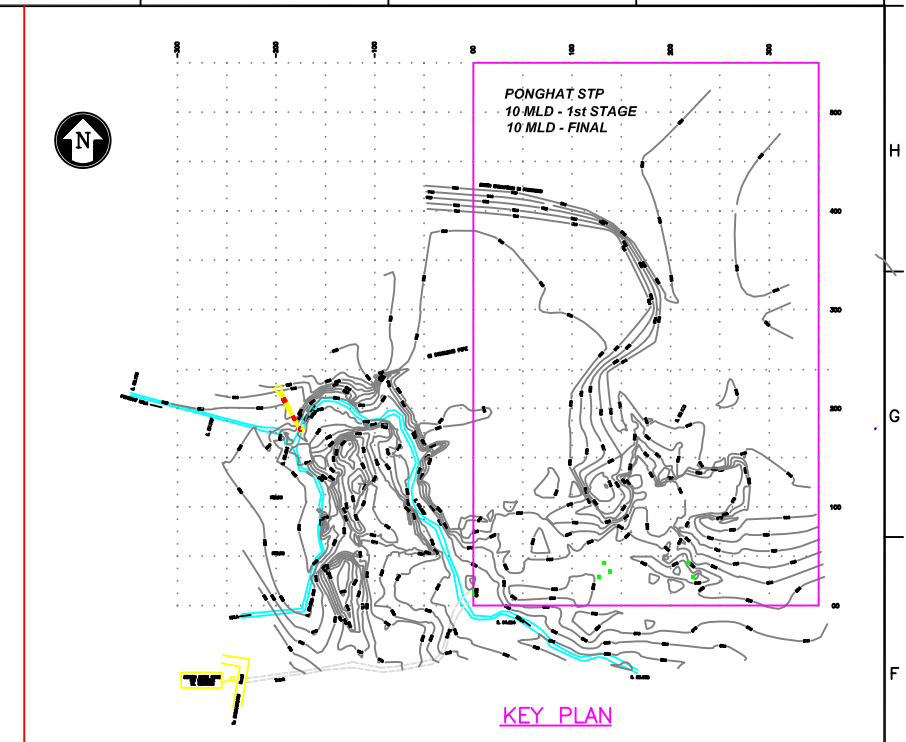
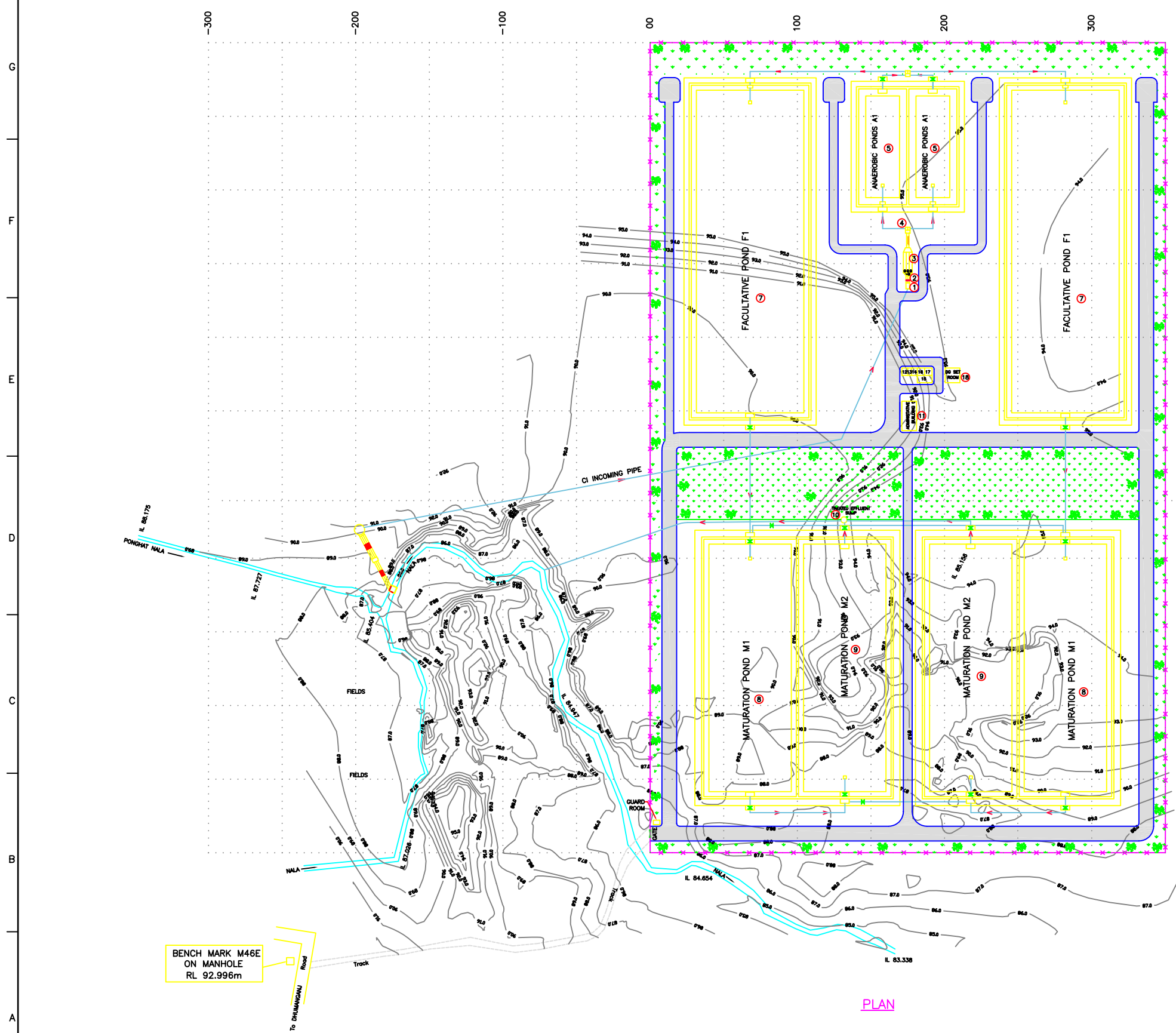


TYPICAL CROSS SECTION FOR PONDS AT PONGHAT NALA



KEY PLAN



PLAN

POND CROSS SECTION DIMENSION				
	ANEROBIC PONDS	FACULTATIVE PONDS	MATURATION PONDS	
NOS.	A1(2)	F1(2)	M1(2)	M2(2)
FINISHED GROUND LEVEL	92.000	92.000	91.000	91.000
INVERT LEVEL	90.100	91.128	90.673	90.632
FREE BOARD (F)	0.500	1.000	1.000	1.041
TOP WATER LEVEL	93.300	92.748	92.293	92.252
EMBANKMENT TOP LEVEL	93.800	93.748	93.293	93.293
POND INNER SIDE WIDTH (B1)	4.810	3.406	3.406	3.459
EMBANKMENT TOP WIDTH (B2)	1.500	1.500	1.500	1.500
EMBANKMENT OUTSIDE WIDTH(B3)	3.600	3.496	4.586	4.586
POND BOTTOM WIDTH (W1)	23.000	73.000	56.000	56.000
POND TOP WIDTH (W2)	32.620	79.812	62.812	62.919

- NOTES:**
- ALL DIMENSIONS & LEVELS ARE IN METER.
  - ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. DIMENSIONS ARE NOT TO BE SCALED.

- LEGEND :-**
- FENCING & BOUNDARY WALL

- REFERENCE DRAWING:**
- LAYOUT PLAN & SECTION REFER DRG.NO.-ALD-TP-E-PN-2
  - HYDRAULIC FLOW DIAGRAM REFER DRG. NO.-ALD-TP-E-PN-3
  - PRELIMINARY UNIT DRG. NO.-ALD-TP-E-PN-4
  - TYPICAL DETAILS OF POND & INLET/OUTLET ARRANGEMENT REFER DRG.NO.-ALD-TP-E-PN-5

REV. NO.	0	1	2	3	4
INST.					
ELEC.					
MECH.					
STRU.					
CIVIL					

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY: A.Bhatnagar  
 APPROVED BY: D.Sarkar

DRAWN: S.Mitra  
 DESIGNED: R.Mittal  
 SURVEYED: S.Sharma

SCALE: 1:1500  
 DATE: 06-01-05

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

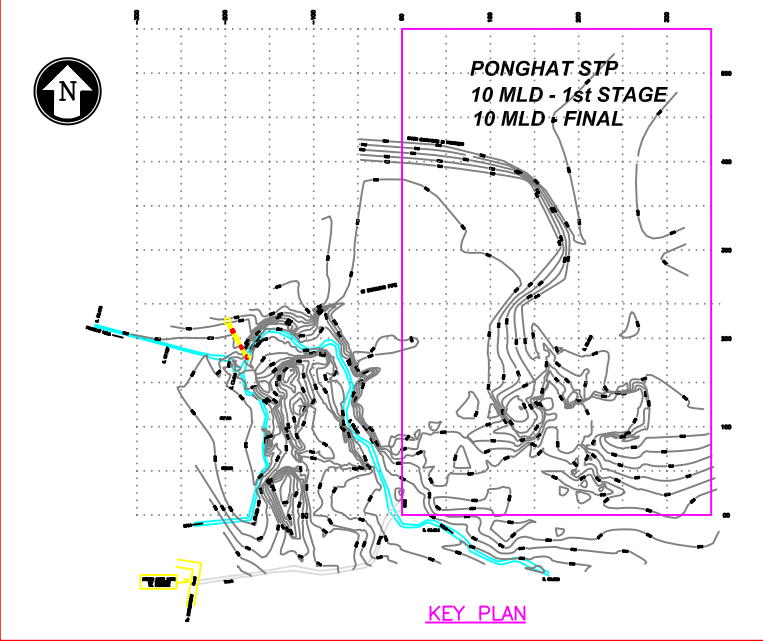
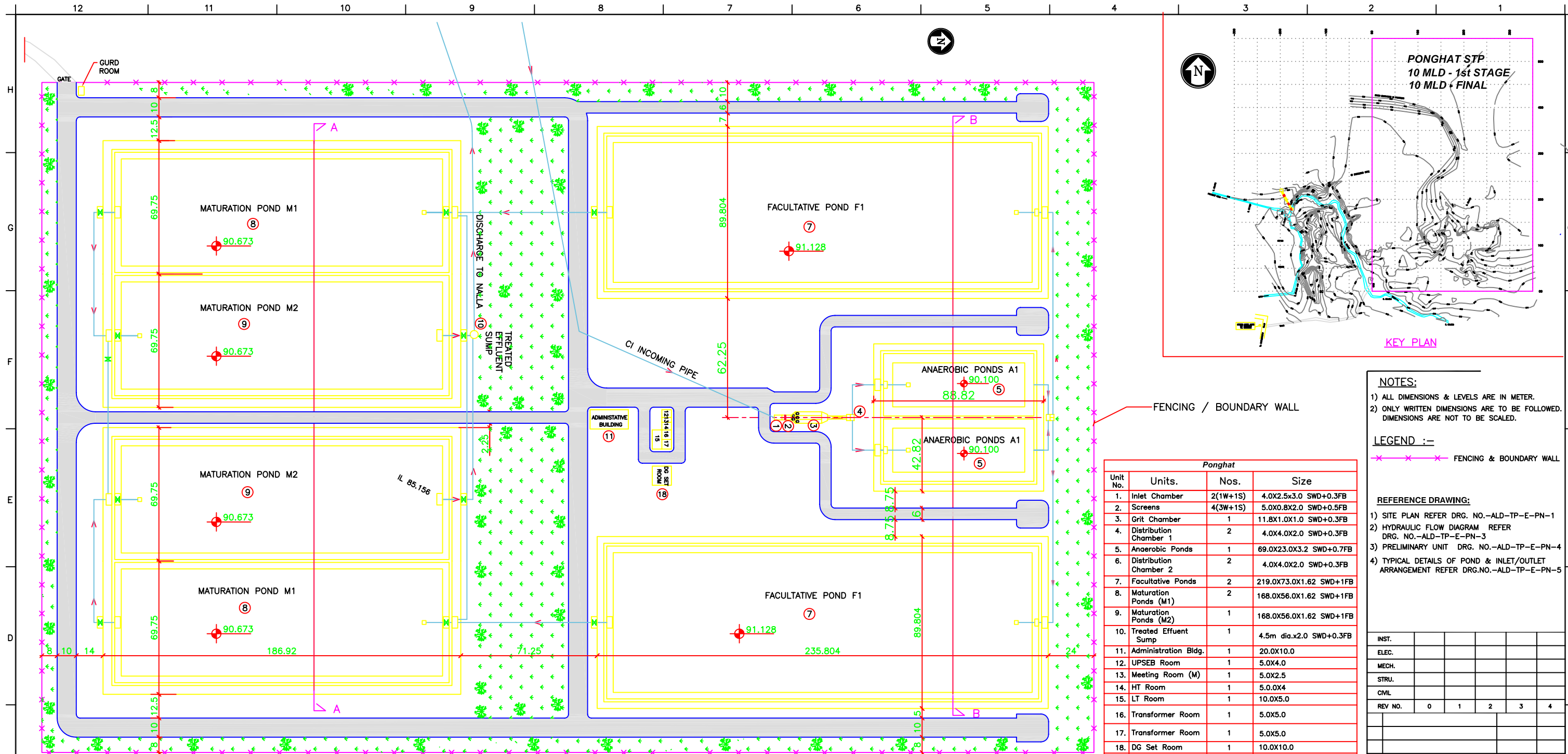
CONSULTANTS:  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CITI ENGINEERING INTERNATIONAL CO., LTD.  
 STUP CONSULTANTS LTD.

PROJECT:  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR ALLAHABAD CITY

CORRIDOR:  
 PONGHAT NALA - STP (1/5)

SHEET CONTENTS:  
 SITE PLAN

UNITS LIST			
Unit No.	Units.	Nos.	Size
1.	Inlet Chamber	2(1W+1S)	4.0X2.5X3.0 SWD+0.3FB
2.	Screens	4(3W+1S)	5.0X0.8X2.0 SWD+0.5FB
3.	Grit Chamber	1	11.8X1.0X1.0 SWD+0.3FB
4.	Distribution Chamber 1	2	4.0X4.0X2.0 SWD+0.3FB
5.	Anaerobic Ponds	1	69.0X23.0X3.2 SWD+0.7FB
6.	Distribution Chamber 2	2	4.0X4.0X2.0 SWD+0.3FB
7.	Facultative Ponds	2	219.0X73.0X1.62 SWD+1FB
8.	Maturation Ponds (M1)	2	168.0X56.0X1.62 SWD+1FB
9.	Maturation Ponds (M2)	1	168.0X56.0X1.62 SWD+1FB
10.	Treated Effluent Sump	1	4.5m dia.x2.0 SWD+0.3FB
11.	Administration Bldg.	1	20.0X10.0
12.	UPSEB Room	1	5.0X4.0
13.	Meeting Room	1	5.0X2.5
14.	HT Room	1	5.0X4
15.	LT Room	1	10.0X5.0
16.	Transformer Room	1	5.0X5.0
17.	Transformer Room	1	5.0X5.0
18.	DG Set Room	1	10.0X10.0



FENCING / BOUNDARY WALL

Ponghat			
Unit No.	Units.	Nos.	Size
1.	Inlet Chamber	2(1W+1S)	4.0X2.5X3.0 SWD+0.3FB
2.	Screens	4(3W+1S)	5.0X0.8X2.0 SWD+0.5FB
3.	Grit Chamber	1	11.8X1.0X1.0 SWD+0.3FB
4.	Distribution Chamber 1	2	4.0X4.0X2.0 SWD+0.3FB
5.	Anaerobic Ponds	1	69.0X23.0X3.2 SWD+0.7FB
6.	Distribution Chamber 2	2	4.0X4.0X2.0 SWD+0.3FB
7.	Facultative Ponds	2	219.0X73.0X1.62 SWD+1FB
8.	Maturation Ponds (M1)	2	168.0X56.0X1.62 SWD+1FB
9.	Maturation Ponds (M2)	1	168.0X56.0X1.62 SWD+1FB
10.	Treated Effluent Sump	1	4.5m dia.x2.0 SWD+0.3FB
11.	Administration Bldg.	1	20.0X10.0
12.	UPSEB Room	1	5.0X4.0
13.	Meeting Room (M)	1	5.0X2.5
14.	HT Room	1	5.0X4
15.	LT Room	1	10.0X5.0
16.	Transformer Room	1	5.0X5.0
17.	Transformer Room	1	5.0X5.0
18.	DG Set Room	1	10.0X10.0

- NOTES:**
- 1) ALL DIMENSIONS & LEVELS ARE IN METER.
  - 2) ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. DIMENSIONS ARE NOT TO BE SCALED.

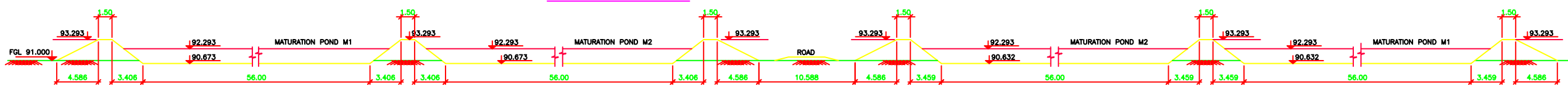
**LEGEND :-**

✕✕✕✕ FENCING & BOUNDARY WALL

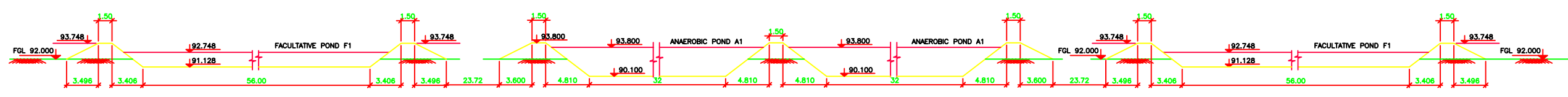
- REFERENCE DRAWING:**
- 1) SITE PLAN REFER DRG. NO.-ALD-TP-E-PN-1
  - 2) HYDRAULIC FLOW DIAGRAM REFER DRG. NO.-ALD-TP-E-PN-3
  - 3) PRELIMINARY UNIT DRG. NO.-ALD-TP-E-PN-4
  - 4) TYPICAL DETAILS OF POND & INLET/OUTLET ARRANGEMENT REFER DRG.NO.-ALD-TP-E-PN-5

REV. NO.	DESCRIPTION OF REVISIONS	DATE	CHECKED
0			
1			
2			
3			
4			

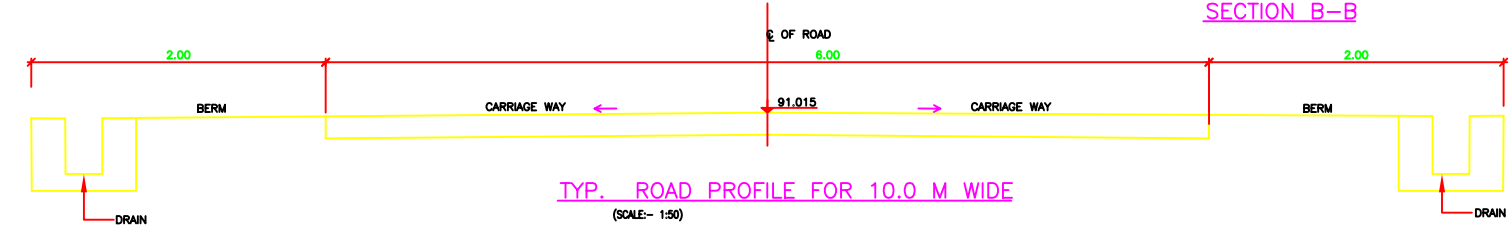
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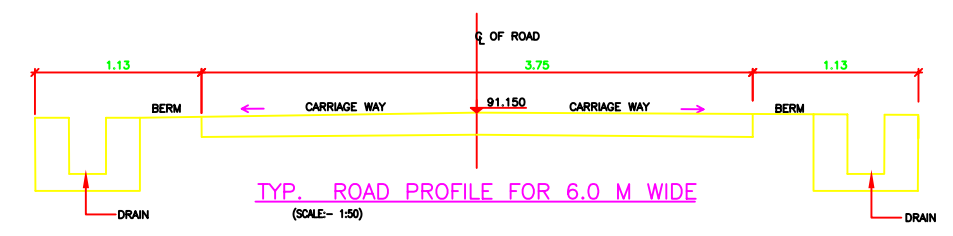
SECTION A-A



SECTION B-B



TYP. ROAD PROFILE FOR 10.0 M WIDE (SCALE- 1:50)



TYP. ROAD PROFILE FOR 6.0 M WIDE (SCALE- 1:50)

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY: A.Bhatnagar  
 APPROVED BY: D.Sarkar

DRAWN: S.Mitra  
 CHECK: R.Mittal  
 APPROVE: S.Sharma

DESIGNED: R.Mittal  
 SCALE: 1:1000

SURVEYED: S.Sharma  
 DATE: 06-01-05

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

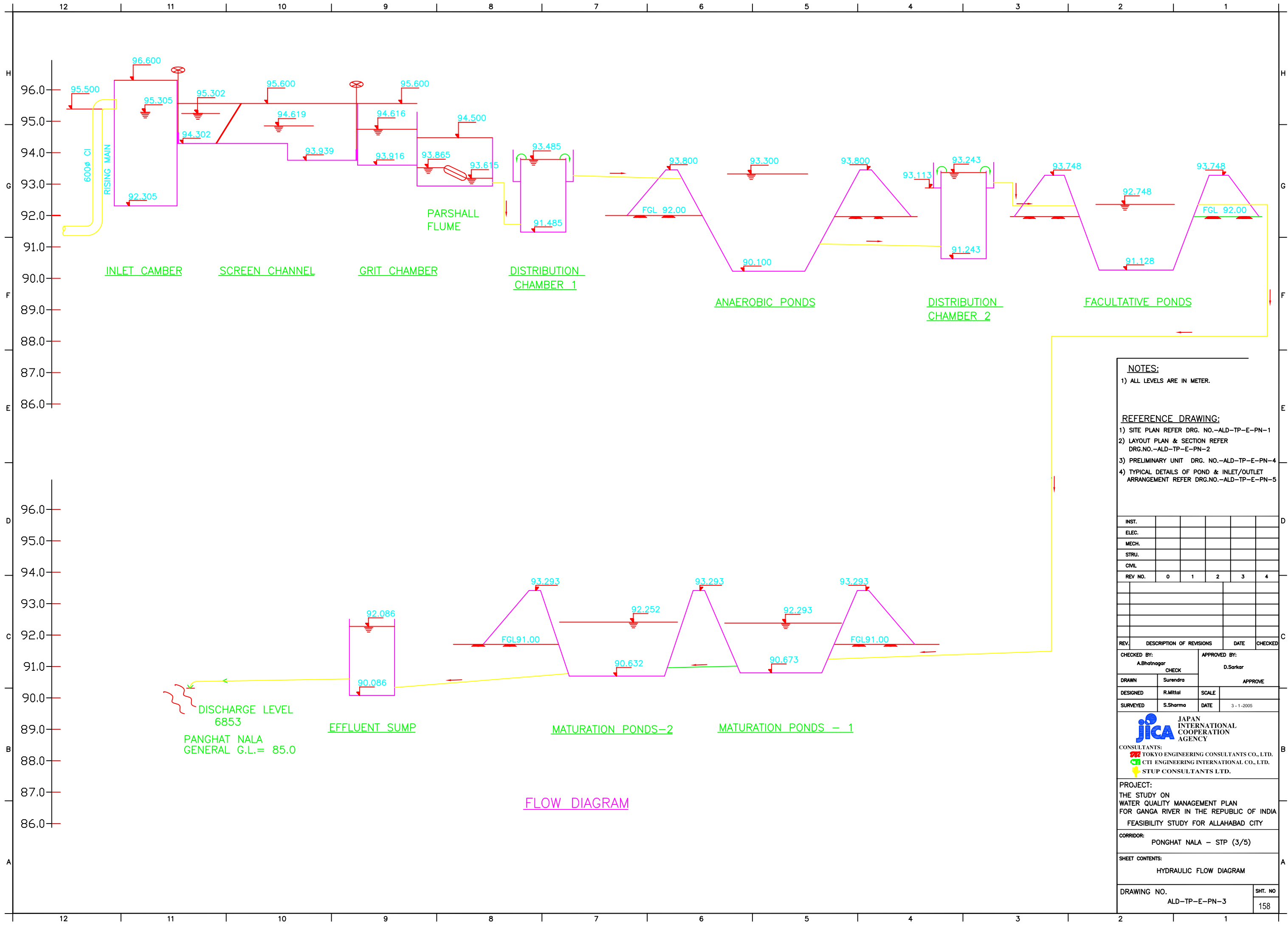
CONSULTANTS:  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTL ENGINEERING INTERNATIONAL CO., LTD.  
 STUP CONSULTANTS LTD.

**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR ALLAHABAD CITY

**CORRIDOR:**  
 PONGHAT NALA - STP (2/5)

**SHEET CONTENTS:**  
 LAYOUT PLAN & SECTION

DRAWING NO. ALD-TP-E-PN-2  
 SHT. NO. 157



FLOW DIAGRAM

**NOTES:**  
 1) ALL LEVELS ARE IN METER.

**REFERENCE DRAWING:**  
 1) SITE PLAN REFER DRG. NO.-ALD-TP-E-PN-1  
 2) LAYOUT PLAN & SECTION REFER DRG.NO.-ALD-TP-E-PN-2  
 3) PRELIMINARY UNIT DRG. NO.-ALD-TP-E-PN-4  
 4) TYPICAL DETAILS OF POND & INLET/OUTLET ARRANGEMENT REFER DRG.NO.-ALD-TP-E-PN-5

INST.					
ELEC.					
MECH.					
STRU.					
CIVIL					
REV NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY: A.Bhatnagar		APPROVED BY: D.Sarkar	
DRAWN Suresh		SCALE AS SHOWN	
DESIGNED R.Mittal		DATE 3-1-2005	
SURVEYED S.Sharma			

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

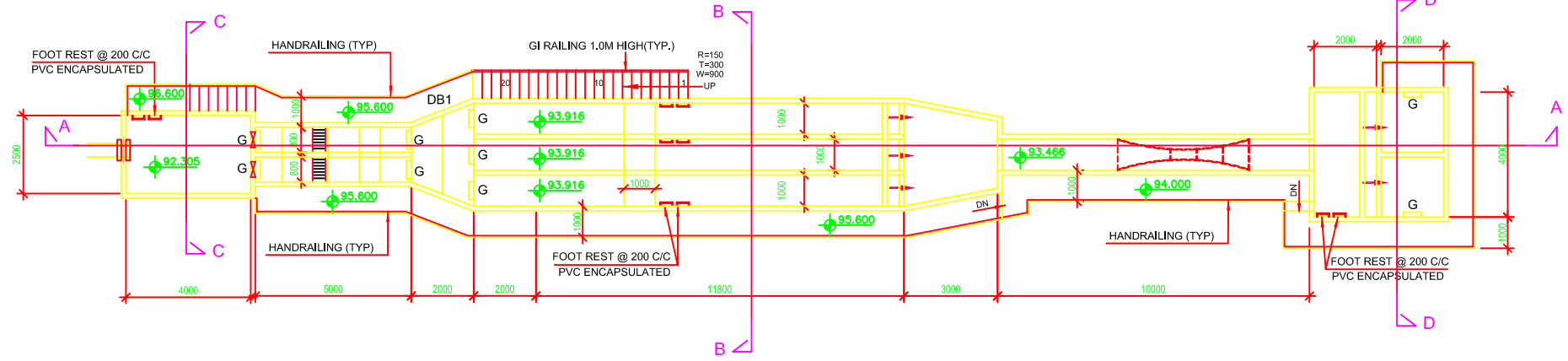
CONSULTANTS:  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTL ENGINEERING INTERNATIONAL CO., LTD.  
 STUP CONSULTANTS LTD.

PROJECT:  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR ALLAHABAD CITY

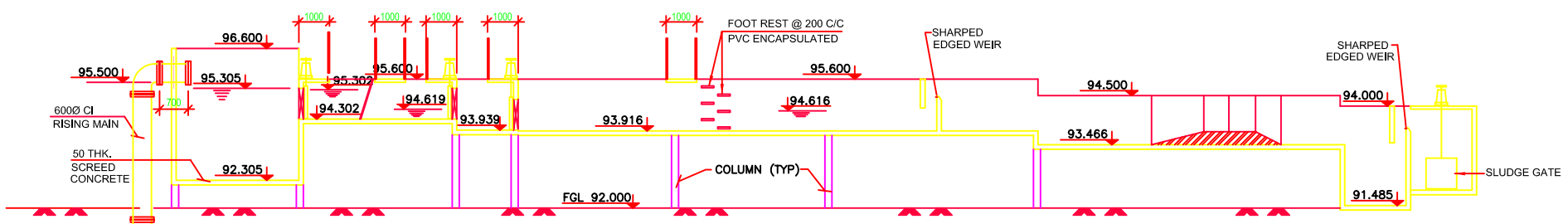
CORRIDOR:  
 PONGHAT NALA - STP (3/5)

SHEET CONTENTS:  
 HYDRAULIC FLOW DIAGRAM

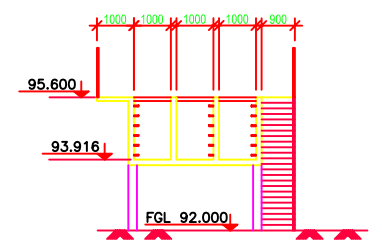
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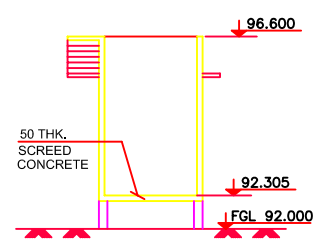
PLAN



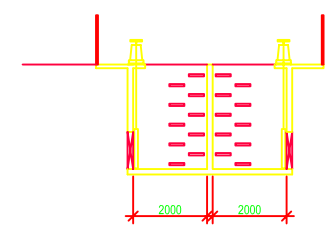
SECTION A-A



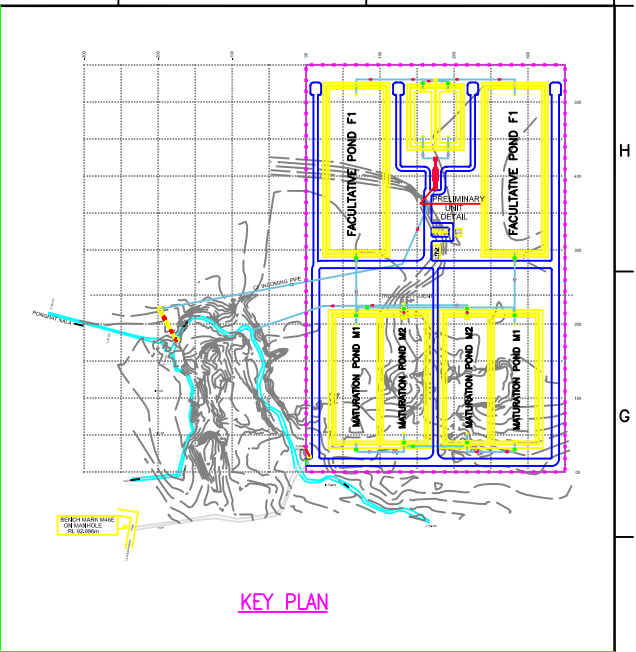
SECTION B-B



SECTION C-C



SECTION D-D



KEY PLAN

- NOTES:**
- 1) ALL DIMENSIONS & LEVELS ARE IN METER.
  - 2) ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. DIMENSIONS ARE NOT TO BE SCALED.

- REFERENCE DRAWING:**
- 1) SITE PLAN REFER DRG. NO.-ALD - TP - E - PN - 1
  - 2) LAYOUT PLAN & SECTION REFER DRG. NO.- ALD - TP - E - PN - 2
  - 3) HYDRAULIC FLOW DIAGRAM REFER DRG. NO.- ALD - TP - E - PN - 3
  - 4) TYPICAL DETAILS OF POND & INLET/OUTLET ARRANGEMENT REFER DRG.NO.-ALD-TP-E-PN-5

INST.					
ELEC.					
MECH.					
STRU.					
CIVIL					
REV. NO.	0	1	2	3	4

CHECKED BY:	A.Bhatnagar	CHECK	APPROVED BY:	D.Sarkar	APPROVE
DRAWN	S.Mitra	CHECK	SCALE	1:100	
DESIGNED	R.Mittal	SCALE	DATE	03-01-2005	
SURVEYED	S.Sharma	DATE			

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

CONSULTANTS:

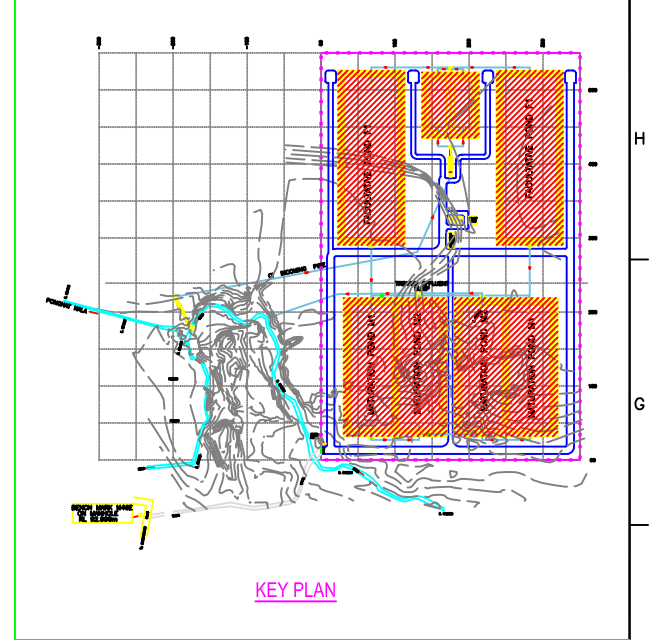
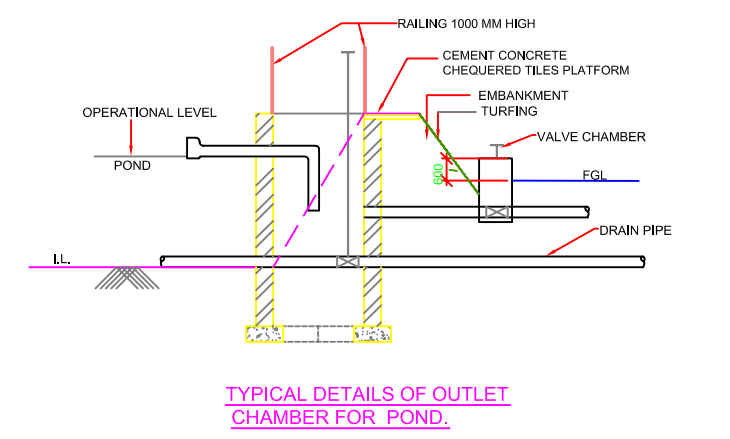
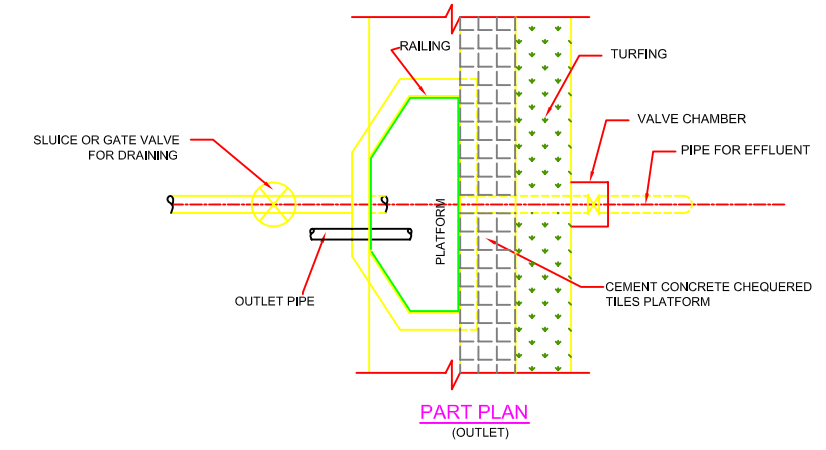
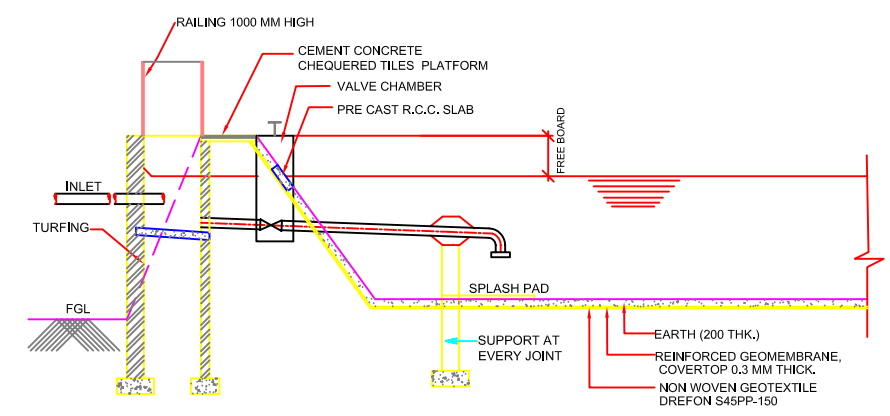
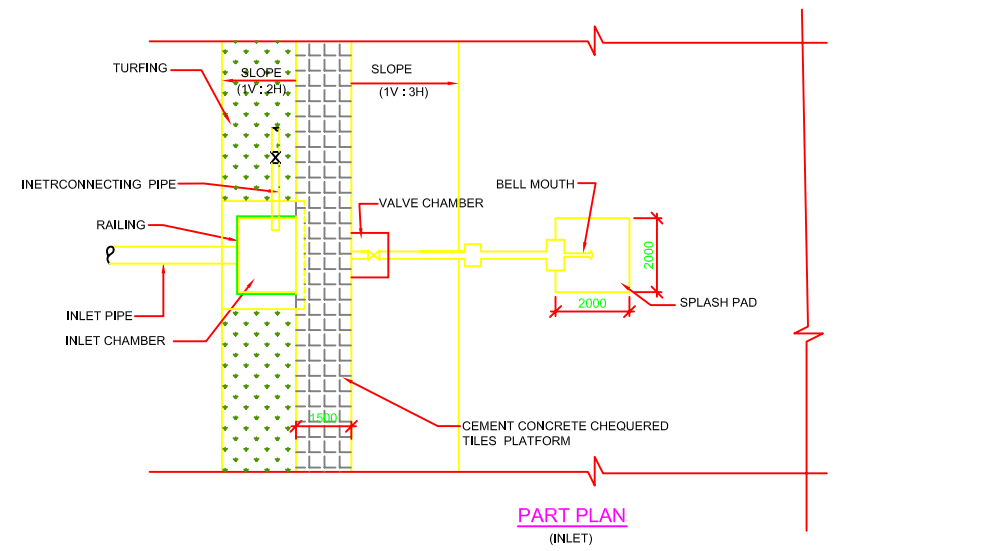
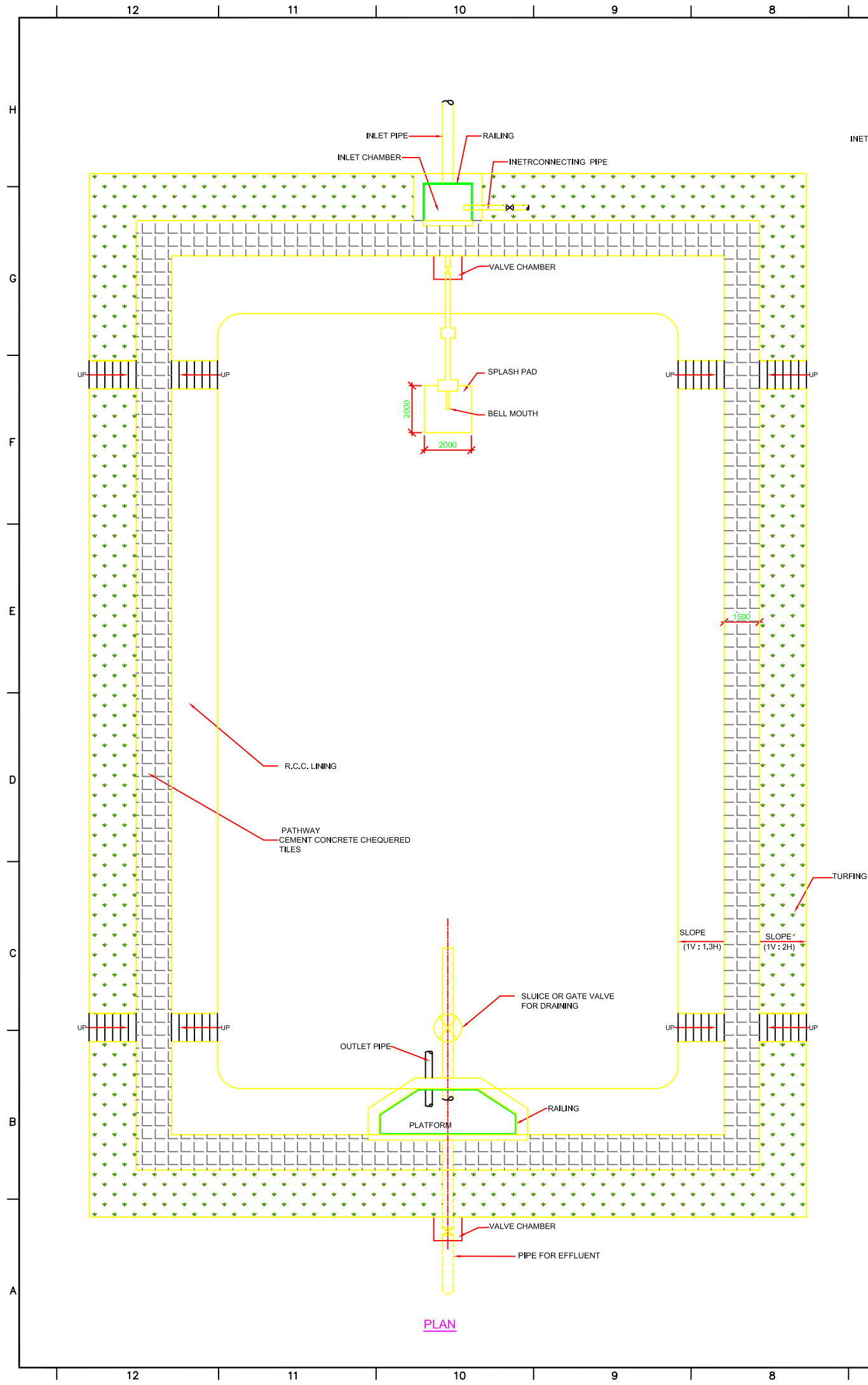
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR ALLAHABAD CITY

**CORRIDOR:**  
 PONGHAT NALA - STP (4/5)

**SHEET CONTENTS:**  
 PRELIMINARY UNITS (PLAN AND SECTION)

DRAWING NO.	ALD - TP - E - PN - 4	SHT. NO.	159
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- NOTES:**
- 1) ALL DIMENSIONS ARE IN MILLIMETER.
  - 2) ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. DIMENSIONS ARE NOT TO BE SCALED.
- REFERENCE DRAWING:**
- 1) SITE PLAN REFER DRG. NO.-ALD-TP-E-PN-1
  - 2) LAYOUT PLAN & SECTION REFER DRG. NO.- ALD-TP-E-PN-2
  - 3) HYDRAULIC FLOW DIAGRAM REFER DRG. NO.- ALD-TP-E-PN-3
  - 4) PRELIMINARY UNIT DRG. NO.-ALD-TP-E-PN-4

INST.					
ELEC.					
MECH.					
STRU.					
CIVIL					
REV NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY: A.Bhatnagar	APPROVED BY: D.Sarkar
DESIGNED BY: R.Mittal	SCALE: 1:100
DRAWN BY: M.Pahuja	APPROVE
SURVEYED	DATE: 06-01-05

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

CONSULTANTS:

**PROJECT:**  
THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR ALLAHABAD CITY

**CORRIDOR:**  
PONGHAT NALA - STP (5/5)

**SHEET CONTENTS:**  
TYPICAL DETAILS OF POND AND INLET / OUTLET ARRANGEMENT

**DRAWING NO.**  
ALD-TP-E-PN-5

**SHT. NO.**  
160