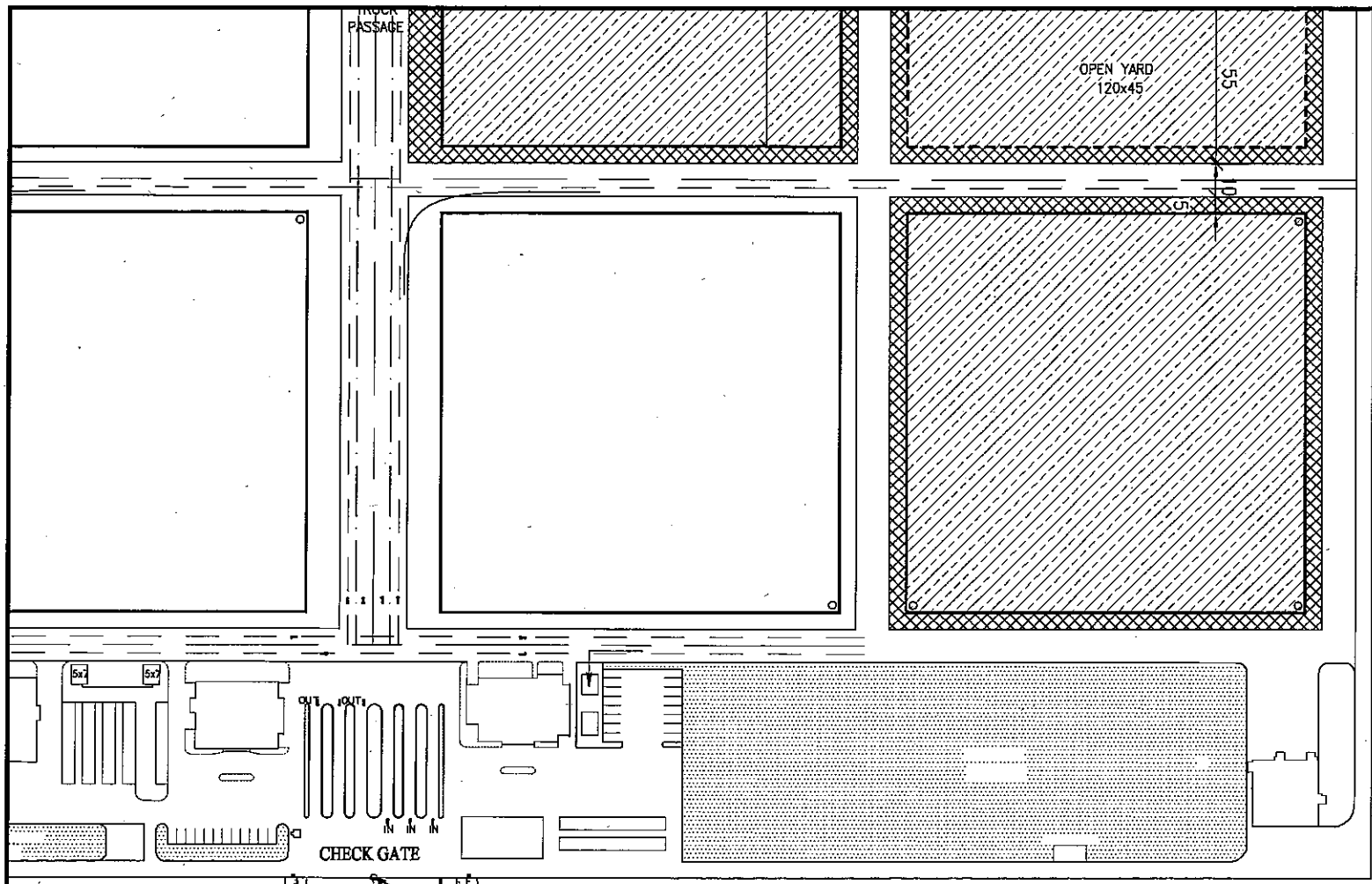


CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT
PACKAGE 2 : CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA
VOLUME IV : TENDER DRAWINGS - CIVIL WORKS -
LIST OF THE DRAWINGS

[14] ACCESS ROAD

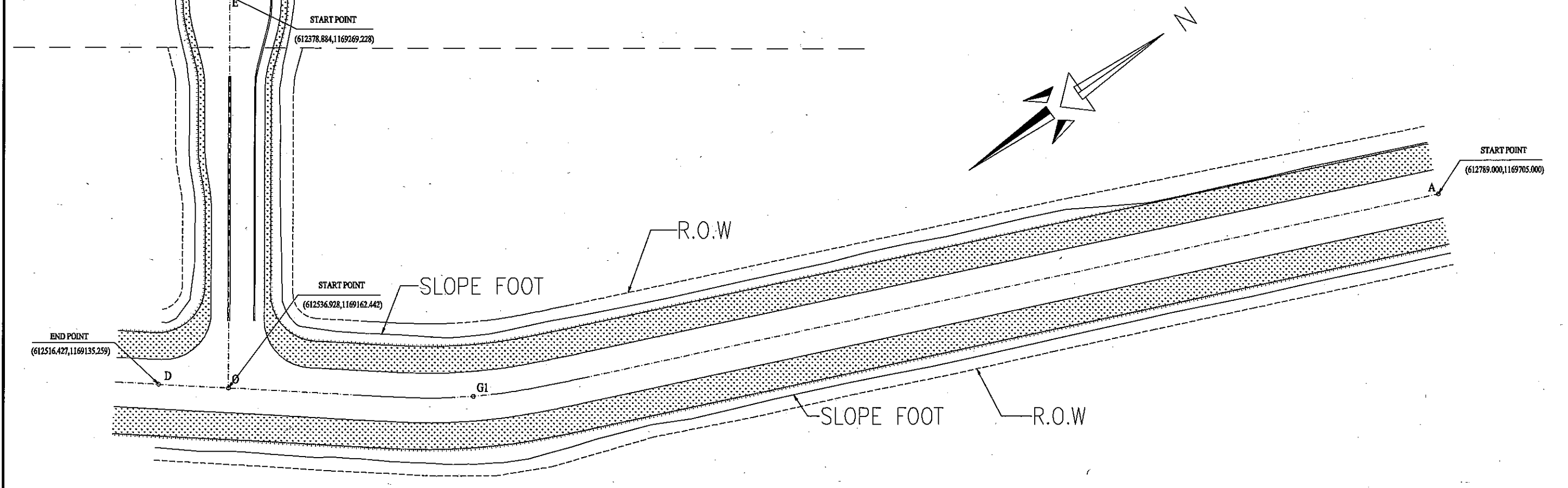
DWG NO.	TITLE OF DRAWING	DWG NO.	TITLE OF DRAWING	DWG NO.	TITLE OF DRAWING
ROAD CONSTRUCTION		MISCELLANEOUS			
ROAD		TRAFFIC SAFETY SYSTEM			
PAC2- TV- ACR- 001	General layout of Access Road to Thi Vai Terminal	PAC2- TV- ACR- 027	General layout of sign & marking		
PAC2- TV- ACR- 002	Typical cross section(1)	PAC2- TV- ACR- 028	Detail of Road Signs & post		
PAC2- TV- ACR- 003	Typical cross section(2)	PAC2- TV- ACR- 029	Detail of road marking		
PAC2- TV- ACR- 004	Detail of Curb, Median and Pavement				
PAC2- TV- ACR- 005	Co-ordinates of center line stakes				
PAC2- TV- ACR- 006	Plan and Profile - Access road to Thi Vai Terminal	CONSTRUCTION METHOD			
PAC2- TV- ACR- 007	Plan and Profile - Access ramp to Thi Vai Terminal	PAC2- TV- ACR- 030	Construction sequence of Soil Improvement		
PAC2- TV- ACR- 008	Plan and Profile of T-Junction				
PAC2- TV- ACR- 009	Detailed cross section(1)				
PAC2- TV- ACR- 010	Detailed cross section(2)				
PAC2- TV- ACR- 011	Detailed cross section(3)				
PAC2- TV- ACR- 012	Detailed cross section(4)				
PAC2- TV- ACR- 013	Detailed cross section(5)				
PAC2- TV- ACR- 014	Detailed cross section(6)				
PAC2- TV- ACR- 015	Detailed cross section(7)				
PAC2- TV- ACR- 016	Detailed cross section(8)				
PAC2- TV- ACR- 017	Detailed cross section(9)				
PAC2- TV- ACR- 018	Detailed cross section(10)				
SOIL IMPROVEMENT					
PAC2- TV- ACR- 019	General plan of Soil Improvement works				
PAC2- TV- ACR- 020	Geotechnical profile & cross section for access road				
PAC2- TV- ACR- 021	Geotechnical profile & cross section for access ramp				
PAC2- TV- ACR- 022	Plan of Monitoring				
DRAINAGE SYSTEM					
LONGITUDINAL CULVERT FOR RUN-OFF DRAINAGE					
PAC2- TV- ACR- 023	General plan of longitudinal culvert				
PAC2- TV- ACR- 024	Detail of Inlet, Outlet(1)				
PAC2- TV- ACR- 025	Detail of Inlet, Outlet(2)				
LIGHT					
PAC2- TV- ACR- 026	General plan of light and electric post.				



COORDINATES OF OF CENTER LINE STAKES

POINT NAME	COORDINATES (SYSTEM HN72)		NOTES
	X (m)	Y (m)	
A	612789.000	1169705.000	START POINT OF ACCESS ROAD TO THIVAI TERMINAL
G1	612808.816	1169259.235	CURVE 1
D	612516.427	1169135.259	END POINT OF ACCESS ROAD TO THIVAI TERMINAL
O	612536.928	1169162.442	START POINT OF RAMP TO THIVAI TERMINAL
E	612378.884	1169269.228	END POINT OF RAMP TO THIVAI TERMINAL

- NOTES:
- COORDINATES ARE SYSTEM HN72
 - ELEVATION IS CDL
 - ROAD CENTERLINE (TIM TUYEÁN)
 - R.O.W OF ACCESS ROAD TO CAIMEP TERMINAL

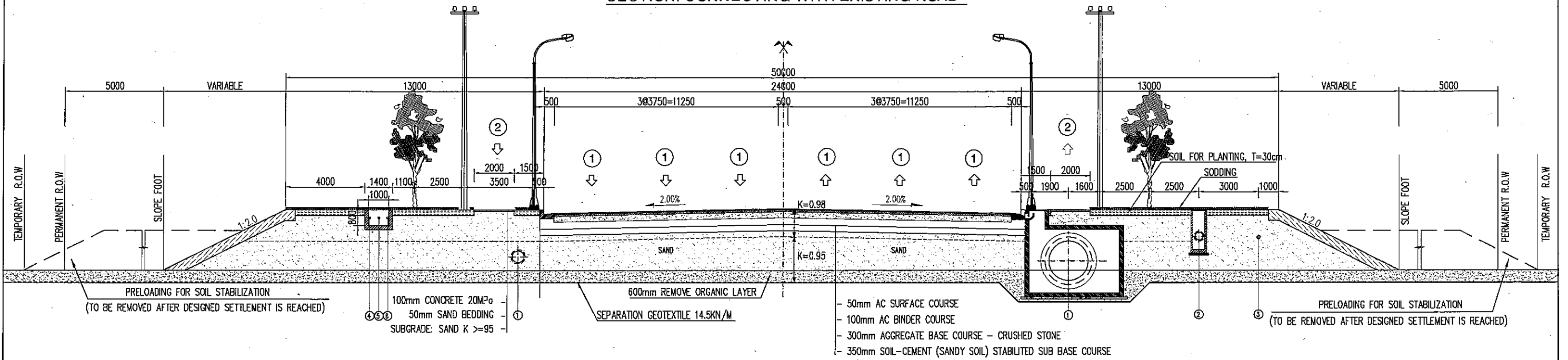


<p>THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>				<p>CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT</p>		<p>DESIGNED BY: J. R. MONTANO MICHEL DRAWN BY: TRUONG HOA BINH CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: OCT 10, 2005 SCALE: 1:2000</p>		<p>SECTION: ACCESS ROAD TO THIVAI TERMINAL SUB-SECTION: ROAD CONSTRUCTION-ROAD TITLE OF DRAWING: GENERAL LAYOUT OF ACCESS ROAD TO THI VAI TERMINAL</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 THIVAI AREA</p>		<p>DWG NO: PAC2-TV-ACR-001</p>		<p>REV. NO</p>	
REV NO	DATE	DESCRIPTION	BY	APP					

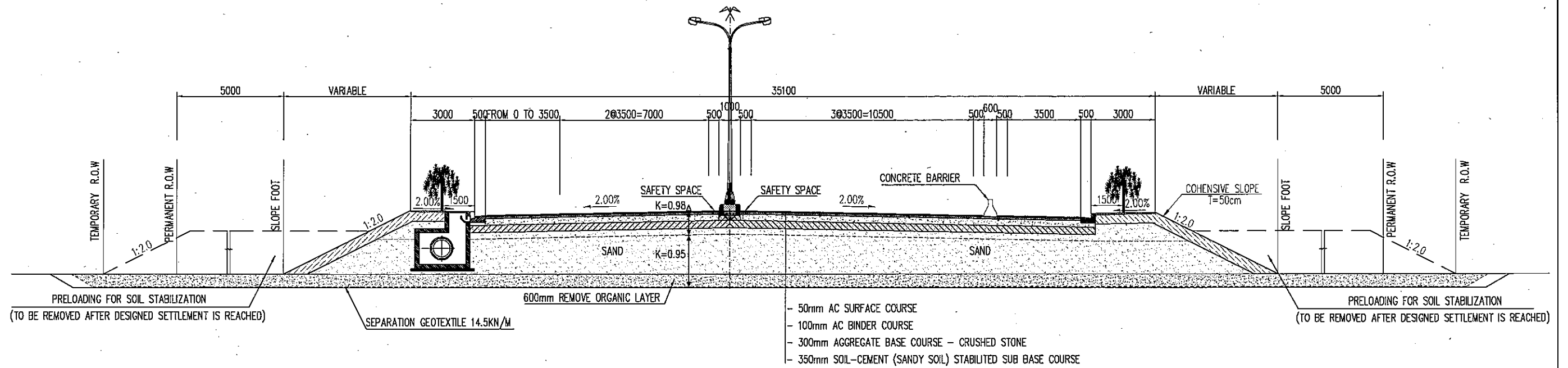
TYPICAL CROSS SECTION OF ACCESS ROAD TO THI VAI TERMINAL

SCALE 1 : 200

SECTION: CONNECTING WITH EXISTING ROAD



SECTION: ACCESS TO THE MAIN GATE



NOTES:

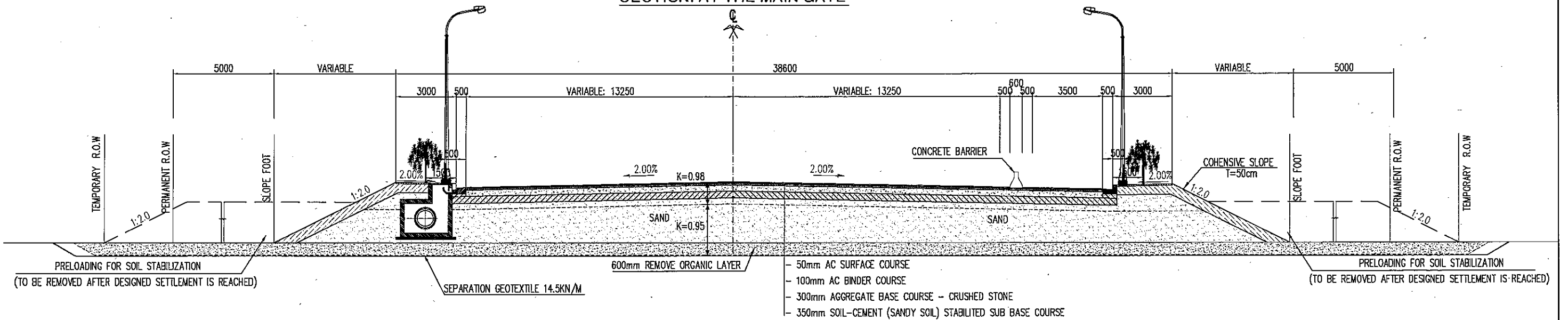
1. DIMENSIONS ARE SHOWN IN MILLIMETER.

<p>THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 95</p>					<p>CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT</p>			<p>DESIGNED BY: J. R. MONTANO MICHEL DRAWN BY: NGUYEN LAM GIANG CHECKED BY: NAGAIK APPROVED BY: NAGAIK ISSUE DATE: JAN 10, 2006 SCALE: 1/200</p>		<p>SECTION: ACCESS ROAD SUB-SECTION: ROAD CONSTRUCTION - ROAD TITLE OF DRAWING: TYPICAL CROSS SECTION (1) DWG NO: PAC2-TV-ACR-002 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							

TYPICAL CROSS SECTION OF ACCESS ROAD TO THI VAI TERMINAL

SCALE 1 : 200

SECTION: AT THE MAIN GATE



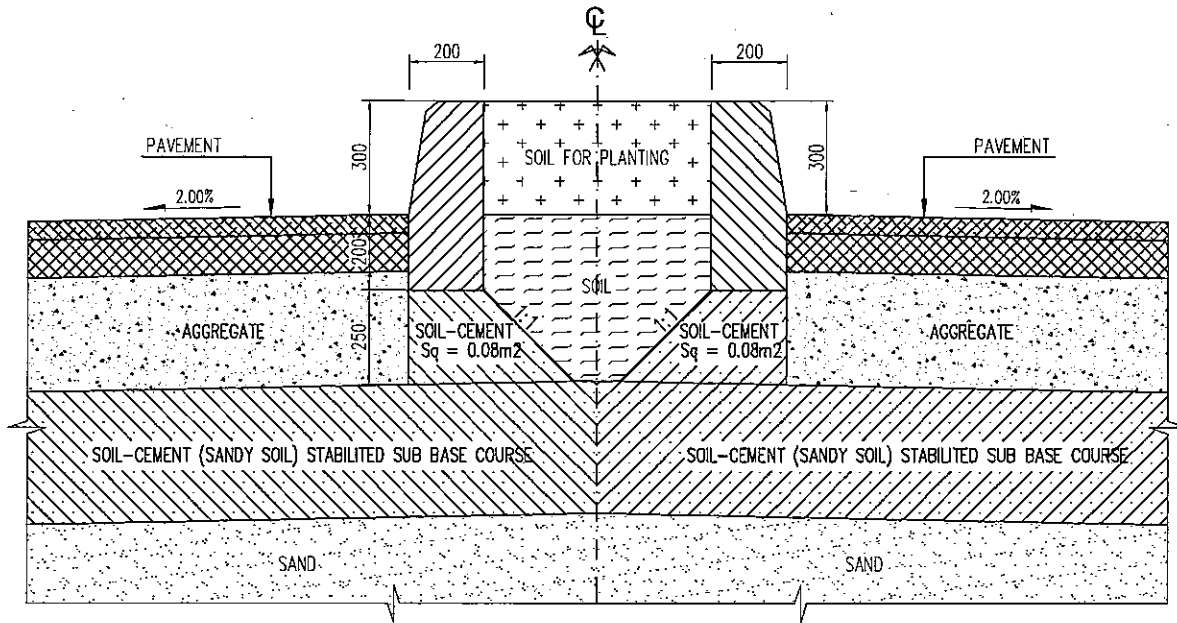
NOTES:

1. DIMENSIONS ARE SHOWN IN MILLIMETER.

<p>THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>					<p>CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT</p>			<p>DESIGNED BY: J. R. MONTANO MICHEL</p>		<p>SECTION: ACCESS ROAD</p>	
<p>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>DRAWN BY: NGUYEN LAM GIANG</p>		<p>SUB-SECTION: ROAD CONSTRUCTION - ROAD</p>	
<p>JICA PCIC IDS</p>								<p>CHECKED BY: NAGAI K.</p>		<p>TITLE OF DRAWING: TYPICAL CROSS SECTION (2)</p>	
<p>REV NO DATE DESCRIPTION BY APP</p>								<p>APPROVED BY: NAGAI K.</p>		<p>DWG NO: PAC2-TV-ACR-003</p>	
								<p>ISSUE DATE: JAN 10, 2006</p>		<p>REV. NO</p>	
								<p>SCALE: 1/200</p>			

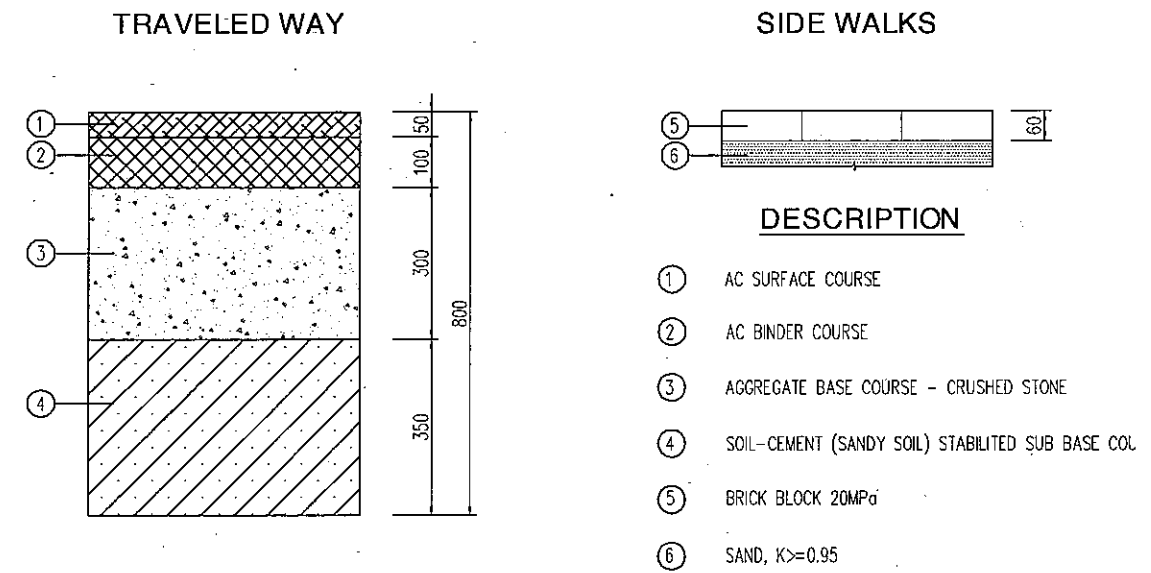
GENERAL ARRANGEMENT OF MEDIAN

SCALE 1:20



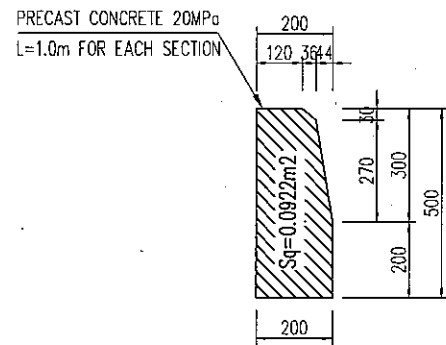
PAVEMENT STRUCTURE OF TRAVELED WAY & SIDE WALKS

SCALE 1:15



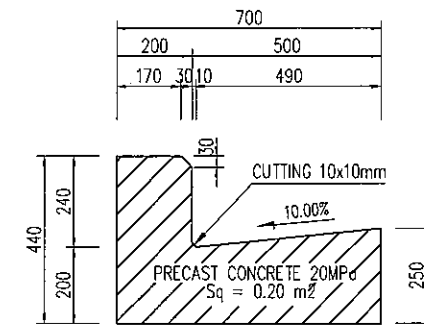
DETAIL OF MEDIAN

SCALE 1:20



DETAIL OF CURB

SCALE 1:20



NOTES:

1. DIMENSIONS ARE SHOWN IN MILLIMETER.

<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 CONSTRUCTION PROJECT</p>		<p>DESIGNED BY: J. R. MONTANO MICHEL DRAWN BY: NGUYEN LAM GIANG CHECKED BY: NAGAI K. APPROVED BY: NAGAI K. ISSUE DATE: JAN 10, 2006 SCALE: 1/20, 1/15</p>		<p>SECTION: ACCESS ROAD SUB-SECTION: ROAD CONSTRUCTION - ROAD TITLE OF DRAWING: DETAIL OF CURB, MEDIAN & PAVEMENT</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>DWG NO: PAC2-TV-ACR-004</p>		<p>REV. NO</p>	
REV NO	DATE	DESCRIPTION	BY	APP						

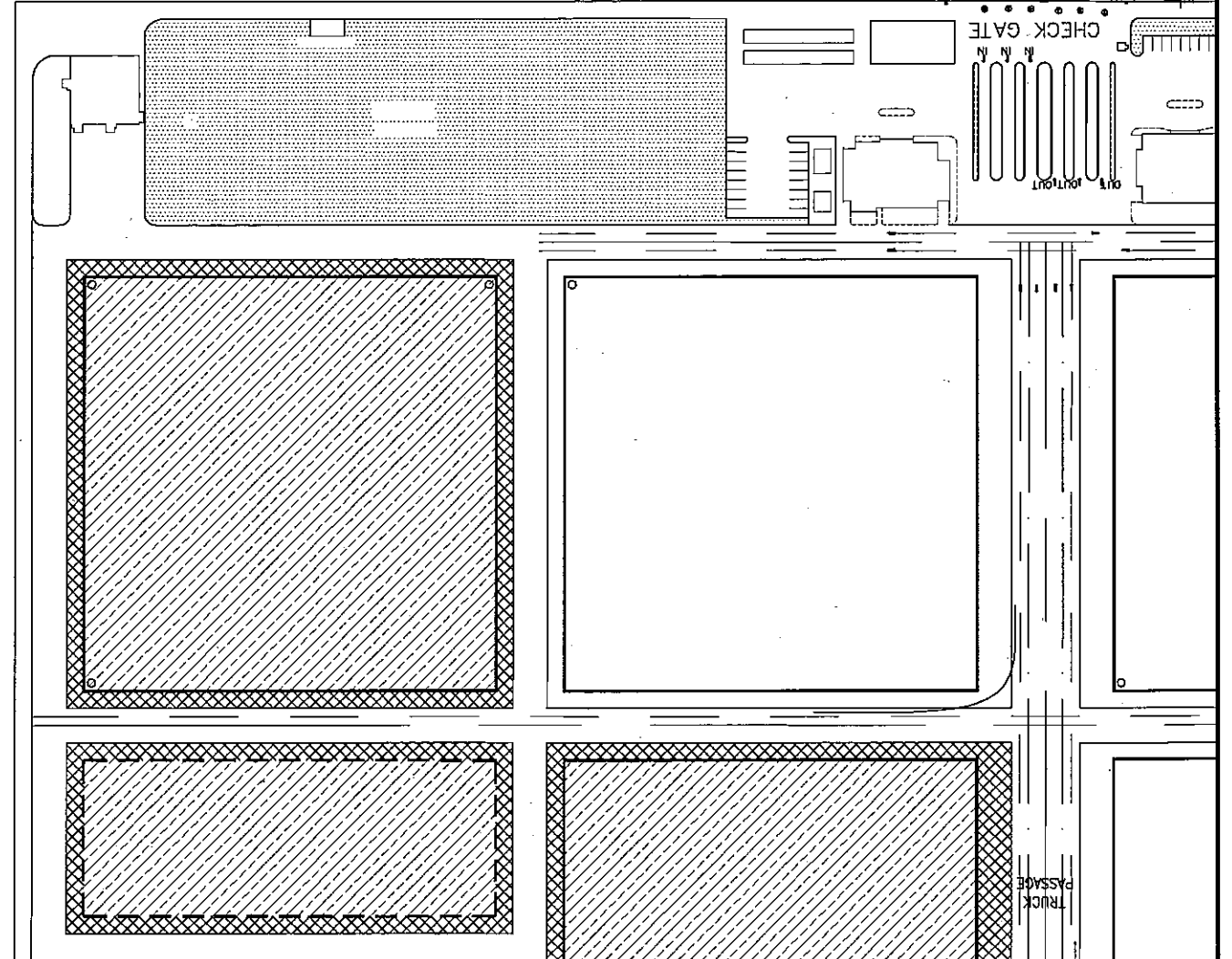
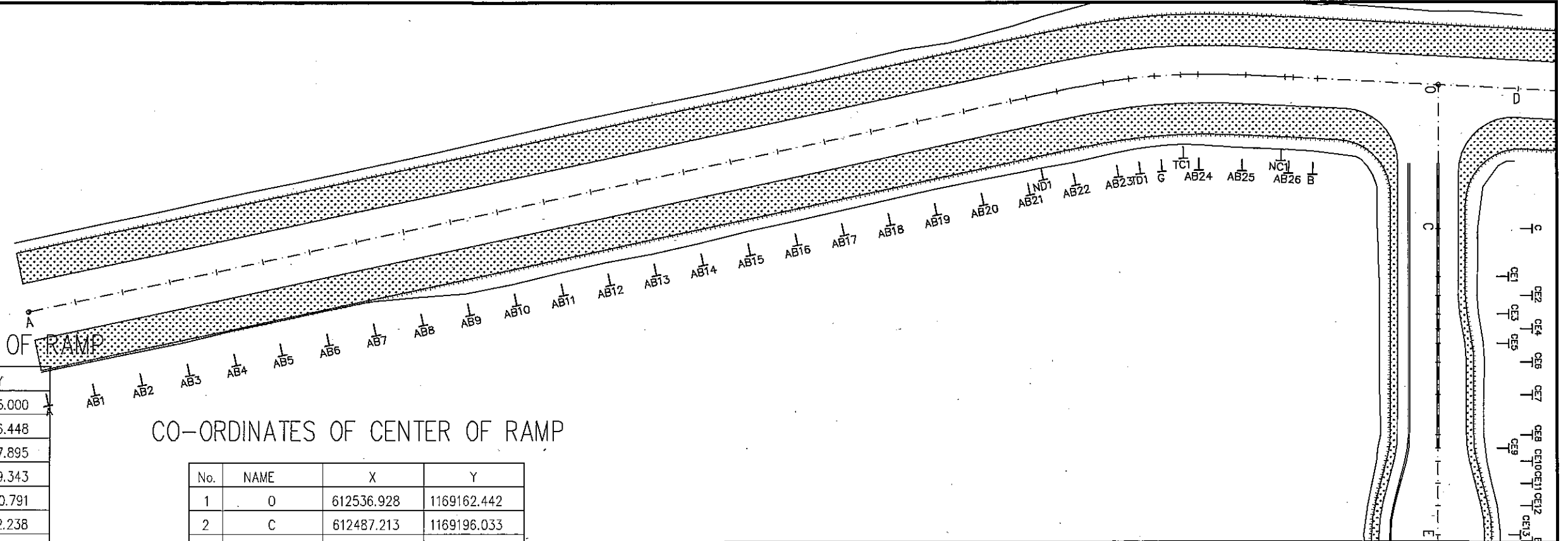
CO-ORDINATES OF CENTER OF RAMP

No.	NAME	X	Y
1	A	612789.000	1169705.000
2	AB1	612781.529	1169686.448
3	AB2	612774.059	1169667.895
4	AB3	612766.588	1169649.343
5	AB4	612759.117	1169630.791
6	AB5	612751.646	1169612.238
7	AB6	612744.176	1169593.686
8	AB7	612736.705	1169575.134
9	AB8	612729.234	1169556.582
10	AB9	612721.763	1169538.029
11	AB10	612714.293	1169519.477
12	AB11	612706.822	1169500.925
13	AB12	612699.351	1169482.372
14	AB13	612691.881	1169463.820
15	AB14	612684.410	1169445.268
16	AB15	612676.939	1169426.715
17	AB16	612669.468	1169408.163
18	AB17	612661.998	1169389.611
19	AB18	612654.527	1169371.058
20	AB19	612647.056	1169352.506
21	AB20	612639.585	1169333.954
22	AB21	612632.115	1169315.401
23	ND1	612629.601	1169309.159
24	AB22	612624.611	1169296.862
25	AB23	612616.659	1169278.513
26	TD1	612611.981	1169268.857
27	G	612606.816	1169259.235
28	TC1	612601.235	1169249.847
29	AB24	612597.214	1169243.604
30	AB25	612585.716	1169227.243
31	NC1	612575.791	1169213.969
32	AB26	612573.728	1169211.234
33	B	612567.605	1169203.116
34	D	612516.427	1169135.259

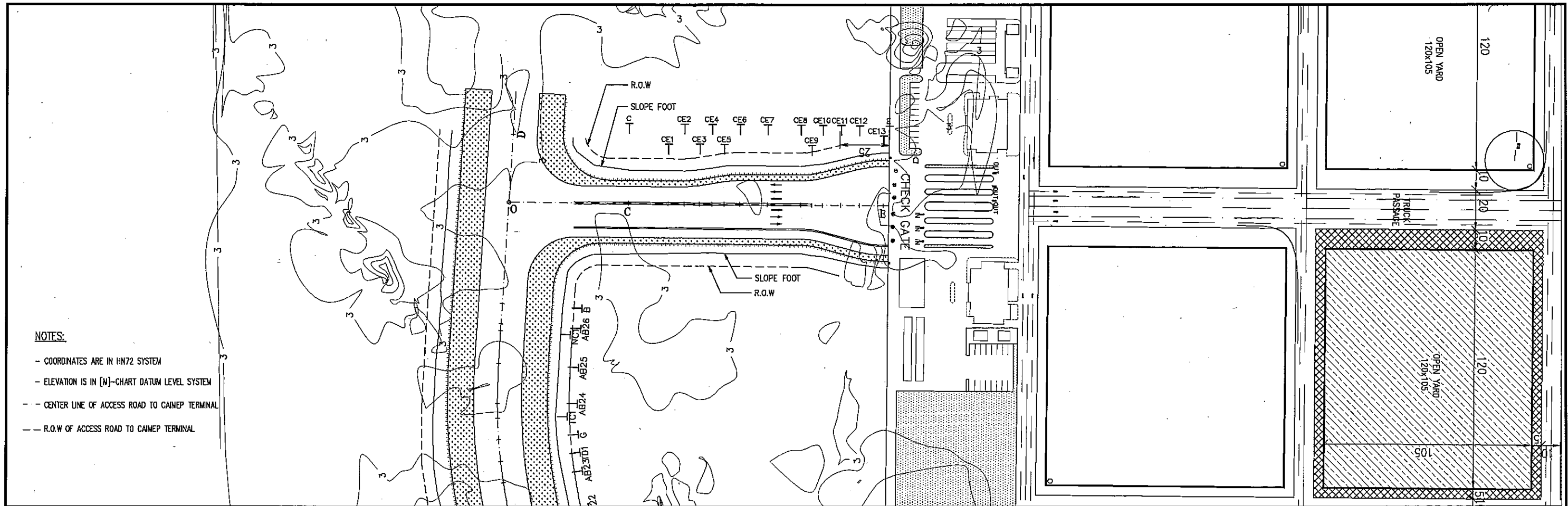
CO-ORDINATES OF CENTER OF RAMP

No.	NAME	X	Y
1	O	612536.928	1169162.442
2	C	612487.213	1169196.033
3	CE1	612470.641	1169207.230
4	CE2	612464.070	1169211.671
5	CE3	612457.714	1169215.965
6	CE4	612452.617	1169219.409
7	CE5	612447.521	1169222.852
8	CE6	612441.022	1169227.243
9	CE7	612429.695	1169234.897
10	CE8	612415.855	1169244.248
11	CE9	612411.206	1169247.389
12	CE10	612406.632	1169250.480
13	CE11	612398.969	1169255.657
14	CE12	612391.307	1169260.834
15	CE13	612381.151	1169267.696
16	E	612378.884	1169269.228

NOTES:
- COORDINATES ARE IN HN72 SYSTEM

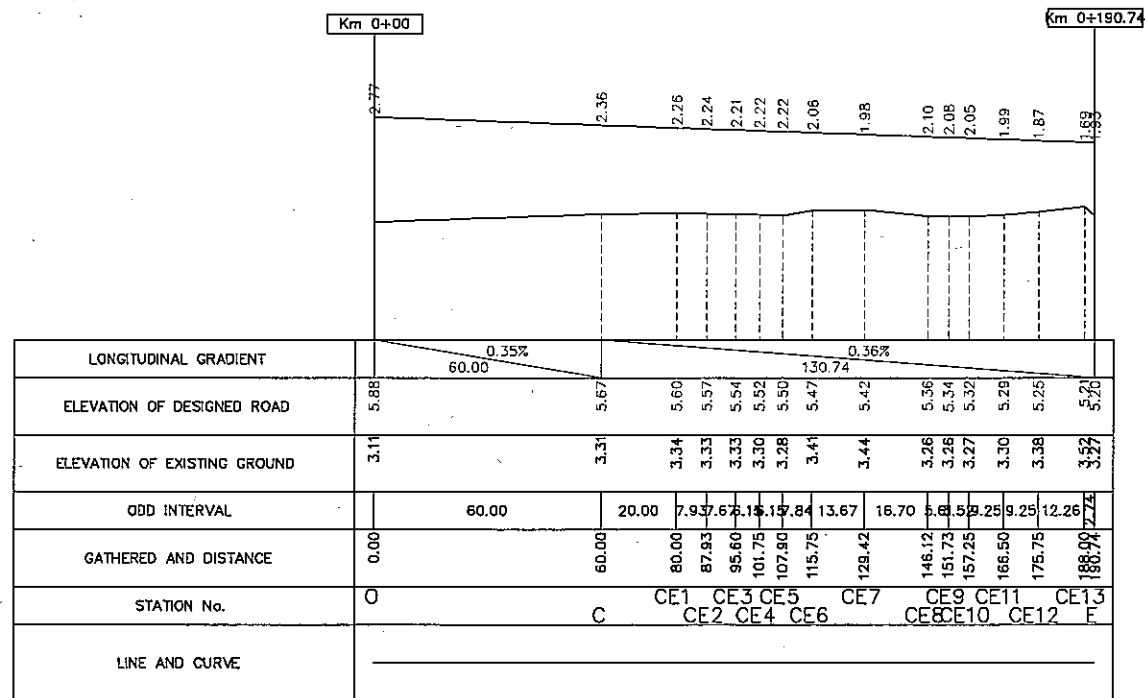


<p>THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>		<p>CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT</p>		<p>DESIGNED BY: J. R. MONTANO MICHEL DRAWN BY: TRUONG HOA BINH CHECKED BY: NAGAIK APPROVED BY: NAGAIK ISSUE DATE: OCT 10, 2005 SCALE:</p>		<p>SECTION: ACCESS ROAD SUB-SECTION: ROAD CONSTRUCTION-ROAD TITLE OF DRAWING: CO-ORDINATES OF CENTER LINE STAKES</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 CAI MEP AREA</p>		<p>DWG NO: PAC2-TV-ACR-005</p>		<p>REV. NO</p>	
REV NO	DATE	DESCRIPTION	BY	APP			

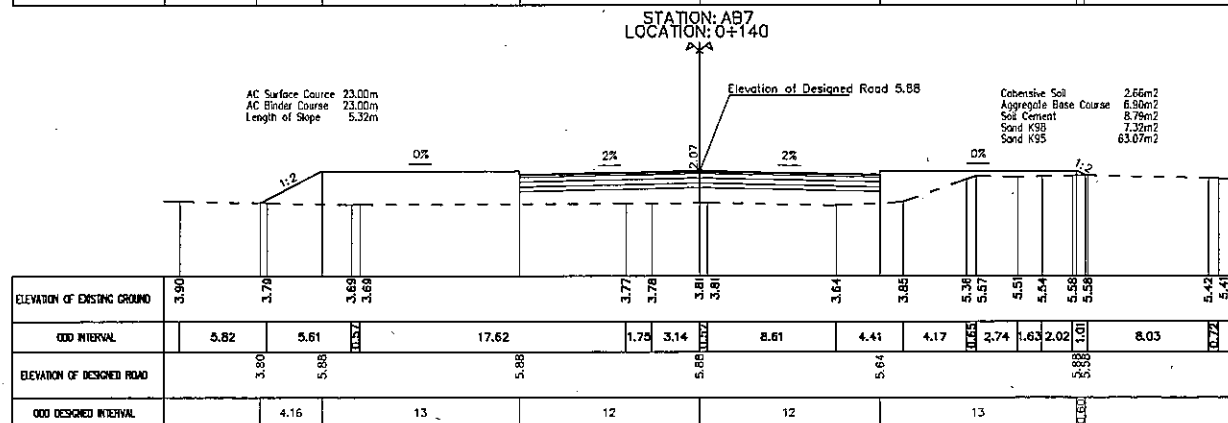
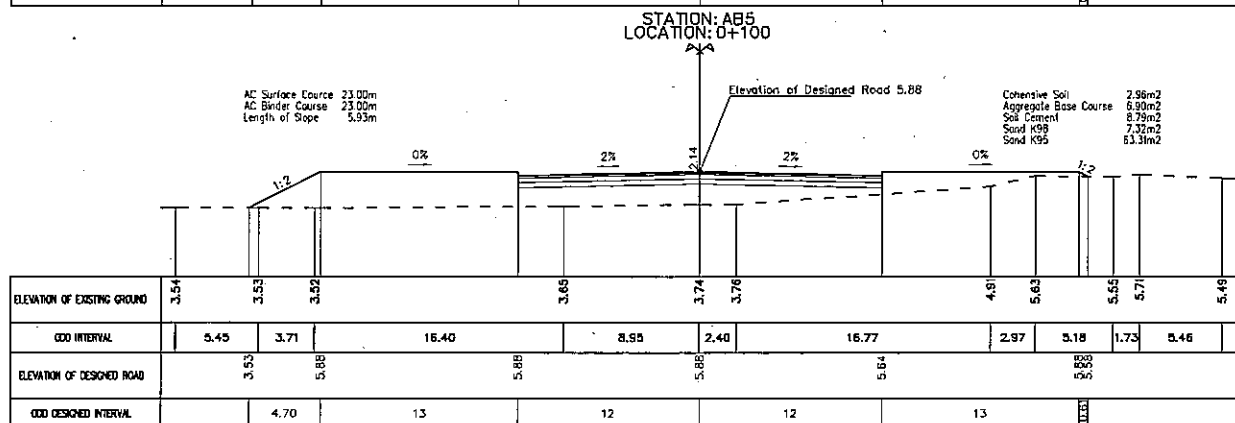
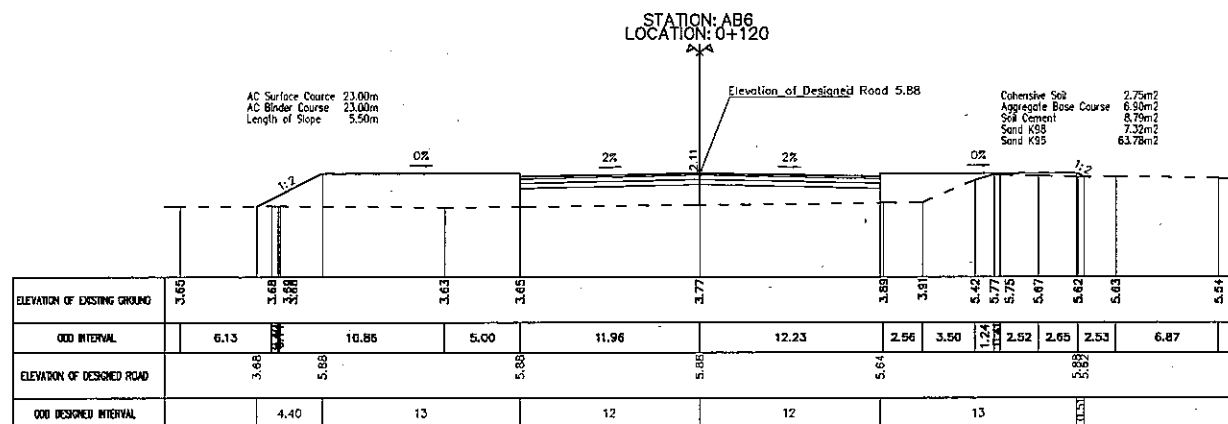
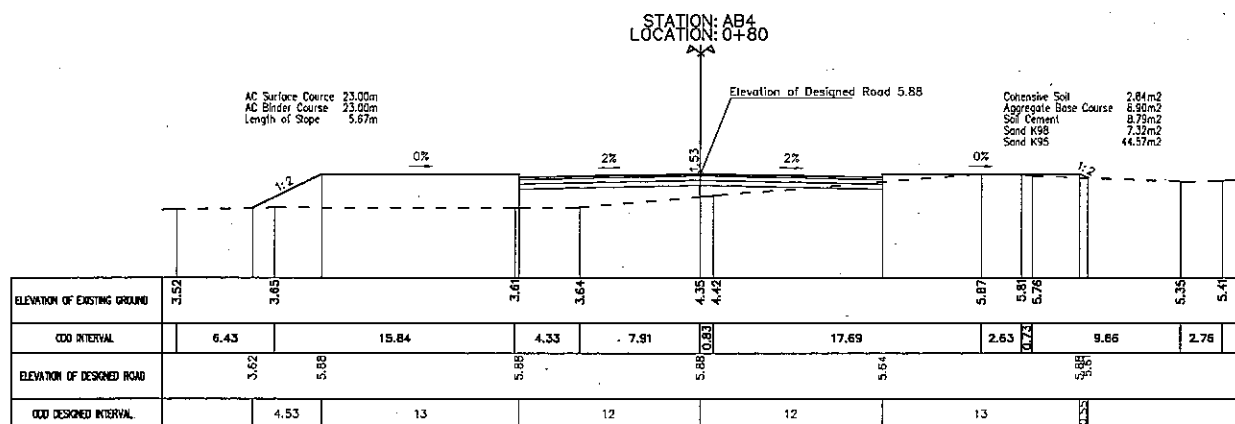
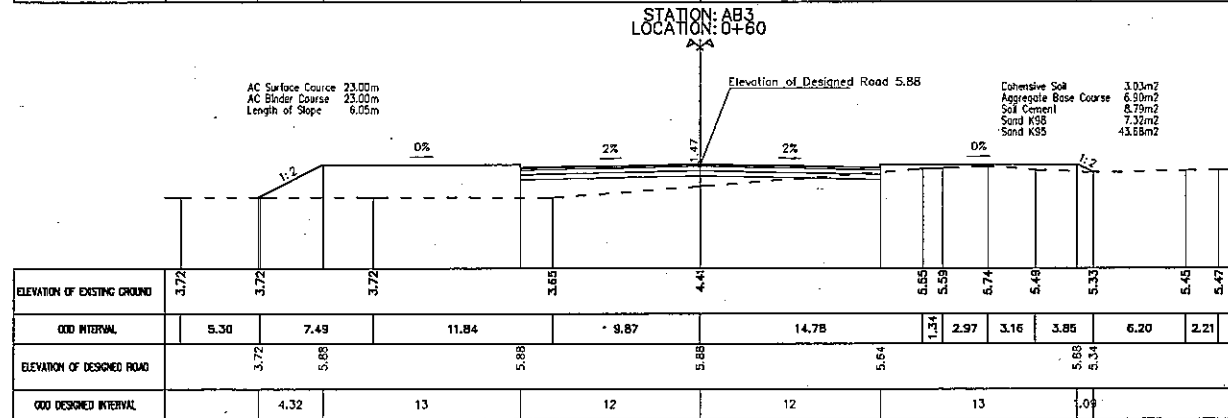
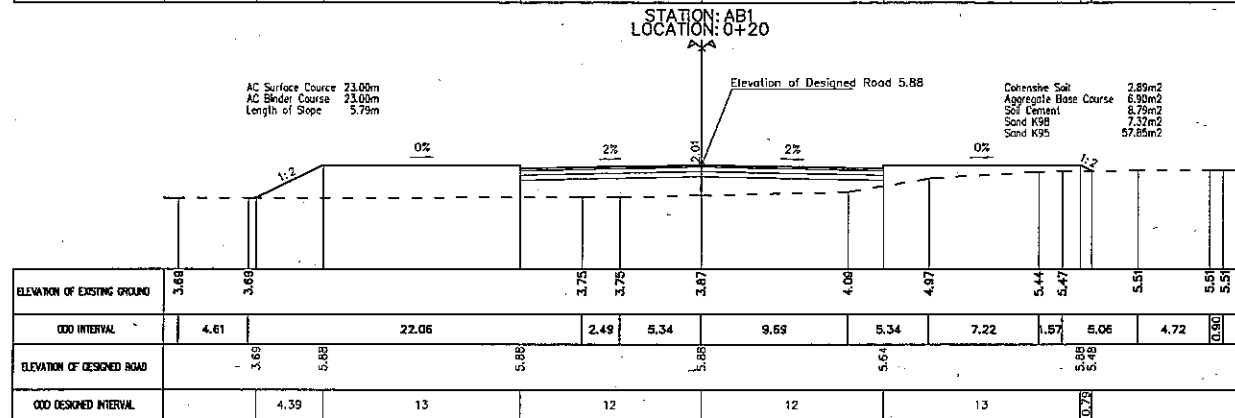
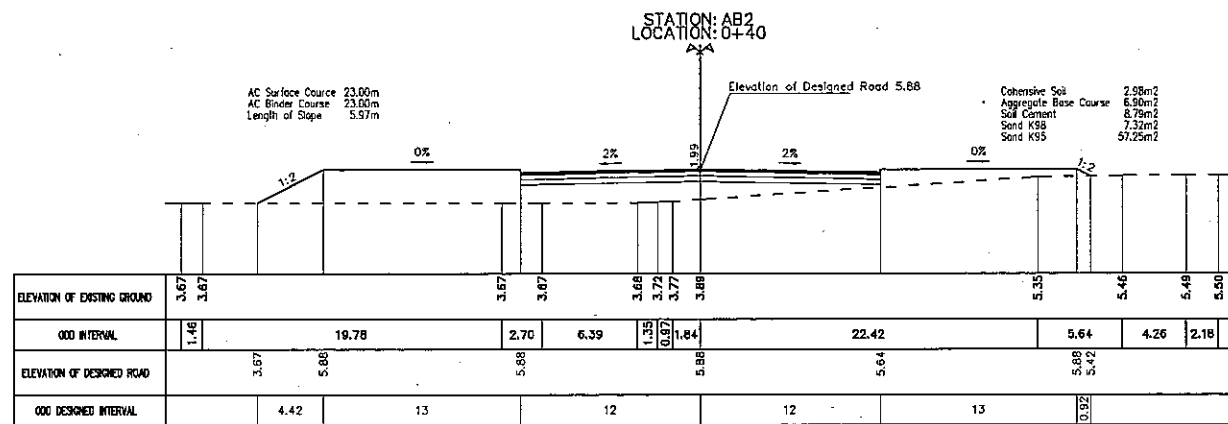
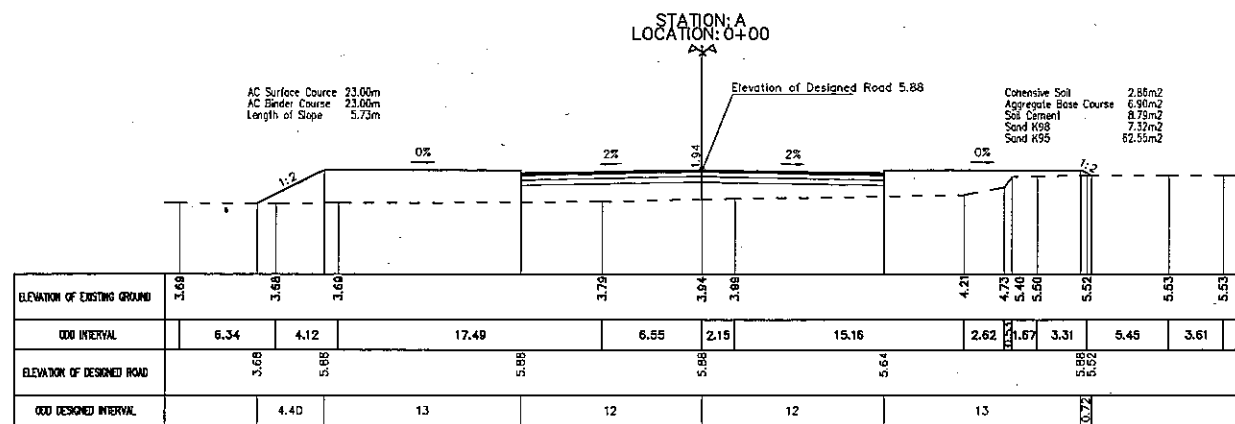


NOTES:

- COORDINATES ARE IN HN72 SYSTEM
- ELEVATION IS IN [N]-CHART DATUM LEVEL SYSTEM
- - - CENTER LINE OF ACCESS ROAD TO CAI MEP TERMINAL
- - - R.O.W OF ACCESS ROAD TO CAI MEP TERMINAL

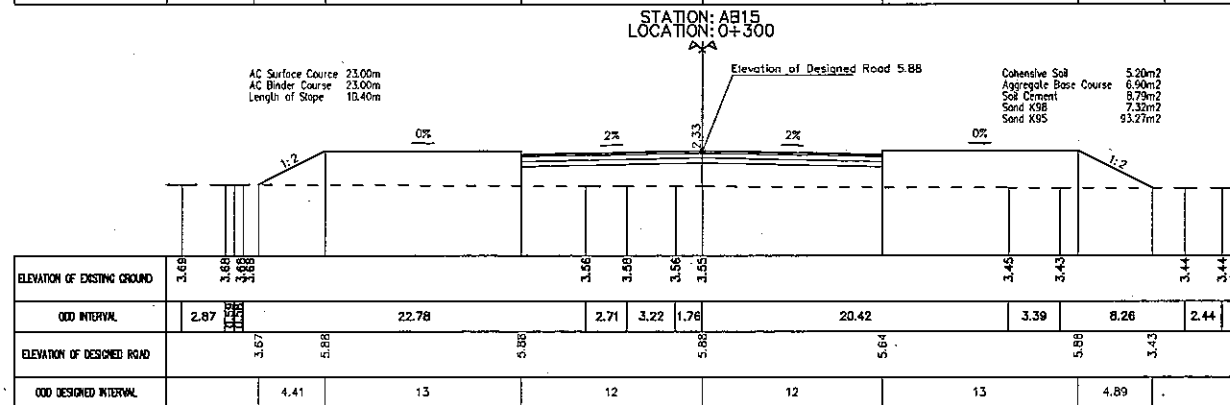
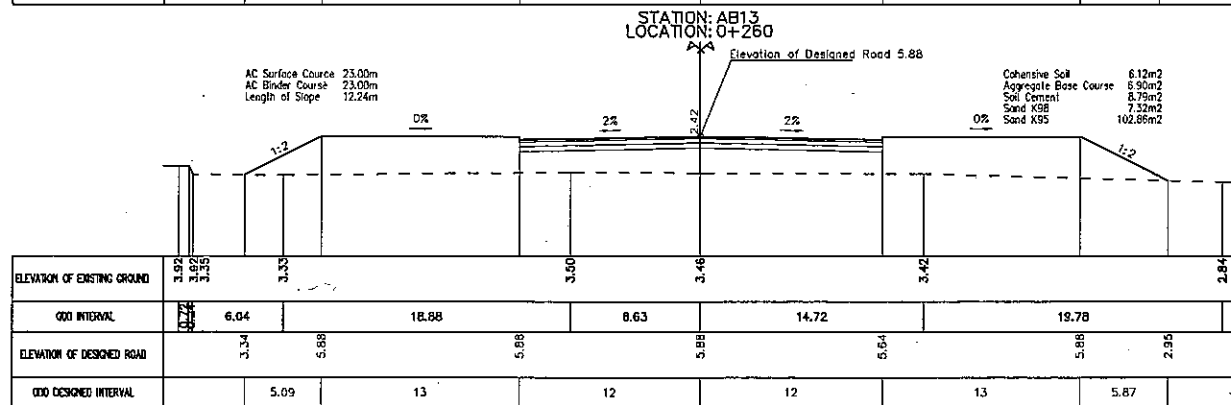
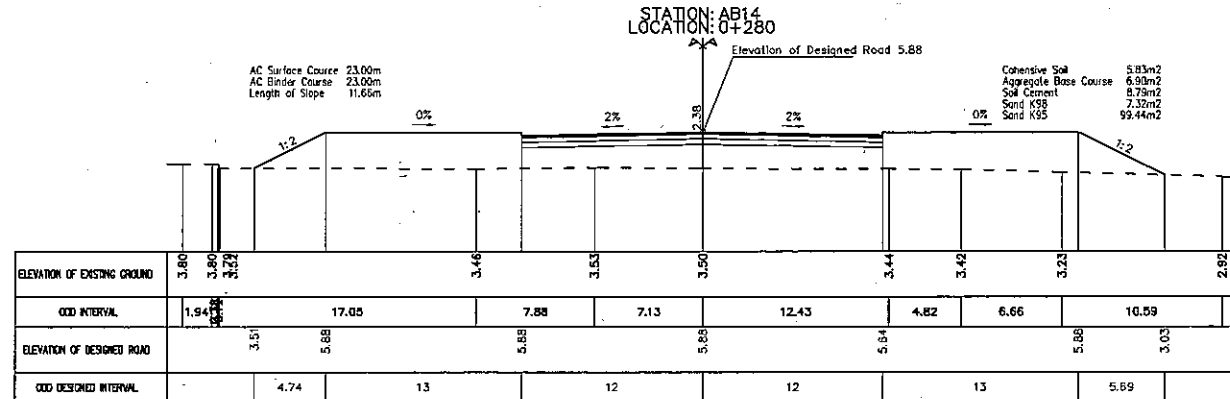
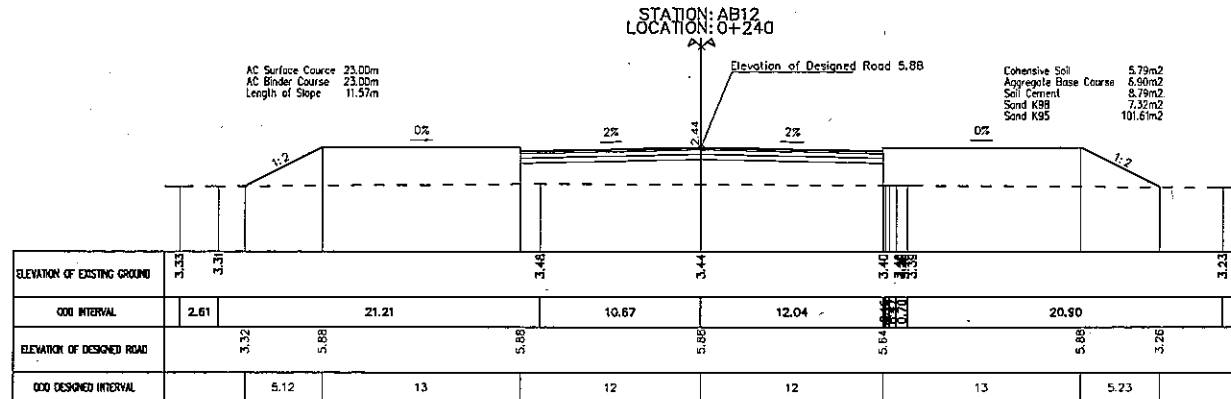
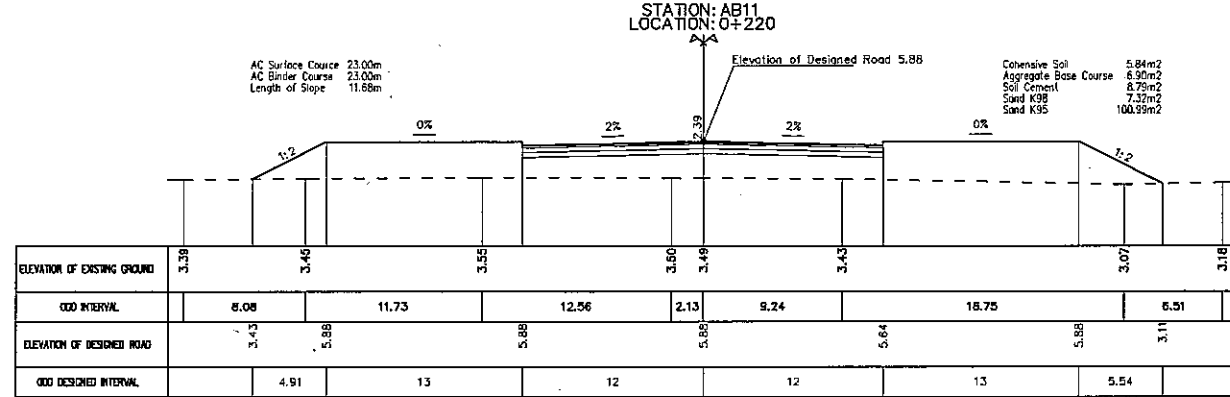
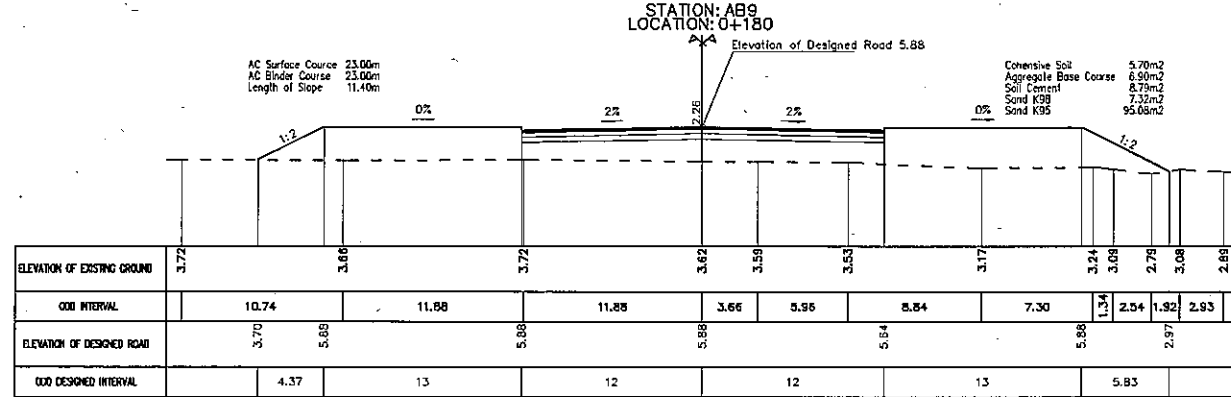
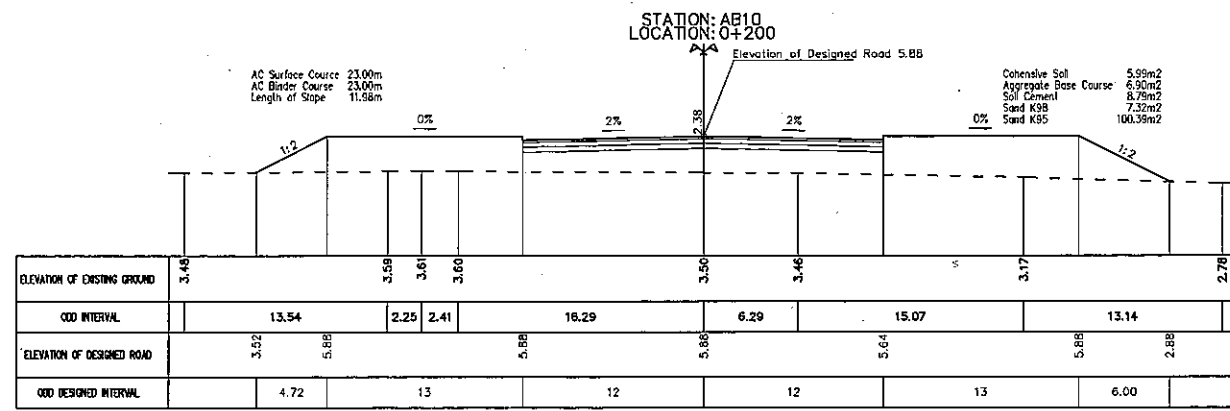
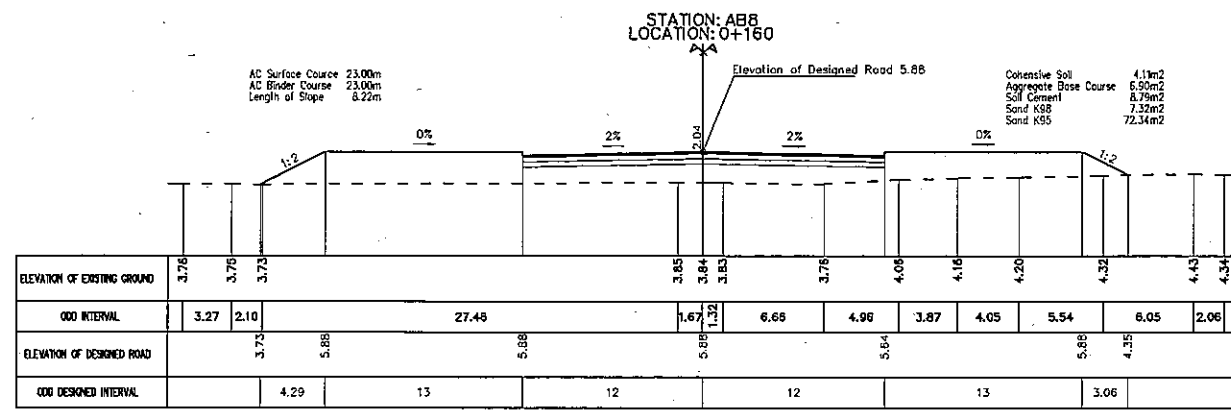


	THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85	CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA	DESIGNED BY: J. R. MONTANO MICHEL DRAWN BY: TRUONG HOA BINH CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: OCT 10, 2005 SCALE: 1/2000	
			SECTION: ACCESS ROAD TO THI VAI TERMINAL SUB-SECTION: ROAD CONSTRUCTION-ROAD TITLE OF DRAWING: PLAN AND PROFILE-ACCESS RAMP TO THI VAI TERMINAL DWG NO: PAC2-TV-ACR-007 REV. NO:	
REV NO	DATE	DESCRIPTION	BY	APP.



NOTE:
1. THE DEPTH OF UNSUITABLE MATERIALS REMOVAL IS 60CM AND IT SHALL BE SHOWN IN SOIL IMPROVEMENT SECTION.
2. REFERENCE DRAWINGS:

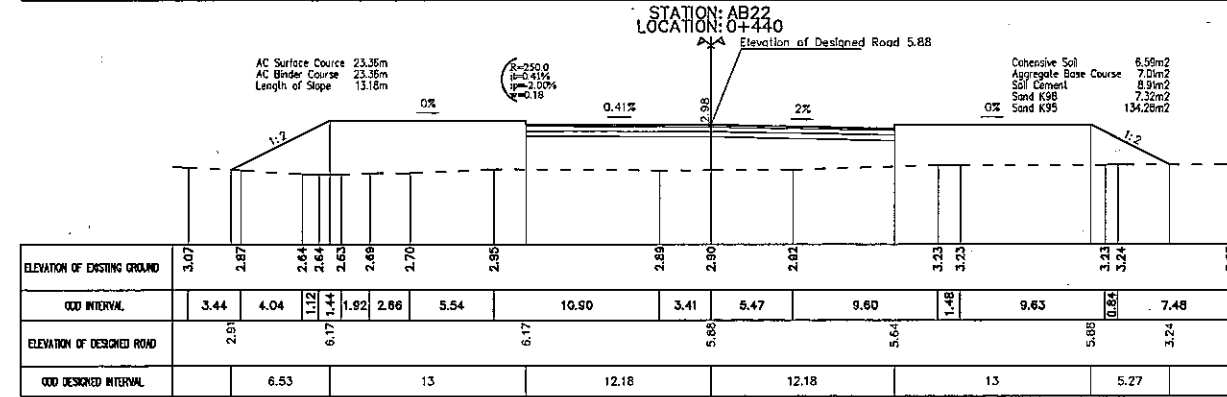
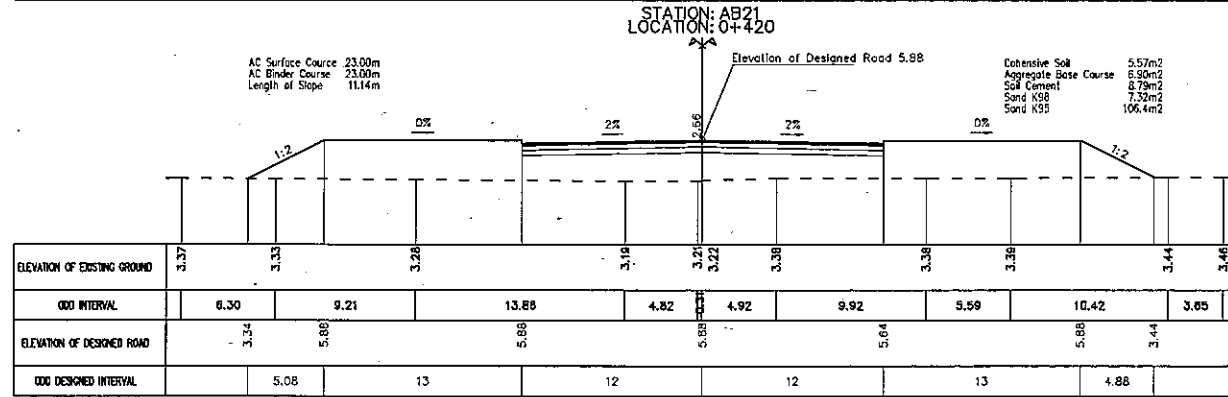
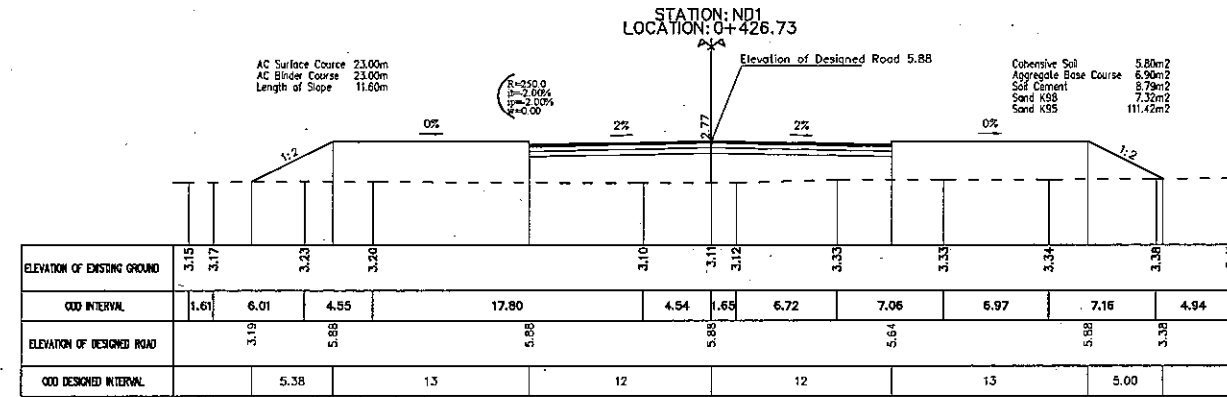
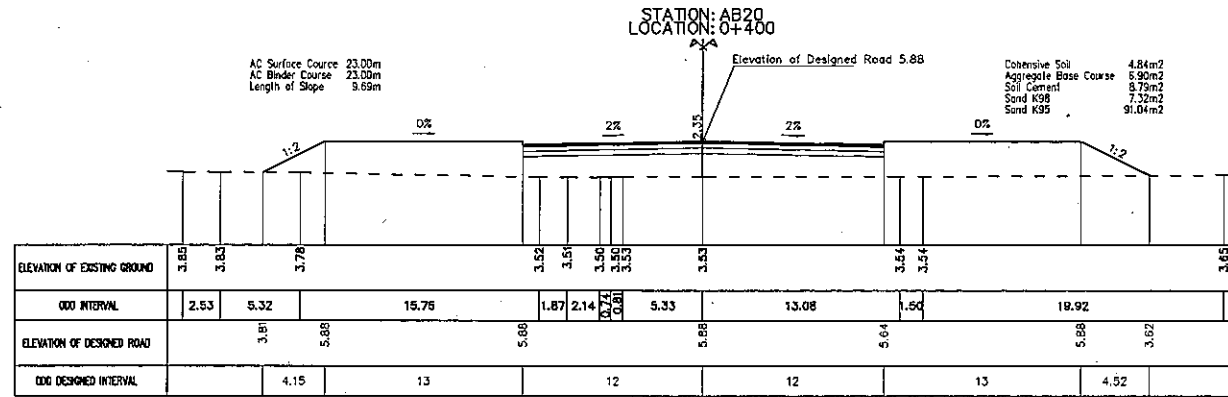
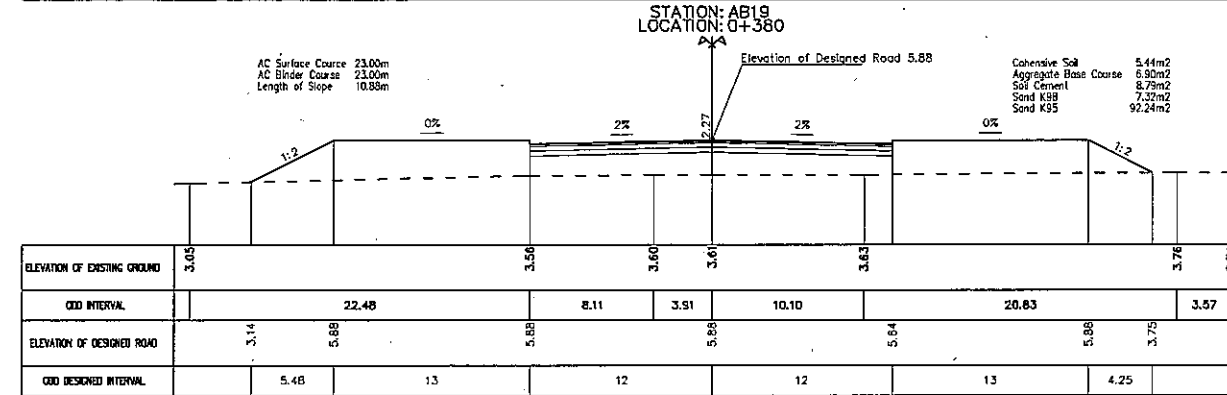
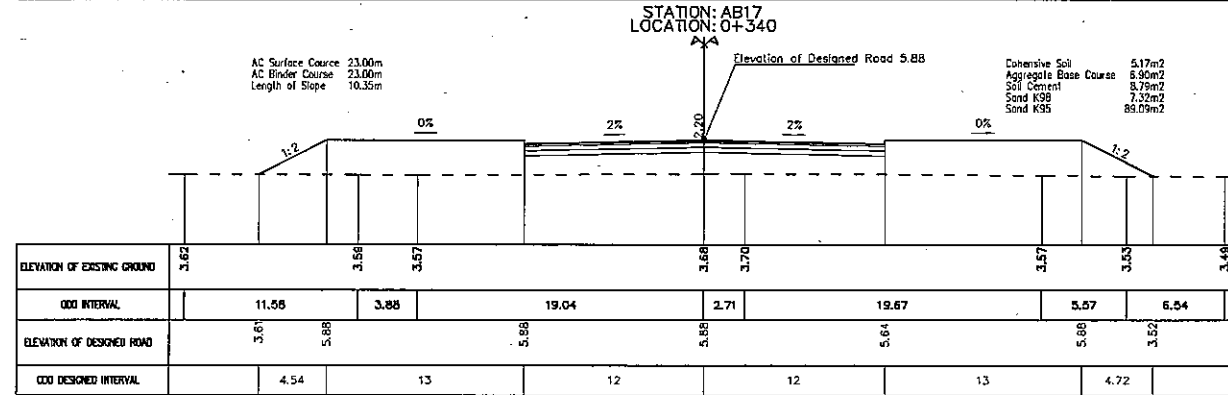
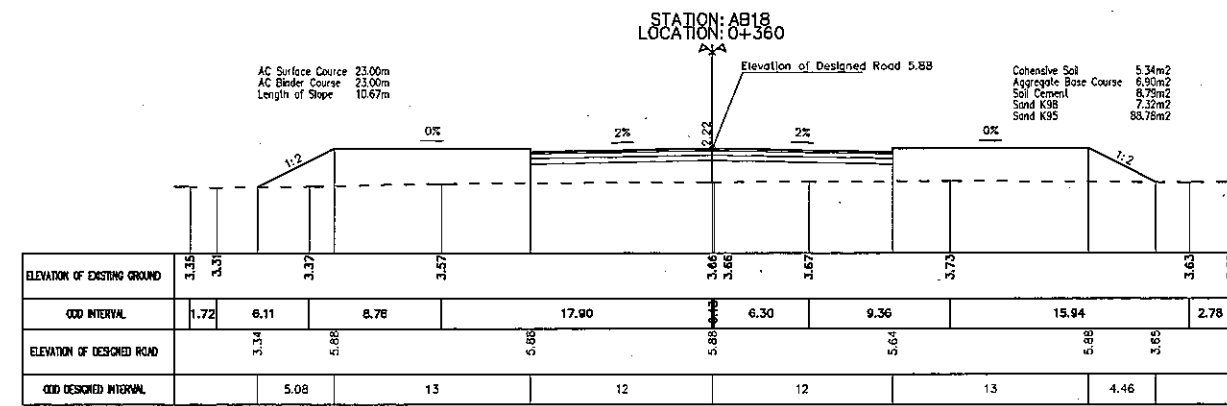
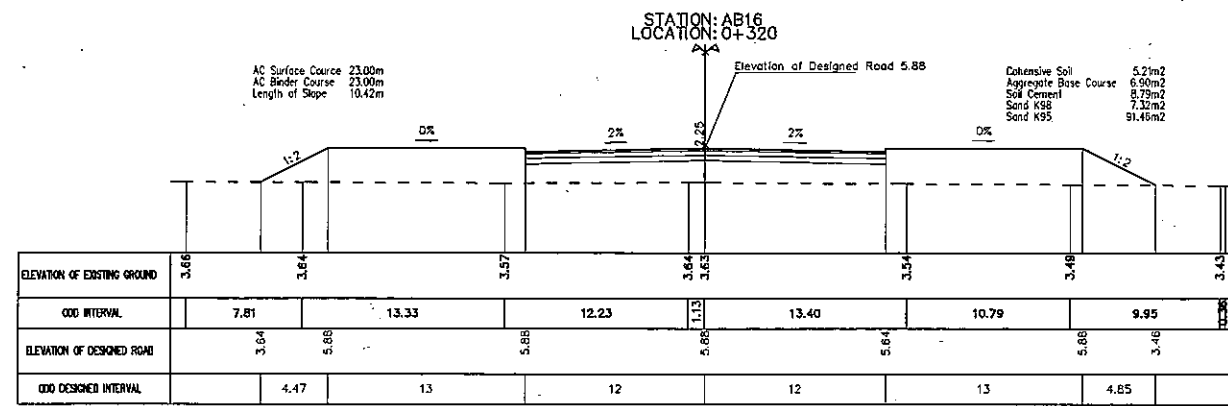
					THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: J. R. MONTANO MICHEL DRAWN BY: LE VIET ANH CHECKED BY: NAGAO N. APPROVED BY: NAGAO K. ISSUE DATE: OCT 10, 2005 SCALE: 1:500		SECTION: ACCESS ROAD SUBSECTION: ROAD CONSTRUCTION - ROAD TITLE OF DRAWING: DETAILED CROSS SECTION (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-ACR-009		REV. NO	
REV NO	DATE	DESCRIPTION	BY	APP								



NOTE:

1. THE DEPTH OF UNSUITABLE MATERIALS REMOVAL IS 60CM AND IT SHALL BE SHOWN IN SOIL IMPROVEMENT SECTION.
2. REFERENCE DRAWINGS:

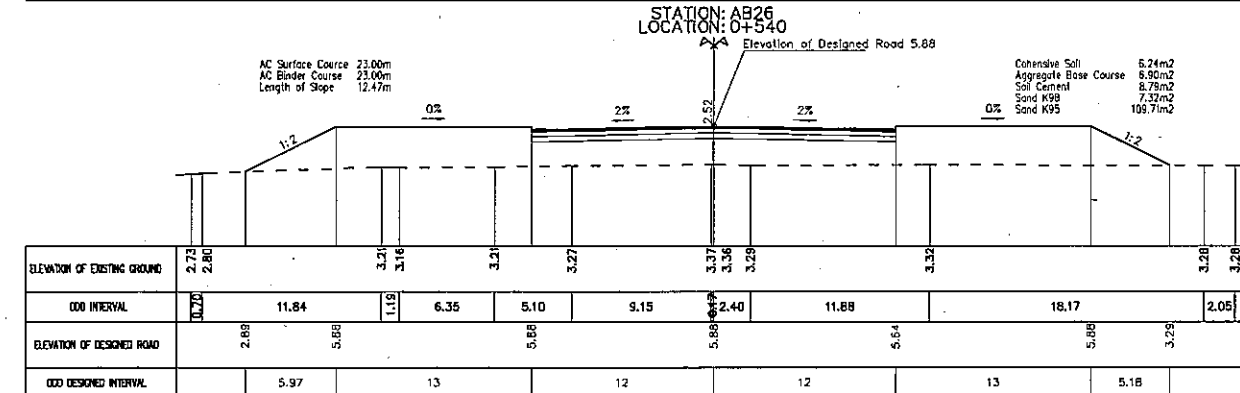
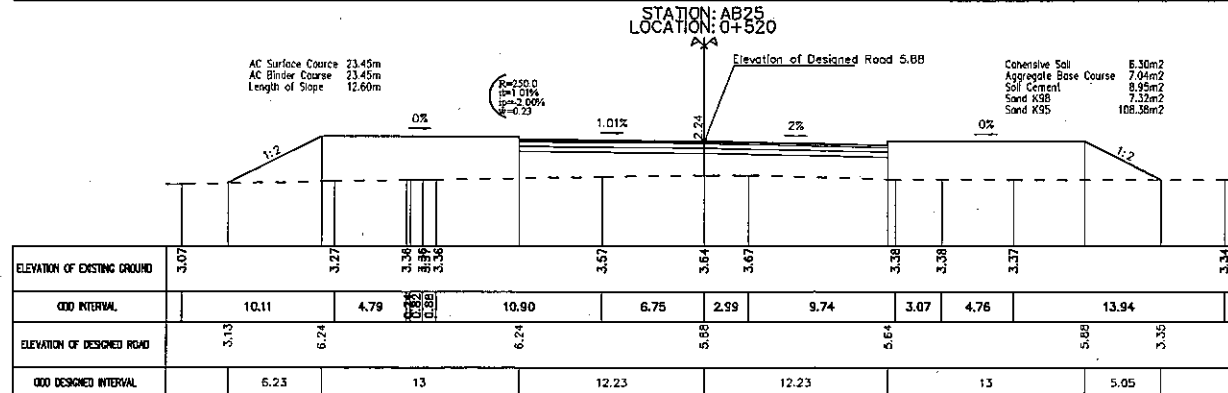
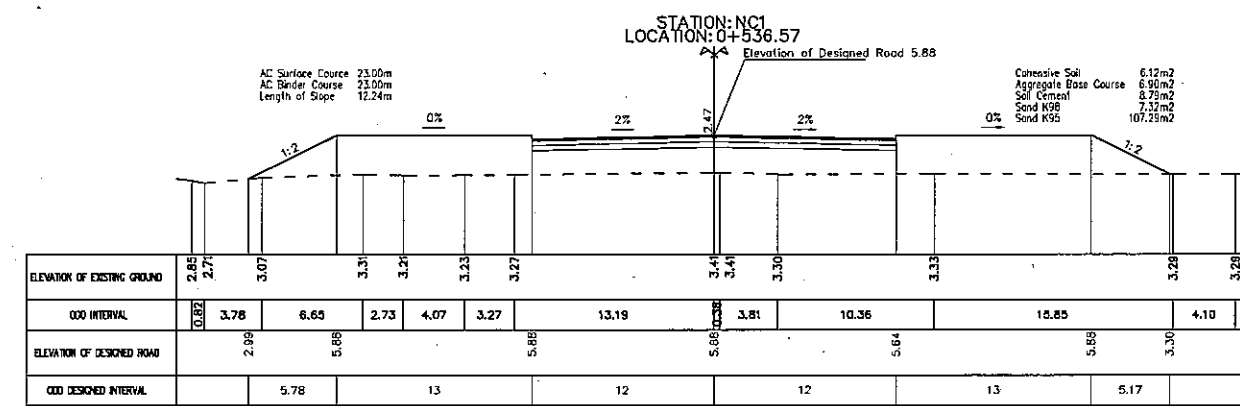
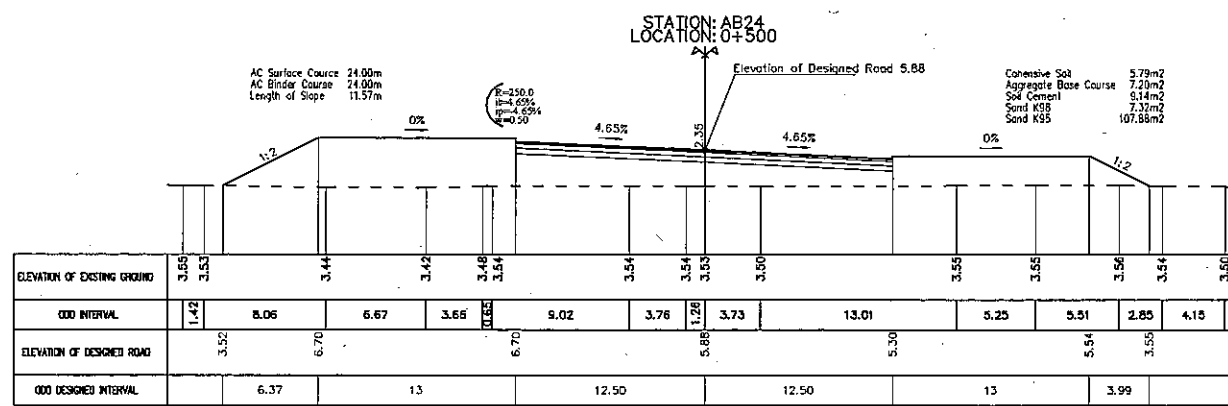
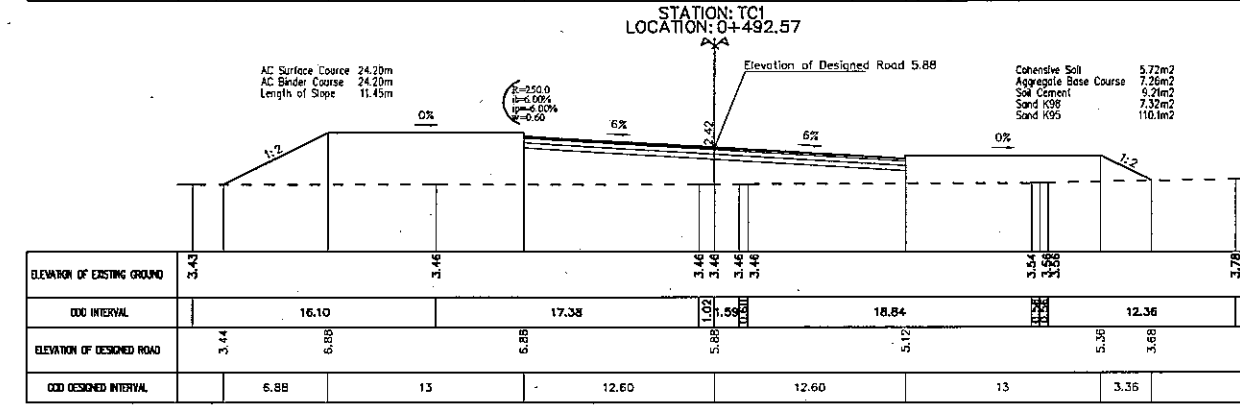
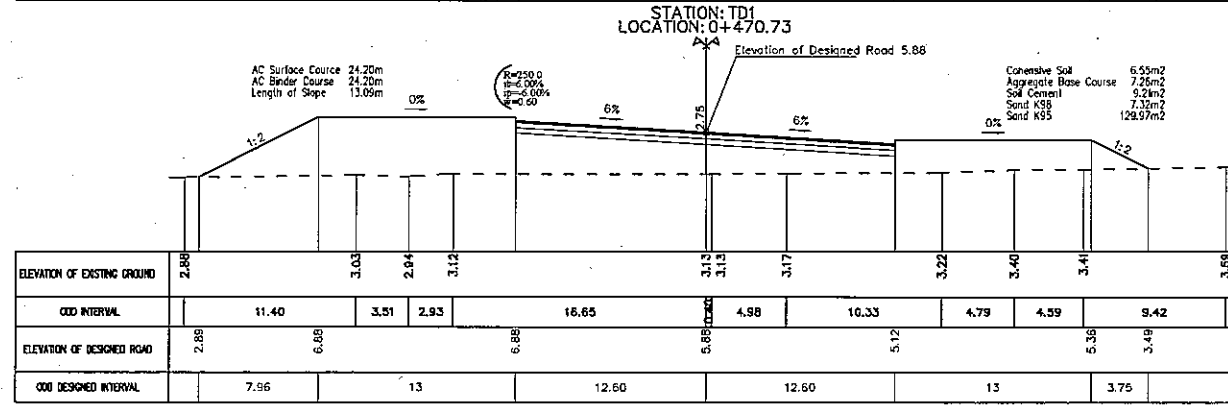
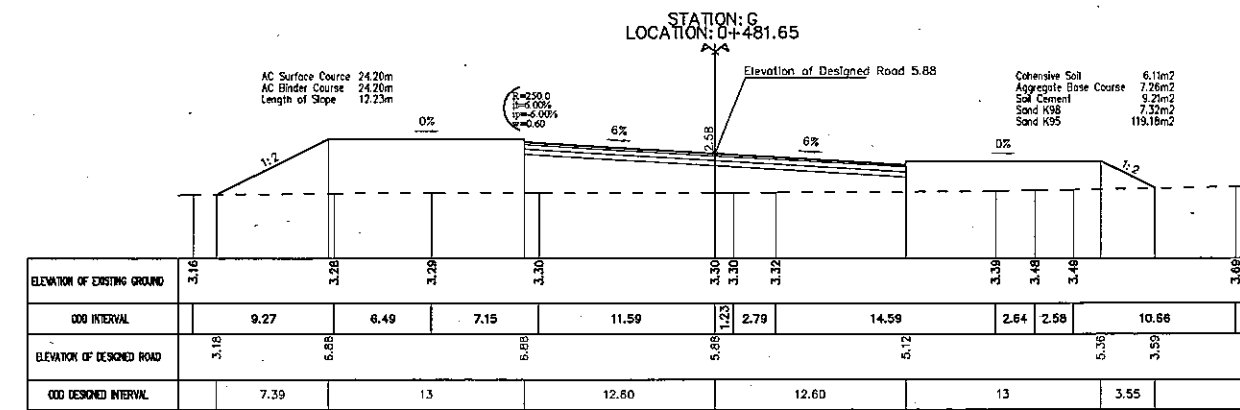
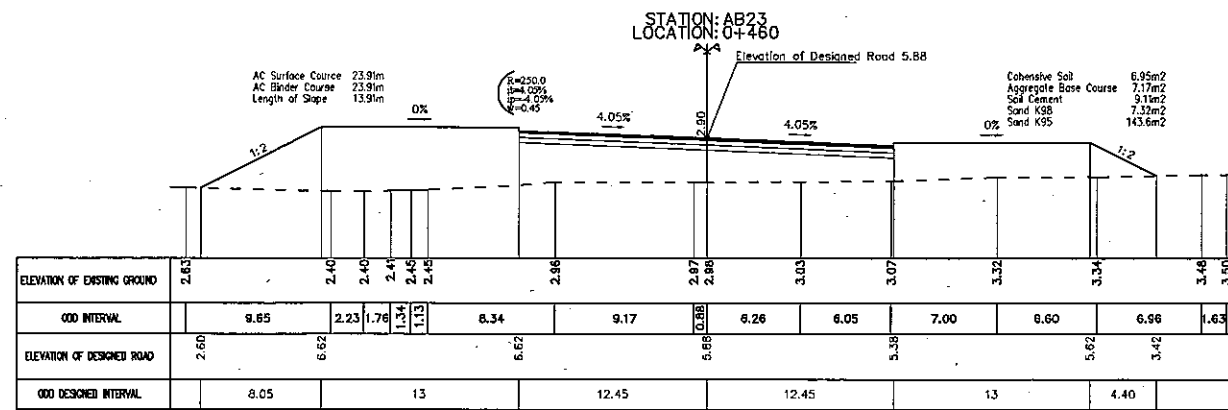
THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85					CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT					DESIGNED BY: J. R. MONTANO MICHEL DRAWN BY: LE VIET ANH CHECKED BY: NAGAI N. APPROVED BY: NAGAI K. ISSUE DATE: OCT 10, 2005 SCALE: 1:500					SECTION: ACCESS ROAD SUB-SECTION: ROAD CONSTRUCTION - ROAD TITLE OF DRAWING: DETAILED CROSS SECTION (2) DWG NO: PAC2-TV-ACR-010 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															



NOTE:

1. THE DEPTH OF UNSUITABLE MATERIALS REMOVAL IS 60CM AND IT SHALL BE SHOWN IN SOIL IMPROVEMENT SECTION.
2. REFERENCE DRAWINGS:

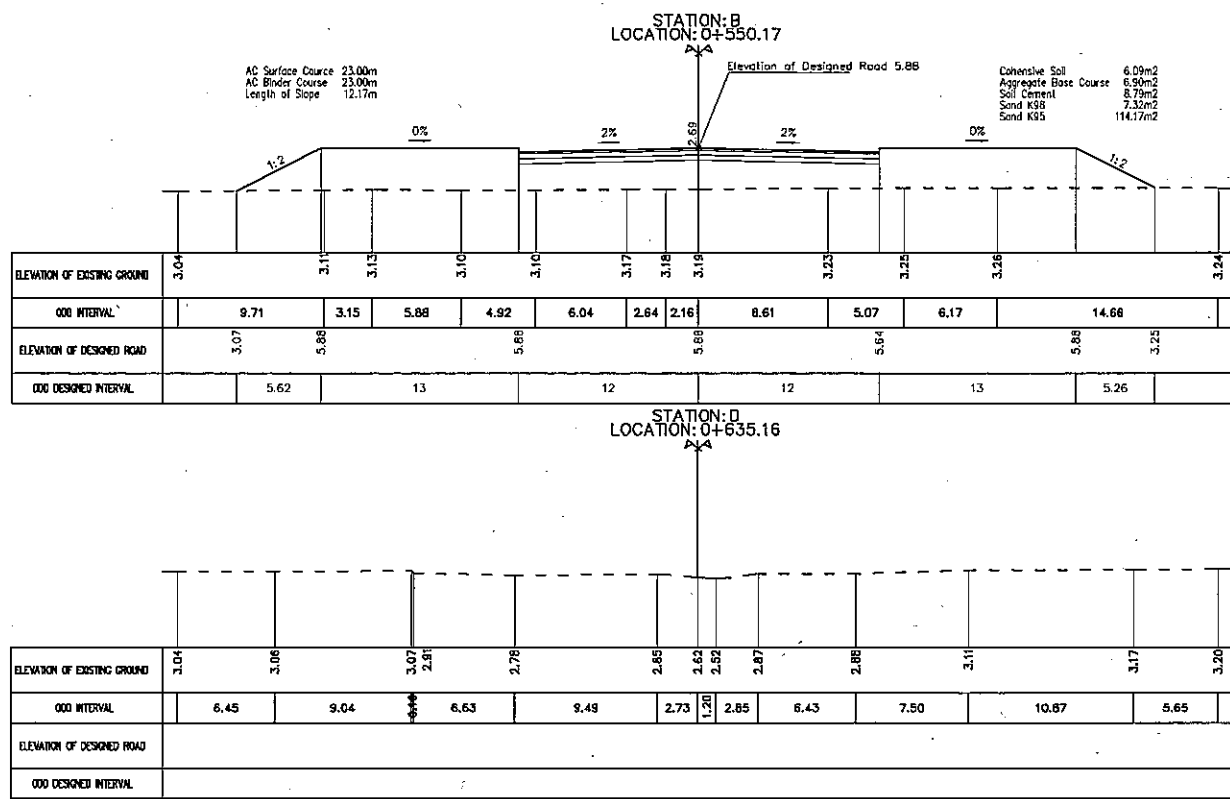
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							PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA		DRAWN BY: LE VIET ANH		SUB-SECTION: ROAD CONSTRUCTION - ROAD	
					JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		APPROVED BY: NAGAI K.		CHECKED BY: NAGAO N.		TITLE OF DRAWING: DETAILED CROSS SECTION (3)	
REV NO	DATE	DESCRIPTION	BY	APP					ISSUE DATE: OCT 10, 2005		DWG NO: PAC2-TV-ACR-011	
									SCALE: 1:500		REV. NO	



NOTE:

1. THE DEPTH OF UNSUITABLE MATERIALS REMOVAL IS 60CM AND IT SHALL BE SHOWN IN SOIL IMPROVEMENT SECTION.
2. REFERENCE DRAWINGS:

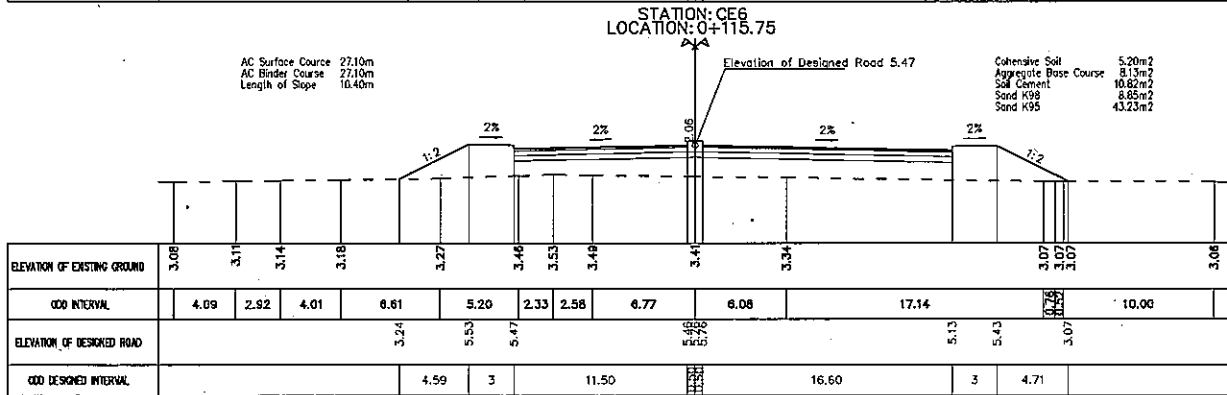
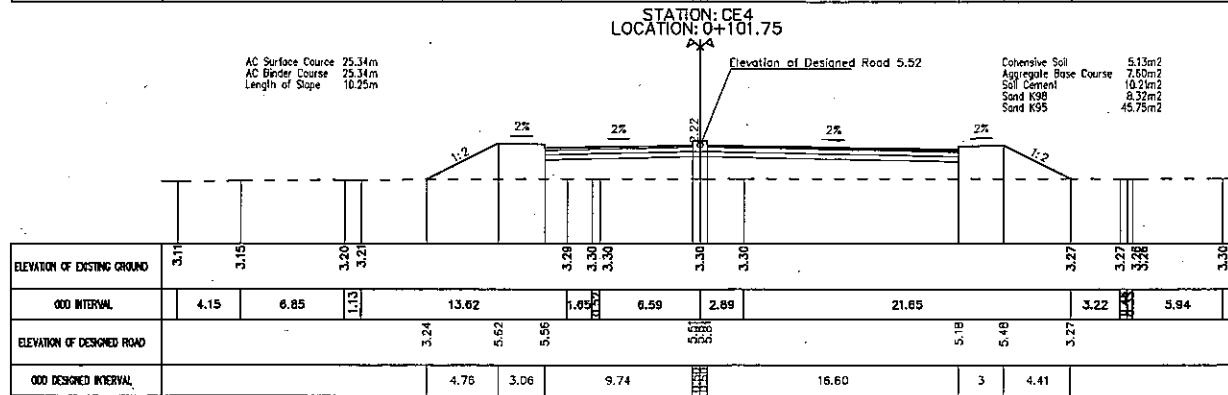
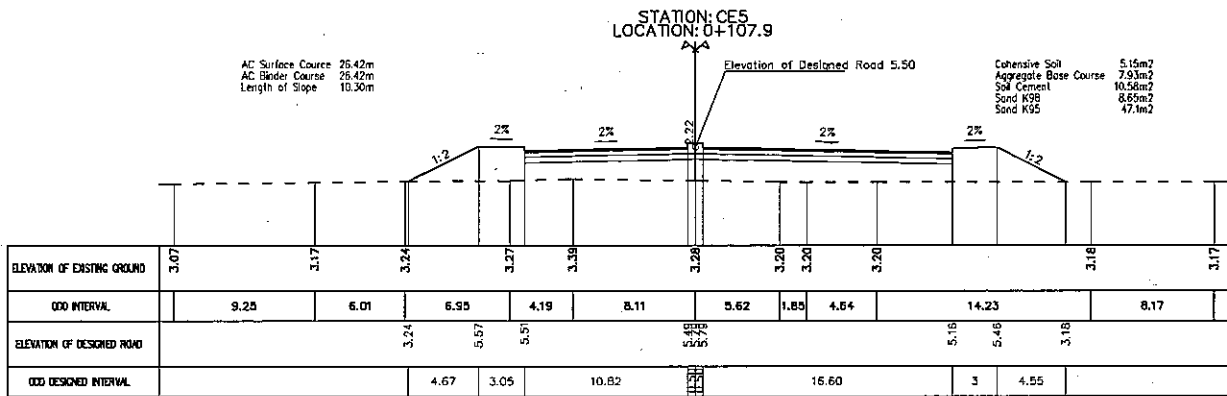
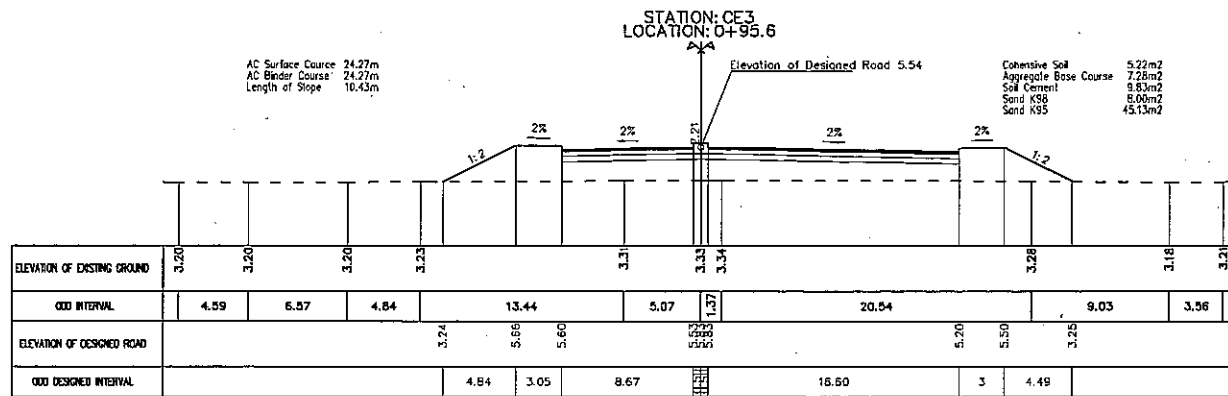
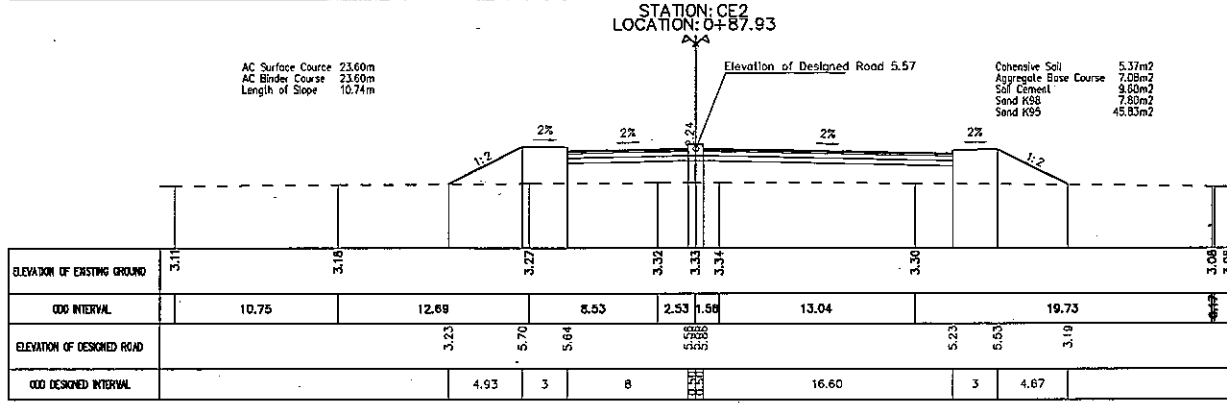
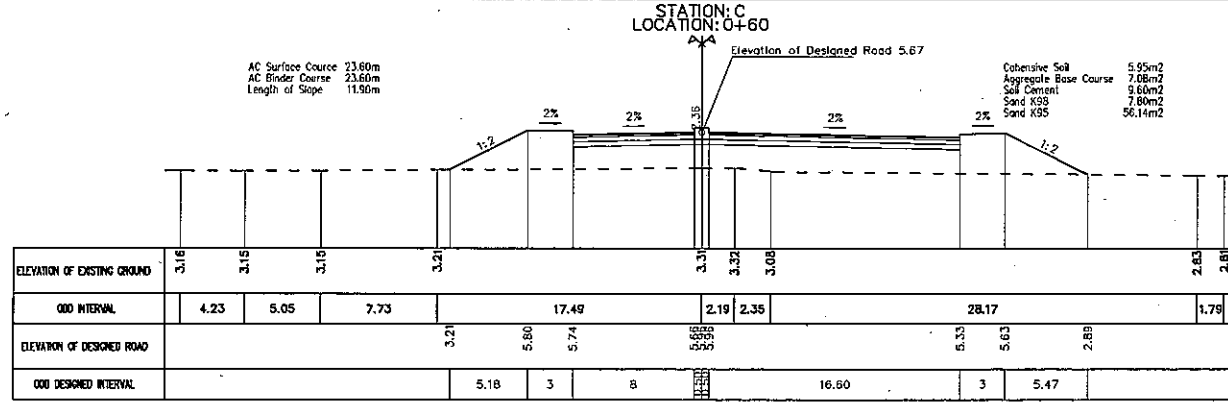
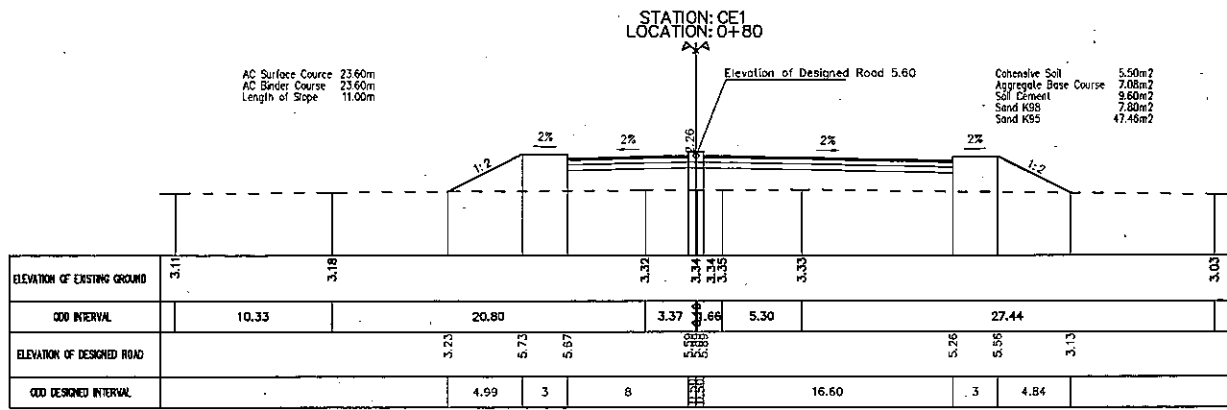
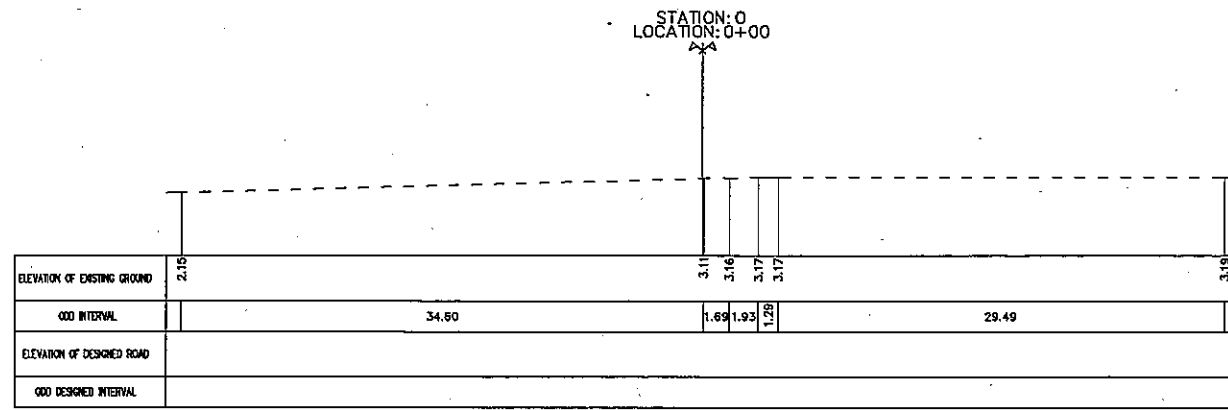
					THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: L. E. MONTANO MICHEL DRAWN BY: LE VIET ANH CHECKED BY: NAGAI N. APPROVED BY: NAGAI K. ISSUE DATE: OCT 10, 2005 SCALE: 1:500		SECTION: ACCESS ROAD SUBSECTION: ROAD CONSTRUCTION - ROAD TITLE OF DRAWING: DETAILED CROSS SECTION (4) DWG NO.: PAC2-TV-ACR-012		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									



NOTE:

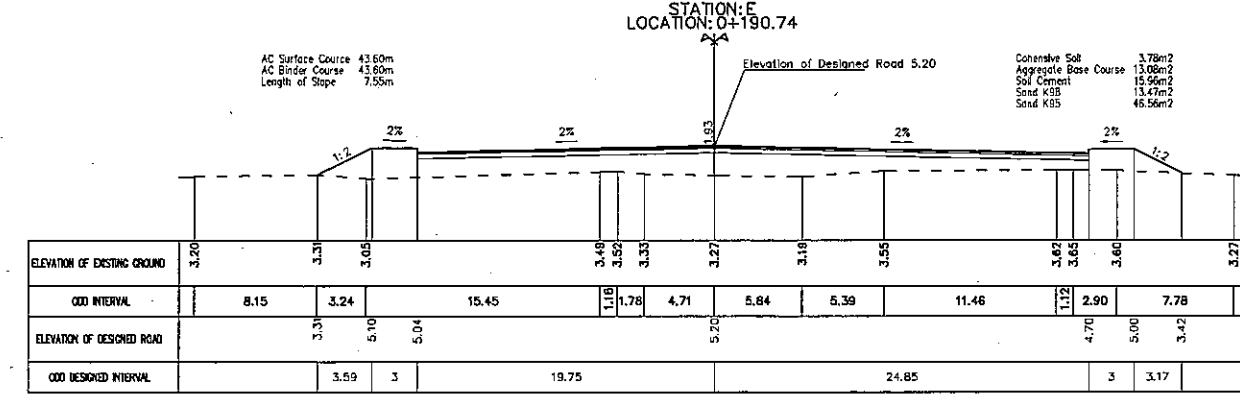
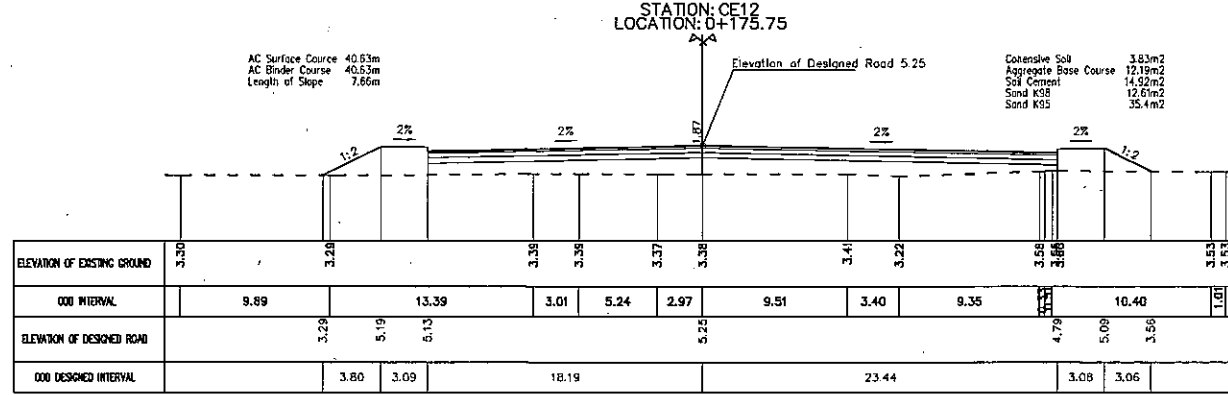
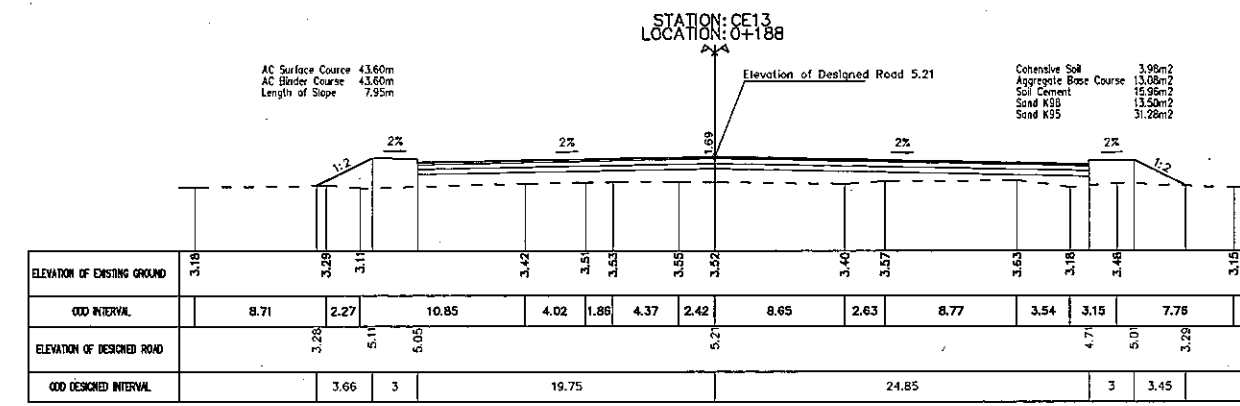
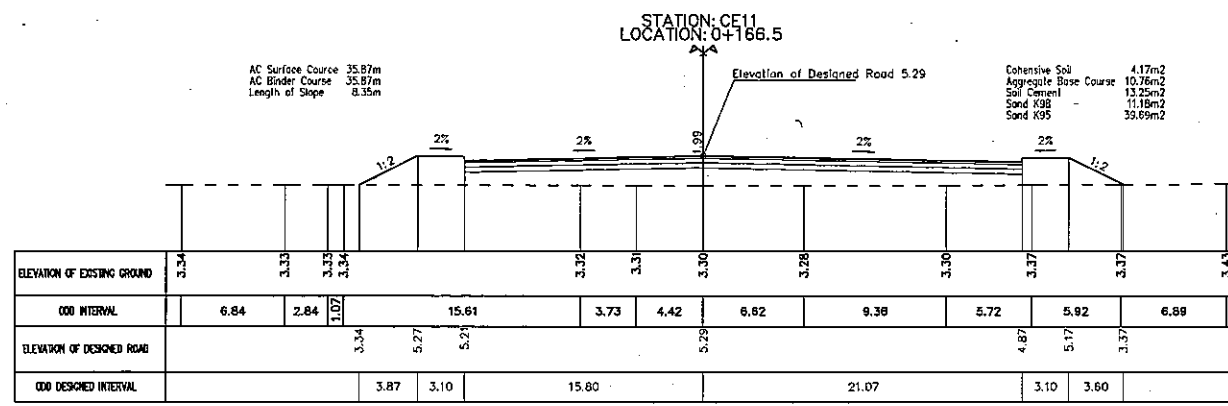
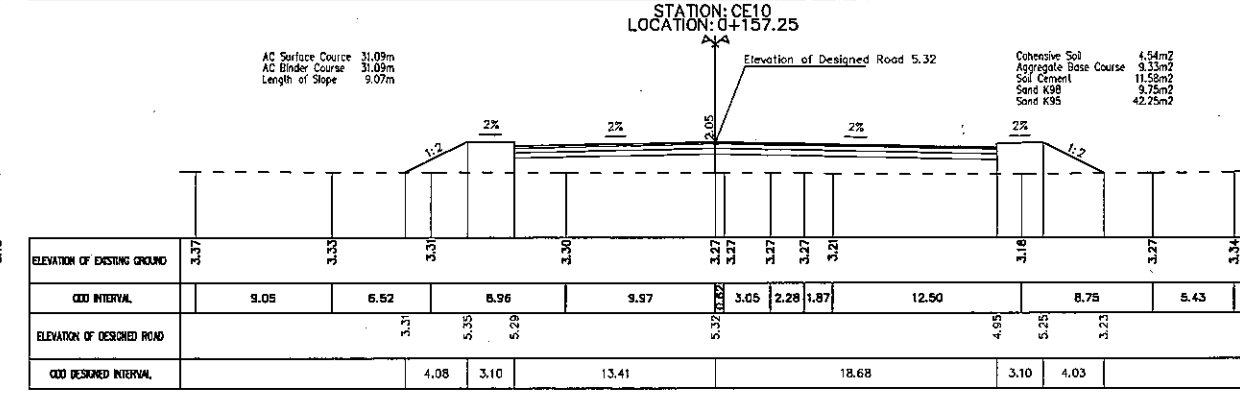
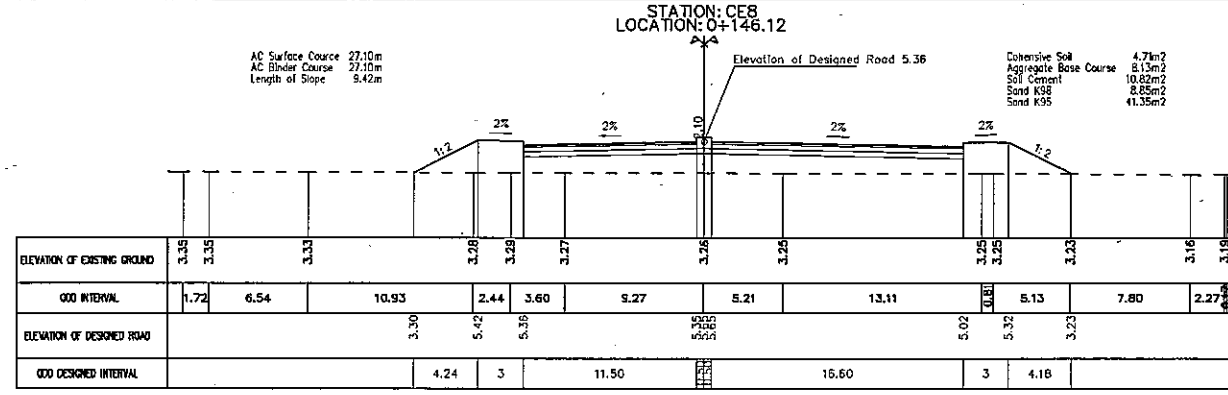
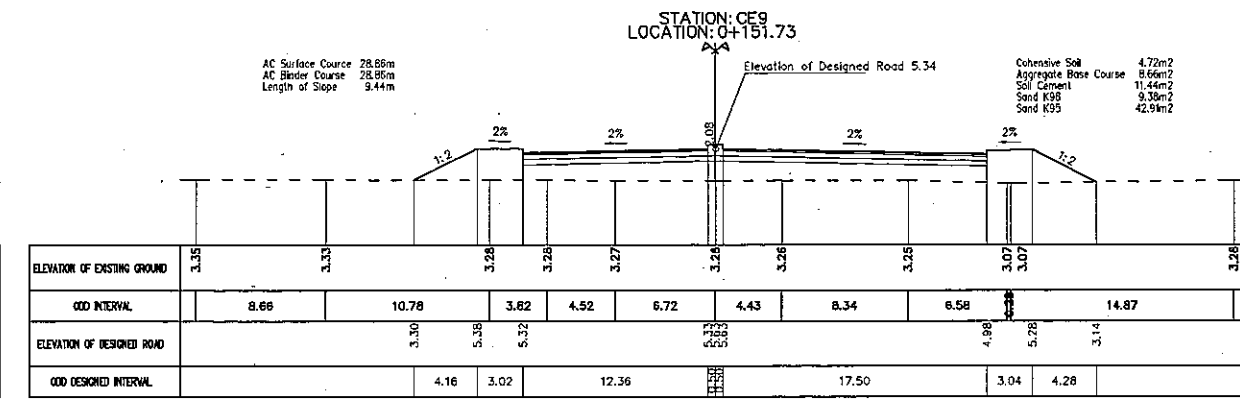
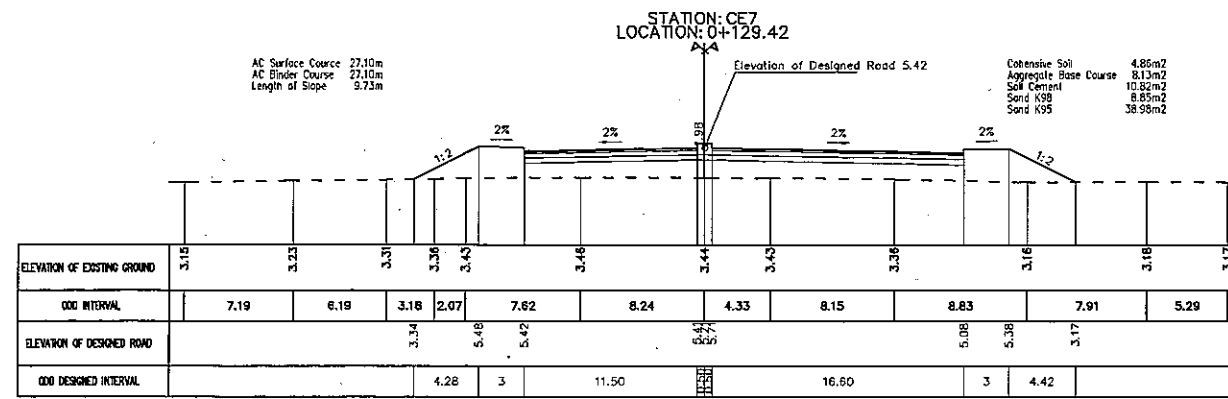
1. THE DEPTH OF UNSUITABLE MATERIALS REMOVAL IS 60CM AND IT SHALL BE SHOWN IN SOIL IMPROVEMENT SECTION.
2. REFERENCE DRAWINGS:

<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 CONSTRUCTION PROJECT</p>			<p>DESIGNED BY: L. E. MONTANO MICHEL DRAWN BY: LE VIET ANH CHECKED BY: NAGAI K. APPROVED BY: NAGAI K. ISSUE DATE: OCT 10, 2005 SCALE: 1:500</p>		<p>SECTION: ACCESS ROAD SUB-SECTION: ROAD CONSTRUCTION - ROAD TITLE OF DRAWING: DETAILED CROSS SECTION (5) DWG NO: PAC2-TV-ACR-013</p>		REV. NO
REV NO	DATE	DESCRIPTION	BY	APP	<p align="center">PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA</p>							



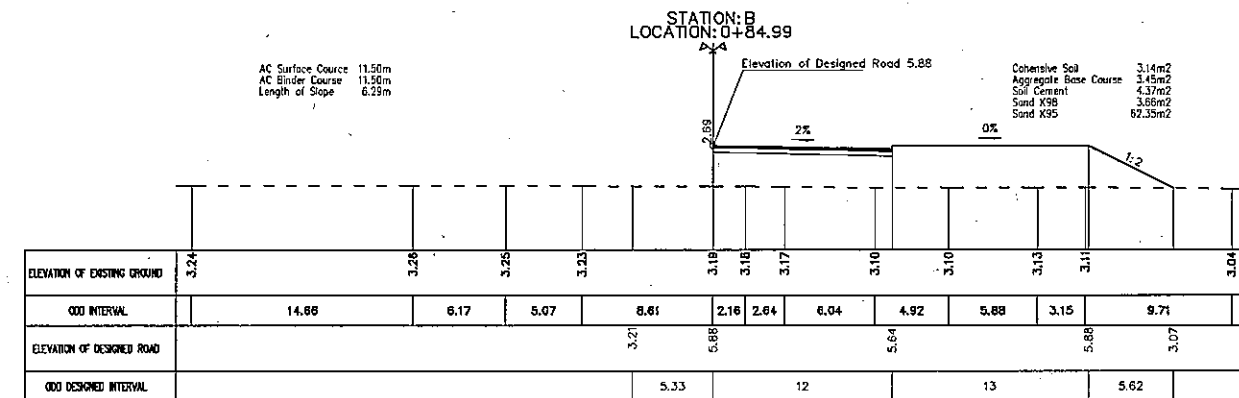
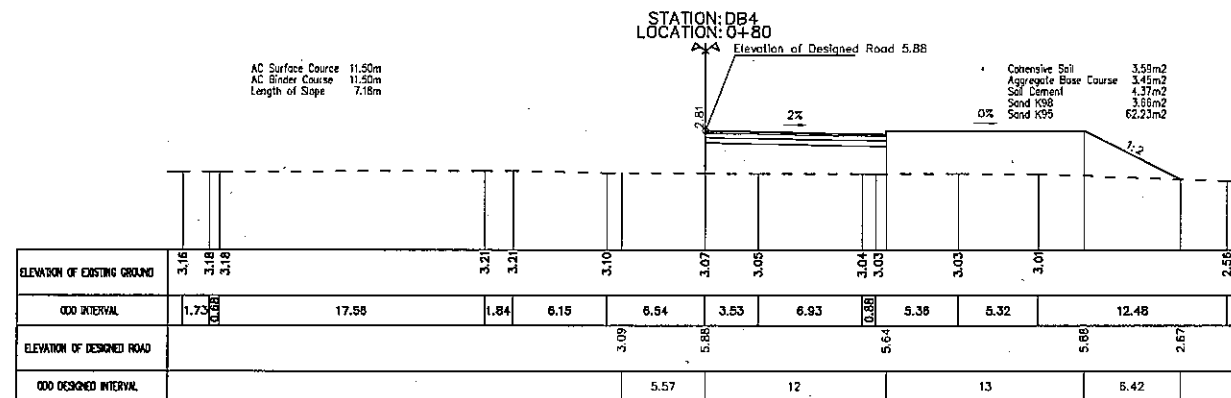
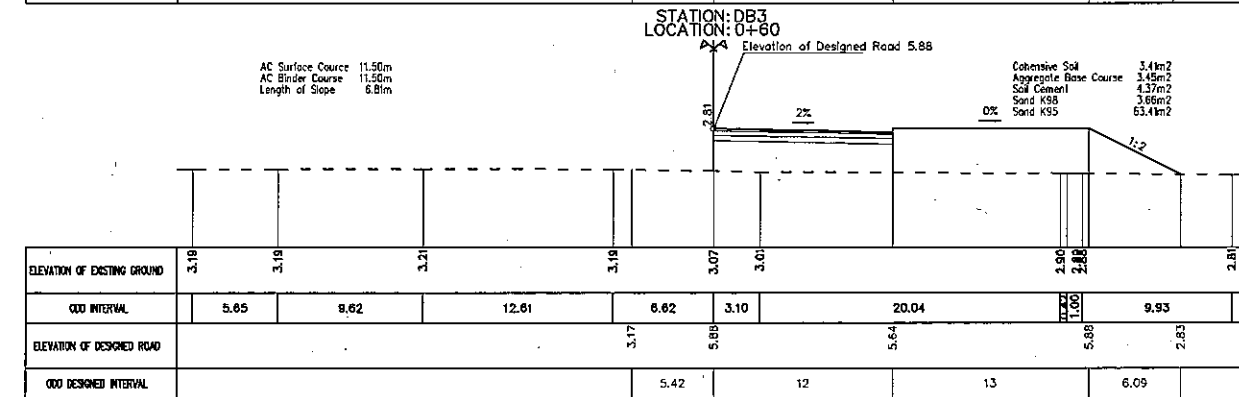
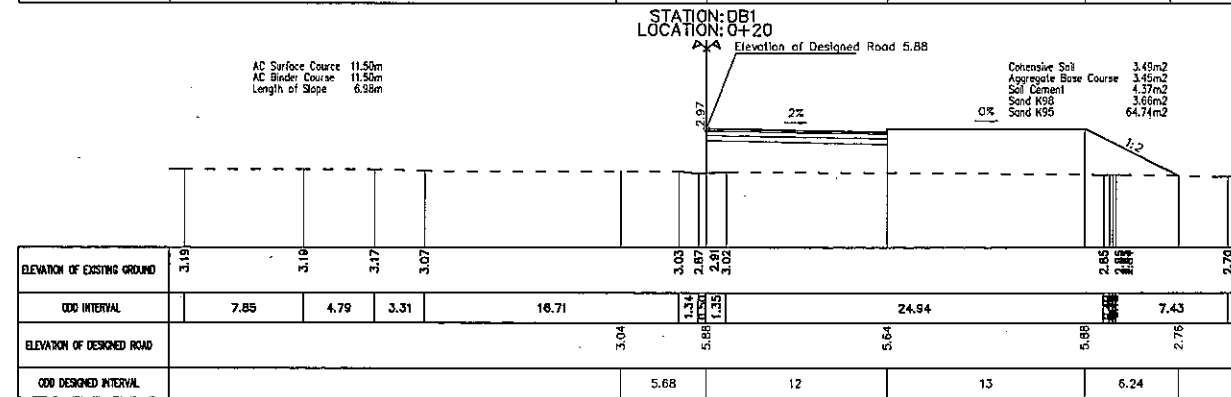
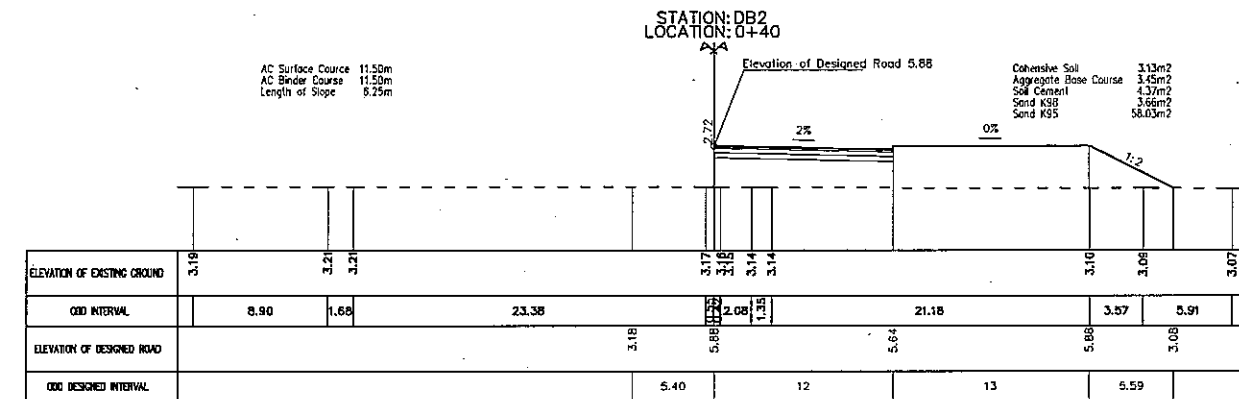
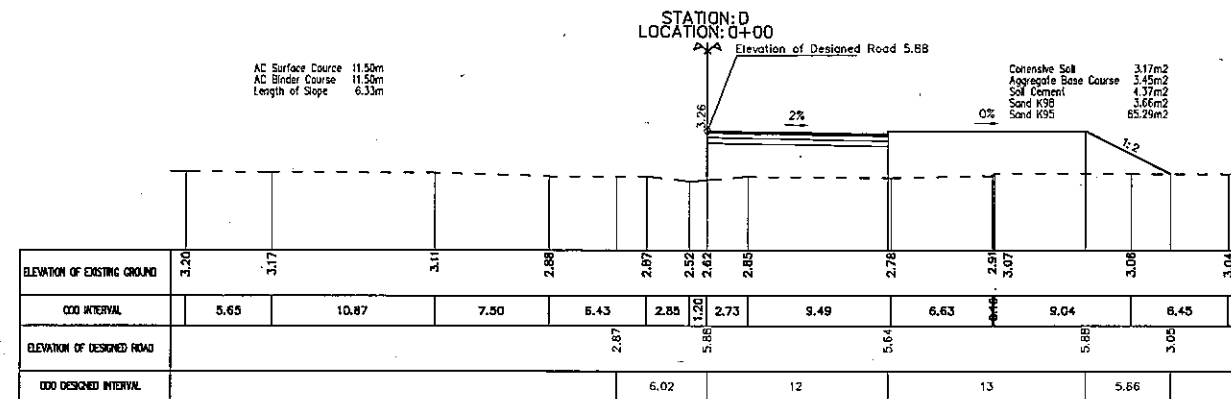
NOTE:
1. THE DEPTH OF UNSUITABLE MATERIALS REMOVAL IS 60CM AND IT SHALL BE SHOWN IN SOIL IMPROVEMENT SECTION.
2. REFERENCE DRAWINGS:

					THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: L. R. MONTAUDO MICHEL DRAWN BY: LE VIET ANH CHECKED BY: NAGAI N.		SECTION: ACCESS ROAD SUB-SECTION: ROAD CONSTRUCTION - ROAD TITLE OF DRAWING: DETAILED CROSS SECTION (6)	
					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		APPROVED BY: NAGAI K. ISSUE DATE: OCT 10, 2005 SCALE: 1:500		DWG NO: PAC2-TV-ACR-014 REV. NO	
REV NO	DATE	DESCRIPTION	BY	APP								



NOTE:
1. THE DEPTH OF UNSUITABLE MATERIALS REMOVAL IS 60CM AND IT SHALL BE SHOWN IN SOIL IMPROVEMENT SECTION.
2. REFERENCE DRAWINGS:

THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85					CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT			DESIGNED BY: J. E. MONTANO MICHEL		SECTION: ACCESS ROAD	
					PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA			DRAWN BY: LE VIET ANH		SUB-SECTION: ROAD CONSTRUCTION - ROAD	
JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)					APPROVED BY: NAGAI K.			CHECKED BY: NAGAO N.		TITLE OF DRAWING: DETAILED CROSS SECTION (7)	
REV NO	DATE	DESCRIPTION	BY	APP				APPROVED BY: NAGAI K.		DWG NO: PAC2-TV-ACR-015	
								ISSUE DATE: OCT 10, 2005		SCALE: 1:500	
										REV. NO	



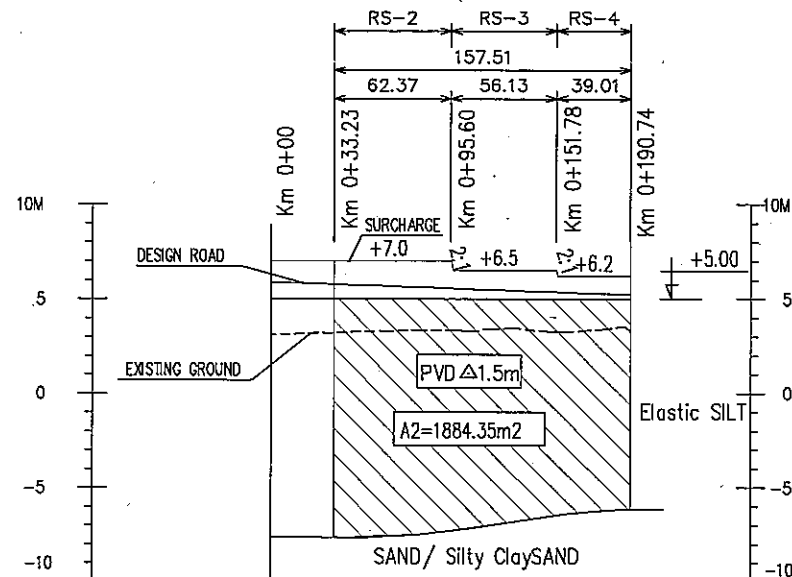
NOTE:

1. THE DEPTH OF UNSUITABLE MATERIALS REMOVAL IS 60CM AND IT SHALL BE SHOWN IN SOIL IMPROVEMENT SECTION.
2. REFERENCE DRAWINGS:

THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85					CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT			DESIGNED BY: J. B. MONTANO MICHEL DRAWN BY: LE VIET ANH CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: OCT 10, 2005 SCALE: 1:500		SECTION: ACCESS ROAD SUB-SECTION: ROAD CONSTRUCTION - ROAD TITLE OF DRAWING: DETAILED CROSS SECTION (10) DWG NO: PAC2-TV-ACR-018		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								

PROFILE FROM KM 0+00 TO KM 0+190.74 (RAMP)

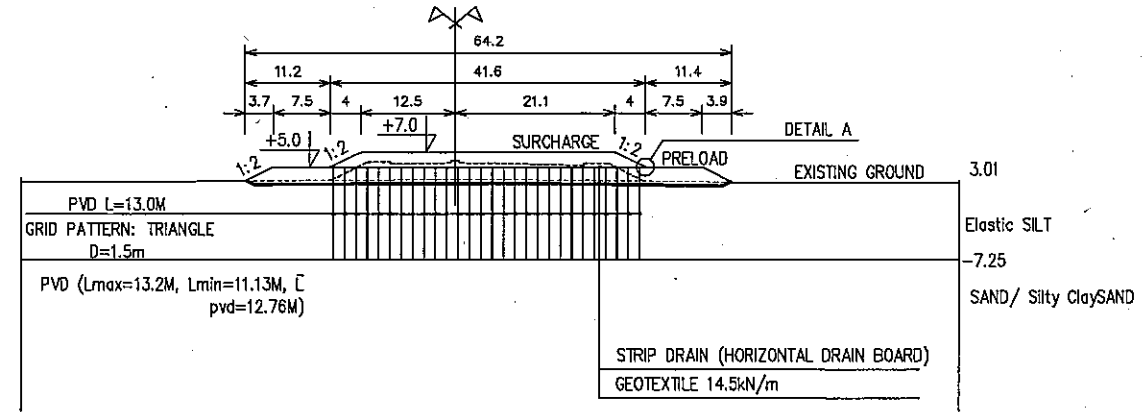
VERTICAL SCALE: 1/400
HORIZONTAL SCALE: 1/4000



BOREHOLE NAME	TV72		TV65	
ELEVATION OF EXISTING GROUND	3.11	3.22	3.31	3.33
GATHERED ADD DISTANCE	Km 0+00	3.23	6.00	8.00
STATION NO.	0	BCS	C	CE1

RS 2 SCALE: 1/1000

STATION: CE1 (Km0+080) (RAMP)

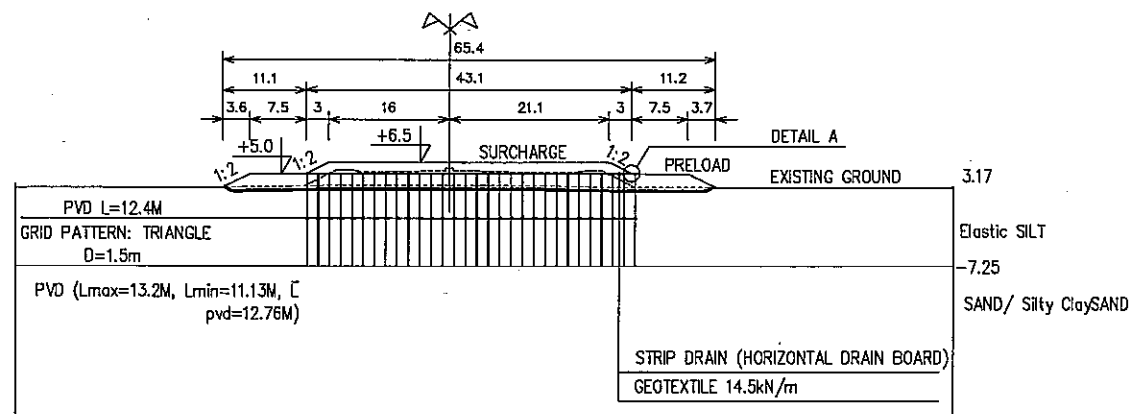


NOTES:

- DIMENSIONS ARE IN [M]
- ELEVATIONS ARE IN [M] - CHART DATUM
- THIS DRAWING IS READ TOGETHER WITH DRAWING NO. PAC1-TV-ACR-021
- AVERAGE HEIGHT OF REMOVAL ORGANIC LAYER IS 0.6M
- ACCEPTABLE MANUFACTURER SB DRAIN (T-200) OR APPROVED EQUAL
- PVD SHALL BE CONNECTED WITH A STRIP DRAIN AT THE EXTENT APPROX 20 CM
- SEPERATION GEOTEXTILE 14.5KN/m = NON-WOVEN NEEDLEPUNCHED GEOTEXTILE INSTALLED ON THE SOFT SOIL LAYER TO SEPERATE IT FROM SAND LAYER

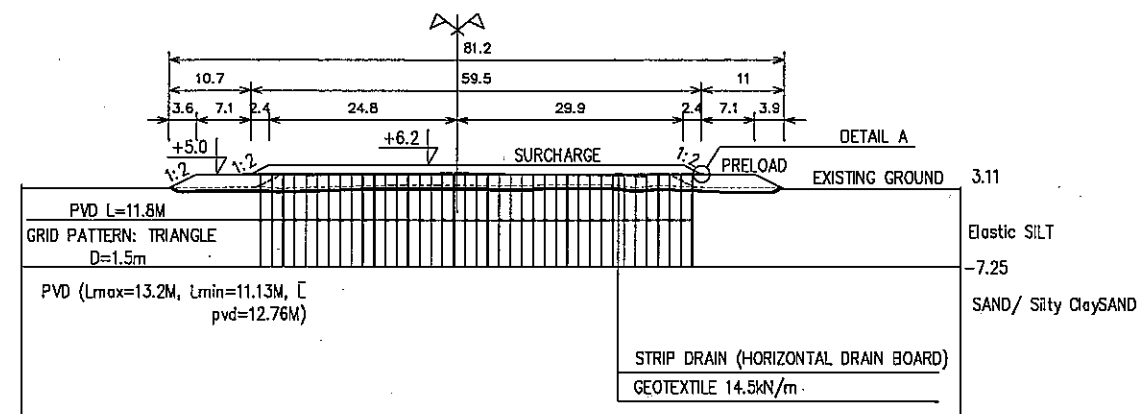
RS 3 SCALE: 1/1000

STATION: CE7 (Km0+129.42) (RAMP)



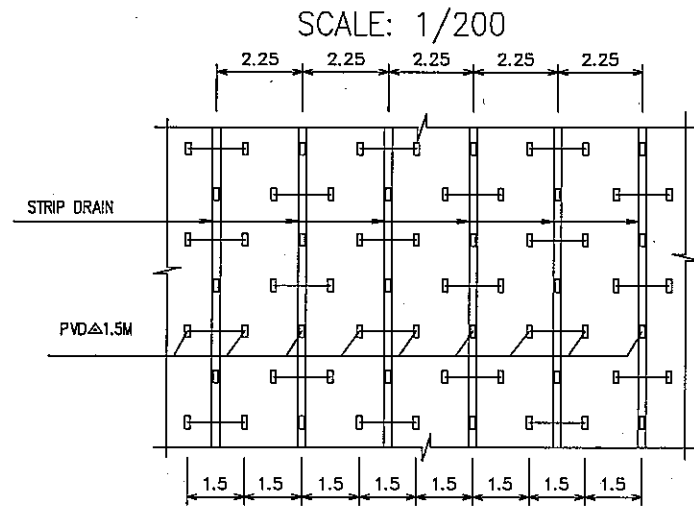
RS 4 SCALE: 1/1000

STATION: CE13 (Km0+188) (RAMP)

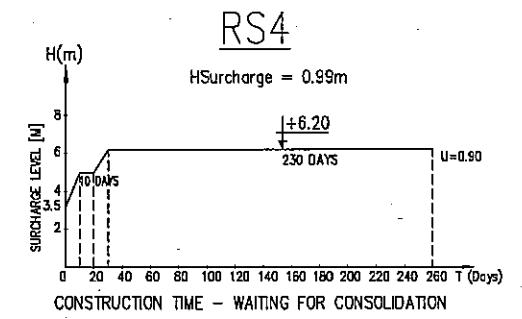
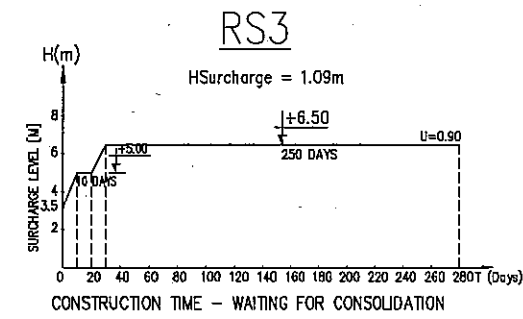
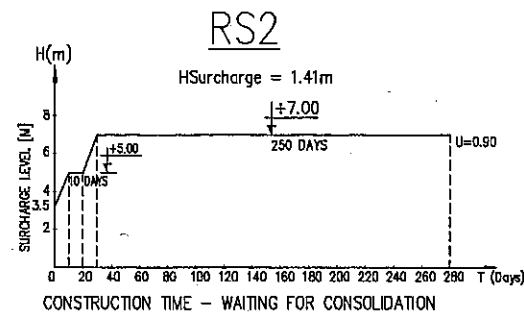


<p>THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>					<p>CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT</p>			<p>DESIGNED BY: J. R. MONTANO MICHEL DRAWN BY: PHAN TRUONG AN CHECKED BY: NAGAIK APPROVED BY: NAGAIK ISSUE DATE: OCT 10, 2005 SCALE: 1/4000, 1/1000, 1/200, 1/4</p>		<p>SECTION: ACCESS ROAD SUB-SECTION: SOIL IMPROVEMENT WORKS TITLE OF DRAWING: GEOTECHNICAL PROFILE AND CROSS SECTION FOR RAMP DWG NO: PAC2-TV-ACR-020 REV. NO</p>	
REV NO	DATE	DESCRIPTION	BY	APP	<p>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>			

DETAIL STRIP DRAIN FOR PVD Δ 1.5M

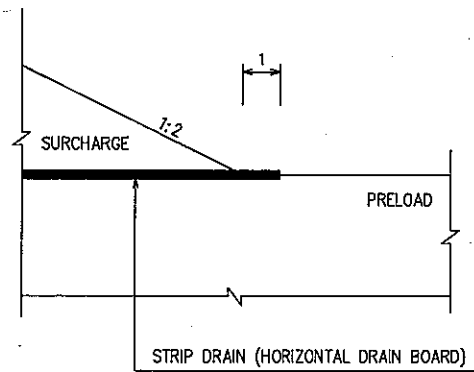


SURCHARGE CHART FOR ROAD ACCORDING TO SECTIONS

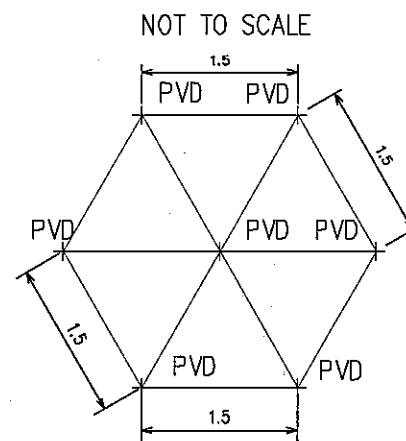


DETAIL A

SCALE: 1/200



ARRANGEMENT FOR PVD Δ D=1.5M

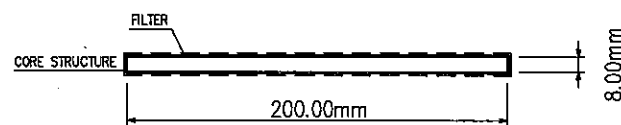


NOTES:

- DIMENSIONS ARE IN [M]
- ELEVATIONS ARE IN [M] - CHART DATUM
- THIS DRAWING IS READ TOGETHER WITH DRAWING NO. PAC1-TV-ACR-020
- AVERAGE HEIGHT OF REMOVAL ORGANIC LAYER IS 0.6M
- ACCEPTABLE MANUFACTURER SB DRAIN (T-200) OR APPROVED EQUAL
- PVD SHALL BE CONNECTED WITH A STRIP DRAIN AT THE EXTENT APPROX 20 CM
- SEPERATION GEOTEXTILE 14.5KN/m = NON-WOVEN
- NEEDLEPUNCHED GEOTEXTILE INSTALLED ON THE SOFT SOIL LAYER TO SEPERATE IT FROM SAND LAYER

TYPICAL SECTION OF STRIP DRAIN

SCALE: 1/4



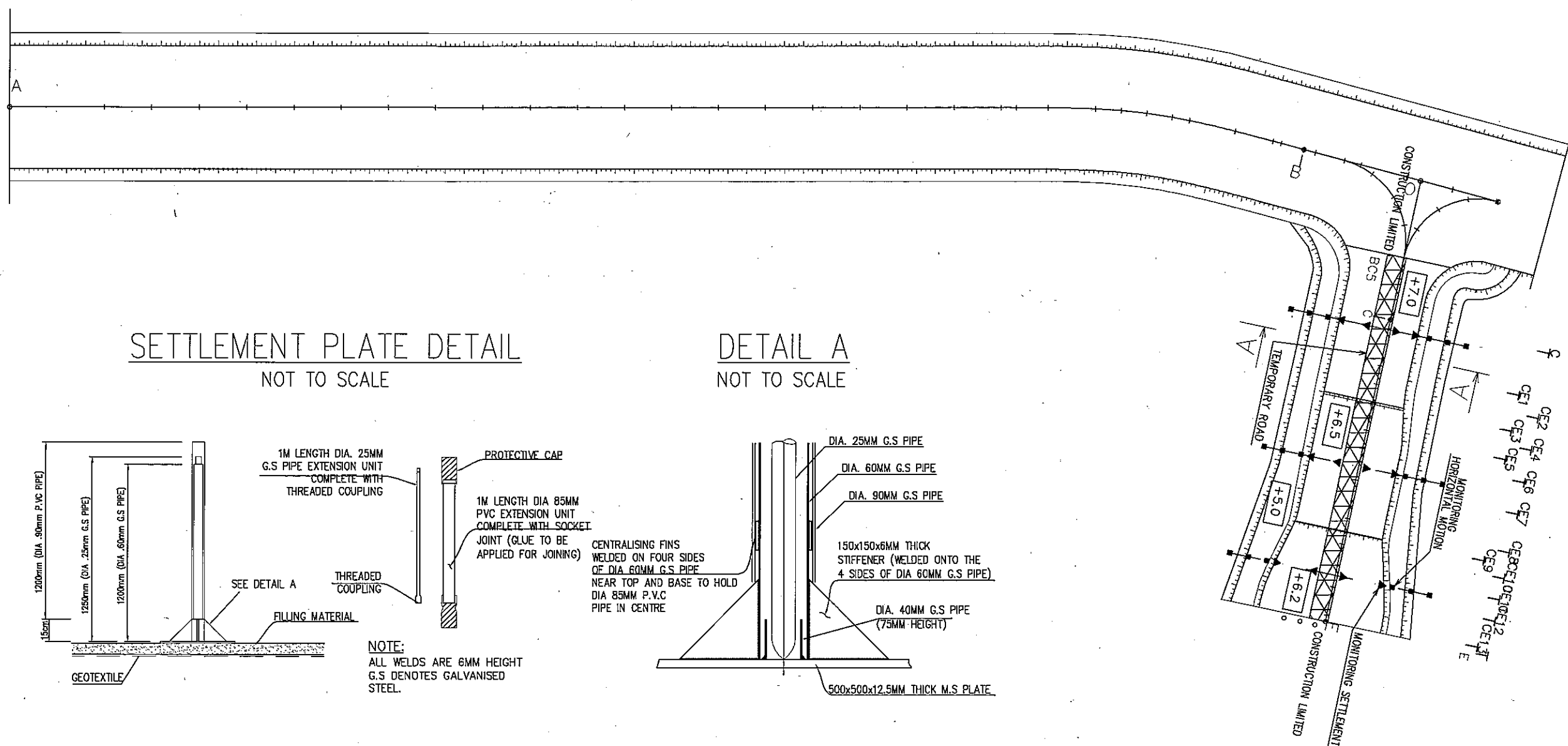
STRIP DRAIN SPECIFICATION:

- CORE STRUCTURE: POLYVINYL CHLORIDE
- FILTER: POLYESTER SPUNBOND
- DISCHARGE CAPACITY: 24M3/DAY

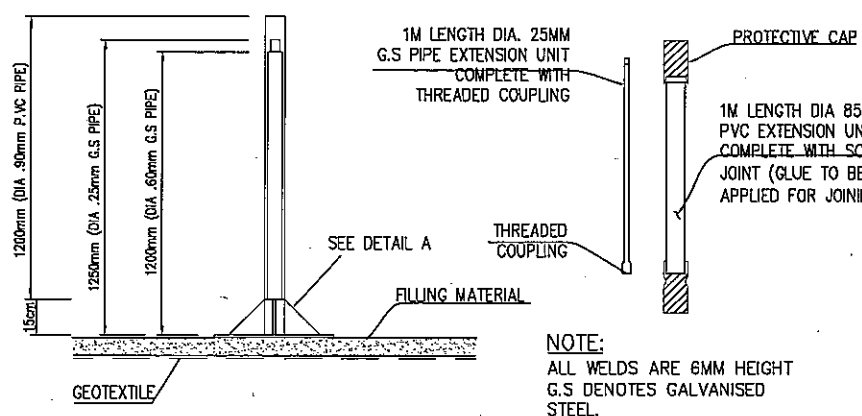
<p>THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</p>					<p>CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT</p> <p>PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA</p>		<p>DESIGNED BY: J. R. MONTANO MICHEL</p> <p>DRAWN BY: PHAN TRUONG AN</p> <p>CHECKED BY: NAGAO H.</p> <p>APPROVED BY: NAGAI K.</p> <p>ISSUE DATE: OCT 10, 2005</p> <p>SCALE: 1/4000, 1/1000</p>		<p>SECTION: ACCESS ROAD</p> <p>SUB-SECTION: SOIL IMPROVEMENT WORKS</p> <p>TITLE OF DRAWING: GEOTECHNICAL PROFILE AND CROSS SECTION FOR RAMP</p> <p>DWG NO: PAC2-TV-ACR-021</p> <p>REV. NO</p>	
REV NO	DATE	DESCRIPTION	BY	APP						

PLAN OF MONITORING

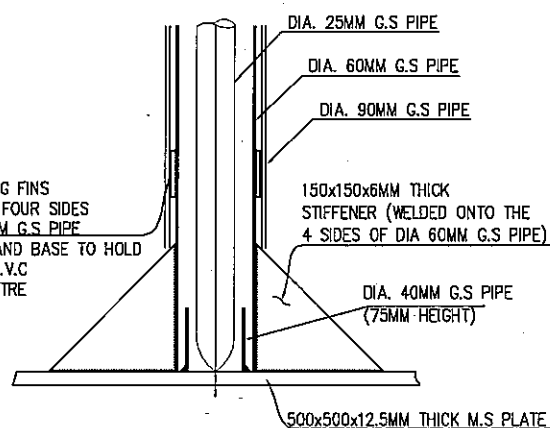
SCALE: 1/2000



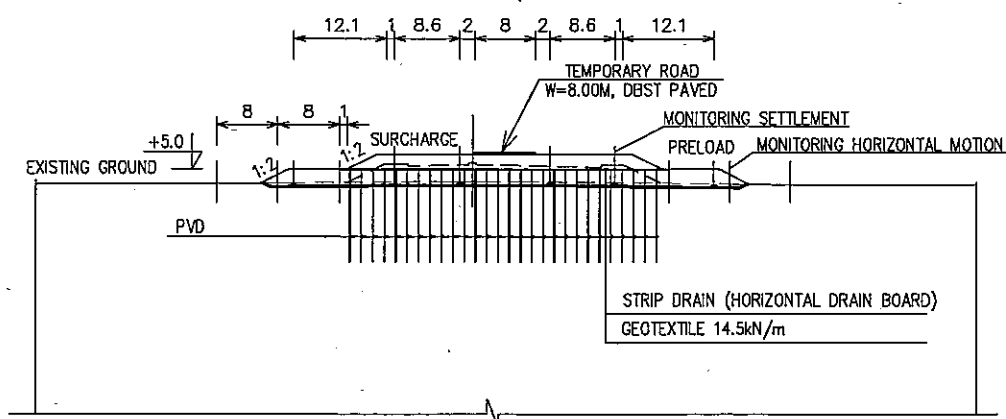
SETTLEMENT PLATE DETAIL
NOT TO SCALE



DETAIL A
NOT TO SCALE



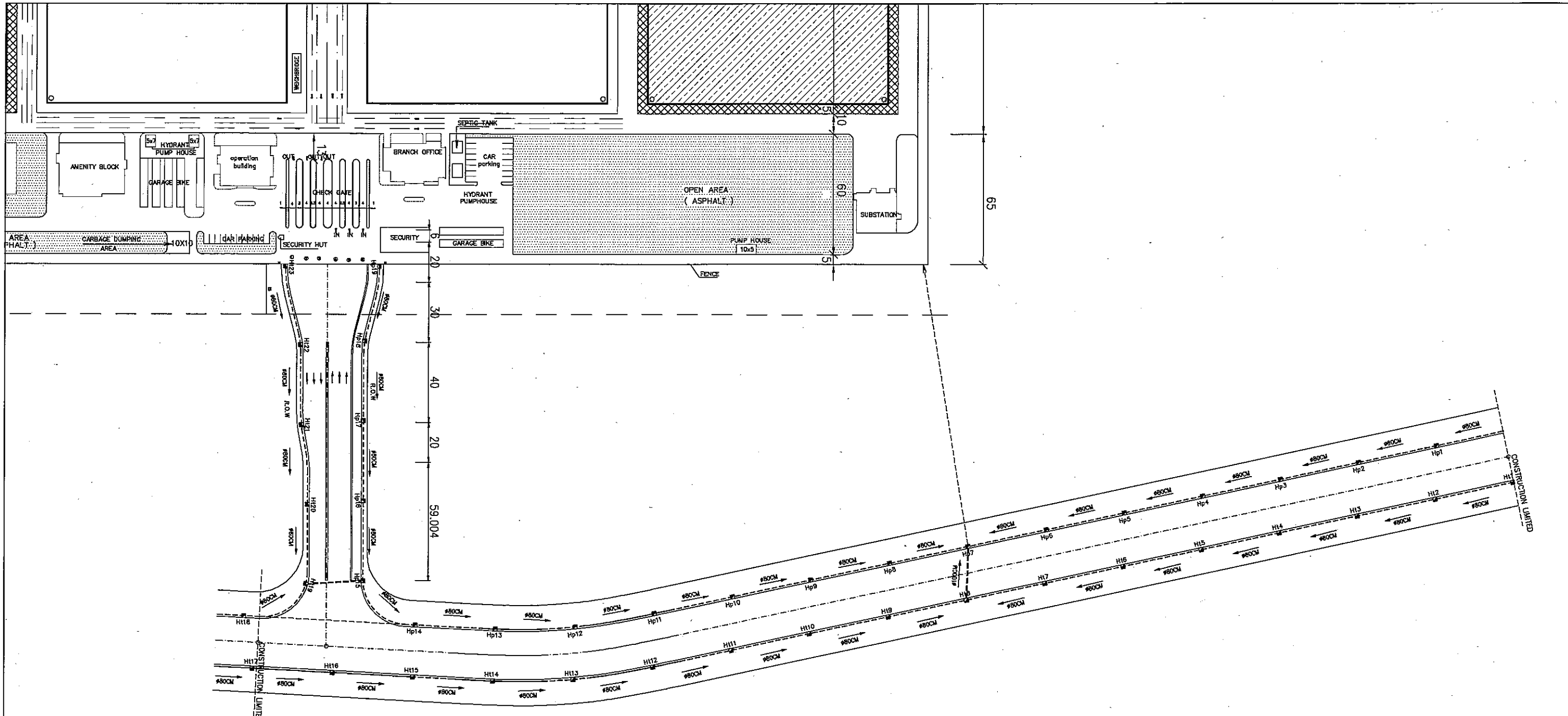
SECTION A-A
SCALE: 1/1000



NOTES:

- DIMENSIONS ARE IN [M], ELEVATIONS ARE IN [M] - CHART DATUM

THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85					CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: J. R. MONTANO MICHEL DRAWN BY: PHAN TRUONG AN CHECKED BY: NAGAO N. APPROVED BY: NAGAIC ISSUE DATE: OCT 10, 2005 SCALE: 1/2000, 1/1000		SECTION: ACCESS ROAD SUB-SECTION: SOIL IMPROVEMENT WORKS TITLE OF DRAWING: PLAN OF MONITORING	
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-ACR-022		REV. NO	
REV NO	DATE	DESCRIPTION	BY	APP						

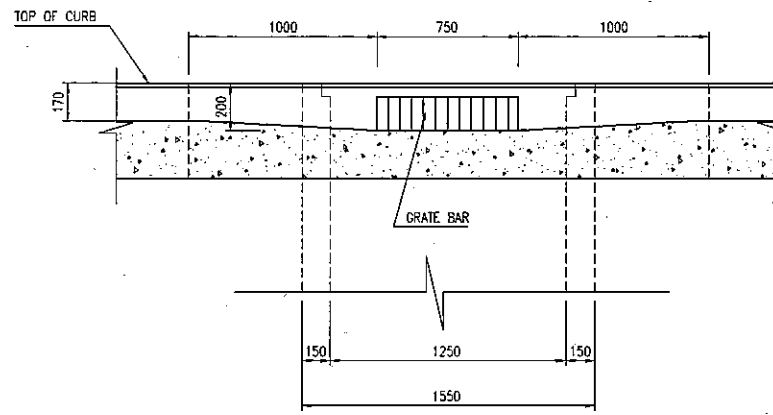
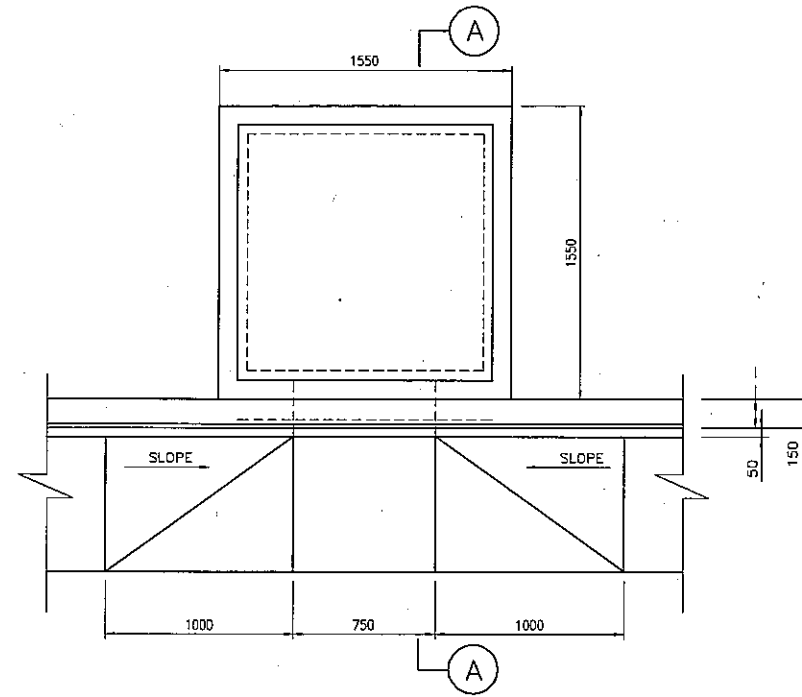


NOTES:

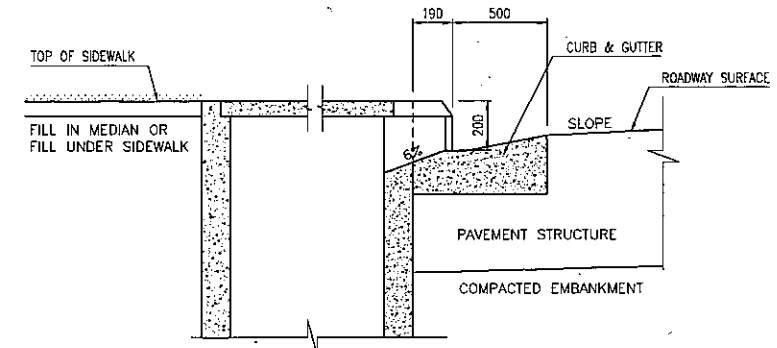
- COORDINATES ARE SYSTEM HN72
- ELEVATION IS CDL
- POSSIBLE VARIATIONS OF R.O.W MIGHT APPEAR DURING DETAIL DESIGN
- R.O.W LINES ARE PRELIMINARY, FINAL LINES WILL BE DEFINED AFTER DETAIL DESIGN IS COMPLETE.

————— ROAD CENTERLINE (TIM TUYEÁN)
 - - - - - BOUNDARY OF LAND ACQUISITION (NỒI ĐƯỜNG BIỆN GPMB)

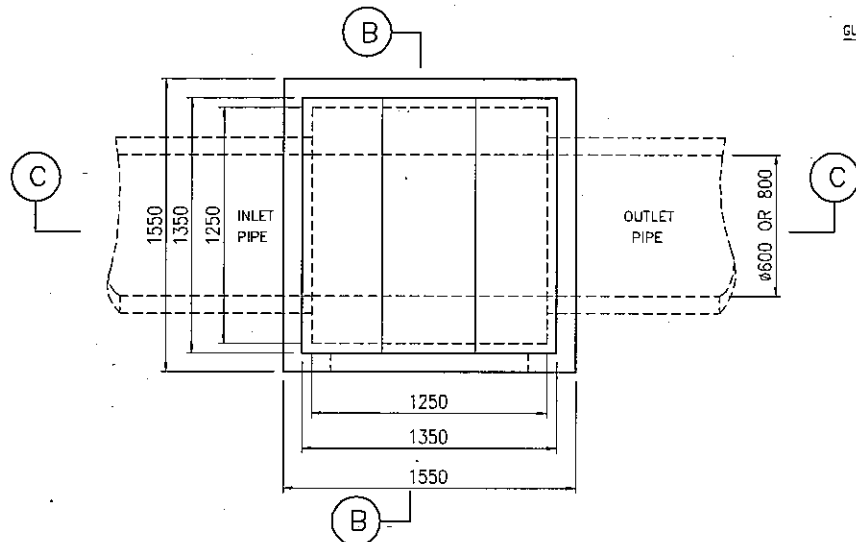
<p align="center">THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>					<p align="center">CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT</p>		<p>DESIGNED BY: J. R. MONTANO MICHEL DRAWN BY: TRUONG HOA BINH CHECKED BY: NAGAO N. APPROVED BY: NAGAO N. ISSUE DATE: OCT 10, 2005 SCALE: 1/2000</p>		<p>SECTION: ACCESS ROAD SUB-SECTION: DRAINAGE SYSTEM TITLE OF DRAWING: GENERAL PLAN OF LONGITUDINAL CULVERT</p>	
<p align="center">JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL CONSTRUCTION SYSTEM (IDS)</p>					<p align="center">PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA</p>		<p>DWG NO: PAC2-TV-ACR-023</p>		<p>REV. NO</p>	
REV NO	DATE	DESCRIPTION	BY	APP						



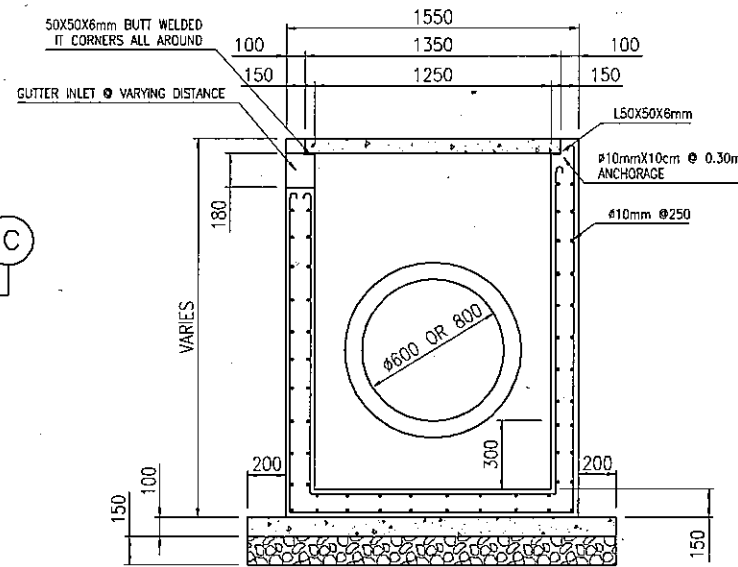
FRONT VIEW OF GRATING
SCALE : 1:40



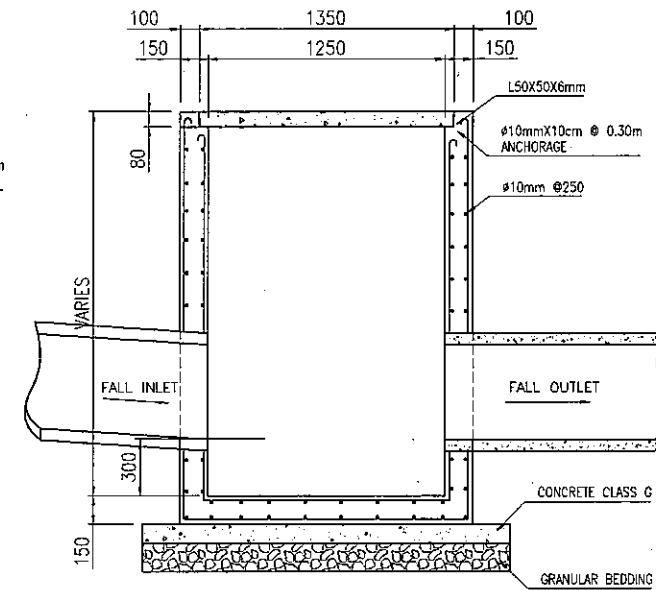
SECTION A-A
NOT TO SCALE



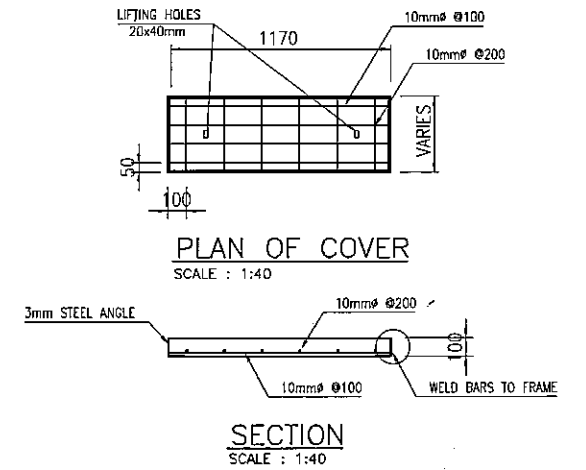
PLAN OF CATCH BASIN TYPE CB1



SECTION B-B
SCALE : 1:40



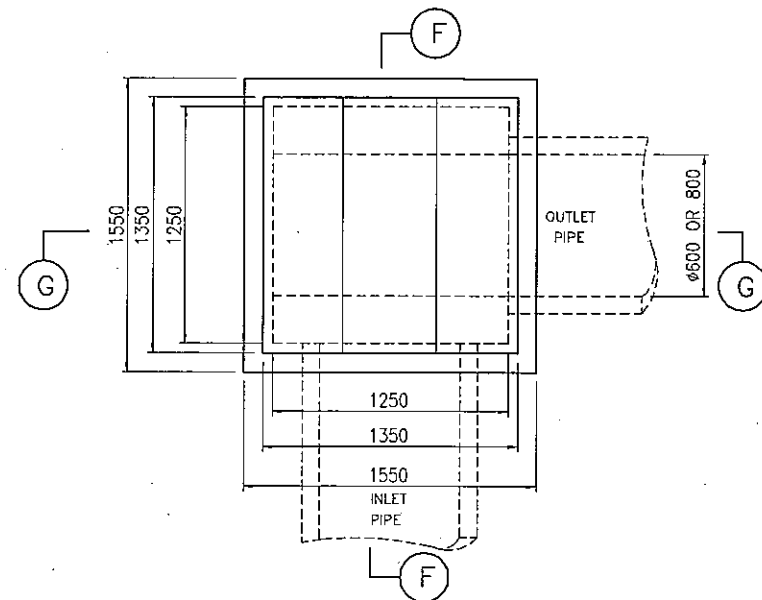
SECTION C-C
SCALE : 1:40



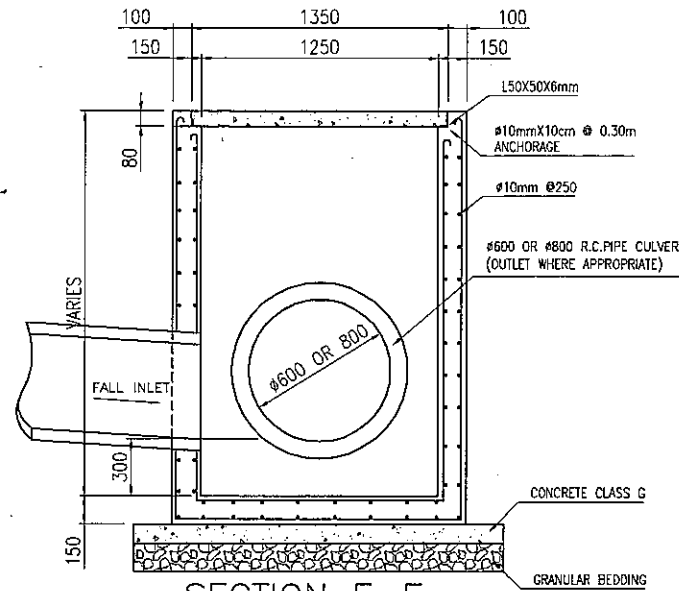
PLAN OF COVER
SCALE : 1:40

SECTION
SCALE : 1:40

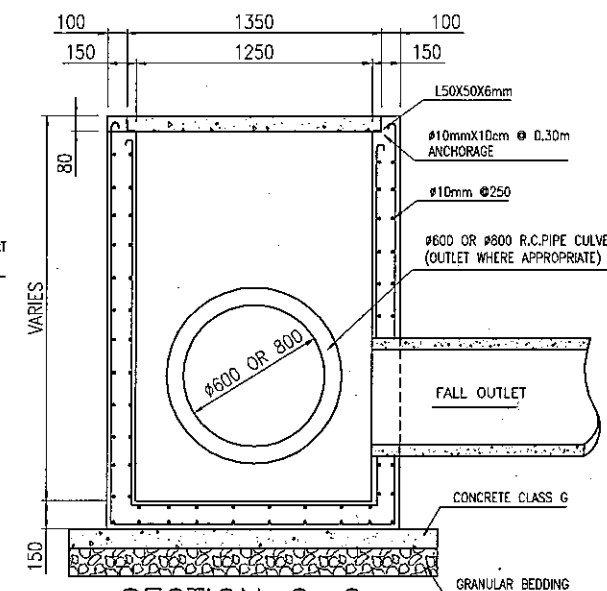
					THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: J. R. MONTANO MICHEL DRAWN BY: NGUYEN LAM GIANG CHECKED BY: NAGAO N. APPROVED BY: NAGAI R. ISSUE DATE: OCT 10, 2005		SECTION: ACCESS ROAD SUB-SECTION: DRAINAGE SYSTEM TITLE OF DRAWING: DETAIL OF INLET, OUTLET(1)	
					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-ACR-024		REV. NO	
REV NO	DATE	DESCRIPTION	BY	APP								



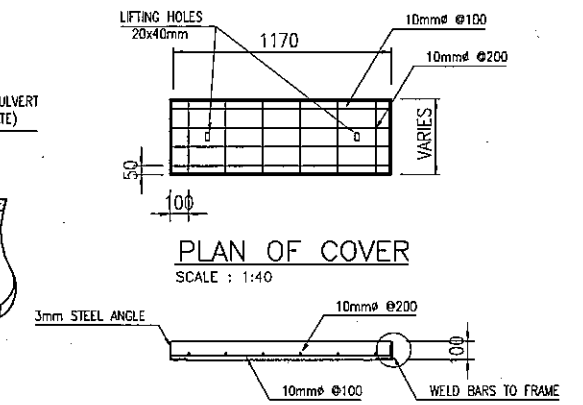
PLAN OF CATCH BASIN TYPE CB3
SCALE : 1:40



SECTION F-F
SCALE : 1:40



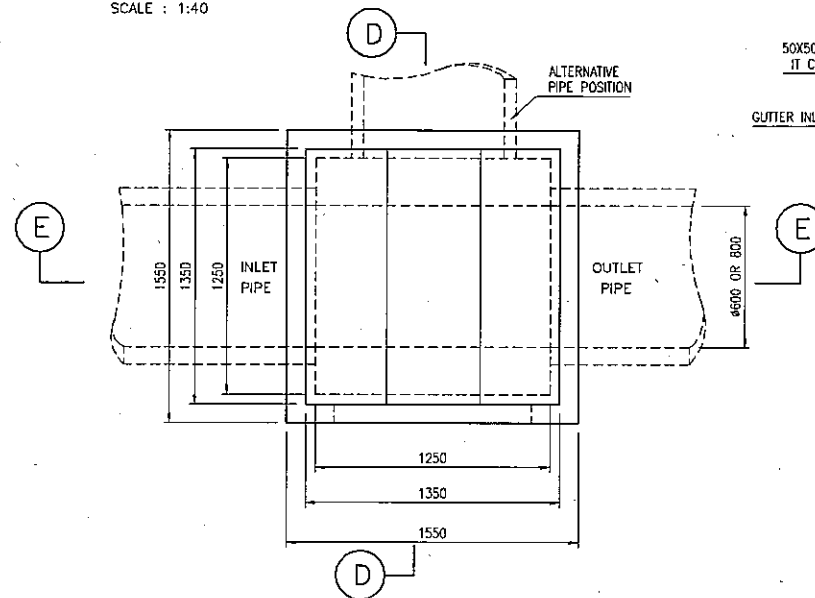
SECTION G-G
SCALE : 1:40



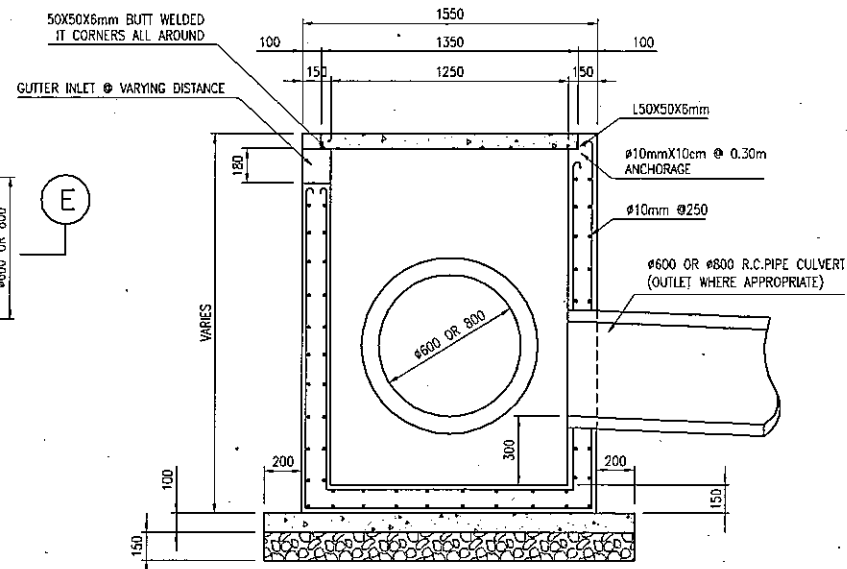
PLAN OF COVER
SCALE : 1:40

SECTION
SCALE : 1:40

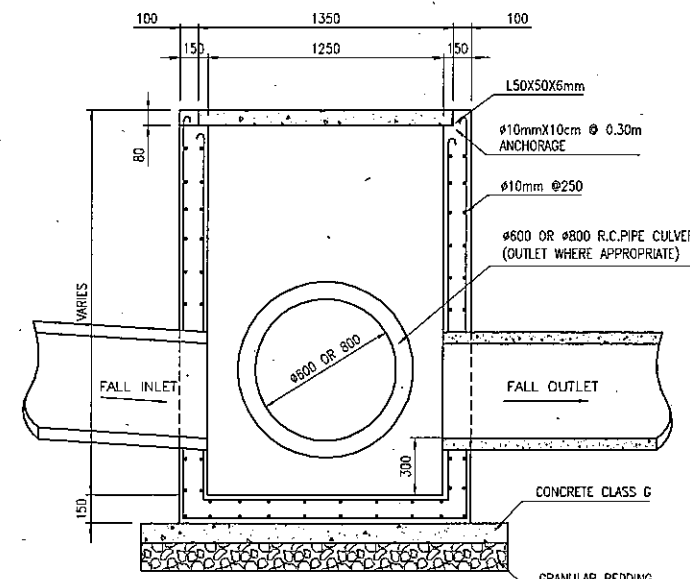
SCALE : 1:40



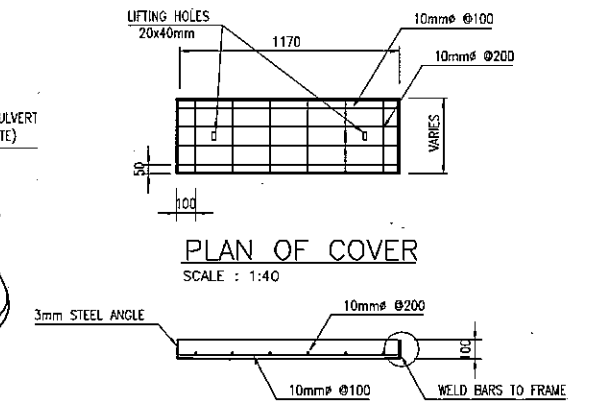
PLAN OF CATCH BASIN TYPE CB2
SCALE : 1:40



SECTION D-D
SCALE : 1:40



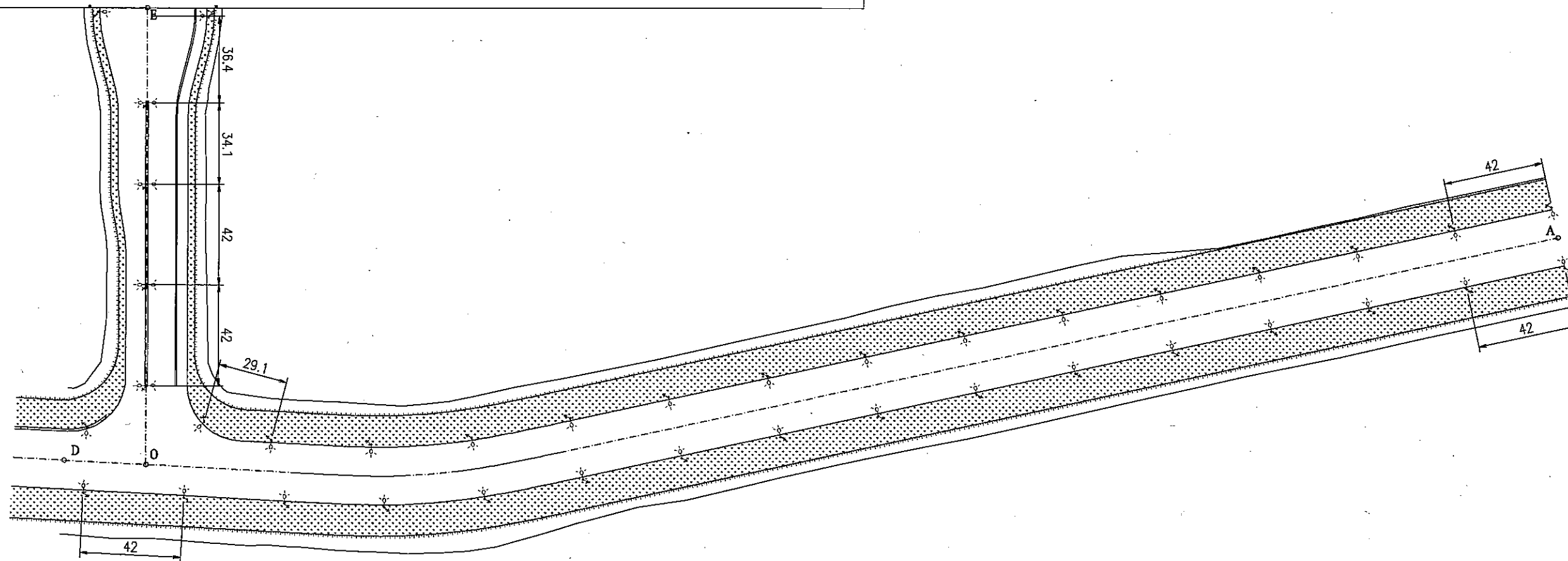
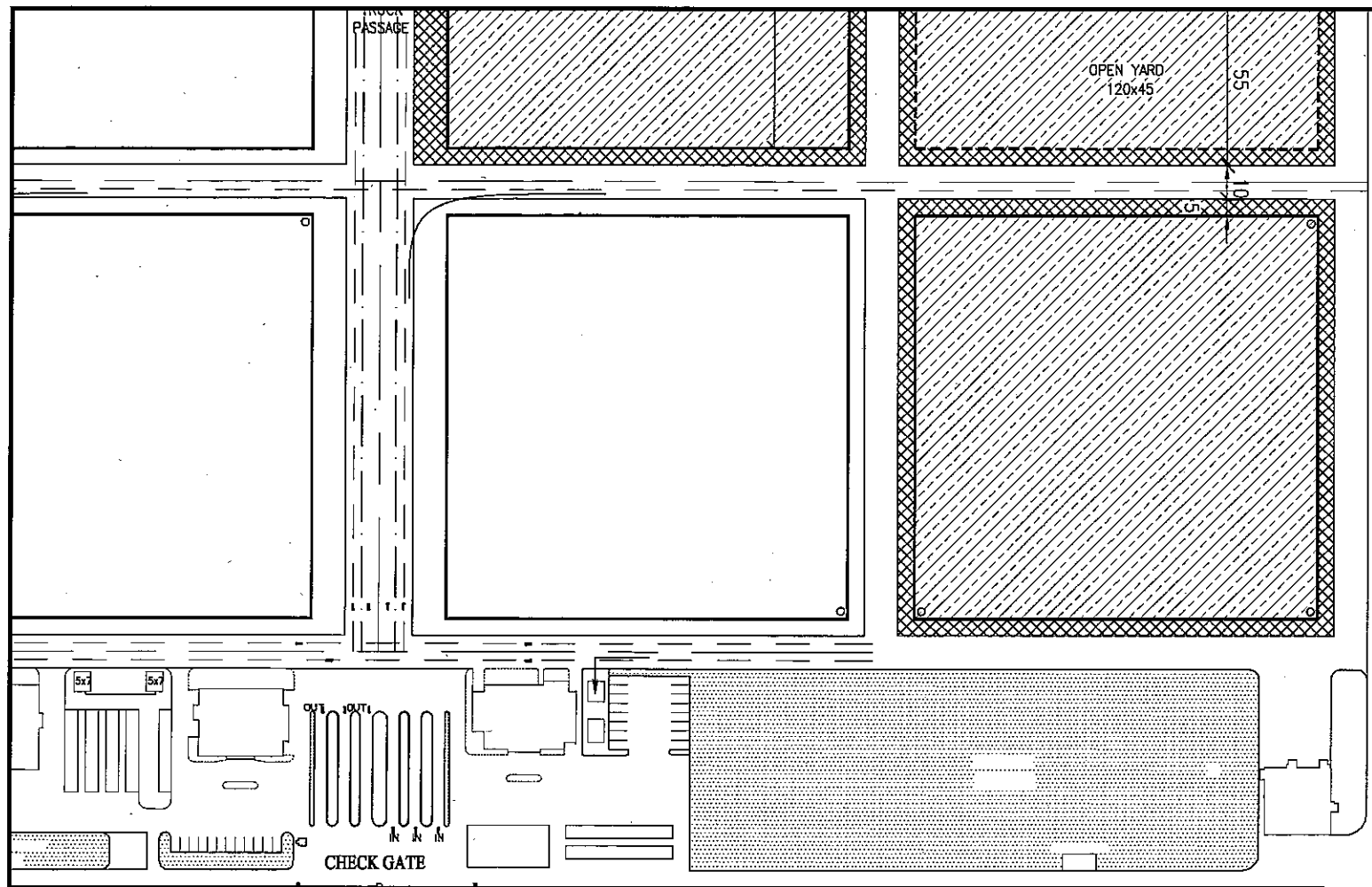
SECTION E-E
SCALE : 1:40



PLAN OF COVER
SCALE : 1:40

SECTION
SCALE : 1:40

		THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 95		CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: J. R. MONTANO MICHEL DRAWN BY: NGUYEN LAM GIANG CHECKED BY: NAGAO N. APPROVED BY: NAGAI R. ISSUE DATE: OCT 10, 2005		SECTION: ACCESS ROAD SUB-SECTION: DRAINAGE SYSTEM TITLE OF DRAWING: DETAIL OF INLET, OUTLET(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-ACR-025		REV. NO	
REV NO	DATE	DESCRIPTION	BY	APP					



REV NO	DATE	DESCRIPTION	BY	APP

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

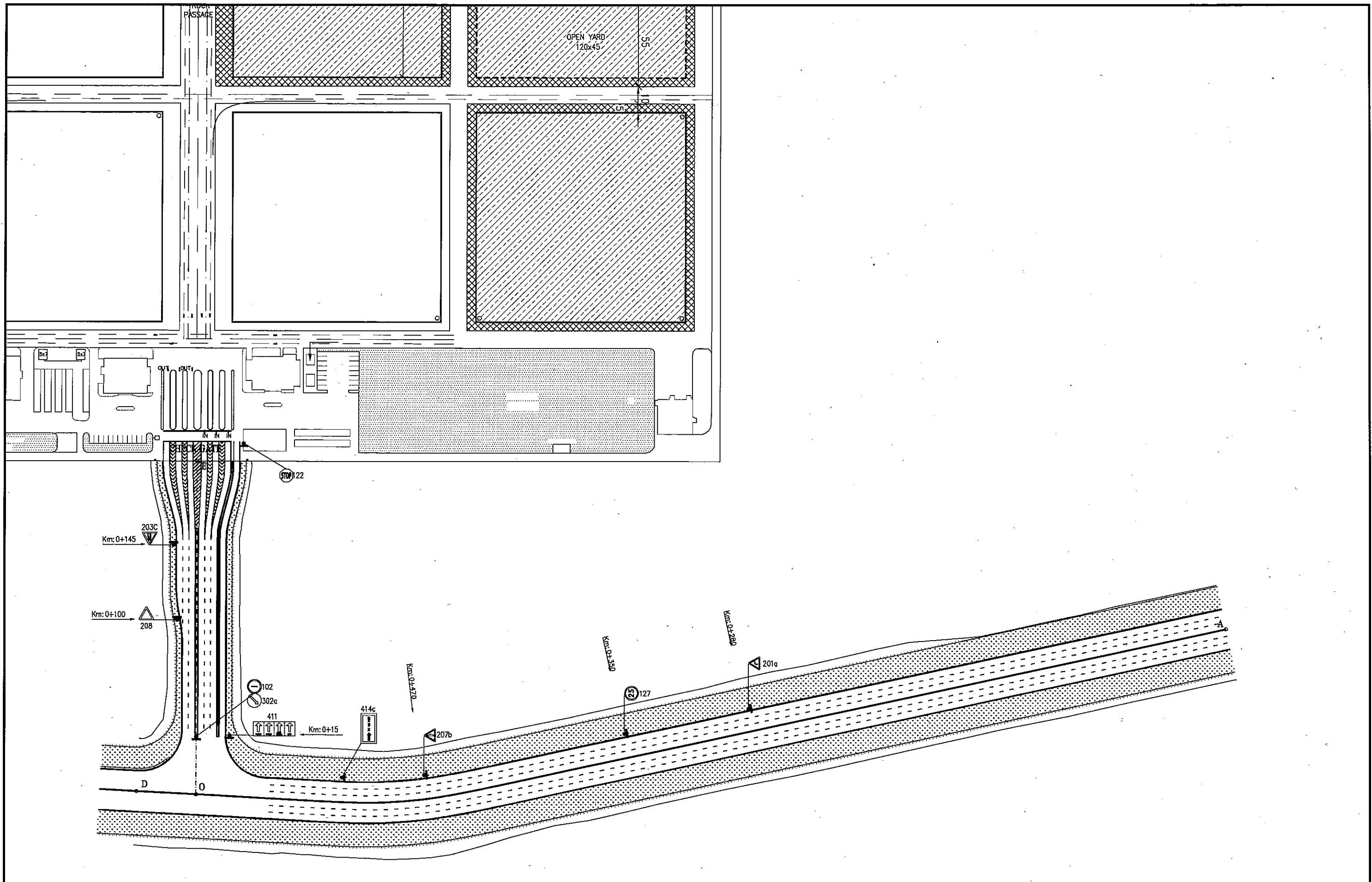
JAPAN INTERNATIONAL COOPERATION AGENCY
 ASSIGNED TO:
 JAPAN PORT CONSULTANT (JPC)
 PACIFIC CONSULTANTS INTERNATIONAL (PCI)
 INTERNATIONAL DEVELOPMENT SYSTEM (IDS)

CAI MEP - THI VAI INTERNATIONAL PORT
 CONSTRUCTION PROJECT

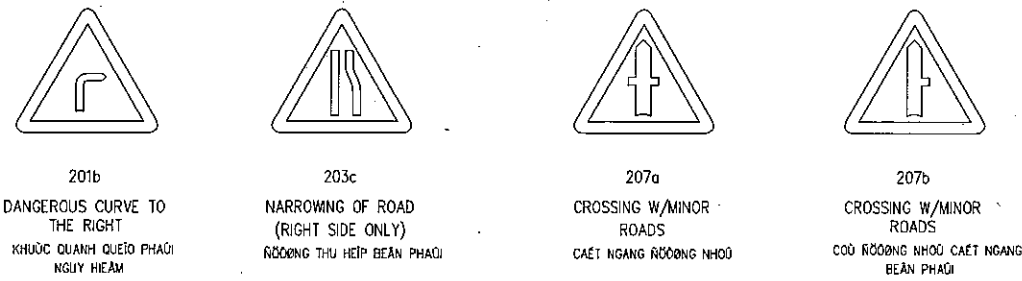
PACKAGE 2
 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR
 THIVAI AREA

DESIGNED BY: J. R. MONTANO MICHEL
 DRAWN BY: TRUONG HOA BINH
 CHECKED BY: NAGAO N.
 APPROVED BY: NAGAI K.
 ISSUE DATE: OCT 10, 2005
 SCALE: 1:2000

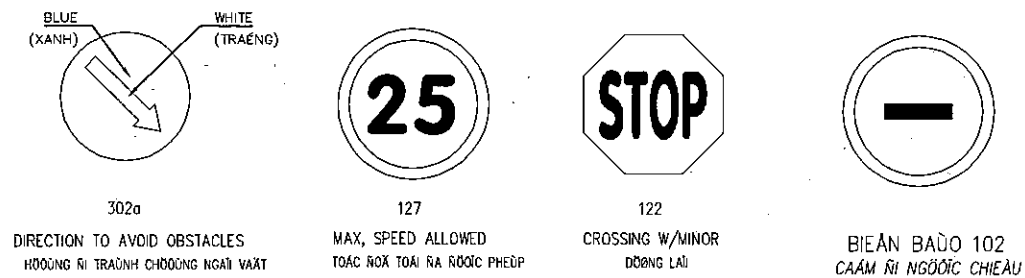
SECTION: ACCESS ROAD TO THIVAI TERMINAL
 SUB-SECTION: LIGHT
 TITLE OF DRAWING: GENERAL PLAN OF LIGHT AND ELECTRIC POST
 DWG NO: PAC2-TV-ACR-026
 REV. NO:



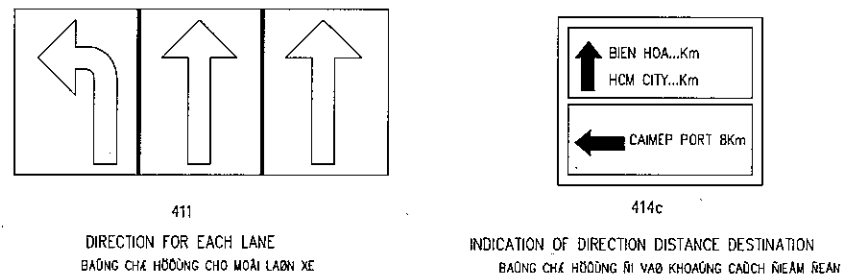
THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85					CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: J. R. MONTANO MICHEL DRAWN BY: TRUONG HOA BINH CHECKED BY: NAGAO N. APPROVED BY: NAGAO N. ISSUE DATE: OCT 10, 2005 SCALE: 1:2000		SECTION: ACCESS ROAD SUB-SECTION: TRAFFIC SAFETY SYSTEM TITLE OF DRAWING: GENERAL LAYOUT OF SIGN AND MARKING	
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 THIVAI AREA		DWG NO: PAC2-TV-ACR-027		REV. NO	
REV NO	DATE	DESCRIPTION	BY	APP						



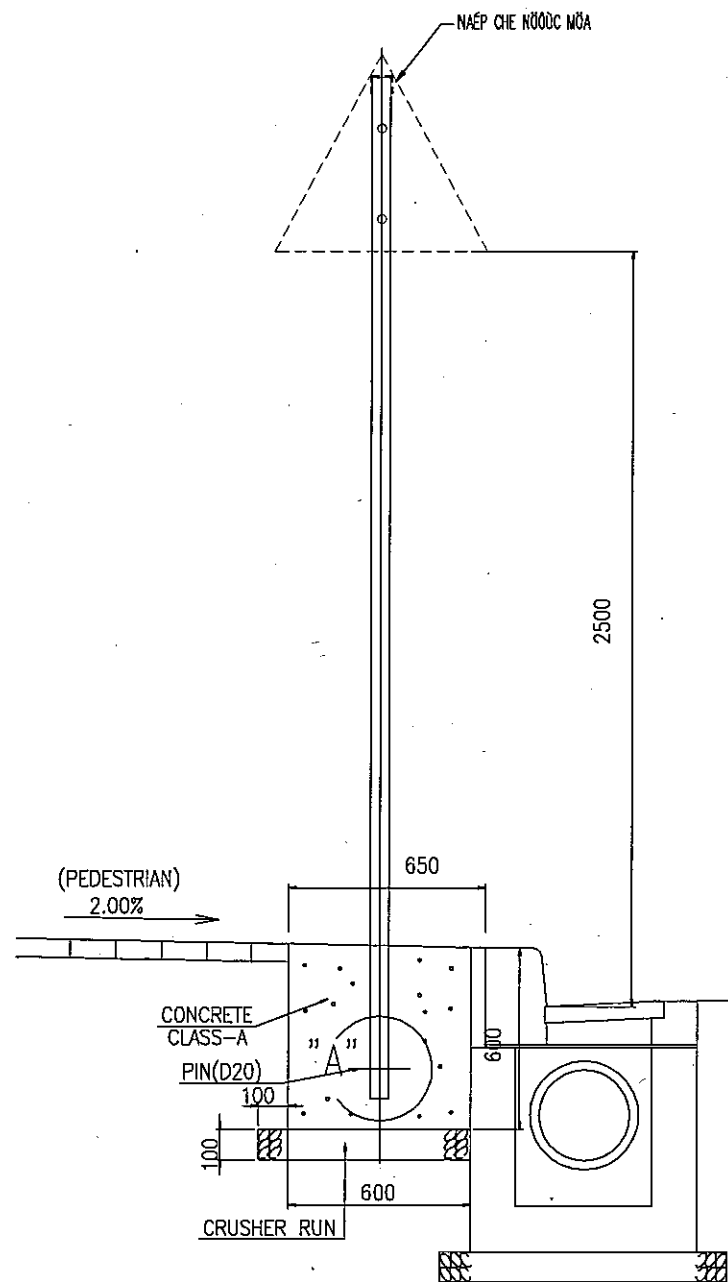
WARNING SIGNS (NOT TO SCALE)
CÁC DẤU HIỆU NHẢY NHƯỜNG NGUY HIỂM (KHÔNG TỶ LỆ)



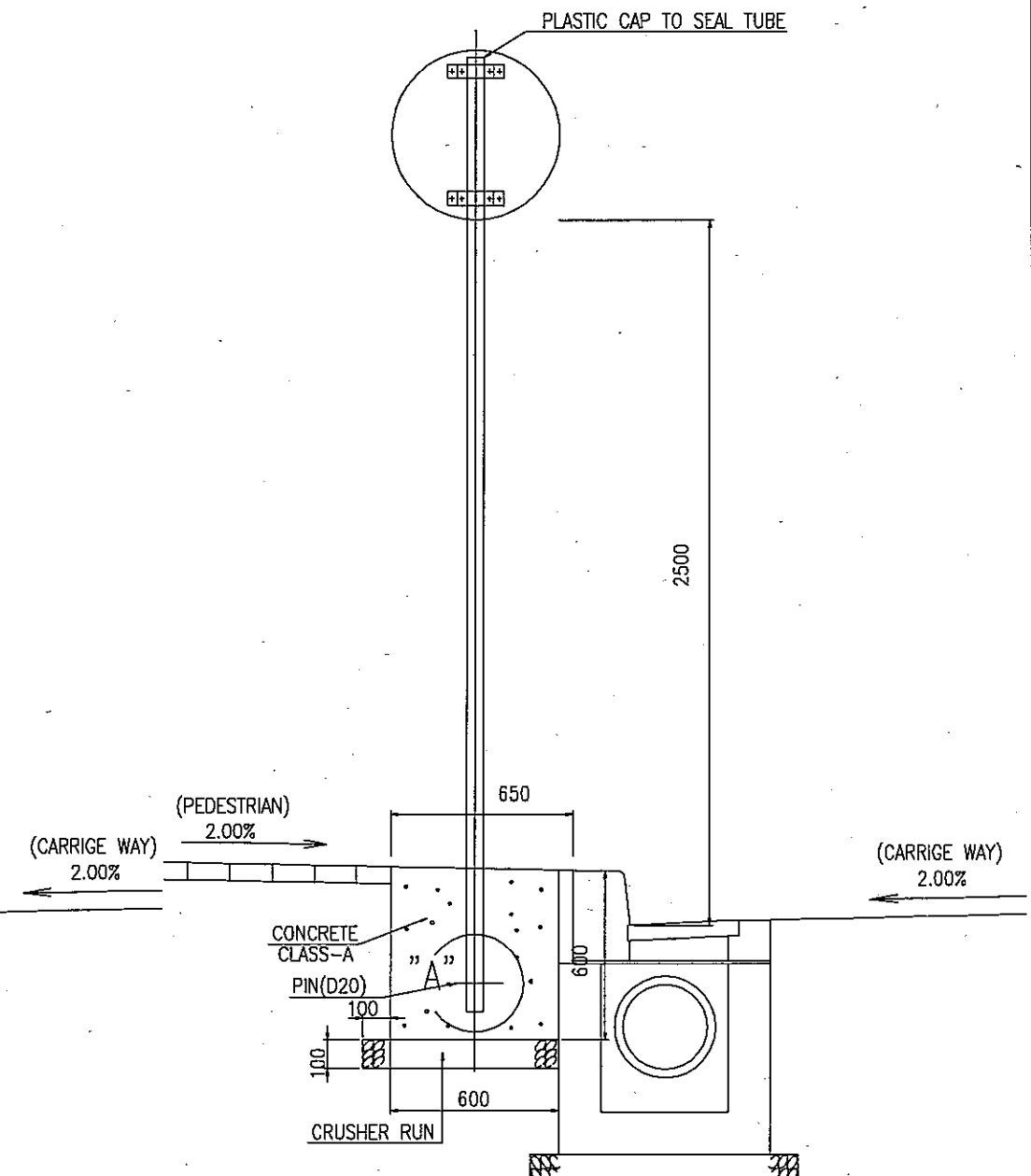
REGULATORY SIGNS (NOT TO SCALE)
CÁC DẤU HIỆU NHẢY NHƯỜNG QUY ĐỊNH (KHÔNG TỶ LỆ)



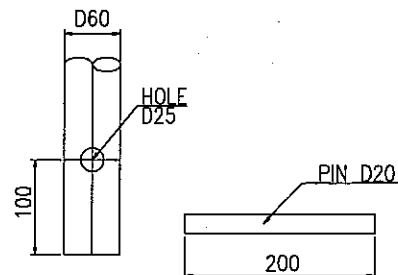
SIGN POST
SCALE 1:25



SIGN POST
SCALE 1:25



DETAIL OF "A"
SC=1/8



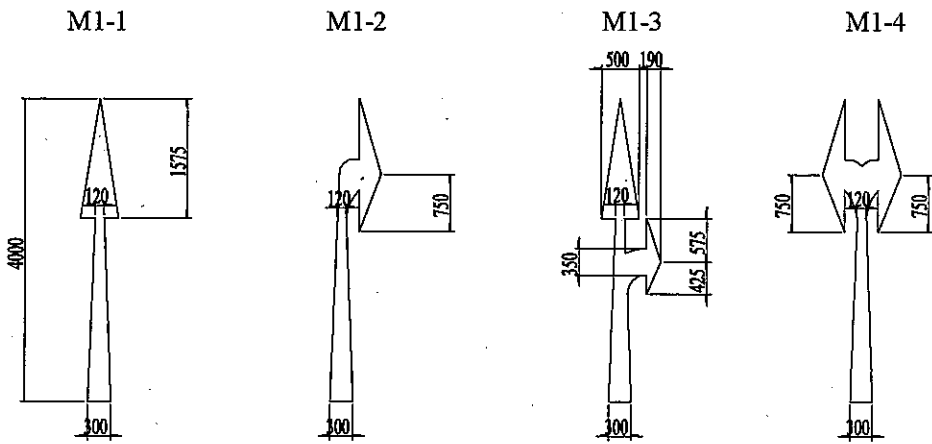
SIGN POST MATERIALS LIST

CLASSIFICATION	STANDARD
CONCRETE BLOCK	CLASS-A 20/40
FOUNDATION	CRUSHER RUN
STEEL PIPE	D60*3mm*3.00m
PIN	D20
CAP	PLASTIC CAP D20

<p>THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>					<p>CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT</p>		<p>DESIGNED BY: J. R. MONTANO MICHEL DRAWN BY: TRUONG HOA BINH CHECKED BY: NACAI K. APPROVED BY: NACAI K. ISSUE DATE: OCT 10, 2005 SCALE:</p>		<p>SECTION: ACCESS ROAD SUB-SECTION: TRAFFIC SAFETY SYSTEM TITLE OF DRAWING: DETAIL OF ROAD SIGNS DWG NO: PAC2-TV-ACR-028 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 CAI MEP AREA</p>					
REV NO	CULTIVATED	DESCRIPTION	BY	APP						

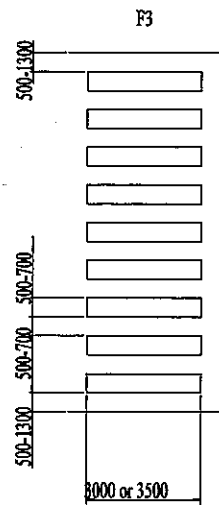
ARROW MARK

BY F12 OF TRAFFIC SIGNS MANUAL

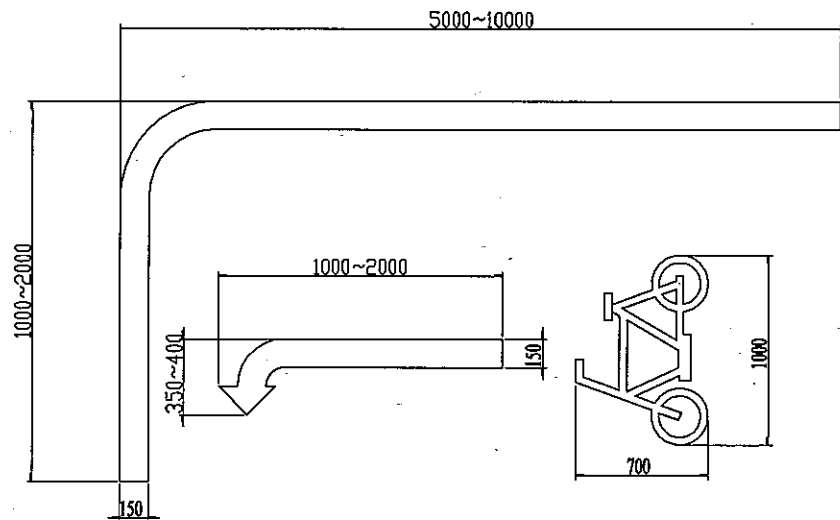


PEDESTRIAN CROSSING

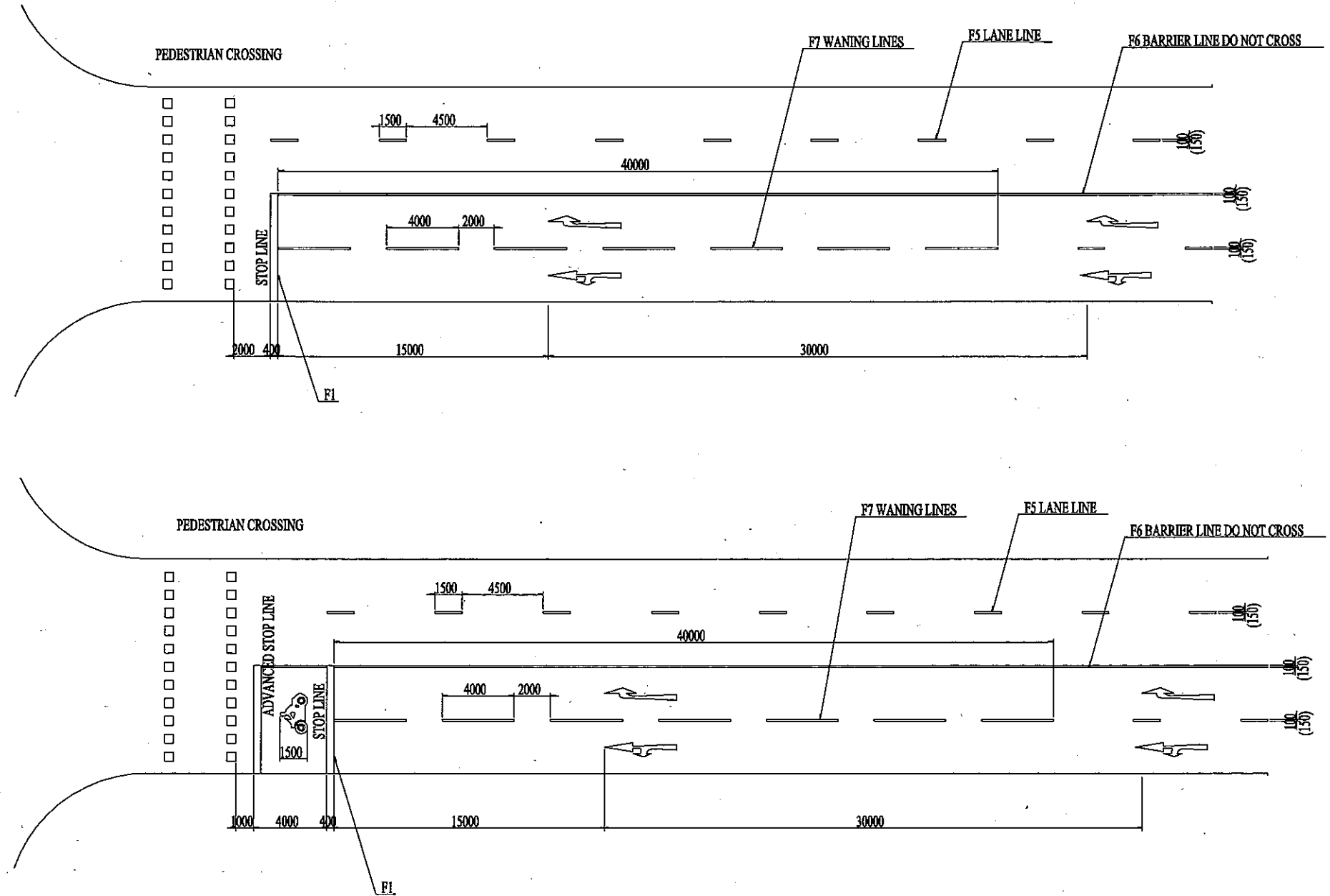
DRIVERS MUST GIVE WAY TO PEDESTRIANS ON THE CROSSING



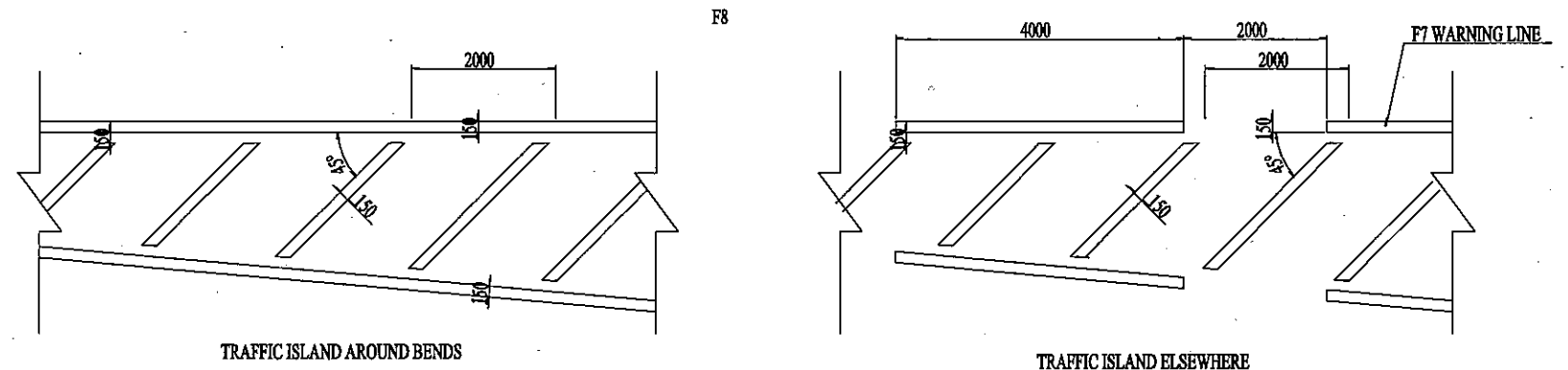
MOTORCYCLE LANE



TRAFFIC SIGNS AT A CROSSROAD



ZEBRA MARKS

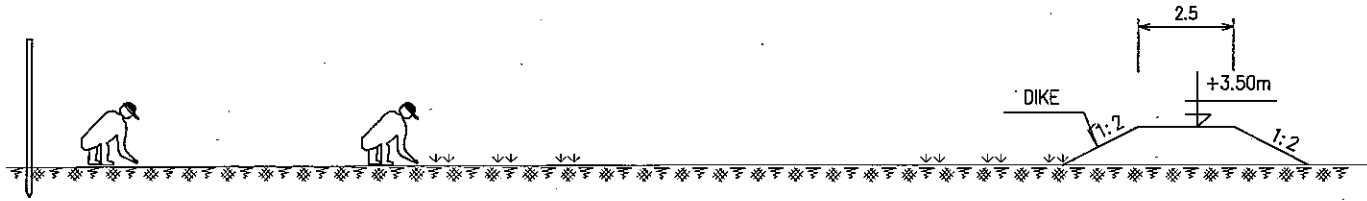


<p>THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>					<p>CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT</p>			<p>DESIGNED BY: J. B. MONTANO MICHEL DRAWN BY: TRUONG HOA BINH CHECKED BY: NAGAIK. APPROVED BY: NAGAIK. ISSUE DATE: OCT 10, 2005 SCALE: 1/200</p>		<p>SECTION: SUB-SECTION: TITLE OF DRAWING: DWG NO: PAC2-TV-ACR-029</p>		<p>ACCESS ROAD TRAFFIC SAFETY SYSTEM DETAIL OF ROAD MARKING</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 CAI MEP AREA</p>			<p>REV. NO</p>		<p>REV. NO</p>		
REV NO	DATE	DESCRIPTION	BY	APP								

CONSTRUCTION SEQUENCE OF SOIL IMPROVEMENT

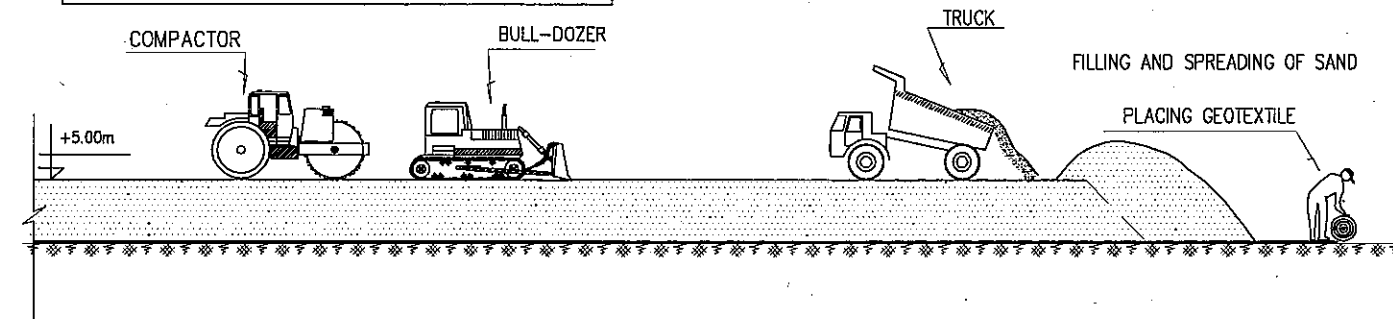
1- SURVEY, CLEARANCE & ORGANIC SOIL REMOVAL

- 1- PERMANENT DATUM INSTALLATION
- 2- ORGANIC SOIL REMOVAL
- 3- SURVEY WORKS AND SITE INVESTIGATION
- 4- DIKE CONSTRUCTION AGAINST FLOOD



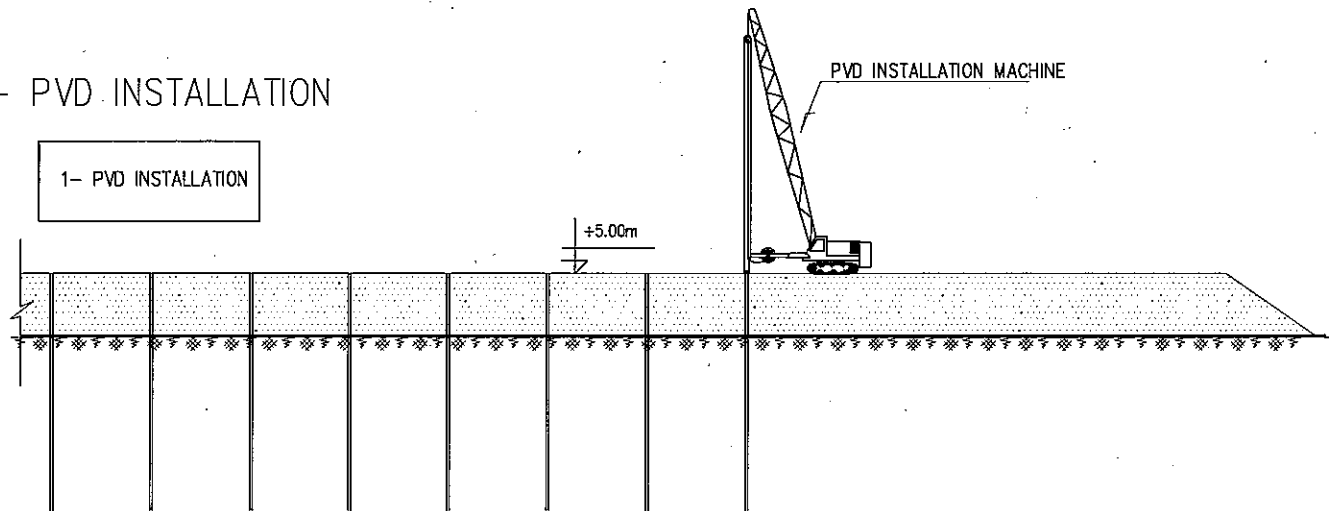
2- PLACING GEOTEXTILE & SAND FILLING TO +5.00M

- 1- PLACING GEOTEXTILE, SETTLEMENT PLATE INSTALLATION.
- 2- SAND FILLING TO +5.00m.



3- PVD INSTALLATION

- 1- PVD INSTALLATION

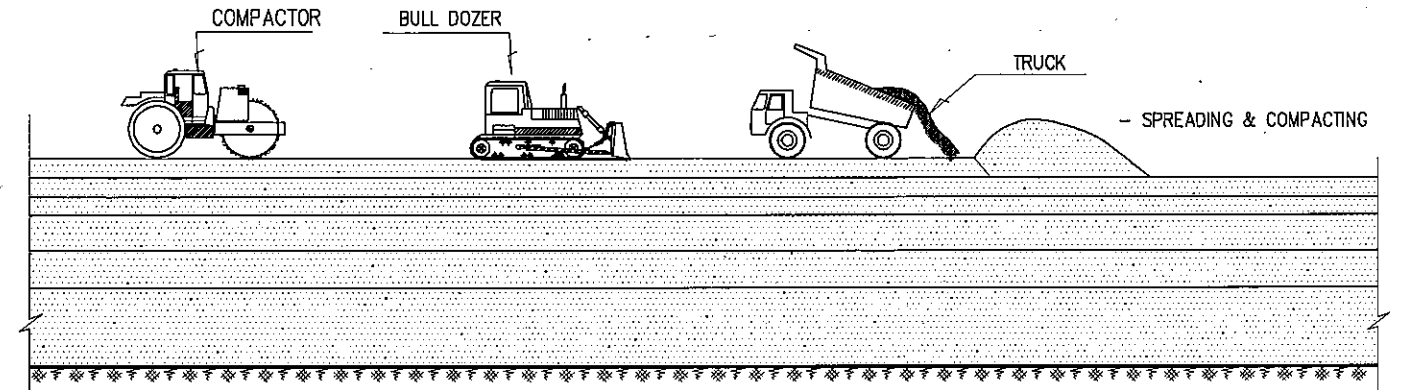


4- SETUP DRAINAGE SYSTEM

- 1- PLACING STRIP DRAIN

5- SURCHARGING TO DESIGN ELEVATION

- 1- SAND SURCHARGE TO +7.0m (RS2), +6.5m (RS3), +6.2m (RS4)



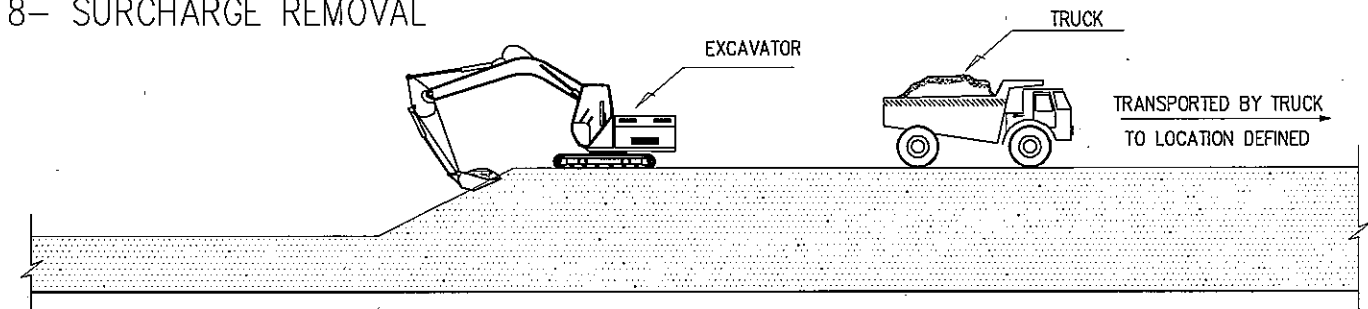
6- TEMPORARY ROAD

- 1- TEMPORARY ROAD

7- MONITORING DURING PRE-LOADING PERIOD

- 1- MOVEMENTS AND POREPRESSURE MONITORING
- 2- CHECKING FINAL SETTLEMENT

8- SURCHARGE REMOVAL



NOTES:

- DIMENSIONS ARE IN [M], ELEVATIONS ARE IN [M] - CHART DATUM



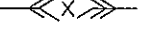



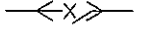
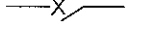














					THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: J. R. MONTANO MICHEL DRAWN BY: PHAN TRUONG AN CHECKED BY: NAGAIK APPROVED BY: NAGAIK ISSUE DATE: OCT 10, 2005 SCALE: 1/2000, 1/1000		SECTION: ACCESS ROAD SUB-SECTION: CONSTRUCTION METHOD TITLE OF DRAWING: CONSTRUCTION SEQUENCE OF SOIL IMPROVEMENT	
					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-ACR-030		REV. NO	
REV NO	DATE	DESCRIPTION	BY	APP								

CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT
PACKAGE 2 : CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA
VOLUME IV : BID DRAWINGS - CIVIL AND UTILITY WORKS -
LIST OF THE DRAWINGS

[15] UTILITY WORKS

DWG NO.	TITLE OF DRAWING	DWG NO.	TITLE OF DRAWING
ELECTRIC WORK			
GENERAL			
PAC2- TV- UTY- E- 0- 001	General Notes and Legend	PAC2- TV- UTY- U- 1- 006	Details of Water Tank and Pump Room (Structure)
		PAC2- TV- UTY- U- 1- 007	Details of Water Tank and Pump Room (Electricity)
		PAC2- TV- UTY- U- 1- 008	Details of Water Valve
		PAC2- TV- UTY- U- 1- 009	Countermeasure of Ground Subsidence
		PAC2- TV- UTY- U- 1- 010	Fountain System of PMB Main Office
POWER SUPPLY AND COMMUNICATION SYSTEM		DRAINAGE AND WASTE WATER TREATMENT SYSTEM	
PAC2- TV- UTY- E- 1- 001	Power Supply Single Line Diagrams (1/3)	PAC2- TV- UTY- U- 2- 001	System Layout for Terminal (1)
PAC2- TV- UTY- E- 1- 002	Power Supply Single Line Diagrams (2/3)	PAC2- TV- UTY- U- 2- 002	System Layout for Terminal (2)
PAC2- TV- UTY- E- 1- 003	Power Supply Single Line Diagrams (3/3)	PAC2- TV- UTY- U- 2- 003	System Layout for Terminal (3)
PAC2- TV- UTY- E- 1- 004	Compact Substation Single Line Diagrams	PAC2- TV- UTY- U- 2- 004	System Layout for Terminal (4)
PAC2- TV- UTY- E- 1- 005	Substation Equipment Layout	PAC2- TV- UTY- U- 2- 005	System Layout for PMB Main Office
PAC2- TV- UTY- E- 1- 006	Container Terminal Power Layout	PAC2- TV- UTY- U- 2- 006	Grease Trap - Gasoline Trap
PAC2- TV- UTY- E- 1- 007	Communication Layout	PAC2- TV- UTY- U- 2- 007	Details of Trench and Pit Cover - Countermeasure of Ground Subsidence
PAC2- TV- UTY- E- 1- 008	Socket Outlet Board Schedule	PAC2- TV- UTY- U- 2- 008	Details of Crane Electric Pit
PAC2- TV- UTY- E- 1- 009	Electrical Cable Trench Details	PAC2- TV- UTY- U- 2- 009	Septic Tank System (1)
PAC2- TV- UTY- E- 1- 010	Electrical Manhole and Handhole	PAC2- TV- UTY- U- 2- 010	Layout and Section for Septic Tank (1)
PAC2- TV- UTY- E- 1- 011	Power Supply Single Line Diagram for PMB Main Office	PAC2- TV- UTY- U- 2- 011	Septic Tank System (2)
PAC2- TV- UTY- E- 1- 012	Exterior Lighting Layout for PMB Main Office	PAC2- TV- UTY- U- 2- 012	Layout and Section for Septic Tank (2)
EXTERIOR LIGHTING SYSTEM			
PAC2- TV- UTY- E- 2- 001	General Cargo Terminal Lighting Layout		
PAC2- TV- UTY- E- 2- 002	Yard Lighting Panel Schedule (1/2)		
PAC2- TV- UTY- E- 2- 003	Yard Lighting Panel Schedule (2/2)		
PAC2- TV- UTY- E- 2- 004	Detail of Road Light Pole		
PAC2- TV- UTY- E- 2- 005	Detail of High Mast Light Pole		
UTILITY WORK			
WATER SUPPLY AND FIRE FIGHTING SYSTEM			
PAC2- TV- UTY- U- 1- 001	System Diagram		
PAC2- TV- UTY- U- 1- 002	System Layout for Terminal (1)		
PAC2- TV- UTY- U- 1- 003	System Layout for Terminal (2)		
PAC2- TV- UTY- U- 1- 004	System Layout for PMB Main Office		
PAC2- TV- UTY- U- 1- 005	Details of Water Tank and Pump Room (Pumps & Piping)		

LEGEND

	LIGHTING ARRESTER
	POWER TRANSFORMER
	VACUUM CIRCUIT BREAKER (VCB)
	DRAW OUT TYPE OR
	AIR CIRCUIT BREAKER (ACB)
	DRAW OUT TYPE
	DITTO BUT, FIXED TYPE
	MOLDED CASE CIRCUIT BREAKER (MCCB)
	CURRENT TRANSFORMER
	VOLTAGE TRANSFORMER
	FUSE
	VOLTMETER
	AMMETER
	WATTMETER
	WATT-HOUR METER
	FREQUENCY METER
	POWER FACTOR METER
	POWER CAPACITOR WITH AUTO-CONTROLLER
	OVER CURRENT RELAY
	GROUNDING OVER CURRENT RELAY
	OVER VOLTAGE RELAY
	UNDER VOLTAGE RELAY

ABBREVIATIONS:


VCB	VACUUM CIRCUIT BREAKER
ACB	AIR CIRCUIT BREAKER
MCCB	MOLDED CASE CIRCUIT
(MCB)	BREAKER
AF/AT	AMPER FRAME/ AMPER TRIP
CKT	CIRCUIT
GRD	GROUND
HPS	HIGH PRESSURE SODIUM VAPOR LAMP
S/S	SUBSTATION
CSS	COMPACT SUBSTATION
CT	CURRENT TRANSFORMER
PT	VOLTAGE TRANSFORMER

APPLICATION STANDARDS:

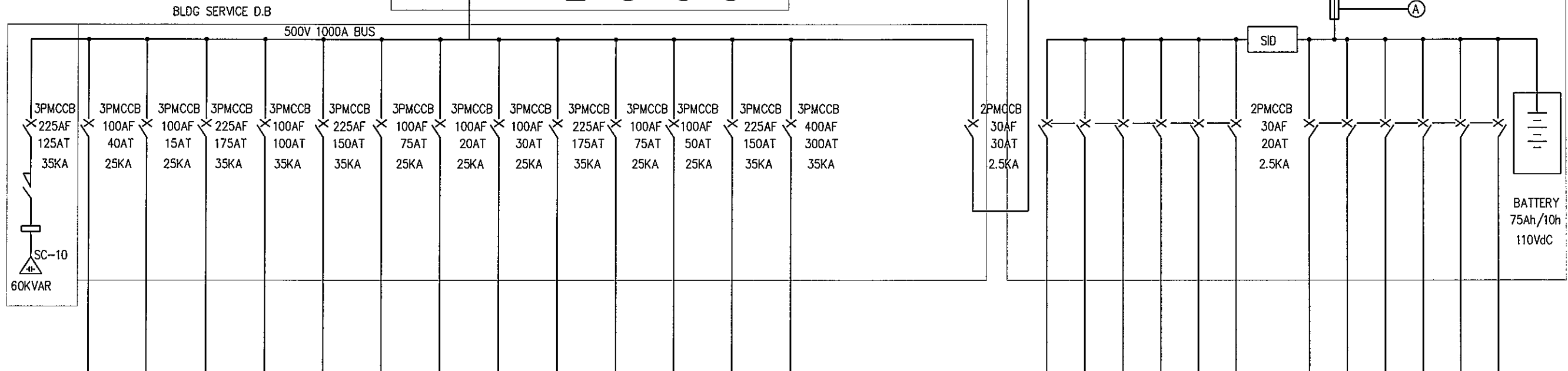
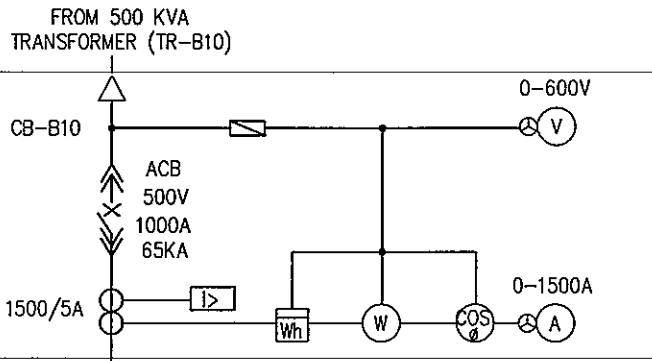
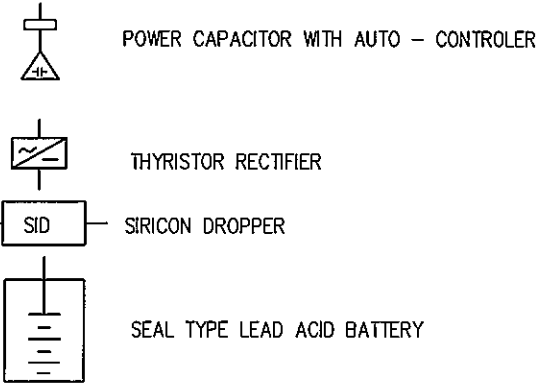
IEC 76	POWER TRANSFORMER
IEC 56	VCB
IEC 60947	ACB
IEC 157	MCCB
IEC 60694 60288	MV SWITCHGEAR
IEC 947	LV SWITCHGEAR
IEC 1330	COMPACT SUBSTATION
IEC 185	CT
IEC 186	PT
IEC 60502 TCVN 5935	XLPE POWER CABLE
IEC 61386 JISC 3653	HDPE PIPE

NOTES:

- ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF LATEST EDITION OF THE VIETNAM ELECTRICAL CODE THE LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE COMPANIES.
- THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE WORK AND SHALL FURNISH THE EMPLOYER THROUGH THE ENGINEERS, FINAL CERTIFICATES OF ELECTRICAL INSPECTIONS AND APPROVAL FROM THE PROPER GOVERNMENT AUTHORITIES FOR COMPLETE WORK.
- ALL MATERIALS TO BE USED SHALL BE NEW AND INSTALLED ONLY IN APPLICATIONS FOR WHICH THEY ARE INTENDED
- ALL METALLIC CONDUITS, CABINETS AND EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED BY MEANS OF COPPER STRAPS. CONNECTIONS TO THE MAIN GROUNDING CONDUCTOR SHALL BE EXPOSED AND READILY ACCESSIBLE FOR INSPECTION.
- THE INDICATED DIAMETER SIZE OF ALL CONDUITS SHALL BE INTERPRETED AS INTERNAL DIAMETER.
- ALL ELECTRICAL OUTLETS SHALL BE PROPERLY GROUNDED TO THE BOX BY MEANS OF GROUNDING LUGS.
- PULLBOXES SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THESE ARE NOT INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR THE EXACT LOCATION OF OUTDOOR SOCKET OUTLETS, MOTORS, CONTROLLERS AND POWER TAPPING POINTS.

				THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP – THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT		DESIGNED BY: TOYOSHIMA Y.		SECTION: ELECTRIC WORKS	
						PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA		DRAWN BY: DO THI VINH		SUB-SECTION: POWER SUPPLY AND COMMUNICATION SYSTEM	
								CHECKED BY: NAGAO N.		TITLE OF DRAWING: GENERAL NOTES AND LEGEND	
								APPROVED BY: NAGAI K.		DWG NO: PAC2-TV-UTY-E-0-001	
REV NO	DATE	DESCRIPTION	BY	APP			ISSUE DATE: 22/ AUG/ 2005				REV. NO

SYMBOLS:



TO BUILDING	EL (KVA)	OL (KVA)
SUBSTATION	17	-
FUEL STATION	-	4
MAINTENANCE SHOP	-	51
AMENITY BLDG	-	70
OPERATION BLDG	-	68
CHECK GATE	10	-
SECURITY OFFICE	13	-
PMB BRANCH OFFICE	-	61
PUMP HOUSE	14	-
SPACE	-	-
FOR EMERGENCY GENERATOR FEEDER		

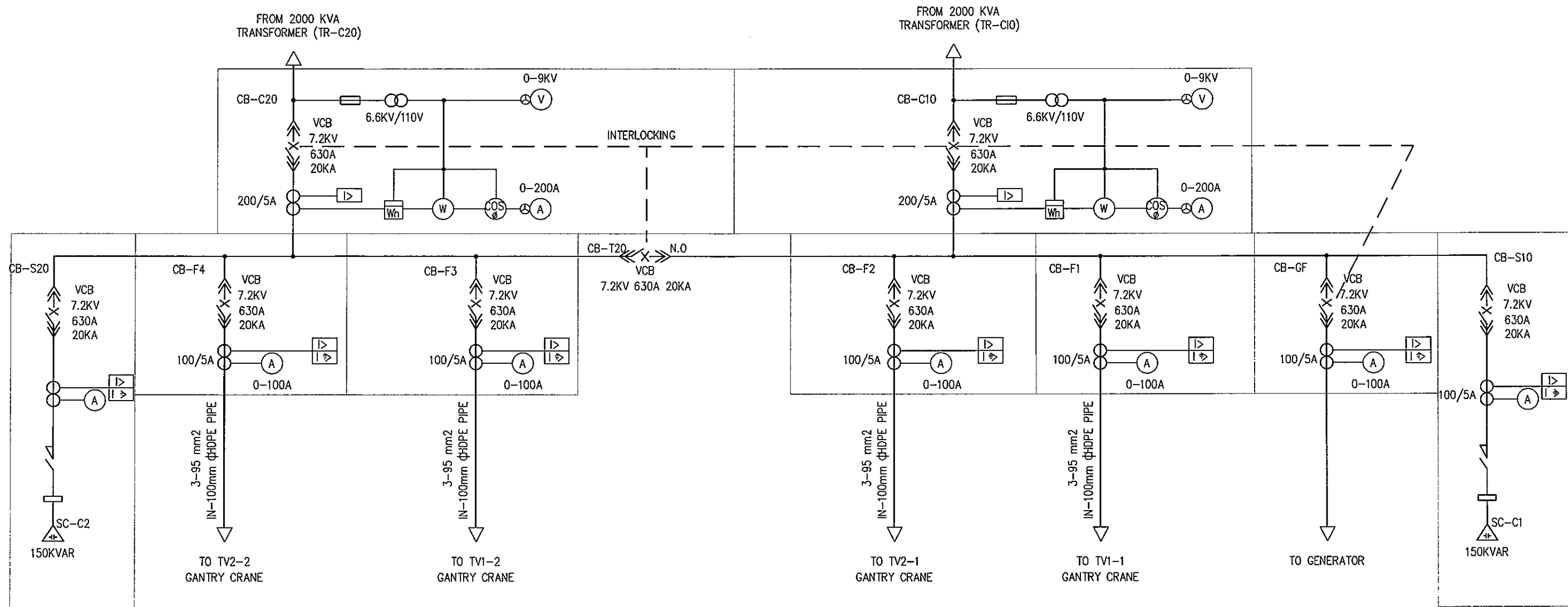
DC SERVICES IN SUBSTATION	22KV CONTROL 2 NOS.-2P.15AT / 30AF.MCCB
6.6KV CONTROL	2 NOS.-2P.15AT / 30AF.MCCB
LV ACB CONTROL	1 NO.-2P.15AT / 30AF.MCCB
SPARE	1 NO.-2P.15AT / 30AF.MCCB
22KV VCB CLOSING	2 NOS.-2P.15AT / 30AF.MCCB
6.6KV VCB CLOSING	2 NOS.-2P.15AT / 30AF.MCCB
LV ACB CLOSING	1 NO.-2P.15AT / 30AF.MCCB
SPARE	1 NO.-2P.15AT / 30AF.MCCB

NOTE:

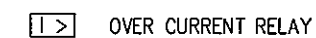
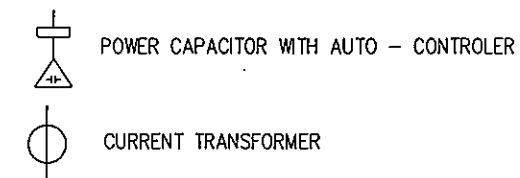
OL : ORDINARY LOAD

EL : EMERGENCY LOAD

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: POWER SUPPLY AND COMMUNICATION SYSTEM TITLE OF DRAWING: POWER SUPPLY SINGLE LINE DIAGRAMS (2/3) DWG NO: PAC2-TV-UTY-E-1-002 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			



SYMBOLS:



N.O NORMAL OPEN

NOTE:

- INTERLOCKING SYSTEM BETWEEN NORMAL POWER AND POWER FROM THE EMERGENCY GENERATOR TO BE SUPPLIED BY OTHERS SHALL BE AS SHOWN IN THE TABLE HEREUNDER. INTERLOCKING SYSTEM SHALL OPERATE AUTOMATICALLY.

CIRCUIT BREAKER	CIRCUIT BREAKER ACTIVITY					
	CB-C10	CB-C20	CB-T20	CB-GF	CB-S10	CB-S20
POWER SUPPLY						
NORMAL POWER	CLOSE (ON)	CLOSE (ON)	OPEN (OFF)	OPEN (OFF)	CLOSE (ON)	CLOSE (ON)
EMERGENCY POWER	OPEN (OFF)	OPEN (OFF)	CLOSE (ON)	CLOSE (ON)	OPEN (OFF)	OPEN (OFF)

- ALL EQUIPMENT TO BE INSTALLED IN SUBSTATION

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PACIFIC CONSULTANTS INTERNATIONAL (PCI)
INTERNATIONAL DEVELOPMENT SYSTEM (IDS)

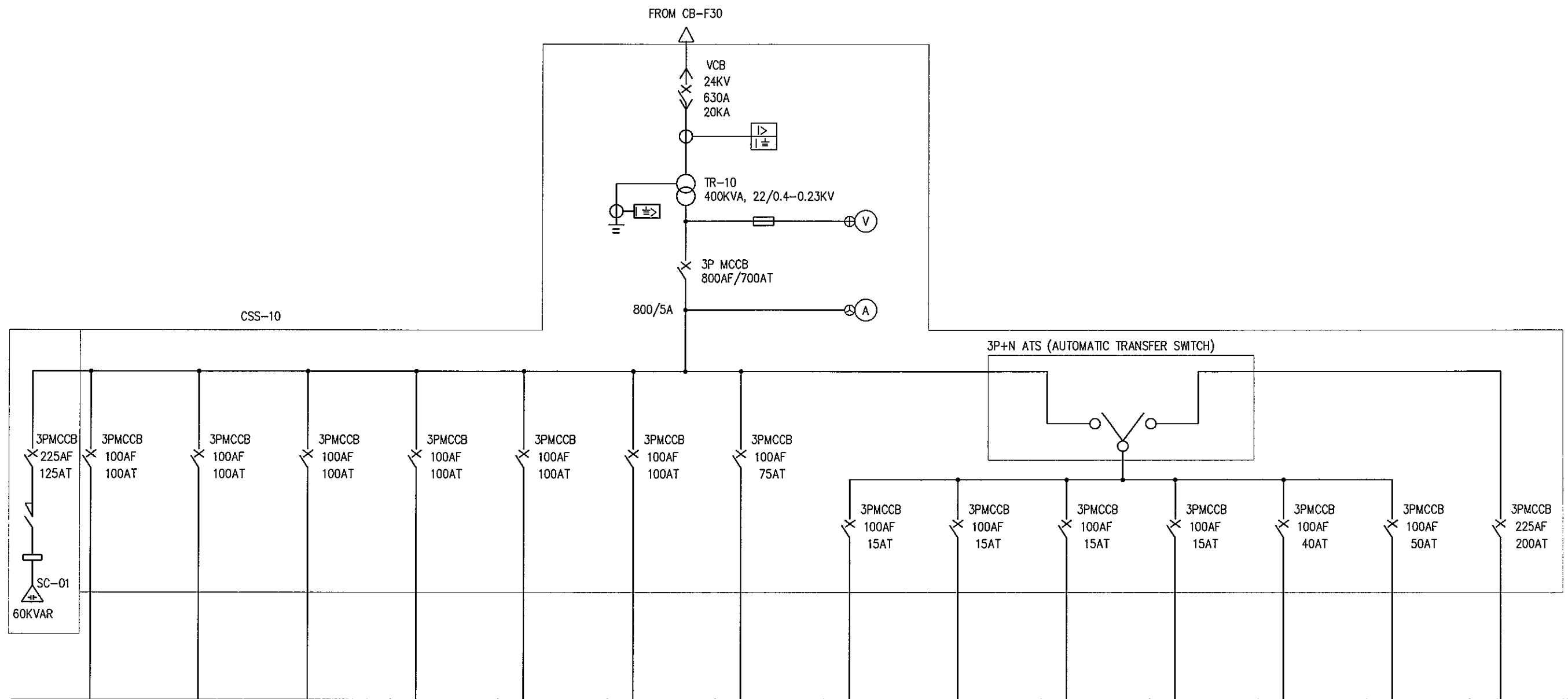
CAI MEP - THI VAI INTERNATIONAL PORT
DEVELOPMENT PROJECT

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

DESIGNED BY: TOYOSHIMA Y.
DRAWN BY: DO THI MINH
CHECKED BY: NAGAI K.
APPROVED BY: NAGAI K.
ISSUE DATE: 22/ AUG/ 2005
SCALE:

SECTION: ELECTRIC WORKS
SUB-SECTION: POWER SUPPLY AND COMMUNICATION SYSTEM
TITLE OF DRAWING: POWER SUPPLY SINGLE LINE DIAGRAMS (3/3)
DWG NO: PAC2-TV-UTY-E-1-003
REV. NO

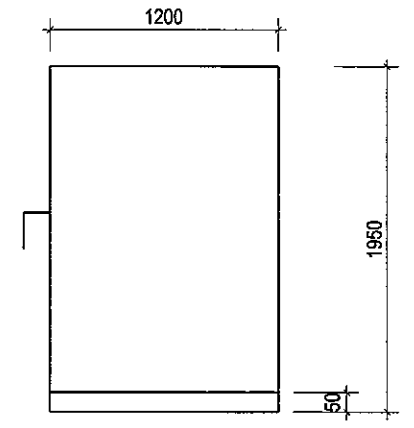
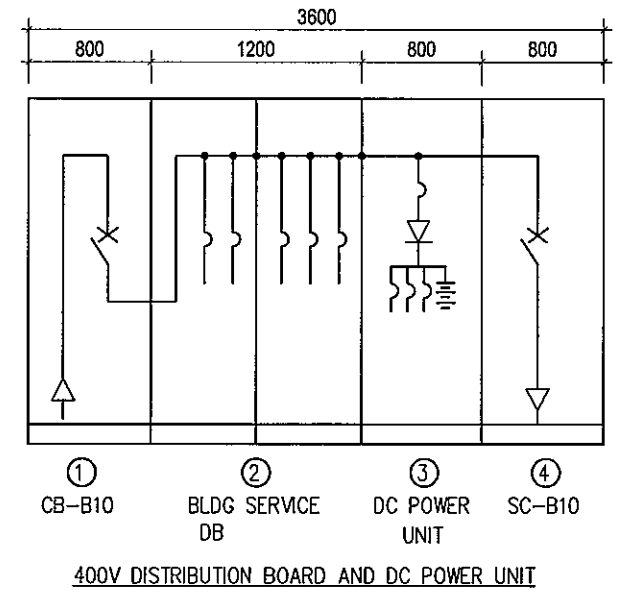
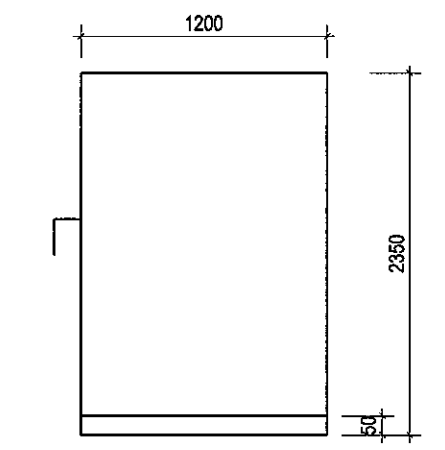
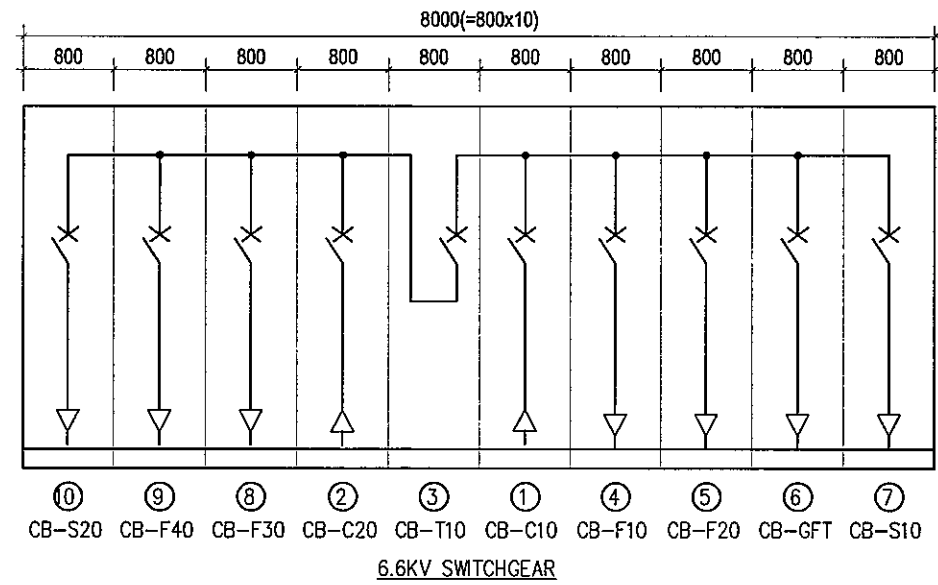
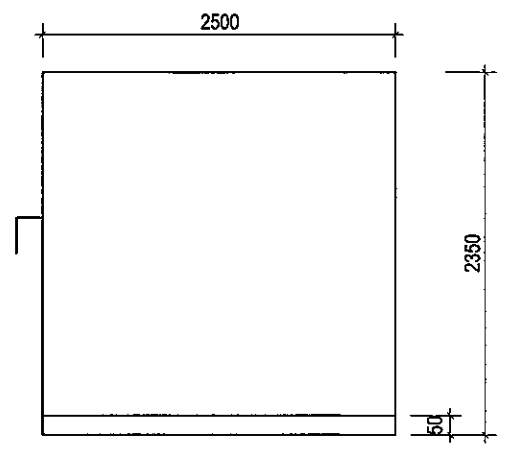
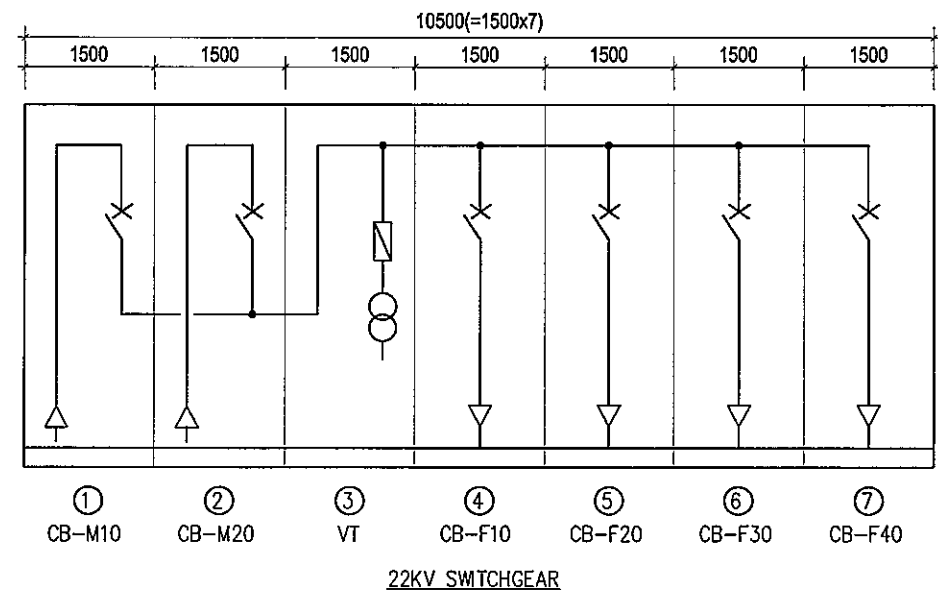
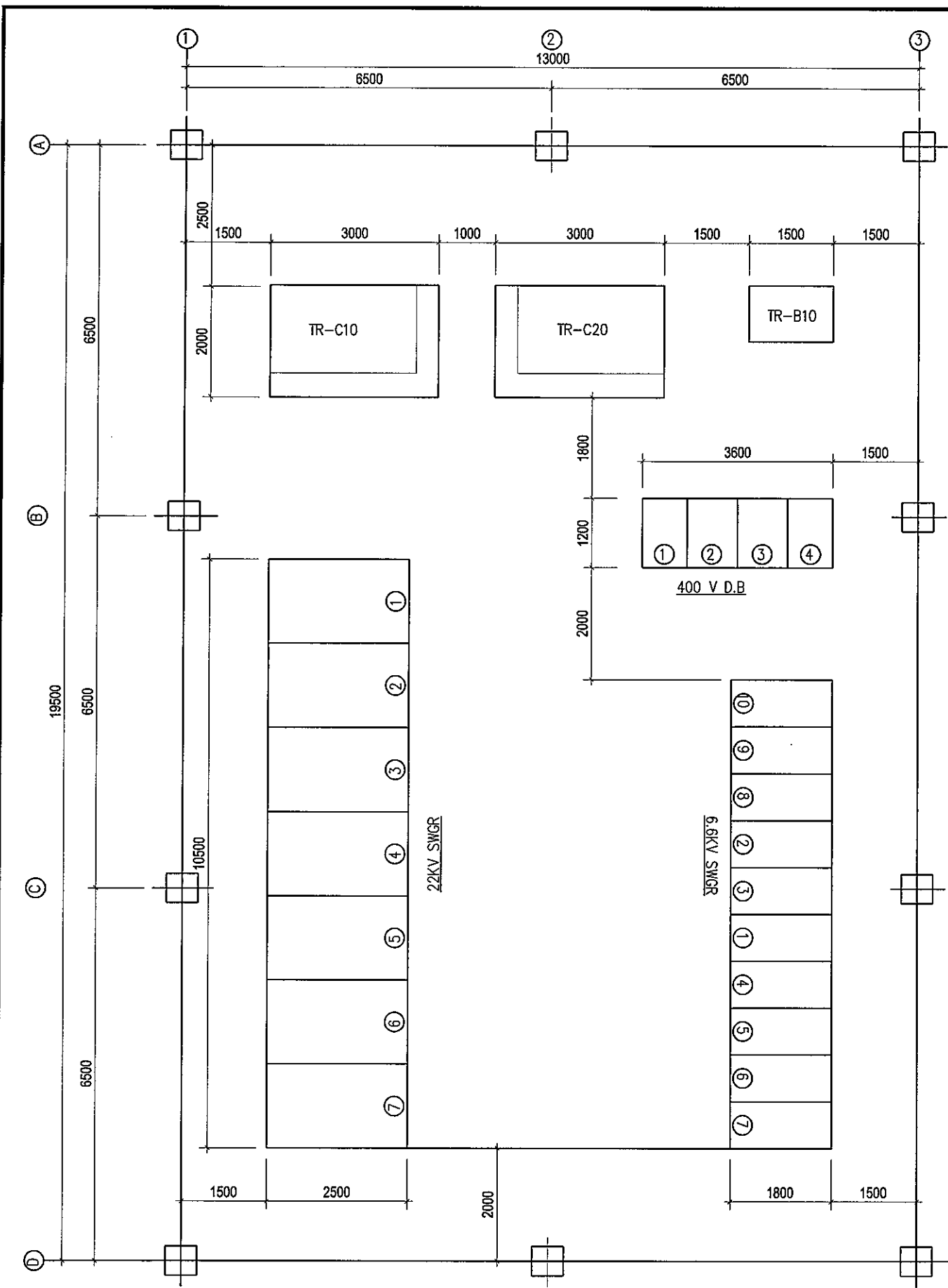
REV NO	DATE	DESCRIPTION	BY	APP



TO LOAD	EL (KVA)	OL (KVA)
TRANSIT SHED(1) 3-35mm2+1-25mm2 in-80mm ΦHDPE PIPE	-	42
WARE HOUSE (1) 3-35mm2+1-25mm2 in-80mm ΦHDPE PIPE	-	42
TRANSIT SHED (2) 3-35mm2+1-25mm2 in-80mm ΦHDPE PIPE	-	42
WARE HOUSE (2) 3-35mm2+1-25mm2 in-80mm ΦHDPE PIPE	-	42
LP-01 (YARD LIGHTING) 3-50mm2+1-35mm2 in-80mm ΦHDPE PIPE	-	30
LP-02 (YARD LIGHTING) 3-70mm2+1-50mm2 in-80mm ΦHDPE PIPE	-	45
SOCKET OUTLETS FOR CRANE MAINTENANCE 3-35mm2+1-25mm2 in-80mm ΦHDPE PIPE	-	33
TRANSIT SHED(1) 3-16mm2+1-10mm2 in-50mm ΦHDPE PIPE	6	-
WARE HOUSE (1) 3-16mm2+1-10mm2 in-50mm ΦHDPE PIPE	6	-
TRANSIT SHED(2) 3-16mm2+1-10mm2 in-50mm ΦHDPE PIPE	6	-
WARE HOUSE (2) 3-16mm2+1-10mm2 in-50mm ΦHDPE PIPE	6	-
ELP-01 (YARD LIGHTING) 3-25mm2+1-16mm2 in-50mm ΦHDPE PIPE	16	-
ELP-02(YARD LIGHTING) 3-35mm2+1-25mm2 in-80mm ΦHDPE PIPE	23	-
FOR EMERGENCY GENERATOR FEEDER		

NOTE:
OL : ORDINARY LOAD
EL : EMERGENCY LOAD

THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		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 MINH CHECKED BY: NAGAO N. APPROVED BY: NAGAI K. ISSUE DATE: 22/ AUG/ 2005 SCALE: -	SECTION: ELECTRIC WORKS SUB-SECTION: POWER SUPPLY AND COMMUNICATION SYSTEM TITLE OF DRAWING: COMPACT SUBSTATION SINGLE LINE DIAGRAM DWG NO: PAC2-TV-UTY-E-1-004 REV. NO
REV NO	DATE	DESCRIPTION	BY	APP	



REV NO	DATE	DESCRIPTION	BY	APP

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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: ---

SECTION: ELECTRIC WORKS
 SUB-SECTION: POWER SUPPLY AND COMMUNICATION SYSTEM
 TITLE OF DRAWING: SUBSTATION EQUIPMENT LAYOUT

DWG NO: PAC2-TV-UTY-E-1-005
 REV. NO

LEGEND:

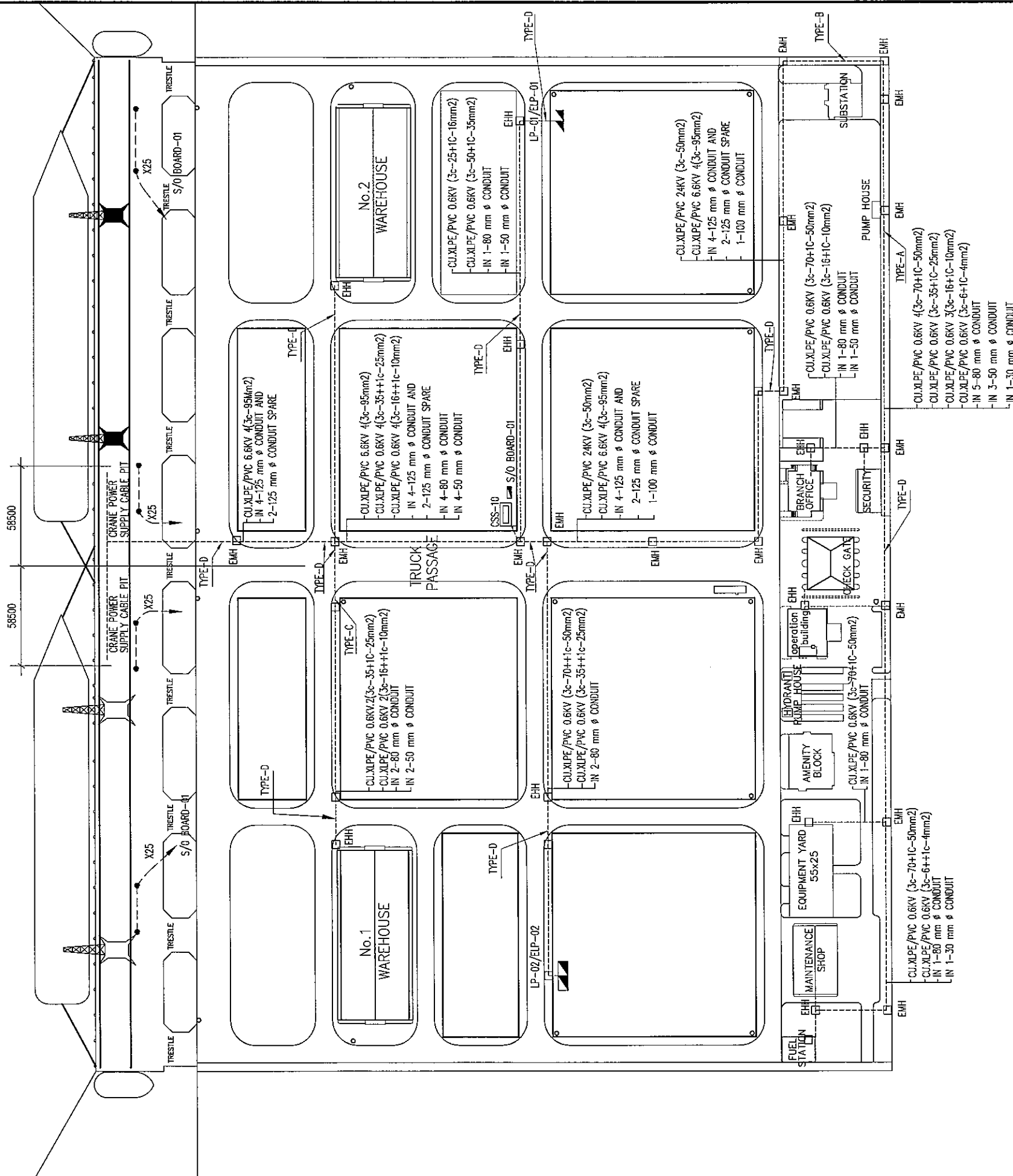
- 400V SOCKET OUTLET FOR CRANES AND RTGS MAINTENANCE
- EMH: ELECTRICAL MANHOLE
- EHH: ELECTRICAL HANDHOLE
- ▣ S/O BOARD: SOCKET OUTLET BOARD
- CSS: COMPACT SUBSTATION

WIRING SCHEDULE

SYMBOL	WIRES		CONDUIT (HDPE PIPE)
	PHASE	GROUND	
Y50	Cu.XLPE/PVC 24KV 3-50mm ²		100mm φ
Y95	Cu.XLPE/PVC 6.6KV 3-95 mm ²		125mm φ
X70	Cu.XLPE/PVC 0.6KV 3-70 mm ²	1-50 mm ²	80mm φ
X50	Cu.XLPE/PVC 0.6KV 3-50 mm ²	1-35 mm ²	80mm φ
X35	Cu.XLPE/PVC 0.6KV 3-35 mm ²	1-25 mm ²	80mm φ
X25	Cu.XLPE/PVC 0.6KV 3-25 mm ²	1-16 mm ²	50mm φ
X16	Cu.XLPE/PVC 0.6KV 3-16 mm ²	1-10 mm ²	50mm φ
X6	Cu.XLPE/PVC 0.6KV 3-6 mm ²	1-4mm ²	30mm φ

NOTE

- INSTALLATION OF 6.6KV POWER SUPPLY CABLES FOR QUAY SIDE GANTRY CRANES SHALL BE AS FOLLOWS:
- SUBSTATION TO TRESTLE: PROVIDE UNDERGROUND HDPE PIPES UP TO THE TRESTLE
 - TRESTLE TO CABLE PIT ON THE QUAY: CABLES SHALL PASS THROUGH THE SPACE BETWEEN THE T BEAMS FROM END OF THE T BEAMS TO THE CABLE PIT, PROVIDE PVC SLEEVES
 - ALL 400 VOLT SOCKET OUTLETS FOR CRANES AND RTGs MAINTENANCE SHALL BE INSTALLED IN APPROPRIATE HANDHOLES.



REV NO	DATE	DESCRIPTION	BY	APP

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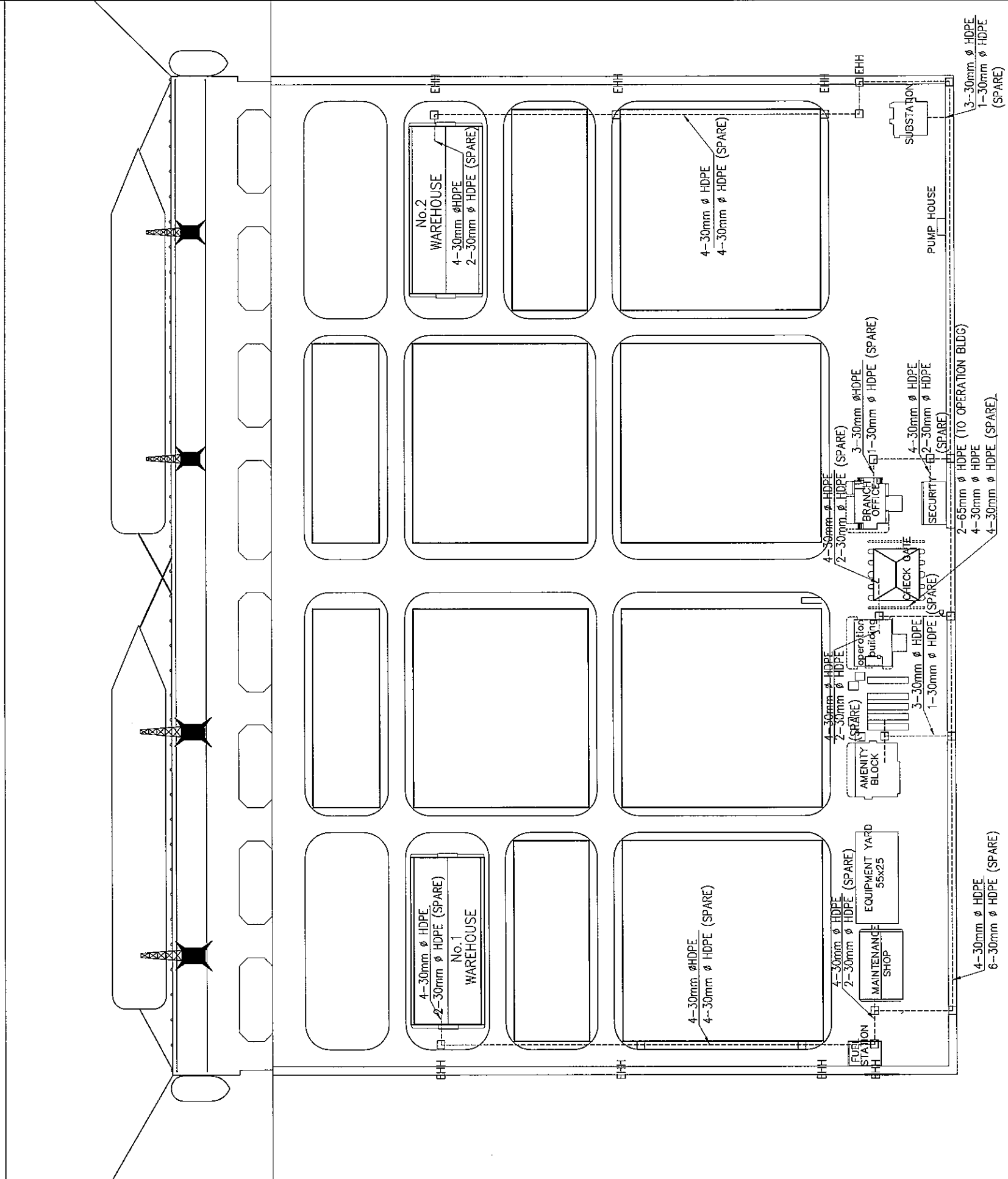
PACKAGE 2
 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR
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DESIGNED BY: TOYOSHIMA Y.
 DRAWN BY: DO THI VINH
 CHECKED BY: NAGAO N.
 APPROVED BY: NAGAI K.
 ISSUE DATE: 10/ JAN/ 2006
 SCALE: -

SECTION: ELECTRIC WORKS
 SUB-SECTION: POWER SUPPLY AND COMMUNICATION SYSTEM
 TITLE OF DRAWING: CONTAINER TERMINAL POWER LAYOUT
 DWG NO: PAC2-TV-UTY-E-1-006
 REV. NO

WIRING SCHEDULE

BUILDING SYSTEM	OPERATION BUILDING	PMB BRANCH OFFICE	AMENITY BLOCK	CHECK GATE	MAINTENANCE SHOP	WARE HOUSE (1)	WARE HOUSE (2)	SUBSTATION	SECURITY OFFICE
TELEPHONE	FROM TO	0.5mm-10P CCP-P, IN 30mm φ HDPE	0.5mm-20P CCP-P, IN 30mm φ HDPE	0.5mm-10P CCP-P, IN 30mm φ HDPE	0.5mm-10P CCP-P, IN 30mm φ HDPE	0.5mm-10P CCP-P, IN 30mm φ HDPE	0.5mm-10P CCP-P, IN 30mm φ HDPE	0.5mm-10P CCP-P, IN 30mm φ HDPE	0.5mm-10P CCP-P, IN 30mm φ HDPE
PUBLIC ADDRESS		1.2 mm-10P OPEV, IN 30mm φ HDPE	1.2 mm-10P OPEV, IN 30mm φ HDPE	1.2 mm-5P OPEV, IN 30mm φ HDPE	1.2 mm-5P OPEV, IN 30mm φ HDPE	1.2 mm-5P OPEV, IN 30mm φ HDPE	1.2 mm-5P OPEV, IN 30mm φ HDPE	1.2 mm-5P OPEV, IN 30mm φ HDPE	1.2 mm-5P OPEV, IN 30mm φ HDPE
LAN					FIBER OPTIC CABLE IN 30mm φ HDPE	FIBER OPTIC CABLE IN 30mm φ HDPE	FIBER OPTIC CABLE IN 30mm φ HDPE		FIBER OPTIC CABLE IN 30mm φ HDPE
FIRE ALARM		1.2 mm-5P OPEV, IN 30mm φ HDPE	1.2 mm-5P OPEV, IN 30mm φ HDPE	1.2 mm-5P OPEV, IN 30mm φ HDPE	1.2 mm-5P OPEV, IN 30mm φ HDPE	1.2 mm-5P OPEV, IN 30mm φ HDPE	1.2 mm-5P OPEV, IN 30mm φ HDPE	1.2 mm-5P OPEV, IN 30mm φ HDPE	FROM TO
SPARE CONDUIT		1- 30mm φ HDPE	1- 30 mm φ HDPE	2- 30 mm φ HDPE	2- 30 mm φ HDPE	2- 30 mm HDPE	1- 30 mm HDPE	1- 30 mm HDPE	2- 30 mm HDPE



REV NO	DATE	DESCRIPTION	BY	APP

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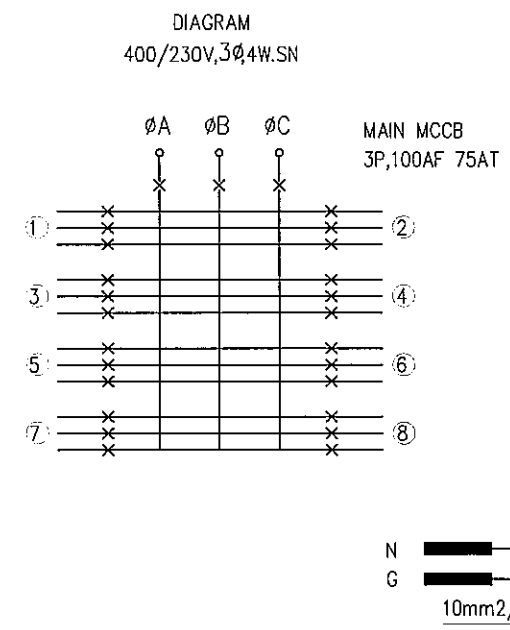
CAI MEP - THI VAI INTERNATIONAL PORT
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PACKAGE 2
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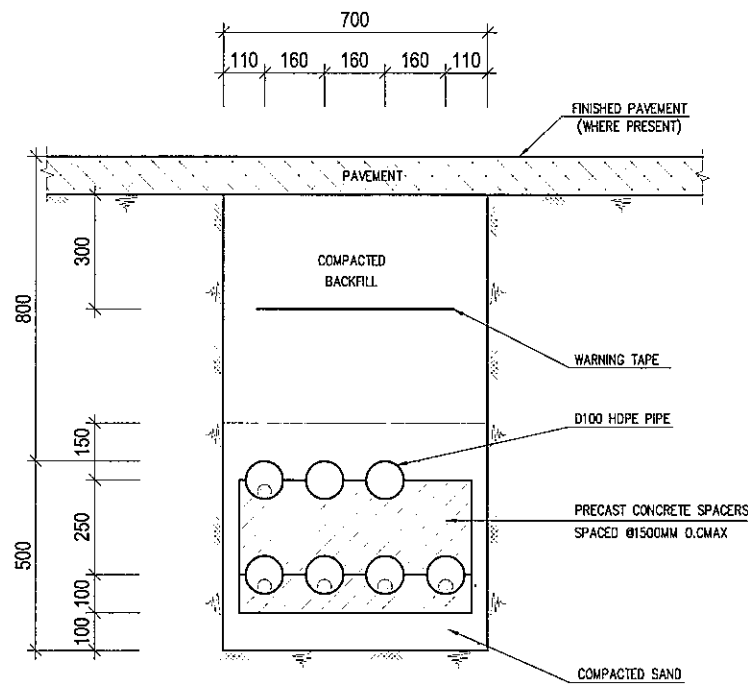
DESIGNED BY: TOYOSHIMA Y.
 DRAWN BY: DO THI VINH
 CHECKED BY: NAGAO N.
 APPROVED BY: NAGAI K.
 ISSUE DATE: 10/ JAN/ 2006
 SCALE: -

SECTION: ELECTRIC WORKS
 SUB-SECTION: POWER SUPPLY AND COMMUNICATION SYSTEM
 TITLE OF DRAWING: COMMUNICATION LAYOUT
 DWG NO: PAC2-TV-UTY-E-1-007
 REV. NO

PANEL SCHEDULE S/O BOARD-01					LOCATION: LCC-3 CONTAINER YARD MOUNTING: SELF STANDING (OUT DOOR)			
CKT No.	WIRE SIZE (mm ²)	LOAD IN VA			DESCRIPTION	BREAKER SIZE		
		φ A	φ B	φ C		POLE	AF	AT
①	3-25-50mm φ CONDUIT	5000	5000	5000	2-S/O FOR CRANE	3	100	30
②	3-25-50mm φ CONDUIT	5000	5000	5000	2-S/O FOR CRANE	↑	↑	↑
③	3-25-50mm φ CONDUIT	5000	5000	5000	2-S/O FOR CRANE	↑	↑	↑
④	3-25-50mm φ CONDUIT	5000	5000	5000	2-S/O FOR CRANE	↑	↑	↑
⑤	3-6-30mm φ CONDUIT	3600	3600	3600	2-1.5 KW DRAINAGE PUMP	↓	↓	↓
⑥	3-6-30mm φ CONDUIT	3600	3600	3600	2-1.5 KW DRAINAGE PUMP	↓	↓	↓
⑦					SPACE			
⑧					SPACE			
TOTAL		27200	27200	27200	CONNECTED LOAD = 32640 = 47A			
		DEMAND 40% 32640			MAIN FEEDER 3c-35+1c-25mm ² -80mm φ CONDUIT			

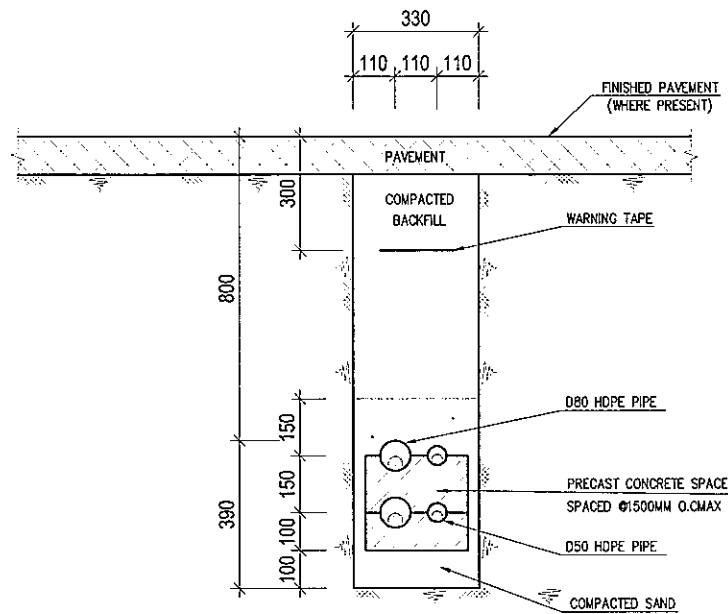


		THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT		DESIGNED BY: TOYOSHIMA Y. DRAWN BY: DO THI VINH CHECKED BY: NAGAO N. APPROVED BY: NAGAI K.		SECTION: ELECTRIC WORKS SUB-SECTION: POWER SUPPLY AND COMMUNICATION SYSTEM TITLE OF DRAWING: SOCKET OUTLET BOARD SCHEDULE	
				PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA		ISSUE DATE: 22/ AUG/ 2005 SCALE: --		DWG NO: PAC2-TV-UTY-E-1-008 REV. NO	
REV NO	DATE	DESCRIPTION	BY	APP					

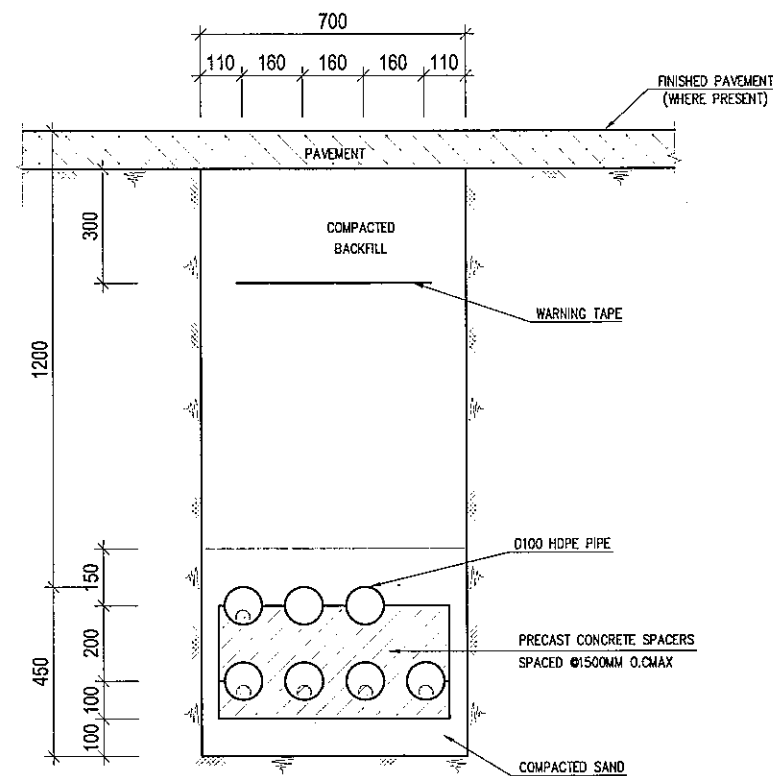


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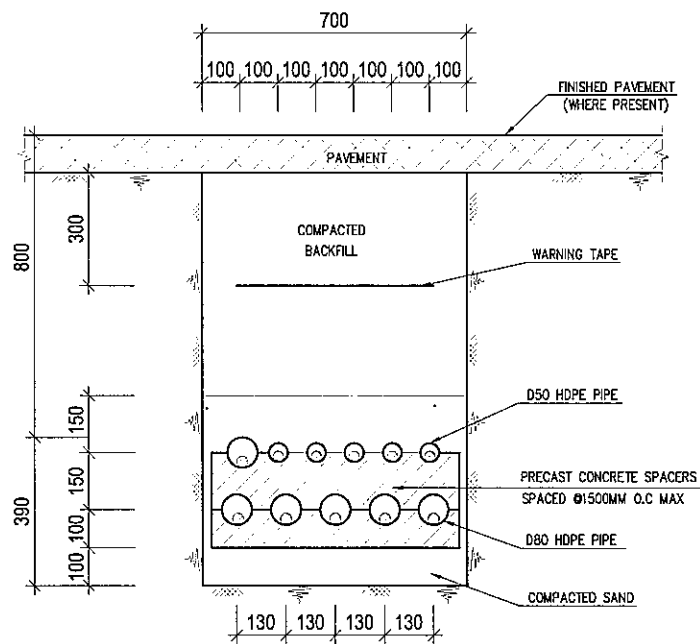
TYPICAL CABLE TRENCH FOR ELECTRICAL WORK 22KV AND 6.6KV



TYPE-C

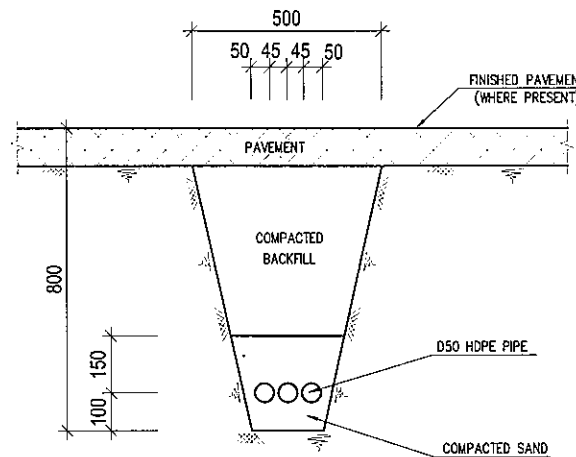


TYPE-D

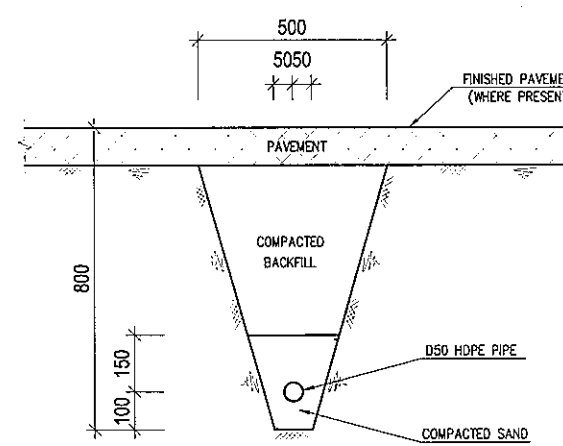


TYPE - A

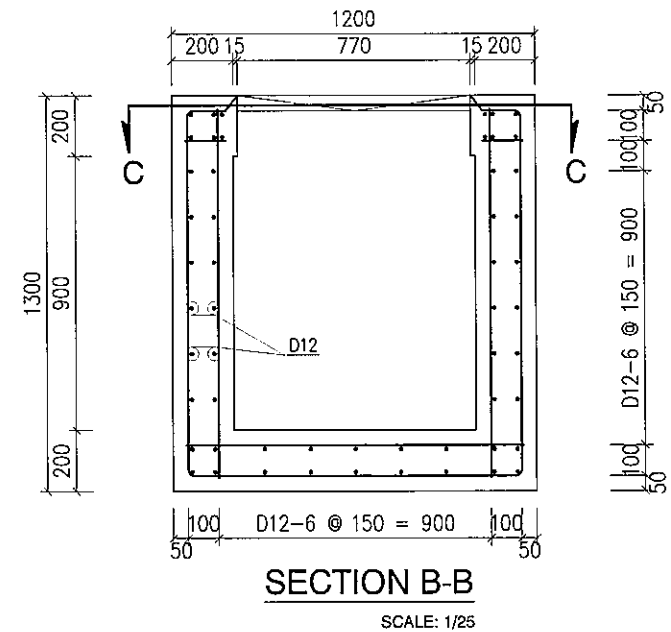
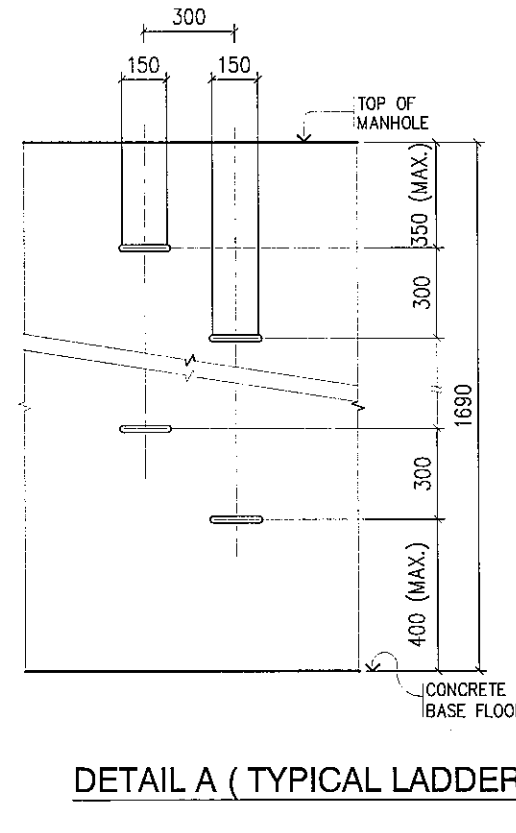
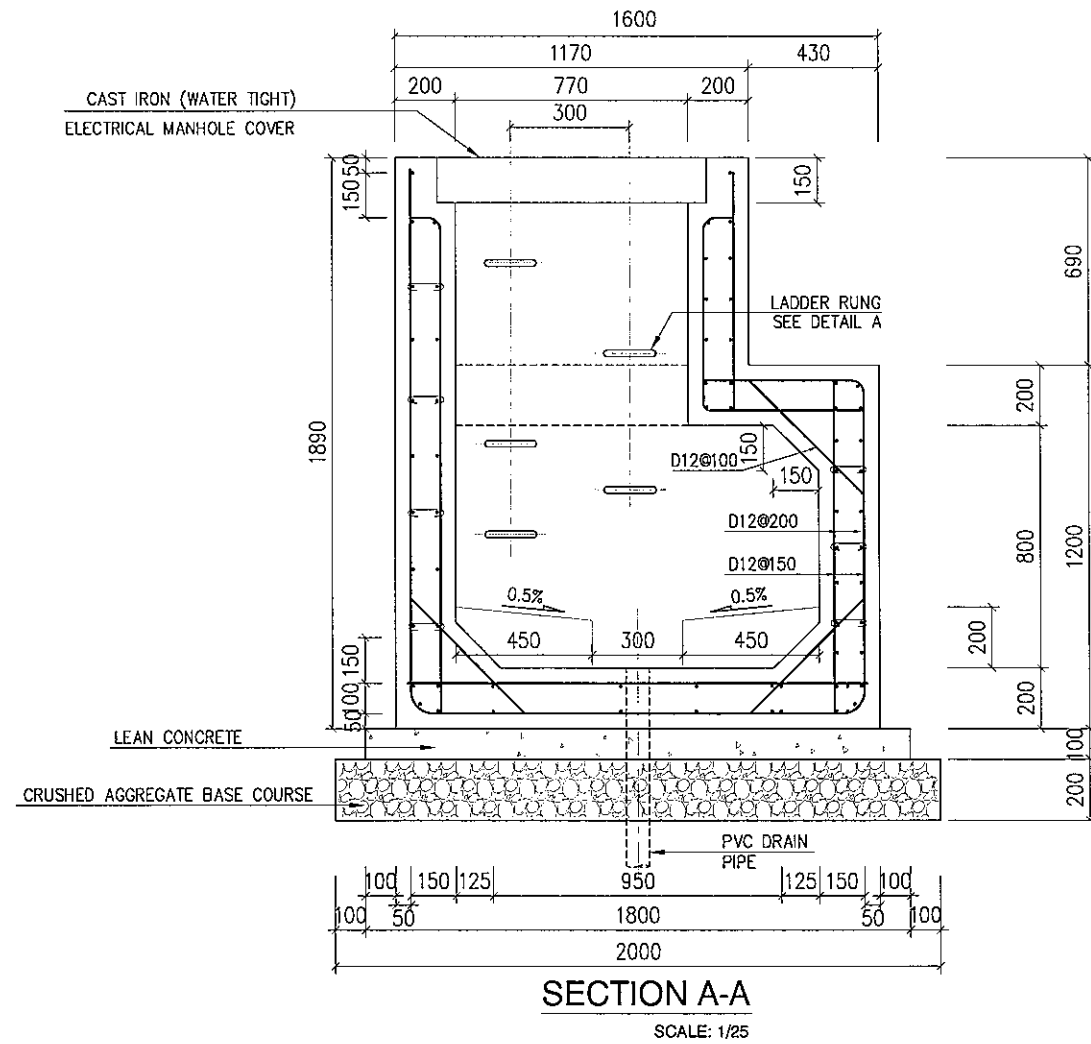
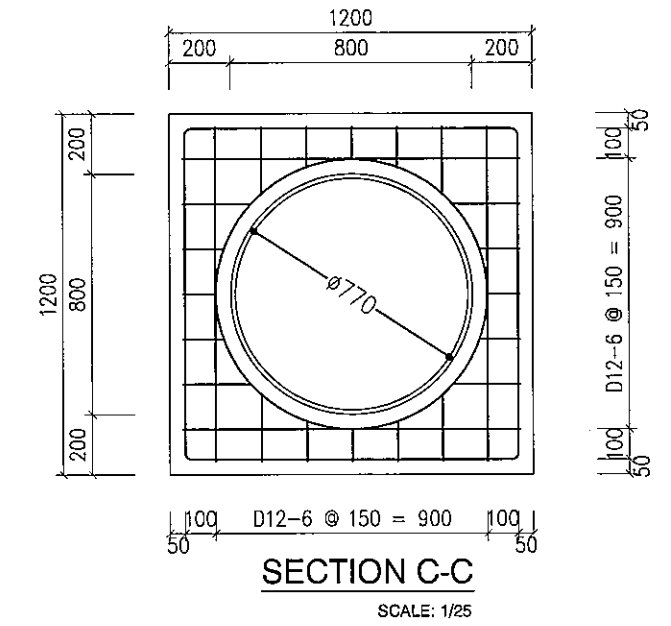
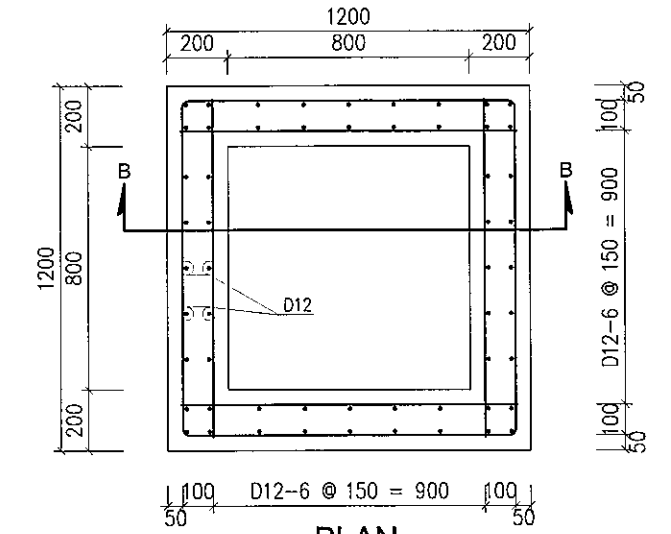
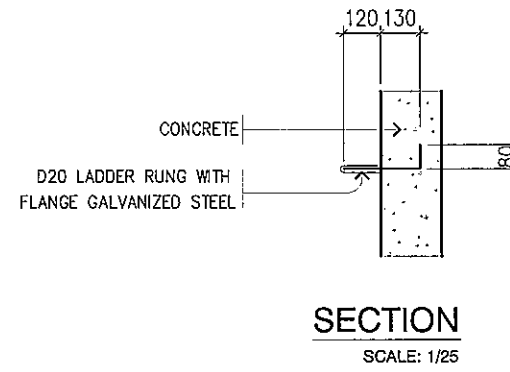
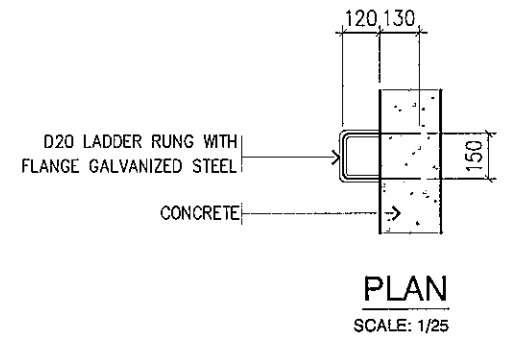
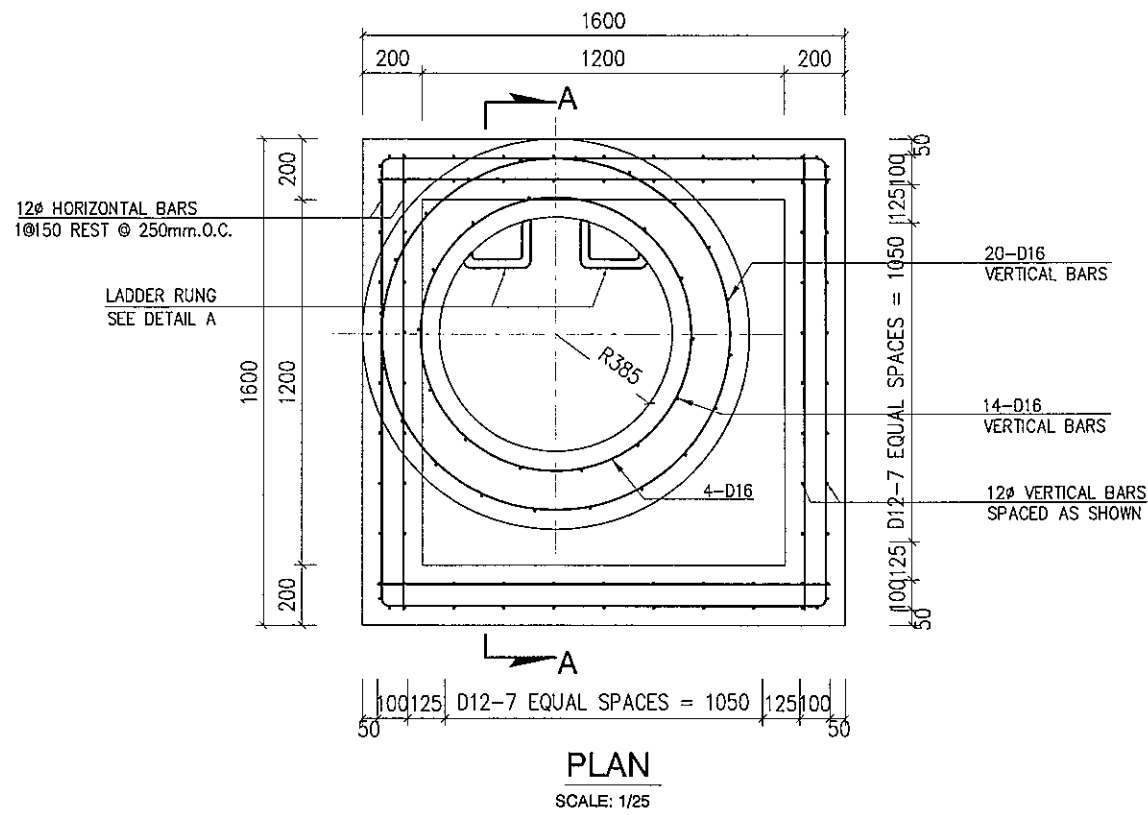
TYPICAL CABLE TRENCH FOR ELECTRICAL WORK 0.4KV



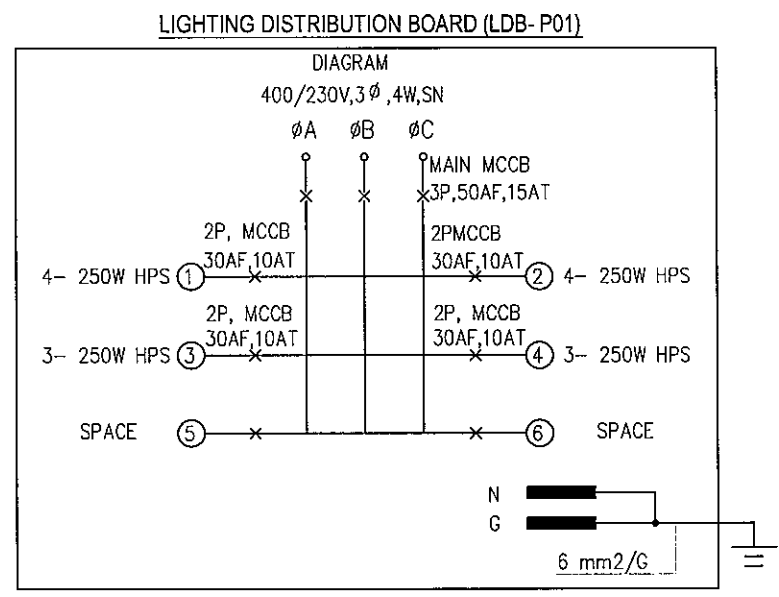
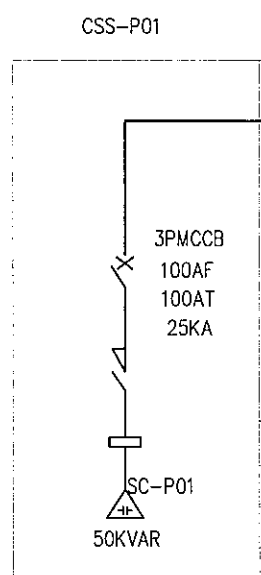
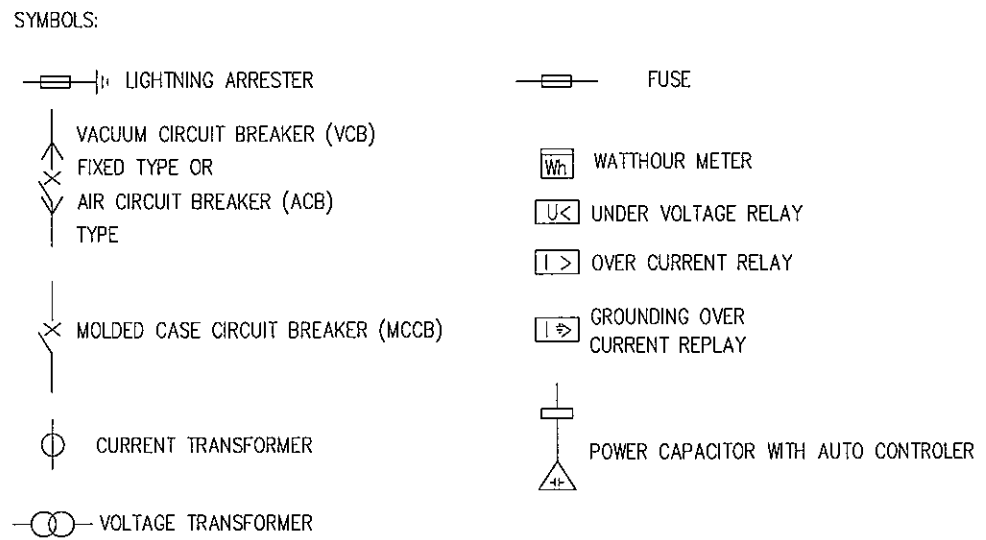
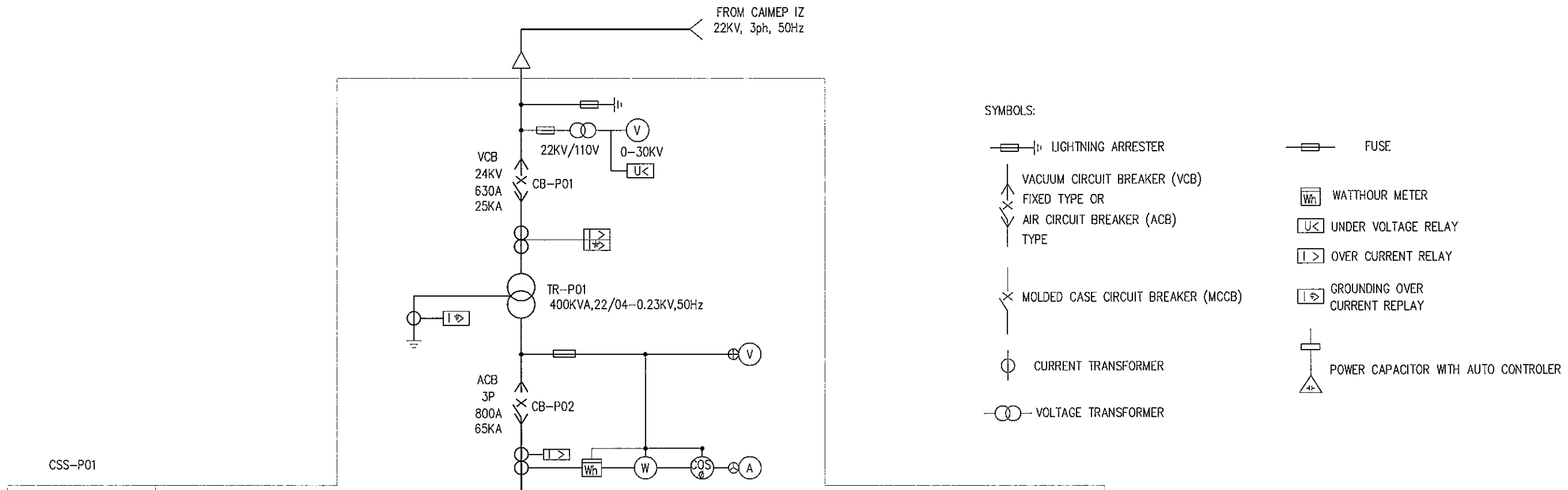
TYPICAL CABLE TRENCH FOR COMMUNICATIONS



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: 1:20		SECTION: ELECTRIC WORKS SUB-SECTION: POWER SUPPLY AND COMMUNICATION SYSTEM TITLE OF DRAWING: ELECTRICAL CABLE TRENCH DETAILS DWG NO: PAC2-TV-UTY-E-1-009 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						



		THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT		DESIGNED BY: TOYOSHIMA Y.		SECTION: ELECTRIC WORKS	
		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		DRAWN BY: DO THI VINH		SUB-SECTION: POWER SUPPLY AND COMMUNICATION SYSTEM	
						CHECKED BY: NAGAO N.		TITLE OF DRAWING: ELECTRICAL MANHOLE AND HANDHOLE	
						APPROVED BY: NAGAI K.		DWG NO: PAC2-TV-UTY-E-1-010	
REV NO		DATE		DESCRIPTION		ISSUE DATE: 22/ AUG/ 2005		SCALE: 1: 25	
								REV. NO	

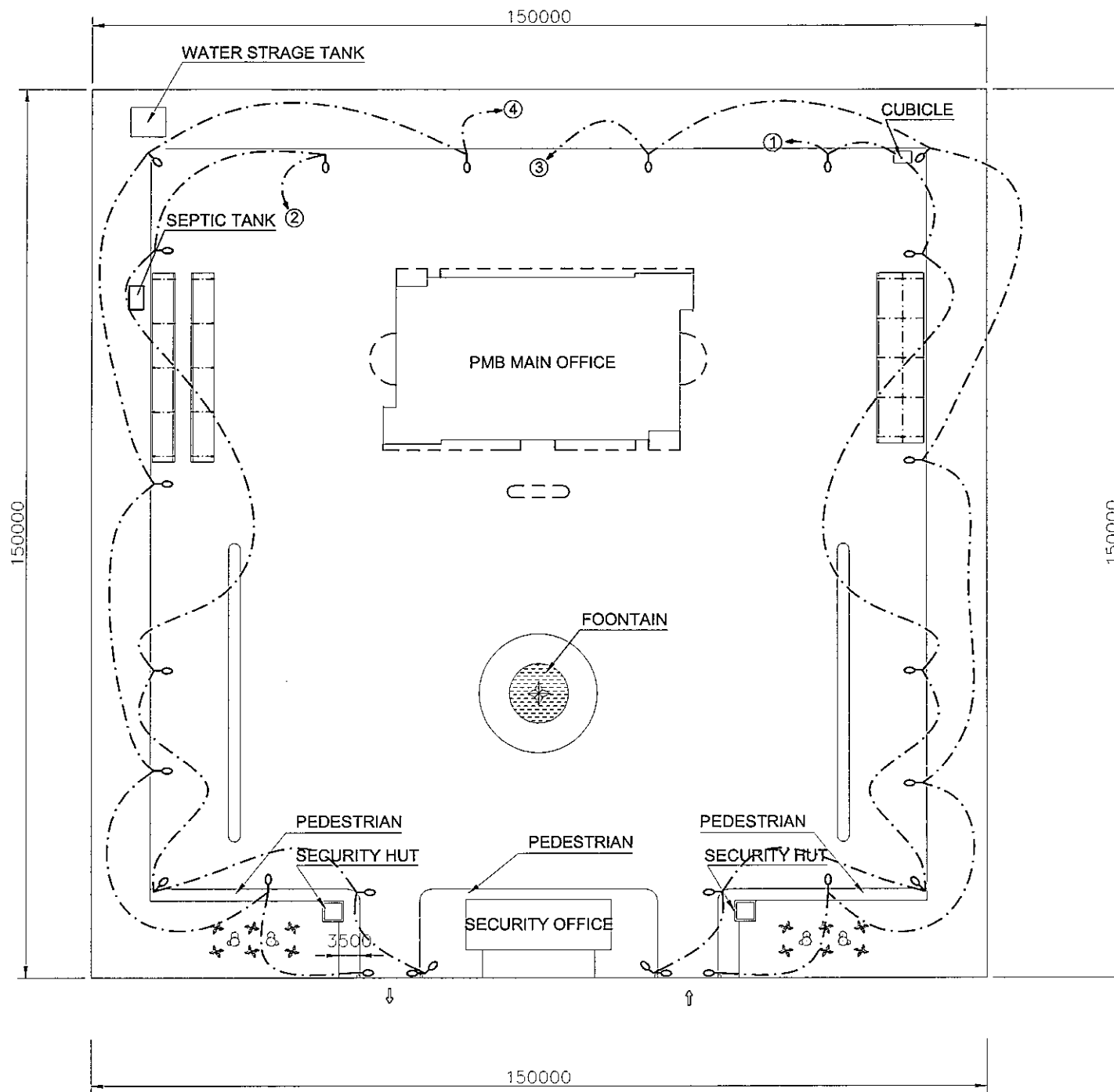


TO BUILDING	PMB MAIN OFFICE	(3-150mm ² +1-95mm ²) IN-1-100mm ϕ HDPE PIPE	PMB MAIN OFFICE	(3-50mm ² +1-35mm ²) IN-80mm ϕ HDPE PIPE	EXTERIOR LIGHTING	FOR EMERGENCY GENERATOR FEEDER
EL (KVA)		1		70	1	
OL (KVA)		190		1	5	

NOTE:

OL: ORDINARY LOAD
 EL: EMERGENCY LOAD
 HPS: HIGH PRESSURE SODIUM VAPOR LAMP
 LDB P-01: INSTALLED WITHIN CSS-P01

THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85					CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT					DESIGNED BY: TOYOSHIMA Y.		SECTION: ELECTRIC WORKS																											
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					DRAWN BY: DO THI VINH		SUB-SECTION: PMB MAIN OFFICE COMPACT SUBSTATION																											
										CHECKED BY: NAGAO N.		TITLE OF DRAWING: POWER SUPPLY SINGLE LINE DIAGAM FOR PMB MAIN OFFICE																											
										APPROVED BY: NAGAI K.		DWG NO: PAC2-TV-UTY-E-1-011																											
REV NO					DATE					DESCRIPTION					BY					APP					SCALE: --					ISSUE DATE: 20/ AUG/ 2005					REV. NO				



SCALE 1:1000

THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85					CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT					DESIGNED BY: TOYOSHIMA Y.		SECTION: ELECTRIC WORKS	
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					DRAWN BY: DO THI MINH		SUB-SECTION: PMB MAIN OFFICE	
										CHECKED BY: NAGAO N.		TITLE OF DRAWING: EXTERIOR LIGHTING LAYOUT FOR PMB MAIN OFFICE	
										APPROVED BY: NAGAI K.		DWG NO: PAC1-TV-UTY-E-1-012	
REV NO DATE DESCRIPTION BY APP										ISSUE DATE: 10/ JAN/ 2008		SCALE: 1: 75	
												REV. NO	