

SYMBOL:

30 MTS MAST WITH SIX
(6) PCS OF 1000W HPS FIXTURE

30 MTS MAST WITH SIX
(6) PCS OF 1000W HPS FIXTURE

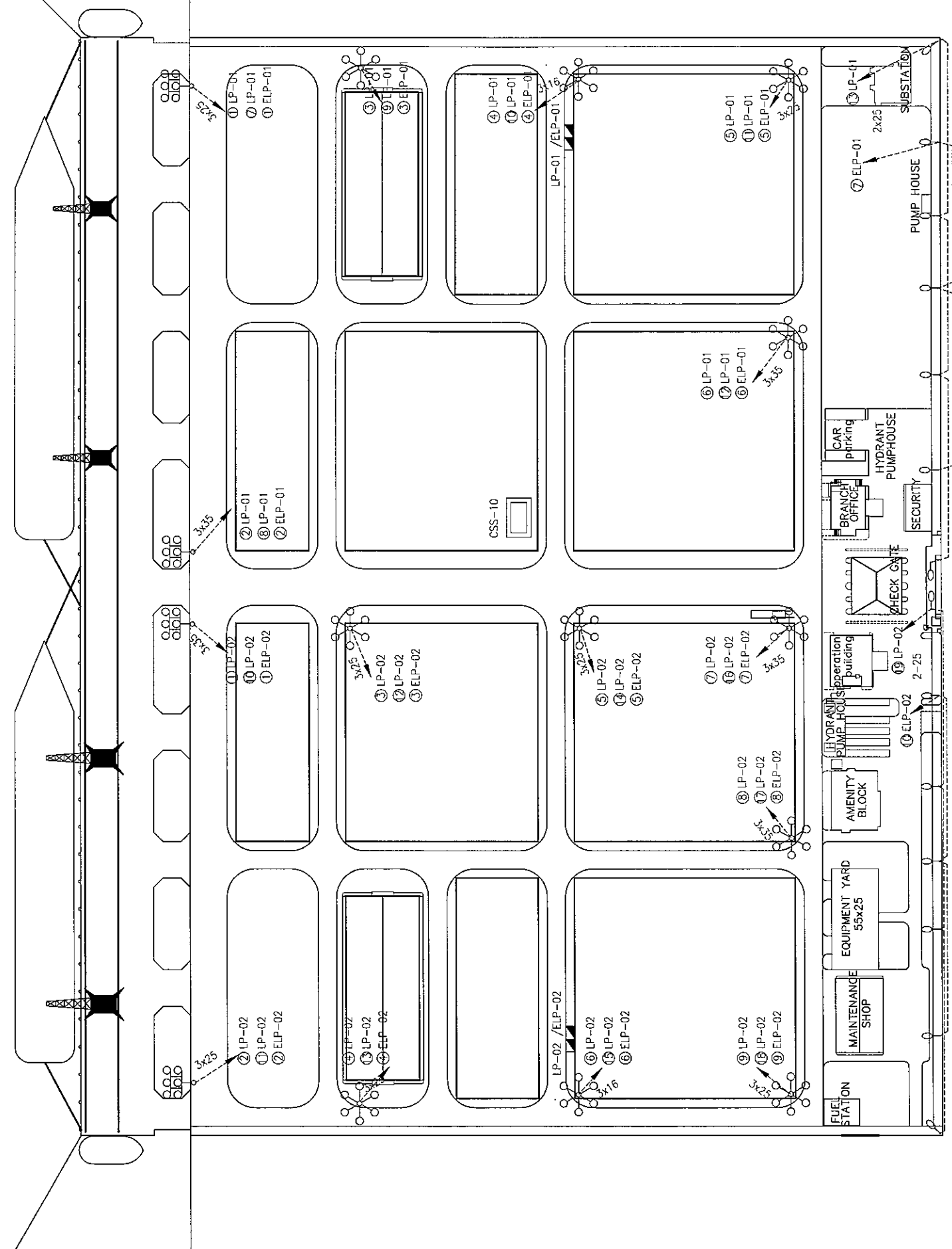
LAMP POST 10 MTS HIGH WITH
ONE-250W HPS FIXTURE

DISTRIBUTION BOARD

COMPACT SUBSTATION
CSS-10

WIRING SCHEDULE:

SYMBOL	WIRES		CONDUIT (HOPE PIPE)
	PHASE	GROUND	
X16	2-16mm ²	1-10mm ²	30mm ϕ
X25	2-25mm ²	1-10mm ²	50mm ϕ
X35	2-35mm ²	1-16mm ²	50mm ϕ



THE SOCIALIST REPUBLIC OF VIETNAM
MINISTRY OF TRANSPORT
PROJECT MANAGEMENT UNIT 85

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY
ASSIGNED TO:
JAPAN PORT CONSULTANT (JPC)
PACIFIC CONSULTANTS INTERNATIONAL (PCI)
INTERNATIONAL DEVELOPMENT SYSTEM (IDS)

CAI MEP - THI VAI INTERNATIONAL PORT
DEVELOPMENT PROJECT

PACKAGE 2
CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR
THI VAI AREA

DESIGNED BY: TOYOSHIMA Y.
DRAWN BY: DO THI VINH
CHECKED BY: NAGAO N.
APPROVED BY: NAGAI K.
ISSUE DATE: 10/ JAN/ 2006
SCALE: -

SECTION: ELECTRIC WORKS
SUB-SECTION: EXTERIOR LIGHTING SYSTEM
TITLE OF DRAWING: GENERAL CARGO TERMINAL LIGHTING LAYOUT
DWG NO: PAC2-TV-UTY-E-2-001
REV. NO

REV NO	DATE	DESCRIPTION	BY	APP

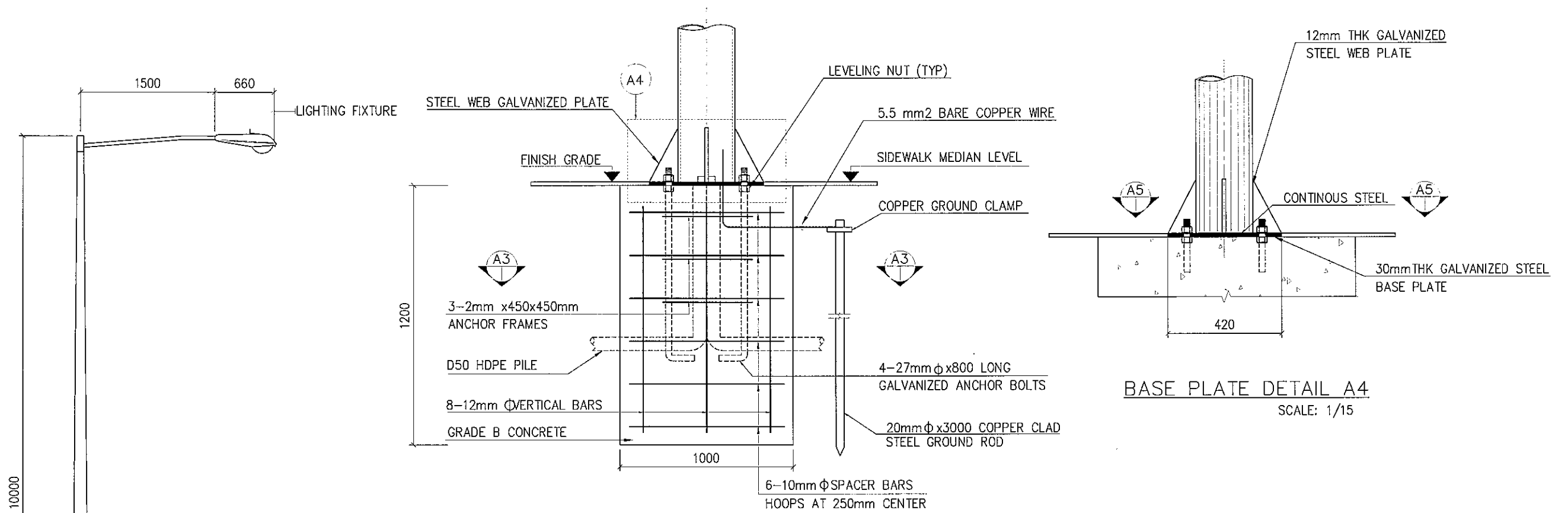
PANEL SCHEDULE LP-01/ELP-01								LOCATION: TVG-1 YARD MOUNTING: SELF STANDING (OUT DOOR)	
CKT No.	WIRE SIZE (MM2)	LOAD IN VA			DESCRIPTION	BREAKER SIZE			DIAGRAM 400/230V, 3Ø, 4W, SN
		Ø A	Ø B	Ø C		POLE	AF	AT	
①	25-50mm CONDUIT	2400			2-1000W.HPS	2	50	20	
②	35-50mm Ø CONDUIT		2400		↑	↑	↑	↑	
③	25-50mm Ø CONDUIT			2400	↑	↑	↑	↑	
④	16-30mm Ø CONDUIT	2400			↑	↑	↑	↑	
⑤	25-50mm Ø CONDUIT		2400		↑	↑	↑	↑	
⑥	35-50mm Ø CONDUIT			2400	↑	↑	↑	↑	
⑦	25-50mm Ø CONDUIT	2400			↑	↑	↑	↑	
⑧	35-50mm Ø CONDUIT		2400		↑	↑	↑	↑	
⑨	25-50mm Ø CONDUIT			2400	↑	↑	↑	↑	
⑩	16-30mm Ø CONDUIT	2400			↑	↑	↑	↑	
⑪	25-50mm Ø CONDUIT		2400		↑	↑	↑	↑	
⑫	35-50mm Ø CONDUIT			2400	↑	↑	↑	↑	
⑬	25-50mm Ø CONDUIT	1500			2-1000W.HPS	2	50	20	
⑭					5-250W.HPS	2	50	10	
⑮					SPACE				
⑯					SPACE				
⑰					SPACE				
TOTAL		11100	9600	9600	CONNECTED LOAD = 30300 = 44A				
		DEMAND 100% 30300			MAIN FEEDER 3c-50+1c-35mm2 -80mm Ø CONDUIT				
①	25-50mm Ø CONDUIT	2400			2-1000W.HPS	2	50	20	
②	35-50mm Ø CONDUIT		2400		↑	↑	↑	↑	
③	25-50mm Ø CONDUIT			2400	↑	↑	↑	↑	
④	16-30mm Ø CONDUIT	2400			↑	↑	↑	↑	
⑤	25-50mm Ø CONDUIT		2400		↑	↑	↑	↑	
⑥	35-50mm Ø CONDUIT			2400	↑	↑	↑	↑	
⑦	25-50mm Ø CONDUIT	1500			2-1000W.HPS	2	50	20	
⑧					5-250W.HPS	2	50	10	
⑨					SPACE				
⑩					SPACE				
TOTAL		6300	4800	4800	CONNECTED LOAD=15900 =23A				
		DEMAND 100%, 15900			MAIN FEEDER 3c-35+1c-25mm2 -80mm Ø CONDUIT				

		THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT		DESIGNED BY: TOYOSHIMA Y. DRAWN BY: DO THI VINH CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: 22/ AUG/ 2005 SCALE: -		SECTION: ELECTRIC WORKS SUB-SECTION: EXTERIOR LIGHTING SYSTEM TITLE OF DRAWING: YARD LIGHTING PANEL SCHEDULE (1/2) DWG NO: PAC2-TV-UTY-E-2-002 REV. NO	
				JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA			
REV NO	DATE	DESCRIPTION	BY	APP					

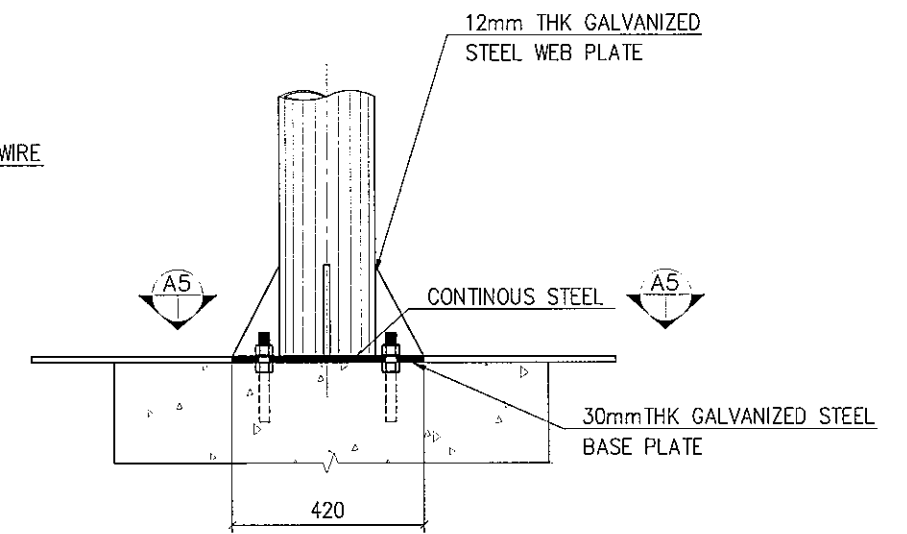
PANEL SCHEDULE LP-02					LOCATION: TVG-2 YARD MOUNTING: SELF STANDING (OUT DOOR)				
CKT No.	WIRE SIZE (MM2)	LOAD IN VA			DESCRIPTION	BREAKER SIZE			DIAGRAM 400/230V, 3 ϕ 4W.SN
		ϕ A	ϕ B	ϕ C		POLE	AF	AT	
①	35-50mm ϕ CONDUIT	2400			2-1000W.HPS	2	50	20	
②	25-50mm ϕ CONDUIT		2400						
③	35-50mm ϕ CONDUIT			2400					
④	25-50mm ϕ CONDUIT	2400							
⑤	25-50mm ϕ CONDUIT		2400						
⑥	16-30mm ϕ CONDUIT			2400					
⑦	35-50mm ϕ CONDUIT	2400							
⑧	35-50mm ϕ CONDUIT		2400						
⑨	25-50mm ϕ CONDUIT			2400					
⑩	35-50mm ϕ CONDUIT	2400							
⑪	25-50mm ϕ CONDUIT		2400						
⑫	35-50mm ϕ CONDUIT			2400					
⑬	25-50mm ϕ CONDUIT	2400							
⑭	25-50mm ϕ CONDUIT		2400						
⑮	16-30mm ϕ CONDUIT			2400					
⑯	35-50mm ϕ CONDUIT	2400							
⑰	35-50mm ϕ CONDUIT		2400						
⑱	25-50mm ϕ CONDUIT			2400	2-1000W.HPS	2	50	20	
⑲	25-50mm ϕ CONDUIT	1500			5-250W.HPS	2	50	10	
⑳					SPACE				
㉑					SPACE				
㉒					SPACE				
TOTAL		15900	14400	14400	CONNECTED LOAD = 44700 = 65A				
			44700		DEMAND 100% 44700	MAIN FEEDER 3c-70+1c-50mm2 -80mm ϕ CONDUIT			

PANEL SCHEDULE ELP-02					LOCATION: TVG-2 YARD MOUNTING: SELF STANDING (OUT DOOR)					
CKT No.	WIRE SIZE (MM2)	LOAD IN VA			DESCRIPTION	BREAKER SIZE			DIAGRAM 400/230V, 3 ϕ 4W.SN	
		ϕ A	ϕ B	ϕ C		POLE	AF	AT		
①	35	2400			2-1000W.HPS	2	50	20		
②	25		2400							
③	35			2400						
④	25	2400								
⑤	25		2400							
⑥	16			2400						
⑦	35	2400								
⑧	35		2400							
⑨	25			2400	2-1000W.HPS	2	50	20		
⑩	25	1500			5-250W.HPS	2	50	10		
⑪					SPACE					
⑫					SPACE					
TOTAL		8700	7200	7200	CONNECTED LOAD = 23100 = 33A					
			23100		DEMAND 100% 23100	MAIN FEEDER 3c-35+1c-25mm2 -80mm ϕ CONDUIT				

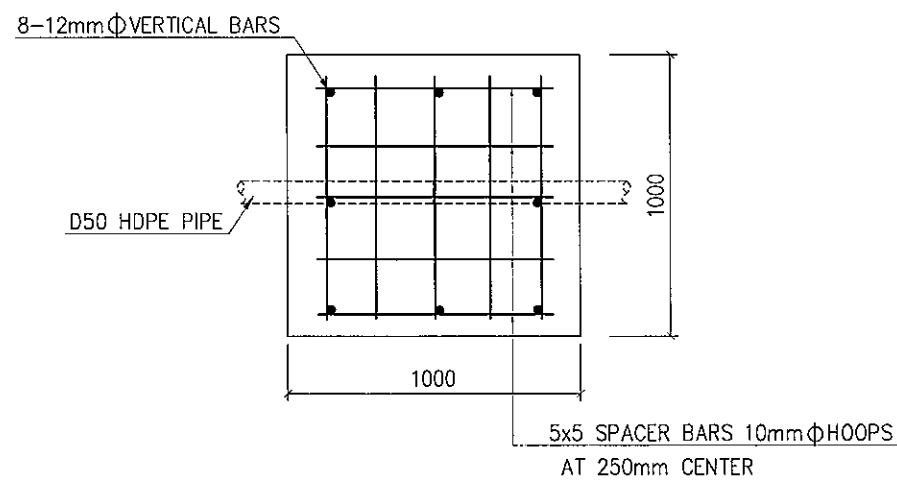
		THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT		DESIGNED BY: TOYOSHIMA Y. DRAWN BY: DO THI MINH CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: 22/ AUG/ 2005 SCALE: -		SECTION: ELECTRIC WORKS SUB-SECTION: EXTERIOR LIGHTING SYSTEM TITLE OF DRAWING: YARD LIGHTING PANEL SCHEDULE (2/2) DWG NO: PAC2-TV-UTY-E-2-003 REV. NO	
REV NO		DATE		DESCRIPTION		BY		APP	
		JICA		JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA			



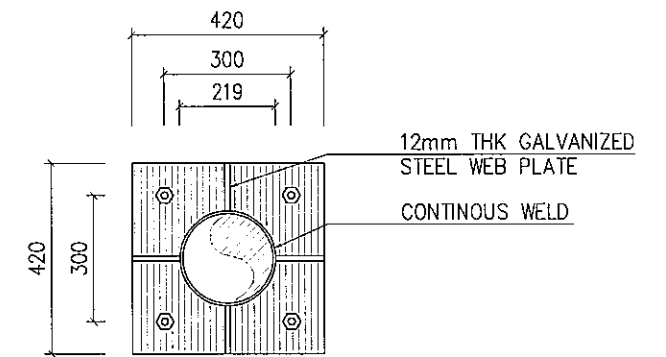
FOUNDATION DETAILS A2
SCALE: 1/15



BASE PLATE DETAIL A4
SCALE: 1/15



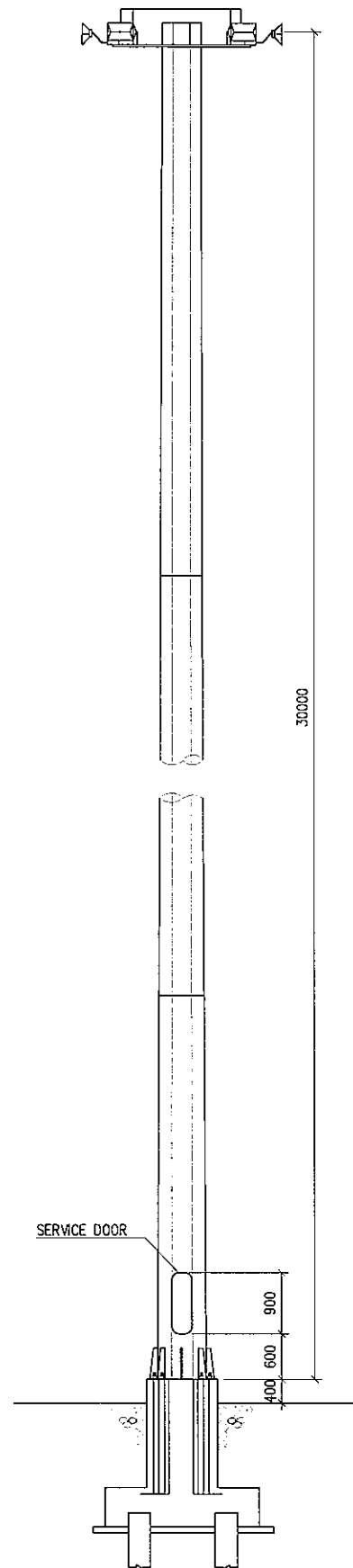
SECTION A3
SCALE: 1/15



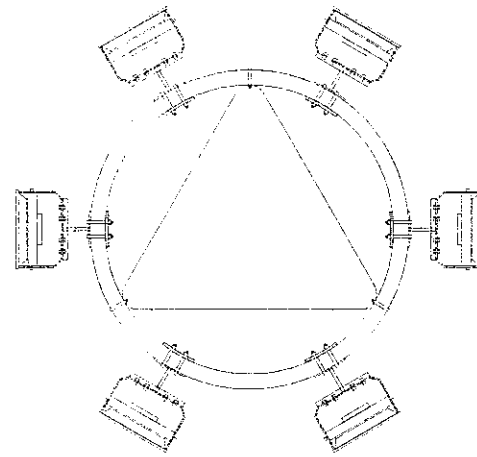
SECTION A5
SCALE: 1/15

TYPICAL LIGHTING POST ELEVATION
SCALE: 1/50

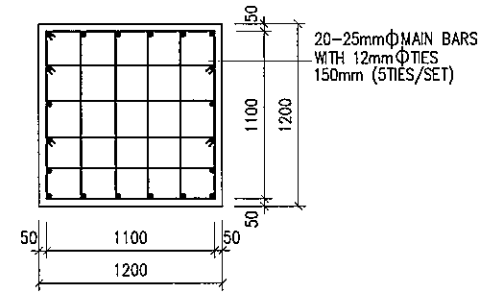
THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85					CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT		DESIGNED BY: TOYOSHIMA Y. DRAWN BY: DO THI VINH CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: 22/ AUG/ 2005 SCALE: 1:15		SECTION: ELECTRIC WORKS SUB-SECTION: EXTERIOR LIGHTING SESTEM TITLE OF DRAWING: DETAIL OF ROAD LIGHT POLE DWG NO: PAC2-TV-UTY-E-2-004		REV. NO
JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)					PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA		1:15		PAC2-TV-UTY-E-2-004		REV. NO
REV NO	DATE	DESCRIPTION	BY	APP							



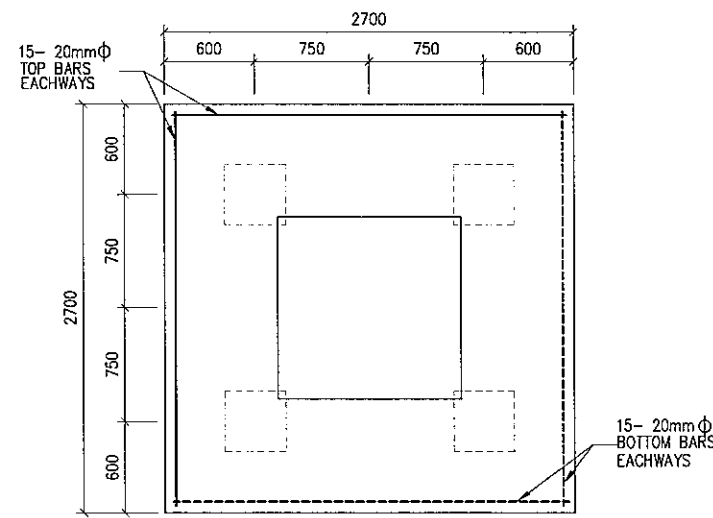
ELEVATION
SCALE: 1/50



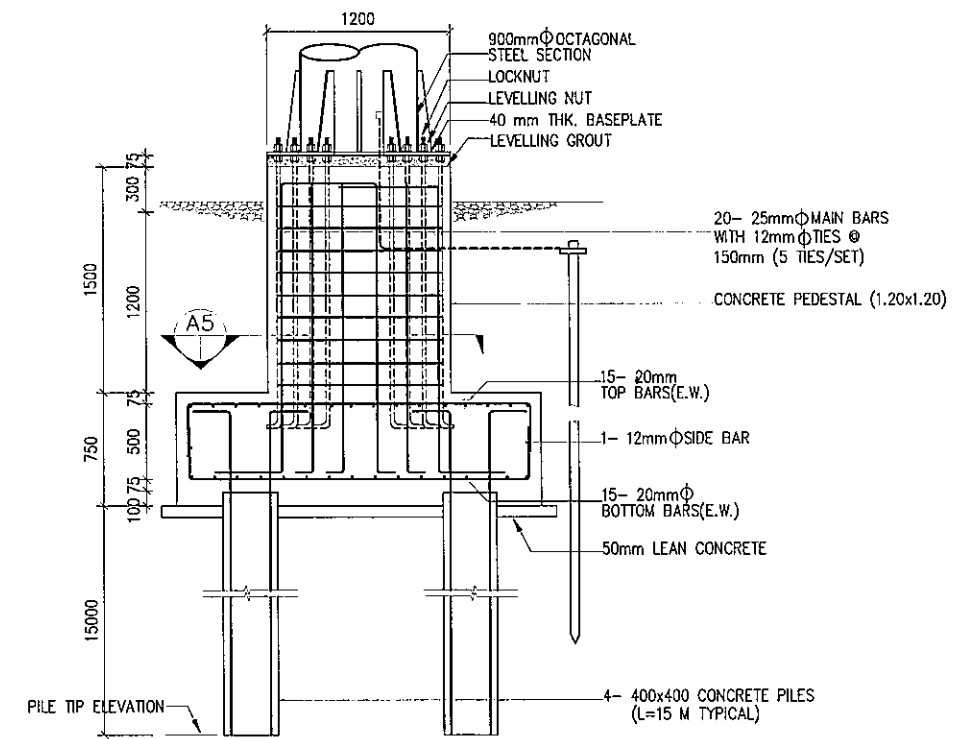
HEAD FRAME DETAIL (TYPICAL)
SCALE: 1/50



A5 PEDESTAL SECTION
SCALE: 1/50



PLAN
SCALE: 1/50



SECTIONAL ELEVATION
SCALE: 1/50

REV NO	DATE	DESCRIPTION	BY	APP

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MINISTRY OF TRANSPORT
PROJECT MANAGEMENT UNIT 85

JICA
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JAPAN PORT CONSULTANT (JPC)
PACIFIC CONSULTANTS INTERNATIONAL (PCI)
INTERNATIONAL DEVELOPMENT SYSTEM (IDS)

CAI MEP – THI VAI INTERNATIONAL PORT
DEVELOPMENT PROJECT







PACKAGE 2
CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR
THI VAI AREA

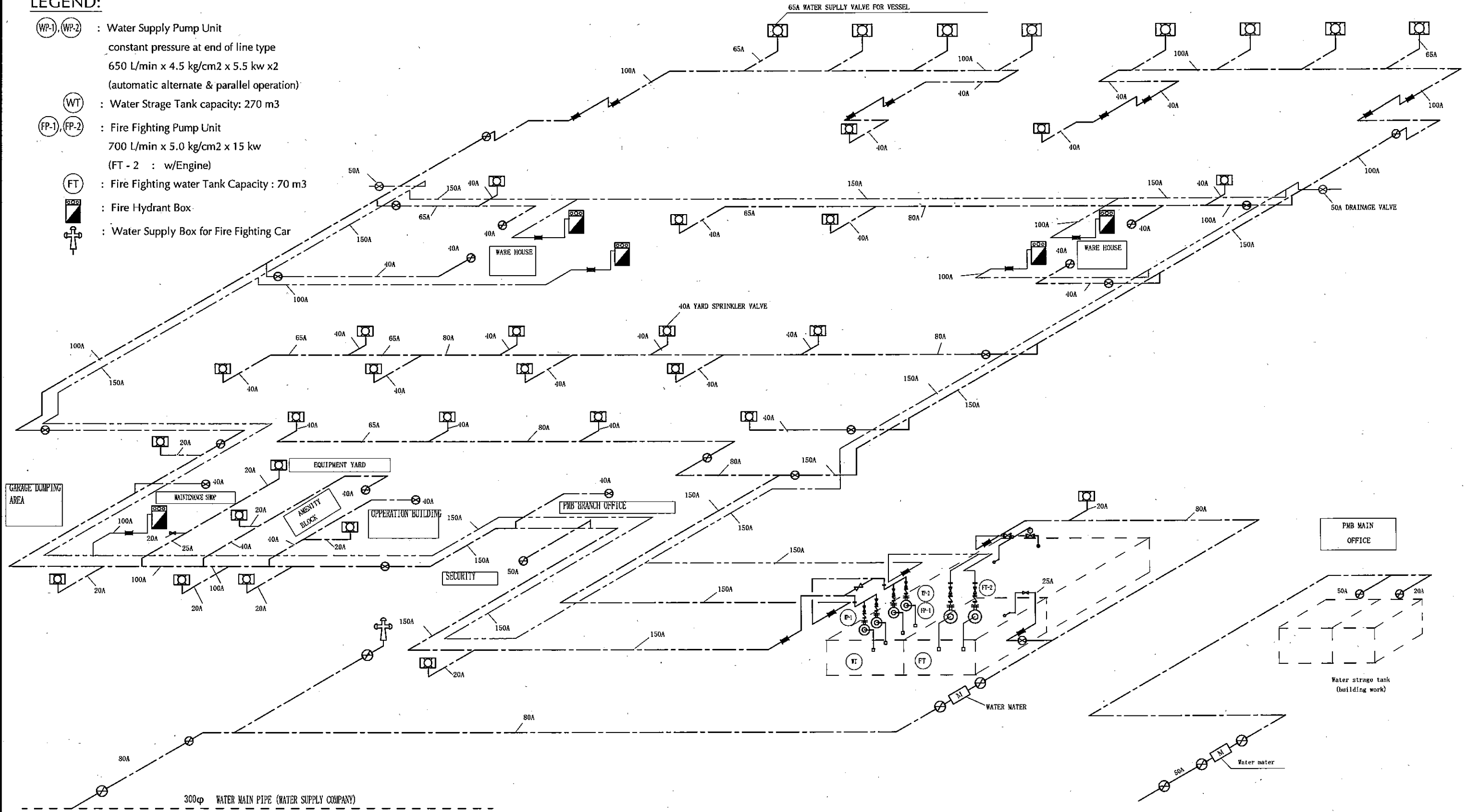
DESIGNED BY: TOYOSHIMA Y.
DRAWN BY: DO THI VINH
CHECKED BY: NAGAO N.
APPROVED BY: NAGAI K.
ISSUE DATE: 22/ AUG/ 2005
SCALE: 1: 50







SECTION: ELECTRIC WORKS
SUB-SECTION: EXTERIOR LIGHTING SESTEM
TITLE OF DRAWING: DETAIL OF HIGHT MAST LIGHT POLE
DWG NO: PAC2-TV-UTY-E-2-005
REV. NO

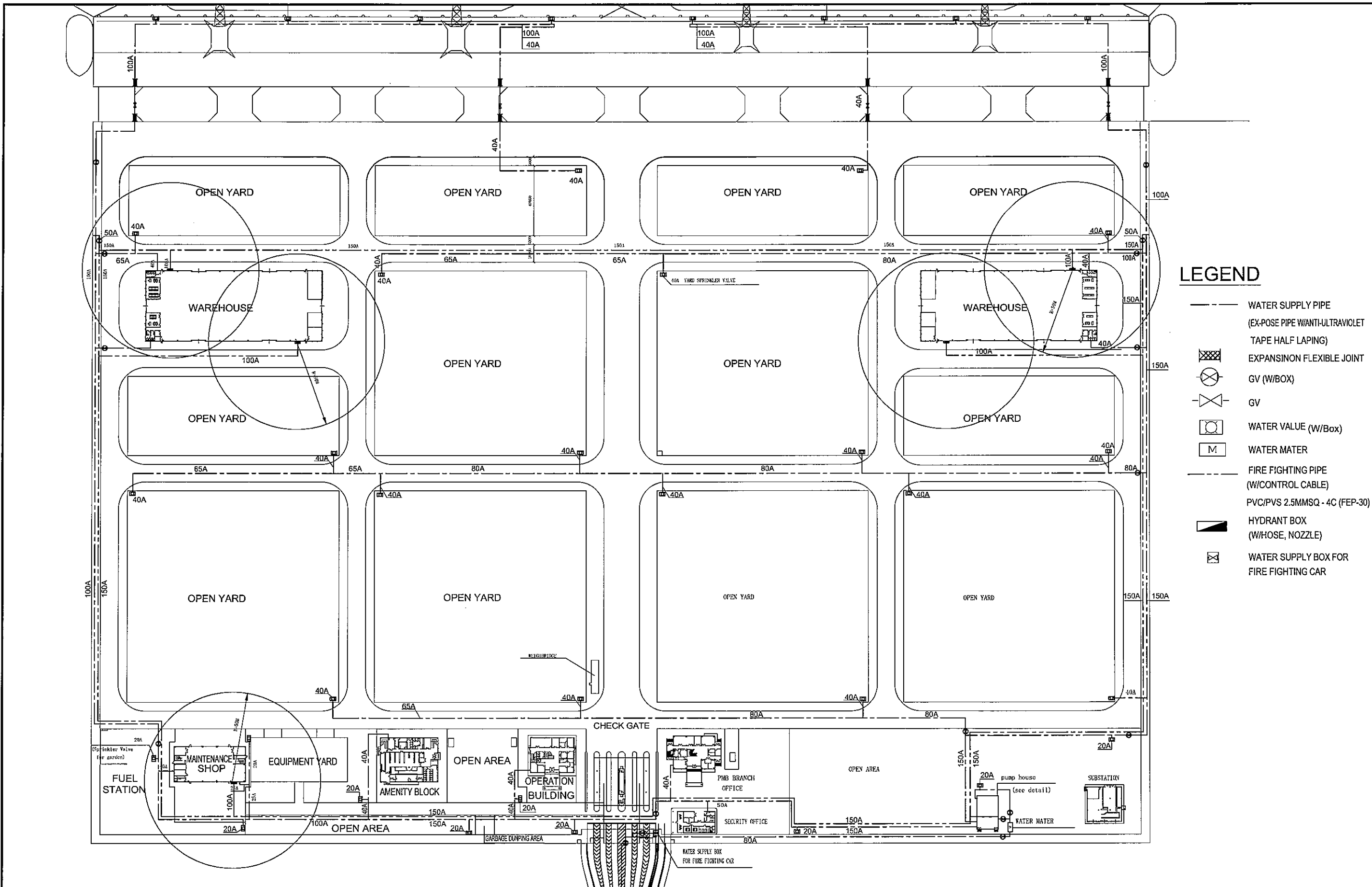
WATER SUPPLY AND FIRE FIGHTING SYSTEM DIAGRAM

LEGEND:

-  : Water Supply Pump Unit
 constant pressure at end of line type
 650 L/min x 4.5 kg/cm² x 5.5 kw x2
 (automatic alternate & parallel operation)
-  : Water Strage Tank capacity: 270 m³
-  : Fire Fighting Pump Unit
 700 L/min x 5.0 kg/cm² x 15 kw
 (FT - 2 : w/Engine)
-  : Fire Fighting water Tank Capacity : 70 m³
-  : Fire Hydrant Box
-  : Water Supply Box for Fire Fighting Car



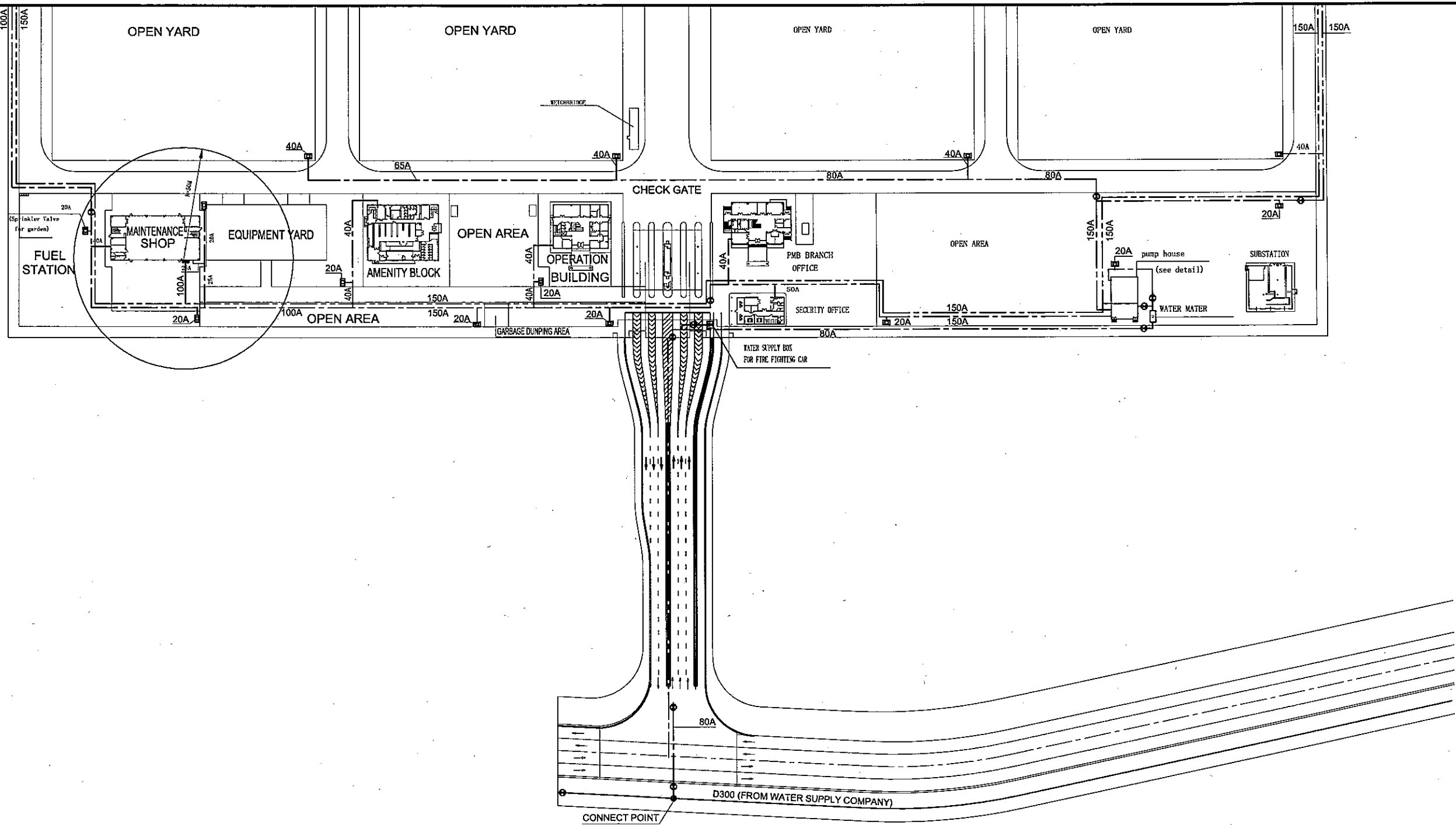
THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85 					CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT		DESIGNED BY: SUYAMA  DRAWN BY: YU SON NAM  CHECKED BY: NAGAI K.  APPROVED BY: NAGAI K.  ISSUE DATE: 10/JAN/2006 SCALE: Not to scale		SECTION: UTILITY WORK SUB-SECTION: WATER SUPPLY AND FIRE FIGHTING SYSTEM TITLE OF DRAWING: SYSTEM DIAGRAM	
 JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)					PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA		DWG NO: PAC2-TV-UTY-U-1-001		REV. NO	
REV NO	DATE	DESCRIPTION	BY	APP						



LEGEND

- WATER SUPPLY PIPE
(EX-POSE PIPE W/ANTI-ULTRAVIOLET
TAPE HALF LAPPING)
- ⊗ EXPANSION FLEXIBLE JOINT
- ⊗ GV (W/BOX)
- ⊗ GV
- ⊗ WATER VALVE (W/BOX)
- M WATER METER
- FIRE FIGHTING PIPE
(W/CONTROL CABLE)
PVC/PVS 2.5MMSQ - 4C (FEP-30)
- ▣ HYDRANT BOX
(W/HOSE, NOZZLE)
- ⊗ WATER SUPPLY BOX FOR
FIRE FIGHTING CAR

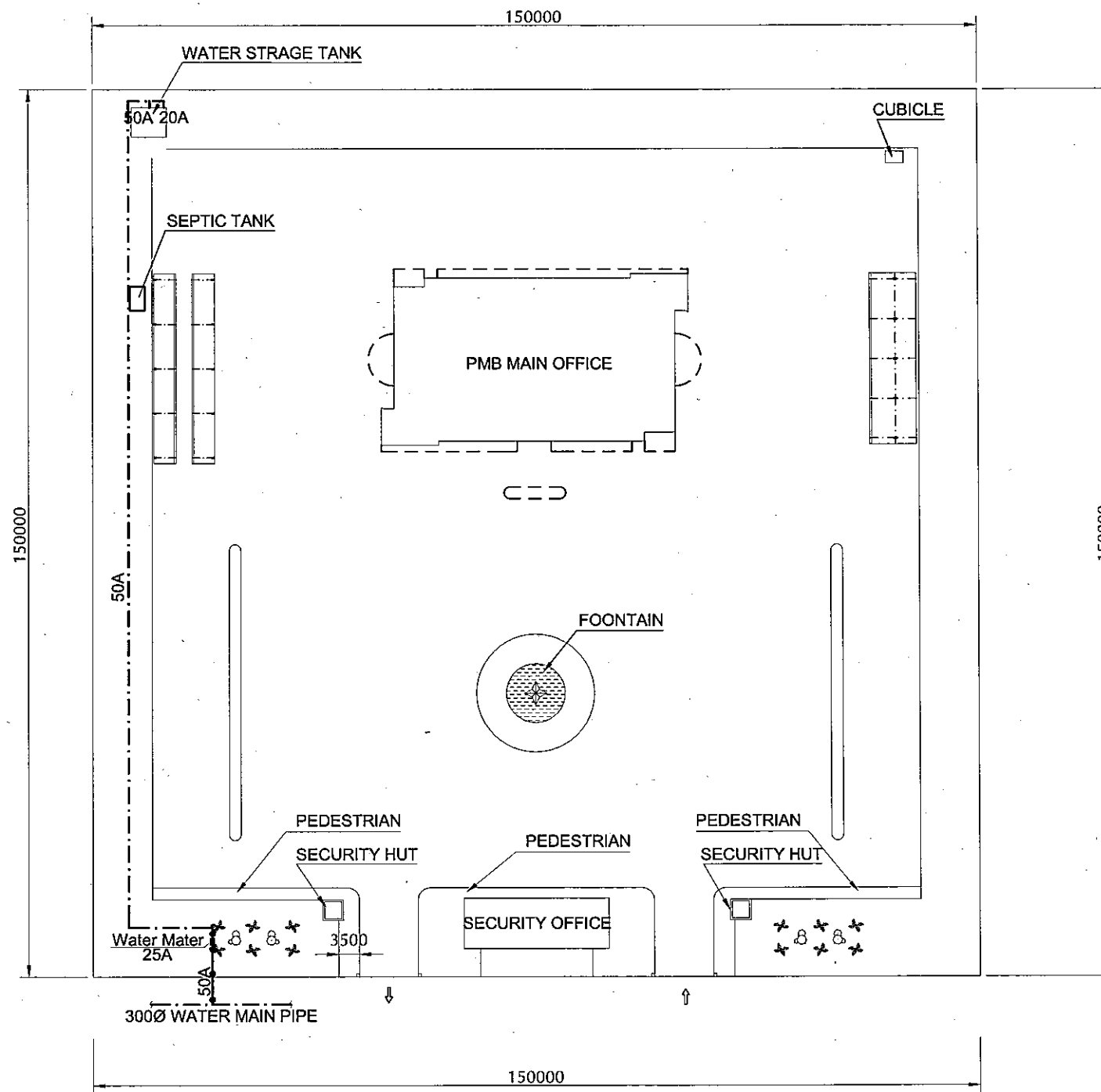
<p>THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>					<p>CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT</p>			<p>DESIGNED BY: SUYAMA Y DRAWN BY: VU SON NAM CHECKED BY: NAGAI K APPROVED BY: NAGAI K ISSUE DATE: 10/JAN/2006 SCALE: 1/2000</p>		<p>SECTION: SUB-SECTION: TITLE OF DRAWING: DWG NO:</p>		<p>UTILITY WORK WATER SUPPLY AND FIRE FIGHTING SYSTEM SYSTEM LAYOUT FOR TERMINAL (1) PAC2-TV-UTY-U-1-002</p>	
<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</p>					<p>PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA</p>			<p>REV. NO</p>					
REV NO	DATE	DESCRIPTION	BY	APP									



LEGEND

- Water supply pipe
(EX-POSE PIPE W/ANTI-ULTRAVIOLET
TAPE HALF LAPPING)
- 300Ø WATER MAIN PIPE (WATER SUPPLY COMPANY)
- ⊗ EXPANSION FLEXIBLE JOINT
- ⊗ GV (w/Box)
- ⊗ GV
- ⊗ W/Box valve
- M Water meter
- Fire fighting pipe
(w/control cable)
PVC/PVS 2.5mmSq - 4C (FEP-30)
- ▬ Hydrant box
(w/hose, nozzle)
- ⊗ Water Supply Box for
Fire Fighting Car

<p align="center">THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 95</p>					<p align="center">CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT</p>		<p>DESIGNED BY: SUYAMA Y.</p>		<p>SECTION: UTILITY WORK</p>	
<p align="center">JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</p>					<p align="center">PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA</p>		<p>DRAWN BY: VU SON NAM</p>		<p>SUB-SECTION: WATER SUPPLY AND FIRE FIGHTING SYSTEM</p>	
							<p>CHECKED BY: NAGAO N.</p>		<p>TITLE OF DRAWING: SYSTEM LAYOUT FOR TERMINAL (2)</p>	
							<p>APPROVED BY: NAGAI K.</p>		<p>DWG NO: PAC2-TV-UTY-U-1-003</p>	
							<p>ISSUE DATE: 10/JAN/2006</p>		<p>REV. NO</p>	
							<p>SCALE: 1/2000</p>			
REV NO	DATE	DESCRIPTION	BY	APP						



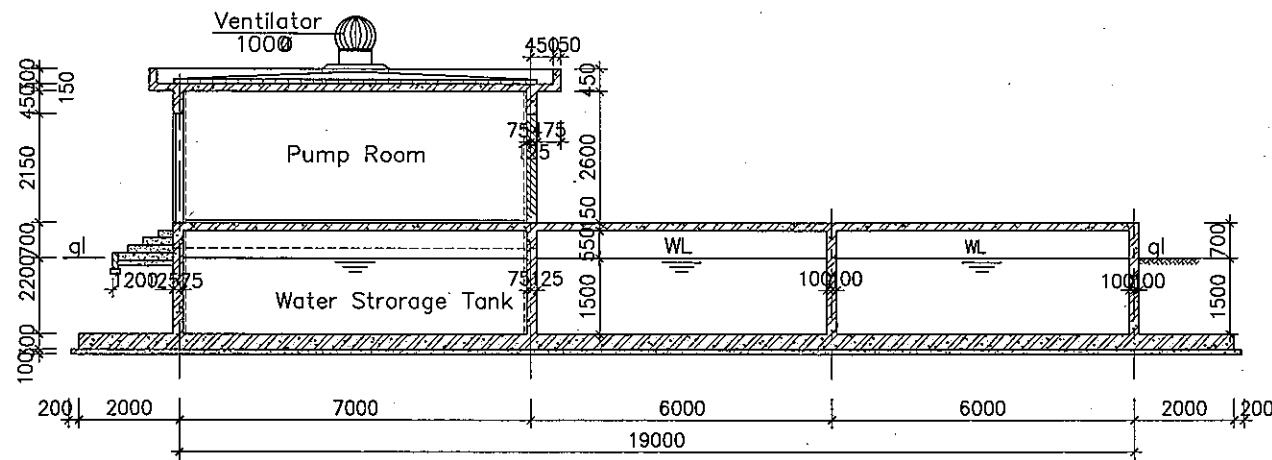
SCALE 1:1000

LEGEND

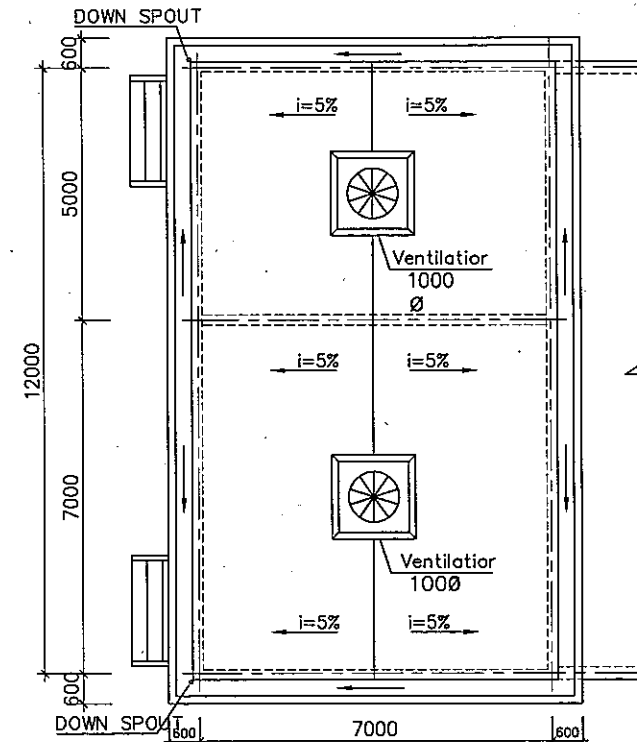
- Water supply pipe
- ⊗ GV (w/Box)
- ⊗ GV
- M Water meter /W(BOX)

					THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT		DESIGNED BY: SUYAMA Y. DRAWN BY: VU SON NAM CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: 18/JAN/2006 SCALE: 1/500		SECTION: UTILITY WORK SUB-SECTION: WATER SUPPLY AND FIRE FIGHTING SYSTEM TITLE OF DRAWING: SYSTEM LAYOUT FOR PMB MAIN OFFICE DWG NO: PAC2-TV-UTY-U-1-004 REV. NO	
REV NO	DATE	DESCRIPTION	BY	APP	JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE 1 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR CAI MEP AREA					

Elevation Section



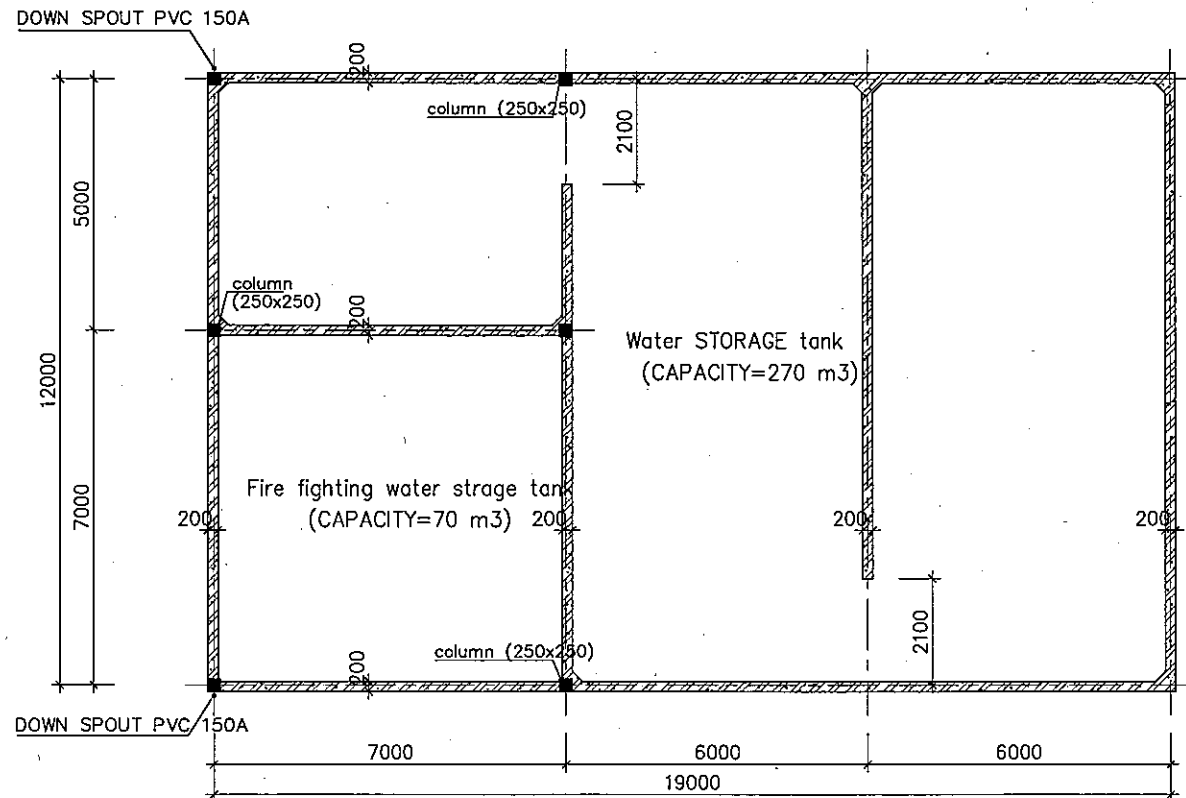
Roof Drainage Plan



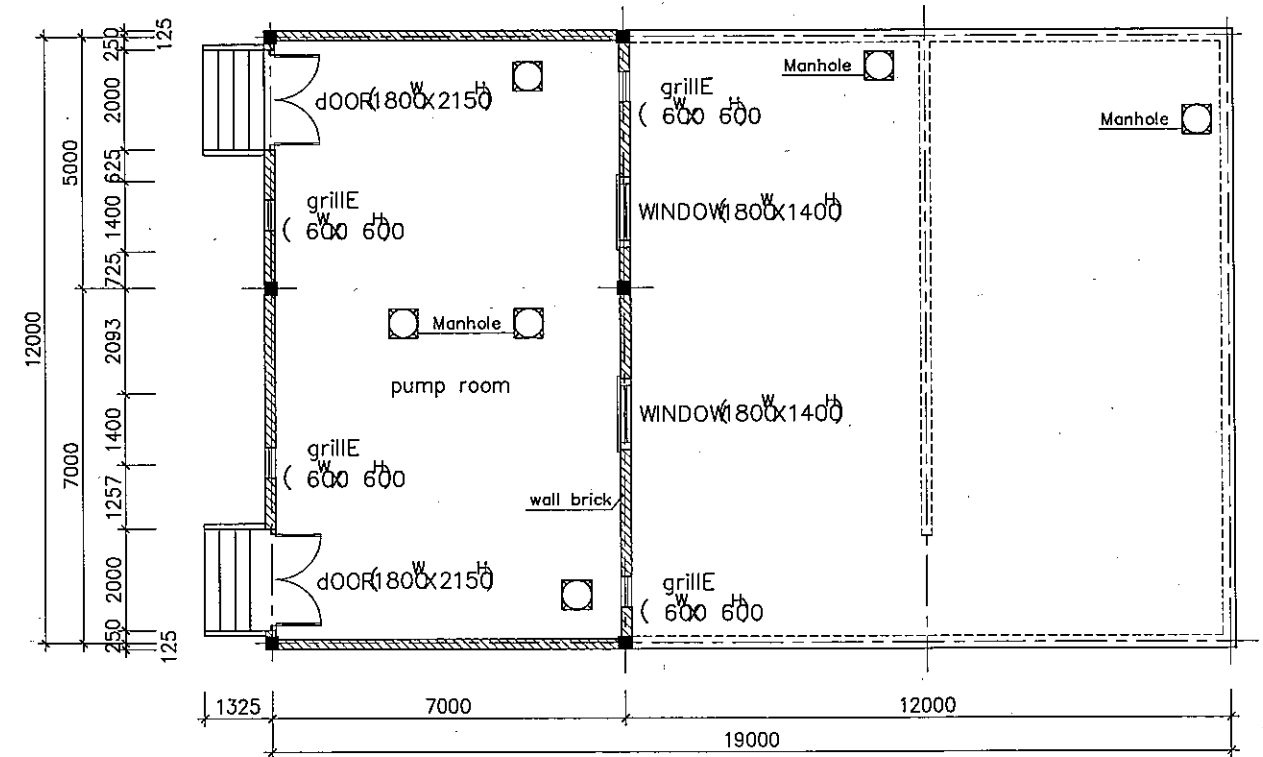
LEGEND:

- INTERIOR**
- Water tank: Floor waterproofing cement mortar thick 30mm
 - Wall Chemical membrane waterproofing
 - 30mm
 - floor cement sand screed thick 30mm
 - Wall plaster plumb surface with mortar thick 15mm
 - ceiling plaster plumb surface with mortar thick 15mm
- exterior**
- roof cement sand screed thick 30mm
 - Wall plaster plumb surface with mortar thick 15mm
 - e.p skirting plaster plumb surface with mortar thick 15mm
 - e.p
- Door and windows:**
- d1 steel flush door 1800x2150 o.p
 - w1 aluminium horizontal sliding window transparent glass 6.8mm thick
 - w2 aluminium fixed louver 600x600
- Structure:**
- fs (fck' = 24N/mm²) THICK 300mm
 - wall (fck' = 24N/mm²) THICK 200mm
 - BRICK THICK 190mm
 - SLAB (fck' = 24N/mm²) THICK 150mm
 - ROOF SLAB (fck' = 24N/mm²) THICK 150mm
 - LEAN CONCRETE (fck' = 24N/mm²) THICK 100mm

Cross Section Water Tank

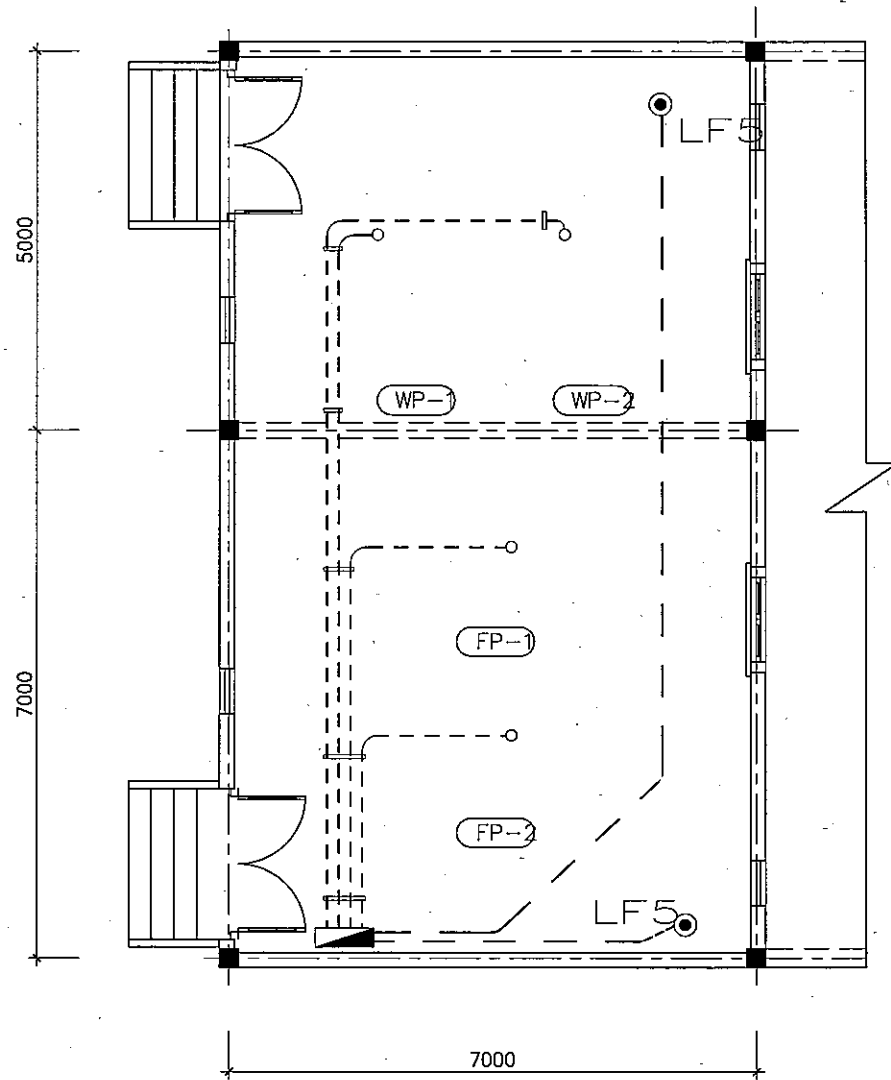


Pump-Room Plan

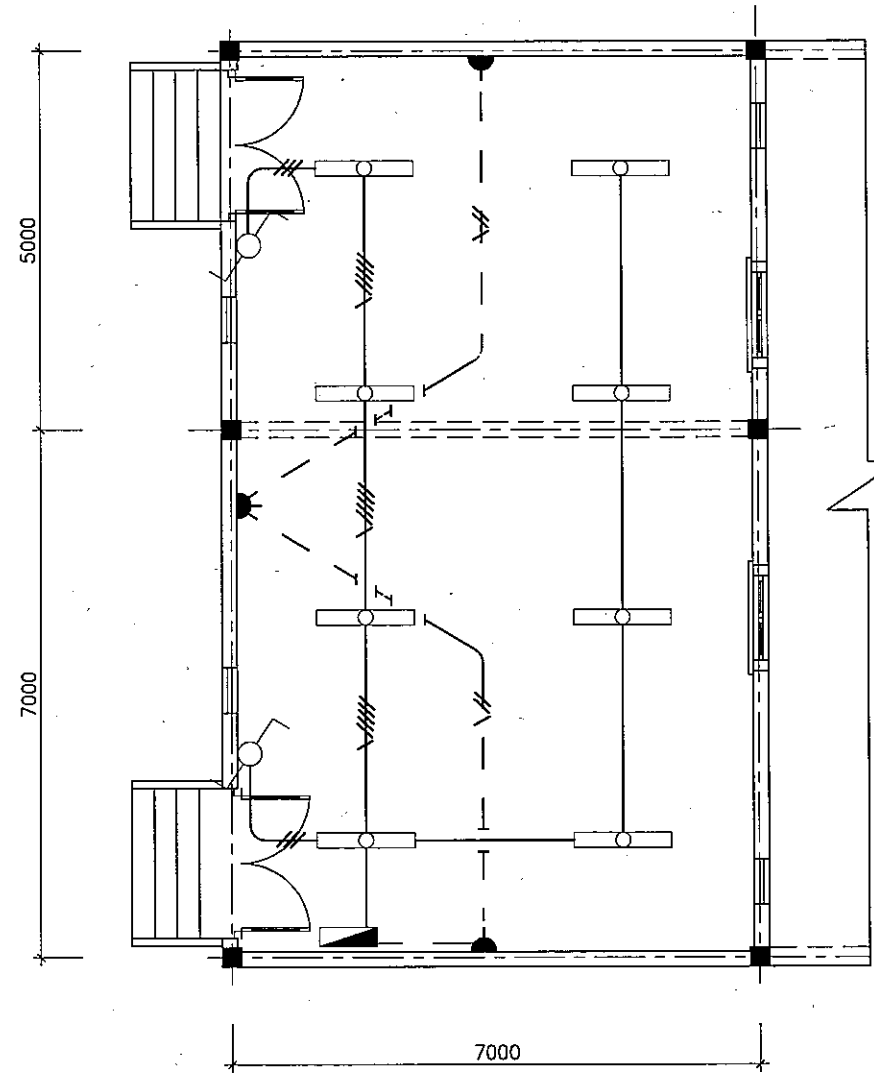


<p>THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>					<p>CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT</p>		<p>DESIGNED BY: SUYAMA Y DRAWN BY: VU SON NAM CHECKED BY: NAGAO N APPROVED BY: NAGAI K ISSUE DATE: 10/JAN/2006 SCALE: 1/150</p>		<p>SECTION: UTILITY WORK SUB-SECTION: WATER SUPPLY AND FIRE FIGHTING SYSTEM TITLE OF DRAWING: DETAILS OF WATER TANK AND PUMP ROOM (STRUCTURE) DWG NO: PAC2-TV-UTY-U-1-006 REV. NO</p>	
<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</p>					<p>PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA</p>					
REV NO	DATE	DESCRIPTION	BY	APP						

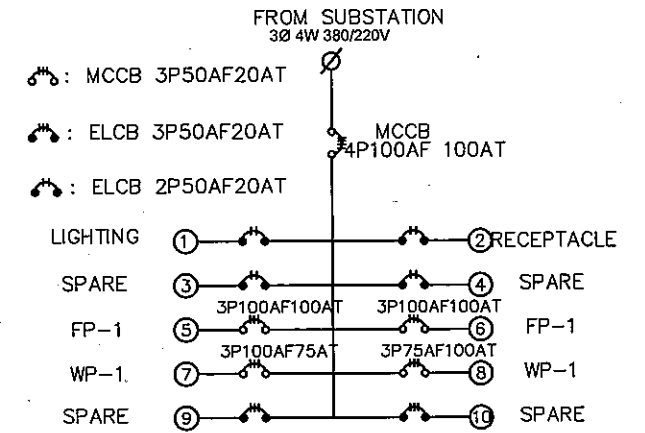
Electric Supply Plan



Lighting Plan



DISTRIBUTION SWITCH BOARD LPP

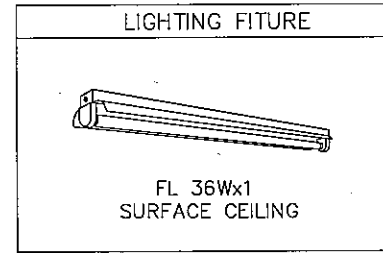


NOTES: UNLESS OTHERWISE NOTED, ALL OF THE CONDUIT WIRING AS FOLLOWS.

- PVC 2.5 φmm * 2 E2.5 (VE16)
- PVC 2.5 φmm * 3 (VE16)
- PVC 2.5 φmm * 5 -E2.5 (VE22)
- PVC 4.0 φmm * 2 E2.5 (VE22)

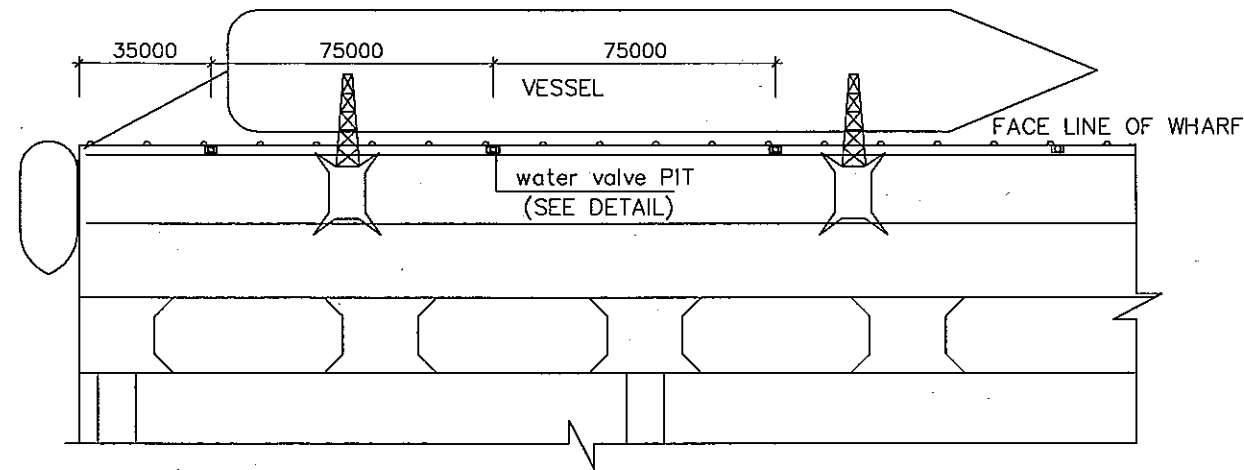
WIRING SCHEDULE OF POWER SUPPLY				
Name of Equipment		Cable Size	Conduit Size	Remarks
Fire Fighting Pump	FP-1 FP-2	PVC/PVC10mm ² -3CE6.0	PVC36	3Phase 400V 15KW
Water Supply Pump	WP-1 WP-2	PVC/PVC6.0mm ² -3CE6.0	PVC36	3Phase 400V 11KW
Water Level Detector Switch	LF5	PVC/PVC2.5mm ² -5c	PVC22	5 POLE

LEGEND		
Symbol	Description	Remarks
	FLUORESCENT LIGHT	CEILING MOUNTED
	SWITCH	250V-15A 3 WAY
	RECEPTACLE	220V-15A 3 PIN SINGLE
	DISTRIBUTION SWITCH BOARD	WALL MOUNTED
	CONDUIT WIRING	CONCEALED IN CEILING or WALL
	CONDUIT WIRING	CONCEALED IN FLOOR

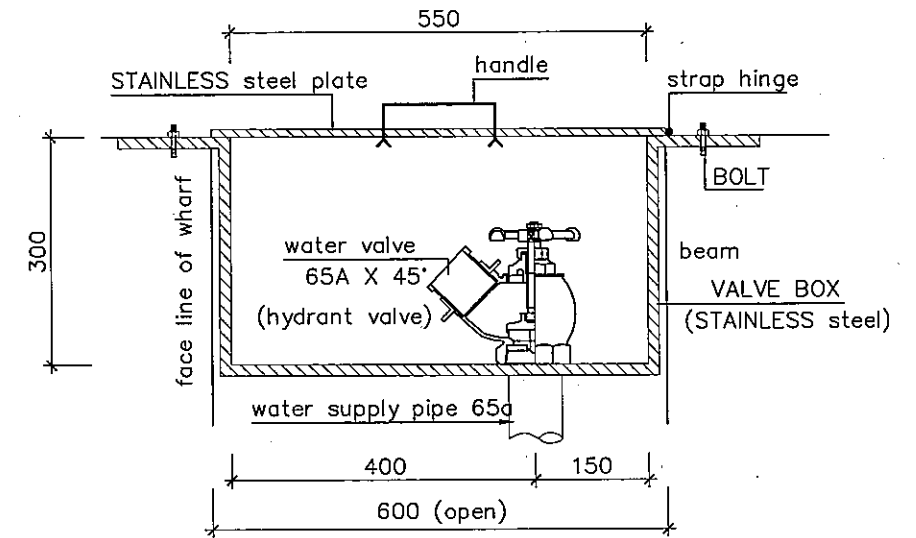


		THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT		DESIGNED BY: SUYAMA V. DRAWN BY: VU SON NAM CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: 10/JAN/2006 SCALE: 1/100		SECTION: UTILITY WORK SUB-SECTION: WATER SUPPLY AND FIRE FIGHTING SYSTEM TITLE OF DRAWING: DETAILS OF WATER TANK AND PUMP ROOM (ELECTRICITY)	
		JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA		DWG NO: PAC2-TV-UTY-U-1-007		REV. NO	
REV. NO	DATE	DESCRIPTION	BY	APP					

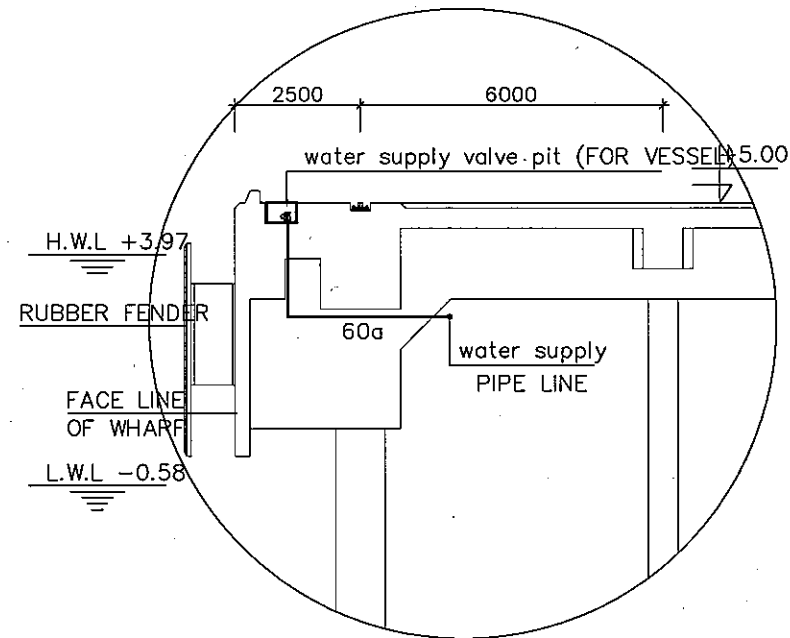
plan of water valve PIT for vessel



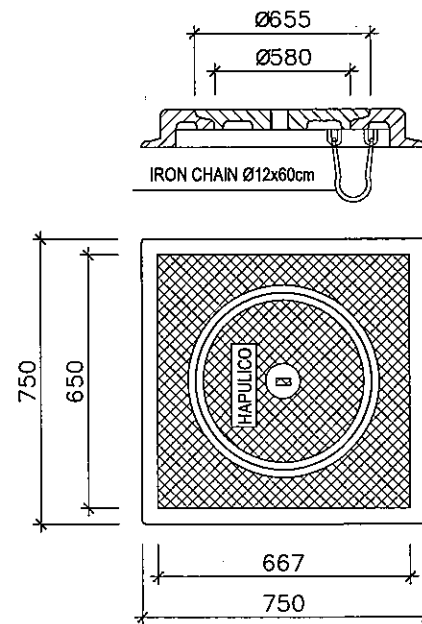
DETAIL OF water supply valve pit (FOR VESSEL)



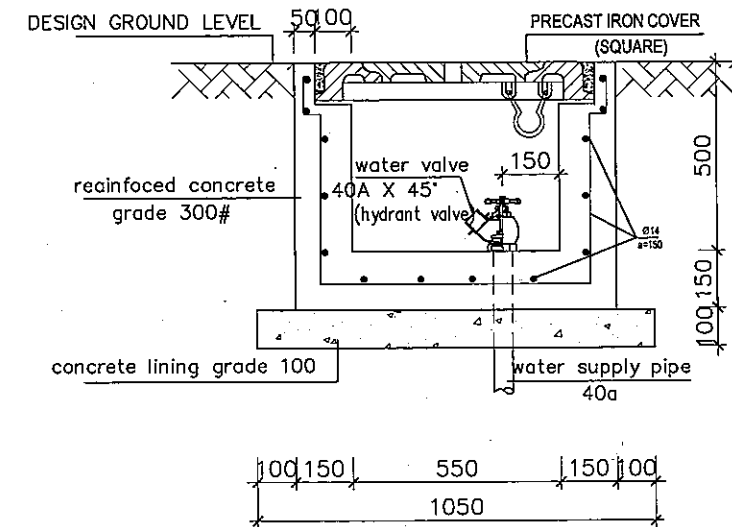
CROSS SECTION



PRECAST-IRON COVER (SQUARE)



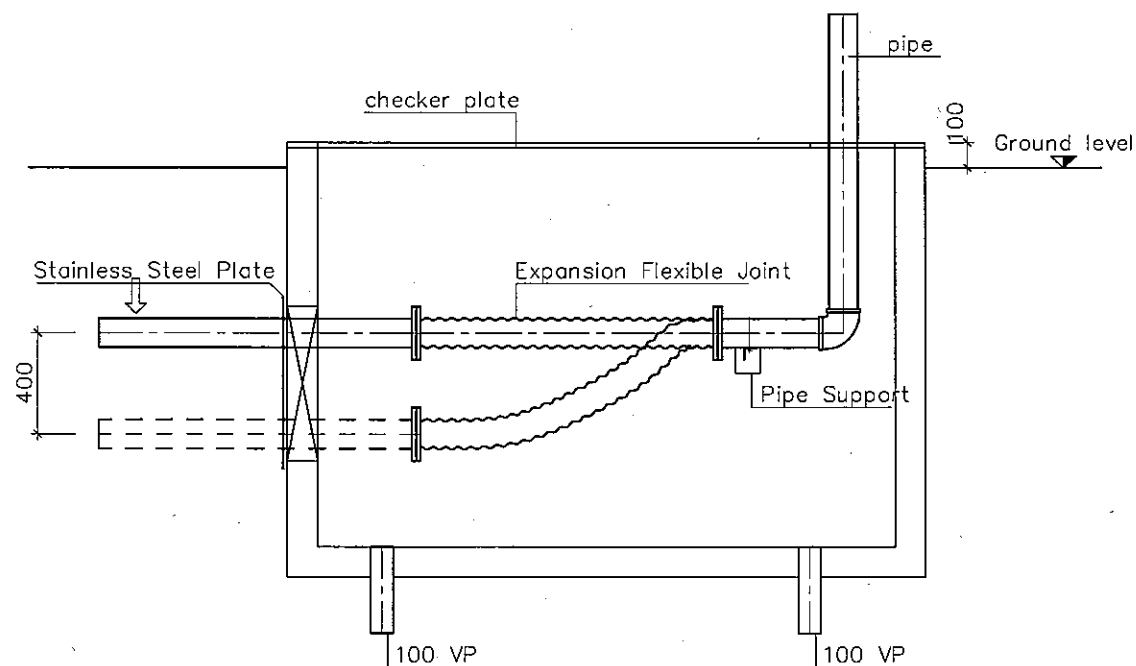
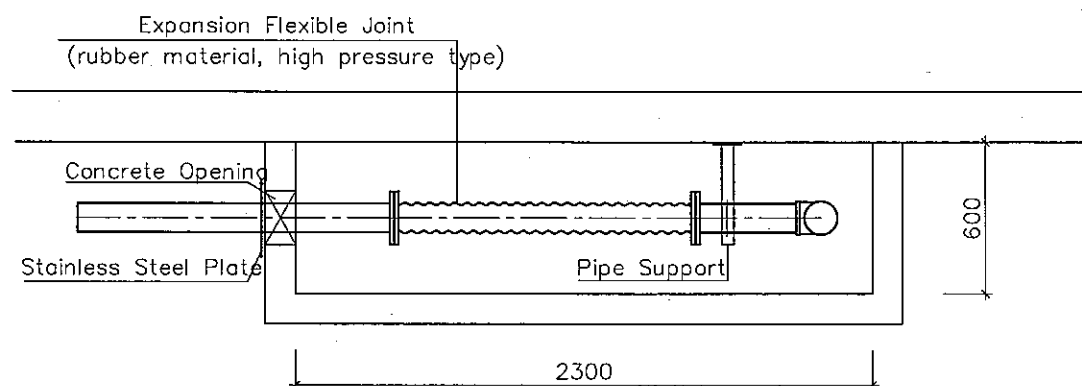
DETAIL OF WATER VALVE PIT



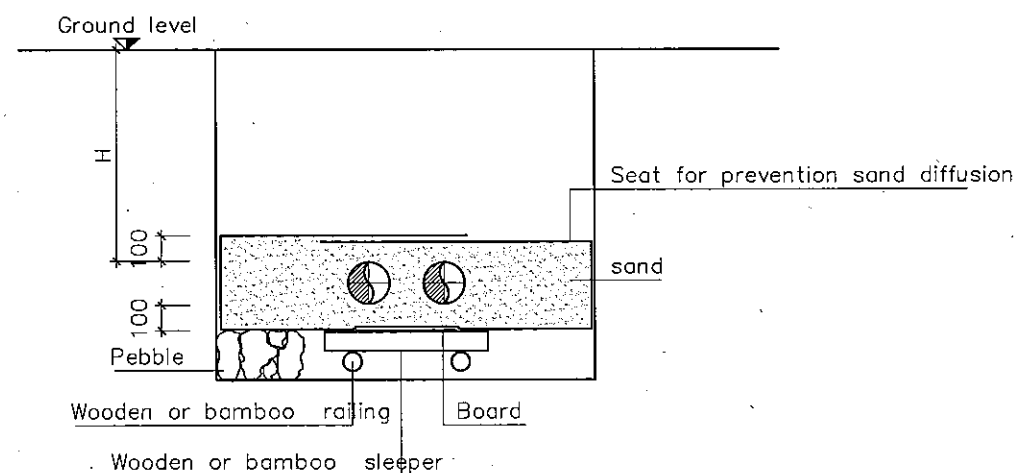
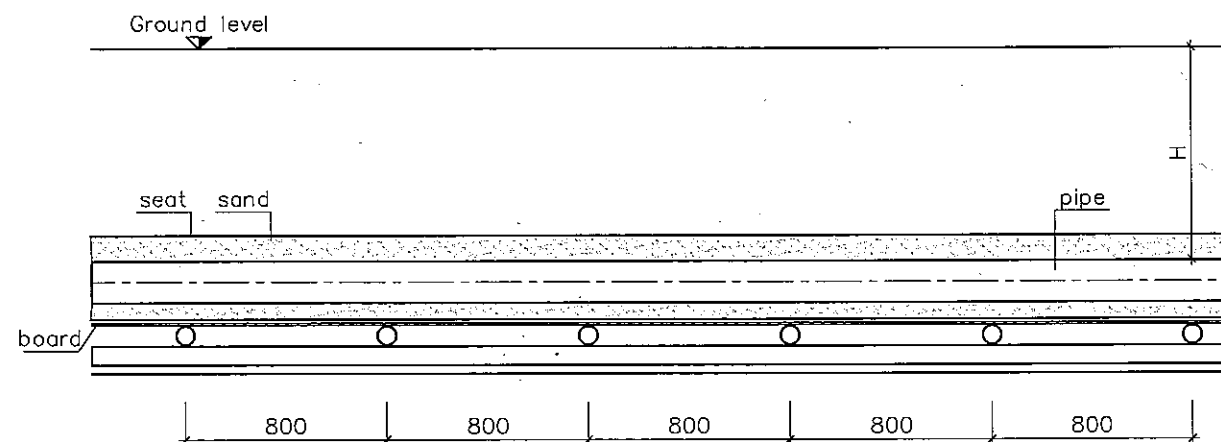
<p align="center">THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>					<p align="center">CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT</p>		<p>DESIGNED BY: SUYAMA Y DRAWN BY: VU SON NAM CHECKED BY: NAGAI K APPROVED BY: NAGAI K ISSUE DATE: 10/JAN/2006 SCALE: 1/2000, 1/150 1/20, 1/10</p>		<p>SECTION: UTILITY WORK SUB-SECTION: WATER SUPPLY AND FIRE FIGHTING SYSTEM TITLE OF DRAWING: DETAILS OF WATER VALVE DWG NO: PAC2-TV-UTY-U-1-008 REV. NO</p>	
<p align="center">JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</p>					<p align="center">PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA</p>					
REV NO	DATE	DESCRIPTION	BY	APP						

Counter Measure Of Ground Subsidence

Connection to the building and tank



under ground pipe

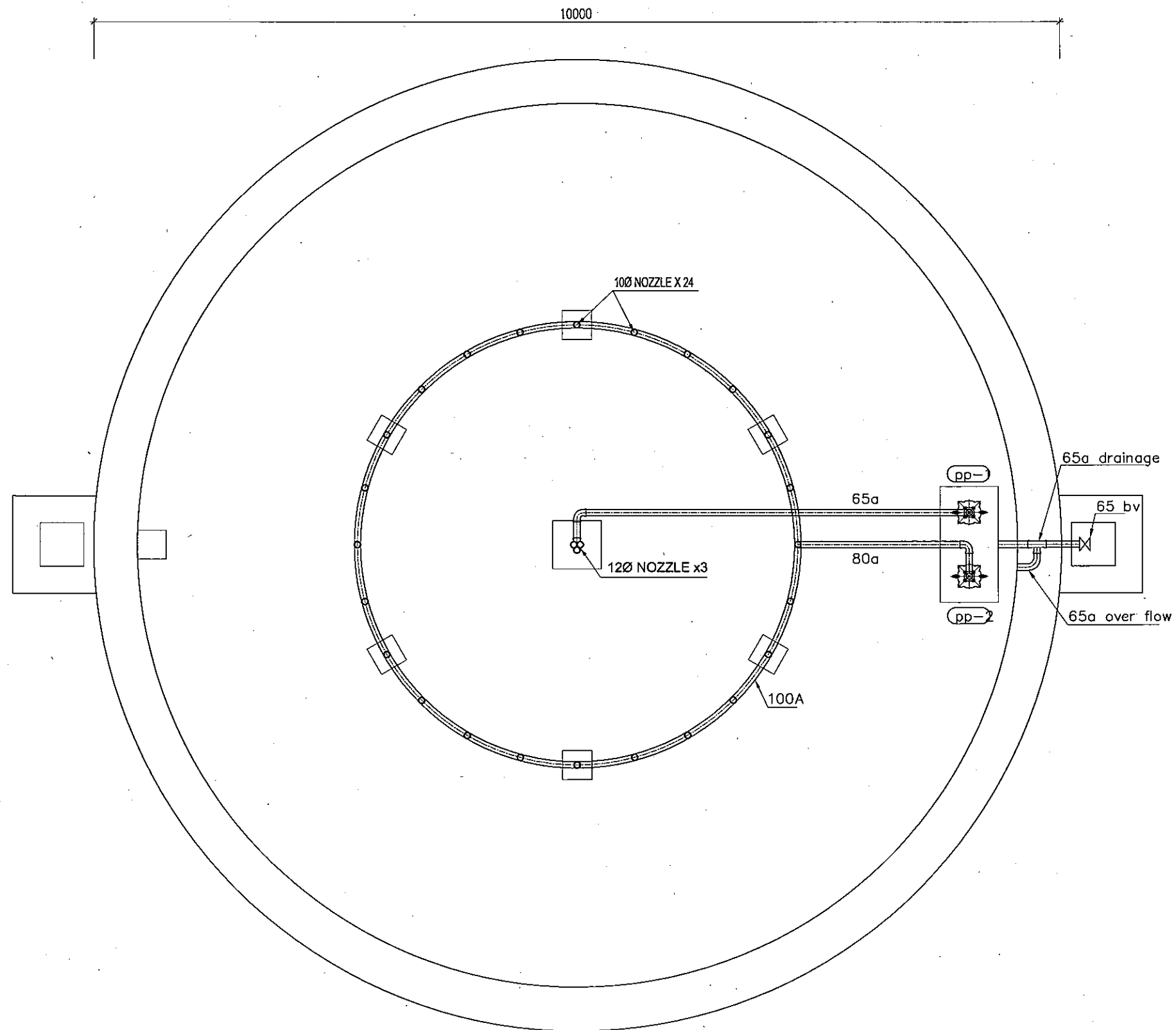


NOTES:

- REFER TO GENERAL layout.
- Expansion flexible joint used rubber material, high pressure type.
- h=1200: truck traffic zone.
- h=900: other zone.

THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85					CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT		DESIGNED BY: SUYAMA Y. DRAWN BY: VU SON NAM CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: 10/JAN/2006 SCALE: 1/30		SECTION: UTILITY WORK SUB-SECTION: WATER SUPPLY AND FIRE FIGHTING SYSTEM TITLE OF DRAWING: COUNTERMEASURE OF GROUND SUBSIDENCE	
JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)					PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA		DWG NO: PAC2-TV-UTY-U-1-009		REV. NO	
REV NO	DATE	DESCRIPTION	BY	APP						

FOUNTAIN SYSTEM OF PMB MAIN OFFICE



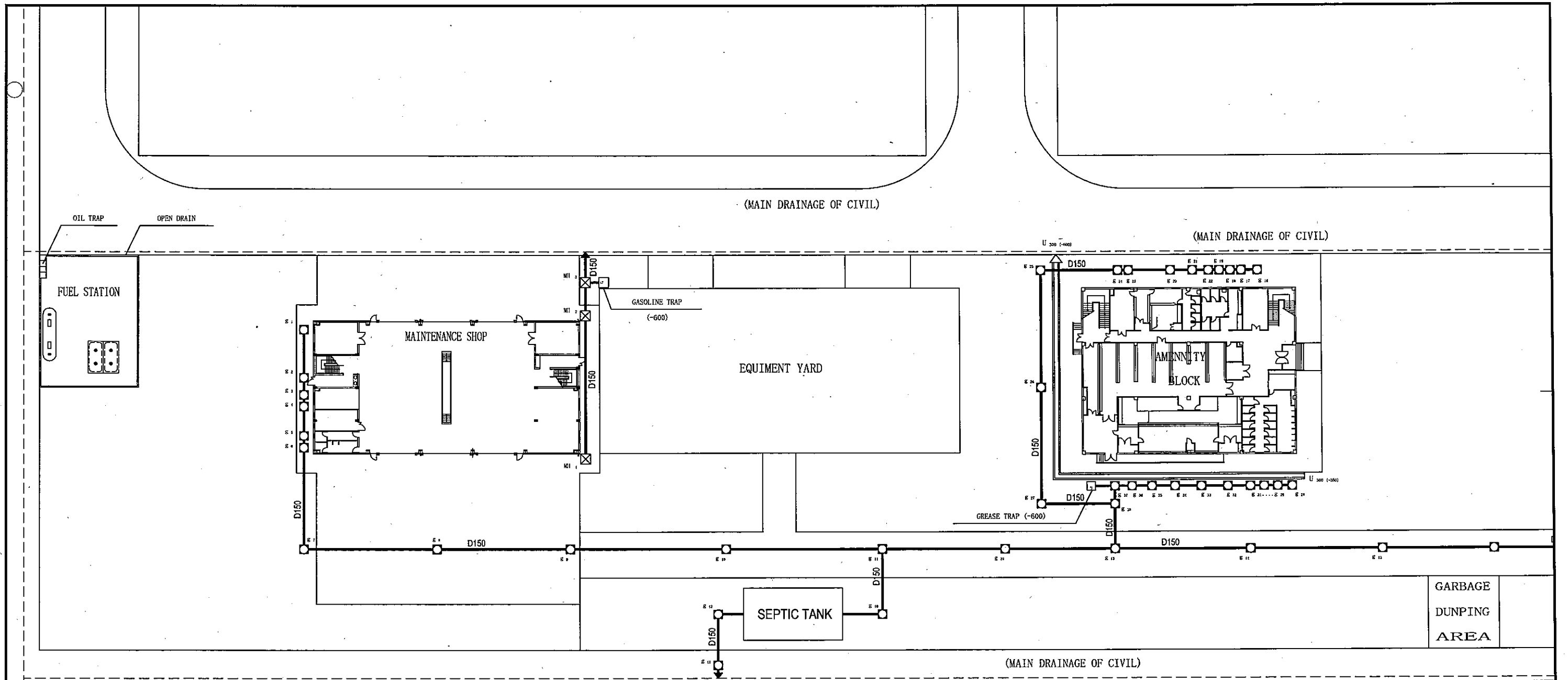
LEGEND:

- (PP-1) : SUBMERGE PUMP
240 l/min x 10 mAq x 2.2 Kw
- (PP-2) : SUBMERGE PUMP
960 l/min x 8 mAq x 3.7 Kw

NOTE:

- FOUNTAIN PIPE: COPPER PIPE L TYPE

THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85					CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT			DESIGNED BY: SUYAMA Y. DRAWN BY: VU SON NAM CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: 10/JAN/2006 SCALE:		SECTION: UTILITY WORK SUB-SECTION: WATER SUPPLY AND FIRE FIGHTING SYSTEM TITLE OF DRAWING: FOUNTAIN SYSTEM OF PMB MAIN OFFICE	
JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)					PACKAGE 1 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR CAI MEP AREA			DWG NO: PAC2-TV-UTY-U-1-010		REV. NO	
REV NO	DATE	DESCRIPTION	BY	APP							



LIST OF COMPONENTS

No	NAME	FIGURE	DEPTH H (M)	No	NAME	FIGURE	DEPTH H (M)	No	NAME	FIGURE	DEPTH H (M)	No	NAME	FIGURE	DEPTH H (M)	No	NAME	FIGURE	DEPTH H (M)	No	NAME	FIGURE	DEPTH H (M)
1	G1	[Symbol]	-600	9	G9a	[Symbol]	-600	17	G14	[Symbol]	-2440	25	G22	[Symbol]	-870	33	G30	[Symbol]	-720	41	G36a	[Symbol]	-600
2	G3	[Symbol]	-730	10	G9b	[Symbol]	-680	18	G15	[Symbol]	-2700	26	G23	[Symbol]	-970	34	G31	[Symbol]	-780	42	G37	[Symbol]	-1120
3	G4	[Symbol]	-760	11	G9c	[Symbol]	-760	19	G16	[Symbol]	-600	27	G24	[Symbol]	-1000	35	G32	[Symbol]	-840	43	G38	[Symbol]	-1750
4	G5	[Symbol]	-830	12	G9d	[Symbol]	-850	20	G17	[Symbol]	-650	28	G25	[Symbol]	-1150	36	G32a	[Symbol]	-890	44	G39	[Symbol]	-2950
5	G6	[Symbol]	-900	13	G10	[Symbol]	-2050	21	G18	[Symbol]	-680	29	G26	[Symbol]	-1380	37	G33	[Symbol]	-930	45	G40	[Symbol]	-3340
6	G7	[Symbol]	-1150	14	G11	[Symbol]	-3200	22	G19	[Symbol]	-710	30	G27	[Symbol]	-1610	38	G34	[Symbol]	-980	46	G41	[Symbol]	-900
7	G8	[Symbol]	-1450	15	G12	[Symbol]	-1920	23	G20	[Symbol]	-750	31	G28	[Symbol]	-600	39	G35	[Symbol]	-1030	48	G42	[Symbol]	-750
8	G9	[Symbol]	-1750	16	G13	[Symbol]	-2180	24	G21	[Symbol]	-810	32	G29	[Symbol]	-660	40	G36	[Symbol]	-1080				

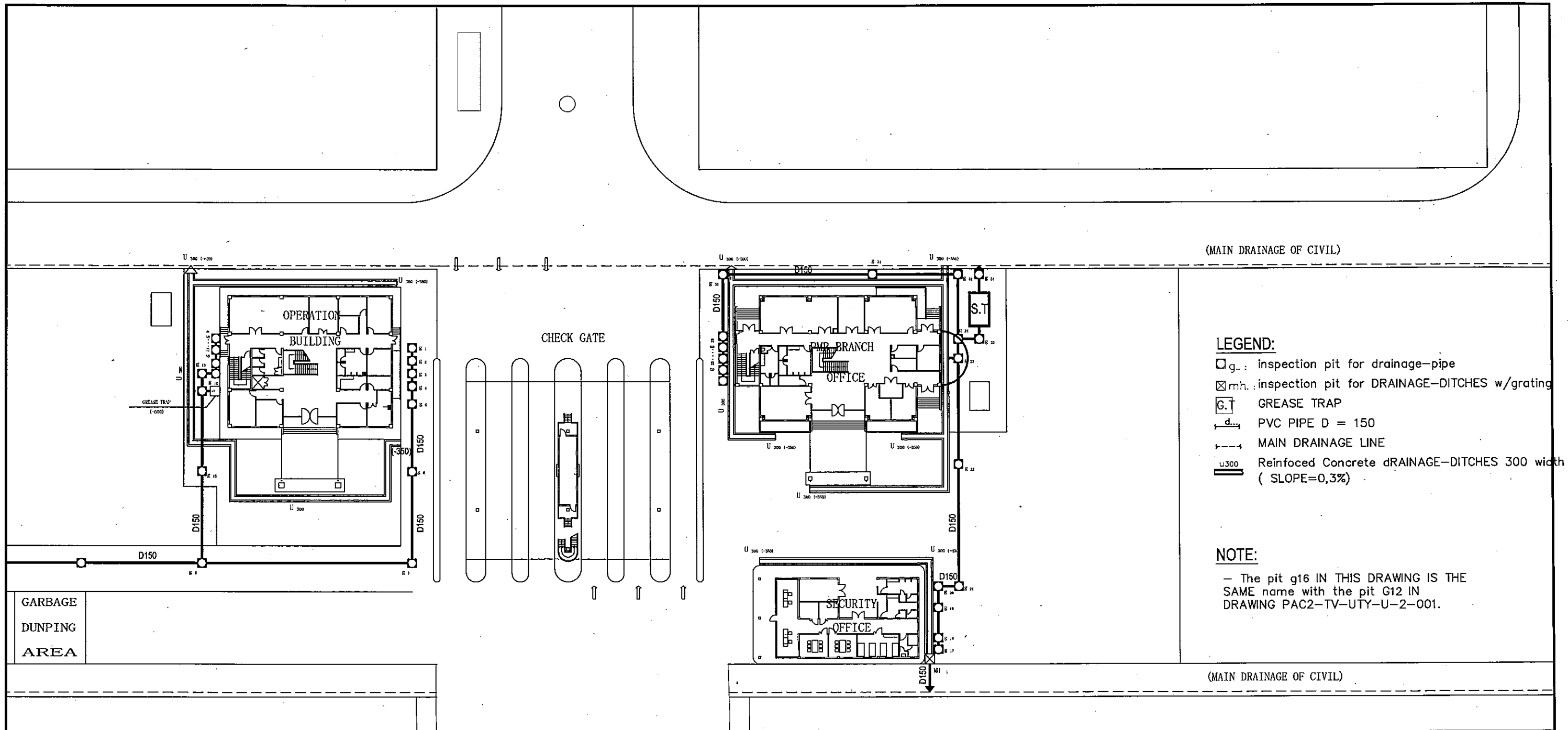
LEGEND:

- g.: inspection pit for drainage-pipe
- mh.: inspection pit for DRAINAGE-DITCHES
- g.t.: grease trap/ GASOLINE TRAP
- d.: PVC PIPE D = 150
- : MAIN DRAINAGE LINE
- U300: Reinforced Concrete dRAINAGE-DITCHES 300 width (SLOPE=0,3%)
- EFJ: expansion flexible joint

NOTE:

- The pit g12 IN THIS DRAWING IS THE SAME name with the pit G16 IN DRAWING PAC2-TV-UTY-U-2-002.

THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85					CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT					DESIGNED BY: SUYAMA Y DRAWN BY: VU SON NAM CHECKED BY: NAGAO N APPROVED BY: NAGAI K ISSUE DATE: 10/JAN/2006 SCALE: 1/600		SECTION: UTILITY WORK SUB-SECTION: DRAINAGE AND WASTE WATER TREATMENT SYSTEM TITLE OF DRAWING: SYSTEM LAYOUT FOR TERMINAL (1)		
JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)					PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA					DWG NO: PAC2-TV-UTY-U-2-001		REV. NO		
REV NO	DATE	DESCRIPTION	BY	APP										



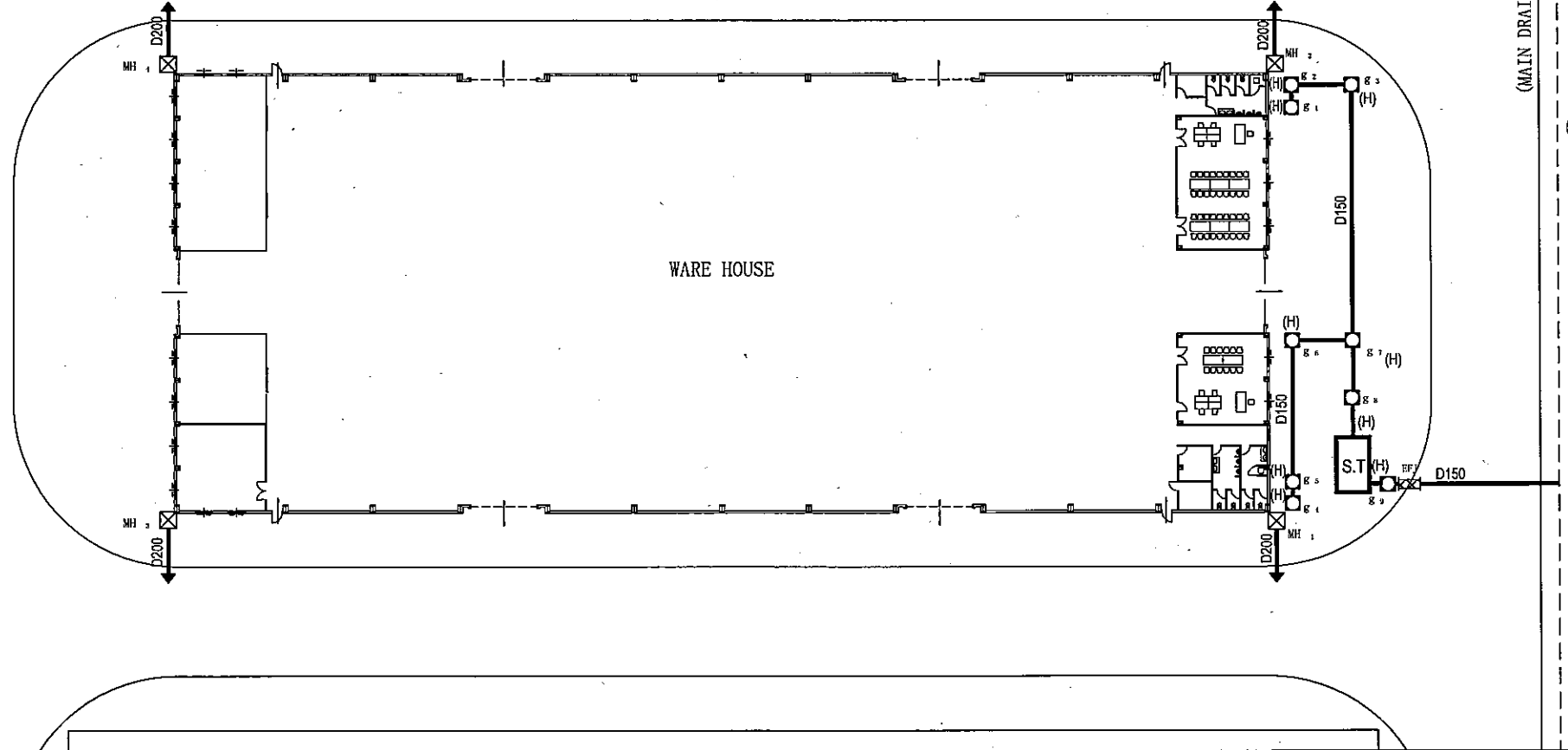
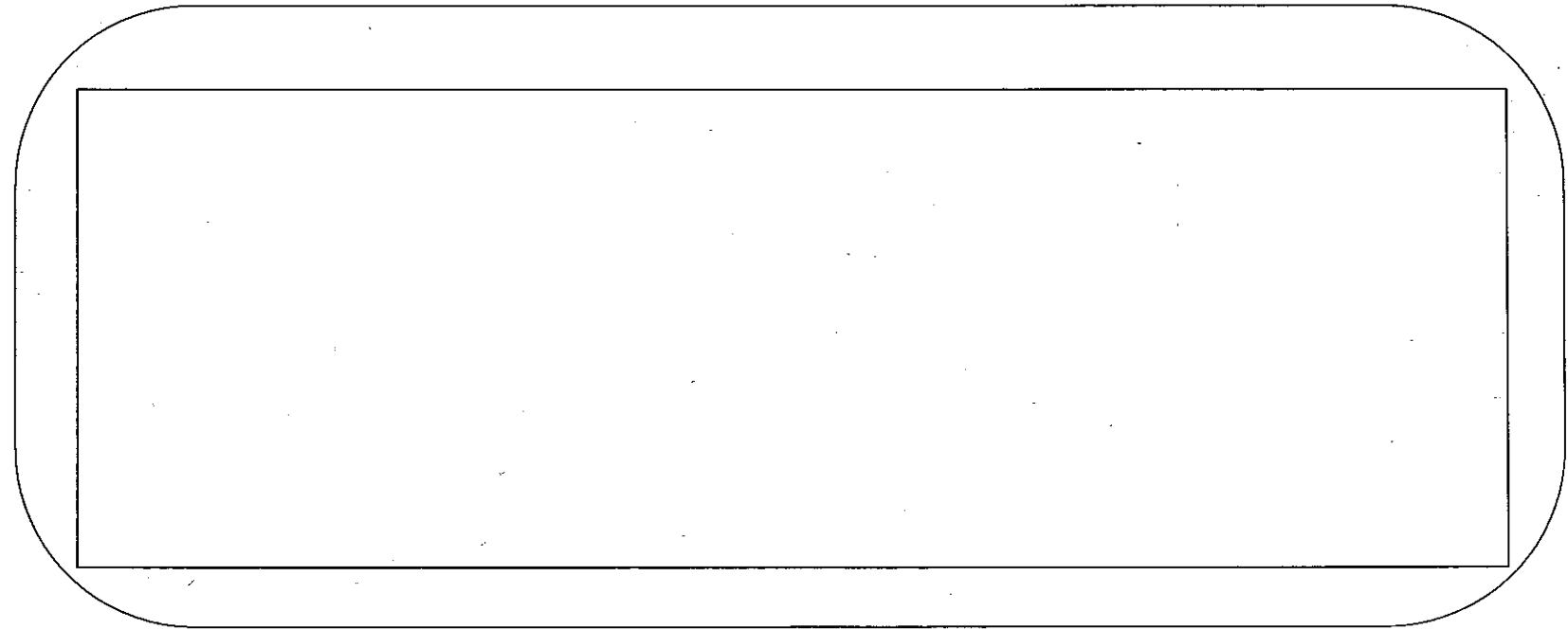
LIST OF COMPONENTS

No	NAME	FIGURE	DEPTH H (M)	No	NAME	FIGURE	DEPTH H (M)	No	NAME	FIGURE	DEPTH H (M)	No	NAME	FIGURE	DEPTH H (M)	No	NAME	FIGURE	DEPTH H (M)	No	NAME	FIGURE	DEPTH H (M)				
1	G1		-600	6	G6		-1150	11	G11		-670	16	G16		-1920	21	G21		-1200	26	G26		-830	31	G31		-1440
2	G2		-650	7	G7		-1300	12	G12		-700	17	G17		-800	22	G22		-1420	27	G27		-860	32	G32		-1650
3	G3		-680	8	G8		-1700	13	G13		-750	18	G18		-830	23	G23		-1650	28	G28		-900	33	G33		-1830
4	G4		-720	9	G9		-600	14	G14		-800	19	G19		-910	24	G24		-1770	29	G29		-940	34	G34		-700
5	G5		-780	10	G10		-630	15	G15		-1150	20	G20		-970	25	G25		-800	30	G30		-1100	35	MH		-750

	THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85	CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA	DESIGNED BY: SUYAMA Y. DRAWN BY: VU SON NAM CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: 10/JAN/2006 SCALE: 1/600	
			SECTION: UTILITY WORK SUB-SECTION: DRAINAGE AND WASTE WATER TREATMENT SYSTEM TITLE OF DRAWING: SYSTEM LAYOUT FOR TERMINAL (2) DWG NO: PAC2-TV-UTY-U-2-002 REV. NO:	
REV NO	DATE	DESCRIPTION	BY	APP

LIST OF COMPONENTS

No	NAME	FIGURE	DEPTH H(M)
1	G ₁		-700
2	G ₂		-800
3	G ₃		-1700
4	G ₄		-750
5	G ₅		-800
6	G ₆		-1150
7	G ₇		-2140
8	G ₈		-2280
9	G ₉		-1150
10	MH ₁		-600
11	MH ₂		-600
12	MH ₃		-600
13	MH ₄		-600



LEGEND:

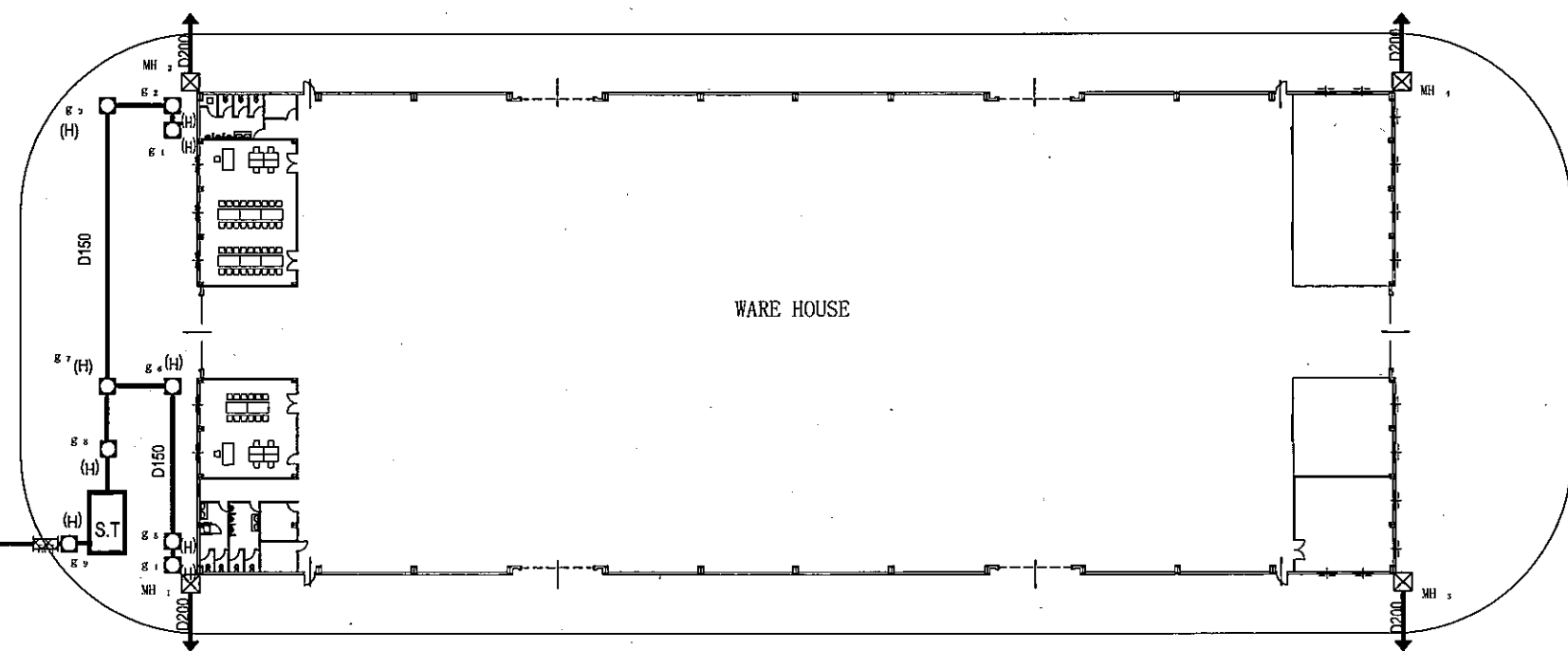
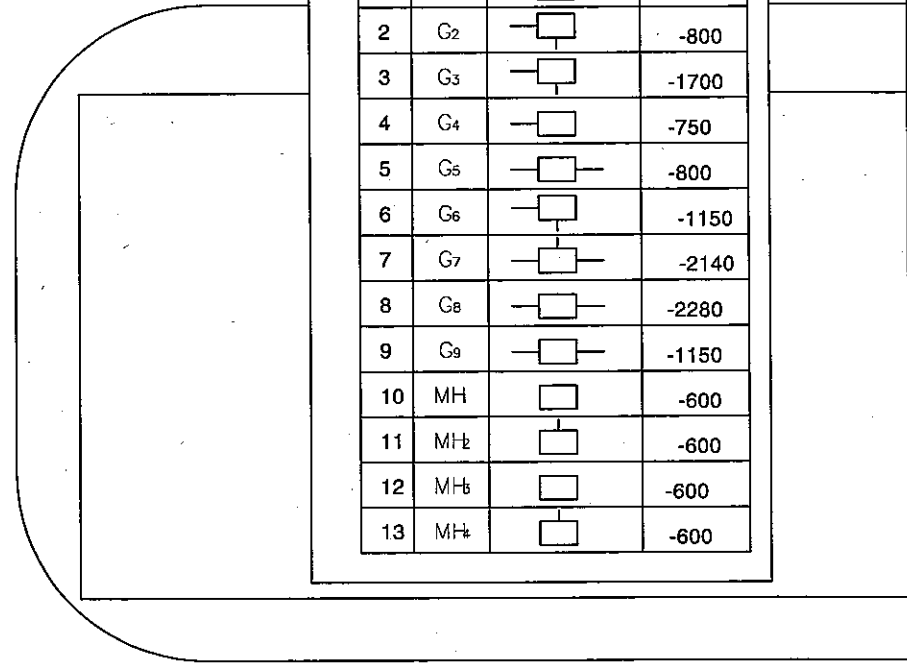
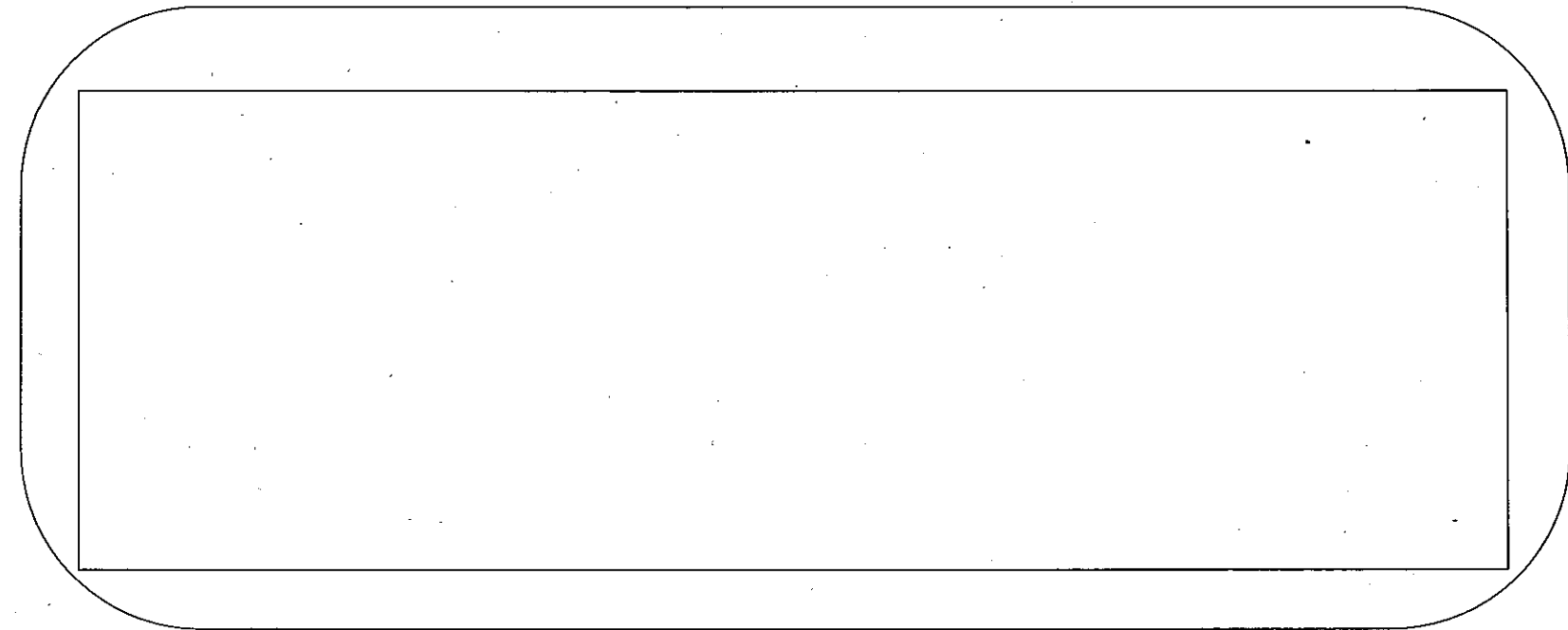
- g.: inspection pit for drainage-pipe
- mh.: inspection pit for DRAINAGE-DITCHES w/grating
- SEPTIC TANK
- PVC PIPE D = 150, 200
- MAIN DRAINAGE LINE
- (H): pit cover: safety load 50KN (kilo-newton)
- expansion flexible joint

		THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: SUYAMA Y. DRAWN BY: VU SON NAM CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: 10/JAN/2006 SCALE: 1/600		SECTION: UTILITY WORK SUB-SECTION: DRAINAGE AND WASTE WATER TREATMENT SYSTEM TITLE OF DRAWING: SYSTEM LAYOUT FOR TERMINAL (3)	
		 JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA				DWG NO: PAC2-TV-UTY-U-2-003 REV. NO	
REV NO	DATE	DESCRIPTION	BY	APP					

LIST OF COMPONENTS

No	NAME	FIGURE	DEPTH H (M)
1	G ₁		-700
2	G ₂		-800
3	G ₃		-1700
4	G ₄		-750
5	G ₅		-800
6	G ₆		-1150
7	G ₇		-2140
8	G ₈		-2280
9	G ₉		-1150
10	MH		-600
11	MH		-600
12	MH		-600
13	MH		-600

(MAIN DRAINAGE OF CIVIL)



- LEGEND:**
- g.: inspection pit for drainage-pipe
 - mh.: inspection pit for DRAINAGE-DITCHES w/gratir
 - S.T SEPTIC TANK
 - PVC PIPE D = 150, 200
 - MAIN DRAINAGE LINE
 - (H) : pit cover: safety load 50KN (kilo-newton)
 - EFJ expansion flexible joint

REV NO	DATE	DESCRIPTION	BY	APP

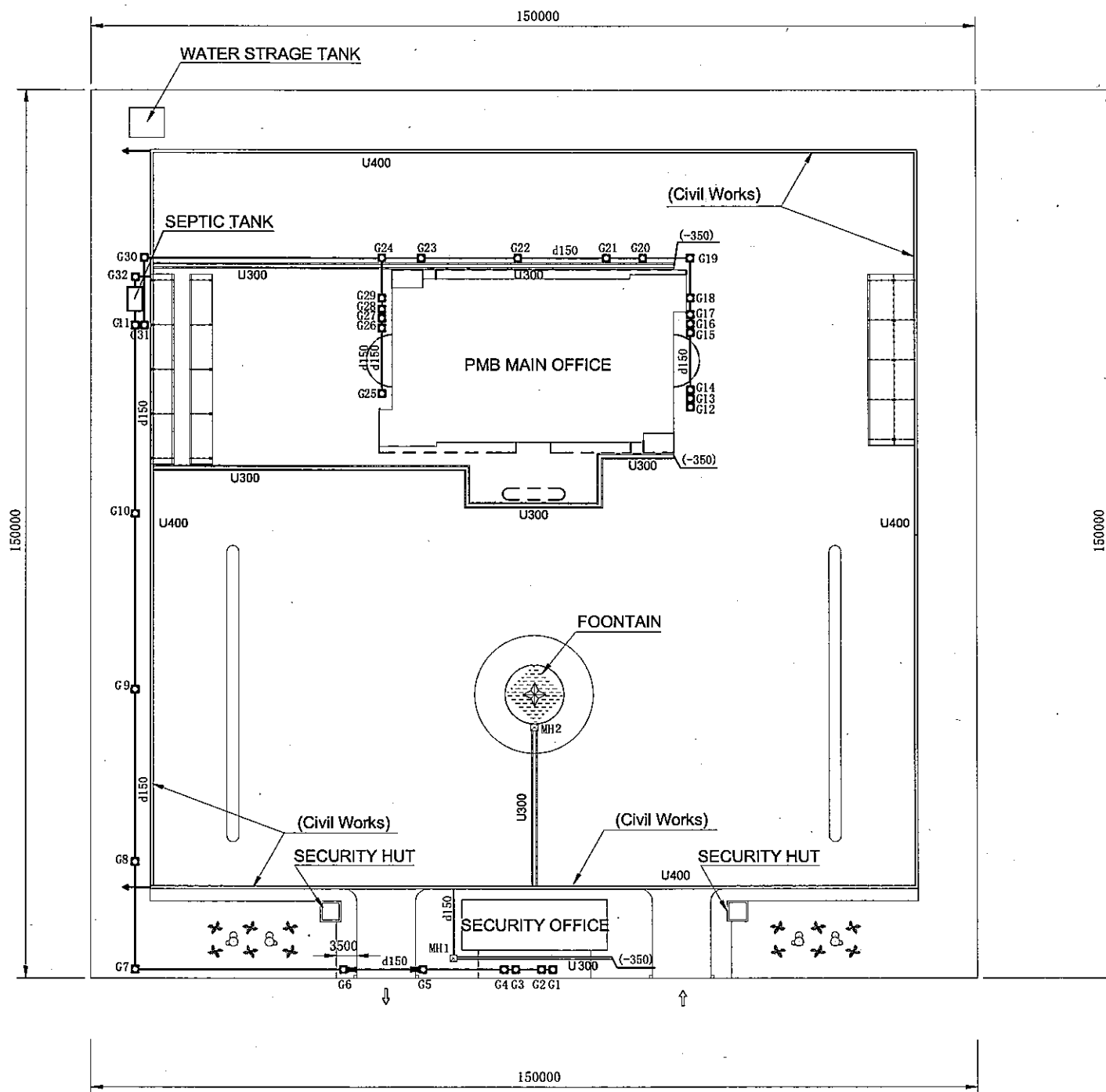
THE SOCIALIST REPUBLIC OF VIETNAM
 MINISTRY OF TRANSPORT
 PROJECT MANAGEMENT UNIT 85

JAPAN INTERNATIONAL COOPERATION AGENCY
 ASSIGNED TO:
 JAPAN PORT CONSULTANT (JPC)
 PACIFIC CONSULTANTS INTERNATIONAL (PCI)
 INTERNATIONAL DEVELOPMENT SYSTEM (IDS)

CAI MEP - THI VAI INTERNATIONAL PORT
 CONSTRUCTION PROJECT

PACKAGE 2
 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR
 THI VAI AREA

DESIGNED BY: SUYAMA Y.	SECTION: UTILITY WORK
DRAWN BY: VU SON NAM	SUB-SECTION: DRAINAGE AND WASTE WATER TREATMENT SYSTEM
CHECKED BY: NAGAO N.	TITLE OF DRAWING: SYSTEM LAYOUT FOR TERMINAL (4)
APPROVED BY: NAGAI K.	DWG NO: PAC2-TV-UTY-U-2-004
ISSUE DATE: 10/JAN/2006	REV. NO
SCALE: 1/600	



LIST OF MANHOLES

No	NAME	FIGURE	DEPTH H (mm)
1	G1		-600
2	G2		-640
3	G3		-700
4	G4		-740
5	G5		-930
6	G6		-1100
7	G7		-1540
8	G8		-1790
9	G9		-2170
10	G10		-2550
11	G11		-2970
12	G12		-600
13	G13		-630
14	G14		-660
15	G15		-820
16	G16		-850
17	G17		-880
18	G18		-930
19	G19		-1050
20	G20		-1180
21	G21		-1270
22	G22		-1470
23	G23		-1670
24	G24		-1800
25	G25		-600
26	G26		-770
27	G27		-800
28	G28		-830
29	G29		-900
30	G30		-2300
31	G31		-2470
32	G32		-600
33	MH1		-600
34	MH2		-500

LEGEND:

- g.: inspection pit for drainage-pipe
- mh.: inspection pit for DRAINAGE-DITCHES w/grating
- PVC PIPE D = 150
- MAIN DRAINAGE
- Reinforced Concrete dRAINAGE-DITCHES 300 width (SLOPE = 0,3%)
- expansion flexible joint

THE SOCIALIST REPUBLIC OF VIETNAM
 MINISTRY OF TRANSPORT
 PROJECT MANAGEMENT UNIT #5

JICA
 JAPAN INTERNATIONAL COOPERATION AGENCY
 ASSIGNED TO:
 JAPAN PORT CONSULTANT (JPC)
 PACIFIC CONSULTANTS INTERNATIONAL (PCI)
 INTERNATIONAL DEVELOPMENT SYSTEM (IDS)

CAI MEP - THI VAI INTERNATIONAL PORT
 CONSTRUCTION PROJECT

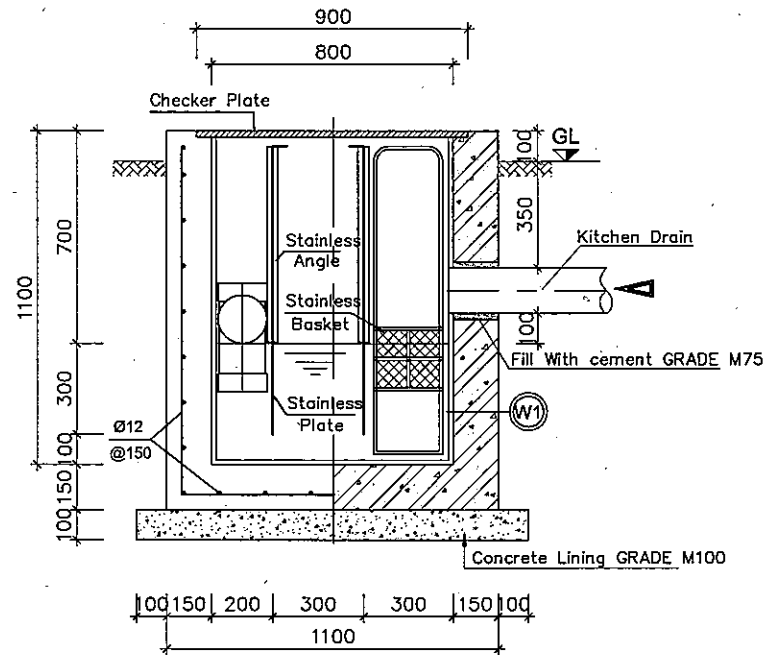
PACKAGE 1
 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR
 CAI MEP AREA

DESIGNED BY: SUYAMA Y.
 DRAWN BY: VU SON NAM
 CHECKED BY: NAGAO N.
 APPROVED BY: NAGAI K.
 ISSUE DATE: 10/JAN/2006
 SCALE: 1/500

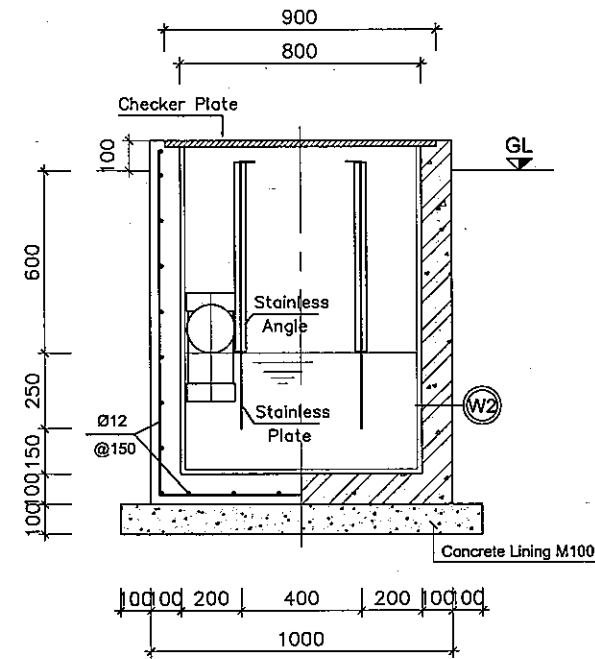
SECTION: UTILITY WORK
 SUB-SECTION: DRAINAGE AND WASTE WATER TREATMENT SYSTEM
 TITLE OF DRAWING: SYSTEM LAYOUT FOR PMB MAIN OFFICE
 DWG NO: PAC2-TV-UTY-U-2-005
 REV. NO

REV NO	DATE	DESCRIPTION	BY	APP

Sectional Elevation



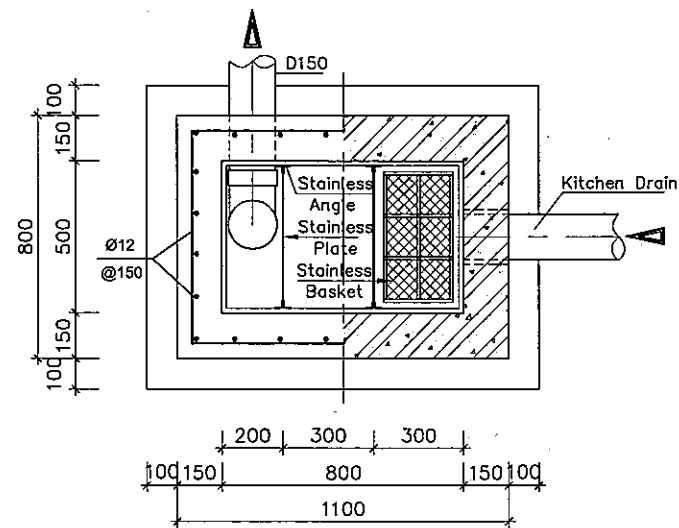
Sectional Elevation



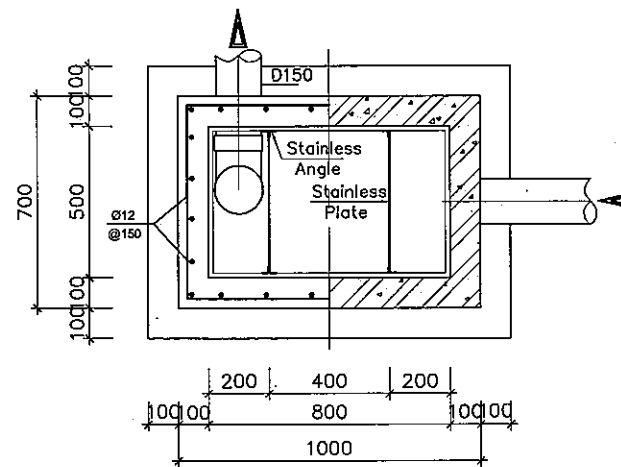
W1
 Cement mortar, 15mm thk and surface cementation.
 Reinforce concrete, GRADE M300, 150mm thk.
 Covering : 2 bitumen layer.
 Backfilling soil.

W2
 Cement mortar, 15mm thk and surface cementation.
 Reinforce concrete, GRADE M300, 100mm thk.
 Covering : 2 bitumen layer.
 Backfilling soil.

Grease Trap



Gasoline Trap

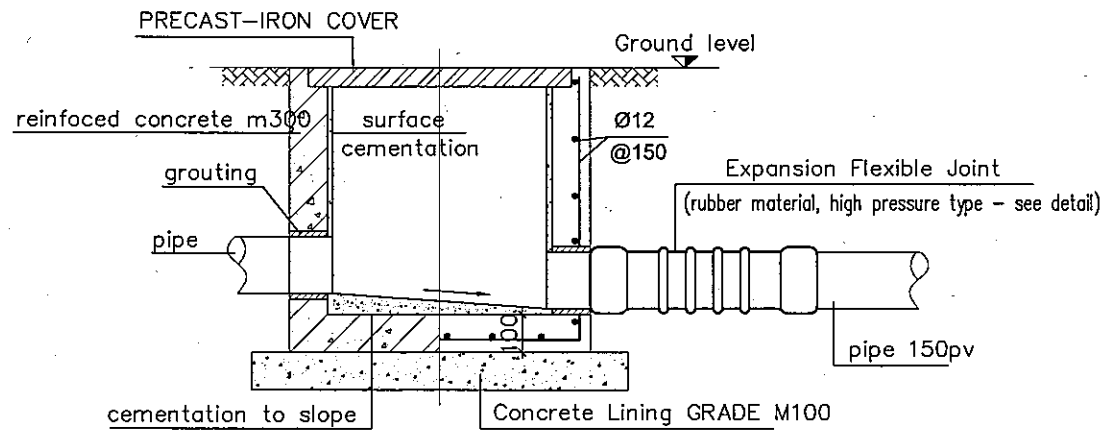


NOTES:

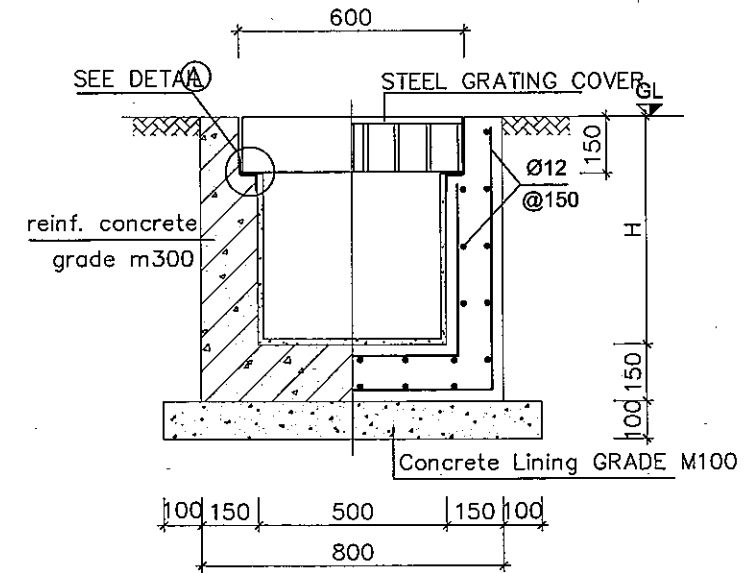
1. Inside be grouted by Cement mortar GRADE 75, 15mm Thk.
2. Material: Concrete GRADE M300, Steel AI, All, cement-mortar GRADE m75, waterproofing by surface cementation.

				THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT		DESIGNED BY: SUYAMA Y. DRAWN BY: VU SON NAM CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: 10/JAN/2006 SCALE: 1/25		SECTION: UTILITY WORK SUB-SECTION: DRAINAGE AND WASTE WATER TREATMENT SYSTEM TITLE OF DRAWING: GREASE TRAP - GASOLINE TRAP DWG NO: PAC2-TV-UTY-U-2-006 REV. NO	
				JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA					
REV. NO	DATE	DESCRIPTION	BY	APP							

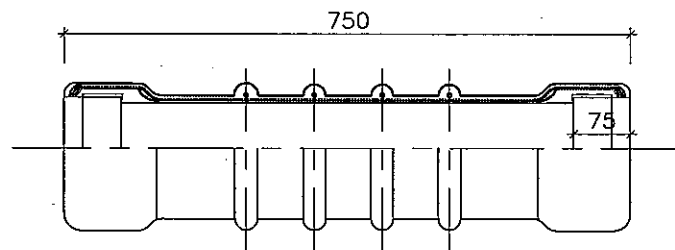
connection to the pit for drainage-pipe



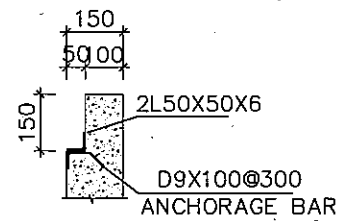
drainage trench (500mm width)



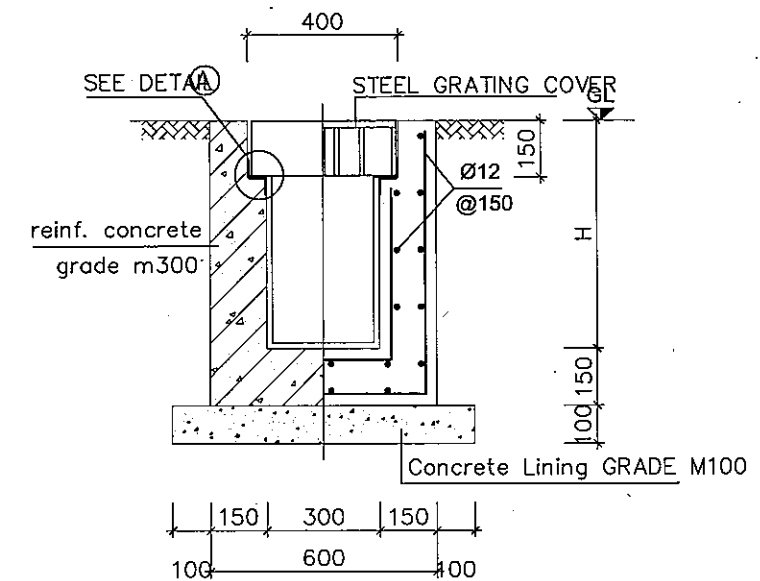
expansion flexible joint detail



DETAIL (A)



drainage trench (300mm width)

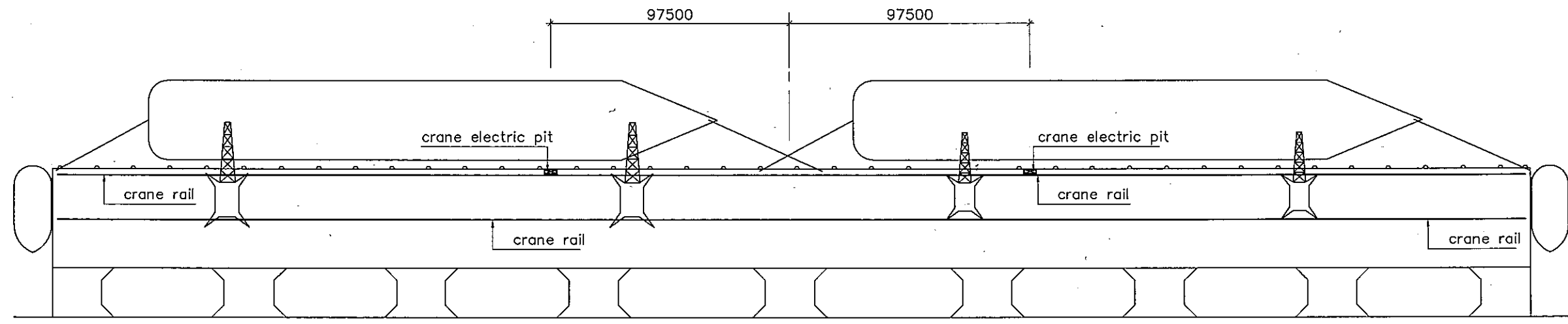


NOTES:

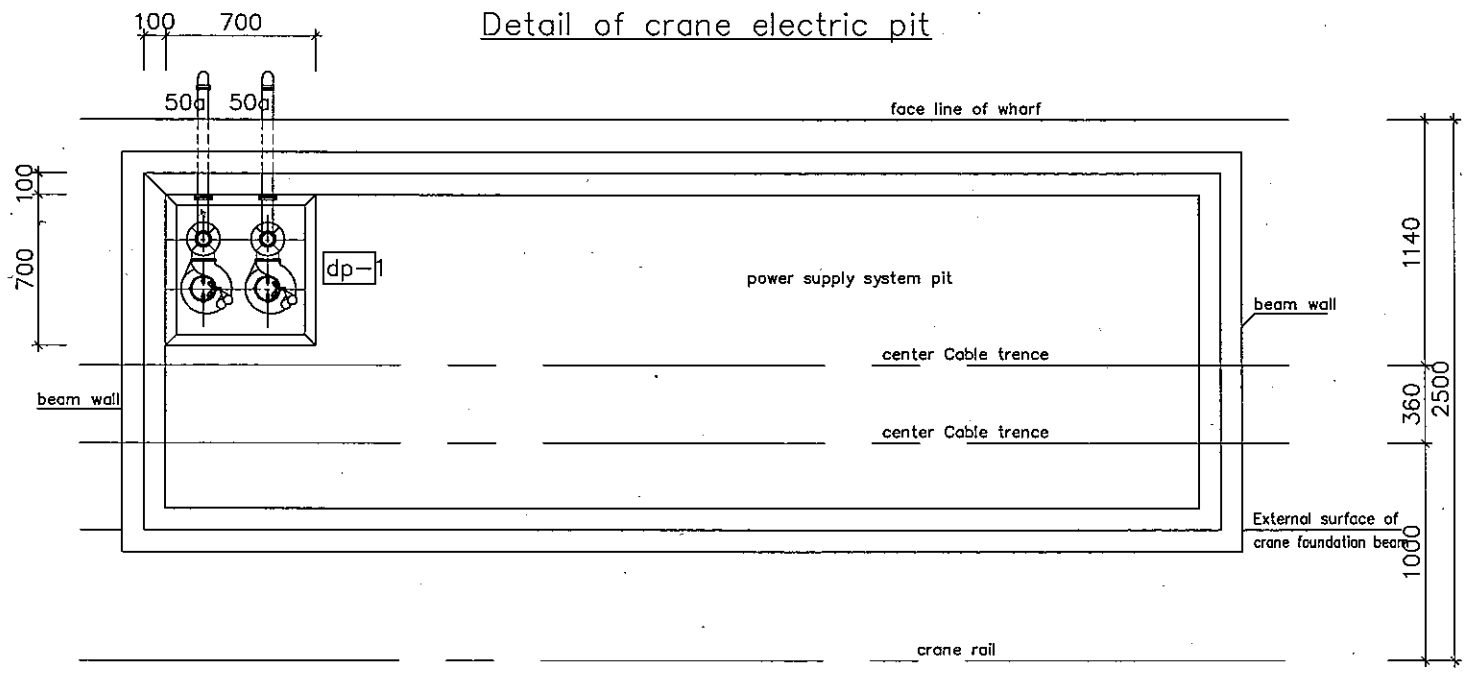
- Material: Expansion flexible joint used rubber material, high pressure type. Concrete M300, Steel A1, All, cement-mortar m75, waterproofing by surface cementation.
- Inspection pit for drainage pipe used PRECAST-IRON COVER, section: 800x800 mm
- Drainage trench cover used steel grating, section: 1000x300(500) mm

				THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT		DESIGNED BY: SUYAMA Y. DRAWN BY: VU SON NAM CHECKED BY: NAGAI K. APPROVED BY: NAGAI K. ISSUE DATE: 10/JAN/2006 SCALE: 1/20, 1/10		SECTION: UTILITY WORK SUB-SECTION: DRAINAGE AND WASTE WATER TREATMENT SYSTEM TITLE OF DRAWING: DETAILS OF TRENCH AND PIT COVER - COUNTERMEASURE OF GROUND SUBSIDENCE DWG NO: PAC2-TV-UTY-U-2-007 REV. NO	
				JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA					
REV NO	DATE	DESCRIPTION	BY	APP							

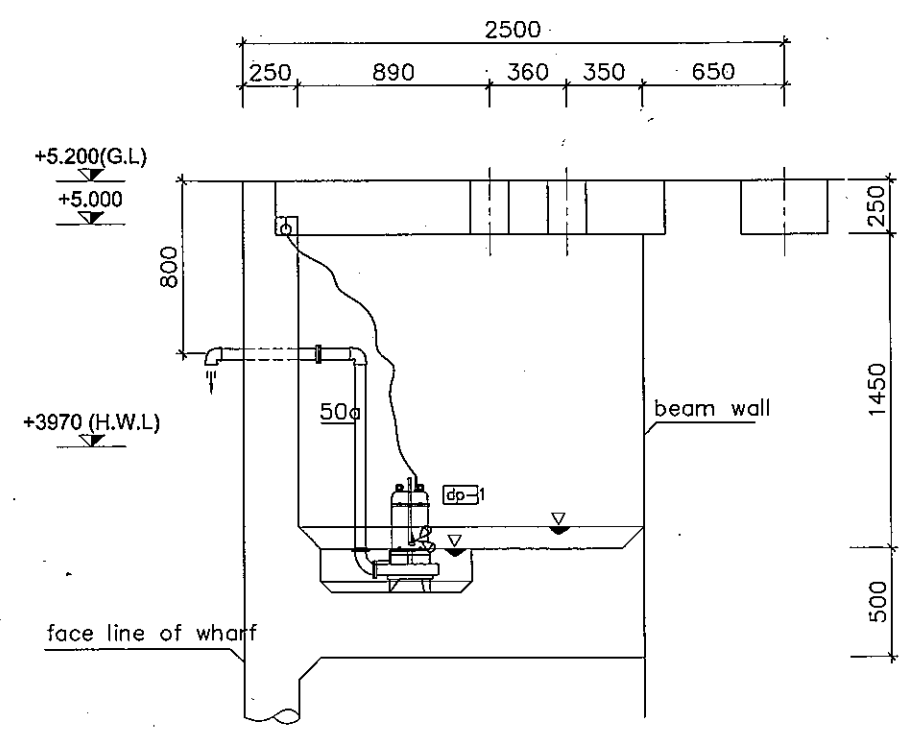
crane electric pit



Detail of crane electric pit



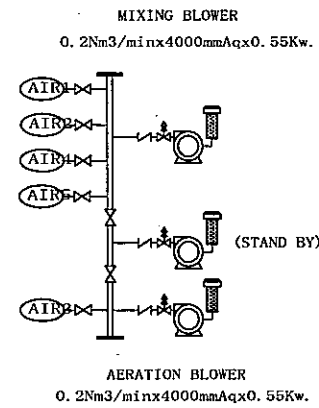
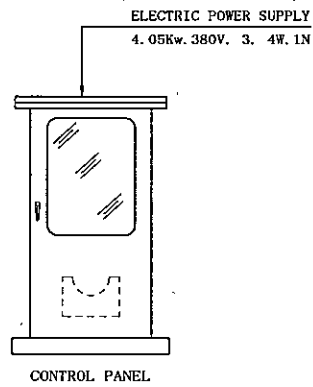
cross section



LEGEND:

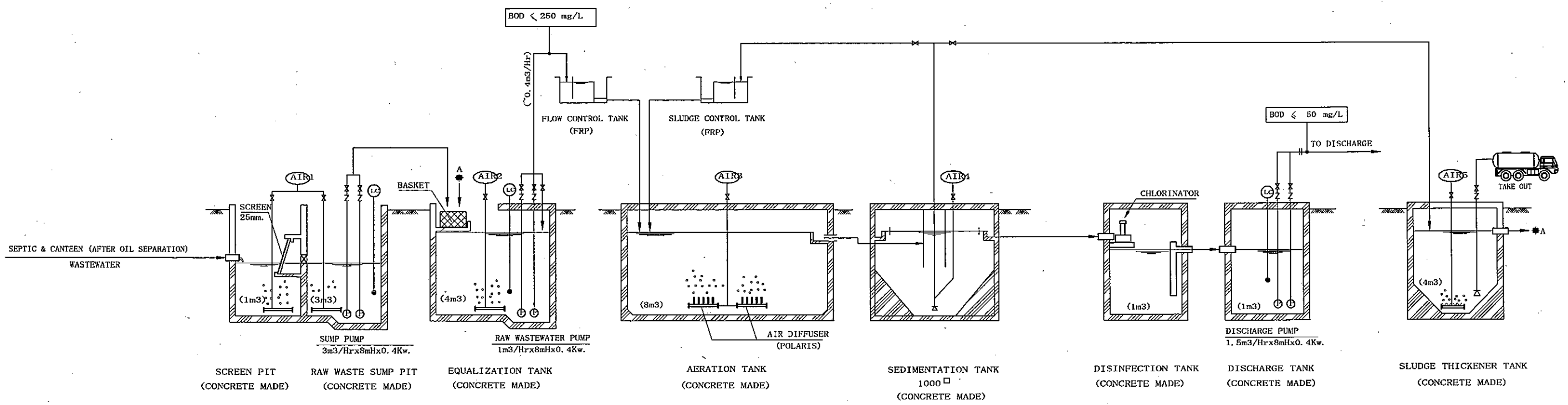
dp-1 : SUBMERGE SEWAGE PUMP 100L/min x 7mAq x 1.5kw x2
 (automatic alternate and parallel operation w/float switch, electric control panel)

					THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT		DESIGNED BY: SUYAMA DRAWN BY: VU SON NAM CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: 10/JAN/2006 SCALE: 1/2000, 1/35		SECTION: UTILITY WORK SUB-SECTION: DRAINAGE AND WASTE WATER TREATMENT SYSTEM TITLE OF DRAWING: DETAILS OF CRANE ELECTRIC PIT DWG NO: PAC2-TV-UTY-U-2-008 REV. NO	
					JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA					
REV NO	DATE	DESCRIPTION	BY	APP								



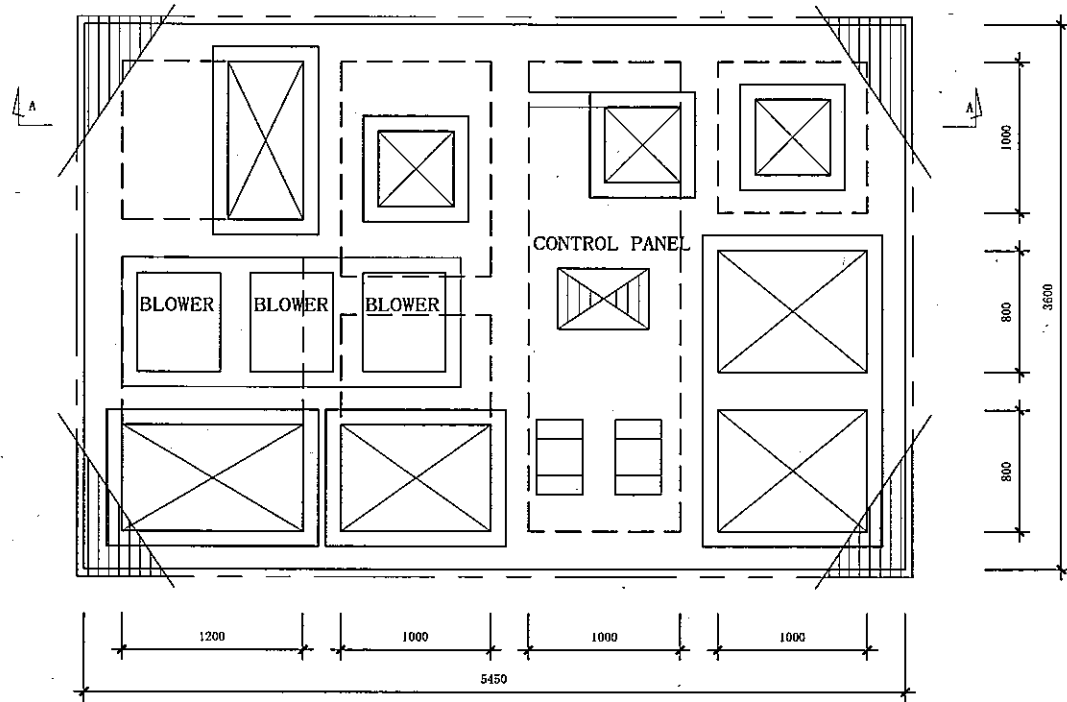
PWB BRANCH OFFICE + SECURITY OFFICE
(4.2m³/Day)

WAREHOUSE + (FUTURE)
(8m³/Day)

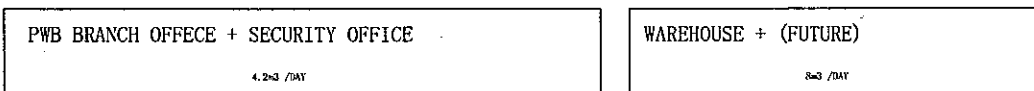
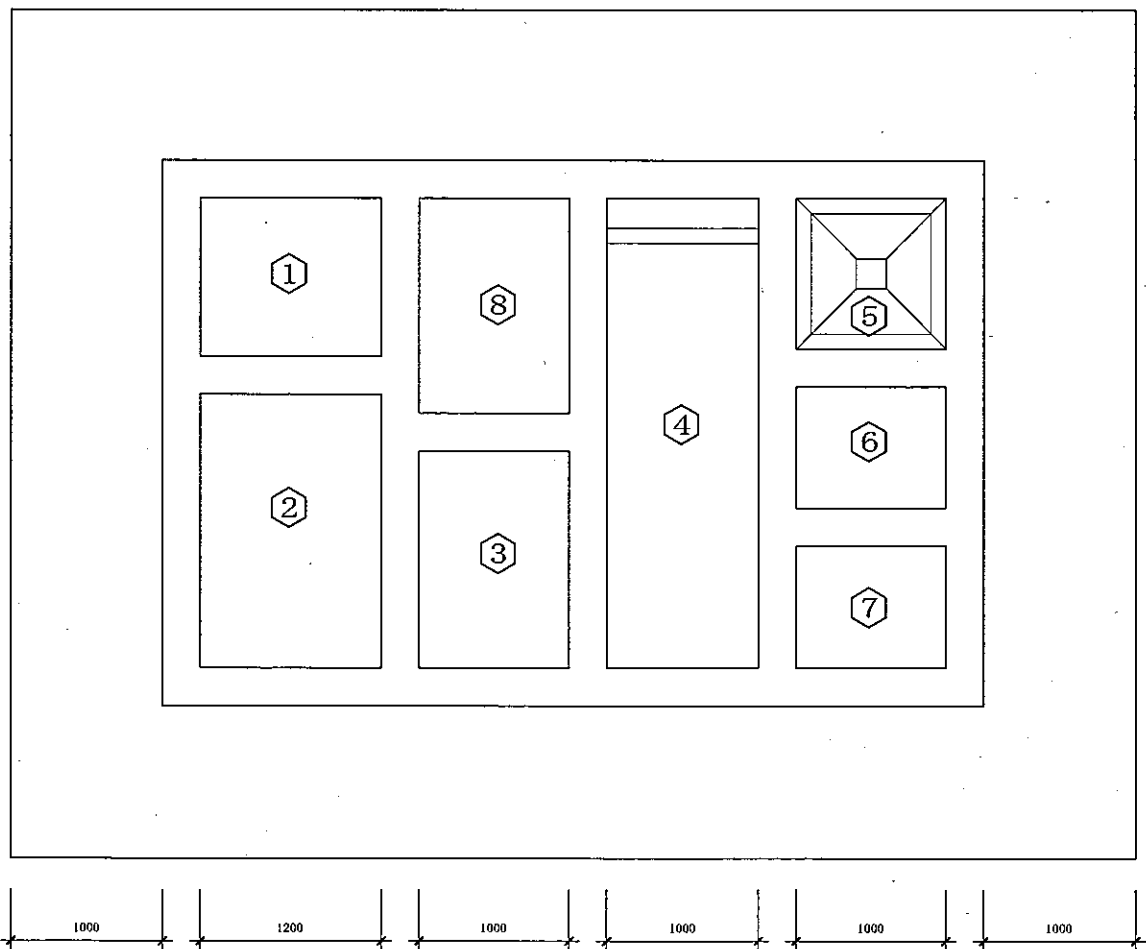


<p>THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>					<p>CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT</p>					<p>DESIGNED BY: SUYAMA DRAWN BY: VU SON NAM CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: 10/JAN/2006 SCALE: Not to scale</p>					<p>SECTION: UTILITY WORK SUB-SECTION: DRAINAGE AND WASTER WATER TREATMENT SYSTEM TITLE OF DRAWING: SEPTIC TANK SYSTEM (1) DWG NO: PAC2-TV-UTY-U-2-009 REV. NO</p>				
<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</p>					<p>PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA</p>														
REV NO	DATE	DESCRIPTION	BY	APP															

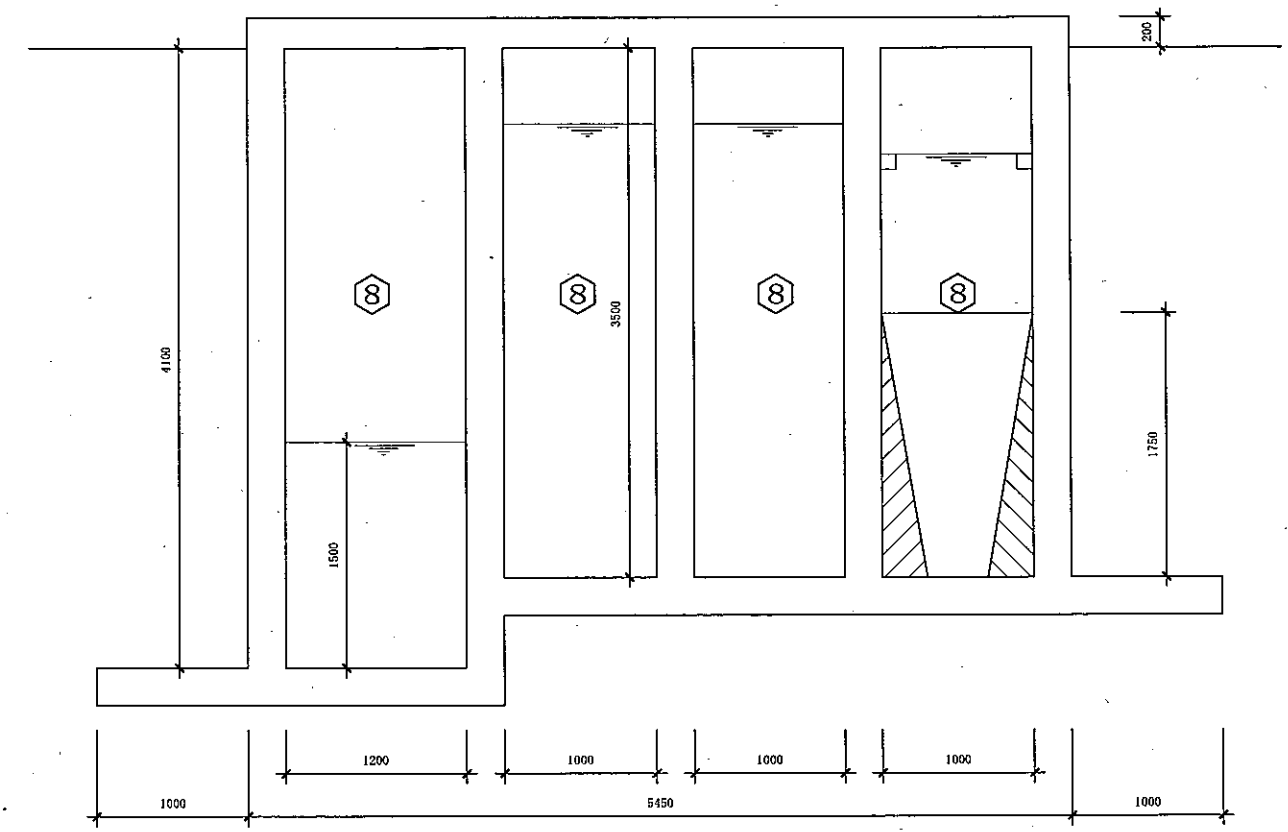
LAYOUT (TOP)



LAYOUT (BOTTOM)



SECTION A-A



NO.	DESCRIPTION	
①	SCREEN PIT	(1m. ³)
②	RAW WASTE SUMP PIT	(3m. ³)
③	EQUALIZATION TANK	(4m. ³)
④	AERATION TANK	(8m. ³)
⑤	SEDIMENTATION TANK	
⑥	DISINFECTION TANK	(1m. ³)
⑦	DISCHARGE TANK	(1m. ³)
⑧	SLUDGE THICKENER TANK	(4m. ³)

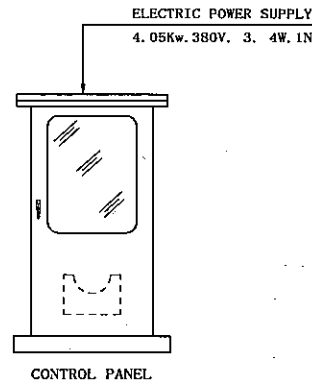
		THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT		DESIGNED BY: SUYAMA Y DRAWN BY: VU SON NAM CHECKED BY: NAGAO N APPROVED BY: NAGAI K ISSUE DATE: 10/JAN/2006 SCALE: 1/50		SECTION: UTILITY WORK SUB-SECTION: DRAINAGE AND WASTER WATER TREATMENT SYSTEM TITLE OF DRAWING: LAYOUT AND SECTION FOR SEPTIC TANK (1)	
		JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA				DWG NO: PAC2-TV-UTY-U-2-010 REV. NO	
REV NO	DATE	DESCRIPTION	BY	APP					

PMB MAIN OFFICE + SECURITY OFFICE

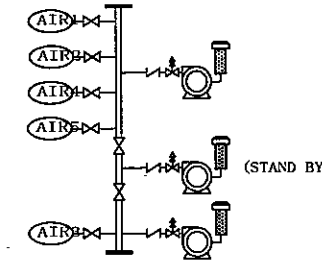
(14m³/Day)

CHECK G + OPERATIONAL BL + AMENITY BL + MAINTANANCE SP

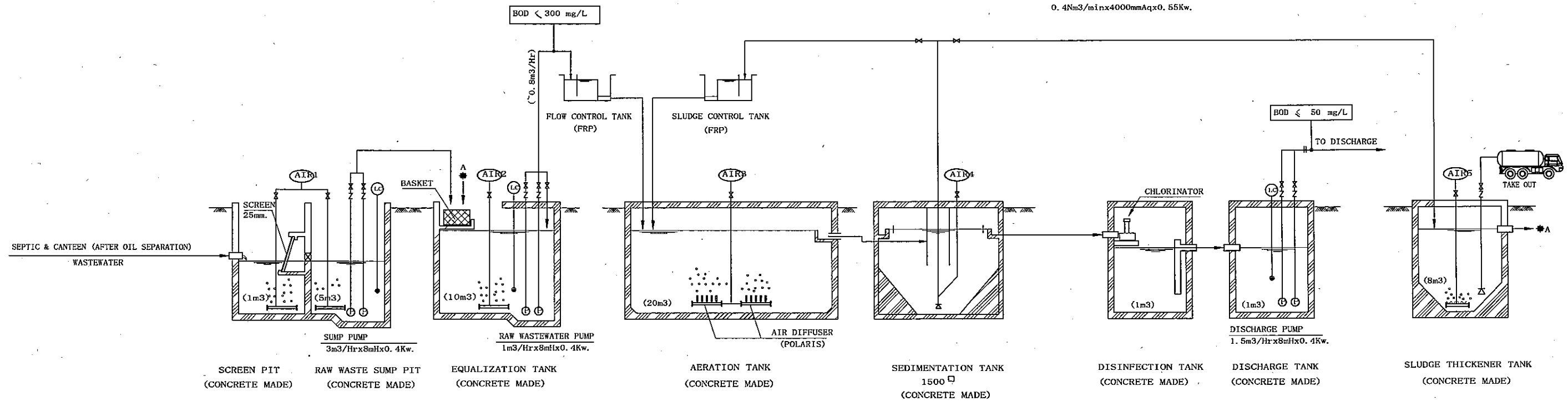
(16.9m³/Day)



MIXING BLOWER
0.4Nm³/minx4000mmAqx0.55Kw.

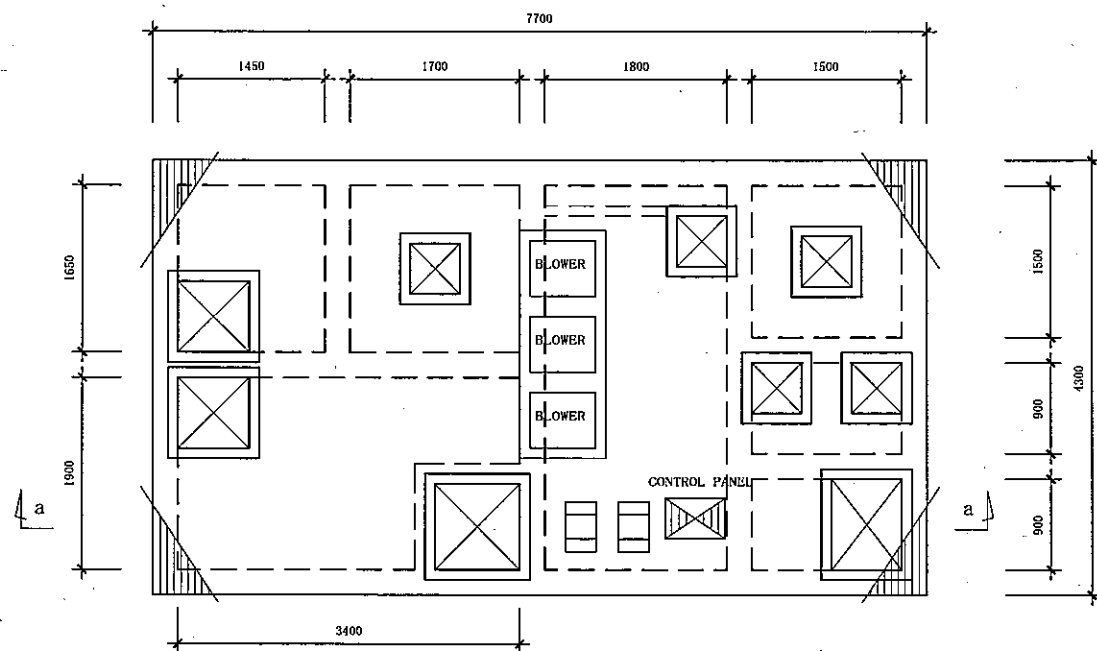


AERATION BLOWER
0.4Nm³/minx4000mmAqx0.55Kw.

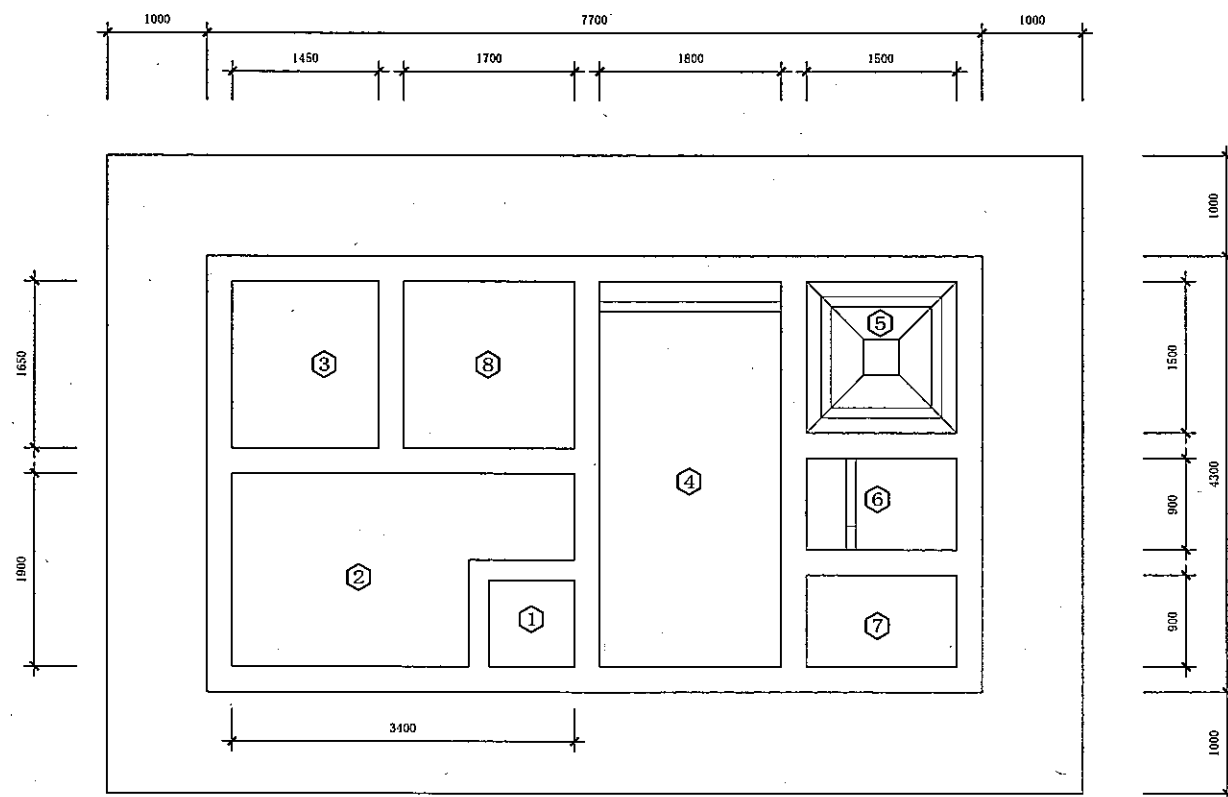


<p>THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>					<p>CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT</p>					<p>DESIGNED BY: SUYAMA Y. DRAWN BY: VU SON NAM CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: 10/JAN/2006 SCALE: Not to scale</p>					<p>SECTION: UTILITY WORK SUB-SECTION: DRAINAGE AND WASTER WATER TREATMENT SYSTEM TITLE OF DRAWING: SEPTIC TANK SYSTEM (2) DWG NO: PAC2-TV-UTY-U-2-011 REV. NO</p>				
<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</p>					<p>PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA</p>														
REV NO	DATE	DESCRIPTION	BY	APP															

LAYOUT (TOP)



LAYOUT (BOTTOM)



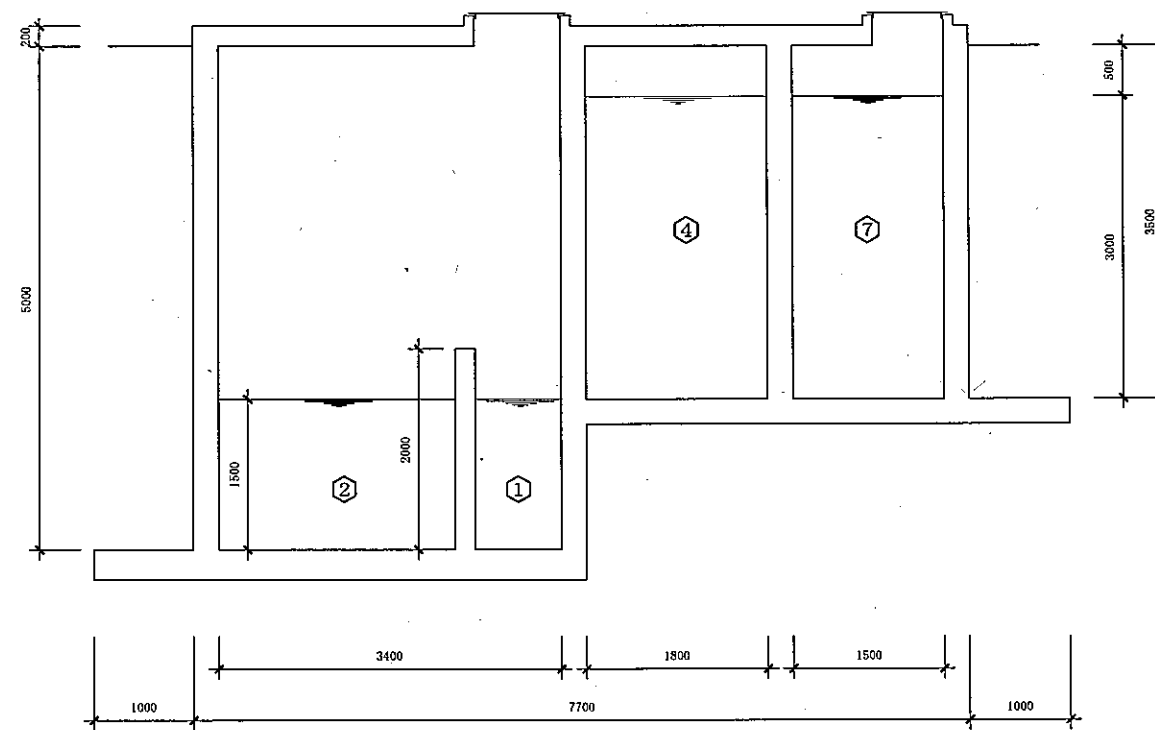
PMB MAIN OFFICE+SECURITY OFFICE

(14m³ /DAY)

CHECK G + OPERATIONAL BL + AMENITY BL + MAINTANANCE SP

(16.9m³/Day)

SECTION A-A



NO.	DESCRIPTION	
①	SCREEN PIT	(1m. ³)
②	RAW WASTE SUMP PIT	(5m. ³)
③	EQUALIZATION TANK	(10m. ³)
④	AERATION TANK	(20m. ³)
⑤	SEDIMENTATION TANK	
⑥	DISINFECTION TANK	(1m. ³)
⑦	DISCHARGE TANK	(1m. ³)
⑧	SLUDGE THICKENER TANK	(8m. ³)

THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85					CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT		DESIGNED BY: SUYAMA Y. DRAWN BY: VU SON NAM CHECKED BY: NAGAI K. APPROVED BY: NAGAI K. ISSUE DATE: 10/JAN/2006 SCALE: 1/75		SECTION: UTILITY WORK SUB-SECTION: DRAINAGE AND WASTER WATER TREATMENT SYSTEM TITLE OF DRAWING: LAYOUT AND SECTION FOR SEPTIC TANK (2)	
JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)					PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA		DWG NO: PAC2-TV-UTY-U-2-012		REV. NO	
REV NO	DATE	DESCRIPTION	BY	APP						