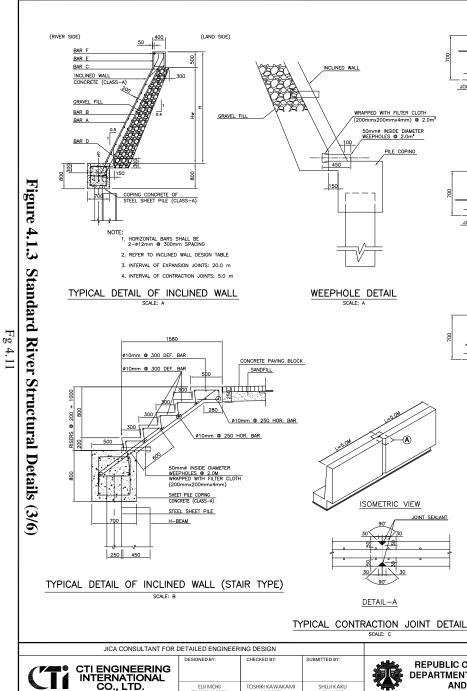


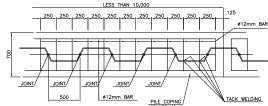
REMARKS

SHEET NO

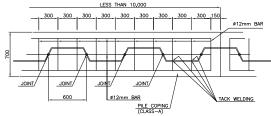
PR-GE

SD 02

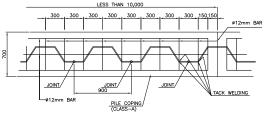




U-SHAPE STEEL SHEET PILE W/ SSP WIDTH=0.5M

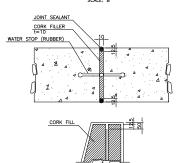


U-SHAPE STEEL SHEET PILE W/ SSP WIDTH=0.6M



HAT-SHAPE / H-BEAM / SSP WIDTH=0.9M

TYPICAL DETAIL OF PILE COPING



TYPICAL	EXPANSION	JOINT	DETAIL
	COALE: O		

SCHEDULE	OF	INCLINED	WALL	LOCATIONS	AND	DIMENSION	1S
	TION !	.		DANIOE		CLODE OF	П

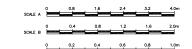
STAT	TIONS	RANG	E	SLOPE OF	ADJOINING	MEMBERS	BANK	REMARKS
FROM	то	Hw, (m)	L(m)	BACKWALL H:V	TOP	воттом		, TEMPLITO
6+376	6+482	0.32~0.32	114.40	0.5:1	VW,SW	PC	LEFT	
7+326	7+444	0.26~0.27	121.28	0.5:1	VW,SW	PC	LEFT	
7+494	7+514	0.27~0.27	19.42	0.5:1	VW,SW	PC	LEFT	
11+500	11+628	0.41~0.42	128.49	0.5:1	PW,FC	PC	LEFT	
12+024	12+173	0.44~0.45	148.38	0.5:1	VW,SW	PC	LEFT	
13+806	14+043	0.54~0.55	237.55	0.5:1	VW,SW	PC	LEFT	
14+043	14+045	0.55~1.56	6.41	0.5:1	RL,SW	PC	LEFT	
14+045	14+272	1.56~1.56	210.40	0.5:1	RL,SW	PC	LEFT	
15+236	15+310	1.63~1.63	74.15	0.5:1	RL,SW	PC	LEFT	
15+310	15+311	1.23~1.63	1.60	0.5:1	vw,sw	PC	LEFT	
15+311	15+424	1.23~1.23	120.08	0.5:1	vw,sw	PC	LEFT	
15+443	15+548	0.94~0.94	113.06	0.5:1	vw,sw	PC	LEFT	
15+747	15+870	0.95~0.96	107.52	0.5:1	VW,SW	PC	LEFT	
15+965	15+973	1.27~1.67	8.04	0.5:1	VW,SW	PC	LEFT	
15+973	16+142	1.27~1.28	162.94	0.5:1	VW,SW	PC	LEFT	
16+142	16+150	1.28~0.88	8.01	0.5:1	VW,SW	PC	LEFT	
16+150	16+450	0.88~0.90	310.41	0.5:1	VW,SW	PC	LEFT	
16+450	16+454	0.70~0.90	4.00	0.5:1	VW,SW	PC	LEFT	
16+454	16+552	0.70~0.70	109.73	0.5:1	VW,SW	PC	LEFT	
16+552	16+564	0.70~1.30	11.82	0.5:1	VW,SW	PC	LEFT	
8+222	9+341	0.31~0.38	1048.65	0.5:1	VW,SW	PC	RIGHT	
9+430	9+792	0.39~0.40	380.67	0.5:1	VW,SW	PC	RIGHT	
9+814	9+947	0.41~0.41	187.85	0.5:1	VW,SW	PC	RIGHT	
10+956-A	11+263	0.37~0.39	327.85	0.5:1	PW,SW	PC	RIGHT	
11+610	11+653	0.41~0.41	43.65	0.5:1	SW	PC	RIGHT	
11+788	11+803-A	0.42~0.42	20.46	0.5:1	SW	PC	RIGHT	
13+578	13+801-B	1.03~1.04	226.75	1.0:0.7	SW	PC	RIGHT	STAIR TYPE
13+804-A	14+225-A	0.54~0.56	448.58	0.5:1	SW	PC	RIGHT	
14+234-B	14+365	0.56~0.57	138.22	0.5:1	SW	PC	RIGHT	
14+835	14+943	0.60~0.61	125.83	0.5:1	SW	PC	RIGHT	
14+983	15+075	0.61~0.62	96.55	0.5:1	VW,SW	PC	RIGHT	
15+409	15+441	1.64~1.64	25.10	0.5:1	SW	PC	RIGHT	
15+476	15+494	0.64~0.64	20.17	0.5:1	SW	PC	RIGHT	
16+667	16+724	0.71~0.71	56.26	0.5:1	SW	PC	RIGHT	
16+760	16+801	1.32~1.32	56.06	0.5:1	SW	PC	RIGHT	
16+801	16+840	1.32~1.32	45.69	0.5:1	VW,SW	PC	RIGHT	

W - VERTICAL WALL
PW - PARAPET WALL
SW - SIDEWALK (CONCRETE BLOCK PAVING)
PC - PILE COPING

RL - RAILING FC - FILLER CONCRETE EPC - EXISTING PILE CAP

SCHEDULE OF INCLINED WALL REINFORCEMENT

SCHEDULE O	II IIICLIIILD	MALL I	CLII4I OI	CEME									
HEIGHT							REINFOR	RCEMENT					
HEIGHT	RANGE	BAR A		BAR B		BAR C		BAR D		BAR E		BAR F	
HW (π)	(w) ±	DIA (mm)	SPACING (mm)										
0.0~1.5	0.5~2.0	16	250	16	250	12	300	12	250	12	250	12	-
1.5~2.5	2.0~3.0	16	125	16	125	12	300	12	125	12	125	12	-
2.5~2.75	3.0~3.25	16	125	16	125	12	300	12	125	12	125	12	-
2.75~3.0	3.25~3.5	20	125	20	125	12	300	12	125	12	125	12	-



	R	Е	٧	1	S	1	0	Ν	S		
NO.		oesc	RPTI	ON						APPROVED	DATE
										1	I

PURBUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED INFLEMENTING RILLES AND REQULATIONS OF RA. 1924, APPROVAL BY THE AUTHORIZED OPINH OPPICALS OF BY THE ALL PROMISE HIGH SUBJECTS AND DESIGN LINGER THAN BY COMMITTAND WITHIN OR MINISTER STATE OF THE LATTER FIRST THE TECHNICAL MINISTERS OF AUTHORIZED THE RESPONSIBILITY OF THE LATTER FIRST THE TECHNICAL MINISTERS OF AUTHORIZED WITHIN THE AUTHORIZED THE AUTHORIZED THE THE AUTHORIZED THE AUTHORI

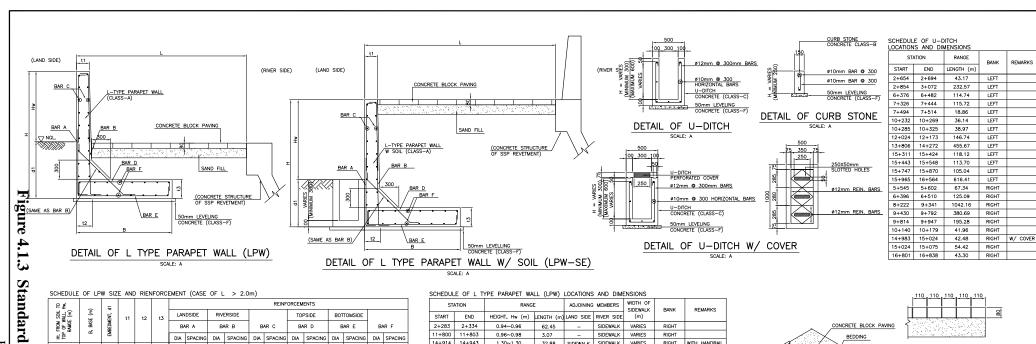
JICA CONSULTANT FOR	DETAILED ENGINEER	RING DESIGN				REPUBLIC OF THE	PHILIPPINES				PROJECT & LOCATION	SHEET CONTENTS	SHEET NO.
_	DESIGNED BY:	CHECKED BY:	SUBMITTED BY:	بعقعد	REPUBLIC OF THE PHILIPPINES	REVIEWED BY:	RECOMMENDING APPRO	/AL:		APPROVED BY:	PASIG-MARIKINA		_
■● CTI ENGINEERING I ▲ INTERNATIONAL					DEPARTMENT OF PUBLIC WORKS				SEE COVER SHEET FOR THE SIGNATURE OF THE UNDERSECRETARY	SEE COVER SHEET FOR THE SIGNATURE AND APPROVAL OF THE SECRETARY	RIVER CHANNEL IMPROVEMENT	TABLES AND DETAILS OF INCLINED WALL,	PR-GE
CO., LTD.	EIJI MOKI STRUCTURAL ENGINEER I	TOSHIKI KAWAKAMI THE CHECKER	SHUJI KAKU TEAM LEADER	**************************************	AND HIGHWAYS	PERFECTO L. ZAPLAN, JR. CHIEF, HYDRAULIC DIVISION, BOD	PATRICK B. GATAN PROJECT DIRECTOR PMO - MFCP	GILBERTO S. REYES DIRECTOR BOD	RAUL C. ASIS UNDERSECRETARY FOR TECHNICAL SERVICES	ROGELIO L. SINGSON SECRETARY	PROJECT (PHASE III), METRO MANILA	WEEPHOLE, PILE CAPS, & EXPANSION JOINT	SDIU3

River

Structural

Details

(4/6)



1.30~1.30

0.96~0.96

SCHEDULE OF L TYPE PARAPET WALL WITH SOIL EMBANKMENT (LPW-SE) LOCATION AND DIMENSIONS

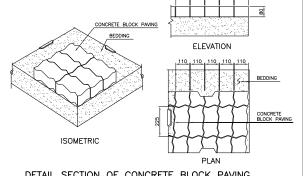
₽┋	_	=				REINFORCEMENTS											
SOIL (m):	E (E)		t1	t2	t3	LAN	IDSIDE	RIV	ERSIDE			TO	PSIDE	BOT	TOMSIDE		
FROM SOII OF WALL, RAMGE (m	3, BASE	EMBEDMENT,	BAR A BAR B BAR C		BAR C BAR D		BAR E		BAR F								
를 ^D T		6				DIA	SPACING	DIA	SPACING	DIA	SPACING	DIA	SPACING	DIA	SPACING	DIA	SPACING
0.00~0.50	1.00	0.50	0.20	0.20	0.20	12	250	12	250	12	300	12	250	12	250	12	300
0.51~1.00	1.35	0.50	0.20	0.20	0.20	12	250	12	250	12	300	12	250	12	250	12	300
1.01~1.10	1.50	0.50	0.20	0.20	0.20	12	250	12	250	12	300	12	250	12	250	12	300
1.11~1.20	1.65	0.50	0.20	0.20	0.20	12	250	12	250	12	300	12	250	12	250	12	300
1.21~1.30	1.80	0.50	0.20	0.20	0.20	12	250	12	250	12	300	12	250	12	250	12	300
1.31~1.40	1.90	0.50	0.20	0.20	0.20	12	250	16	250	12	300	16	250	12	250	12	300
1.41~1.50	2.05	0.50	0.20	0.20	0.20	12	250	16	250	12	300	16	250	12	250	12	300
1.51~1.60	2.20	0.50	0.20	0.20	0.20	12	250	16	250	12	300	16	250	12	250	12	300
1.61~1.70	2.35	0.50	0.20	0.20	0.20	12	250	12	125	12	300	12	125	12	250	12	300
1.71~1.80	2.45	0.50	0.20	0.20	0.20	12	250	20	250	12	300	20	250	12	250	12	300
1.81~1.90	2.60	0.50	0.20	0.20	0.20	12	250	20	250	12	300	20	250	12	250	12	300
1.91~2.00	2.75	0.50	0.20	0.20	0.20	12	250	16	125	12	300	16	125	12	250	12	300

SCHEDULE	OF LPV	V-SE	SIZE	AND I	REINFO	RCEM	ENTS										
₽.≢	_	-F									REINF	ORCEM	ENTS				
Solt (m)	(E)		l t1	t2	t.3	LAN	IDSIDE	RIV	ERSIDE			TO	PSIDE	BOT	TOMSIDE		
FROM SOIL OF WALL, I RAMGE (m)	B, BASE	EMBEDMENT,				B/	NR A	BAR B BAR C		BAR D		BAR E		BAR F			
를 ^다		ā				DIA	SPACING	DIA	SPACING	DIA	SPACING	DIA	SPACING	DIA	SPACING	DIA	SPACING
0.00~0.50	0.50	0.40	0.20	0.20	0.20	12	250	12	250	12	300	12	250	12	250	12	300
0.51~0.60	0.50	0.40	0.20	0.20	0.20	12	250	12	250	12	300	12	250	12	250	12	300
0.61~0.70	0.55	0.40	0.20	0.20	0.20	12	250	16	250	12	300	16	250	12	250	12	300
0.71~0.80	0.65	0.40	0.20	0.20	0.20	12	250	16	250	12	300	16	250	12	250	12	300
0.81~0.90	0.75	0.40	0.20	0.20	0.20	12	250	20	250	12	300	20	250	12	250	12	300
0.91~1.00	0.85	0.40	0.20	0.20	0.20	12	250	16	125	12	300	16	125	12	250	12	300
1.01~1.10	0.95	0.40	0.20	0.20	0.20	12	250	25	250	12	300	25	250	12	250	12	300
1.11~1.20	1.00	0.40	0.20	0.30	0.30	12	250	20	250	12	300	20	250	12	250	12	300
1.21~1.30	1.15	0.40	0.20	0.30	0.30	12	250	16	125	12	300	16	125	12	250	12	300
1.31~1.40	1.25	0.40	0.20	0.30	0.30	12	250	25	250	12	300	25	250	12	250	12	300
1.41~1.50	1.35	0.40	0.20	0.30	0.30	12	250	20	125	12	250	20	125	12	250	12	250
1.51~1.60	1.45	0.40	0.20	0.35	0.35	16	250	20	125	12	250	20	125	16	250	12	250

STATION		RANGE		ADJOINING	MEMBERS	WIDTH OF SIDEWALK	BANK	REMARKS	
START	END	HEIGHT, Hw (m)	LENGTH (m)	LAND SIDE	RIVER SIDE	(m)		TILLING CITO	
3+062	3+072	0.00~0.32	11.27	U-DITCH	SIDEWALK	VARIES	LEFT		
6+376	6+482	0.00~0.50	114.64	U-DITCH	SIDEWALK	VARIES	LEFT		
13+806	13+926	0.00~0.26	121.54	U-DITCH	SIDEWALK	VARIES	LEFT		
14+072	14+272	0.18~0.48	180.39	U-DITCH	SIDEWALK	3.00	LEFT		
16+152	16+203	0.00~0.28	50.76	U-DITCH	SIDEWALK	3.00	LEFT		
16+516	16+564	0.00~0.27	51.38	U-DITCH	SIDEWALK	3.00	LEFT		
5+571	5+602	0.46~0.57	36.61	U-DITCH	SIDEWALK	VARIES	RIGHT		
8+222	9+341	0.00~0.50	1042.57	U-DITCH	SIDEWALK	3.00	RIGHT		
9+430	9+792	0.23~0.82	380.90	U-DITCH	SIDEWALK	3.00	RIGHT		
9+814	9+947	0.58~1.10	195.01	U-DITCH	SIDEWALK	3.00	RIGHT		
10+140	10+179	0.35~0.39	29.31	U-DITCH	SIDEWALK	VARIES	RIGHT		

32.88 SIDEWALK

10.35



DETAIL SECTION OF CONCRETE BLOCK PAVING

SCALE A	_	0.4	0.8	1.2	1.6	2.0m
SCALE B	<u>_</u>	0.2	0.4	0.6	0.8	1.0m

SIDEWALK VARIES

SIDEWALK VARIES RIGHT

RIGHT WITH HANDRAIL

REVISIONS

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF R.A. 9184, APPROVALE BY THE AUTHORIZED DEWN OFFICIALS TO BETALED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS WETHER DIMINISHS THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL.

JICA CONSULTANT FOR I	DETAILED ENGINEER	ING DESIGN
	DEGIGNIED DV	

(12	CTI ENGINEERING INTERNATIONAL	DESIGNED BY:
	CO., LTD.	EIJI MOKI STRUCTURAL ENGINEER I

HORIZONTAL ALIGNMENTS OF L-TYPE PARAPET WALLS WAS BASED ON THE ALIGNMENT OF EXISTING RIVER SHORELINE AND OFFSET DISTANCE SHOWN IN THE DRAWINGS ARE FOR ESTIMATES ONLY. ACTUAL ALIGNMENT SHALL BE CONFIRMED BY THE ENGINEER DURING CONSTRUCTION.

DESIGNED BY:	CHECKED BY:	SUBMITTED BY:
ELJI MOKI	TOSHIKI KAWAKAMI	SHUJI KAKU
STRUCTURAL ENGINEER I	THE CHECKER	TEAM LEADER

	REPUBLIC OF THE PHILIPPINES
	DEPARTMENT OF PUBLIC WORKS
¥.	AND HIGHWAYS

14+914 14+943

15+483 15+494

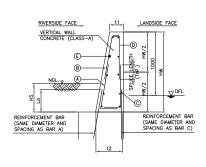
REPUBLIC OF THE	PROJECT & LOCATION					
REVIEWED BY:	RECOMMENDING APPROV	PASIG-MARIKINA				
			SEE COVER SHEET FOR THE SIGNATURE OF THE UNDERSECRETARY	SEE COVER SHEET FOR THE SIGNATURE AND APPROVAL OF THE SECRETARY	RIVER CHANNEL IMPROVEMENT PROJECT (PHASE III), METRO MANILA	
PERFECTO L. ZAPLAN, JR. CHIEF, HYDRAULIC DIVISION, BOD	PATRICK B. GATAN PROJECT DIRECTOR PINO - MFCP	GILBERTO S. REYES DIRECTOR BOD	RAUL C. ASIS UNDERSECRETARY FOR TECHNICAL SERVICES	ROGELIO L. SINGSON SECRETARY		

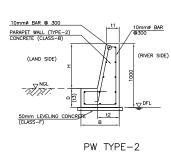
PASIG-MARIKINA TABLES AND DETAILS RIVER CHANNEL OF LPW , LPW-SE AND IMPROVEMENT ROJECT (PHASE III), U-DITCH METRO MANILA

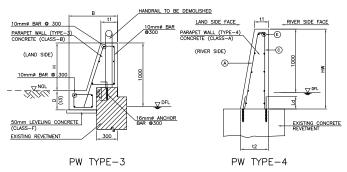
PR-GE SD 04

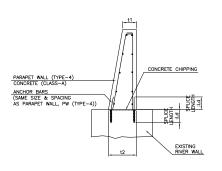
SHEET NO.

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DETAIL OF VERTICAL WALL (VW)

TYPICAL DETAIL OF PARAPET WALL (PW)

DETAIL OF PARAPET WALL (PW TYPE-4) CONNECTION TO EXISTING STRUCTURE

SCHEDULE OF VERTICAL WALL AND PARAPET WALLS TYPE 4 THICKNESS AND REINFORCEMENT (REFER DRAWING DETAIL OF VERTICAL WALL AND DETAIL OF PARAPET WALL TYPE-4 PW)

HEICHT	RANGE	TUICE	NESS					REINF	ORCEMENT				
HEIGHT	KANGE	IHICE	INESS	E	BAR A		BAR B	E	BAR C	E	BAR D	E	BAR E
WALL HEIGHT (m)	SOIL HEIGHT (m)	t1 (mm)	t2 (mm)	DIA (mm)	SPACING (mm)								
0.5~1.5	0~0.1	0.2	t1+H*0.1	12	250	12	250	12	250	12	250	12	300
0.5~1.5	0.11~1.0	0.2	t1+H*0.1	12	250	12	250	12	250	12	250	12	300
0.5~1.5	1.2~1.5	0.2	t1+H*0.1	12	250	12	250	12	250	12	250	12	300
1.51~1.6	0~0.1	0.2	t1+H*0.1	12	250	12	250	16	250	12	250	12	300
1.51~1.6	1.2~1.6	0.2	t1+H*0.1	16	250	12	250	12	250	12	250	12	300
1.61~2.0	0~0.1	0.2	t1+H*0.1	12	250	12	250	20	250	12	250	12	300
1.61~2.0	0.11~0.5	0.2	t1+H*0.1	12	250	12	250	20	250	12	250	12	300
1.61~2.0	1.01~1.5	0.2	t1+H*0.1	16	250	12	250	12	250	12	250	12	300
1.61~2.0	1.51~2.0	0.2	t1+H*0.1	20	250	12	250	12	250	12	250	12	300
2.11~2.5	0~0.5	0.2	t1+H*0.1	12	250	12	250	20	125	12	250	12	300
2.11~2.5	0.51~1.0	0.2	t1+H*0.1	12	250	12	250	20	125	12	250	12	300
2.11~2.5	1.51~2.0	0.2	t1+H*0.1	20	250	12	250	12	250	12	250	12	300
2.51~2.6	0~0.50	0.2	t1+H*0.1	12	250	12	250	20	125	12	250	12	300
2.51~2.6	0.51~1.0	0.2	t1+H*0.1	12	250	12	250	20	125	12	250	12	300
2.51~2.6	1.01~1.5	0.2	t1+H*0.1	16	250	12	250	20	250	12	250	12	300
2.61~3.0	0~0.50	0.2	t1+H*0.1	16	250	12	250	20	125	12	250	12	300
2.61~3.0	0.51~1.0	0.2	t1+H*0.1	16	250	12	250	20	125	12	250	12	300
2.61~3.0	1.01~1.5	0.2	t1+H*0.1	16	250	12	250	20	125	12	250	12	300

STAT	IONS	RAI	NGE		
START	END	WALL HEIGHT H	LENGTH (m)	BANK	REMARKS
10+232	10+341	0.60~1.40	110.20	LEFT	
10+425	10+434	1.00~1.20	9.44	LEFT	WITH STEPS
10+467	10+477	1.10~1.10	10.37	LEFT	WITH STEPS
11+500	11+628	1.00~1.00	128.49	LEFT	
12+	024	1.00~1.00	4.30	LEFT	CLOSURE WAL
3+069	3+100	0.27~1.48	30.60	RIGHT	
3+649	3+753	0.81~0.83	98.89	RIGHT	
5+6	602	1.22~1.22	1.91	RIGHT	CLOSURE WAL
6+3	396	1.30~1.30	1.16	RIGHT	CLOSURE WAL
10+140	10+179	1.34~1.34	15.68	RIGHT	
10+956-A	11+055	1.00~1.00	117.28	RIGHT	
11+150	11+263	0.96~0.99	113.08	RIGHT	
11+610	11+643	0.95~0.99	33.63	RIGHT	
11+643	11+653	0.67~0.67	21.22	RIGHT	
11+788	11+800	0.96~0.99	15.60	RIGHT	
15+	411	0.38~0.38	3.10	RIGHT	
15+494	16+086	0.30~0.60	606.87	RIGHT	
16+095	16+472	0.60~0.80	363.82	RIGHT	
16+	789	0.40~0.40	5.80	RIGHT	WITH STEPS

HEDULE	OF VERTICA	L WALL LO	CATION, HE	IGHTS AND	LENGTH	
STAT	IONS		RANGE			
START	END	WALL HEIGHT Hw	SOIL HEIGHT Hs	LENGTH (m)	BANK	REMARKS
2+392	2+419	0.82~0.83	0.09~0.27	26.49	LEFT	
2+419	2+694	0.76~0.80	0.0~0.27	278.87	LEFT	
2+854	3+072	0.86~0.89	0.0~0.28	230.66	LEFT	
6+376	6+482	0.47~0.53	0.0	114.40	LEFT	
7+326	7+444	1.00~1.00	0.0	121.28	LEFT	
7+494	7+514	1.00~1.00	0.0	19.42	LEFT	
7+514	7+580	0.47~0.56	0.0	56.35	LEFT	
12+024	12+173	1.00~1.00	0.0	148.38	LEFT	
13+806	14+043	1.00~1.00	0.0	237.55	LEFT	
14+043	14+045	0.00~1.00	0.0	6.41	LEFT	
15+310	15+311	0.00~0.40	0.0	1.60	LEFT	
15+311	15+424	0.40~0.40	0.0	120.08	LEFT	+HANDRAIL
15+443	15+548	0.50~0.50	0.0	113.06	LEFT	+HANDRAIL
15+747	15+870	0.50~0.50	0.0	107.52	LEFT	+HANDRAIL
15+965	15+973	0.00~0.40	0.0	8.04	LEFT	+HANDRAIL
15+973	16+142	0.40~0.40	0.0	162.94	LEFT	+HANDRAIL
16+142	16+150	0.40~0.80	0.0	8.01	LEFT	
16+150	16+450	0.80~0.80	0.0	310.41	LEFT	
16+450	16+454	0.80~1.00	0.0	4.00	LEFT	
16+454	16+552	1.00~1.00	0.0	109.73	LEFT	
16+552	16+564	0.40~1.00	0.0	11.82	LEFT	+HANDRAIL
5+545	5+602	1.21~1.22	0.21~0.22	67.45	RIGHT	
6+396	6+510	1.30~1.37	0.30~0.37	113.18	RIGHT	
8+222	9+341	1.00~1.00	0.0	1048.65	RIGHT	
9+430	9+792	1.00~1.00	0.0	380.67	RIGHT	
9+814	9+947	1.00~1.00	0.0	187.85	RIGHT	
14+365	14+395-A	1.07~1.08	1.07~1.08	35.76	RIGHT	
14+983	15+075	1.00~1.00	0.0	96.55	RIGHT	
16+801	16+840	0.40~0.40	0.0	45.69	RIGHT	+HANDRAIL

SCHEDULE OF PARAPET SIZE (TYPE-2 & TYPE-3)

н	В	D	t1	t2	t3
0.30	0.36	0.20	0.30	0.36	0.20
0.40	0.38	0.20	0.30	0.38	0.20
0.50	0.40	0.20	0.30	0.40	0.20
0.60	0.45	0.20	0.30	0.42	0.20
0.70	0.50	0.20	0.30	0.44	0.20
0.80	0.60	0.30	0.30	0.46	0.30
0.90	0.75	0.40	0.30	0.48	0.40
1.00	0.85	0.40	0.30	0.50	0.40
1.10	0.95	0.50	0.30	0.52	0.50
1.20	1.10	0.55	0.30	0.54	0.55
1.30	1.20	0.60	0.30	0.56	0.60
1.40	1.40	0.70	0.30	0.58	0.70
1.50	1.60	0.70	0.30	0.60	0.70

JICA CONSULTANT FOR DETAILED ENGINEERING DESIGN

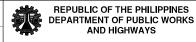
SCHEDULE	SCHEDULE OF PARAPET WALL LOCATION, HEIGHTS AND LENGTH (TYPE-4)						
STAT	IONS	RAI	NGE				
START	END	WALL HEIGHT Hw	LENGTH (m)	BANK	REMARKS		
7+326-A	7+326	0.57~0.57	6.72	LEFT			
10+140	10+179	1.37~1.40	27.80	RIGHT			
11+	788	0.55~1.00	4.00	RIGHT			
16+086	16+095	0.56~0.56	8.95	RIGHT			
16+840	16+843	0.89~0.89	2.85	RIGHT			

SCHEDULE	OF PARAPE	I WALL LOCA	WALL LOCATION, HEIGHTS AND			
STAT	IONS	RAN	4GE			
START	END	WALL HEIGHT Hw	LENGTH (m)	BANK	REMARKS	
10+405	10+425	1.08~1.08	20.74	LEFT		
7+516	8+219	1.08~1.46	612.65	RIGHT		
11+055	11+150	0.96~0.98	97.49	RIGHT		
11+788		0.55~0.55	4.00	RIGHT	WITH STEPS	
13+804-4	14+193	0.50~0.81	306.02	RIGHT		

				NOTE: PURSUANT TO SECTION 4 OF ANNEX 141 OF THE REVISED INDIFFMENTING BILLER.
	REVISIONS			AND REGULATIONS OF R.A. 2164, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS
NO.	DESCRIPTION	APPROVED	DATE	NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL
				INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS
				RESPONSEELT TO THE APPROVING OFFICIALS.
				SHUJI KAKU TEAM LEADER
				TEAM EADER

CTi	CTI ENGINEERING INTERNATIONAL CO., LTD.
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DESIGNED BY:	CHECKED BY:	SUBMITTED BY:
EIJI MOKI	TOSHIKI KAWAKAMI	SHUJI KAKU
STRUCTURAL ENGINEER I	THE CHECKER	TEAM LEADER



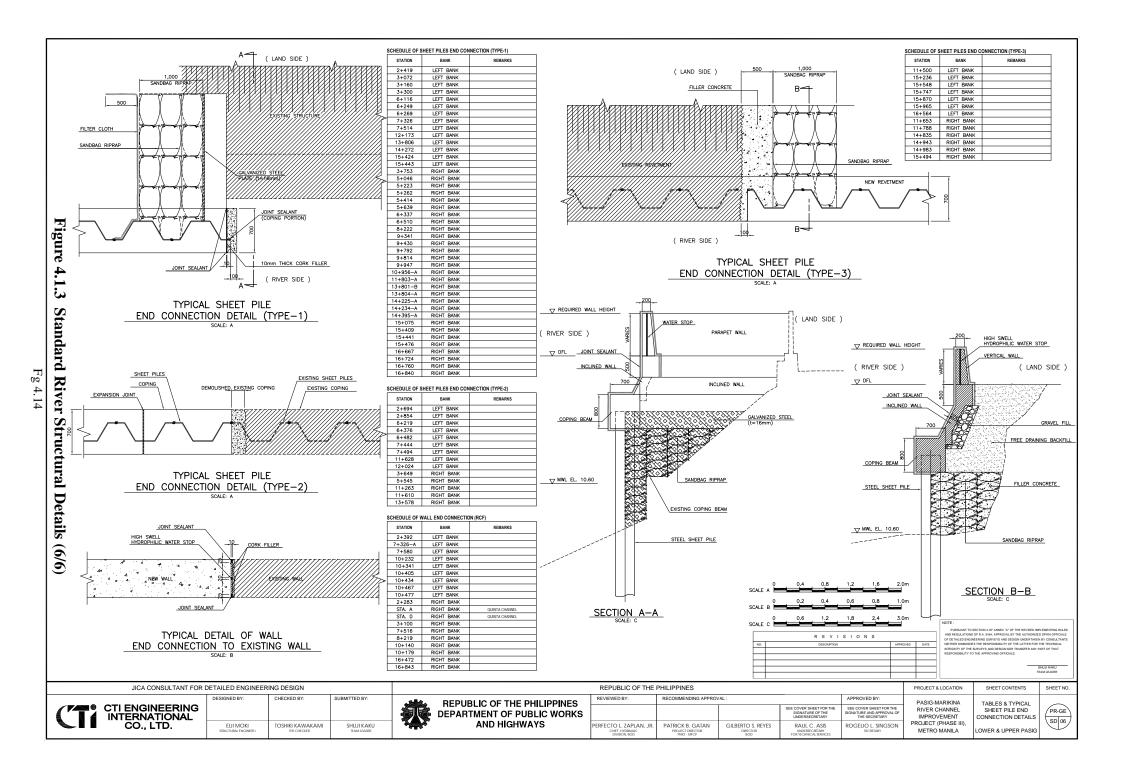
REPUBLIC OF THE PHILIPPINES												
REVIEWED BY:	RECOMMENDING APPROV	/AL:		APPROVED BY:	PA							
			SEE COVER SHEET FOR THE SIGNATURE OF THE UNDERSECRETARY	SEE COVER SHEET FOR THE SIGNATURE AND APPROVAL OF THE SECRETARY	RI II							
PERFECTO L. ZAPLAN, JR. CHIEF, HYDRAUJIC DIVISION, BOD	PATRICK B. GATAN PROJECT DIRECTOR PMO - MFCP	GILBERTO S. REYES DIRECTOR BOD	RAUL C. ASIS UNDERSECRETARY FOR TECHNICAL SERVICES	ROGELIO L. SINGSON SECRETARY	PRO M							

ROJECT & LOCATION	SHEET CONTENTS
PASIG-MARIKINA RIVER CHANNEL IMPROVEMENT ROJECT (PHASE III), METRO MANILA	TABLES AND DETAI OF VW AND PW

SHEET NO.

PR-GE

SD 05



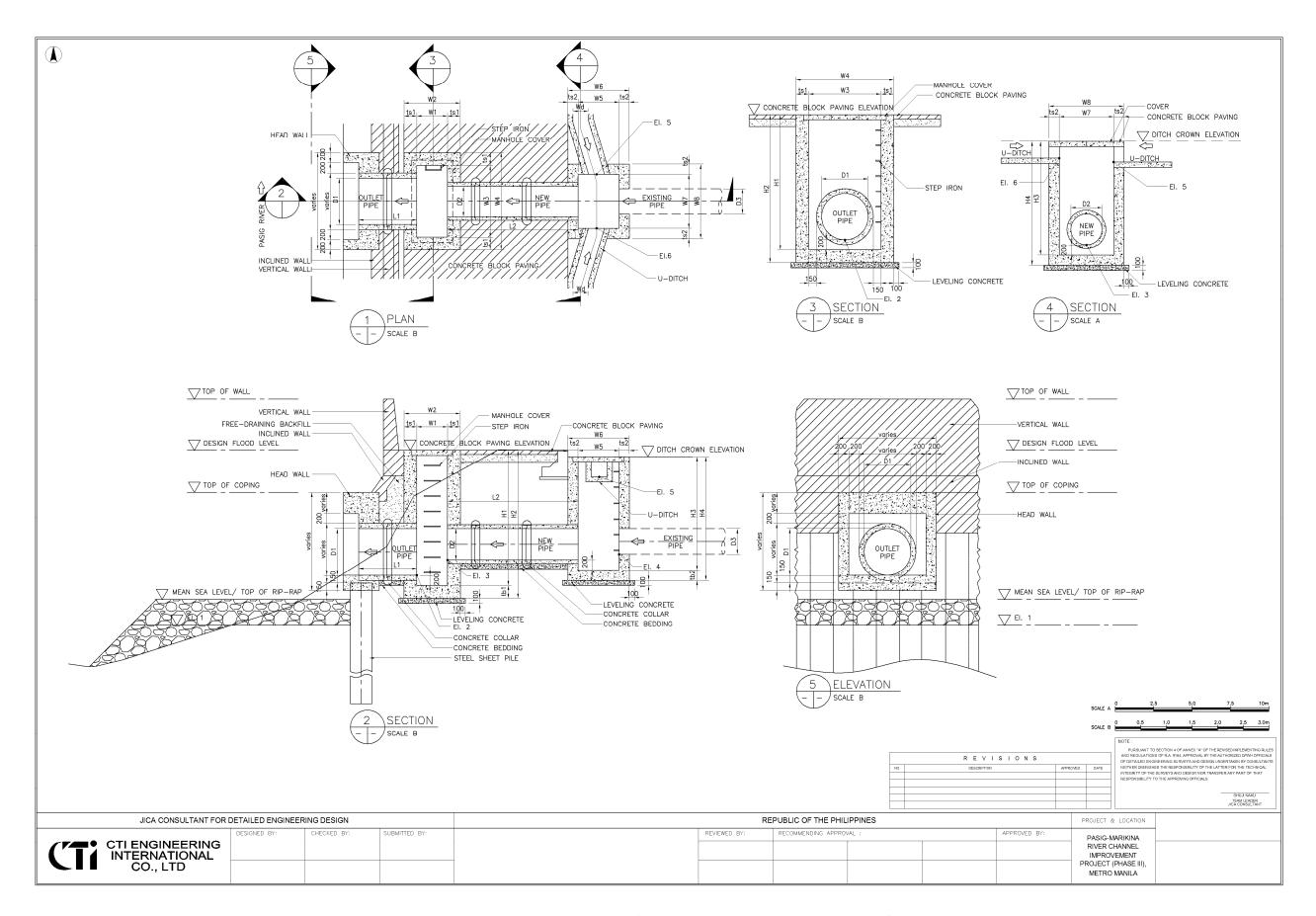


Figure 4.1.4 Typical Drawing of Drainage Facility in Pasig River (1/2)

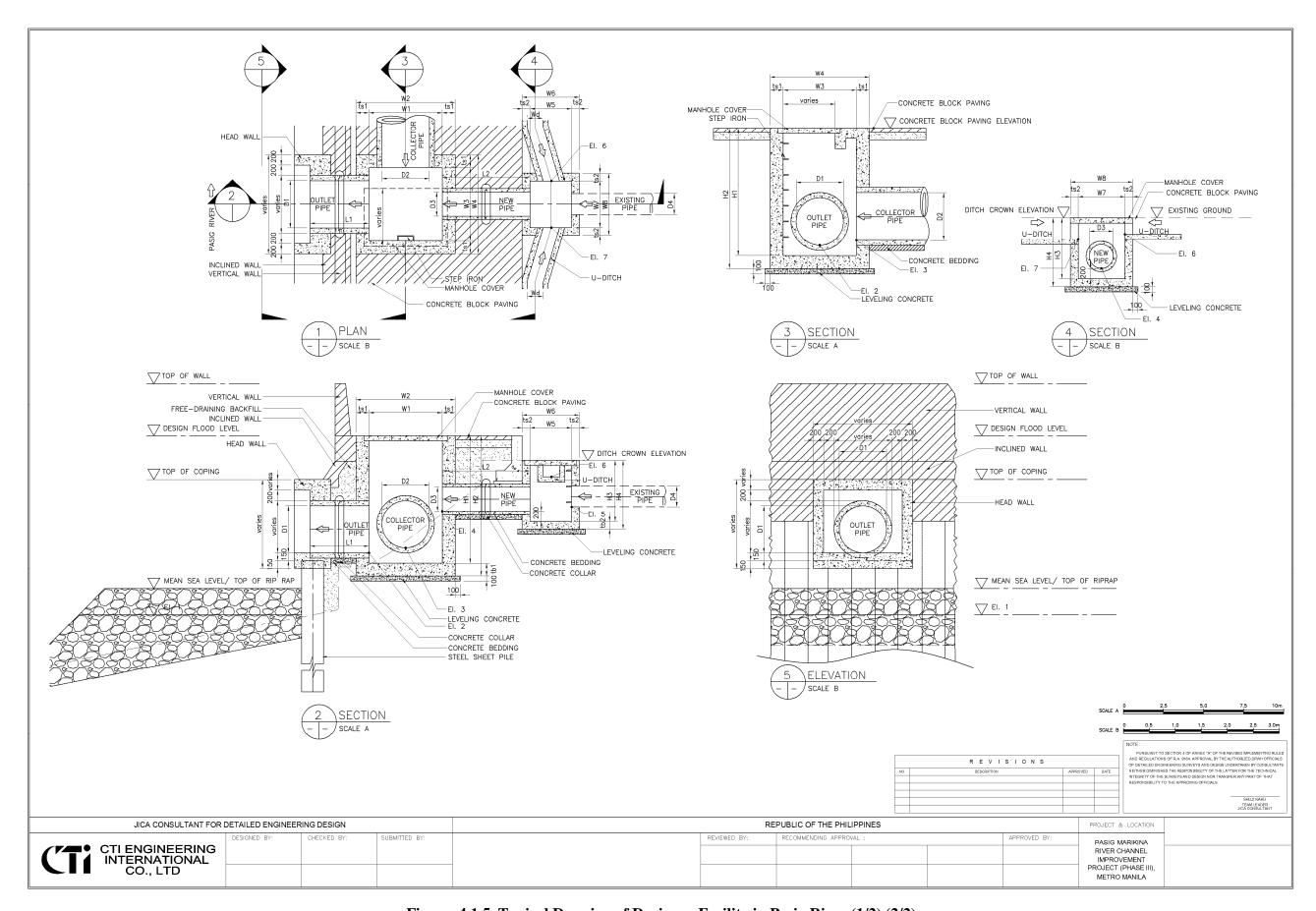


Figure 4.1.5 Typical Drawing of Drainage Facility in Pasig River (1/2) (2/2)

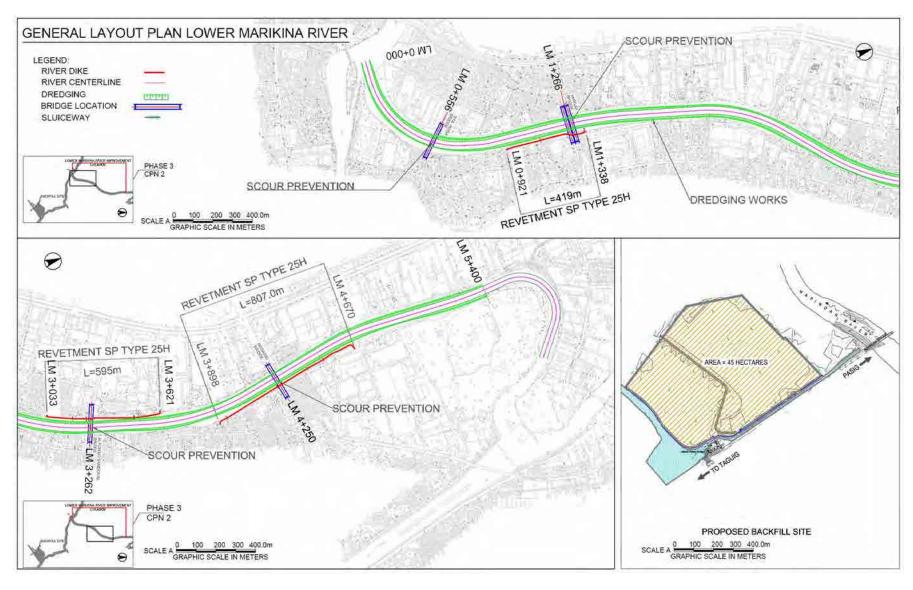


Figure 4.2.1 General Layout Plan(Lower Marikina River)

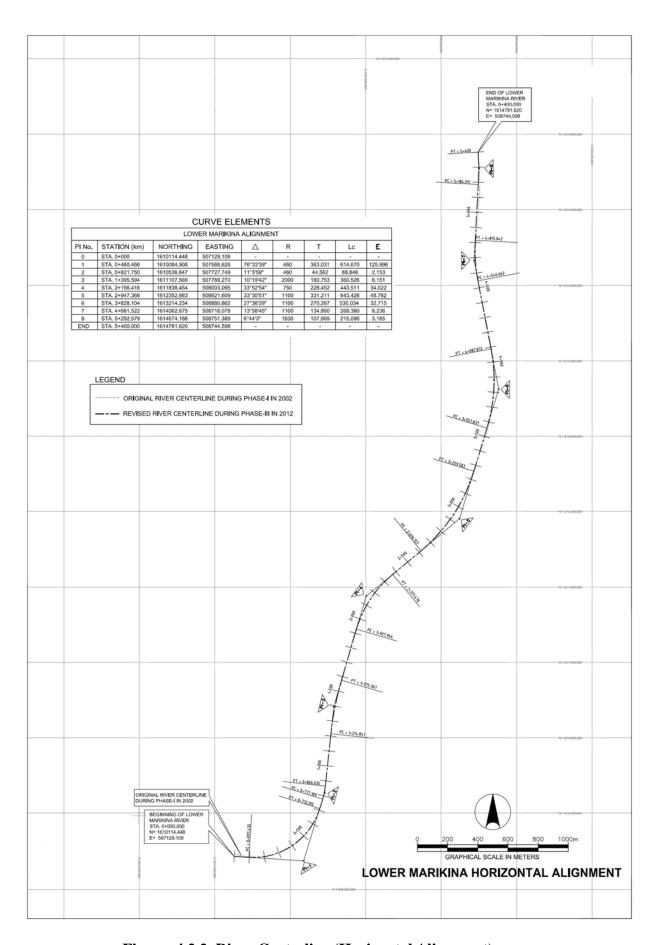


Figure 4.2.2 River Centerline (Horizontal Alignment)

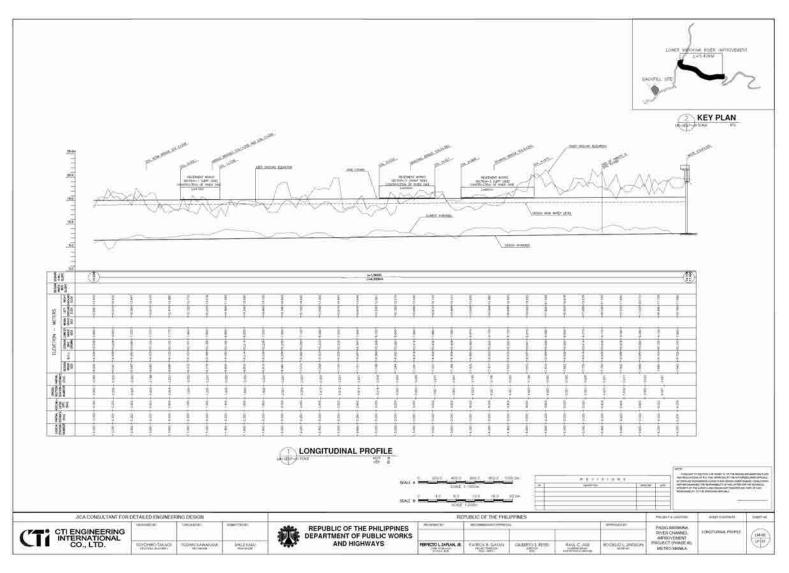


Figure 4.2.3 Longitudinal Profile

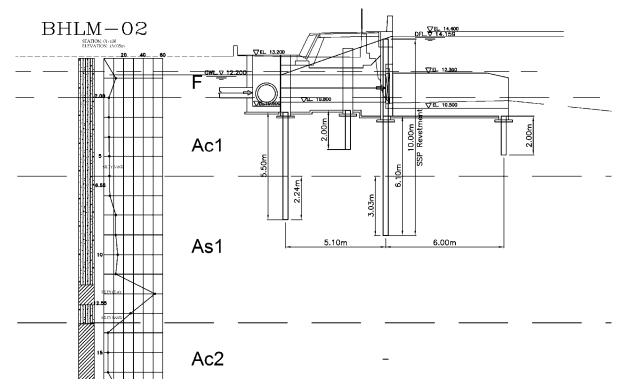


Figure 4.2.4 Length of SSP Cut off Wall (1/9) (MSL-1)

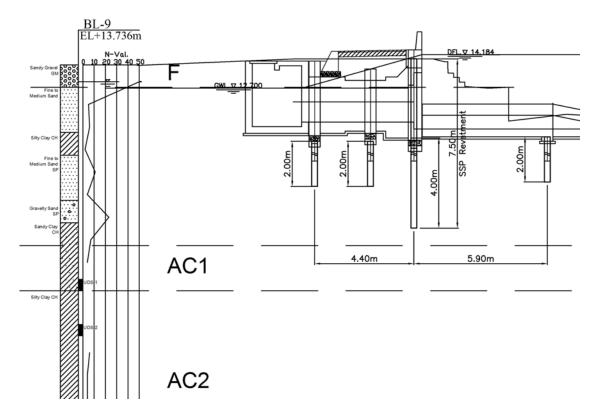


Figure 4.2.4 Length of SSP Cut off Wall (2/9) (MSL-2)

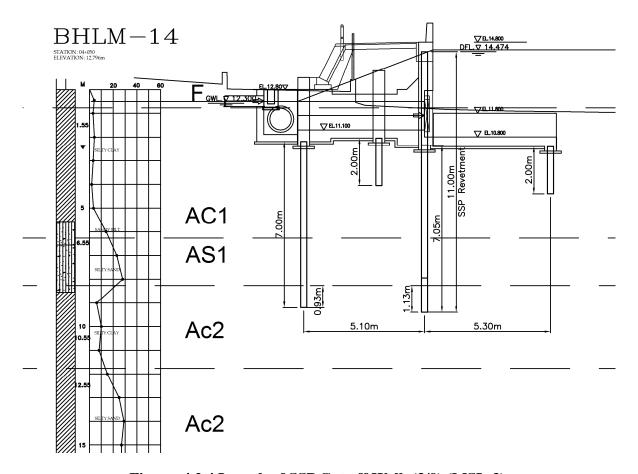


Figure 4.2.4 Length of SSP Cut off Wall (3/9) (MSL-3)

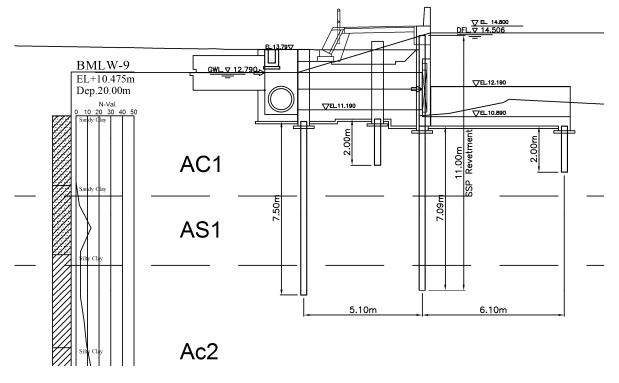


Figure 4.2.4 Length of SSP Cut off Wall (4/9) (MSL-4)

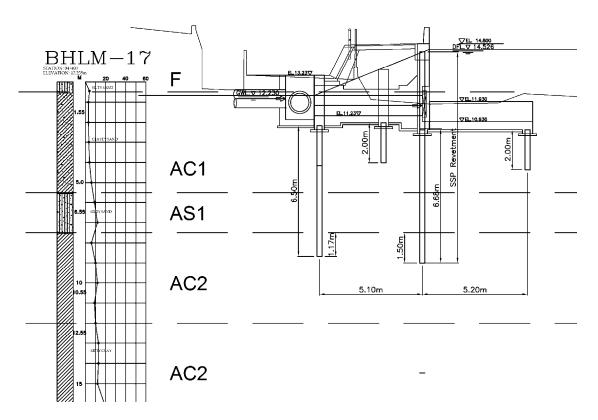


Figure 4.2.4 Length of SSP Cut off Wall (5/9) (MSL-5)

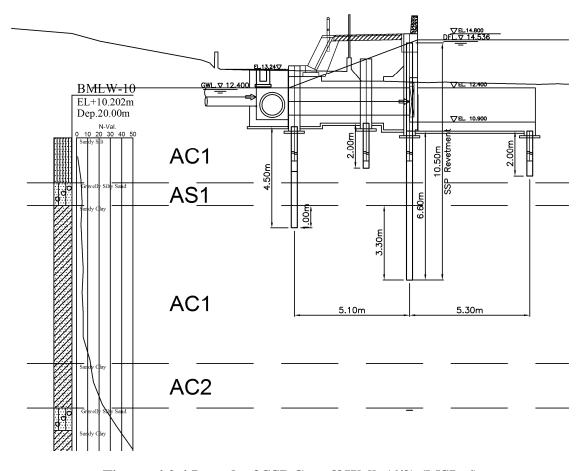


Figure 4.2.4 Length of SSP Cut off Wall (6/9) (MSL-6)

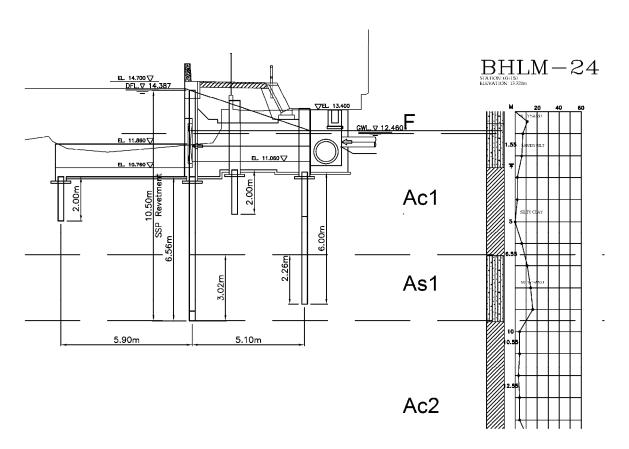


Figure 4.2.4 Length of SSP Cut off Wall (7/9) (MSR-2)

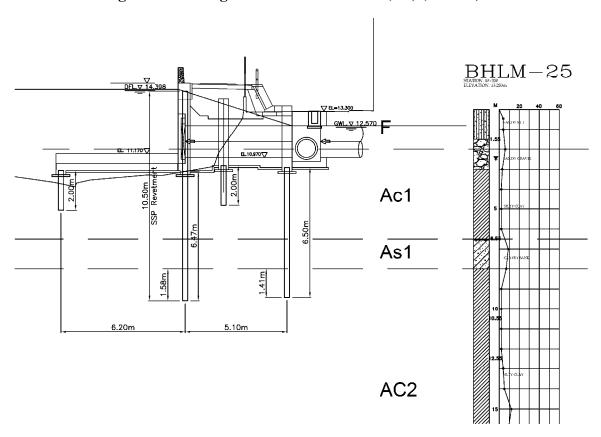


Figure 4.2.4 Length of SSP Cut off Wall (8/9) (MSR-3)

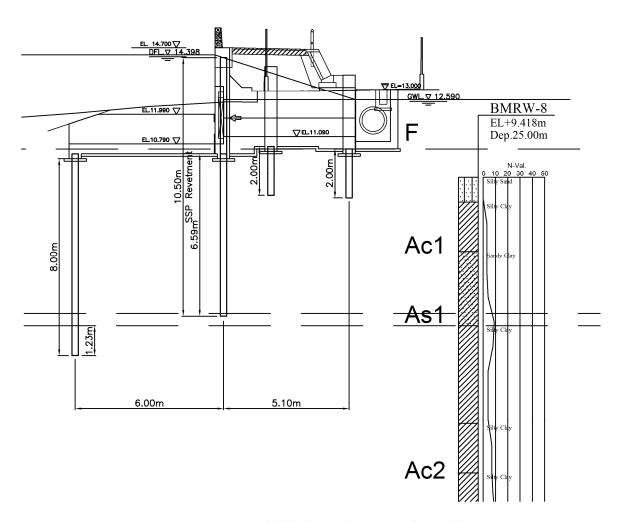


Figure 4.2.4 Length of SSP Cut off Wall (9/9) (MSR-4)

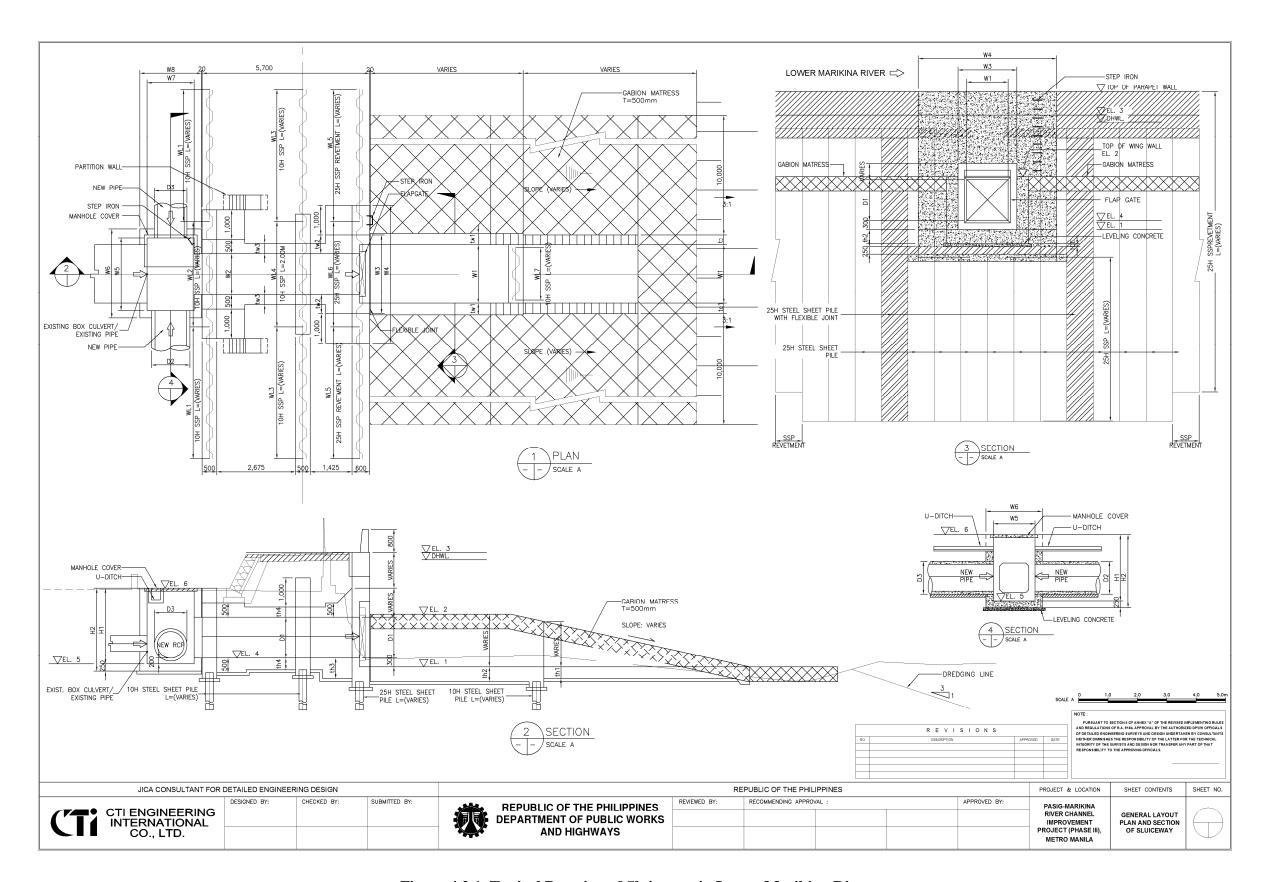


Figure 4.2 1 Typical Drawing of Sluiceway in Lower Marikina River



Figure 5.2.1 Sampling Stations of Soil

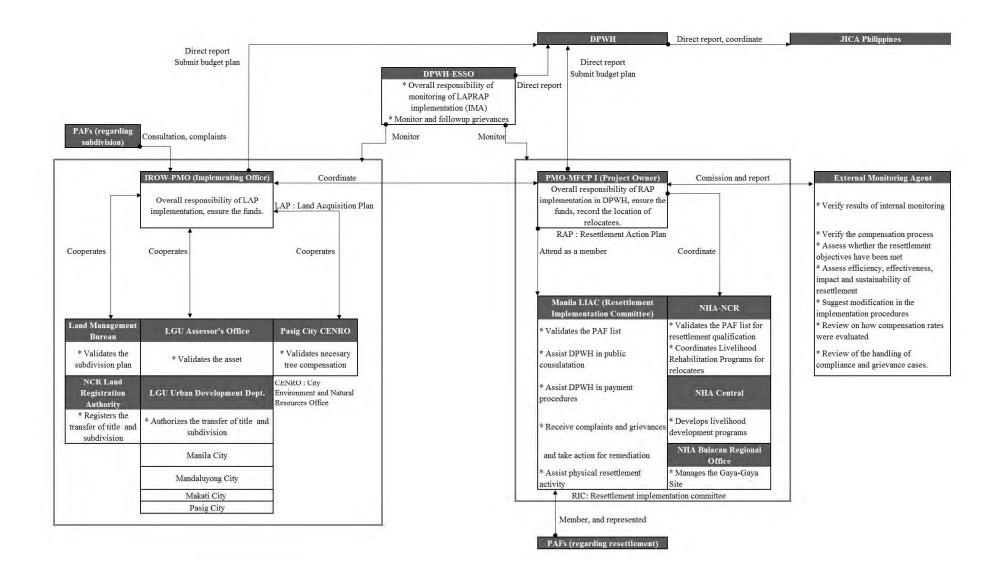


Figure 5.5.1 Institutional Organization for Implementation of Land Acquisition and Resettlement Action Plan

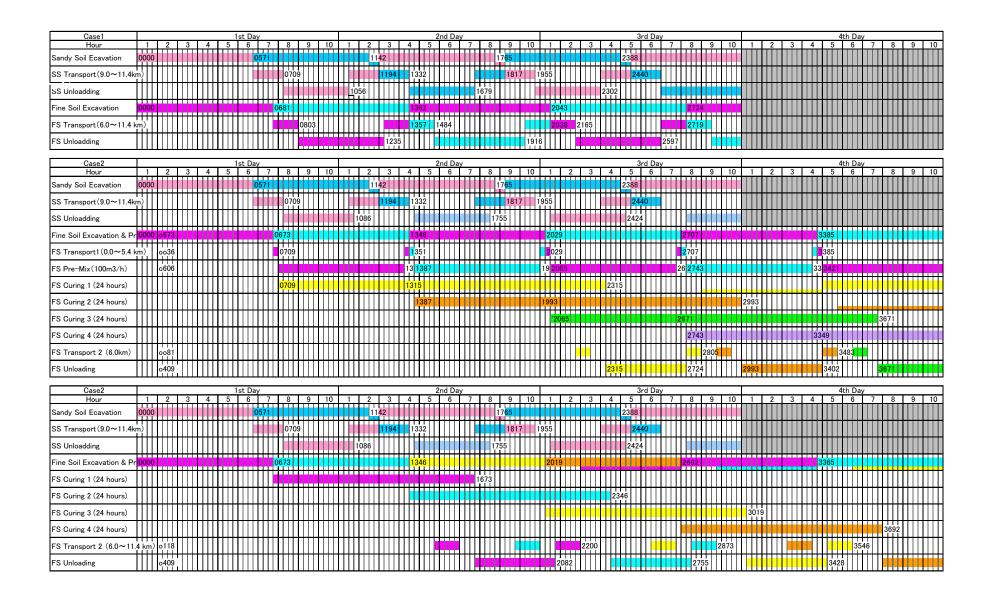


Figure 6.4.1 Working Ship Diagram Example

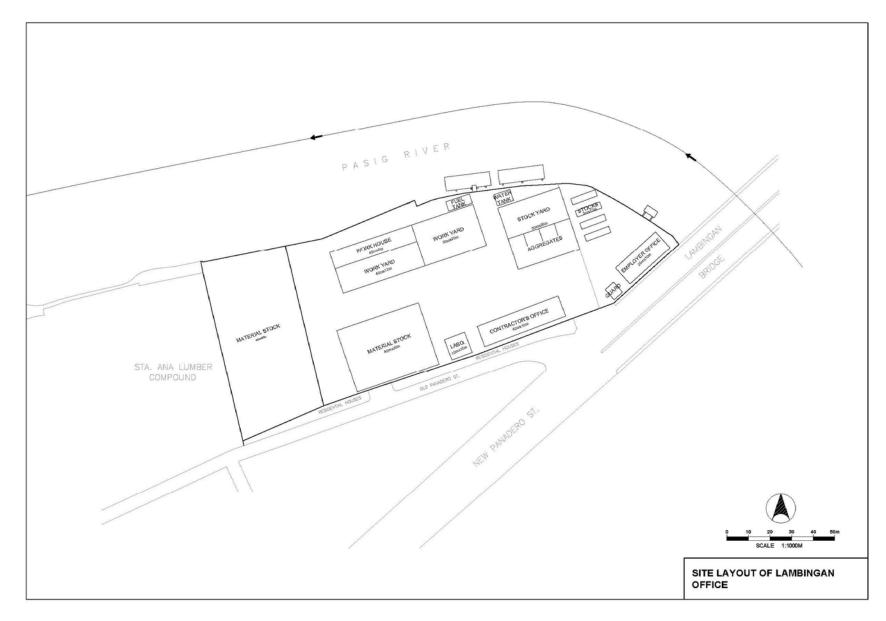


Figure 6.4.2 Lambingan Yard Layout Plan

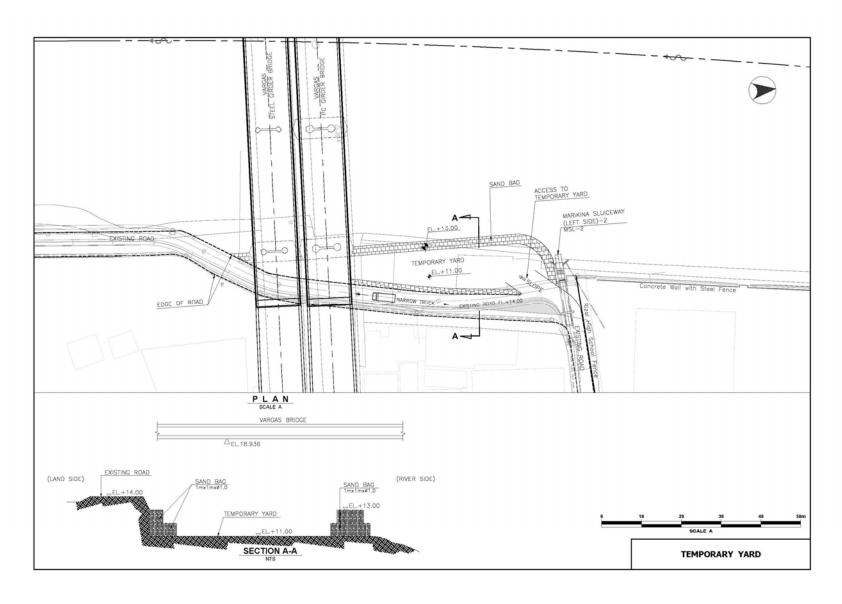


Figure 6.4.3 Marikina West Bank Yard Plan

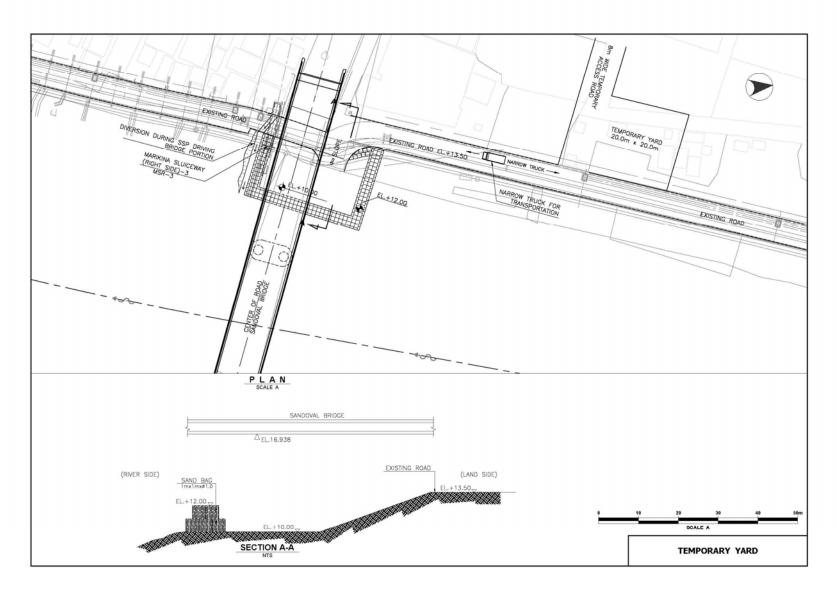


Figure 6.4.4 Marikina Middle Bank Yard Plan

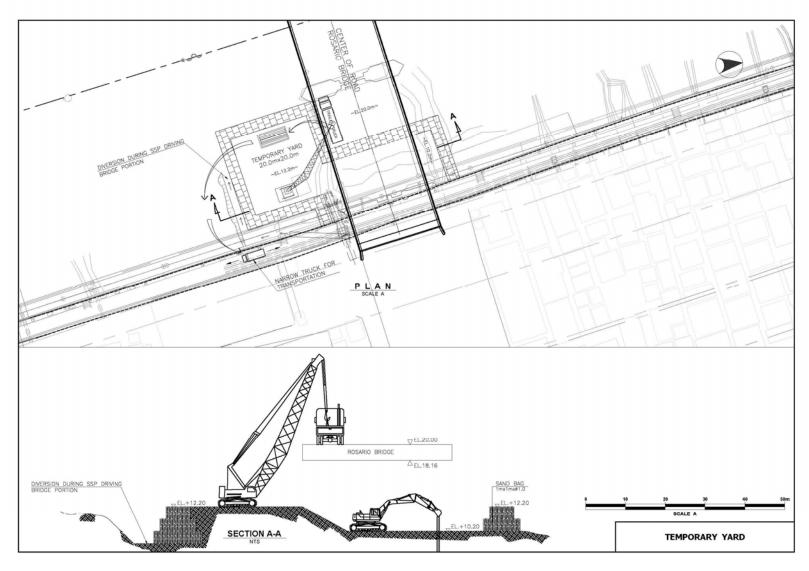


Figure 6.4.5 Marikina East Bank Yard Plan

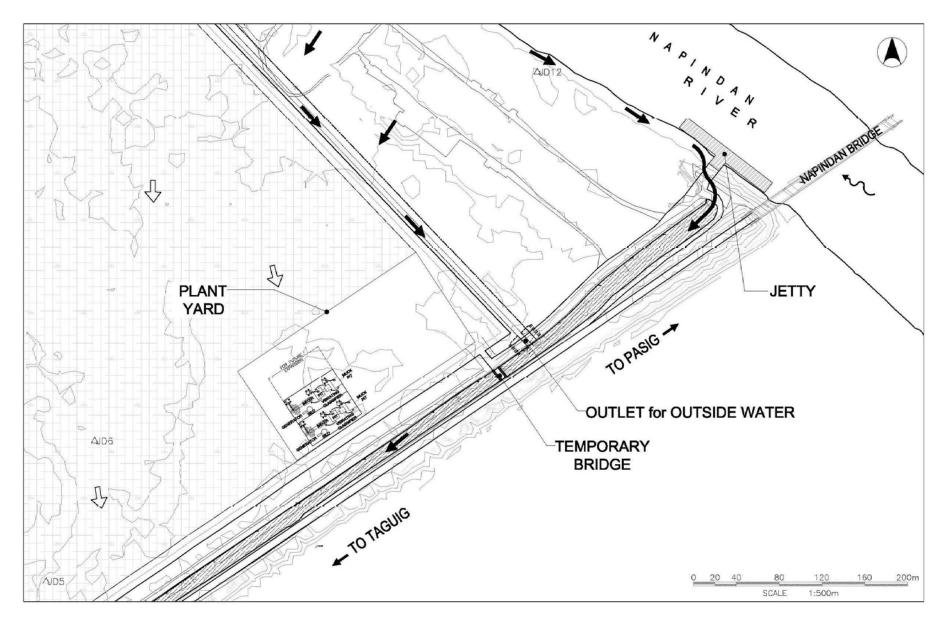
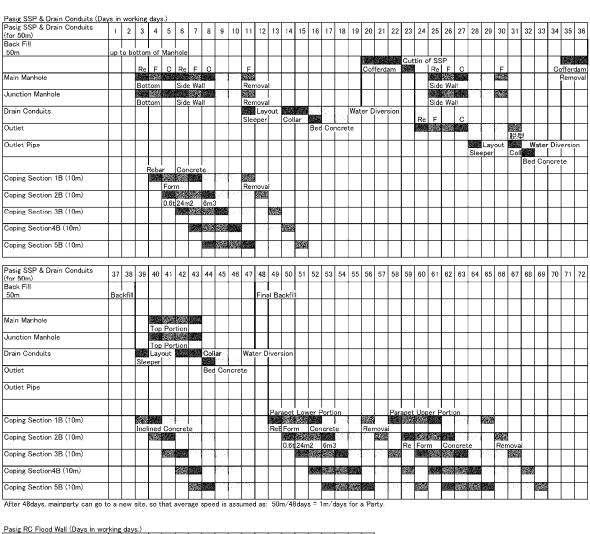


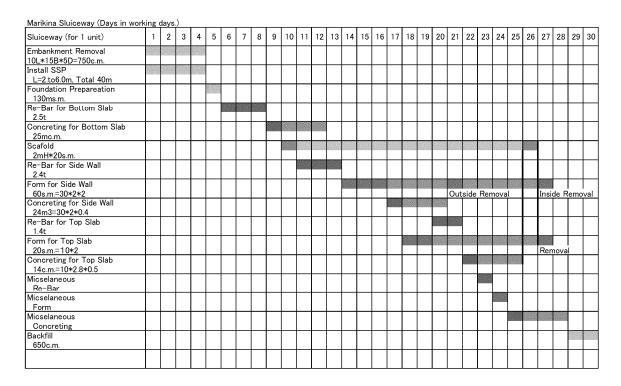
Figure 6.4.6 Disposal Site Yard Plant Plan

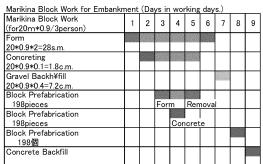


Pasig Parapett Wall	WOLKING			Γ.	Γ.		Γ.	_	_	40						4.0			40	۵.
(for 20m)] 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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for Lower Poriton						2171.00			_											
Form Works																				
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The team can go to another 20m portion every 6days, so that average speed is assumed as: 20m/6days = 3.33m/days for a Party

Figure 6.5.1 Details of Program for Pasig River





Average speed is assumed as: 60*0.9m2/9person/9day

Figure 6.5.2 Details of Program for Marikina River