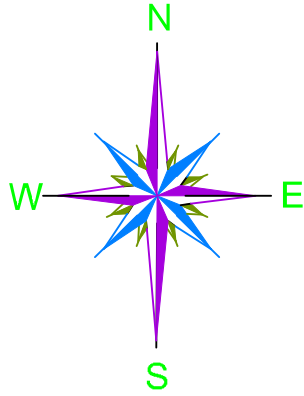
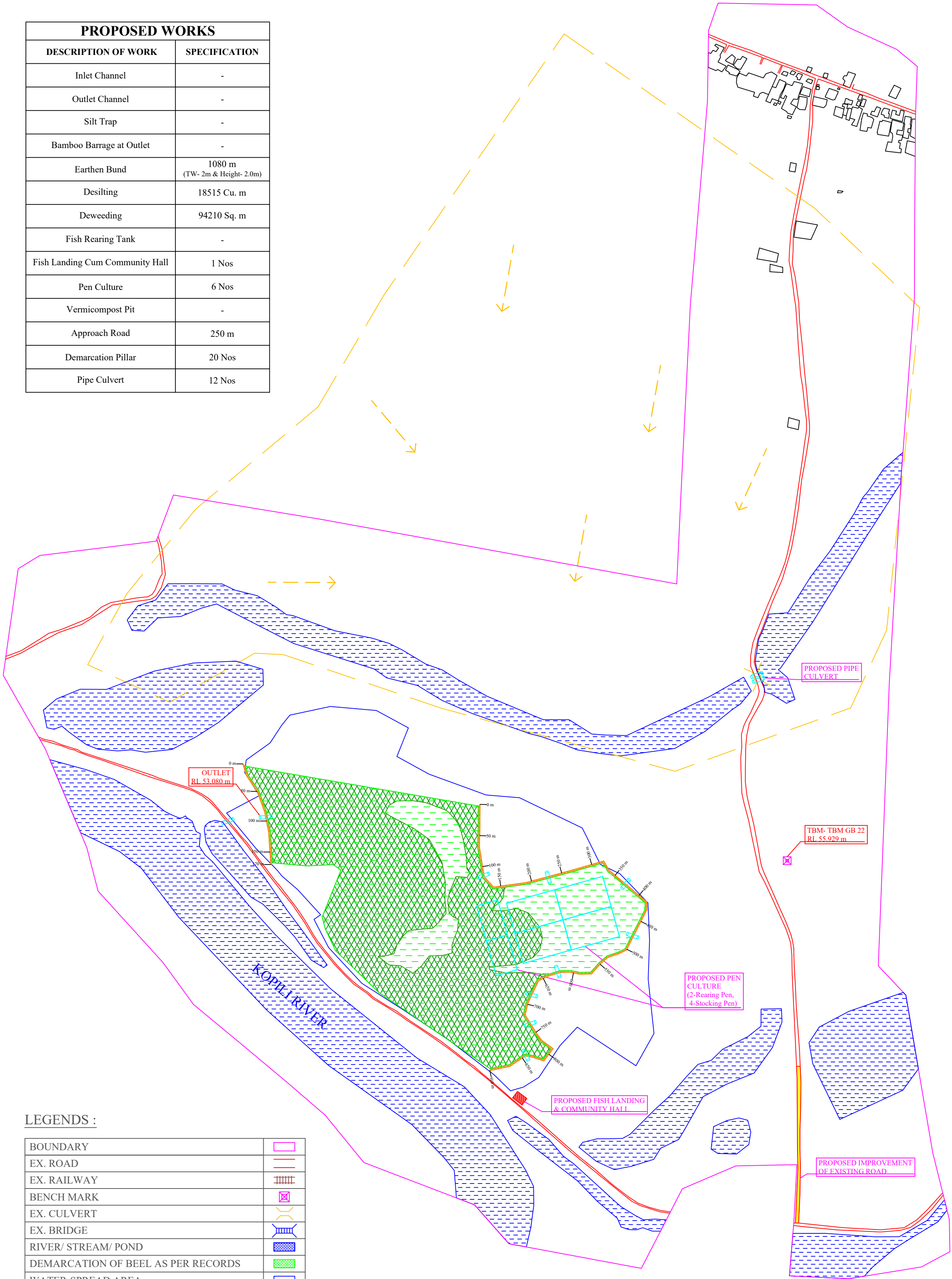


# MASTERPLAN LAYOUT OF BECHAMARI BEEL



| PROPOSED WORKS                  |                                   |
|---------------------------------|-----------------------------------|
| DESCRIPTION OF WORK             | SPECIFICATION                     |
| Inlet Channel                   | -                                 |
| Outlet Channel                  | -                                 |
| Silt Trap                       | -                                 |
| Bamboo Barrage at Outlet        | -                                 |
| Earthen Bund                    | 1080 m<br>(TW- 2m & Height- 2.0m) |
| Desilting                       | 18515 Cu. m                       |
| Deweeding                       | 94210 Sq. m                       |
| Fish Rearing Tank               | -                                 |
| Fish Landing Cum Community Hall | 1 Nos                             |
| Pen Culture                     | 6 Nos                             |
| Vermicompost Pit                | -                                 |
| Approach Road                   | 250 m                             |
| Demarcation Pillar              | 20 Nos                            |
| Pipe Culvert                    | 12 Nos                            |

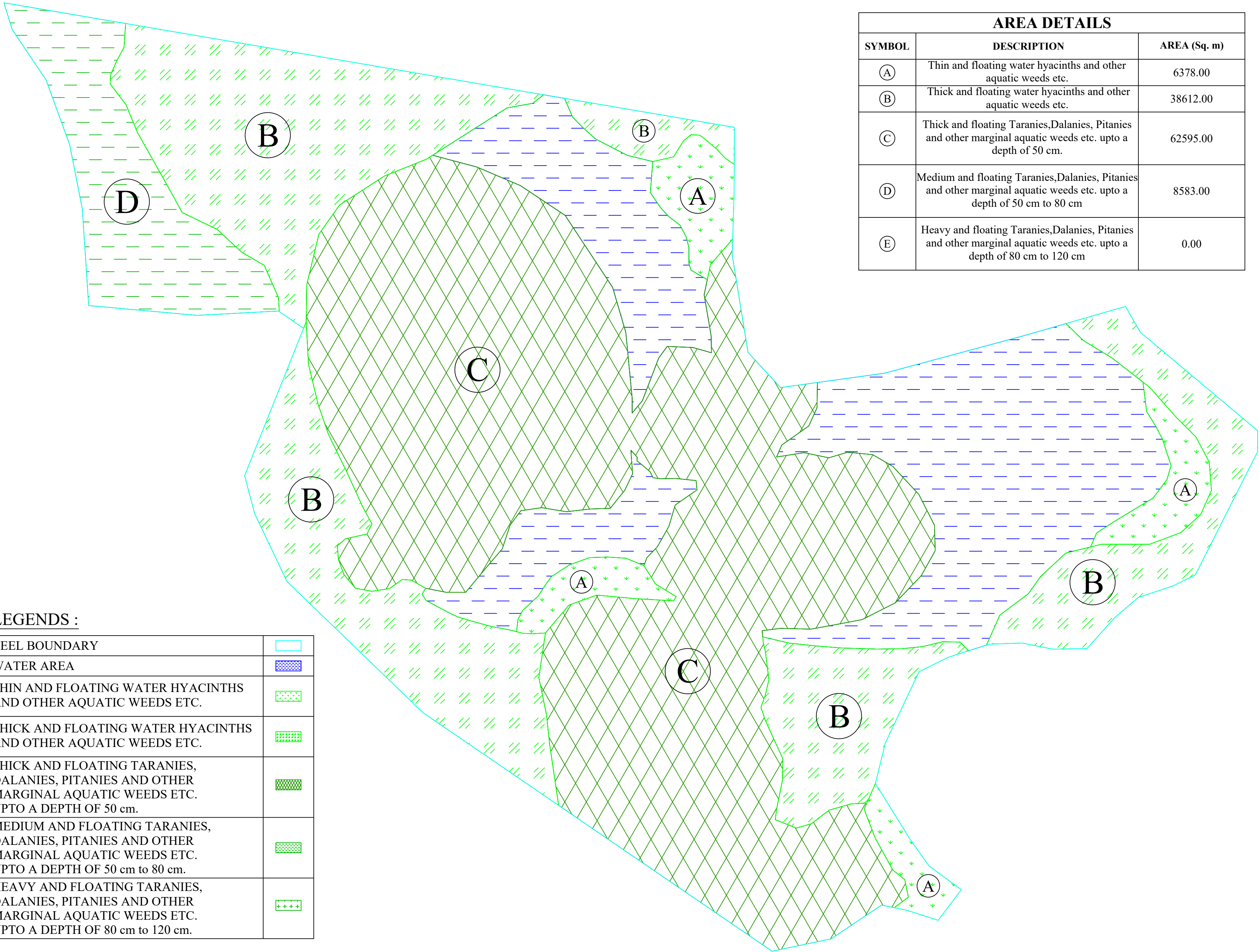


## LEGENDS :

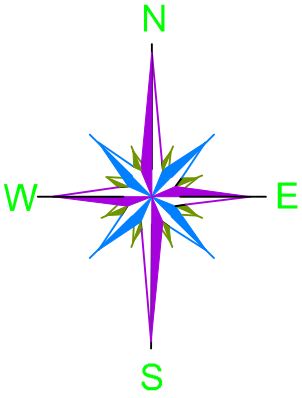
|                                       |  |
|---------------------------------------|--|
| BOUNDARY                              |  |
| EX. ROAD                              |  |
| EX. RAILWAY                           |  |
| BENCH MARK                            |  |
| EX. CULVERT                 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

|                                                                                                    |               |                 |              |
|----------------------------------------------------------------------------------------------------|---------------|-----------------|--------------|
| PACKAGE NO.: 04                                                                                    |               |                 |              |
| NAME OF THE BEEL: BECHAMARI BEEL                                                                   |               |                 |              |
| DEVELOPMENT BLOCK: MAYONG                                                                          |               |                 |              |
| REVENUE VILLAGE: JURGAON                                                                           |               |                 |              |
| DISTRICT: MORIGAON                                                                                 |               |                 |              |
| AREA (Ha): 14.55 Ha                                                                                |               |                 |              |
| PROJECT TITLE: Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project        |               |                 |              |
| CLIENT :      |               |                 |              |
| CONSULTANT :  |               |                 |              |
| DWG TITLE : MASTERPLAN LAYOUT OF BECHAMARI 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.                                                       | 6378.00      |
| (B)          | Thick and floating water hyacinths and other aquatic weeds etc.                                                      | 38612.00     |
| (C)          | Thick and floating Taranies,Dalanies, Pitanyes and other marginal aquatic weeds etc. upto a depth of 50 cm.          | 62595.00     |
| (D)          | Medium and floating Taranies,Dalanies, Pitanyes and other marginal aquatic weeds etc. upto a depth of 50 cm to 80 cm | 8583.00      |
| (E)          | Heavy and floating Taranies,Dalanies, Pitanyes and other marginal aquatic weeds etc. upto a depth of 80 cm to 120 cm | 0.00         |

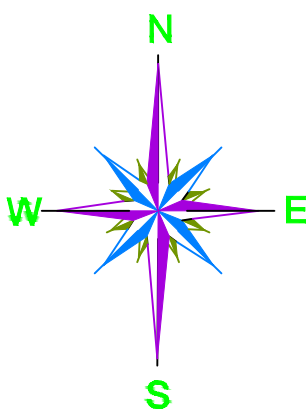


LEGENDS :

|                                                                                                                        |  |
|------------------------------------------------------------------------------------------------------------------------|--|
| 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.: 04                                                                                    |               |                 |              |
| NAME OF THE BEEL: BECHAMARI BEEL                                                                   |               |                 |              |
| DEVELOPMENT BLOCK: MAYONG                                                                          |               |                 |              |
| REVENUE VILLAGE: JURGAON                                                                           |               |                 |              |
| DISTRICT: MORIGAON                                                                                 |               |                 |              |
| AREA (Ha): 14.55 Ha                                                                                |               |                 |              |
| PROJECT TITLE: Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project        |               |                 |              |
| CLIENT :      |               |                 |              |
| CONSULTANT :  |               |                 |              |
| DWG TITLE : DEWEEDING DRAWING OF BECHAMARI 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 BECHAMARI BEEL

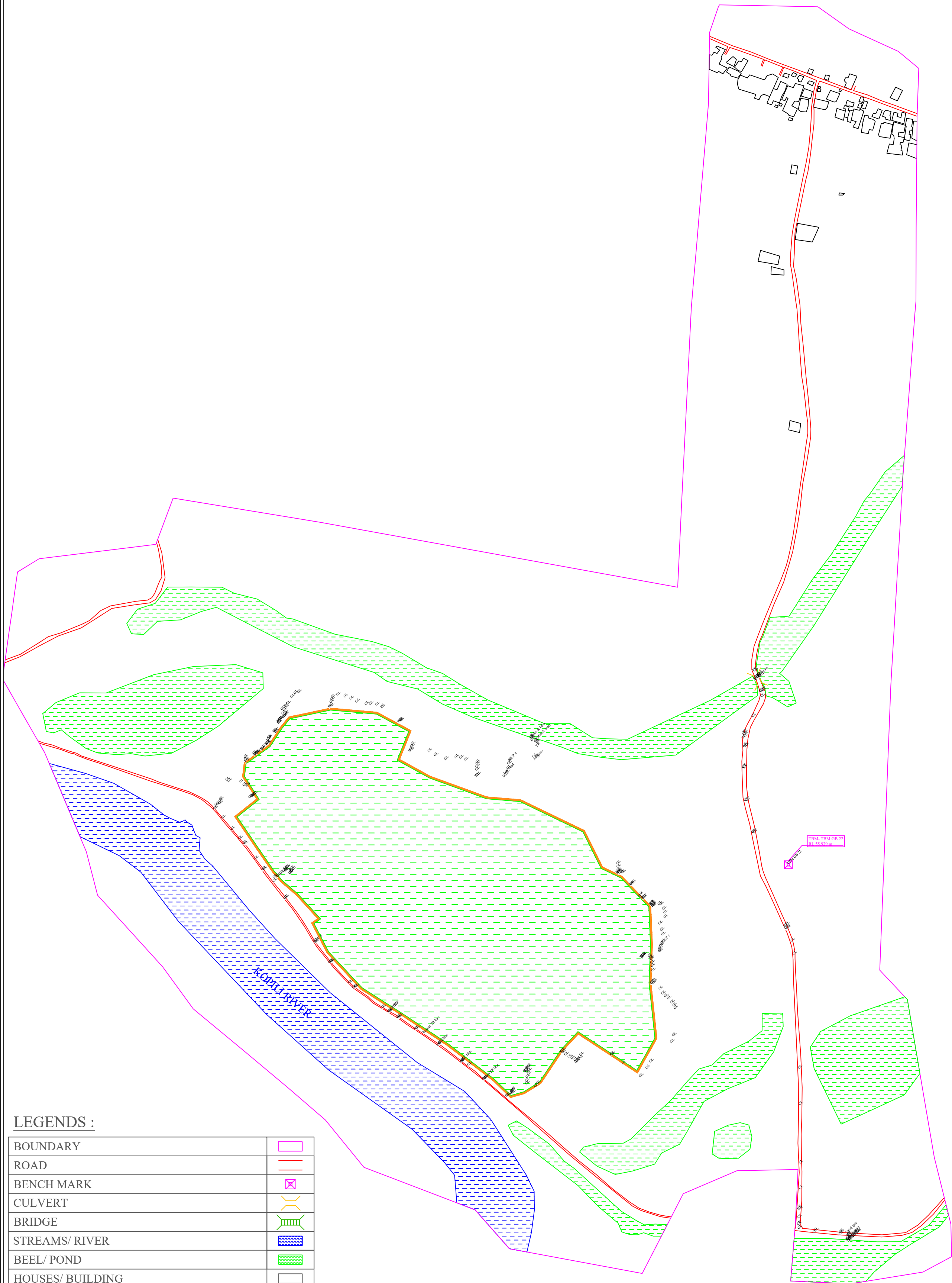
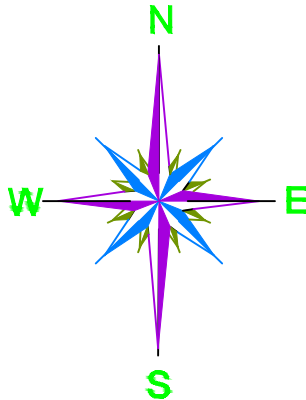


LEGENDS :

|                  |  |
|------------------|--|
| BOUNDARY         |  |
| ROAD             |  |
| BENCH MARK       |  |
| CULVERT          |  |
| BRIDGE           |  |
| STREAMS/ RIVER   |  |
| BEEL/ POND       |  |
| HOUSES/ BUILDING |  |
| PROP. BUND       |  |

|                                                                              |               |                 |              |
|------------------------------------------------------------------------------|---------------|-----------------|--------------|
| PACKAGE NO.:                                                                 |               |                 |              |
| 04                                                                           |               |                 |              |
| NAME OF THE BEEL:                                                            |               |                 |              |
| BECHAMARI BEEL                                                               |               |                 |              |
| DEVELOPMENT BLOCK:                                                           |               |                 |              |
| MAYONG                                                                       |               |                 |              |
| REVENUE VILLAGE:                                                             |               |                 |              |
| JURGAON                                                                      |               |                 |              |
| DISTRICT:                                                                    |               |                 |              |
| MORIGAON                                                                     |               |                 |              |
| AREA (Ha):                                                                   |               |                 |              |
| 14.55 Ha                                                                     |               |                 |              |
| PROJECT TITLE:                                                               |               |                 |              |
| Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project |               |                 |              |
| CLIENT :                                                                     |               |                 |              |
| <div></div>                                                                  |               |                 |              |
| CONSULTANT :                                                                 |               |                 |              |
| <div></div>                                                                  |               |                 |              |
| DWG TITLE :                                                                  |               |                 |              |
| CONTOUR MAP WITH BATHYMETRIC LEVELS OF BECHAMARI BEEL                        |               |                 |              |
| DATE :                                                                       |               |                 |              |
| CHECKED BY:                                                                  | SUBMITTED TO: | RECOMMENDED BY: | APPROVED BY: |
|                                                                              |               |                 |              |
| DATE :                                                                       | DATE :        | DATE :          | DATE :       |
| TEAM LEAD                                                                    | A.E.          | E.E.            | S.E.         |

MASTERPLAN LAYOUT OF BECHAMARI BEEL

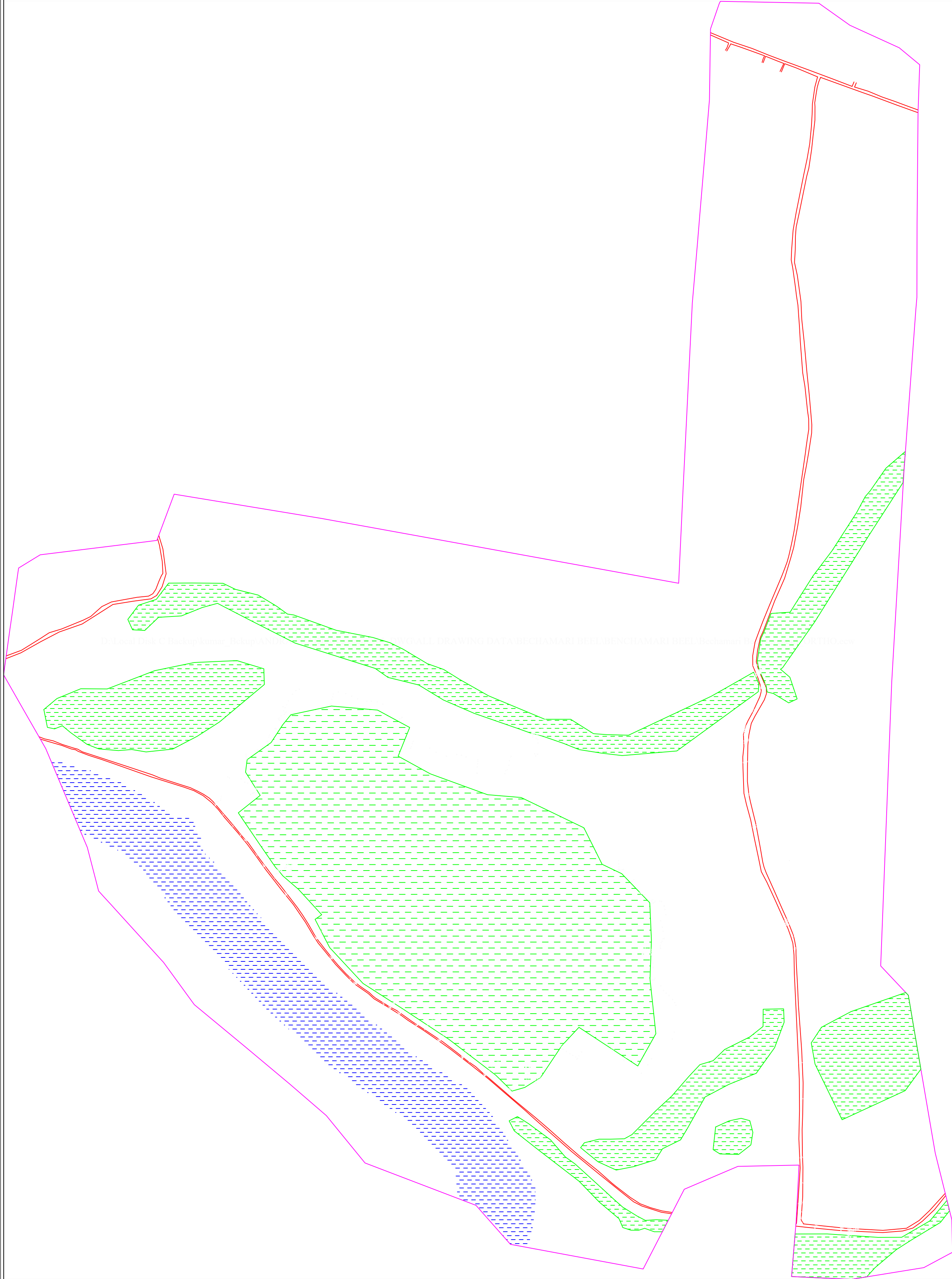
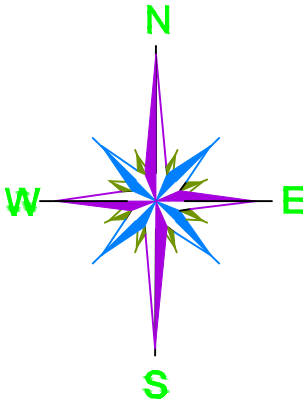


LEGENDS :

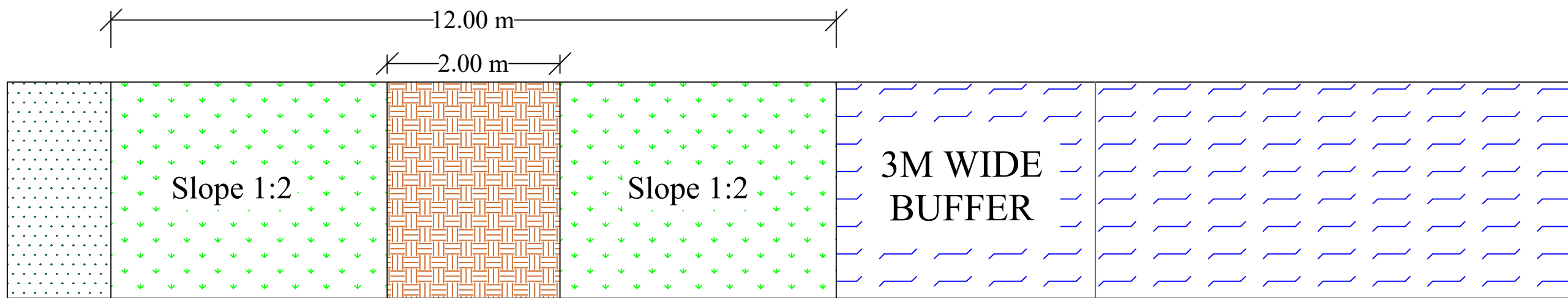
|                  |  |
|------------------|--|
| BOUNDARY         |  |
| ROAD             |  |
| BENCH MARK       |  |
| CULVERT          |  |
| BRIDGE           |  |
| STREAMS/ RIVER   |  |
| BEEL/ POND       |  |
| HOUSES/ BUILDING |  |
| PROP. BUND       |  |

|                                                                              |               |                 |              |
|------------------------------------------------------------------------------|---------------|-----------------|--------------|
| PACKAGE NO.:                                                                 |               |                 |              |
| 04                                                                           |               |                 |              |
| NAME OF THE BEEL:                                                            |               |                 |              |
| BECHAMARI BEEL                                                               |               |                 |              |
| DEVELOPMENT BLOCK:                                                           |               |                 |              |
| MAYONG                                                                       |               |                 |              |
| REVENUE VILLAGE:                                                             |               |                 |              |
| JURGAON                                                                      |               |                 |              |
| DISTRICT:                                                                    |               |                 |              |
| MORIGAON                                                                     |               |                 |              |
| AREA (Ha):                                                                   |               |                 |              |
| 14.55 Ha                                                                     |               |                 |              |
| PROJECT TITLE:                                                               |               |                 |              |
| Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project |               |                 |              |
| CLIENT :                                                                     |               |                 |              |
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| CONSULTANT :                                                                 |               |                 |              |
| <div></div>                                                                  |               |                 |              |
| DWG TITLE :                                                                  |               |                 |              |
| DGPS SURVEY LAYOUT MAP OF BECHAMARI BEEL                                     |               |                 |              |
| 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.         |

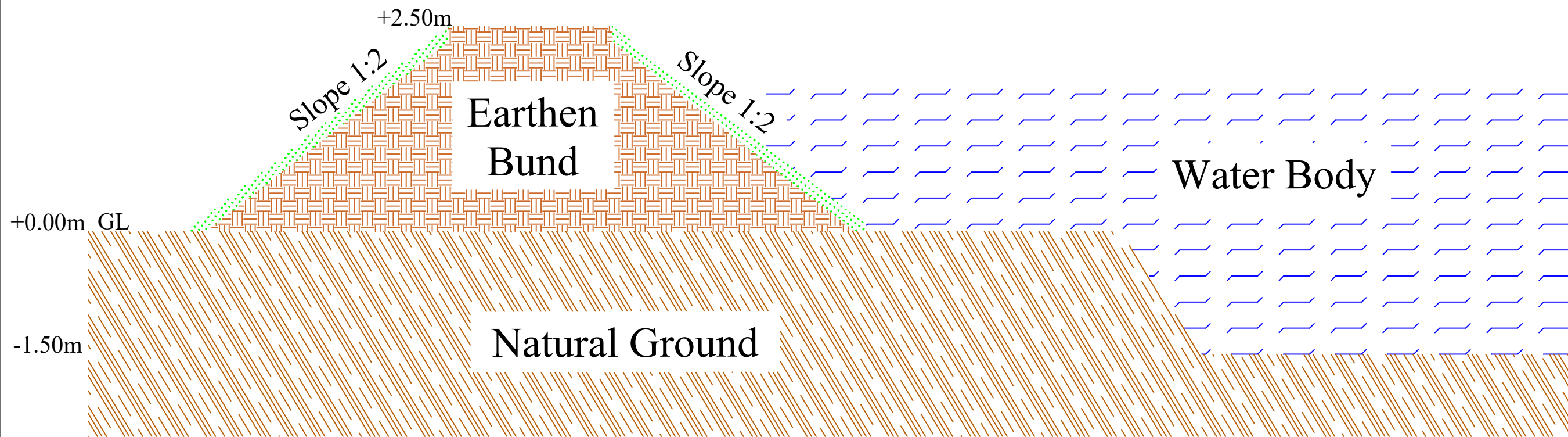
DRONE SURVEY MAP OF BECHAMARI BEEL



|                                                                              |               |                 |              |
|------------------------------------------------------------------------------|---------------|-----------------|--------------|
| PACKAGE NO.:                                                                 |               |                 |              |
| 04                                                                           |               |                 |              |
| NAME OF THE BEEL:                                                            |               |                 |              |
| BECHAMARI BEEL                                                               |               |                 |              |
| DEVELOPMENT BLOCK:                                                           |               |                 |              |
| MAYONG                                                                       |               |                 |              |
| REVENUE VILLAGE:                                                             |               |                 |              |
| JURGAON                                                                      |               |                 |              |
| DISTRICT:                                                                    |               |                 |              |
| MORIGAON                                                                     |               |                 |              |
| AREA (Ha):                                                                   |               |                 |              |
| 14.55 Ha                                                                     |               |                 |              |
| PROJECT TITLE:                                                               |               |                 |              |
| Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project |               |                 |              |
| CLIENT :                                                                     |               |                 |              |
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| CONSULTANT :                                                                 |               |                 |              |
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| DWG TITLE :                                                                  |               |                 |              |
| DRONE SURVEY MAP OF BECHAMARI BEEL                                           |               |                 |              |
| 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  
Rural Infrastructure and Agricultural Service Society

**CONSULTANT :**  
  
Shubh  
Consultants & Technocrats LLP

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

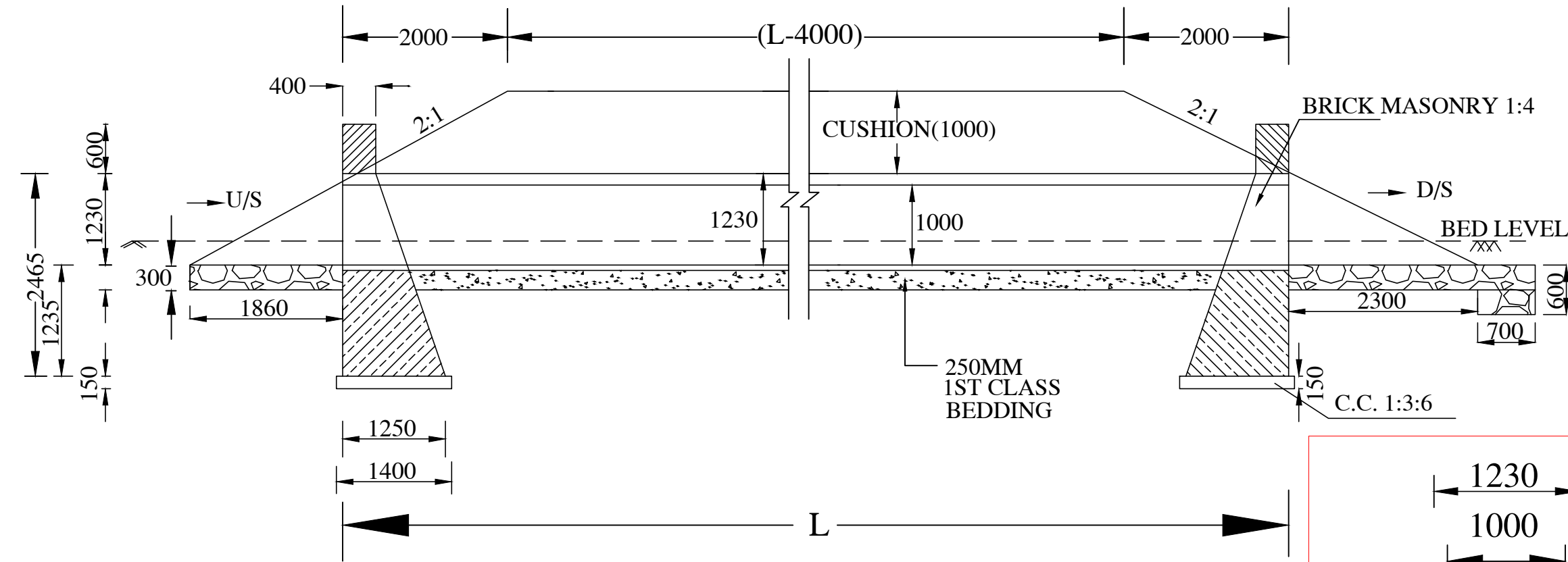
**DATE :**

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

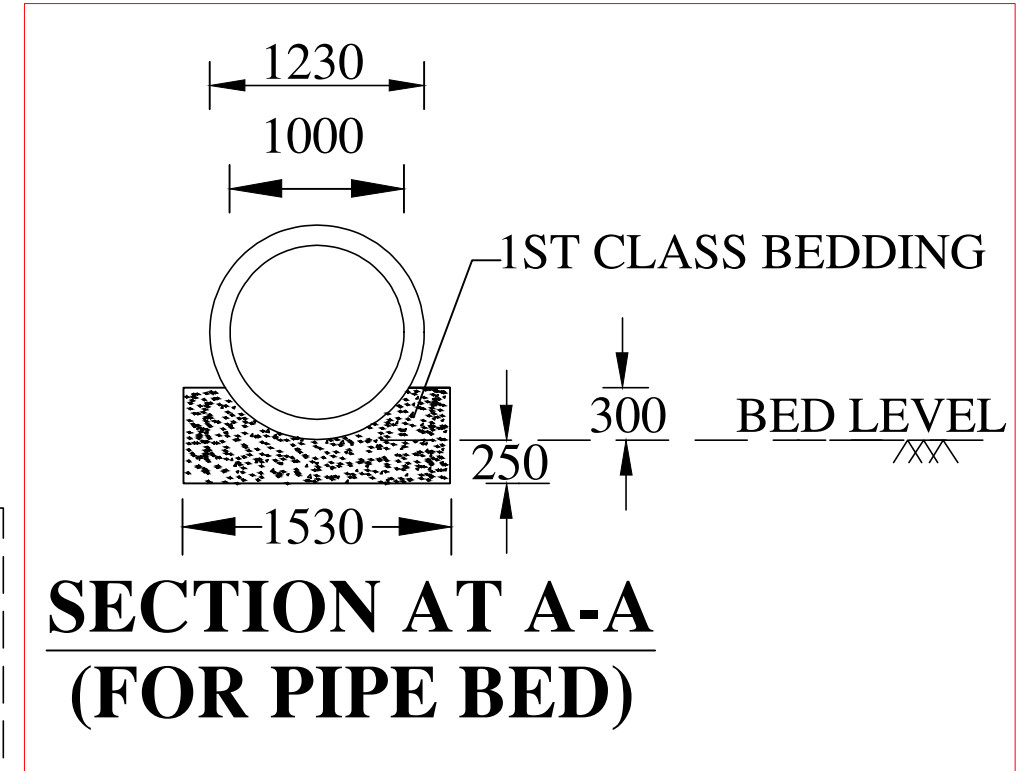
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| <b>DATE :</b> | <b>DATE :</b> | <b>DATE :</b> | <b>DATE :</b> |
|---------------|---------------|---------------|---------------|

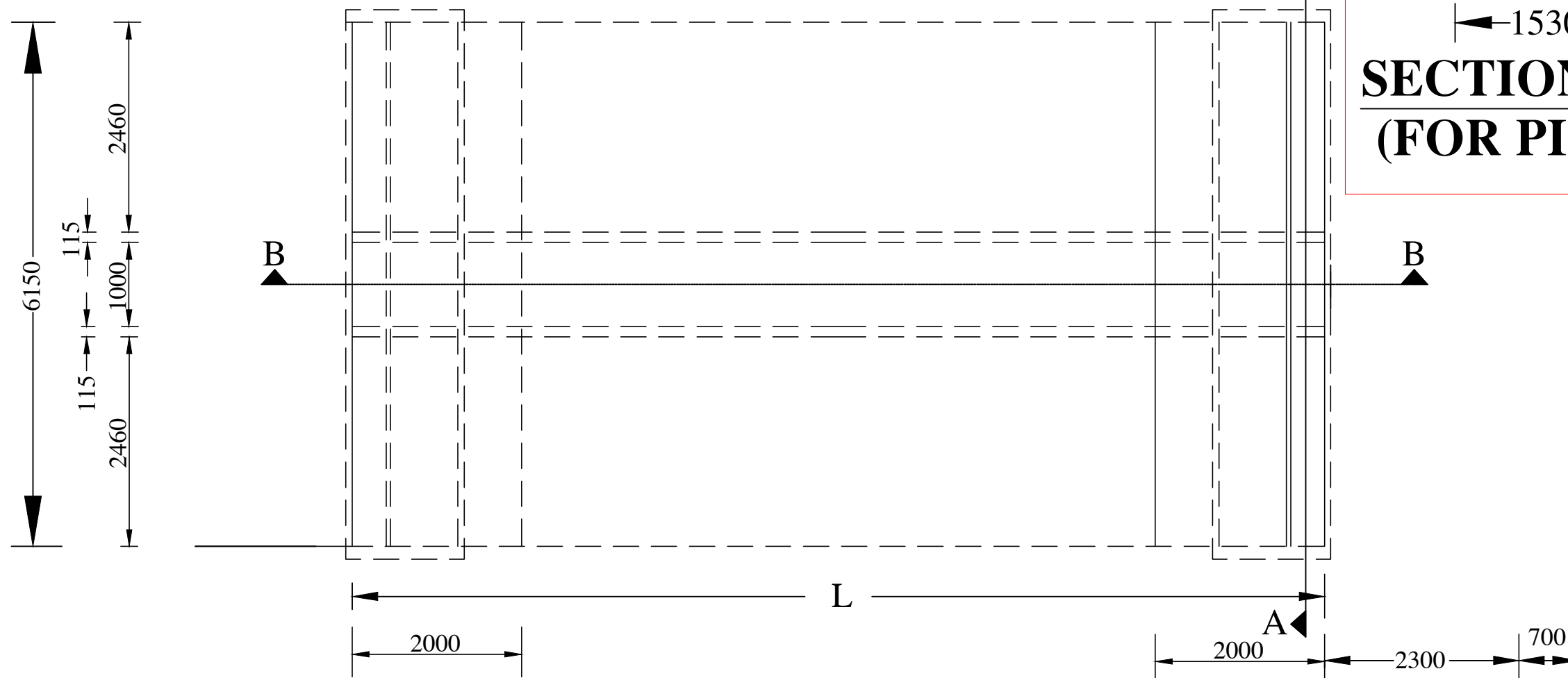
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|-----------|------|------|------|
| TEAM LEAD | A.E. | E.E. | S.E. |
|-----------|------|------|------|



**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  
Rural Infrastructure and Agricultural Service Society

**CONSULTANT :**  
  
Shubh  
Consultants & Technocrats LLP

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

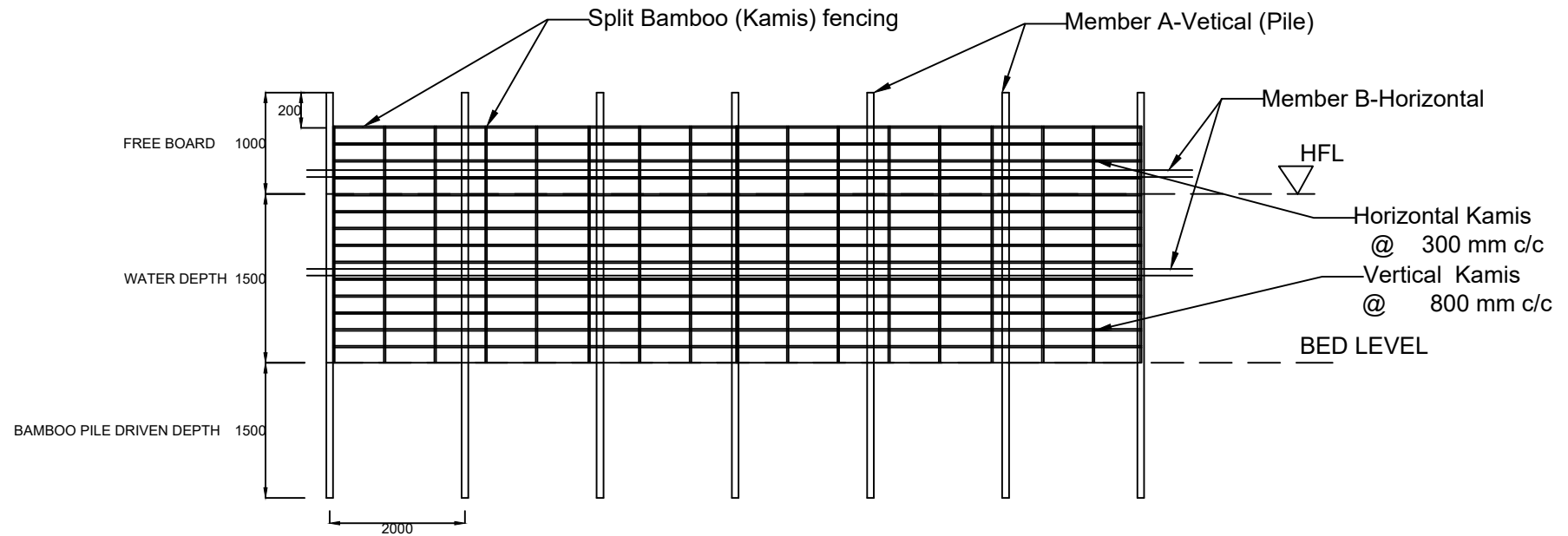
**DATE :**

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

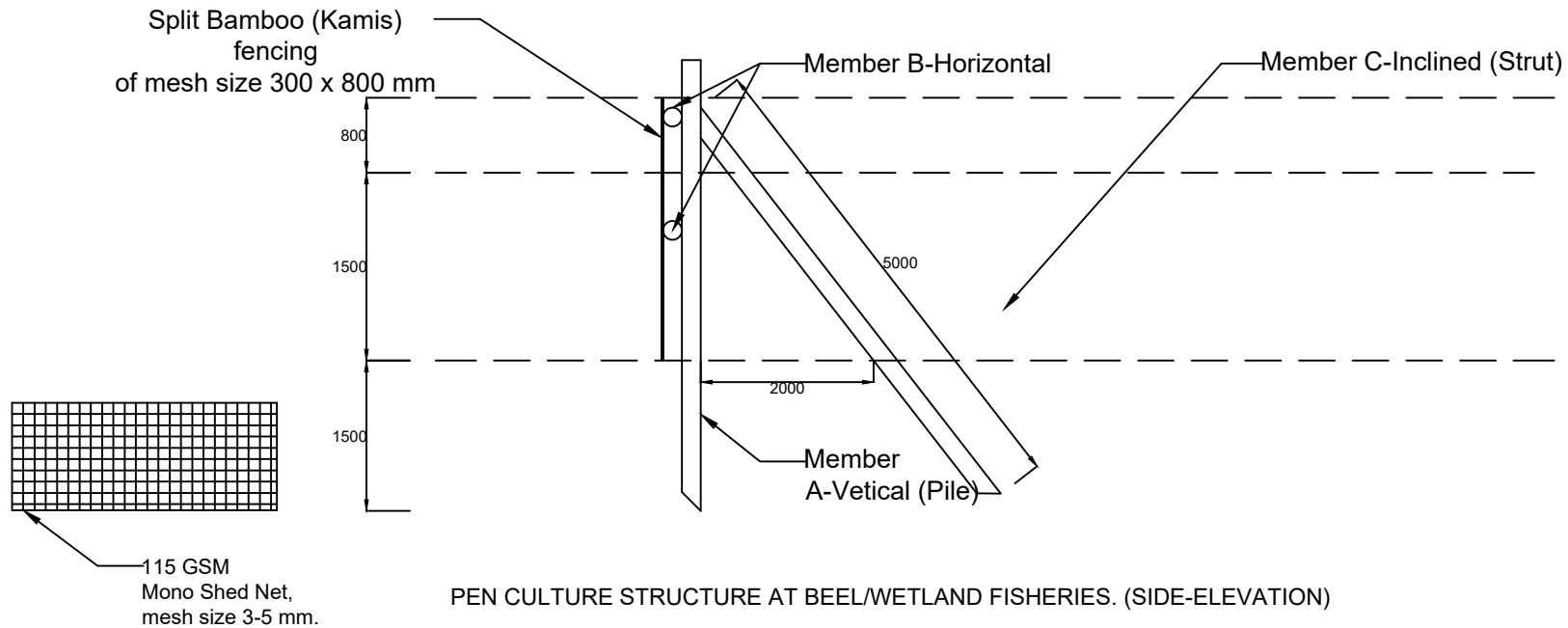
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**DATE :** **DATE :** **DATE :** **DATE :**

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



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



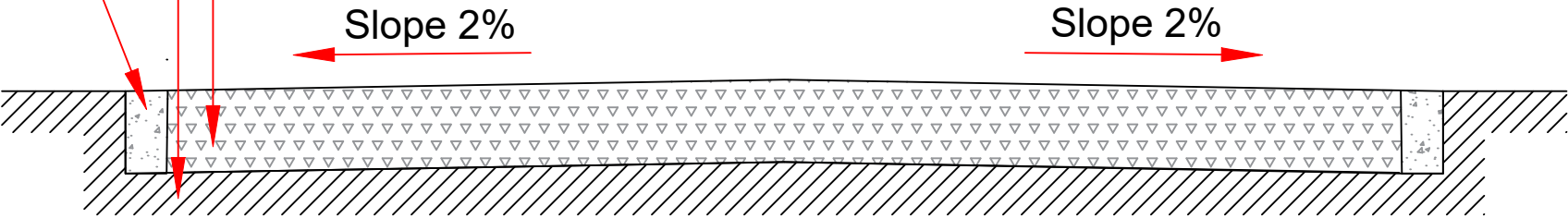
PEN CULTURE STRUCTURE AT BEEL/WETLAND FISHERIES. (SIDE-ELEVATION)

# TYPICAL SECTION OF APPROACH ROAD

GSB of thickness 200 mm  
Well-Compacted Natural Soil

Edge-Restraint Wall

Road Width- 3.1m

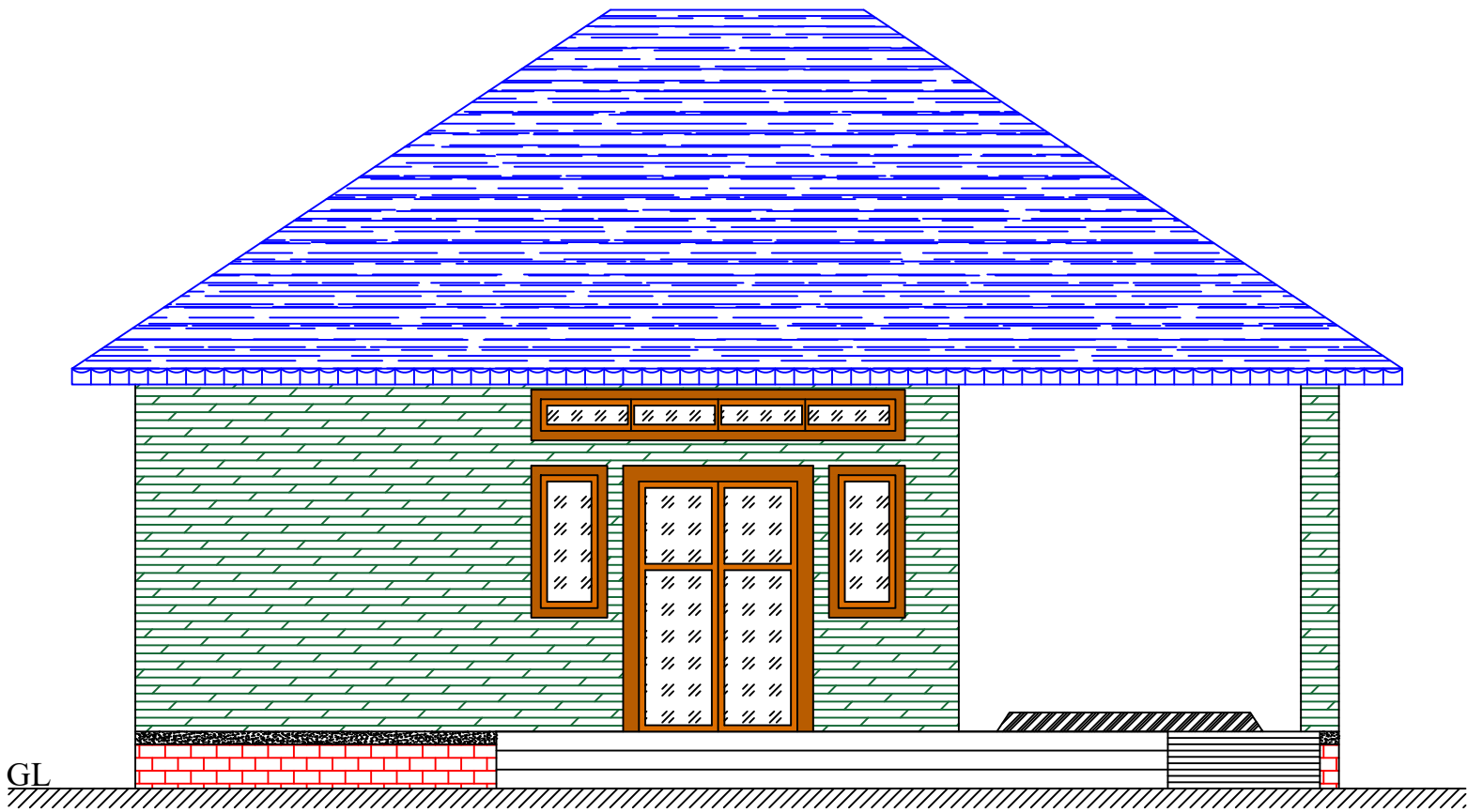


PROJECT TITLE:  
Sustainable Wetlands and Integrated  
Fisheries Transformation (SWIFT) Project

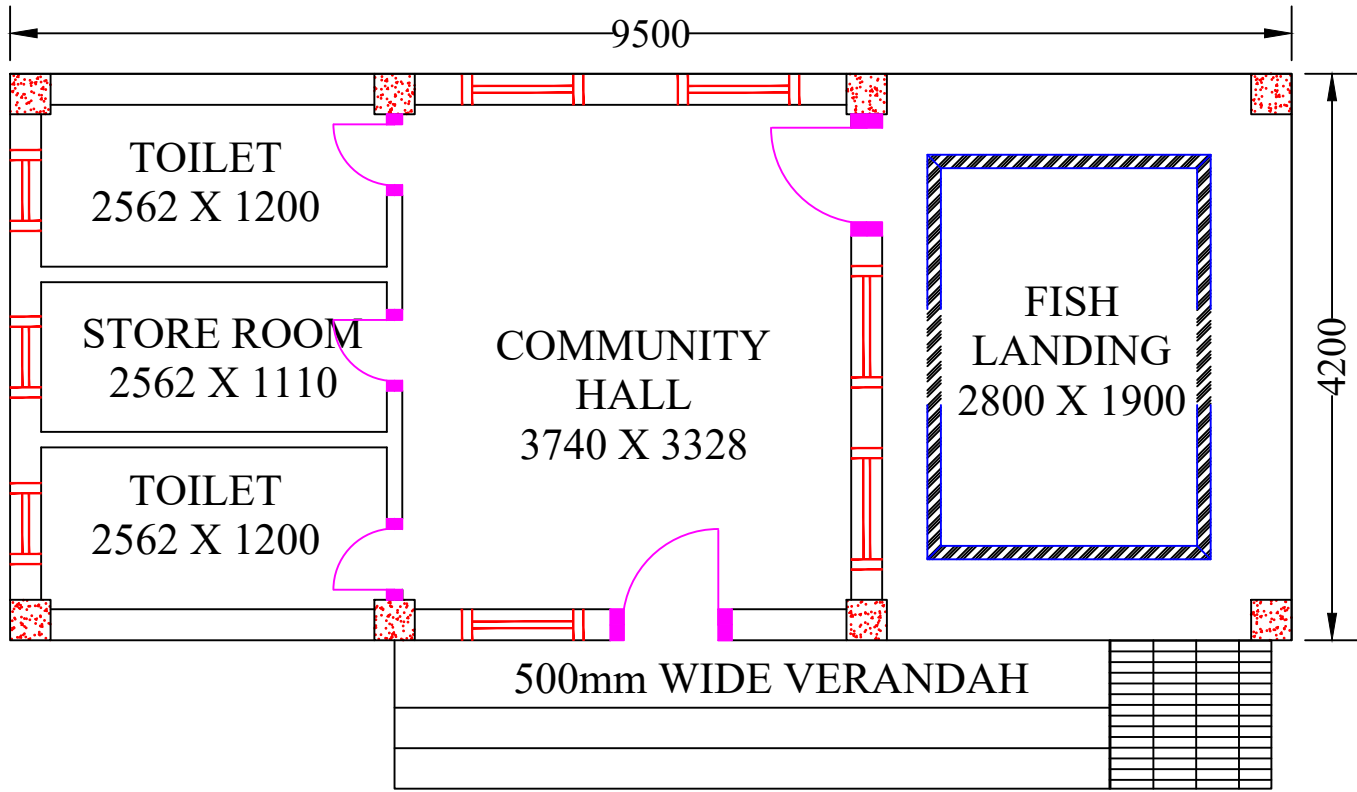


DWG TITLE :  
TYPICAL SECTION OF  
APPROACH ROAD

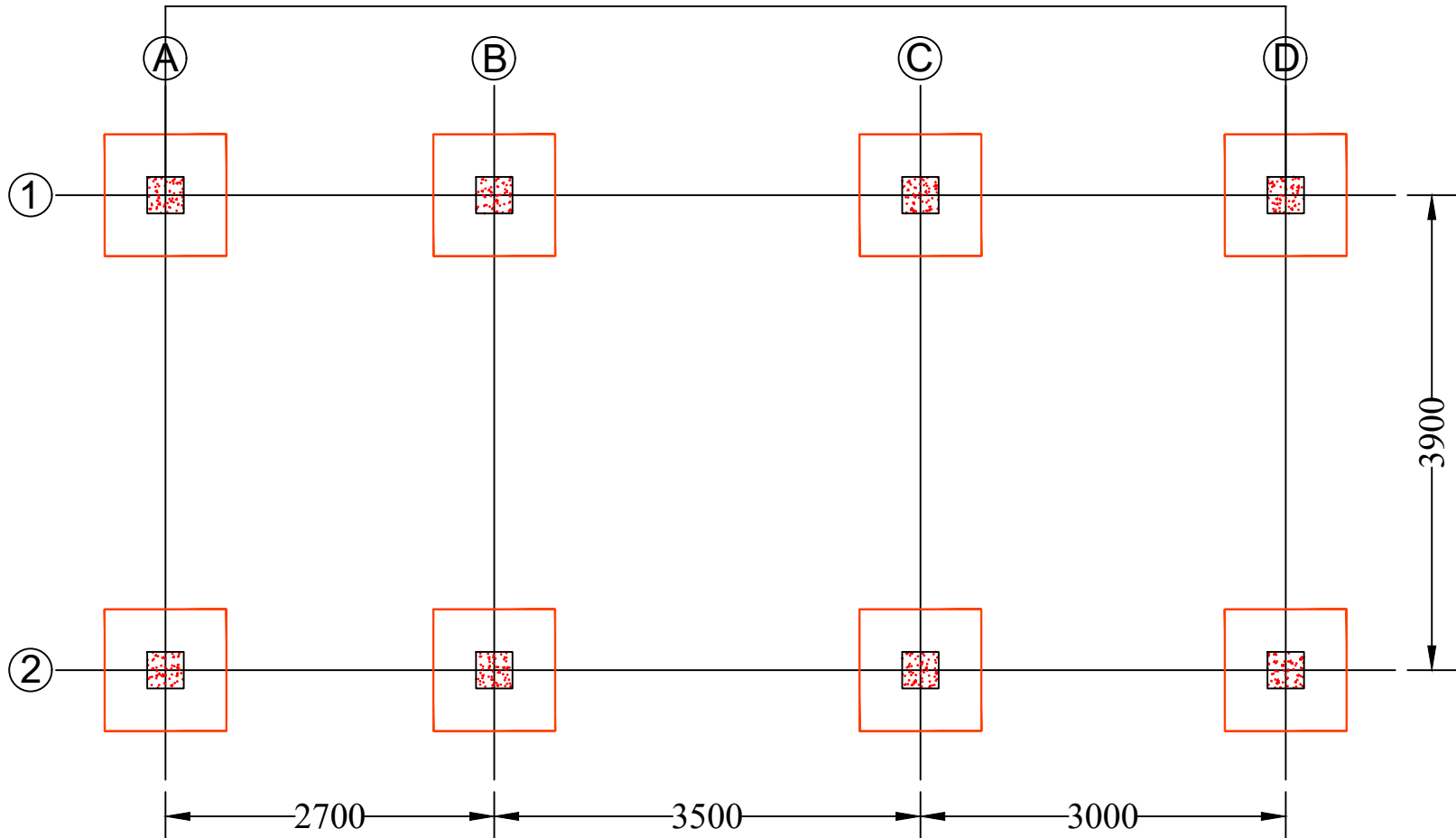
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| DATE :      |               |                 |              |
| CHECKED BY: | SUBMITTED TO: | RECOMMENDED BY: | APPROVED BY: |
|             |               |                 |              |
| DATE :      | DATE :        | DATE :          | DATE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



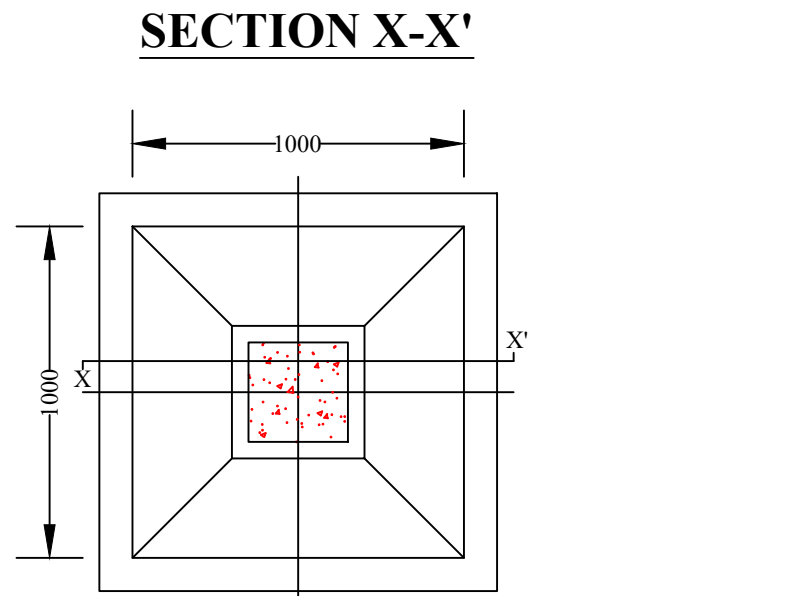
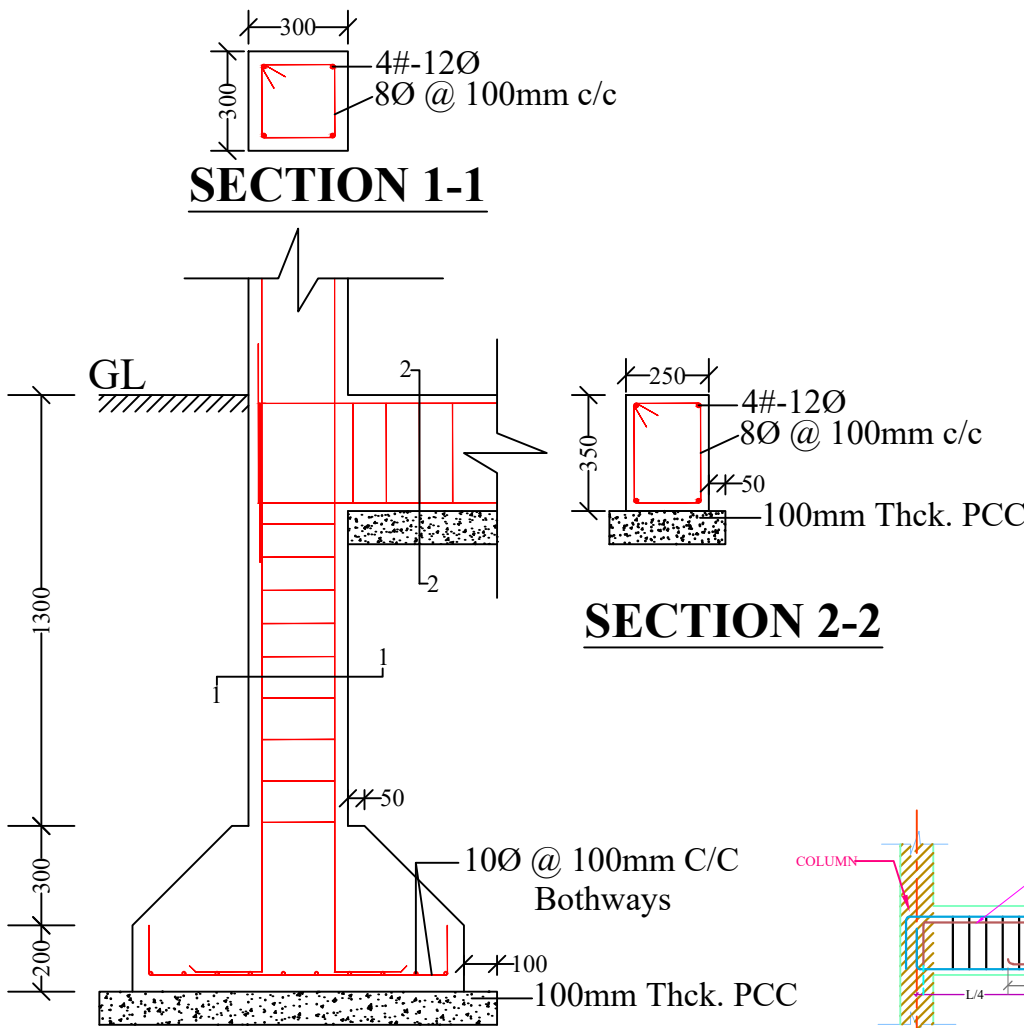
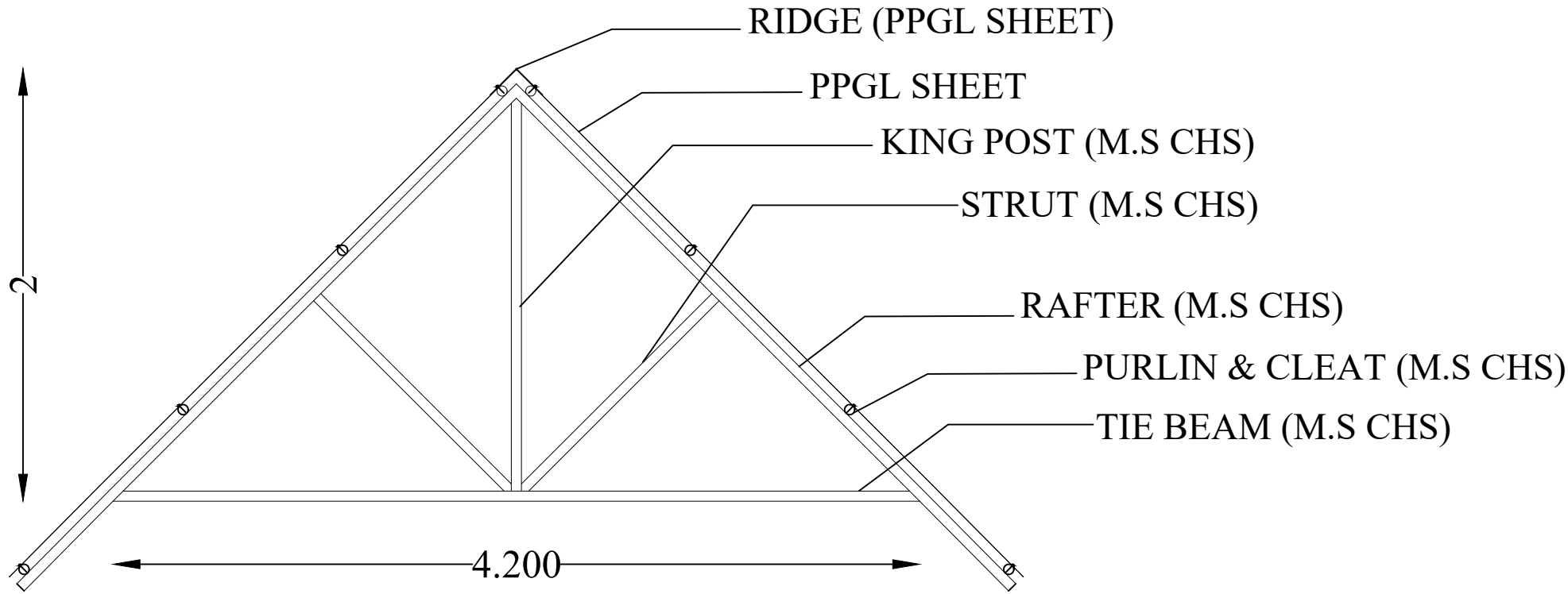
FRONT ELEVATION



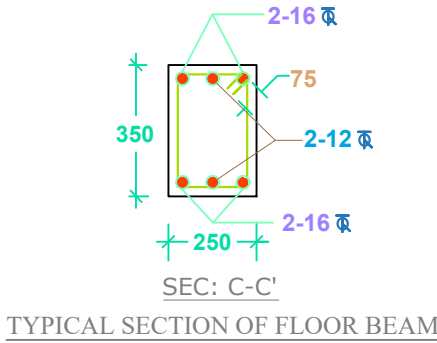
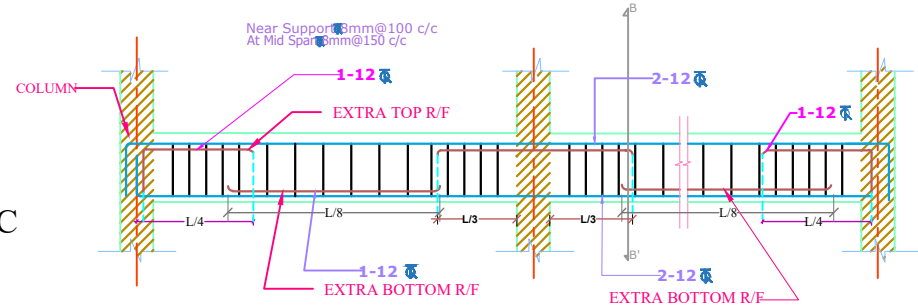
PLAN



FOOTING LAYOUT



FOOTING PLAN



- NOTES :**
- All dimensions are in millimetres.
  - All dimensions are to be read and not to be scaled.
  - Grade of Concrete used : M-20.
  - Grade of Steel Reinf. used : TMT (Grade-500)
  - Clear cover for reinf. bars :
    - In Foundations - 50 mm.
    - In Columns - 40 mm.
    - In Beams - 25 mm.
    - In Slabs - 20 mm.
  - Not more than one third of the total number of main bars shall be over-lapped at any section of a column.
  - Laps, anchorage of reinf. bars shall be as per I.S.456-2000.
  - Maximum size of Coarse Aggregate shall be 20 mm and down graded.
  - Aggregate shall comply with the requirements of I.S.:383-1970.
  - Lap / Development length =  $50 \times 'd'$  where, 'd' = diameter of reinforcing bar.
  - In addition to Lintels, R.C.C. band at sill level should also be provided.
  - Use R.C.C. bands also in all vertical sides of openings.
  - Protruding rods to be provided in columns for embedding all brick walls.
  - Joints between walls & beams may be embedded with epoxy based joint filling compounds.
  - All Reinforcement detailing should meet all the general requirements of IS:4326 and IS:13920.
  - 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 :

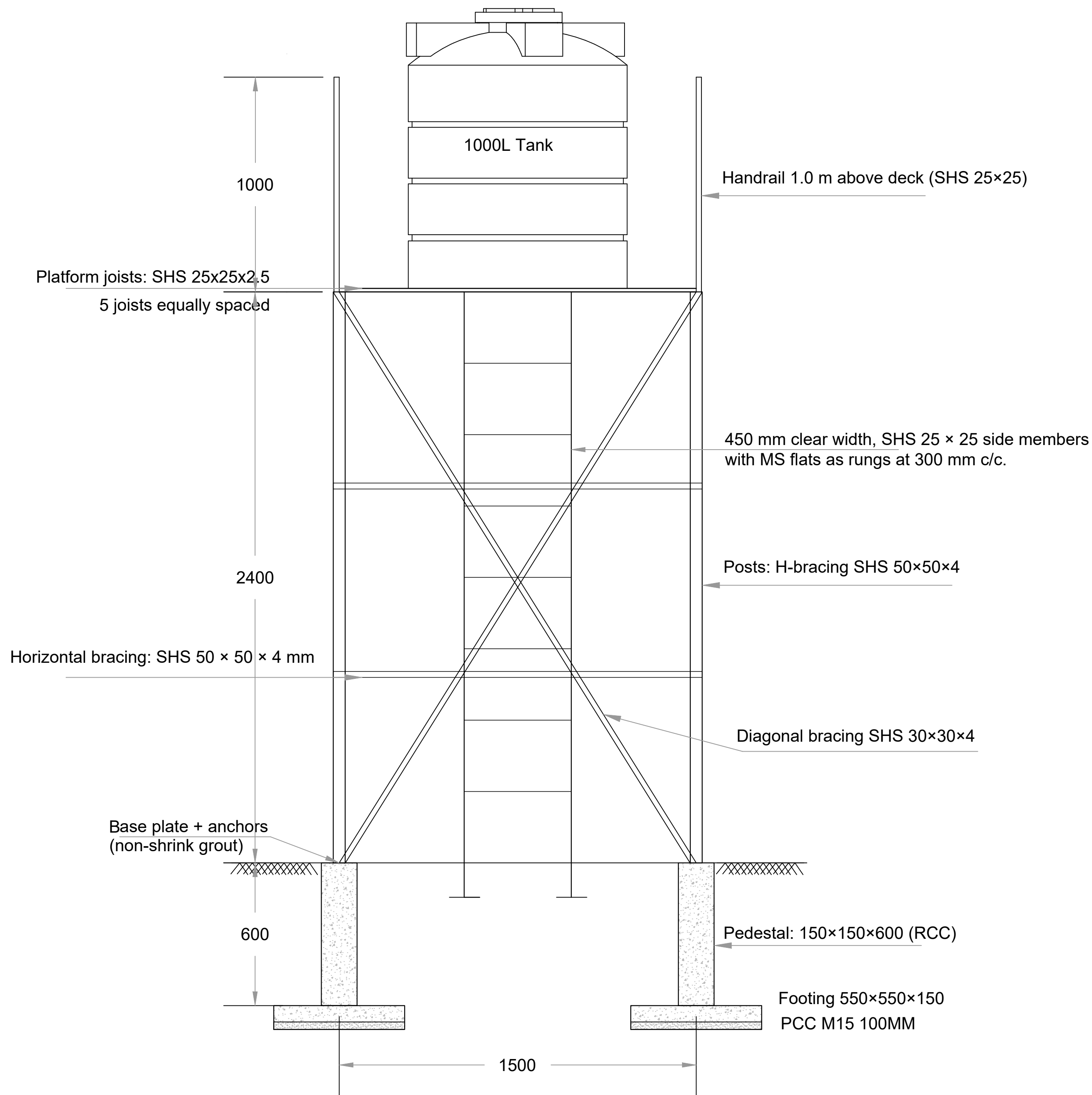
DATE :

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:

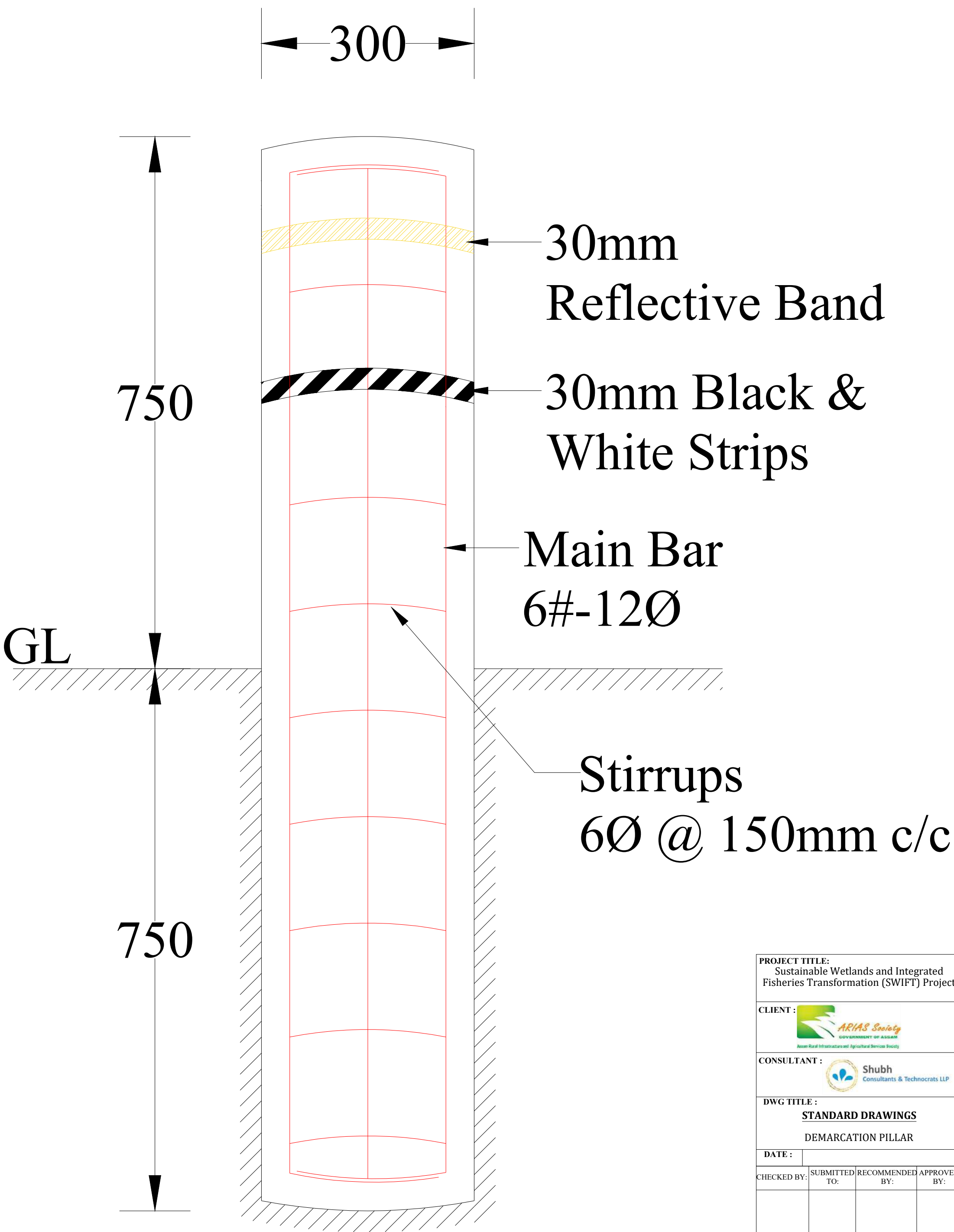
TEAM LEAD

A.E.

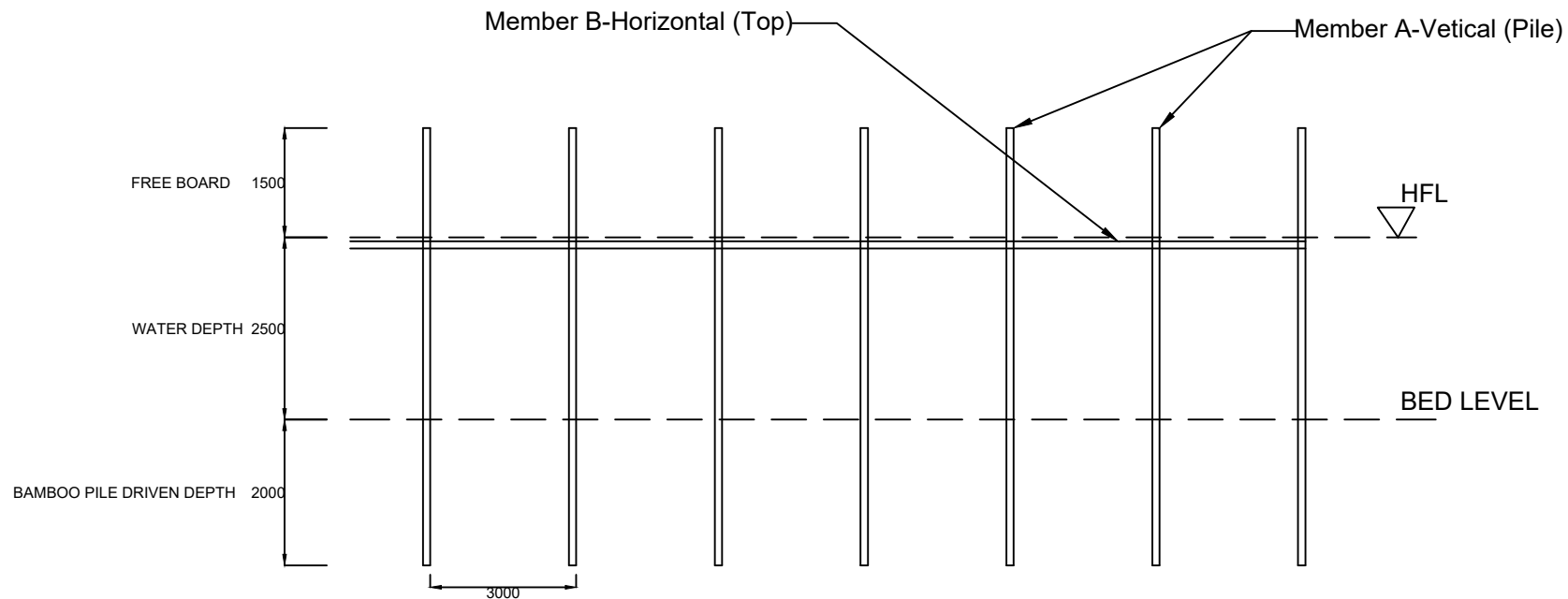
E.E.

S.E.

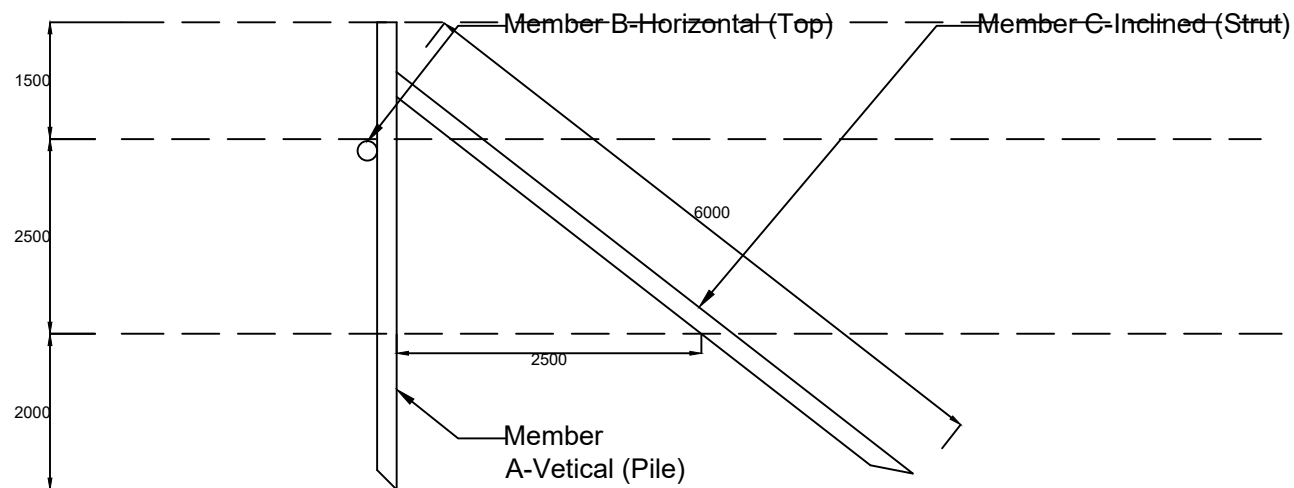
### GENERAL ARRANGEMENT DRAWING FOR 1000L TANK WITH STAGING



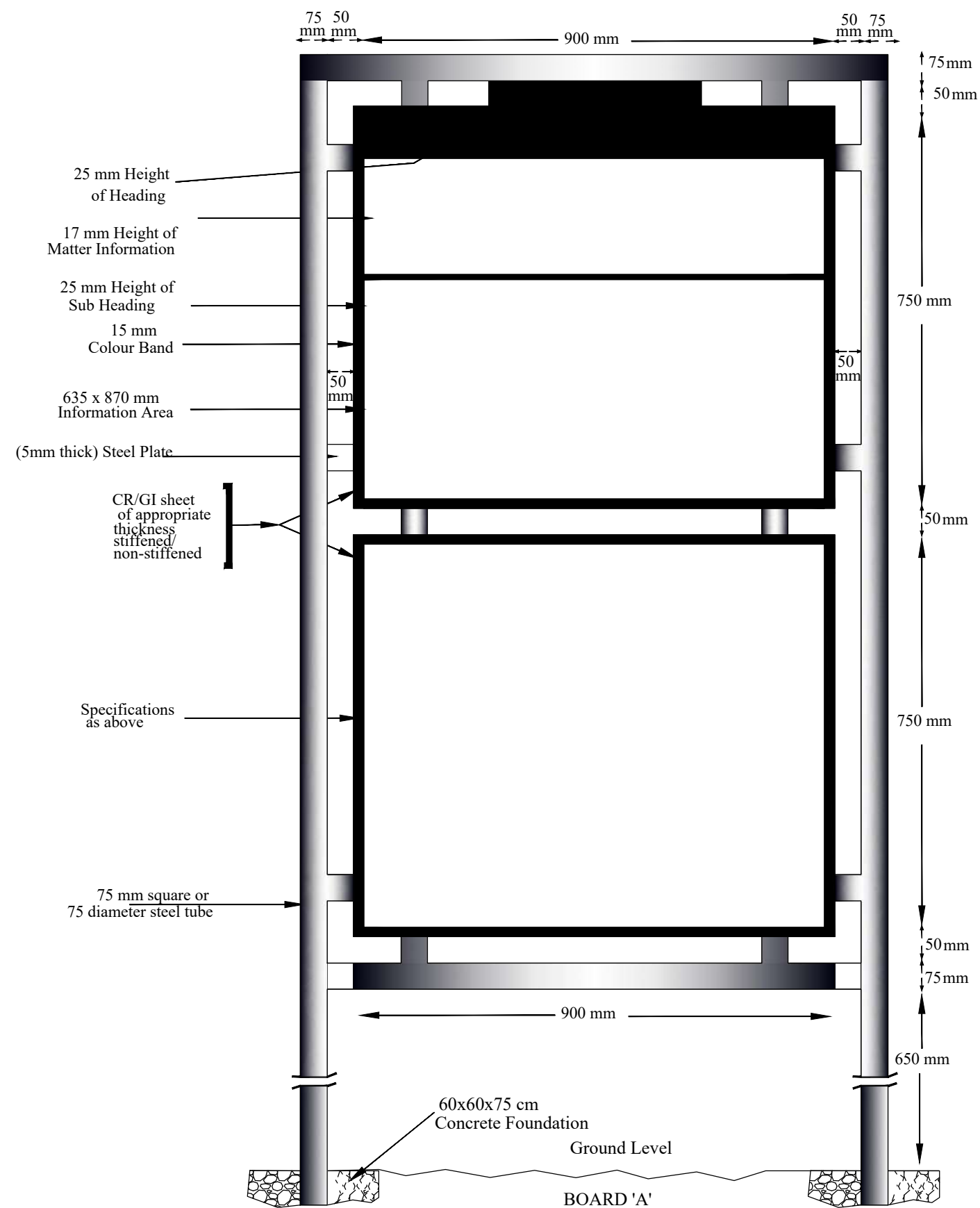
|                                                                                                                                                                                                           |               |                 |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|--------------|
| PROJECT TITLE:<br>Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project                                                                                                            |               |                 |              |
| CLIENT :<br><br>ARIAS Society<br>GOVERNMENT OF ASSAM<br>Assam Rural Infrastructure and Agricultural Services Society |               |                 |              |
| CONSULTANT :<br> Shubh<br>Consultants & Technocrats LLP                                                              |               |                 |              |
| DWG TITLE :<br><b>STANDARD DRAWINGS</b><br>DEMARICATION 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)



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