JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PEOPLE'S COMMITTEE OF HO CHI MINH CITY (PCHCMC) MINISTRY OF PLANNING AND INVESTMENT (MPI) THE SOCIALIST REPUBLIC OF VIET NAM

THE DETAILED DESIGN STUDY

ON

HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT

IN

THE SOCIALIST REPUBLIC OF VIET NAM

FINAL REPORT

DRAFT BIDDING DOCUMENTS

PACKAGE E : WASTEWATER TREATMENT PLANT CONSTRUCTION

> VOLUME 3 : DRAFT TENDER DRAWINGS (2/3) [ARCHITECT]

> > **JUNE 2001**

PACIFIC CONSULTANTS INTERNATIONAL

LIST OF DRAWINGS ON PACKAGE E WASTEWATER TREATMENT PLANT- ARCHITECTURAL WORK

		STEWATER TREATM			
DRAWING NO.	TITLE	SCALE	DRAWING NO.	TITLE	SCALE
			PE-WWTP-302-05	SECTION A-A (FUTURE)	1/100
	GENERAL INFORMATION		PE-WWTP-302-06	ELEVATION LINE A & D (FIRST STAGE)	1/100
PE-WWTP-310-01	LOUVER AND WINDOW DETAILS	AS SHOWN	PE-WWTP-302-07	ELEVATION LINE A & D (FUTURE)	1/100
PE-WWTP-310-02	DOOR DETAILS	AS SHOWN	PE-WWTP-302-08	ELEVATION LINE 1	1/100
PE-WWTP-310-03	DOOR AND WINDOW SCHEDULE	AS SHOWN	PE-WWTP-302-09	ROOF PLAN	1/100
PE-WWTP-310-04	FINISH SCHEDULE	N.T.S	PE-WWTP-302-10	BUILDING DETAILS	AS SHOWN
PE-WWTP-310-05(1)	GENERAL INFORMATION (1/2)	N.T.S	PE-WWTP-302-11	STAIR DETAILS	AS SHOWN
PE-WWTP-310-05(2)	GENERAL INFORMATION (2/2)	N.T.S	PE-WWTP-302-12	RC WALL, COLUMN & ROOF WALL DETAILS	AS SHOWN
PE-WWTP-310-06	DETAILS OF PILE $300X300$, L = $35M$	AS SHOWN	PE-WWTP-302-13	ROOF FRAMING PLAN	AS SHOWN
PE-WWTP-310-07	GROUND FLOOR SLAB DETAILS	AS SHOWN	PE-WWTP-302-14	PIER, STAIR PLAN AND DETAILS	AS SHOWN
PE-WWTP-310-08	LINTEL SCHEDULE	AS SHOWN	PE-WWTP-302-15	MECHANICAL PLAN (FIRST STAGE)	AS SHOWN
PE-WWTP-310-09	VENTILATION & A/C SYSTEM – LEGENDS & INSTALLATION DETAILS	AS SHOWN	PE-WWTP-302-16	MECHANICAL PLAN (FUTURE)	AS SHOWN
PE-WWTP-310-10	VENTILATION & A/C SYSTEM – DUCTWORK DETAILS	AS SHOWN	PE-WWTP-302-17	MECHANICAL SECTION	AS SHOWN
PE-WWTP-310-11	PLUMBING & DRAINAGE SYSTEM – LEGEND, GENERAL NOTES & DETAILS	AS SHOWN	PE-WWTP-302-18	ELECTRICAL PLAN (FIRST STAGE)	AS SHOWN
PE-WWTP-310-12	PLUMBING & DRAINAGE SYSTEM – GENERAL DETAILS	AS SHOWN	PE-WWTP-302-19	ELECTRICAL PLAN (FUTURE)	AS SHOWN
PE-WWTP-310-13	PLUMBING & DRAINAGE SYSTEM – TYPICAL DETAILS	AS SHOWN	PE-WWTP-302-20	ELECTRICAL DIAGRAM	AS SHOWN
PE-WWTP-310-14	ELECTRICAL DETAILS (1/2)	AS SHOWN	PE-WWTP-302-21	FIRE ALARM PLAN	AS SHOWN
PE-WWTP-310-14 PE-WWTP-310-15	ELECTRICAL DETAILS (1/2) ELECTRICAL DETAILS (2/2)	AS SHOWN	PE-WWTP-302-22	PLUMBING AND DRAINAGE PLAN	AS SHOWN
PE-WWIP-510-15	ELECTRICAL DETAILS (2/2)	AS SHOWN	1 L- W W 11 502 22		
	LIFT PUMPING STATION			MAIN OFFICE BUILDING	
PE-WWTP-300-01	FIRST FLOOR PLAN	1/100	PE-WWTP-303-01	FIRST FLOOR PLAN	1/100
PE-WWTP-300-02	ROOF PLAN	1/100	PE-WWTP-303-02	SECOND FLOOR PLAN	1/100
PE-WWTP-300-02	SECTION A-A & B-B	1/100	PE-WWTP-303-03	ROOF PLAN	1/100
PE-WWTP-300-04	ELEVATION LINE 1 & 5	1/100	PE-WWTP-303-04	SECTION A-A, B-B	1/100
PE-WWTP-300-04	ELEVATION LINE A & D	1/100	PE-WWTP-303-05	SECTION C-C, D-D	1/100
PE-WWTP-300-06	BUILDING DETAILS	AS SHOWN	PE-WWTP-303-06	ELEVATION LINE A & D	1/100
		AS SHOWN	PE-WWTP-303-07	ELEVATION LINE 1 & 6	1/100
PE-WWTP-300-07	STRUCTURE PLAN AND DETAILS	AS SHOWN	PE-WWTP-303-08	CEILING PLAN – FIRST FLOOR	1/100
PE-WWTP-300-08	MECHANICAL PLAN		PE-WWTP-303-09	CEILING PLAN – FIRST PLOOR	1/100
PE-WWTP-300-09	ELECTRICAL PLAN	AS SHOWN	PE-WWTP-303-10	STAIR DETAILS	AS SHOWN
PE-WWTP-300-10	ELECTRICAL DIAGRAM	AS SHOWN	PE-WWTP-303-10 PE-WWTP-303-11		AS SHOWN
PE-WWTP-300-11	FIRE ALARM PLAN	AS SHOWN		BUILDING DETAILS	AS SHOWN
PE-WWTP-300-12	LIGHTING OF LIFT PUMPING STATION PLAN (No. 2) B1F	1/100	PE-WWTP-303-12	TOILET DETAILS – WC01	
			PE-WWTP-303-13	TOILET DETAILS - WC02	AS SHOWN
	CHLORINE STORAGE BUILDING		PE-WWTP-303-14	STRUCTURE PLAN OF SLAB & BEAMS (SECOND FLOOR)	AS SHOWN
PE-WWTP-301-01	FIRST FLOOR PLAN	1/100	PE-WWTP-303-15	DETAILS OF COLUMN AND BEAMS (SECOND FLOOR)	AS SHOWN
PE-WWTP-301-02	ROOF PLAN	1/100	PE-WWTP-303-16	DETAILS OF BEAMS (SECOND FLOOR)	AS SHOWN
PE-WWTP-301-03	SECTION A-A, B-B & C-C	1/100	PE-WWTP-303-17	STRUCTURE PLAN OF ROOF SLAB AND BEAMS	AS SHOWN
PE-WWTP-301-04	ELEVATION LINE 1 & 6	1/100	PE-WWTP-303-18	DETAILS OF ROOF BEAMS	AS SHOWN
PE-WWTP-301-05	ELEVATION LINE A & D	1/100	PE-WWTP-303-19	DETAILS OF ROOF WALL	AS SHOWN
PE-WWTP-301-06	STAIR DETAILS	AS SHOWN	PE-WWTP-303-20	STRUCTURE PLAN AND DETAIL OF STAIRCASE	AS SHOWN
PE-WWTP-301-07	BUILDING DETAILS	AS SHOWN	PE-WWTP-303-21	STRUCTURE PLAN AND DETAIL OF SUB-COLUMNS	AS SHOWN
PE-WWTP-301-08	STRUCTURE PLAN AND DETAILS OF ROOF BEAMS	AS SHOWN	PE-WWTP-303-22	MECHANICAL PLAN – FIRST FLOOR	AS SHOWN
PE-WWTP-301-09	DETAILS OF BRACING BEAMS AND STAIR	AS SHOWN	PE-WWTP-303-23	MECHANICAL PLAN – SECOND FLOOR	AS SHOWN
PE-WWTP-301-10	MECHANICAL PLAN	AS SHOWN	PE-WWTP-303-24	MECHANICAL SECTION	AS SHOWN
PE-WWTP-301-11	MECHANICAL SECTION	AS SHOWN	PE-WWTP-303-25	LIGHTING LAYOUT PLAN – FIRST FLOOR	AS SHOWN
PE-WWTP-301-12	ELECTRICAL PLAN AND DIAGRAM	AS SHOWN	PE-WWTP-303-26	LIGHTING LAYOUT PLAN SECOND FLOOR	AS SHOWN
PE-WWTP-301-13	FIRE ALARM PLAN	AS SHOWN	PE-WWTP-303-27	SOCKET LAYOUT – FIRST FLOOR	AS SHOWN
PE-WWTP-301-14	PLUMBING AND DRAINAGE PLAN	AS SHOWN	PE-WWTP-303-28	SOCKET LAYOUT – SECOND FLOOR	AS SHOWN
		-	PE-WWTP-303-29	ELECTRICAL DIAGRAM	AS SHOWN
	BLOWER BUILDING		PE-WWTP-303-30	FIRE ALARM PLAN – FIRST FLOOR	AS SHOWN
PE-WWTP-302-01	FIRST FLOOR PLAN (FIRST STAGE)	1/100	PE-WWTP-303-31	FIRE ALARM PLAN – SECOND FLOOR	AS SHOWN
PE-WWTP-302-02	FIRST FLOOR PLAN (FUTURE)	1/100	PE-WWTP-303-32	PLUMBING AND DRAINAGE PLAN – FIRST FLOOR	AS SHOWN
PE-WWTP-302-02	SECTION B-B	I/100	PE-WWTP-303-33	PLUMBING AND DRAINAGE PLAN – SECOND FLOOR	AS SHOWN
PE-WWTP-302-04	SECTION A-A (FIRST STAGE)	1/100			

DRAWING NO.	TITLE	SCALE	DRAWING NO.	TITLE
PE-WWTP-304-01	DEWATERING BUILDING FIRST FLOOR PLAN (1/2)	1/100	PE-WWTP-305-21	SECOND FERMENTATIO
PE-WWTP-304-02	FIRST FLOOR PLAN (2/2)	1/100	PE-WWTP-305-22	PARTIAL FLOOR FLAN (1/2)
PE-WWTP-304-02 PE-WWTP-304-03	FIRST FLOOR PLAN (UPPER-1/2)	1/100	PE-WWTP-305-22	ELEVATION LINE A
PE-WWTP-304-03	FIRST FLOOR PLAN (UPPER-2/2)	1/100	PE-WWTP-305-24	ELEVATION LINE 1
		1/100	PE-WWTP-305-25	
PE-WWTP-304-05	SECOND FLOOR PLAN (1/2) SECOND FLOOR PLAN (2/2)	1/100	PE-WWTP-305-26	LONGITUDINAL SECTION
PE-WWTP-304-06	SECOND FLOOR FLAN (2/2)	1/100	PE-WWTP-305-26	CROSS SECTION ROOF PLAN
PE-WWTP-304-07 PE-WWTP-304-08	SECTION A-A SECTION B-B	1/100	PE-WWTP-305-27	STEEL COLUMN PLAN & COLUMN DETAILS
		1/100	PE-WWTP-305-28	
PE-WWTP-304-09	SECTION C-C (1/2)			ROOF FRAMING PLAN & ROOF DETAILS
PE-WWTP-304-10	SECTION C-C (2/2)	1/100 1/100	PE-WWTP-305-30	CROSS SECTION, END WALL ELEVATION, CANOPY D
PE-WWTP-304-11	ELEVATION LINE E (1/2)		PE-WWTP-305-31	SIDE WALL ELEVATION & FRAMINGS
PE-WWTP-304-12	ELEVATION LINE E (2/2)	1/100	PE-WWTP-305-32	PLAN OF FOUNDATION, COLUMNS, GROUND BEAMS
PE-WWTP-304-13	ELEVATION LINE A (1/2)	1/100	PE-WWTP-305-33	DETAILS OF FOUNDATION, COLUMNS, GROUND BEA
PE-WWTP-304-14	ELEVATION LINE A (2/2)	1/100	PE-WWTP-305-34	PLAN OF RC. WALL
PE-WWTP-304-15	ELEVATION LINE 1	AS SHOWN	PE-WWTP-305-35	DETAILS OF GROUND FLOOR SLAB, BEAMS
PE-WWTP-304-16	ROOF PLAN	AS SHOWN	PE-WWTP-305-36	LIGHTING LAYOUT PLAN (1/2)
PE-WWTP-304-17	STAIR DETAILS (1/2)	AS SHOWN	PE-WWTP-305-37	LIGHTING LAYOUT PLAN (2/2)
PE-WWTP-304-18	STAIR DETAILS (2/2)	AS SHOWN	PE-WWTP-305-38	PLUMBING PLAN
PE-WWTP-304-19	TOILET DETAILS	AS SHOWN		
PE-WWTP-304-20	TANK DETAILS	AS SHOWN		STORAGE VESSI
PE-WWTP-304-21	SECOND FLOOR FRAMING PLAN	AS SHOWN	PE-WWTP-305-41	PARTIAL FLOOR PLAN (1/2), PARTIAL ELEVATION (1,
PE-WWTP-304-22	LEVEL 2 BEAM DETAILS	AS SHOWN	PE-WWTP-305-42	PARTIAL FLOOR PLAN (2/2), PARTIAL ELEVATION (2)
PE-WWTP-304-23	DETAIL OF COLUMN & ROOF	AS SHOWN	PE-WWTP-305-43	SECTION A-A, ELEVATION LINE 9
PE-WWTP-304-24	MISCELLANEOUS DETAILS	AS SHOWN	PE-WWTP-305-44	SECTION B-B
PE-WWTP-304-25	STAIR DETAILS (STRUCTURE)	AS SHOWN	PE-WWTP-305-45	PLAN OF FOUNDATION, COLUMNS, GROUND BEAMS
PE-WWTP-304-26	MECHANICAL PLAN (1/2) – FIRST FLOOR	AS SHOWN	PE-WWTP-305-46	DETAILS OF FOUNDATION, COLUMNS, GROUND BEA
PE-WWTP-304-27	MECHANICAL PLAN (2/2) – FIRST FLOOR	AS SHOWN	PE-WWTP-305-47	PLAN & DETAIL OF RC. WALL, DETAIL OF GROUND I
PE-WWTP-304-28	MECHANICAL PLAN (1/2) – SECOND FLOOR	AS SHOWN	PE-WWTP-305-48	PLAN AND DETAIL OF ROOF BEAMS
PE-WWTP-304-29	MECHANICAL PLAN (2/2) – SECOND FLOOR	AS SHOWN	PE-WWTP-305-49	LIGHTING LAYOUT PLAN
PE-WWTP-304-30	MECHANICAL SECTION A-A	AS SHOWN	PE-WWTP-305-50	PLUMBING PLAN
PE-WWTP-304-31	MECHANICAL SECTION B-B	AS SHOWN		
PE-WWTP-304-32	ELECTRICAL DIAGRAM (1/2)	AS SHOWN		SUB-STORAGE VES
PE-WWTP-304-33	ELECTRICAL DIAGRAM (2/2)	AS SHOWN	PE-WWTP-305-61	FLOOR PLAN, ROOF PLAN, SECTIONS AND ELEVATION
PE-WWTP-304-34	ELECTRICAL PLAN – FIRST FLOOR	AS SHOWN	PE-WWTP-305-62	STEEL COLUMN PLAN, SECTIONS & DETAILS
PE-WWTP-304-35	ELECTRICAL PLAN – SECOND FLOOR	AS SHOWN	PE-WWTP-305-63	PLANS & DETAILS OF FOUNDATION, COLUMNS, GRO
PE-WWTP-304-36	FIRE ALARM PLAN (1/2) – FIRST FLOOR	AS SHOWN	PE-WWTP-305-64	DETAIL OF FOUNDATION, COLUMNS
PE-WWTP-304-37	FIRE ALARM PLAN (2/2) – FIRST FLOOR	AS SHOWN	PE-WWTP-305-65	LIGHTING LAYOUT PLAN AND PLUMBING PLAN
PE-WWTP-304-38	FIRE ALARM PLAN – SECOND FLOOR	AS SHOWN		
PE-WWTP-304-39	PLUMBING AND DRAINAGE PLAN – FIRST FLOOR	AS SHOWN		COMPOST CONTROL B
PE-WWTP-304-40	PLUMBING AND DRAINAGE PLAN – SECOND FLOOR	AS SHOWN	PE-WWTP-305-81	FIRST FLOOR PLAN, ROOF PLAN
			PE-WWTP-305-82	SECTION A-A, B-B & C-C
	FIRST FERMENTATION TANK		PE-WWTP-305-83	ELEVATION LINE 1 & 11
PE-WWTP-305-01	PARTIAL FIRST FLOOR PLAN (1/2)	1/100	PE-WWTP-305-84	ELEVATION LINE A & C
PE-WWTP-305-02	PARTIAL FIRST FLOOR PLAN (2/2)	1/100	PE-WWTP-305-85	BUILDING AND STAIR DETAILS
PE-WWTP-305-03	PARTIAL ELEVATION LINE A	1/100	PE-WWTP-305-86	TOILET DETAILS, WC01
PE-WWTP-305-04	PARTIAL ELEVATION LINE 1	1/100	PE-WWTP-305-87	PLAN OF FOUNDATION, COLUMNS AND GROUND BE
PE-WWTP-305-05	CROSS SECTION	1/100	PE-WWTP-305-88	DETAIL OF FOUNDATION, COLUMNS AND GROUND
PE-WWTP-305-06	LONGITUDINAL SECTION	1/100	PE-WWTP-305-89	DETAILS OF FOUNDATION M2
PE-WWTP-305-07	ROOF PLAN	1/100	PE-WWTP-305-90	PLAN AND DETAILS OF ROOF BEAMS
PE-WWTP-305-08	STEEL COLUMN PLAN & COLUMN DETAILS	AS SHOWN	PE-WWTP-305-91	MECHANICAL PLAN
PE-WWTP-305-09	ROOF FRAMING PLAN & ROOF DETAILS	AS SHOWN	PE-WWTP-305-92	ELECTRICAL PLAN
PE-WWTP-305-10	CROSS SECTION, END WALL ELEVATION, CANOPY DETAILS	AS SHOWN	PE-WWTP-305-93	FIRE ALARM PLAN
PE-WWTP-305-11	SIDE WALL ELEVATION & FRAMINGS	AS SHOWN	PE-WWTP-305-94	PLUMBING AND DRAINAGE PLAN
PE-WWTP-305-12	LIGHTING LAYOUT PLAN	AS SHOWN		

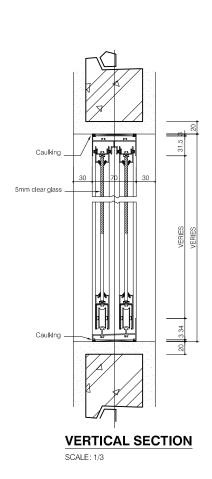
TITLE	SCALE
ERMENTATION TANK	
	1/100
	1/100
	1/100
	1/100
	1/100
	1/100
	1/100
AILS	AS SHOWN
S	AS SHOWN
N, CANOPY DETAILS	AS SHOWN
A, CAROI I DEIAILS	AS SHOWN
OUND BEAMS	AS SHOWN
GROUND BEAMS	AS SHOWN
GROUND BEAMS	AS SHOWN
AMS	AS SHOWN
AMB	AS SHOWN
	AS SHOWN
	AS SHOWN AS SHOWN
	ASSHOWN
ND A OF MESSEL	1
DRAGE VESSEL	1/100
LEVATION (1/2)	1/100
LEVATION (2/2)	1/100
	1/100
	1/100
OUND BEAMS	AS SHOWN
GROUND BEAMS	AS SHOWN
OF GROUND BEAMS	AS SHOWN
TORAGE VESSEL	1 1
ND ELEVATIONS	1/100
TAILS	AS SHOWN
DLUMNS, GROUND BEAMS & RC WALL	AS SHOWN
	AS SHOWN
NG PLAN	AS SHOWN
	1
CONTROL BUILDING	
	1/100
	1/100
	1/100
	1/100
	1/100
	AS SHOWN
O GROUND BEAMS	AS SHOWN
ND GROUND BEAMS	AS SHOWN

DRAWING NO.	TITLE	SCALE	DRAWING NO.	TITLE
PE-WWTP-306-01	GUARD HOUSE PLANS, ELEVATIONS, SECTIONS	1/100	PE-WWTP-307-01	VENTILATION FACILITY (1/27) PIPE GALLERY PLAN
PE-WWTP-306-02	BUILDING & STAIR DETAILS	AS SHOWN	PE-WWTP-307-01	VENTILATION FACILITY (1/27) PIPE GALLER I PLAN
PE-WWTP-306-02	PLAN & DETAILS OF FOUNDATION	AS SHOWN	PE-WWTP-307-02	VENTILATION FACILITY (3/27) VENTILATION AIR FE
PE-WWTP-306-04	PLAN & DETAILS OF ROOF BEAMS, GROUND BEAMS AND COLUMNS	AS SHOWN	12-007-03	VENTILATION FACILITY (5/27) SEDIMENTATION TAI
PE-WWTP-306-05	ELECTRICAL AND A/C LAYOUT PLAN	AS SHOWN	PE-WWTP-307-04	VENTILATION FACILITY (4/27) SEDIMENTATION TAN
PE-WWTP-306-06	PLUMBING AND DRAINAGE PLAN	AS SHOWN		
			PE-WWTP-307-05	VENTILATION FACILITY (5/27) SEDIMENTATION TAN
	STAIRCASE A		PE-WWTP-307-06	VENTILATION FACILITY (6/27) CHLORINE STORAGE
PE-WWTP-306-21	PLANS, ELEVATIONS, SECTIONS	1/100	PE-WWTP-307-07	VENTILATION FACILITY (7/27) CHLORINE STORAGE
PE-WWTP-306-22	BUILDING & STAIR DETAILS	AS SHOWN	PE-WWTP-307-08	VENTILATION FACILITY (8/27) CHLORINE STORAGE
PE-WWTP-306-23	PLANS & DETAILS OF SECOND FLOOR & ROOF SLAB, BEAMS, COLUMNS	AS SHOWN	PE-WWTP-307-09	VENTILATION FACILITY (9/27) CHLORINE STORAGE
PE-WWTP-306-24	DETAILS OF SECOND FLOOR & ROOF BEAMS	AS SHOWN	PE-WWTP-307-10	VENTILATION FACILITY (10/27) CHLORINE STORAGE
PE-WWTP-306-25	STRUCTURE PLAN & DETAILS OF STAIRCASE	AS SHOWN	PE-WWTP-307-11	VENTILATION FACILITY (11/27) BLOWER BUILDING I
PE-WWTP-306-26	ELECTRICAL PLAN	AS SHOWN	PE-WWTP-307-12	VENTILATION FACILITY (12/27) BLOWER BUILDING I
			PE-WWTP-307-13	VENTILATION FACILITY (13/27) BLOWER BUILDING I
	STAIRCASE B		PE-WWTP-307-14	VENTILATION FACILITY (14/27) BLOWER BUILDING S
PE-WWTP-306-41	PLANS, SECTION A-A	1/100	PE-WWTP-307-15	VENTILATION FACILITY (15/27) MAIN BUILDING PLA
PE-WWTP-306-42	ROOF PLAN, ELEVATION LINE B & 5	1/100	PE-WWTP-307-16	VENTILATION FACILITY (16/27) MAIN BUILDING SEC
PE-WWTP-306-43	BUILDING AND STAIR DETAILS	AS SHOWN	PE-WWTP-307-17	VENTILATION FACILITY (17/27) DEWATERING and CE
PE-WWTP-306-44	PLANS & DETAILS OF SECOND FLOOR & ROOF SLAB, BEAMS, COLUMNS	AS SHOWN		PLAN (1/2)
PE-WWTP-306-45	DETAILS OF SECOND FLOOR & ROOF BEAMS	AS SHOWN	PE-WWTP-307-18	VENTILATION FACILITY (18/27) DEWATERING and CE
PE-WWTP-306-46	STRUCTURE PLAN & DETAILS OF STAIRCASE	AS SHOWN		PLAN (2/2)
PE-WWTP-306-47	ELECTRICAL PLAN	AS SHOWN	PE-WWTP-307-19	VENTILATION FACILITY (19/27) DEWATERING and CE
				SECTION (1/2)
	STAIRCASE C		PE-WWTP-307-20	VENTILATION FACILITY (20/27) DEWATERING and CE
PE-WWTP-306-61	PLANS, ELEVATIONS, SECTIONS	1/100		SECTION (2/2)
PE-WWTP-306-62	BUILDING & STAIR DETAILS	AS SHOWN	PE-WWTP-307-21	VENTILATION FACILITY (21/27) COMPOST PLANT BU
PE-WWTP-306-63	PLANS & DETAILS OF FIRST FLOOR & ROOF SLAB, BEAMS, COLUMNS	AS SHOWN	PE-WWTP-307-22	VENTILATION FACILITY (22/27) COMPOST PLANT BU
PE-WWTP-306-64	DETAILS OF FIRST FLOOR & ROOF BEAMS	AS SHOWN	PE-WWTP-307-23	VENTILATION FACILITY (23/27) LIFT PUMPING STATI
PE-WWTP-306-65	STRUCTURE PLAN & DETAILS OF STAIRCASE	AS SHOWN	PE-WWTP-307-24	VENTILATION FACILITY (24/27) LIFT PUMPING STAT
PE-WWTP-306-66	ELECTRICAL PLAN	AS SHOWN	PE-WWTP-307-25	VENTILATION FACILITY (25/27) LIFT PUMPING STAT
			PE-WWTP-307-26	VENTILATION FACILITY (26/27) MISCELLANEOUS DE
			PE-WWTP-307-27	VENTILATION FACILITY (27/27) MISCELLANEOUS DE

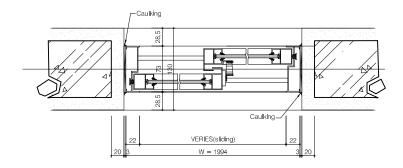
TITLE	SCALE
LATION FACILITY	1/1000
LLERY PLAN	1/1000
ATION AIR FLOW SHEET	1/200
NTATION TANK and AERATION TANK PLAN (1/2)	1/200
NTATION TANK and AERATION TANK PLAN (2/2)	1/200
VTATION TANK and AERATION TANK SECTION	1/200
VE STORAGE BUILDING PLAN (1/4)	1/100
E STORAGE BUILDING PLAN (2/4)	1/100
NE STORAGE BUILDING PLAN (3/4)	1/100
VE STORAGE BUILDING PLAN (4/4)	1/100
INE STORAGE BUILDING SECTION	1/100
R BUILDING PLAN (1/3)	1/100
R BUILDING PLAN (2/3)	1/100
R BUILDING PLAN (3/3)	1/100
R BUILDING SECTION	1/100
UILDING PLAN	1/100
BUILDING SECTION	1/100
ERING and CENTRIFUGAL THICKENER BUILDING	1/200
ERING and CENTRIFUGAL THICKENER BUILDING	1/200
ERING and CENTRIFUGAL THICKENER BUILDING	1/100
ERING and CENTRIFUGAL THICKENER BUILDING	1/100
ST PLANT BUILDING PLAN (1/2)	1/100
ST PLANT BUILDING PLAN (2/2)	1/100
MPING STATION PLAN (1/2)	1/200
MPING STATION PLAN (2/2)	1/100, 1/200
MPING STATION SECTION	1/100
LANEOUS DETAIL (1/2)	N.T.S
LANEOUS DETAIL (2/2)	N.T.S

General information

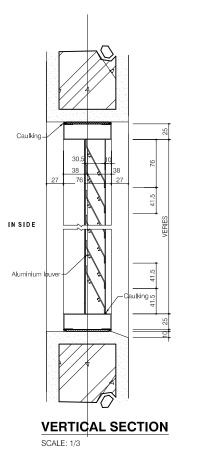
ALUMINUM LOUVER

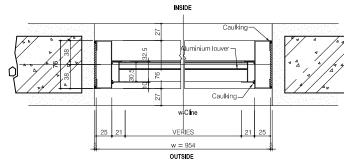


ALUMINUM WINDOW



HORIZONTAL SECTION SCALE: 1/3

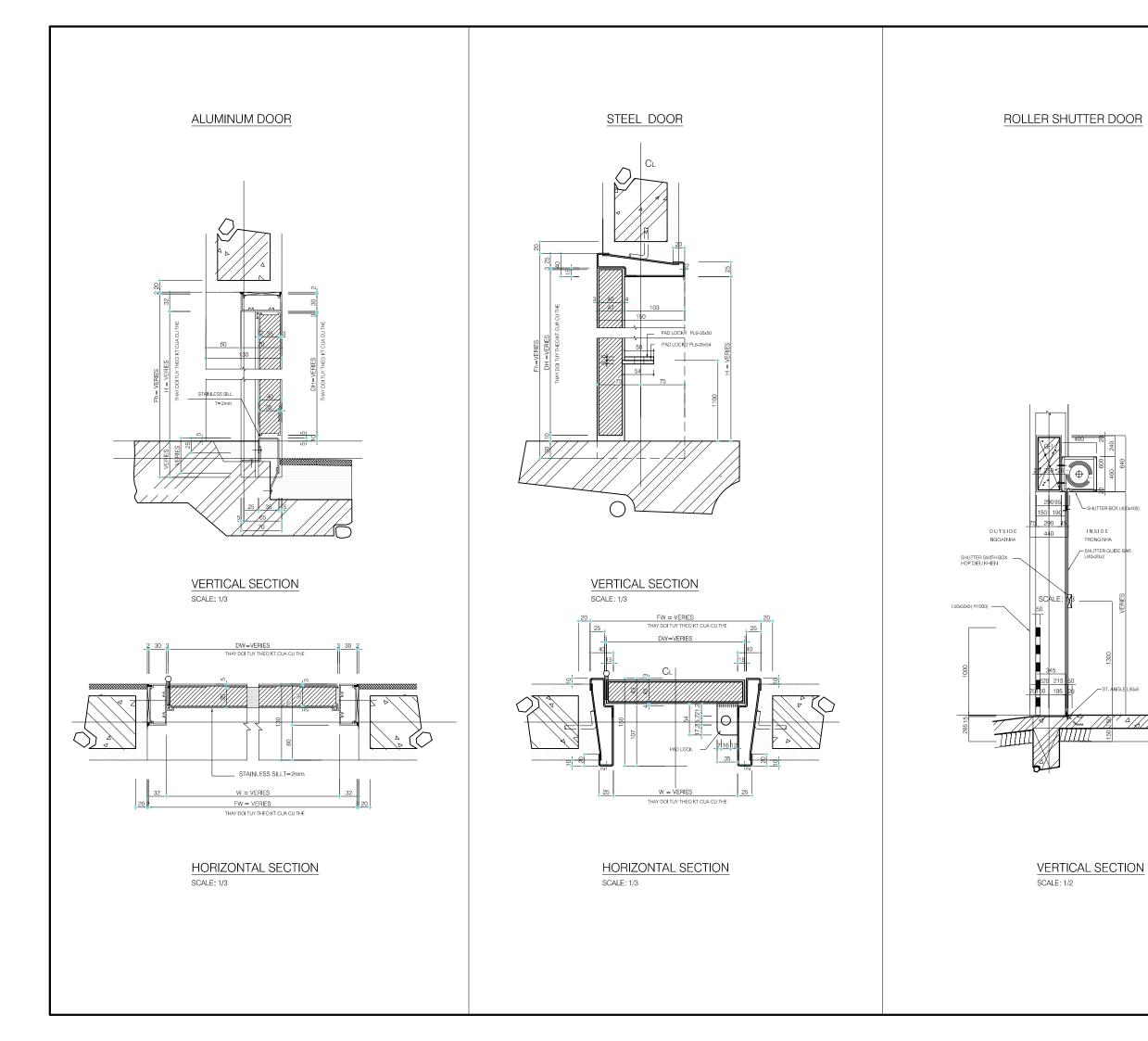


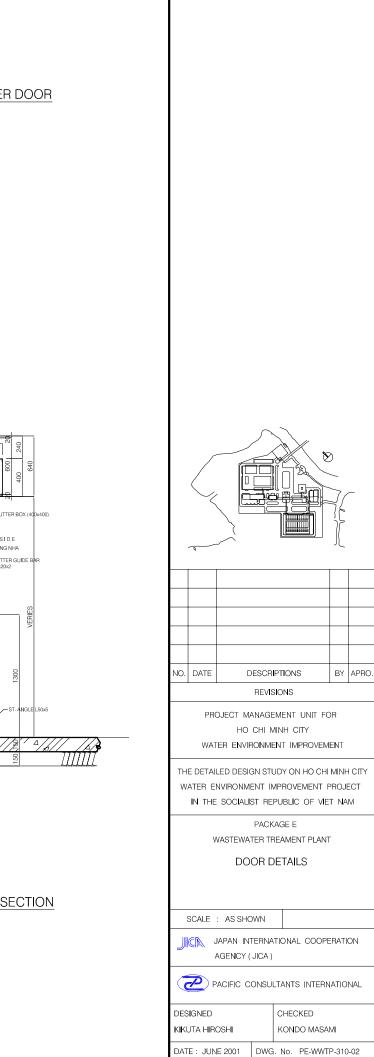


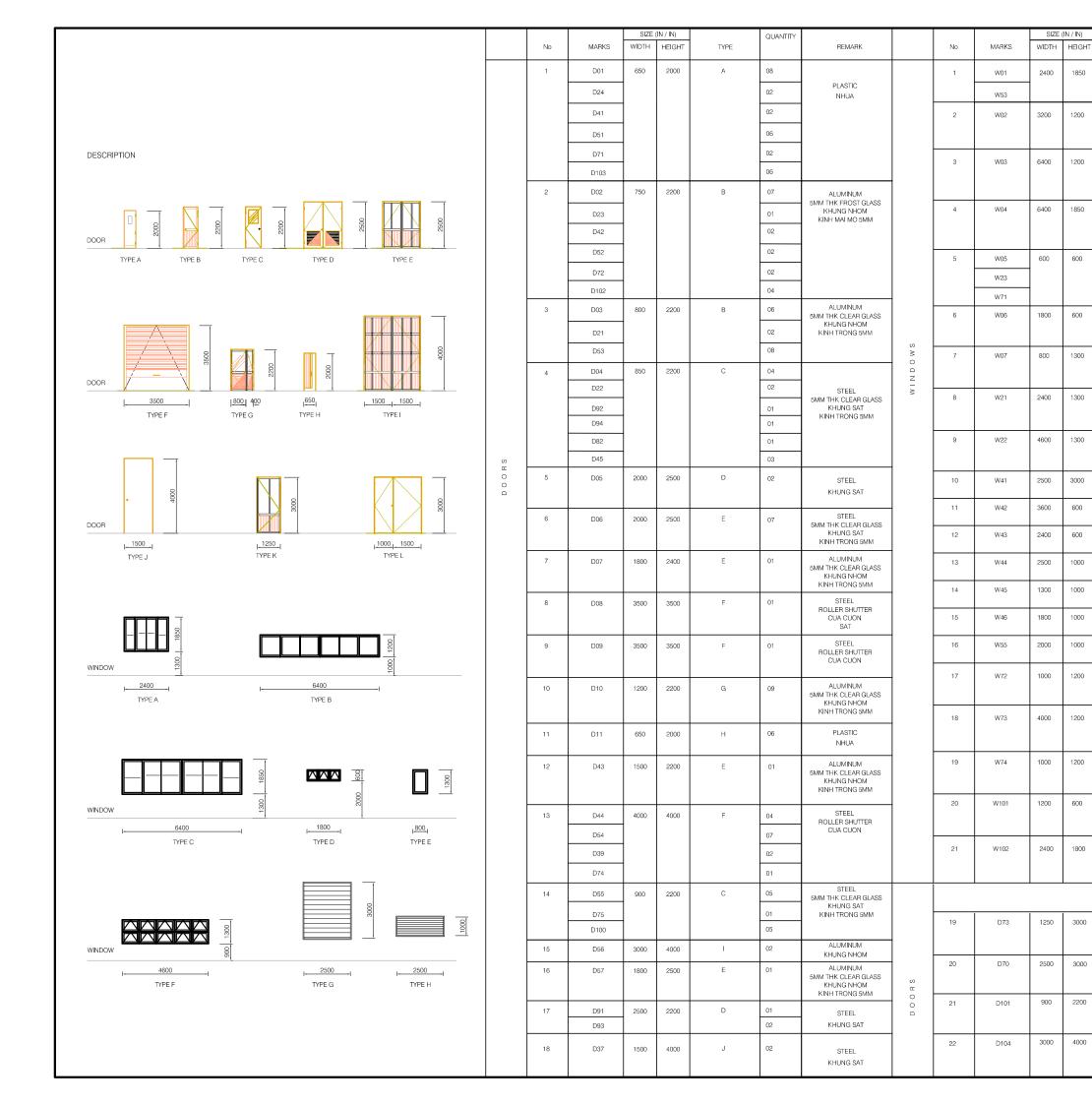


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OUTSIDE







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18	ALUMINUM LOUVER LAM NHOM
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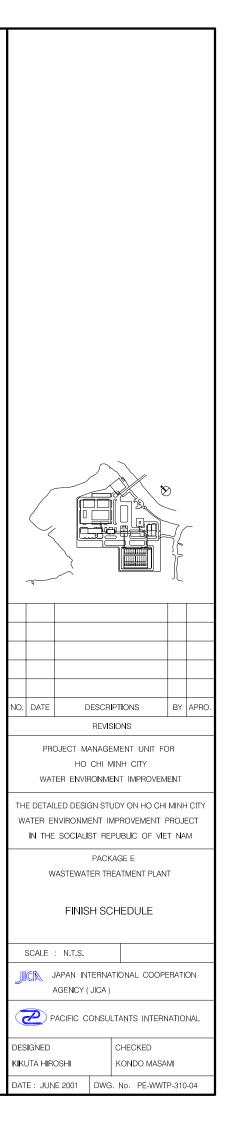
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INTERIOR FINISH SCHEDULE

NOTE:

- 1. ALL EXTERNAL WALL WILL BE FINISHED BY ONE LAYER OF WATERPROOFING MATERIAL AS INDICATED IN THE TECHNICAL SPECIFICATION AND PAINTING FINISHED. COLOUR WILL BE SELECTED BY THE PROJECT MANAGER. TAT CA TUONG NGOAL NHA DEU DUOC SON CHONG THAM THEO CHI DINH TRONG "DIEU KIEN SACH" VA SON NUOC 2 LOP HOAN THIEN. MAU SON SE DUOC CHON BOI NHA QUAN LY DU AN.
- 2. ROOFING WILL BE MADE OF SPANDEK HI-TEN ZINCALUME ROOFSHEET, ALL TRIMS AND FLASHINGS NECCESSARY FOR A PERFECT COMPLETION ARE INCLUDED & FINISHED AS INDICATED IN THE TECHNICAL SPECIFICATION. COLOUR WILL BE SELECTED BY THE PROJECT MANAGER. TOAN BO MAI NHA DUOC LOP BANG TAM LOP LOAI SPANDEK HI-TEN ZINCALUME, KE CA CAC GO VA MU CHE DEU DUOC HOAN THIEN THEO CHI DINH TRONG "DIEU KIEN SACH". MAU SON SE DUOC CHON BOI NHA QUAN LY DU AN.

	ROOM NAME	ROOM No.	F	LOO	R		WALI	L	С	EILIN	IG		ROOM NAME	ROOM No.	F	LOC	R		WAL	L	С	CEILII	NG
BUILDING			FINISHED BY EPOXY PAINT	QUART TILE (TIECERA)	CERAMIC PLOOR TILE	FINISHED BY EPOXY PAINT	FINISHED BY PAINT	CERAMIC WALL TILE	PLASTERBOAD PANEL	VILLABOARD CEILING	NON	BUILDING			FINISHED BY EPOXY PAINT	QUART TILE (TIECERA)	CERAMIC PLOOR TILE	FINISHED BY EPOXY PAINT	FINISHED BY PAINT	CERAMIC WALL TILE	PLASTERBOAD PANEL	VILLABOARD CEILING	NON
	LOBBY	01		x			x		х			C)	STORAGE	60		X			X		x		Τ
	STORAGE	02		x			×		х			(CONC.)	WORKER ROOM	61		x			X		x		
	LABORATORY	03		х			X		х					62	х			×					х
	ELECTRIC ROOM	04		x			×				х	BUILDING	CONTROL ROOM	63	х			х					×
	GENERATOR ROOM	05		x			x				х			64	х			х					х
	FEMALE	06			х			х		х		DEWATER	CENTRIFUGAL THICKENER	65	х			х					x
	MALE	07			х			х		х		В	CENTRIFUGAL DEHYDRATOR	66	х			х					x
à	CONTROL ROOM	08		x			x				х	₽Z	PUMP ROOM	68	х			х					x
	LIBRARY	09		x			x		х			LIFT PUMP STATION	STAIRCASE	69	х			х					х
MAIN OFFICE BUILDING	NIGHT DUTY	10		x			x		х														
E	TEA ROOM	11		x			×		х			BLNG	STAIRCASE	70	х			х					x
N	FEMALE LOCKER	12			х			х		х		GE E	CHLORINATION STORAGE	71	х			x					x
ź	MALE LOCKER	13			х			х		х		ORA	ELECTRIC ROOM	72	х			х					×
	MALE	14			х			х		х		CHLORINATION STORAGE	WORKER ROOM	73		х			x		x		
	FEMALE	15			Х			х		х		ATIC	WC	74			х			Х		х	
	MEETING ROOM	16		x			×		х			SHI-	PANTRY	75		x			x		X		
	WORKER ROOM	17		x			×		х			Ē											
	OFFICE	18		x			×		х				STORAGE 80	80	х			х					X
	STAIRCASE 1	19		x			x		х			щ	STORAGE 81	81	Х			х				_	х
	STAIRCASE 2	20		x			X		х			VESSEL	STORAGE 82	82	Х			х				_	х
ų.	NIGHT DUTY	21		X			X		Х			AGE	STORAGE 83	83	х			х				_	×
GUARD HOUSE	LOCKER	22		X			X		Х			STORAGE	STORAGE 84	84	Х			х				L_	X
BH	PANTRY	23		X			X		Х			S	STORAGE 85	85	Х			х				_	X
BUAI	SECURITY	24		×			×		х				STORAGE 86	86	Х			х					X
	WC	25			х			x		х			STORAGE 87	87	Х			х			\vdash	\vdash	X
GEN.	GENERATOR ROOM	31	x			х					х	TAIRCASE A	STAIRCASE	91	Х			х			L	<u> </u>	x
<u> </u>												ARC	STAIRCASE	92	Х			х			\vdash	<u> </u>	X
lILDING	BLOWER ROOM	41	x			х					Х	Ś						_			\vdash	<u> </u>	_
	AIR CORRIDOR	42	X			х					Х	ASE	STAIRCASE	93	Х			х			\vdash	1	X
ERBL	AIR CORRIDOR	43	X			Х					Х	STAIRC/ B	STAIRCASE	94	Х			х			\vdash	<u> </u>	X
BLOWER	MALE	44			Х			х		Х		ST	ELECTRIC ROOM	95	х			х			\vdash	<u> </u>	х
B	FEMALE	45			Х			х		Х			COMPOST ELECTRIC ROOM	100	Х			х			X	<u> </u>	╞
	PUMP ROOM	51	X			х					х	BUILDING	OFFICE & CONTROL ROOM	101		X		\vdash	X		X	\downarrow	\downarrow
	MIXED SLUDGE TANK	52	х			Х					х	BUL	STRAGE AND WORKSHOP ROOM	102		X		\vdash	X		X	4	\downarrow
g	HOPPER ROOM	53	X			Х					х			103		X		⊢	X		X	⊢	\vdash
DEWATER BUILDING	SLUDGE TANK	54	X		-	Х					х	CONTROL	KITCHEN	104		X		⊢	X	_	_	X	+
BH	RECYCLE FLOW TANK	55	x			х					х			105			X	⊢	\vdash	X	\vdash	Х	_
VATE	TREATED WATER TANK	56	х			Х					х	COMPOST	MALE LOCKER	106			x	<u> </u>		X	\vdash	Х	
Ш Ш	WC01	57			х			х		Х		8	FEMALE	107			x	⊢	L_	X	\vdash	х	_
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	WC02	59			х			х		х			STAIRCASE	109	X			х					X



GENERAL INFORMATION

5. FALSE WORKS

6. PILE

I. GENERAL

1. THESE NOTES SHALL APPLY UNLESS SPECIFICALLY OTHERWISE INDICATED IN THE PLANS. IN CASE OF CONFLICT BETWEEN PLANS AND SPECIFICATION, SPECIFICATIONS SHALL GOVERN.

2. ALL DIMENTIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED IN PLANS.

3. ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED IN PLANS.

4. VERTICAL DATUM IS BASED ON THE MEAN LOWER LOW WATER (MLLW) AS ESTABLISHED BY THE BUREAU OF CAST AND GEODETIC SURVEY (BCGS), THE 0.00 ELEVATION IN THE PLANS SHALL BE RECKONED FROM THE DATUM PLANS 10.00 METERS BELLOW MLLW.

5. ALL DIMENSIONS AND ELEVATIONS SHOWN IN THE PLANS SHALL BE VERIFIED BEFORE COMMENCEMENT OF THE WORKS.

6. ALL DIMENSIONS, ELEVATIONS AND LOCATIONS OF OPENING RELATING TO THE EQUIPMENT ARE TENTATIVE AND SUBJECT TO CHANGE AFTER THE EQUIPMENT DIMENSIONS HAVE BEEN ESTABLISHED.

II. CODES AND REFERENCES

1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

2. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)

3. BRITISH STANDARD (B.S)

4. AUSTRALIAN STANDARD (A.S)

5. SWEDISH STANDARD (SIS)

6. VIETNAMESE STANDARD (TCVN)

7. DESIGN CRITERIA OF EXTERIOR AND PROJECT DRAINAGE NETWORKS NO. 20 TCN-51-84, MINISTRY OF CONSTRUCTION.

8. PROCEEDINGS OF VIETNAM CONSTRUCTION STANDARDS, VOLUME III (MINISTRY OF CONSTRUCTION 1997)

9. HAND BOOK FOR DESIGN OF ROAD AND BRIDGE (VIETNAM).

10. SEWERAGE FACILITIES PLANNING AND DESIGN MANUAL, JAPAN SEWERAGE WORKS AGENCY STANDARDS (JSWAS), 1994

11. JAPANESE INDUSTRIAL STANDARD (JIS).

12. REINFORCED CONCRETE SEWER PIPE, JAPAN SEWERAGE WORKS AGENCY STANDARDS (JSWAS), 1987

13. REINFORCED CONCRETE PIPE JACKING SEWER PIPE, JAPAN SEWERAGE WORKS AGENCY STANDARDS (JSWAS), 1999

14. SPECIFICATION OF HIGHWAY BRIDGES: PART 4 (JAPAN ROAD ASSOCIATION 1994)

15. STANDARD SPECIFICATION FOR DESIGN AND COSTRUCTION OF CONCRETE STRUCTURE (THE JAPAN SOCIETY OF CIVIL ENGINEERS 1996)

16. PROCEEDINGS OF COST ESTIMATE FOR SEWERAGE DESIGN (JAPAN SEWERAGE ASSOCIATION)

17. ROAD BRIDGE SUBSTRUCTURE DESIGN STANDARD (JAPAN ROAD ASSOCIATION 1994)

18. STANDARD SPECIFICATION FOR DESIGN AND CONSTRUCTION OF CONCRETE STRUCTURE (THE JAPAN SOCIETY OF CIVIL ENGINEERS 1996)

19. STRUCTURE DESIGN INDEX (JAPAN SEWAGE WORKS AGENCY 1998)

20. TEMPORARY STRUCTURE DESIGN INDEX (JAPAN SEWAGE WORKS AGENCY 1998).

21. SPECIFICATION FOR HIGHWAY BRIDGES: PART 4 (JAPAN ROAD ASSOCIATION 1990).

22. STANDARD SPECIFICATION FOR DESIGN AND CONSTRUCTION OF TUNNELING: OPEN CUT METHOD (THE JAPAN SOCIETY OF CIVIL ENGINEER 1996)

23. TEMPORARY STRUCTURE INDEX FOR EARTH WORKS OF ROAD (JAPAN ROAD ASSOCIATION 1990)

24. TEMPORARY STRUCTURE DESIGN INDEX (JAPAN SEWAGE WORKS AGENCY 1998).

III. CIVIL AND STRUCTURAL DESIGN

1. DESIGN LOAD:

1.1 DEAD LOAD

- STEEL 7850 Kg/m³ - PLAIN CONCRETE 2350 Kg/m³ - REINFORCE CONCRETE 2500 Kg/m³

1.2 LIVE LOAD

- CROWD LOAD 500 Kg/m² - SURCHARGE 1000 Kg/m² (500Kg/cm²) - TRUCK LOAD H30

1.3 SEISMIC LOAD

- SEISMIC COEFFICIENT 0.00

2. CONCR	ETE:	
	TE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH TANDARD CYLINDER TESTS AS FOLLOWS:	I (fc) AFTER 28 DAYS BASED
CLASS	USE OF EACH CLASS OF CONCRETE	STRENGTH*(kg/cm²)
А	JACKING PIPES	500
в	PRESTRESSED CONCRETE FOR BRIDGE GIRDERS	420
С	DIAPHRAGM WALL	300
D	PRECAST CONCRETE	250
Е	GENERAL USE REINFORCED CONCRETE	210
F	PLAIN (UNREINFORCED) CONCRETE	180
G	LEVELLING CONCRETE	100
* NOTE: M	inimum 28-day compressive strength by cylinder test (300m	m x150mm d i ameter).
3. REINFO	DRCING BARS:	
SPECIFIC	FORCING STEEL SHALL CONFORM TO THE REQUIREME ATIONS EXCEPT THAT THE WEIGHTS OF THE STANDAR ABLE 4.4.2.a AND TABLE 4.4.2.b, IRRESPECTIVE OF THE ITURE.	RD BAR SIZES WILL BE TAKEN
- ROUND	BAR:	
	22TCN 18-79; OR 2 (GRADE SR 235); OR 5	
- DEFORM	IED BARS:	
JIS G 311) 22TC N 18-79; OR 2 (GRADE SD 295A); OR 2 (GRADE SD 345); OR 5	
	CING BARS SHALL BE KEPT OFF THE GROUND AND STO D WITH SUITABLE COVER.	DRED WITHIN A BUILDING OR
	SS OTHERWISE SHOWN ON THE PLANS, SPACING OF F ROM OR TO THE CENTERLINES OF THE BARS.	REINFORCING BARS SHALL
4. STRUCT	FURAL STEEL:	
	CTURAL STEEL SHALL CONFORM TO ASTM A36 OR JIS NT WITH A MINIMUM YIELD STRENGTH OF 2.500 Kg/cm2	

6.2 FINAL PIPE LENGTH SHALL BE DETERMINED AS PROVIDED IN THE SPECIFICATIONS. 6.3 SPLICING OF PILES IS NOT ANTICIPATED. HOWEVER, IF AND WHEN THE NECESSITY OCCURS, SPLICING SHALL BE MADE BY STANDARD PILE SPLICING METHOD SUBJECT TO PRIOR APPROVAL OF THE ENGINEER.

6.4 PILES SHALL BE SECURELY EMBEDDED AND ANCHORED INTO THE PILE CAPS AND PILE FOOTING BY STANDARD METHOD AS SHOWN IN THE DRAWINGS.

ALL FALSE WORKS AND CENTERING SHALL BE SUBJECT TO APPROVAL BY THE ENCINEER. IN A MANNER AS PRESCRIBED BY THE SPECIFICATIONS, THE REMONAL OF FALSE WORKS SHALL BE AS DIRECTED BY THE ENGINEER.

6.1 $\,$ REINFORCED CONCRETE PILES SHALL HAVE A MINIMUM WORKING VERTICAL LOAD BEARING CAPACITY OF 30.000 kg.

V. MECHANICAL / ELECTRICAL DESIGN:

GENERAL NOTES ON MECHANICAL/ ELECTRICAL WORKS SHALL BE REFERRED TO THOSE OF RESPECTIVE DRAWING

V. ABBREVIATIONS AND SYMBOLS:

ABBREVIATIONS

ALUM	ALUMINUM	GRD, GRND	GROUND
вн	BOREHOLE	HOR	HORIZONTA
вм	BENCHMARK	H.W.L.	HIGH WATE
Bm, B	BEAM	L	LENGTH
B.W.	BOTHWAYS	LN	LINE
B.B.	BOTTOM BARS	L.W.L.	LOW WATER
в.І.	BLACK IRON	LVL	LEVEL
BR.	BRIDGE	m	METER
С	COLUMN	mm	MILLIMETER
с.і.	CAST IRON	M.S.L	M EAN SEA
C.H.B.	CONCRETE HOLLOW BLOCK	MLLW	MEAN LOW
CONC.	CONCRETE	Ν	NORTH
cm	CENTIMETER	N.T.S	NOT TO SC
DWG	DRAWING	0.C.	ON CENTER
D	DOOR	OPN	OPERATION
D.E.G.	DIESEL ENGINE GENERATOR	P.F.	PILE FOOTI
DECOR	DECORATIVE	REQ'D	REQ UIRED
DS	DOWNSPOUT	R.C.	REINFORCE
EA	EACH	ST	STREET
E.F.	EACH FACE	SYN	SYNTHETIC
EPPCF	ELECTROSTATIC POLYESTER	STL	STEEL
	POWDER COATED FINISH	t, THK	THICKNESS
EL, ELEV	ELEVATION	TYP	TYPICAL
EQ	EQUAL	Т.В.	TOP BAR
FLR	FLOOR	TEMP	TEMPERATU
F.T.B.	FOOTING TIE BEAM	VERT	VERTICAL
GA	GAUGE	VIT	VITRIFIED
GALV	GALVANIZED	W/	WITH
G.L.	GROUND LEVEL	W/O	WITHOUT
G.I.	GALVANIZED IRON	W.P.	WATERPROC

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