

GOVERNMENT OF ASSAM

Name of Work:

Panikheti Beel in Sivasagar District : Conservation, Restoration and Rejuvenation under Assam SWIFT Project.

GROUP - 08

VOLUME II - DRAWINGS

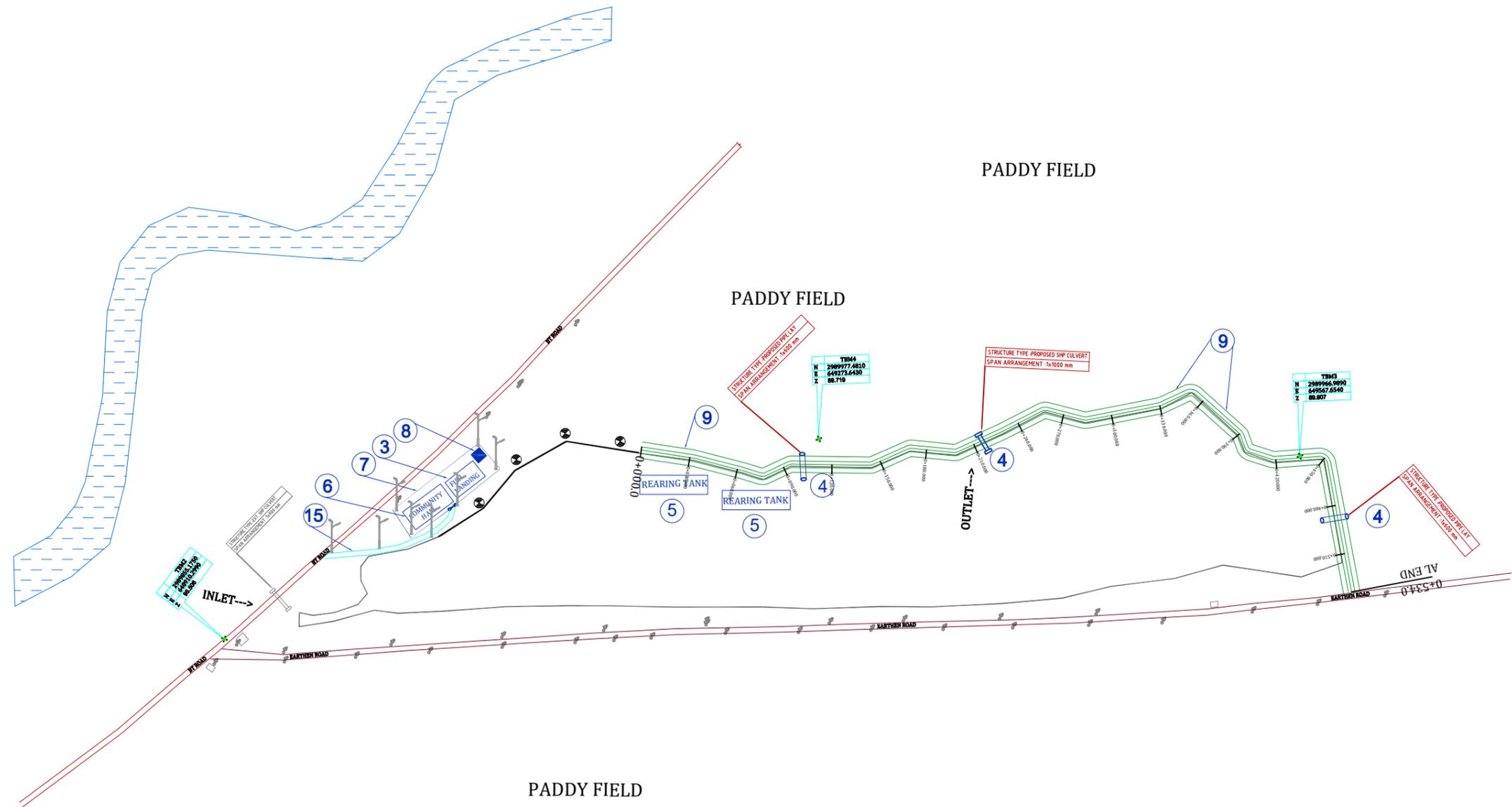
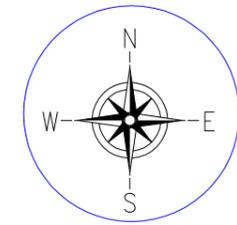
ARIAS Society

GOVERNMENT OF ASSAM

Assam Rural Infrastructure Agricultural Service Society

SL. NO.	TITLE	DRG. NO.
GENERAL		
ENGINEERING SURVEY & MAPS		
1	MASTER PLAN	ASSAM/SWIFT/GR-08/PLAN/01
2	LAYOUT PLAN	ASSAM/SWIFT/GR-08/PLAN/02
3	DRONE IMAGE	ASSAM/SWIFT/GR-08/PLAN/03
4	DE WEEDING MAP	ASSAM/SWIFT/GR-08/PLAN/04
5	BATHEMETRIC CONTOUR MAP	ASSAM/SWIFT/GR-08/PLAN/05
6	TOPOGRAPHIC CONTOUR MAP	ASSAM/SWIFT/GR-08/PLAN/06
7	LONGITUDINAL PROFILE OF BEEL	ASSAM/SWIFT/GR-08/PLAN/07
STANDARD DRAWINGS		
8	TYPICAL SECTION OF APPROACH ROAD & L - PROFILE	ASSAM/SWIFT/GR-08/SD/01
9	TYPICAL SECTION OF BUND	ASSAM/SWIFT/GR-08/SD/02
10	GENERAL ARRANGEMENT OF PIPE CULVERT, 1X1000MM DIA	ASSAM/SWIFT/GR-08/SD/03(B)
11	GENERAL ARRANGEMENT OF HUME PIPE LAY 600MM DIA	ASSAM/SWIFT/GR-08/SD/03(D)
12	PLAN, ELEVATION & CS OF COMMUNITY HALL	ASSAM/SWIFT/GR-08/SD/04
13	PLAN, ELEVATION & CS OF FISH LANDING CENTRE	ASSAM/SWIFT/GR-08/SD/05
14	OVER HEAD TANK 1000 LTR	ASSAM/SWIFT/GR-08/SD/06
15	PLAN & TYP. CS OF REARING TANK	ASSAM/SWIFT/GR-08/SD/07
16	GENERAL ARRANGEMNT OF PEN CULTURE	ASSAM/SWIFT/GR-08/SD/08
17	GENERAL ARRANGEMNT OF KATAL / JENG	ASSAM/SWIFT/GR-08/SD/09
18	FENCHING WITH IRON GATE	ASSAM/SWIFT/GR-08/SD/10
19	ENTRY GATE	ASSAM/SWIFT/GR-08/SD/11
20	GENERAL ARRANGEMNT OF INFORMATION BOARD	ASSAM/SWIFT/GR-08/SD/12
21	GENERAL ARRANGEMNT OF DEMARCATION PILLAR	ASSAM/SWIFT/GR-08/SD/13

ENGINEERING SURVEY & MAPS



LEGEND :- PROPOSED

PROPOSED HP CULVERT	
PROPOSED 600MM DIA PIPE	
PROPOSED STRUCTURE	
PROPOSED APPROACH ROAD	
PROPOSED SOLAR LAMP	
PROPOSED PERIPHERAL BUNDH	

LEGEND TYPE:- EXISTING

TBM	
BEEL BOUNDARY	
EXISTING ELECTRIC POLE	
EXT. EARTHEN ROAD	
EXT. BT ROAD	

PROVISIONS:

① WEED CLEARANCE	37812.8690 SQM.
② PROPOSED DE SILTING VOLUME	890.8590 Cu
③ PROPOSED FISH LANDING	1 NOS. (11.85 M x 7.50)
④ PROPOSED CULVERT	3 NOS.
PIPE LAY (10000 D)	2
SOLE PIPE (10000 D)	1
SOLE PIPE (20000 D)	2
⑤ PROPOSED REARING TANK	2 NOS. (0.15 Ha each)
⑥ PROPOSED COMMUNITY HALL CUM WETLAND INFORMATION CENTRE	1 NOS. (13.50 M x 11.50)
⑦ PROP. BOUNDARY FENCING WITH IRON GATE	194 M WITH IRON GATE: 2 Nos
⑧ PROP. STEEL OVER HEAD TANK (1000LTR)	1 NOS.
⑨ PROPOSED PERIPHERAL BUND	534 M.
⑩ PROPOSED SOLAR LAMP	8 NOS.
⑪ PROPOSED KATALJUENG	2 NOS. (0.20 Ha each)
⑫ PROPOSED PEN CULTURE	3 NOS. (1) Breeding pen: 1 Nos (0.2 Ha each) (2) Stocking pen: 2 Nos (0.48 Ha each)
⑬ PROPOSED BAMBOO PARTITION	1 NOS. (60
⑭ PROPOSED INFORMATION BOARD	2 NOS (WIDTH-1.025M x HEIGHT-2.45 M
⑮ PROPOSED APPROACH ROAD	90 M.
⑯ DEMARCATION PILLAR	5 NOS.

FUTURE PROVISIONS:

⑰ PROPOSED PONTOON FOOTBRIDGE
⑱ PROPOSED VERMI COMPOSED UNIT
⑲ PROPOSED ECO TOURISM
⑳ PROPOSED AQUA CULTURE

Prepared by
BASIC CONSULTANT
 (ENGINEERING CONSULTANT)
 Corp't office Address
 SURVEY, AJANTA PATH, HOUSE NO-27, GUWAHATI,
 KAMRUP (M), ASSAM, PIN-781028.
 email:-basicconsultantty@gmail.com
 Regd. Office Address
 N. HAIBARGAON, M.D. ROAD,
 NAGAON, ASSAM, PIN-783002
 email:-basicconsultant99@gmail.com

NAME OF THE BEEL:
PANIKHETI BEEL

SCALE :- 1:1000

DISTRICT:
SIBASAGAR

AREA (Ha):
6.00 Ha

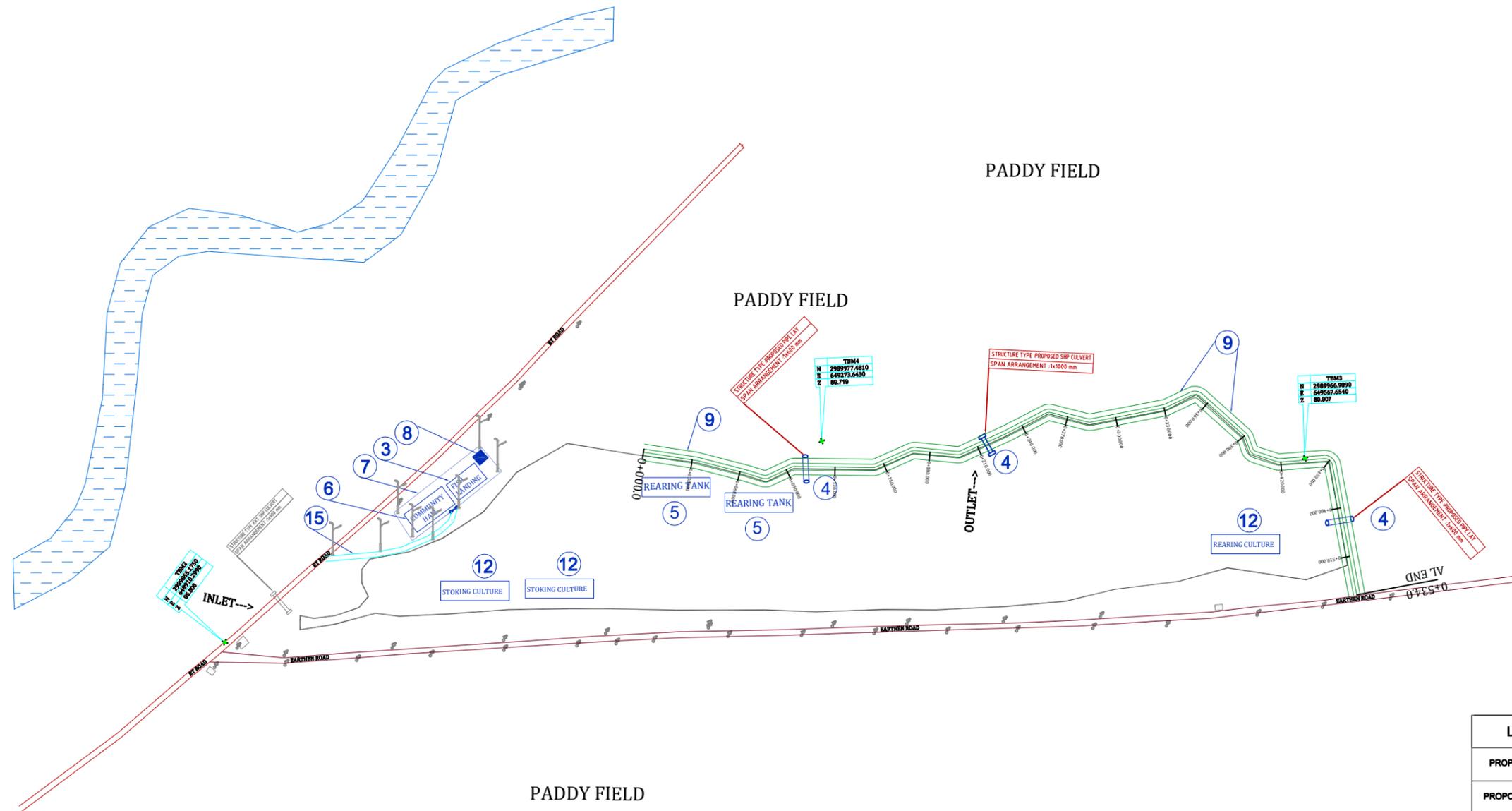
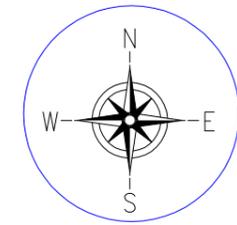
 DRAWING NO :-
ASSAM/SWIFT/GR-08/PLAN/01

PROJECT TITLE:
SUSTAINABLE WETLANDS AND INTEGRATED FISHERIES TRANSFORMATION (SWIFT) PROJECT

DWG TITLE:
MASTER PLAN LAYOUT OF PANIKHETI BEEL

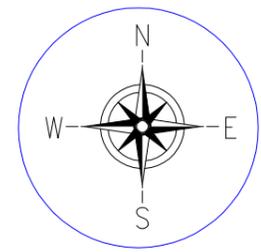


DATE:			
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED I
DATE:	DATE:	DATE:	DATE:
TEAM LEAD	A.E.	E.E.	S.E.

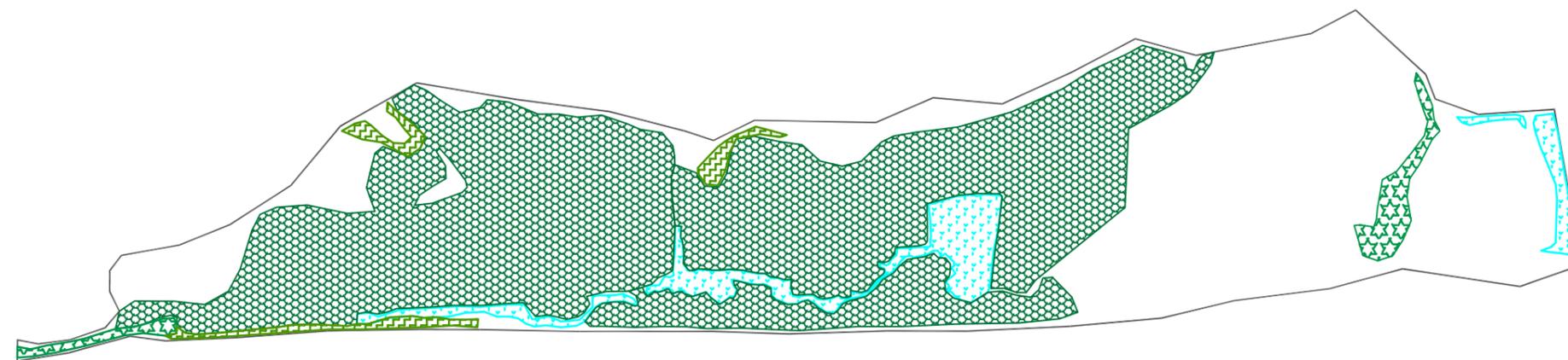
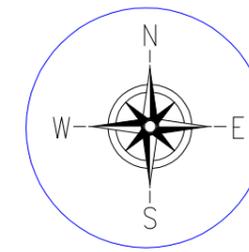


LEGEND :- PROPOSED	
PROPOSED HP CULVERT	
PROPOSED 600MM DIA PIPE	
PROPOSED STRUCTURE	
PROPOSED APPROACH ROAD	
PROPOSED SOLAR LAMP	
PROPOSED PERIPHERAL BUNDH	
LEGEND TYPE:- EXISTING	
TBM	
BEEL BOUNDARY	
EXISTING ELECTRIC POLE	
EXT. EARTHEN ROAD	
EXT. BT ROAD	

Prepared by BASIC CONSULTANT (ENGINEERING CONSULTANT) Corpt office Address SURVEY, AJANTA PATH, HOUSE NO-27, GUWAHATI, KAMRUP (M), ASSAM, PIN-781028. email:-basicconsultant99@gmail.com Regd. Office Address N. HAIBARGAON, M.D.ROAD, NAGAON, ASSAM, PIN-781002 email:-basicconsultant99@gmail.com	NAME OF THE BEEL: PANIKHETI BEEL	DISTRICT: SIBASAGAR	AREA (Ha): 6.00 Ha	PROJECT TITLE: SUSTAINABLE WETLANDS AND INTEGRATED FISHERIES TRANSFORMATION (SWIFT) PROJECT	DWG TITLE: LAYOUT PLAN OF PANIKHETI BEEL	CLIENT: ARIAS Society GOVERNMENT OF ASSAM Assam Rural Infrastructure and Agricultural Services Society	DATE: <table border="1"> <tr> <td>CHECKED BY:</td> <td>SUBMITTED TO:</td> <td>RECOMMENDED BY:</td> <td>APPROVED 1</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>DATE:</td> <td>DATE:</td> <td>DATE:</td> <td>DATE:</td> </tr> <tr> <td>TEAM LEAD</td> <td>A.E.</td> <td>E.E.</td> <td>S.E.</td> </tr> </table>	CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED 1					DATE:	DATE:	DATE:	DATE:	TEAM LEAD	A.E.	E.E.	S.E.
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DATE:	DATE:	DATE:	DATE:																				
TEAM LEAD	A.E.	E.E.	S.E.																				
SCALE :- 1:1000	DRAWING NO :- ASSAM/SWIFT/GR-08/PLAN/02																						



Prepared by BASIC CONSULTANT (ENGINEERING CONSULTANT) Corpt office Address SURVEY, AJANTA PATH, HOUSE NO-27, GUWAHATI, KAMRUP (M), ASSAM, PIN-781022. email:-basicconsultant99@gmail.com Regd. Office Address N. HAIBARGAON, M.D.ROAD, NAGAON, ASSAM, PIN-783002 email:-basicconsultant99@gmail.com	NAME OF THE BEEL: PANIKHETI BEEL	DISTRICT: SIBASAGAR	AREA (Ha): 6.00 Ha	PROJECT TITLE: SUSTAINABLE WETLANDS AND INTEGRATED FISHERIES TRANSFORMATION (SWIFT) PROJECT	DWG TITLE: DRONE SURVEY MAP OF PANIKHETI BEEL	CLIENT:  ARIAS Society GOVERNMENT OF ASSAM Assam Rural Infrastructure and Agricultural Services Society	DATE:			
	DRAWING NO :- ASSAM/SWIFT/GR-08/PLAN/03		CHECKED BY: DATE: TEAM LEAD				SUBMITTED TO: DATE: A.E.	RECOMMENDED BY: DATE: E.E.	APPROVED BY: DATE: S.E.	



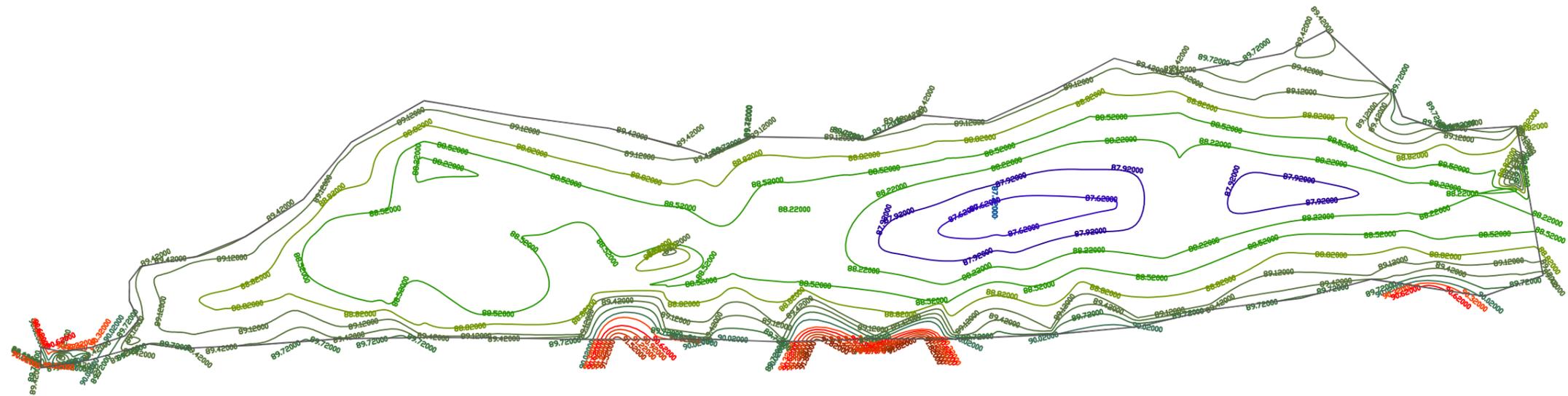
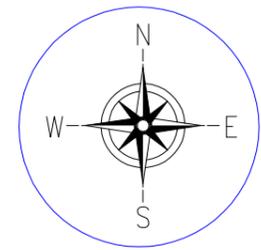
LEGEND :-

Thin and floating water etc	
Thick and floating weeds etc	
Medium and floatinng etc	
Heavy and floating etc	
CLEAR WATER AREA	

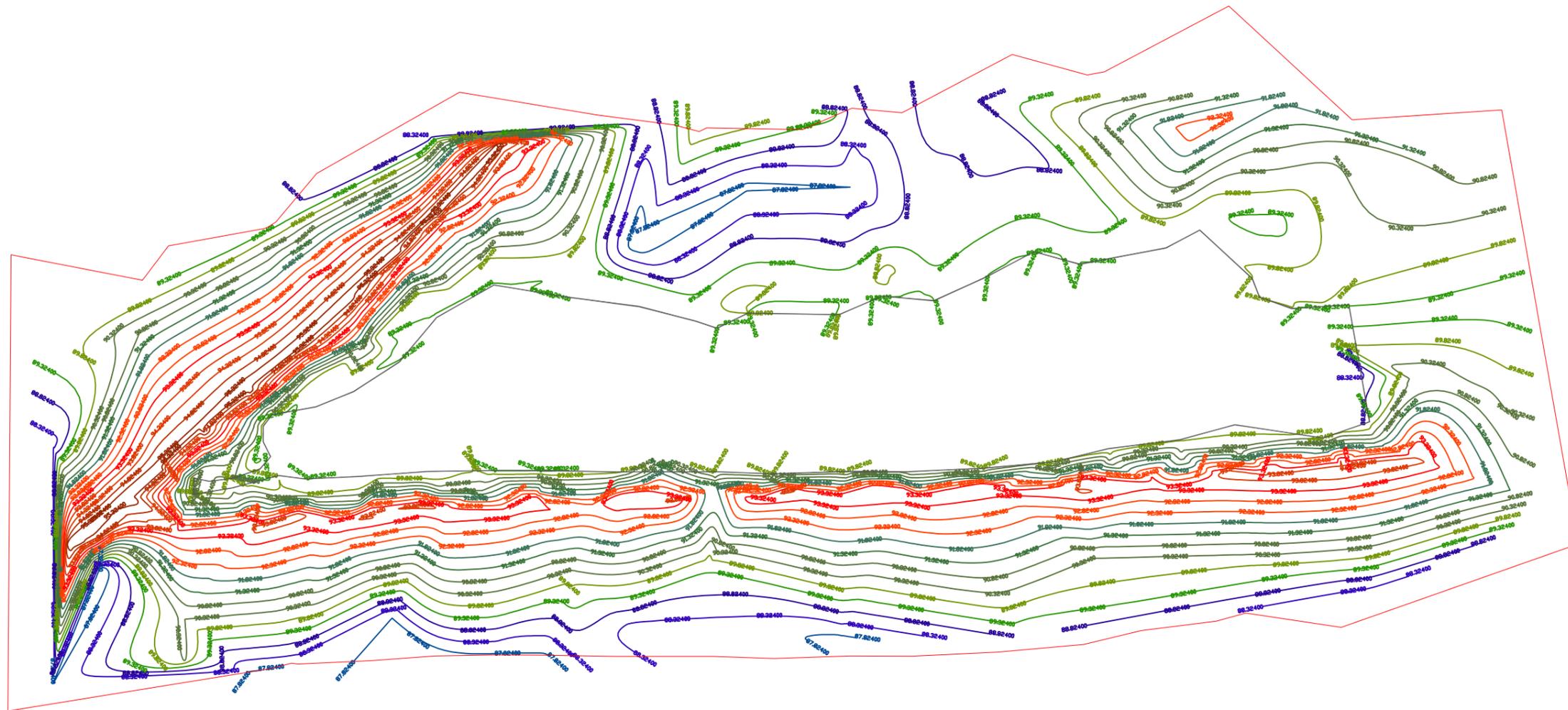
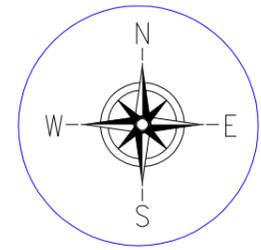
TOTAL AREA= 46155.9143 Sqm

AREA DETAILS		
SL NO	DESCRIPTION	AREA(Sq. m)
(A)	Thin and floating water hyacinths and other aquatic weeds etc.	3439.6878 SQ M
(B)	Thick and floating water hyacinths and other aquatic weeds etc.	4092.1961 SQ M
(C)	Thick and floating Taranies,Dalanies, Pitannies and other marginal aquatic weeds etc. upto a depth of 50 cm.	0.00 SQ M
(D)	Medium and floatinng Taranies,Dalanies, Pitannies and other marginal aquatic weeds etc. upto a depth of 50 cm to 80 cm	6600.2591 SQ M
(E)	Heavy and floating Taranies,Dalanies, Pitannies and other marginal aquatic weeds etc. upto a depth of 80 cm to 120 cm	32023.7713 SQ M
(F)	CLEAR WATER AREA	0.00 SQ M

Prepared by BASIC CONSULTANT (ENGINEERING CONSULTANT) Corprt office Address SURVEY, AJANTA PATH, HOUSE NO-27, GUWAHATI, KAMRUP (M), ASSAM, PIN-781022. email:-basicconsultant9@gmail.com Regd. Office Address N. HAIBARGAON, M.D.ROAD, NAGAON, ASSAM, PIN-781002 email:-basicconsultant99@gmail.com	NAME OF THE BEEL: PANIKHETI BEEL	DISTRICT: SIBASAGAR	AREA (Ha): 6.00 Ha	PROJECT TITLE: SUSTAINABLE WETLANDS AND INTEGRATED FISHERIES TRANSFORMATION (SWIFT) PROJECT	DWG TITLE: DEWEEDING MAP	CLIENT:  Assam Rural Infrastructure and Agricultural Services Society	DATE:			
	DRAWING NO :- ASSAM/SWIFT/GR-08/PLAN/04		CHECKED BY: _____				SUBMITTED TO: _____	RECOMMENDED BY: _____	APPROVED BY: _____	DATE: _____



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	SCALE :- 1:1000	DRAWING NO :- ASSAM/SWIFT/GR-08/PLAN/05					<table border="1"> <tr> <td>CHECKED BY:</td> <td>SUBMITTED TO:</td> <td>RECOMMENDED BY:</td> <td>APPROVED BY:</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DATE:</td> <td>DATE:</td> <td>DATE:</td> <td>DATE:</td> </tr> <tr> <td>TEAM LEAD</td> <td>A.E.</td> <td>E.E.</td> <td>S.E.</td> </tr> </table>	CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:					DATE:	DATE:	DATE:	DATE:	TEAM LEAD	A.E.	E.E.
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 email:-basicconsultant9@gmail.com
 Regd. Office Address
 N. HAIBARGAON, M.D.ROAD,
 NAGAON, ASSAM, PIN-783002
 email:-basicconsultant99@gmail.com

NAME OF THE BEEL:
PANIKHETI BEEL

SCALE :- 1:1000

DISTRICT:
SIBASAGAR

DRAWING NO :-
ASSAM/SWIFT/GR-08/PLAN/06

AREA (Ha):
6.00 Ha

PROJECT TITLE:
**SUSTAINABLE WETLANDS AND INTEGRATED
 FISHERIES TRANSFORMATION (SWIFT)
 PROJECT**

DWG TITLE:
**TOPOGRAPHIC CONTOUR
 MAP OF PANIKHETI BEEL**

CLIENT:



DATE			
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED
DATE:	DATE:	DATE:	DATE:
TEAM LEAD	A.E.	E.E.	S.E.

DATUM = 86.00 M



OGI	89.51173	89.61412	89.04745	89.05026	88.84192	88.77432	88.54348	88.29805	88.44189	88.36311	88.45553	88.53575	88.56072	88.39486	88.63365	88.46244	88.32839	88.36117	87.96738	87.68886	87.44019	87.39452	87.49944	87.60435	88.00666	88.03764
CHAINAGE	0.00000	20.00000	40.00000	60.00000	80.00000	100.00000	120.00000	140.00000	160.00000	180.00000	200.00000	220.00000	240.00000	260.00000	280.00000	300.00000	320.00000	340.00000	360.00000	380.00000	400.00000	420.00000	440.00000	460.00000	480.00000	500.00000

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 KAMRUP (M), ASSAM, PIN-781028.
 email:-basicconsultantghy@gmail.com

Regd. Office Address
 N. HABARGAON, W.D. ROAD,
 NAGALON, ASSAM, PIN-782002
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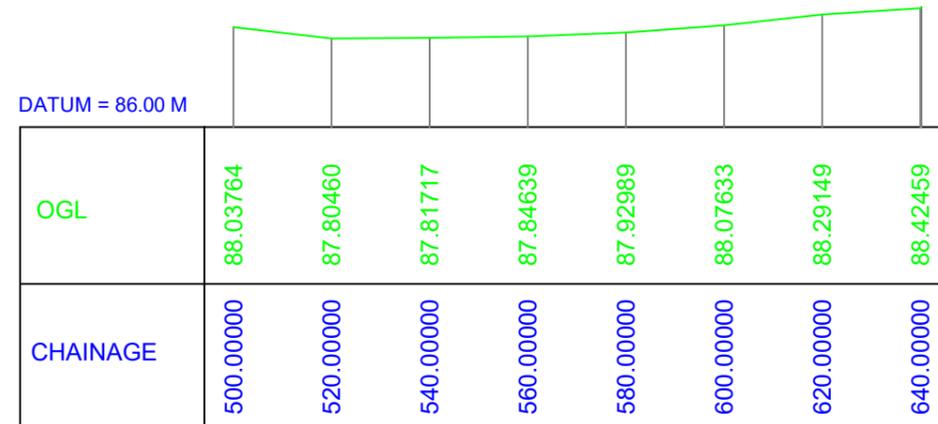
DRAWING :

LONGITUDINAL PROFILE OF BEEL

DRAWING NO

ASSAM/SWIFT/GR-08/PLAN/07-A

ARIAS Society
GOVERNMENT OF ASSAM
Assam Rural Infrastructure
Agricultural Service Society



Prepared by
BASIC CONSULTANT
 (ENGINEERING CONSULTANT)

Corporat office Address
 SURVEY, Ajanta PATH, HOUSE NO-27, GUWAHATI,
 KAMRUP (M), ASSAM, PIN-781028.
 email:-basicconsultantghy@gmail.com

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 N. HAIBARGAON, W.D. ROAD,
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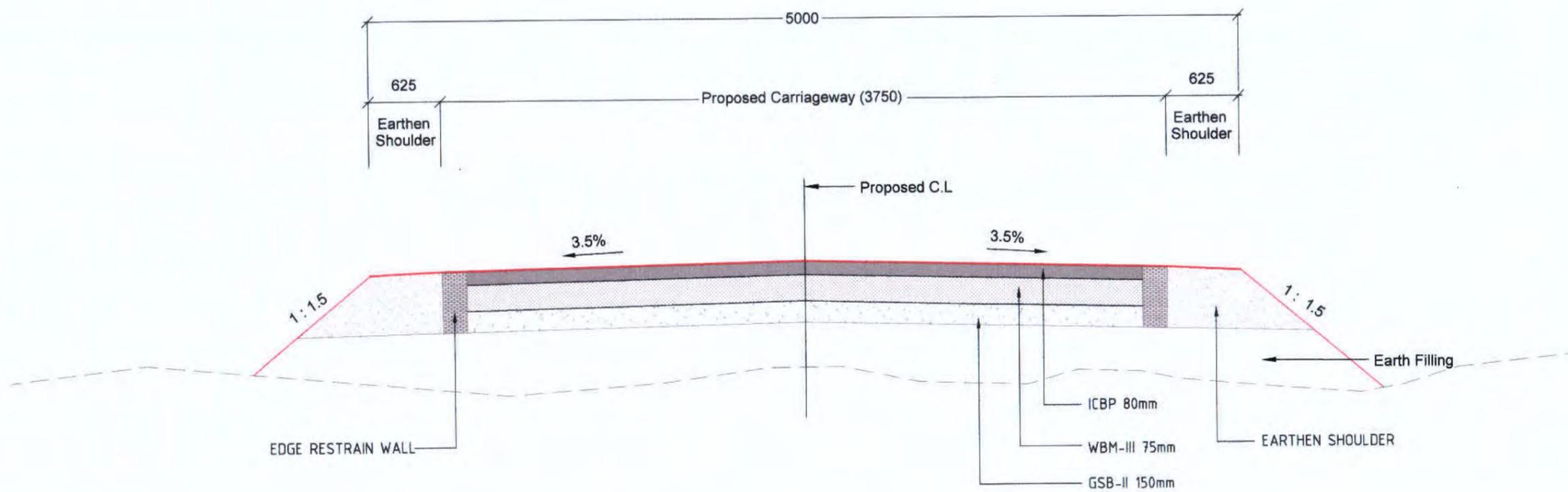
LONGITUDINAL PROFILE OF BEEL

DRAWING NO

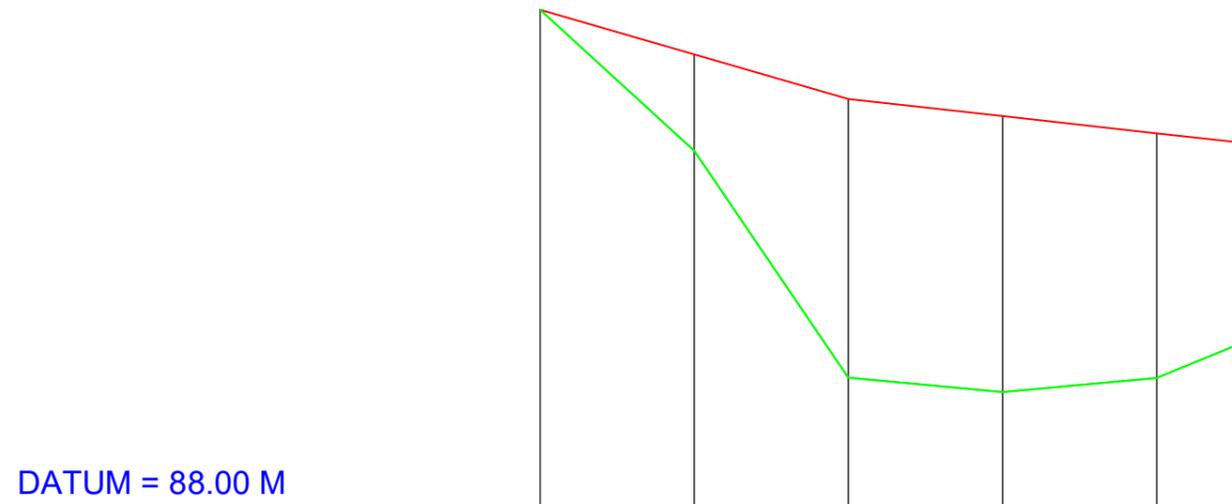
ASSAM/SWIFT/GR-08/PLAN/07-B

ARIAS Society
GOVERNMENT OF ASSAM
Assam Rural Infrastructure
Agricultural Service Society

STANDARD DRAWINGS



TYPICAL CROSS SECTION FOR APPROACH ROAD



FRL	94.591	94.012	93.432	93.210	92.988	92.877
OGI	94.591	92.762	89.820	89.632	89.815	90.227
CHAINAGE	0.000	20.000	40.000	60.000	80.000	90.000
FRL Gradient	-1/34.524 → -1/90.068 →					

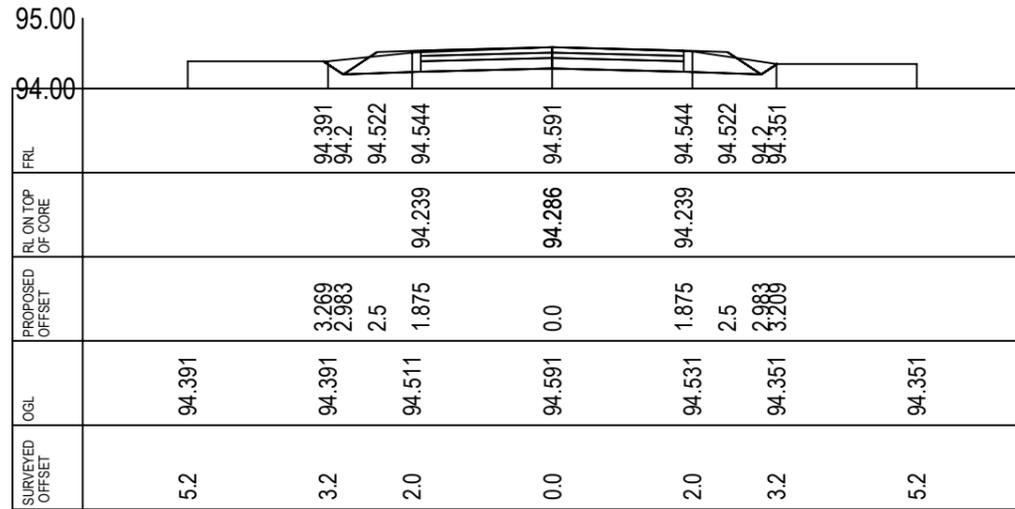
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 (ENGINEERING CONSULTANT)
 Corprt office Address
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 email:-basicconsultantghy@gmail.com
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 N. HAIBARGAON, W.D. ROAD,
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Panikheti Beel in Sivsagar District : Conservation, Restoration and Rejuvenation under Assam SWIFT Project.

DRAWING :
 LONGITUDINAL PROFILE OF
 APPROACH ROAD
 DRAWING NO
 ASSAM/SWIFT/GR-08/SD/01-A

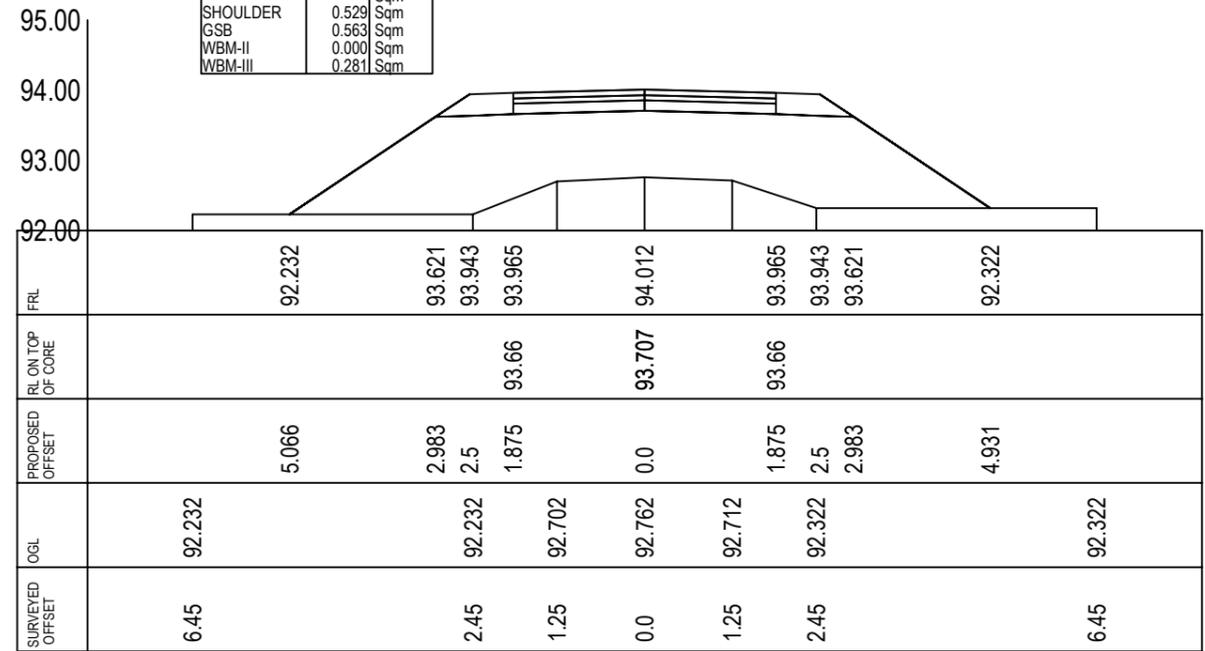
ARIAS Society
GOVERNMENT OF ASSAM
Assam Rural Infrastructure
Agricultural Service Society

AREA IN FILL	0.000	Sqm
SHOULDER	0.529	Sqm
GSB	0.563	Sqm
WBM-II	0.000	Sqm
WBM-III	0.281	Sqm



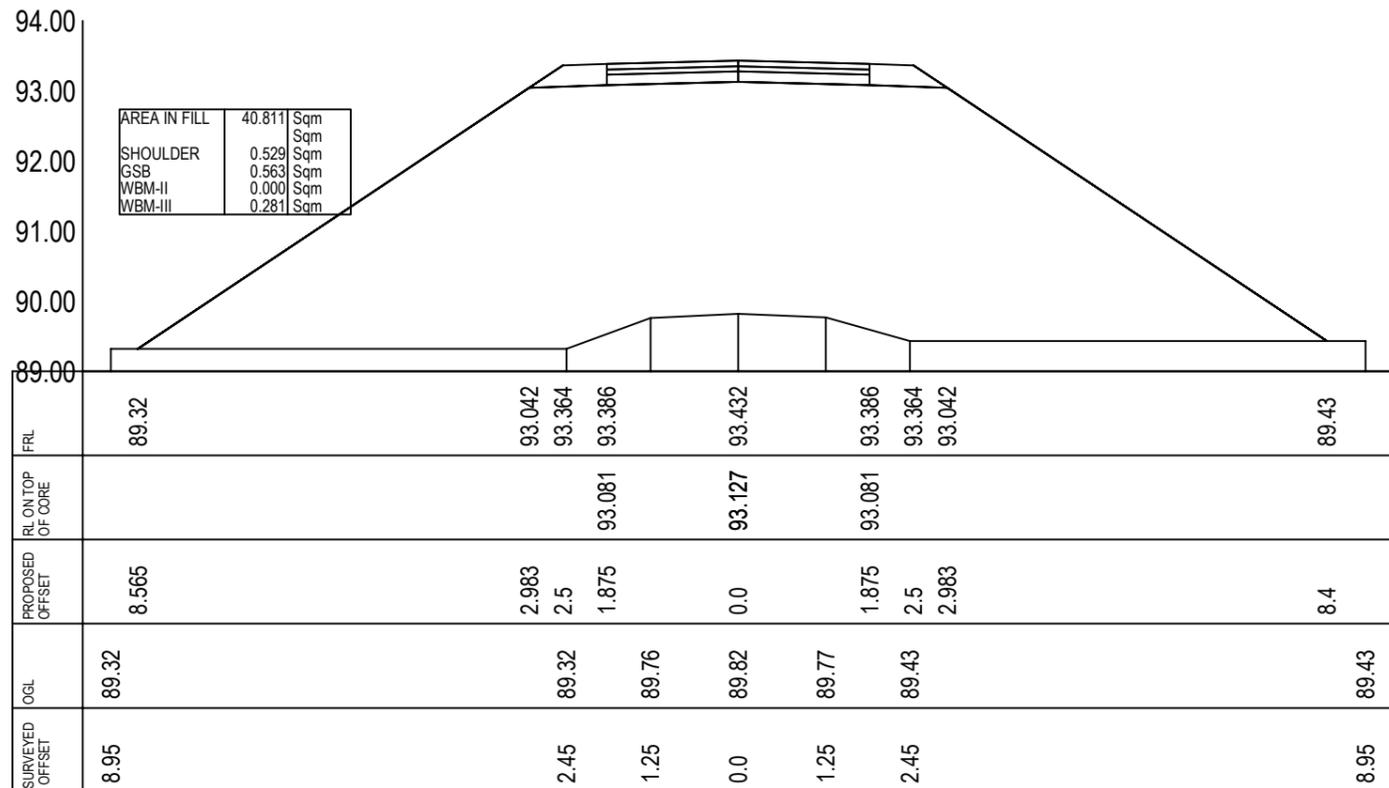
CROSS-SECTION AT CH- 0.0

AREA IN FILL	9.347	Sqm
SHOULDER	0.529	Sqm
GSB	0.563	Sqm
WBM-II	0.000	Sqm
WBM-III	0.281	Sqm



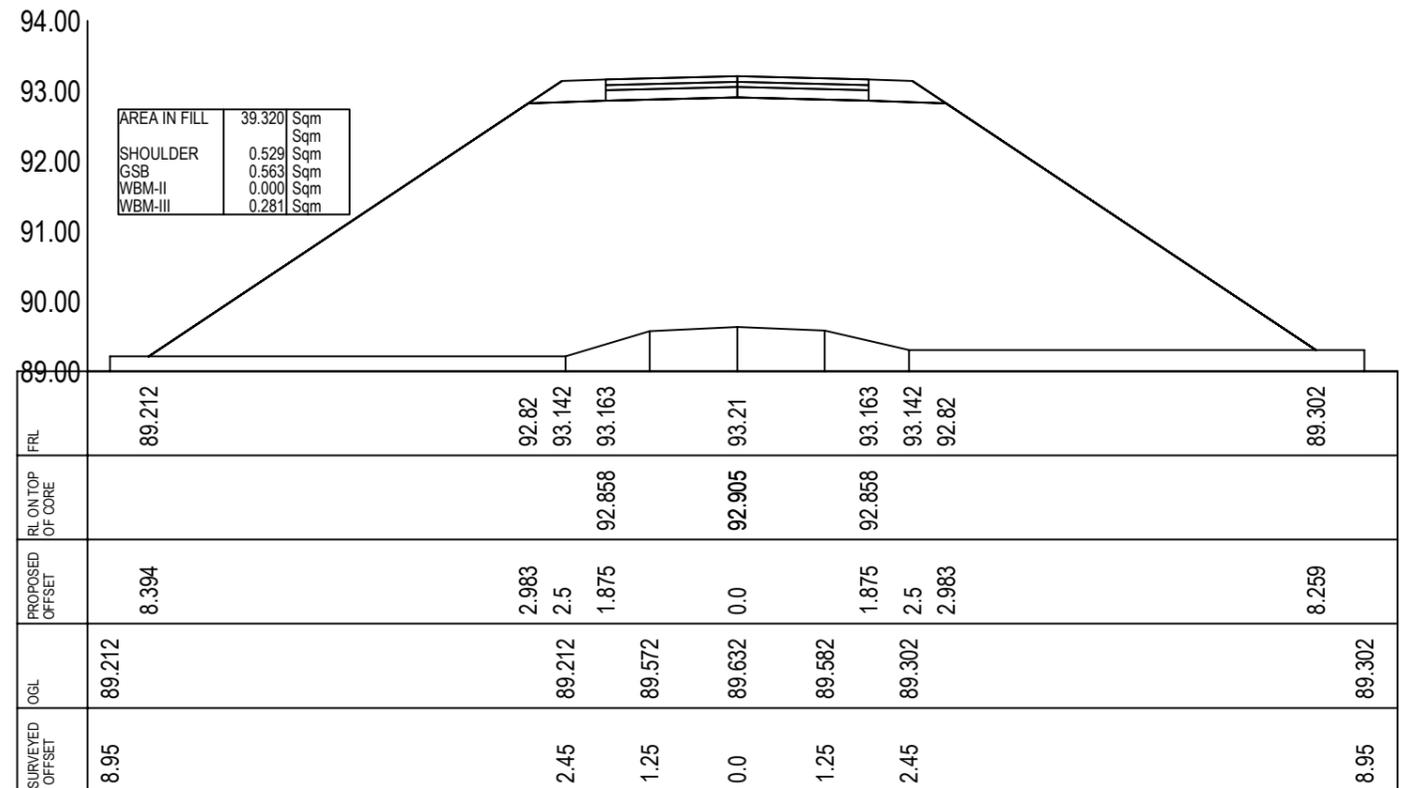
CROSS-SECTION AT CH- 20.0

AREA IN FILL	40.811	Sqm
SHOULDER	0.529	Sqm
GSB	0.563	Sqm
WBM-II	0.000	Sqm
WBM-III	0.281	Sqm



CROSS-SECTION AT CH- 40.0

AREA IN FILL	39.320	Sqm
SHOULDER	0.529	Sqm
GSB	0.563	Sqm
WBM-II	0.000	Sqm
WBM-III	0.281	Sqm



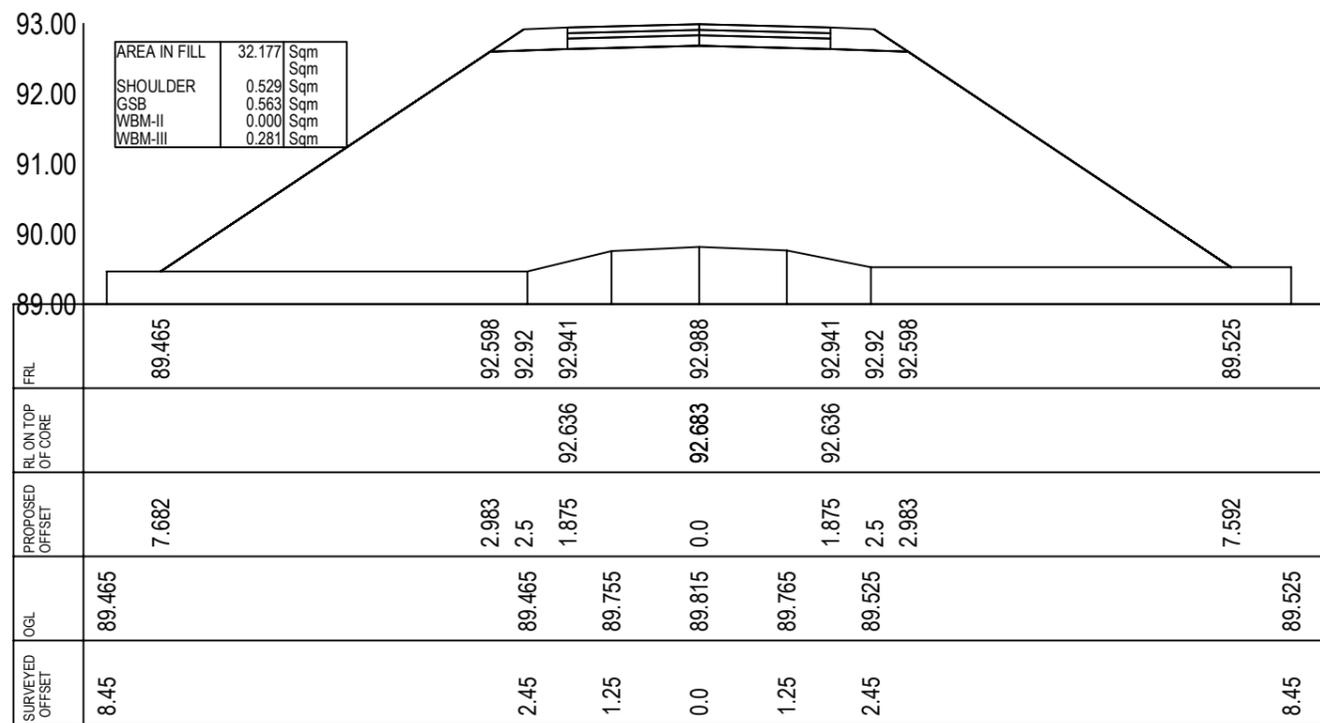
CROSS-SECTION AT CH- 60.0

Prepared by
BASIC CONSULTANT
 (ENGINEERING CONSULTANT)
 Corort office Address
 SURVEY, Aients PATH, HOUSE NO-27, GUWAHATI,
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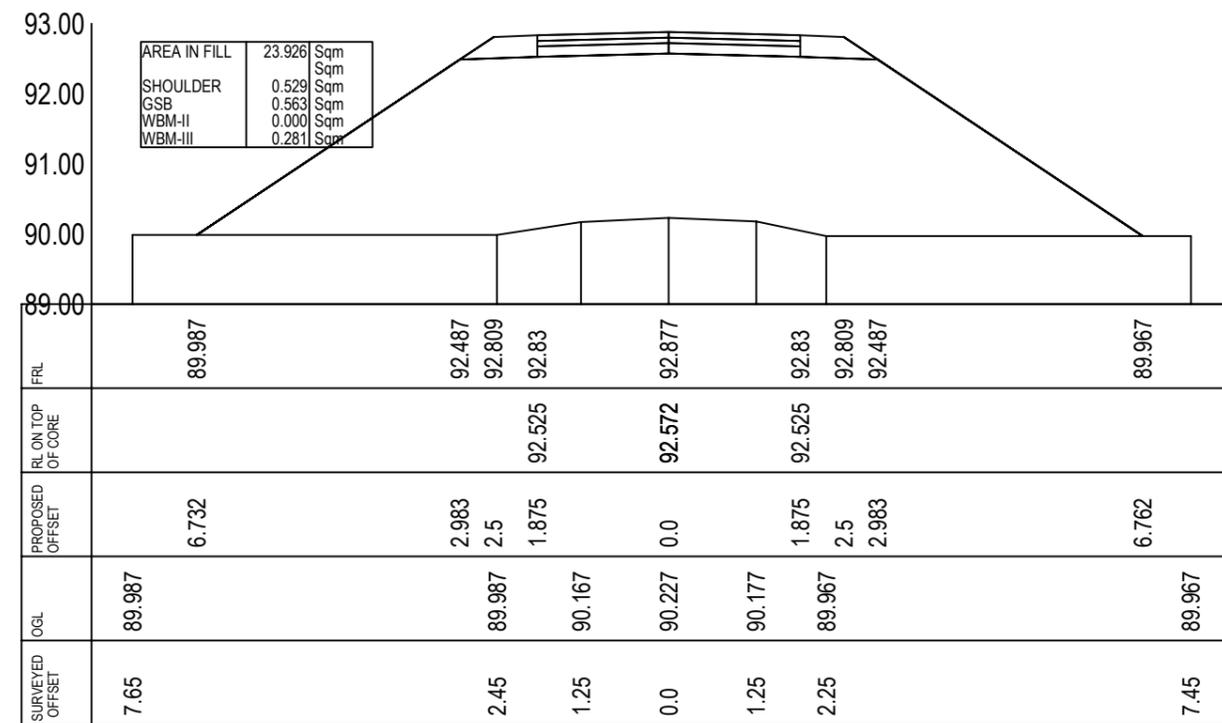
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DRAWING :
 CROSS SECTION OF APPROACH ROAD
DRAWING NO
ASSAM/SWIFT/GR-08/SD/01B

ARIAS Society
GOVERNMENT OF ASSAM
Assam Rural Infrastructure
Agricultural Service Society



CROSS-SECTION AT CH- 80.0



CROSS-SECTION AT CH- 90.0

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BASIC CONSULTANT
 (ENGINEERING CONSULTANT)

Corport office Address
 SURVEY, Aizents PATH, HOUSE NO-27, GUWAHATI,
 KAMRUP (M), ASSAM, PIN-781028.
 email:-basicconsultantghy@gmail.com

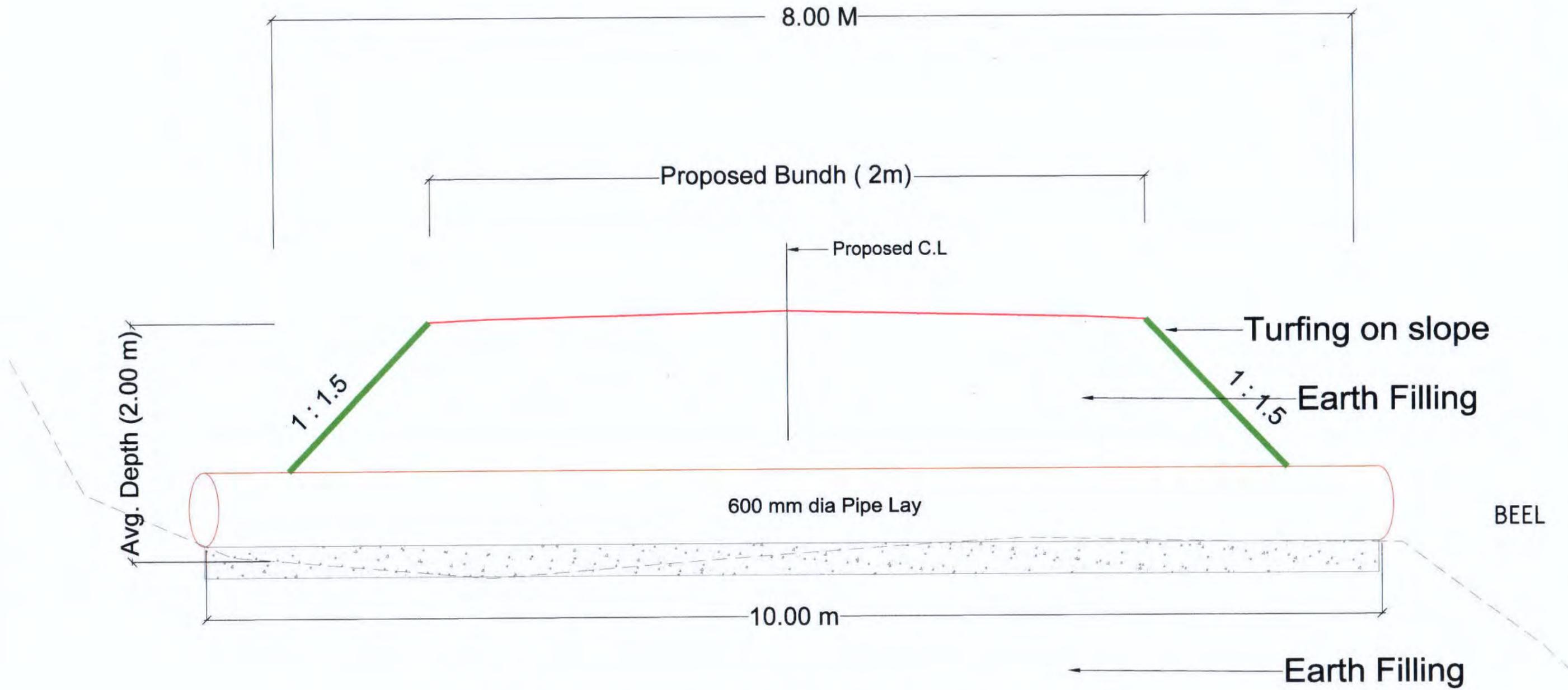
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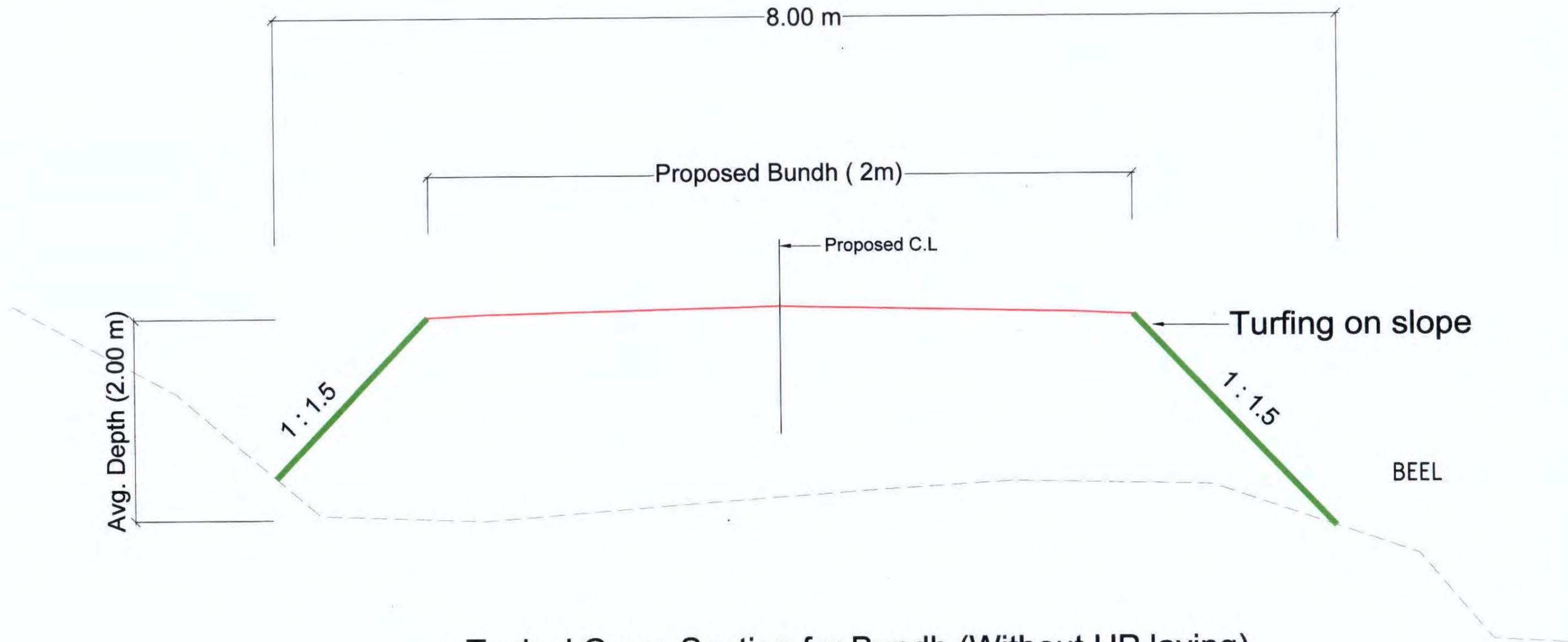
DRAWING :
 CROSS SECTION OF APPROACH ROAD

DRAWING NO
ASSAM/SWIFT/GR-08/SD/01C

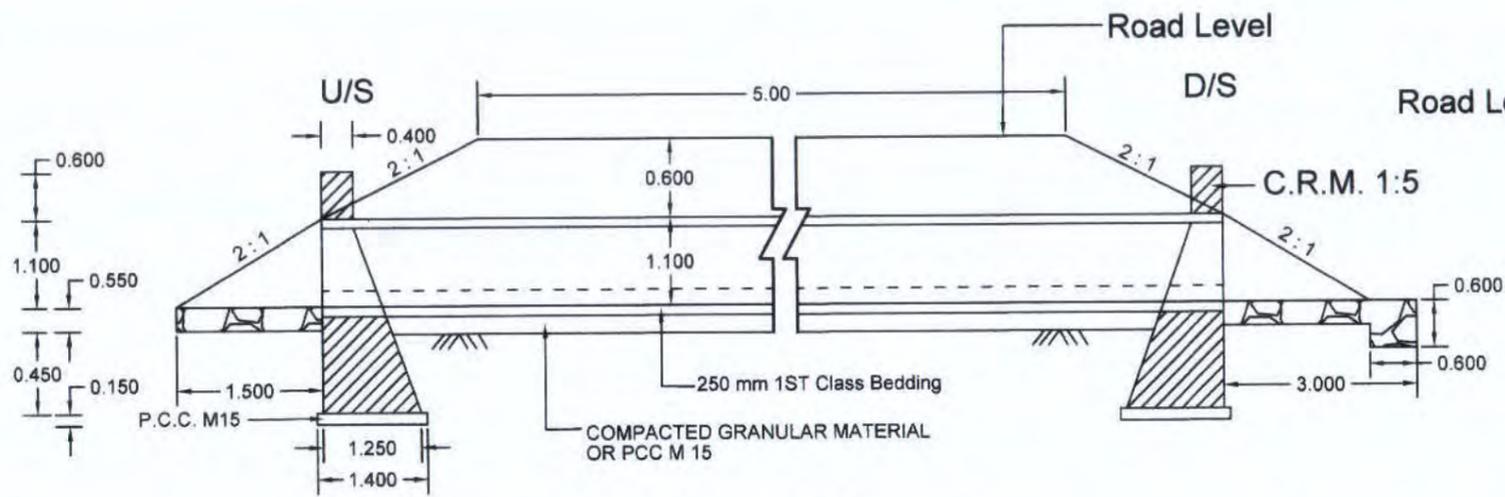
ARIAS Society
GOVERNMENT OF ASSAM
Assam Rural Infrastructure
Agricultural Service Society



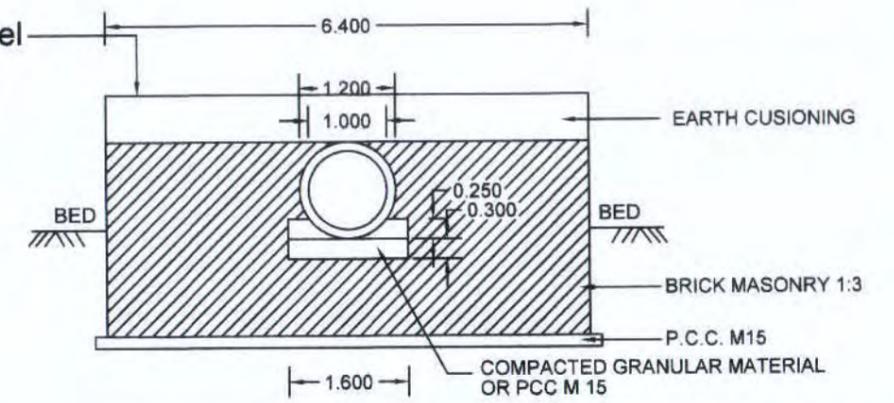
Typical Cross Section for Bundh (With HP laying)



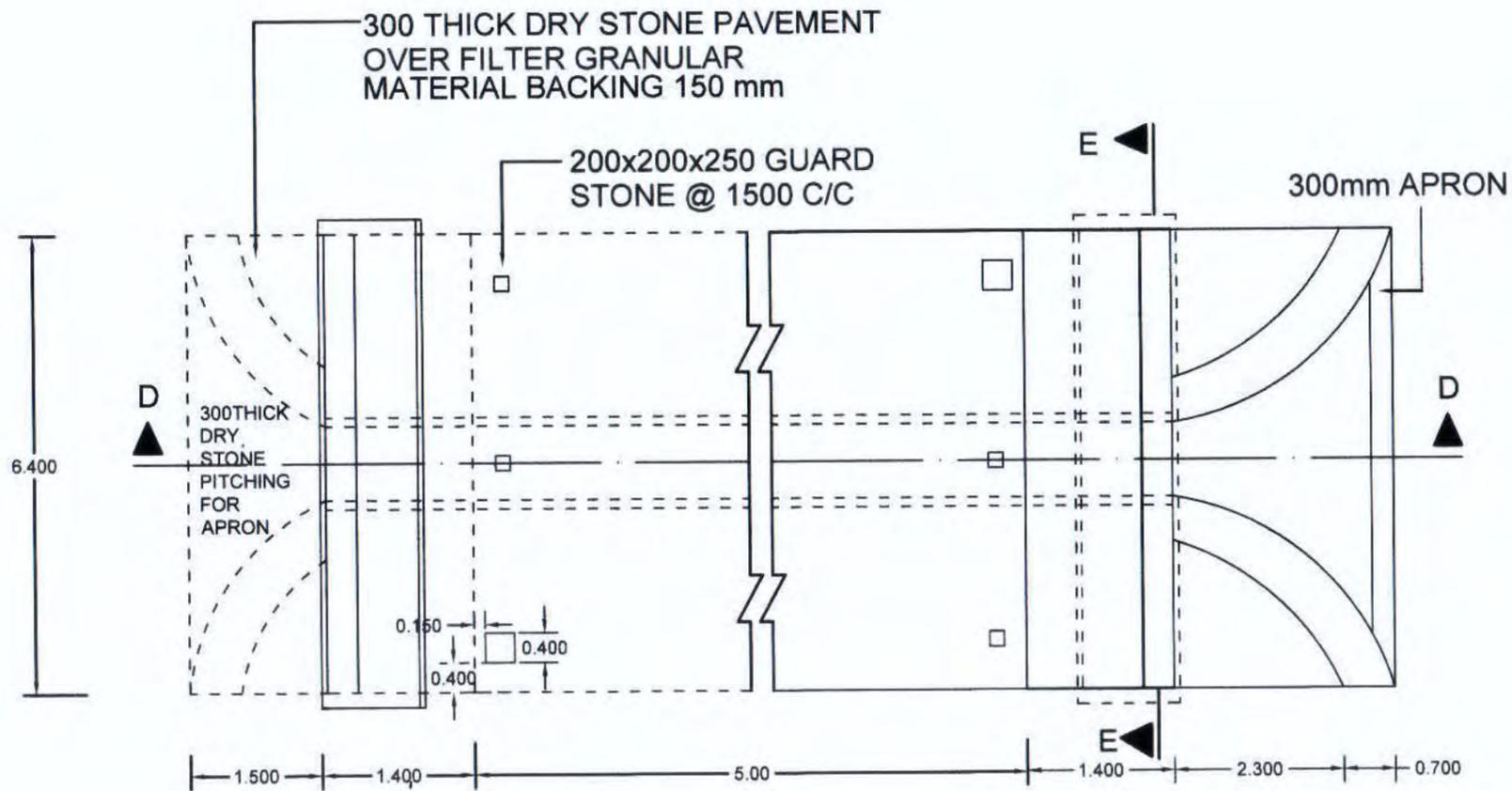
Typical Cross Section for Bundh (Without HP laying)



SECTION AT D - D
1000mm DIA PIPE CULVERT SINGLE ROW



SECTION AT E - E
1000mm DIA. CULVERT



PLAN OF 1000mm DIA SINGLE ROW CULVERT

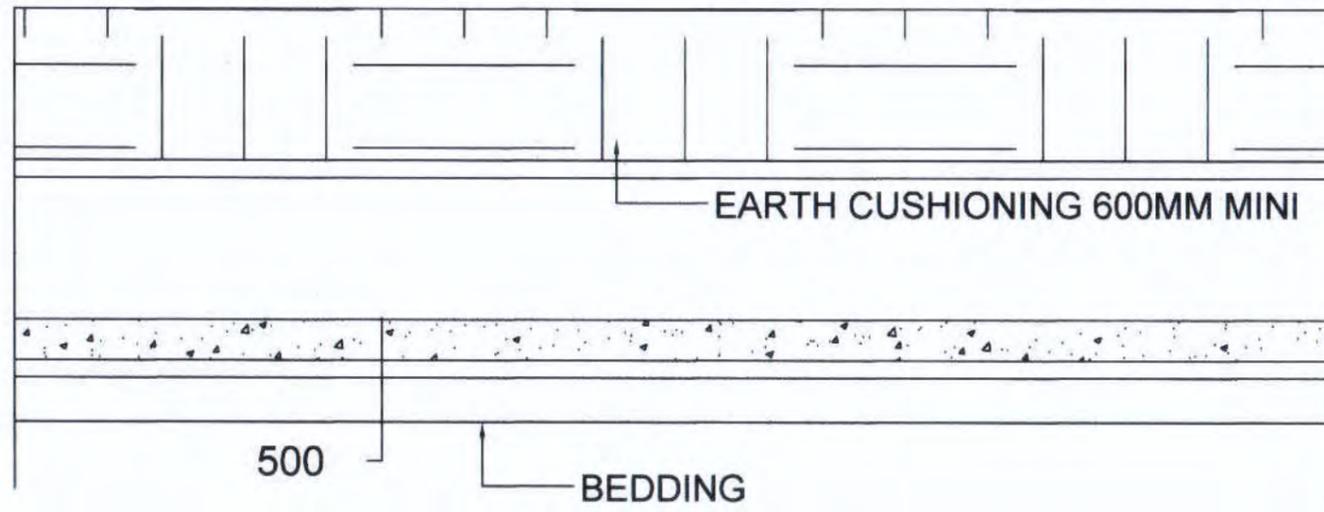
Prepared by
BASIC CONSULTANT
 (ENGINEERING CONSULTANT)
 Corprt office Address
 SURVEY, Ajanis PATH, HOUSE NO-27, GUWAHATI,
 KAMRUP (M), ASSAM, PIN-781028.
 email:-basicconsultantgty@gmail.com
 Regd. Office Address
 N. HAJBARGAON, M.D.ROAD,
 NAGAON, ASSAM, PIN-782002
 email:-basicconsultant99@gmail.com

DRAWING :
 GENERAL ARRANGEMENT OF PIPE
 CULVERT, 1000MM DIA

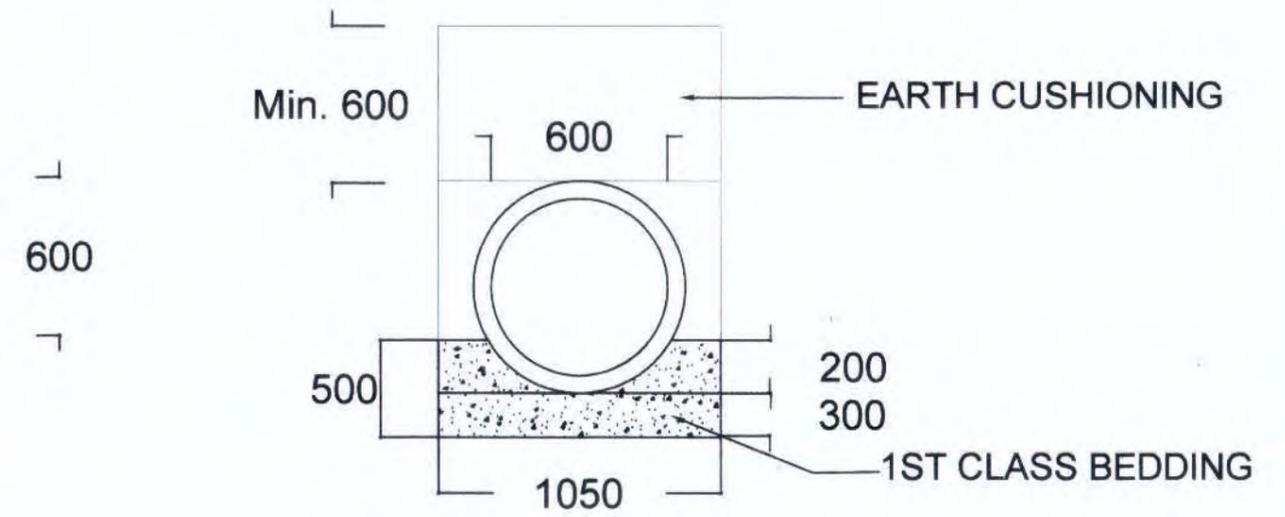
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LONGITUDINAL SECTION OF HUME PIPE CULVERT



CROSS SECTION OF HUME PIPE CULVERT



PLAN OF HUME PIPE CULVERT

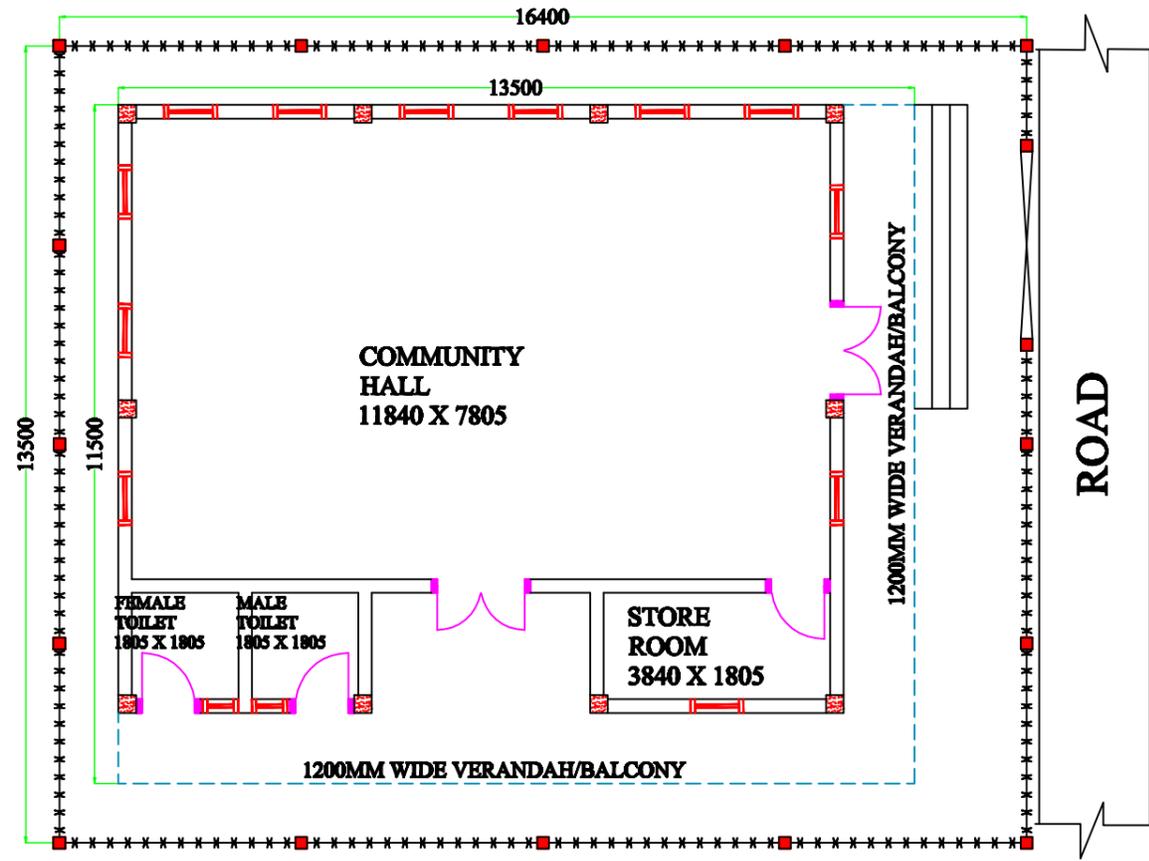
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BASIC CONSULTANT
 (ENGINEERING CONSULTANT)
 Corp't office Address
 SURVEY, Ajanta PATH, HOUSE NO-27, GUWAHATI,
 KAMRUP (M), ASSAM, PIN-781028.
 email:-basicconsultant@yahoo.com
 Regd. Office Address
 N. HABIBGAON, M.D.ROAD,
 NAGAON, ASSAM, PIN-782002
 email:-basicconsultant99@gmail.com

DRAWING :
 GENERAL ARRANGEMENT OF LAYING PIPE
 CULVERT, 600MM DIA

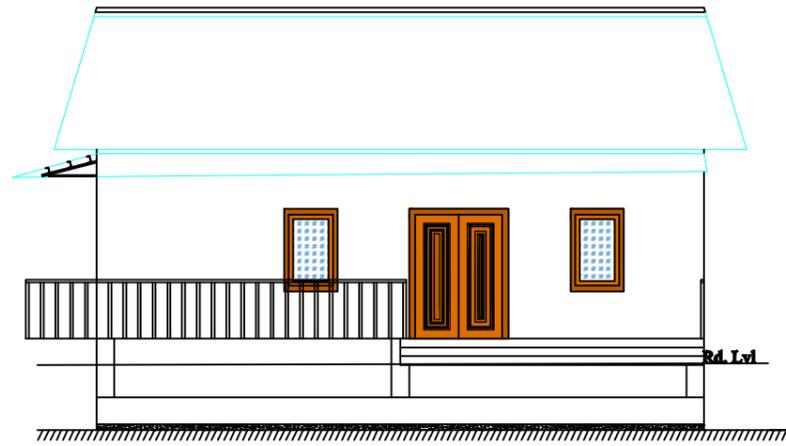
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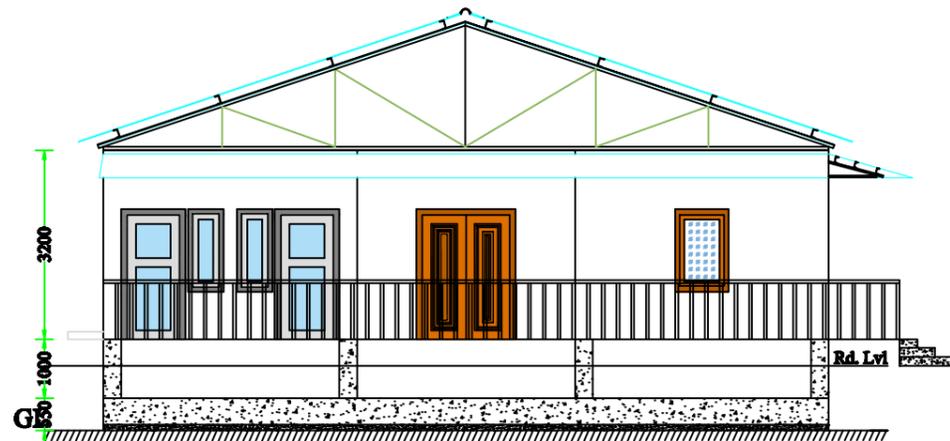
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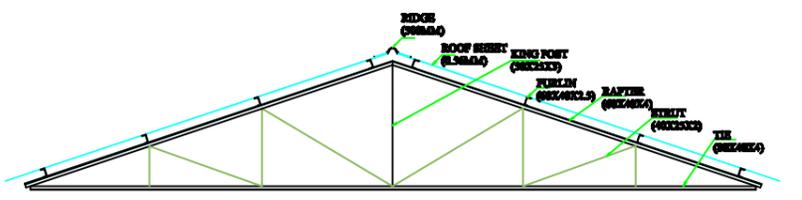
PLAN



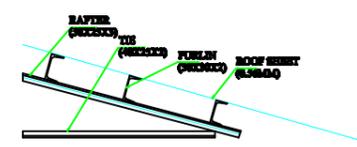
FRONT ELEVATION



SIDE ELEVATION



DETAILS OF ROOF TRUSS



DETAILS OF EXTENDED ROOF TRUSS

COMPONENT	QUANTITY	SIZE
MAIN DOOR	1 Nos.	1500mm x 2100mm
BACK DOOR	1 Nos.	1500mm x 2100mm
STORE ROOM DOOR	1 Nos.	900mm x 2100mm
TOILET DOOR	2 Nos.	900mm x 2100mm
MAIN WINDOW	12 Nos.	900mm x 1200mm
TOILET WINDOW	2 Nos.	600mm x 1200mm

Prepared by
BASIC CONSULTANT
 (ENGINEERING CONSULTANT)
 Carpet Office Address
 SURVEY, Plot No. 10/11, HOUSE NO-07, GURUMATI,
 KAMRUPOUR, ASSAM, PIN-781002.
 email:-basicconsultant@gmail.com
 Regd. Office Address
 N. RAMANANDAN, B.D. ROAD,
 BARSAK, ASSAM, PIN-781002
 email:-basicconsultant02@gmail.com

DRAWING :
 PLAN & ELEVATION

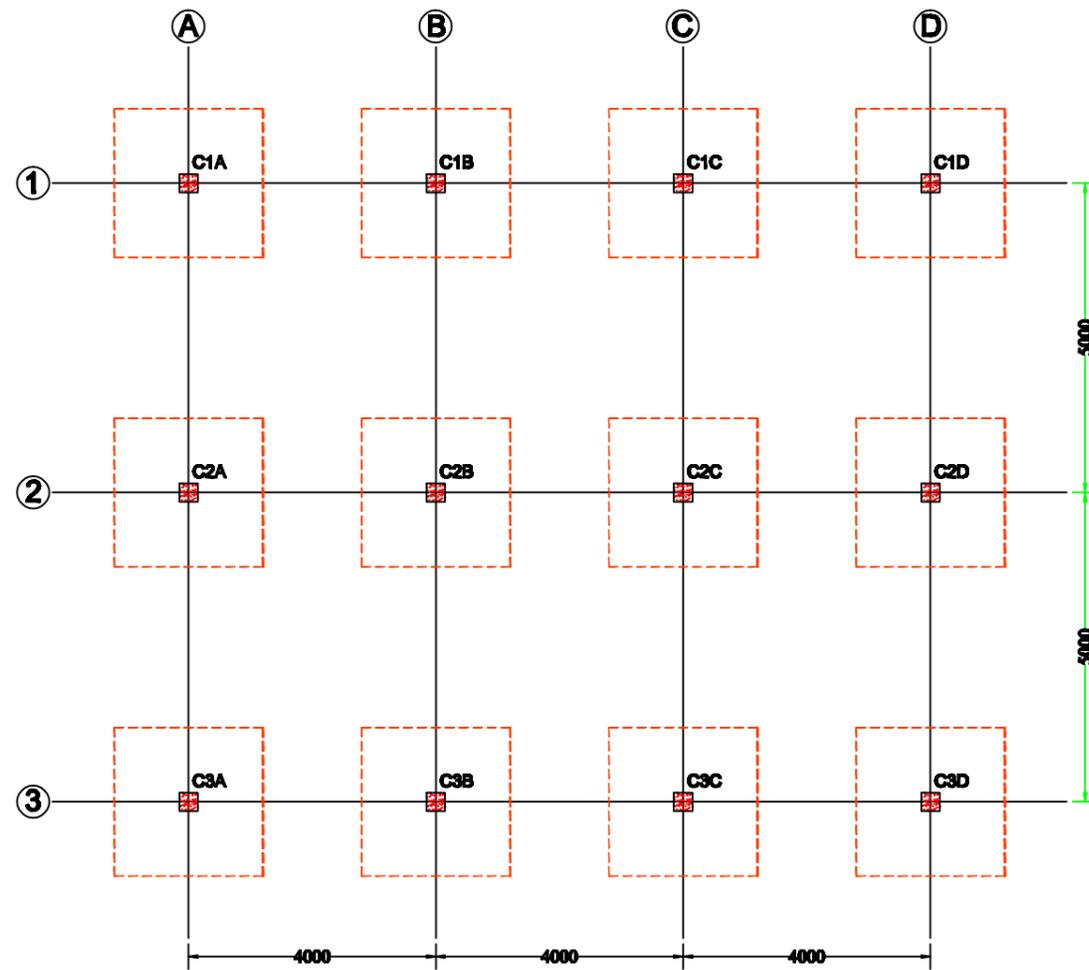
PROJECT TITLE:
 Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

DRAWING No. :
 ASSAM/SWIFT/GR-08/SD/04(A)

DRAWING CONTENTS: COMMUNITY HALL

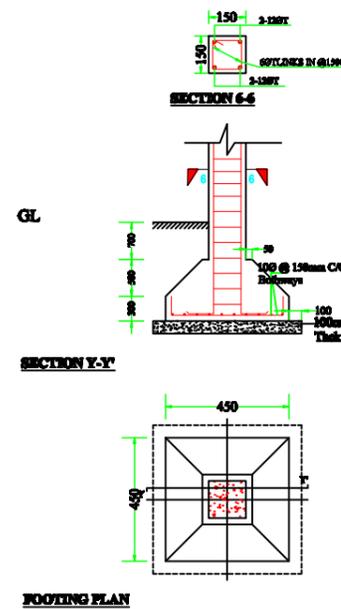
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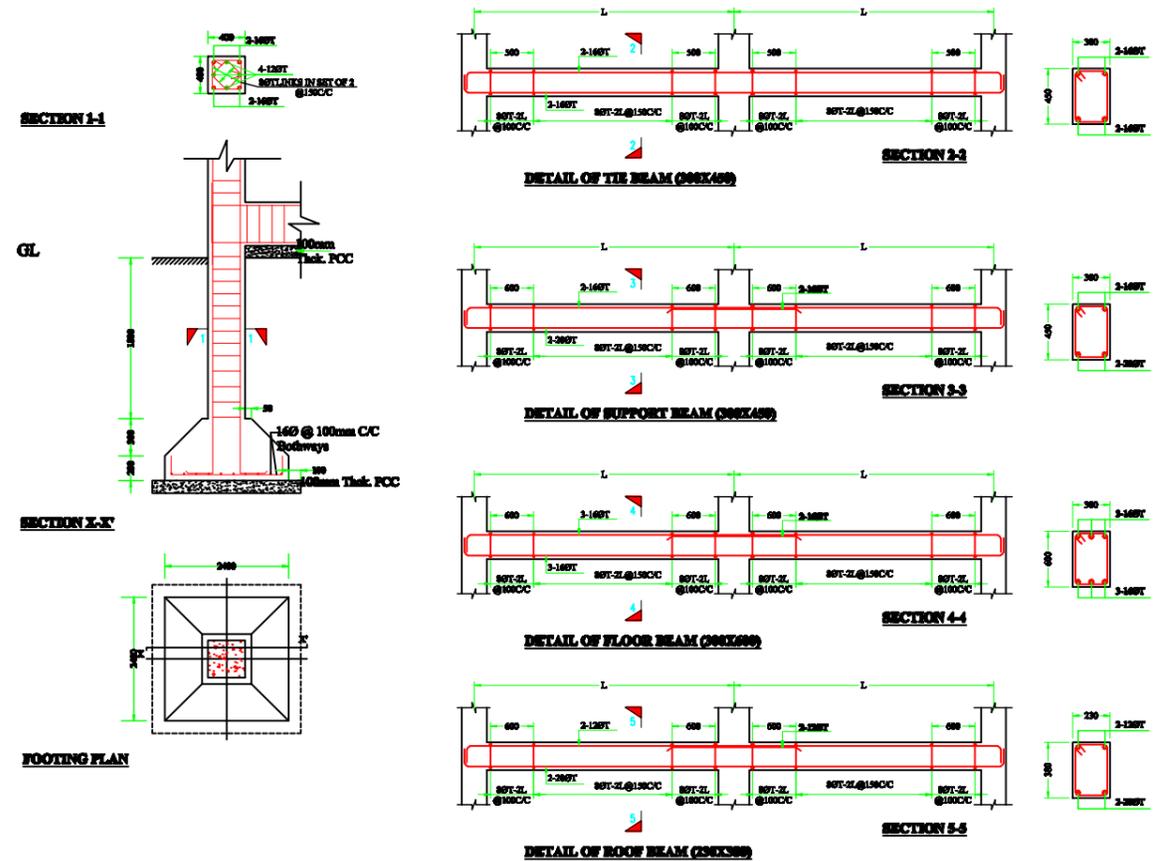
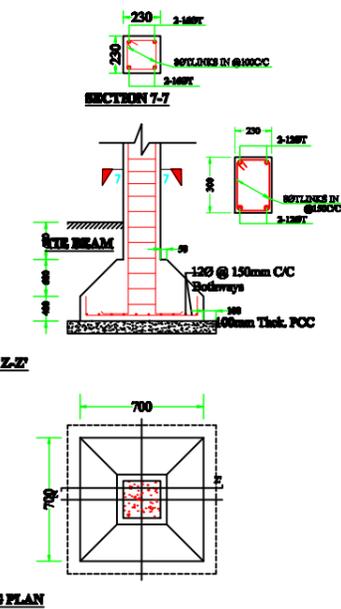


FOOTING & COLUMN PLAN

DETAILS OF RCC POST FOR CHAIN-LINK FENCING



DETAILS OF RCC POST FOR GATE



Prepared by
BASIC CONSULTANT
(ENGINEERING CONSULTANT)

Corpt office Address
SURVEY, Agri PATH, HOUSE NO-07, GUWAHATI,
KAMRUPOUR (P), ASSAM, PIN-781002.
email- basicconsultant@gmail.com

Regd. Office Address
N. HANBANGA, M.B. ROAD,
HABIGHA, ASSAM, PIN-781002
email- basicconsultant@gmail.com

DRAWING :

LAYOUT OF COLUMN

DRAWING No. :

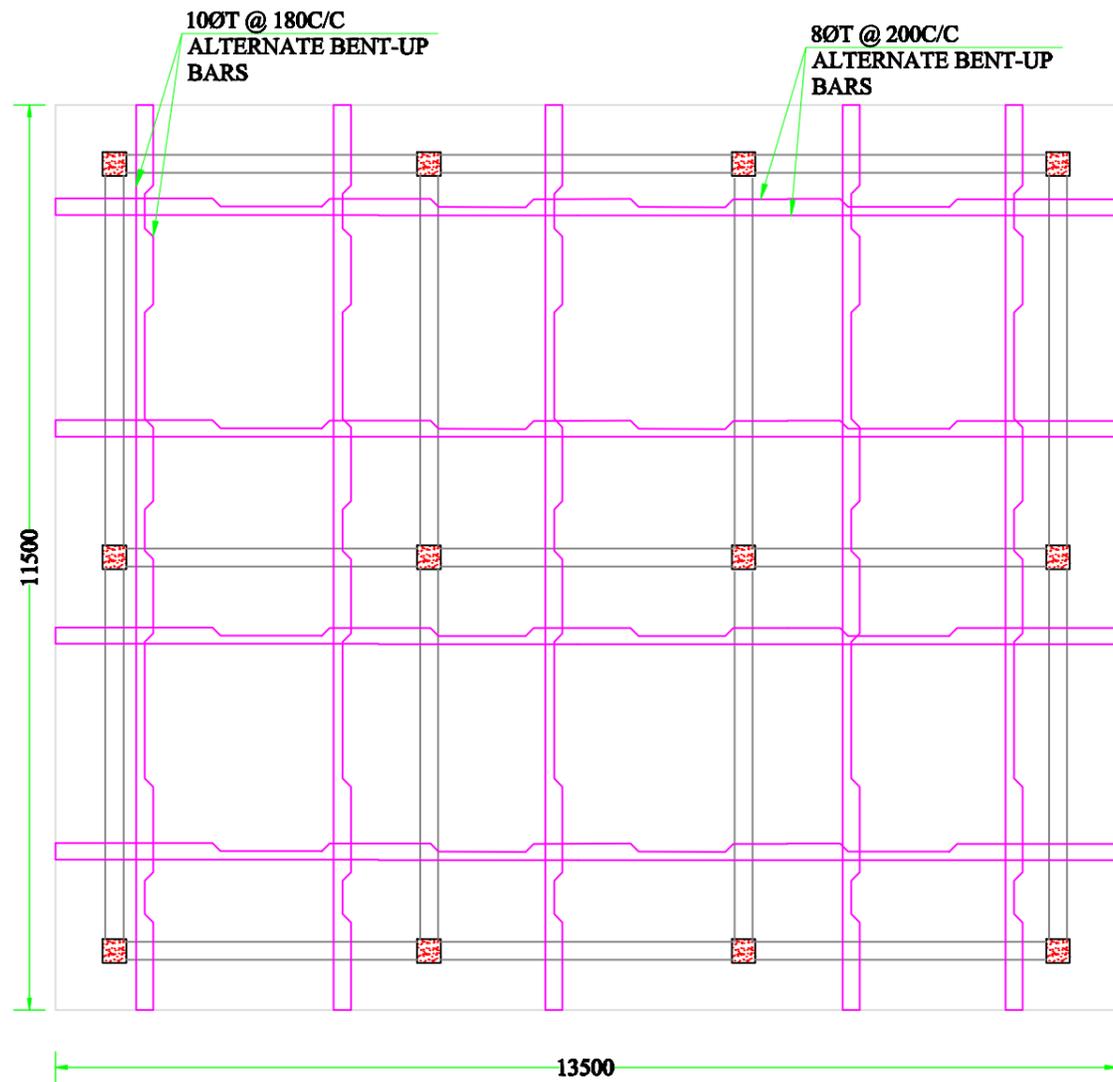
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PROJECT TITLE:
Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

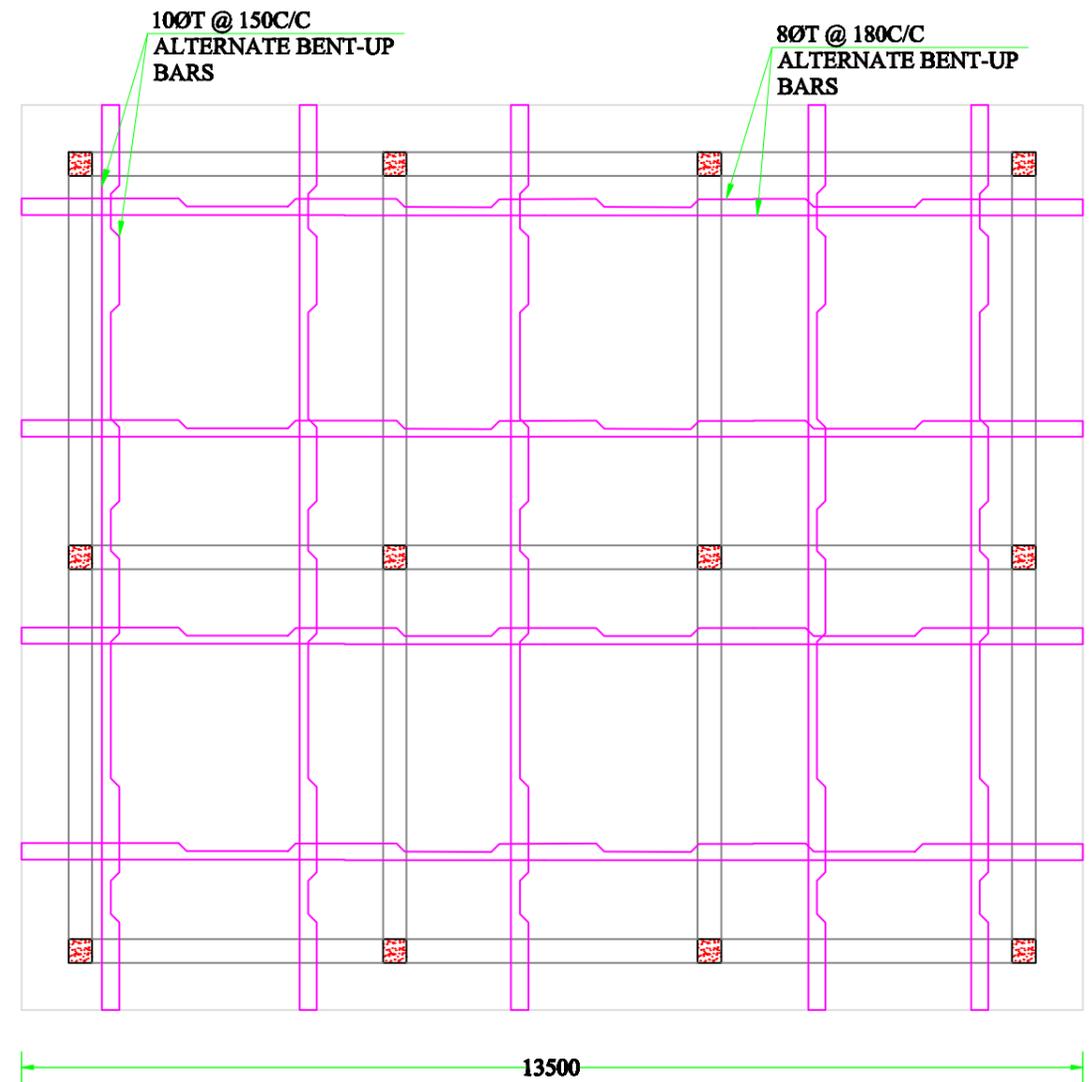
DRAWING CONTENTS: COMMUNITY HALL

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Agricultural Service Society



**DETAIL OF ROOF SLAB
(SLAB THICKNESS : 125mm)**



**DETAIL OF FLOOR SLAB
(SLAB THICKNESS : 150mm)**

Prepared by
BASIC CONSULTANT
(ENGINEERING CONSULTANT)
Corporate Office Address
SURVEY, Abanipali, HOUSE NO-47, GURUMATI,
KAMRUP (M), ASSAM, PIN-781005.
email:-basicconsultant@yahoo.com
Regional Office Address
N. RAMANANDA, B.D.ROAD,
BARSAKANI, ASSAM, PIN-781005
email:-basicconsultant@yahoo.com

DRAWING :
DETAIL OF ROOF SLAB & DETAIL OF FLOOR SLAB

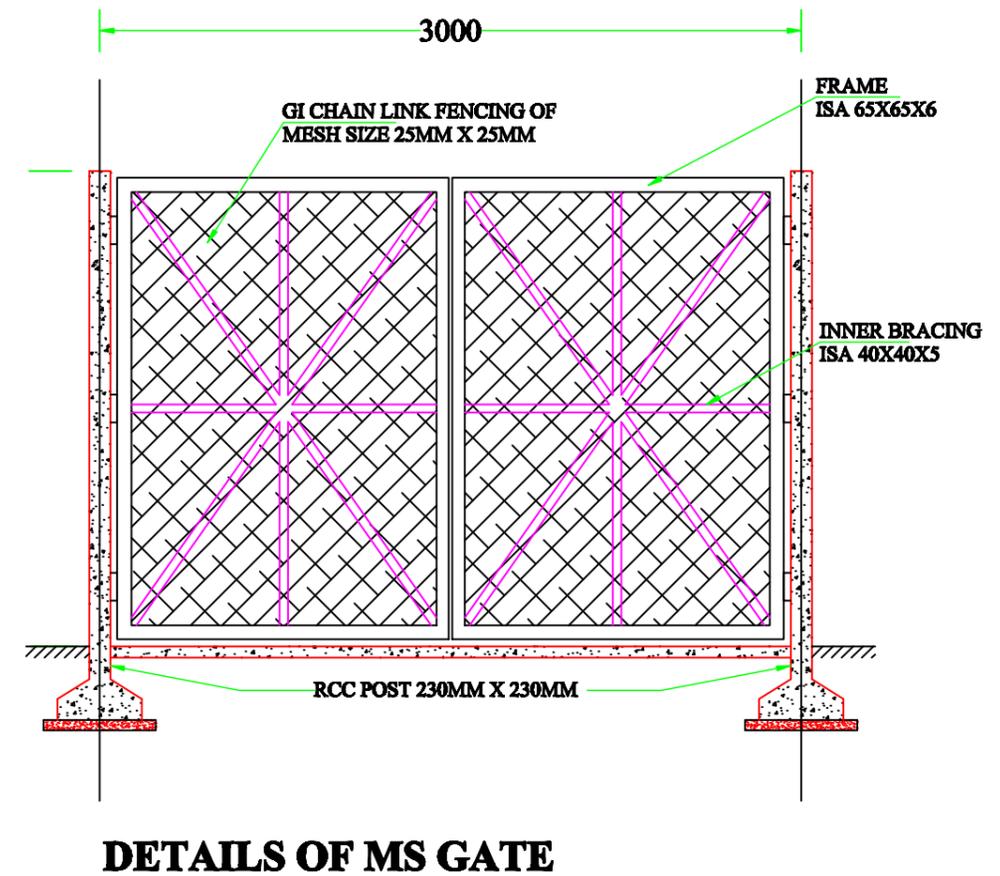
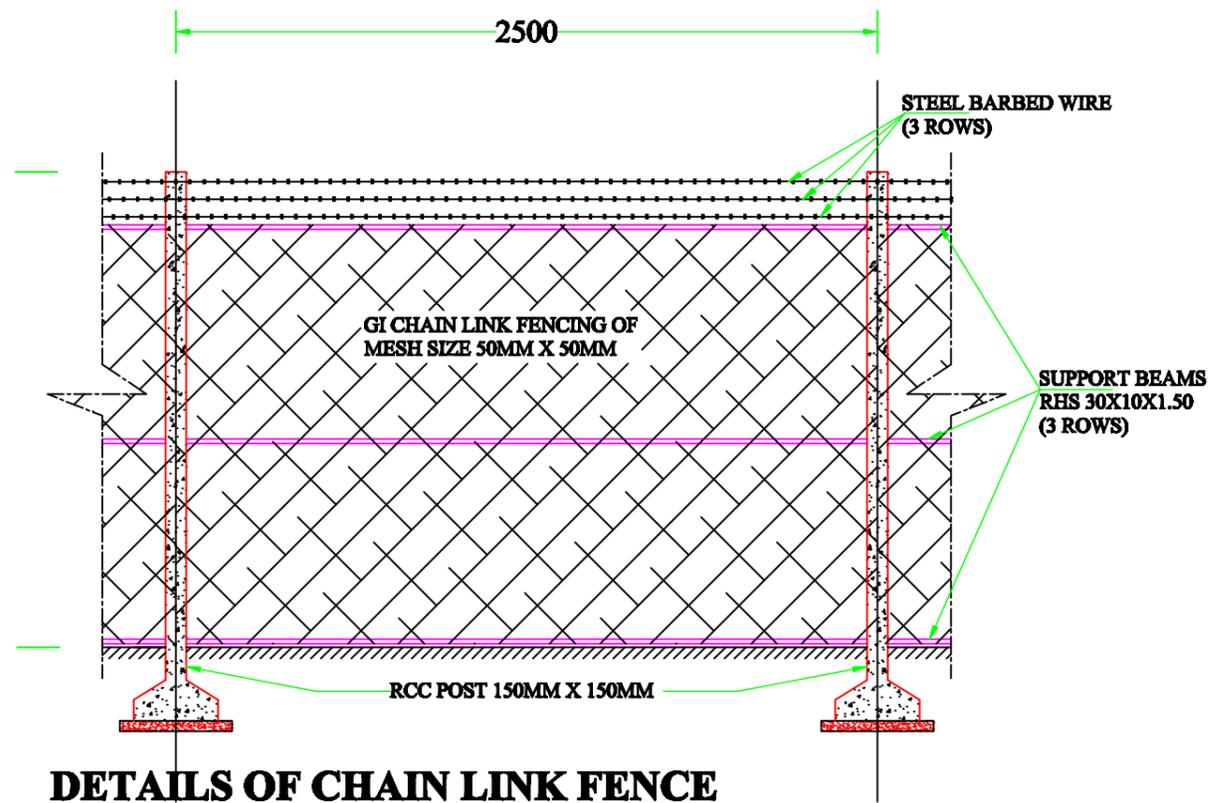
PROJECT TITLE:
Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

DRAWING No. :
ASSAM/SWIFT/GR-08/SD/04(C)

DRAWING CONTENTS: COMMUNITY HALL

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Prepared by
BASIC CONSULTANT
 (ENGINEERING CONSULTANT)
 Carpet office Address
 SURVEY, Agaria PATH, HOUSE NO-47, GURAMATI,
 KAMRUP Dist, ASSAM, PIN-781005.
 email:-basicconsultant@gmail.com
 Regd. Office Address
 N. RAMANBACH, B.D.ROAD,
 NABAGH, ASSAM, PIN-781005
 email:-basicconsultant02@gmail.com

DRAWING :
DETAILS OF CHAIN LINK FENCE & DETAILS OF MS GATE

PROJECT TITLE:
 Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

DRAWING No. :
 ASSAM/SWIFT/GR-08/SD/04(D)

DRAWING CONTENTS: COMMUNITY HALL

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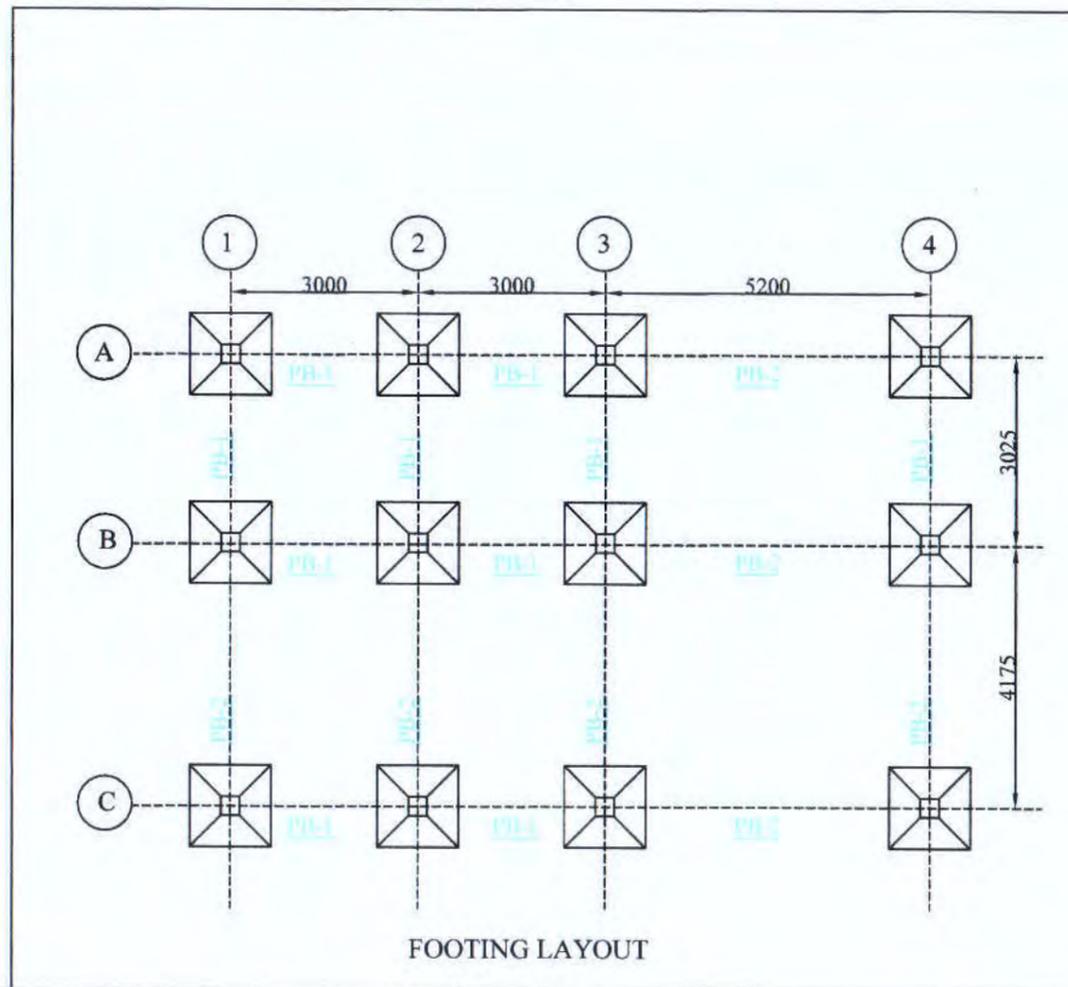
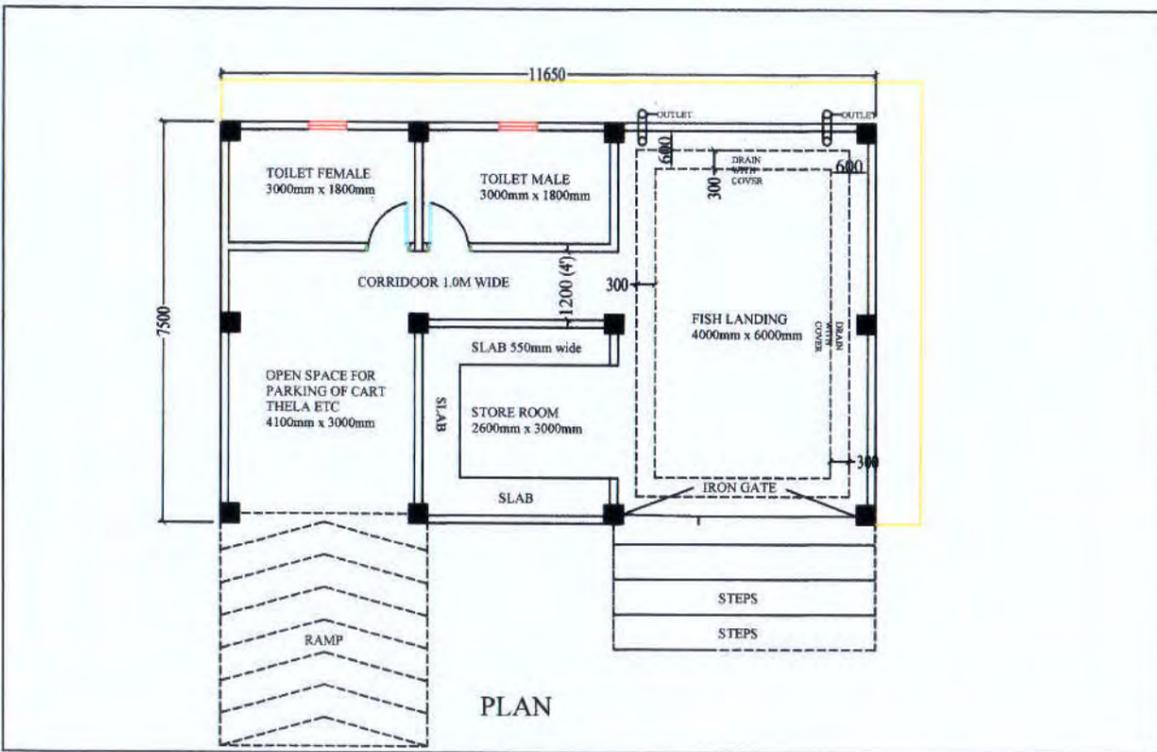
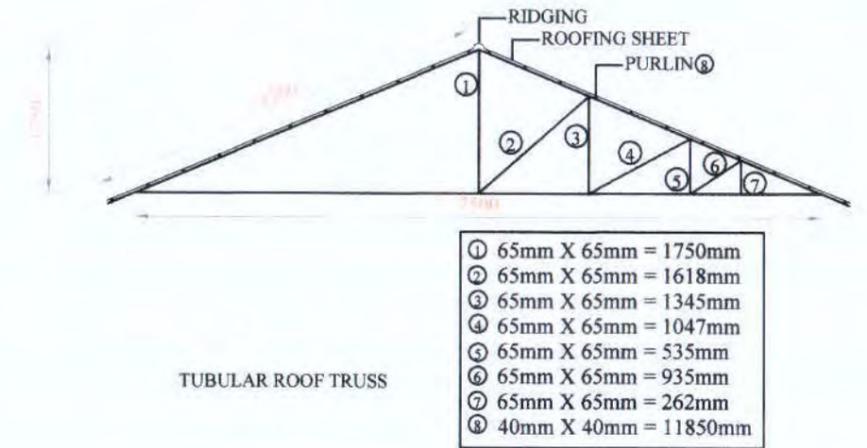
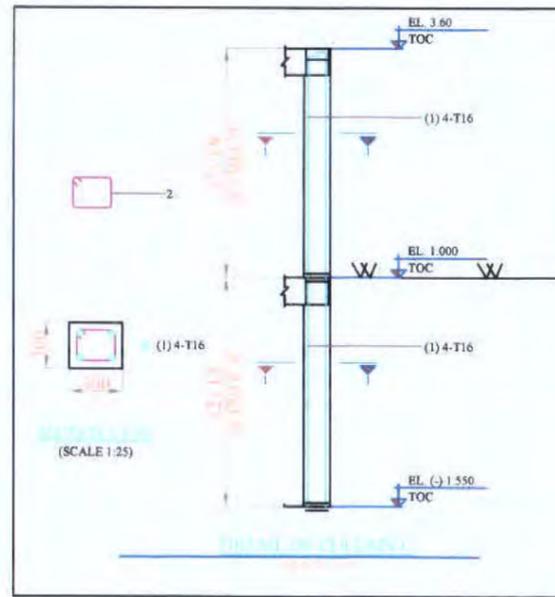
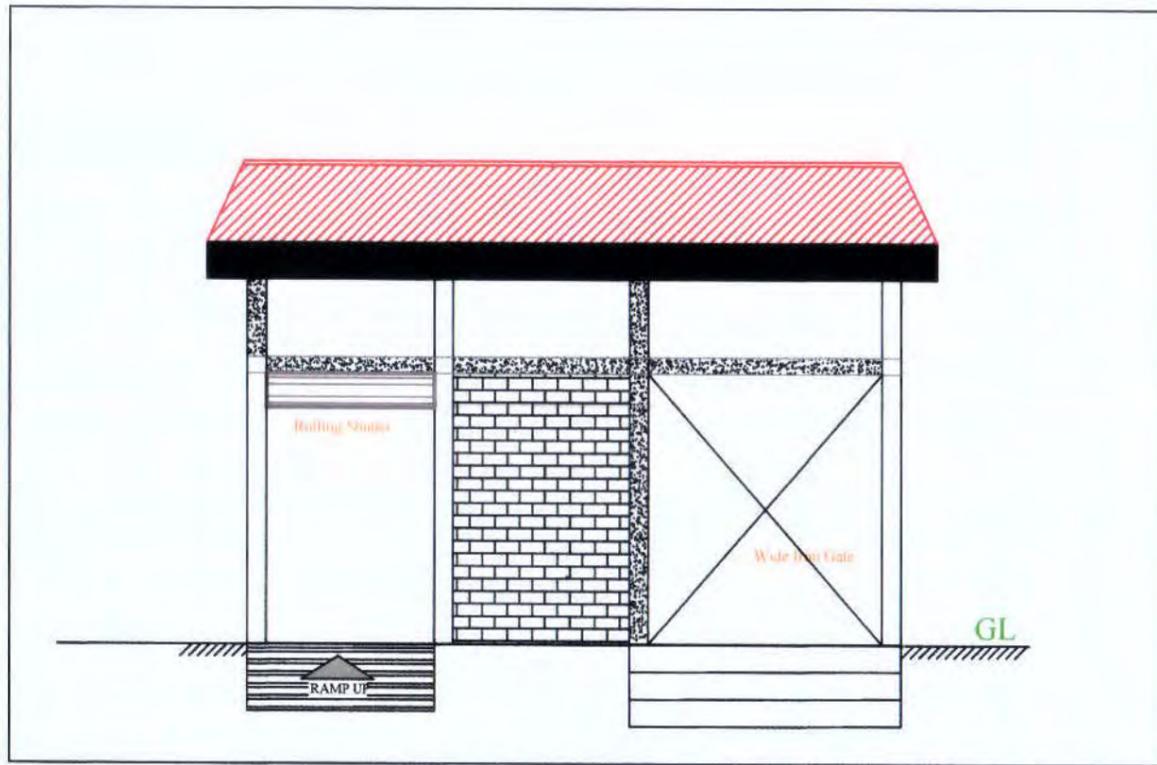
Prepared by
BASIC CONSULTANT
 (ENGINEERING CONSULTANT)
 Corprt office Address
 SURVEY, Ajanta PATH, HOUSE NO-27, GUWAHATI,
 KAMRUP (M), ASSAM, PIN-781028,
 email-basicconsultantghy@gmail.com
 Regd. Office Address
 N, HAIBARGAON, H.D.ROAD,
 NAGAON, ASSAM, PIN-782002
 email-basicconsultant99@gmail.com

DRAWING :
 SITE PLAN
 PROJECT TITLE:
 Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

DRAWING No. :
 ASSAM/SWIFT/GR-08/SD/05
 DRAWING CONTENTS: FISH LANDING CENTRE

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NOTE:

1. COLUMN SIZE = 300MM X 300MM
2. PLINTH BEAM SIZE = 300MM X 350MM
3. BEAM SIZE ABOVE GL = 200MM X 250MM
4. SIZE OF LINTEL = 150MM X 150MM
5. SIZE OF WINDOW = 1.50M X 1.20M
6. SIZE OF DOOR = 0.75M X 1.80M

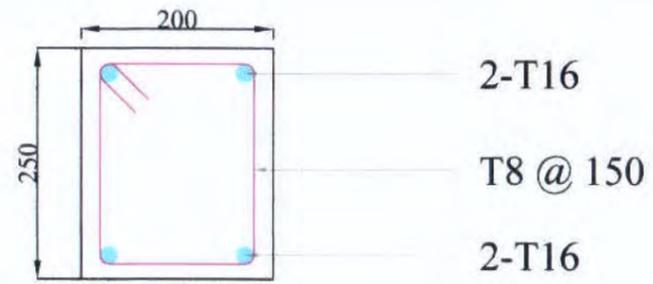
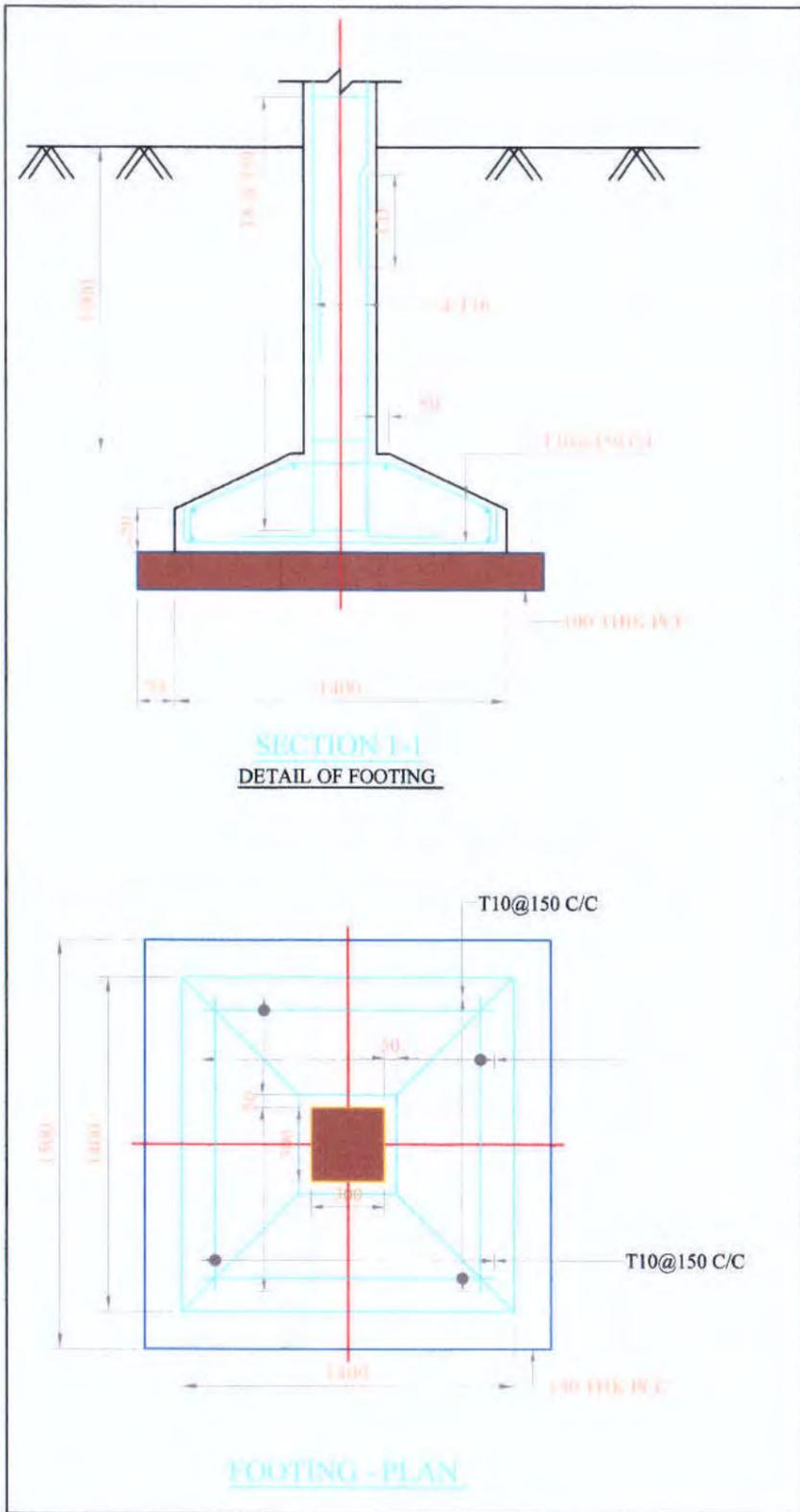
Prepared by
BASIC CONSULTANT
 (ENGINEERING CONSULTANT)
 Corprt office Address
 SURVEY, Ajanta PATH, HOUSE NO-27, GUWAHATI,
 KAMRUP (M), ASSAM, PIN-781025.
 email:-basicconsultantghy@gmail.com
 Regd. Office Address
 N. HAIBARGAON, M.D. ROAD,
 NAGAON, ASSAM, PIN-782002
 email:-basicconsultant99@gmail.com

DRAWING :
 PLAN, ELEVATION & CS OF FISH
 LANDING CENTRE

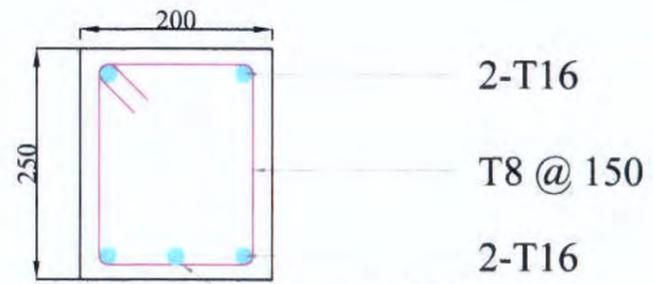
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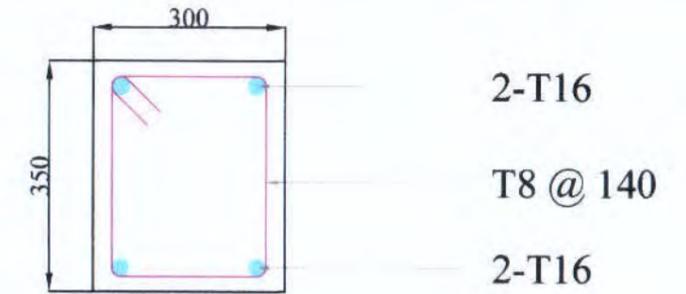
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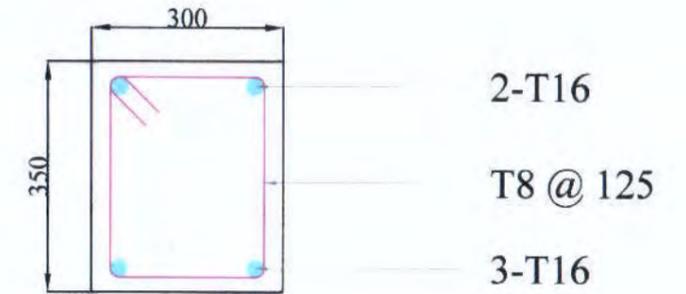
Beam above GL FB-1



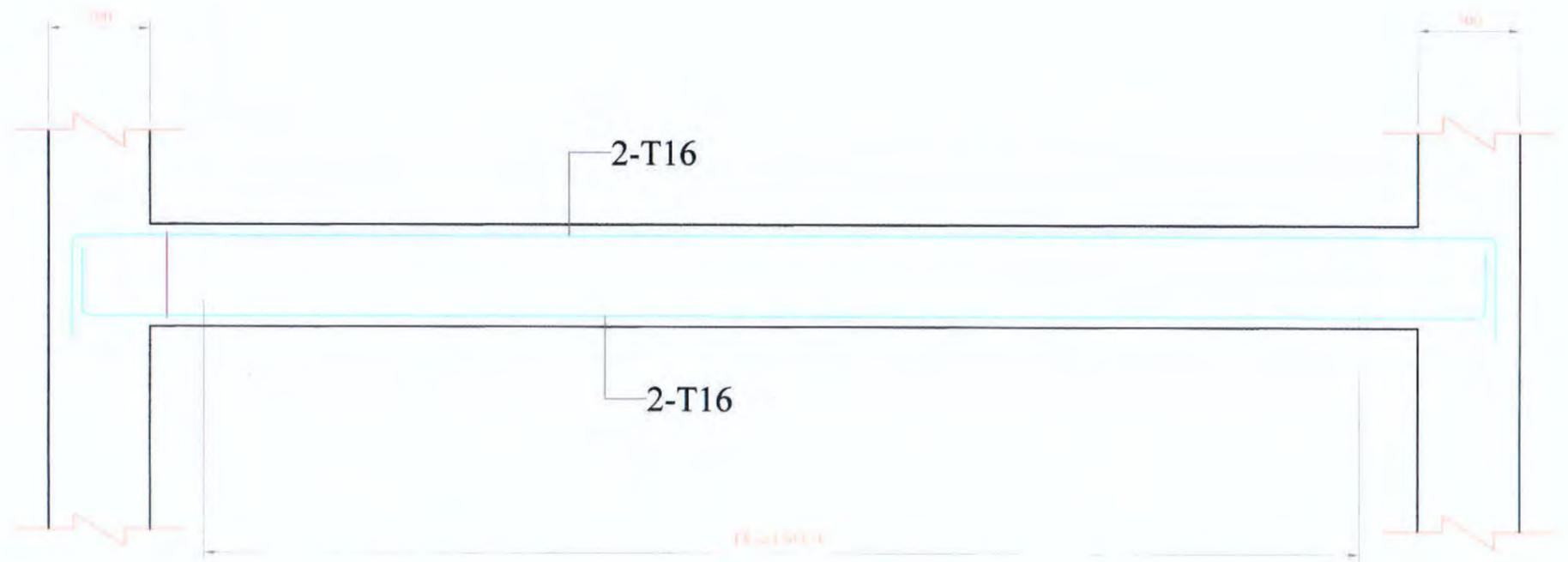
Beam above GL FB-2



Plinth Beam Section PB-1



Plinth Beam Section PB-2



BEAM: 300x350

(SCALE: H = 1:50 / V = 1:50)

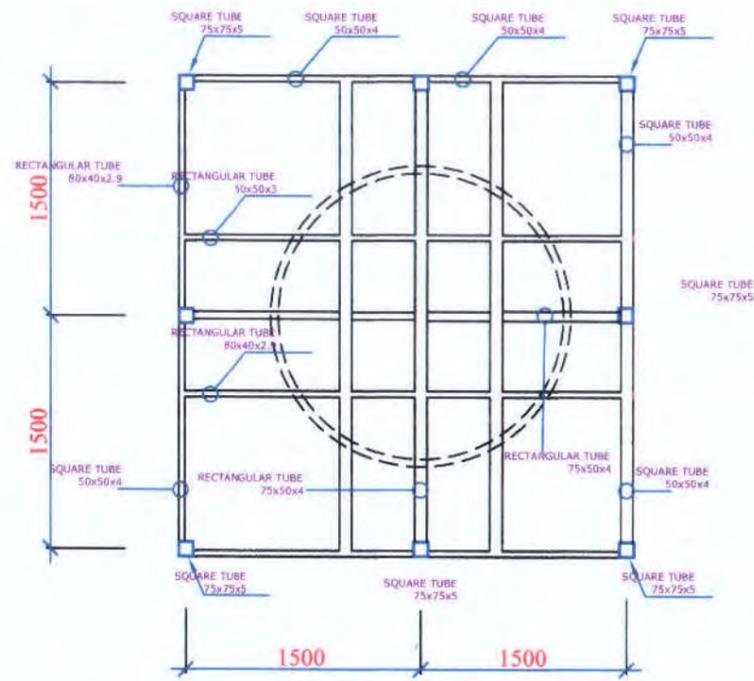
Prepared by
BASIC CONSULTANT
ENGINEERING CONSULTANT)
Corprt office Address
SURVEY, Ajeeta PATH, HOUSE NO-27, GUWAHATI,
KAMRUP (N), ASSAM, PIN-781022.
email:-basicconsultantghy@gmail.com
Regd. Office Address
N. HAIBARGAON, M.D.ROAD,
NAGAON, ASSAM, PIN-782002
email:-basicconsultant99@gmail.com

DRAWING :
STRUCTURAL DETAILS OF
FISH LANDING UNIT

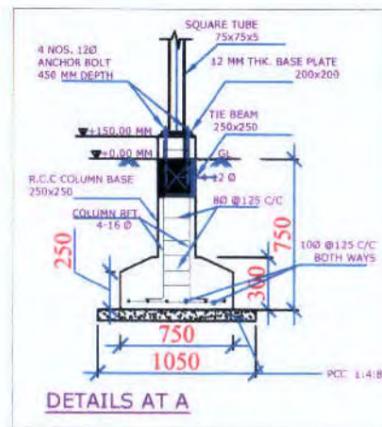
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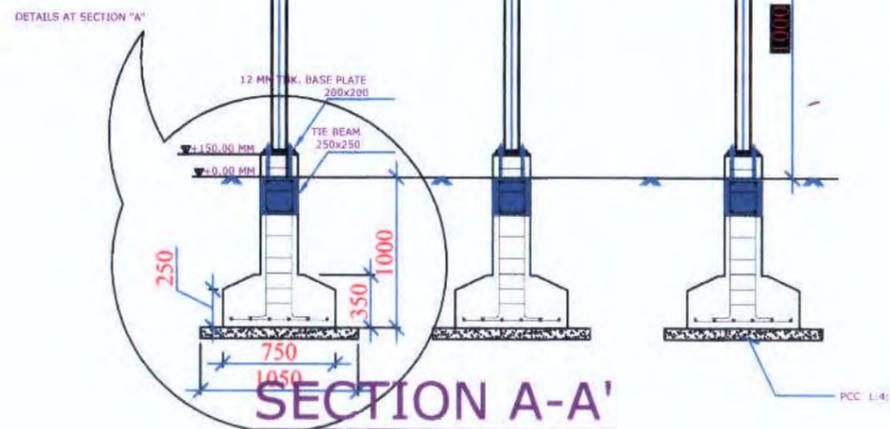
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ARRANGEMENT OF TOP PLATFORM



DETAILS AT A



SECTION A-A'

NOTES :-

1. ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE MENTIONED.
2. MINIMUM GRADE OF CONCRETE TO BE USED M20
3. MINIMUM GRADE OF REINFORCEMENT TO BE USED Fe 500
4. CLEAR COVER TO OUTER MOST REINFORCEMENT SHALL BE AS UNDER:-
FOR FOOTING : 50mm.
FOR TIE BEAM : 40mm

Prepared by
BASIC CONSULTANT

(ENGINEERING CONSULTANT)
 Court office Address
 SURVEY, Ajeeta PATH, HOUSE NO-27, GUMAHATI,
 KAMRUP (M), ASSAM, PIN-781026,
 email:- basicconsultant@yahoo.com

Head Office Address
 N. HARBARGAON, H.D. ROAD,
 NAGAON, ASSAM, PIN-782002
 email:- basicconsultant59@gmail.com

DRAWING :
OVER HEAD TANK

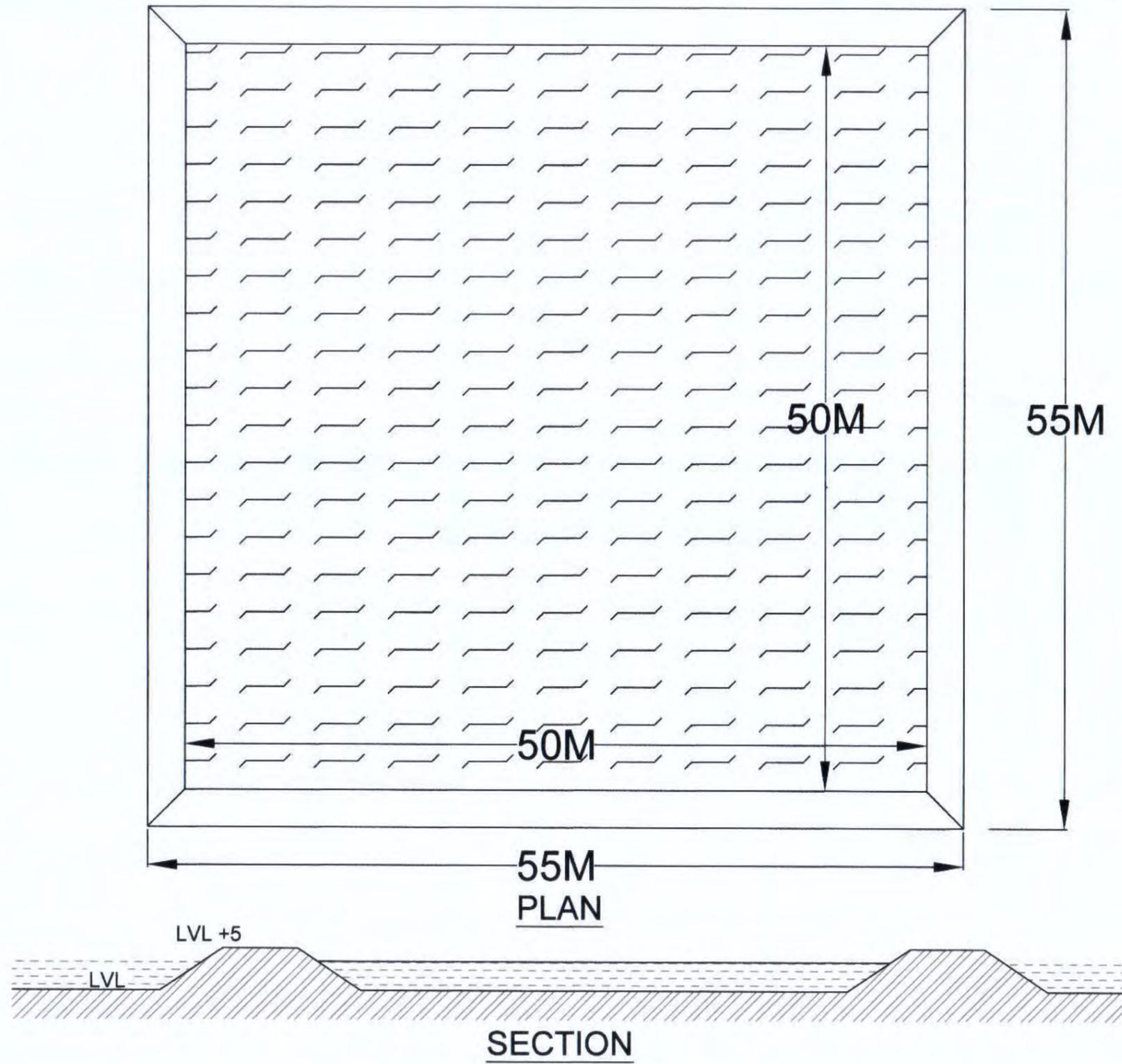
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TYPICAL PLAN & SECTION OF REARING TANK



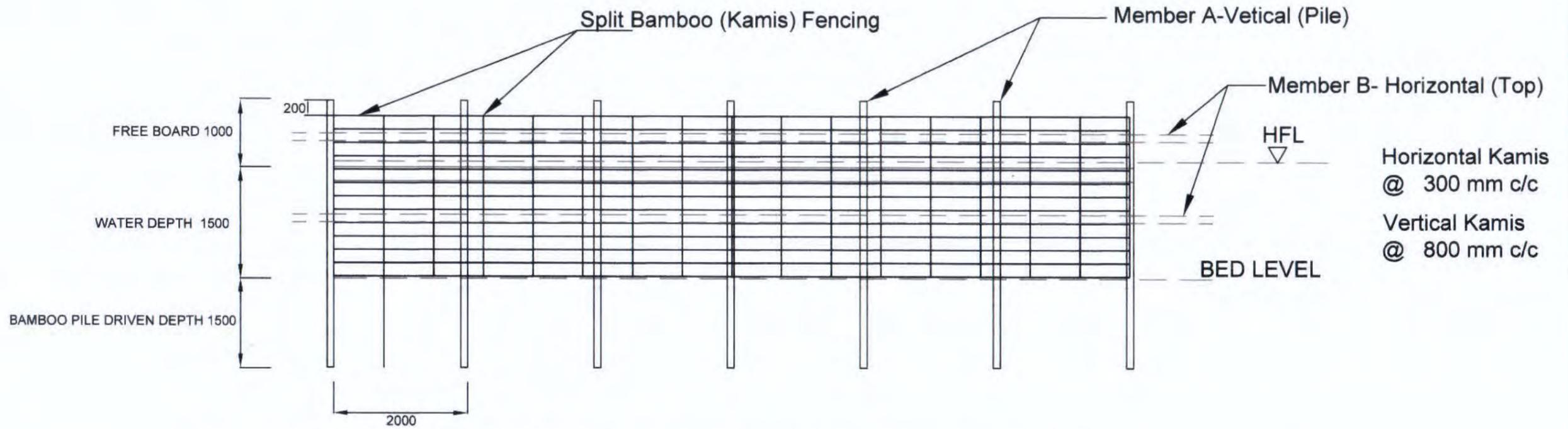
BASIC CONSULTANT
 (ENGINEERING CONSULTANT)
 Corp. office Address
 SURVEY, Ajanta PATH, HOUSE NO-27, GUWAHATI,
 KAMRUP (M), ASSAM, PIN-781028.
 email:-basicconsultantghy@gmail.com
 Regd. Office Address
 N. HAIBARGACH, H.D. ROAD,
 NAGAON, ASSAM, PIN-782002
 email:-basicconsultant199@gmail.com

DRAWING :
 PLAN & TYP. CS OF REARING TANK

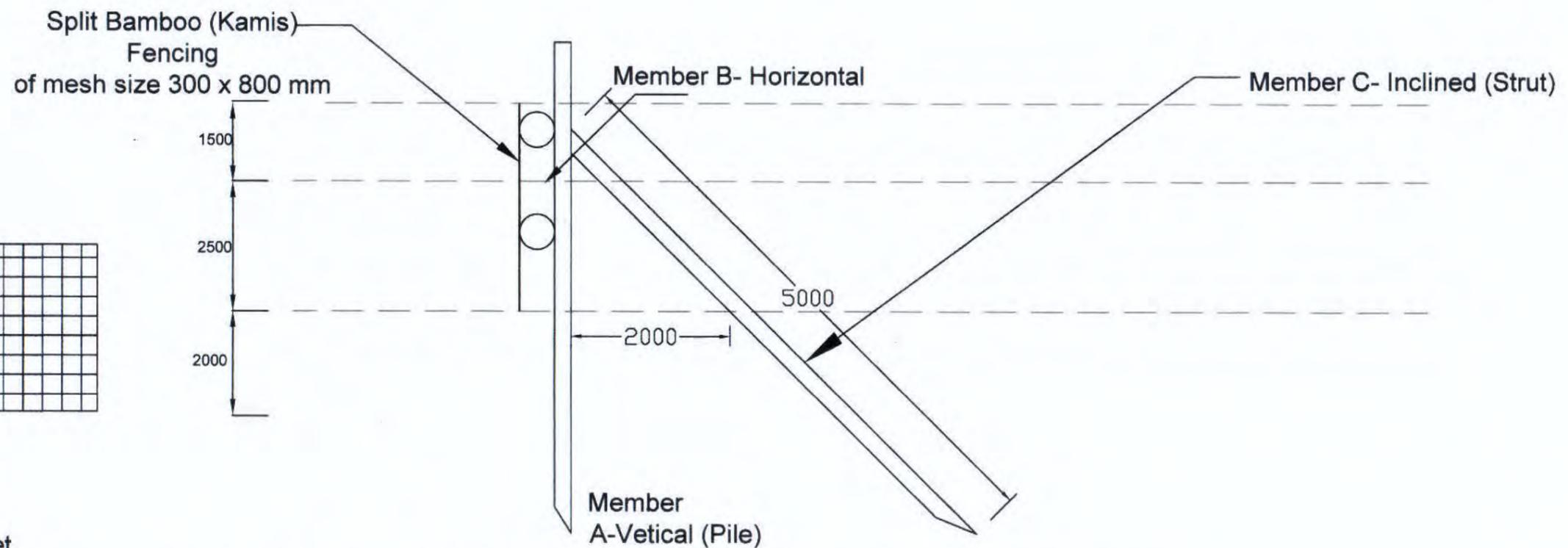
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PEN CULTURE STRUCTURE AT BEEL / WETLAND FISHERIES. (FRONT - ELEVATION)



PEN CULTURE STRUCTURE AT BEEL / WETLAND FISHERIES. (SIDE - ELEVATION)

BASIC CONSULTANT
(ENGINEERING CONSULTANT)

Corprt office Address
SURVEY, Ajmha PATH, HOUSE NO-27, GUWAHATI,
KAMRUP (M), ASSAM, PIN-781028.
email:-basicconsultant9@gmail.com

Regd. Office Address
N. HABARGAON, N.D.ROAD,
NAGAON, ASSAM, PIN-782002
email:-basicconsultant9@gmail.com

DRAWING :

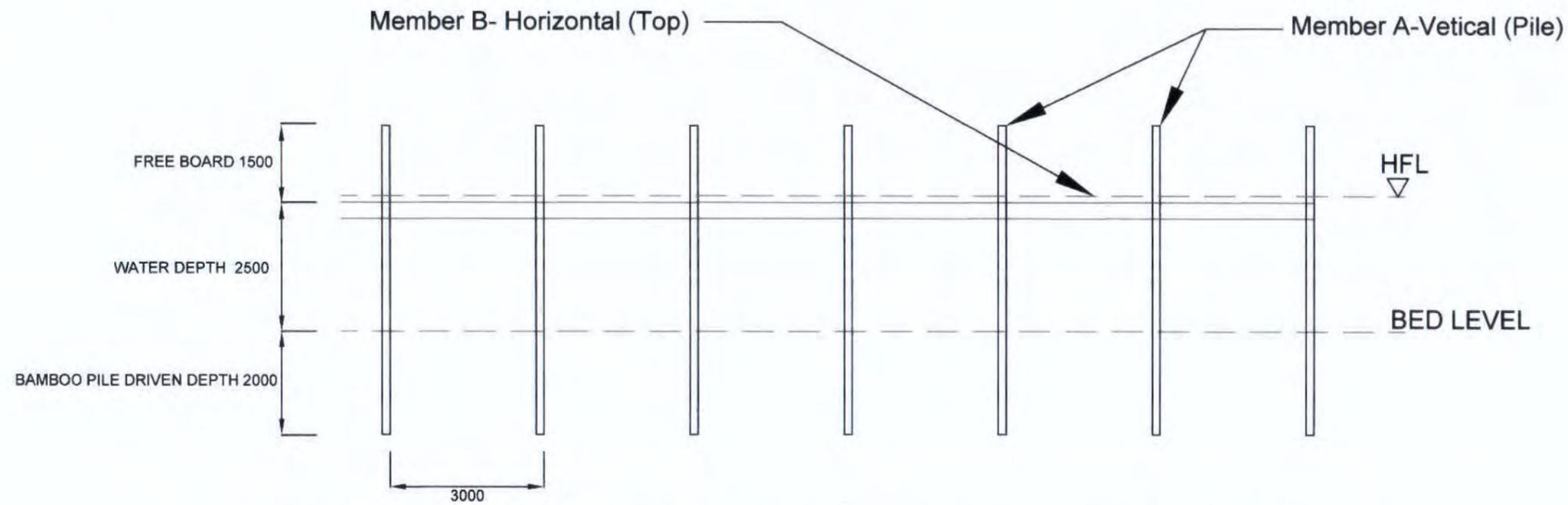
GENERAL ARRANGEMNT OF PEN CULTURE

DRAWING No. :

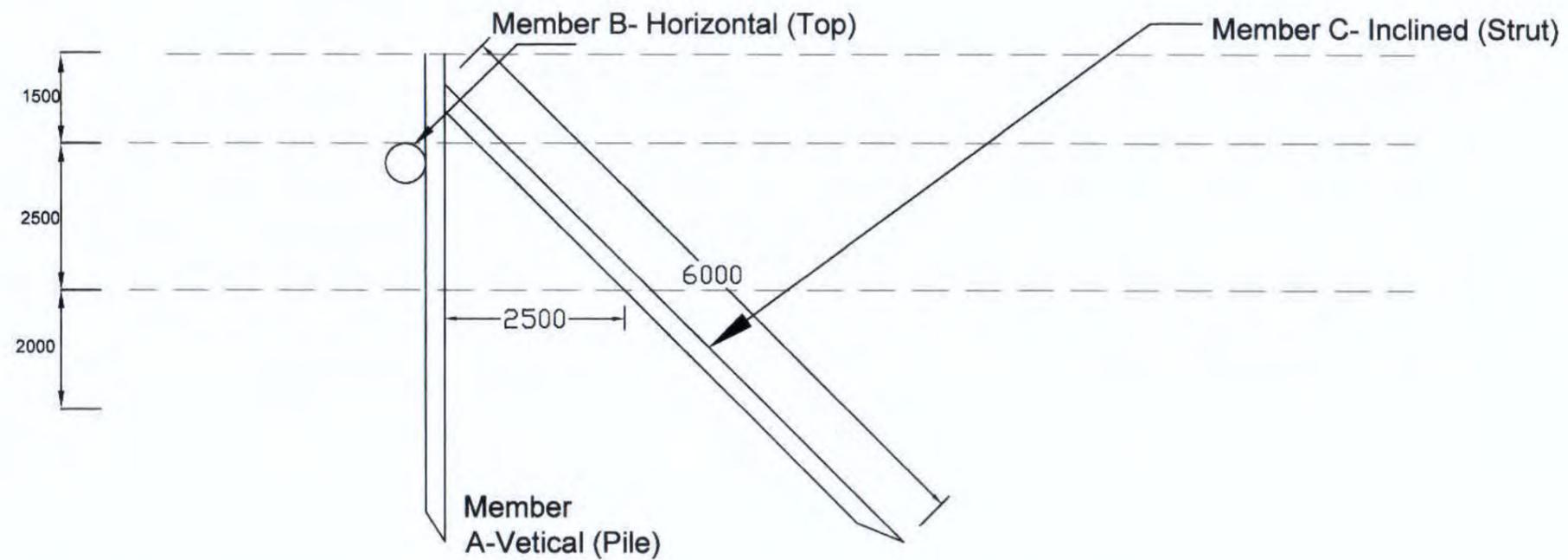
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KATAL / CATTLE FISHING STRUCTURE AT BEEL / WETLAND FISHERIES. (FRONT - ELEVATION)



KATAL / JENG STRUCTURE AT BEEL / WETLAND FISHERIES. (SIDE - ELEVATION)

BASIC CONSULTANT
(ENGINEERING CONSULTANT)

Corprt Office Address
SURVEY, Agents PATH, HOUSE NO-37, GUWAHATI,
KAMRUP (N), ASSAM, PIN-781028.
email:-basicconsultantghy@gmail.com

Ragd. Office Address
N. HAIBARGACH, M.D.ROAD,
HAIBAGH, ASSAM, PIN-782002
email:-basicconsultant99@gmail.com

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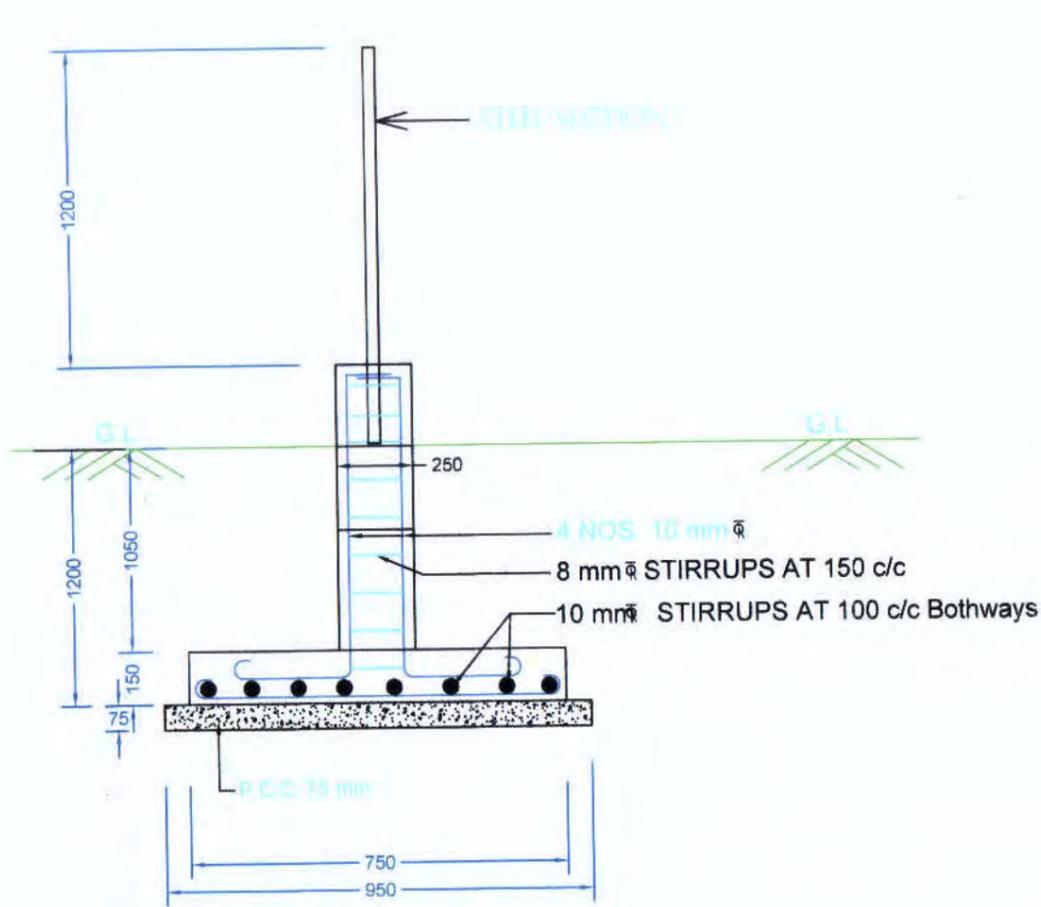
GENERAL ARRANGEMNT OF KATAL/JENG

DRAWING No. :

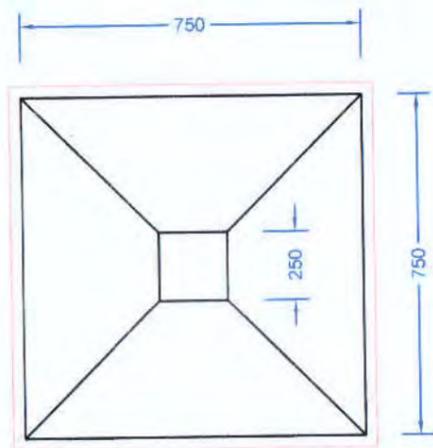
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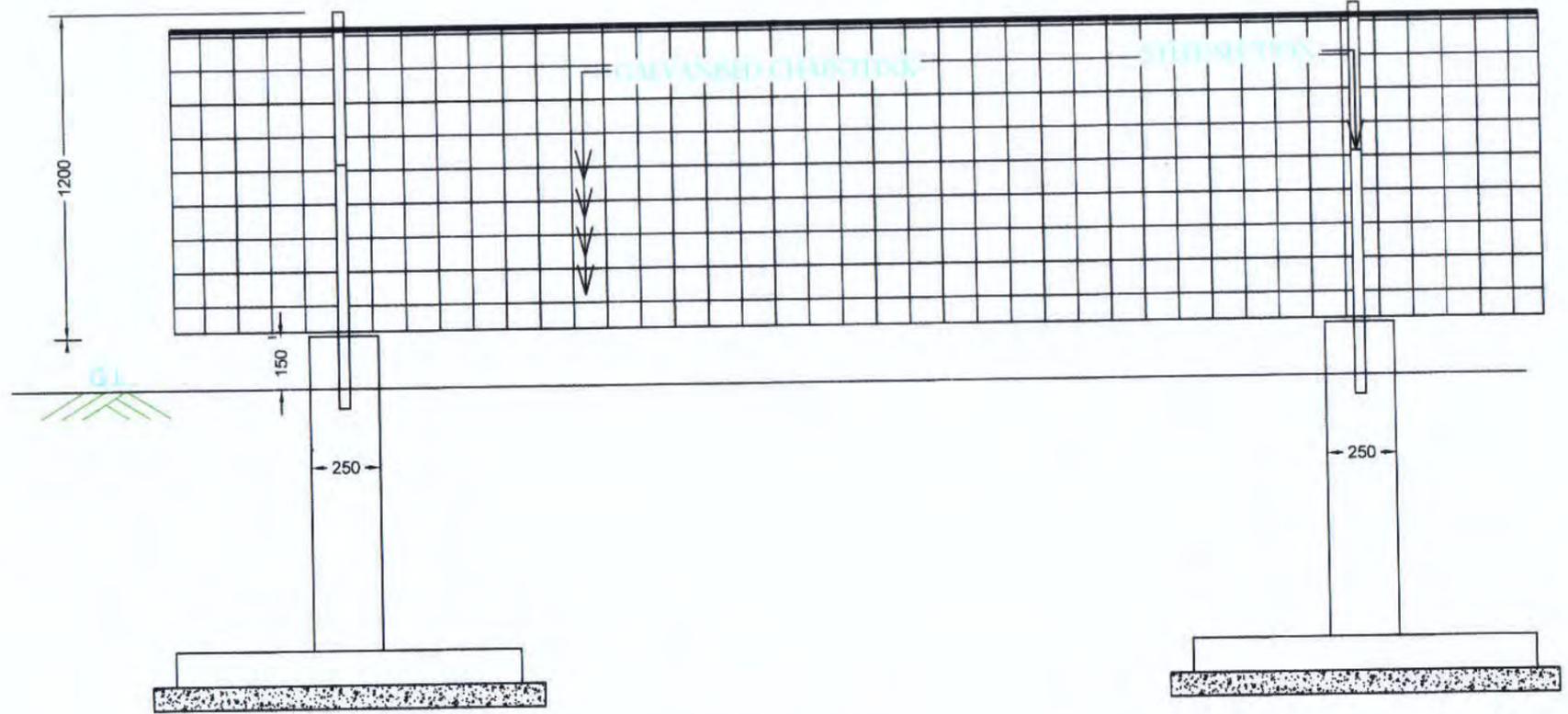
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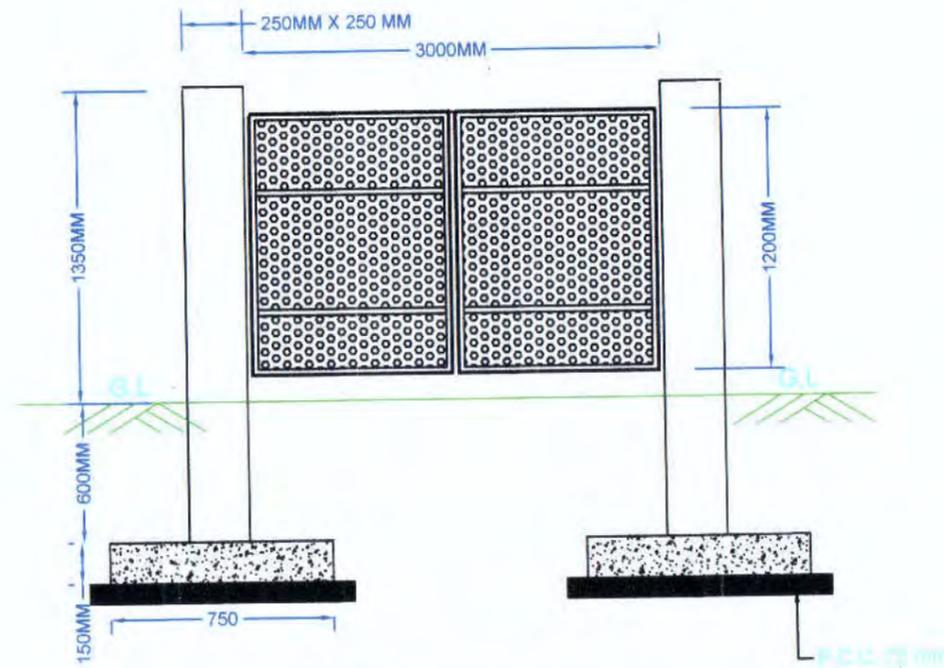
DETAIL OF FOOTING & COLUMN



PLAN FOR FOUNDATION



ELEVATION OF FENCING



ELEVATION OF IRON GATE

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(ENGINEERING CONSULTANT)

Corprt office Address
SURVEY, Ajanis PATH, HOUSE NO-37, DUWAHATI,
KAMRUP (M), ASSAM, PIN-781028.
email:-basicconsultantghy@gmail.com

Regd. Office Address
N. HAJBARGAON, M.D.ROAD,
NAGAON, ASSAM, PIN-782902
email:-basicconsultant99@gmail.com

DRAWING :

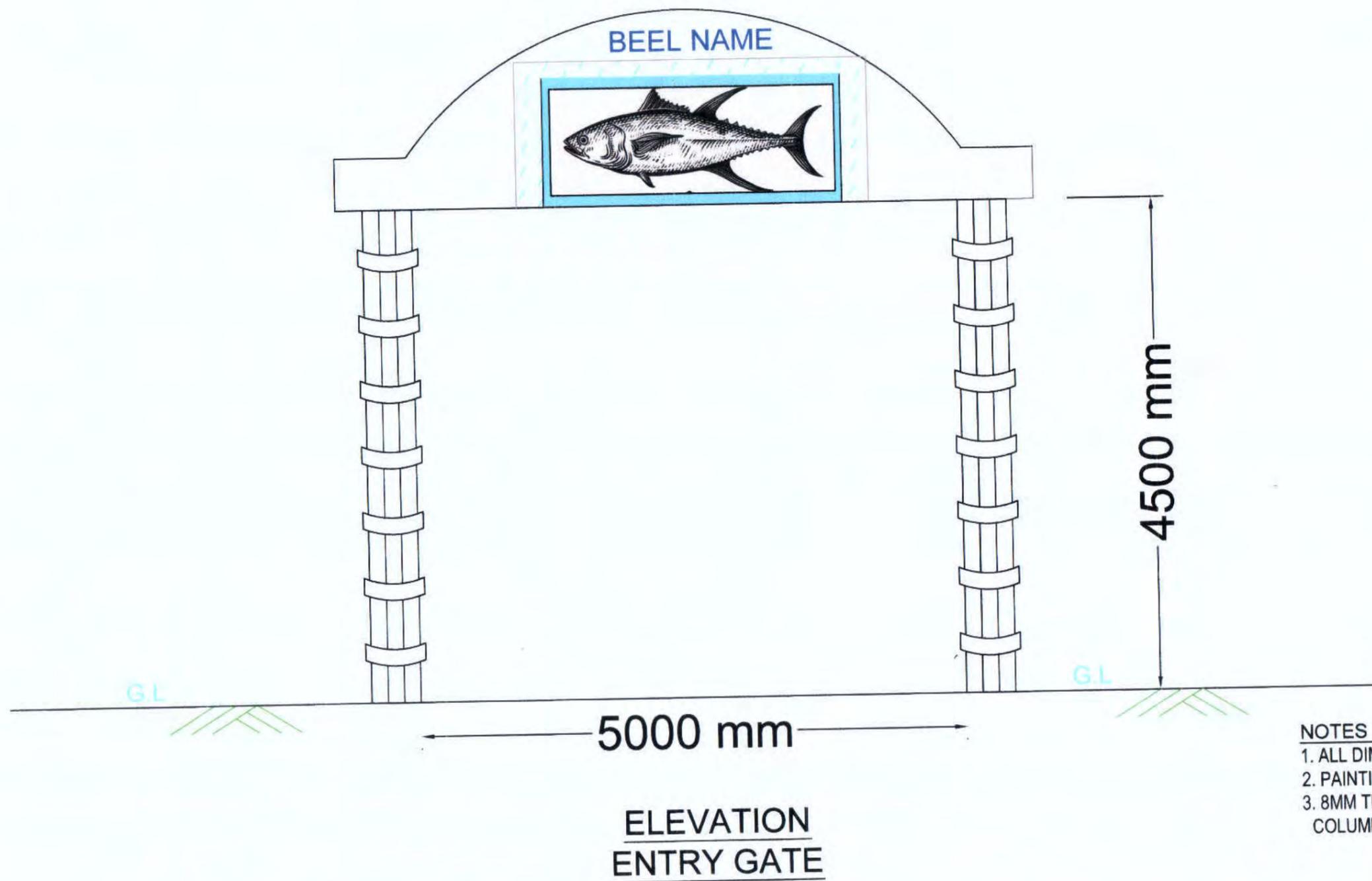
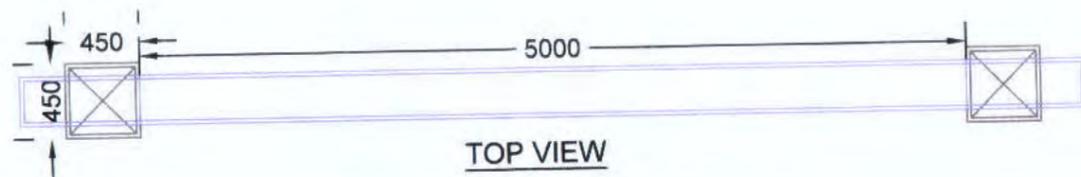
PLAN & CS OF FENCING WITH IRON GATE

DRAWING No. :

ASSAM/SWIFT/GR-08/SD/10

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- NOTES :-
1. ALL DIMENSIONS ARE IN MM, UNLESS OTHERWISE MENTIONED.
 2. PAINTING ITEMS ARE USED ON THE TOP WALL & BEAMSECTION
 3. 8MM THICK GRANITE STONE TILE WORK ARE PROVIDED AROUND THE COLUMN .

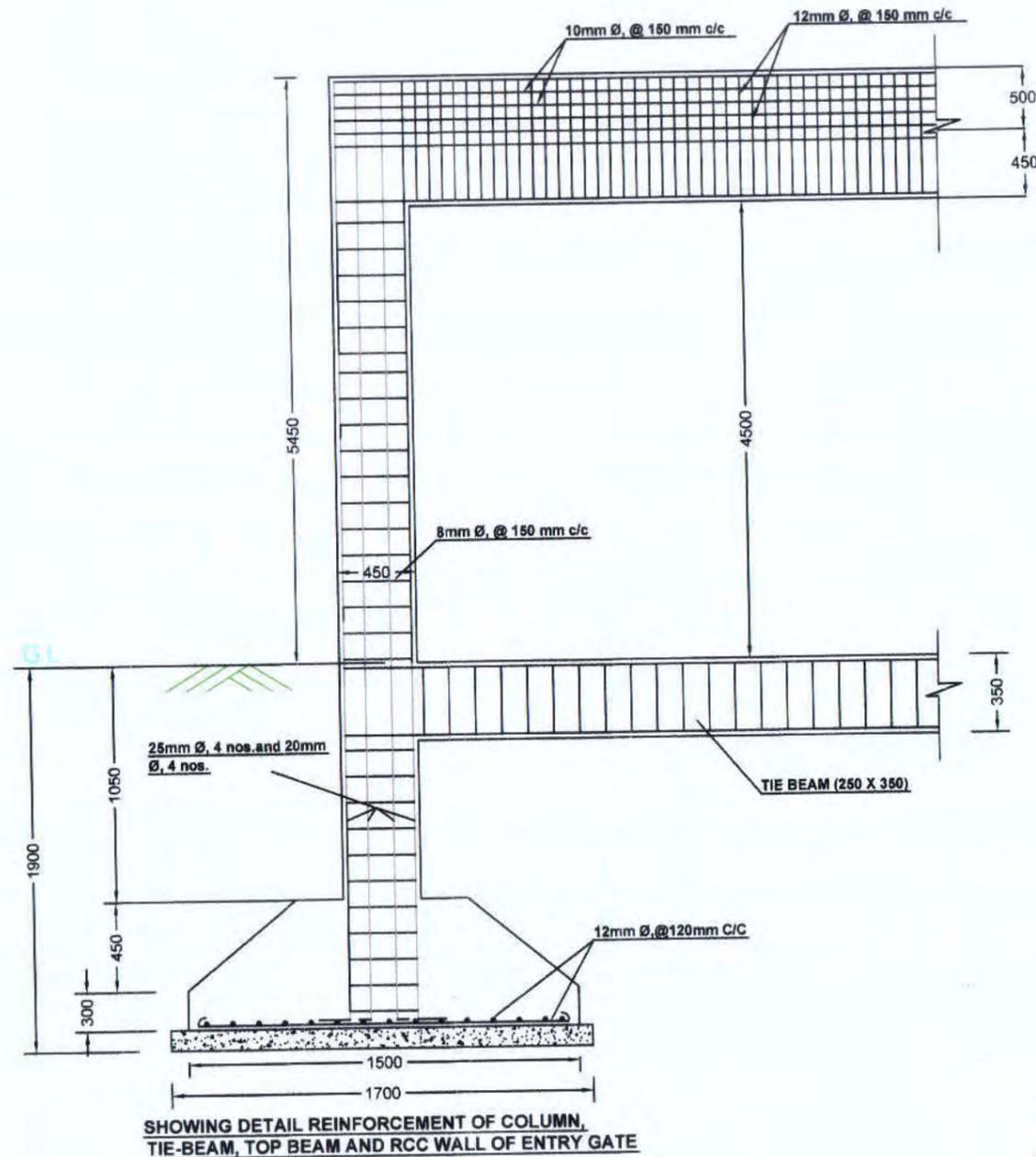
Prepared by
BASIC CONSULTANT
(ENGINEERING CONSULTANT)
Corprt office Address
SURVEY, Ajanta PATH, HOUSE NO-27, GUWAHATI,
KAMRUP (M), ASSAM, PIN-781028.
email:-basicconsultant9@gmail.com
Regd. Office Address
N. HAIBARGAON, M.D.ROAD,
NAGAON, ASSAM, PIN-782003
email:-basicconsultant9@gmail.com

DRAWING :
PLAN & ELEVATION OF
ENTRY GATE

DRAWING No. :
ASSAM/SWIFT/GR-08/SD/11(A)

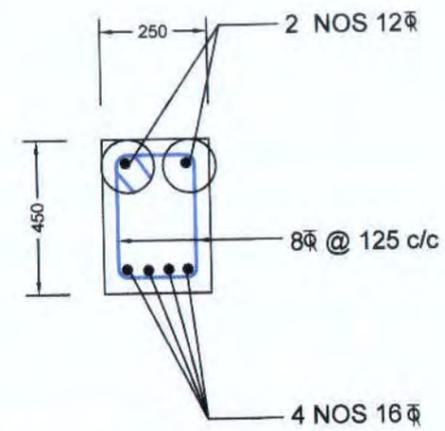
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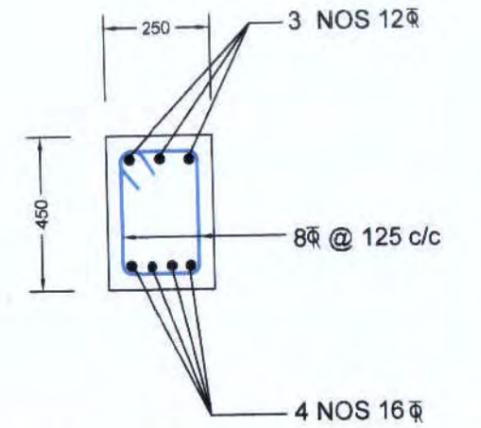


SHOWING DETAIL REINFORCEMENT OF COLUMN, TIE-BEAM, TOP BEAM AND RCC WALL OF ENTRY GATE

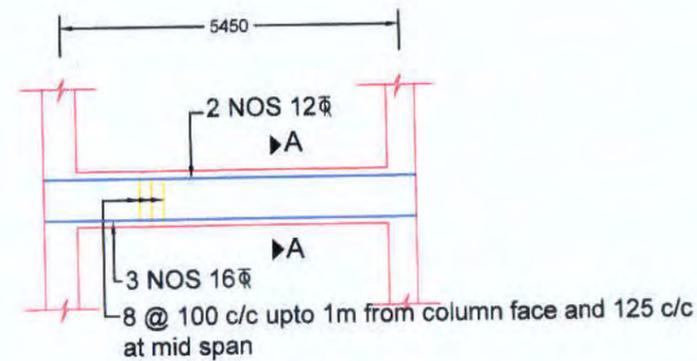
RCC WALL 200mm thick
TOP BEAM (250 x 450)



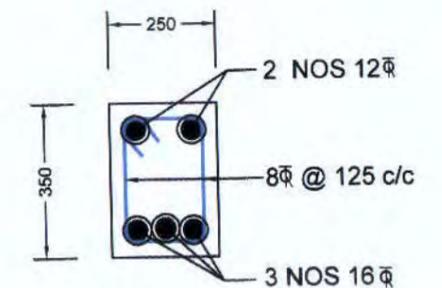
SECTION AT MID SPAN FOR TOP BEAM



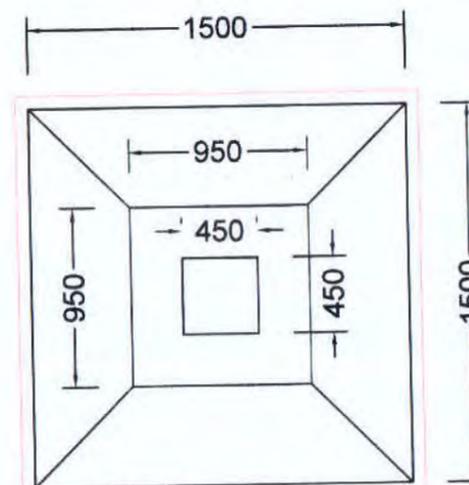
SECTIONS NEAR SUPPORT FOR TOP BEAM



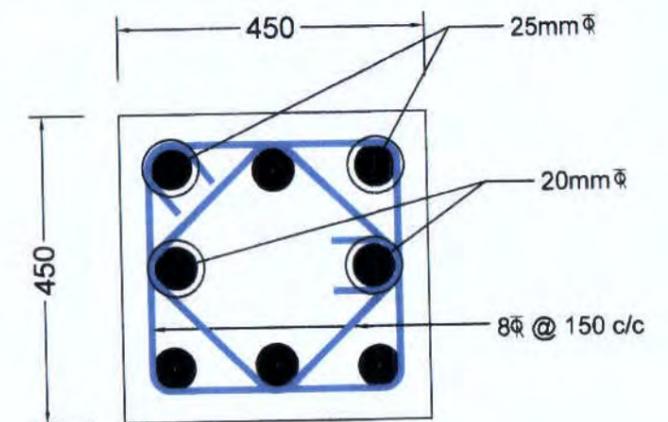
DETAIL OF TIE BEAM



SEC - AA



PLAN FOR FOUNDATION



COLUMN CROSS SECTION

NOTES :-

1. ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE MENTIONED.
2. MINIMUM GRADE OF CONCRETE TO BE USED M20
3. MINIMUM GRADE OF REINFORCEMENT TO BE USED Fe 500
4. CLEAR COVER TO OUTER MOST REINFORCEMENT SHALL BE AS UNDER:-
FOR COLUMN : 40mm.
FOR FOOTING : 50mm.
FOR TIE BEAM : 40mm
FOR LINTELS : 25mm

Prepared by
BASIC CONSULTANT

(ENGINEERING CONSULTANT)
Corprt office Address
SURVEY, Ajeeta PATH, HOUSE NO-27, GUWAHATI,
KAMRUP (M), ASSAM, PIN-781028.
email:-basicconsultant9@gmail.com

Regd. Office Address
N. HAIBARGAON, N.D.ROAD,
NAGAON, ASSAM, PIN-782002
email:-basicconsultant99@gmail.com

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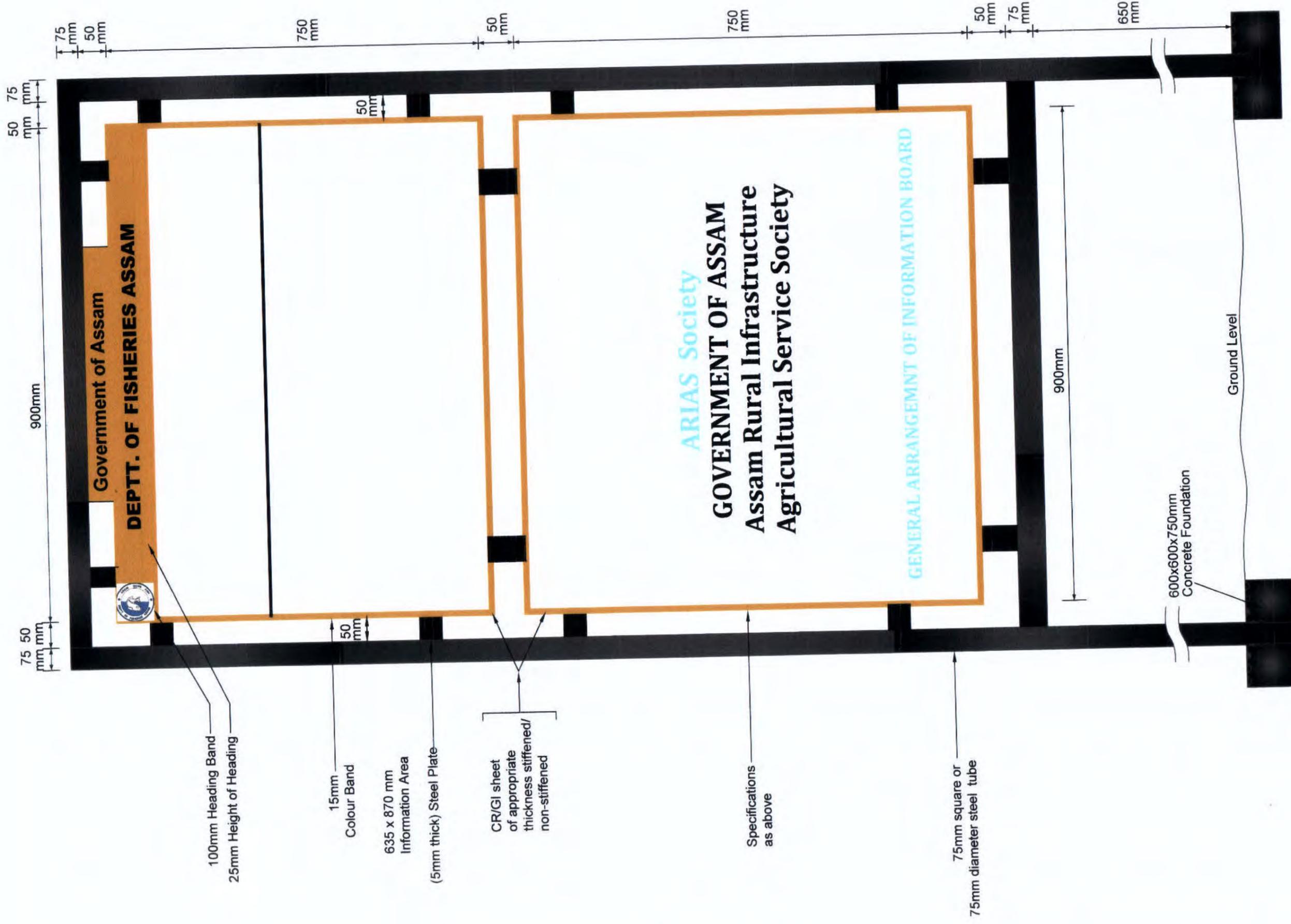
STRUCTURAL DETAILS OF ENTRY GATE

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100mm Heading Band
25mm Height of Heading

15mm
Colour Band
635 x 870 mm
Information Area

(5mm thick) Steel Plate

CR/GI sheet
of appropriate
thickness stiffened/
non-stiffened

Specifications
as above

75mm square or
75mm diameter steel tube

600x600x750mm
Concrete Foundation

Ground Level

BASIC CONSULTANT
(ENGINEERING CONSULTANT)

Consult Office Address
PATA HOUSE NO-27, GUWAHATI,
KAMRUP, PIN, ASSAM, PIN-781001
email: -basicconsultant@yahoo.com

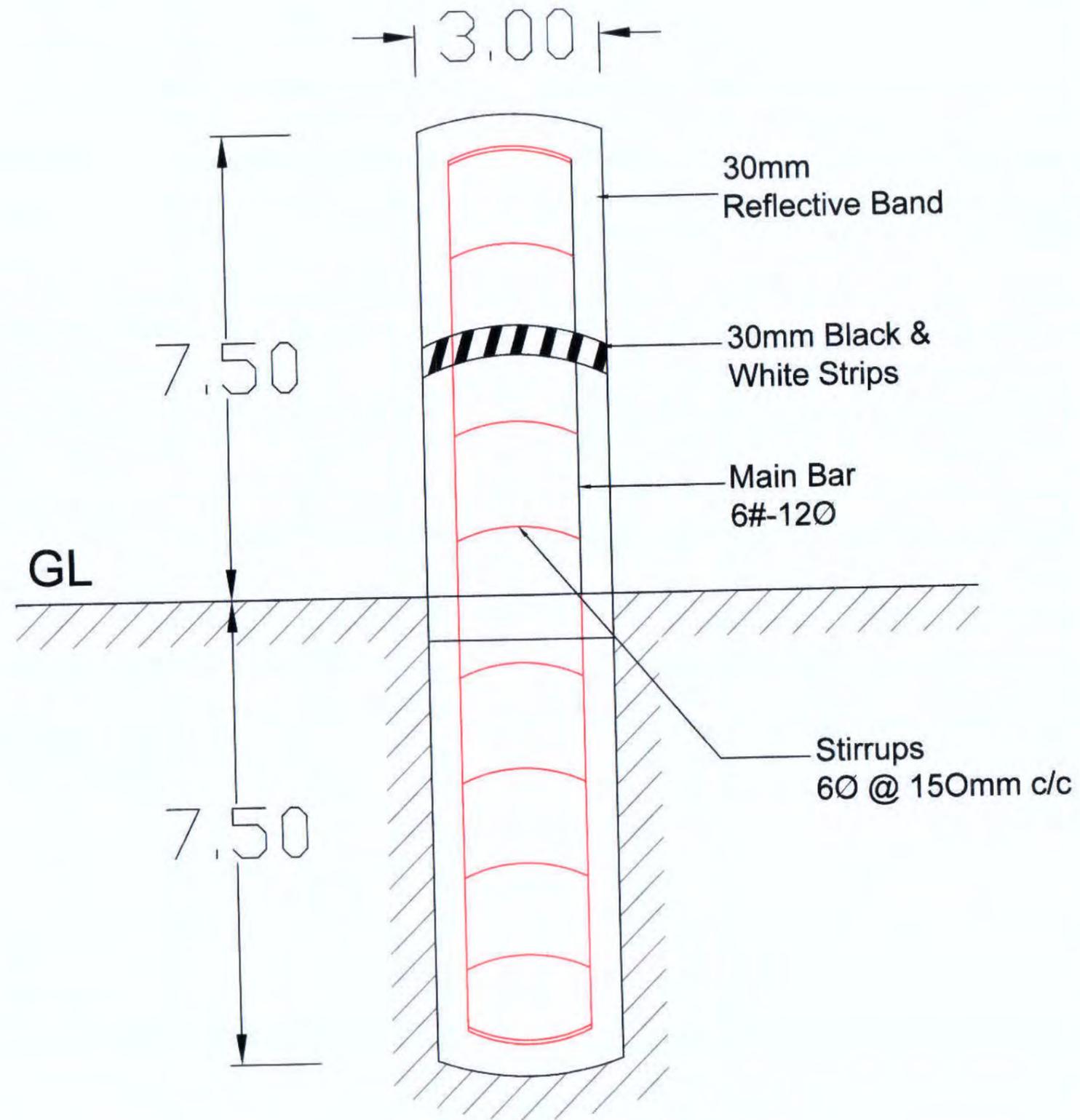
Head Office Address
10, MANIKAGAN, M D ROAD,
MAJULI, ASSAM, PIN-782001

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Assam Rural Infrastructure
Agricultural Service Society



BASIC CONSULTANT
(ENGINEERING CONSULTANT)

Corpt. Office Address
SURVEY, Ajanta PATH, HOUSE NO-27, GUWAHATI,
KAMRUP (M), ASSAM, PIN-781028.
email: basicconsultantghy@gmail.com

Regd. Office Address
N. HABARGACH, M.D. ROAD,
NAGAOH, ASSAM, PIN-782002
email: basicconsultant99@gmail.com

DRAWING :

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PILLAR

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