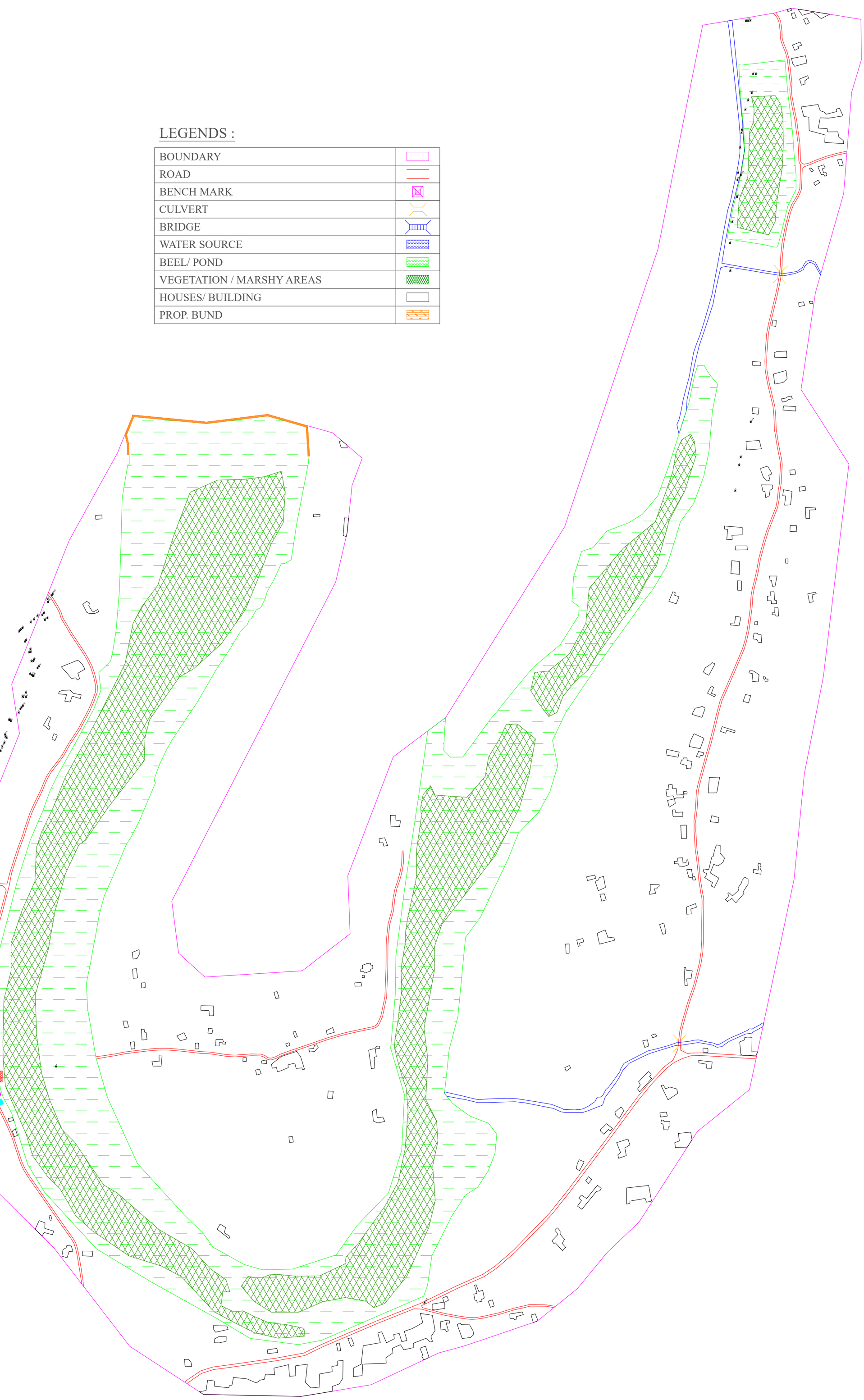
DGPS SURVEY LAYOUT MAP OF TOKLONG BEEL

N
W E
S

LEGENDS :

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



PACKAGE NO.: 02

NAME OF THE BEEL: TOKLONG BEEL

DEVELOPMENT BLOCK: MARGHERITA

REVENUE VILLAGE: TOKLONG NEPALI GAON

DISTRICT: TINSUKIA

AREA (Ha): 25.00 Ha

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 : DGPS SURVEY LAYOUT MAP OF TOKLONG BEEL

DATE :

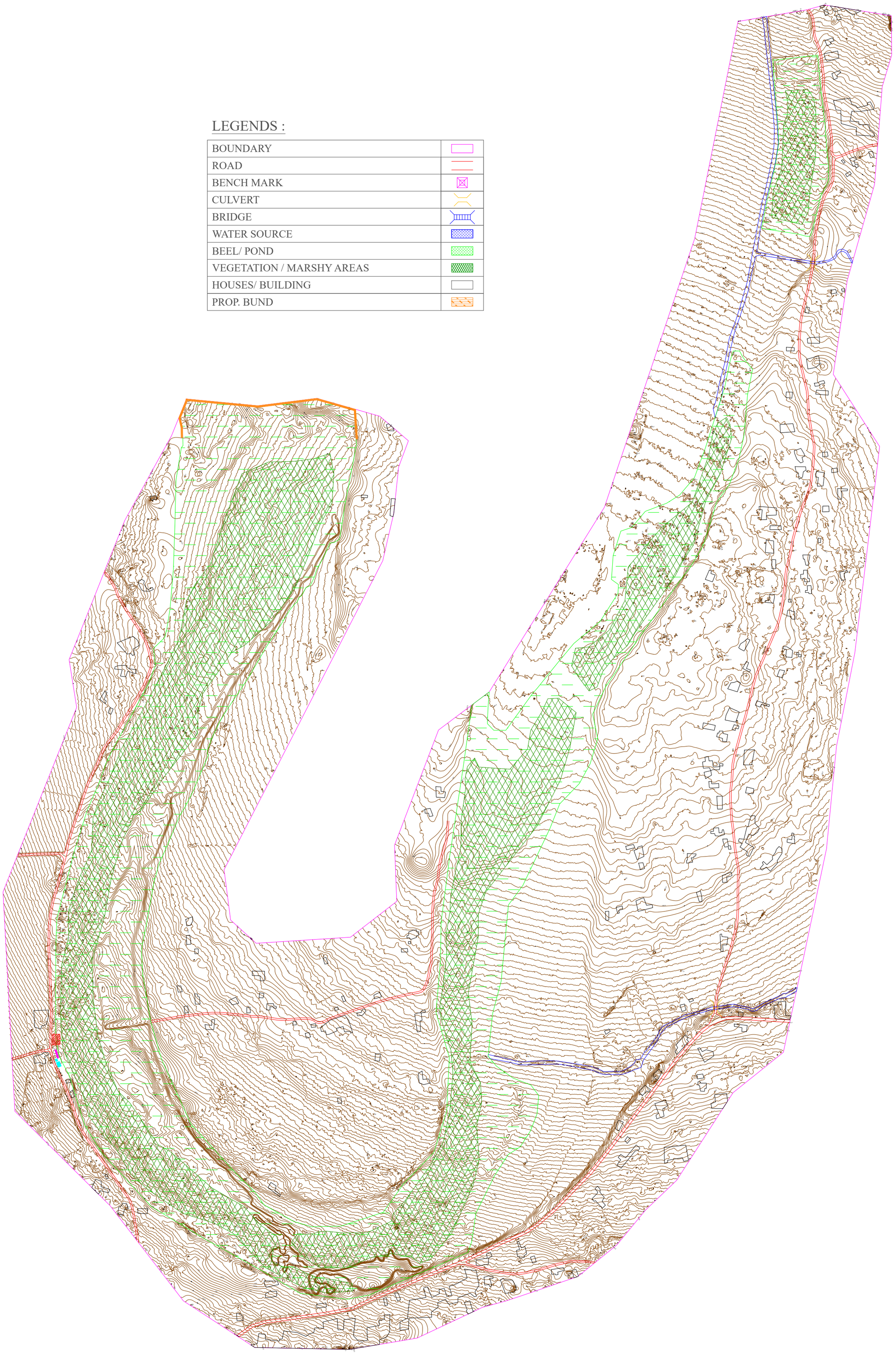
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:
DATE :	**DATE :**	**DATE :**	**DATE :**
TEAM LEAD	A.E.	E.E.	S.E.

CONTOUR MAP WITH BATHYMETRIC LEVELS OF TOKLONG BEEL

N
W E
S

LEGENDS :

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



PACKAGE NO.:
02

NAME OF THE BEEL:
TOKLONG BEEL

DEVELOPMENT BLOCK:
MARGHERITA

REVENUE VILLAGE:
TOKLONG NEPALI GAON

DISTRICT:
TINSUKIA

AREA (Ha):
25.00 Ha

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 :
CONTOUR MAP WITH BATHYMETRIC LEVELS OF TOKLONG 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 TOKLONG BEEL

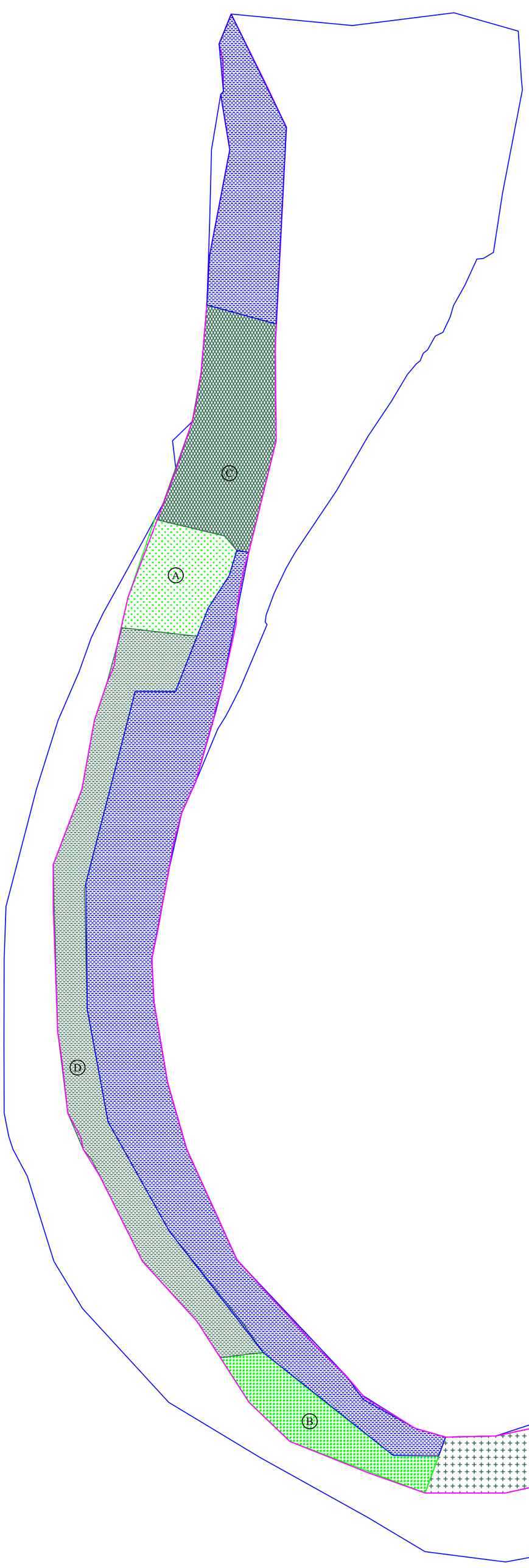
N

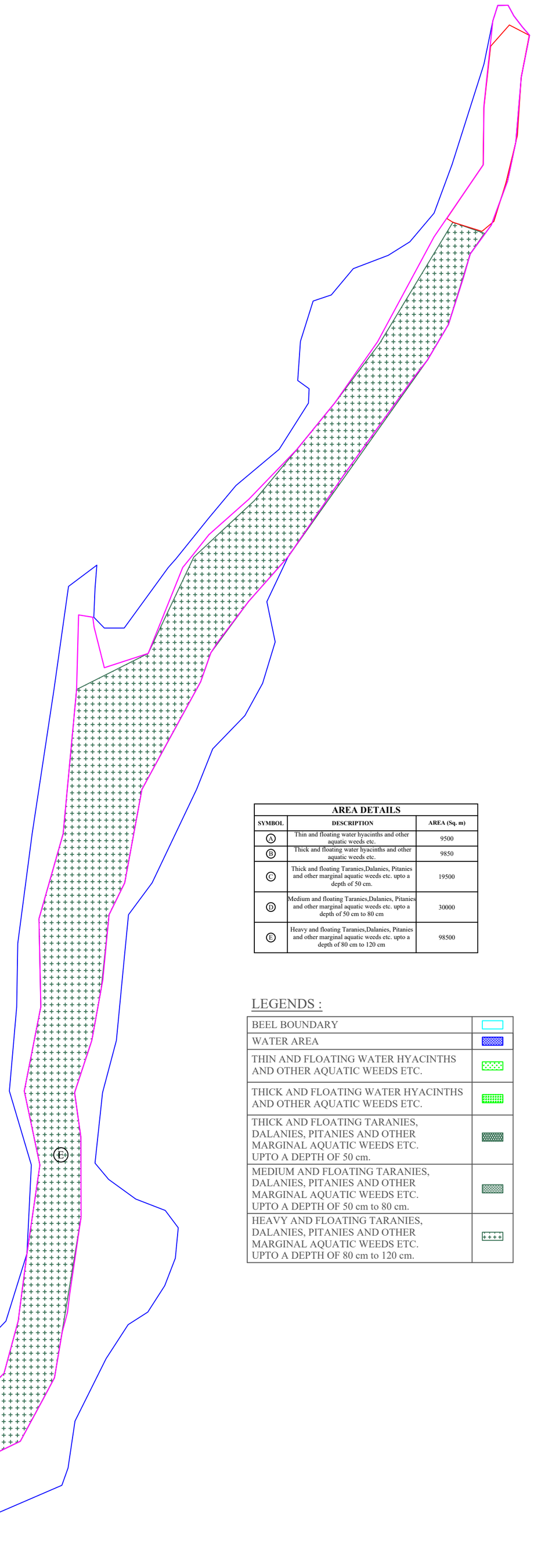
W E

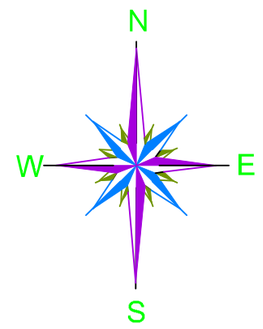
S

PACKAGE NO.:	02
NAME OF THE BEEL:	TOKLONG BEEL
DEVELOPMENT BLOCK:	MARGHERITA
REVENUE VILLAGE:	TOKLONG NEPALI GAON
DISTRICT:	TINSUKIA
AREA (Ha):	25.00 Ha
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 :	DRONE SURVEY MAP OF TOKLONG BEEL
DATE :	

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







AREA DETAILS

SYMBOL	DESCRIPTION	AREA (Sq. m)
A	Thin and floating water hyacinths and other aquatic weeds etc.	9500
B	Thick and floating water hyacinths and other aquatic weeds etc.	9850
C	Thick and floating Taranies,Dalanies, Pitanies and other marginal aquatic weeds etc. upto a depth of 50 cm.	19500
D	Medium and floating Taranies,Dalanies, Pitanies and other marginal aquatic weeds etc. upto a depth of 50 cm to 80 cm	30000
E	Heavy and floating Taranies,Dalanies, Pitanies and other marginal aquatic weeds etc. upto a depth of 80 cm to 120 cm	98500

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.	

PACKAGE NO.: 02

NAME OF THE BEEL: TOKLONG BEEL

DEVELOPMENT BLOCK: MARGHERITA

REVENUE VILLAGE: TOKLONG NEPALI GAON

DISTRICT: TINSUKIA

AREA (Ha): 25.00 Ha

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 : DEWEEDING LAYOUT OF TOKLONG BEEL

DATE :

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

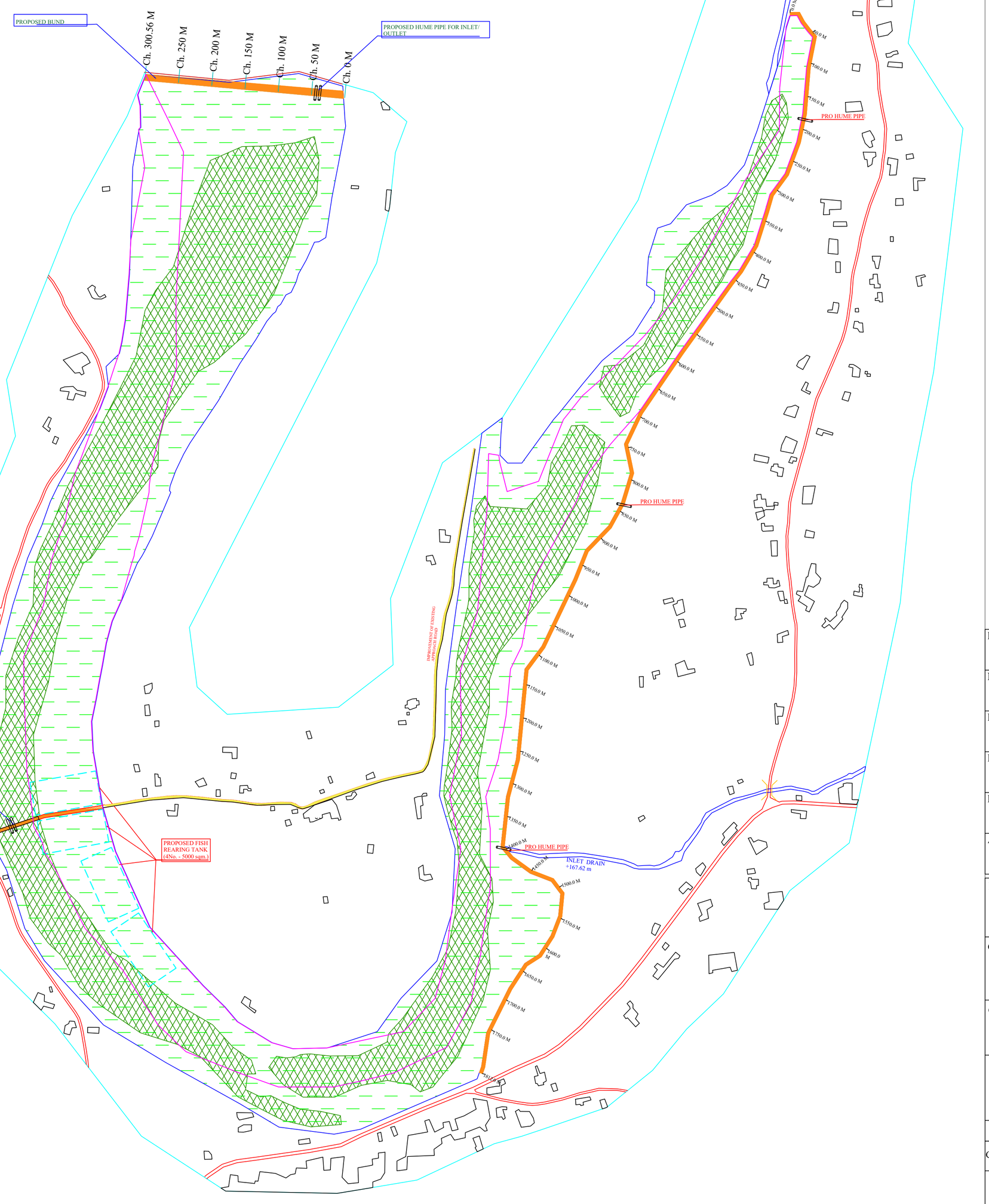
MASTER PLAN LAYOUT OF TOKLONG BEEL

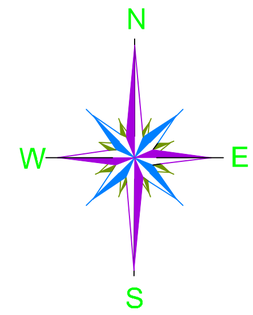
LEGENDS :

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

PROPOSED WORKS

DESCRIPTION OF WORK	SPECIFICATION
Inlet Channel	0 m
Silt Trap	140 m
Earthen Bund	2112 m
Desilting	56375 cum
Deweeding	167350 sqm
Fish Rearing Tank	4 Nos. (100x50x1.5) cum
Community Hall & Fish Landing Site	1 Nos. (40) sqm
Bamboo barrage at outlet	301m
Approach Road	980 m
Demarkation Pillar	192 Nos.





PACKAGE NO.: 02

NAME OF THE BEEL: TOKLONG BEEL

DEVELOPMENT BLOCK: MARGHERITA

REVENUE VILLAGE: TOKLONG NEPALI GAON

DISTRICT: TINSUKIA

AREA (Ha): 25.00 Ha

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

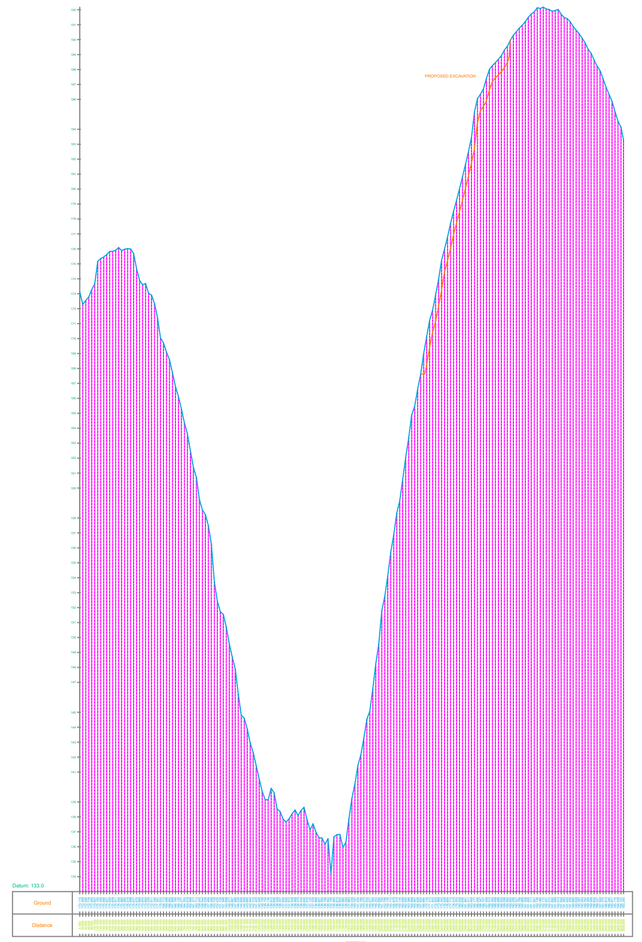
CLIENT : ARIAS Society, GOVERNMENT OF ASSAM, Assam Rural Infrastructure and Agricultural Services Society

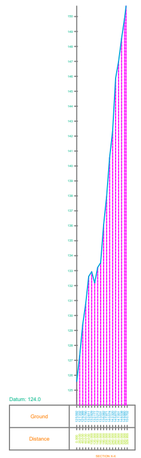
CONSULTANT : Shubh Consultants & Technocrats LLP

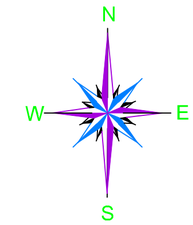
DWG TITLE : MASTER PLAN LAYOUT OF TOKLONG BEEL

DATE :

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



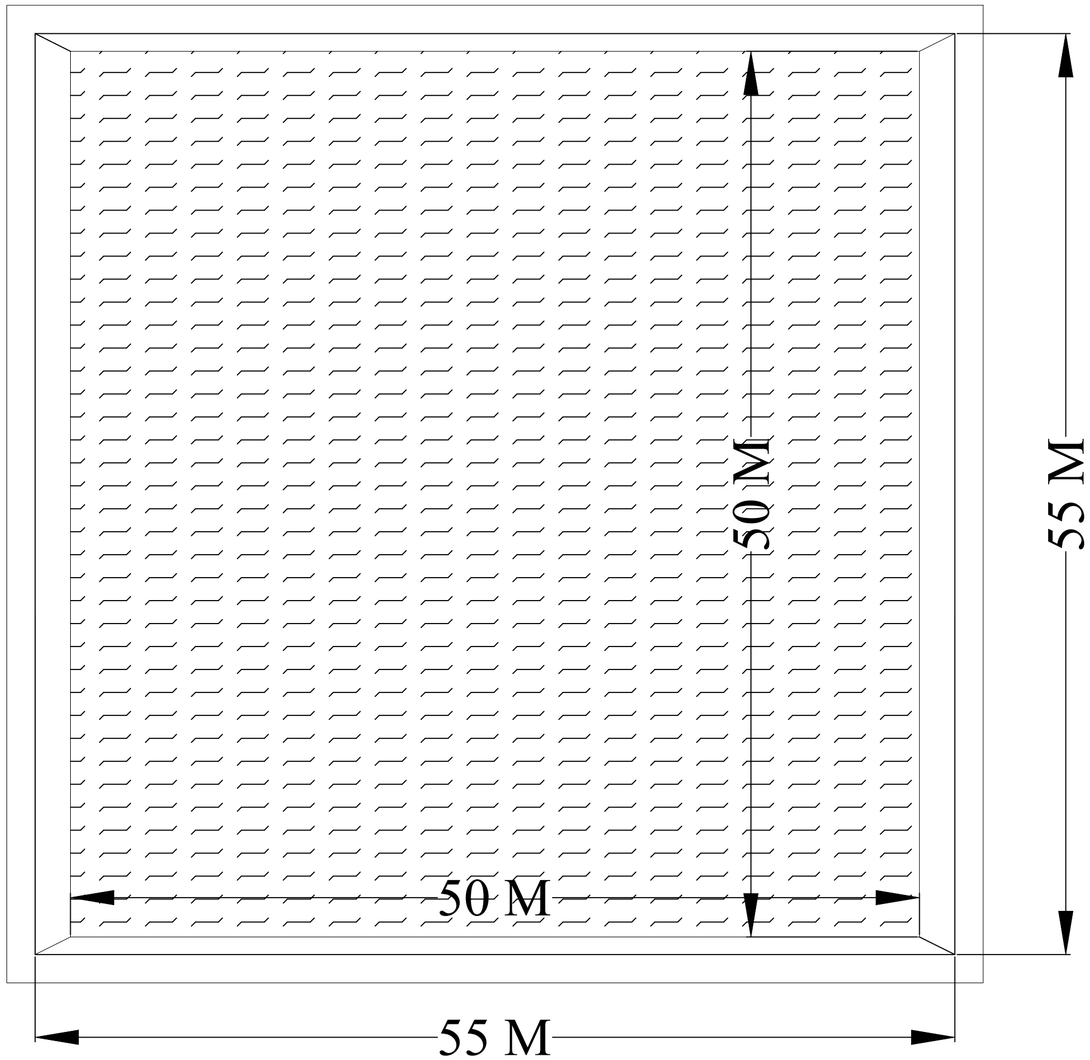




PACKAGE NO.:	02
NAME OF THE BEEL:	TOKLONG BEEL
DEVELOPMENT BLOCK:	MARGHERITA
REVENUE VILLAGE:	1 NO TOKLONG NEPALI GAON
DISTRICT:	TINSUKIA
AREA (Ha):	52.0Ha
PROJECT TITLE:	Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project
CLIENT :	ARIAS Society, GOVERNMENT OF ASSAM, Assam Rural Infrastructure and Agricultural Services Society
CONSULTANT :	Shubh Consultants & Technocrats LLP
DWG TITLE :	BEEL CROSS SECTION DRAWING
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

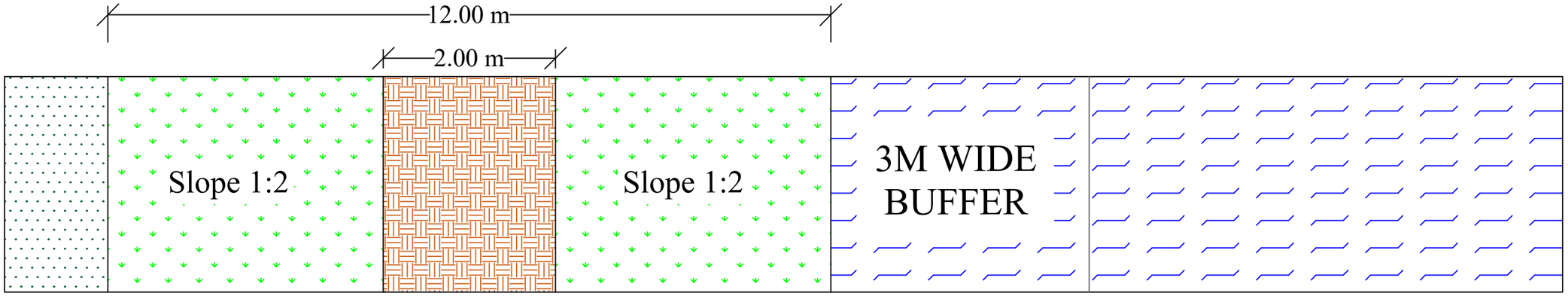
PROJECT TITLE:
Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

CLIENT :

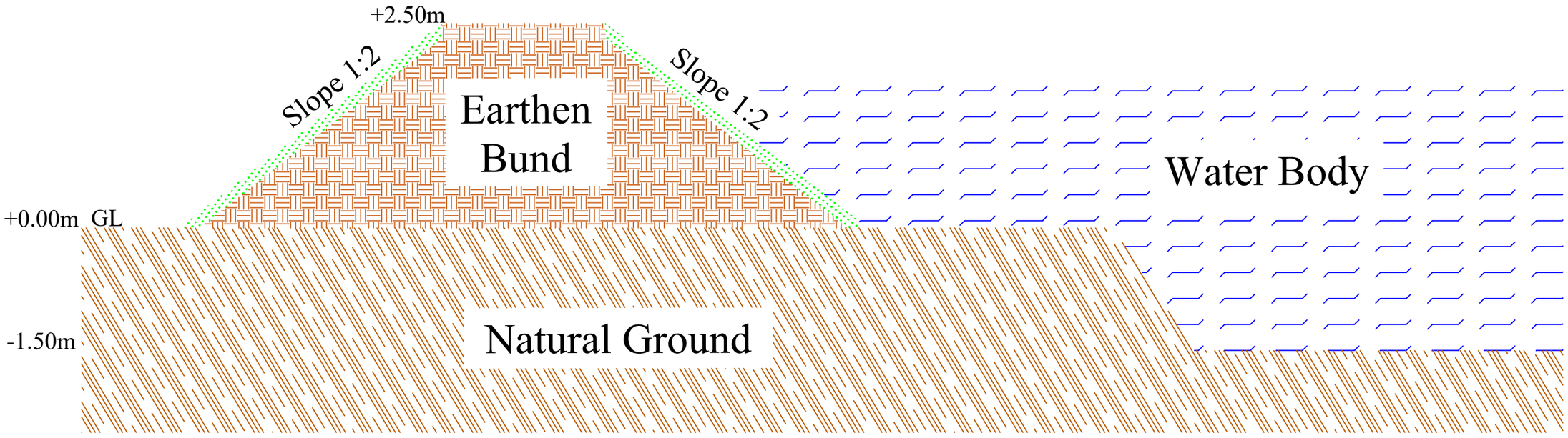
CONSULTANT :

DWG TITLE :
TYPICAL PLAN & SECTION OF REARING TANK OF 2500 SQM

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



PLAN



CROSS - SECTION

SCALE: NOT TO SCALE

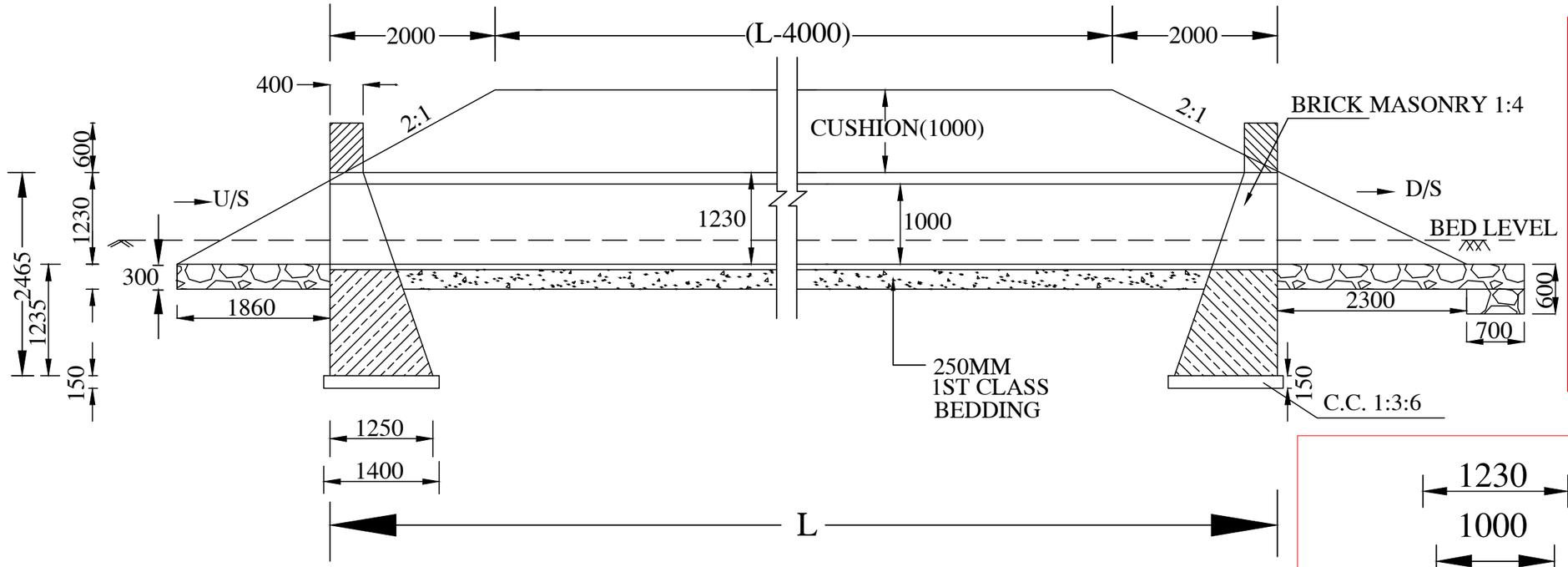
PROJECT TITLE:
Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

CLIENT : ARIAS Society, Government of Assam — Assam Rural Infrastructure and Agricultural Services Society

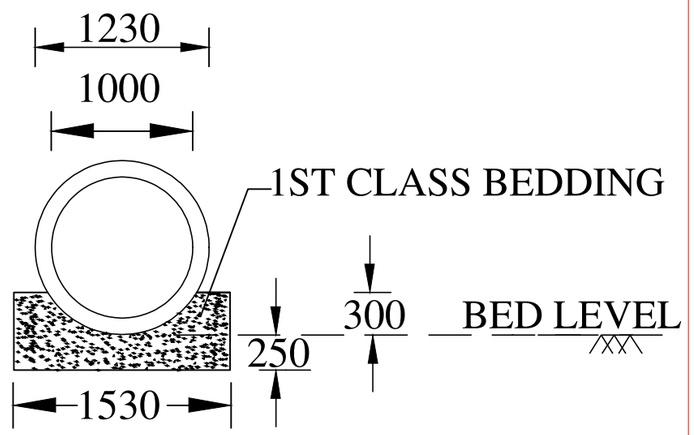
CONSULTANT : Shubh Consultants & Technocrats LLP

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

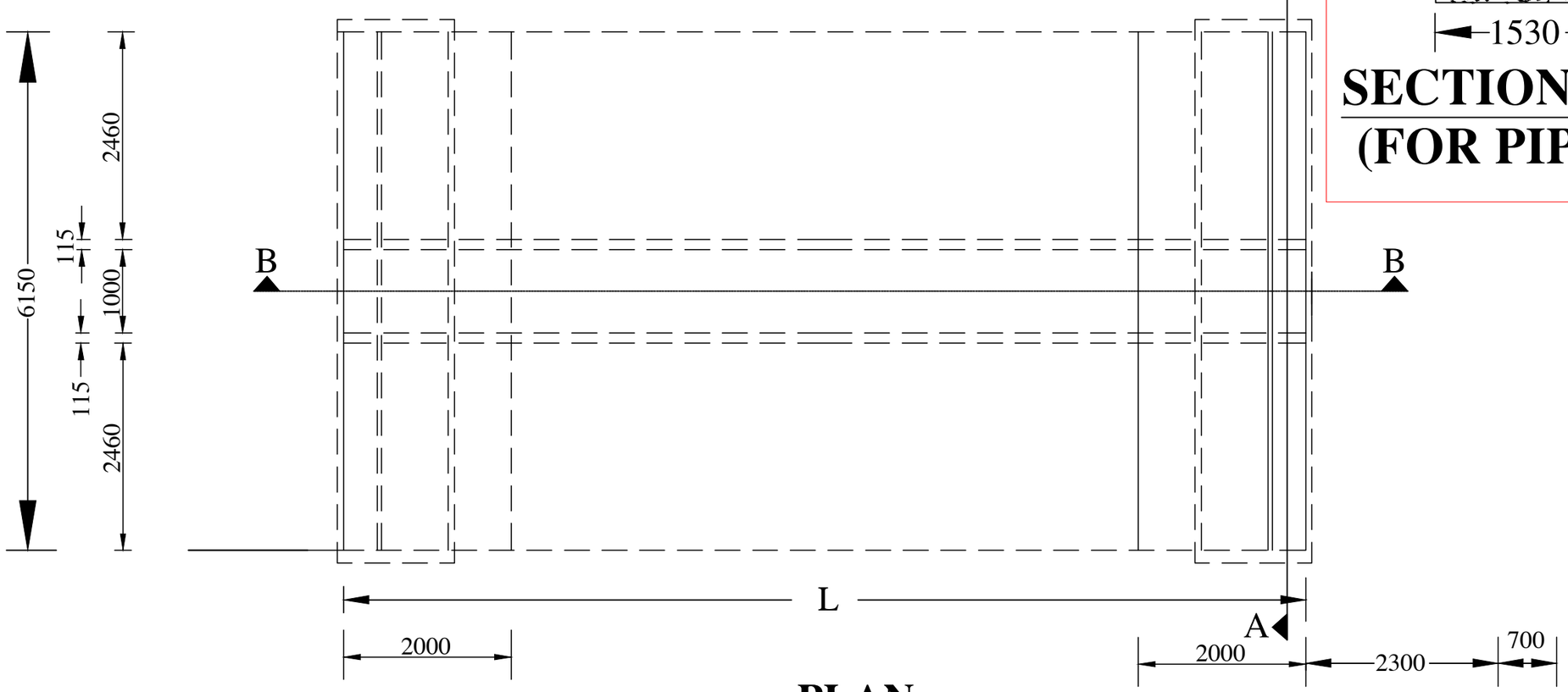
DATE :			
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:
DATE :	DATE :	DATE :	DATE :
TEAM LEAD	A.E.	E.E.	S.E.



SECTION AT B-B



SECTION AT A-A (FOR PIPE BED)



PLAN

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

SCALE: NOT TO SCALE

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

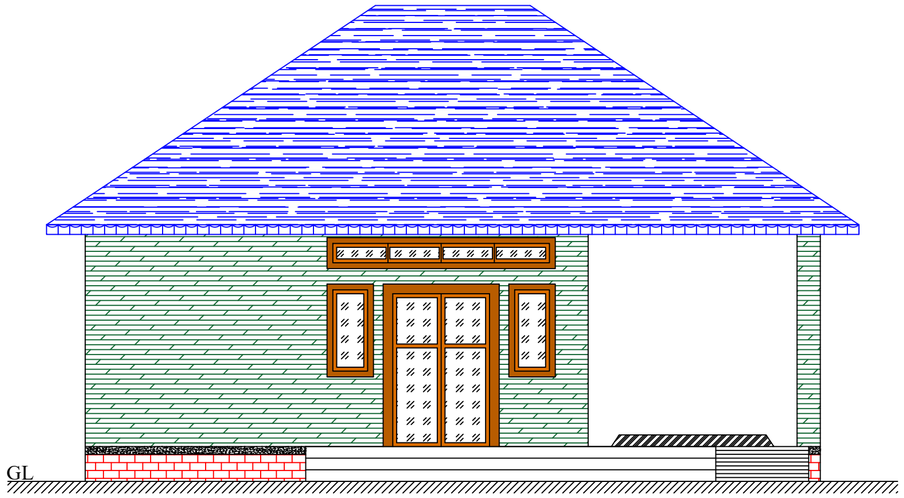
CLIENT : ARIAS Society, Government of Assam, Assam Rural Infrastructure and Agricultural Services Society

CONSULTANT : Shubh Consultants & Technocrats LLP

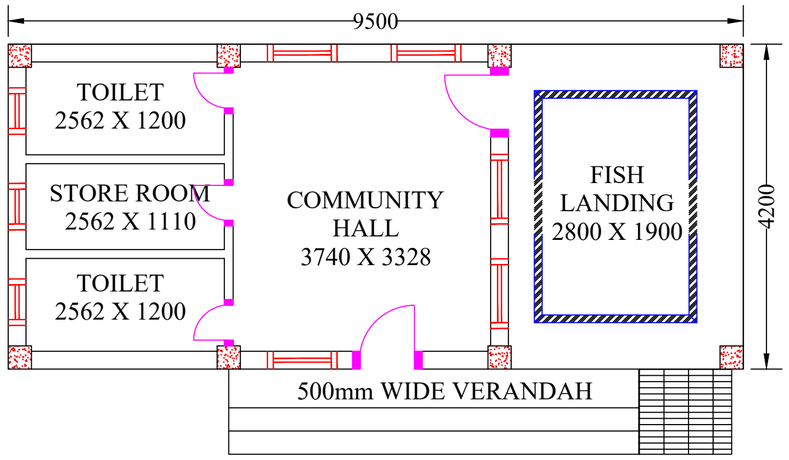
DWG TITLE :
STANDARD DRAWING
RCC PIPE CULVERT WITH SINGLE PIPE
1 METRE DIA,NP-3
(REF: IRC:SP20)

DATE :

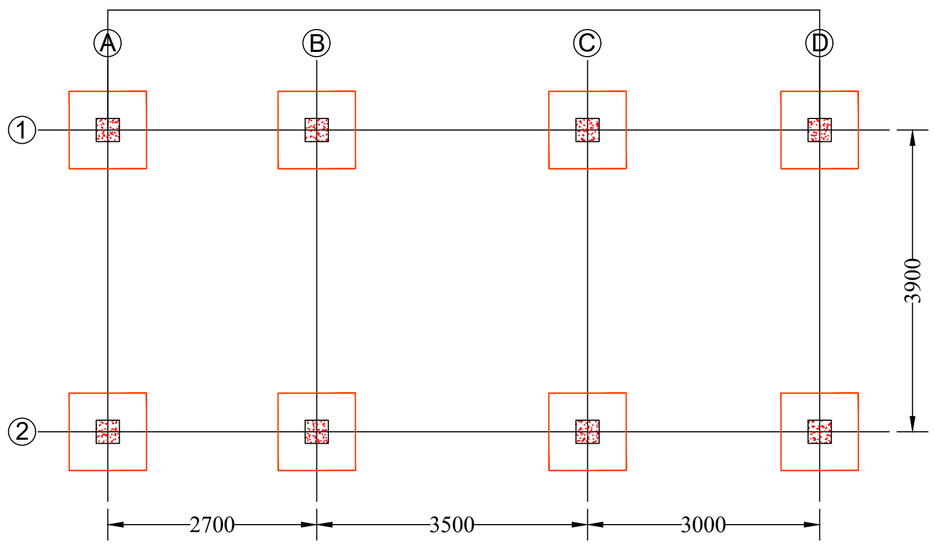
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:
DATE :	**DATE :**	**DATE :**	**DATE :**
TEAM LEAD	A.E.	E.E.	S.E.



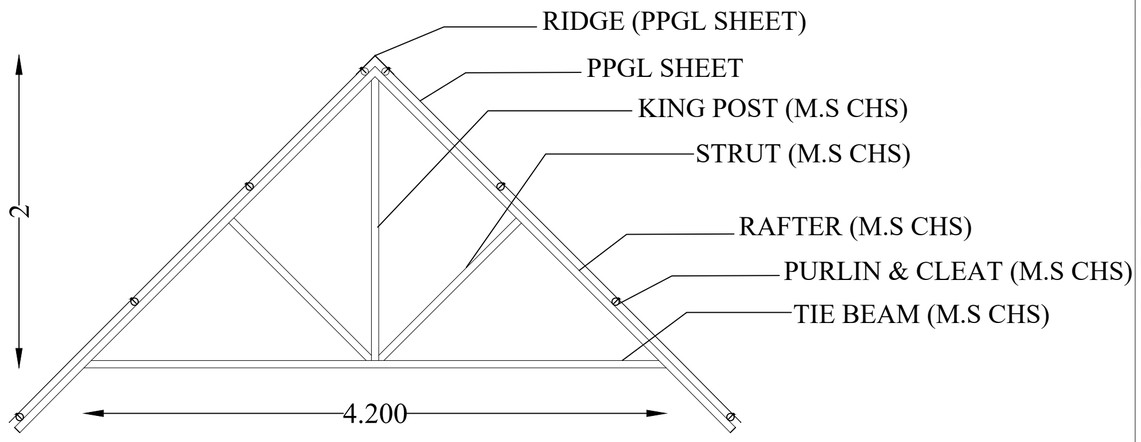
FRONT ELEVATION

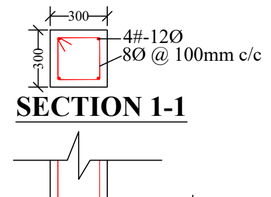


PLAN

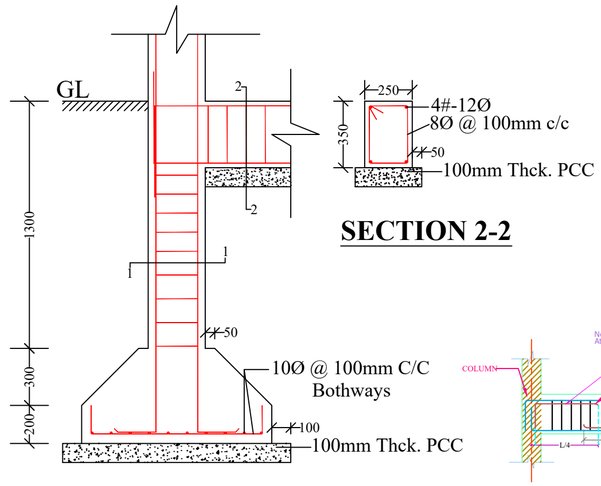


FOOTING LAYOUT



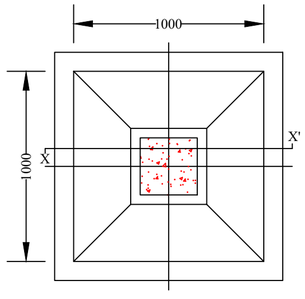


SECTION 1-1

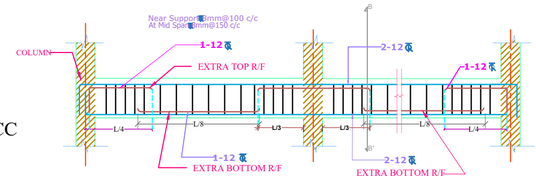


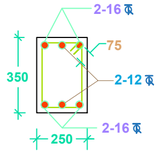
SECTION 2-2

SECTION X-X'



FOOTING PLAN





SEC: C-C'

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

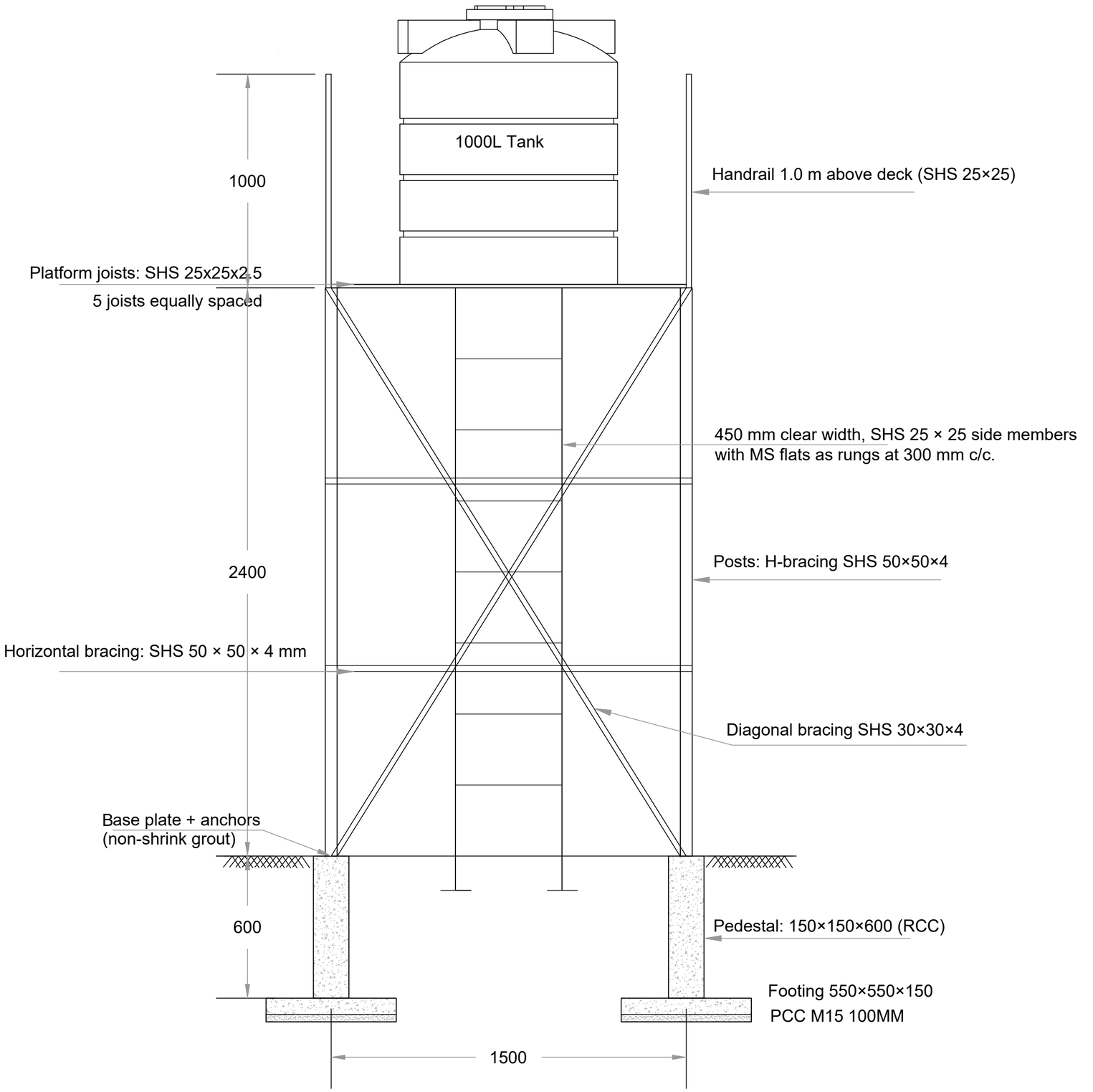
CLIENT :
ARIAS SOCIETY

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 ARRANGEMENT DRAWING FOR 1000L TANK WITH STAGING

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

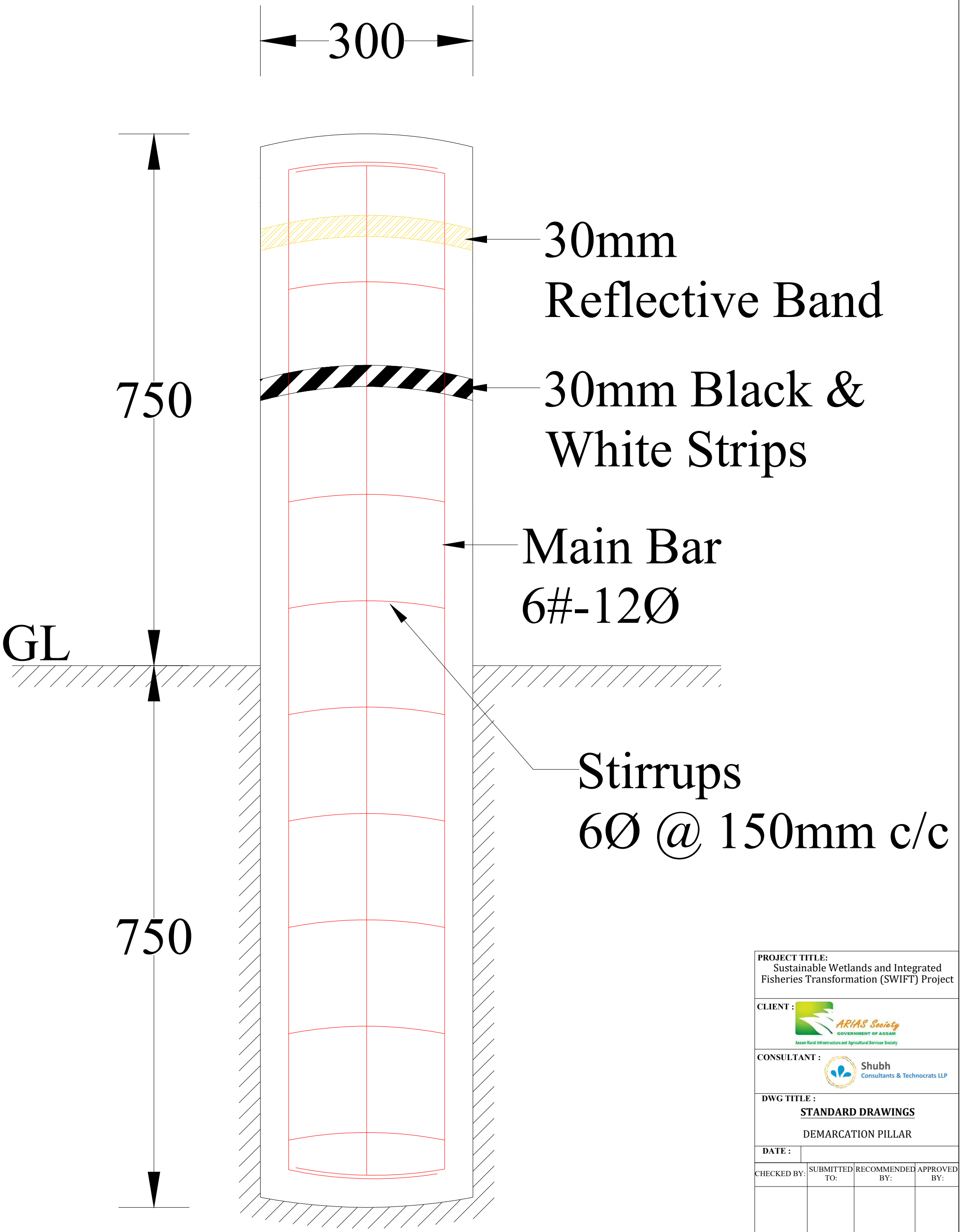
CONSULTANT : SHUBH CONSULTANTS AND TECHNOCRATS LLP

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

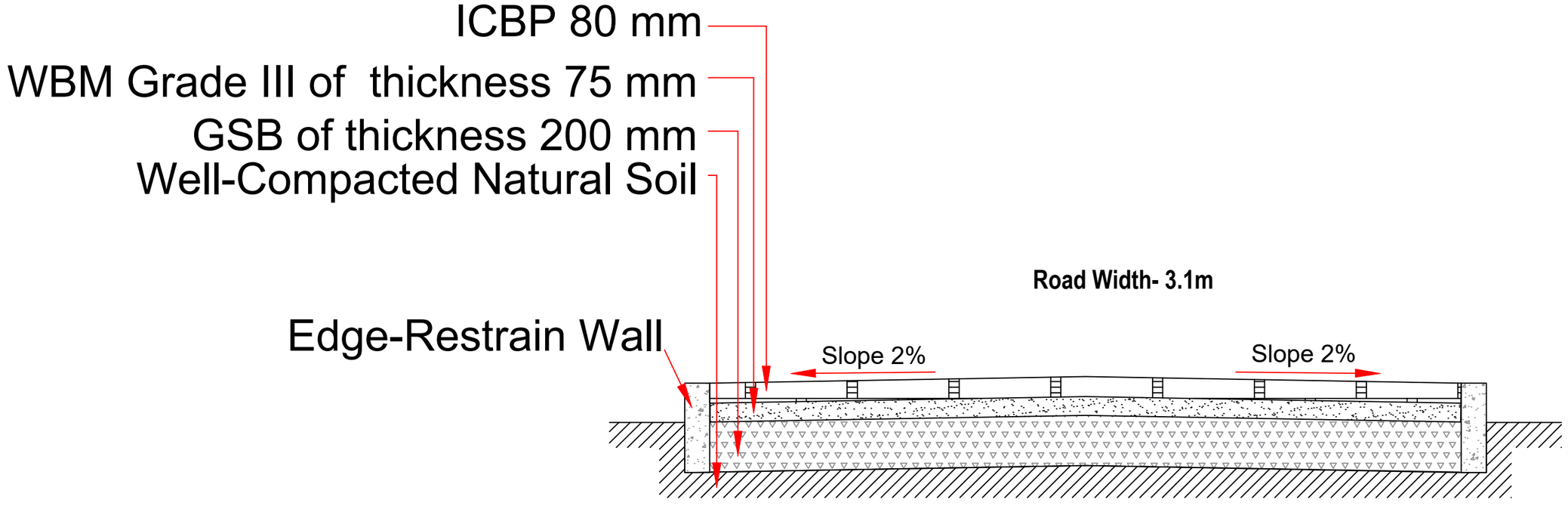
DWG TITLE :

STANDARD DRAWINGS

DEMARCATION PILLAR

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

TYPICAL SECTION OF APPROACH ROAD



SCALE: NOT TO SCALE

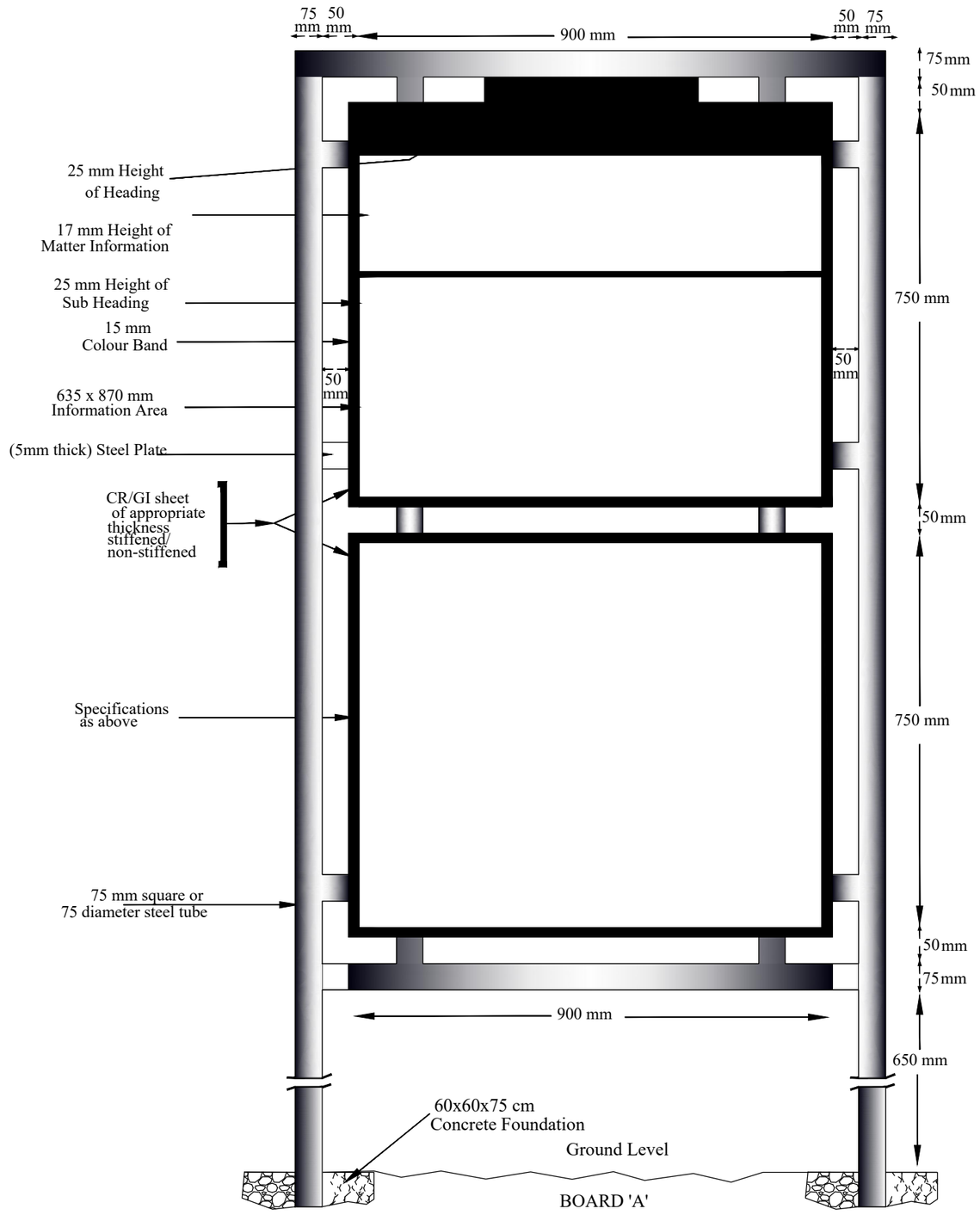
PROJECT TITLE:
Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

CLIENT : ARIAS Society, Government of Assam

CONSULTANT : Shubh Consultants & Technocrats LLP

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.



PROJECT TITLE:

Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

CLIENT : ARIAS SOCIETY

CONSULTANT : SHUBH CONSULTANTS AND TECHNOCRATS LLP

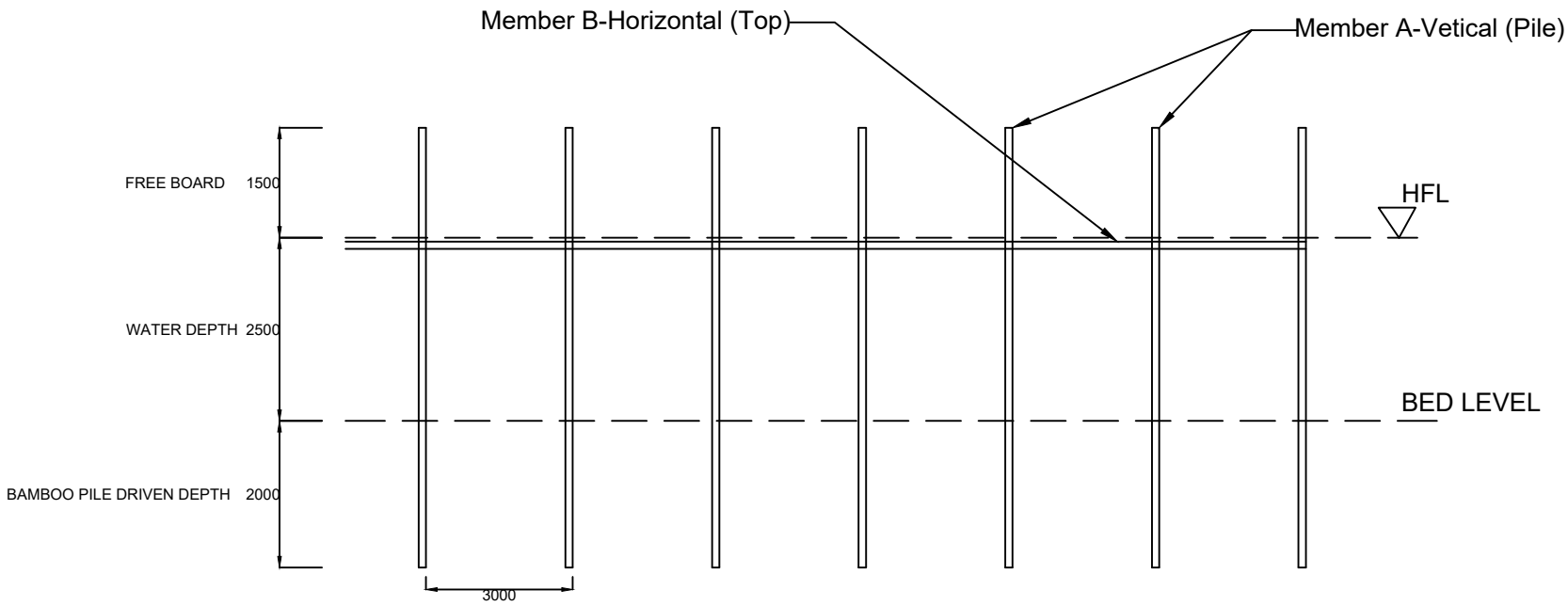
DWG TITLE :

STANDARD DRAWING

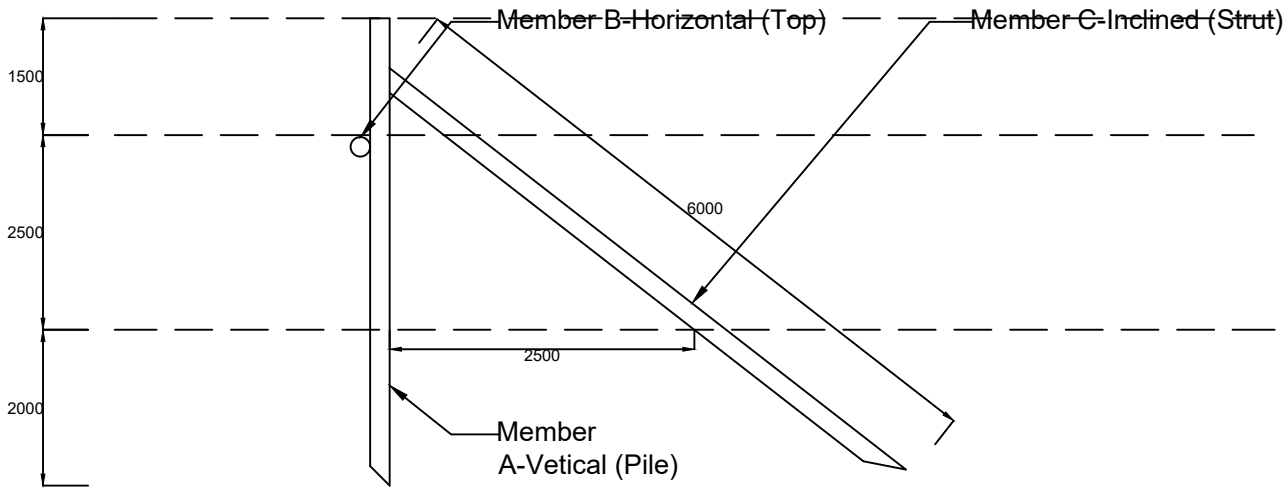
INFORMATION BOARD

DATE :

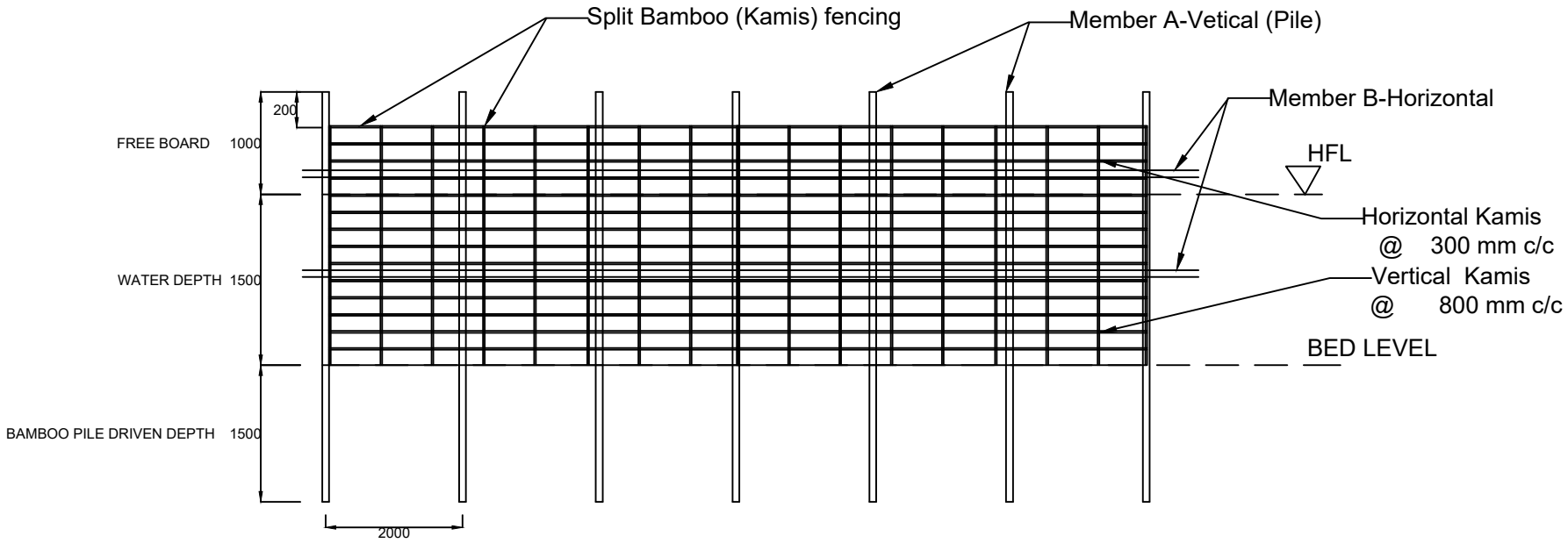
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:
TEAM LEAD	A.E.	E.E.	S.E.



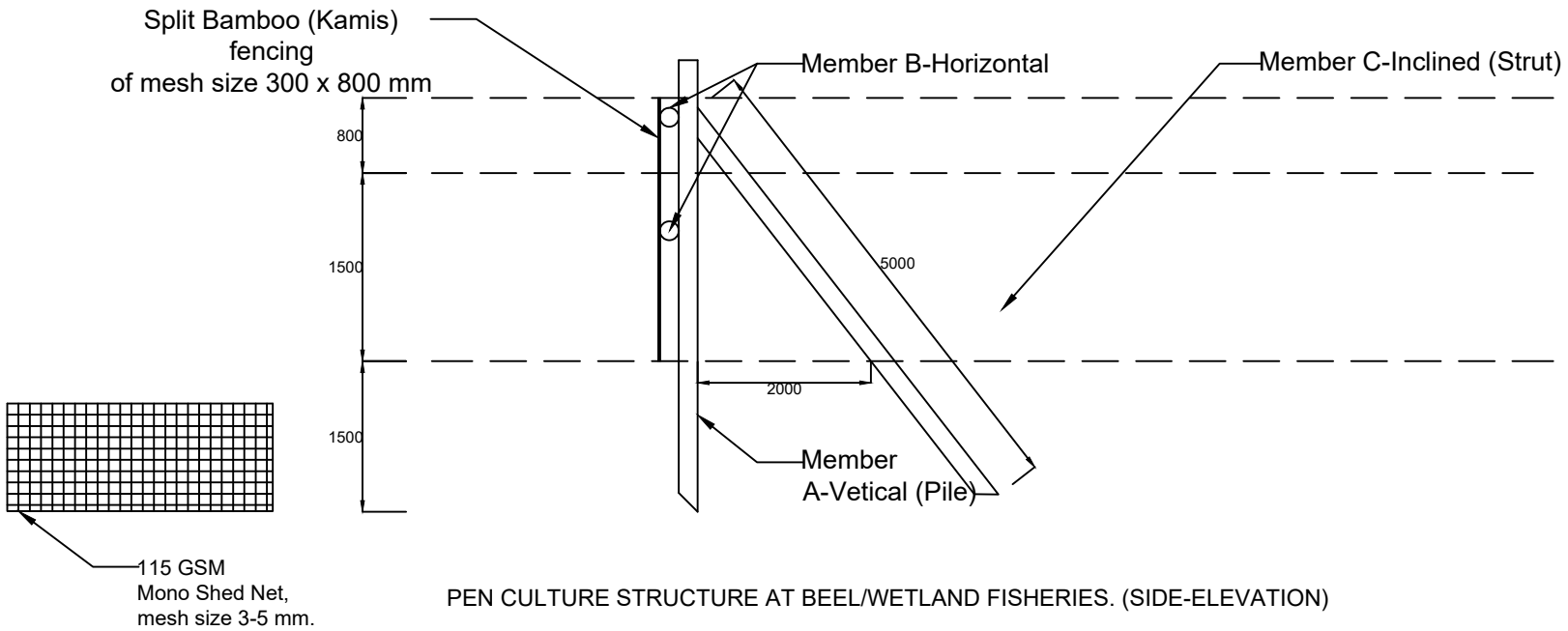
KATAL/CATTLE FISHING STRUCTURE AT BEEL/WETLAND FISHERIES. (FRONT-ELEVATION)



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



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



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