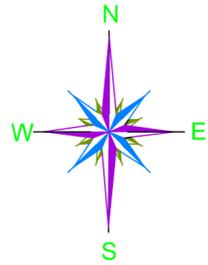


MASTERPLAN LAYOUT OF BORGORIA BEEL



PROPOSED WORKS	
DESCRIPTION OF WORK	SPECIFICATION
Inlet Channel	0 m
Outlet Channel	0 m
Silt Trap	0 m
Bamboo Barrage at Outlet	95 m
Earthen Bund	2280 m (TW - 2m & Height - 2m)
Desilting	42686 Cu. m
Deweeding	120389 Sq. m
Fish Rearing Tank	3 Nos. (50 m X 30 m)
Fish Landing Cum Community Hall	1 Nos
Pen Culture	6 Nos
Vermicompost Pit	-
Approach Road	790 m (400 m X 300 m)
Demarcation Pillar	58 Nos

PACKAGE NO.:	03
NAME OF THE BEEL:	BORGORIA BEEL
DEVELOPMENT BLOCK:	MORONGI
REVENUE VILLAGE:	BORGORIA, PONKA
DISTRICT:	GOLAGHAT
AREA (Ha):	30.00 Ha

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



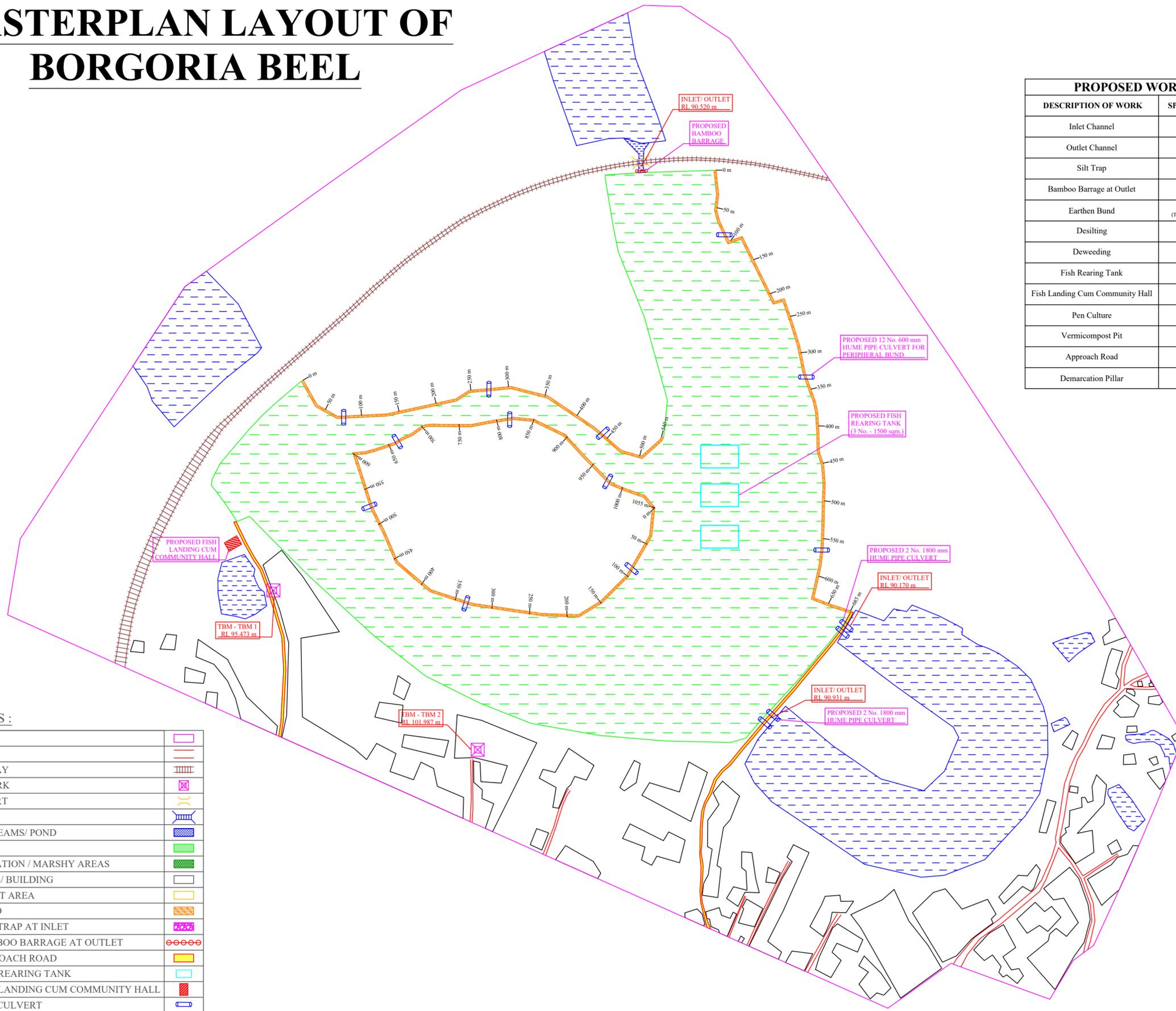
DWG TITLE :
MASTERPLAN LAYOUT OF BORGORIA BEEL

DATE :	
CHECKED BY:	SUBMITTED TO:
	RECOMMENDED BY:
	APPROVED BY:

DATE :	DATE :	DATE :	DATE :
TEAM LEAD	A.E.	E.E.	S.E.

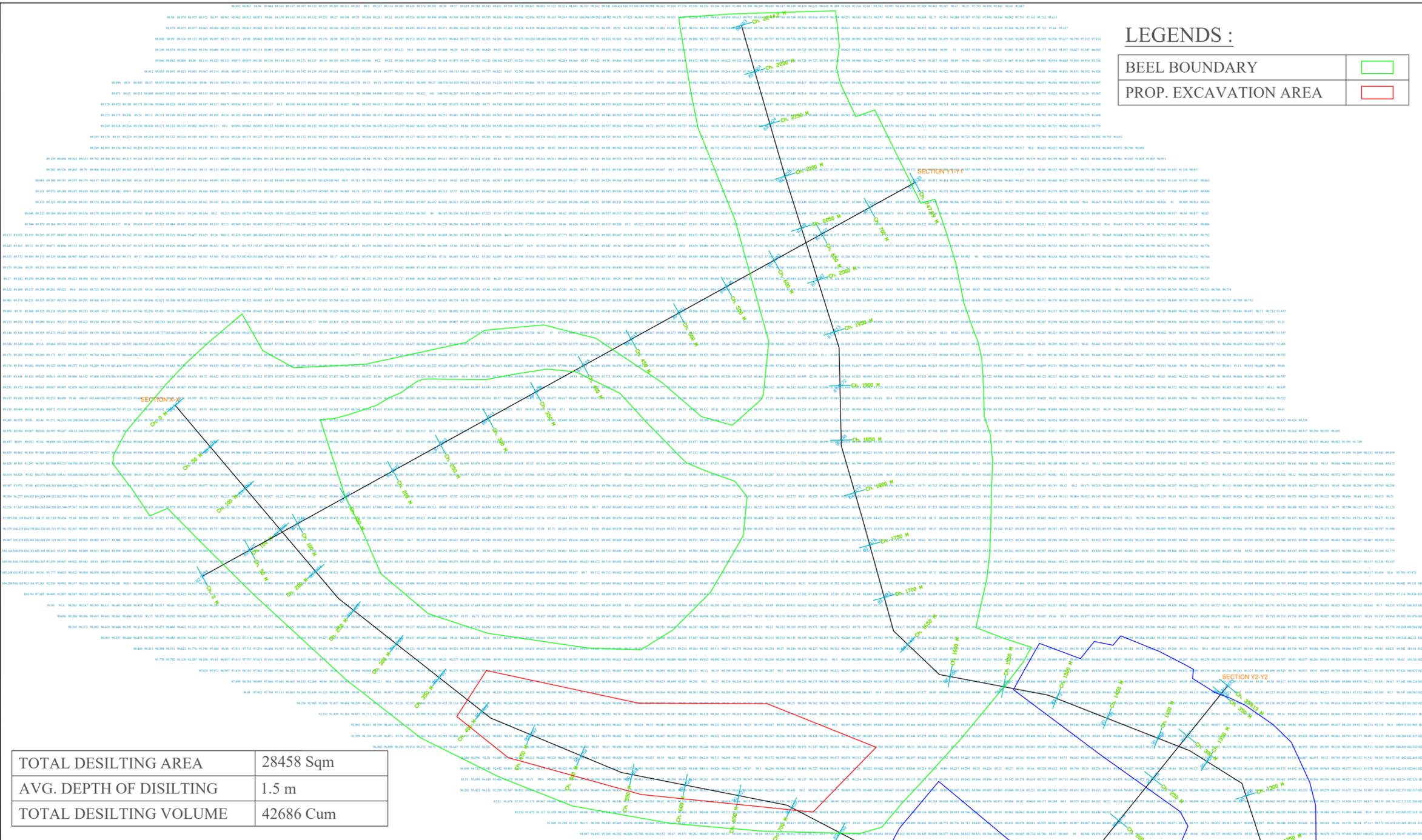
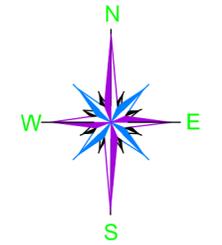
LEGENDS :

BOUNDARY	
EX. ROAD	
EX. RAILWAY	
BENCH MARK	
EX. CULVERT	
EX. BRIDGE	
RIVER/ STREAMS/ POND	
BEEL	
EX. VEGETATION / MARSHY AREAS	
EX. HOUSES/ BUILDING	
CATCHMENT AREA	
PROP. BUND	
PROP. SILT TRAP AT INLET	
PROP. BAMBOO BARRAGE AT OUTLET	
PROP. APPROACH ROAD	
PROP. FISH REARING TANK	
PROP. FISH LANDING CUM COMMUNITY HALL	
PROP. PIPE CULVERT	



LEGENDS :

BEEL BOUNDARY	
PROP. EXCAVATION AREA	



TOTAL DESILTING AREA	28458 Sqm
AVG. DEPTH OF DISILTING	1.5 m
TOTAL DESILTING VOLUME	42686 Cum

PACKAGE NO.: 03

NAME OF THE BEEL: BORGORIA BEEL

DEVELOPMENT BLOCK: MORGONI

REVENUE VILLAGE: BORGORIA, PONKA

DISTRICT: GOLAGHAT

AREA (Ha): 30.00 Ha

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



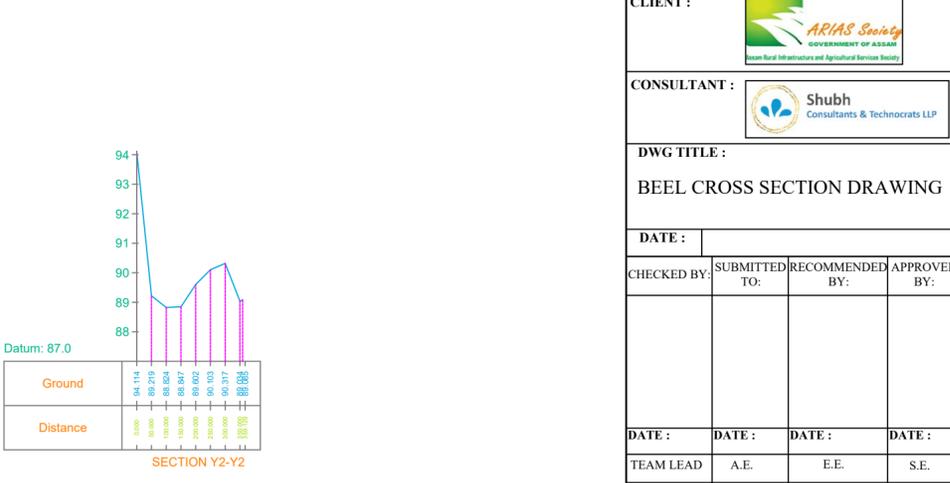
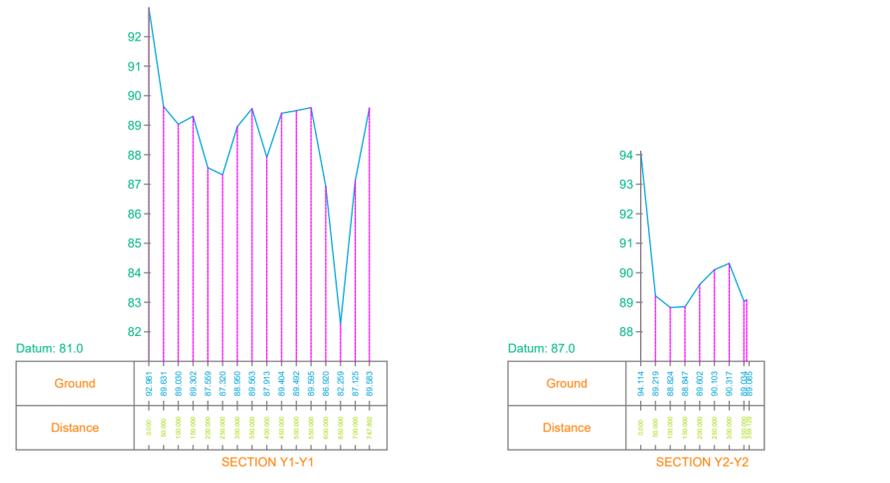
CONSULTANT: Shubh Consultants & Technocrats LLP

DWG TITLE: BEEL CROSS SECTION DRAWING

DATE:

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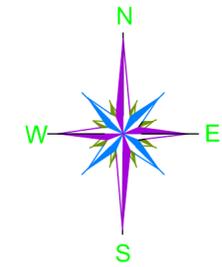
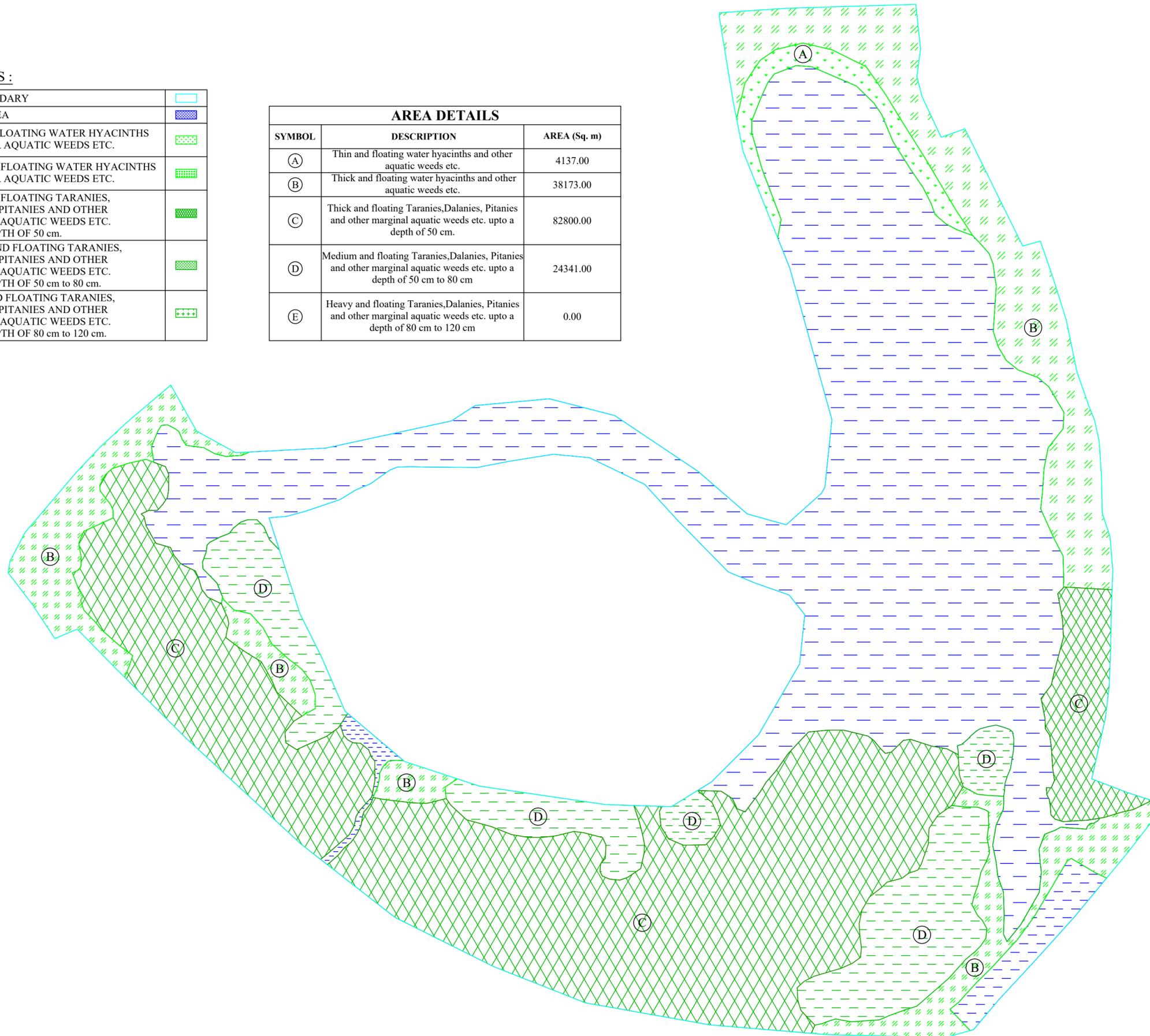
DATE:	DATE:	DATE:	DATE:
TEAM LEAD	A.E.	E.E.	S.E.



LEGENDS :

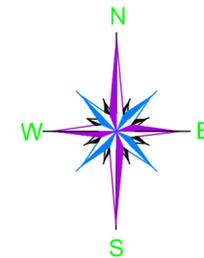
BEEL BOUNDARY	
WATER AREA	
THIN AND FLOATING WATER HYACINTHS AND OTHER AQUATIC WEEDS ETC.	
THICK AND FLOATING WATER HYACINTHS AND OTHER AQUATIC WEEDS ETC.	
THICK AND FLOATING TARANIES, DALANIES, PITANIES AND OTHER MARGINAL AQUATIC WEEDS ETC. UPTO A DEPTH OF 50 cm.	
MEDIUM AND FLOATING TARANIES, DALANIES, PITANIES AND OTHER MARGINAL AQUATIC WEEDS ETC. UPTO A DEPTH OF 50 cm to 80 cm.	
HEAVY AND FLOATING TARANIES, DALANIES, PITANIES AND OTHER MARGINAL AQUATIC WEEDS ETC. UPTO A DEPTH OF 80 cm to 120 cm.	

AREA DETAILS		
SYMBOL	DESCRIPTION	AREA (Sq. m)
(A)	Thin and floating water hyacinths and other aquatic weeds etc.	4137.00
(B)	Thick and floating water hyacinths and other aquatic weeds etc.	38173.00
(C)	Thick and floating Taranies, Dalanies, Pitannies and other marginal aquatic weeds etc. upto a depth of 50 cm.	82800.00
(D)	Medium and floating Taranies, Dalanies, Pitannies and other marginal aquatic weeds etc. upto a depth of 50 cm to 80 cm	24341.00
(E)	Heavy and floating Taranies, Dalanies, Pitannies and other marginal aquatic weeds etc. upto a depth of 80 cm to 120 cm	0.00



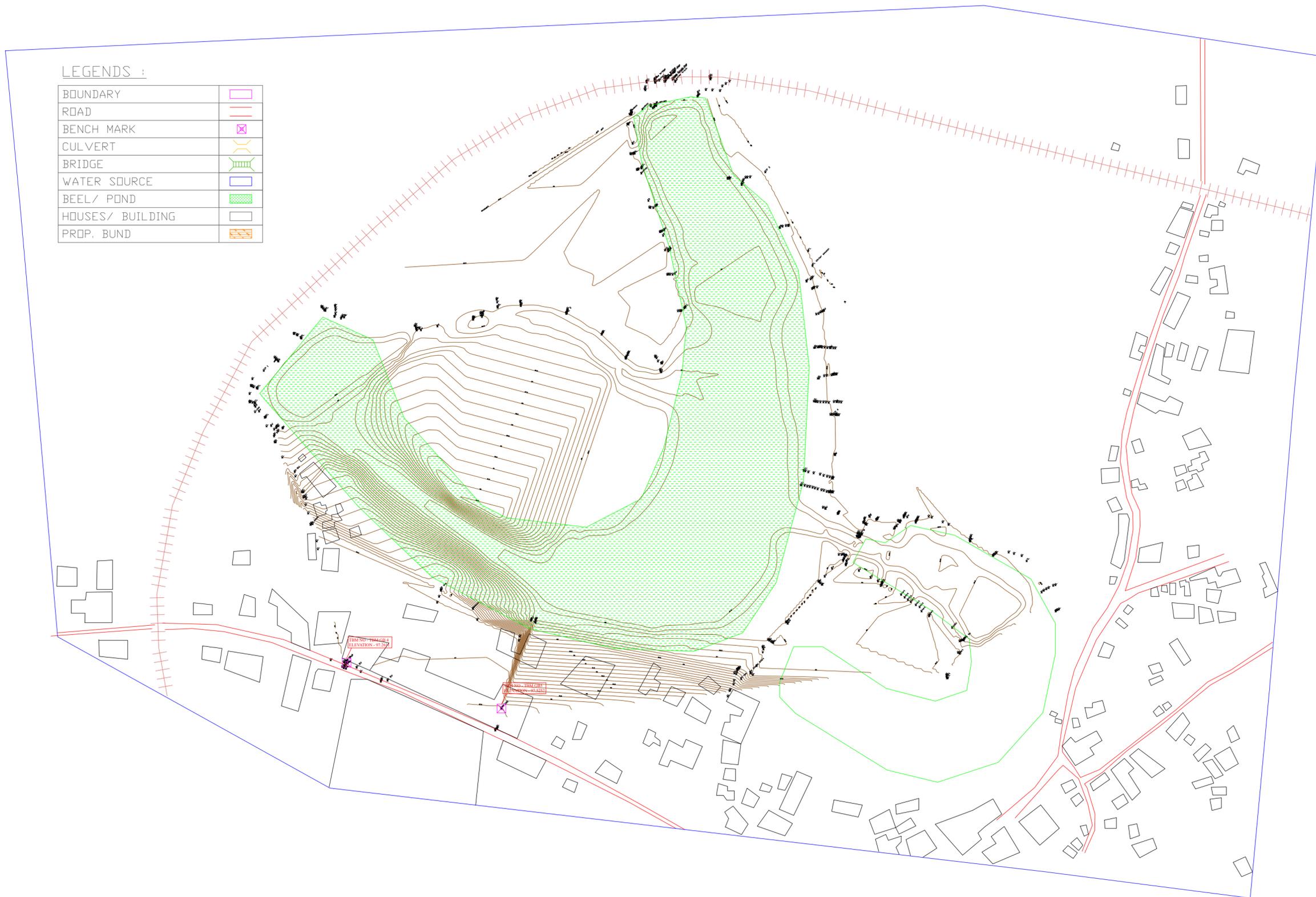
PACKAGE NO.:	03		
NAME OF THE BEEL:	BORGORIA BEEL		
DEVELOPMENT BLOCK:	MORONGI		
REVENUE VILLAGE:	BORGORIA, PONKA		
DISTRICT:	GOLAGHAT		
AREA (Ha):	30.00 Ha		
PROJECT TITLE:	Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project		
CLIENT :			
CONSULTANT :			
DWG TITLE :	DEWEEDING DRAWING OF BORGORIA BEEL		
DATE :			
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:
DATE :	DATE :	DATE :	DATE :
TEAM LEAD	A.E.	E.E.	S.E.

CONTOUR MAP WITH BATHYMETRIC LEVELS OF BORGORIA BEEL



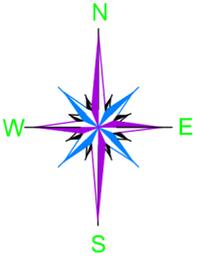
LEGENDS :

BOUNDARY	
ROAD	
BENCH MARK	
CULVERT	
BRIDGE	
WATER SOURCE	
BEEL/ POND	
HOUSES/ BUILDING	
PROP. BUND	



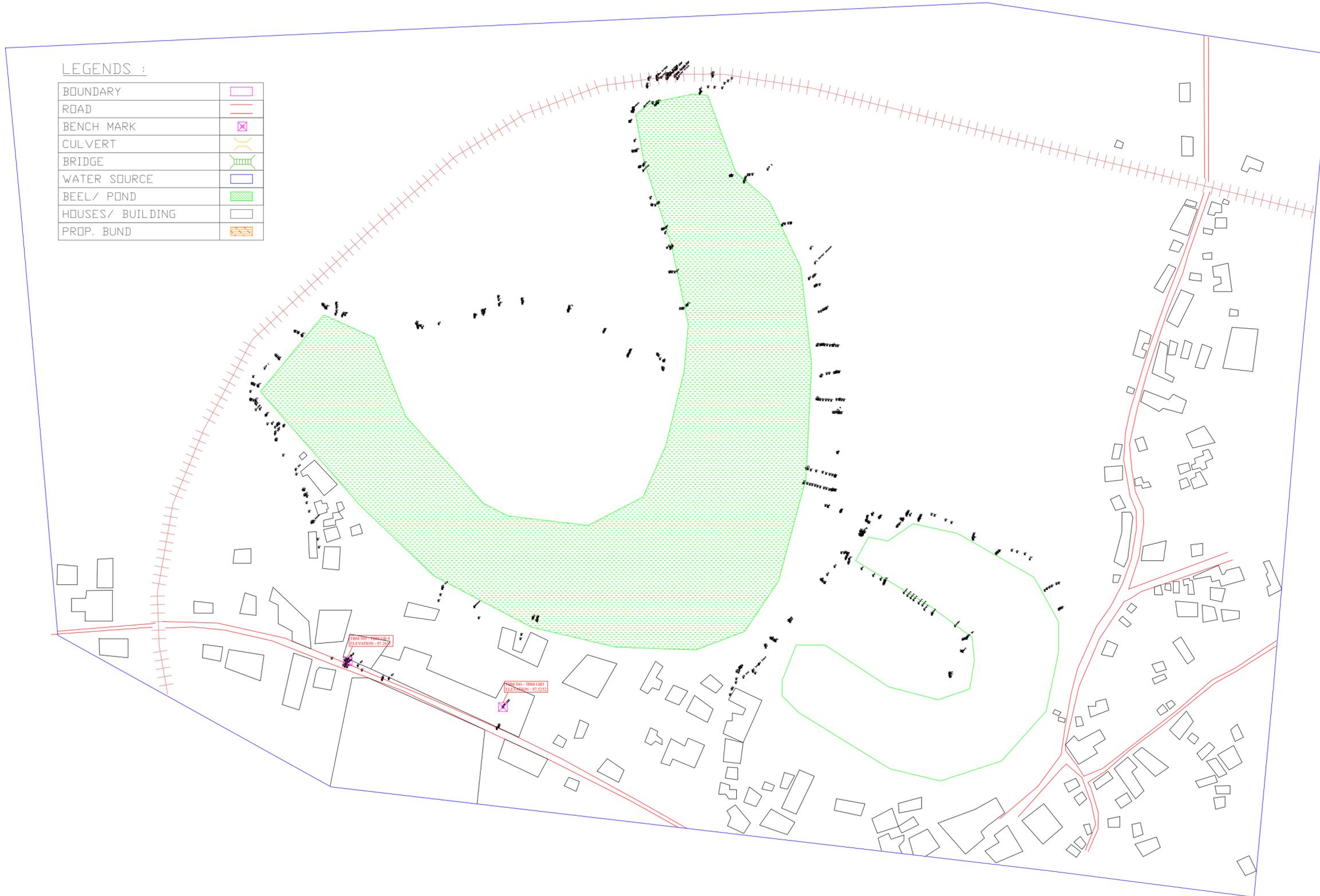
PACKAGE NO.:	03		
NAME OF THE BEEL:	BORGORIA BEEL		
DEVELOPMENT BLOCK:	GOLAGHAT EAST PADUMONI		
REVENUE VILLAGE:	BORPATHORUA		
DISTRICT:	GOLAGHAT		
AREA (Ha):	30.00 Ha		
PROJECT TITLE:	Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project		
CLIENT :	 <small>ARIAS Society</small> <small>GOVERNMENT OF ASSAM</small> <small>Assam Rural Infrastructure and Agricultural Services Society</small>		
CONSULTANT :	 <small>Shubh</small> <small>Consultants & Technocrats LLP</small>		
DWG TITLE :	CONTOUR MAP WITH BATHYMETRIC LEVELS OF BORGORIA BEEL		
DATE :			
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:
DATE :	DATE :	DATE :	DATE :
TEAM LEAD	A.E.	E.E.	S.E.

DGPS SURVEY LAYOUT MAP OF BORGORIA BEEL



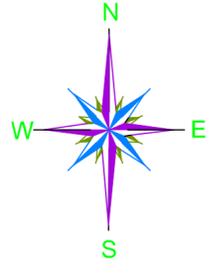
LEGENDS :

BOUNDARY	
ROAD	
BENCH MARK	
CULVERT	
BRIDGE	
WATER SOURCE	
BEEL/ POND	
HOUSES/ BUILDING	
PROP. BUND	



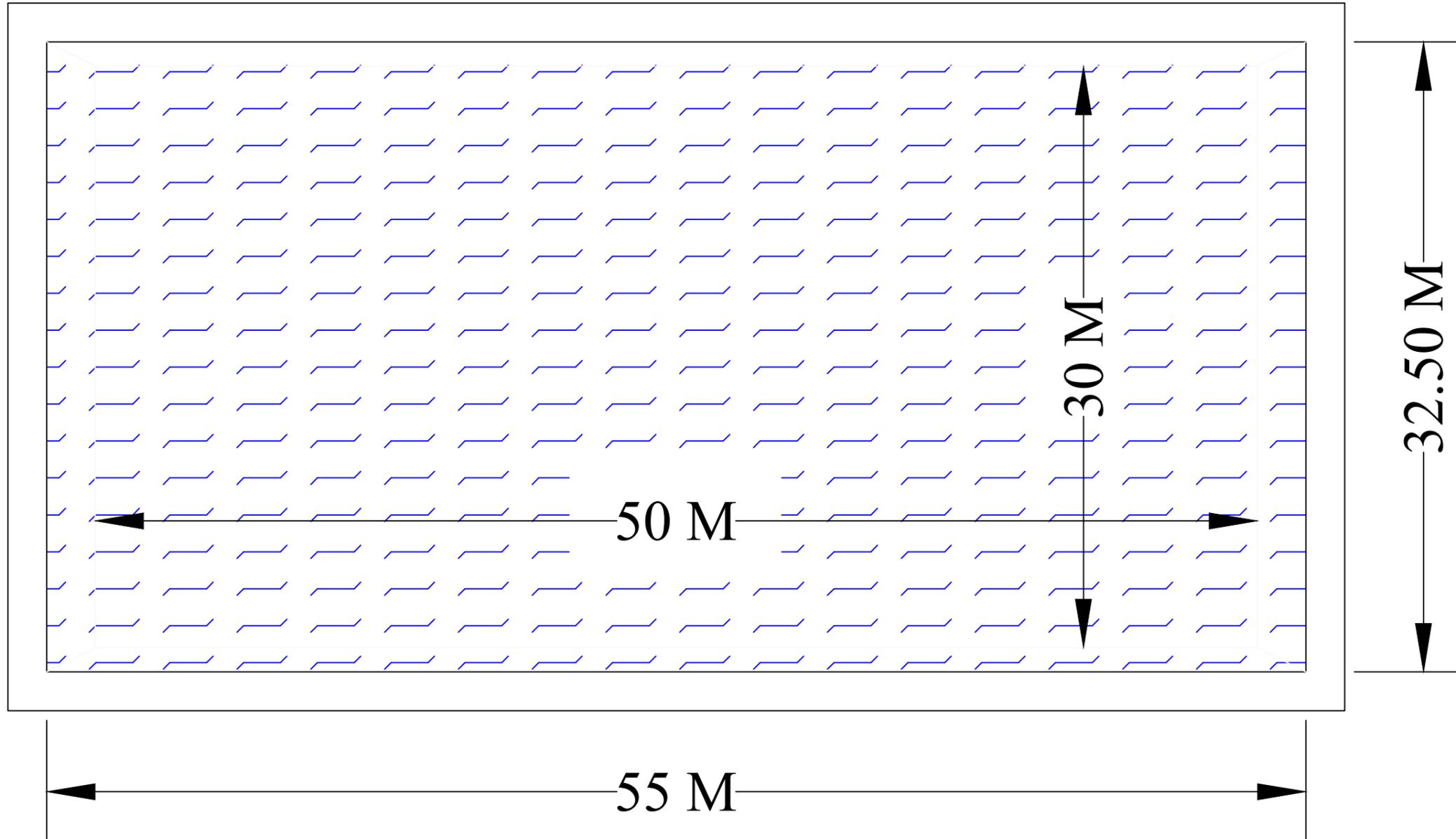
PACKAGE NO.:			
03			
NAME OF THE BEEL:			
BORGORIA BEEL			
DEVELOPMENT BLOCK:			
GOLAGHAT EAST PADUMONI			
REVENUE VILLAGE:			
BORPATHORUA			
DISTRICT:			
GOLAGHAT			
AREA (Ha):			
30 Ha			
PROJECT TITLE:			
Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project			
CLIENT :			
 <small>ARIAS Society</small> <small>GOVERNMENT OF ASSAM</small> <small>Rural Rural Infrastructure and Agricultural Services Society</small>			
CONSULTANT :			
 <small>Shubh</small> <small>Consultants & Technocrats LLP</small>			
DWG TITLE :			
DGPS SURVEY LAYOUT MAP OF BORGORIA BEEL			
DATE :			
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:
DATE :	DATE :	DATE :	DATE :
TEAM LEAD	A.E.	E.E.	S.E.

DRONE SURVEY MAP OF BORGORIA BEEL

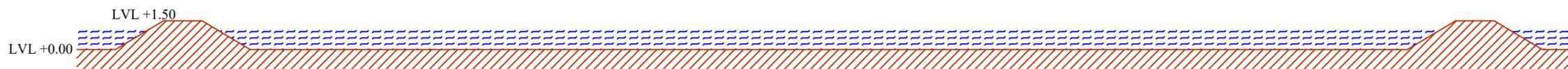


PACKAGE NO.:	03		
NAME OF THE BEEL:	BORGORIA BEEL		
DEVELOPMENT BLOCK:	MORONGI		
REVENUE VILLAGE:	BORGORIA, PONKA		
DISTRICT:	GOLAGHAT		
AREA (Ha):	30.00 Ha		
PROJECT TITLE:	Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project		
CLIENT :	 <small>ARIAS Society</small> <small>GOVERNMENT OF ASSAM</small> <small>Assam Rural Infrastructure and Agricultural Services Society</small>		
CONSULTANT :	 <small>Shubh</small> <small>Consultants & Technocrats LLP</small>		
DWG TITLE :	DRONE SURVEY MAP OF BORGORIA BEEL		
DATE :			
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:
DATE :	DATE :	DATE :	DATE :
TEAM LEAD	A.E.	E.E.	S.E.

TYPICAL PLAN & SECTION OF REARING TANK



PLAN



SECTION

SCALE: NOT TO SCALE

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

CLIENT : 
ARIAS Society
GOVERNMENT OF ASSAM
Assam Rural Infrastructure and Agricultural Service Society

CONSULTANT : 
Shubh
Consultants & Technocrats LLP

DWG TITLE :
TYPICAL PLAN & SECTION OF REARING TANK OF 1800 SQM

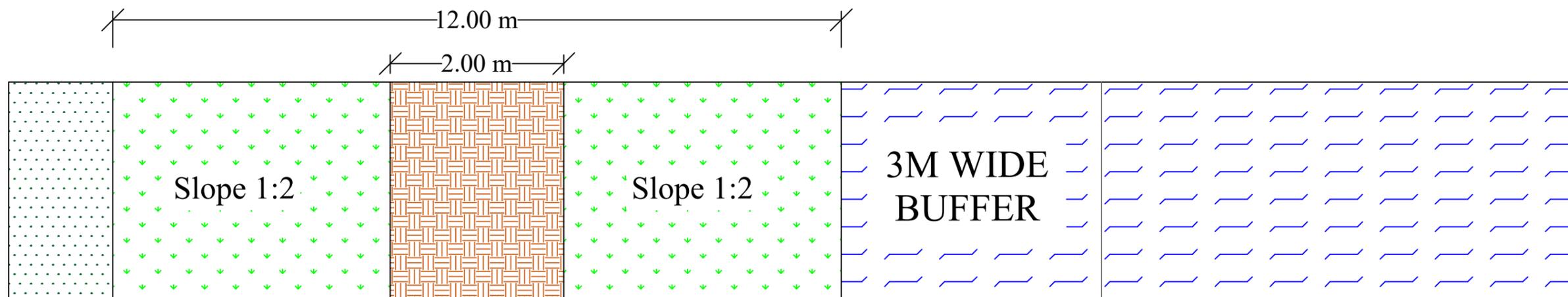
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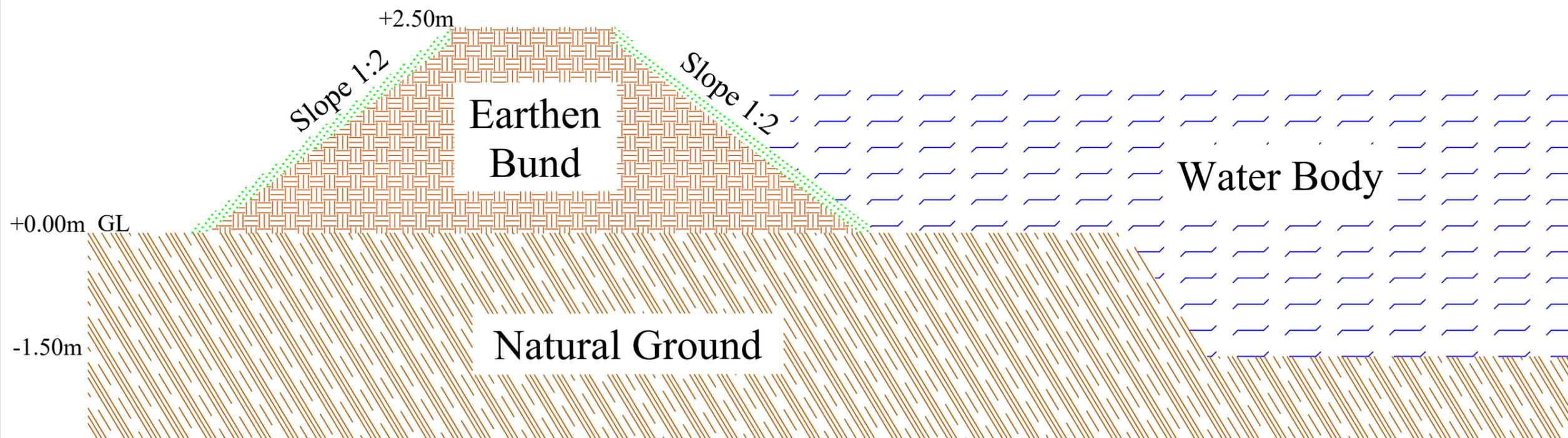
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DATE :	DATE :	DATE :	DATE :
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TEAM LEAD	A.E.	E.E.	S.E.
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PLAN



CROSS - SECTION

SCALE: NOT TO SCALE

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

CLIENT :

 ARIAS Society
 GOVERNMENT OF ASSAM
Assam Rural Infrastructure and Agricultural Services Society

CONSULTANT :

 Shubh
 Consultants & Technocrats LLP

DWG TITLE :
TYPICAL PLAN & CROSS-SECTION OF EARTHEN BUND

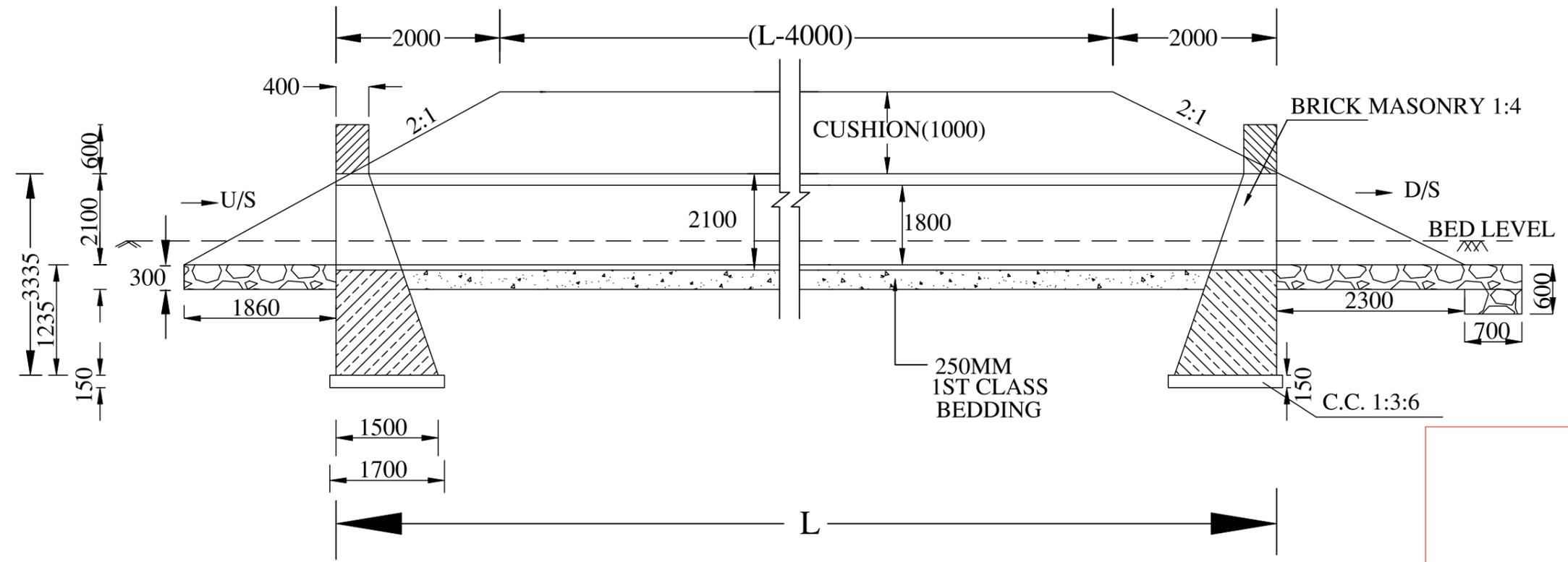
DATE :

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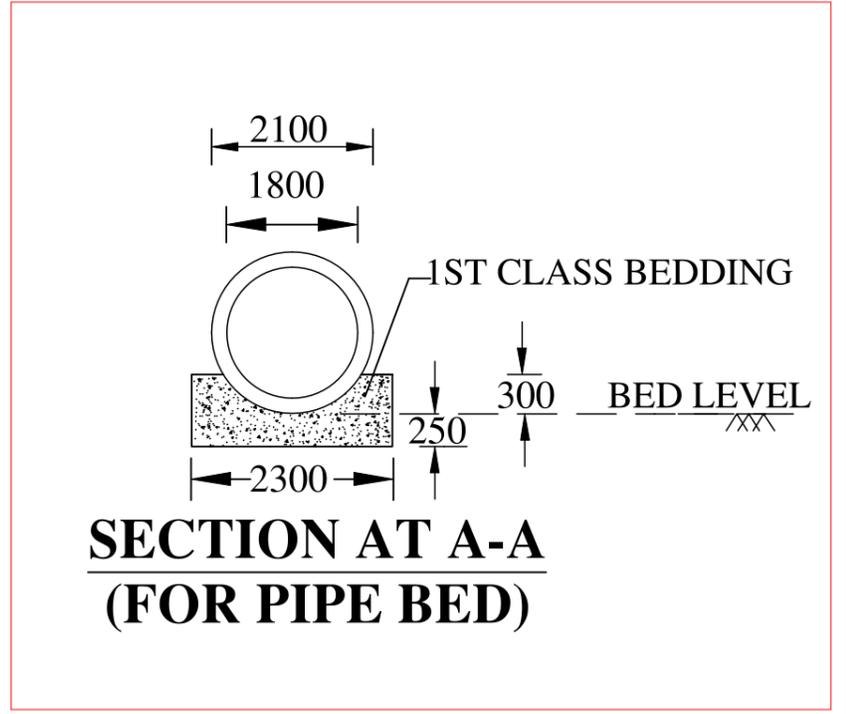
DATE :	DATE :	DATE :	DATE :
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TEAM LEAD	A.E.	E.E.	S.E.
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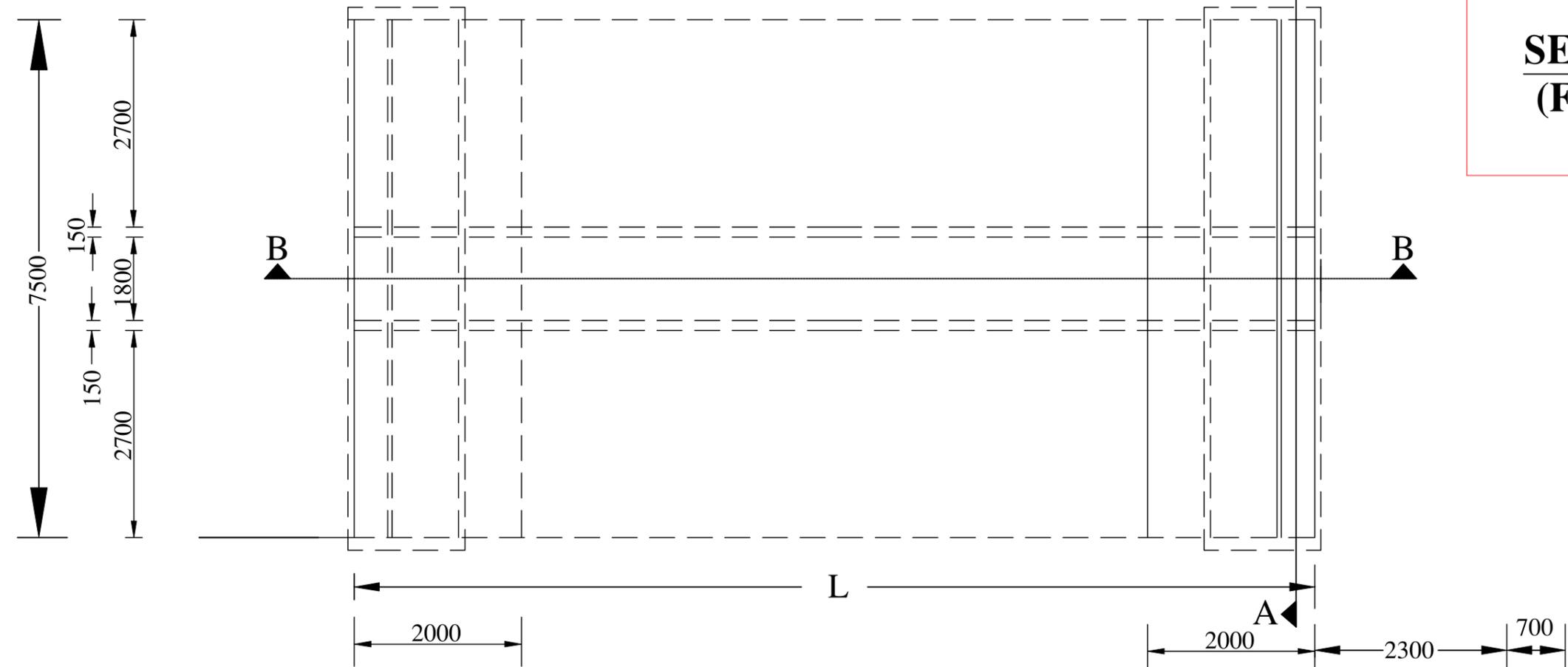


SECTION AT B-B

- NOTES:-**
1. ALL DIMENSIONS ARE IN mm UNTIL & UNLESS STATED.
 2. THE PIPES SHALL BE RCC NP.3 THE SPECIFICATIONS OF PIPES SHALL BE AS PER IS:458 OF 1988
 3. MINIMUM CUSHION ABOVE PIPE INCLUDING ROAD CRUST SHALL BE 1.0M



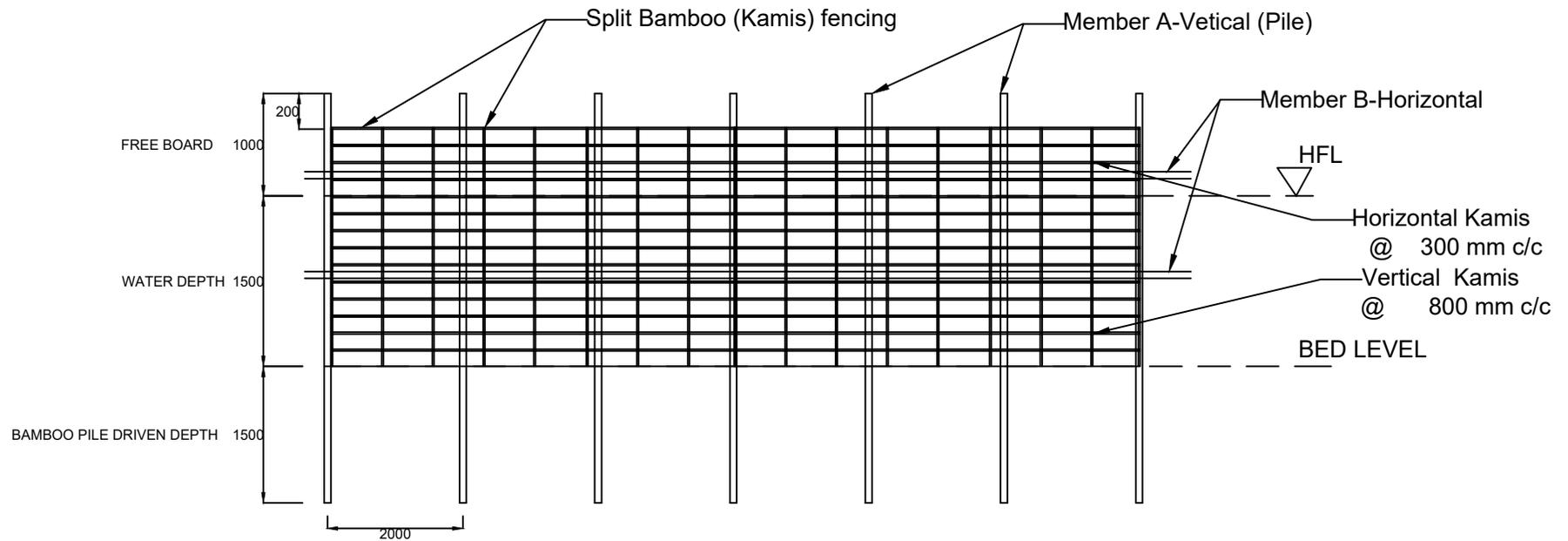
**SECTION AT A-A
(FOR PIPE BED)**



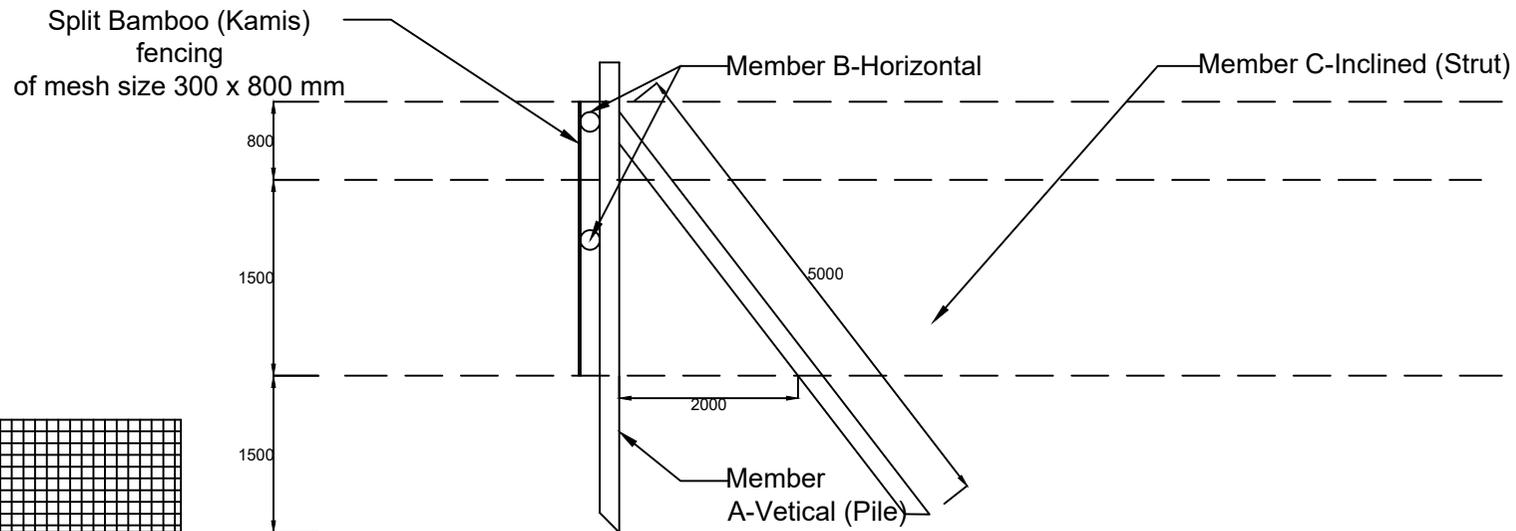
PLAN

SCALE: NOT TO SCALE

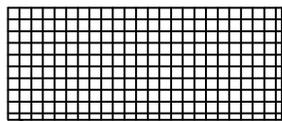
PROJECT TITLE: Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project			
CLIENT: 			
CONSULTANT: 			
DWG TITLE: STANDARD DRAWING RCC PIPE CULVERT WITH SINGLE PIPE 1.8 METRE DIA., NP-3 (REF: IRC:SP20)			
DATE:			
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:
DATE:	DATE:	DATE:	DATE:
TEAM LEAD	A.E.	E.E.	S.E.



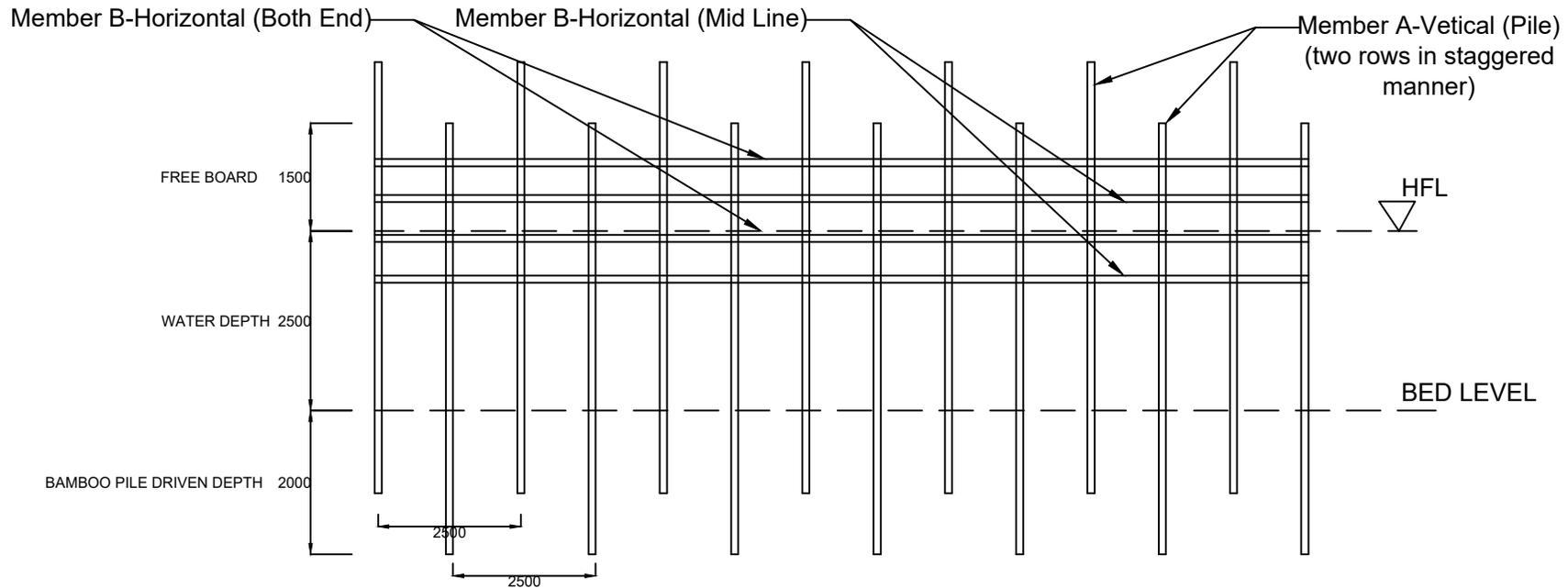
PEN CULTURE STRUCTURE AT BEEL/WETLAND FISHERIES. (FRONT-ELEVATION)



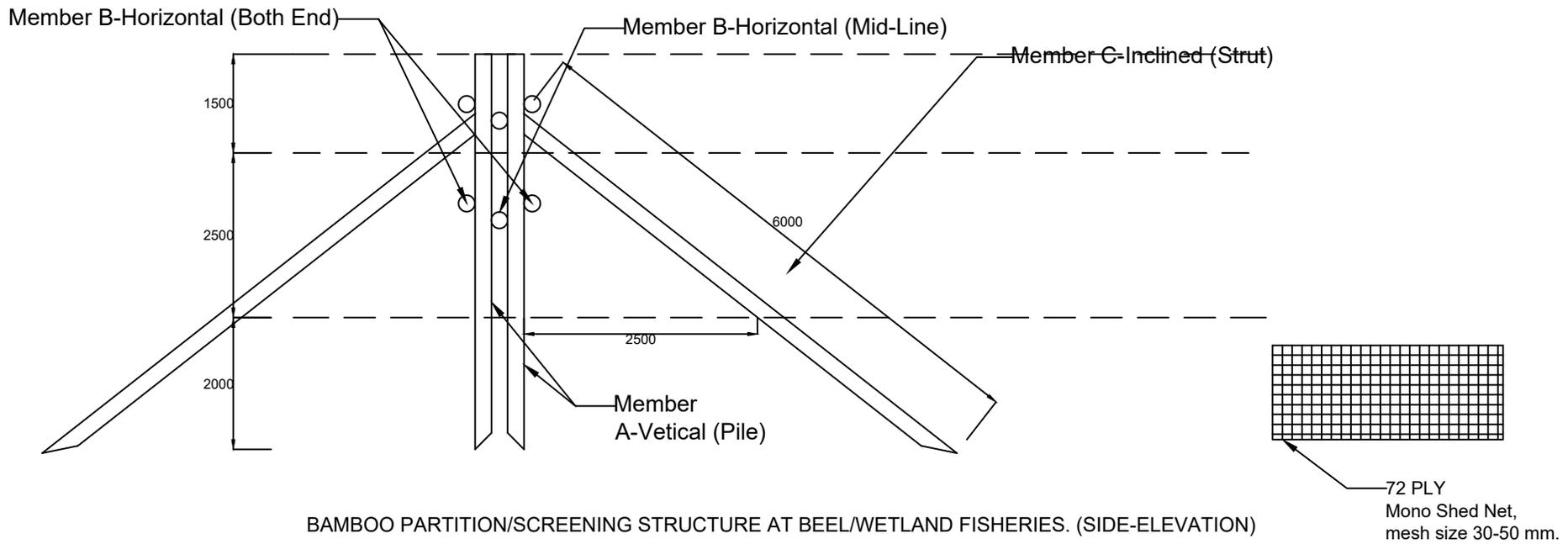
PEN CULTURE STRUCTURE AT BEEL/WETLAND FISHERIES. (SIDE-ELEVATION)



115 GSM
Mono Shed Net,
mesh size 3-5 mm.



BAMBOO PARTITION/SCREENING STRUCTURE AT BEEL/WETLAND FISHERIES. (FRONT-ELEVATION)



BAMBOO PARTITION/SCREENING STRUCTURE AT BEEL/WETLAND FISHERIES. (SIDE-ELEVATION)

TYPICAL SECTION OF APPROACH ROAD

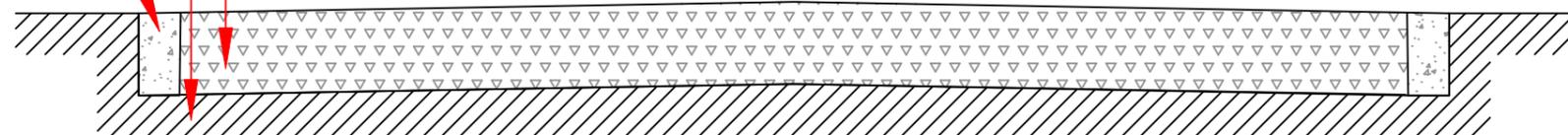
GSB of thickness 200 mm
Well-Compacted Natural Soil

Edge-Restraint Wall

Road Width- 3.1m

Slope 2%

Slope 2%

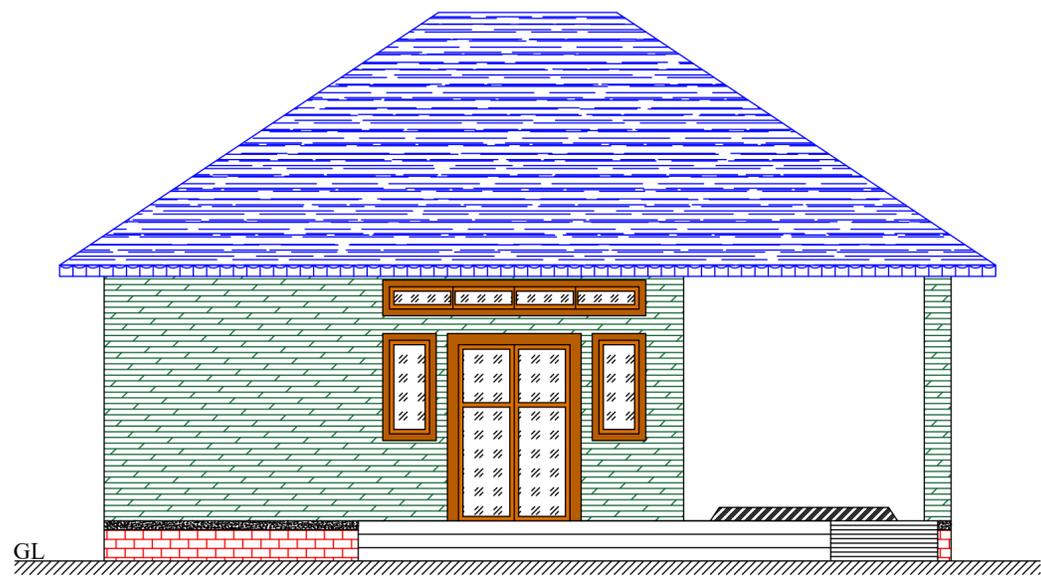


PROJECT TITLE:
Sustainable Wetlands and Integrated
Fisheries Transformation (SWIFT) Project

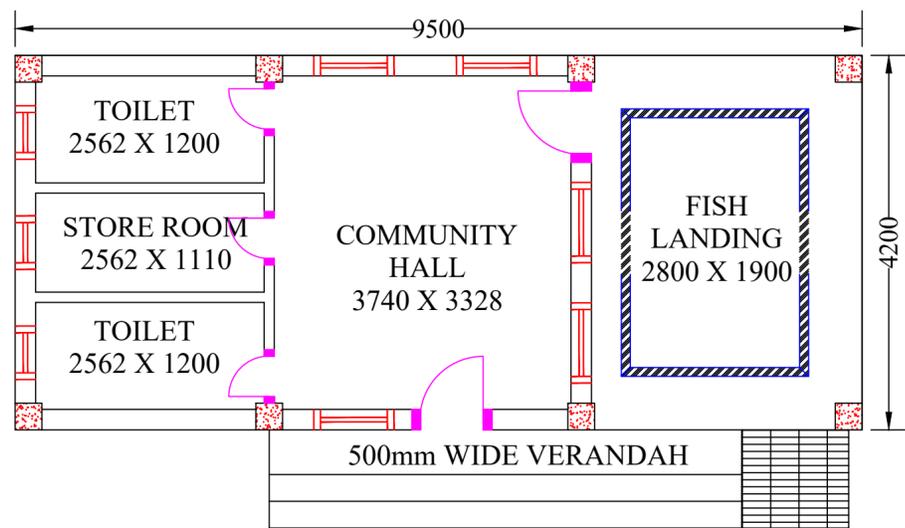


DWG TITLE :
TYPICAL SECTION OF
APPROACH ROAD

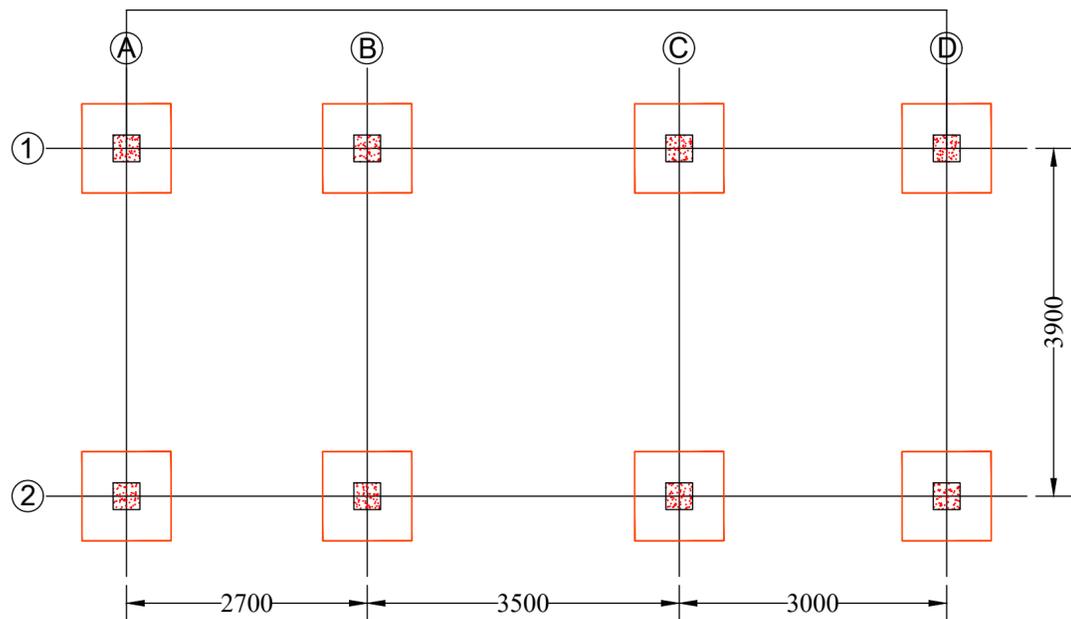
DATE :			
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:
DATE :	DATE :	DATE :	DATE :
TEAM LEAD	A.E.	E.E.	S.E.



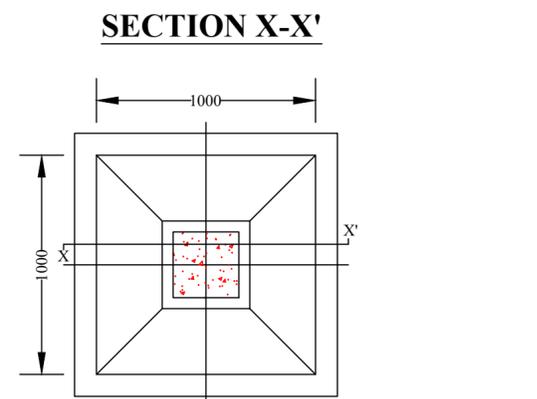
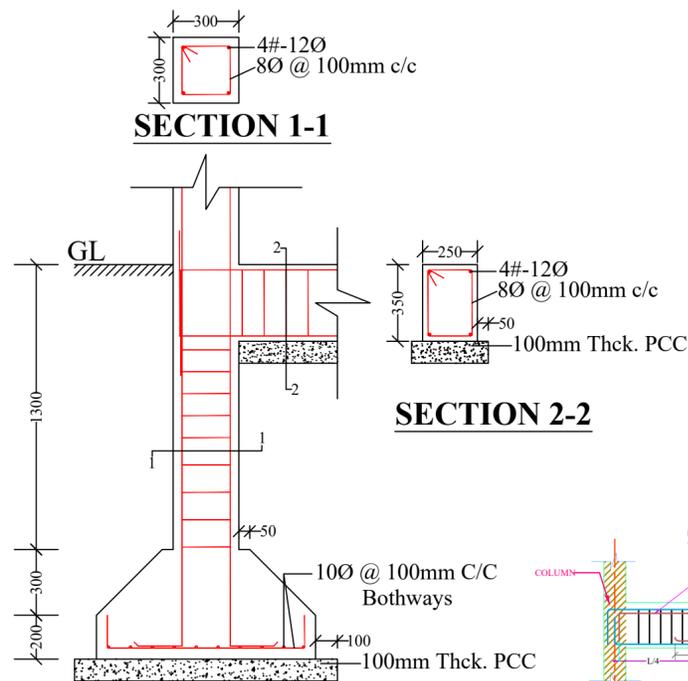
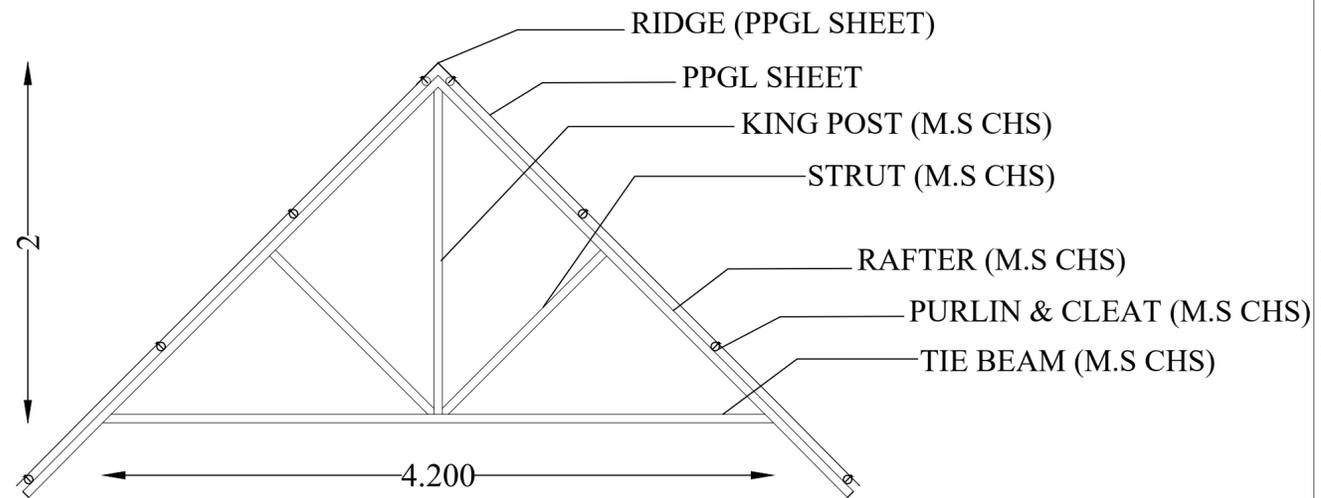
FRONT ELEVATION



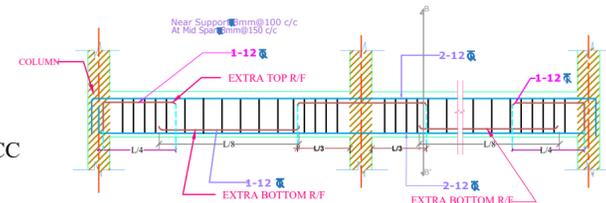
PLAN



FOOTING LAYOUT



FOOTING PLAN



TYPICAL SECTION OF FLOOR BEAM

NOTES :

1. All dimensions are in millimetres.
2. All dimensions are to be read and not to be scaled.
3. Grade of Concrete used : M-20.
4. Grade of Steel Reinf. used : TMT (Grade-500)
5. Clear cover for reinf. bars :
 - i) In Foundations - 50 mm.
 - ii) In Columns - 40 mm.
 - iii) In Beams - 25 mm.
 - iv) In Slabs - 20 mm.
6. Not more than one third of the total number of main bars shall be over-lapped at any section of a column.
7. Laps, anchorage of reinf. bars shall be as per I.S.456-2000.
8. Maximum size of Coarse Aggregate shall be 20 mm and down graded.
9. Aggregate shall comply with the requirements of I.S.:383-1970.
10. Lap / Development length = 50 x 'd' where, 'd' = diameter of reinforcing bar.
11. In addition to Lintels, R.C.C. band at sill level should also be provided.
12. Use R.C.C. bands also in all vertical sides of openings.
13. Protruding rods to be provided in columns for embedding all brick walls.
14. Joints between walls & beams may be embedded with epoxy based joint filling compounds.
15. All Reinforcement detailing should meet all the general requirements of IS:4326 and IS:13920.
16. Dimensions shall be in conjunction with Architectural drawings. Architectural drawings shall be followed in the event of any discrepancy with due regard to the Structural requirements. Any major deviations shall be brought to the notice of the Engineer-in-charge.

SCALE: NOT TO SCALE

PROJECT TITLE:

Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

CLIENT :

ARIAS SOCIETY

CONSULTANT :

SHUBH CONSULTANTS AND TECHNOCRATS LLP

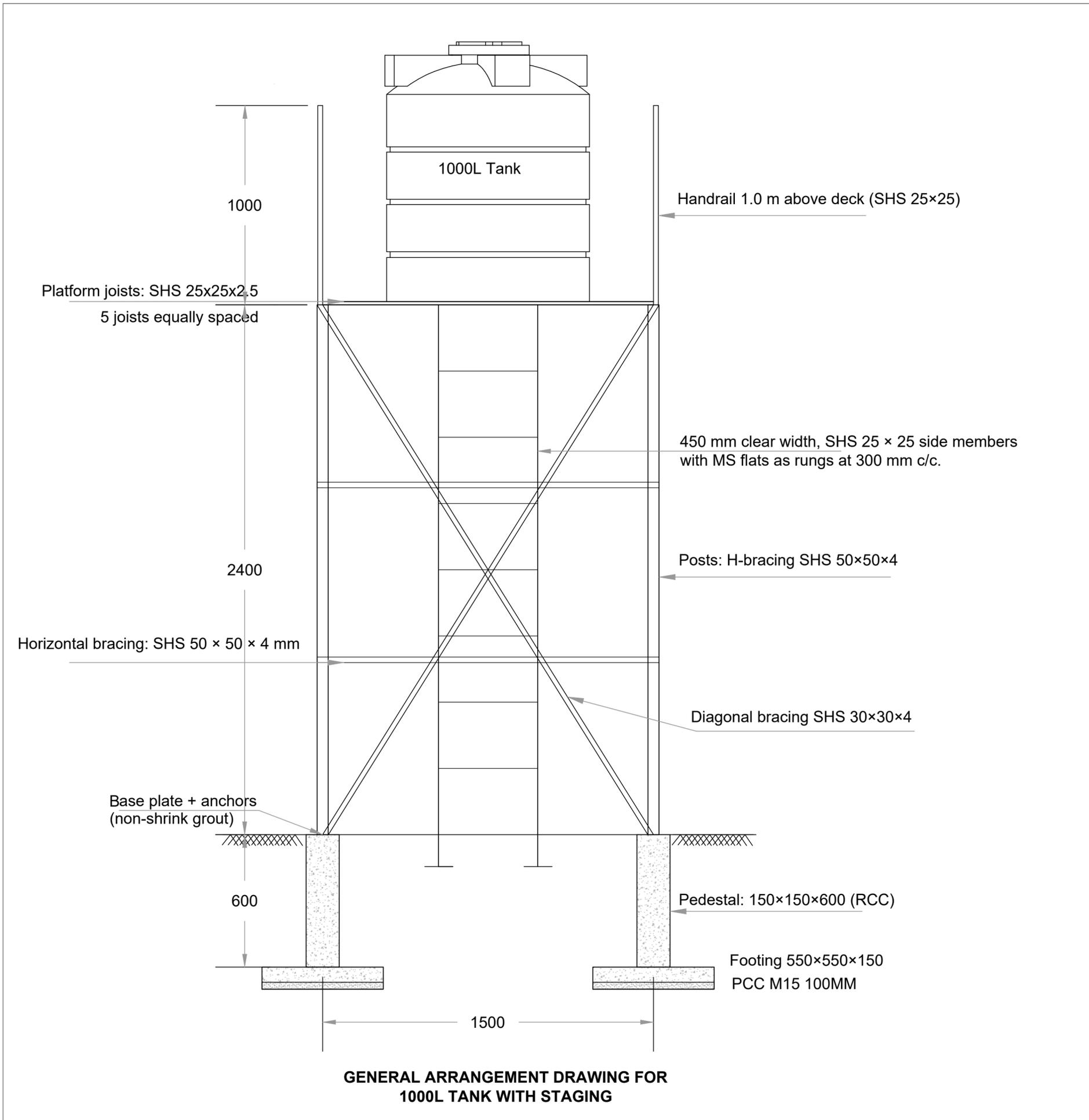
DWG TITLE : STANDARD DRAWING PLAN & CROSS-SECTION OF FISH LANDING SHED CUM COMMUNITY CENTRE

DATE :

CHECKED BY: SUBMITTED TO: RECOMMENDED BY: APPROVED BY:

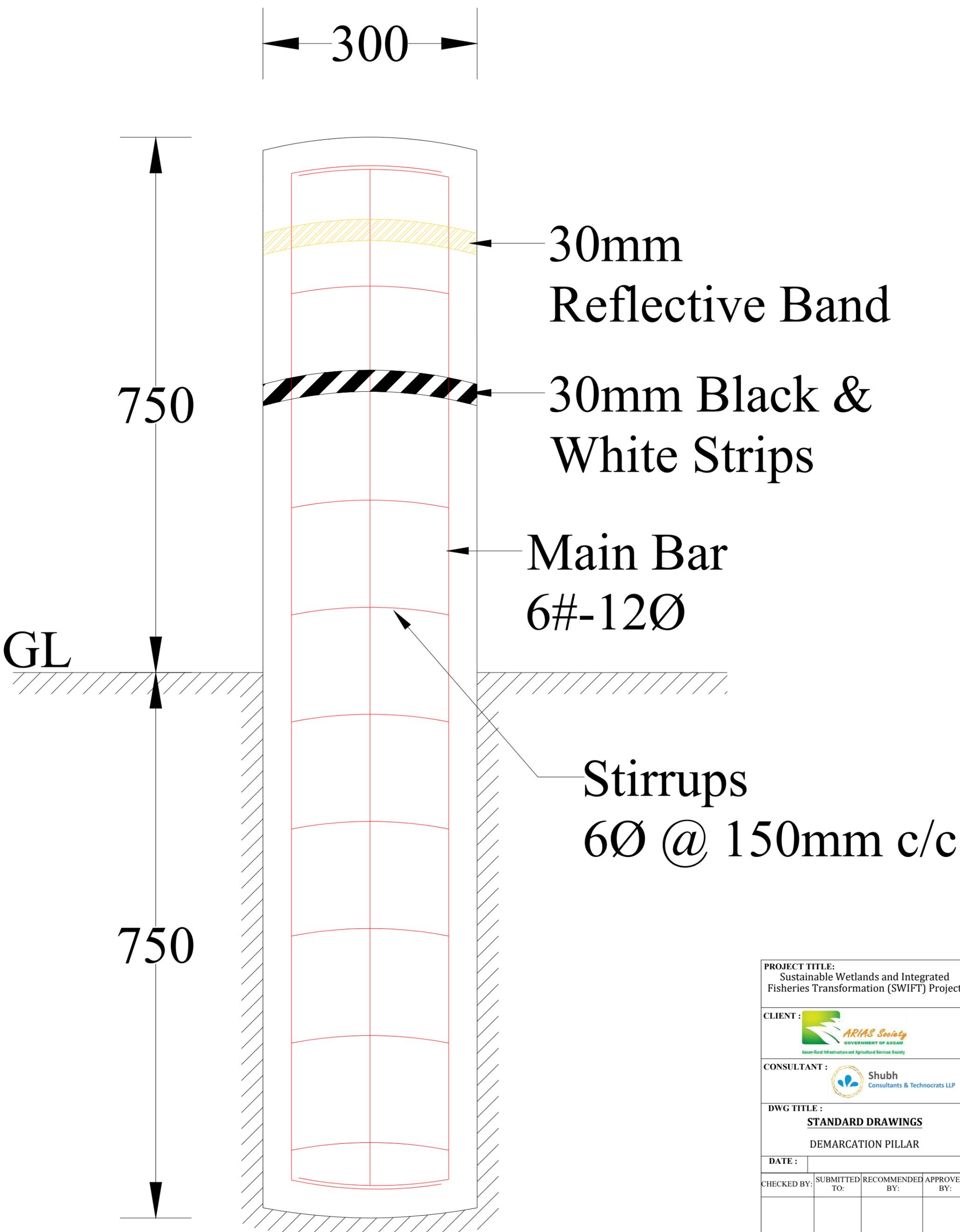
DATE : **DATE :** **DATE :** **DATE :**

TEAM LEAD A.E. E.E. S.E.

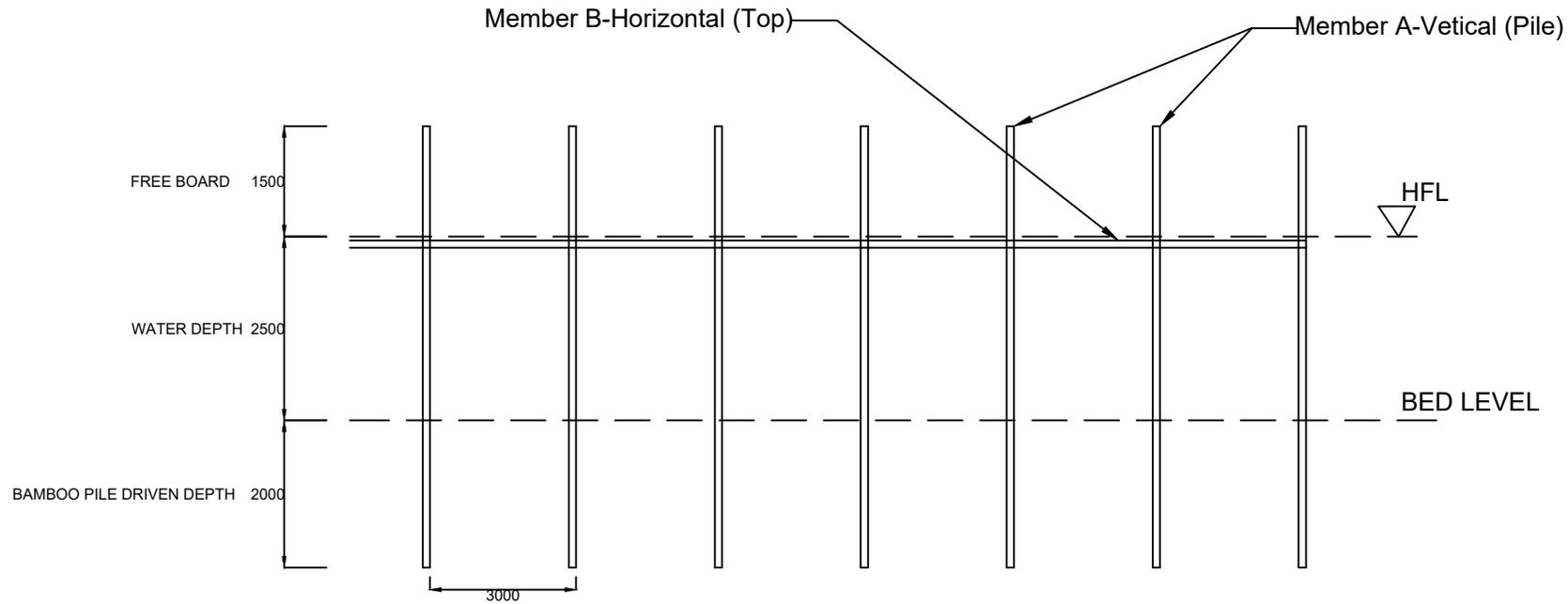


- GENERAL NOTES –**
- Drawing Basis**
- All dimensions are in millimetres (mm) unless otherwise stated.
 - Dimensions shall be verified on site prior to construction; discrepancies to be reported to Engineer-in-Charge.
- Concrete Works**
- Footing: 550 × 550 × 150 RCC M20 (IS 456, IS 3370).
 - Pedestal: 150 × 150 × 600 RCC above footing.
 - Provide PCC 1:5:10, 100 mm thick blinding below footings (recommended).
 - All reinforcement Fe-500D TMT; cover to reinforcement = 40 mm (footings/pedestals).
- Steel Works**
- Main posts: SHS 50 × 50 × 4 mm.
 - Horizontal bracing: SHS 50 × 50 × 4 mm (at two intermediate levels).
 - Diagonal bracing: SHS 30 × 30 × 4 mm.
 - Platform joists: 5 nos. SHS 25 × 25 × 2.5 mm at equal spacing.
 - Handrail: SHS 25 × 25 × 2.5 mm, 1.0 m high above deck.
 - Ladder: 450 mm clear width, SHS 25 × 25 side members with MS flats as rungs at 300 mm c/c.
 - All steel to conform to IS 2062; fabrication as per IS 800.
- Connections & Base Plates**
- Provide MS base plates (10 mm thick) at post bottoms, anchored into pedestal with 4 nos. 16 mm dia foundation bolts, grouted with non-shrink grout.
 - Provide stiffener cleats, gusset plates, and welds as per design.
 - All bolts/welds to conform to IS 1367/IS 816.
- Corrosion Protection & Painting**
- Structural steel to receive one coat zinc-rich primer + 2 coats epoxy/polyurethane paint (minimum 100 microns DFT).
 - Alternatively, all steel members may be hot-dip galvanized (minimum 80 microns zinc coating).
- Tank & Plumbing**
- Water tank: 1,000 litres capacity, IS 12701 marked, provided with cover and locking arrangement.

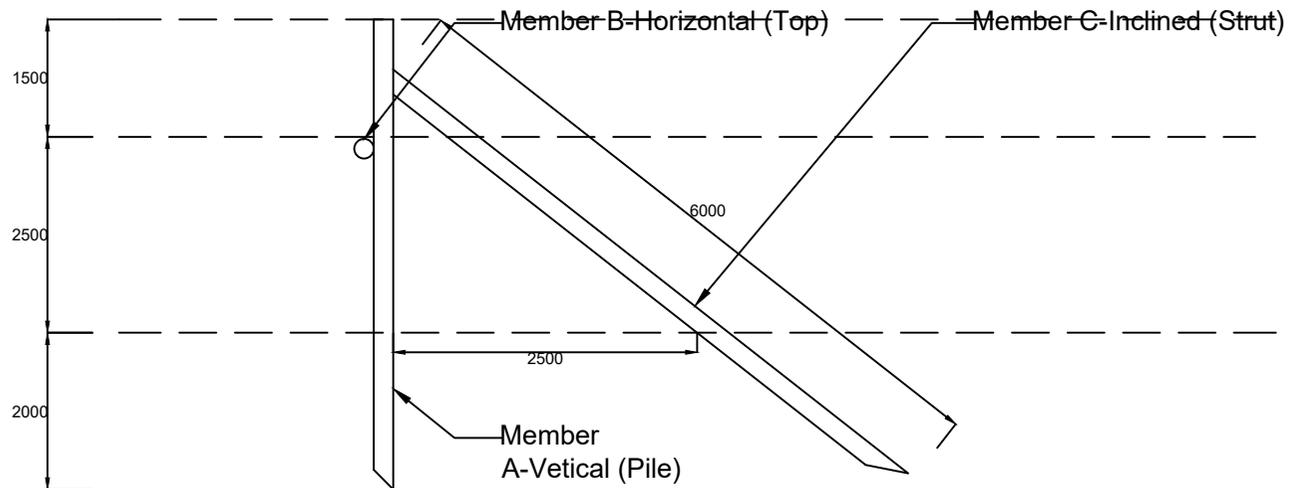
PROJECT TITLE:			
Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project			
CLIENT : ARIAS SOCIETY			
CONSULTANT : SHUBH CONSULTANTS AND TECHNOCRATS LLP			
DWG TITLE :			
STANDARD DRAWING			
1000L TANK WITH STAGING			
DATE :			
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:
TEAM LEAD	A.E.	E.E.	S.E.



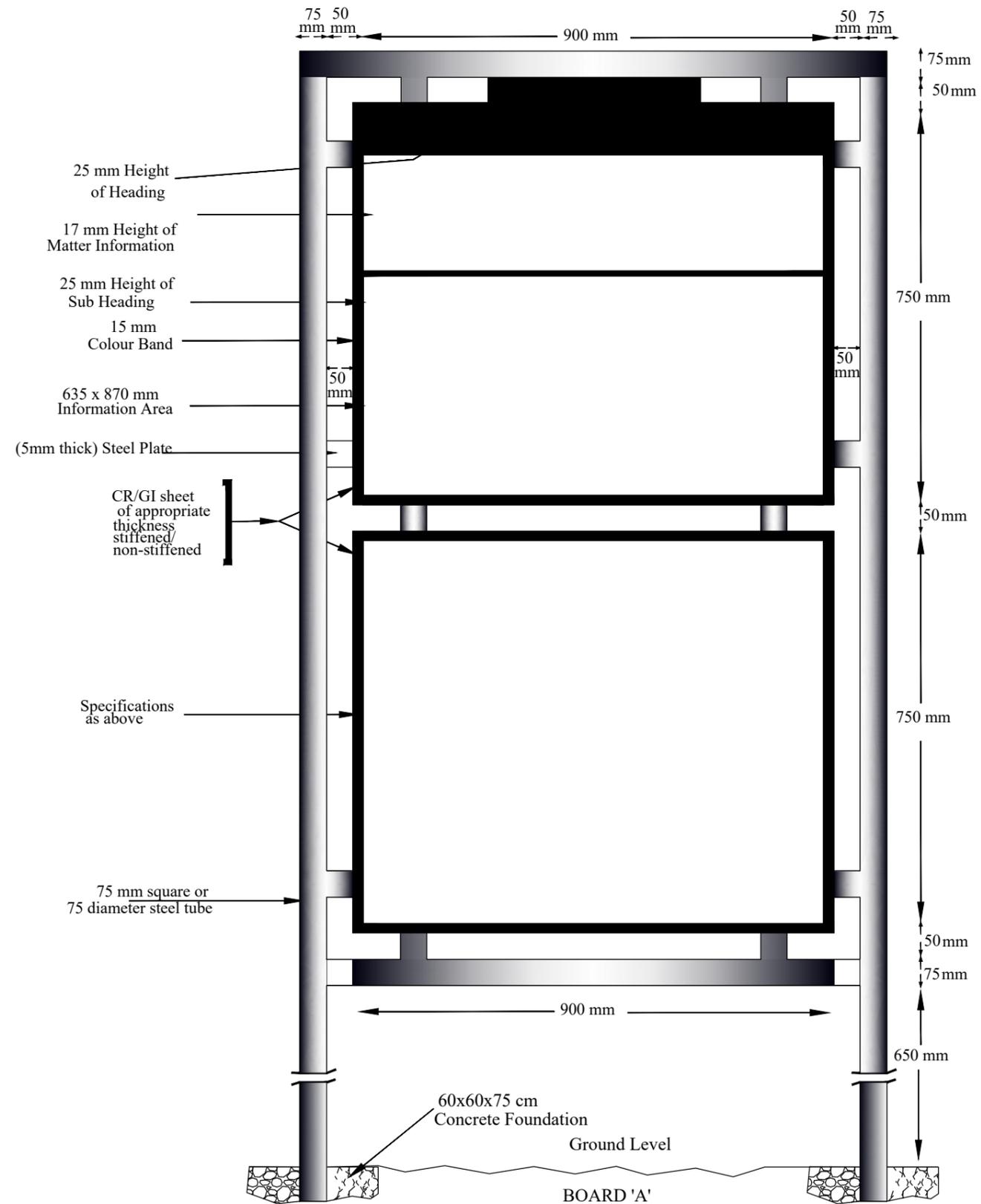
PROJECT TITLE: Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project			
CLIENT :  ARIAS Society GOVERNMENT OF ASSAM Assam Rural Infrastructure and Agricultural Services Society			
CONSULTANT :  Shubh Consultants & Technocrats LLP			
DWG TITLE : STANDARD DRAWINGS DEMARCATIION PILLAR			
DATE :			
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:
DATE :	DATE :	DATE :	DATE :
TEAM LEAD	A.E.	E.E.	S.E.



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



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



PROJECT TITLE:			
Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project			
CLIENT : ARIAS SOCIETY			
CONSULTANT : SHUBH CONSULTANTS AND TECHNOCRATS LLP			
DWG TITLE :			
STANDARD DRAWING			
INFORMATION BOARD			
DATE :			
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:
TEAM LEAD	A.E.	E.E.	S.E.