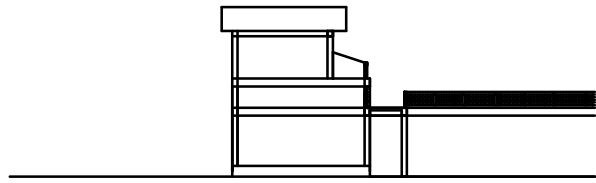


APPENDIX 11-11 Plan of Fish Supply Buffer Center

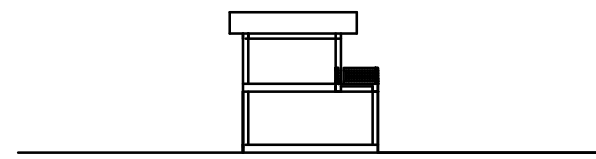


A-11-11

APPENDIX 11-12 Elevation and Sectional Plan of Fish Supply Buffer Center



Cold Storage Buildings



Fish Processing Units

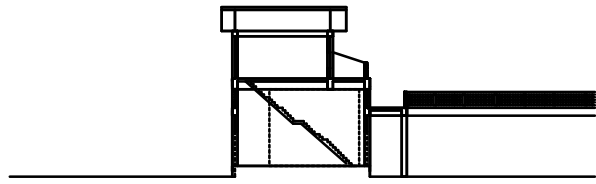
North Elevation



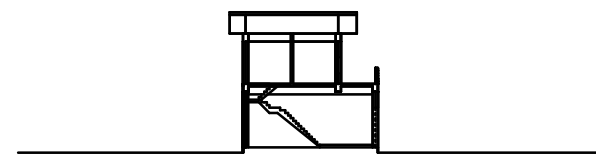
Cold Storage Buildings

Fish Processing Units

West Elevation



Cold Storage Buildings



Fish Processing Units

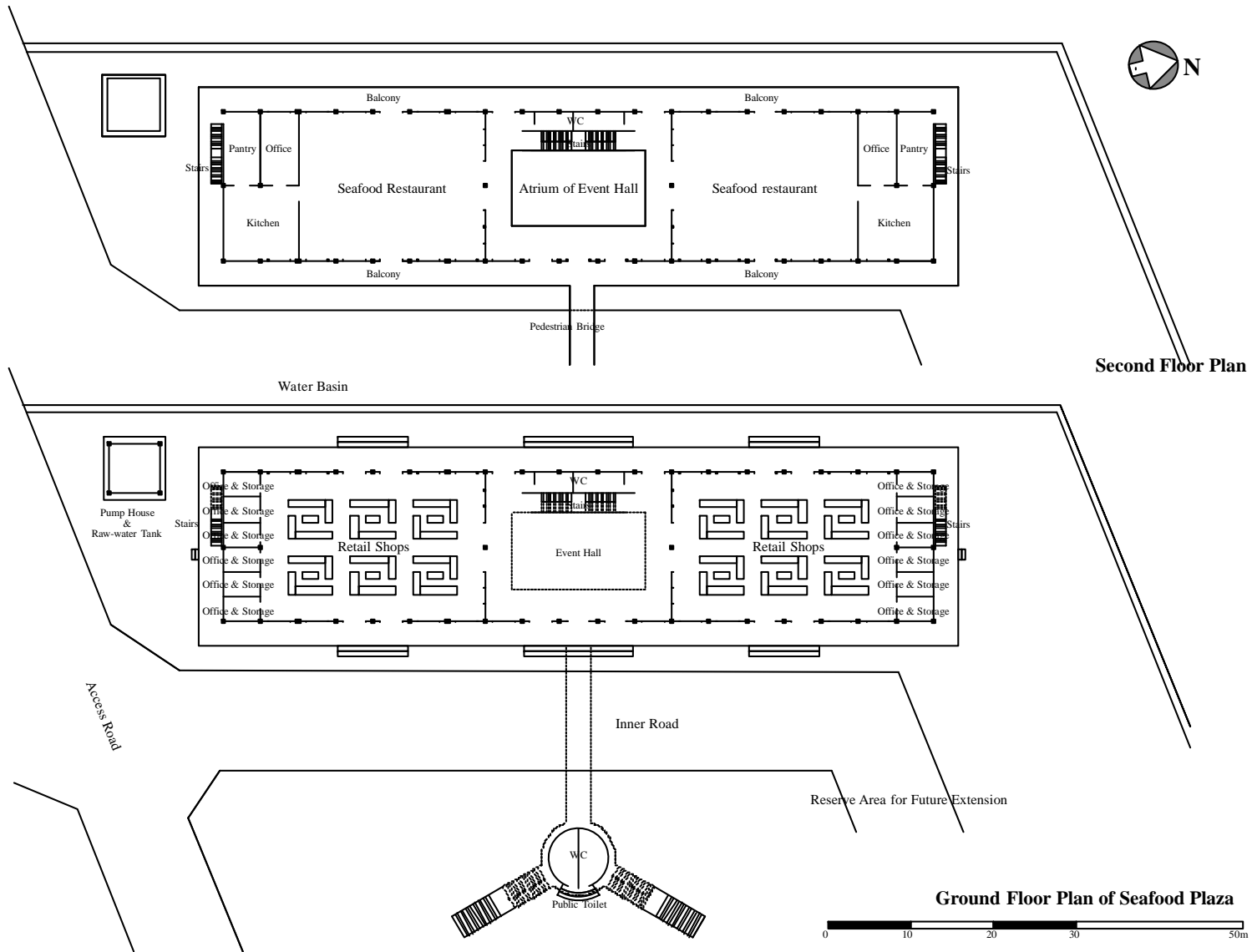
East-West Sectional Plan

A-11-12

Elevations and Sectional Plan of Seafood Center

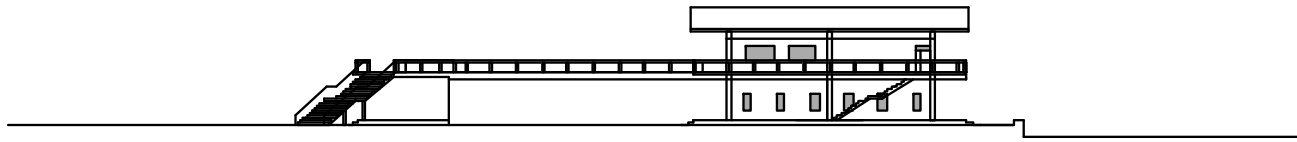


APPENDIX 11-13 Plan of Seafood Plaza

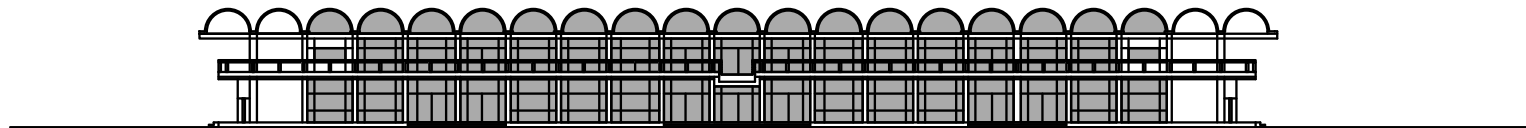


A-11-13

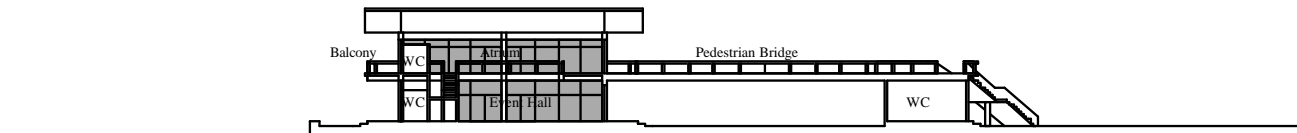
APPENDIX 11-14 Elevation and Sectional Plan of Seafood Plaza



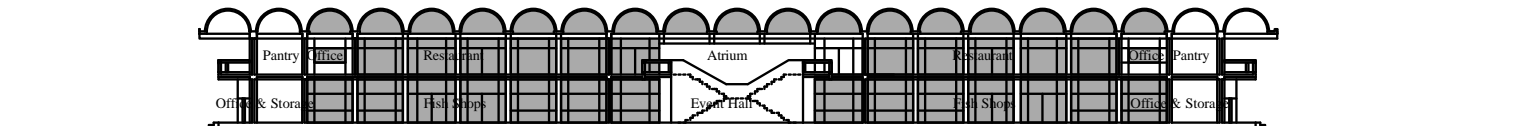
North Elevation



East Elevation



Water Basin Seafood Center Inner Road Public Toilet Reserve
West-East Sectional Plan



Seafood Center

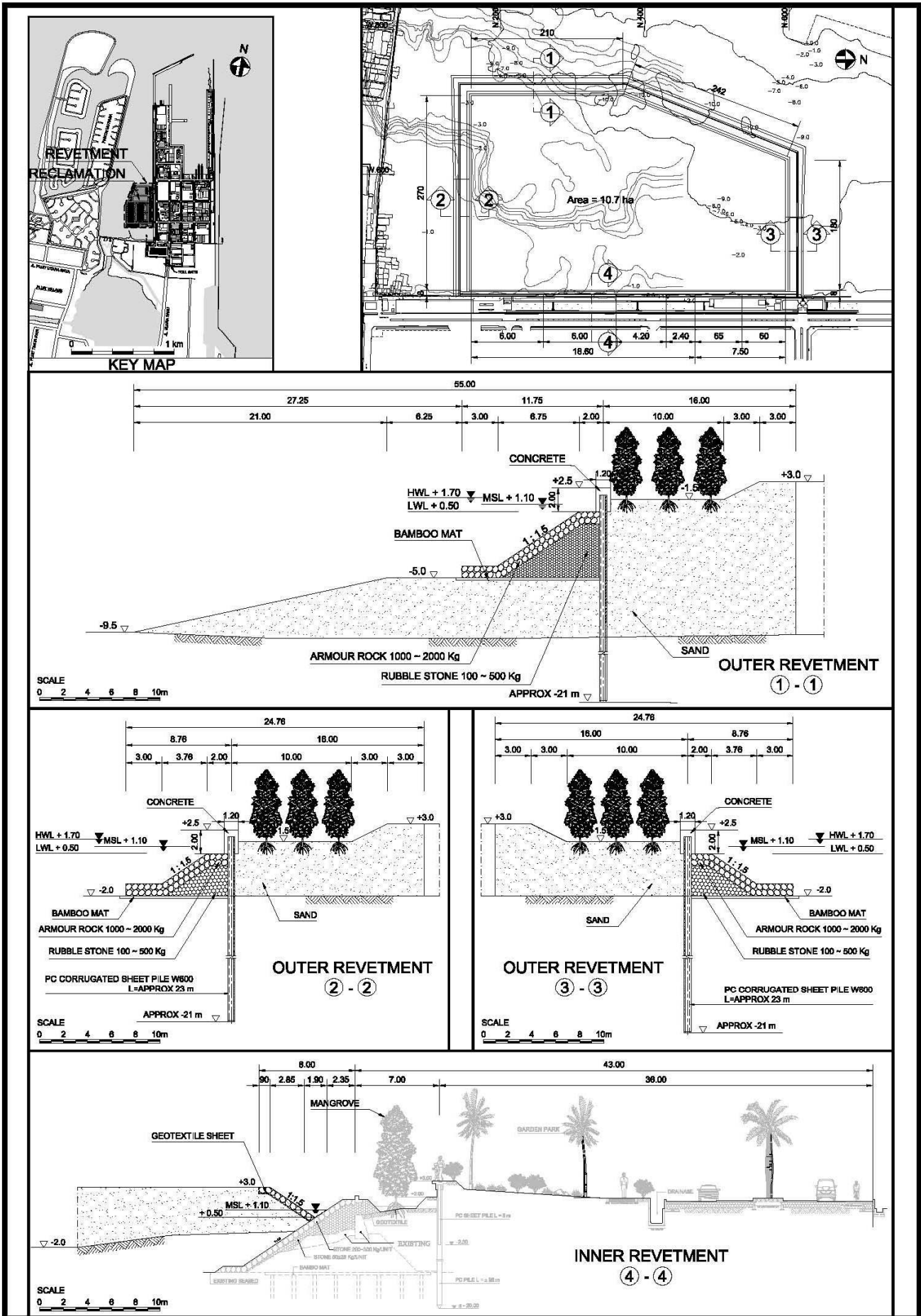
South-North Sectional Plan

A-11-14

Elevations and Sectional Plan of Seafood Plaza



APPENDIX 11-15 Condition of Wind, Wave, Water Flow, and Revetment



APPENDIX 11-16 Impact to Discharge Rainwater by Site Construction of Reclamation

In case of the rain, the rainwater is discharged to pump up from flood control gate area in Pluit Pond to sea. Those discharge rainwater speeds are about $11\text{m}^3/\text{sec}$ in the ordinary rain and about $34\text{m}^3/\text{sec}$ in the extraordinary rain. The existing width between the east seawall along Pantai Mutiara and the west seawall/breakwater along Jakarta Fishing Port is around 130m to 500m. In the site construction planning, the waterway of the reclamation side secures more than 200m in width. In this situation, water level fluctuation based on the influence of reclamation was confirmed by the calculation of non-uniform flow. The water level was calculated by computer program of HEC-RAS which was developed by US Army Corps of Engineers. In the results of computation, the level fluctuation was nothing, therefore, site construction of reclamation is not affected to the water level in waterway of the reclamation side.

1. Result of Calculation

(1)	(2) W.L.=1.7m <D Section>	(3) W.L.=0.5m <D Section>
(4) Existing Section	(5) (Case1-1) (6) W.L.=1.7m on each section (A to D)	(7) (Case1-2) (8) W.L.=0.5m on each section (A to D)
(9) Section after reclamation	(10) (Case2-1) (11) W.L.=1.7m on each section (A to D)	(12) (Case2-2) (13) W.L.=0.5m on each section (A to D)

2. Outline of Calculation

Software of Calculation : Hydrologic Engineering Centers River Analysis System (HEC-RAS)

Applied Methodology : Calculation of non-uniform flow

Boundary Condition : Discharge volume from Pluit Pump Station: $34\text{m}^3/\text{s}$ <A Section>
W.L.=1.7m (Maximum height) and 0.5m (Minimum height) <D Section>

Case of Calculation : 4 cases in above table

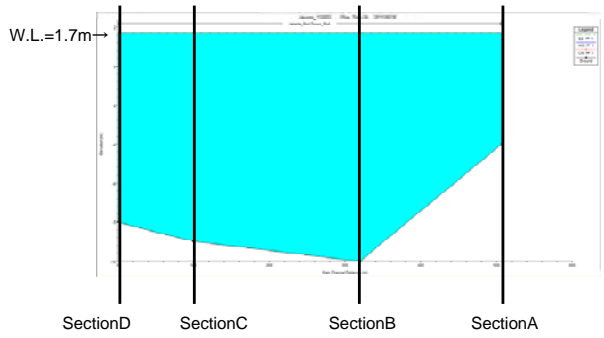
Roughness Coefficient : $n=0.035$

3. Outline of Calculation Result of Each Cases

(Case1-1)

Case 1-1	XS	River Sta	Q Total (m^3/s)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m^2)	Top Width (m)
	SectionA	507	34	1.7	0.02	2040.06	502.99
	SectionB	320	34	1.7	0.01	2850.39	488.07
	SectionC	100	34	1.7	0.01	2758.38	412.81
	SectionD	0	34	1.7	0.02	2155.29	360.09

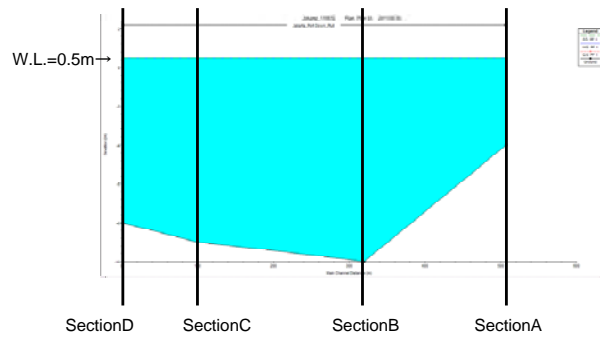
< Longitudinal Section >



(Case1-2)

Case 1-2	XS	River Sta	Q Total (m ³ /s)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m ²)	Top Width (m)
	SectionA	507	34	0.5	0.02	1436.49	502.96
	SectionB	320	34	0.5	0.02	2264.74	488.02
	SectionC	100	34	0.5	0.02	2263.53	410.78
	SectionD	0	34	0.5	0.02	1723.21	360.04

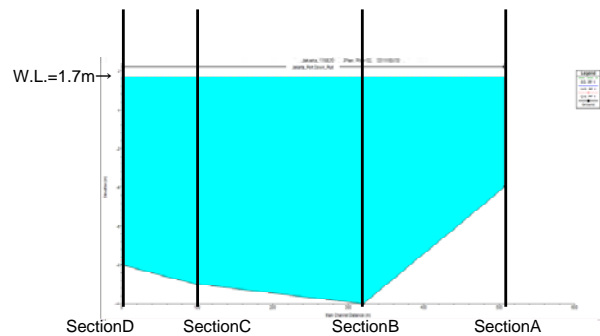
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(Case2-1)

Case 2-1	XS	River Sta	Q Total (m ³ /s)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m ²)	Top Width (m)
	SectionA	507	34	1.7	0.04	933.5	205.34
	SectionB	320	34	1.7	0.03	1278.7	189.6
	SectionC	100	34	1.7	0.03	1148.19	207.41
	SectionD	0	34	1.7	0.02	2155.29	360.09

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(Case2-2)

Case 2-2	XS	River Sta	Q Total (m ³ /s)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m ²)	Top Width (m)
	SectionA	507	34	0.5	0.05	687.12	205.3
	SectionB	320	34	0.5	0.03	1051.21	189.55
	SectionC	100	34	0.5	0.04	899.32	207.36
	SectionD	0	34	0.5	0.02	1723.21	360.04

<Longitudinal Section>

