

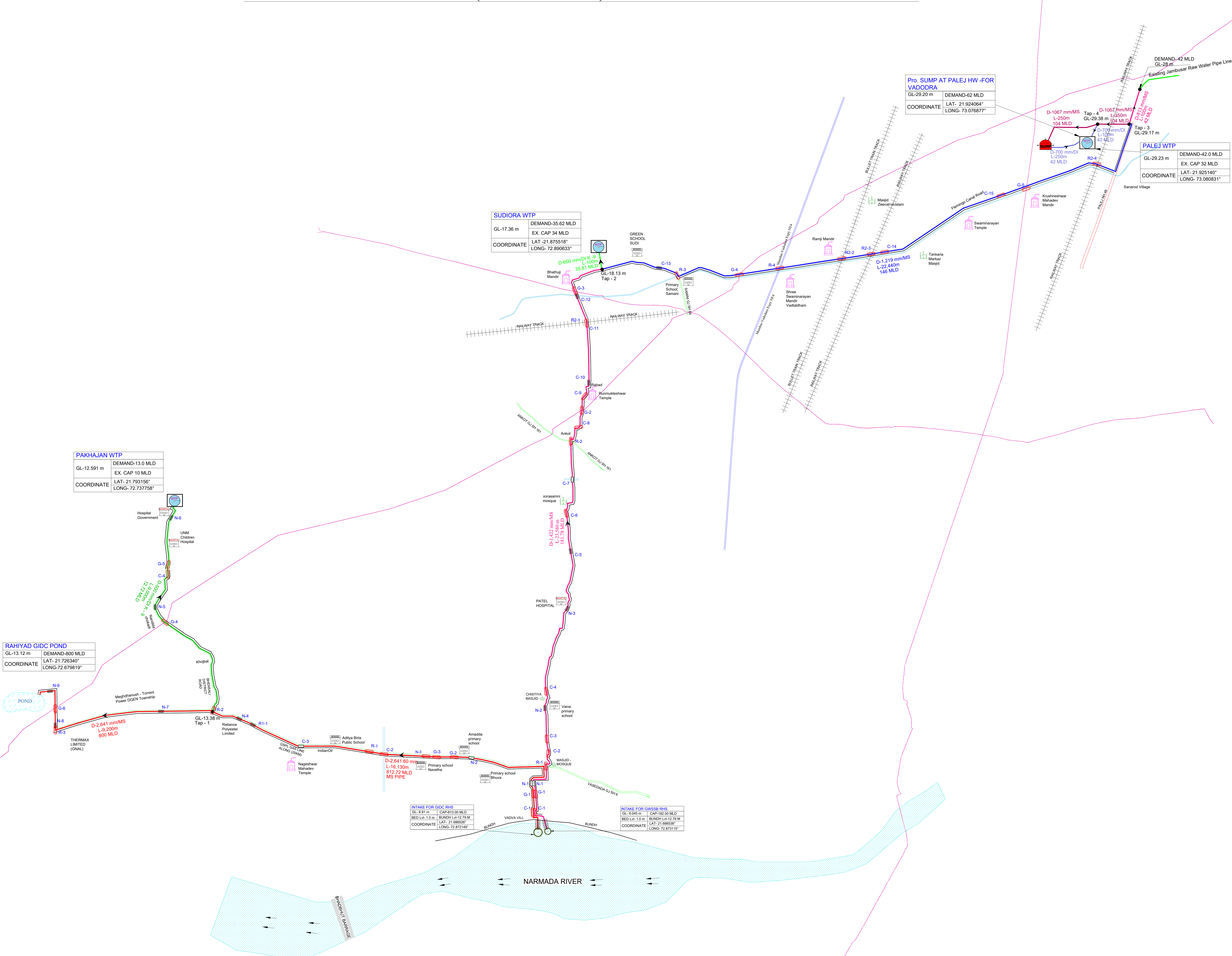
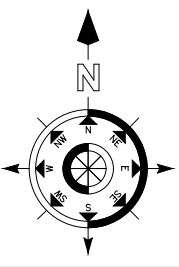
Water Supply Scheme Based on Bhadbhut Barrage for Industries (GIDC) and Rural Areas of Bharuch, Surat & Vadodara Districts

Part 1: (A & B) RHS - Bharuch (GWSSB+GIDC)

VOLUME – IV: DRAWING

Sr No	Description
1	Index Map
2	Schematic
3	Intake Well With Pump House & Approach Bridge
4	Palej Sump
5	Typical Drawing of Main Gate
6	Typical Drawing of Compound Wall
7	Typical Drawing of Security Cabin
8	Typical Drawing of Staff Quarters
9	Typical Drawing of Pipe Trench
10	Typical Drawing of Encasing
11	Typical Drawing of River Crossing Bridge
12	Typical Drawing of Canal / Nala Crossing Bridge
13	Typical Drawing of Valve Chamber
14	Typical Drawing of Thrust Block
15	Typical Drawing of Air Valve
16	Typical Drawing of Box Culvert

INDEX MAP OF BHARUCH (GIDC+GWSSB) RAW WATER TRANSMISSION MAIN



LEGENDS

Sr. No.	SYMBOL	DESCRIPTION
01		HDD CROSSING
02		WTP /SUMP / ESR
03		TAPPING NO / FLOW ARROW
04		CANANL/ NALA
05		SH ROAD
06		NH ROAD
07		EXP HIGHWAY
08		RAILWAY TRACK
09		SCHOOL/TEMPLE/MOSQUE
10		P.STATION/HOSPITAL/OFFICE
11		AIR VALVE/SCOUR VALVE
12		PIPE CARRYING STRUCTURE
13		WATER BODY
14		GAIL CROSS
15		CANANL CROSSING
16		NALA CROSSING
17		ROAD CROSSING
18		RIVER CROSSING
19		RAILWAY CROSSING
20		GAIS LINE CROSSING

PROJECT:-

Water Supply Scheme Based on Bhadbhut Barrage for Industries (GIDC) and Rural Areas of Bharuch, Surat & Vadodara Districts

CLIENT:-

GWSSB

TECHNICAL APPROVAL :-

GWSSB

PMC:-IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

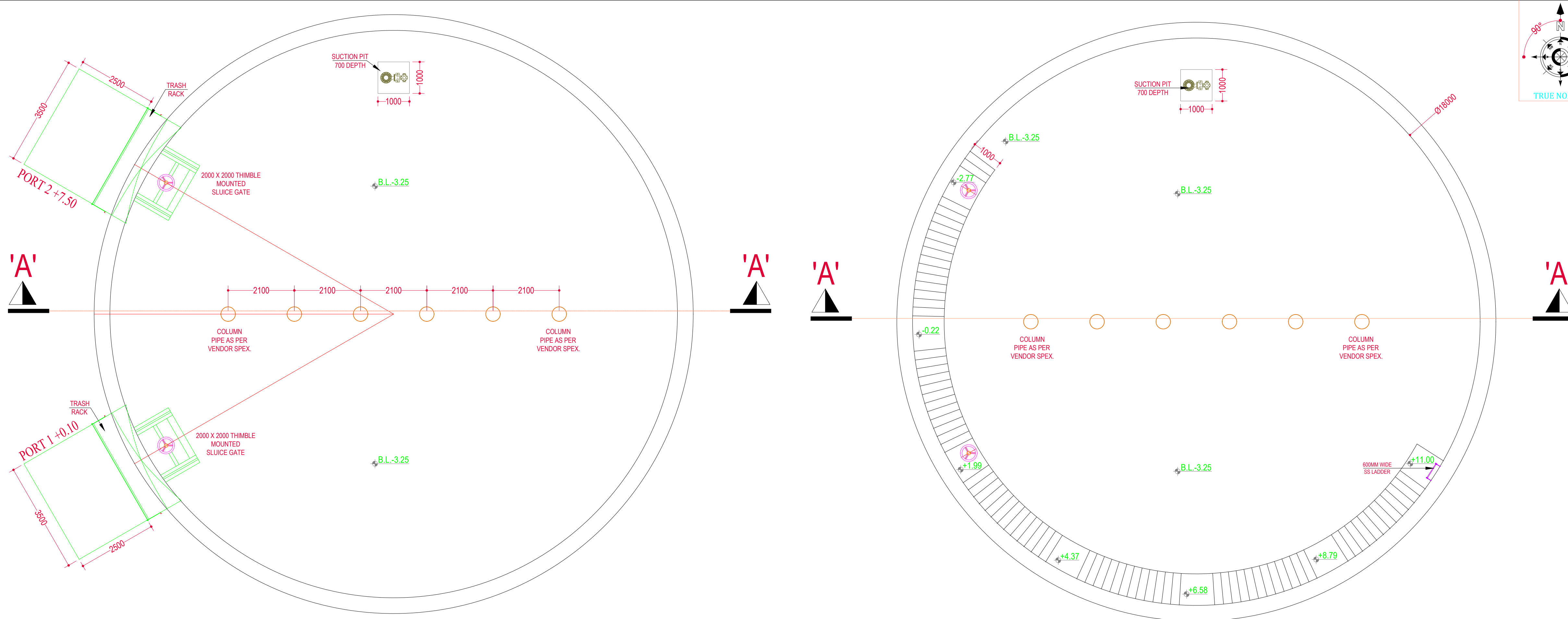
TITLE :-

INDEX DRAWING FOR WATER SUPPLY NETWORK OF BHARUCH (GIDC+GWSSB)

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CHECKED BY : SY	PROJ. CODE	DRG. NO.	REV
SCALE : NTS		01 OF 01	R1
DATE : 19.03.2026			

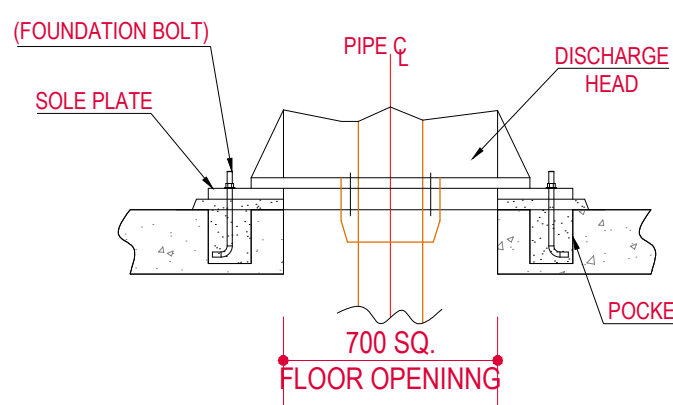
Volume – IV: Drawings

Part 1 (A) : RHS Bharuch (GWSSB)

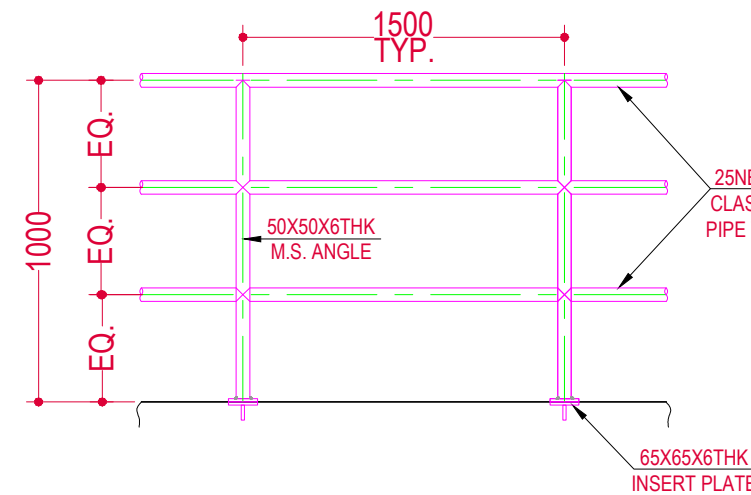


PLAN AT LVL -3.25
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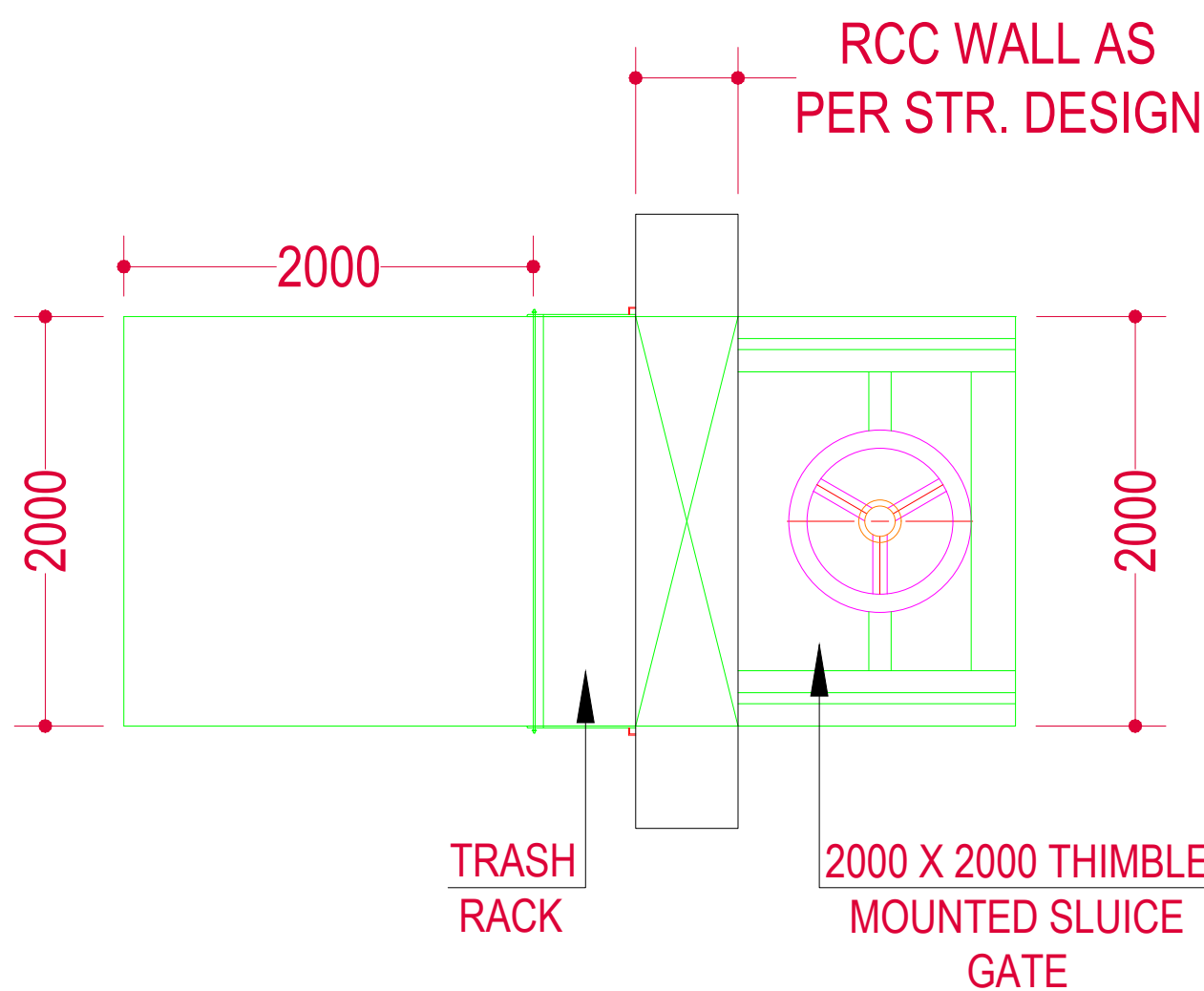
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SCALE = 1:1



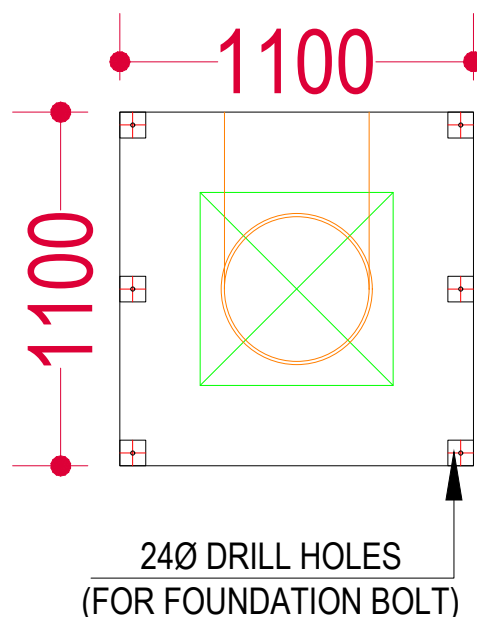
FOUNDATION SECTION
SCALE = 1:3
"HOLD"



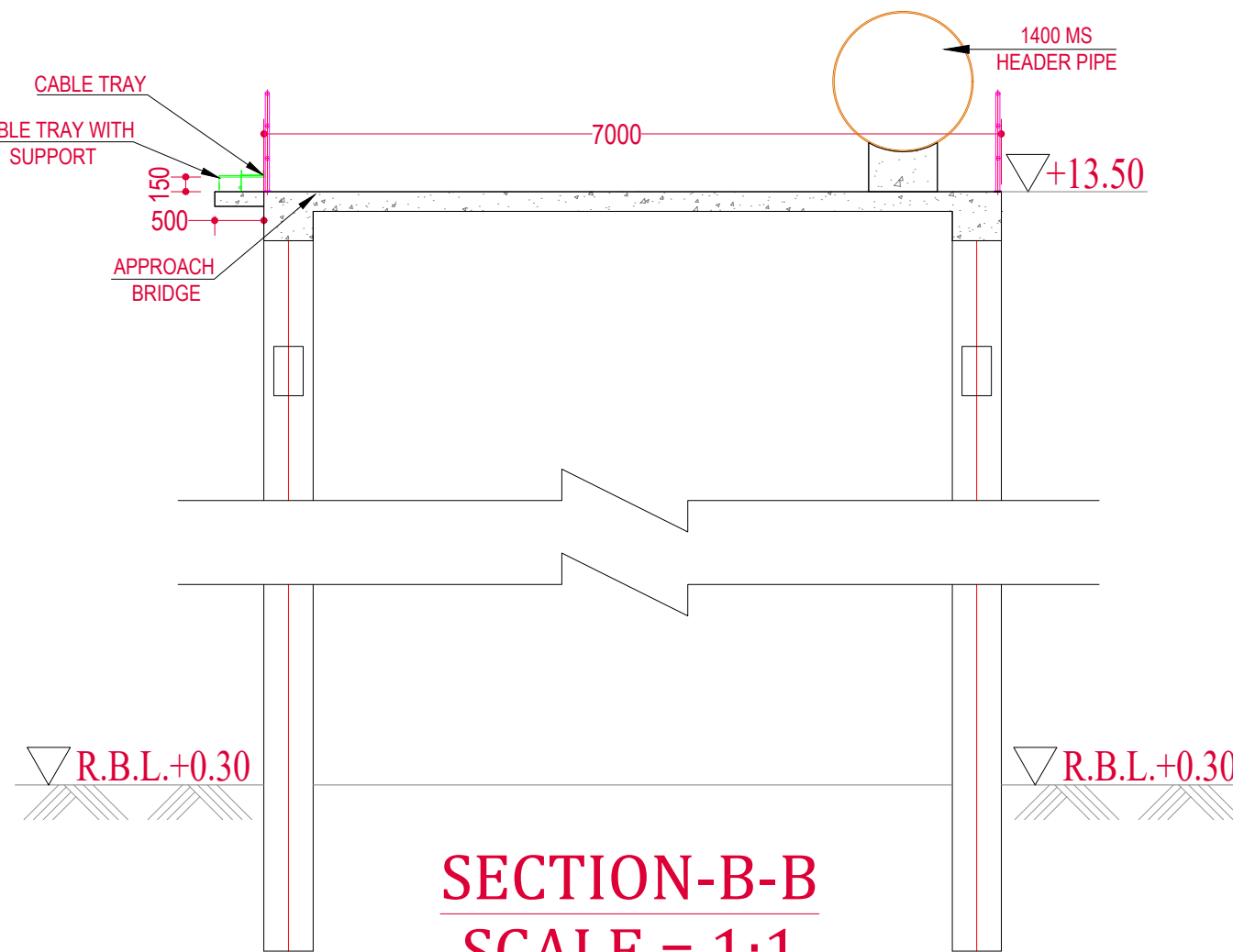
(TYP.) HANDRAIL DETAILS
(SCALE:-1:3)



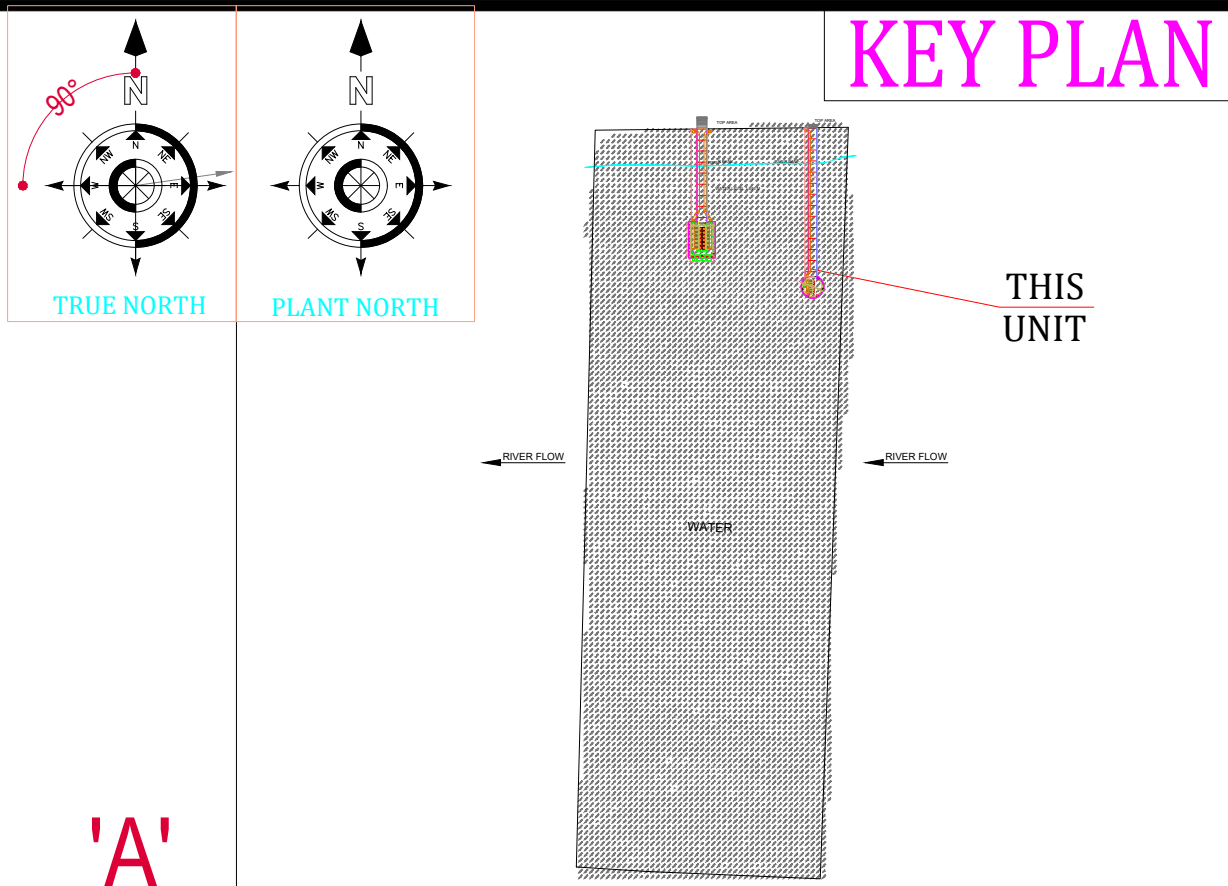
DETAILS OF TRASH RACK & GATE
SCALE = 1:2



FOUNDATION PLAN
SCALE = 1:3
"HOLD"



SECTION-B-B
SCALE = 1:1



- GENERAL NOTES**
- ALL LEVELS ARE IN M & DIMENSIONS ARE IN MM.
 - THICKNESS OF STRUCTURAL MEMBERS I.E.RCC SLAB, BEAM, COLUMN, FOOTING, PCC SHOWN IN DRAWING IS INDICATIVE ONLY. IT SHALL BE FINALIZED DURING STRUCTURAL DESIGN.
 - MECHANICAL EQUIPMENTS, PIPING ARRANGEMENT SHOWN ARE INDICATIVE, IT SHALL BE MATCHED WITH VENDOR DWG. & DETAILS.
 - FOUNDATION OF ALL EQUIPMENTS ARE ON "HOLD" & IT SHALL BE AS PER VENDOR DWG. & DETAILS.
 - SCOUR DEPTH FOR INTAKE WELL WILL BE AS PER SBC REPORT & STRUCTURAL DESIGN.
 - FOR ANY OTHER MISCELLANEOUS SPECIFICATIONS, REFER TENDER DOCUMENT.

ABBREVIATION	
A.G.L.	AVERAGE (NATURAL) GROUND LEVEL
R.B.L.	RIVER BED LEVEL
W.L.	WATER LEVEL
B.L.	BOTTOM BED LEVEL
M.D.D.L.	MINIMUM DRAW DOWN LEVEL
M.W.L.	MINIMUM WATER LEVEL
H.F.L.	HIGH FLOOR LEVEL

- SCHEDULE OF FINISHING**
- PUMP HOUSE PLASTER- INTERNAL WALL 15MM THK. IN SINGLE COAT C.M. 1:4
- PUMP HOUSE PLASTER- CEILING 15MM THK. IN SINGLE COAT C.M. 1:4
- PUMP HOUSE PLASTER- INSIDE WELL 20MM THK. W.P. PLASTER IN C.M. 1:2
- PUMP HOUSE PLASTER- OUTSIDE WELL 20MM TH. SAND FACED PLASTER IN 2 COATS, BASE COAT OF 12MM TH. IN C.M. 1:4 & FINISHING COAT OF 8MM TH. & C.M. 1:3
- PUMP HOUSE PAINT:- PUMP HOUSE INTERNAL WALLS - DISTEMPER PAINT
- PUMP HOUSE PAINT:- PUMP HOUSE OUTER WALLS - SNOWCEM PAINT
- FLOOR:- PUMP HOUSE PLINTH LEVELS - KOTA STONE
- ALL WALLS SHALL BE 230 THK. MASONRY IN C.M. 1:4

SR.NO.	TYPE	SIZE	M.O.C
1.	RS	4500 x 5000	MS ROLLING SHUTTER
2.	W	1200 x 1200	ALUMINUM GLAZED VENTILATORS
3.	V	1200 x 600	ALUMINUM GLAZED VENTILATORS
4.	EX	450 x 450	EXHAUST FAN

VT PUMP (RAW WATER PUMPS)						
CAPACITY (CUM/HR)	HEAD (MTR)	WORKING	STANDBY	MOTORIZED BFV (MM)	DPCV (MM)	DEL PIPE (MM)
1650.00	AS PER DESIGN	4	2	500	500	500

DESIGN PARAMETERS	
* H.F.L.	RL. +11.50 M
M.D.D.L.	RL. +2.75 M
RIVER BED LEVEL	RL. -1.20 M
FLOOR LEVEL	RL. +13.50 M

- IMPORTANT NOTES**
- *INDICATES WATER LEVEL / HFL R.L OF 11.50 M @ DISCHARGE Q=81717 CUMEC .
- Note : This drawing is issued solely for indicative purposes and for facilitating the Contractor's understanding of the scope and nature of the work. The dimensions, levels, layouts, and all other structural or engineering details shown herein are tentative and shall not be construed as final for execution. The Contractor shall be responsible for preparing, checking, and submitting the final construction drawings, including but not limited to dimensions, levels, reinforcement details, structural details, fabrication details, and all other relevant engineering information, in accordance with the item specifications, data sheets, technical approved design criteria, applicable codes and standards, site conditions, and geotechnical investigation reports, for review and approval by the Engineer-in-Charge prior to execution. Any modifications, revisions, or variations required during detailed engineering, design development, or execution shall be incorporated by the Contractor at no additional cost to the Employer and shall be carried out strictly as directed and approved by the Engineer-in-Charge.

PROJECT:-
Water Supply Scheme Based on Bhadbhut Barrage for Industries (GIDC) and Rural Areas of Bharuch, Surat & Vadodara Districts
PART 1 (A) : RHS BHARUCH (GWSSB)

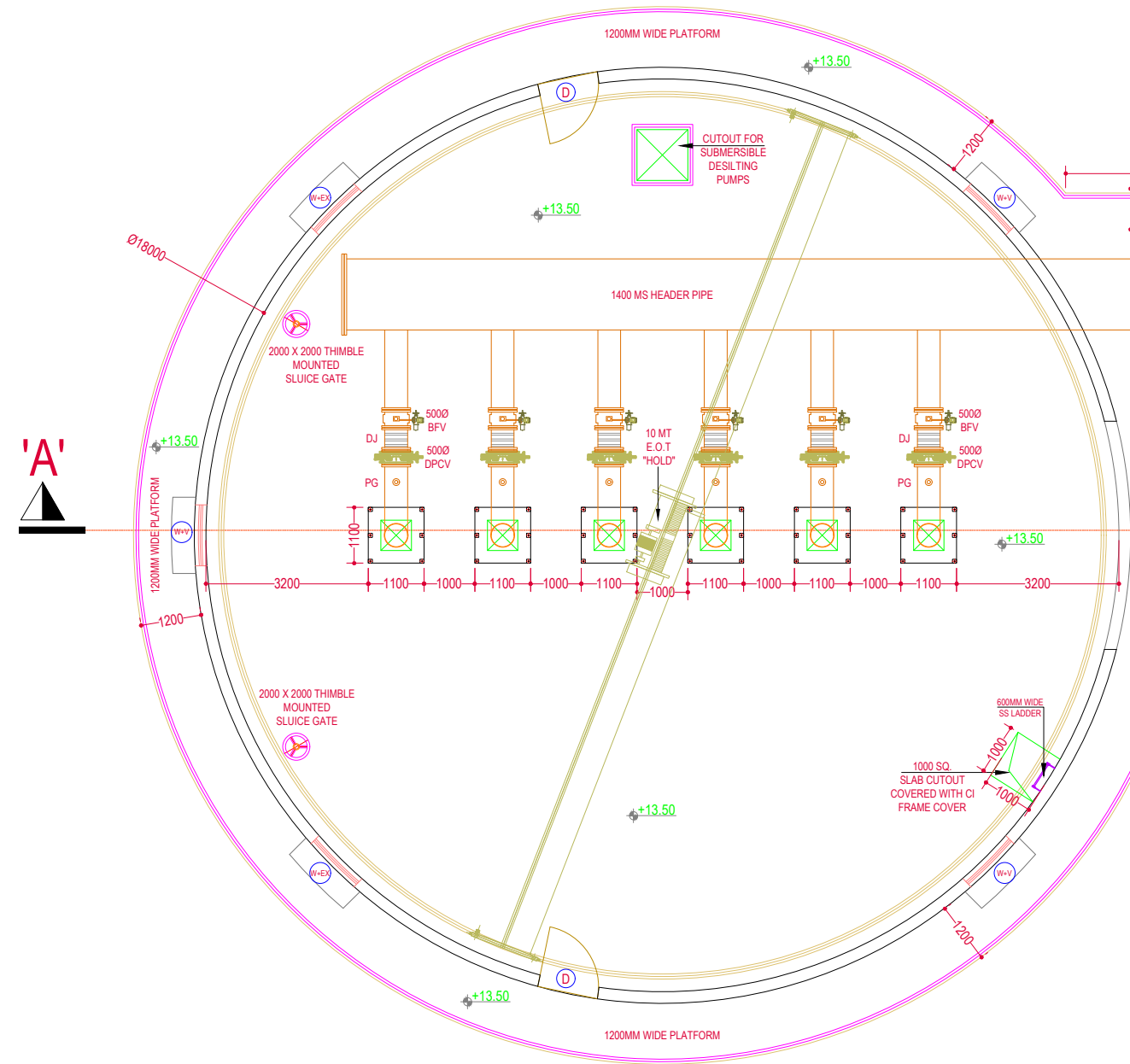
CLIENT:-
GWSSB

TECHNICAL APPROVAL :-
GWSSB

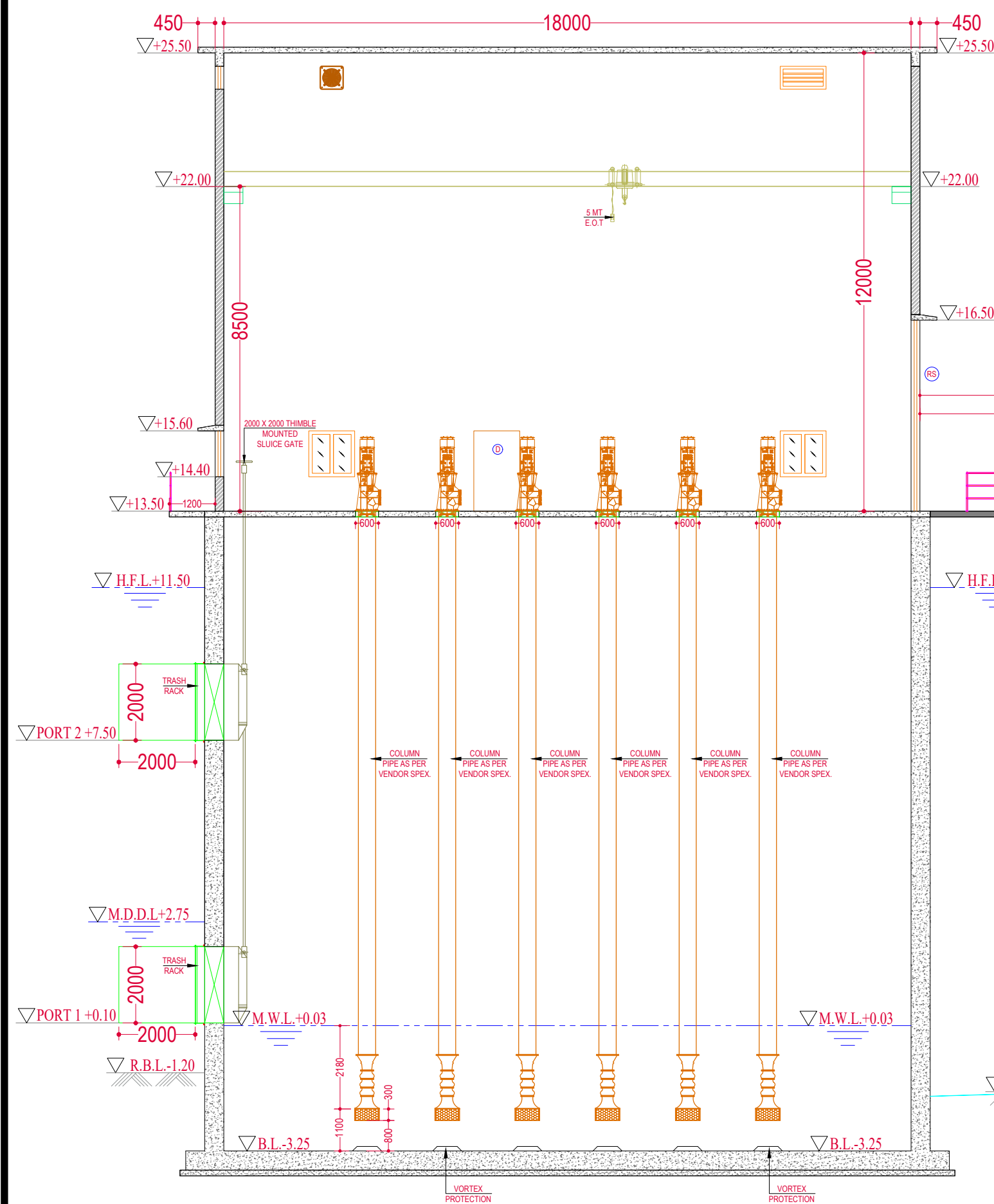
PMC:-IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

TITLE :-
GAD OF INTAKE WELL_182 MLD & APPROACH BRIDGE_145 M - RHS BHARUCH (GWSSB)

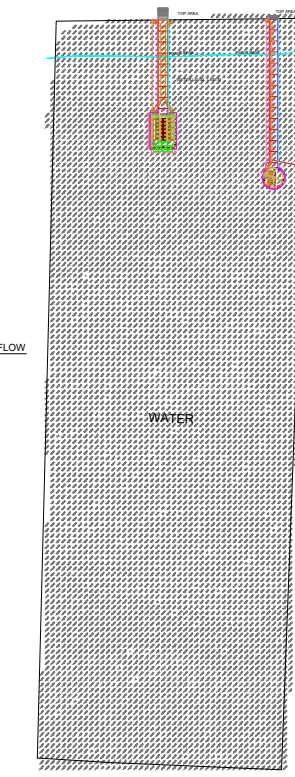
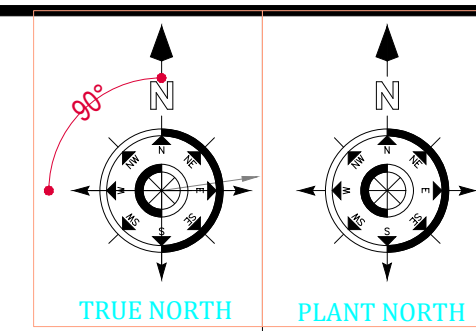
DRAWN BY : G.B	DESIGN BY : - G.B		
CHECKED BY : SY	PROJ. CODE	DRG. NO.	REV
SCALE : NTS		01 OF 03	R0
DATE : 24.06.2026			



PLAN OF INTAKE WELL WITH
APPROACH BRIDGE AT LVL +13.50
SCALE = 1:1



SECTION-A-A
SCALE = 1:1



KEY PLAN

THIS
UNIT

GENERAL NOTES

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ABBREVIATION

A.G.L.	AVERAGE (NATURAL) GROUND LEVEL
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W.L.	WATER LEVEL
B.L.	BOTTOM/BED LEVEL
M.D.D.L.	MINIMUM DRAW DOWN LEVEL
M.W.L.	MINIMUM WATER LEVEL
H.F.L.	HIGH FLOOR LEVEL

SCHEDULE OF FINISHING

PUMP HOUSE PLASTER- INTERNAL WALL 15MM THK. IN SINGLE COAT C.M. 1:4

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FLOOR- PUMP HOUSE PLINTH LEVELS - KOTA STONE

ALL WALLS SHALL BE 230 THK. MASONRY IN C.M. 1:4

SCHEDULE OF OPENING

SR.NO.	TYPE	SIZE	M.O.C
1.	RS	4500 x 5000	MS ROLLING SHUTTER
2.	W	1200 x 1200	ALUMINUM GLAZED VENTILATORS
3.	V	1200 x 600	ALUMINUM GLAZED VENTILATORS
4.	EX	450 x 450	EXHAUST FAN

VT PUMP (RAW WATER PUMPS)

CAPACITY (CUM/HR)	HEAD (MTR)	WORKING	STANDBY	MOTORIZED BEV (MM)	DPCV (MM)	DEL PIPE (MM)	HEADER PIPE (MM)
1650.00	AS PER DESIGN	4	2	500	500	500	1400

DESIGN PARAMETERS

* H.F.L.	RL. +11.50 M
M.D.D.L.	RL. +2.75 M
RIVER BED LEVEL	RL. -1.20 M
FLOOR LEVEL	RL. +13.50 M

IMPORTANT NOTES

*INDICATES WATER LEVEL / HFL R.L OF 11.50 M @ DISCHARGE Q=81717 CUMEC .

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PROJECT:-

Water Supply Scheme Based on Bhadbhut Barrage for Industries (GIDC) and Rural Areas of Bharuch, Surat & Vadodara Districts

PART 1 (A) : RHS BHARUCH (GWSSB)

CLIENT:-

GWSSB

TECHNICAL APPROVAL :-

GWSSB

PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

TITLE :-

GAD OF INTAKE WELL_182 MLD & APPROACH BRIDGE_145 M - RHS BHARUCH (GWSSB)

DRAWN BY : G.B

DESIGN BY : - G.B

CHECKED BY : SY

PROJ. CODE

DRG. NO.

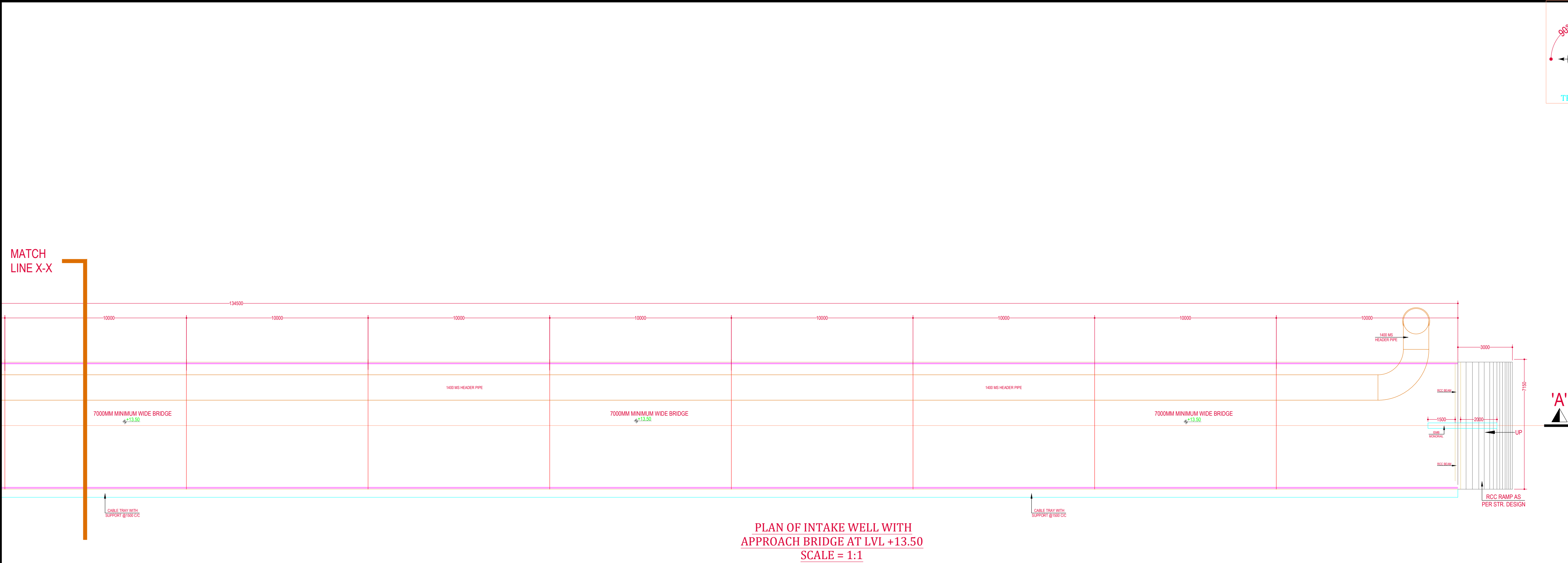
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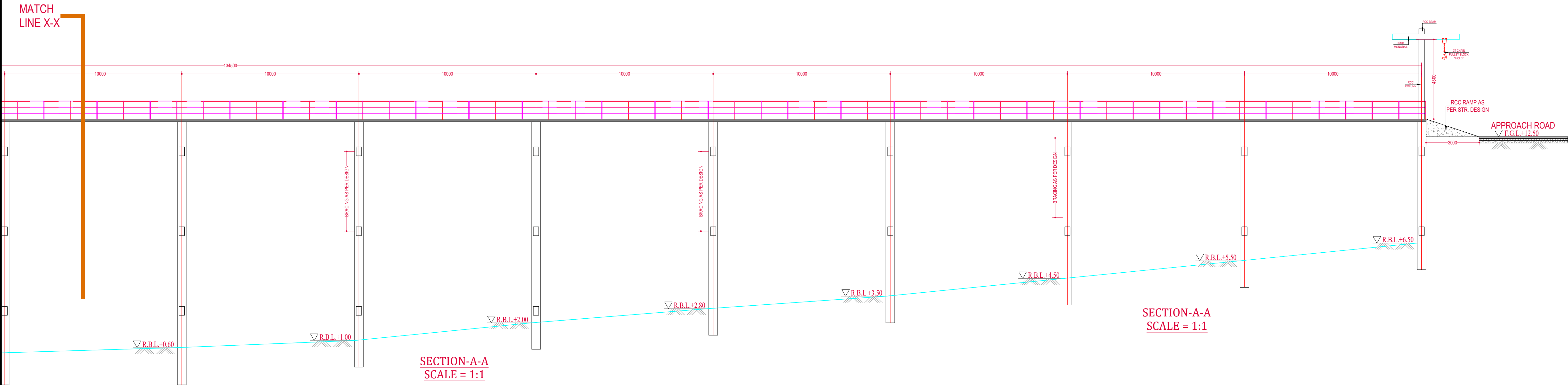
02 OF 03

R0

DATE : 24.06.2026

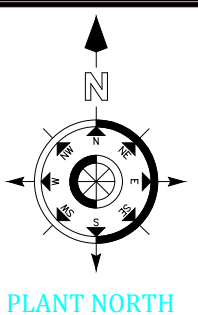
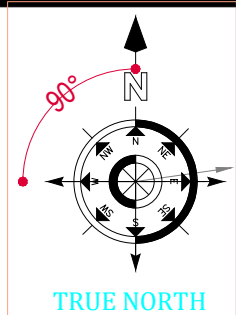


PLAN OF INTAKE WELL WITH
APPROACH BRIDGE AT LVL +13.50
SCALE = 1:1

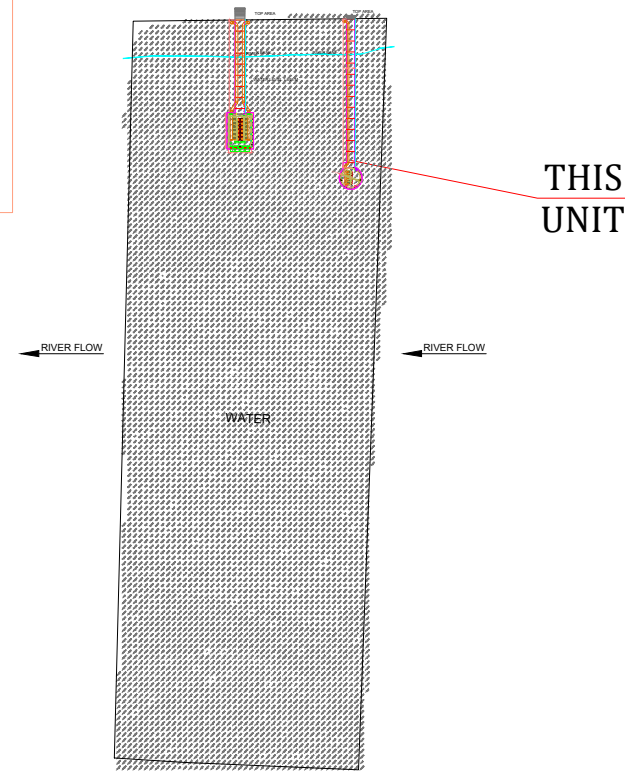


SECTION-A-A
SCALE = 1:1

SECTION-A-A
SCALE = 1:1



KEY PLAN



GENERAL NOTES

- ALL LEVELS ARE IN M & DIMENSIONS ARE IN MM.
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SCHEDULE OF OPENING

SR.NO.	TYPE	SIZE	M.O.C
1.	RS	4500 x 5000	MS ROLLING SHUTTER
2.	W	1200 x 1200	ALUMINUM GLAZED VENTILATORS
3.	V	1200 x 600	ALUMINUM GLAZED VENTILATORS
4.	EX	450 x 450	EXHAUST FAN

VT PUMP (RAW WATER PUMPS)

CAPACITY (CUM/HR)	HEAD (MTR)	WORKING	STANDBY	MOTORIZED BFV (MM)	DPCV (MM)	DEL PIPE (MM)	HEADER PIPE (MM)
1650.00	AS PER DESIGN	4	2	500	500	500	1400

DESIGN PARAMETERS

* H.F.L.	RL. +11.50 M
M.D.D.L.	RL. +2.75 M
RIVER BED LEVEL	RL. -1.20 M
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IMPORTANT NOTES

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PROJECT:-

Water Supply Scheme Based on Bhadbhut Barrage for Industries (GIDC) and Rural Areas of Bharuch, Surat & Vadodara Districts

PART 1 (A) : RHS BHARUCH (GWSSB)

CLIENT:-

GWSSB

TECHNICAL APPROVAL :-

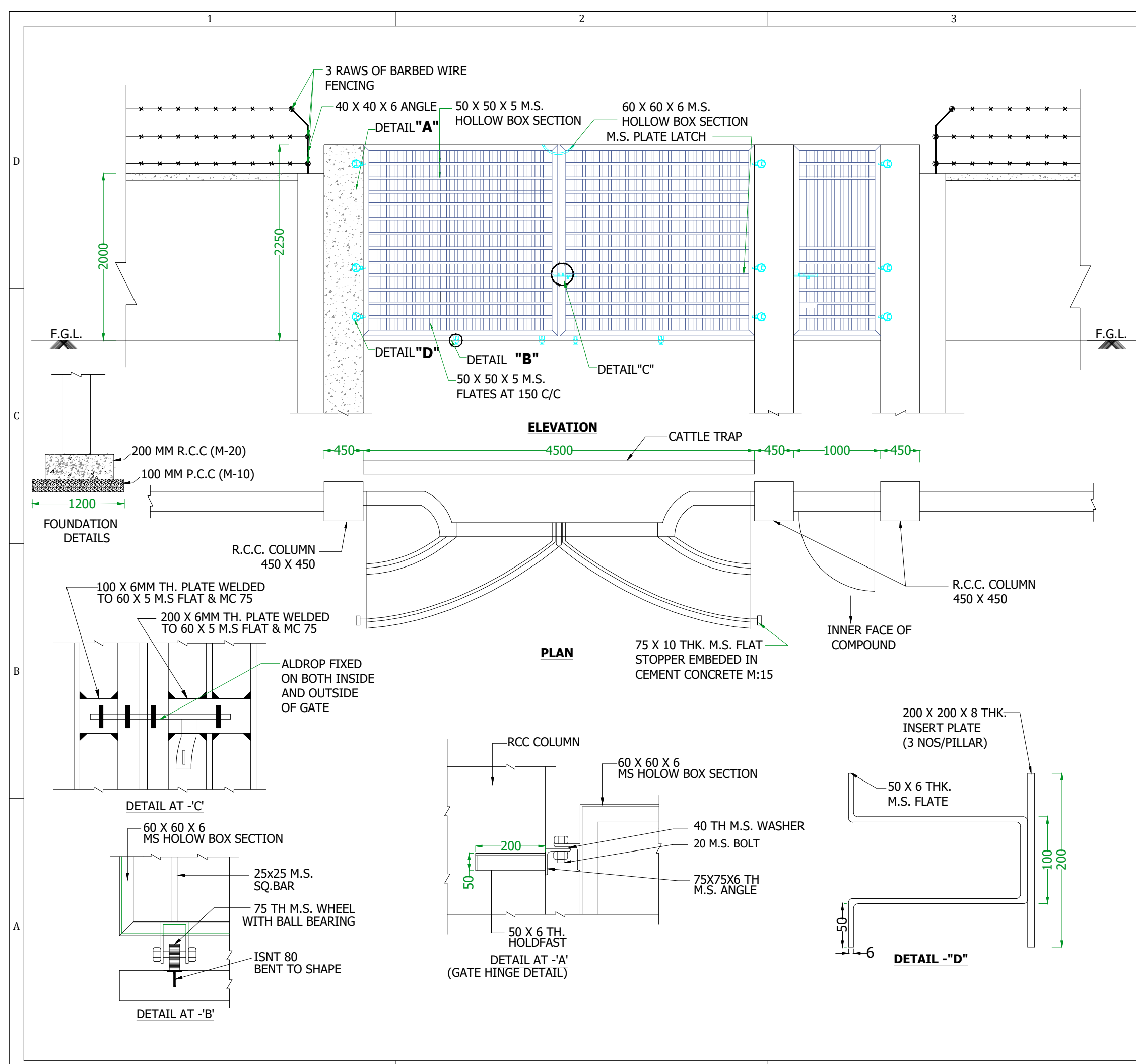
GWSSB

PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

TITLE :-

GAD OF INTAKE WELL ,182 MLD & APPROACH BRIDGE_145 M - RHS BHARUCH (GWSSB)

DRAWN BY : G.B	DESIGN BY : - G.B		
CHECKED BY : SY	PROJ. CODE	DRG. NO.	REV
SCALE : NTS		03 OF 03	R0
DATE : 24.06.2026			



- NOTES :-
1. ALL DIMENSIONS ARE IN MM
 2. GATE WIDTH SHALL BE ADJUSTED AS PER EQUIPMENT SIZE.
 3. APPLYING PRIME COAT OVER NEW STEEL AND OTHER METAL SURFACE.
 4. PAINTING TWO COATS (EXCLUDING PRIMING COAT) ON NEW STEEL AND OTHER METAL SURFACES WITH ENAMEL PAINT BRUSHING.
 5. DIMENSIONS AND DETAILS SHOWN IN DRAWING ARE MINIMUM AND INDICATIVE ONLY.
 6. FOUNDATION DETAILS SHOWN IN DRAWING ARE MINIMUM & INDICATIVE ONLY BIDDER SHALL HAVE TO DESIGN OF PROVIDE TO APPROPRIATELY TO MEET THE SYSTEM REQUIREMENT.
 7. DIMENSIONS & DETAILS SHOWN IN DRAWING ARE MINIMUM & INDICATIVE ONLY BIDDER SHALL HAVE TO DESIGN OF PROVIDE TO APPROPRIATELY TO MEET THE SYSTEM REQUIREMENT.

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PROJECT:-
WATER SUPPLY SCHEME BASED ON
BHADBHUT BARRAGE FOR INDUSTRIES
(GIDC) AND RURAL AREAS OF BHARUCH,
SURAT & VADODARA DISTRICTS

PART 1 (A) : RHS - BHARUCH (GWSSB)

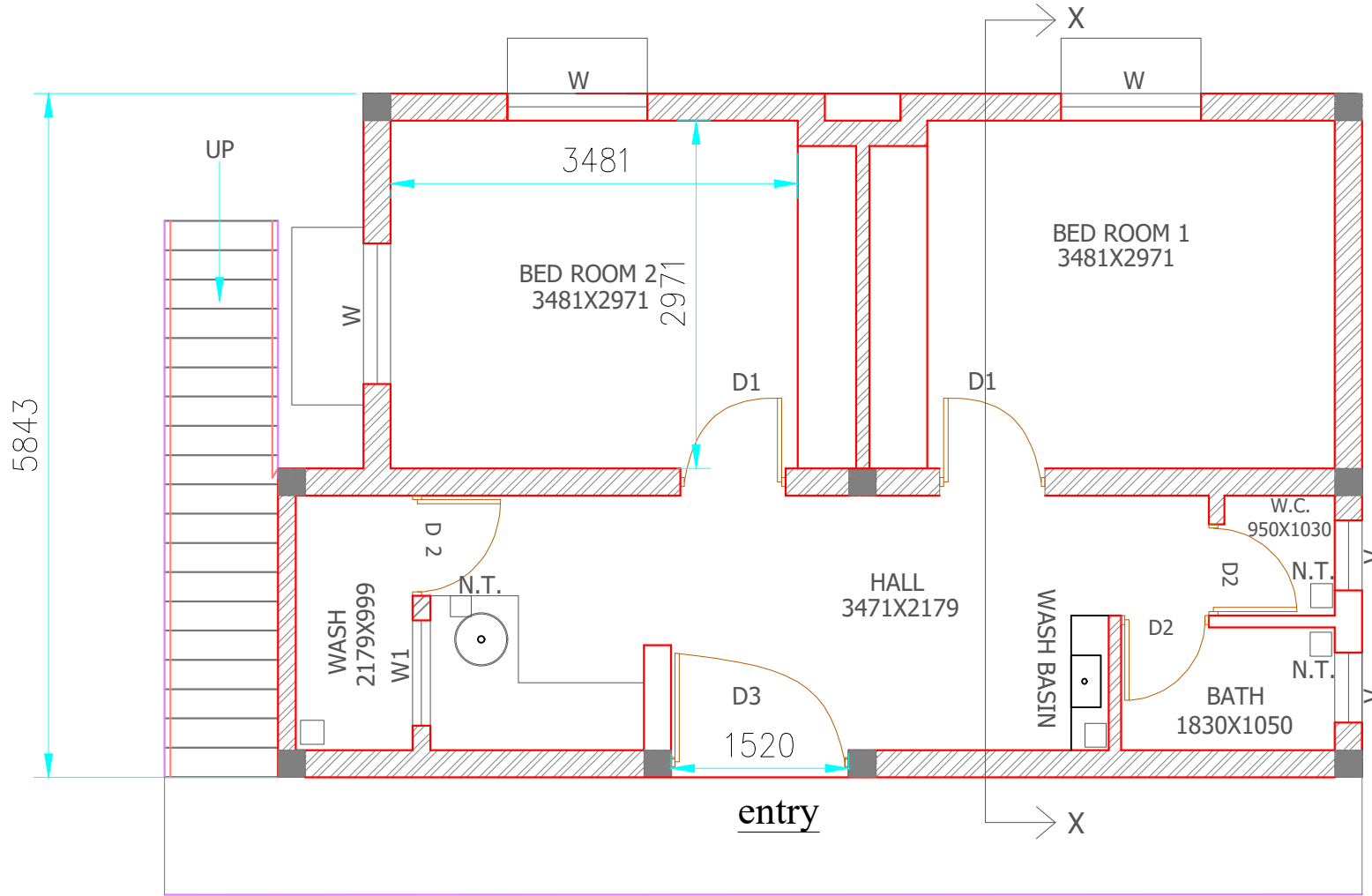
CLIENT:- GWSSB

TECHNICAL APPROVAL :-
GWSSB

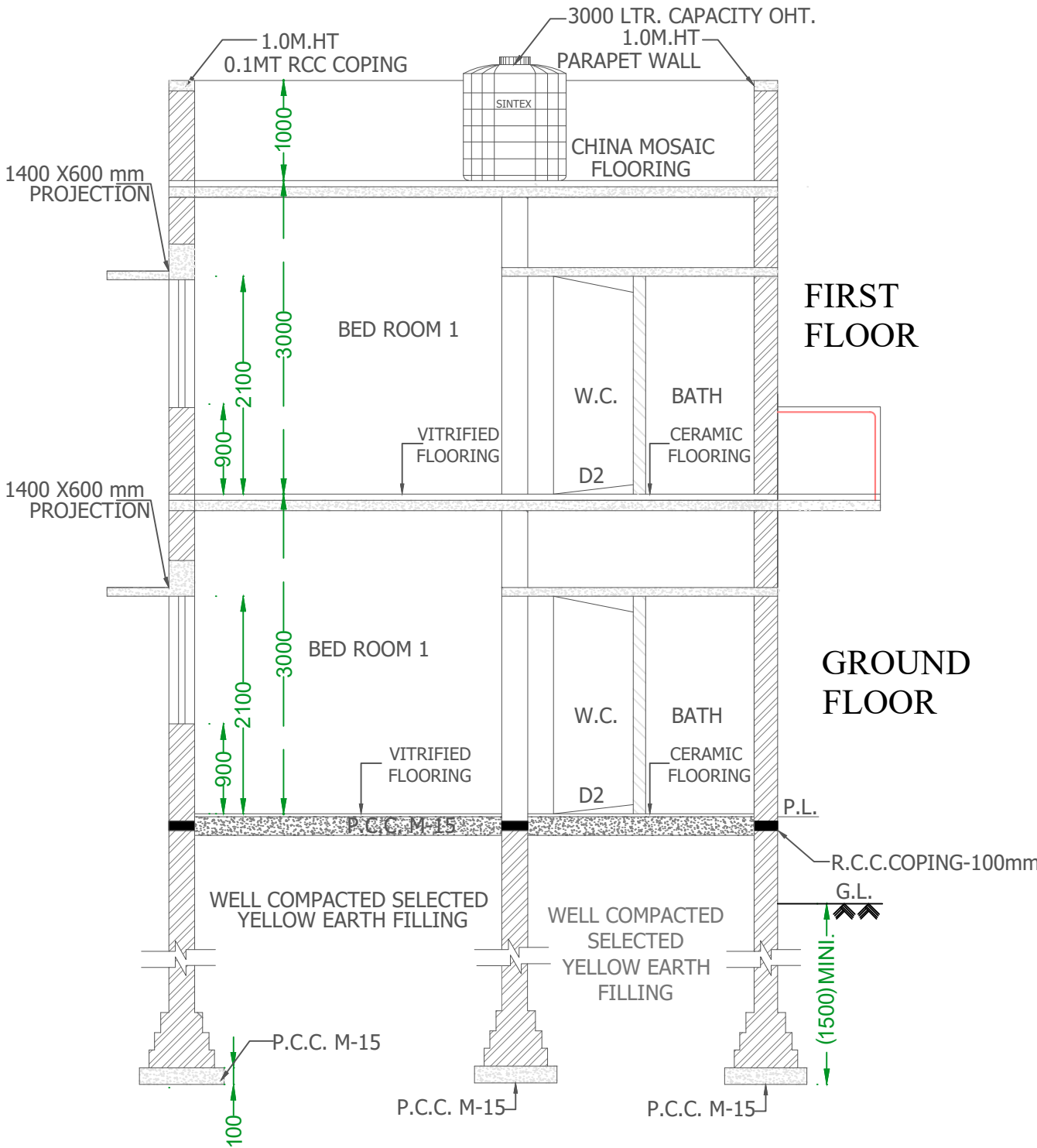
PMC:-IRCLASS SYSTEMS AND SOLUTIONS
PVT. LTD.

TITLE :-
TYPICAL DRAWING OF MAIN GATE &
WICKET GATE BHARUCH

DRAWN BY : GB		DESIGN BY : GB		
CHECKED BY : KP	PROJ. CODE	DRG. NO.	REV	
SCALE : NTS	WSS_09	01 OF 01	R4	
DATE : 07.05.2026				



GROUND FLOOR PLAN

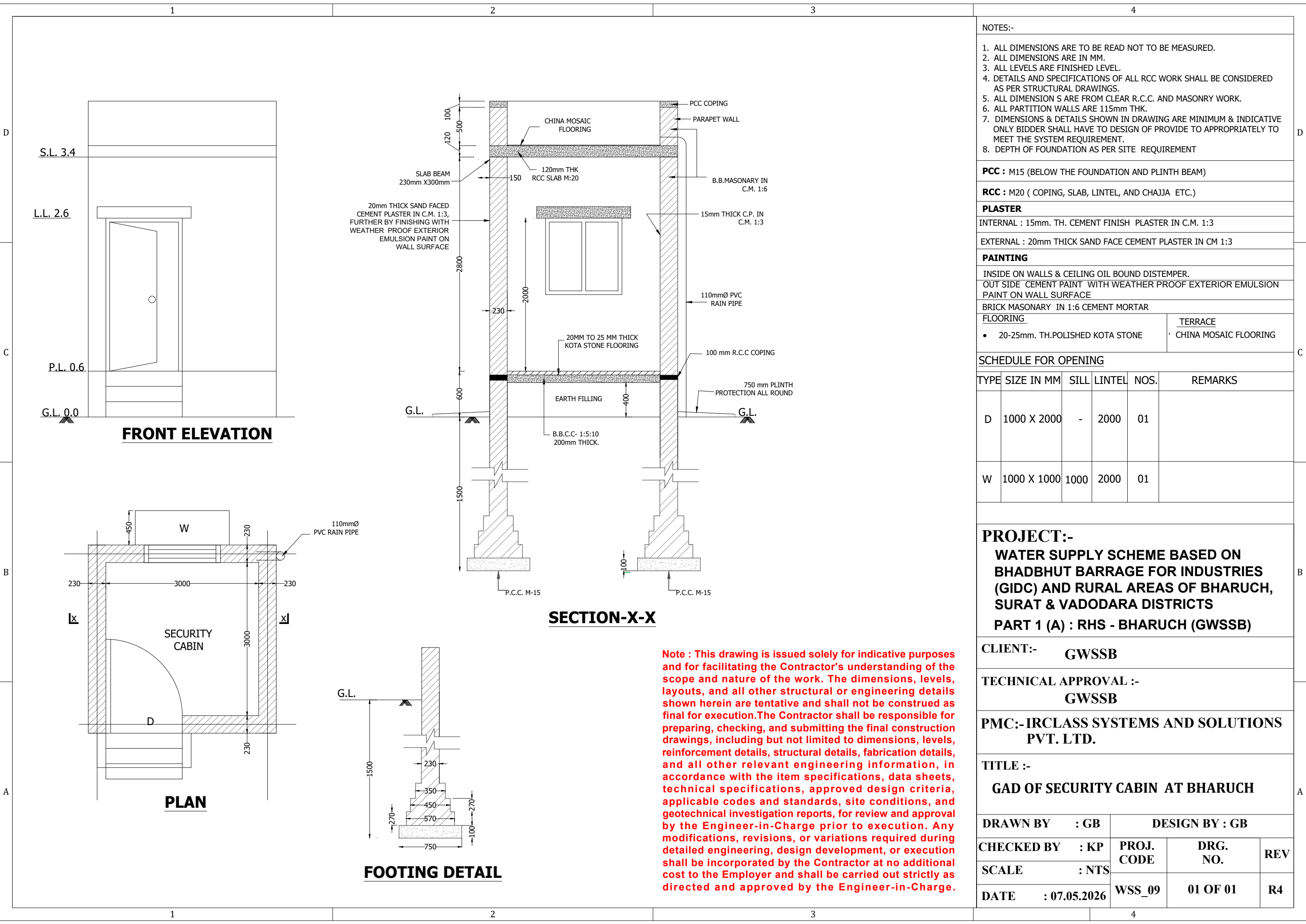


SECTION X-X

NOTE : THIS DRAWING IS ISSUED SOLELY FOR INDICATIVE PURPOSES AND FOR FACILITATING THE CONTRACTOR'S UNDERSTANDING OF THE SCOPE AND NATURE OF THE WORK. THE DIMENSIONS, LEVELS, LAYOUTS, AND ALL OTHER STRUCTURAL OR ENGINEERING DETAILS SHOWN HEREIN ARE TENTATIVE AND SHALL NOT BE CONSTRUED AS FINAL FOR EXECUTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING, CHECKING, AND SUBMITTING THE FINAL CONSTRUCTION DRAWINGS, INCLUDING BUT NOT LIMITED TO DIMENSIONS, LEVELS, REINFORCEMENT DETAILS, STRUCTURAL DETAILS, FABRICATION DETAILS, AND ALL OTHER RELEVANT ENGINEERING INFORMATION, IN ACCORDANCE WITH THE ITEM SPECIFICATIONS, DATA SHEETS, TECHNICAL SPECIFICATIONS, APPROVED DESIGN CRITERIA, APPLICABLE CODES AND STANDARDS, SITE CONDITIONS, AND GEOTECHNICAL INVESTIGATION REPORTS, FOR REVIEW AND APPROVAL BY THE ENGINEER-IN-CHARGE PRIOR TO EXECUTION. ANY MODIFICATIONS, REVISIONS, OR VARIATIONS REQUIRED DURING DETAILED ENGINEERING, DESIGN DEVELOPMENT, OR EXECUTION SHALL BE INCORPORATED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE EMPLOYER AND SHALL BE CARRIED OUT STRICTLY AS DIRECTED AND APPROVED BY THE ENGINEER-IN-CHARGE.

SCHEDULE FOR OPENING					
DOORS			FOR ONE UNIT		
TYPE	SIZE IN MM	SILL	LINTEL	REMARKS	
D1	900 X 2100	-	2100	FRP DOOR	
D2	750 X 2100	-	2100		
D3	1520 X 2100		2100		
WINDOWS			FOR ONE UNIT		
W	1200 X 1200	900	2100	EXTRUDED ALUMINUM WINDOW PARTIALLY FIXED AND PARTIALLY SLIDING	
W1	900 X 1000	900	2100		
V	600 X 600	1500	2100	EXTRUDED ALUMINUM WITH COLOR ANODIZED ALUMINUM FRAME	

PROJECT:- WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS PART 1 (A) : RHS - BHARUCH (GWSSB)			
CLIENT:- GWSSB			
TECHNICAL APPROVAL :- GWSSB			
PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.			
TITLE :- LAYOUT OF STAFF QUARTER AT BHARUCH			
DRAWN BY : G.R	DESIGN BY : SY		
CHECKED BY : G.B	PROJ. CODE	DRG. NO.	REV
SCALE : NTS	WSS_09	01 OF 01	R4
DATE : 24.06.2026			



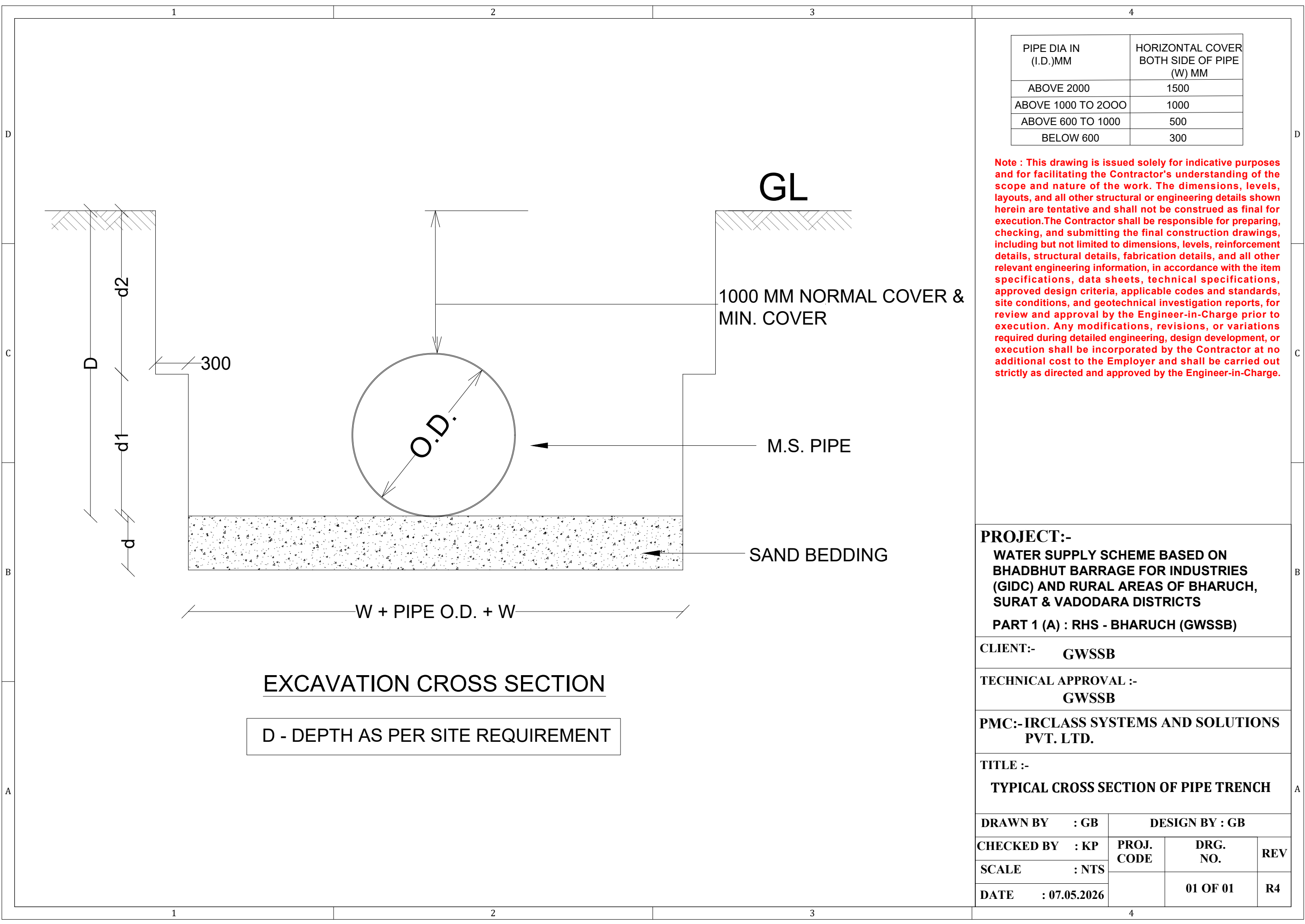
- NOTES:-
1. ALL DIMENSIONS ARE TO BE READ NOT TO BE MEASURED.
 2. ALL DIMENSIONS ARE IN MM.
 3. ALL LEVELS ARE FINISHED LEVEL.
 4. DETAILS AND SPECIFICATIONS OF ALL RCC WORK SHALL BE CONSIDERED AS PER STRUCTURAL DRAWINGS.
 5. ALL DIMENSION S ARE FROM CLEAR R.C.C. AND MASONRY WORK.
 6. ALL PARTITION WALLS ARE 115mm THK.
 7. DIMENSIONS & DETAILS SHOWN IN DRAWING ARE MINIMUM & INDICATIVE ONLY BIDDER SHALL HAVE TO DESIGN OF PROVIDE TO APPROPRIATELY TO MEET THE SYSTEM REQUIREMENT.
 8. DEPTH OF FOUNDATION AS PER SITE REQUIREMENT

PCC : M15 (BELOW THE FOUNDATION AND PLINTH BEAM)	
RCC : M20 (COPING, SLAB, LINTEL, AND CHAJJA ETC.)	
PLASTER	
INTERNAL : 15mm. TH. CEMENT FINISH PLASTER IN C.M. 1:3	
EXTERNAL : 20mm THICK SAND FACE CEMENT PLASTER IN CM 1:3	
PAINTING	
INSIDE ON WALLS & CEILING OIL BOUND DISTEMPER.	
OUT SIDE CEMENT PAINT WITH WEATHER PROOF EXTERIOR EMULSION PAINT ON WALL SURFACE	
BRICK MASONARY IN 1:6 CEMENT MORTAR	
FLOORING	TERRACE
• 20-25mm. TH.POLISHED KOTA STONE	• CHINA MOSAIC FLOORING

SCHEDULE FOR OPENING					
TYPE	SIZE IN MM	SILL	LINTEL	NOS.	REMARKS
D	1000 X 2000	-	2000	01	
W	1000 X 1000	1000	2000	01	

PROJECT:-
WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS
PART 1 (A) : RHS - BHARUCH (GWSSB)

CLIENT:- GWSSB			
TECHNICAL APPROVAL :- GWSSB			
PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.			
TITLE :- GAD OF SECURITY CABIN AT BHARUCH			
DRAWN BY : GB		DESIGN BY : GB	
CHECKED BY : KP	PROJ. CODE	DRG. NO.	REV
SCALE : NTS	WSS_09	01 OF 01	R4
DATE : 07.05.2026			



PIPE DIA IN (I.D.)MM	HORIZONTAL COVER BOTH SIDE OF PIPE (W) MM
ABOVE 2000	1500
ABOVE 1000 TO 2000	1000
ABOVE 600 TO 1000	500
BELOW 600	300

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PROJECT:-
WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS
PART 1 (A) : RHS - BHARUCH (GWSSB)

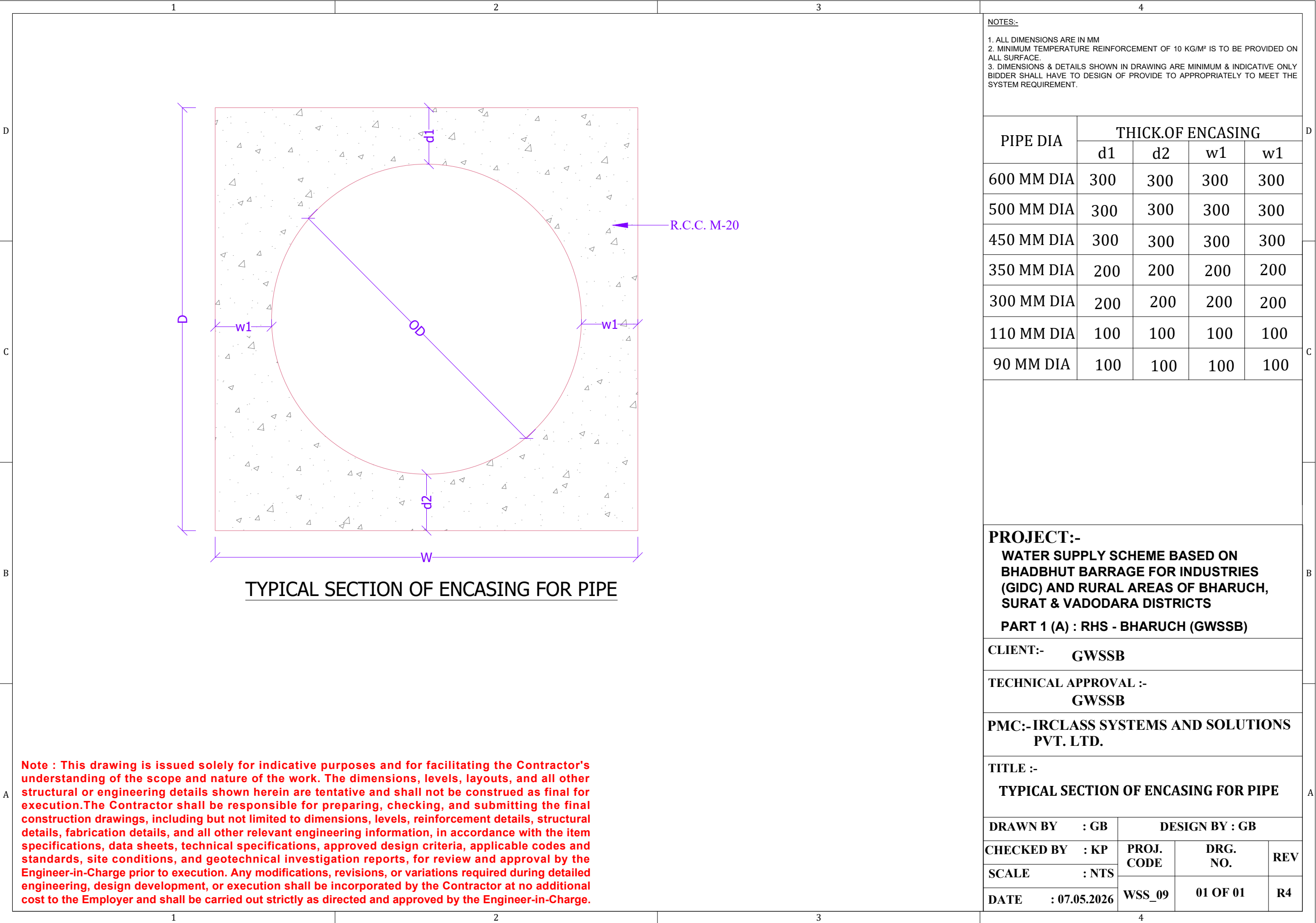
CLIENT:- GWSSB

TECHNICAL APPROVAL :-
GWSSB

PMC:-IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

TITLE :-
TYPICAL CROSS SECTION OF PIPE TRENCH

DRAWN BY : GB	DESIGN BY : GB		
CHECKED BY : KP	PROJ. CODE	DRG. NO.	REV
SCALE : NTS		01 OF 01	R4
DATE : 07.05.2026			



NOTES:-
1. ALL DIMENSIONS ARE IN MM
2. MINIMUM TEMPERATURE REINFORCEMENT OF 10 KG/M² IS TO BE PROVIDED ON ALL SURFACE.
3. DIMENSIONS & DETAILS SHOWN IN DRAWING ARE MINIMUM & INDICATIVE ONLY BIDDER SHALL HAVE TO DESIGN OF PROVIDE TO APPROPRIATELY TO MEET THE SYSTEM REQUIREMENT.

PIPE DIA	THICK.OF ENCASING			
	d1	d2	w1	w1
600 MM DIA	300	300	300	300
500 MM DIA	300	300	300	300
450 MM DIA	300	300	300	300
350 MM DIA	200	200	200	200
300 MM DIA	200	200	200	200
110 MM DIA	100	100	100	100
90 MM DIA	100	100	100	100

PROJECT:-
WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS
PART 1 (A) : RHS - BHARUCH (GWSSB)

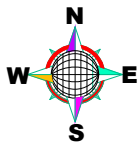
CLIENT:- GWSSB

TECHNICAL APPROVAL :-
GWSSB

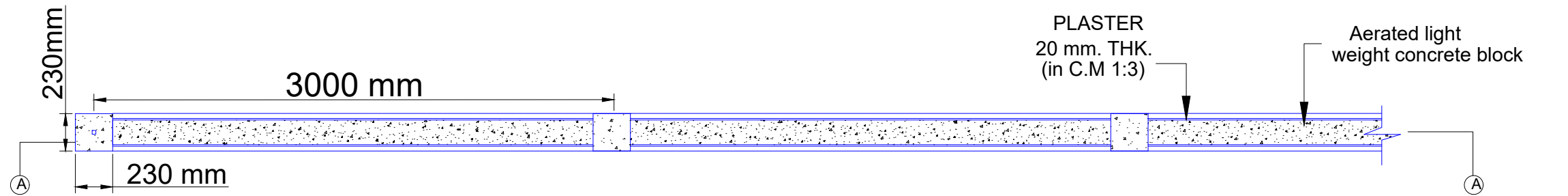
PMC:-IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

TITLE :-
TYPICAL SECTION OF ENCASING FOR PIPE

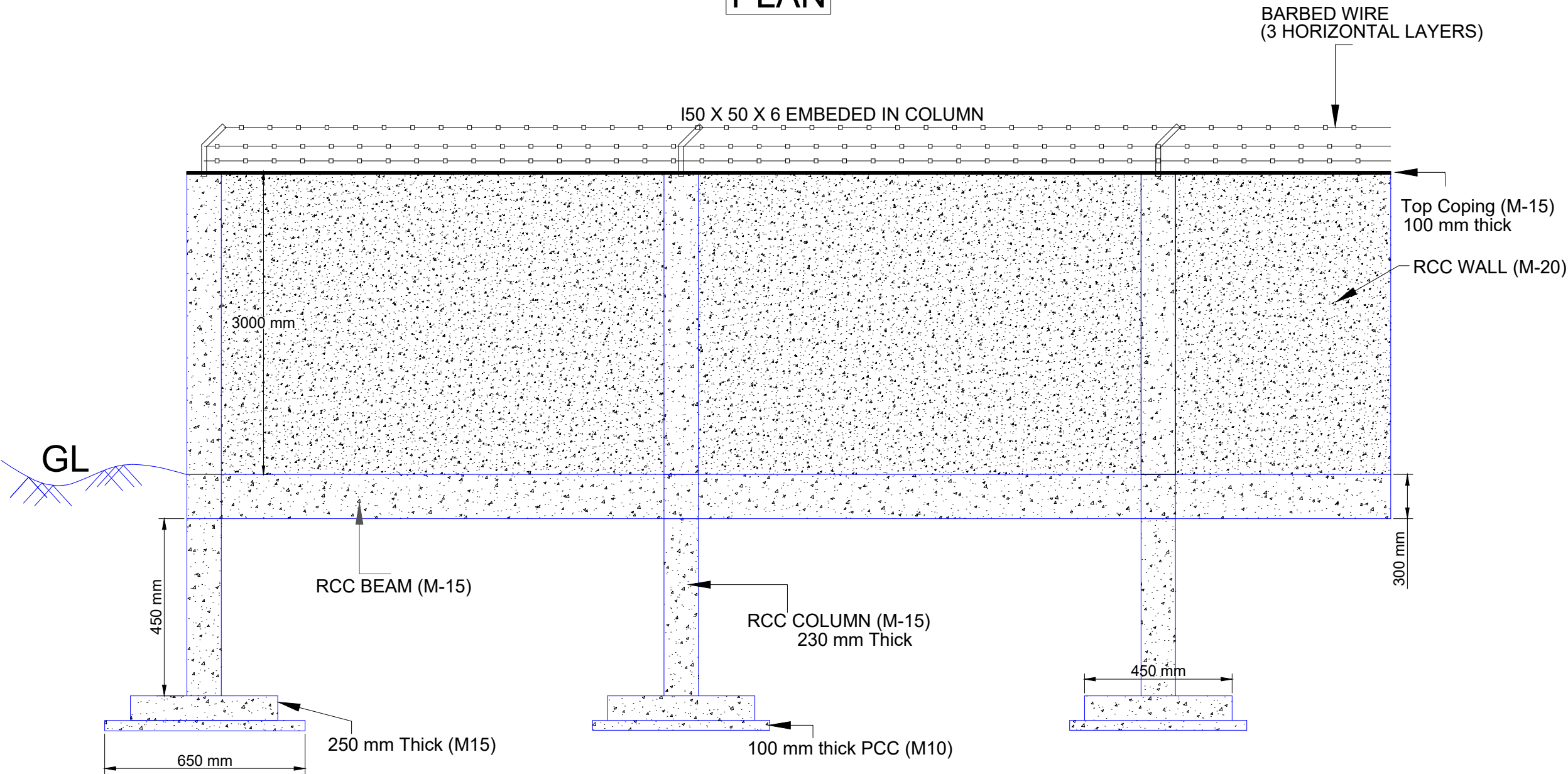
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CHECKED BY : KP	PROJ. CODE	DRG. NO.	REV
SCALE : NTS			
DATE : 07.05.2026	WSS_09	01 OF 01	R4



TYPICAL DRAWING OF COMPOUND WALL



PLAN



SECTION-A

NOTES:

1. ALL DIMENSIONS ARE IN MM, UNLESS OTHERWISE STATED.
2. DO NOT SCALE FROM THE DRAWINGS.
3. PLAIN CEMENT CONCRETE USED FOR FOUNDATION SHALL BE MINIMUM OF M10 GRADE.
4. RCC USED FOR PLINTH BEAM FOUNDATION AND COLUMN SHALL BE OF M15 GRADE.
5. BRICK WORK WITH AERATED LIGHT WEIGHT CONCRETE BLOCK HAVING CRUSHING STRENGTH NOT LESS THEN 35 kg/cm².
6. WATER ABSORPTION NOT MORE THEN 20% USING 1:4 CEMENT MORTAR.
7. INTERNAL AND EXTERNAL PLASTERING SHALL BE 20 MM THICK USING 1:3 CEMENT MORTAR.

Note : This drawing is issued solely for indicative purposes and for facilitating the Contractor's understanding of the scope and nature of the work. The dimensions, levels, layouts, and all other structural or engineering details shown herein are tentative and shall not be construed as final for execution. The Contractor shall be responsible for preparing, checking, and submitting the final construction drawings, including but not limited to dimensions, levels, reinforcement details, structural details, fabrication details, and all other relevant engineering information, in accordance with the item specifications, data sheets, technical specifications, approved design criteria, applicable codes and standards, site conditions, and geotechnical investigation reports, for review and approval by the Engineer-in-Charge prior to execution. Any modifications, revisions, or variations required during detailed engineering, design development, or execution shall be incorporated by the Contractor at no additional cost to the Employer and shall be carried out strictly as directed and approved by the Engineer-in-Charge.

PROJECT:-

WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS

PART 1 (A) : RHS - BHARUCH (GWSSB)

CLIENT:- GWSSB

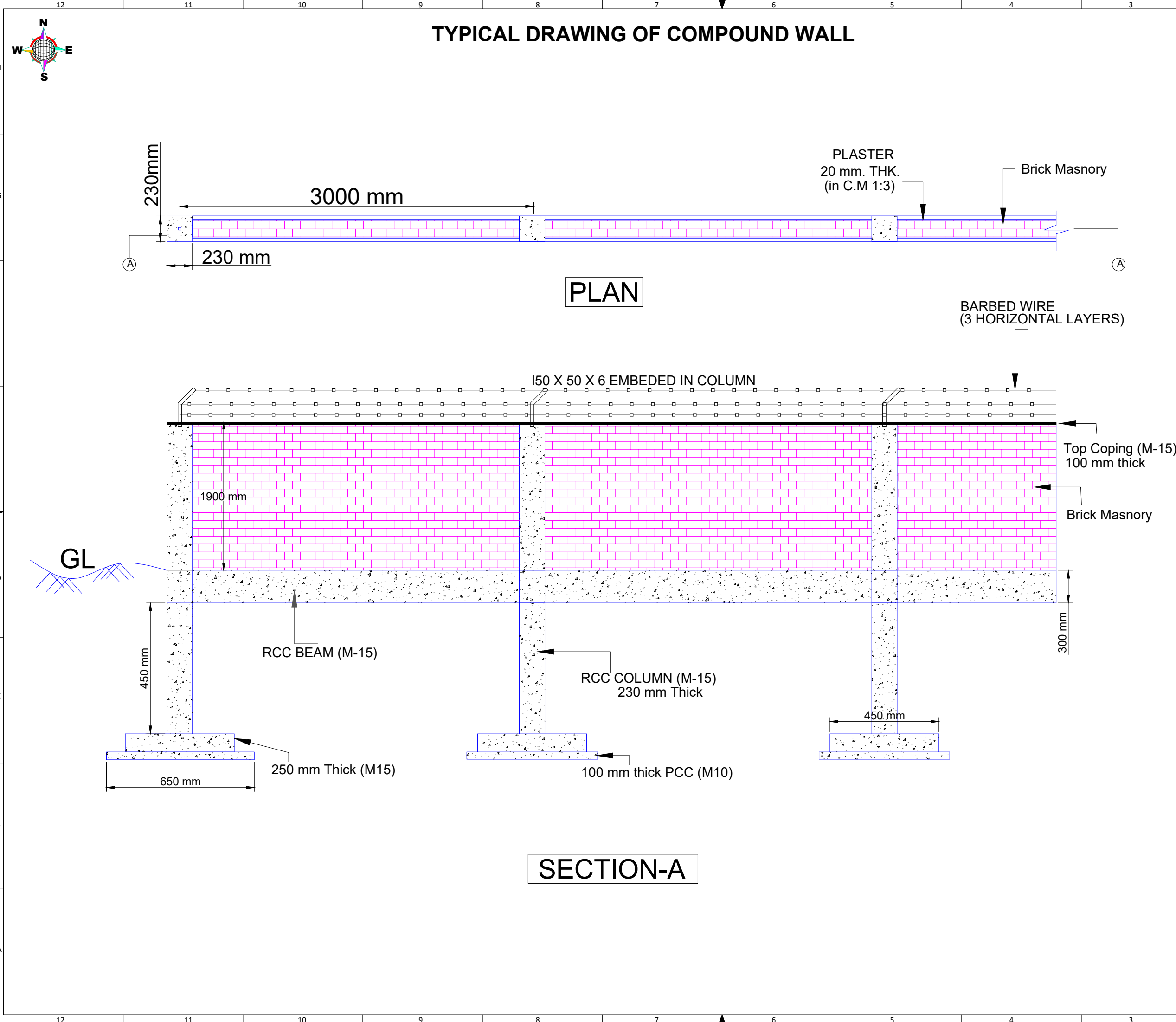
TECHNICAL APPROVAL :-
GWSSB

PMC:-IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

TITLE :-

TYPICAL DRAWING OF COMPOUND WALL

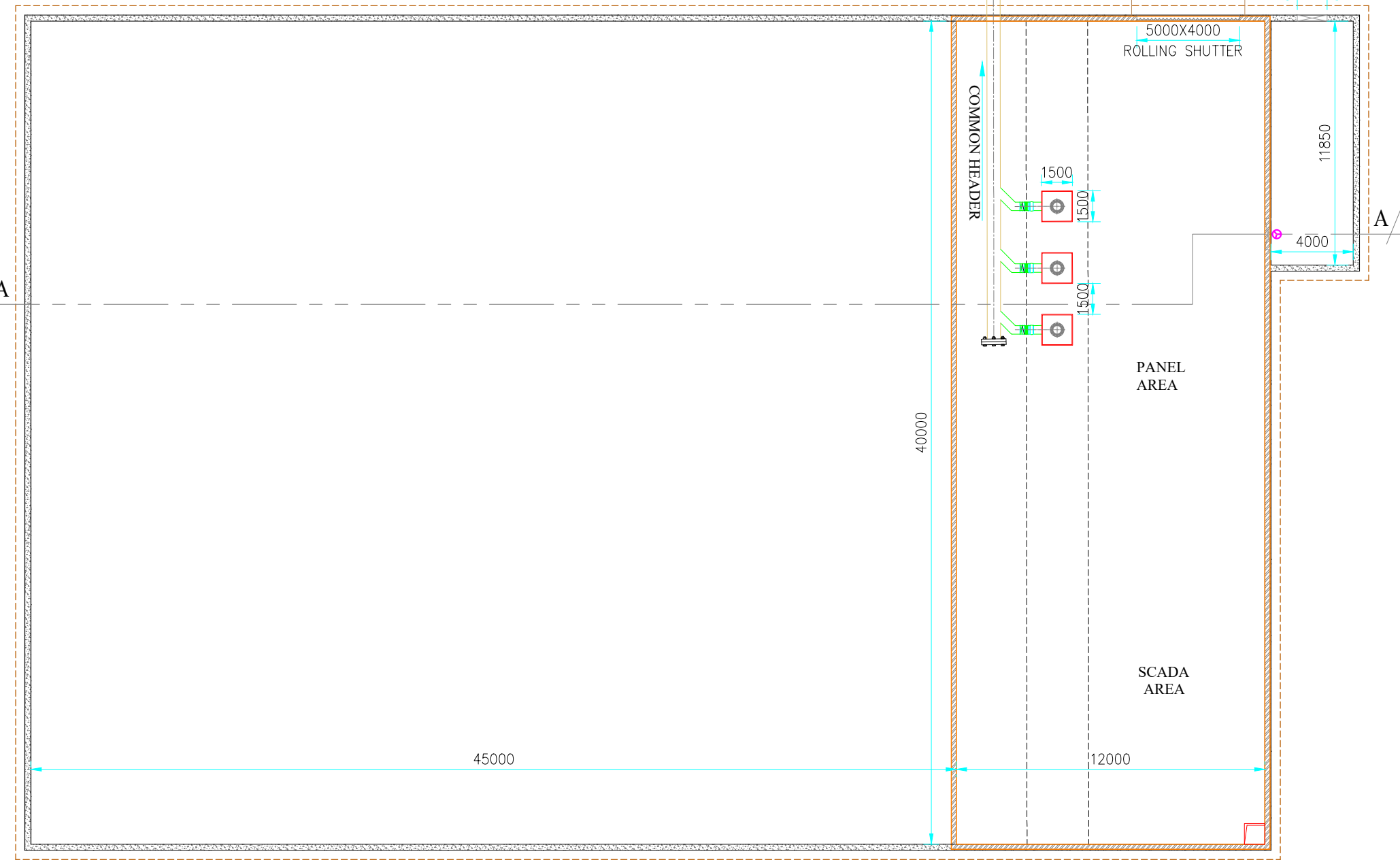
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CHECKED BY : KP	PROJ. CODE	DRG. NO.	REV
SCALE : NTS			
DATE : 07.05.2026	WSS_09	01 OF 01	R4



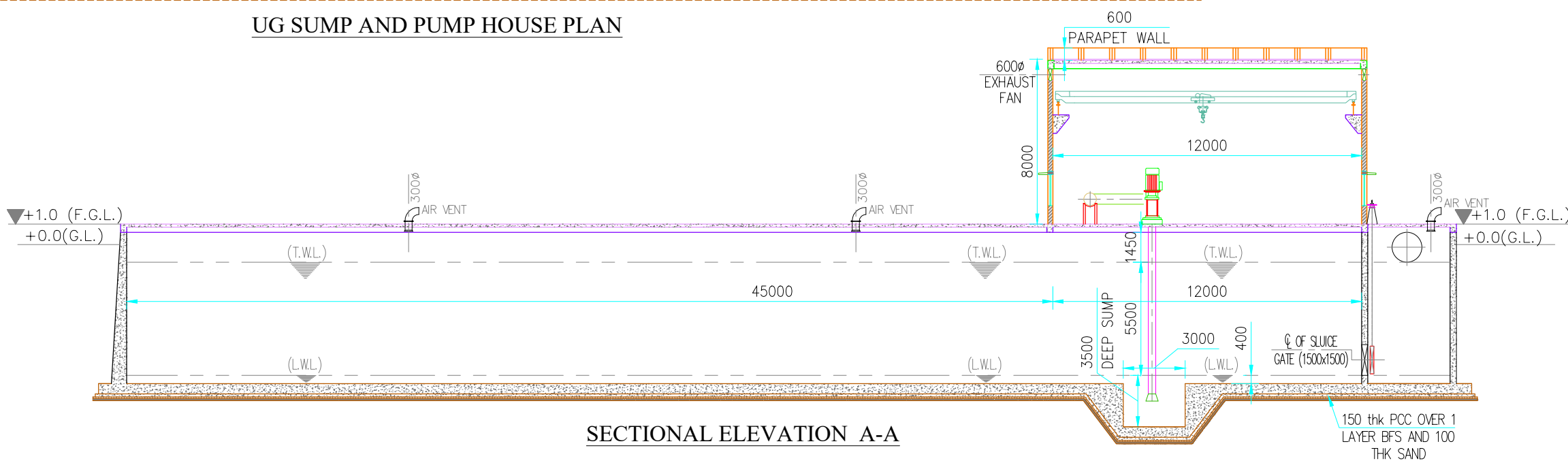
- NOTES:
1. ALL DIMENSIONS ARE IN MM, UNLESS OTHERWISE STATED.
 2. DO NOT SCALE FROM THE DRAWINGS.
 3. PLAIN CEMENT CONCRETE USED FOR FOUNDATION SHALL BE MINIMUM OF M10 GRADE.
 4. RCC USED FOR PLINTH BEAM FOUNDATION AND COLUMN SHALL BE OF M15 GRADE.
 5. BRICK WORK WITH AERATED LIGHT WEIGHT CONCRETE BLOCK HAVING CRUSHING STRENGTH NOT LESS THEN 35 kg/cm².
 6. WATER ABSORPTION NOT MORE THEN 20% USING 1:4 CEMENT MORTAR.
 7. INTERNAL AND EXTERNAL PLASTERING SHALL BE 20 MM THICK USING 1:3 CEMENT MORTAR.

Note : This drawing is issued solely for indicative purposes and for facilitating the Contractor's understanding of the scope and nature of the work. The dimensions, levels, layouts, and all other structural or engineering details shown herein are tentative and shall not be construed as final for execution. The Contractor shall be responsible for preparing, checking, and submitting the final construction drawings, including but not limited to dimensions, levels, reinforcement details, structural details, fabrication details, and all other relevant engineering information, in accordance with the item specifications, data sheets, technical specifications, approved design criteria, applicable codes and standards, site conditions, and geotechnical investigation reports, for review and approval by the Engineer-in-Charge prior to execution. Any modifications, revisions, or variations required during detailed engineering, design development, or execution shall be incorporated by the Contractor at no additional cost to the Employer and shall be carried out strictly as directed and approved by the Engineer-in-Charge.

PROJECT:- WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS PART 1 (A) : RHS - BHARUCH (GWSSB)			
CLIENT:- GWSSB			
TECHNICAL APPROVAL :- GWSSB			
PMC:-IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.			
TITLE :- TYPICAL DRAWING OF COMPOUND WALL			
DRAWN BY : GB	DESIGN BY : GB		
CHECKED BY : KP	PROJ. CODE	DRG. NO.	REV
SCALE : NTS			
DATE : 07.05.2026	WSS_09	01 OF 01	R4



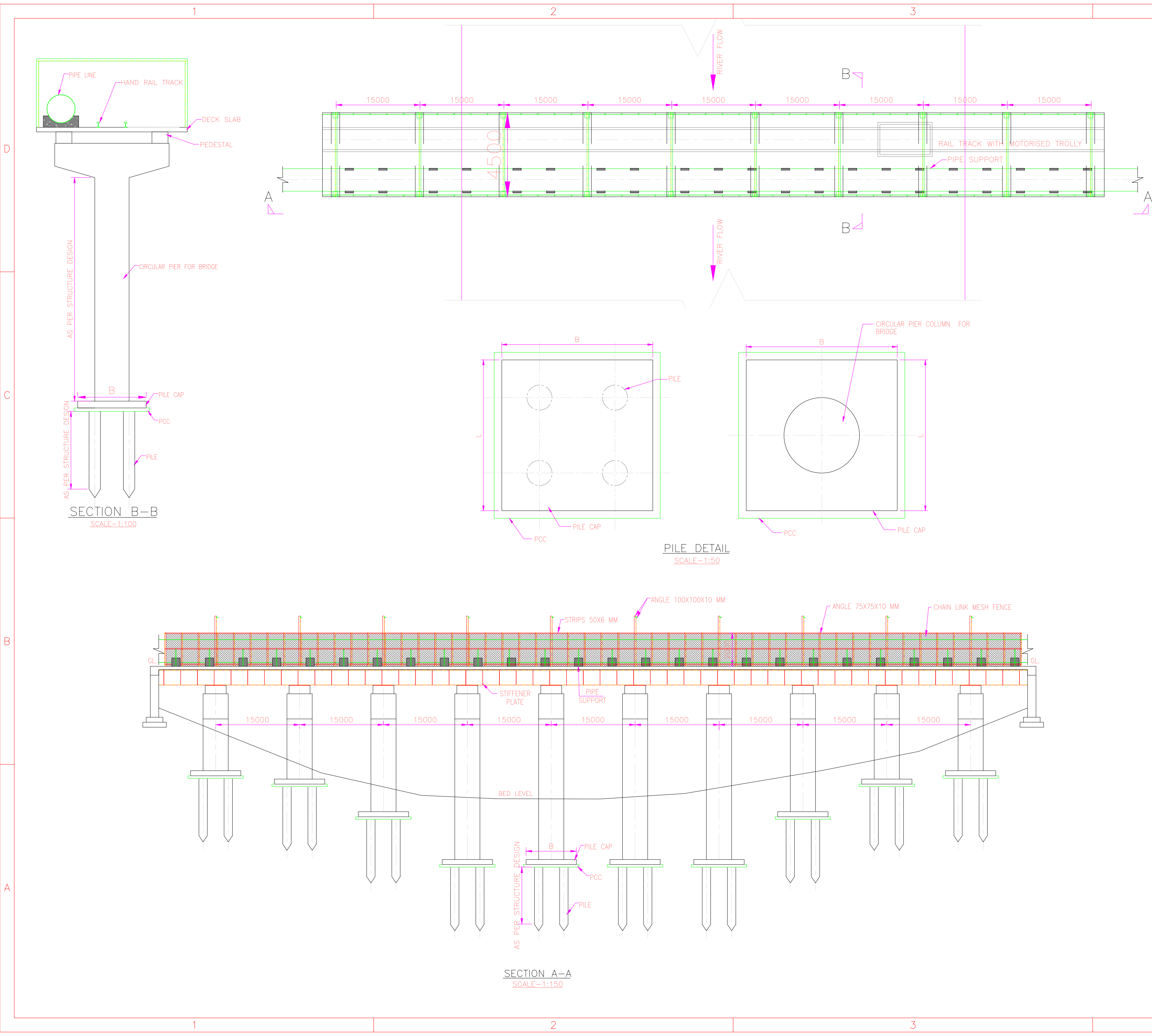
UG SUMP AND PUMP HOUSE PLAN



SECTIONAL ELEVATION A-A

Note : This drawing is issued solely for indicative purposes and for facilitating the Contractor's understanding of the scope and nature of the work. The dimensions, levels, layouts, and all other structural or engineering details shown herein are tentative and shall not be construed as final for execution. The Contractor shall be responsible for preparing, checking, and submitting the final construction drawings, including but not limited to dimensions, levels, reinforcement details, structural details, fabrication details, and all other relevant engineering information, in accordance with the item specifications, data sheets, technical specifications, approved design criteria, applicable codes and standards, site conditions, and geotechnical investigation reports, for review and approval by the Engineer-in-Charge prior to execution. Any modifications, revisions, or variations required during detailed engineering, design development, or execution shall be incorporated by the Contractor at no additional cost to the Employer and shall be carried out strictly as directed and approved by the Engineer-in-Charge.

PROJECT:- WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS			
PART 1 (A) : RHS - BHARUCH (GWSSB)			
CLIENT:- GWSSB			
TECHNICAL APPROVAL :- GWSSB			
PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.			
TITLE :- LAYOUT OF PUMPING STATION AND SUMP AT PALEJ HW			
DRAWN BY : DS	DESIGN BY : SY		
CHECKED BY : JC	PROJ. CODE	DRG. NO.	REV
SCALE : NTS	WSS_09	01 OF 01	R4
DATE : 01.05.2026			



GENERAL NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETERS AND ALL LEVELS ARE IN METRES ONLY, UNLESS OTHERWISE NOTED.
2. ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED. DO NOT SCALE THE DRAWING.
3. THIS DRAWING IS FOR REFERENCE PURPOSE ONLY

Note : This drawing is issued solely for indicative purposes and for facilitating the Contractor's understanding of the scope and nature of the work. The dimensions, levels, layouts, and all other structural or engineering details shown herein are tentative and shall not be construed as final for execution. The Contractor shall be responsible for preparing, checking, and submitting the final construction drawings, including but not limited to dimensions, levels, reinforcement details, structural details, fabrication details, and all other relevant engineering information, in accordance with the item specifications, data sheets, technical specifications, approved design criteria, applicable codes and standards, site conditions, and geotechnical investigation reports, for review and approval by the Engineer-in-Charge prior to execution. Any modifications, revisions, or variations required during detailed engineering, design development, or execution shall be incorporated by the Contractor at no additional cost to the Employer and shall be carried out strictly as directed and approved by the Engineer-in-Charge.

PROJECT:-

WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS

PART 1 (A) : RHS - BHARUCH (GWSSB)

CLIENT:- GWSSB

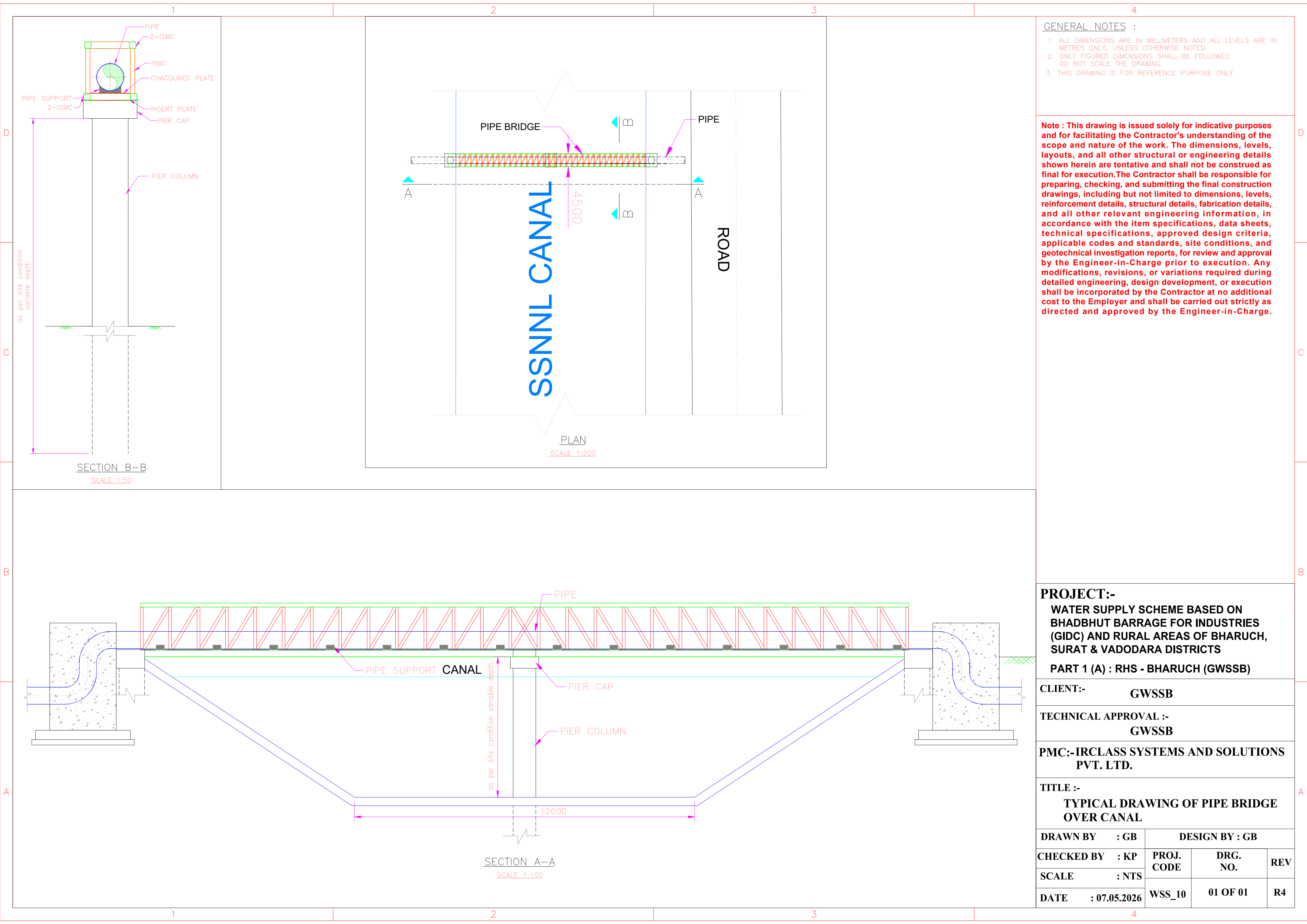
TECHNICAL APPROVAL :- GWSSB

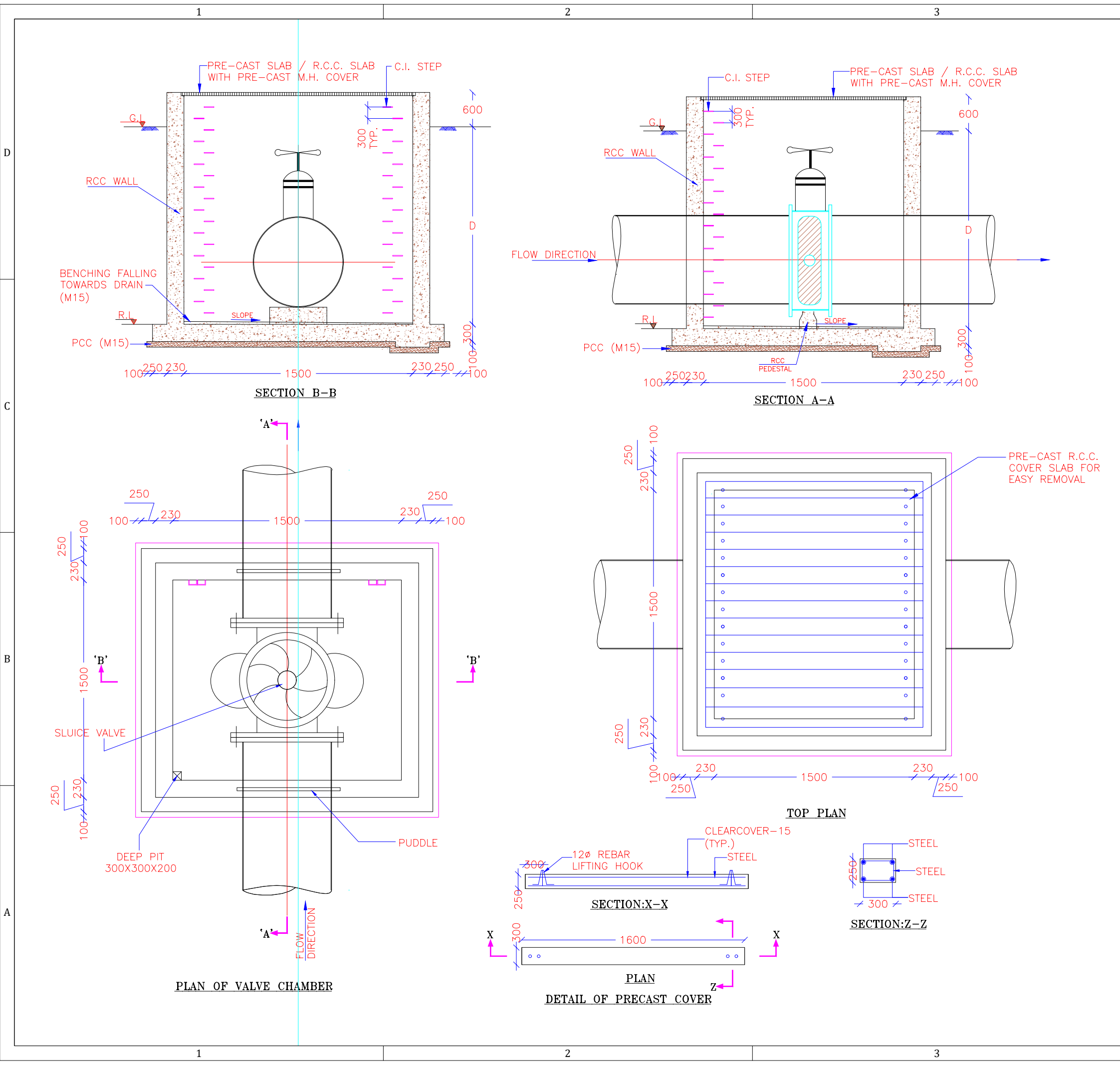
PMC:-IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

TITLE :-

TYPICAL DRAWING OF PIPE BRIDGE OVER RIVER

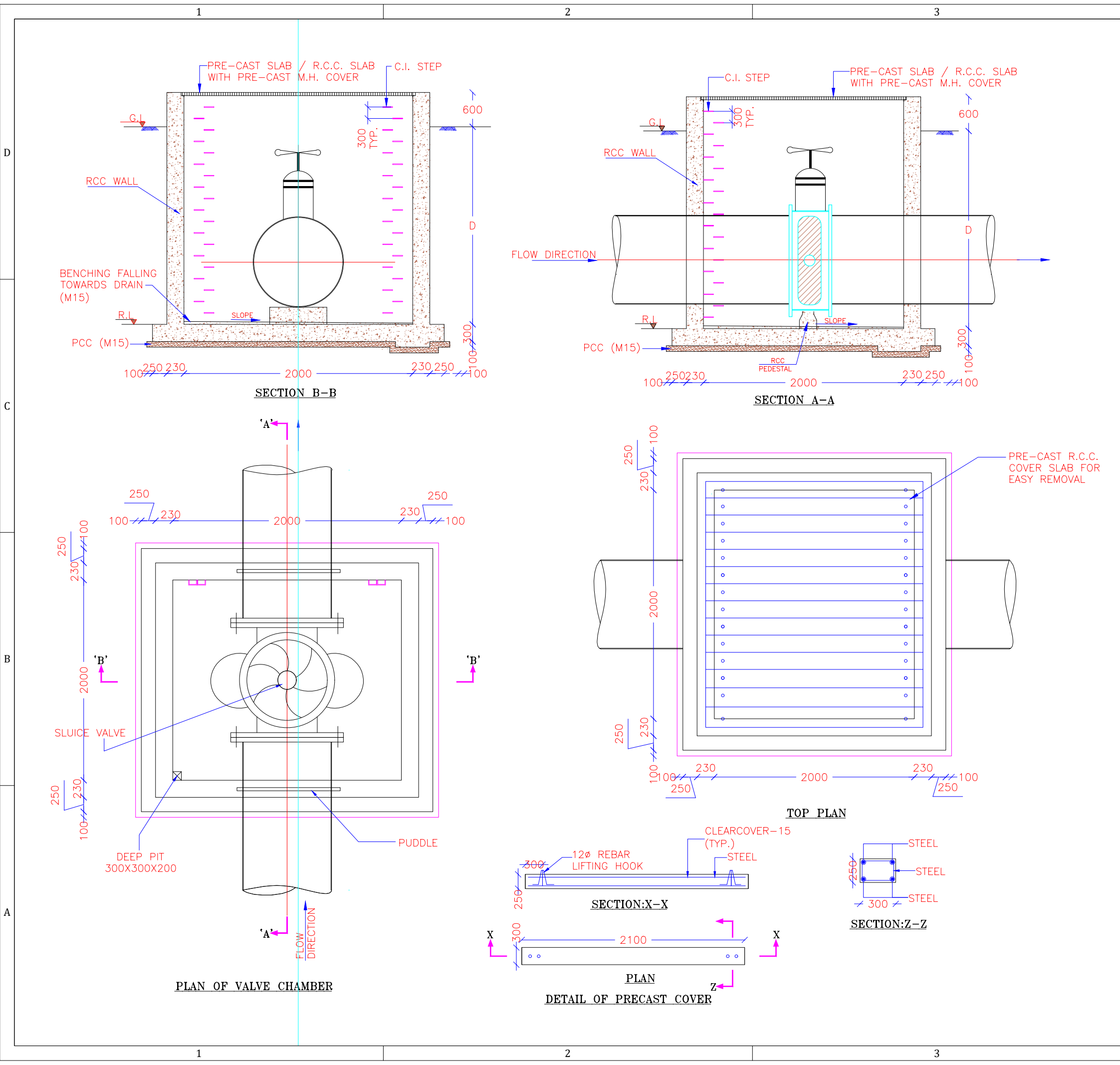
DRAWN BY : GB	DESIGN BY : GB		
CHECKED BY : KP	PROJ. CODE	DRG. NO.	REV
SCALE : NTS	WSS_09	01 OF 01	R4
DATE : 07.05.2026			





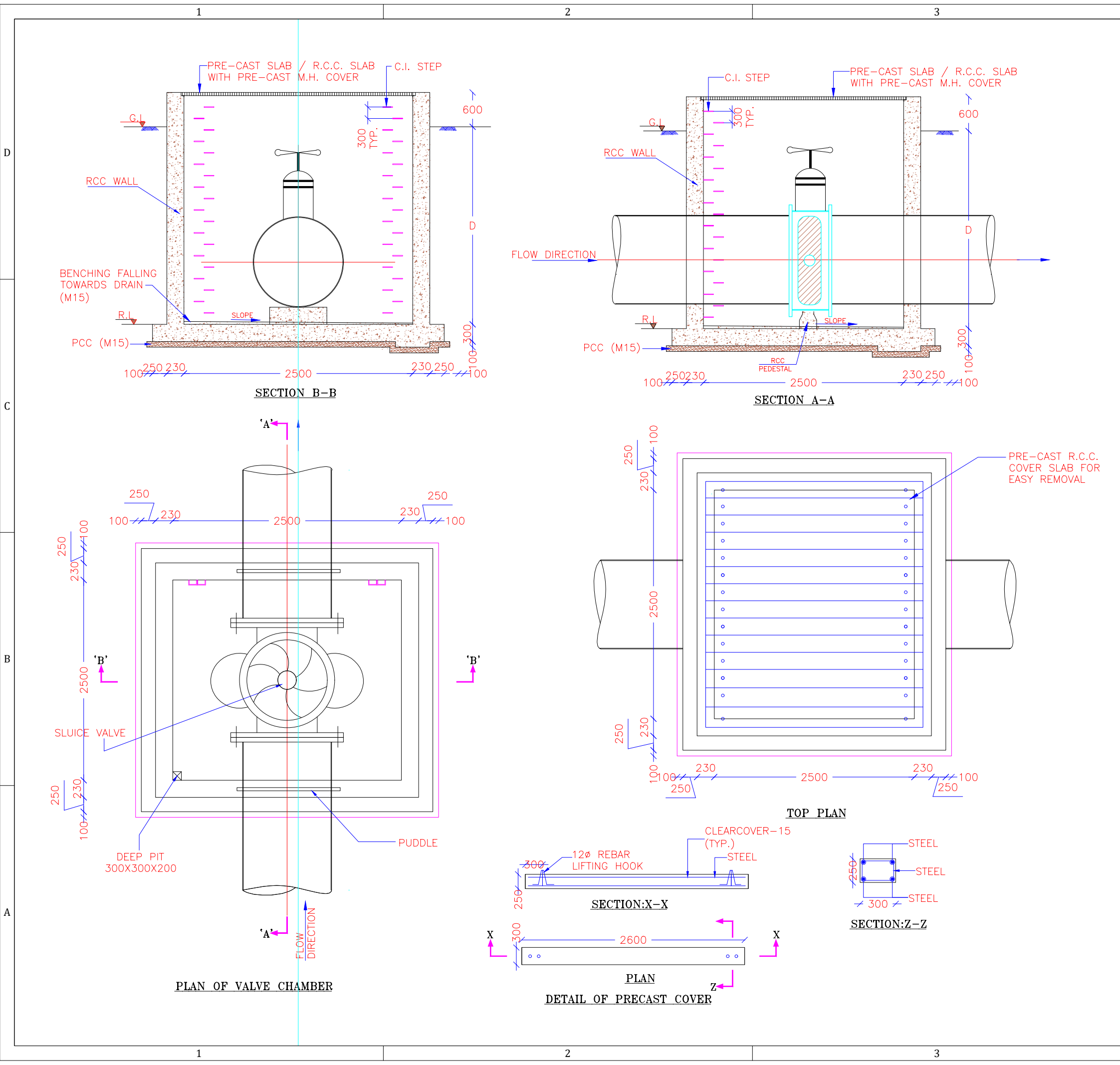
Note : This drawing is issued solely for indicative purposes and for facilitating the Contractor's understanding of the scope and nature of the work. The dimensions, levels, layouts, and all other structural or engineering details shown herein are tentative and shall not be construed as final for execution. The Contractor shall be responsible for preparing, checking, and submitting the final construction drawings, including but not limited to dimensions, levels, reinforcement details, structural details, fabrication details, and all other relevant engineering information, in accordance with the item specifications, data sheets, technical specifications, approved design criteria, applicable codes and standards, site conditions, and geotechnical investigation reports, for review and approval by the Engineer-in-Charge prior to execution. Any modifications, revisions, or variations required during detailed engineering, design development, or execution shall be incorporated by the Contractor at no additional cost to the Employer and shall be carried out strictly as directed and approved by the Engineer-in-Charge.

PROJECT:- WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS PART 1 (A) : RHS - BHARUCH (GWSSB)			
CLIENT:- GWSSB			
TECHNICAL APPROVAL :- GWSSB			
PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.			
TITLE :- TYPICAL DRAWING OF SLUICE VALVE CHAMBER (1.5 X 1.5 X 1.5 M)			
DRAWN BY : GB		DESIGN BY : GB	
CHECKED BY : KP		PROJ. CODE	DRG. NO.
SCALE : NTS		WSS_10	01 OF 01
DATE : 07.05.2026			REV R4

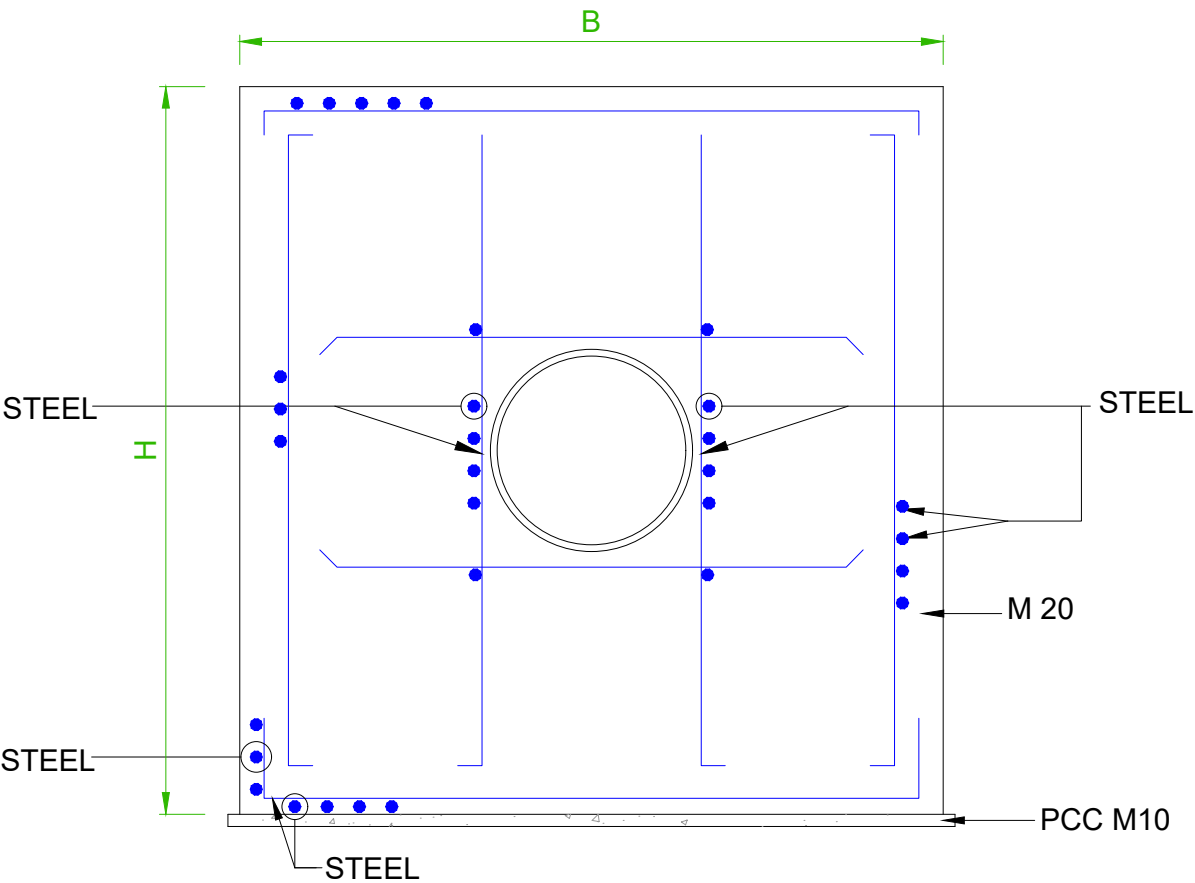


Note : This drawing is issued solely for indicative purposes and for facilitating the Contractor's understanding of the scope and nature of the work. The dimensions, levels, layouts, and all other structural or engineering details shown herein are tentative and shall not be construed as final for execution. The Contractor shall be responsible for preparing, checking, and submitting the final construction drawings, including but not limited to dimensions, levels, reinforcement details, structural details, fabrication details, and all other relevant engineering information, in accordance with the item specifications, data sheets, technical specifications, approved design criteria, applicable codes and standards, site conditions, and geotechnical investigation reports, for review and approval by the Engineer-in-Charge prior to execution. Any modifications, revisions, or variations required during detailed engineering, design development, or execution shall be incorporated by the Contractor at no additional cost to the Employer and shall be carried out strictly as directed and approved by the Engineer-in-Charge.

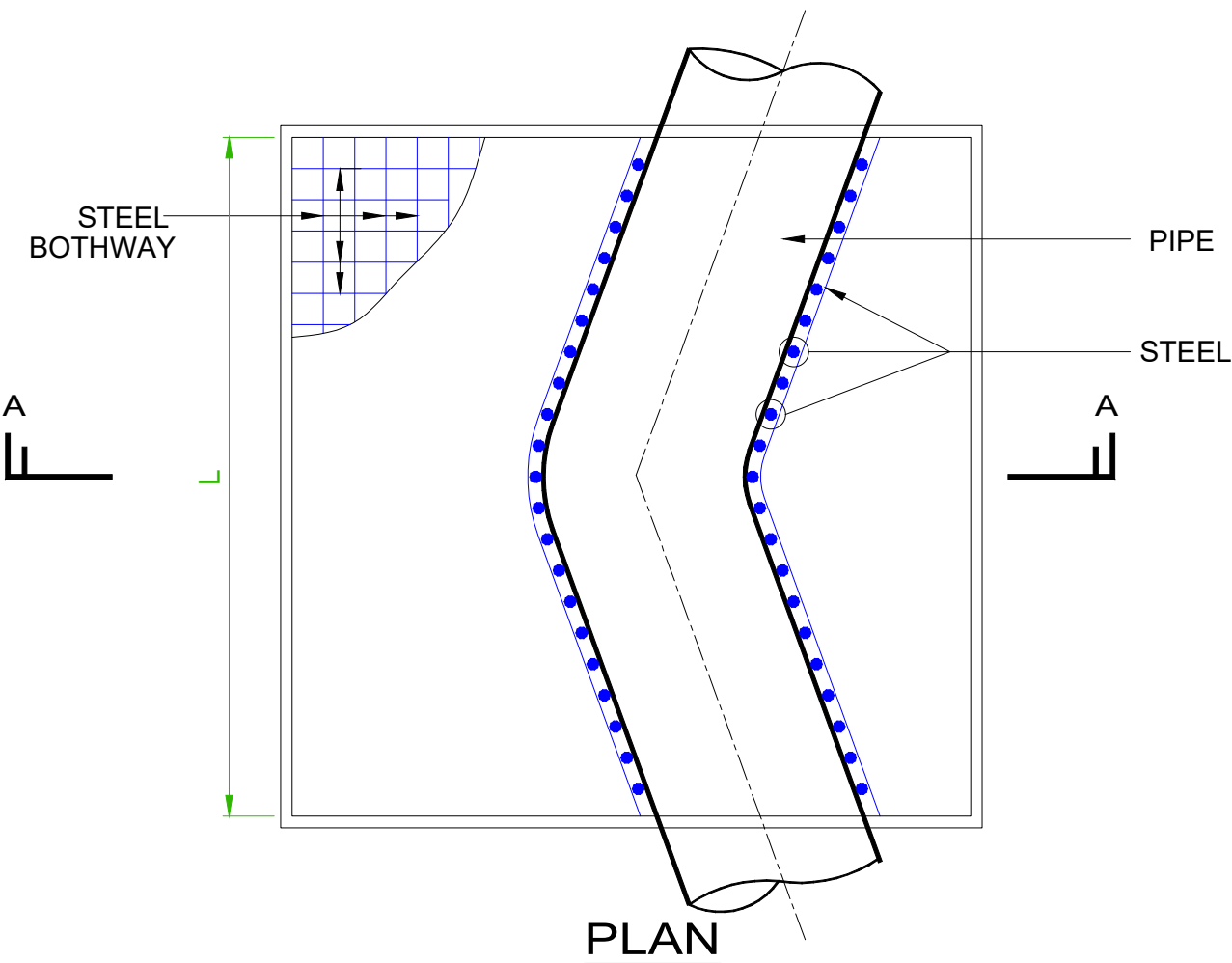
PROJECT:- WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS PART 1 (A) : RHS - BHARUCH (GWSSB)				B	
CLIENT:- GWSSB					
TECHNICAL APPROVAL :- GWSSB					
PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.				A	
TITLE :- TYPICAL DRAWING OF SLUICE VALVE CHAMBER (2.0 X 2.0 X 2.0 M)					
DRAWN BY : GB		DESIGN BY : GB			
CHECKED BY : KP		PROJ. CODE	DRG. NO.		REV
SCALE : NTS					
DATE : 07.05.2026		WSS_09	01 OF 01	R4	
		4			



<p>Note : This drawing is issued solely for indicative purposes and for facilitating the Contractor's understanding of the scope and nature of the work. The dimensions, levels, layouts, and all other structural or engineering details shown herein are tentative and shall not be construed as final for execution. The Contractor shall be responsible for preparing, checking, and submitting the final construction drawings, including but not limited to dimensions, levels, reinforcement details, structural details, fabrication details, and all other relevant engineering information, in accordance with the item specifications, data sheets, technical specifications, approved design criteria, applicable codes and standards, site conditions, and geotechnical investigation reports, for review and approval by the Engineer-in-Charge prior to execution. Any modifications, revisions, or variations required during detailed engineering, design development, or execution shall be incorporated by the Contractor at no additional cost to the Employer and shall be carried out strictly as directed and approved by the Engineer-in-Charge.</p>			
<p>PROJECT:- WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS PART 1 (A) : RHS - BHARUCH (GWSSB)</p>			
<p>CLIENT:- GWSSB</p>			
<p>TECHNICAL APPROVAL :- GWSSB</p>			
<p>PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.</p>			
<p>TITLE :- TYPICAL DRAWING OF SLUICE VALVE CHAMBER (2.5 X 2.5 X 2.5 M)</p>			
<p>DRAWN BY : GB</p>		<p>DESIGN BY : GB</p>	
<p>CHECKED BY : KP</p>		<p>PROJ. CODE</p>	<p>DRG. NO.</p>
<p>SCALE : NTS</p>			<p>REV</p>
<p>DATE : 07.05.2026</p>		<p>WSS_09</p>	<p>01 OF 01 R4</p>



SECTION A-A



PLAN

- NOTE:-
- 1. THE THRUST BLOCK & REINFORCEMENT SIZE AS PER DESIGN REQUIREMENT
 - 2. DIMENSIONS & DETAILS SHOWN IN DRAWING ARE MINIMUM & INDICATIVE ONLY. BIDDER SHALL HAVE TO DESIGN AND PROVIDE APPROPRIATELY TO MEET THE SYSTEM REQUIREMENT.
 - 3. H, B & L AS PER DESIGN REQUIREMENT.
 - 4. STEEL DETAILING AS PER DETAIL DESIGN.
 - 5. PIPE COVERED WITH R.C.C. WORK.

Note : This drawing is issued solely for indicative purposes and for facilitating the Contractor's understanding of the scope and nature of the work. The dimensions, levels, layouts, and all other structural or engineering details shown herein are tentative and shall not be construed as final for execution. The Contractor shall be responsible for preparing, checking, and submitting the final construction drawings, including but not limited to dimensions, levels, reinforcement details, structural details, fabrication details, and all other relevant engineering information, in accordance with the item specifications, data sheets, technical specifications, approved design criteria, applicable codes and standards, site conditions, and geotechnical investigation reports, for review and approval by the Engineer-in-Charge prior to execution. Any modifications, revisions, or variations required during detailed engineering, design development, or execution shall be incorporated by the Contractor at no additional cost to the Employer and shall be carried out strictly as directed and approved by the Engineer-in-Charge.

PROJECT:-
WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS
PART 1 (A) : RHS - BHARUCH (GWSSB)

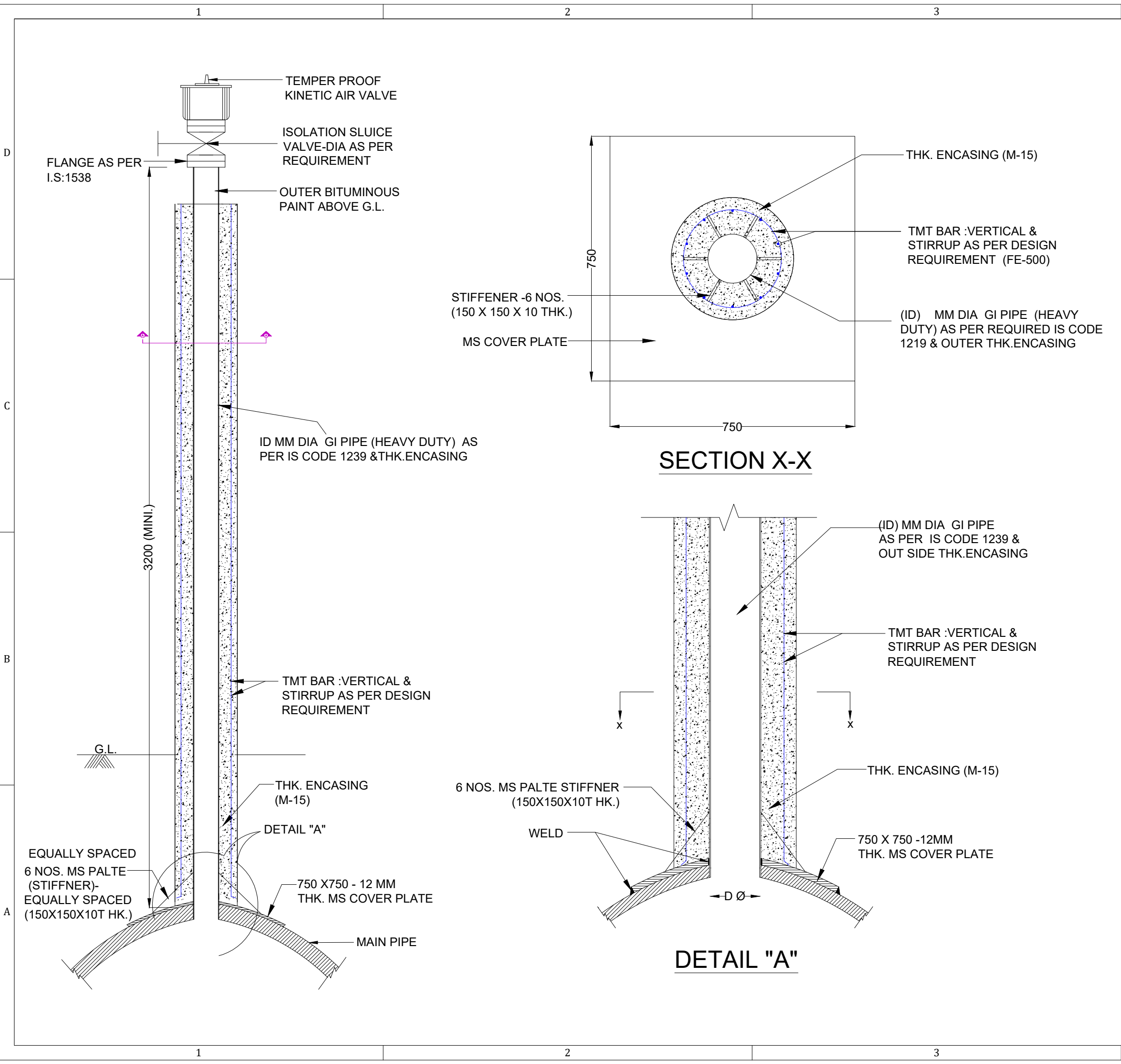
CLIENT:- GWSSB

TECHNICAL APPROVAL :- GWSSB

PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

TITLE :-
TYPICAL DETAILS OF SINGLE PIPE THRUST BLOCK IN R.C.C.

DRAWN BY : GB		DESIGN BY : GB		
CHECKED BY : KP		PROJ. CODE	DRG. NO.	REV
SCALE : NTS				
DATE : 07.05.2026		WSS_09	01 OF 01	R4



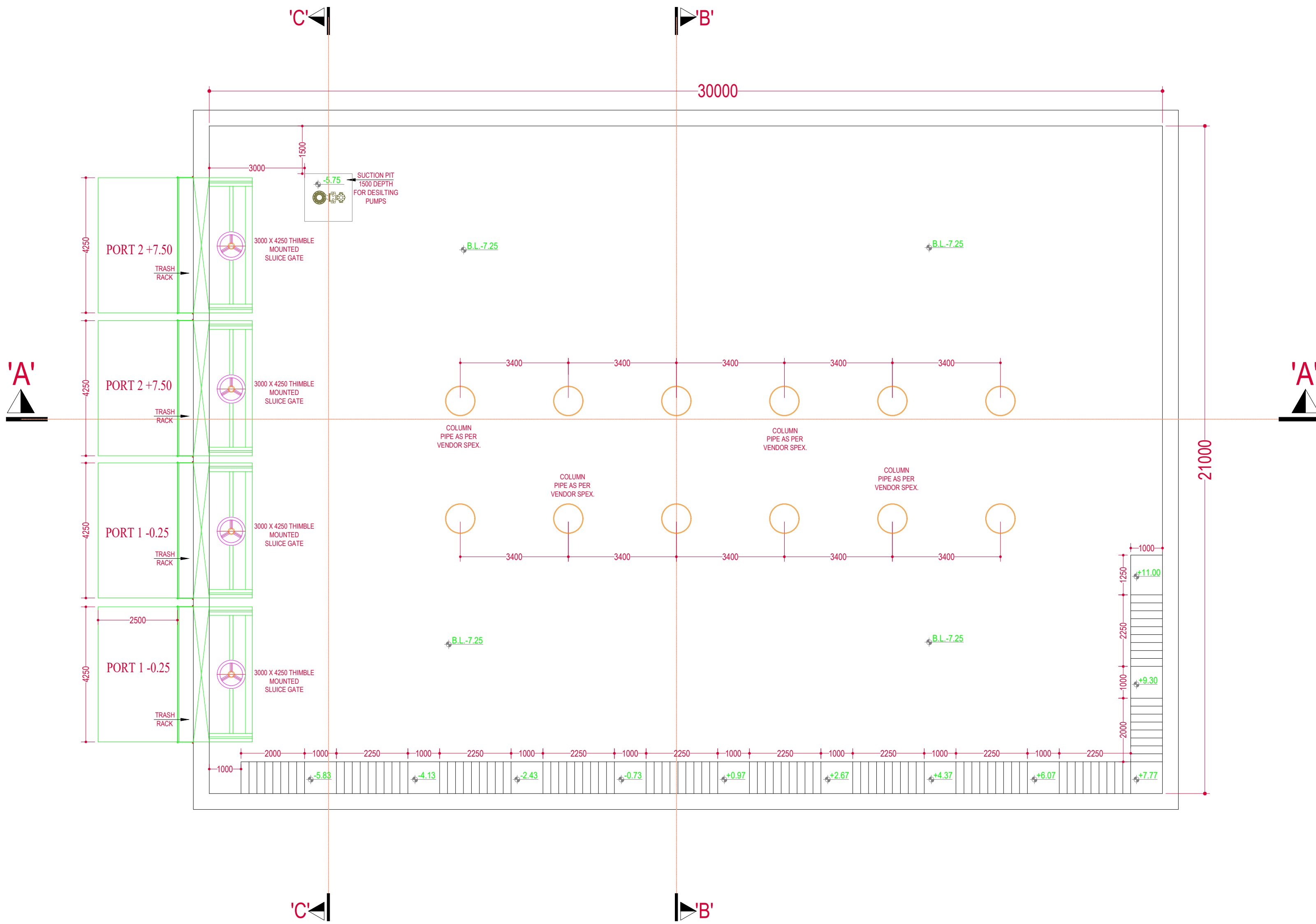
4

NOTE:- <div>1. ALL DIMENSION ARE IN MM UNLESS MENTIONED.</div> <div>2. THE BARE PART OF THE COVER PLATE AND OUTER SIDE OF RISER PIPE UP G.L. AND CUTOUT PORTION SHALL BE COATED WITH 3LPE OR 1000 MICRON HIGH BUILD EPOXY PAINT.</div> <div>3. THE GRADE OF CONCRETE FOR ENCASING IS M-15.</div> <div>4. MINIMUM AIR VENT PIPE LENGTH SHALL BE 5M, HOWEVER AIR VENT PIPE SHALL BE MINIMUM 3M ABOVE G.L.</div> <div>5. DIMENSIONS & DETAILS SHOWN IN DRAWING ARE MINIMUM & INDICATIVE ONLY BIDDER SHALL HAVE TO DESIGN OF PROVIDE TO APPROPRIATELY TO MEET THE SYSTEM REQUIREMENT.</div>				
VALVE DIA		OUTER THICK.OF ENCASING		
50 MM DIA		100 MM DIA		
80 MM DIA		100 MM DIA		
100 MM DIA		150 MM DIA		
150 MM DIA		150 MM DIA		
<div>Note : This drawing is issued solely for indicative purposes and for facilitating the Contractor's understanding of the scope and nature of the work. The dimensions, levels, layouts, and all other structural or engineering details shown herein are tentative and shall not be construed as final for execution. The Contractor shall be responsible for preparing, checking, and submitting the final construction drawings, including but not limited to dimensions, levels, reinforcement details, structural details, fabrication details, and all other relevant engineering information, in accordance with the item specifications, data sheets, technical specifications, approved design criteria, applicable codes and standards, site conditions, and geotechnical investigation reports, for review and approval by the Engineer-in-Charge prior to execution. Any modifications, revisions, or variations required during detailed engineering, design development, or execution shall be incorporated by the Contractor at no additional cost to the Employer and shall be carried out strictly as directed and approved by the Engineer-in-Charge.</div>				
<div>PROJECT:-</div> <div>WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS</div> <div>PART 1 (A) : RHS - BHARUCH (GWSSB)</div>				
CLIENT:- GWSSB				
TECHNICAL APPROVAL :- GWSSB				
PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.				
<div>TITLE :-</div> <div>TYPICAL DRAWING OF AIR VALVE ARRANGEMENT</div>				
DRAWN BY : GB		DESIGN BY : GB		
CHECKED BY : KP		PROJ. CODE	DRG. NO.	REV
SCALE : NTS				
DATE : 07.05.2026		WSS_09	01 OF 01	R4

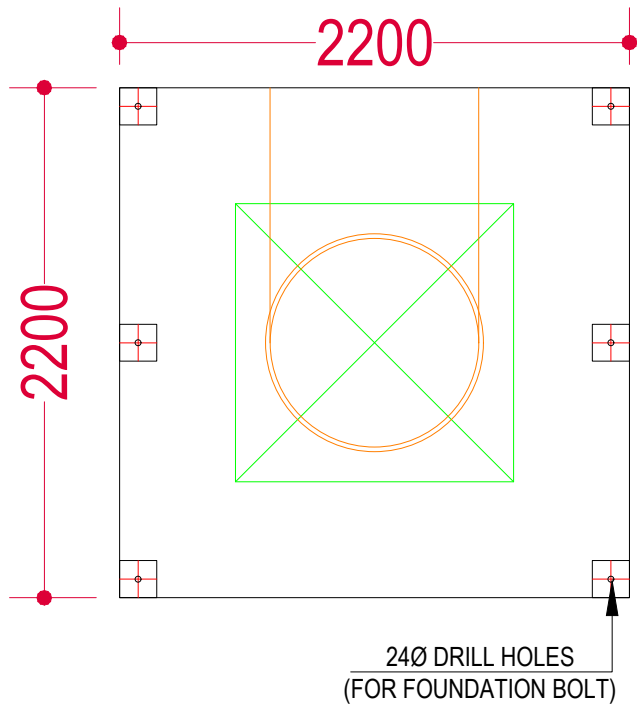
4

Volume – IV: Drawings

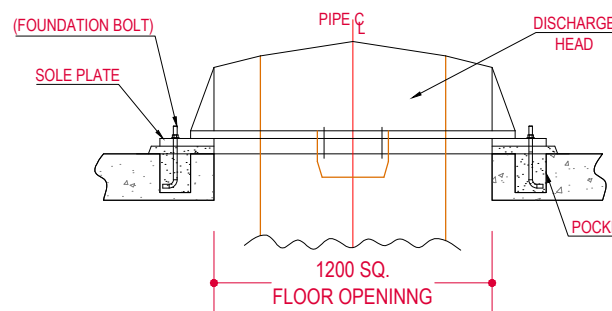
Part 1 (B) : RHS Bharuch (GIDC)



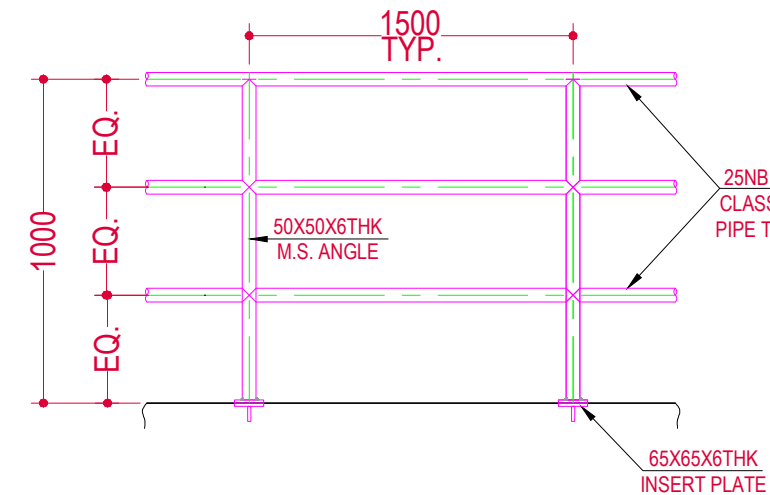
PLAN AT LVL -7.25
SCALE = 1:1



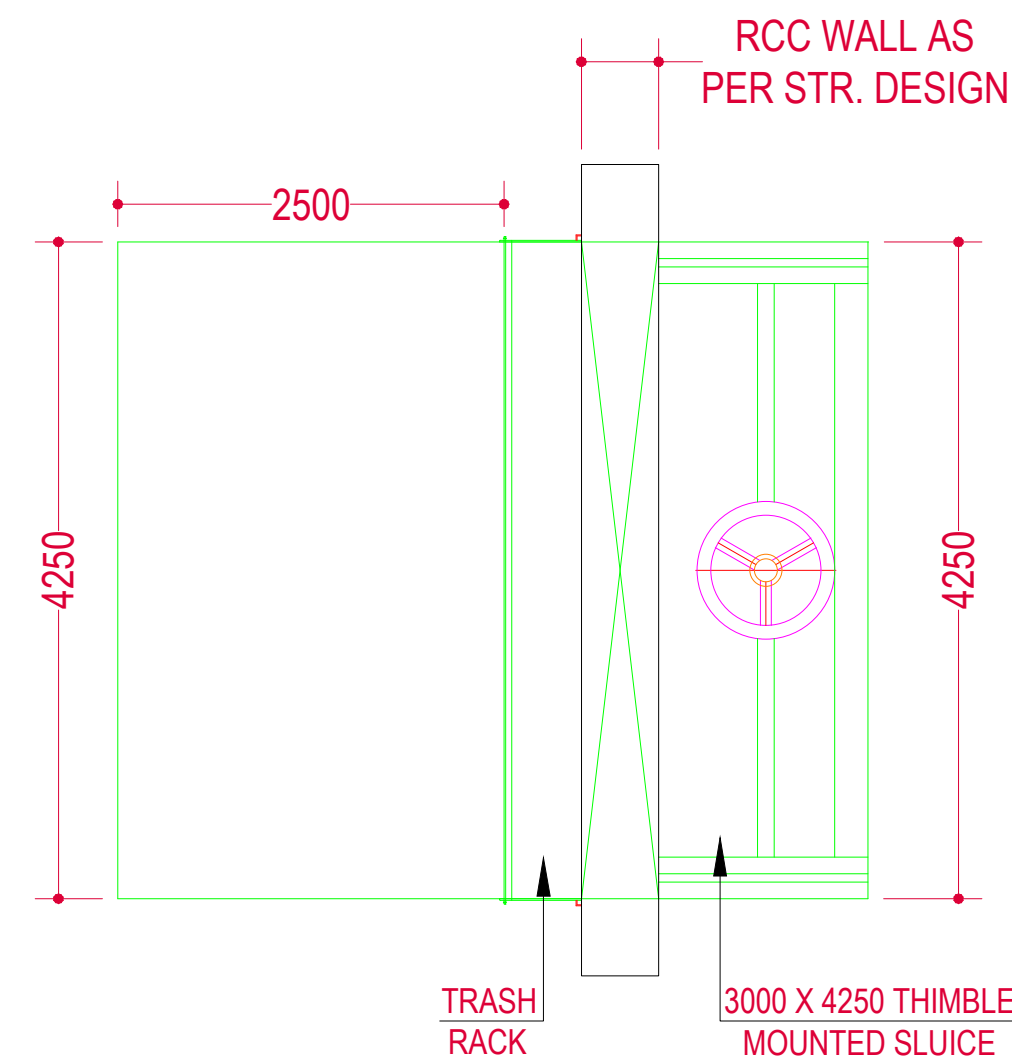
FOUNDATION PLAN
SCALE = 1:3
"HOLD"



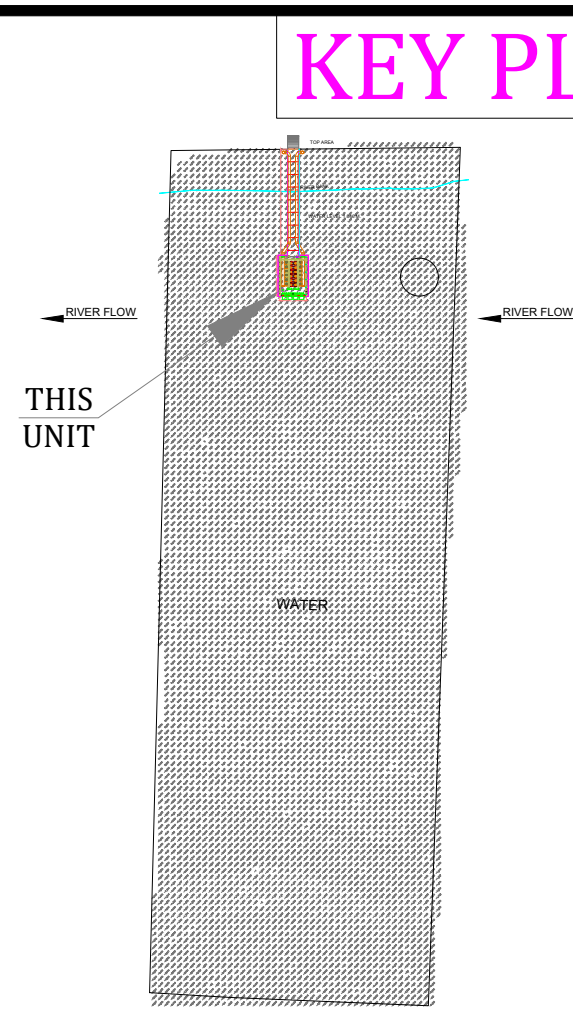
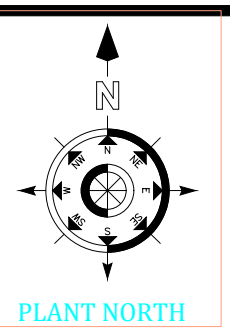
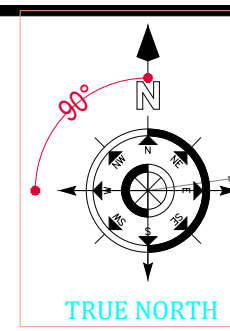
FOUNDATION SECTION
SCALE = 1:3
"HOLD"



(TYP.) HANDRAIL DETAILS
(SCALE: 1:3)



DETAILS OF TRASH RACK & GATE
SCALE = 1:2



KEY PLAN

GENERAL NOTES

- ALL LEVELS ARE IN M & DIMENSIONS ARE IN MM.
- THICKNESS OF STRUCTURAL MEMBERS I.E.RCC SLAB, BEAM, COLUMN, FOOTING, PCC SHOWN IN DRAWING IS INDICATIVE ONLY. IT SHALL BE FINALIZED DURING STRUCTURAL DESIGN.
- MECHANICAL EQUIPMENTS, PIPING ARRANGEMENT SHOWN ARE INDICATIVE, IT SHALL BE MATCHED WITH VENDOR DWG. & DETAILS.
- FOUNDATION OF ALL EQUIPMENTS ARE ON "HOLD" & IT SHALL BE AS PER VENDOR DWG. & DETAILS.
- SCOUR DEPTH FOR INTAKE WELL WILL BE AS PER SBC REPORT & STRUCTURAL DESIGN.
- FOR ANY OTHER MISCELLANEOUS SPECIFICATIONS, REFER TENDER DOCUMENT.

ABBREVIATION

A.G.L.	AVERAGE (NATURAL) GROUND LEVEL
R.B.L.	RIVER BED LEVEL
W.L.	WATER LEVEL
B.L.	BOTTOM/BED LEVEL
M.D.D.L.	MINIMUM DRAW DOWN LEVEL
M.W.L.	MINIMUM WATER LEVEL
H.F.L.	HIGH FLOOR LEVEL

SCHEDULE OF FINISHING

- PUMP HOUSE PLASTER:- INTERNAL WALL 15MM THK. IN SINGLE COAT C.M. 1:4
PUMP HOUSE PLASTER:- CEILING 15MM THK. IN SINGLE COAT C.M. 1:4
PUMP HOUSE PLASTER:- INSIDE WELL 20MM THK. W.P. PLASTER IN C.M. 1:2
PUMP HOUSE PLASTER:- OUTSIDE WELL 20MM TH. SAND FACED PLASTER IN 2 COATS, BASE COAT OF 12MM TH. IN C.M. 1:4 & FINISHING COAT OF 8MM TH. & C.M. 1:3
PUMP HOUSE PAINT:- PUMP HOUSE INTERNAL WALLS - DISTEMPER PAINT
PUMP HOUSE PAINT:- PUMP HOUSE OUTER WALLS - SNOWCEM PAINT
FLOOR:- PUMP HOUSE PLINTH LEVELS - KOTA STONE
ALL WALLS SHALL BE 230 THK. MASONRY IN C.M. 1:4

SCHEDULE OF OPENING

SR.NO.	TYPE	SIZE	M.O.C
1.	RS	5000 x 5000	MS ROLLING SHUTTER
2.	W	1200 x 1200	ALUMINUM GLAZED VENTILATORS
3.	V	1200 x 600	ALUMINUM GLAZED VENTILATORS
4.	EX	450 x 450	EXHAUST FAN

VT PUMP (RAW WATER PUMPS)

CAPACITY (CUM/HR)	HEAD (MTR)	WORKING	STANDBY	MOTORIZED BFP (MM)	DPCV (MM)	DEL PIPE (MM)	HEADER PIPE (MM)
3725.00	AS PER DESIGN	8	4	900	900	900	2000

DESIGN PARAMETERS

* H.F.L.	RL. +11.50 M
M.D.D.L.	RL. +2.75 M
RIVER BED LEVEL	RL. -1.00 M
FLOOR LEVEL	RL. +13.50 M

IMPORTANT NOTES

*INDICATES WATER LEVEL / HFL R.L OF 11.50 M @ DISCHARGE Q=81717 CUMEC .

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PROJECT:-

Water Supply Scheme Based on Bhadbhut Barrage for Industries (GIDC) and Rural Areas of Bharuch, Surat & Vadodara Districts

Part 1 (B) : RHS Bharuch (GIDC)

CLIENT:-

GWSSB

TECHNICAL APPROVAL :-

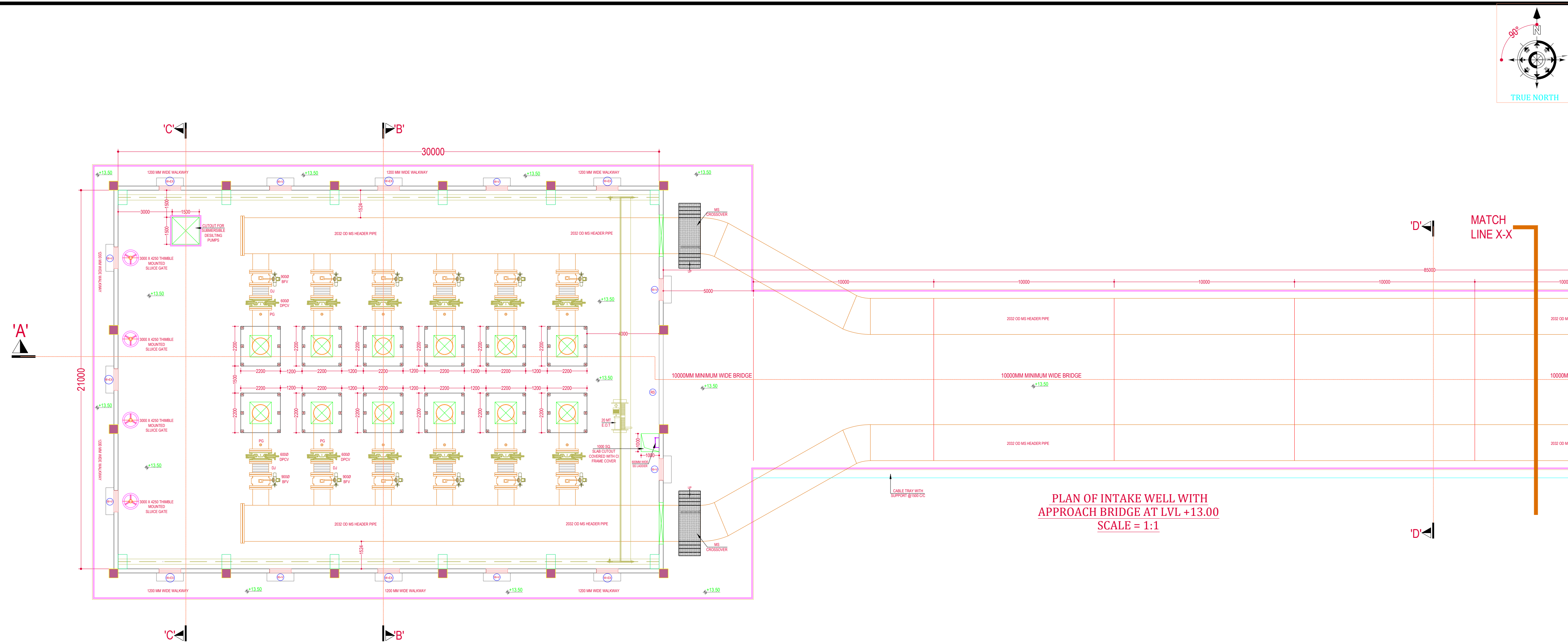
GWSSB

PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

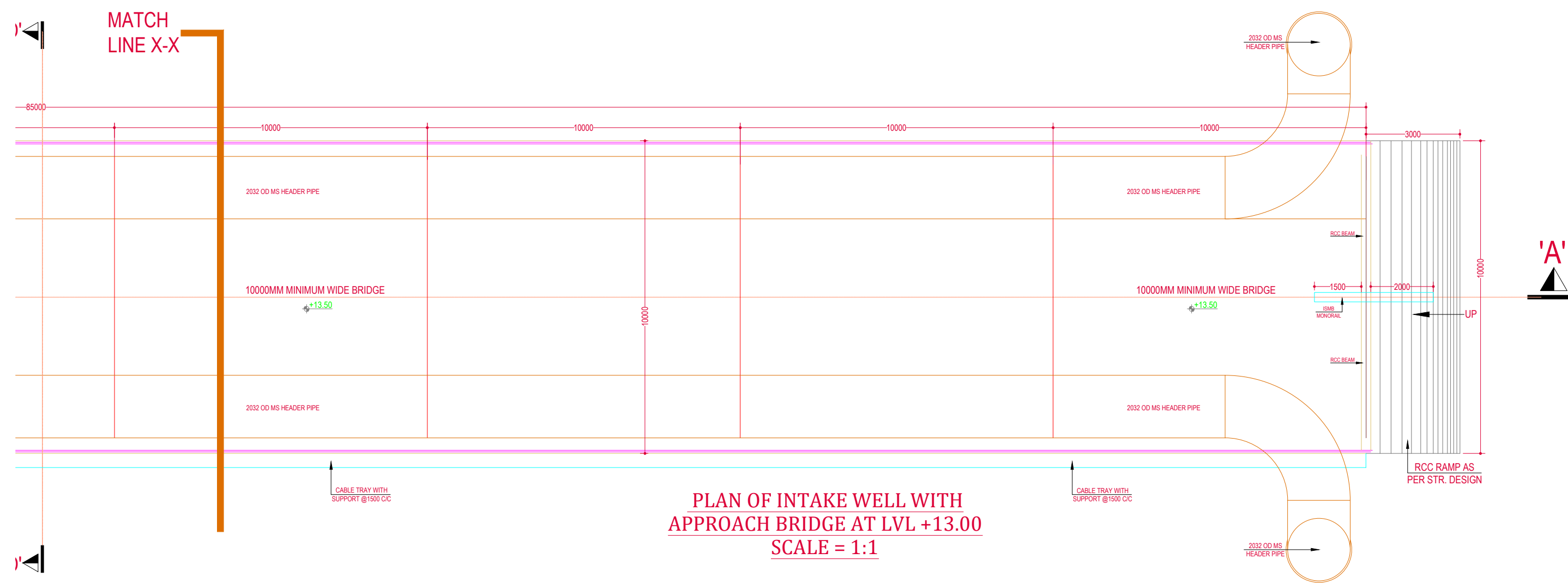
TITLE :-

GAD OF INTAKE WELL & APPROCH
BRIDGE_GIDC VADVA_BHARUCH_

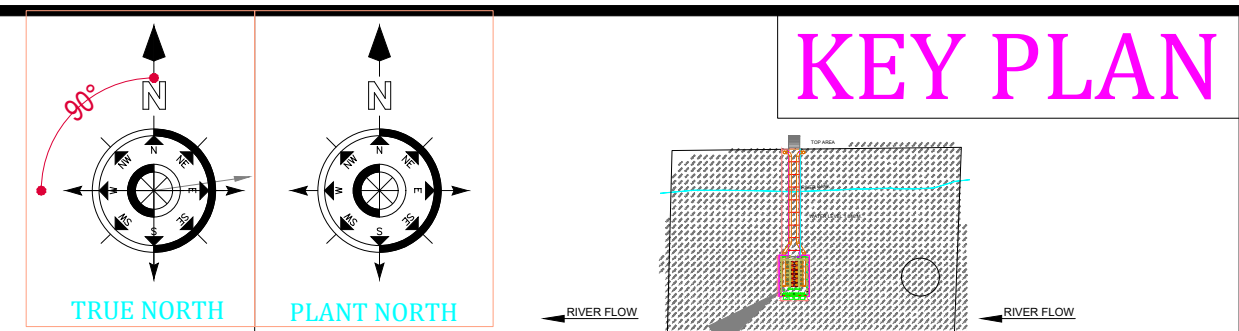
DRAWN BY	: G.B	DESIGN BY :-	G.B	
CHECKED BY	: SY	PROJ. CODE	DRG. NO.	REV
SCALE	: NTS		01 OF 04	R0
DATE	: 24.06.2026			



PLAN OF INTAKE WELL WITH
APPROACH BRIDGE AT LVL +13.00
SCALE = 1:1



PLAN OF INTAKE WELL WITH
APPROACH BRIDGE AT LVL +13.00
SCALE = 1:1



GENERAL NOTES

1. ALL LEVELS ARE IN M & DIMENSIONS ARE IN MM.
2. THICKNESS OF STRUCTURAL MEMBERS I.E.RCC SLAB, BEAM, COLUMN, FOOTING, PCC SHOWN IN DRAWING IS INDICATIVE ONLY. IT SHALL BE FINALIZED DURING STRUCTURAL DESIGN.
3. MECHANICAL EQUIPMENTS, PIPING ARRANGEMENT SHOWN ARE INDICATIVE, IT SHALL BE MATCHED WITH VENDOR DWG. & DETAILS.
4. FOUNDATION OF ALL EQUIPMENTS ARE ON "HOLD" & IT SHALL BE AS PER VENDOR DWG. & DETAILS.
5. SCOUR DEPTH FOR INTAKE WELL WILL BE AS PER SBC REPORT & STRUCTURAL DESIGN.
6. FOR ANY OTHER MISCELLANEOUS SPECIFICATIONS, REFER TENDER DOCUMENT.

ABBREVIATION

A.G.L.	AVERAGE (NATURAL) GROUND LEVEL
R.B.L.	RIVER BED LEVEL
W.L.	WATER LEVEL
B.L.	BOTTOM BED LEVEL
M.D.D.L.	MINIMUM DRAW DOWN LEVEL
M.W.L.	MINIMUM WATER LEVEL
H.F.L.	HIGH FLOOR LEVEL

SCHEDULE OF FINISHING

PUMP HOUSE PLASTER:- INTERNAL WALL 15MM THK. IN SINGLE COAT C.M. 1:4
PUMP HOUSE PLASTER:- CEILING 15MM THK. IN SINGLE COAT C.M. 1:4
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FLOOR:- PUMP HOUSE PLINTH LEVELS - KOTA STONE
ALL WALLS SHALL BE 230 THK. MASONRY IN C.M. 1:4

SCHEDULE OF OPENING

SR.NO.	TYPE	SIZE	M.O.C
1.	RS	5000 x 5000	MS ROLLING SHUTTER
2.	W	1200 x 1200	ALUMINUM GLAZED VENTILATORS
3.	V	1200 x 600	ALUMINUM GLAZED VENTILATORS
4.	EX	450 x 450	EXHAUST FAN

VT PUMP (RAW WATER PUMPS)

CAPACITY (CUM/HR)	HEAD (MTR)	WORKING	STANDBY	MOTORIZED BFV (MM)	DFCV (MM)	DEL PIPE (MM)	HEADER PIPE (MM)
3725.00	AS PER DESIGN	8	4	900	900	900	2000

DESIGN PARAMETERS

* H.F.L.	RL. +11.50 M
M.D.D.L.	RL. +2.75 M
RIVER BED LEVEL	RL. -1.00 M
FLOOR LEVEL	RL. +13.50 M

IMPORTANT NOTES

*INDICATES WATER LEVEL / HFL R.L. OF 11.50 M @ DISCHARGE Q=81717 CUMEC .

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PROJECT:-

Water Supply Scheme Based on Bhadbhut Barrage for Industries (GIDC) and Rural Areas of Bharuch, Surat & Vadodara Districts

Part 1 (B) : RHS Bharuch (GIDC)

CLIENT:-

GWSSB

TECHNICAL APPROVAL :-

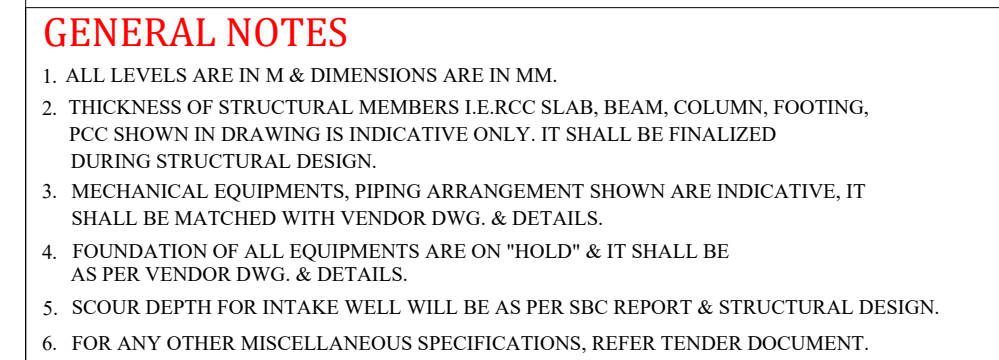
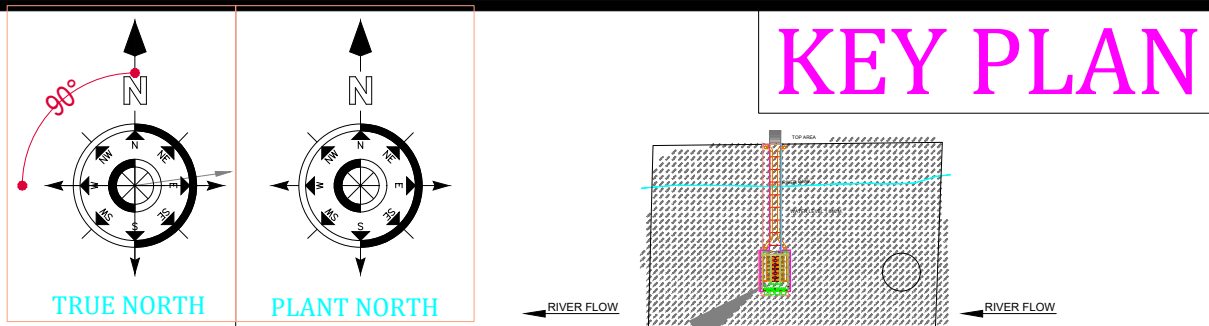
GWSSB

PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

TITLE :-

GAD OF INTAKE WELL & APPROCH BRIDGE_GIDC VADVA_BHARUCH_

DRAWN BY	: G.B	DESIGN BY :-	G.B
CHECKED BY	: SY	PROJ. CODE	DRG. NO.
SCALE	: NTS		REV
DATE	: 24.06.2026		02 OF 04
			R0



ABBREVIATION	
A.G.L.	AVERAGE (NATURAL) GROUND LEVEL
R.B.L.	RIVER BED LEVEL
W.L.	WATER LEVEL
B.L.	BOTTOM BED LEVEL
M.D.D.L.	MINIMUM DRAW DOWN LEVEL
M.W.L.	MINIMUM WATER LEVEL
H.F.L.	HIGH FLOOR LEVEL

PUMP HOUSE PLASTER- INTERNAL WALL 15MM THK. IN SINGLE COAT C.M. 1:4
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ALL WALLS SHALL BE 230 THICK. MASONRY IN C.M. 1:4

SR.NO.	TYPE	SIZE	M.O.C
1.	RS	5000 x 5000	MS ROLLING SHUTTER
2.	W	1200 x 1200	ALUMINUM GLAZED VENTILATORS
3.	V	1200 x 600	ALUMINUM GLAZED VENTILATORS
4.	EX	450 x 450	EXHAUST FAN

VT PUMP (RAW WATER PUMPS)							
CAPACITY (CUM/HR)	HEAD (MTR)	WORKING	STANDBY	MOTORIZED BFV (MM)	DPCV (MM)	DEL.PIPE (MM)	HEADER PIPE (MM)
3725.00	AS PER DESIGN	8	4	900	900	900	2000

DESIGN PARAMETERS	
* H.F.L	RL. +11.50 M
M.D.D.L	RL. +2.75 M
RIVER BED LEVEL	RL. -1.00 M
FLOOR LEVEL	RL. +13.50 M

*INDICATES WATER LEVEL / HFL R.L OF 11.50 M @ DISCHARGE Q=81717 CUMEC .

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Water Supply Scheme Based on Bhadbhut Barrage for Industries (GIDC) and Rural Areas of Bharuch, Surat & Vadodara Districts

Part 1 (B) : RHS Bharuch (GIDC)

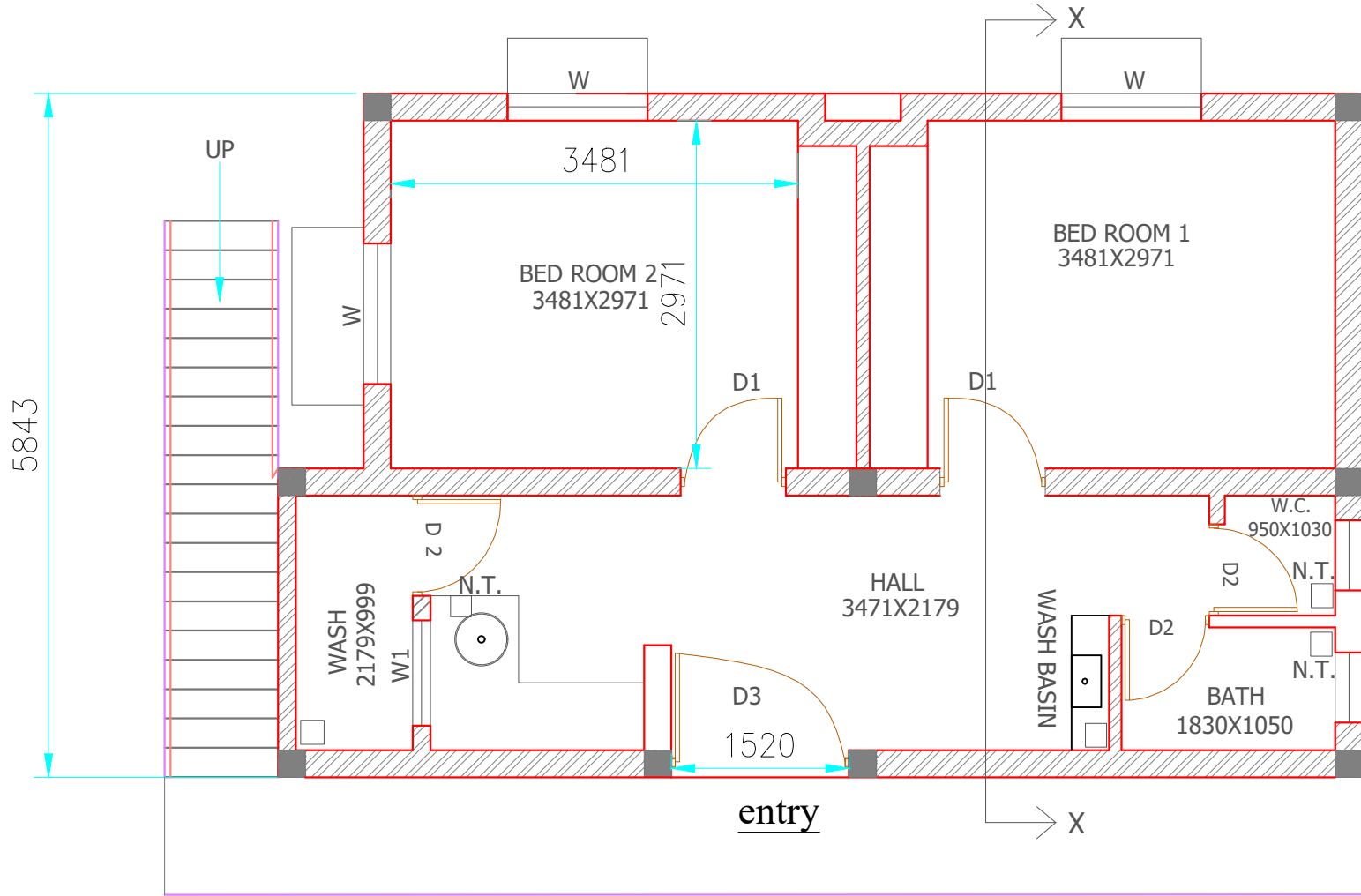
GWSSB

GWSSB

TITLE :-

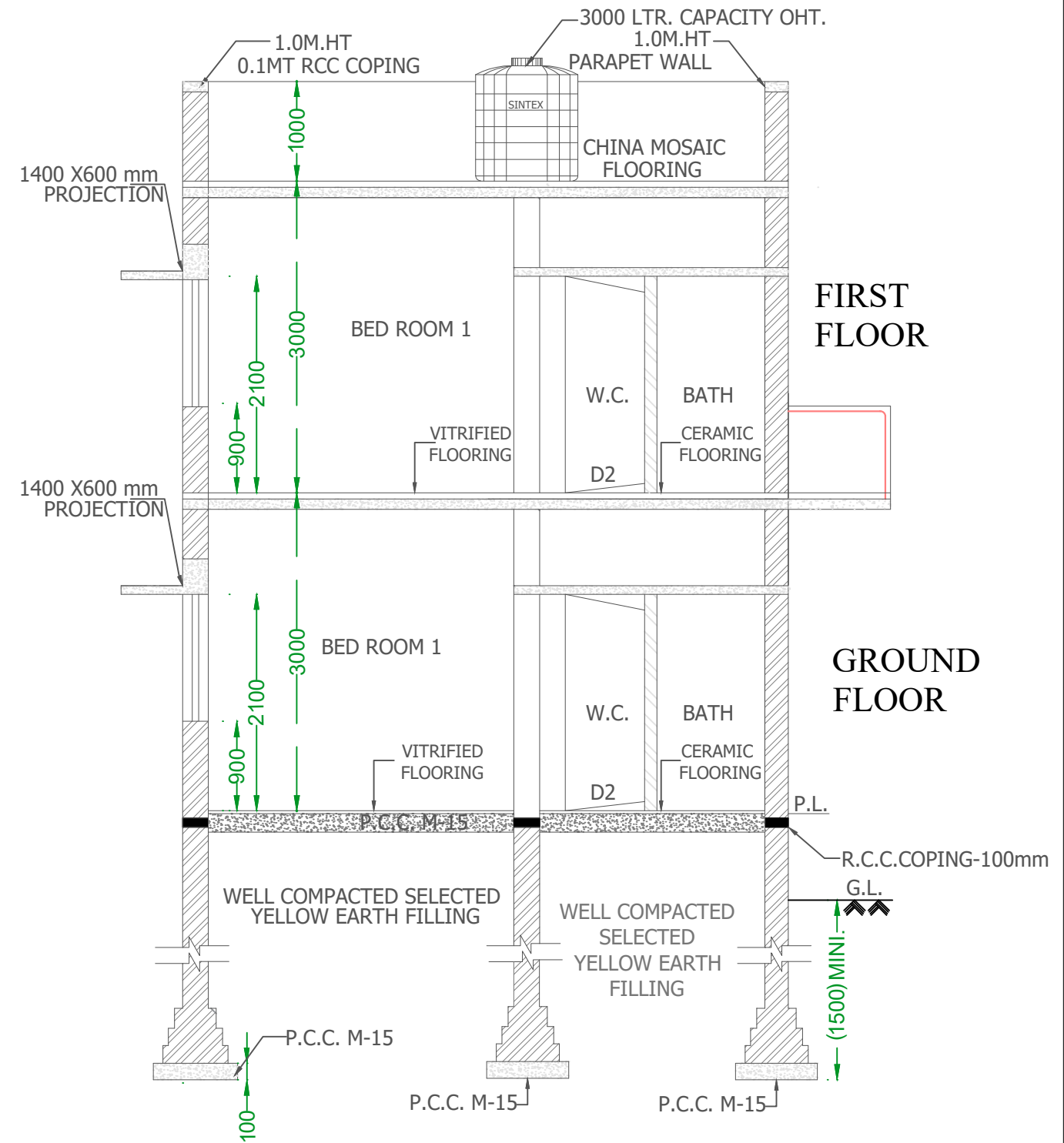
**GAD OF INTAKE WELL & APPROCH
BRIDGE_GIDC VADVA_BHARUCH_**

DRAWN BY : G.B	DESIGN BY : - G.B		
CHECKED BY : SY	PROJ. CODE	DRG. NO.	REV
SCALE : NTS			
DATE : 24.06.2026		03 OF 04	R0



GROUND FLOOR PLAN

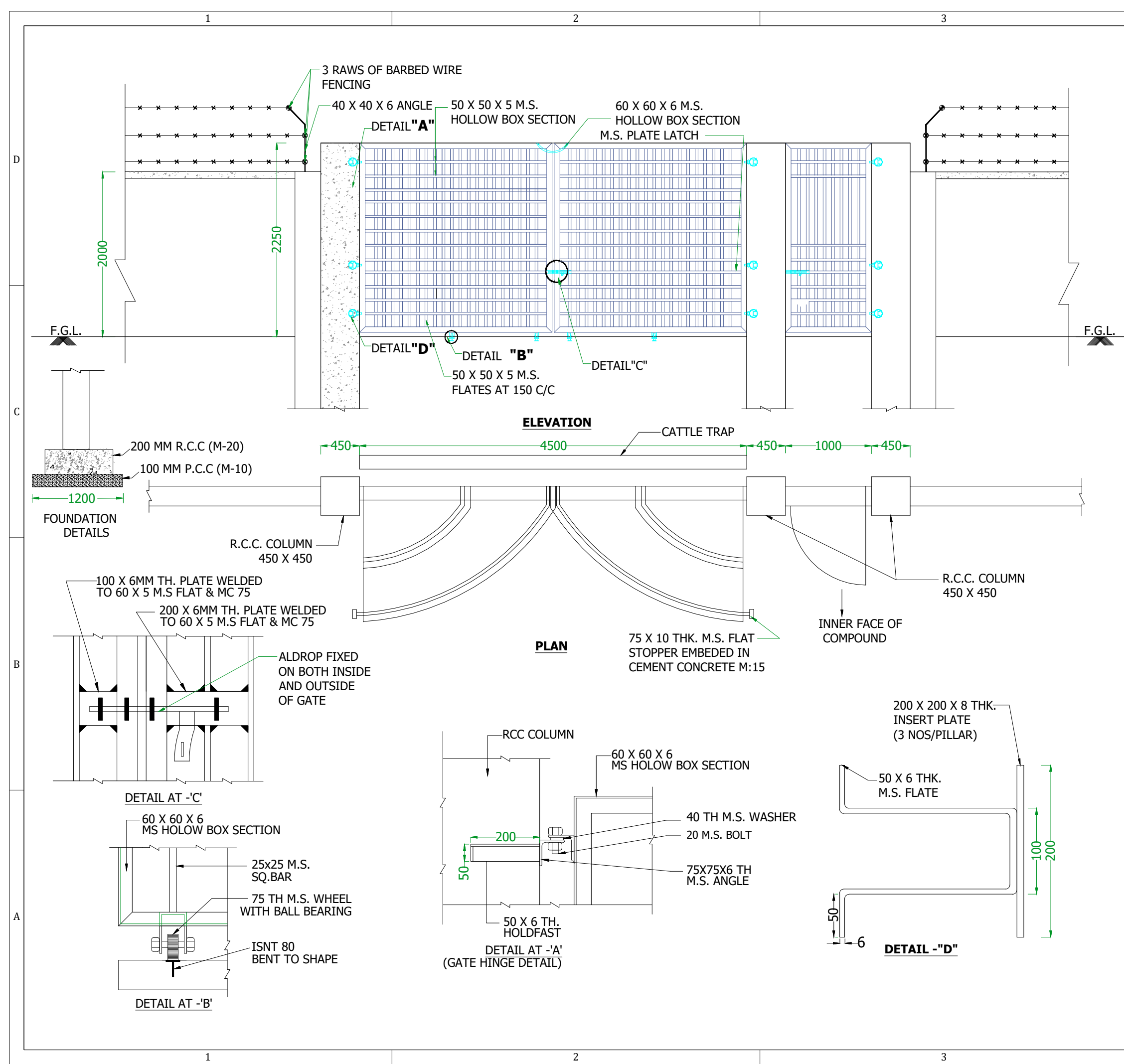
NOTE : THIS DRAWING IS ISSUED SOLELY FOR INDICATIVE PURPOSES AND FOR FACILITATING THE CONTRACTOR'S UNDERSTANDING OF THE SCOPE AND NATURE OF THE WORK. THE DIMENSIONS, LEVELS, LAYOUTS, AND ALL OTHER STRUCTURAL OR ENGINEERING DETAILS SHOWN HEREIN ARE TENTATIVE AND SHALL NOT BE CONSTRUED AS FINAL FOR EXECUTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING, CHECKING, AND SUBMITTING THE FINAL CONSTRUCTION DRAWINGS, INCLUDING BUT NOT LIMITED TO DIMENSIONS, LEVELS, REINFORCEMENT DETAILS, STRUCTURAL DETAILS, FABRICATION DETAILS, AND ALL OTHER RELEVANT ENGINEERING INFORMATION, IN ACCORDANCE WITH THE ITEM SPECIFICATIONS, DATA SHEETS, TECHNICAL SPECIFICATIONS, APPROVED DESIGN CRITERIA, APPLICABLE CODES AND STANDARDS, SITE CONDITIONS, AND GEOTECHNICAL INVESTIGATION REPORTS, FOR REVIEW AND APPROVAL BY THE ENGINEER-IN-CHARGE PRIOR TO EXECUTION. ANY MODIFICATIONS, REVISIONS, OR VARIATIONS REQUIRED DURING DETAILED ENGINEERING, DESIGN DEVELOPMENT, OR EXECUTION SHALL BE INCORPORATED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE EMPLOYER AND SHALL BE CARRIED OUT STRICTLY AS DIRECTED AND APPROVED BY THE ENGINEER-IN-CHARGE.



SECTION X-X

SCHEDULE FOR OPENING					
DOORS			FOR ONE UNIT		
TYPE	SIZE IN MM	SILL	LINTEL	REMARKS	
D1	900 X 2100	-	2100	FRP DOOR	
D2	750 X 2100	-	2100		
D3	1520 X 2100		2100		
WINDOWS			FOR ONE UNIT		
W	1200 X 1200	900	2100	EXTRUDED ALUMINUM WINDOW PARTIALLY FIXED AND PARTIALLY SLIDING	
W1	900 X 1000	900	2100		
V	600 X 600	1500	2100	EXTRUDED ALUMINUM WITH COLOR ANODIZED ALUMINUM FRAME	

PROJECT:- WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS PART 1 (B) : RHS - BHARUCH (GIDC)			
CLIENT:- GWSSB			
TECHNICAL APPROVAL :- GWSSB			
PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.			
TITLE :- LAYOUT OF STAFF QUARTER AT BHARUCH			
DRAWN BY : G.R	DESIGN BY : SY		
CHECKED BY : G.B	PROJ. CODE	DRG. NO.	REV
SCALE : NTS			
DATE : 24.06.2026		01 OF 01	R4

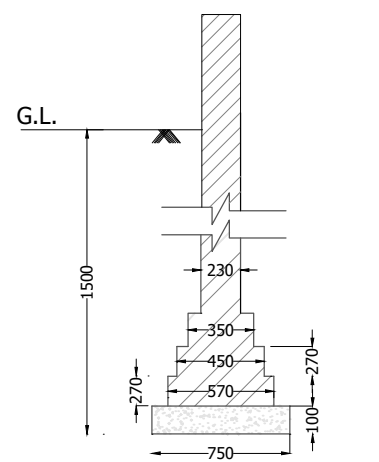
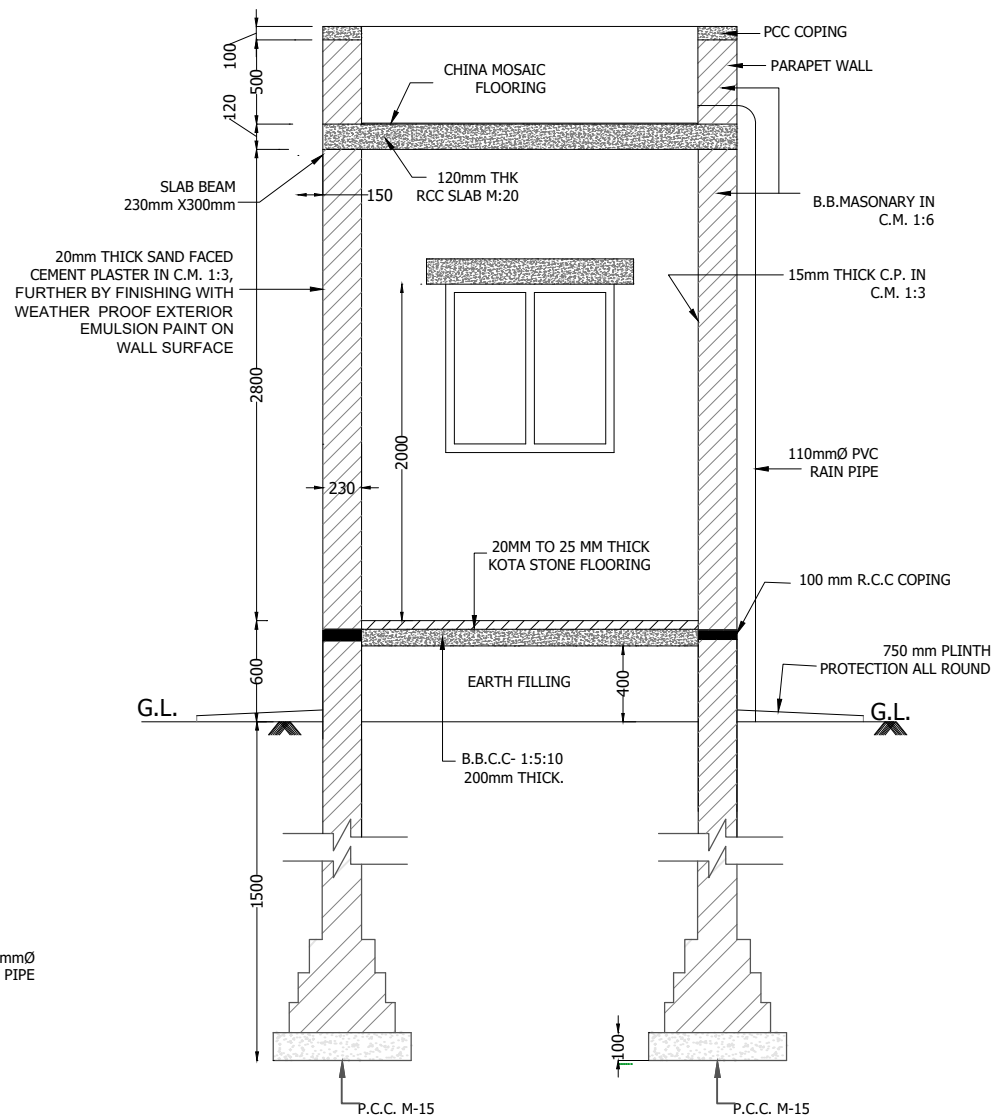
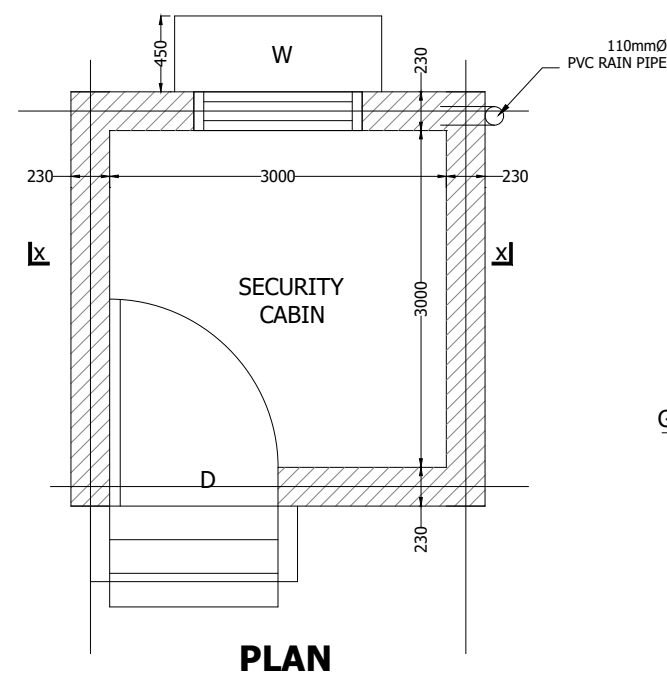
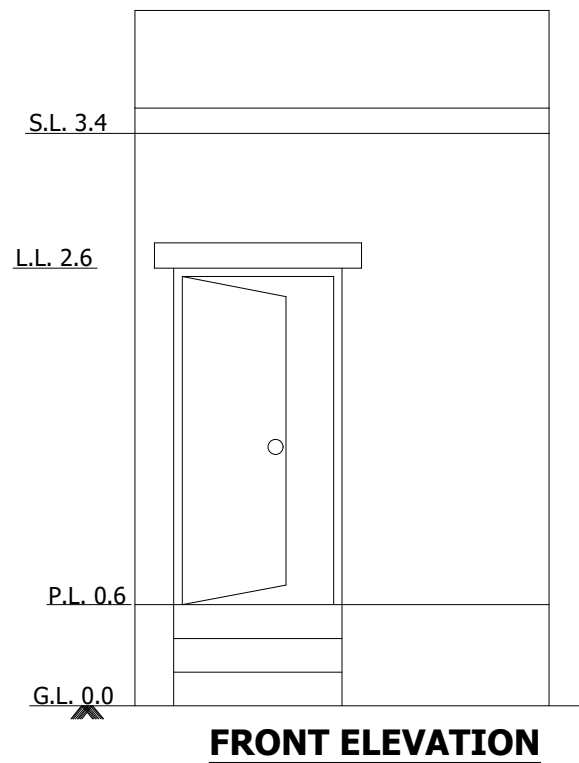


NOTES :-

1. ALL DIMENSIONS ARE IN MM
2. GATE WIDTH SHALL BE ADJUSTED AS PER EQUIPMENT SIZE.
3. APPLYING PRIME COAT OVER NEW STEEL AND OTHER METAL SURFACE.
4. PAINTING TWO COATS (EXCLUDING PRIMING COAT) ON NEW STEEL AND OTHER METAL SURFACES WITH ENAMEL PAINT BRUSHING.
5. DIMENSIONS AND DETAILS SHOWN IN DRAWING ARE MINIMUM AND INDICATIVE ONLY.
6. FOUNDATION DETAILS SHOWN IN DRAWING ARE MINIMUM & INDICATIVE ONLY BIDDER SHALL HAVE TO DESIGN OF PROVIDE TO APPROPRIATELY TO MEET THE SYSTEM REQUIREMENT.
7. DIMENSIONS & DETAILS SHOWN IN DRAWING ARE MINIMUM & INDICATIVE ONLY BIDDER SHALL HAVE TO DESIGN OF PROVIDE TO APPROPRIATELY TO MEET THE SYSTEM REQUIREMENT.

Note : This drawing is issued solely for indicative purposes and for facilitating the Contractor's understanding of the scope and nature of the work. The dimensions, levels, layouts, and all other structural or engineering details shown herein are tentative and shall not be construed as final for execution. The Contractor shall be responsible for preparing, checking, and submitting the final construction drawings, including but not limited to dimensions, levels, reinforcement details, structural details, fabrication details, and all other relevant engineering information, in accordance with the item specifications, data sheets, technical specifications, approved design criteria, applicable codes and standards, site conditions, and geotechnical investigation reports, for review and approval by the Engineer-in-Charge prior to execution. Any modifications, revisions, or variations required during detailed engineering, design development, or execution shall be incorporated by the Contractor at no additional cost to the Employer and shall be carried out strictly as directed and approved by the Engineer-in-Charge.

PROJECT:- WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS			
PART 1 (B) : RHS - BHARUCH (GIDC)			
CLIENT:- GWSSB			
TECHNICAL APPROVAL :- GWSSB			
PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.			
TITLE :- TYPICAL DRAWING OF MAIN GATE & WICKET GATE			
DRAWN BY : GB		DESIGN BY : - GB	
CHECKED B : KP	PROJ. CODE	DRG. NO.	REV
SCALE : NTS	WSS_09	01 OF 01	R4
DATE : 07.05.26			



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NOTES:-

1. ALL DIMENSIONS ARE TO BE READ NOT TO BE MEASURED.
2. ALL DIMENSIONS ARE IN MM.
3. ALL LEVELS ARE FINISHED LEVEL.
4. DETAILS AND SPECIFICATIONS OF ALL RCC WORK SHALL BE CONSIDERED AS PER STRUCTURAL DRAWINGS.
5. ALL DIMENSION S ARE FROM CLEAR R.C.C. AND MASONRY WORK.
6. ALL PARTITION WALLS ARE 115mm THK.
7. DIMENSIONS & DETAILS SHOWN IN DRAWING ARE MINIMUM & INDICATIVE ONLY BIDDER SHALL HAVE TO DESIGN OF PROVIDE TO APPROPRIATELY TO MEET THE SYSTEM REQUIREMENT.
8. DEPTH OF FOUNDATION AS PER SITE REQUIREMENT

PCC : M15 (BELOW THE FOUNDATION AND PLINTH BEAM)

RCC : M20 (COPING, SLAB, LINTEL, AND CHAJJA ETC.)

PLASTER

INTERNAL : 15mm. TH. CEMENT FINISH PLASTER IN C.M. 1:3

EXTERNAL : 20mm THICK SAND FACE CEMENT PLASTER IN CM 1:3

PAINTING

INSIDE ON WALLS & CEILING OIL BOUND DISTEMPER.

OUT SIDE CEMENT PAINT WITH WEATHER PROOF EXTERIOR EMULSION PAINT ON WALL SURFACE
--

BRICK MASONRY IN 1:6 CEMENT MORTAR

FLOORING

- | | |
|-----------------------------------|-------------------------|
| • 20-25mm. TH.POLISHED KOTA STONE | • CHINA MOSAIC FLOORING |
|-----------------------------------|-------------------------|

SCHEDULE FOR OPENING

TYPE	SIZE IN MM	SILL	LINTEL	NOS.	REMARKS
D	1000 X 2000	-	2000	01	
W	1000 X 1000	1000	2000	01	

PROJECT:-

**WATER SUPPLY SCHEME BASED ON
BHADBHUT BARRAGE FOR INDUSTRIES
(GIDC) AND RURAL AREAS OF BHARUCH,
SURAT & VADODARA DISTRICTS
PART 1 (B) : RHS - BHARUCH (GIDC)**

CLIENT:- GWSSB

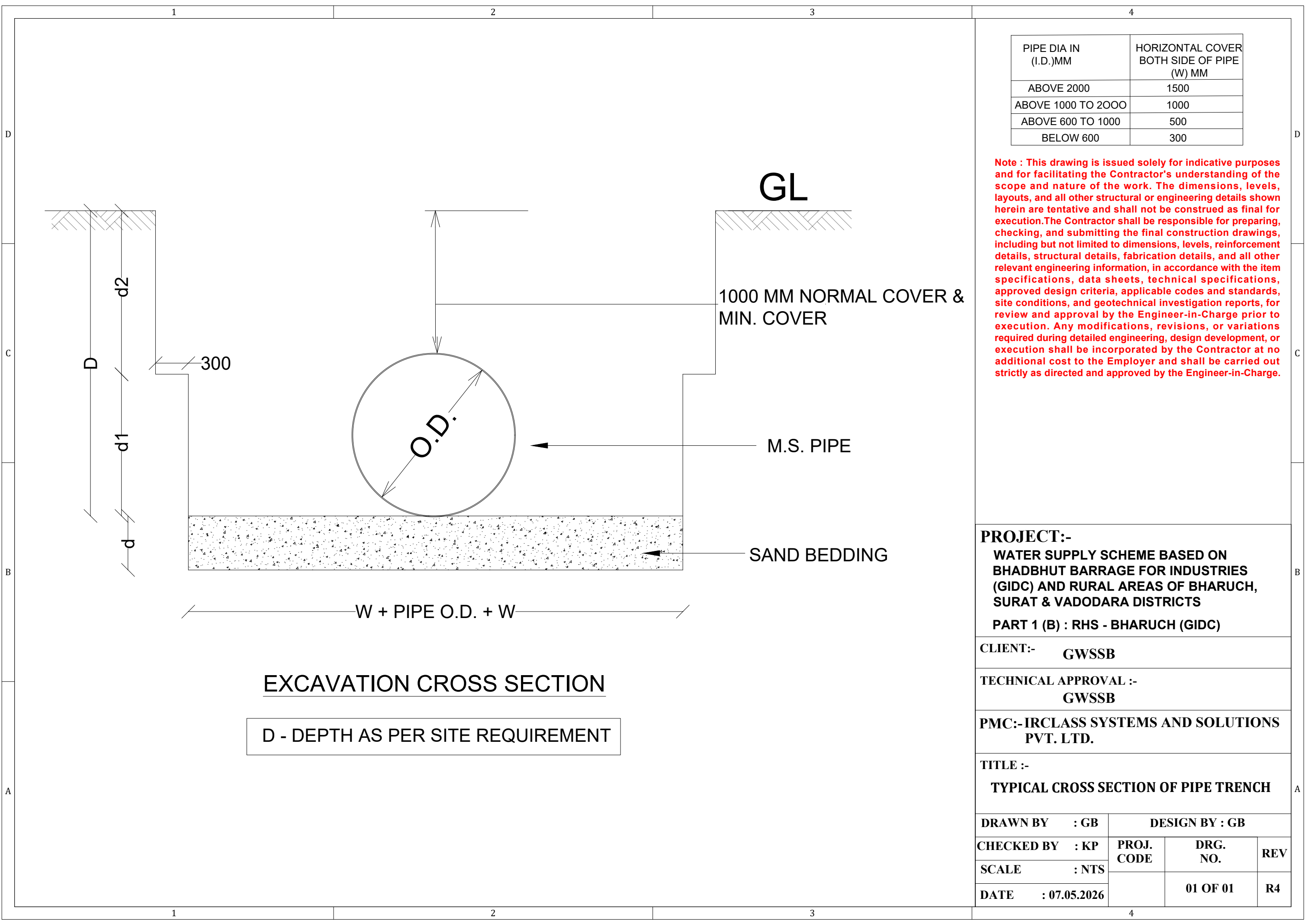
TECHNICAL APPROVAL :-
GWSSB

**PMC:-IRCLASS SYSTEMS AND SOLUTIONS
PVT. LTD.**

TITLE :-

GAD OF SECURITY CABIN AT BHARUCH

DRAWN BY : GB	DESIGN BY : GB		
CHECKED BY : KP	PROJ. CODE	DRG. NO.	REV
SCALE : NTS			
DATE : 07.05.2026	WSS_09	01 OF 01	R4



PIPE DIA IN (I.D.)MM	HORIZONTAL COVER BOTH SIDE OF PIPE (W) MM
ABOVE 2000	1500
ABOVE 1000 TO 2000	1000
ABOVE 600 TO 1000	500
BELOW 600	300

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PROJECT:-
WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS
PART 1 (B) : RHS - BHARUCH (GIDC)

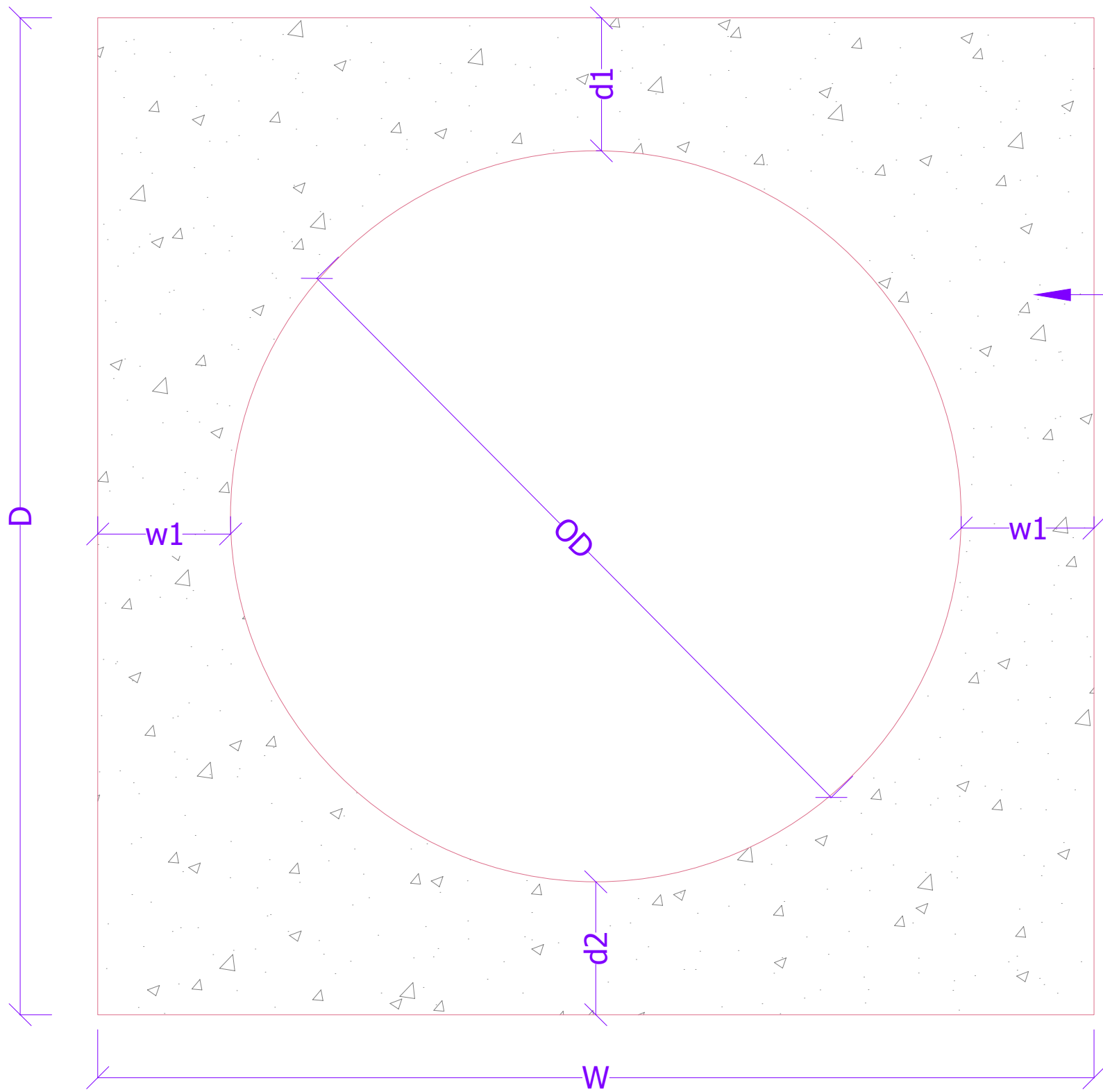
CLIENT:- **GWSSB**

TECHNICAL APPROVAL :-
GWSSB

PMC:-IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

TITLE :-
TYPICAL CROSS SECTION OF PIPE TRENCH

DRAWN BY : GB	DESIGN BY : GB		
CHECKED BY : KP	PROJ. CODE	DRG. NO.	REV
SCALE : NTS		01 OF 01	R4
DATE : 07.05.2026			



TYPICAL SECTION OF ENCASING FOR PIPE

NOTES:-
1. ALL DIMENSIONS ARE IN MM
2. MINIMUM TEMPERATURE REINFORCEMENT OF 10 KG/M² IS TO BE PROVIDED ON ALL SURFACE.
3. DIMENSIONS & DETAILS SHOWN IN DRAWING ARE MINIMUM & INDICATIVE ONLY BIDDER SHALL HAVE TO DESIGN OF PROVIDE TO APPROPRIATELY TO MEET THE SYSTEM REQUIREMENT.

PIPE DIA	THICK.OF ENCASING			
	d1	d2	w1	w1
600 MM DIA	300	300	300	300
500 MM DIA	300	300	300	300
450 MM DIA	300	300	300	300
350 MM DIA	200	200	200	200
300 MM DIA	200	200	200	200
110 MM DIA	100	100	100	100
90 MM DIA	100	100	100	100

PROJECT:-
WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS

PART 1 (B) : RHS - BHARUCH (GIDC)

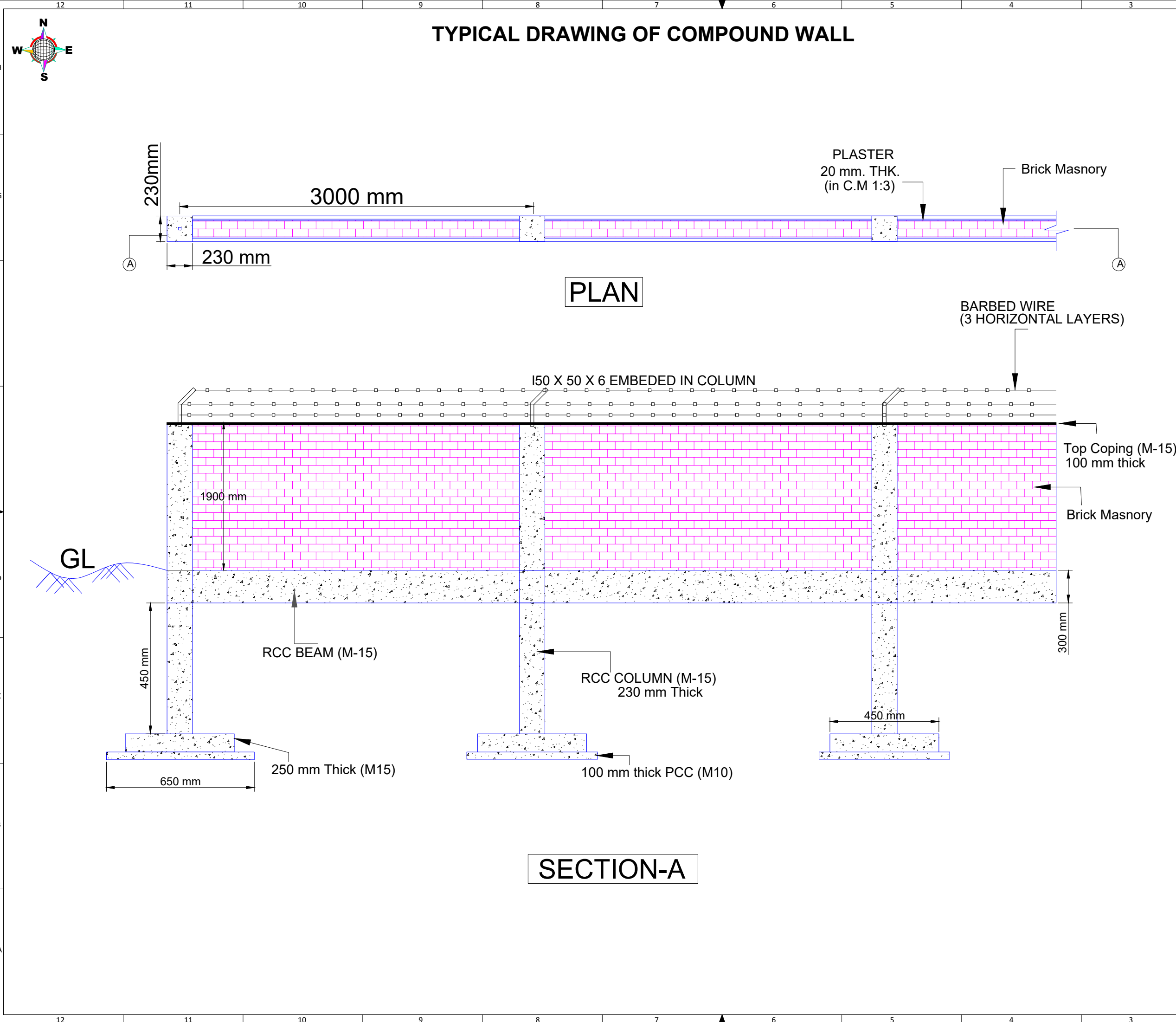
CLIENT:-
GWSSB

TECHNICAL APPROVAL :-
GWSSB

PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

TITLE :-
TYPICAL SECTION OF ENCASING FOR PIPE

DRAWN BY : GB	DESIGN BY : - GB		
CHECKED B : KP	PROJ. CODE	DRG. NO.	REV
SCALE : NTS	WSS_10	01 OF 01	R4
DATE : 07.05.26			



- NOTES:**
1. ALL DIMENSIONS ARE IN MM, UNLESS OTHERWISE STATED.
 2. DO NOT SCALE FROM THE DRAWINGS.
 3. PLAIN CEMENT CONCRETE USED FOR FOUNDATION SHALL BE MINIMUM OF M10 GRADE.
 4. RCC USED FOR PLINTH BEAM FOUNDATION AND COLUMN SHALL BE OF M15 GRADE.
 5. BRICK WORK WITH AERATED LIGHT WEIGHT CONCRETE BLOCK HAVING CRUSHING STRENGTH NOT LESS THEN 35 kg/cm².
 6. WATER ABSORPTION NOT MORE THEN 20% USING 1:4 CEMENT MORTAR.
 7. INTERNAL AND EXTERNAL PLASTERING SHALL BE 20 MM THICK USING 1:3 CEMENT MORTAR.

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PROJECT:-
WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS
PART 1 (B) : RHS - BHARUCH (GIDC)

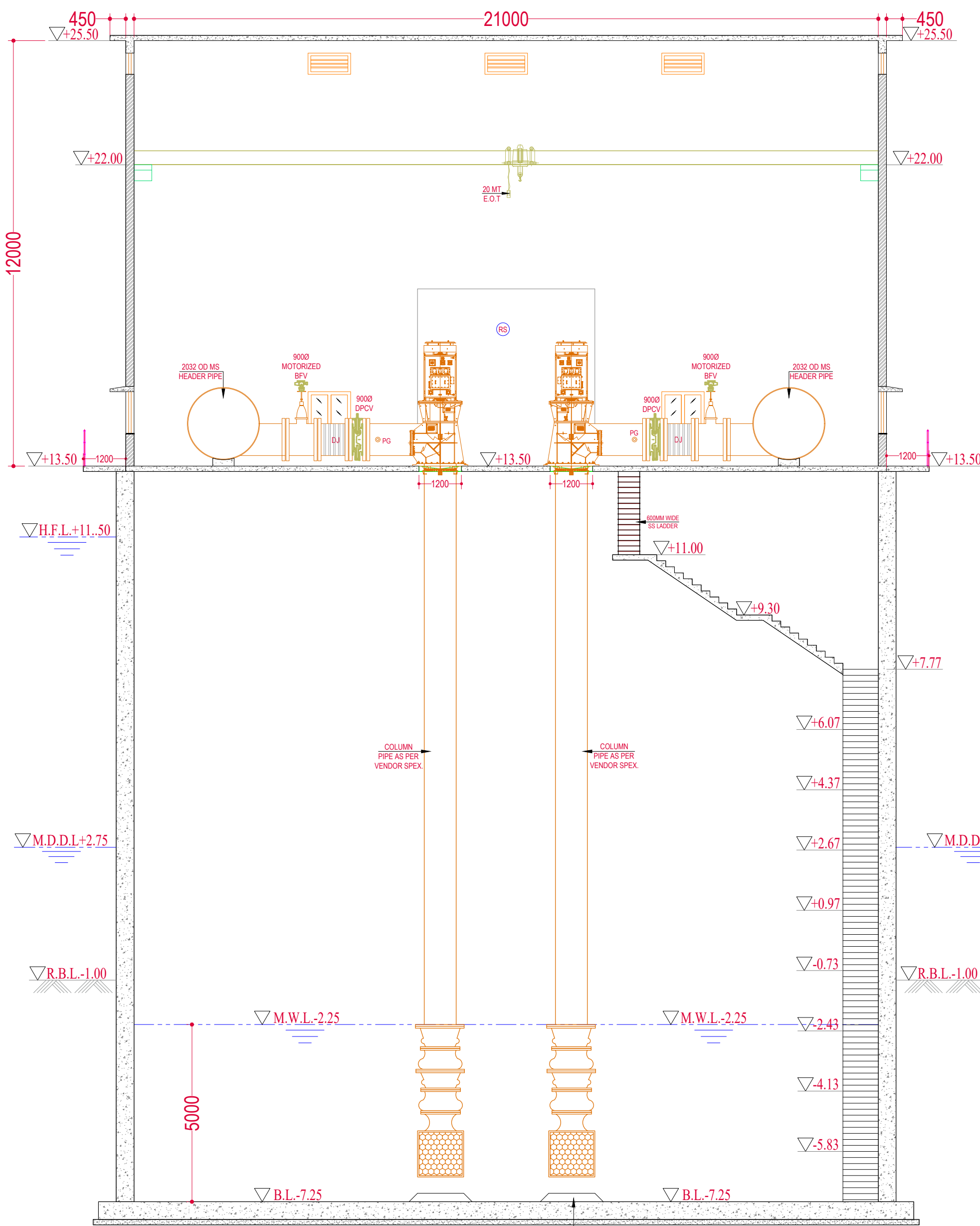
CLIENT:- GWSSB

TECHNICAL APPROVAL :-
GWSSB

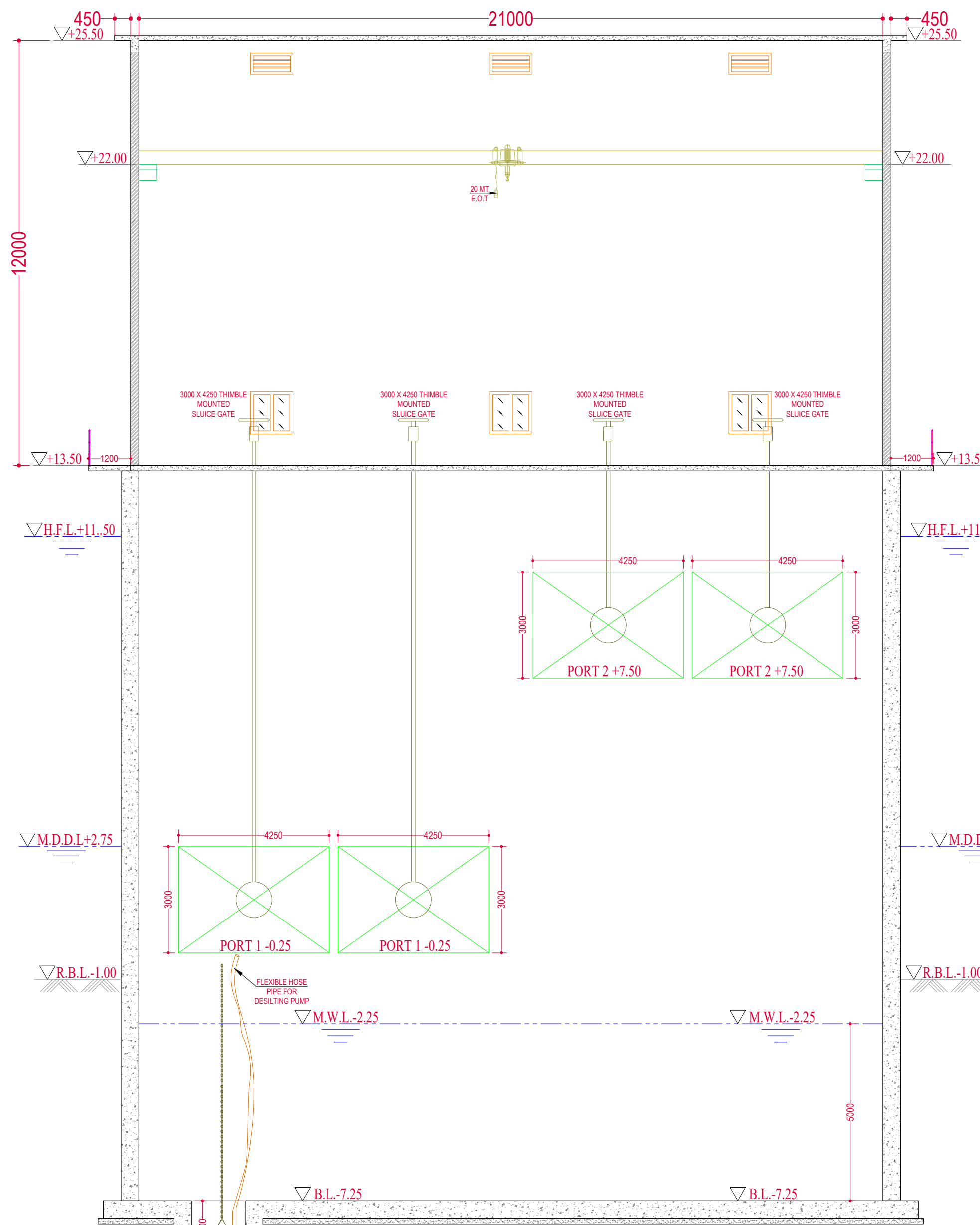
PMC:-IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

TITLE :-
TYPICAL DRAWING OF COMPOUND WALL

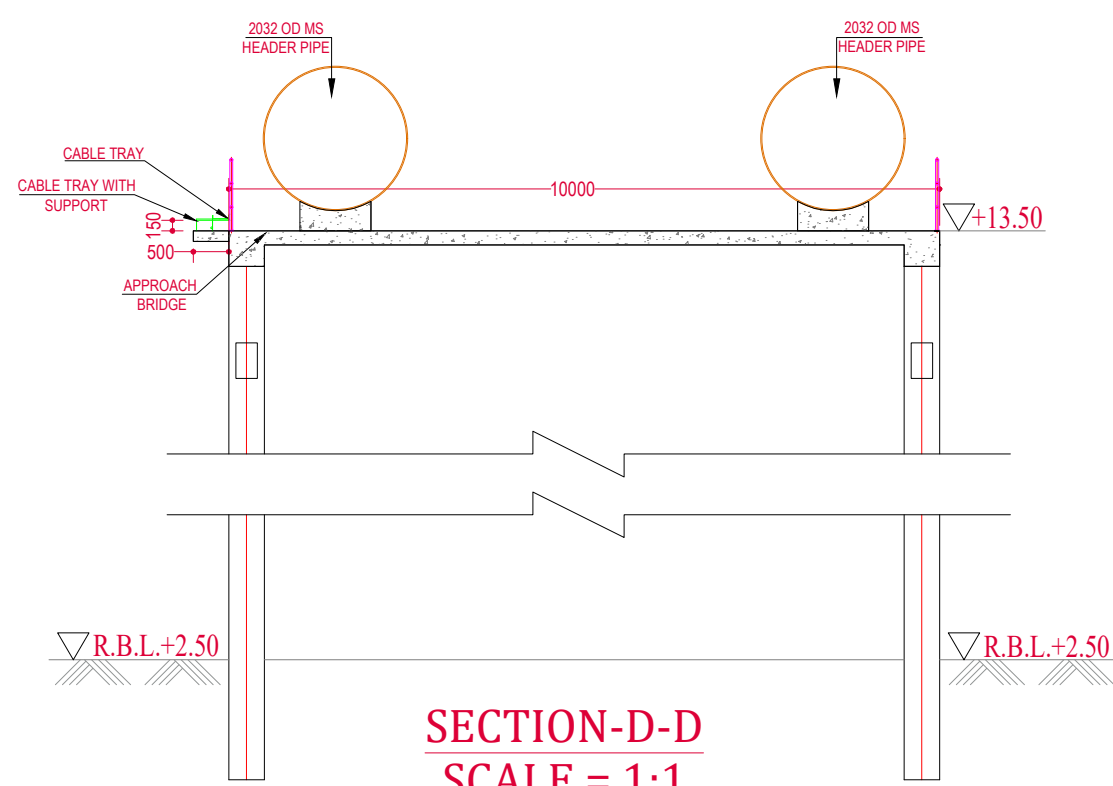
DRAWN BY : GB	DESIGN BY : GB		
CHECKED BY : KP	PROJ. CODE	DRG. NO.	REV
SCALE : NTS			
DATE : 07.05.2026	WSS_09	01 OF 01	R4



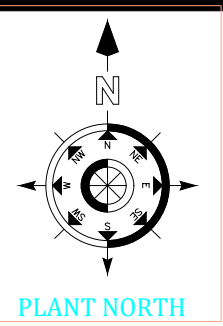
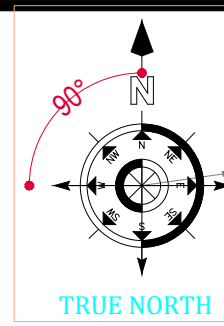
SECTION-B-B
SCALE = 1:1



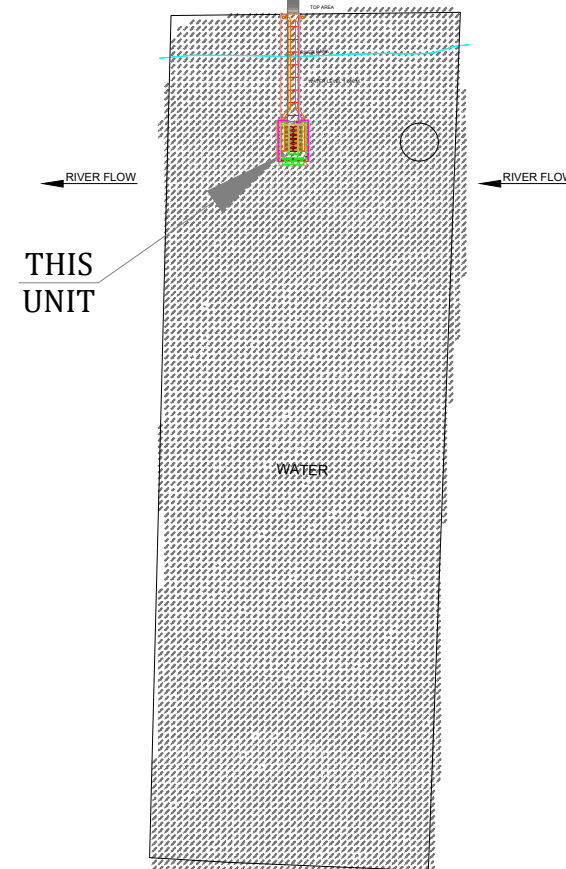
SECTION-C-C
SCALE = 1:1



SECTION-D-D
SCALE = 1:1



KEY PLAN



GENERAL NOTES

1. ALL LEVELS ARE IN M & DIMENSIONS ARE IN MM.
2. THICKNESS OF STRUCTURAL MEMBERS I.E.RCC SLAB, BEAM, COLUMN, FOOTING, PCC SHOWN IN DRAWING IS INDICATIVE ONLY. IT SHALL BE FINALIZED DURING STRUCTURAL DESIGN.
3. MECHANICAL EQUIPMENTS, PIPING ARRANGEMENT SHOWN ARE INDICATIVE, IT SHALL BE MATCHED WITH VENDOR DWG. & DETAILS.
4. FOUNDATION OF ALL EQUIPMENTS ARE ON "HOLD" & IT SHALL BE AS PER VENDOR DWG. & DETAILS.
5. SCOUR DEPTH FOR INTAKE WELL WILL BE AS PER SBC REPORT & STRUCTURAL DESIGN.
6. FOR ANY OTHER MISCELLANEOUS SPECIFICATIONS, REFER TENDER DOCUMENT.

ABBREVIATION

A.G.L.	AVERAGE (NATURAL) GROUND LEVEL
R.B.L.	RIVER BED LEVEL
W.L.	WATER LEVEL
B.L.	BOTTOM/BED LEVEL
M.D.D.L.	MINIMUM DRAW DOWN LEVEL
M.W.L.	MINIMUM WATER LEVEL
H.F.L.	HIGH FLOOR LEVEL

SCHEDULE OF FINISHING

PUMP HOUSE PLASTER:- INTERNAL WALL 15MM THK. IN SINGLE COAT C.M. 1:4
PUMP HOUSE PLASTER:- CEILING 15MM THK. IN SINGLE COAT C.M. 1:4
PUMP HOUSE PLASTER:- INSIDE WELL 20MM THK. W.P. PLASTER IN C.M. 1:2
PUMP HOUSE PLASTER:- OUTSIDE WELL 20MM TH. SAND FACED PLASTER IN 2 COATS, BASE COAT OF 12MM TH. IN C.M. 1:4 & FINISHING COAT OF 8MM TH. & C.M. 1:3
PUMP HOUSE PAINT:- PUMP HOUSE INTERNAL WALLS - DISTEMPER PAINT
PUMP HOUSE PAINT:- PUMP HOUSE OUTER WALLS - SNOWCEM PAINT
FLOOR:- PUMP HOUSE PLINTH LEVELS - KOTA STONE
ALL WALLS SHALL BE 230 THK. MASONRY IN C.M. 1:4

SCHEDULE OF OPENING

SR.NO.	TYPE	SIZE	M.O.C
1.	RS	5000 x 5000	MS ROLLING SHUTTER
2.	W	1200 x 1200	ALUMINUM GLAZED VENTILATORS
3.	V	1200 x 600	ALUMINUM GLAZED VENTILATORS
4.	EX	450 x 450	EXHAUST FAN

VT PUMP (RAW WATER PUMPS)

CAPACITY (CUM/HR)	HEAD (MTR)	WORKING	STANDBY	MOTORIZED BFV (MM)	DPCV (MM)	DEL PIPE (MM)	HEADER PIPE (MM)
3725.00	AS PER DESIGN	8	4	900	900	900	2000

DESIGN PARAMETERS

* H.F.L.	RL. +11.50 M
M.D.D.L.	RL. +2.75 M
RIVER BED LEVEL	RL. -1.00 M
FLOOR LEVEL	RL. +13.50 M

IMPORTANT NOTES

*INDICATES WATER LEVEL / HFL R.L. OF 11.50 M @ DISCHARGE Q=81717 CUMEC .

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PROJECT:-

Water Supply Scheme Based on Bhadbhut Barrage for Industries (GIDC) and Rural Areas of Bharuch, Surat & Vadodara Districts

Part 1 (B) : RHS Bharuch (GIDC)

CLIENT:-

GWSSB

TECHNICAL APPROVAL :-

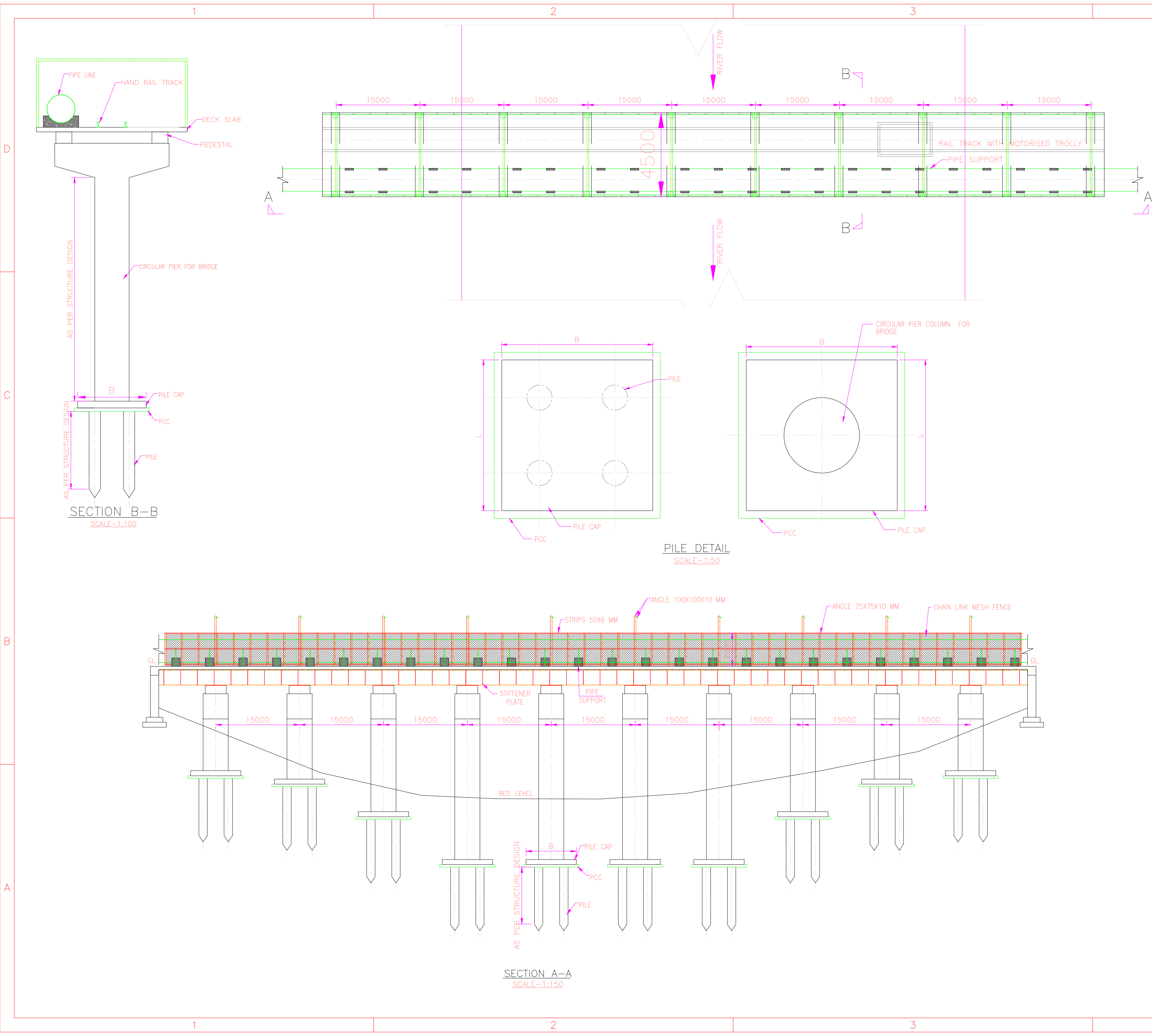
GWSSB

PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

TITLE :-

GAD OF INTAKE WELL & APPROCH BRIDGE_GIDC VADVA_BHARUCH_

DRAWN BY	: G.B	DESIGN BY :-	G.B	
CHECKED BY	: SY	PROJ. CODE	DRG. NO.	REV
SCALE	: NTS			
DATE	: 24.06.2026		04 OF 04	R0



GENERAL NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETERS AND ALL LEVELS ARE IN METRES ONLY, UNLESS OTHERWISE NOTED.
2. ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED. DO NOT SCALE THE DRAWING.
3. THIS DRAWING IS FOR REFERENCE PURPOSE ONLY

Note : This drawing is issued solely for indicative purposes and for facilitating the Contractor's understanding of the scope and nature of the work. The dimensions, levels, layouts, and all other structural or engineering details shown herein are tentative and shall not be construed as final for execution. The Contractor shall be responsible for preparing, checking, and submitting the final construction drawings, including but not limited to dimensions, levels, reinforcement details, structural details, fabrication details, and all other relevant engineering information, in accordance with the item specifications, data sheets, technical specifications, approved design criteria, applicable codes and standards, site conditions, and geotechnical investigation reports, for review and approval by the Engineer-in-Charge prior to execution. Any modifications, revisions, or variations required during detailed engineering, design development, or execution shall be incorporated by the Contractor at no additional cost to the Employer and shall be carried out strictly as directed and approved by the Engineer-in-Charge.

PROJECT:-

WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS

PART 1 (B) : RHS - BHARUCH (GIDC)

CLIENT:-

GWSSB

TECHNICAL APPROVAL :-

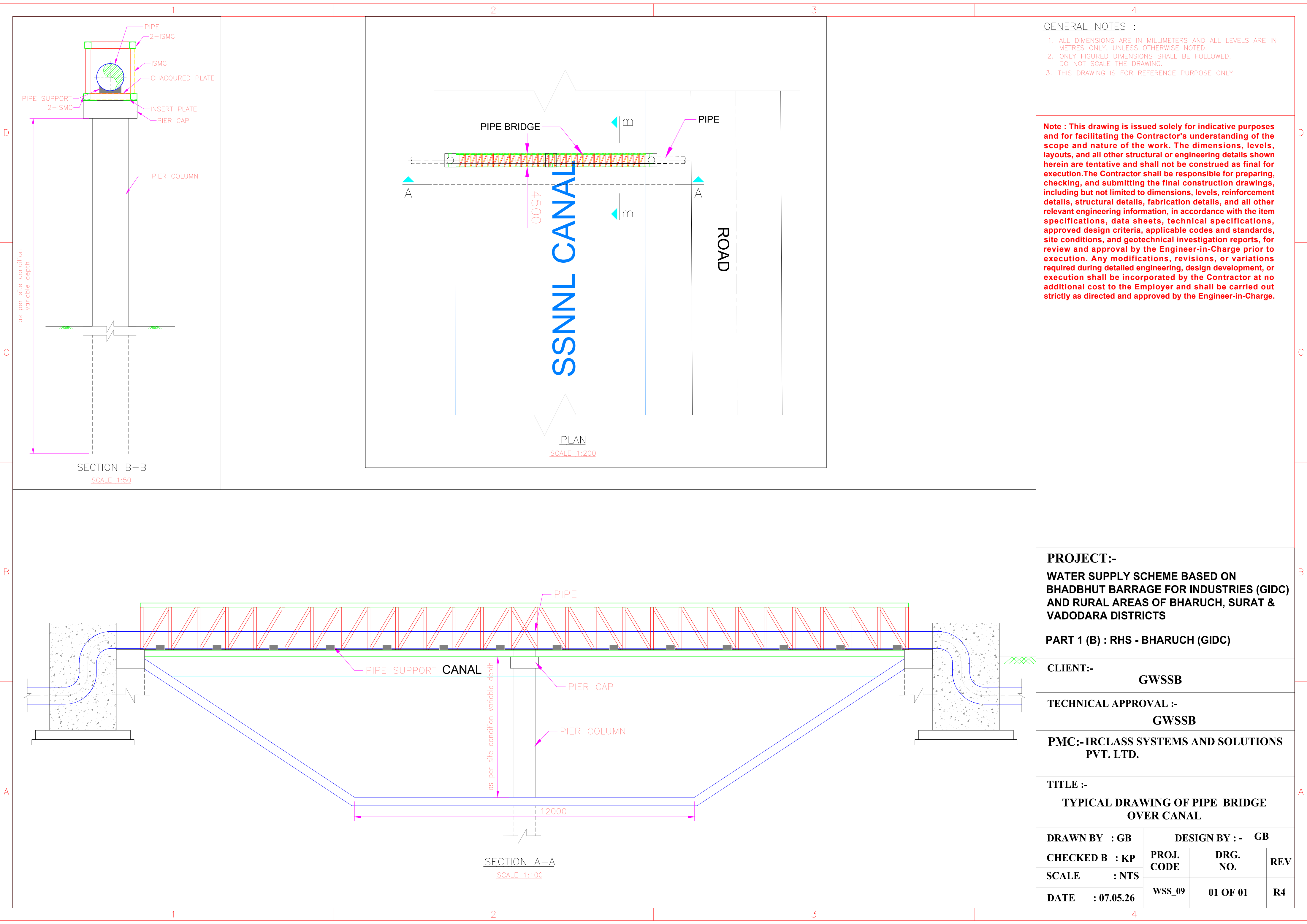
GWSSB

PMC:-IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

TITLE :-

TYPICAL DRAWING OF PIPE BRIDGE OVER RIVER

DRAWN BY : GB	DESIGN BY :- GB		
CHECKED B : KP	PROJ. CODE	DRG. NO.	REV
SCALE : NTS	WSS_09	01 OF 01	R4
DATE : 07.05.26			



- GENERAL NOTES :
1. ALL DIMENSIONS ARE IN MILLIMETERS AND ALL LEVELS ARE IN METRES ONLY, UNLESS OTHERWISE NOTED.
 2. ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED. DO NOT SCALE THE DRAWING.
 3. THIS DRAWING IS FOR REFERENCE PURPOSE ONLY.

Note : This drawing is issued solely for indicative purposes and for facilitating the Contractor's understanding of the scope and nature of the work. The dimensions, levels, layouts, and all other structural or engineering details shown herein are tentative and shall not be construed as final for execution. The Contractor shall be responsible for preparing, checking, and submitting the final construction drawings, including but not limited to dimensions, levels, reinforcement details, structural details, fabrication details, and all other relevant engineering information, in accordance with the item specifications, data sheets, technical specifications, approved design criteria, applicable codes and standards, site conditions, and geotechnical investigation reports, for review and approval by the Engineer-in-Charge prior to execution. Any modifications, revisions, or variations required during detailed engineering, design development, or execution shall be incorporated by the Contractor at no additional cost to the Employer and shall be carried out strictly as directed and approved by the Engineer-in-Charge.

PROJECT:-
WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS

PART 1 (B) : RHS - BHARUCH (GIDC)

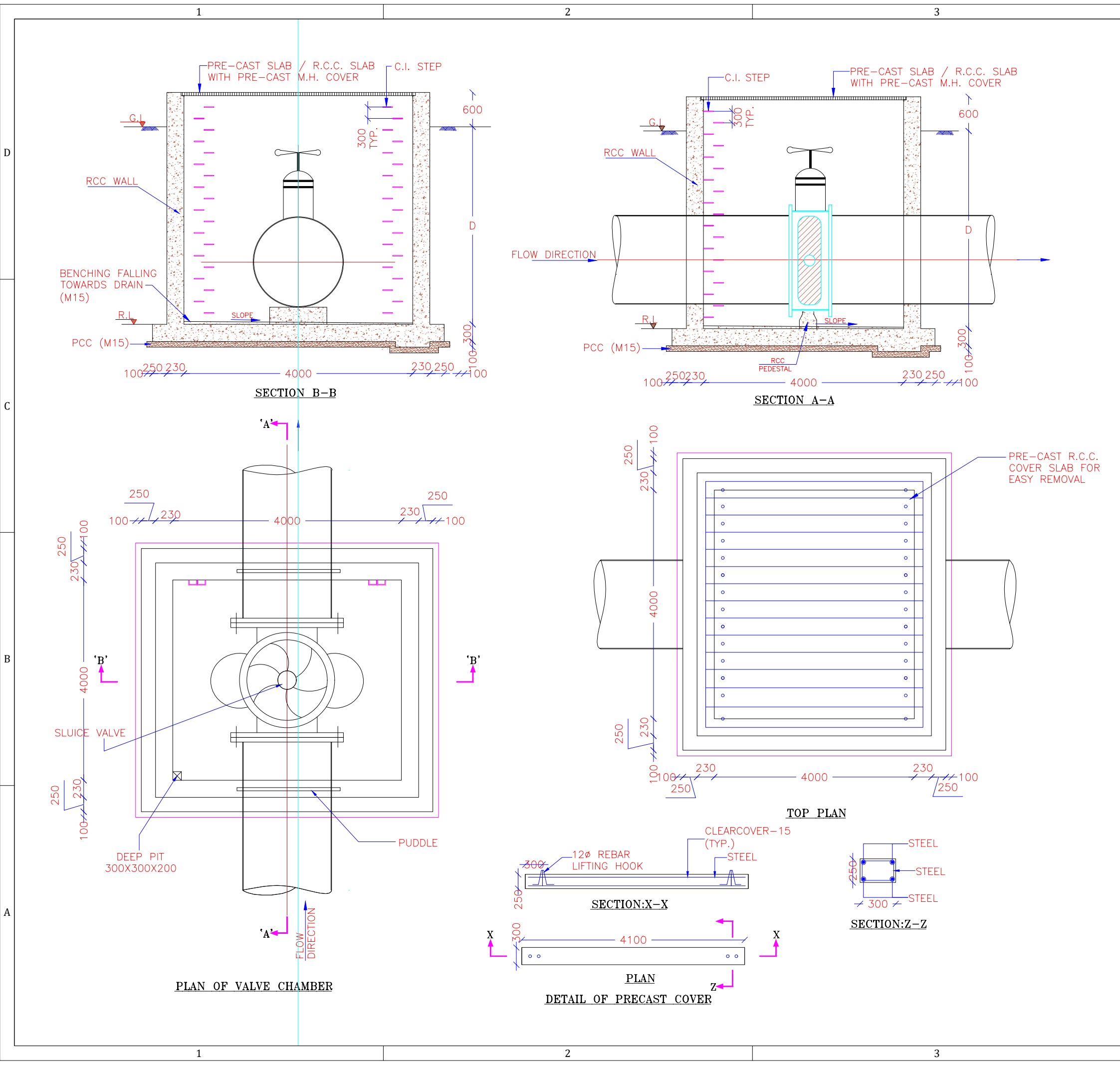
CLIENT:-
GWSSB

TECHNICAL APPROVAL :-
GWSSB

PMC:-IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

TITLE :-
TYPICAL DRAWING OF PIPE BRIDGE OVER CANAL

DRAWN BY : GB	DESIGN BY :- GB		
CHECKED B : KP	PROJ. CODE	DRG. NO.	REV
SCALE : NTS			
DATE : 07.05.26	WSS_09	01 OF 01	R4



Note : This drawing is issued solely for indicative purposes and for facilitating the Contractor's understanding of the scope and nature of the work. The dimensions, levels, layouts, and all other structural or engineering details shown herein are tentative and shall not be construed as final for execution. The Contractor shall be responsible for preparing, checking, and submitting the final construction drawings, including but not limited to dimensions, levels, reinforcement details, structural details, fabrication details, and all other relevant engineering information, in accordance with the item specifications, data sheets, technical specifications, approved design criteria, applicable codes and standards, site conditions, and geotechnical investigation reports, for review and approval by the Engineer-in-Charge prior to execution. Any modifications, revisions, or variations required during detailed engineering, design development, or execution shall be incorporated by the Contractor at no additional cost to the Employer and shall be carried out strictly as directed and approved by the Engineer-in-Charge.

PROJECT:-
WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS
PART 1 (A) : RHS - BHARUCH (GWSSB)

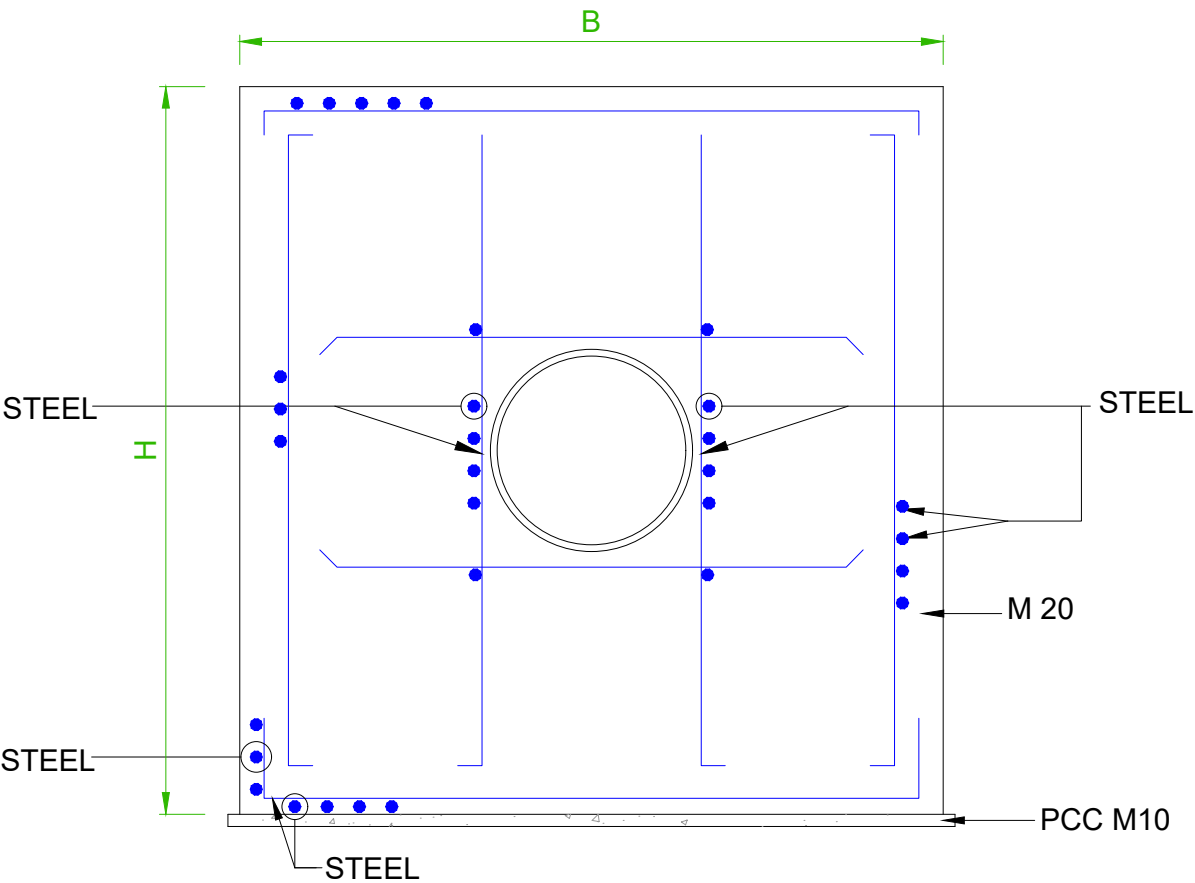
CLIENT:- GWSSB

TECHNICAL APPROVAL :-
GWSSB

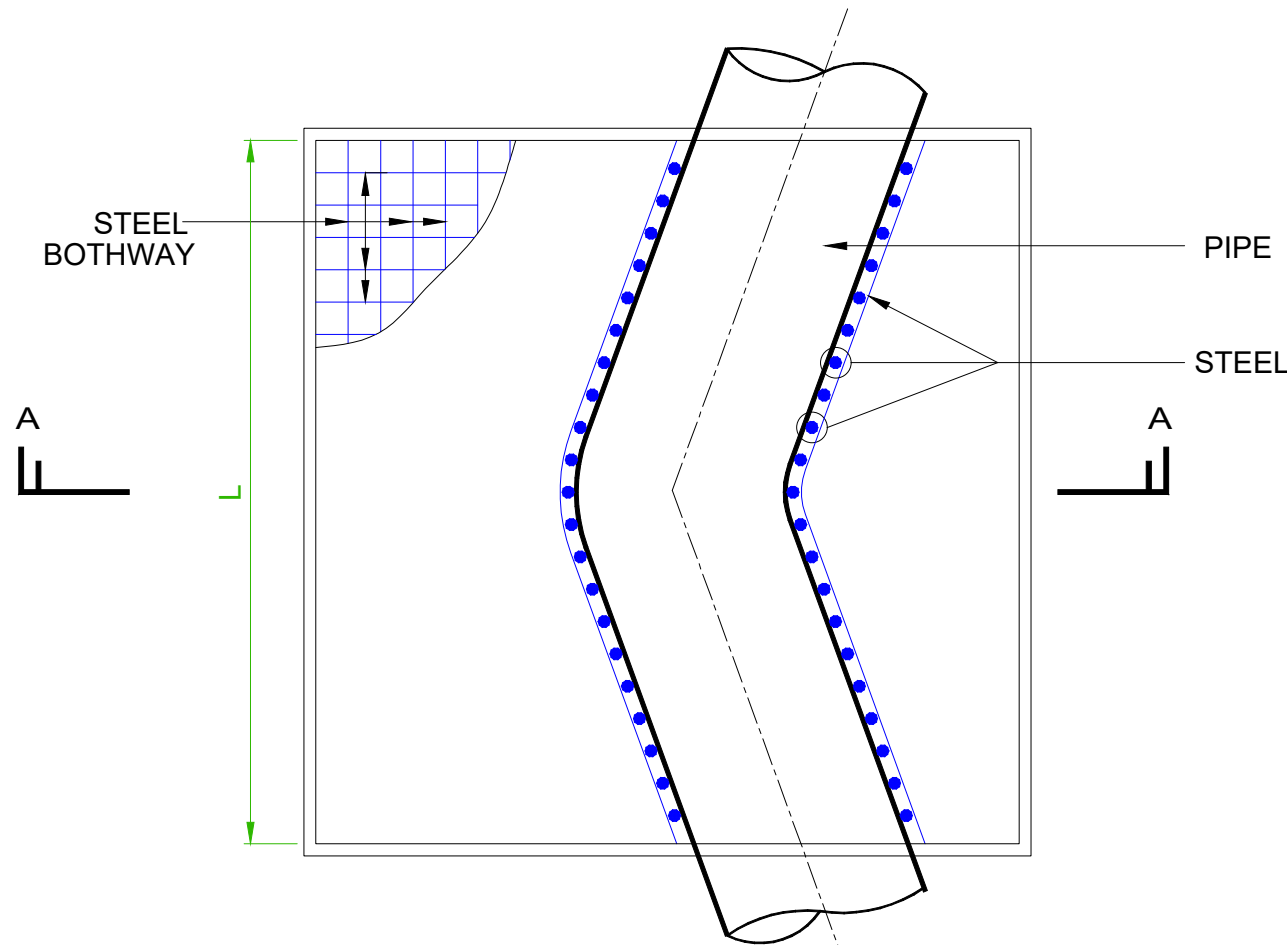
PMC:-IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

TITLE :-
TYPICAL DRAWING OF SLUICE VALVE CHAMBER (4.0 X 4.0 X 3.5 M)

DRAWN BY : GB	DESIGN BY : GB		
CHECKED BY : KP	PROJ. CODE	DRG. NO.	REV
SCALE : NTS			
DATE : 07.05.2026	WSS_09	01 OF 01	R4



SECTION A-A



PLAN

- NOTE:-
- 1. THE THRUST BLOCK & REINFORCEMENT SIZE AS PER DESIGN REQUIREMENT
 - 2. DIMENSIONS & DETAILS SHOWN IN DRAWING ARE MINIMUM & INDICATIVE ONLY. BIDDER SHALL HAVE TO DESIGN AND PROVIDE APPROPRIATELY TO MEET THE SYSTEM REQUIREMENT.
 - 3. H, B & L AS PER DESIGN REQUIREMENT.
 - 4. STEEL DETAILING AS PER DETAIL DESIGN.
 - 5. PIPE COVERED WITH R.C.C. WORK.

Note : This drawing is issued solely for indicative purposes and for facilitating the Contractor's understanding of the scope and nature of the work. The dimensions, levels, layouts, and all other structural or engineering details shown herein are tentative and shall not be construed as final for execution. The Contractor shall be responsible for preparing, checking, and submitting the final construction drawings, including but not limited to dimensions, levels, reinforcement details, structural details, fabrication details, and all other relevant engineering information, in accordance with the item specifications, data sheets, technical specifications, approved design criteria, applicable codes and standards, site conditions, and geotechnical investigation reports, for review and approval by the Engineer-in-Charge prior to execution. Any modifications, revisions, or variations required during detailed engineering, design development, or execution shall be incorporated by the Contractor at no additional cost to the Employer and shall be carried out strictly as directed and approved by the Engineer-in-Charge.

PROJECT:-
WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS

PART 1 (B) : RHS - BHARUCH (GIDC)

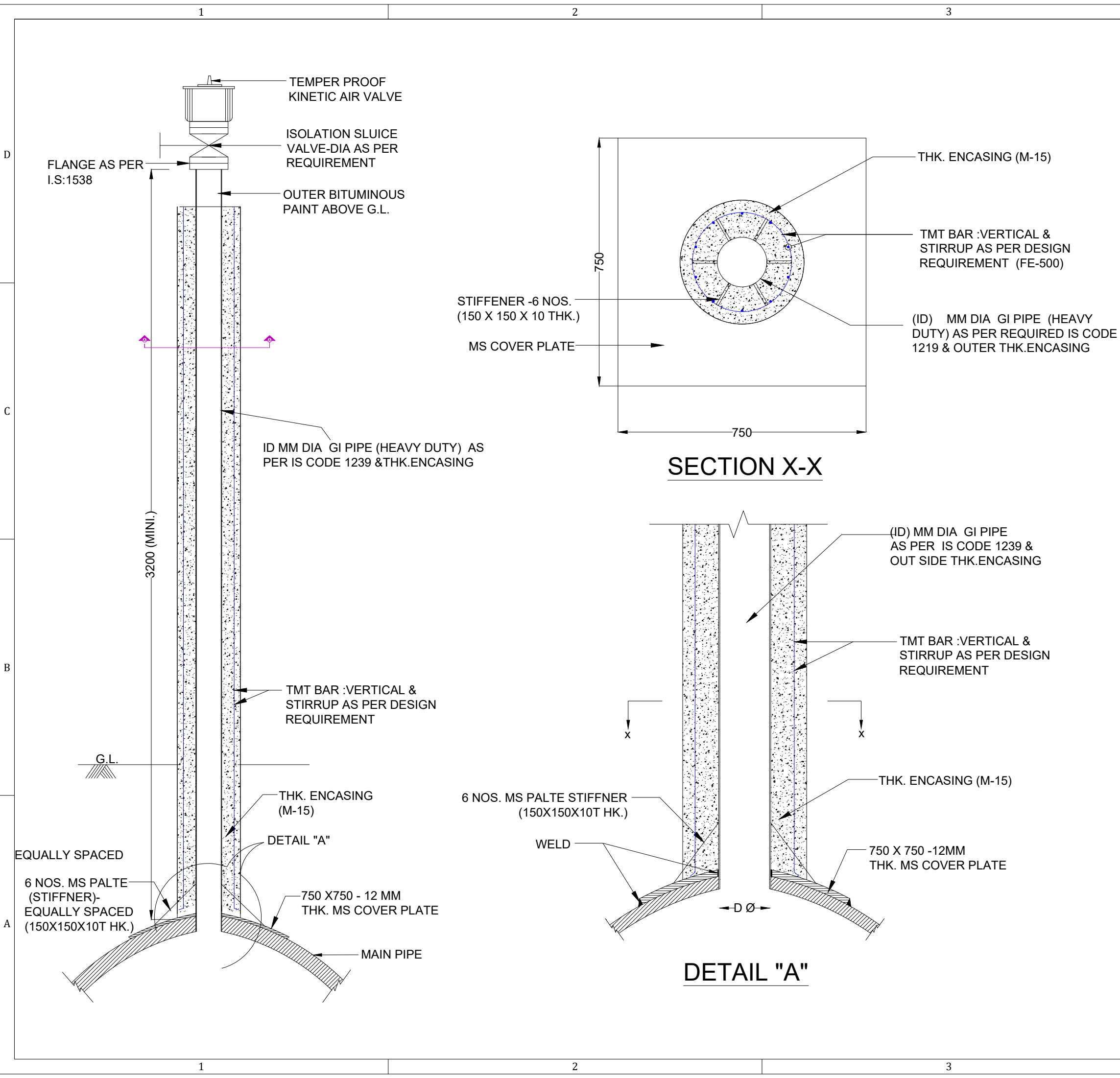
CLIENT:-
GWSSB

TECHNICAL APPROVAL :-
GWSSB

PMC:-IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.

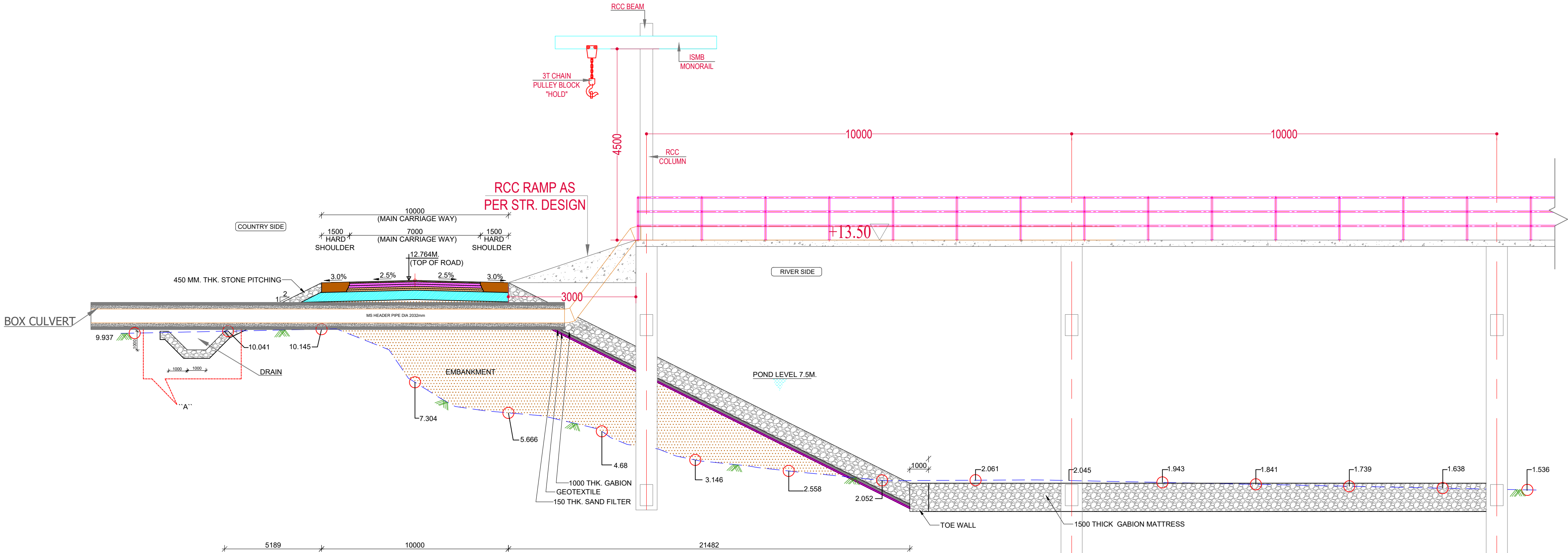
TITLE :-
TYPICAL DETAILS OF SINGLE PIPE THRUST BLOCK IN R.C.C.

DRAWN BY : GB	DESIGN BY : - GB		
CHECKED B : KP	PROJ. CODE	DRG. NO.	REV
SCALE : NTS			
DATE : 07.05.26	WSS_09	01 OF 01	R4

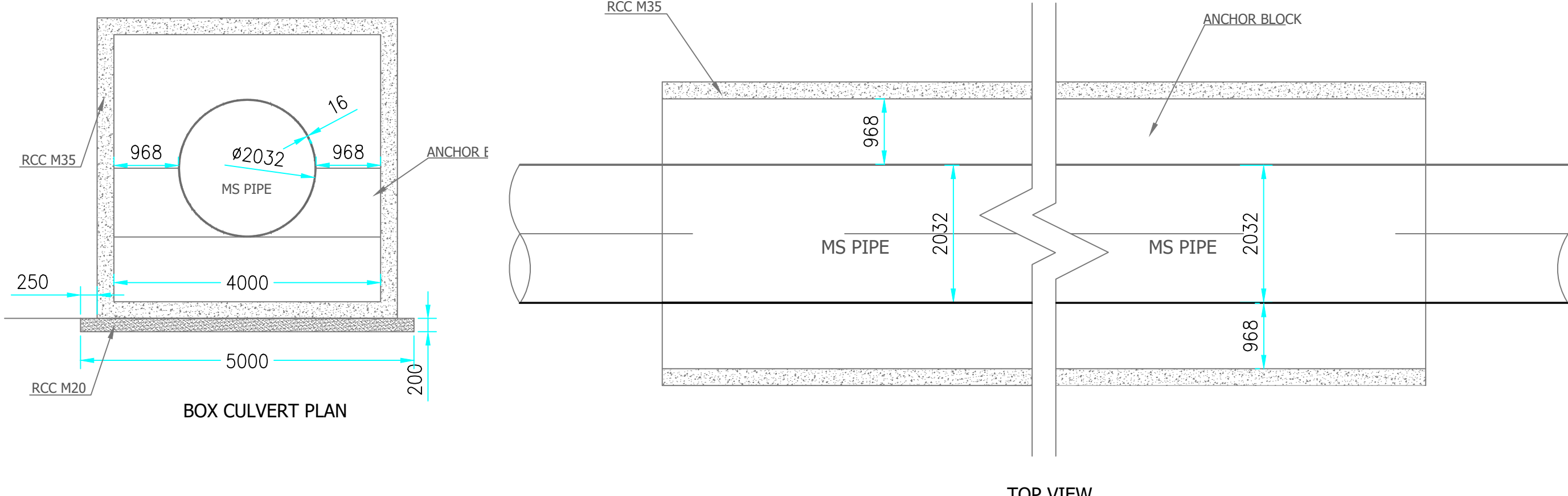


4			
NOTE:- 1. ALL DIMENSION ARE IN MM UNLESS MENTIONED. 2. THE BARE PART OF THE COVER PLATE AND OUTER SIDE OF RISER PIPE UP G.L. AND CUTOUT PORTION SHALL BE COATED WITH 3LPE OR 1000 MICRON HIGH BUILD EPOXY PAINT. 3. THE GRADE OF CONCRETE FOR ENCASING IS M-15. 4. MINIMUM AIR VENT PIPE LENGTH SHALL BE 5M, HOWEVER AIR VENT PIPE SHALL BE MINIMUM 3M ABOVE G.L. 5. DIMENSIONS & DETAILS SHOWN IN DRAWING ARE MINIMUM & INDICATIVE ONLY BIDDER SHALL HAVE TO DESIGN OF PROVIDE TO APPROPRIATELY TO MEET THE SYSTEM REQUIREMENT.			
VALVE DIA		OUTER THICK.OF ENCASING	
50 MM DIA		100 MM DIA	
80 MM DIA		100 MM DIA	
100 MM DIA		150 MM DIA	
150 MM DIA		150 MM DIA	
<p>Note : This drawing is issued solely for indicative purposes and for facilitating the Contractor's understanding of the scope and nature of the work. The dimensions, levels, layouts, and all other structural or engineering details shown herein are tentative and shall not be construed as final for execution. The Contractor shall be responsible for preparing, checking, and submitting the final construction drawings, including but not limited to dimensions, levels, reinforcement details, structural details, fabrication details, and all other relevant engineering information, in accordance with the item specifications, data sheets, technical specifications, approved design criteria, applicable codes and standards, site conditions, and geotechnical investigation reports, for review and approval by the Engineer-in-Charge prior to execution. Any modifications, revisions, or variations required during detailed engineering, design development, or execution shall be incorporated by the Contractor at no additional cost to the Employer and shall be carried out strictly as directed and approved by the Engineer-in-Charge .</p>			
<p>PROJECT:- WATER SUPPLY SCHEME BASED ON BHADBHUT BARRAGE FOR INDUSTRIES (GIDC) AND RURAL AREAS OF BHARUCH, SURAT & VADODARA DISTRICTS PART 1 (B) : RHS - BHARUCH (GIDC)</p>			
<p>CLIENT:- GWSSB</p>			
<p>TECHNICAL APPROVAL :- GWSSB</p>			
<p>PMC:- IRCLASS SYSTEMS AND SOLUTIONS PVT. LTD.</p>			
<p>TITLE :- TYPICAL DRAWING OF AIR VALVE ARRANGEMENT</p>			
DRAWN BY : GB		DESIGN BY :- GB	
CHECKED B : KP		PROJ. CODE	DRG. NO.
SCALE : NTS			
DATE : 07.05.26		WSS_09	01 OF 01
			R4
4			

**TYPICAL CROSS-SECTION OF BOX CULVERT CARRYING MS HEADER PIPE
CROSSING THROUGH RIGHT BANK EMBANKMENT**



TYPICAL SECTION OF RIGHT SIDE FLOOD PROTECTION EMBANKMENT AT CH: 8+040 KM



NOTE :
1. ALL DIMENTION ARE IN MM
2. ALL LEVELS ARE IN METER

NOTE : THIS DRAWING IS ISSUED SOLELY FOR INDICATIVE PURPOSES AND FOR FACILITATING THE CONTRACTOR'S UNDERSTANDING OF THE SCOPE AND NATURE OF THE WORK, THE DIMENSIONS, LEVELS, LAYOUTS, AND ALL OTHER STRUCTURAL OR ENGINEERING DETAILS SHOWN HEREIN ARE TENTATIVE AND SHALL NOT BE CONSTRUED AS FINAL. FOR EXECUTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING, CHECKING, AND SUBMITTING THE FINAL CONSTRUCTION DRAWINGS, INCLUDING BUT NOT LIMITED TO DIMENSIONS, LEVELS, REINFORCEMENT DETAILS, STRUCTURAL DETAILS, FABRICATION DETAILS, AND ALL OTHER RELEVANT ENGINEERING INFORMATION, IN ACCORDANCE WITH THE ITEM SPECIFICATIONS, DATA SHEETS, TECHNICAL SPECIFICATIONS, APPROVED DESIGN CRITERIA, APPLICABLE CODES AND STANDARDS, SITE CONDITIONS, AND GEOTECHNICAL INVESTIGATION REPORTS, FOR REVIEW AND APPROVAL BY THE ENGINEER-IN-CHARGE PRIOR TO EXECUTION. ANY MODIFICATIONS, REVISIONS, OR VARIATIONS REQUIRED DURING DETAILED ENGINEERING, DESIGN DEVELOPMENT, OR EXECUTION SHALL BE INCORPORATED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE EMPLOYER AND SHALL BE CARRIED OUT STRICTLY AS DIRECTED AND APPROVED BY THE ENGINEER-IN-CHARGE.

PROJECT:-
WATER SUPPLY SCHEME BASED ON
BHADBHUT BARRAGE FOR INDUSTRIES
(GIDC) AND RURAL AREAS OF BHARUCH,
SURAT & VADODARA DISTRICTS
PART 1 (A&B) : RHS - BHARUCH (GWSSB+GIDC)

CLIENT:- GWSSB

TECHNICAL APPROVAL
GWSSB

TITLE :-
TYPICAL CROSS-SECTION OF BOX CULVERT
CARRYING MS HEADER PIPE CROSSING
THROUGH RIGHT BANK EMBANKMENT

DRAWN BY : G.R		DESIGN BY : G.B	
CHECKED BY : G.B	PROJ. CODE	DRG. NO.	REV
SCALE : NTS	WSS_09	01 OF 01	R0
DATE : 24.06.2026			