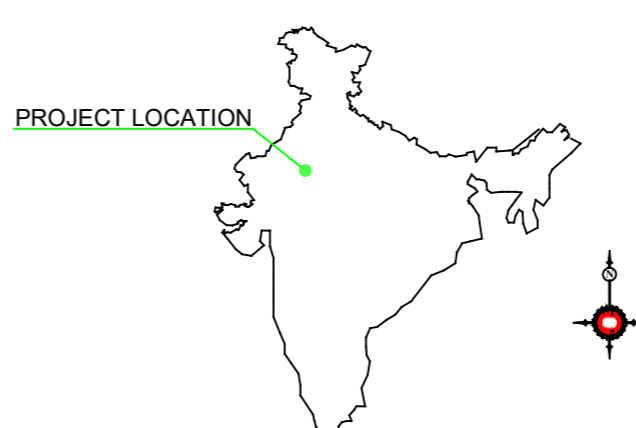



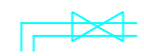
















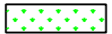
CLIENT: NIUA, DLB and Nagar Palika Bagru

PROJECT NAME: BAGRU - Faecal Sludge Treatment Plant

LOCATION: BAGRU, RAJASTHAN

INDEX TO DRAWINGS:			VICINITY MAP	LOCATION MAP
SHT NO.	DWG NO.	DESCRIPTION		 <p>GPS CO-ORDINATES: N=26°48'28.23" E= 75°31'28.11"</p>
01	BAGRU/FSTP/CD/MP	MASTER PLAN		
02	BAGRU/FSTP/CD/HP	HYDRAULIC PROFILE		
03	BAGRU/FSTP/CD/SC	SCREEN CHAMBER Plan of Screen Chamber, Cross Section of A-A, Cross Section A-A Screen Bar Details @ 1 and Screen Cross Section A-A		
04	BAGRU/FSTP/CD/SR-01	STABILIZATION REACTOR:- Plan of SR and Flow Direction of SR		
05	BAGRU/FSTP/CD/SR-02	STABILIZATION REACTOR :- Longitudinal Section @E-E and Manhole Layout Plan		
06	BAGRU/FSTP/CD/SR-03	STABILIZATION REACTOR :- Cross Section @A-A, Cross Section @B-B,Cross Section @C-C Cross Section @D-D		
07	BAGRU/FSTP/CD/SDB-01	SLUDGE DRYING BED :- Plan of SDB		
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09	BAGRU/FSTP/CD/ISAF-01	INTEGRATED SETTLER AND ANAEROBIC FILTER :- Plan of Integrated Settler and Anaerobic Filter with Cross Section @A-A		
10	BAGRU/FSTP/CD/ISAF-02	INTEGRATED SETTLER AND ANAEROBIC FILTER :- Cross Section @A-A and Plan of Manhole		
11	BAGRU/FSTP/CD/PGF	PLANTED GRAVEL FILTER :- Plan of Planted Gravel Filter, Cross Section @A-A and Cross Section @B-B		
12	BAGRU/FSTP/CD/PP-01	POLISHING POND :- Plan of Polishing Pond		
13	BAGRU/FSTP/CD/PP-02	POLISHING POND :- Cross Section @A-A and Cross Section @ B-B		
14	BAGRU/FSTP/CD/PDB-01	PLANTED DRYING BED:- Plan of PDB		
15	BAGRU/FSTP/CD/PDB-02	PLANTED DRYING BED :- Cross Section @A-A and Cross Section @B-B		
16	BAGRU/FSTP/CD/SSY	SLUDGE STORAGE YARD :- Plan of SSY, Section A-A, Section B-B and Foundation Details		
17	BAGRU/FSTP/CD/OR	OPERATOR ROOM :- Front Elevation, Plan of OR and Section A-A		

LEGENDS/SYMBOLS

	GATE VALVE		SUPPORT WALL
	MAN HOLE		SECTION OF A-A
	PIPE		V-NOTCH
	GAS VENT OPENING		WATER LEVEL
	RCC WALL		EXISTING GROUND LEVEL
	BRICK WALL		GAS VENT PIPE WITH VENT COWL
	CINDERS		S.S OPEN CHANNEL GATE
	SOLING		OPENING IN WALL
	CEMENT CONCRETE FILLING		LANDSCAPE

CLIENT: NIUA, DLB and Nagar Palika Bagru

PROJECT NAME: BAGRU - Faecal Sludge Treatment Plant

LOCATION: BAGRU, RAJASTHAN

INDEX TO DRAWINGS:

SHT NO.	DWG NO.	DESCRIPTION
18	BAGRU/FSTP/CD/GR	GUARD ROOM :- Plan of GR, Front Elevation and Section A-A
19	BAGRU/FSTP/CD/ROAD	ROAD :- Typical Cross Section of Blacktop Road
20	BAGRU/FSTP/CD/SC&SR	INTEGRATED SCREEN CHAMBER AND STABILIZATION REACTOR :- Plan of SC&SR, Cross Section @A-A
21	BAGRU/FSTP/CD/CW	COMPOUND WALL :- Plan of Compound Wall and Cross Section @ A-A
22	BAGRU/FSTP/CD/RAMP	RAMP :- Plan of RAMP and Cross Section @ A-A
23	BAGRU/FSTP/CD/RW	RETAINING WALL :- Plan of Retaining wall and Cross Section @ A-A
24	BAGRU/FSTP/CD/SWD-01	STORM WATER DRAINING :- Plan of Storm Water Drain
25	BAGRU/FSTP/CD/SWD-02	STORM WATER DRAINING :- Section of Storm Water Drain
26	BAGRU/FSTP/CD/SWT	STORM WATER TANK :- Top plan of Tank, Bottom plan of Section and Section @A-A
27	BAGRU/FSTP/CD/REGISTER	REGISTER :- Plan of Register and Cross Section @A-A

VICINITY MAP



LOCATION MAP



GPS CO-ORDINATES: N=26°48'28.23" E= 75°31'28.11"

LEGENDS/SYMBOLS

	GATE VALVE
	MAN HOLE
	PIPE
	GAS VENT OPENING
	RCC WALL
	BRICK WALL
	CINDERS
	SOLING
	CEMENT CONCRETE FILLING

	SUPPORT WALL
	SECTION OF A-A
	V-NOTCH
	WATER LEVEL
	EXISTING GROUND LEVEL
	GAS VENT PIPE WITH VENT COWL
	S.S OPEN CHANNEL GATE
	OPENING IN WALL
	LANDSCAPE



BAGRU FSTP

NOTES

- All dimensions are in mm, unless mentioned otherwise.
- All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission.
- E.O.L. = Existing Ground Level +96.5
- Grade of concrete proposed (M15, M20, M25). It is recommended to use Sulphate Resistance cement (SR).
- Reinforcement:
 - SC: Indicates Screen Chamber
 - SR: Indicates Stabilization Reactor
 - SDB: Indicates Sludge drying Bed
 - PDB: Indicates Planted Drying Bed
 - ST: Indicates Settler
 - AF: Indicates Amarettoe Filter
 - PPG: Indicates Planted Gravel Filter
 - PP: Indicates Polishing Pond
 - OR: Indicates Operator Room
 - GR: Indicates Guard Room
 - SSH: Sludge Storage House
- Use UPVC pipes (25.4mm, 55mm, 110mm & 150 mm dia. (1", 2", 4" & 6") which can withstand pressure of 6kg/cm².
- Barrel Mark: As per the layout plan provided.
- For percolate treatment structures inner plastering (walls and base) of 20mm thick is considered.

DATE	REVISIONS	REMARKS	SIGNATURE

TITLE
MASTER PLAN

DRG. No.
BAGRU/FSTP/CD/MP

PROJECT NAME
BAGRU FSTP

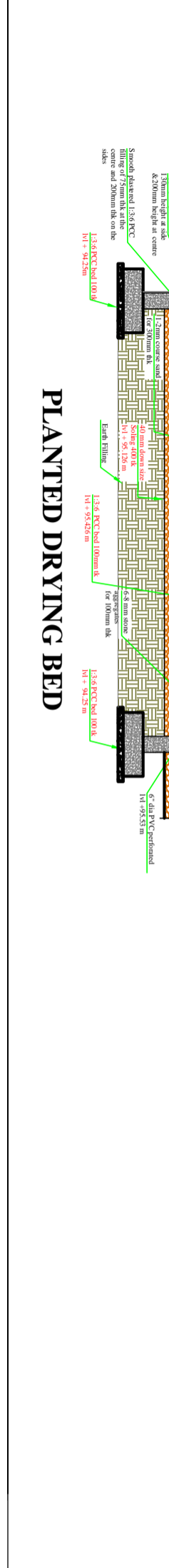
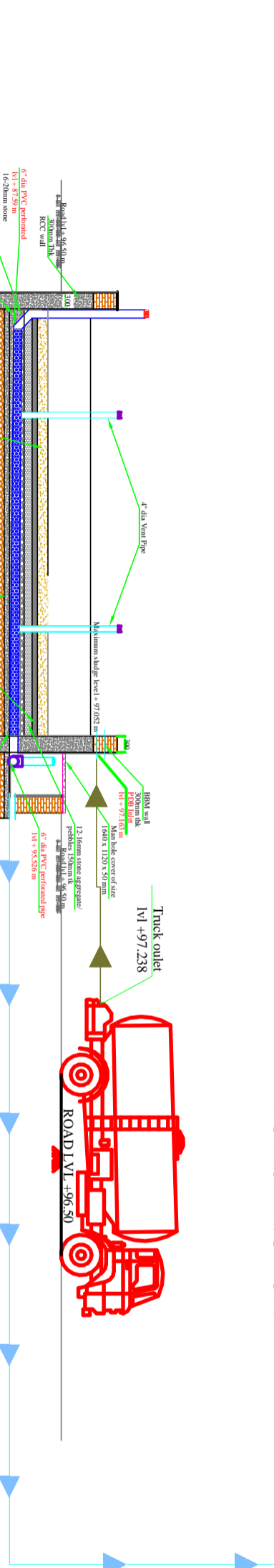
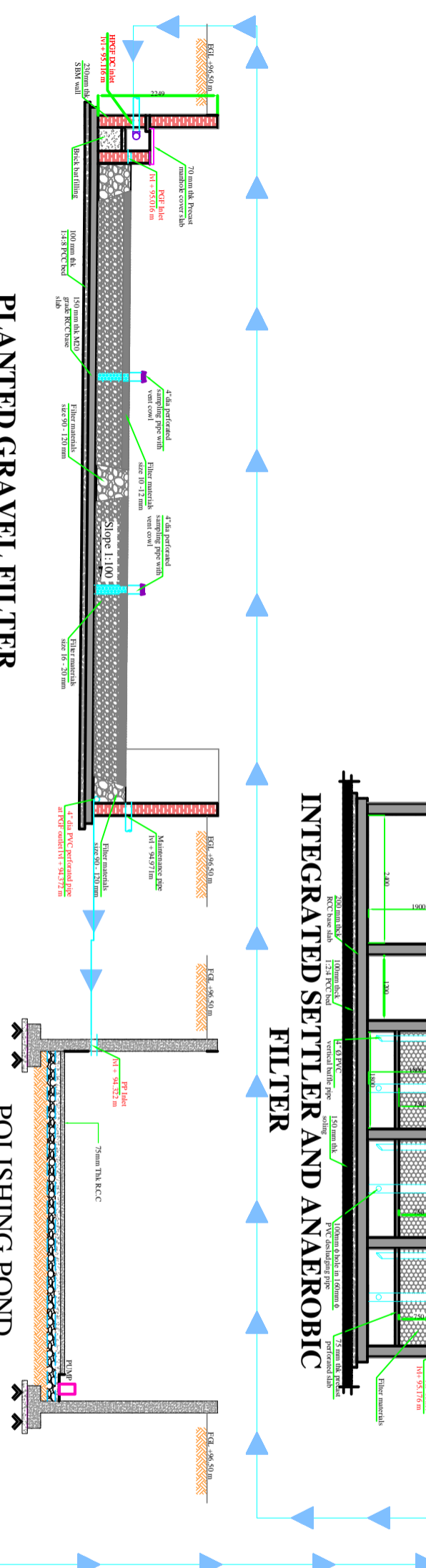
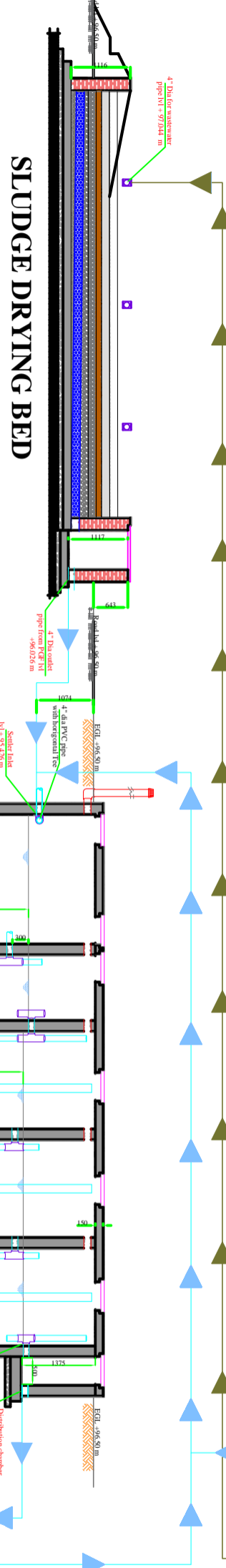
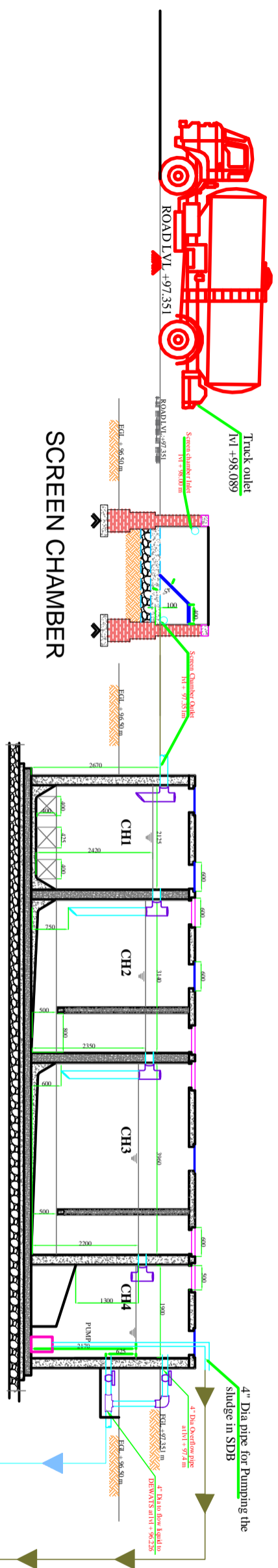
CLIENT:
NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:
Survey No.205,
Opp. Beedi Workers Colony,
Kommaghata Road, Bandemath
BANGALORE - 560 060
KARNATAKA



DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Suman	Praveen, N	Praveen, N
DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018

SCALE: NTS SHEET 01 OF 27 SHEETS



BAGRU FSTP

NOTES

- All dimensions are in mm unless mentioned otherwise.
- All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BOND/ACDD & is not to be copied or produced anywhere without their permission.
- E.O.L. = Existing Ground Level +96.5
- Grade of concrete proposed (M15, M20, M25). It is recommended to use Sulphate Resistance concrete.
- RCC indicates Reinforced Concrete.
- SC indicates Screen Chamber.
- SR indicates Stabilisation Reactor.
- SDB indicates Sludge drying Bed.
- PPD indicates Planted Drying Bed.
- ST indicates Settler.
- AF indicates Amertok's Filter.
- PGF indicates Planted Gravel Filter.
- OR indicates Operator Room.
- GR indicates Guard Room.
- SSY indicates Sludge Storage House.
- Use UPVC pipes (25-4mm, 55mm, 110mm & 150mm dia. (1", 2", 4" & 6") which can withstand pressure of 6kg/cm².
- Bench Mark = As per the layout plan provided.
- For percolate treatment structures inner plastering (walls and base) of 20mm thick is considered.

DATE	REVISIONS	REMARKS	SIGNATURE

TITLE HYDRAULIC PROFILE

DRG. No. BAGRU/FSTP/CD/HP
PROJECT NAME BAGRU FSTP

CLIENT: NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:

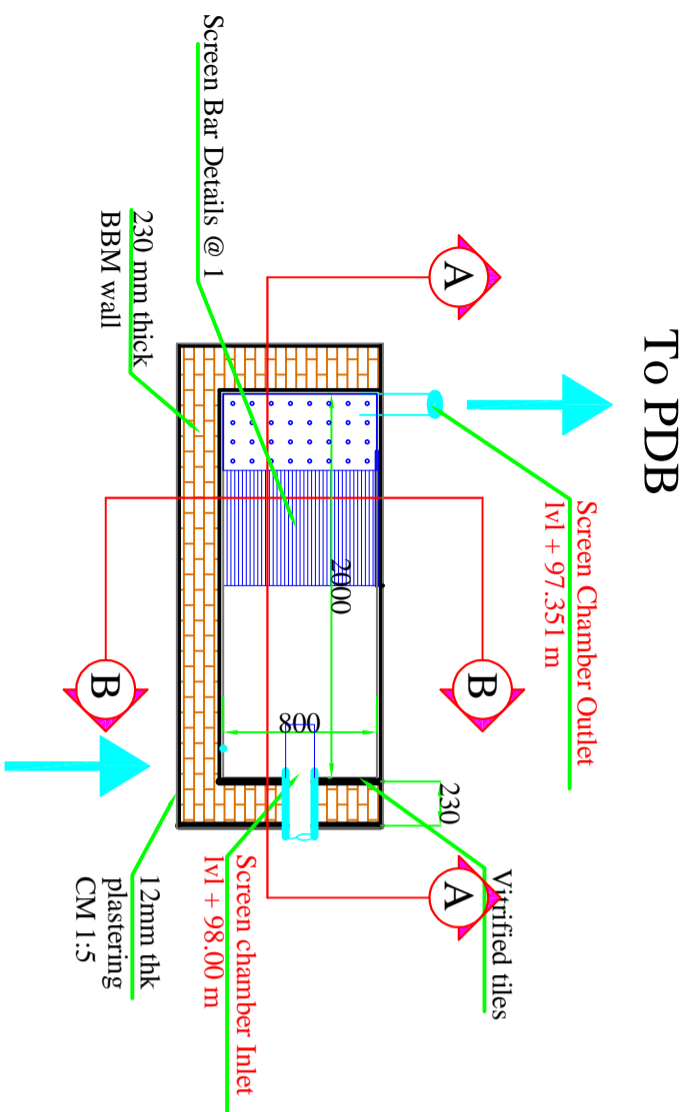
Survey No.205,
Opp. Beedi Workers Colony,
Kommaghatra Road, Bandanath
BANGALORE - 560 060
KARNATAKA.



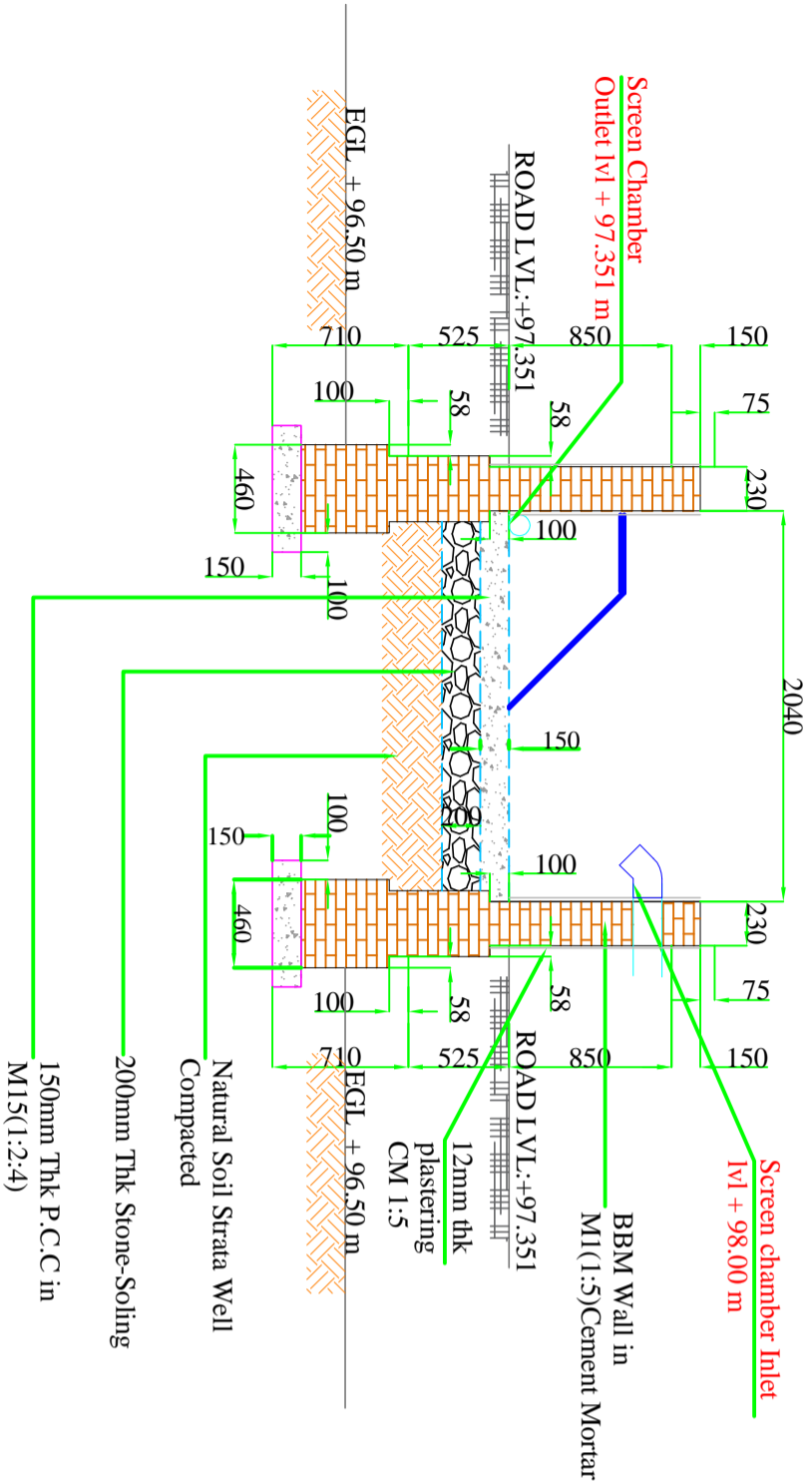
DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Suman	Praveen, N	Praveen, N

DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018

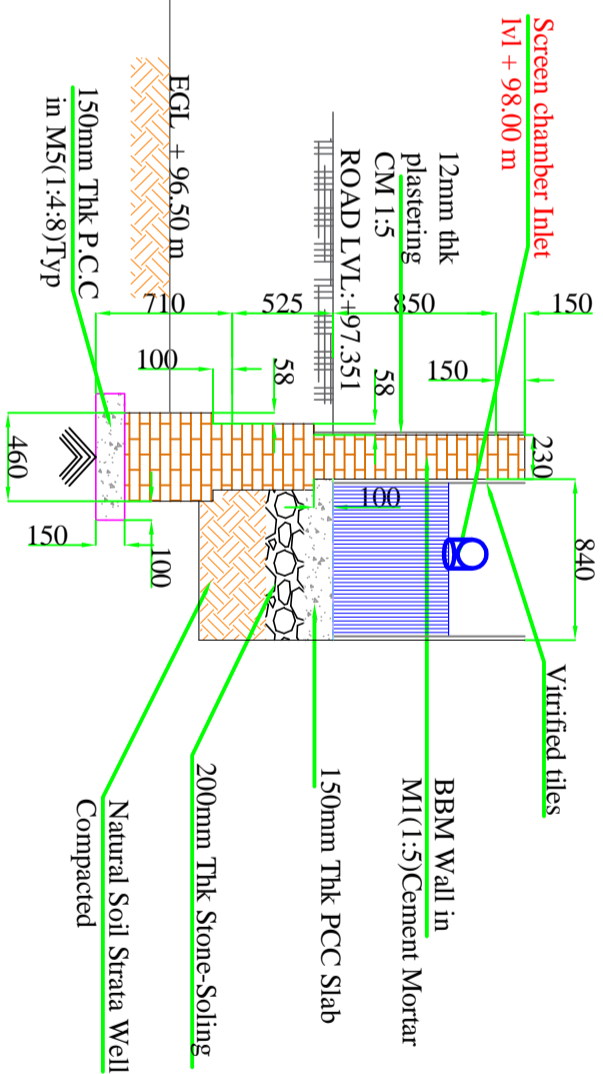
SCALE: NTS SHEET 02 OF 27 SHEETS



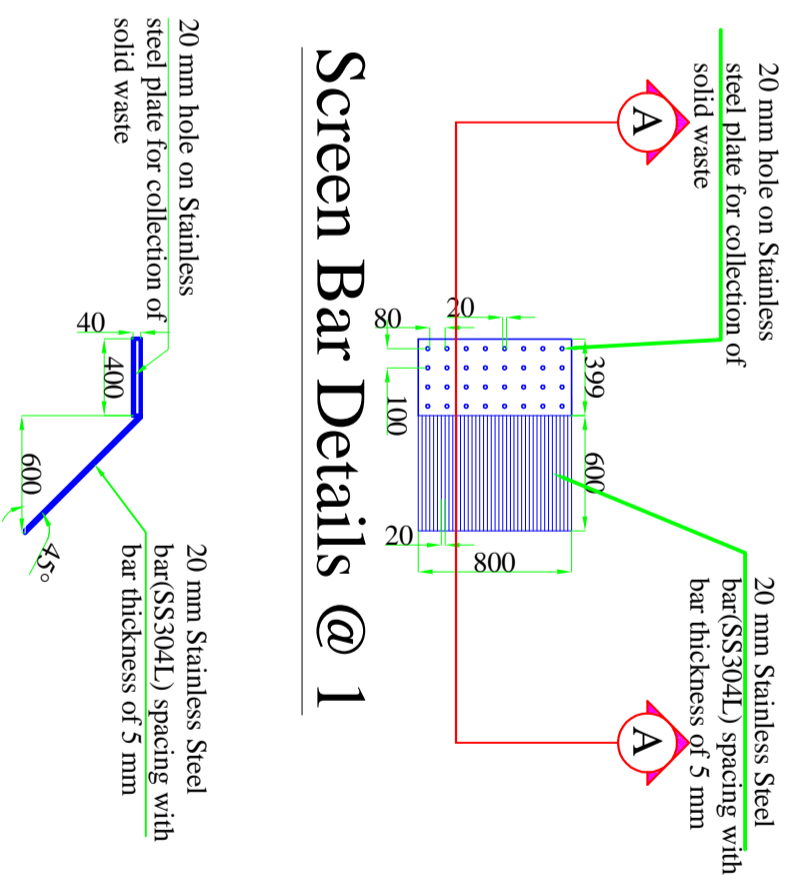
Plan of Screen Chamber



Cross Section of A-A



Cross Section of B-B



Screen Bar Details @ 1

Screen Cross Section A-A

BAGRU FSTP

NOTES

- All dimensions are in mm unless mentioned otherwise.
- All discrepancies are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission.
- EGL = Existing Ground Level +96.5
- Road lvl = +97.351
- Roof of street proposed (M15, M20/M25). It is recommended to use Sulphate Resistance Cement (SRC).
- R indicates Register.
- SC indicates Screen Chamber.
- SR indicates Stabilization Reactor.
- SDB indicates Sludge drying Bed.
- PDB indicates Planted Drying Bed.
- ST indicates Settler.
- AF indicates Amersolite Filter.
- PGF indicates Painted Gravel Filter.
- PPR indicates Polishing Pond.
- OR indicates Operator Room.
- SSY indicates Sludge Storage House.
- Use UPVC pipes (25-40mm, 55mm, 110mm & 150mm dia (1", 2", 4" & 6") which are withstand pressure of 4kg/cm².
- Reinforced concrete structures (walls and base) of 200mm thick is considered.
- For the layout plan provided.
- For the treatment structures inner plastering (walls and base) of 20mm thick is considered.

DATE	REVISIONS	REMARKS	SIGNATURE

TITLE
SCREEN CHAMBER
 Plan of Screen Chamber, Cross Section of A-A, Cross Section A-A
 Screen Bar Details @ 1 and Screen Cross Section A-A

DRG. No.
 BAGRU/FSTP/CD/SC
PROJECT NAME
 BAGRU FSTP

CLIENT:
 NIUA, DLB and Nagar Palika Bagru

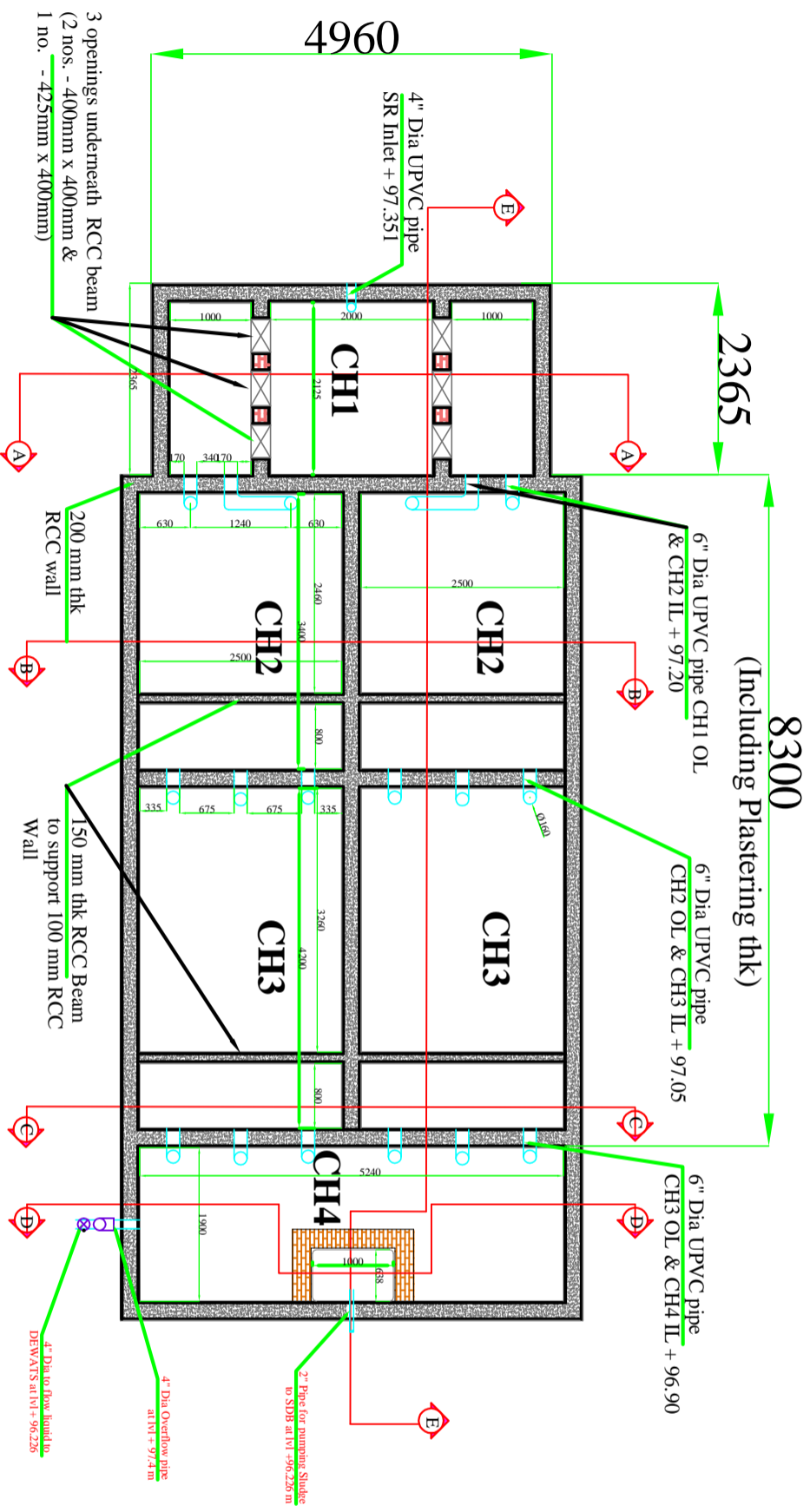
CLIENTS CONSULTANT:
 Survey No.205,
 Opp. Beedi Workers Colony,
 Konnaiphata Road, Bandamath
 BANGALORE - 560 060
 KARNATAKA



DRAWN BY Ritesh Kumar Suman
CHECKED BY Praveen, N
APPROVED BY Praveen, N

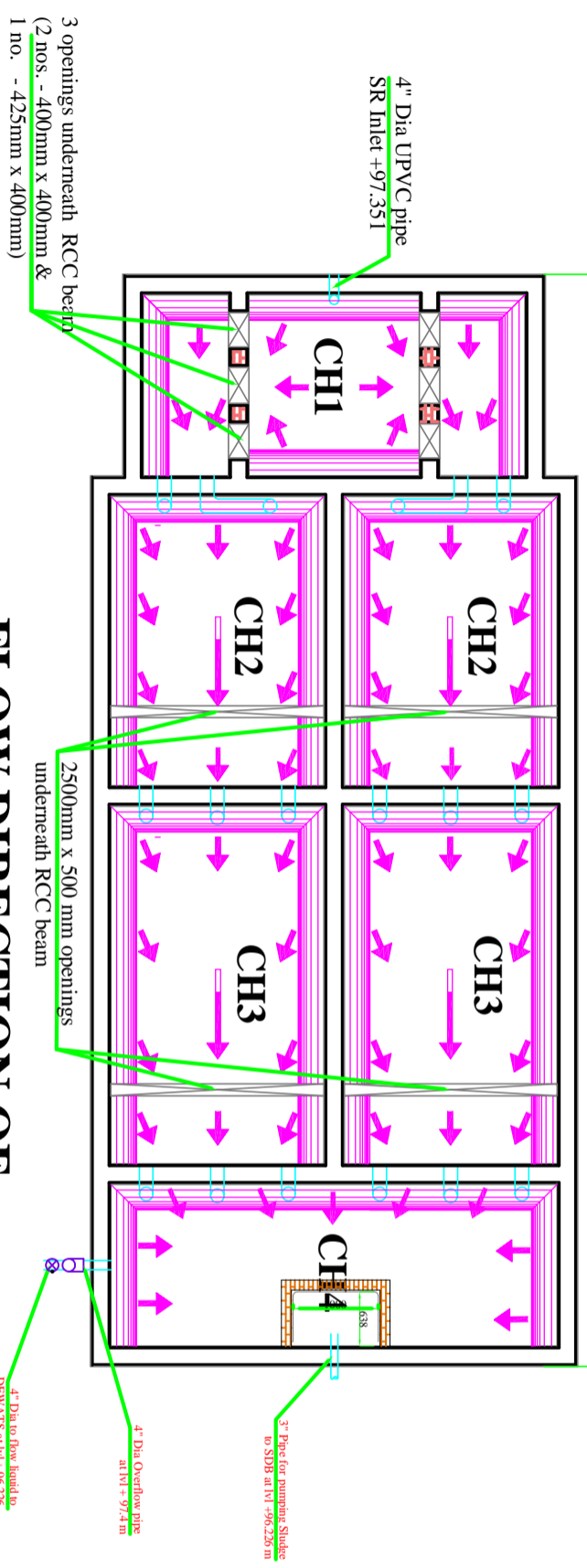
DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018

SCALE: NTS **SHEET** 03 **OF** 27 **SHEETS**



PLAN OF STABILISATION REACTOR

12825
(Including Plastering thk)



FLOW DIRECTION OF STABILISATION REACTOR

BAGRUFSTP

NOTES

1. All dimensions are in 'mm' unless mentioned otherwise.
2. All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
3. This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission.
4. EOL = Existing Ground Level +96.5
5. Road WL = +97.351
6. Road of river proposed (M15, M20/M25). It is recommended to use Sulphate Resistance Cement (SRC).
7. 'R' indicates Register.
7. 'SC' indicates Screen Chamber.
- SR' indicates Stabilization Reactor
- SDB' indicates Sludge drying Bed
- PDB' indicates Planted Drying Bed
- ST' indicates Settler
- 'AF' indicates Amaretok's Filter
- 'PGF' indicates Painted Gravel Filter
- 'PP' indicates Polishing Pond
- OKR indicates Operator Room
- OKR indicates Guard Room
- SSY Sludge Storage House
8. Use UPVC pipes (25-4mm, 55mm, 110mm & 150 mm dia. (1", 2", 4" & 6") which can withstand pressure of 6kg/cm².
9. Present Mark = As per the layout plan provided
10. For present the treatment structures inner plastering (walls and base) of 20mm thick is considered.

REVISIONS

DATE	REMARKS	SIGNATURE

TITLE
STABILIZATION REACTOR:-
Plan of SR and Flow Direction of SR

DRG. No.
BAGRUFSTP/CD/SR-01

PROJECT NAME
BAGRUFSTP

CLIENT:
NIUA, DLB and Nagar Palika Bagru

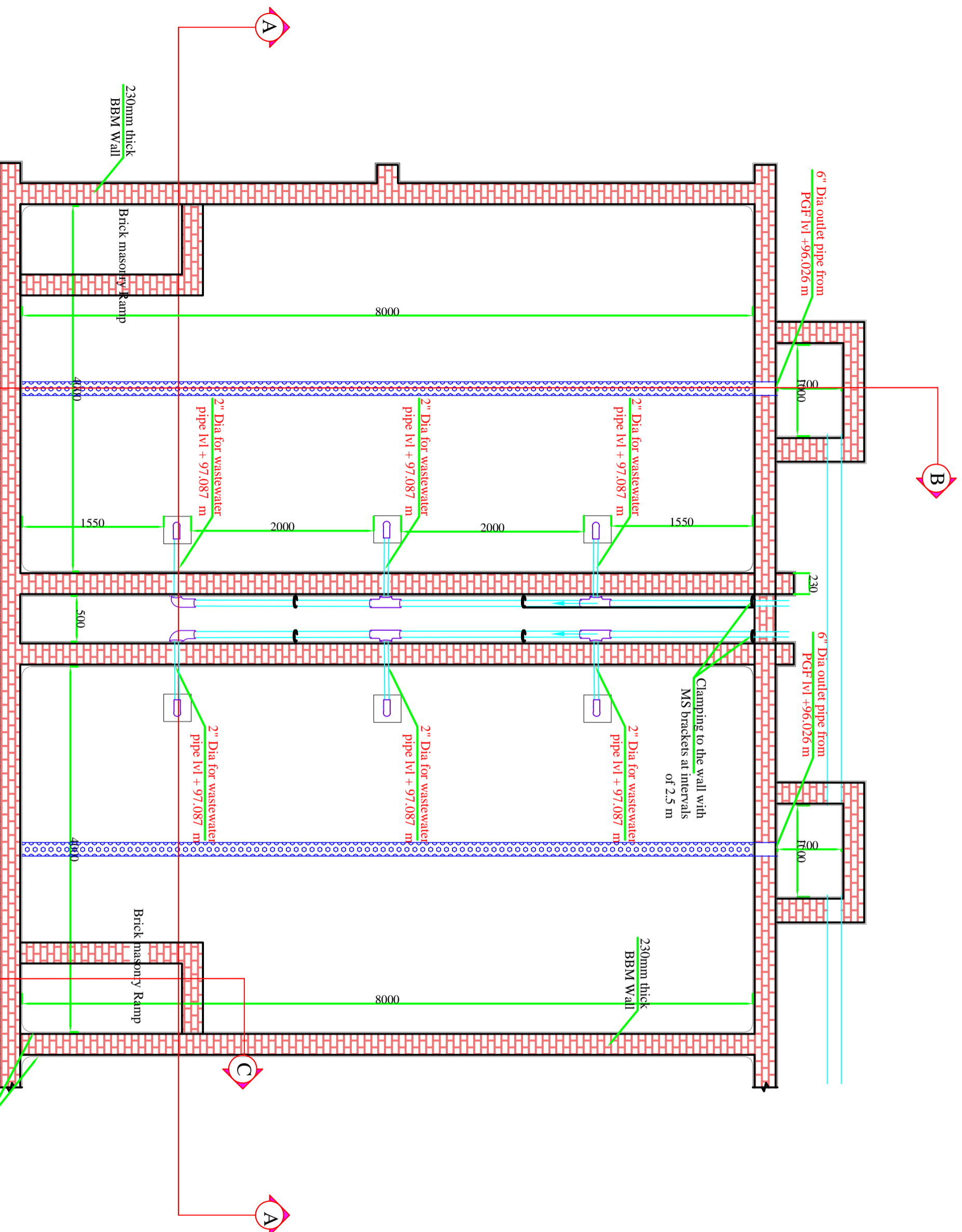
CLIENTS CONSULTANT:
Survey No.205,
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KARNATAKA



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Ritesh Kumar Suman	Praveen, N	Praveen, N

DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018

SCALE: NTS SHEET 04 OF 27 SHEETS



Plan of Sludge Drying Bed

BAGRU FSTP

NOTES

- All dimensions are in 'mm' unless mentioned otherwise.
- All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BORDA (CDD) & is not to be copied or produced anywhere without their permission.
- EBL = Existing Ground Level +96.5
- Road LV = +96.5
- Grade of concrete proposed (M15, M20, M25). It is recommended to use Sulphate Resistance Concrete (SRC).
- RC indicates Reinforced Concrete.
- SC indicates Screen Chamber.
- SR indicates Stabilization Reactor.
- SDB indicates Sludge-drying Bed.
- PDB indicates Planted Drying Bed.
- ST indicates Settler.
- AF indicates Anaerobic Filter.
- PGF indicates Planted Gravel Filter.
- PP indicates Polishing Pond.
- OR indicates Operator Room.
- GR indicates Guard Room.
- SSY Sludge Storage House.
- Use UPVC pipes (254mm, 55mm, 110mm & 150 mm dia. (1", 2", 4" & 6")) which can withstand pressure of 8kg/cm².
- Finish Mark = As per the layout plan provided.
- For all the concrete structures proper plastering (walls and base) of 20mm thick is considered.

REVISIONS

NO.	REVISIONS	DATE	SIGNATURE

TITLE
SLUDGE DRYING BED :-
Plan of SDB

DRG. No.
BAGRU/FSTP/CD/SDB-01
PROJECT NAME
BAGRU FSTP

CLIENT:
NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:

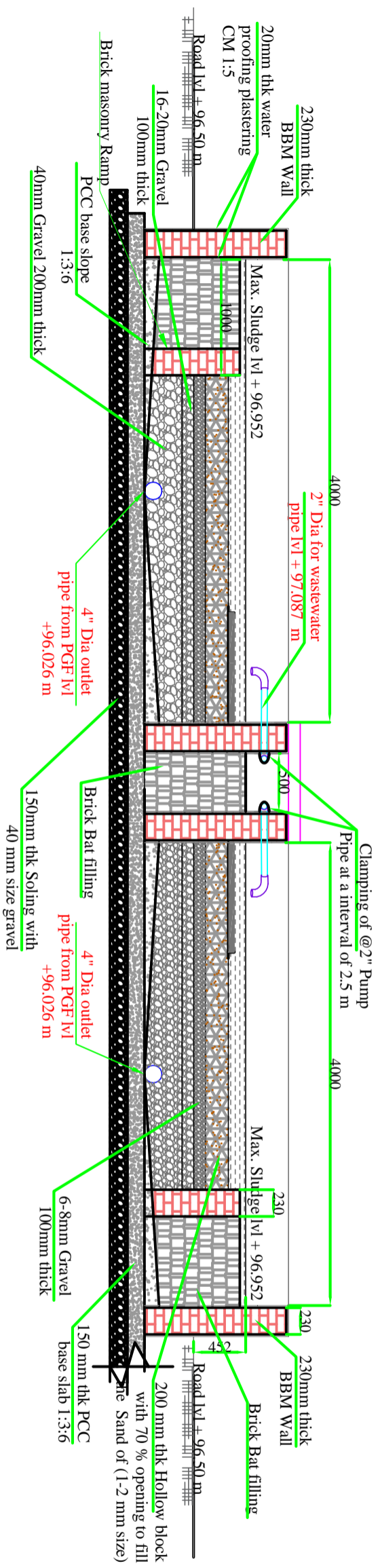
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Opp. Beedh Workers Colony,
Kommaghatta Road, Bandemah
BANGALORE - 560 060
KARNATAKA.



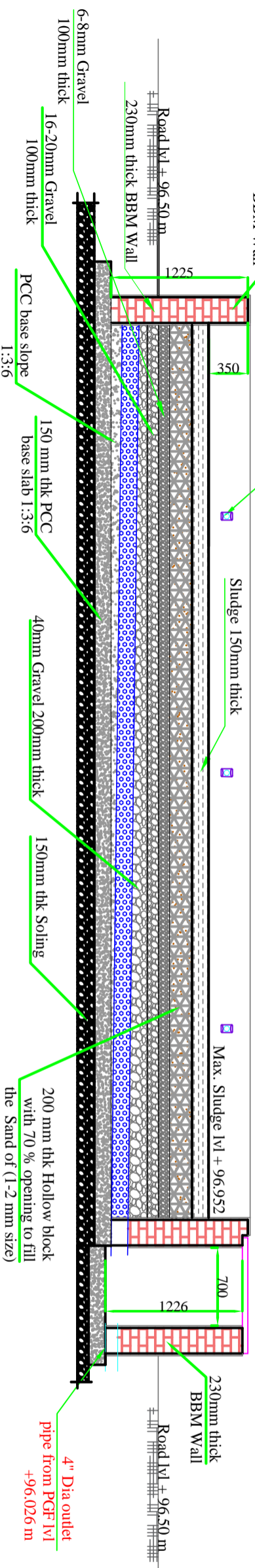
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Ritesh Kumar Suman	Praveen. N	Praveen. N

DATE	DATE	DATE
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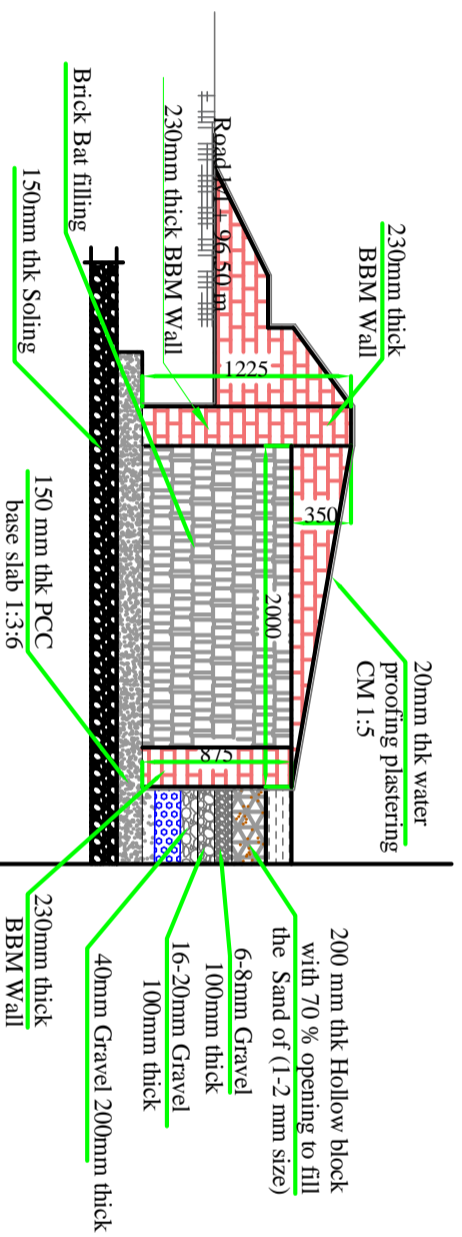
SCALE: NTS SHEET 07 OF 27 SHEETS



Cross section A-A



Cross section B-B



Cross section C-C

BAGRU FSTP

NOTES

- All dimensions are in 'mm' unless mentioned otherwise.
- All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission.
- EQL = Existing Ground Level +96.5
- Road lvl = +96.5
- Grade of concrete proposed (M15, M20/M25). It is recommended to use Sulphate Resistance
- R indicates SRP/Sluice
- SR indicates Sluice Chamber
- SDR indicates Sludge drying Bed
- PPD indicates Planted Drying Bed
- ST indicates Sinter
- AF indicates Amarothe Filter
- PPF indicates Planted Gravel Filter
- PPR indicates Plating Pond
- OR indicates Operator Room
- SSR indicates Guard Room
- SSY Sludge Storage House
- Use UPVC Pipes (254mm, 55mm, 110mm & 150 mm dia. (1", 2", 4" & 6")) which can withstand pressure of 6kg/cm².
- Brick Mark = As per the layout plan provided
- For percolate treatment structures inter plastering (walls and base) of 20mm thick is considered.

REVISIONS

NO.	REVISIONS	SIGNATURE

TITLE

SLUDGE DRYING BED :-

Cross Section A-A, Cross Section B-B and Cross Section C-C

DRG. No. BAGRU/FSTP/CD/SDB-02

PROJECT NAME
BAGRU FSTP

CLIENT:
NIUA, DLB and Nagar Palika Bagru

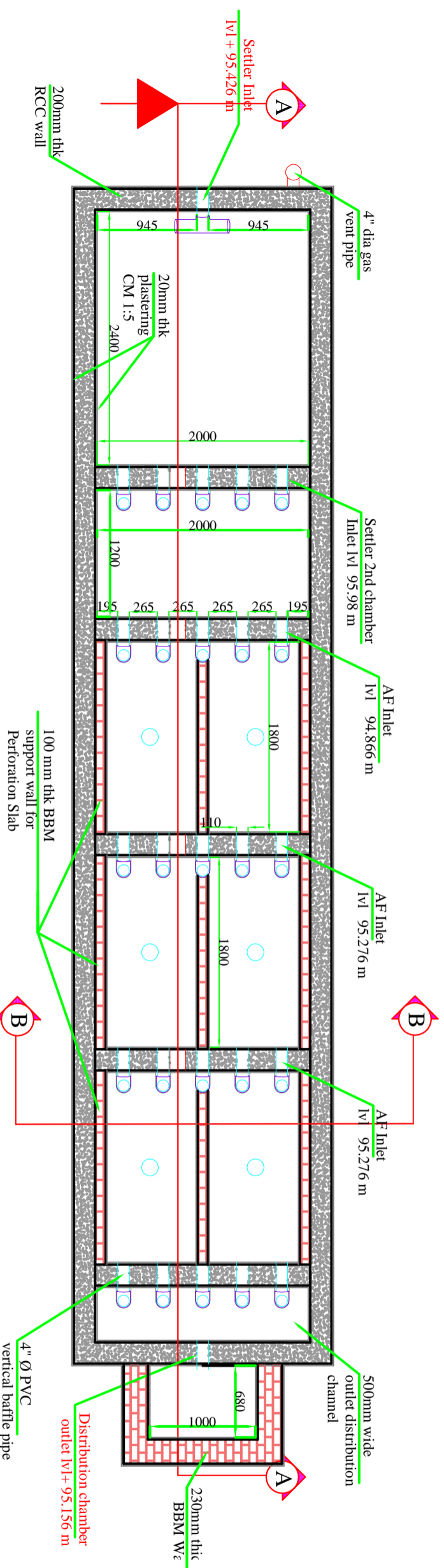
CLIENTS CONSULTANT:

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BANGALORE - 560 060
KARNATAKA

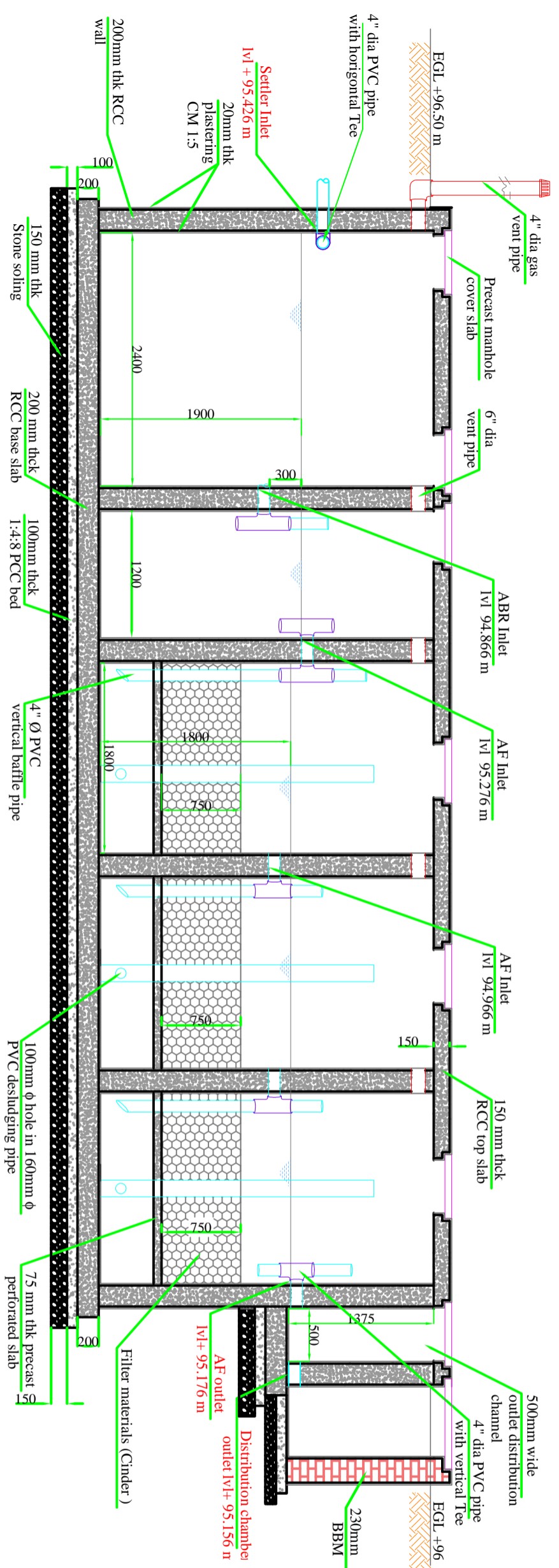


Consultants for
M&E
Society

DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Suman	Praveen. N	Praveen. N
DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018
SCALE: NTS	SHEET 08 OF 27 SHEETS	



Plan of Integrated Settler and Anaerobic Filters



Cross section @ A-A

NOTES

- All dimensions are in mm unless mentioned otherwise.
- All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BORDACDD & is not to be copied or produced anywhere without their permission.
- EGL = Existing Ground Level +96.5
- Grade of concrete proposed (M15, M20 M25). It is recommended to use Sulphate Resistance Cement (SRC).
- Refer to the Register.
- CR indicates Register Chamber
- SR indicates Substation Resistor
- SDB indicates Sludge drying Bed
- PDB indicates Planted Drying Bed
- ST indicates Steer
- AF indicates Anaerobic Filter
- PGF indicates Planted Gravel Filter
- PP indicates Polishing Pond
- OR indicates Operator Room
- GR indicates Guard Room
- SSY indicates Storage House
- Use UPVC pipes (25-4mm, 55mm, 110mm & 150 mm dia. (1", 2", 4" & 6")) which can withstand pressure of 6kg/cm².
- Bench Mark = As per the layout plan provided
- For percolate treatment structures minor plastering (wall and base) of 20mm thick is considered.

REVISIONS

NO.	REMARKS	SIGNATURE

TITLE

INTEGRATED SETTLER AND ANAEROBIC FILTER :-

Plan of Integrated Settler and Anaerobic Filter with Cross Section @A-A

DRG. No. BAGRU/FSTP/CD/SAF-01

PROJECT NAME
BAGRU FSTP

CLIENT:

NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:

Survey No.205,
Opp. Beedi Workers Colony,
Kommaghatta Road, Bandemath
BANGALORE - 560 060
KARNATAKA.

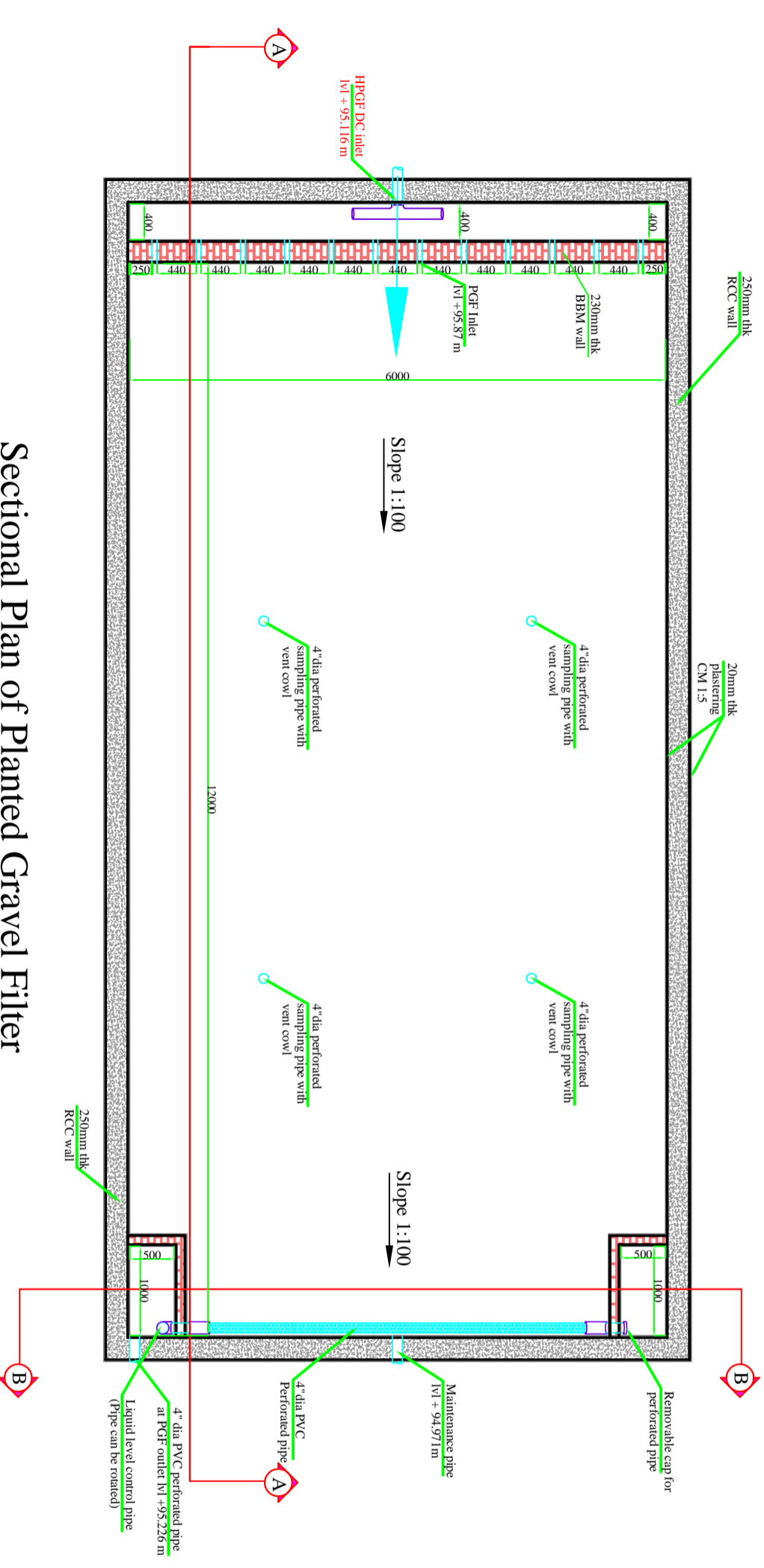


DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Suman	Praveen, N	Praveen, N

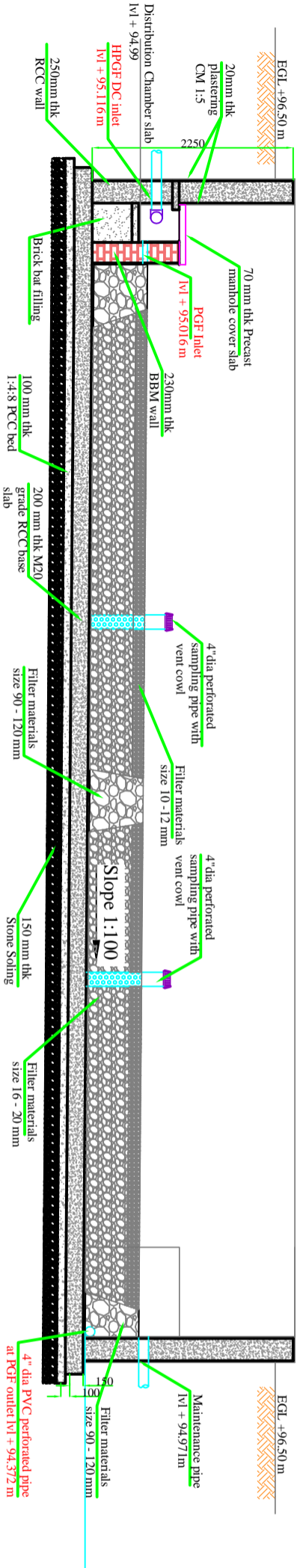
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SCALE: NTS SHEET 09 OF 27 SHEETS

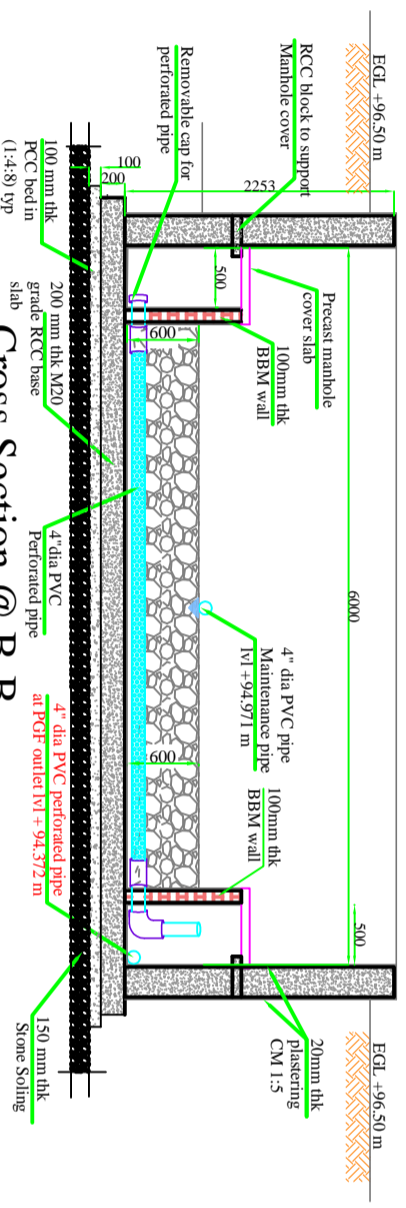
BAGRU FSTP



Sectional Plan of Planted Gravel Filter



Cross section @ A-A



Cross Section @ B-B

BAGRU FSTP

NOTES

- All dimensions are in 'mm', unless mentioned otherwise.
- Any discrepancy or omission shall be brought to the notice.
- This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission.
- EGL = Existing Ground Level -96.5
- Grade of concrete proposed (M15, M20, M25). It is recommended to use Sulphate Resistance Cement (SRC).
- SR indicates Register.
- SC indicates Street Chamber.
- SDR indicates Storm Drainage Register.
- PDBR indicates Sludge drying bed.
- ST indicates Slender Drying Bed.
- AS indicates Aerator.
- AGF indicates Aerator Filter.
- PGF indicates Planted Gravel Filter.
- PPR indicates Polishing Pond.
- OPR indicates Operator Room.
- GR indicates Guard Room.
- SSV indicates Sludge Storage House.
- Use UPVC pipes (25.4mm, 55mm, 110mm & 150 mm dia (1", 2", 4" & 6")) which can withstand pressure of 6kg/cm².
- Bench Mark = As per the layout plan provided.
- For percolate treatment structures inner plastering (walls and base) of 20mm thick is considered.

REVISIONS

NO.	REVISIONS	REMARKS	SIGNATURE

TITLE

PLANTED GRAVEL FILTER :-

Plan of Planted Gravel Filter, Cross Section @ A-A and Cross Section @ B-B

DRG. No. BAGRU/FSTP/CD/PGF

PROJECT NAME
BAGRU FSTP

CLIENT:
NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:

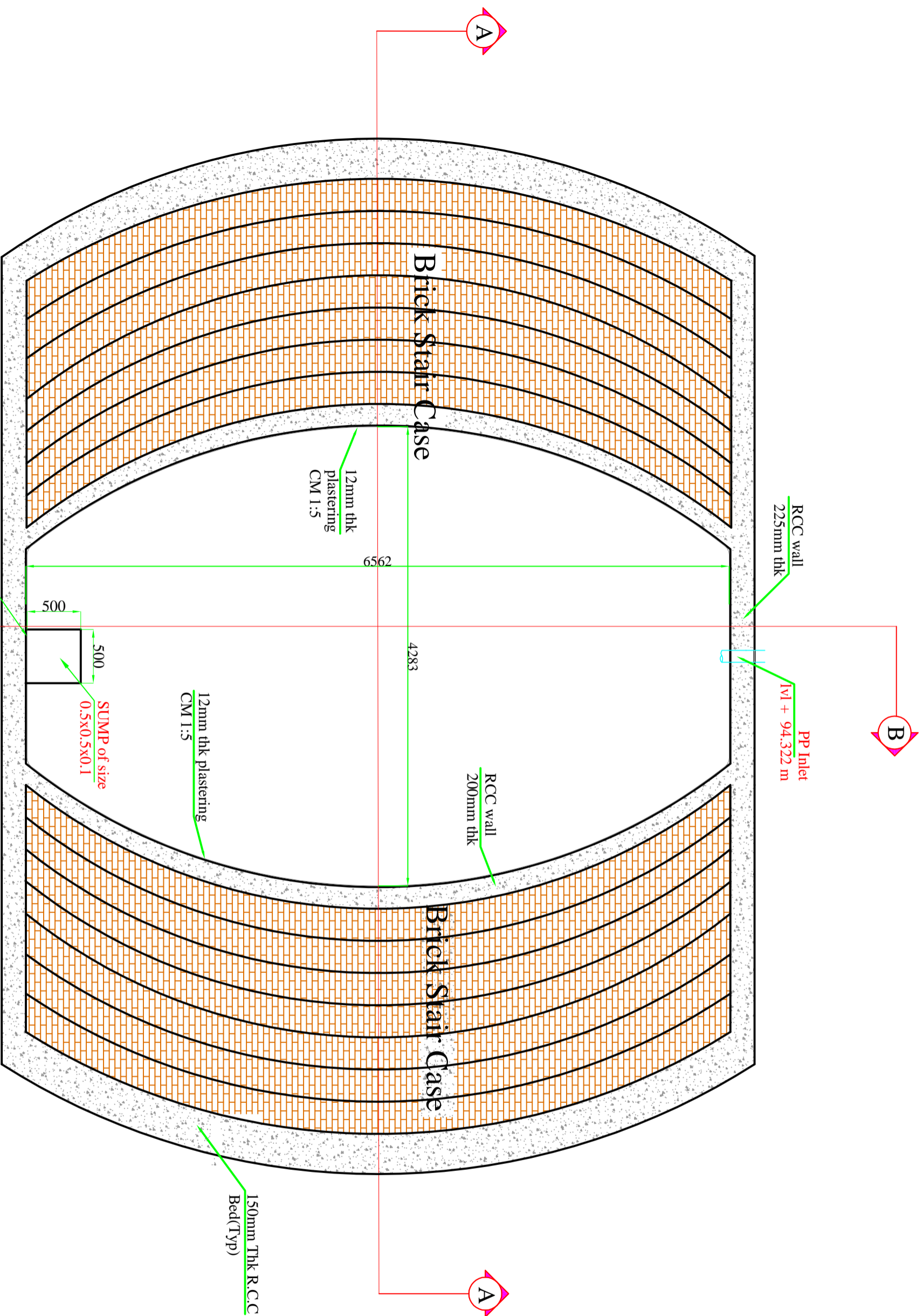
Survey No.205,
Opp. Beedi Workers Colony,
Kommaghatia Road, Bandenath
BANGALORE - 560 060
KARNATAKA.



DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Suman	Praveen N	Praveen N

DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018

SCALE: NTS SHEET 11 OF 27 SHEETS



BAGRUFSTP

NOTES

- All dimensions are in 'mm' unless mentioned otherwise.
- All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission.
- G.L. = Existing Ground level -196.5
- Grade of concrete proposed (M15, M20, M25). It is recommended to use Sulphate Resistance Cement (SRC)
- C.P. indicates Register.
- S.C. indicates Screen Chamber
- S.R. indicates Stabilization Reactor
- SDB' indicates Sludge drying Bed
- PDB' indicates Planted Drying Bed
- ST' indicates Settler
- AF' indicates Ananodic Filter
- PGF' indicates Planted Gravel Filter
- PP' indicates Polishing Pond
- OR' indicates Operator Room
- GR' indicates Guard Room
- SSR' Sludge Storage Room
- Use U.P. of pipes (25, 50mm, 75mm, 110mm & 150mm dia (1" - 2" - 4" - 6") which can withstand a pressure of 6 kg/cm² (87 PSI).
8. Bench Mark = As per the layout plan provided
9. For percolate treatment structures inner plastering (walls and base) of 20mm thick is considered.

REVISIONS

DATE	REMARKS	SIGNATURE

TITLE

POLISHING POND :-
Plan of Polishing Pond

DRG. No. BAGRU/FSTP/CD/PP-01
 PROJECT NAME BAGRU FSTP
 CLIENT: NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:
 Survey No.205,
 Opp. Beedi Workers Colony,
 Kommaghatta Road, Bandednath
 BANGALORE - 560 060
 KARNATAKA.

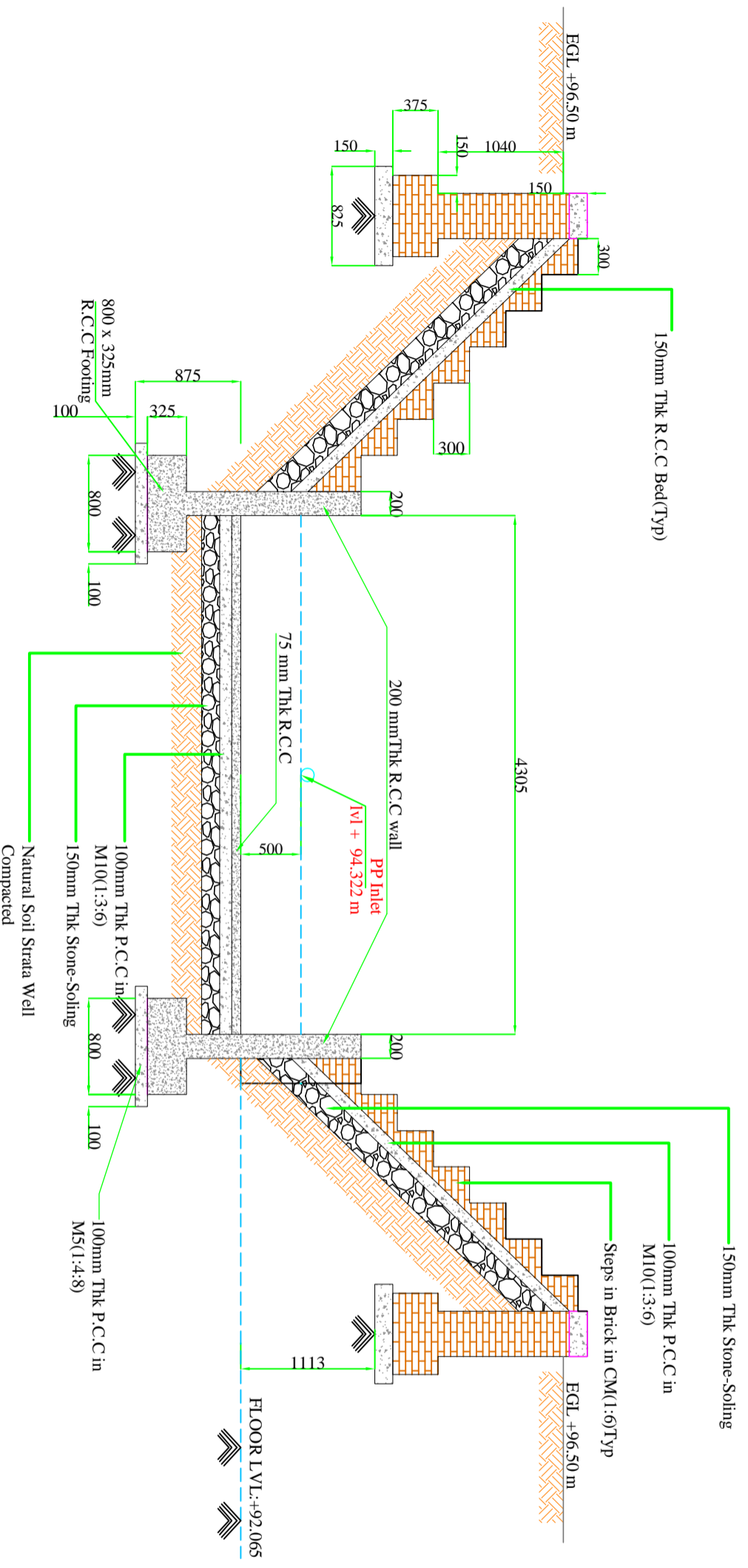


DRAWN BY Ritesh Kumar Suman
CHECKED BY Praveen. N
APPROVED BY Praveen. N

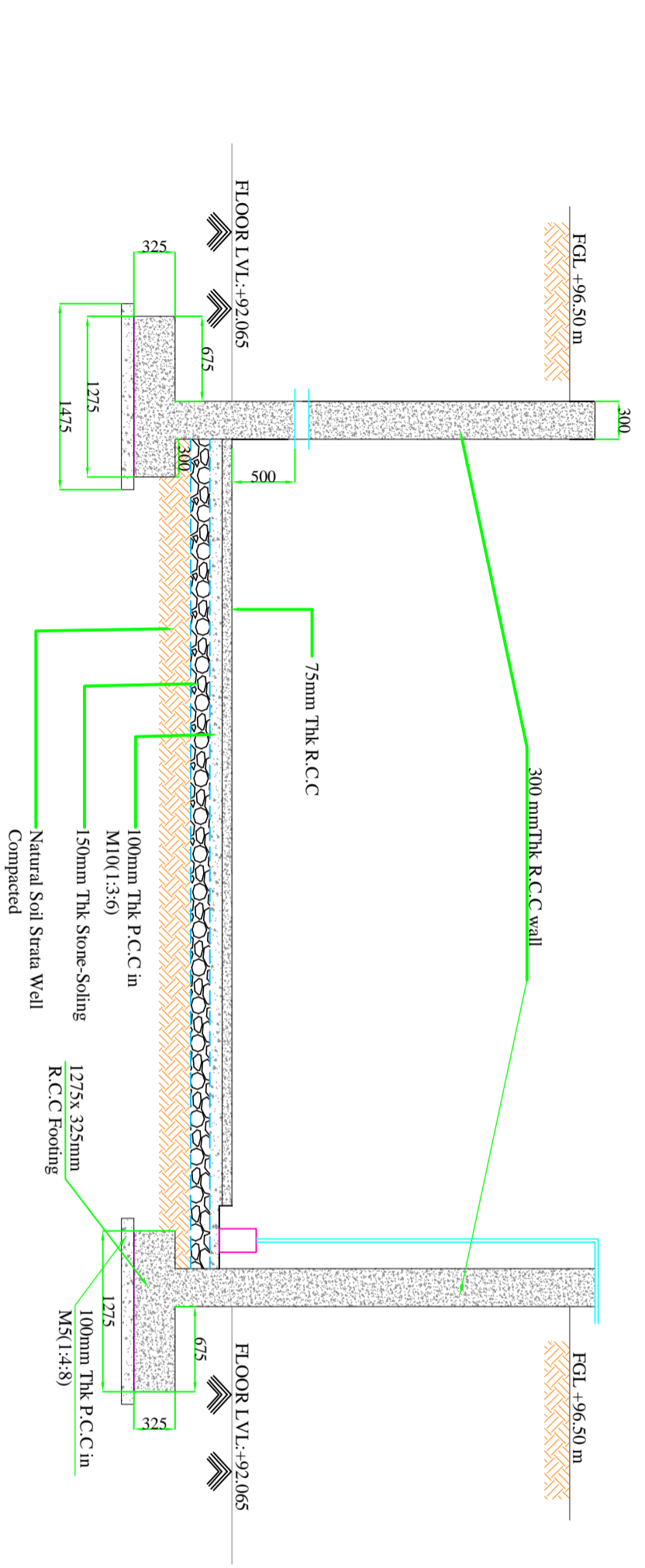
DATE 22/02/2018
DATE 22/02/2018
DATE 22/02/2018

SCALE: NTS SHEET 12 OF 27 SHEETS

Plan of Polishing Pond



Cross Section of A-A



Cross Section of B-B

BAGRU FSTP

- NOTES**
- All dimensions are in 'mm' unless mentioned otherwise.
 - All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
 - This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission.
 - EGL = Existing Ground Level +96.5
 - Grade of concrete proposed (M15, M20/M25). It is recommended to use Sulphate Resistance Cement (SRP).
 - R: indicates Ratio.
 - SC: indicates Screen Chamber.
 - SR: indicates Stabilization Resistor.
 - SDB: indicates Sludge drying Bed.
 - PDDB: indicates Planted Drying Bed.
 - ST: indicates Settler.
 - AF: indicates Aeration Filter.
 - PGF: indicates Planted Gravel Filter.
 - PP: indicates Polishing Pond.
 - OR: indicates Operator Room.
 - GR: indicates Guard Room.
 - SSS: Sludge Storage House.
 - Use UPVC pipes (25.4mm, 50mm, 110mm & 150mm dia. (1", 2", 4" & 6")) which can withstand pressure of 6kg/cm².
 - rench Mark = As per the layout plan provided.
 - For concrete treatment structures inner plastering (walls and base) of 20mm thick is considered.

REVISIONS	SIGNATURE

TITLE
POLISHING POND :-
 Cross Section @ A-A and Cross Section @ B-B

DRG. No.
 BAGRU/FSTP/CD/PP-02
PROJECT NAME
 BAGRU FSTP

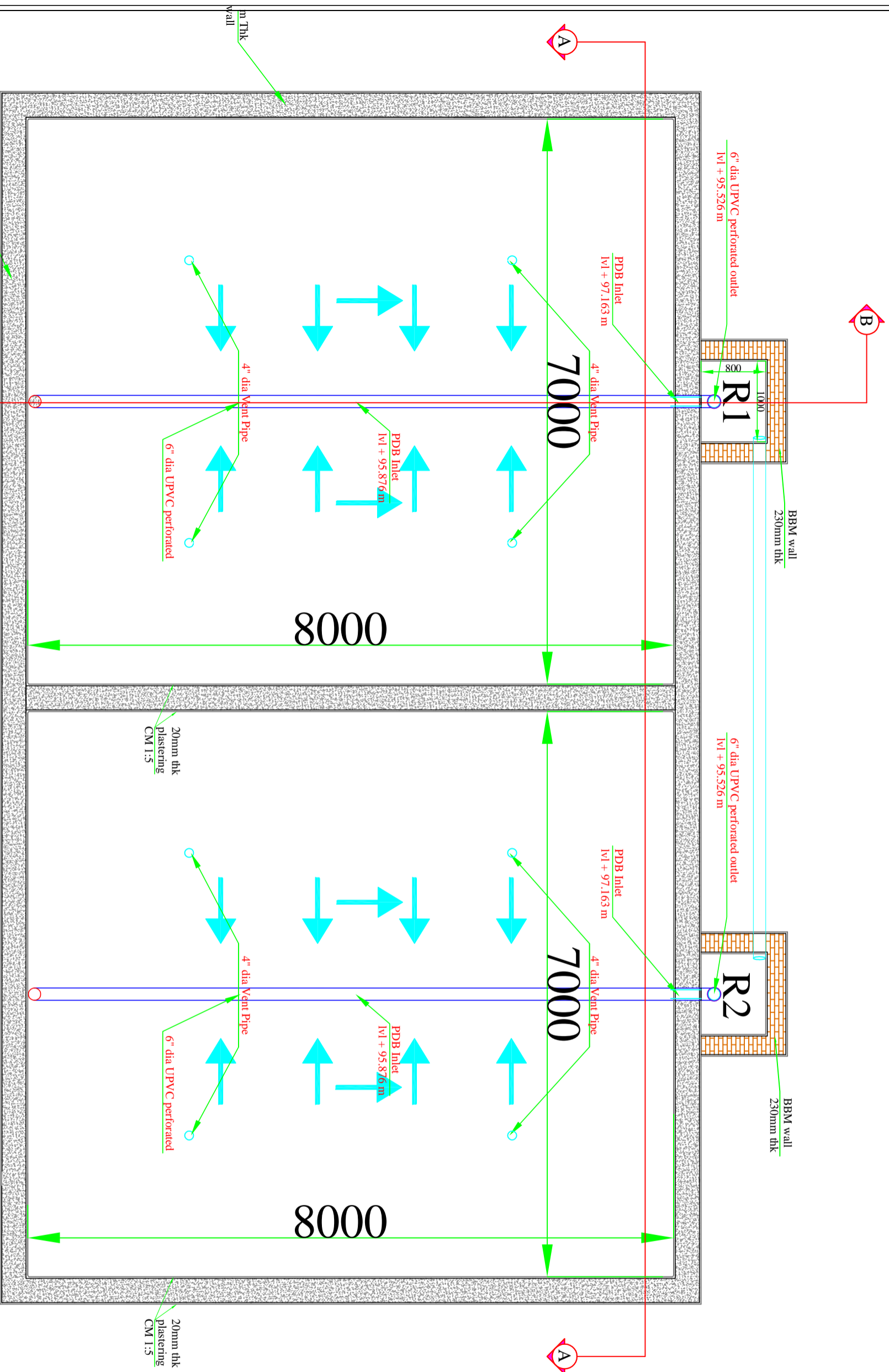
CLIENT:
 NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:
 Survey No.205,
 Opp. Beedi Workers Colony,
 Kommaghatta Road, Bandanah
 BANGALORE - 560 060
 KARNATAKA.

DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Suman	Praveen. N	Praveen. N

DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018

SCALE: NTS SHEET 13 OF 27 SHEETS



Plan of Planted Drying Bed

BAGRU ESTP

NOTES

- All dimensions are in 'mm' unless mentioned otherwise.
- All discrepancies are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission.
- EGL = Existing Ground Level +96.5
- Grade of concrete proposed (M15, M20, M25). It is recommended to use Sulphate Resistance Cement (SRC).
- R indicates Register.
- SC indicates Screen Chamber
- SS indicates Sand Storage Tank
- SDP indicates Sludge Drying Bed
- PDB indicates Planted Drying Bed
- ST indicates Settler
- AF indicates Anaerobic Filter
- PGF indicates Planted Gravel Filter
- PP indicates Polishing Pond
- OR indicates Operator Room
- GR indicates Guard Room
- SSV indicates Sludge Storage Tank
- Use UPVC pipes (25-4mm, 55mm, 110mm & 150 mm dia. (1", 2", 4" & 6")) which can withstand pressure of 0kg/cm².
- Bench Mark = As per the layout plan provided
- For percolate treatment structures inner plastering (walls and base) of 20mm thick is considered.

REVISIONS

NO.	REVISIONS	SIGNATURE

TITLE
PLANTED DRYING BED:-
Plan of PDB

DRG. No.
BAGRU/FSTP/CD/PDB-01

PROJECT NAME
BAGRU ESTP

CLIENT:

NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:

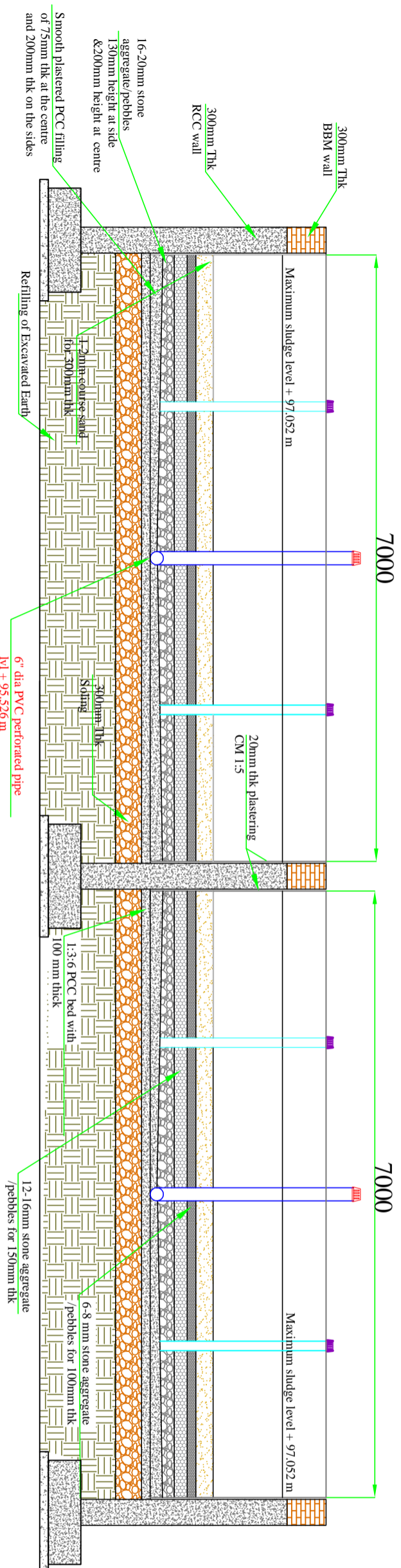
Survey No.205,
Opp. Beedi Workers Colony,
Kommaghatra Road, Bandemath
BANGALORE - 560 060
KARNATAKA.



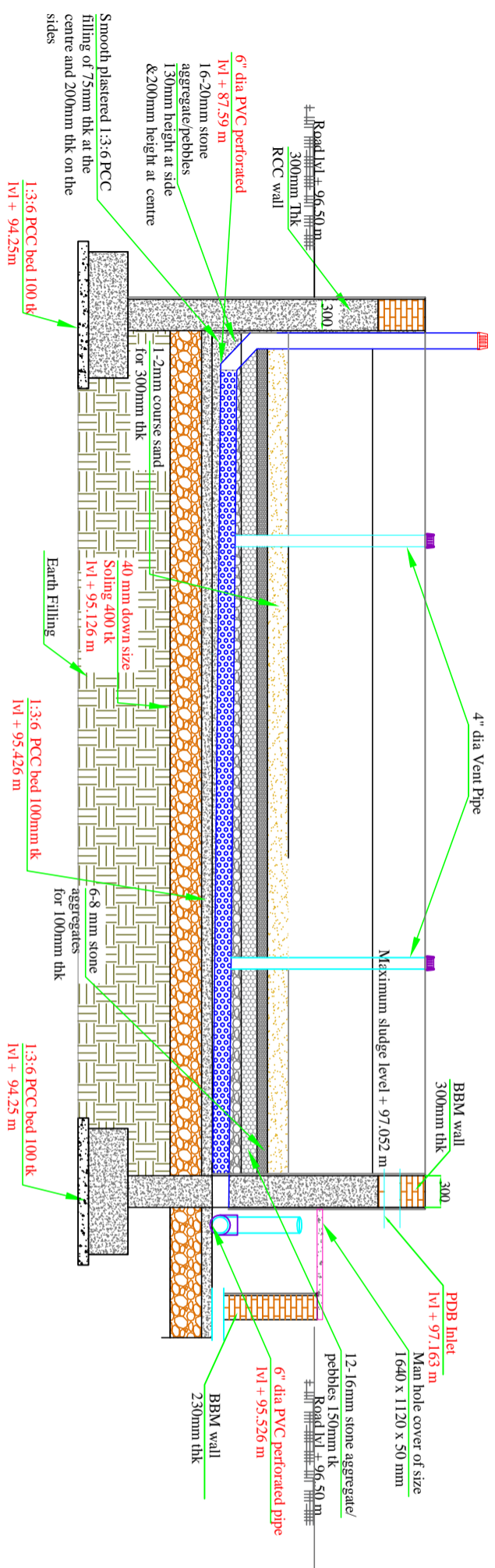
DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Suman	Praveen, N	Praveen, N

DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018

SCALE: NTS SHEET 14 OF 27 SHEETS



Cross Section of A-A



Cross Section of B-B

BAGRU FSTP

NOTES

- All dimensions are in mm, unless mentioned otherwise.
- All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission.
- Level of Existing Ground Level - 96.5
- Grade of concrete proposed (M15, M20, M25). It is recommended to use Sulphate Resistance Cement (SRC).
- R: Indicates Register.
- SC: Indicates Screen Chamber.
- SR: Indicates Stabilization Reactor.
- SDP: Indicates Sludge drying Bed.
- PDDB: Indicates Planted Drying Bed.
- ST: Indicates Settler.
- AF: Indicates Amenable Filter.
- KGF: Indicates Planted Gravel Filter.
- PP: Indicates Polishing Pond.
- OR: Indicates Operator Room.
- GR: Indicates Guard Room.
- SS: Sludge Storage House.
- Use UPVC pipes (25, 40mm, 50mm, 110mm & 150 mm dia. (1", 2", 4" & 6")) which can withstand 8. Bars Marked "G" for the layout plan provided.
- For percolate treatment structures inner plastering (walls and base) of 20mm thick is considered.

REVISIONS

DATE	REMARKS	SIGNATURE

TITLE

PLANTED DRYING BED :-

Cross Section @ A-A and Cross Section @ B-B

DRG. No.
BAGRU/FSTP/CD/PDB-02

PROJECT NAME
BAGRU FSTP

CLIENT:
NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:

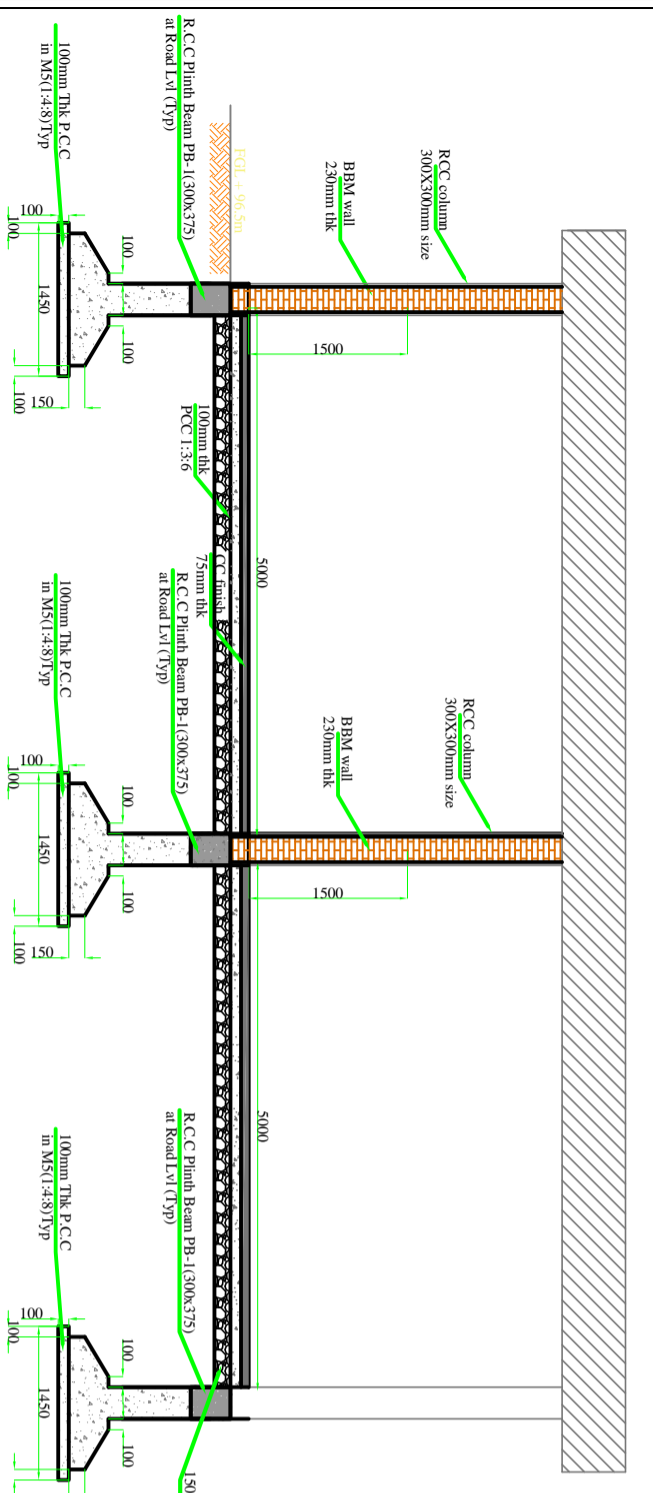
Survey No.205,
Opp. Beedi Workers Colony,
Konnaghatia Road, Bandemath
BANGALORE - 560 060
KARNATAKA.



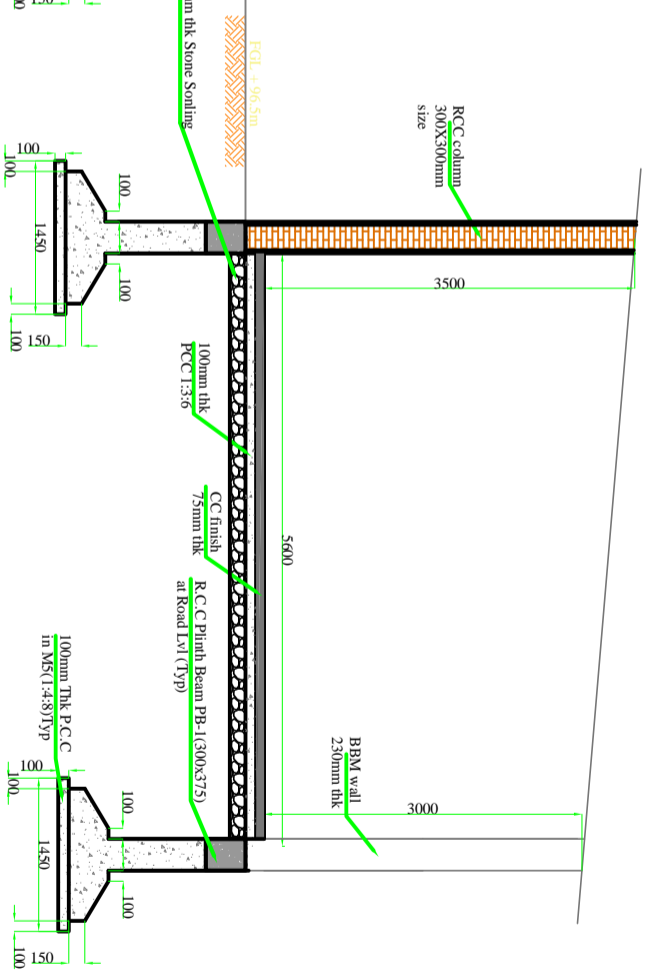
DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Suman	Praveen. N	Praveen. N

DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018

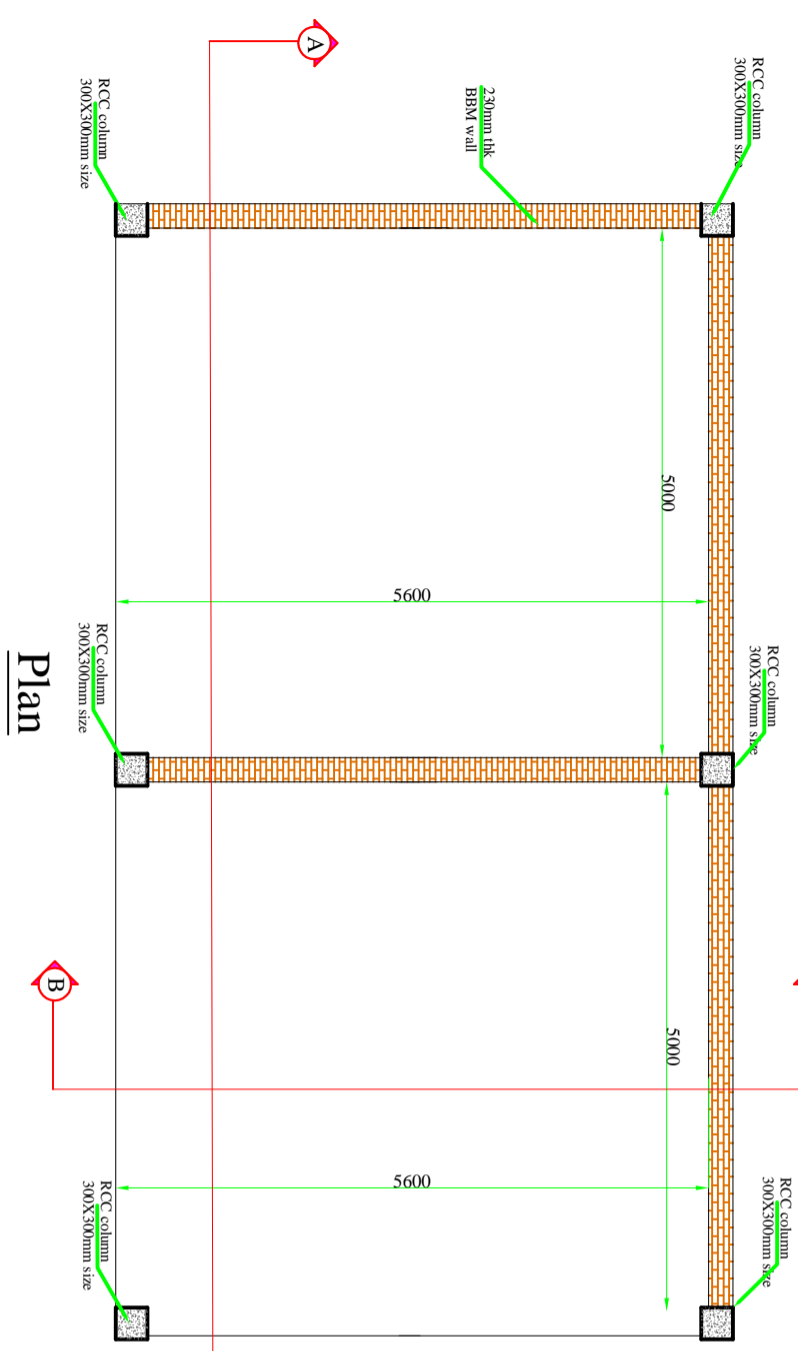
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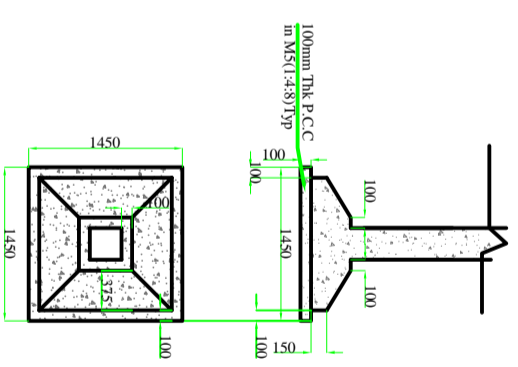
Section A-A



Section B-B



Plan



Foundation details

BAGRU FSTP

NOTES

- All dimensions are in 'mm' unless mentioned otherwise.
- All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission.
- EG.L = Existing Ground Level +96.5
- Grade of concrete proposed (M15, M20, M25). It is recommended to use Sulphate Resistance Cement (SRC).
- R.C indicates Reinforced concrete.
- S.C indicates Steel structure.
- S.R indicates Stabilization Chamber.
- SDB indicates Sludge-drying Bed.
- PDB indicates Planted Drying Bed.
- ST indicates Settler.
- AF indicates Amorphic Filter.
- PGF indicates Planted Gravel Filter.
- PP indicates Polishing Pond.
- OR indicates Operator Room.
- GR indicates Guard Room.
- SSY indicates Sludge Storage House.
- Use UPVC pipes (25.4mm, 55mm, 110mm & 150 mm dia. (1", 2", 4" & 6")) which can withstand pressure of 6kg/cm².
- Bench Mark = As per the layout plan provided.
- For perquisite treatment structures minor plastering (walls and base) of 20mm thick is considered.

REVISIONS

DATE	REMARKS	SIGNATURE

TITLE

SLUDGE STORAGE YARD :-
Plan of S.S.Y, Section A-A, Section B-B and Foundation Details

DRG. No.
BAGRU/FSTP/CD/SSY

PROJECT NAME
BAGRU FSTP

CLIENT:
NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:

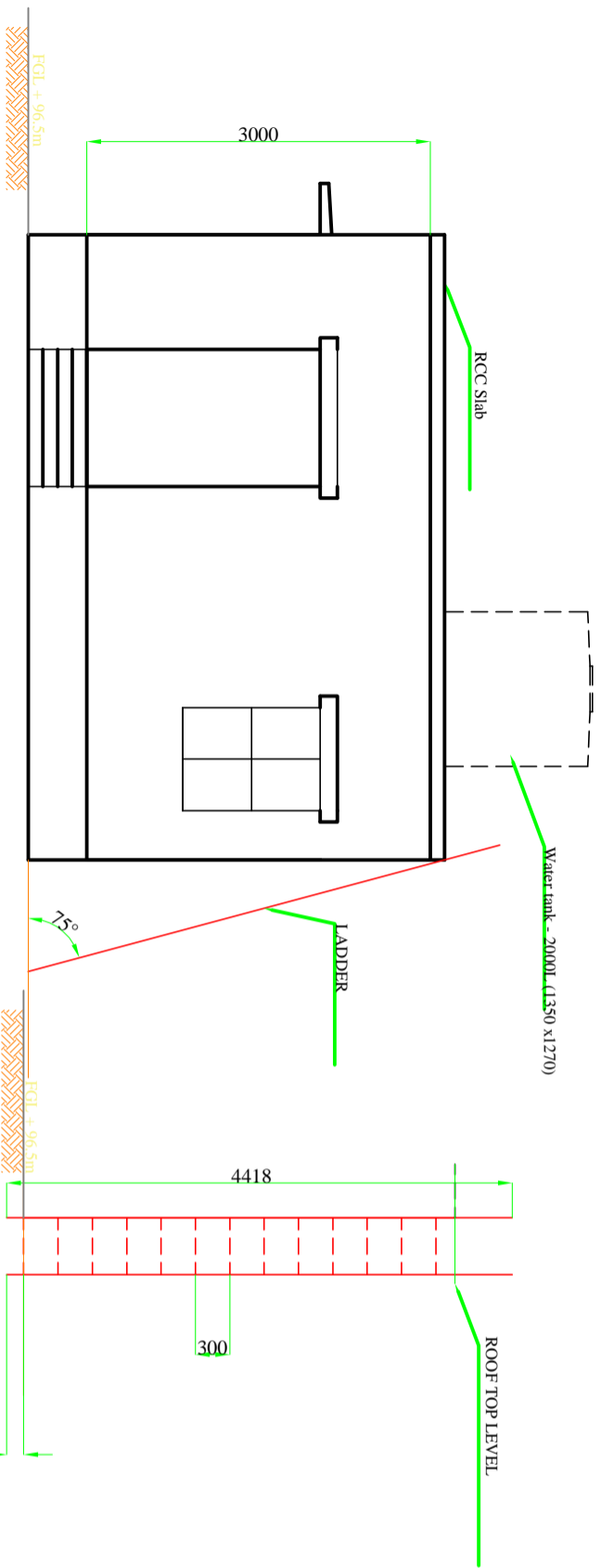
Survey No.205,
Opp. Beedi Workers Colony,
Kommaghata Road, Bandmah
BANGALORE - 560 060
KARNATAKA.



DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Suman	Praveen. N	Praveen. N

DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018

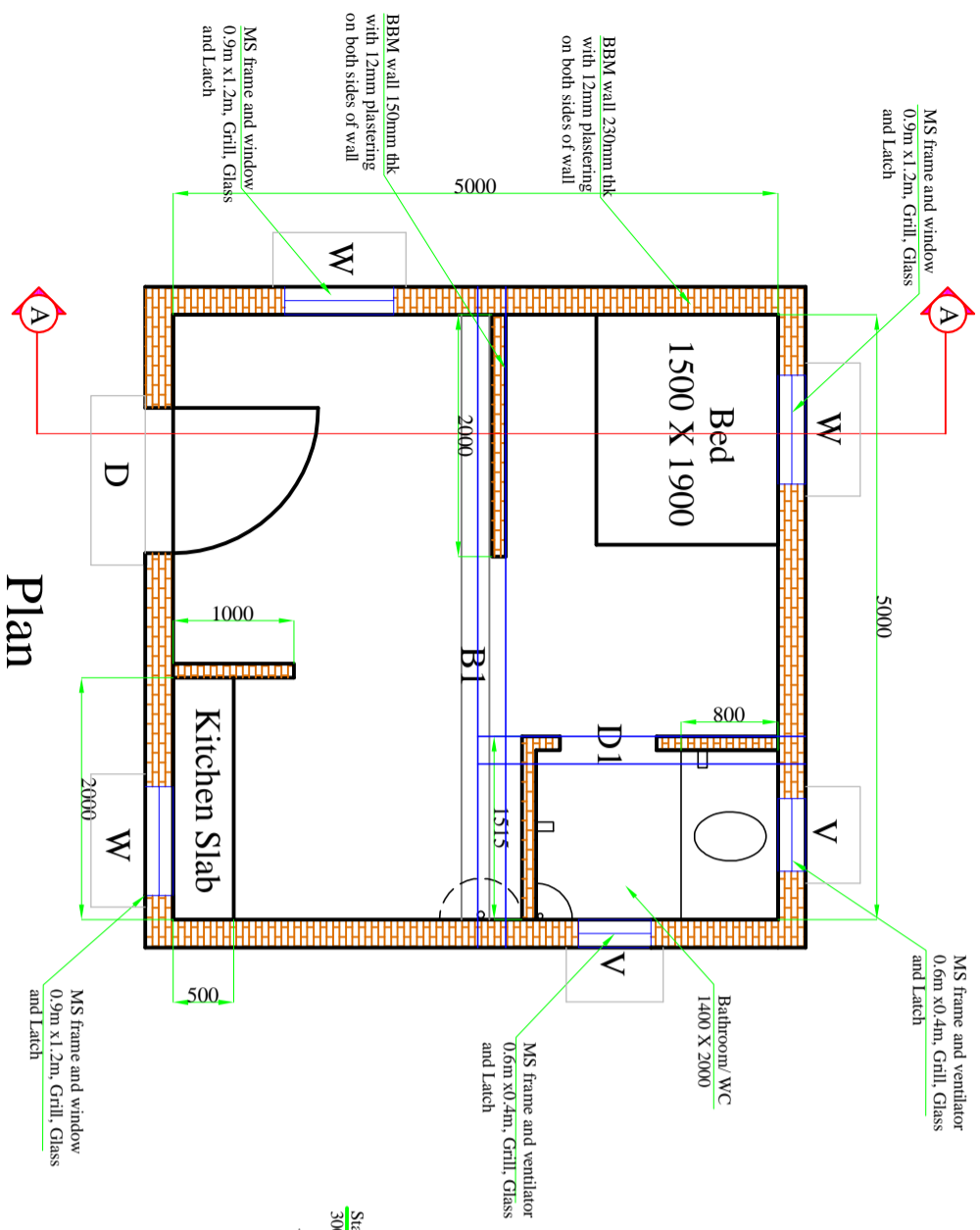
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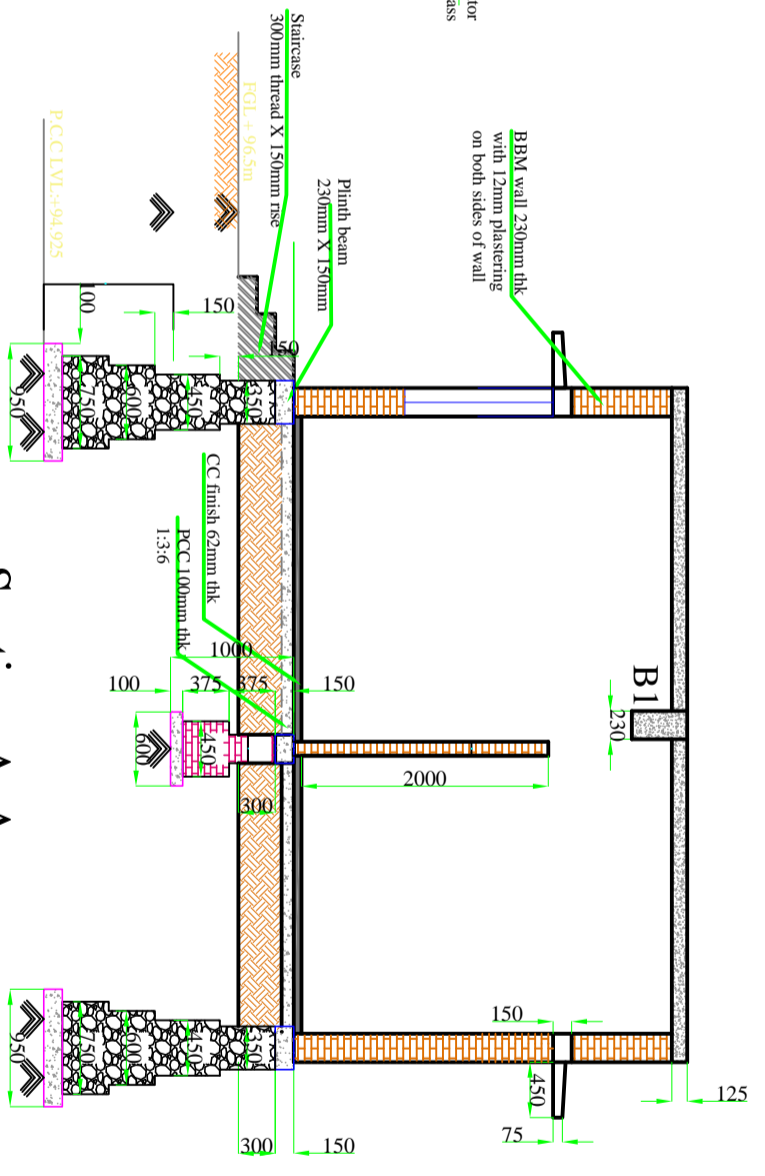
D- Door - 1200 X 2100
 D1 - Bathroom door - 800 X 1900
 W - Window - 900 X 1200
 V - Ventilator - 600 X 400
 (500 mm below bottom of the roof)

Front Elevation

LADDER

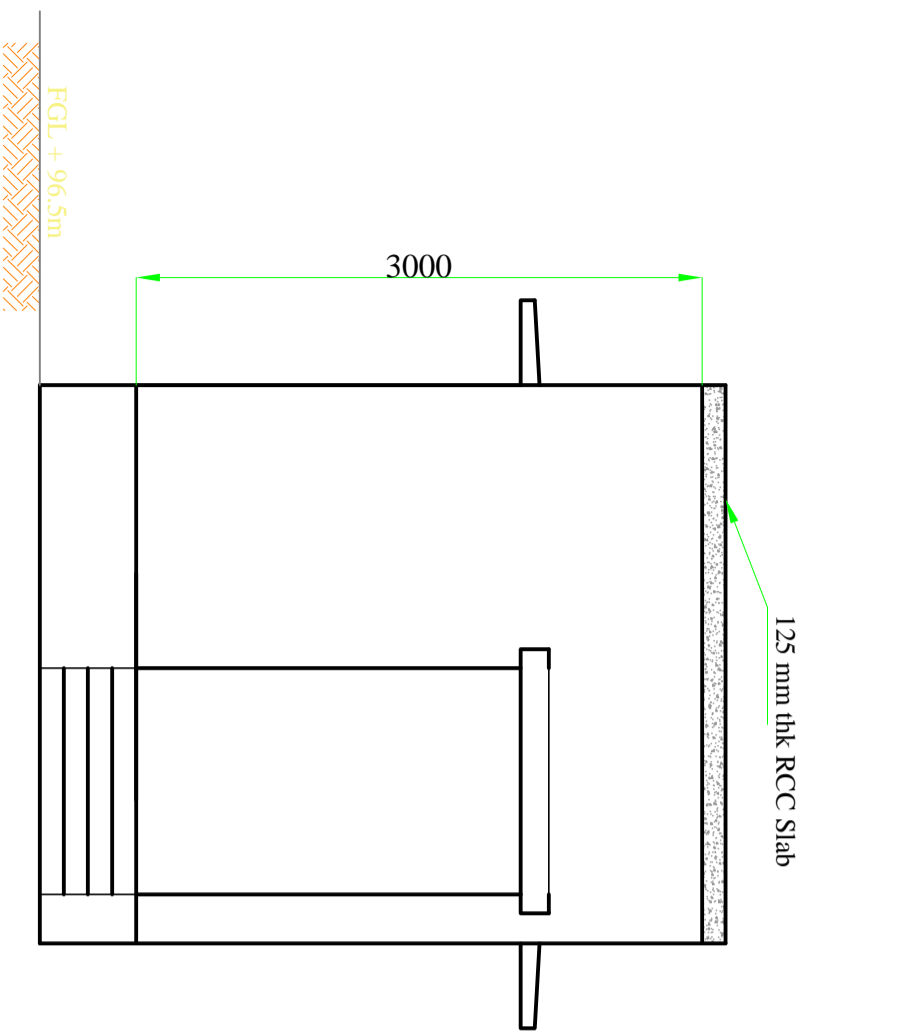


Plan

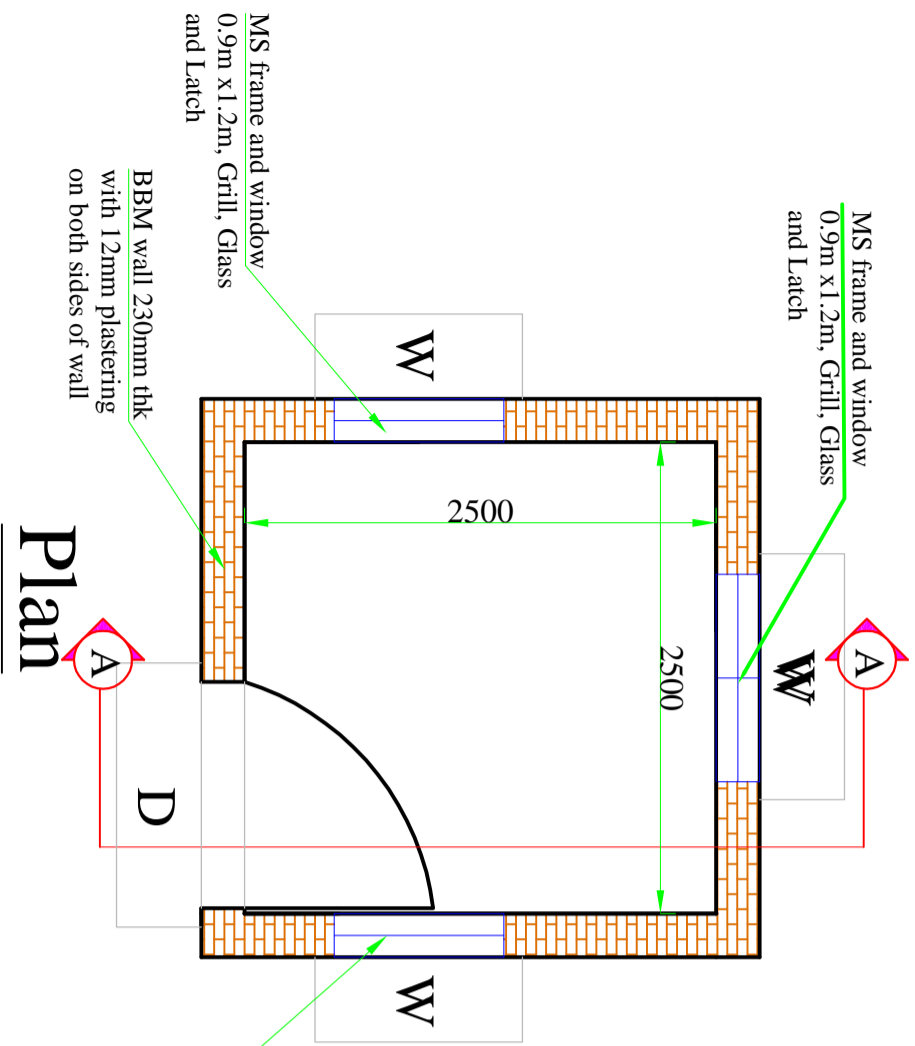


Section A-A

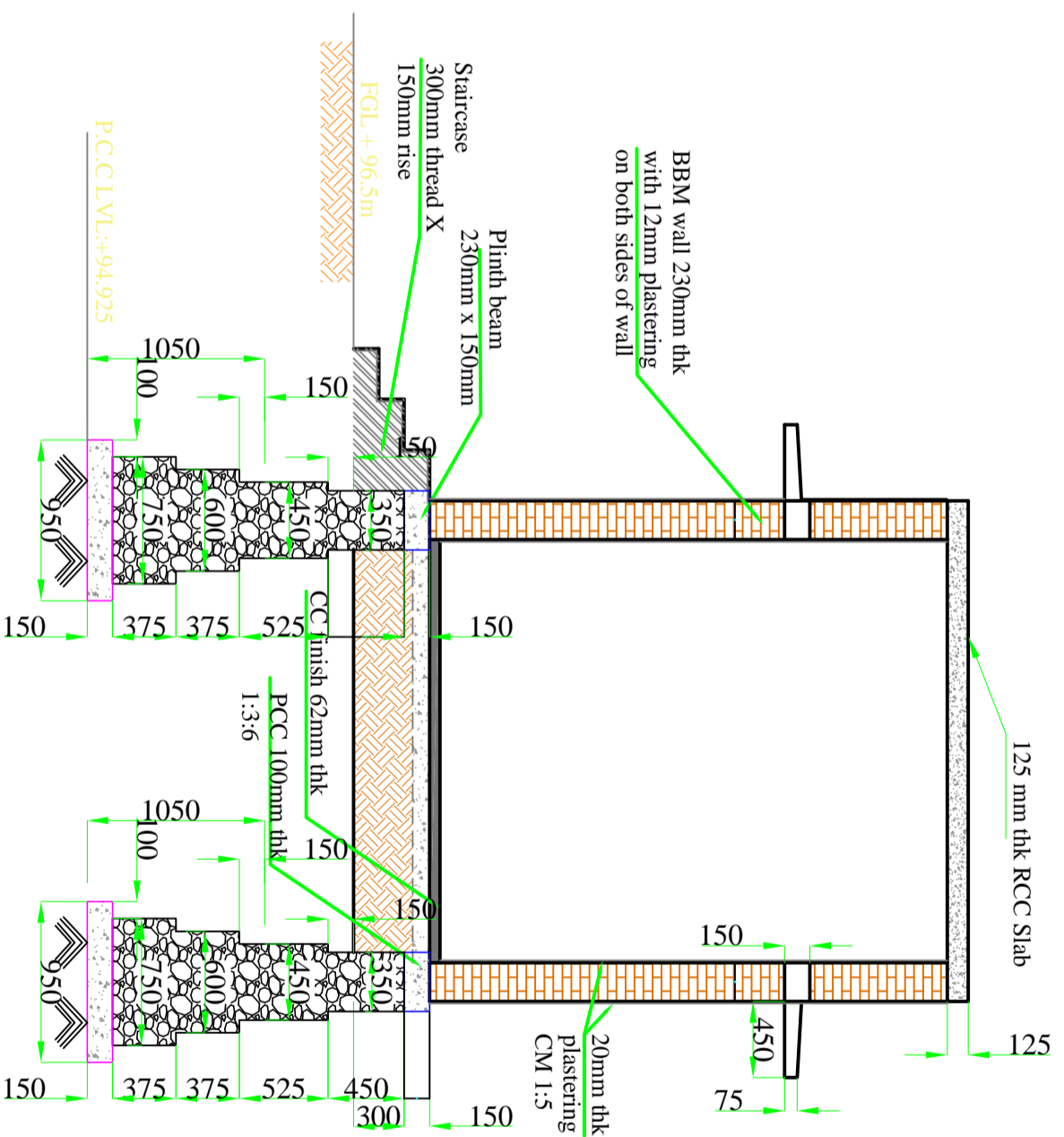
BAGRU FSTP		
NOTES		
<ol style="list-style-type: none"> All dimensions are in mm, unless mentioned otherwise. All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice. This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission. EGL = Existing Ground Level +96.5 Grade of concrete proposed (M15, M20, M25). It is recommended to use Sulphate Resistance Cement (SRC). Reinforcement (R). RC indicates Screen Chamber. SR indicates Sanitization Binocular. SDB indicates Sludge drying Bed. PDG indicates Planted Drying Bed. ST indicates Sinter. AF indicates Aeration Filter. PGF indicates Planted Gravel Filter. PP indicates Polishing Pond. OR indicates Operator Room. GR indicates Guard Room. SSY indicates Storage House. Use UPVC pipes (25.4mm, 55mm, 110mm & 150 mm dia. (1", 2", 4" & 6")) which can withstand pressure of 6kg/cm². Brick work - As per the layout plan provided. For the treatment structures later plastering (walls and base) of 20mm thick is considered. 		
REVISIONS		
DATE	REMARKS	SIGNATURE
TITLE OPERATOR ROOM :- Front Elevation, Plan of OR and Section A-A		
DRG. No. BAGRU/FSTP/CD/OR		
PROJECT NAME BAGRU FSTP		
CLIENT: NIUA, DLB and Nagar Palika Bagru		
CLIENTS CONSULTANT: Survey No.205, Opp. Beedi Workers Colony, Komanghata Road, Bandenah BANGALORE - 560 060 KARNATAKA.		
DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Suman	Praveen N	Praveen N
DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018
SCALE: NTS		SHEET 17 OF 27 SHEETS



Front Elevation



Plan



Section A-A

- D - Door - 1200 X 2100
- D1 - Bathroom door - 800 X 1900
- W - Window - 900 X 1200

BAGRUFSTP

NOTES

1. All dimensions are in mm, unless mentioned otherwise.
2. All dimensions are checked and correlated with the architectural drawings and any discrepancy or omission shall be brought to the notice.
3. This is the property of BAGRU/CDP & is not to be copied or produced.
4. ETC (where without client permission, level 496.5)
5. Grade of concrete proposed (M15, M20, M25). It is recommended to use Sulphate Resistance Cement (SRC).
6. 'R' indicates Register.
7. 'SC' indicates Screen Chamber.
8. 'SR' indicates Stabilizer Reactor.
9. 'SDB' indicates Sludge drying Bed.
10. 'PDB' indicates Planted Drying Bed.
11. 'SF' indicates Settler.
12. 'AF' indicates Aeration Filter.
13. 'PGF' indicates Planted Gravel Filter.
14. 'OR' indicates Operator Room.
15. 'SV' indicates Storage Room.
16. 'SSV' indicates Storage Tank.
17. Use 1:1 PCC (1:3:6) for 50mm, 50mm, 110mm & 150mm dia (1'-2", 4" & 6") which can withstand pressure of 4kg/cm².
18. Bench Mark = As per the layout plan provided.
19. For percolate treatment structures inner plastering (walls and base) of 20mm thick is considered.

REVISIONS

DATE	REMARKS	SIGNATURE

TITLE
GUARD ROOM :-
Plan of GR, Front Elevation and Section A-A

DRG. No.
BAGRU/FSTP/CD/GR
PROJECT NAME
BAGRUFSTP

CLIENT:
NIUA, DLB and Nagar Palika Bagru

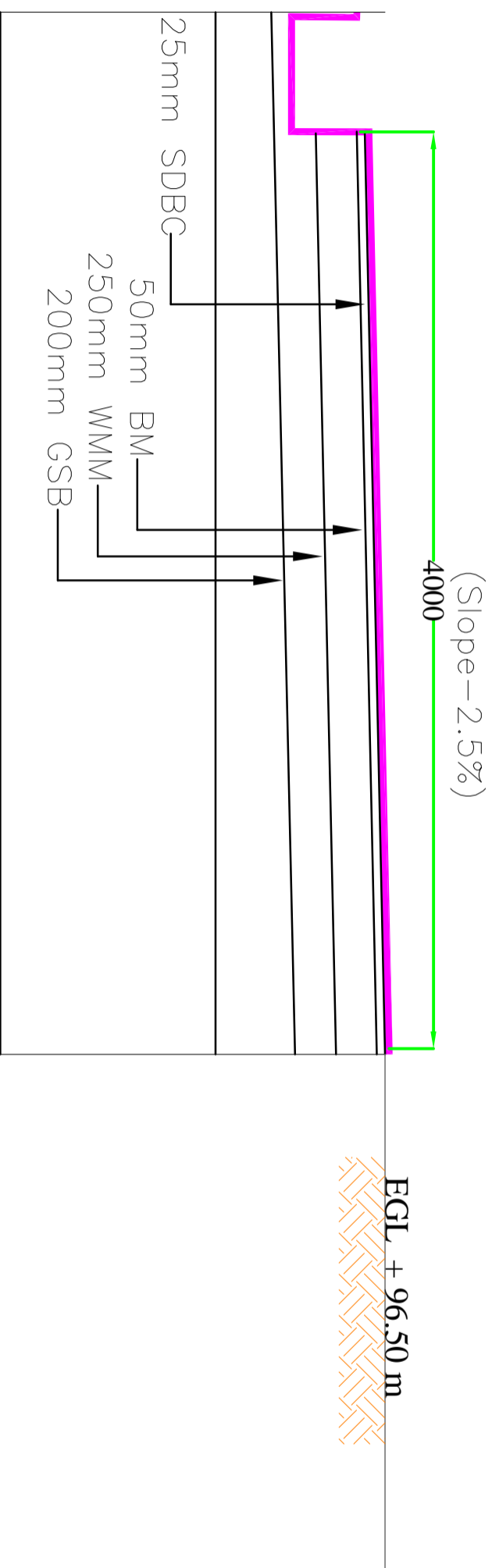
CLIENTS CONSULTANT:
Survey No. 205,
Opp. Beedi Workers Colony,
Konnaghatta Road, Bandemath
BANGALORE - 560 060
KARNATAKA.



DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Sumran	Praveen. N	Praveen. N
DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018
SCALE: NTS		
SHEET 18 OF 27 SHEETS		

PROPOSED CARRIAGE WAY

Black Top



TYPICAL CROSS SECTION OF BLACKTOP ROAD

SDBC :- Semi Dense Bituminous Concrete

BM :- Bituminous Maccadam

WMM :- Wet Mix Maccadam

GSB :- Granular sub-base

BAGRUFSTP

NOTES

- All dimensions are in 'mm' unless mentioned otherwise.
- All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission.
- EGL = Existing Ground Level +96.5
- Grade of concrete proposed (M15, M20 M25). It is recommended to use Sulphate Resistance concrete (SR Concrete).
- SR indicates Siren Chamber.
- SRB indicates Stabilization Reactor
- SDB indicates Sludge drying Bed
- TPDB indicates Planted Drying Bed
- ST indicates Settler
- AF indicates Anaerobic Filter
- TFG indicates Planted Gravel Filter
- PP indicates Polishing Pond
- OR indicates Operator Room
- GR indicates Guard Room
- SSS Sludge Storage House
- Use UPVC pipes (254mm, 50mm, 110mm & 150 mm dia. (1", 2", 4" & 6")) which can withstand pressure of 8kg/cm².
- Bench Mark = As per the layout plan provided
- For pecciate treatment structures inner plastering (walls and base) of 20mm thick is considered.

REVISIONS

REVISIONS	SIGNATURE
DATE	

TITLE

ROAD :-
Typical Cross Section of Blacktop Road

DRG. No.
BAGRUFSTP/CD/ROAD
PROJECT NAME
BAGRUFSTP

CLIENT:

NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:

Survey No.205,
Opp. Beedi Workers Colony,
Kommaghatra Road, Bandemath
BANGALORE - 560 060
KARNATAKA.

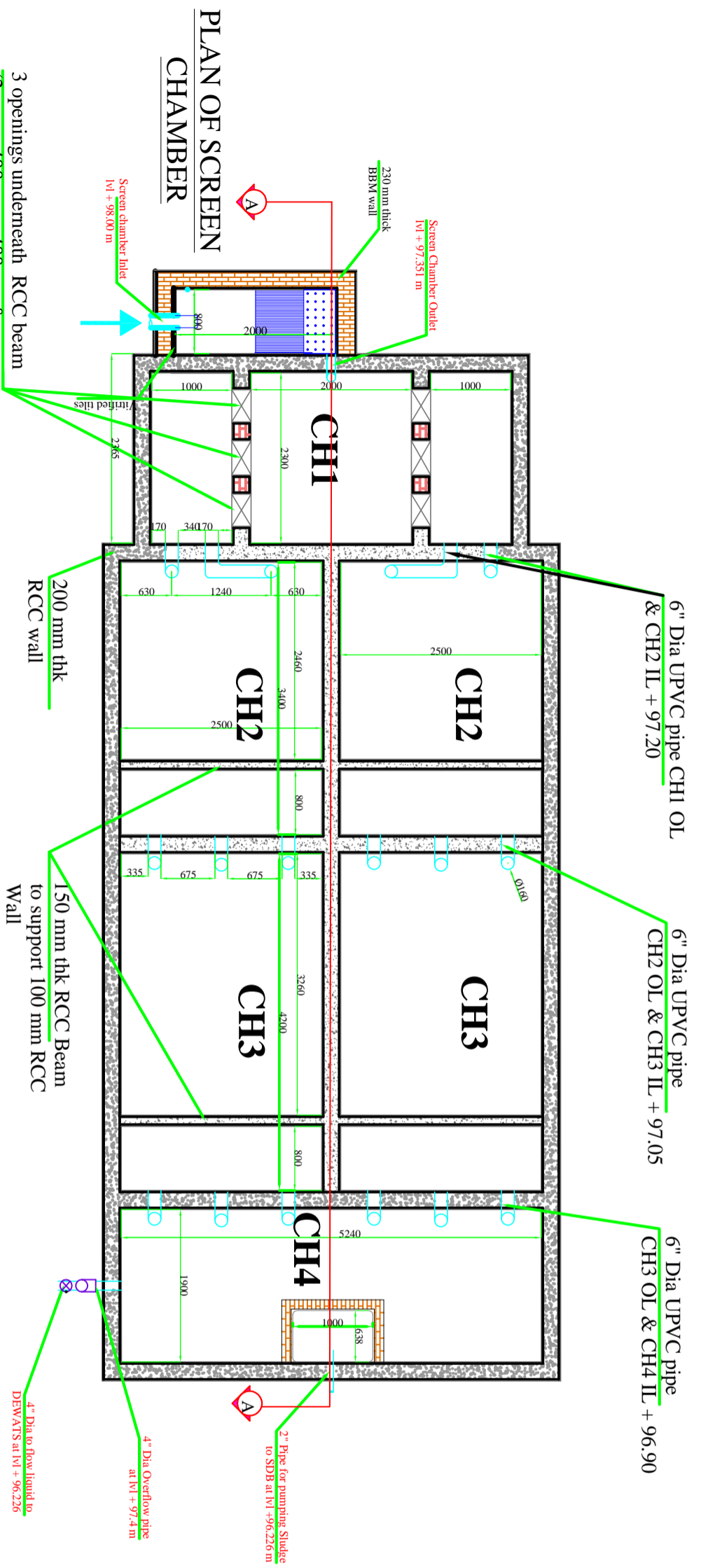


Consulting firm for
Design and
Construction
Society

DRAWN BY: Ritesh Kumar Suman
CHECKED BY: Praveen N
APPROVED BY: Praveen N

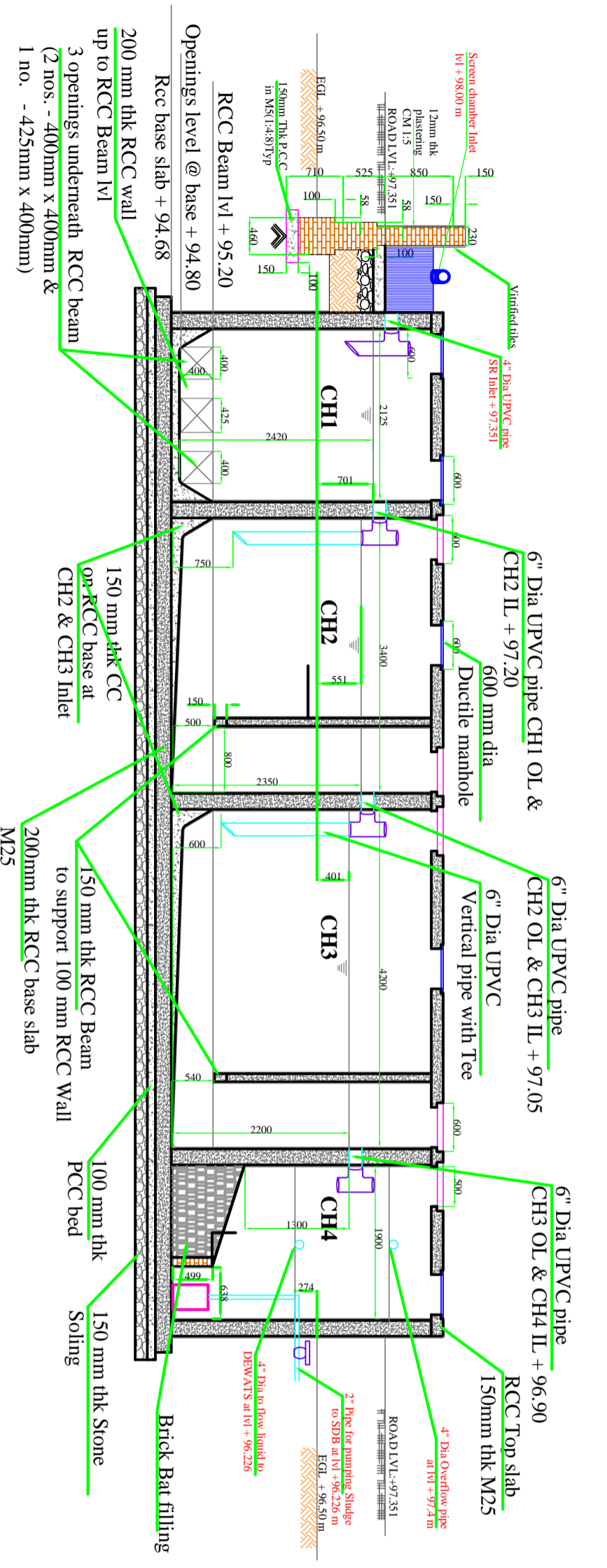
DATE: 22/02/2018
DATE: 22/02/2018
DATE: 22/02/2018

SCALE: NTS SHEET 19 OF 27 SHEETS



3 openings underneath RCC beam
(2 nos. - 400mm x 400mm &
1 no. - 425mm x 400mm)

PLAN OF STABILISATION REACTOR



CROSS SECTION @ A-A

BAGRU FSTP

NOTES

- All dimensions are in mm, unless mentioned otherwise.
- All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission.
- EGL = Existing Ground Level +96.5
- Grade of concrete proposed (M15, M20, M25). It is recommended to use Sulphate Resistance Cement (SRC).
- R indicates Register.
- SC indicates Screen Chamber.
- SR indicates Stabilisation Reactor.
- SDB indicates Sludge Storage Bed.
- PDP indicates Planted Drying Bed.
- ST indicates Slatier.
- AF indicates Anaerobic Filter.
- PGF indicates Planted Gravel Filter.
- PP indicates Polishing Pond.
- OR indicates Operator Room.
- GR indicates Guard Room.
- SSV indicates Sludge Storage House.
- Use UPVC pipes (25-4mm, 55mm, 110mm & 150 mm dia. (1", 2", 4" & 6")) which can withstand pressure of 8kg/cm².
- Bench Mark = As per the layout plan provided.
- For percolate treatment structures inner plastering (walls and bases) of 20mm thick is considered.

REVISIONS

NO.	REVISIONS	SIGNATURE

TITLE
INTEGRATED SCREEN CHAMBER AND
STABILIZATION REACTOR :-
Plan of SC&SR, Cross Section @ A-A

DRG. No.
BAGRU/FSTP/CD/SC&SR

PROJECT NAME
BAGRU FSTP

CLIENT:
NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:

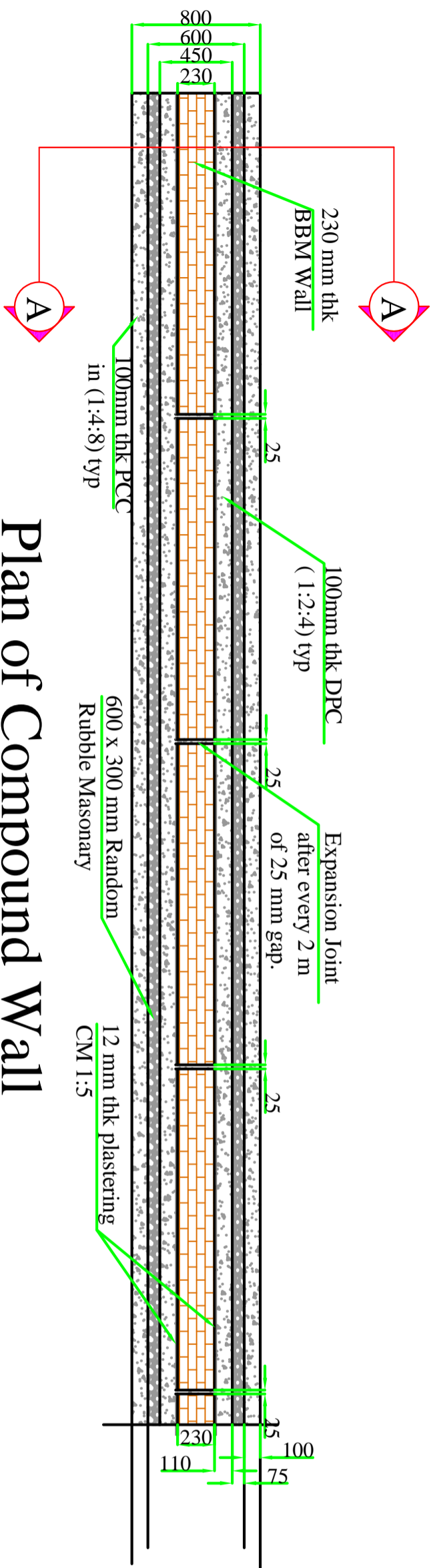
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Kommaghatha Road, Bandemath
BANGALORE - 560 060
KARNATAKA



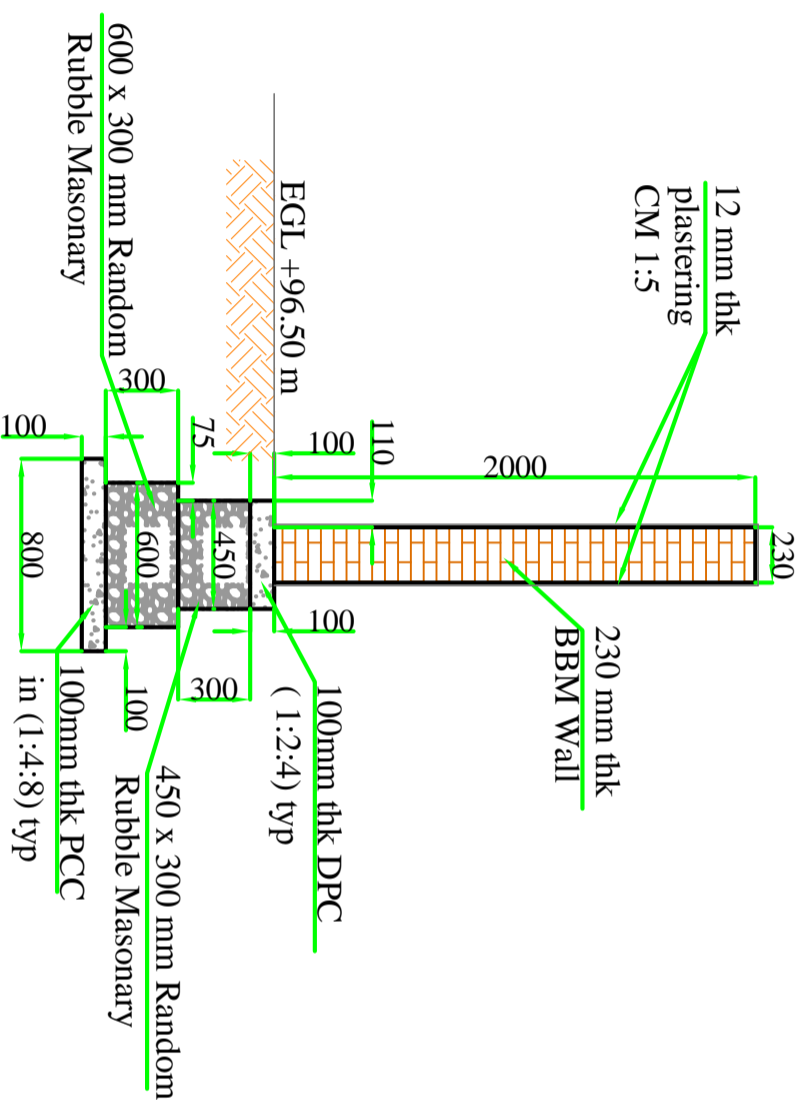
DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Suman	Praveen, N	Praveen, N

DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018

SCALE: NTS SHEET 20 OF 27 SHEETS



Plan of Compound Wall



Cross section @ A-A

NOTES

- All dimensions are in mm, unless mentioned otherwise.
- All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission.
- EGL = Existing Ground Level +96.5
- Grade of concrete proposed (M15, M20 M25). It is recommended to use Sulphate Resistance Cement (SRC).
- SR indicates Register.
- SC indicates Stabilization Chamber.
- SR indicates Stabilization Reactor.
- PDB indicates Planted Drying Bed.
- ST indicates Settler.
- AP indicates Anaerobic Filter.
- PGF indicates Planted Gravel Filter.
- TP indicates Polishing Pond.
- OR indicates Operator Room.
- GR indicates Guard Room.
- SSY Sludge Storage House.
- Use UPVC pipes (25-4mm, 55mm, 110mm & 150 mm dia. (1", 2", 4" & 6")) which can withstand pressure of 8kg/cm².
- Bench Mark = As per the layout plan provided.
- For percolate treatment structures inner plastering (walk and base) of 20mm thick is considered.

REVISIONS

NO.	REVISIONS	SIGNATURE

TITLE

COMPOUND WALL :-
Plan of Compound Wall and Cross Section @ A-A

DRG. No.
BAGRU/FSTP/CD/CW

PROJECT NAME
BAGRU FSTP

CLIENT:
NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:

Survey No.205,
Opp. Beedi Workers Colony,
Kommaghatta Road, Bandenath
BANGALORE - 560 060
KARNATAKA



Survey No.205,
Opp. Beedi Workers Colony,
Kommaghatta Road, Bandenath
BANGALORE - 560 060
KARNATAKA

DRAWN BY Ritesh Kumar Suman

CHECKED BY Praveen, N

APPROVED BY Praveen, N

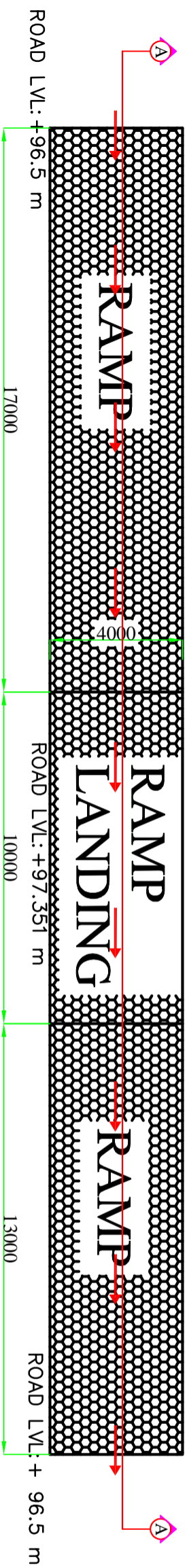
DATE 22/02/2018

DATE 22/02/2018

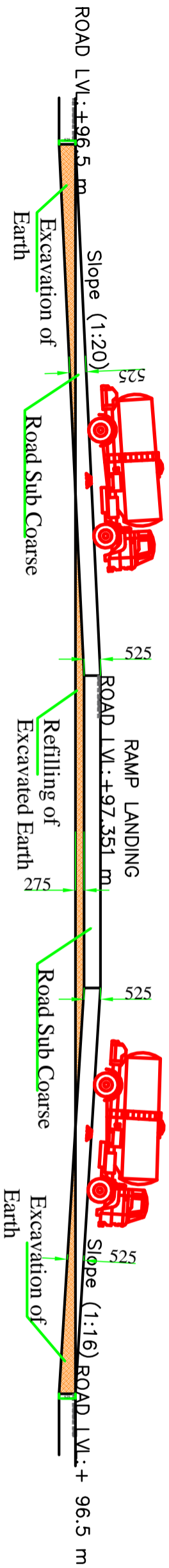
DATE 22/02/2018

SCALE: NTS

SHEET 21 OF 27 SHEETS



PLAN OF RAMP



CROSS SECTION @ A-A

BAGRU FSTP

NOTES

- All dimensions are in mm, unless mentioned otherwise.
- All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission.
- HQL = Existing Ground Level +96.5
- Grade of concrete proposed (M15, M20 M25). It is recommended to use Sulphate Resistance Cement (SRC).
- IR indicates Register.
- CR indicates Chamber.
- SR indicates Stabilization Reactor
- PDB indicates Sludge drying Bed
- ST indicates Sludge Drying Bed
- AP indicates Aerator
- PGF indicates Planted Gravel Filter
- OPR indicates Operator Room
- GR indicates Guard Room
- SSY Sludge Storage House
- Use UPVC pipes (25.4mm, 50mm, 100mm & 150 mm dia. (1", 2", 4" & 6")) which can withstand pressure of 8kg/cm².
- Bench Mark = As per the layout plan provided
- For percolator treatment structures inner plastering (walls and base) of 20mm thick is considered.

REVISIONS	SIGNATURE
DATE	

TITLE
RAMP :-
Plan of Ramp and Cross Section @ A-A

DRG. No.
BAGRU/FSTP/CD/RAMP
PROJECT NAME
BAGRU FSTP

CLIENT:
NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:

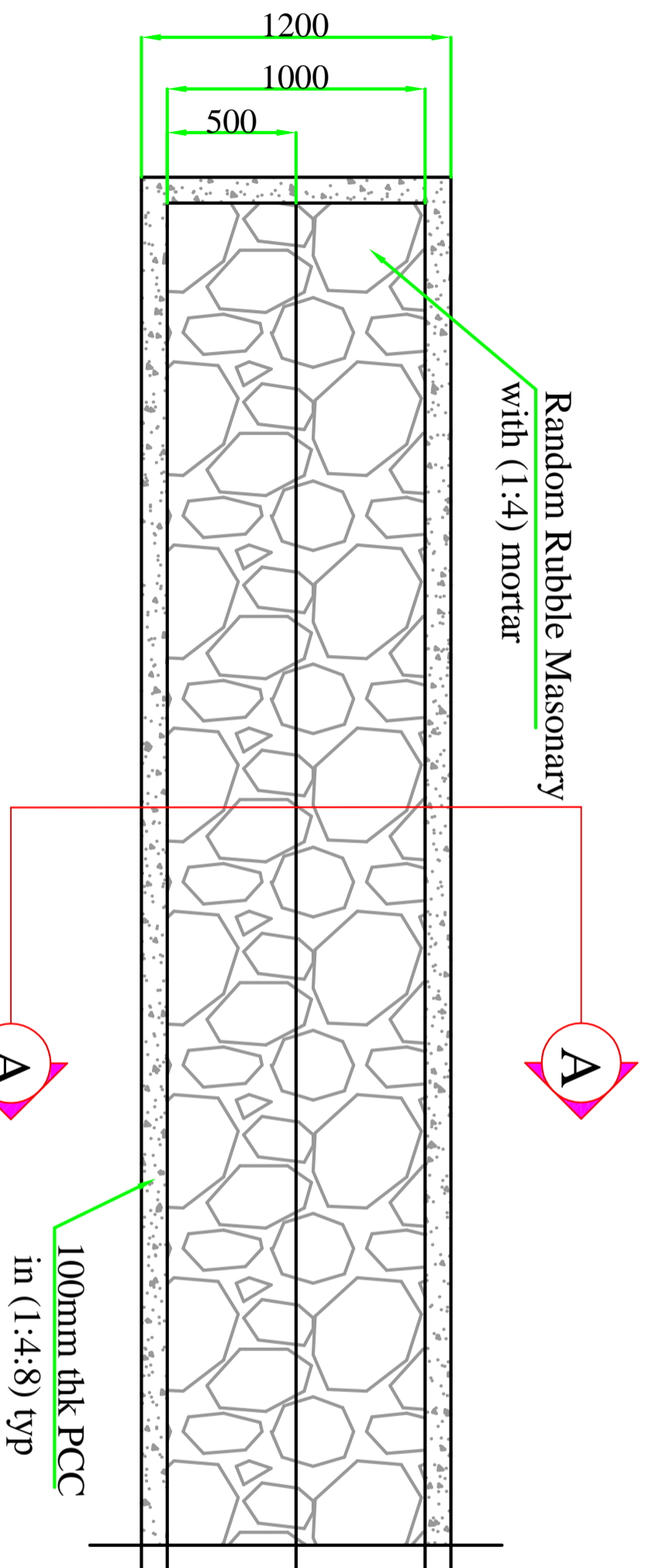
Survey No.205,
Opp. Beedi Workers Colony,
Kommaghatta Road, Bandemath
BANGALORE - 560 060
KARNATAKA



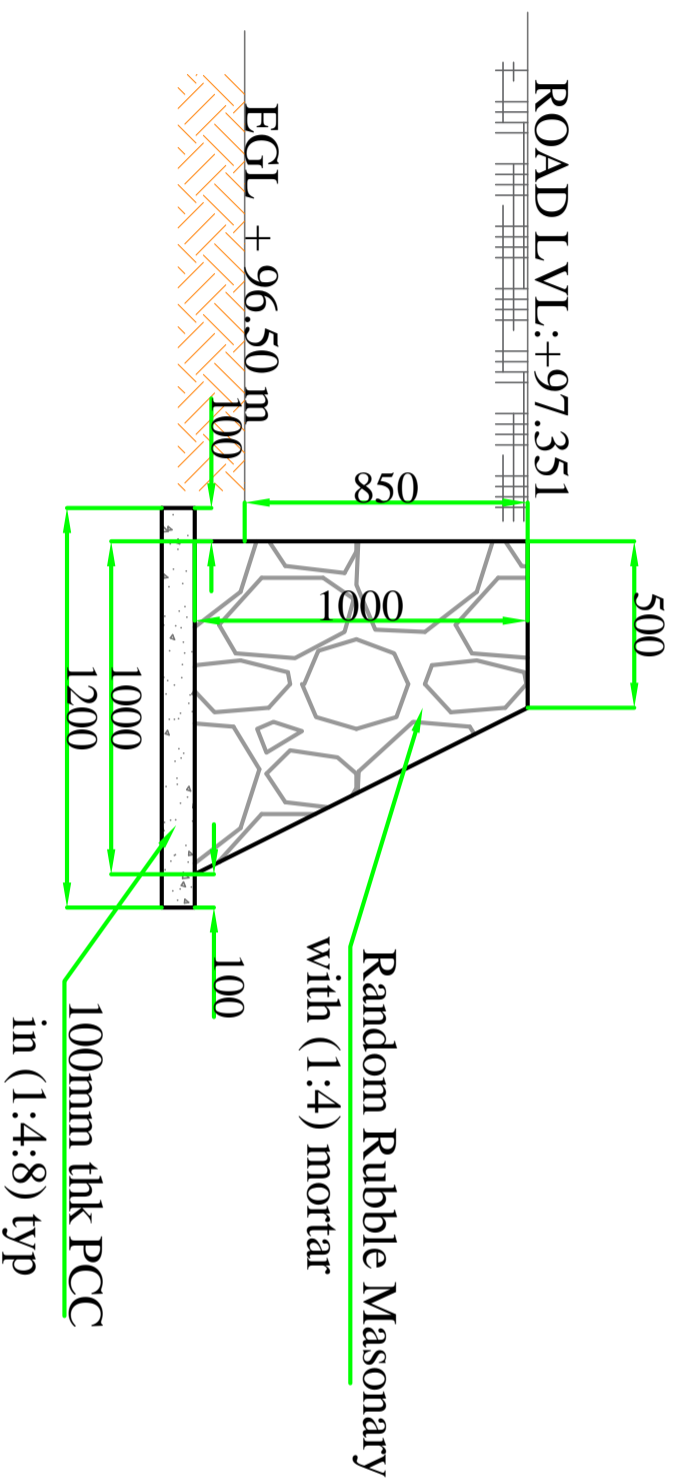
DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Suman	Praveen, N	Praveen, N

DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018

SCALE: NTS SHEET 22 OF 27 SHEETS



Plan of Retaining Wall



Cross section @ A-A

BAGRU FSTP

NOTES

- All dimensions are in mm, unless mentioned other wise.
- All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BORDA, CDD & is not to be copied or produced anywhere without their permission.
- CDL = Existing Ground Level, 496.5
- Ground level of concrete proposed (M15, M20, M25). It is recommended to use Sulphate Resistance Cement (SRC).
- SR = indicates Register.
- R = indicates Register.
- SC = indicates Screen Chamber.
- SR = indicates Stabilization Retainer.
- SDB = indicates Sludge drying Bed.
- PPD = indicates Planted Drying Bed.
- ST = indicates Settler.
- AF = indicates Anaerobic Filter.
- PGF = indicates Planted Gravel Filter.
- PP = indicates Polishing Pond.
- OR = indicates Operator Room.
- OR = indicates Guard Room.
- SSR = Sludge Storage Room.
- Use UPVC pipes (25, 40mm, 55mm, 110mm & 150 mm dia (1", 2", 4" & 6")) which can withstand 1000 kg/cm² pressure & as per the layout plan provided.
- Bench Mark = As per the layout plan provided.
- For pre-cast treatment structures inner plastering (walls and base) of 20mm thick is considered.

REVISIONS

DATE	REMARKS	SIGNATURE

TITLE

RETAINING WALL :-
Plan of Retaining wall and Cross Section @ A-A

DRG. No.
BAGRU/FSTP/CD/RW
PROJECT NAME
BAGRU FSTP

CLIENT:
NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:

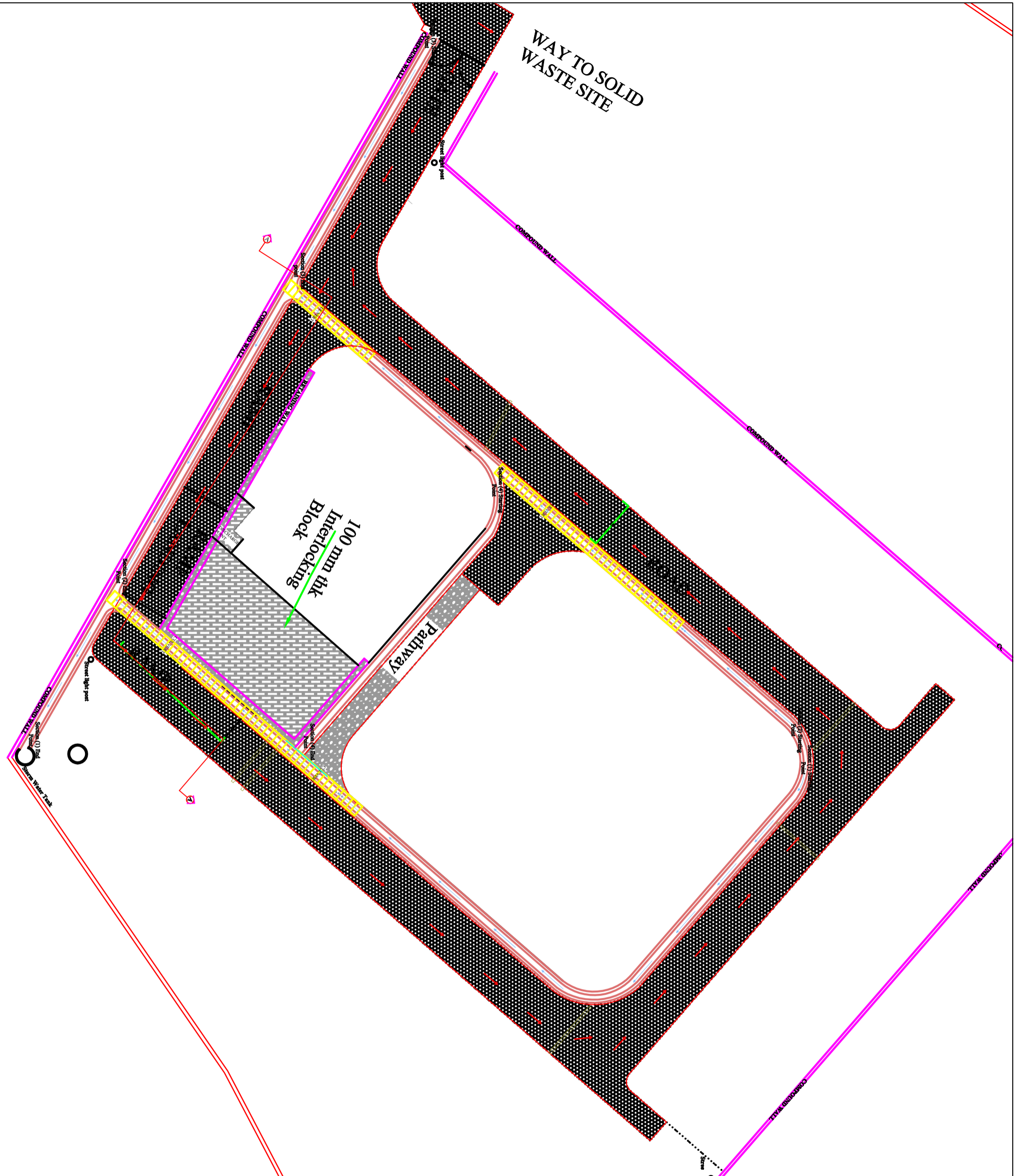
Survey No.205,
Opp. Beedi Workers Colony,
Kommaghatata Road, Bandemath
BANGALORE - 560 060
KARNATAKA.



DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Suman	Praveen, N	Praveen, N
DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018

SCALE: NTS SHEET 23 OF 27 SHEETS

WAY TO SOLID WASTE SITE



BAGRU FSTP

NOTES

1. All dimensions are in mm, unless mentioned otherwise.
2. All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
3. This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission.
4. E.O.L. = Existing Ground Level +96.5
5. Grade of concrete proposed (M15, M20, M25). It is recommended to use Sulphate Resistance Cement (SRCC).
6. IP: Indicates Register Chamber
7. SR: Indicates Stabilization Reactor
8. SDB: Indicates Sludge drying Bed
9. PDB: Indicates Planted Drying Bed
10. ST: Indicates Settler
11. AF: Indicates Anaerobic Filter
12. PGF: Indicates Planted Gravel Filter
13. OP: Indicates Operator Room
14. OR: Indicates Refreshing Pond
15. GR: Indicates Guard Room
16. SSS: Sludge Storage House
17. U: Use UPVC pipes (25-4mm, 55mm, 110mm & 150 mm dia. (1", 2", 4" & 6") which can withstand pressure of 6kg/cm².
18. Bench Mark = As per the layout plan provided
19. For percolate treatment structures inner plastering (walls and base) of 20mm thick is considered.

REVISIONS

REVISIONS	SIGNATURE

TITLE
STORM WATER DRAINING :-
Plan of Storm Water Drain

DRG. No.
BAGRU/FSTP/CD/SWD-01

PROJECT NAME
BAGRU FSTP

CLIENT:
NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:

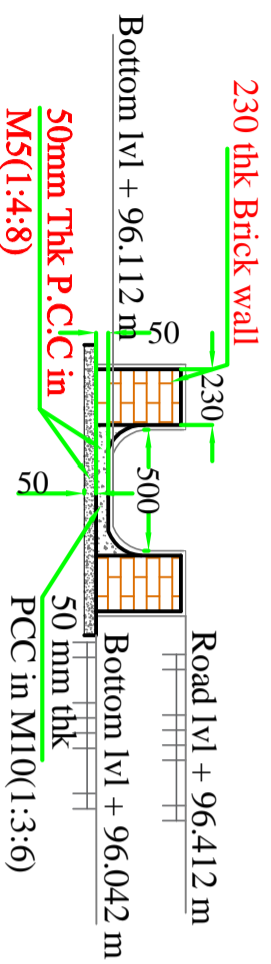
Survey No.205,
Opp. Beedi Workers Colony,
Kommaghatta Road, Bandemath
BANGALORE - 560 060
KARNATAKA



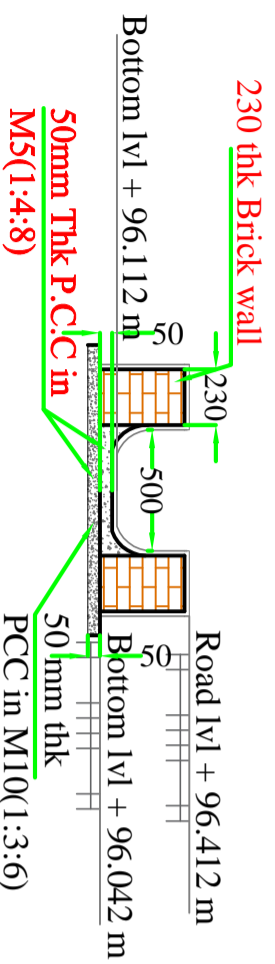
DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Suman	Praveen, N	Praveen, N

DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018

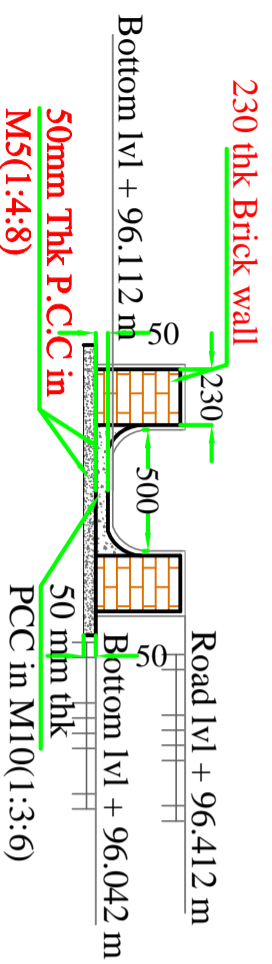
SCALE: NTS SHEET 24 OF 27 SHEETS



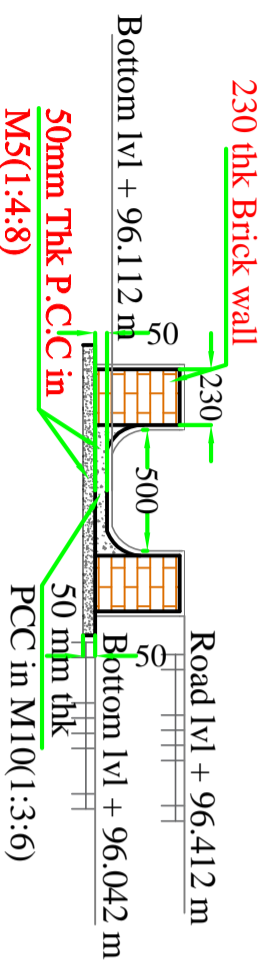
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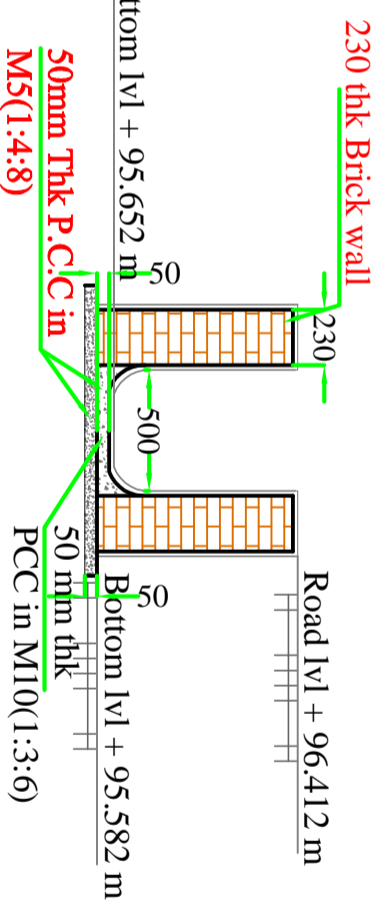
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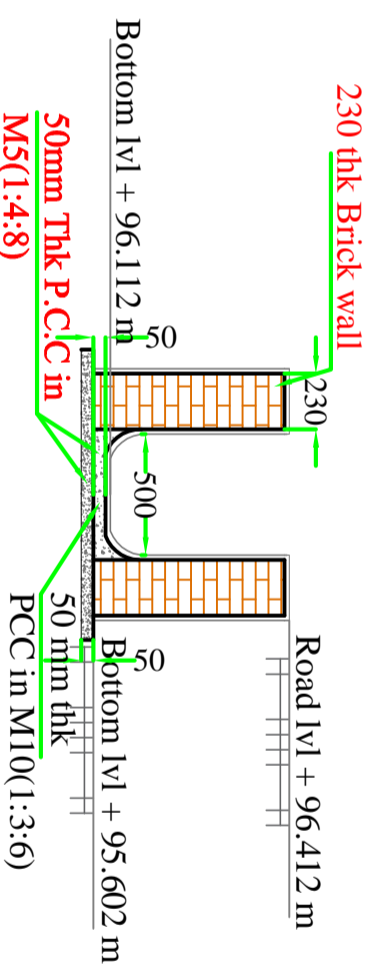
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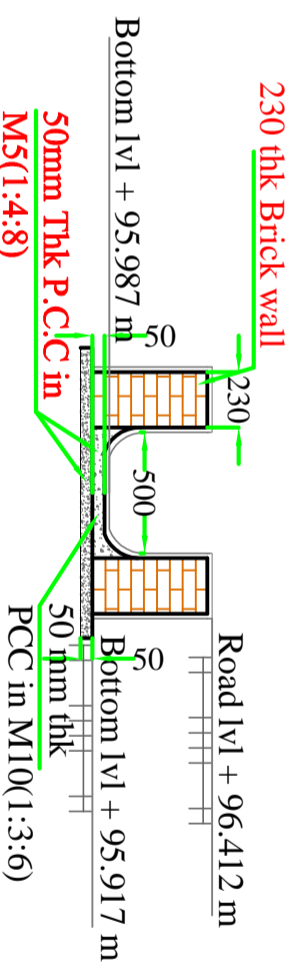
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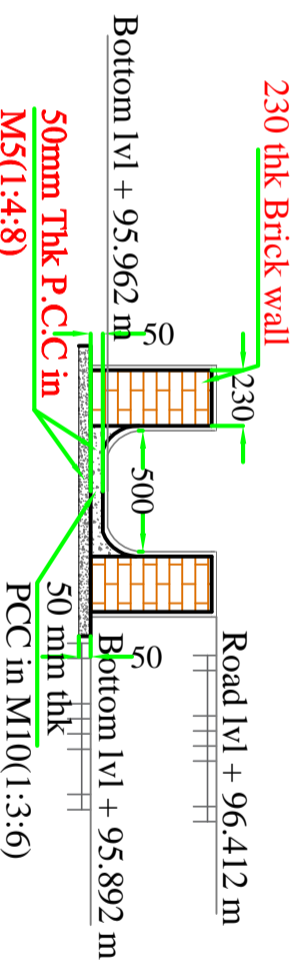
Section (1) End Point



Section (2) End Point



Section (3) End point



Section (4) End Point

BAGRUFSTP

NOTES

- All dimensions are in mm, unless mentioned otherwise.
- All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BORDA/CDD & is not to be copied or produced anywhere without their permission.
- E.O.L. = Existing Ground level -96.5
- Grade of concrete proposed (M15, M20, M25). It is recommended to use Sulphate Resistance concrete.
- R.C. indicates Reinforced.
- S.C. indicates Screen Chamber.
- S.R. indicates Sanitization Receiver.
- SDB indicates Sludge drying Bed.
- PDB indicates Planted Drying Bed.
- ST indicates Settler.
- AF indicates Anaerobic Filter.
- RF indicates Rotted Gravel Filter.
- PP indicates Polishing Pond.
- OR indicates Operator Room.
- GR indicates Guard Room.
- SSS indicates Storage House.
- Use D.P.V.C pipes (25, 50mm, 50mm, 110mm & 150 mm dia (1' 2", 4" & 6") which can withstand pressure 8kg/cm² for the layout plan provided.
- Precaution should be taken for the layout plan provided.
- For percolate treatment structures finer plastering (walls and base) of 20mm thick is considered.

REVISIONS

DATE	REMARKS	SIGNATURE

TITLE

STORM WATER DRAINING :-
Section of Storm Water Drain

DRG. No.
BAGRU/FSTP/CD/SWD-02

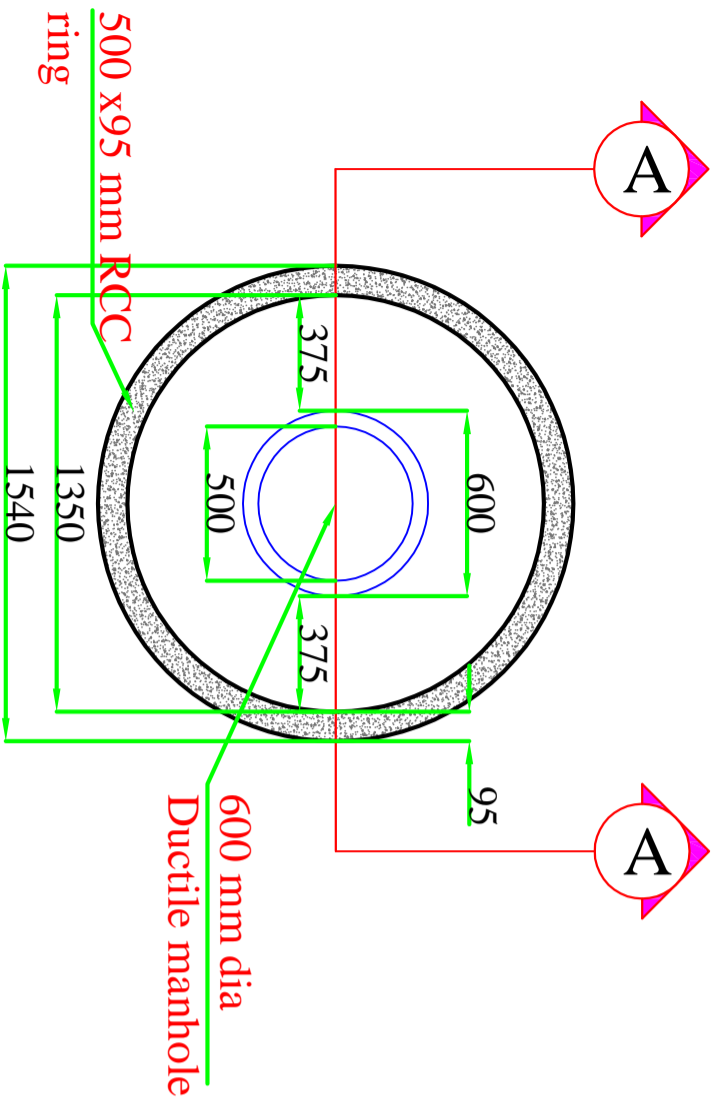
PROJECT NAME
BAGRUFSTP

CLIENT:
NIUA, DLB and Nagar Palika Bagru

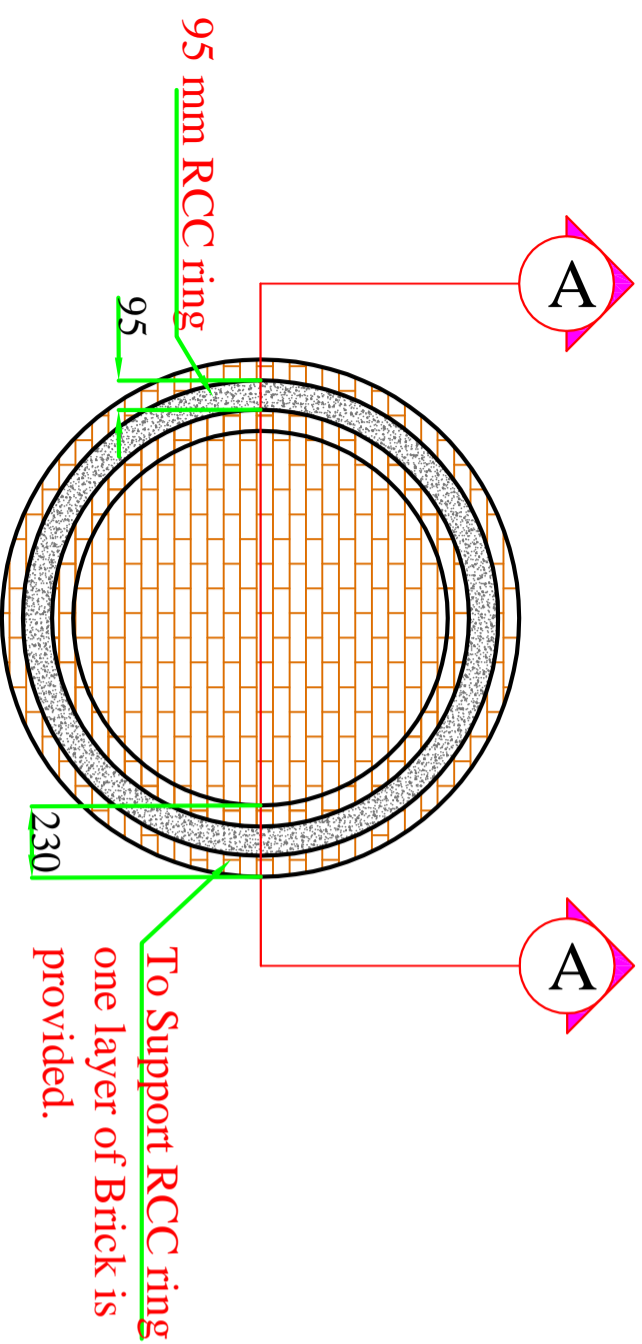
CLIENTS CONSULTANT:
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Opp. Beedi Workers Colony,
Kommaghatta Road, Bandemath
BANGALORE - 560 060
KARNATAKA.



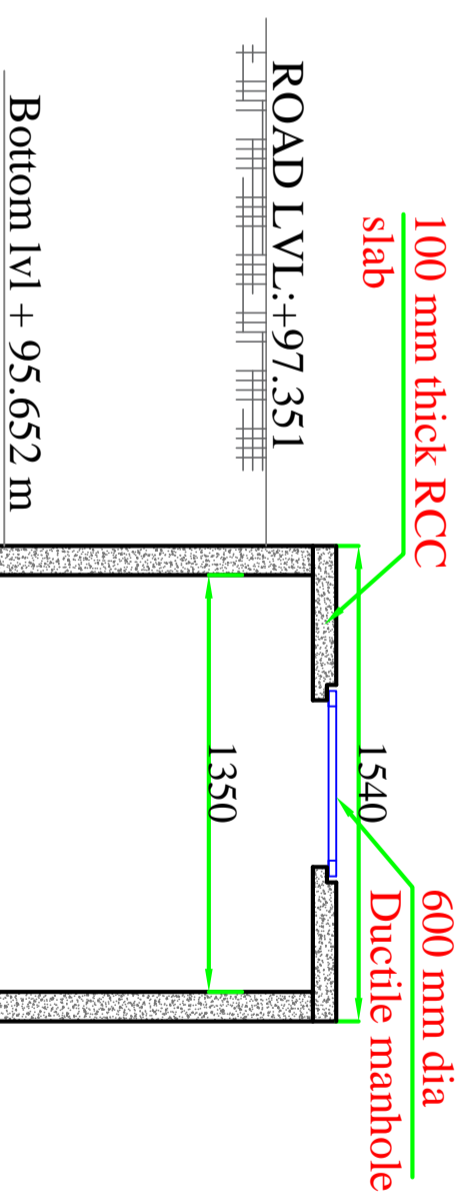
DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Suman	Praveen, N	Praveen, N
DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018
SCALE: NTS	SHEET 25 OF 27	SHEETS



TOP PLAN OF TANK



BOTTOM PLAN OF TANK



To Support RCC ring one layer of Brick is provided.

SECTION @ A-A

BAGRU FSTP

NOTES

- All dimensions are in 'mm' unless mentioned otherwise.
- All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BORDA (CDD) & is not to be copied or produced anywhere without their permission.
- EGL = Existing Ground Level -96.5
- Grade of concrete proposed (M15, M20 M25). It is recommended to use Sulphate Resistance Cement (SRC)
- R = indicates Register.
- SC = indicates Screen Chamber
- SR = indicates Stabilization Resistor
- SDB = indicates Sludge drying Bed
- PPDB = indicates Planted Drying Bed
- ST = indicates Settler
- AF = indicates Anaerobic Filter
- PGF = indicates Planted Gravel Filter
- PP = indicates Polishing Pond
- OR = indicates Operator Room
- GR = indicates Guard Room
- SSY = Sludge Storage House
- Use UPVC pipes (25.4mm, 50mm, 110mm & 150 mm dia. (1", 2", 4" & 6")) which can withstand pressure of 6kg/cm².
- Reinforce in concrete - 2% per the layout plan provided
- Perpendicular treatment structures inner plastering (walls and base) of 20mm thick is considered.

REVISIONS

DATE	REMARKS	SIGNATURE

TITLE
STORM WATER TANK :-
Top Plan of Tank, Bottom Plan of Tank and Section @A-A

DRG. No.
BAGRU/FSTP/CD/SWT

PROJECT NAME
BAGRU FSTP

CLIENT:
NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:

Survey No.205,
Opp. Beedi Workers Colony,
Kommaghatta Road, Bandemah
BANGALORE - 560 060
KARNATAKA.

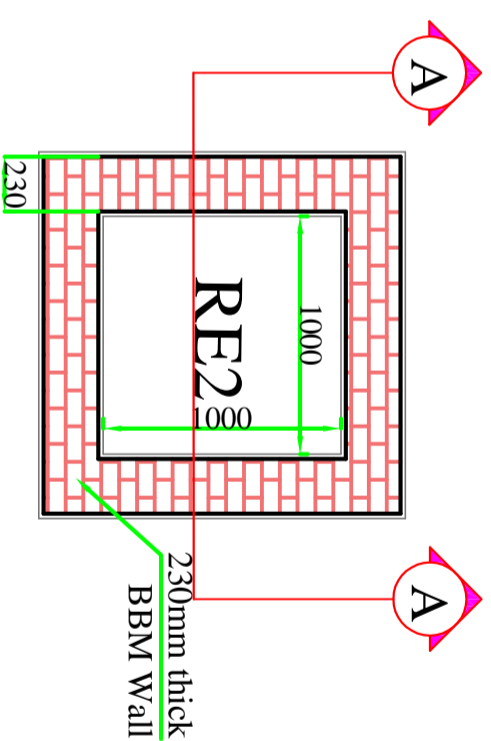
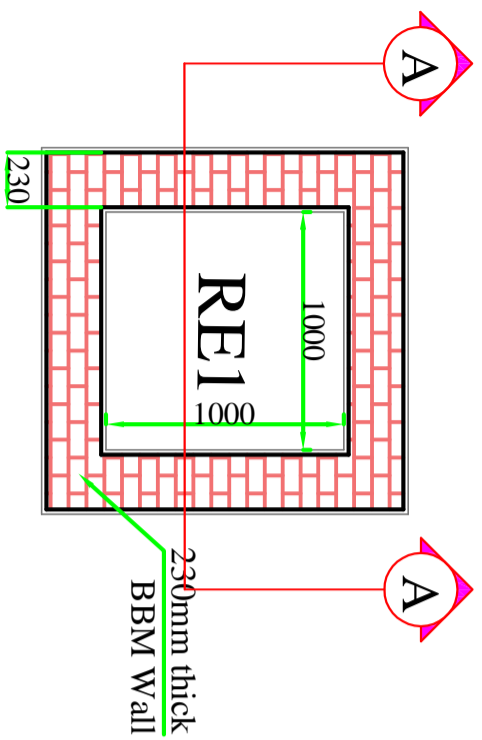


DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Suman	Praveen. N	Praveen. N

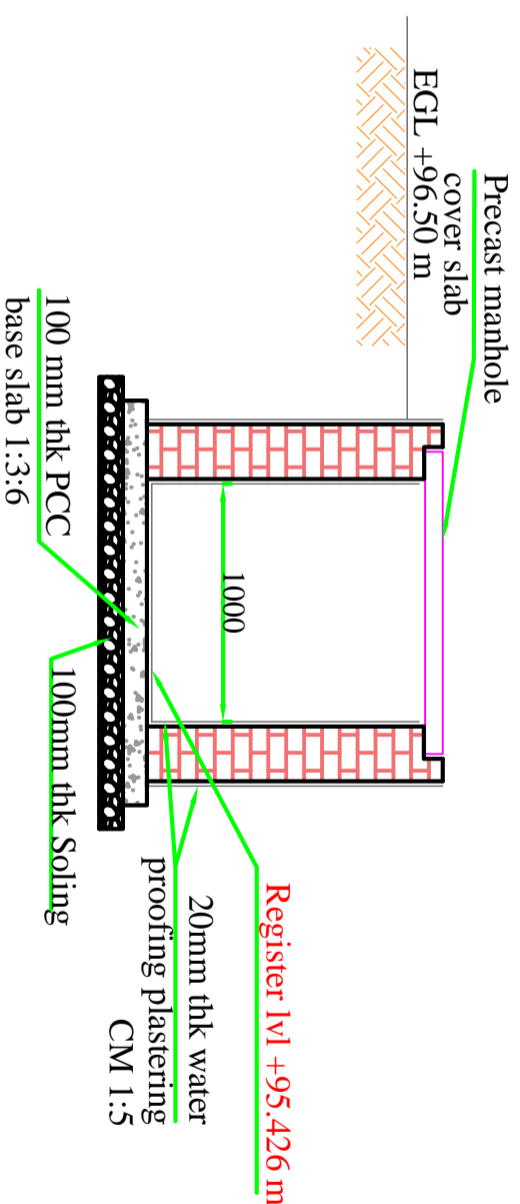
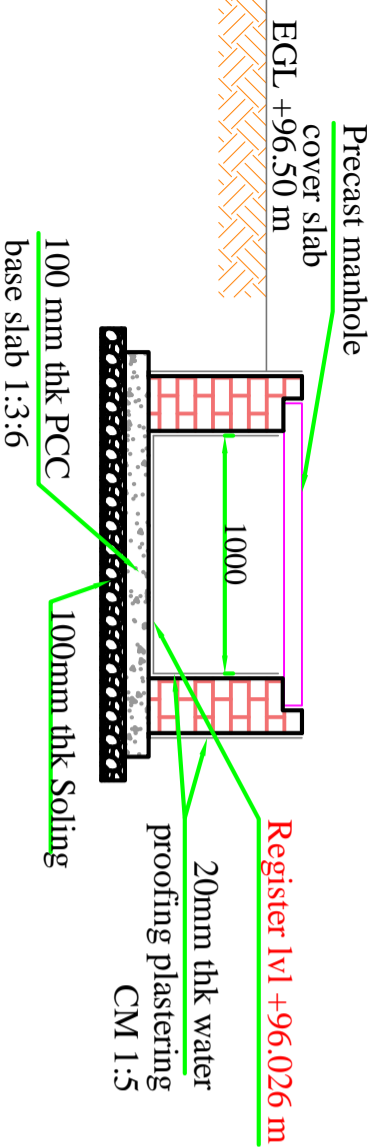
DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018

SCALE: NTS SHEET 26 OF 27 SHEETS

REGISTER



Plan of Register



Cross section @ A-A

BAGRUFSTP

NOTES

- All dimensions are in mm, unless mentioned otherwise.
- All dimensions are checked and correlated with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of BGRU/CDP & is not to be copied or produced elsewhere without the written permission of the Engineer-in-Charge, level 496.5
- EGL = Existing Ground Level
- Grade of concrete proposed (M15, M20, M25). It is recommended to use Sulphate Resistance Cement (SRC).
- R: Indicates Register.
- SC: Indicates Screen Chamber
- SIR: Indicates Stabilization Reactor
- SDB: Indicates Sludge drying Bed
- PDB: Indicates Planted Drying Bed
- ST: Indicates Settler
- AF: Indicates Aeration Filter
- PGF: Indicates Planted Gravel Filter
- PP: Indicates Polishing Pond
- OR: Indicates Operator Room
- SS: Indicates Sludge Storage Room
- SSV: Indicates Sludge Storage Vault
7. Use 1:3:6 for concrete.
8. Bench Mark = As per the layout plan provided.
9. For percolate treatment structures inner plastering (walls and base) of 20mm thick is considered.

REVISIONS

DATE	REMARKS	SIGNATURE

TITLE
REGISTER:-
Plan of Register and Cross Section @ A-A

DRG. No.
BAGRU/FSTP/CD/REGISTER
PROJECT NAME
BAGRUFSTP

CLIENT:
NIUA, DLB and Nagar Palika Bagru

CLIENTS CONSULTANT:

Survey No.205,
Opp. Beedi Workers Colony,
Kommaghatta Road, Bandemath
BANGALORE - 560 060
KARNATAKA.



DRAWN BY	CHECKED BY	APPROVED BY
Ritesh Kumar Sumran	Praveen. N	Praveen. N
DATE	DATE	DATE
22/02/2018	22/02/2018	22/02/2018
SCALE: NTS	SHEET 27 OF 27 SHEETS	