

# **GOVERNMENT OF ASSAM**

## **Name of Work:**

**Khoribari Borbilla Beel in Bongaigaon District : Conservation, Restoration  
and Rejuvenation under Assam SWIFT Project.**

**GROUP - 07**

**VOLUME II - DRAWINGS**

**ARIAS Society**

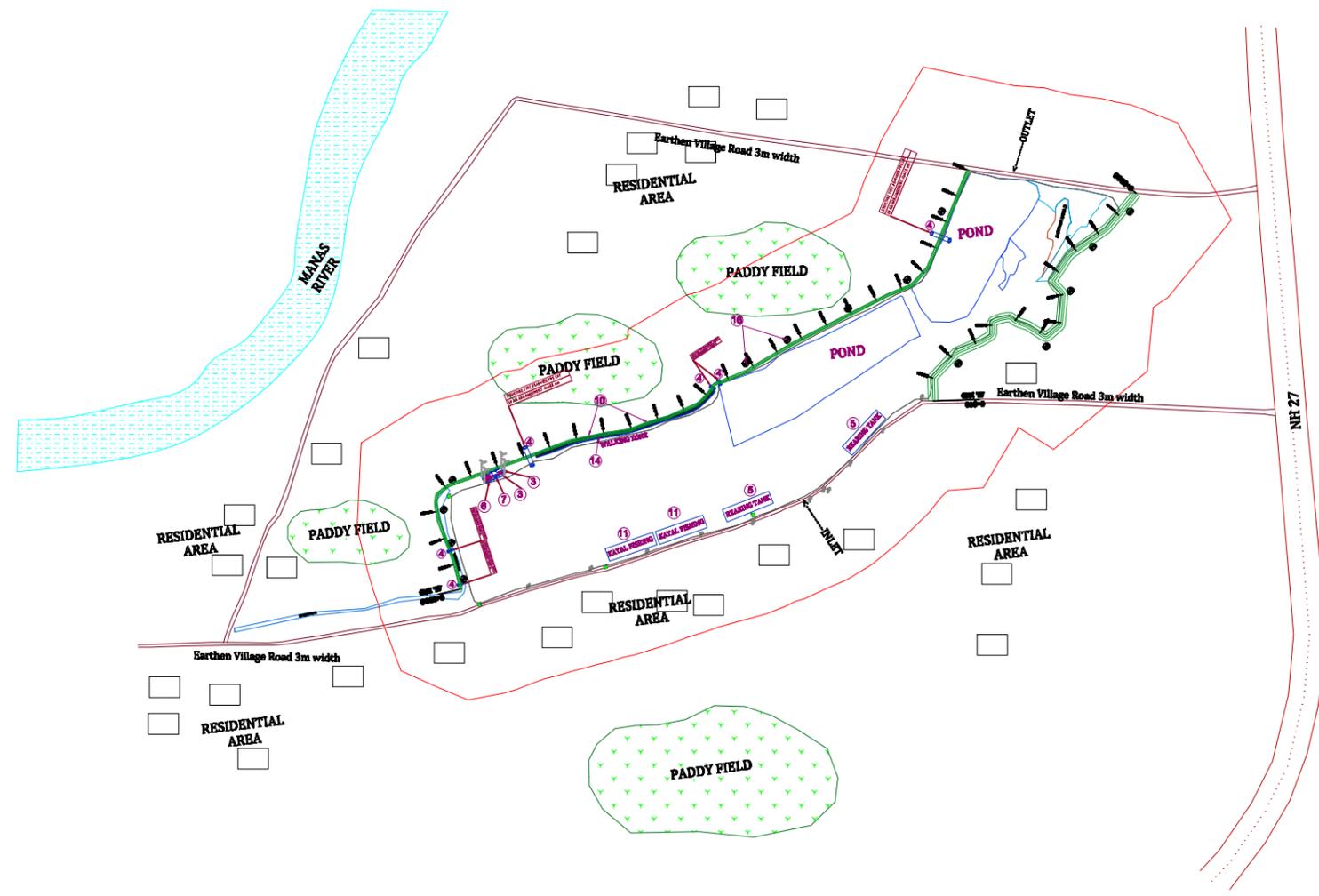
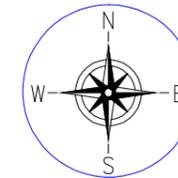
**GOVERNMENT OF ASSAM**

**Assam Rural Infrastructure Agricultural Service Society**

<b>SL. NO.</b>	<b>TITLE</b>	<b>DRG. NO.</b>
<b>GENERAL</b>		
<b>ENGINEERING SURVEY &amp; MAPS</b>		
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
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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
22	GHAT OR STEPS	ASSAM/SWIFT/GR-08/SD/14

# ENGINEERING SURVEY & MAPS

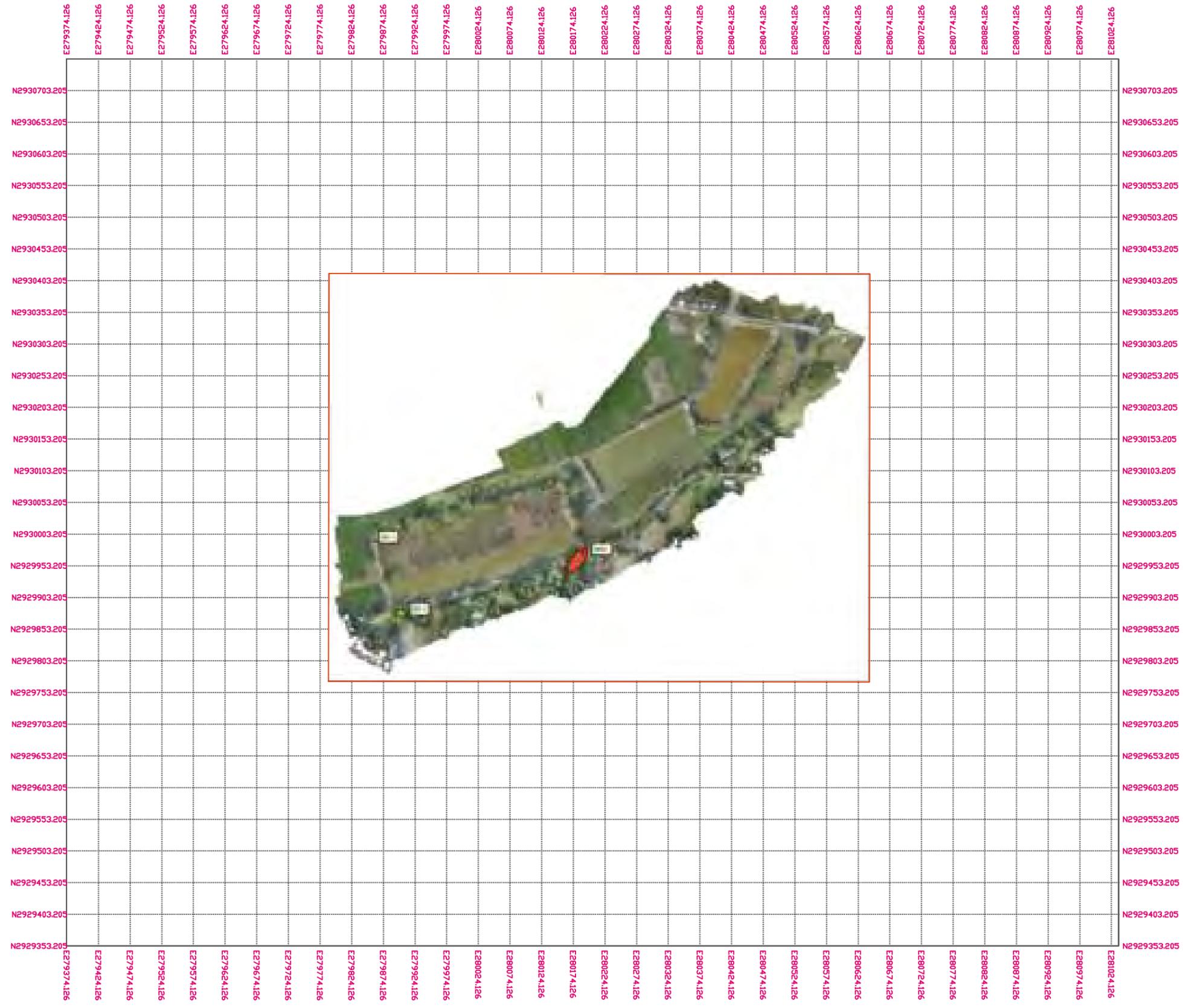
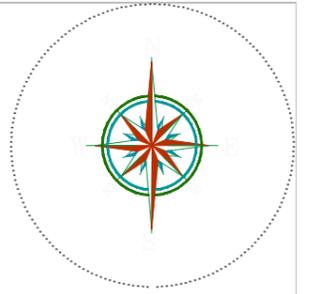




LEGEND :-	
PROPOSED HP CULVERT	
PROPOSED 600MM DIA PIPE	
PROPOSED STRUCTURE	
PROPOSED APPROACH ROAD	
PROPOSED SOLAR LAMP	
PROPOSED PERIPHERAL BUNDH	
PROP. DEMARCATION PILLAR	
PROP. PIPE LAY (1 x 600 D)	

LEGEND TYPE:- EXISTING	
TBM	
EXISTING BRIDGE	
BEEL BOUNDARY	
EXISTING STRUCTURE	
EXISTING ELECTRIC POLE	
POND	
EXISTING CHANNEL	
EXT. EARTHEN ROAD	
EXISTING BT ROAD	
EXISTING CC ROAD	
PADDY FIELD / JUNGLE	

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	<b>SCALE :- 1:1000</b>	<b>DISTRICT:</b> <b>BONGAIGAON</b>				<b>DRAWING NO :-</b> <b>ASSAM/SWIFT/GR-07/PLAN/02</b>	<b>CHECKED BY:</b>  	<b>SUBMITTED TO:</b>  	<b>RECOMMENDED BY:</b>  	<b>APPROVED BY:</b>  	<b>DATE:</b> 	<b>DATE:</b> 	<b>DATE:</b> 
						<b>TEAM LEAD</b>	<b>A.E.</b>	<b>E.E.</b>	<b>S.E.</b>				



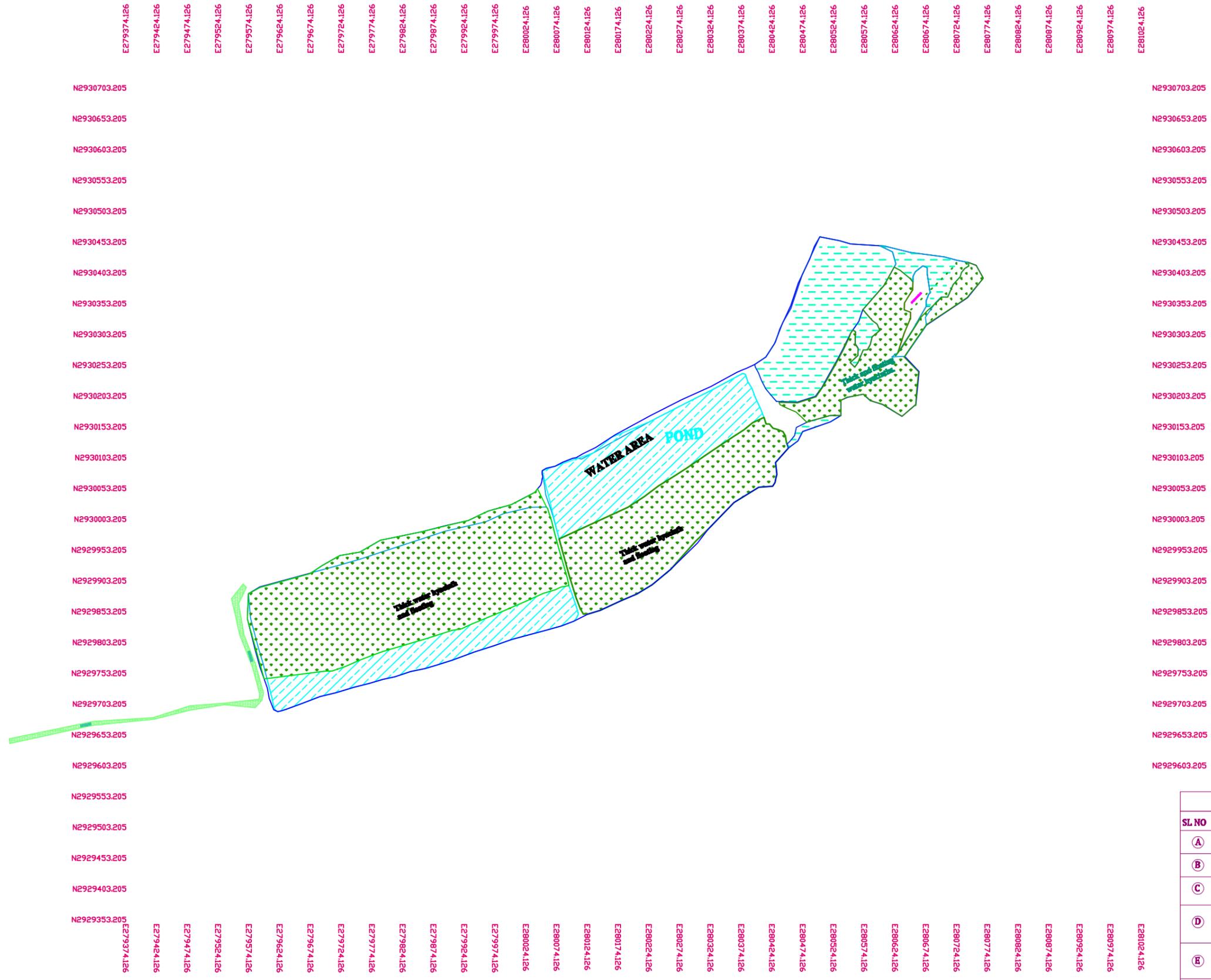
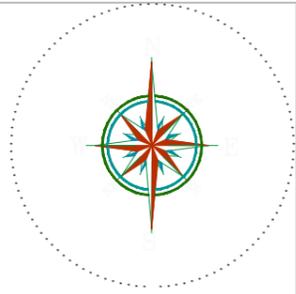
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 Regd. Office Address  
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**Name of Work:-**  
**Khoribari Borbilla in Bongaigaon District: Conservation, Restoration and Rejuvenation under Assam SWIFT Project.**

**SCALE :- 1:1000**  
**PACKAGE NO: 7**

**DRAWING :-**  
**DRONE MAP**  
**DRAWING NO :-**  
**ASSAM/SWIFT/GR-07/PLAN/03**

**ARIAS Society**  
**GOVERNMENT OF ASSAM**  
**Assam Rural Infrastructure**  
**Agricultural Service Society**



LEGEND :-	
Thin and floating water etc	
CLEAR WATER AREA	

TOTAL AREA= 55127.79 Sqm

AREA DETAILS		
SL NO	DESCRIPTION	AREA( Sq. m)
(A)	Thin and floating water hyacinths and other aquatic weeds etc.	55127.79 SQ M
(B)	Thick and floating water hyacinths and other aquatic weeds etc.	0.00 SQ M
(C)	Thick and floating Taraxias,Delanias, Pitanias and other marginal aquatic weeds etc. upto a depth of 50 cm.	0.00 SQ M
(D)	Medium and floating Taraxias,Delanias, Pitanias and other marginal aquatic weeds etc. upto a depth of 50 cm to 80 cm	0.00 SQ M
(E)	Heavy and floating Taraxias,Delanias, Pitanias and other marginal aquatic weeds etc. upto a depth of 80 cm to 120 cm	0.00 SQ M
(F)	CLEAR WATER AREA	44072.21 SQ M

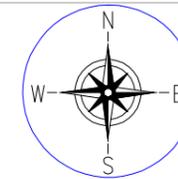
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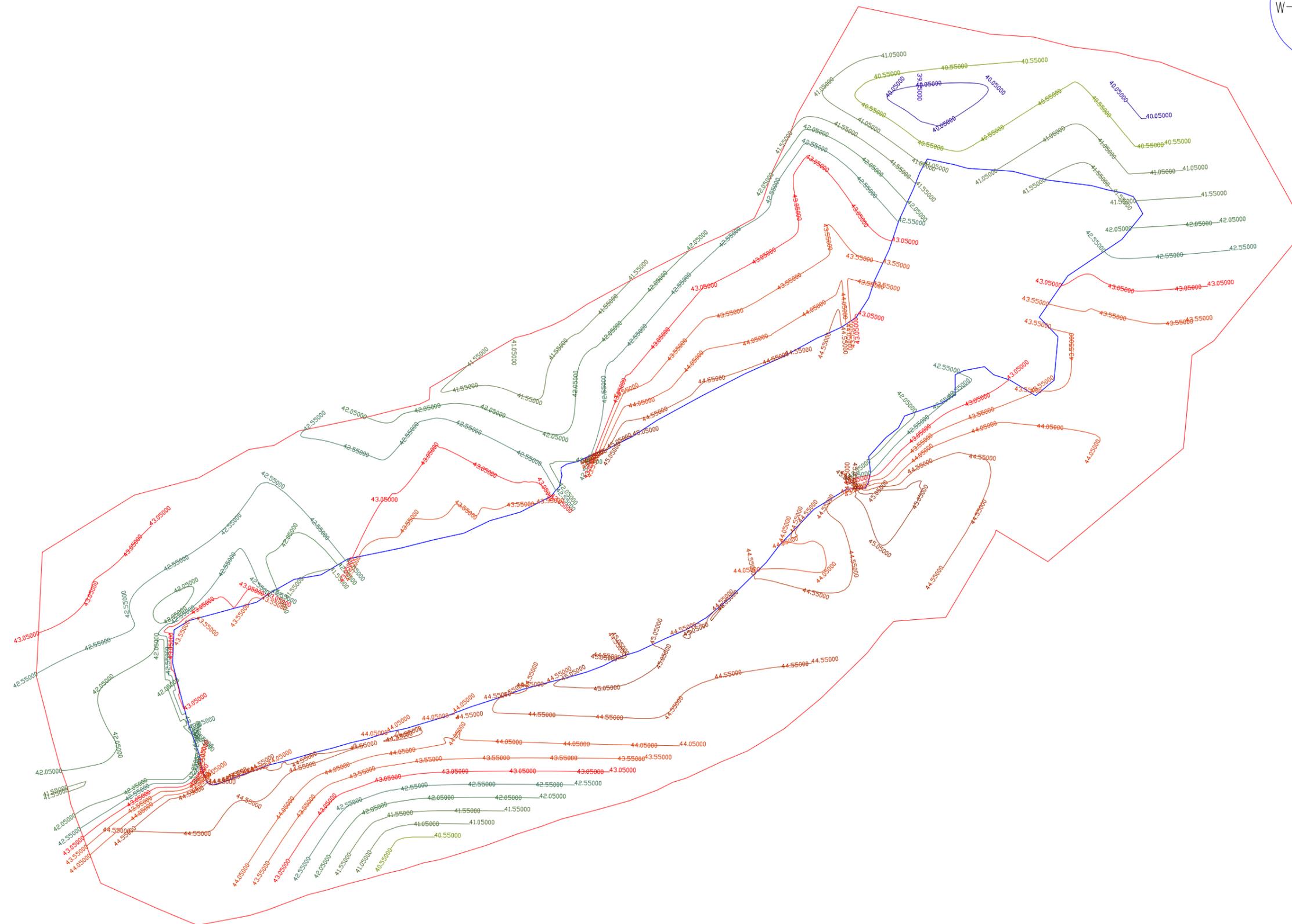
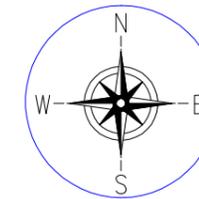
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**DRAWING : DE WEEDING MAP**  
**DRAWING NO :- ASSAM/SWIFT/GR-07/PLAN/04**

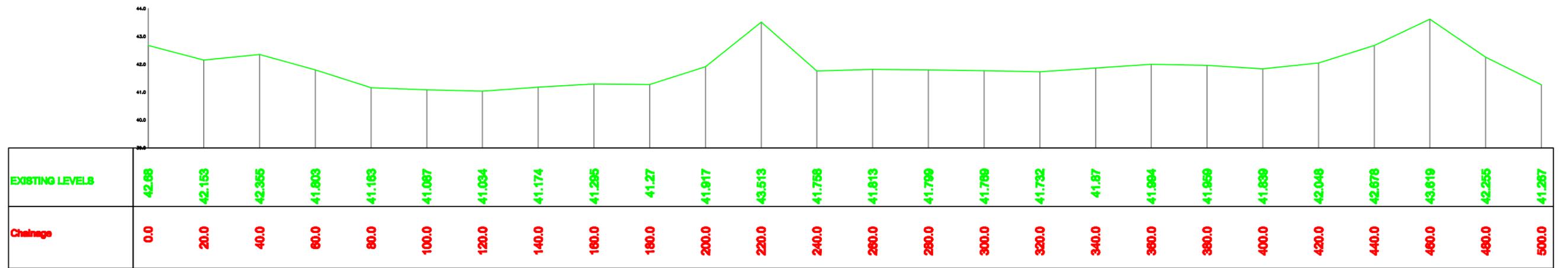
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	<b>SCALE :- 1:1000</b>	<b>DISTRICT:</b> <b>BONGAIGAON</b>		<b>DRAWING NO :-</b> <b>ASSAM/SWIFT/GR-07/PLAN/05</b>		<b>DATE:</b> <b>TEAM LEAD</b>	<b>DATE:</b> <b>A.E.</b>	<b>DATE:</b> <b>E.E.</b>	<b>DATE:</b> <b>S.E.</b>



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	<b>SCALE :- 1:1000</b>	<b>DISTRICT:</b> <b>BONGAIGAON</b>				<b>CHECKED BY:</b> 	<b>SUBMITTED TO:</b>	<b>RECOMMENDED BY:</b>	<b>APPROVED BY:</b>



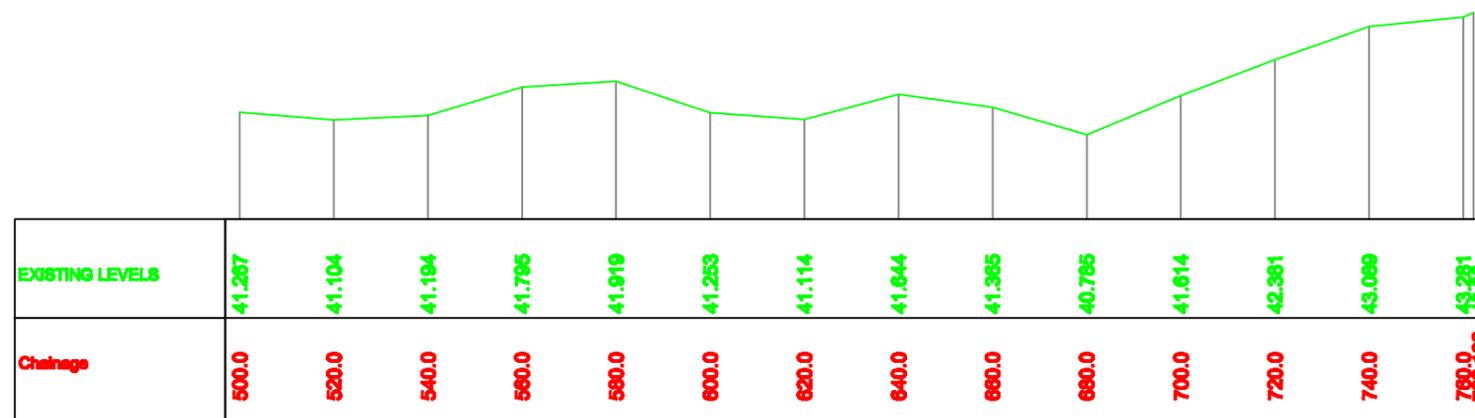
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**Name of Work:-**  
**Khoribari Borbilla in Bongaigaon District: Conservation,**  
**Restoration and Rejuvenation under Assam SWIFT Project.**

**PACKAGE NO: 7**

**DRAWING :**  
 LONGITUDINAL PROFILE OF BEEL  
 DRAWING NO  
 ASSAM/SWIFT/GR-07/PLAN/07(A)

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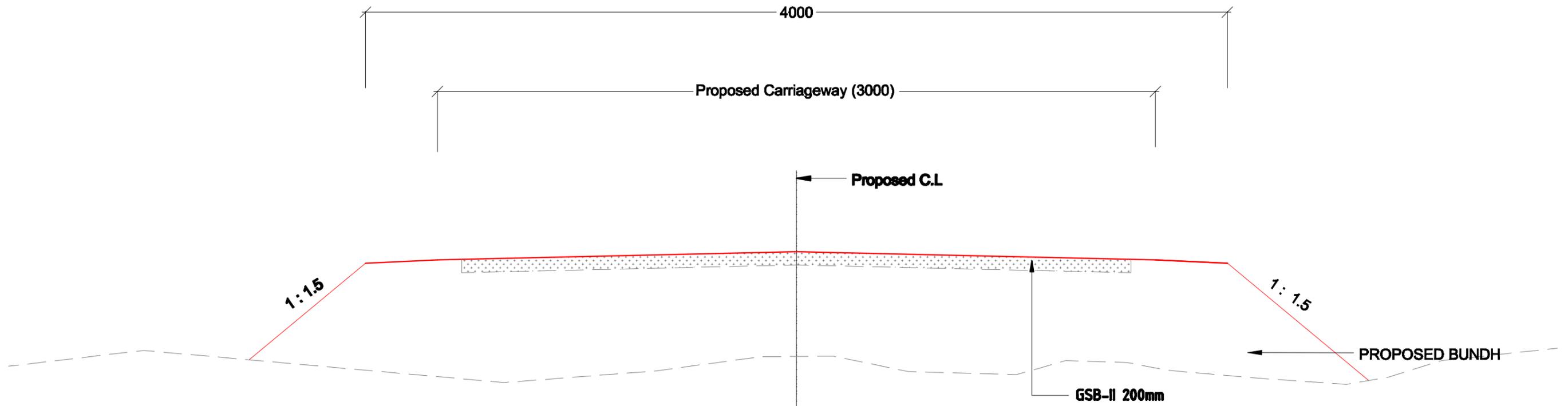
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 LONGITUDINAL PROFILE OF BEEL  
 DRAWING NO  
 ASSAM/SWIFT/GR-07/PLAN/07(B)

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# STANDARD DRAWINGS

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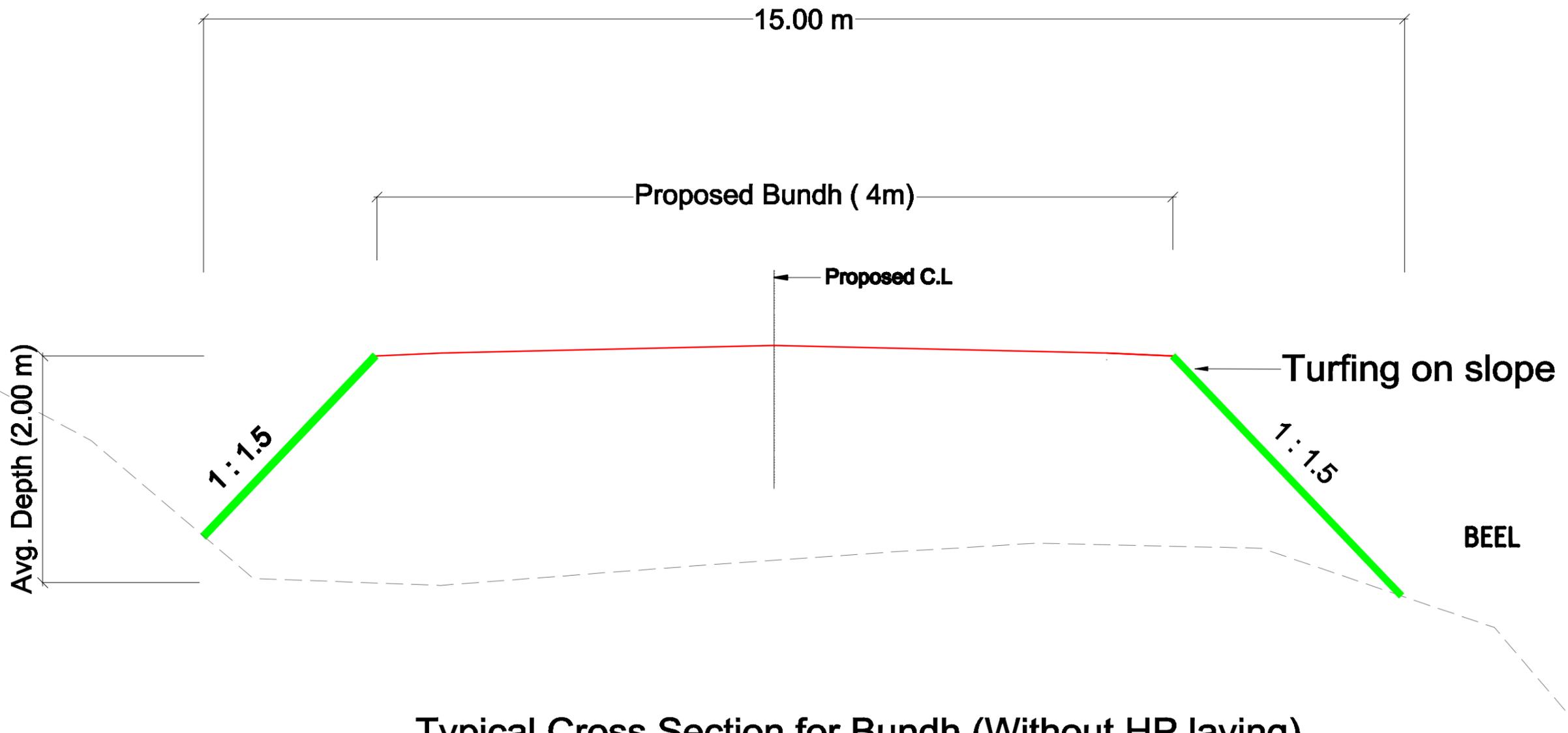


## TYPICAL CROSS SECTION FOR ROAD CUM BUNDH

**Drawing Title:**

**Typical Cross Section**

**Scale - NOT TO SCALE**



Typical Cross Section for Bundh (Without HP laying)

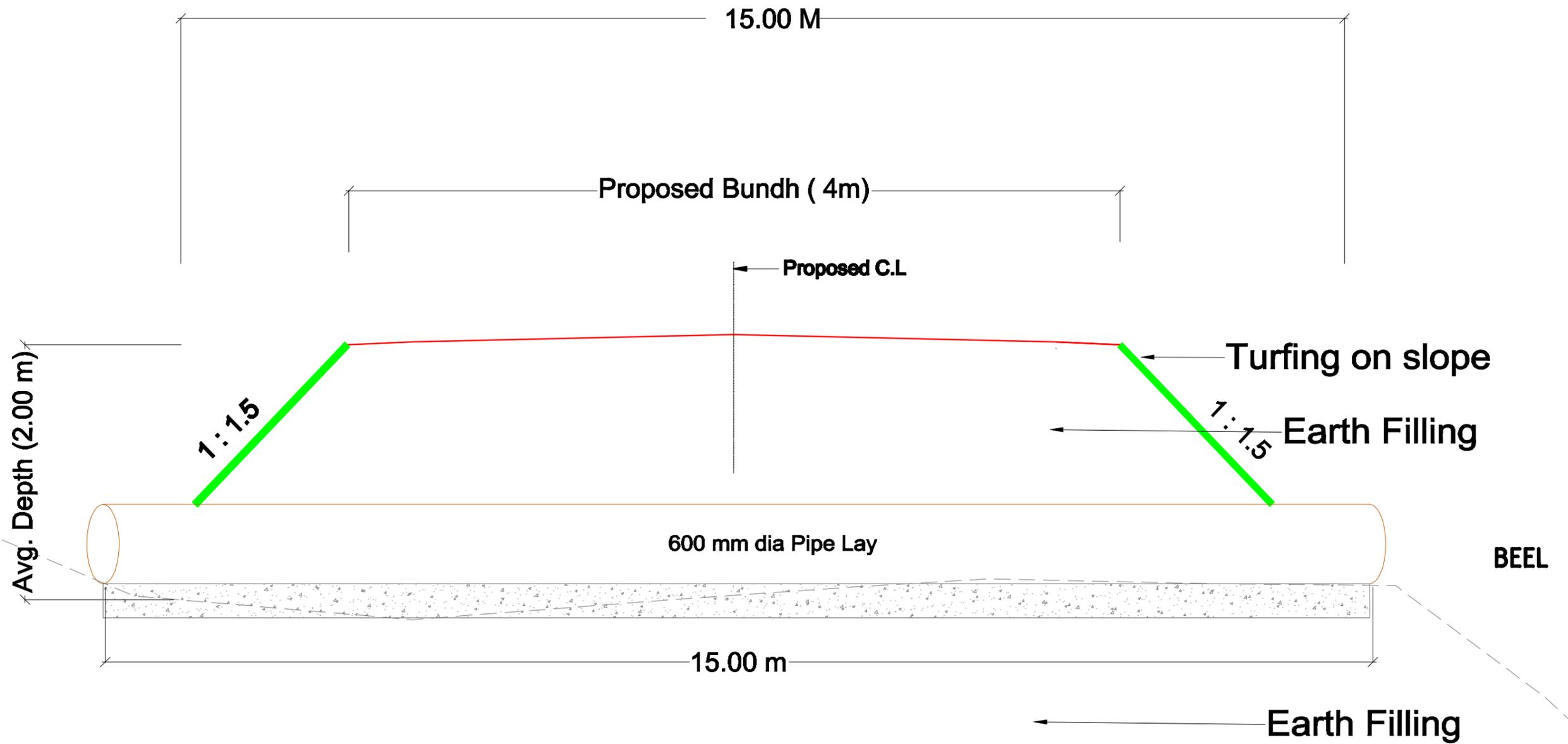
Prepared by  
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**Name of Work:-**  
**Khoribari Borbilla in Bongaigaon District : Conservation, Restoration and Rejuvenation under Assam SWIFT Project.**

SCALE :- 1:1000  
 PACKAGE NO: 8

**DRAWING :**  
 TYPICAL SECTION OF BUND  
 (Without HP Laying)  
 DRAWING NO  
 ASSAM/SWIFT/GR-07/SD/02(A)

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Typical Cross Section for Bundh (With HP laying)

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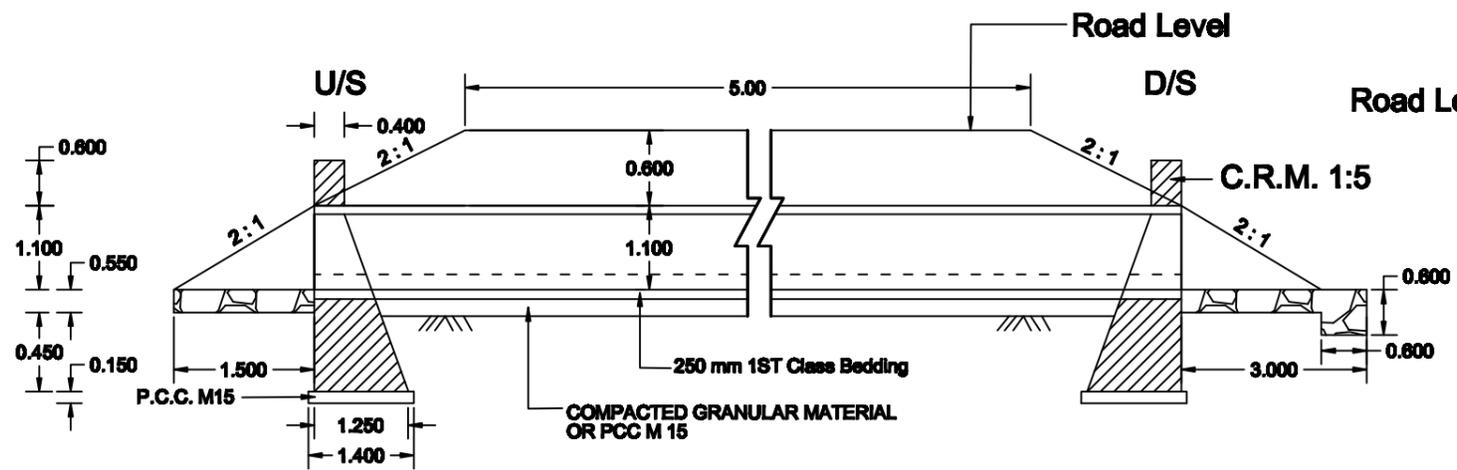
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TYPICAL SECTION OF BUND  
 (With HP Laying)

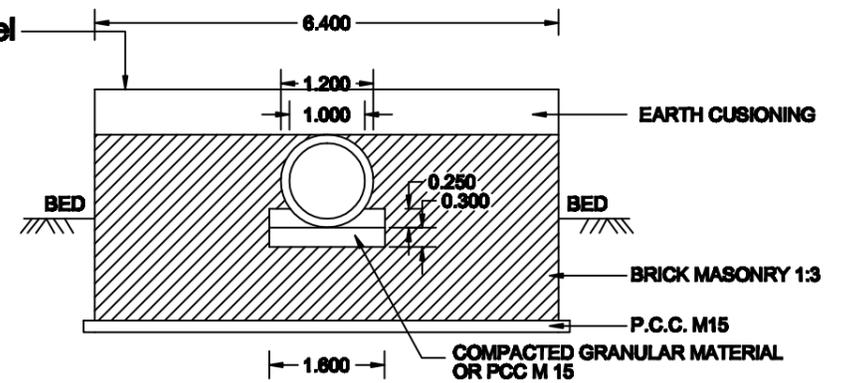
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ASSAM/SWIFT/GR-07/SD/02(B)

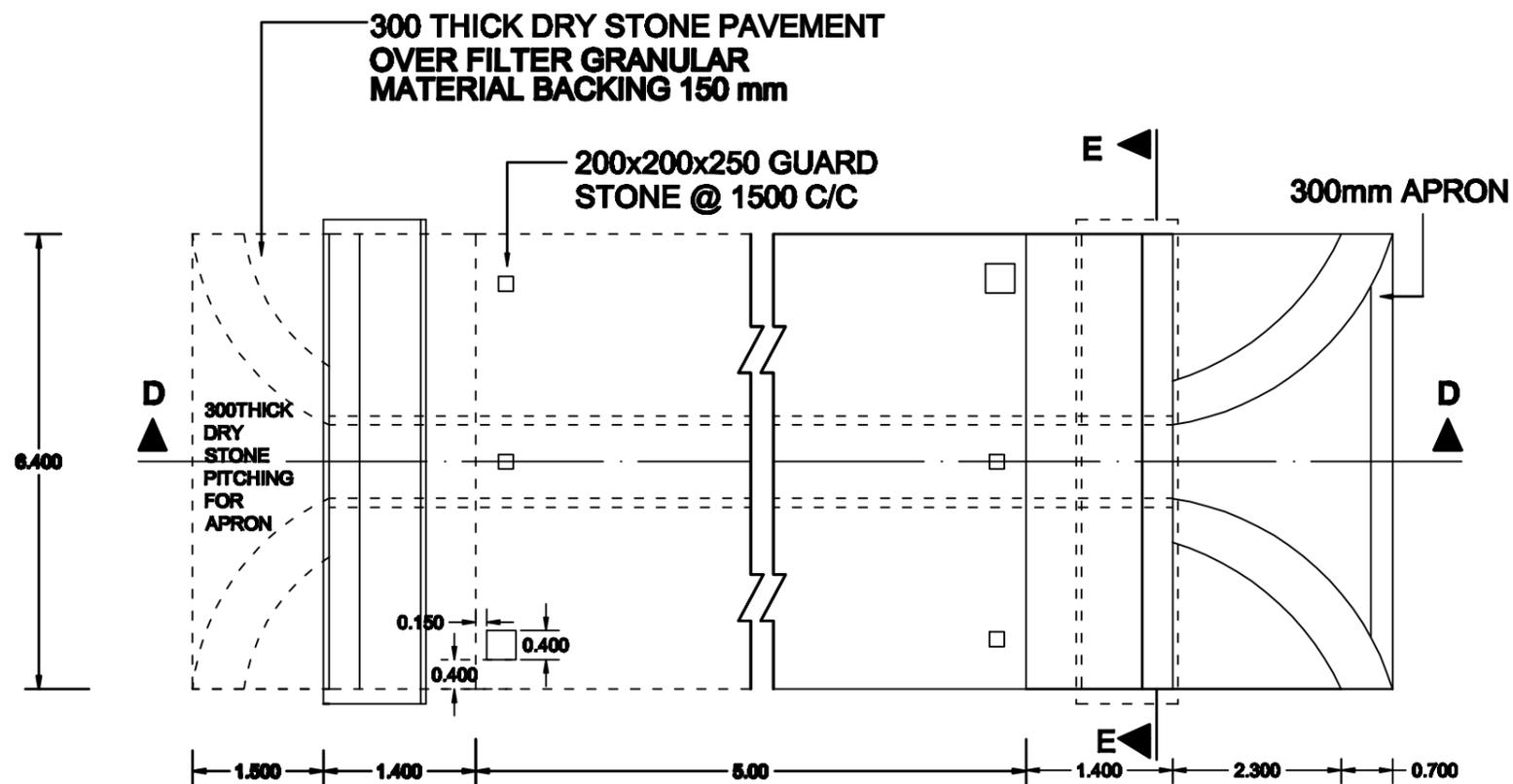
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**SECTION AT D - D**  
**1000mm DIA PIPE CULVERT SINGLE ROW**



**SECTION AT E - E**  
**1000mm DIA. CULVERT**



**PLAN OF 1000mm DIA SINGLE ROW CULVERT**

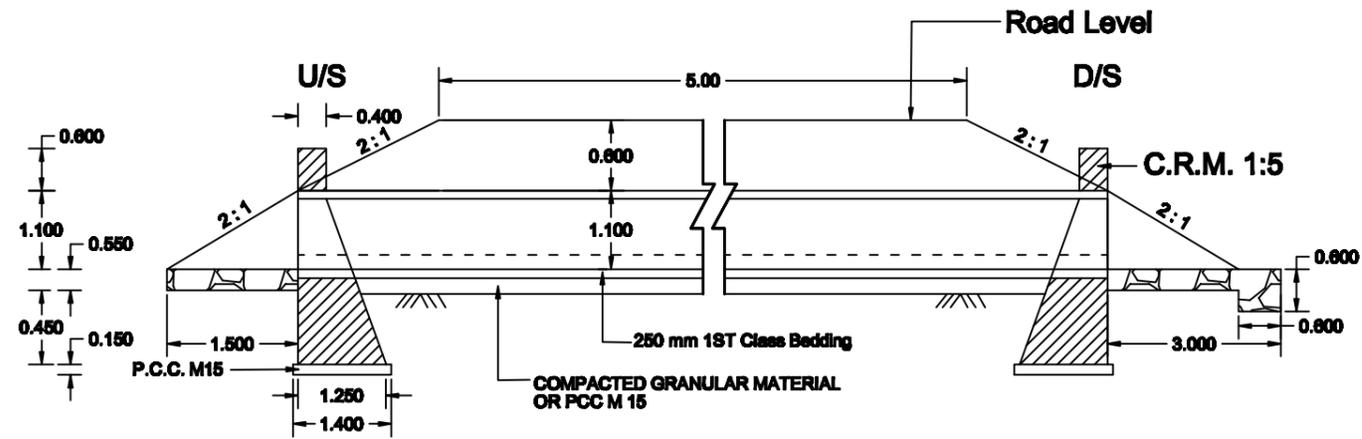
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 email: basicconsultant@gmail.com

**DRAWING :**  
 GENERAL ARRANGEMENT OF PIPE  
 CULVERT, 1000MM DIA

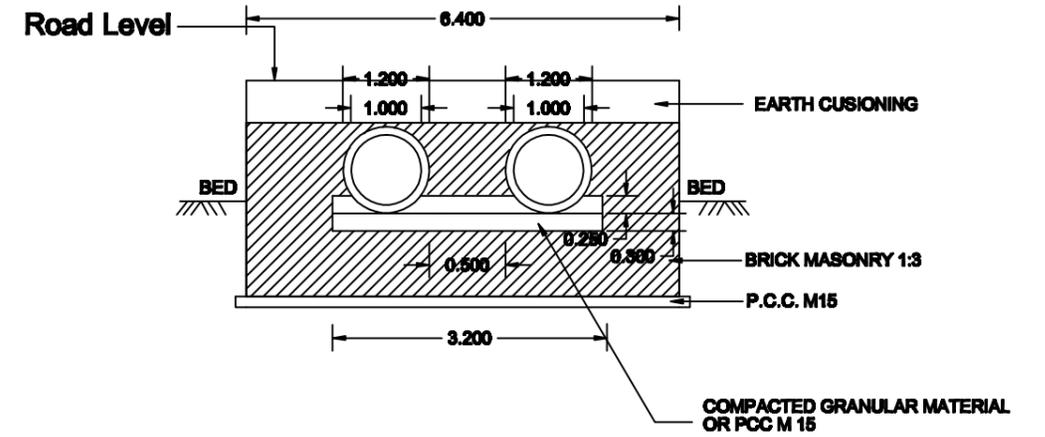
**DRAWING No. :**  
 ASSAM/SWIFT/GR-07/SD/03(B)

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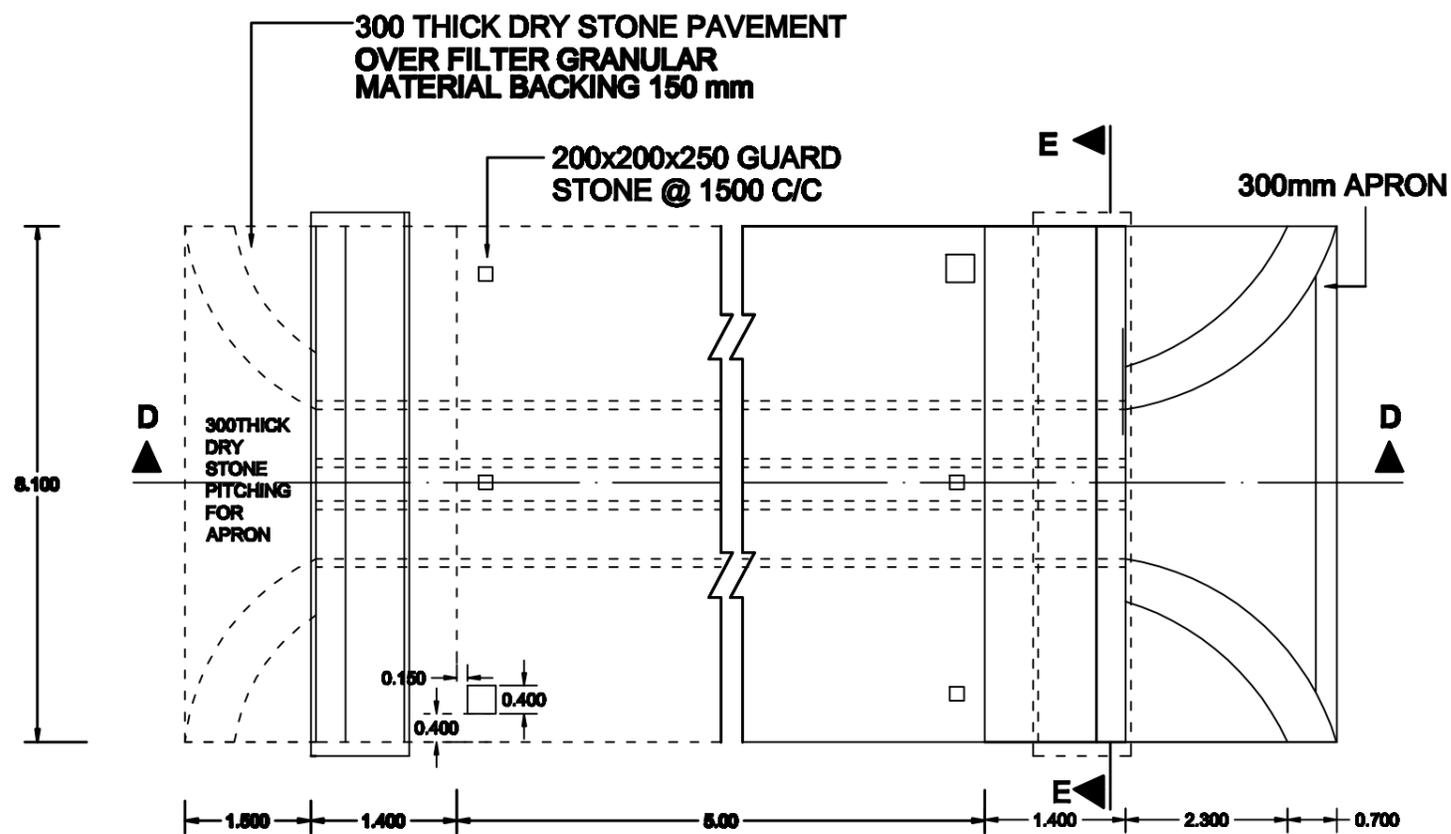
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**SECTION AT D - D**  
**1000mm DIA PIPE CULVERT DOUBLE ROW**



**SECTION AT E - E**  
**1000mm DIA. CULVERT**



**PLAN OF 1000mm DIA DOUBLE ROW CULVERT**

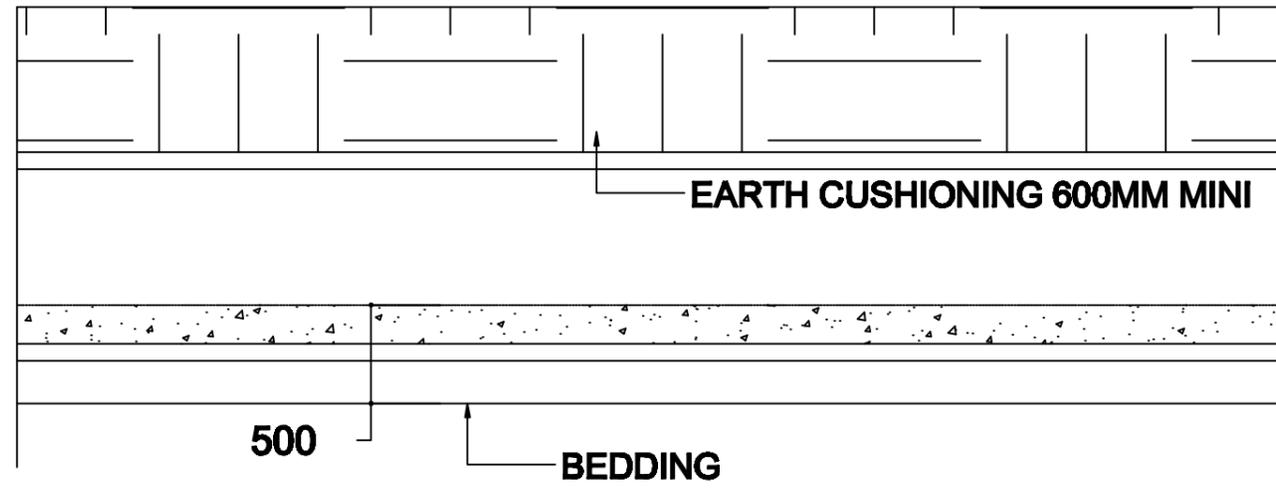
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**DRAWING :**  
**GENERAL ARRANGEMENT OF PIPE CULVERT,**  
**DOUBLE HUME PIPE 2 X 1000MM DIA**

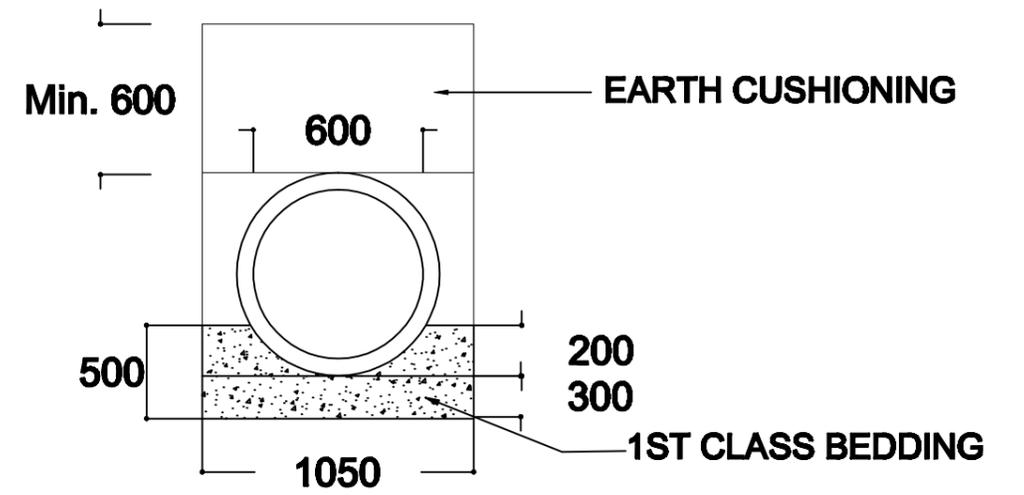
**DRAWING No. :**  
**ASSAM/SWIFT/GR-07/SD/03(C)**

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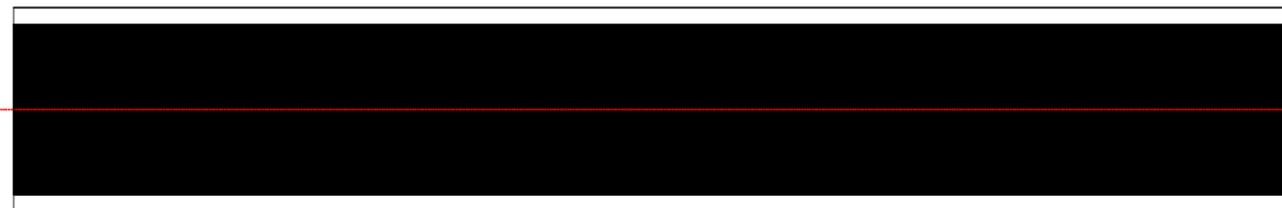
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LONGITUDINAL SECTION OF HUME PIPE CULVERT



CROSS SECTION OF HUME PIPE CULVERT



PLAN OF HUME PIPE CULVERT

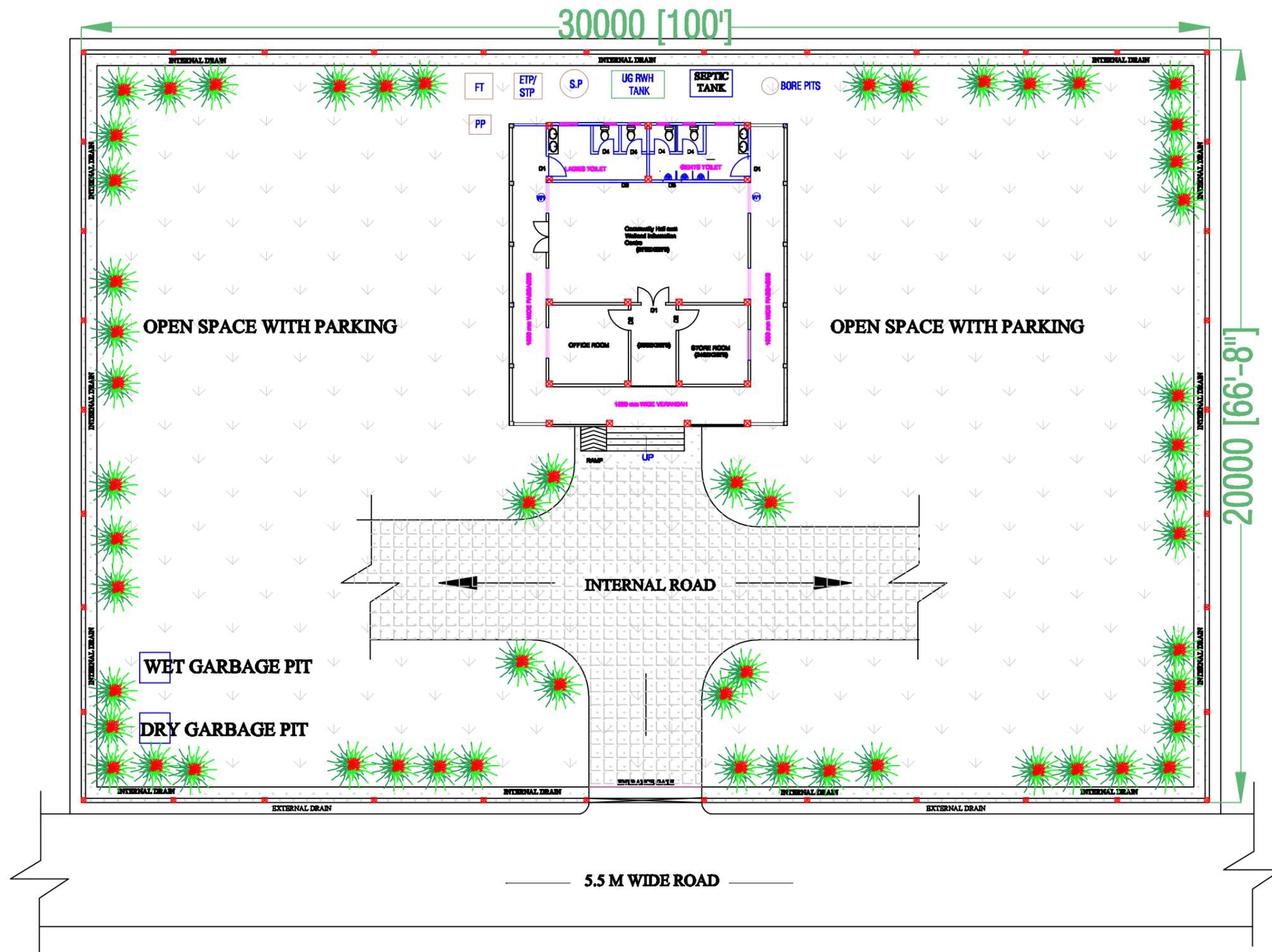
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**DRAWING :**  
 GENERAL ARRANGEMENT OF LAYING PIPE  
 CULVERT, 600MM DIA

**DRAWING No. :**  
 ASSAM/SWIFT/GR-07/SD/03(D)

NOT TO SCALE

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**SITE PLAN**

**Prepared by**  
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**DRAWING :**  
 SITE PLAN

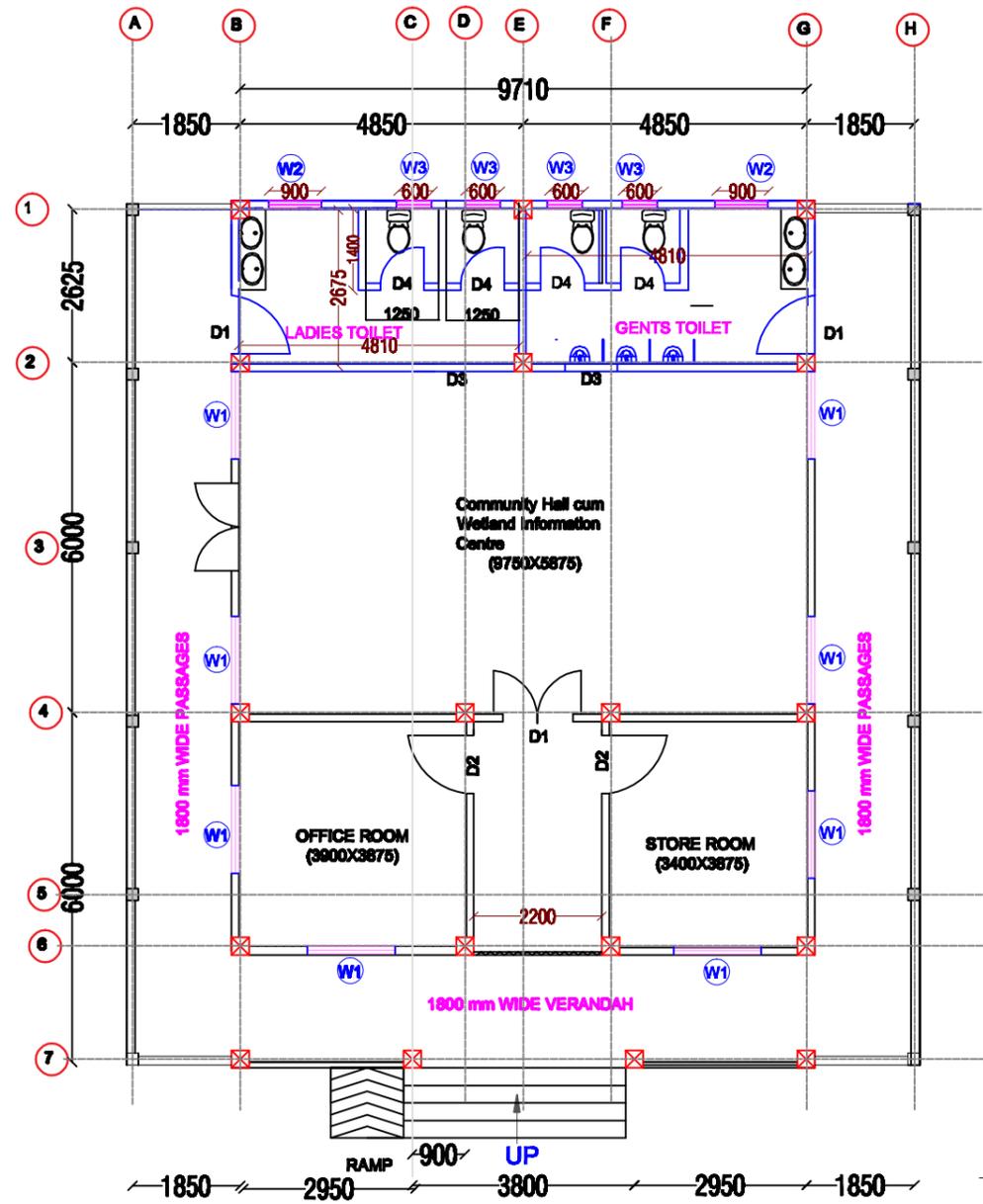
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 Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

**DRAWING No. :**  
 ASSAM/SWIFT/GR-07/SD/04(A)

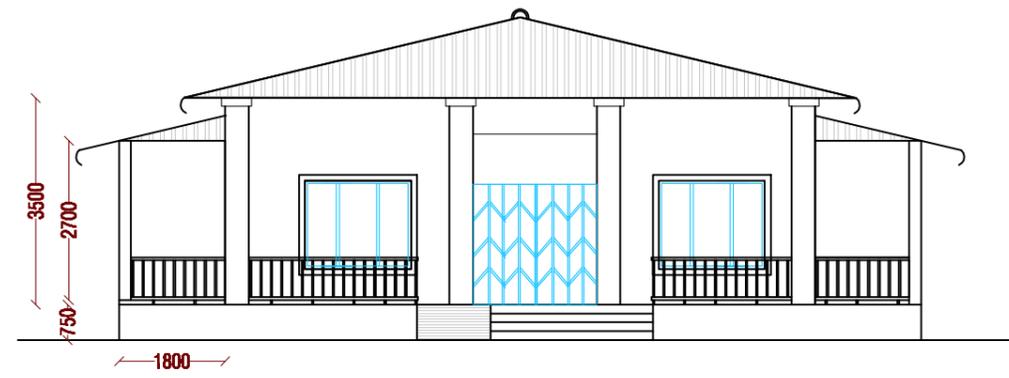
DRAWING CONTENTS: Community Hall cum  
 Wetland Information Centre

NOT TO SCALE

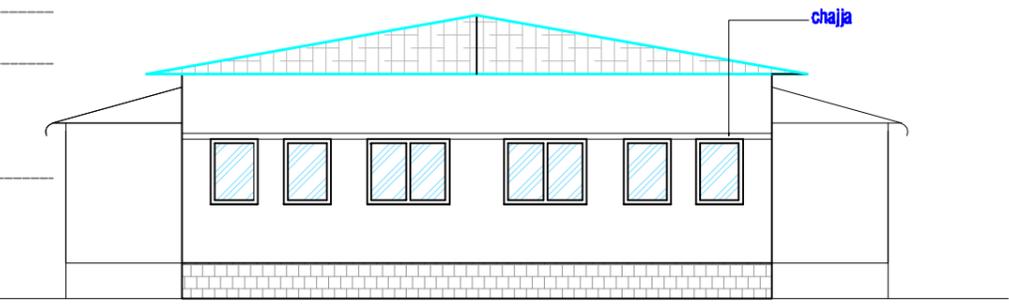
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**GOVERNMENT OF ASSAM**  
**Assam Rural Infrastructure**  
**Agricultural Service Society**



**FLOOR PLAN**



**FRONT ELEVATION**



**BACK VIEW**

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**DRAWING :**  
 PLAN & ELEVATION

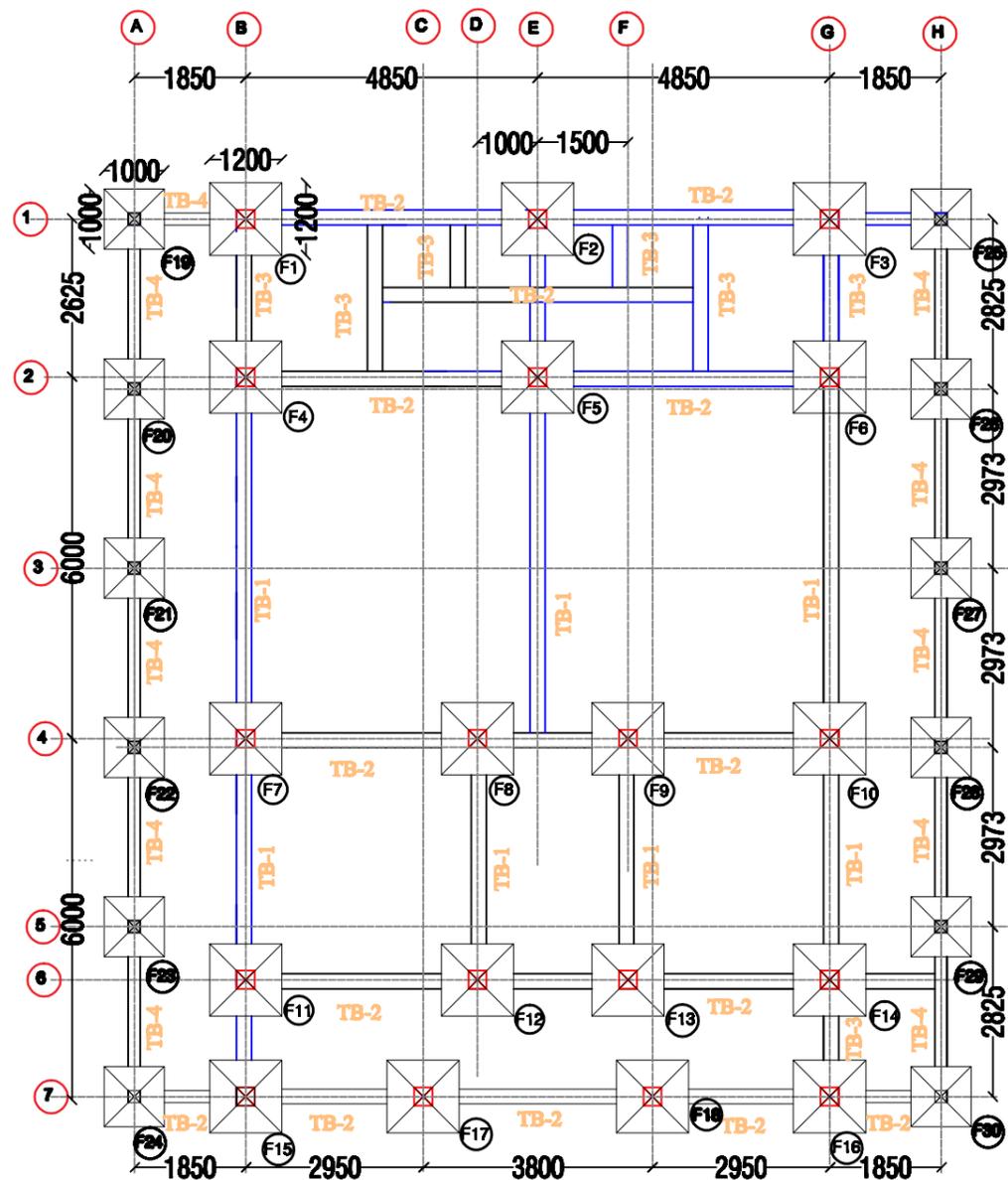
PROJECT TITLE:  
 Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

**DRAWING No. :**  
 ASSAM/SWIFT/GR-07/SD/04(B)

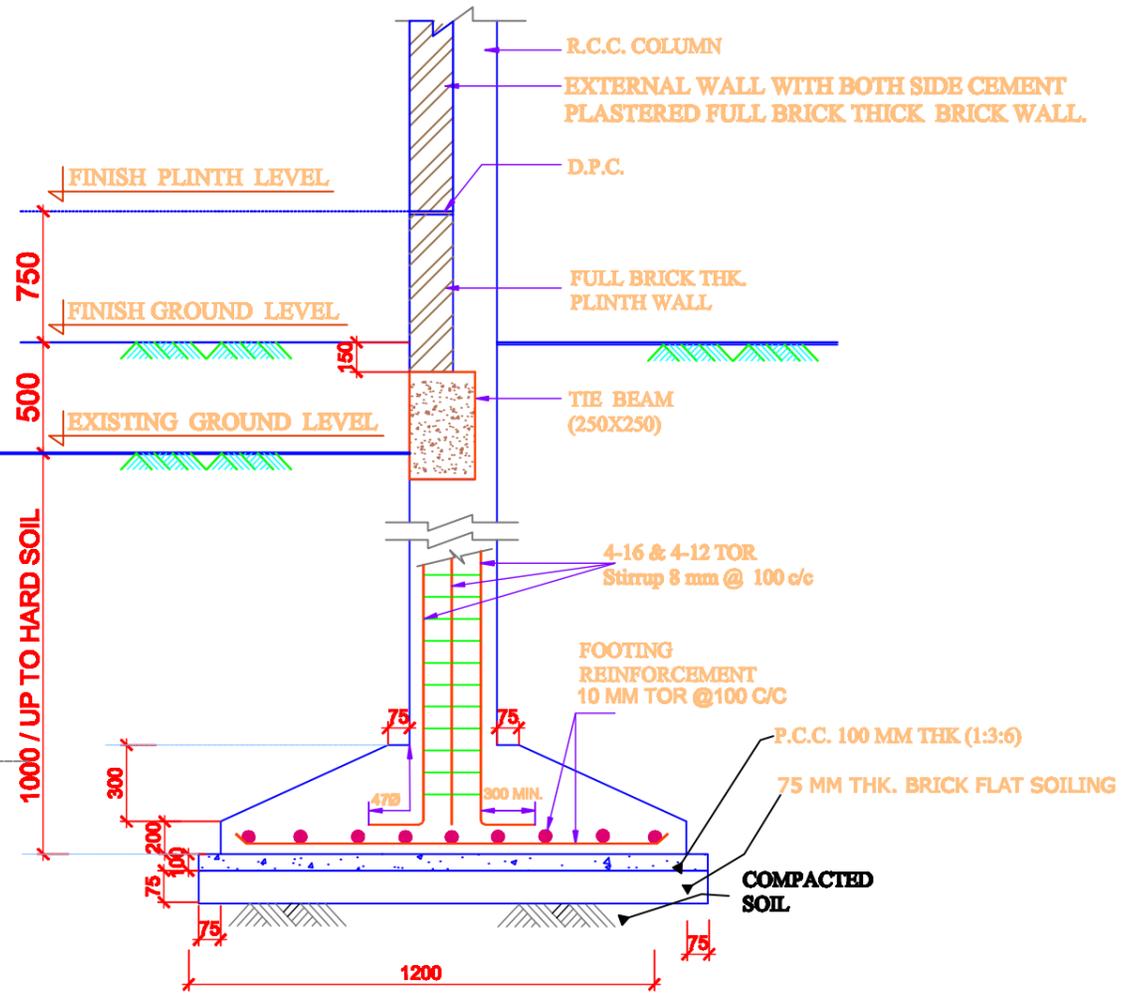
**DRAWING CONTENTS:** Community Hall cum  
 Wetland Information Centre

**NOT TO SCALE**

**ARIAS Society**  
**GOVERNMENT OF ASSAM**  
**Assam Rural Infrastructure**  
**Agricultural Service Society**



**LAYOUT OF FOOTING & PLINTH BEAM**



**TYPICAL DETAILS OF FOUNDATION**

**Schedule of Beam, Column & Footing Reinforcement**

Sl. No.	Items	Size (mm)	Reinforcement Details
1	Footing (F-1to F-18)	1000x1000	10mm Tor @100 c/c (Both ways)
2	Tie Beam (TB-1 to TB-4)	250x250	Main Bar: 4-16 & 4-12 TOR Stirrup: 8mm @100 c/c Main Bar: 4-12 & 4-12 TOR
3	Plinth Wall	150x150	Main Bar: 4-12 TOR Stirrup: 8mm @100 c/c
4	Plinth Wall	150x150	Main Bar: 4-12 TOR Stirrup: 8mm @100 c/c
5	Column	200x200	Main bar: 4 no-12# Stirrup- 8AMM@100C/C
6	Column	200x200	Main bar: 4 no-12# Stirrup- 8AMM@100C/C
7	Footing	1000x1000	10mm Tor @100 c/c (Both ways)

**Prepared by**  
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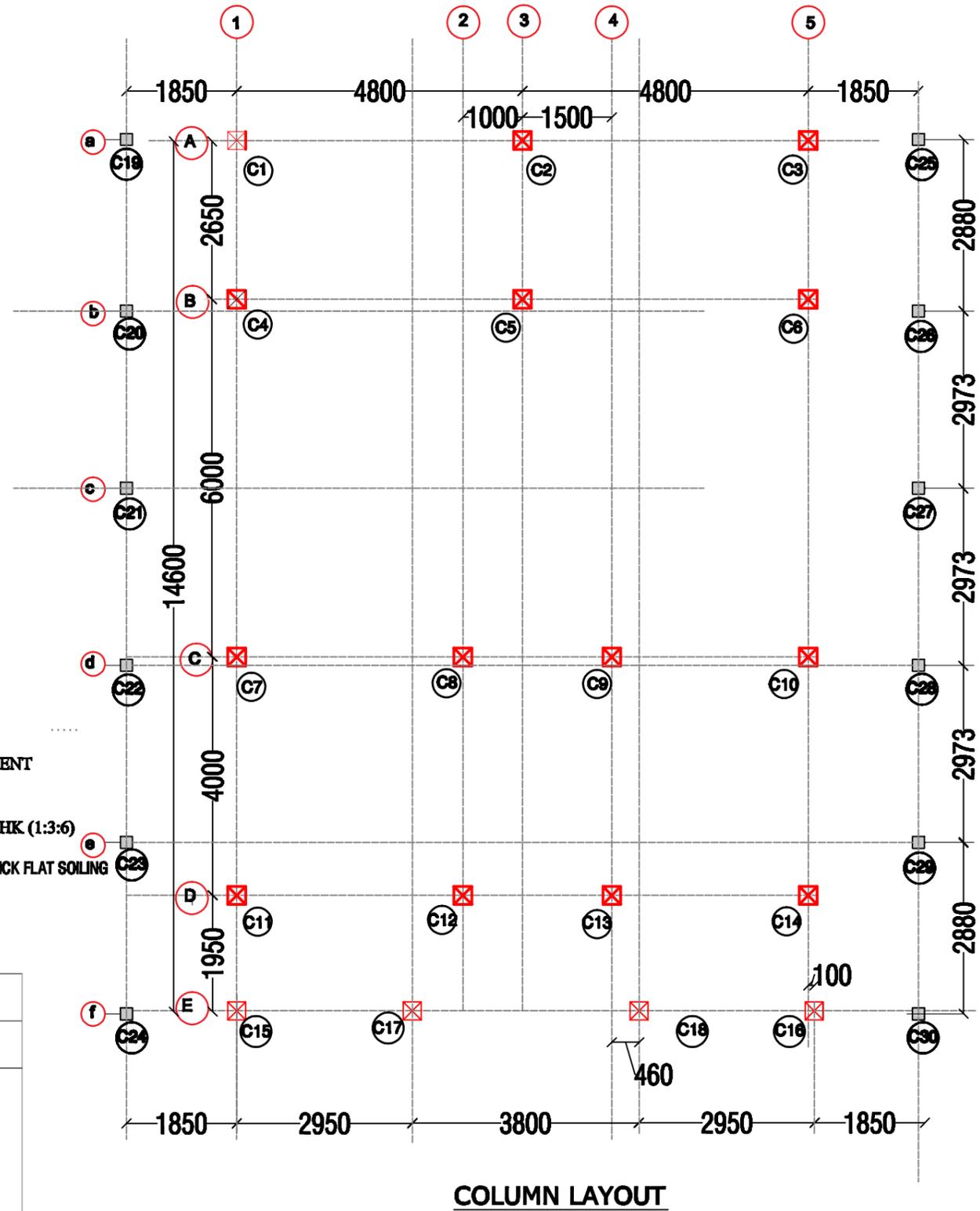
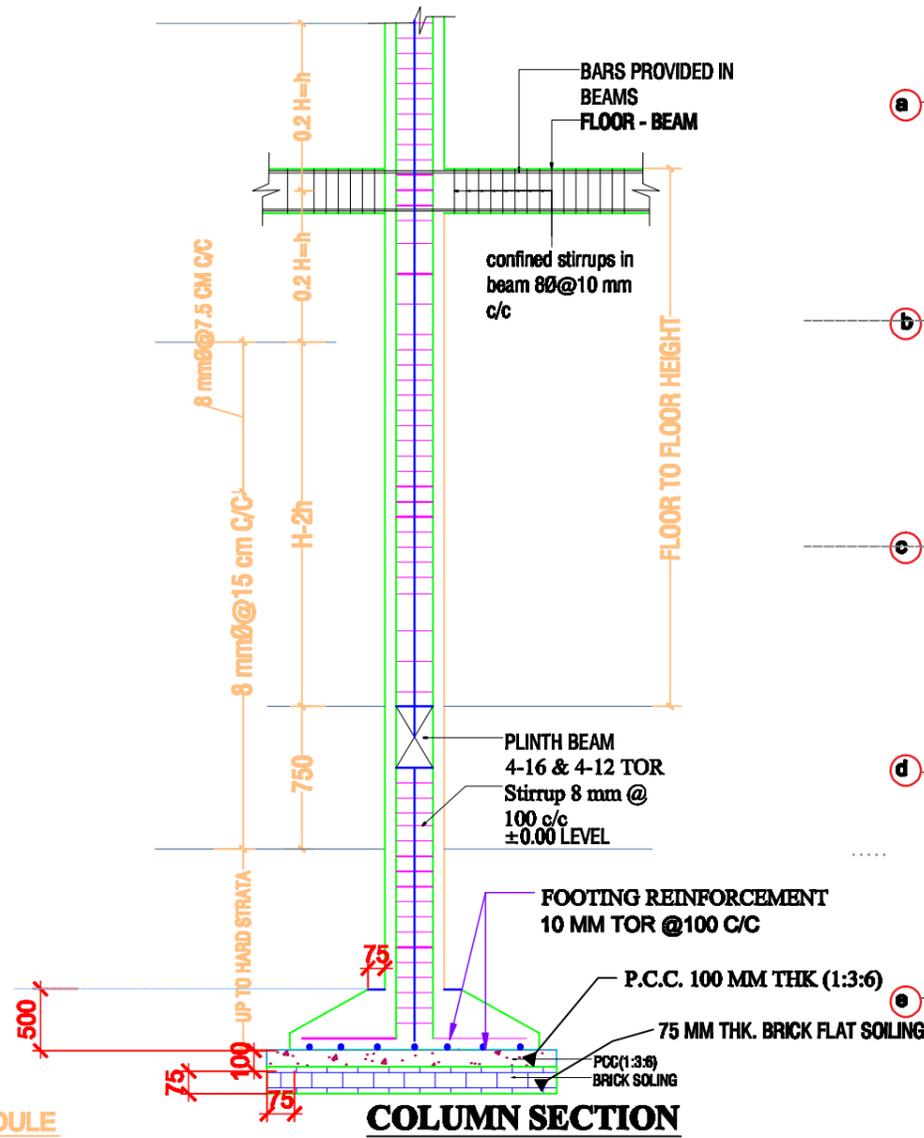
**DRAWING :**  
**LAYOUT OF FOOTING & PLINTH BEAM**  
 PROJECT TITLE:  
 Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

**DRAWING No. :**  
 ASSAM/SWIFT/GR-07/SD/04(C)  
**DRAWING CONTENTS:** Community Hall cum  
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**COLUMN SECTION**  
NOTE : FLOOR LEVELS AS PER ARCH. DRAWING



**COLUMN SCHEDULE**

		TYPE A				
		COLUMN SIZE	COLUMN TYPE	SPECIFICATION	BAR SIZE	TIES
GROUND TO RIDGE COLUMN DETAIL	ARRANGEMENT OF LINKS	300X300	 4-16φ + 4-12φ	 8 MM TIES WITH ALTERNATE MAIN TIES	A=18 MM B=12 MM	8 MM BAR AS PER SPECIFIED
	COLUMN DETAIL C1,C2,C3,C4,C5,C6, C7,C8,C9,C10,C11, C12,C13,C14,C15, C16,C17,C18					
	C19 to C30	200X200	 4-12φ		A=12 MM	

**COLUMN LAYOUT**

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**DRAWING :**  
LAYOUT OF COLUMN

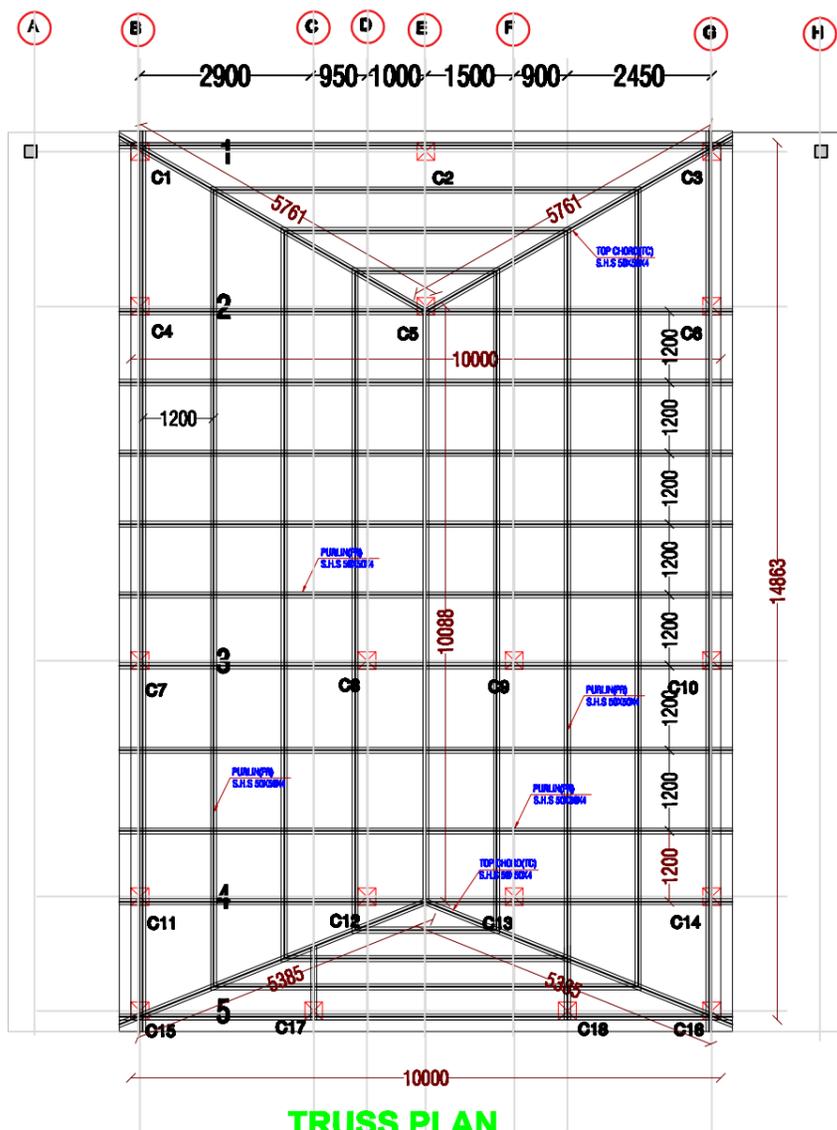
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Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

**DRAWING No. :**  
ASSAM/SWIFT/GR-07/SD/04(D)

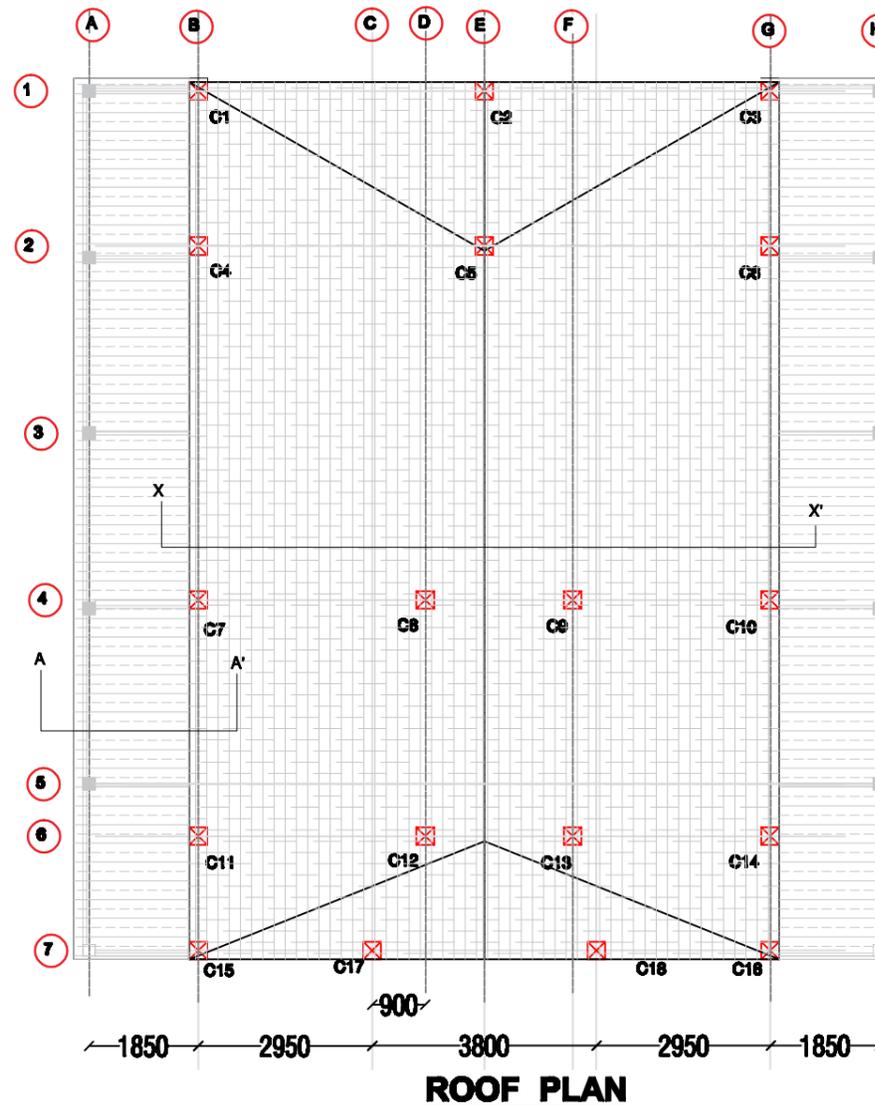
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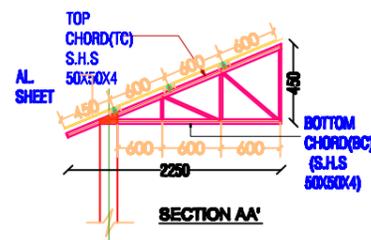
**ARIAS Society**  
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**Assam Rural Infrastructure**  
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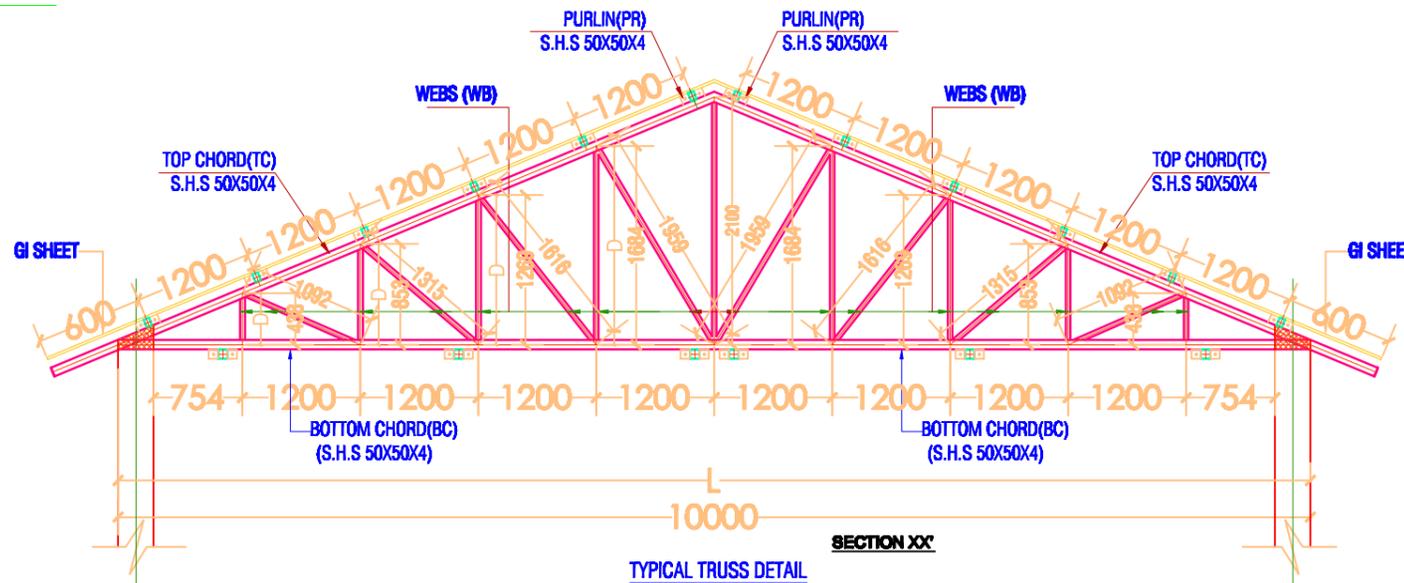
**TRUSS PLAN**



**ROOF PLAN**



**SECTION AA'**



**TYPICAL TRUSS DETAIL**

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**DRAWING :**  
 LAYOUT & DETAILS OF TRUSS

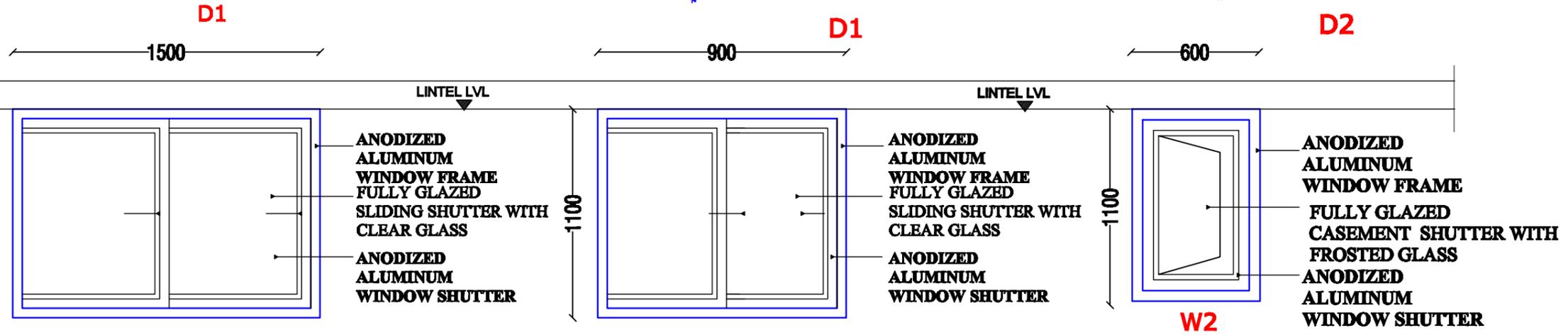
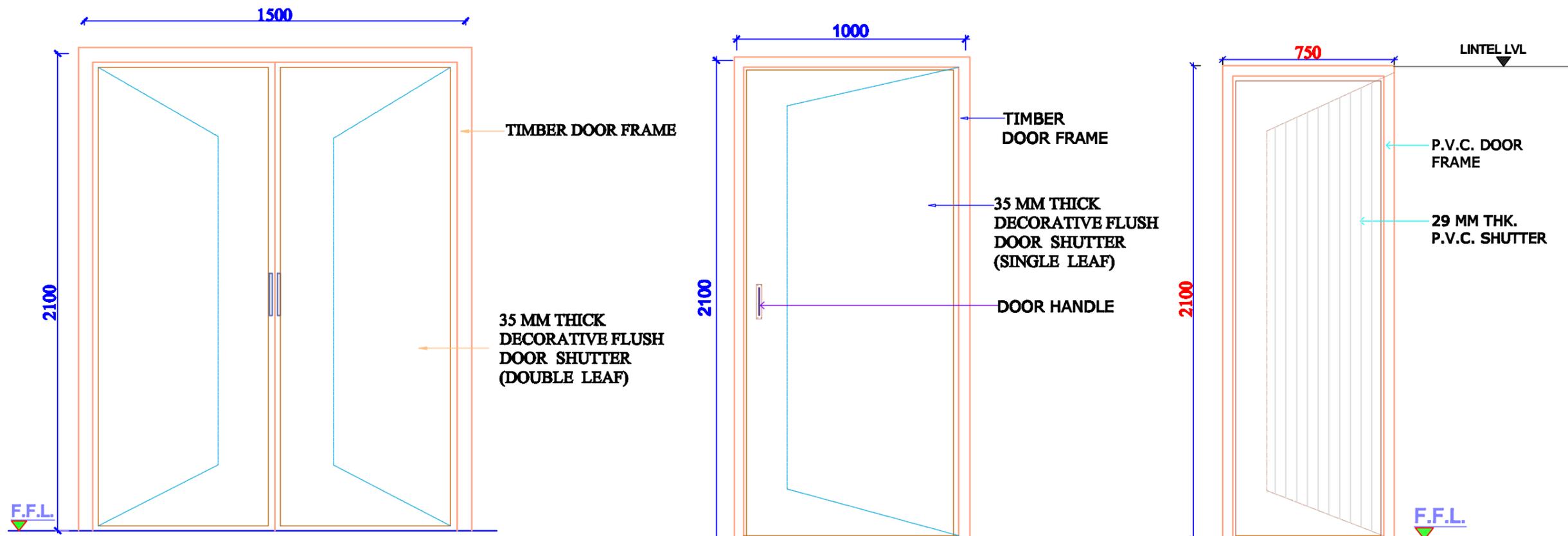
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 Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

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 ASSAM/SWIFT/GR-07/SD/04(E)

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SL. NO.	TYPE	DESCRIPTION	DIMENSION	LINTEL LVL	SILL LVL
1.	D	DOUBLE LEAF WOODEN DOOR	1500x2100	2100	-
2.	D1	FLUSH DOOR	1000x2100	2100	-
3.	D2	PVC DOOR	750 x2100	2100	-
4.	W	ALUMINUM WINDOW	1500x1100		-
5.	W1	ALUMINUM WINDOW	900x1100		
6.	W2	ALUMINUM WINDOW	600x1100		

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 HADACH, ASSAM, PIN-782002  
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**DRAWING :**  
**DETAIL & SCHEDULE OF DOORS & WINDOWS**

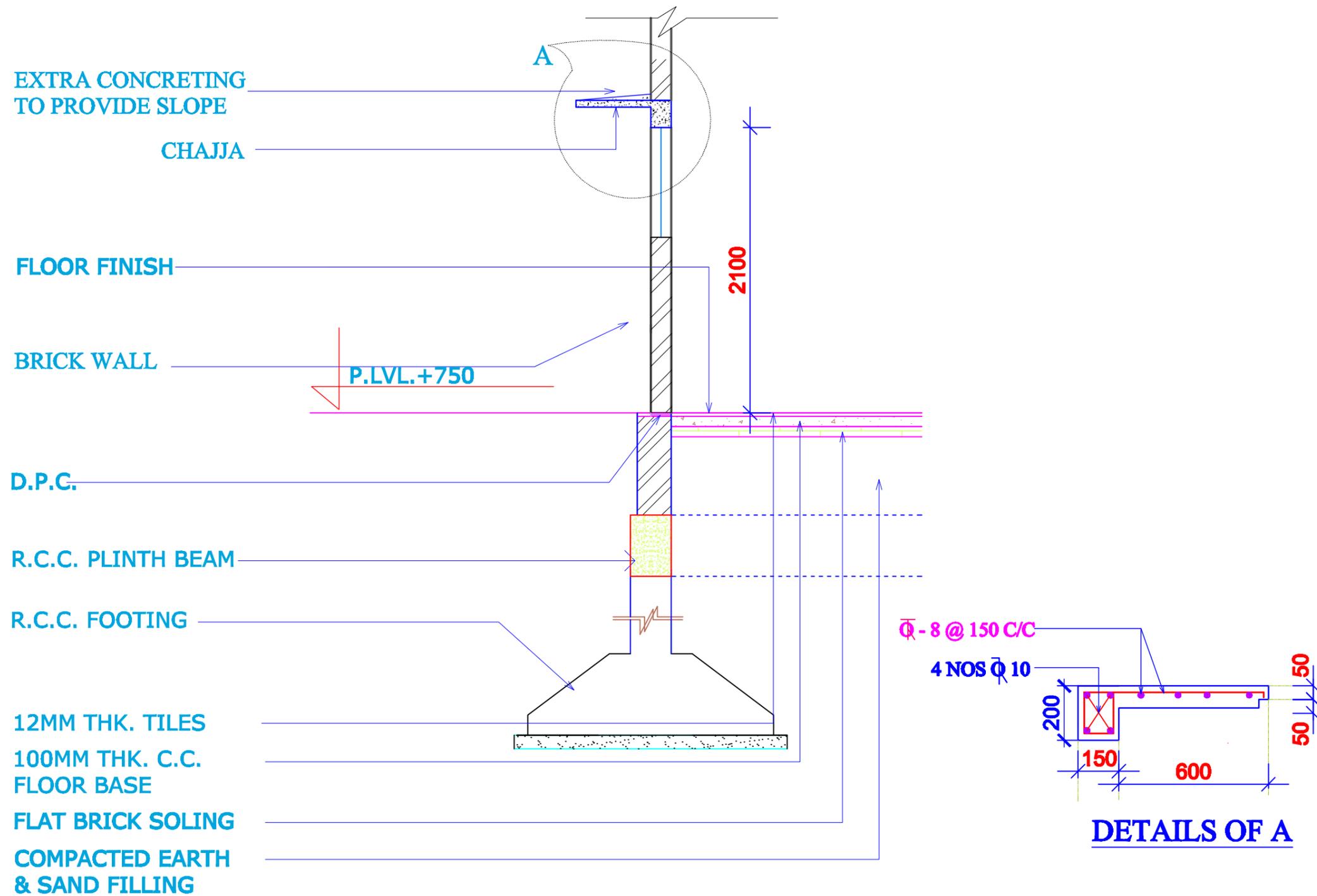
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 Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

**DRAWING No. :**  
**ASSAM/SWIFT/GR-07/SD/04(F)**

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**Assam Rural Infrastructure**  
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**GENERAL SECTION THROUGH R.C.C. LINTEL , WINDOW & FLOOR.**

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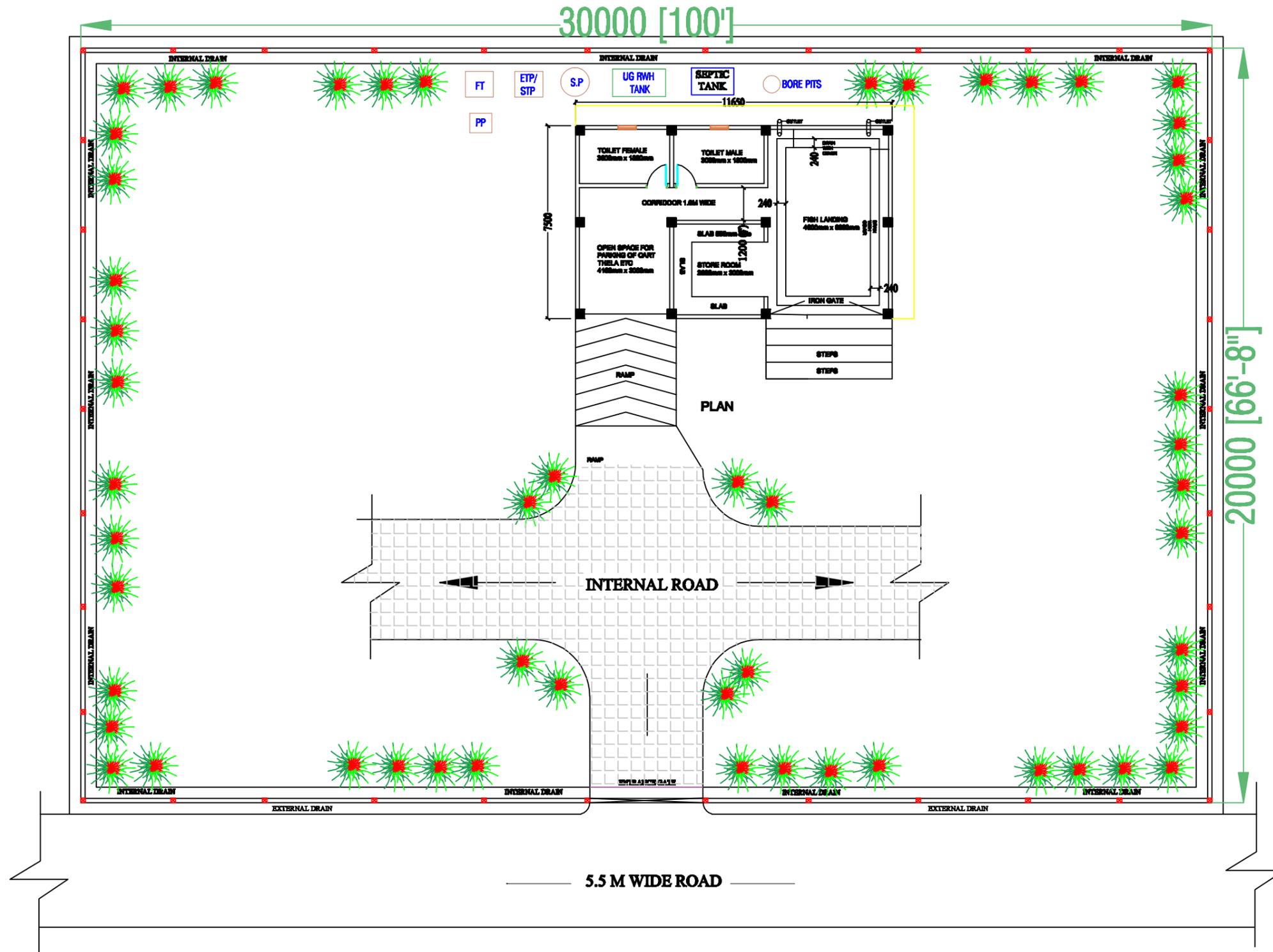
**DRAWING :**  
 CHAJJA DETAILS

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

**DRAWING No. :**  
 ASSAM/SWIFT/GR-07/SD/04(G)  
**DRAWING CONTENTS:** Community Hall cum  
 Wetland Information Centre

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**SITE PLAN**

Prepared by  
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**DRAWING :**  
 SITE PLAN

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

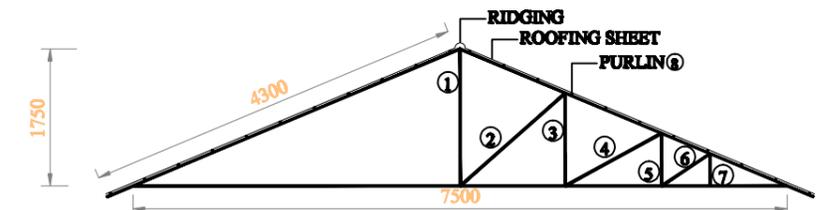
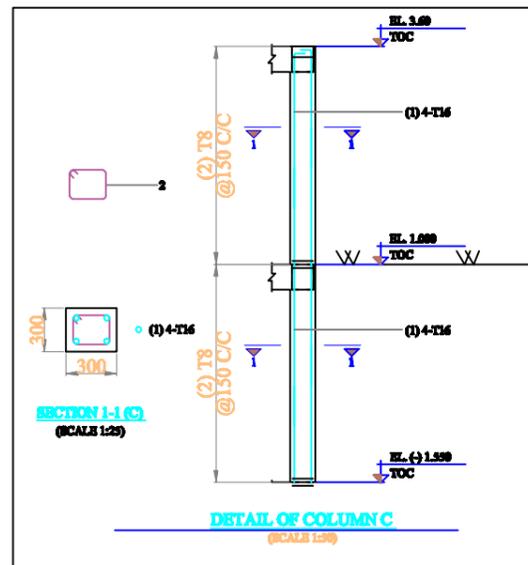
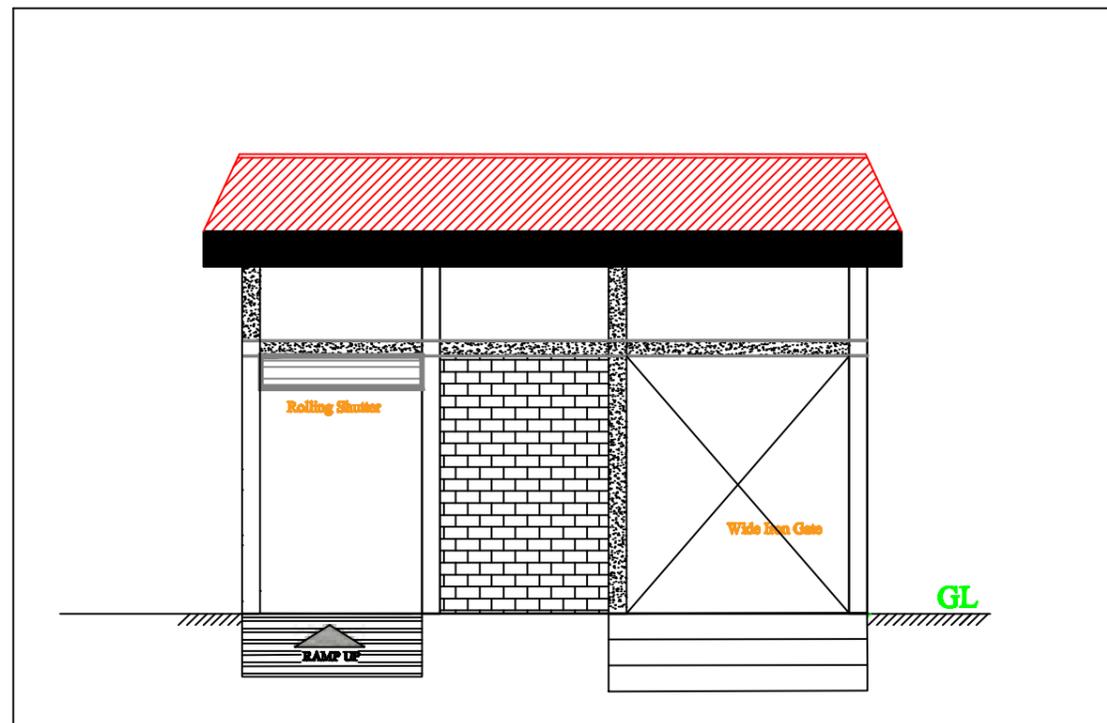
**DRAWING No. :**

ASSAM/SWIFT/GR-07/SD/05

DRAWING CONTENTS: FISH LANDING CENTRE

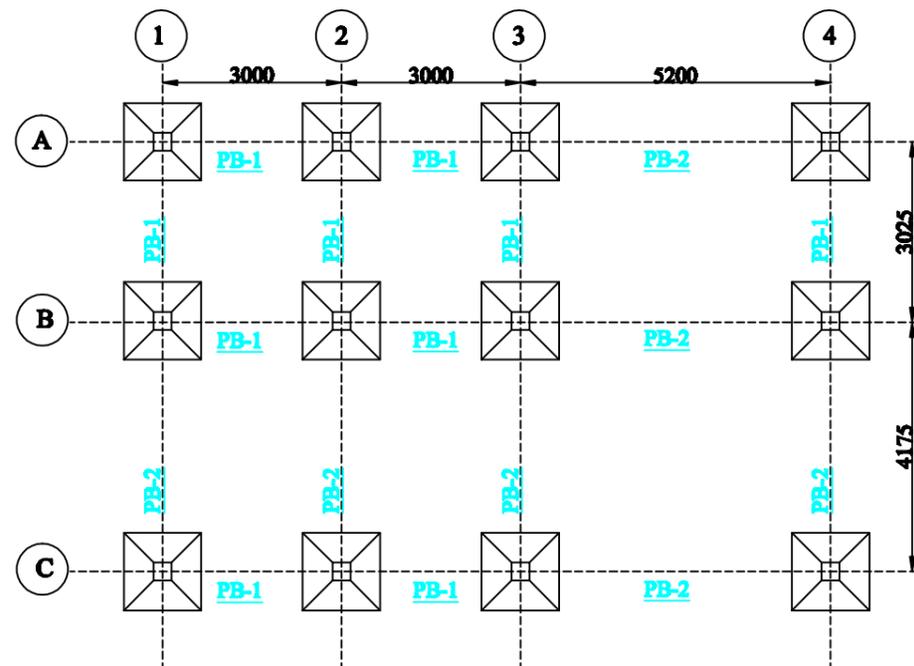
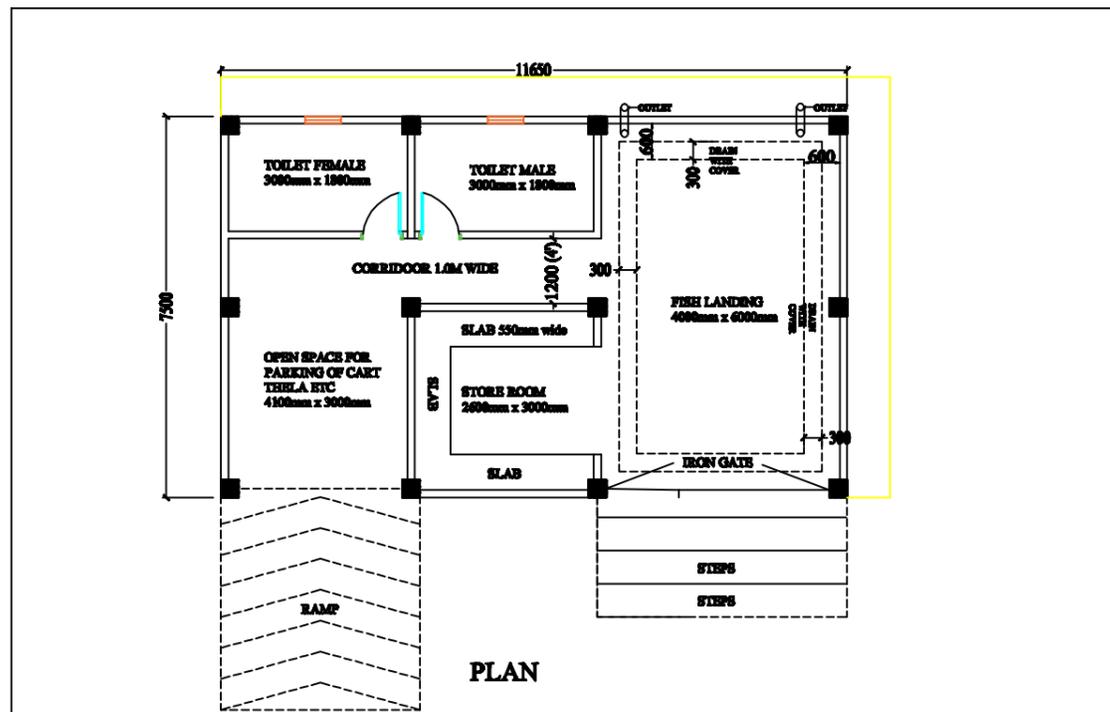
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- ① 65mm X 65mm = 1750mm
- ② 65mm X 65mm = 1618mm
- ③ 65mm X 65mm = 1345mm
- ④ 65mm X 65mm = 1047mm
- ⑤ 65mm X 65mm = 535mm
- ⑥ 65mm X 65mm = 935mm
- ⑦ 65mm X 65mm = 262mm
- ⑧ 40mm X 40mm = 11850mm

TUBULAR ROOF TRUSS



FOOTING LAYOUT

**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

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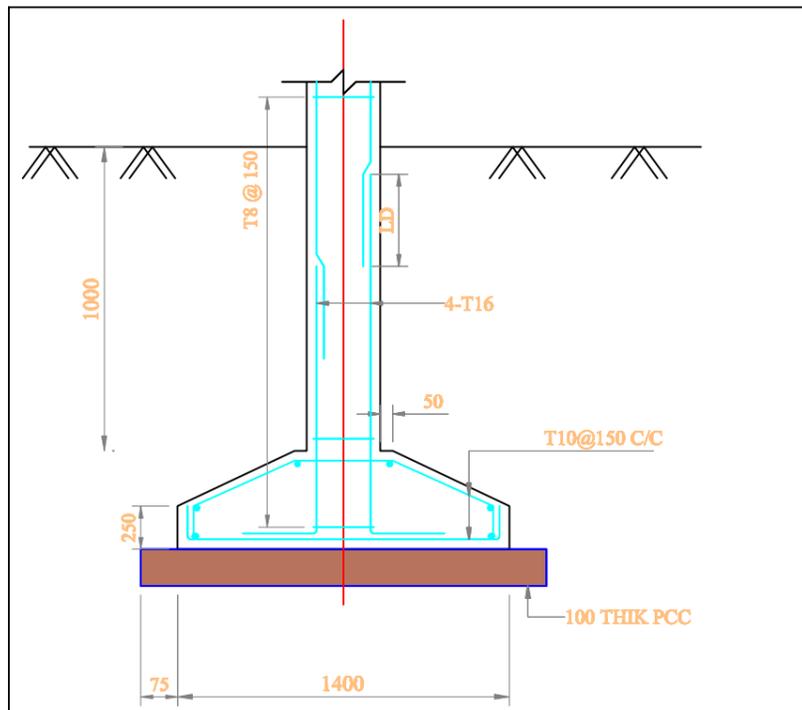
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 NABACH, ASSAM, PIN-782202  
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**DRAWING :**  
 PLAN, ELEVATION & CS OF FISH  
 LANDING CENTRE

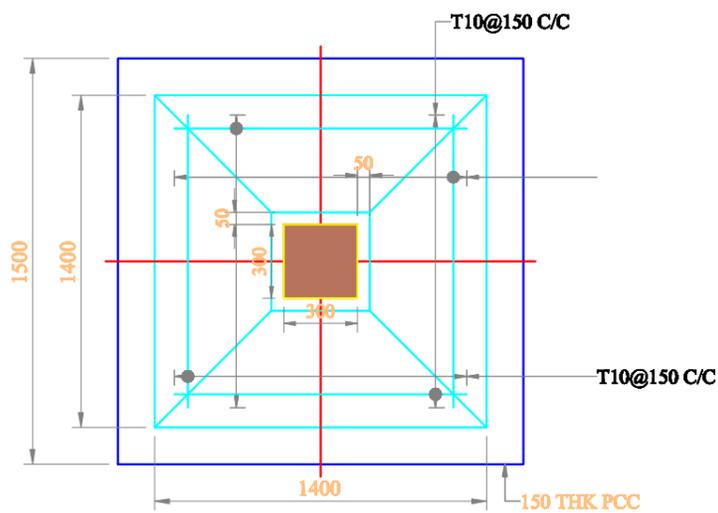
**DRAWING No. :**  
 ASSAM/SWIFT/GR-07/SD/05(B)

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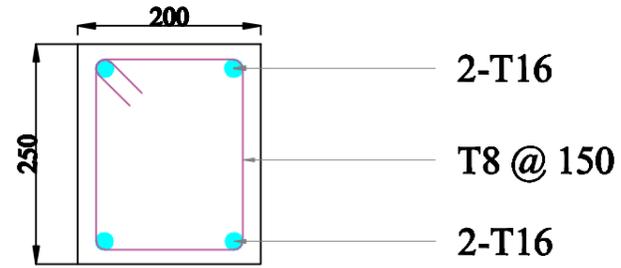
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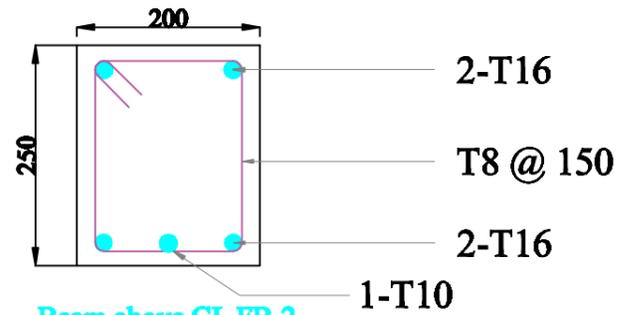
**SECTION 1-1  
DETAIL OF FOOTING**



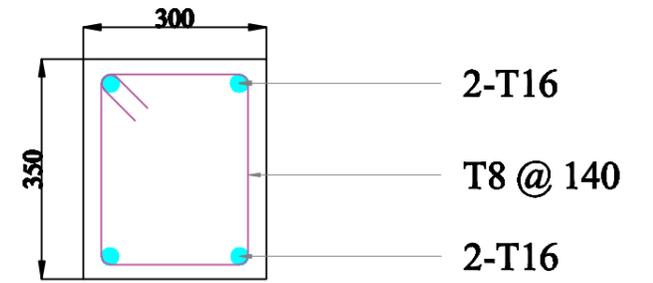
**FOOTING - PLAN**



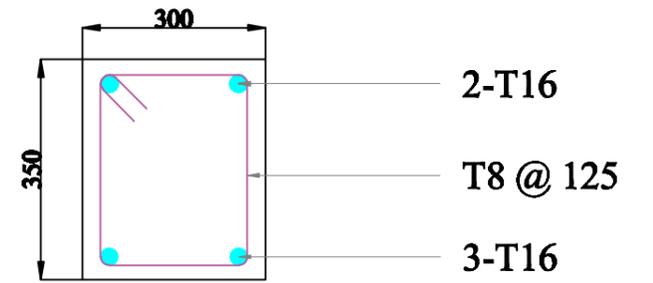
**Beam above GL FB-1**



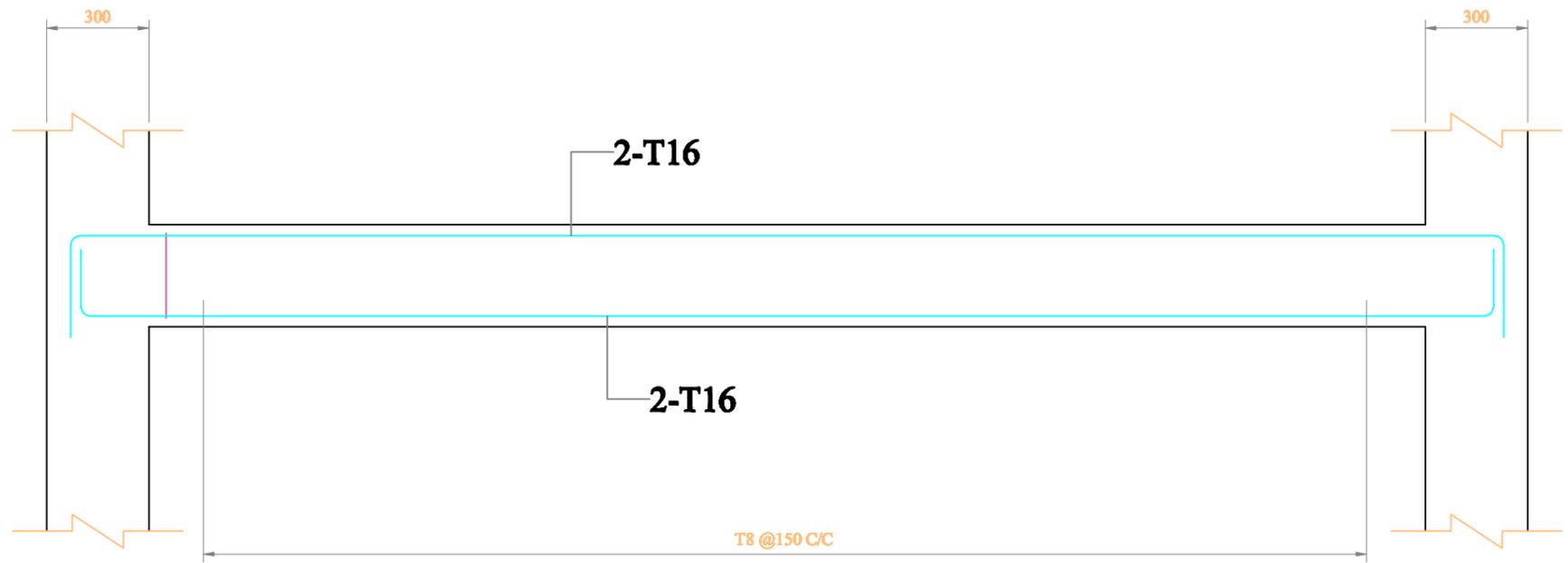
**Beam above GL FB-2**



**Plinth Beam Section PB-1**



**Plinth Beam Section PB-2**



**BEAM:300x350**

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

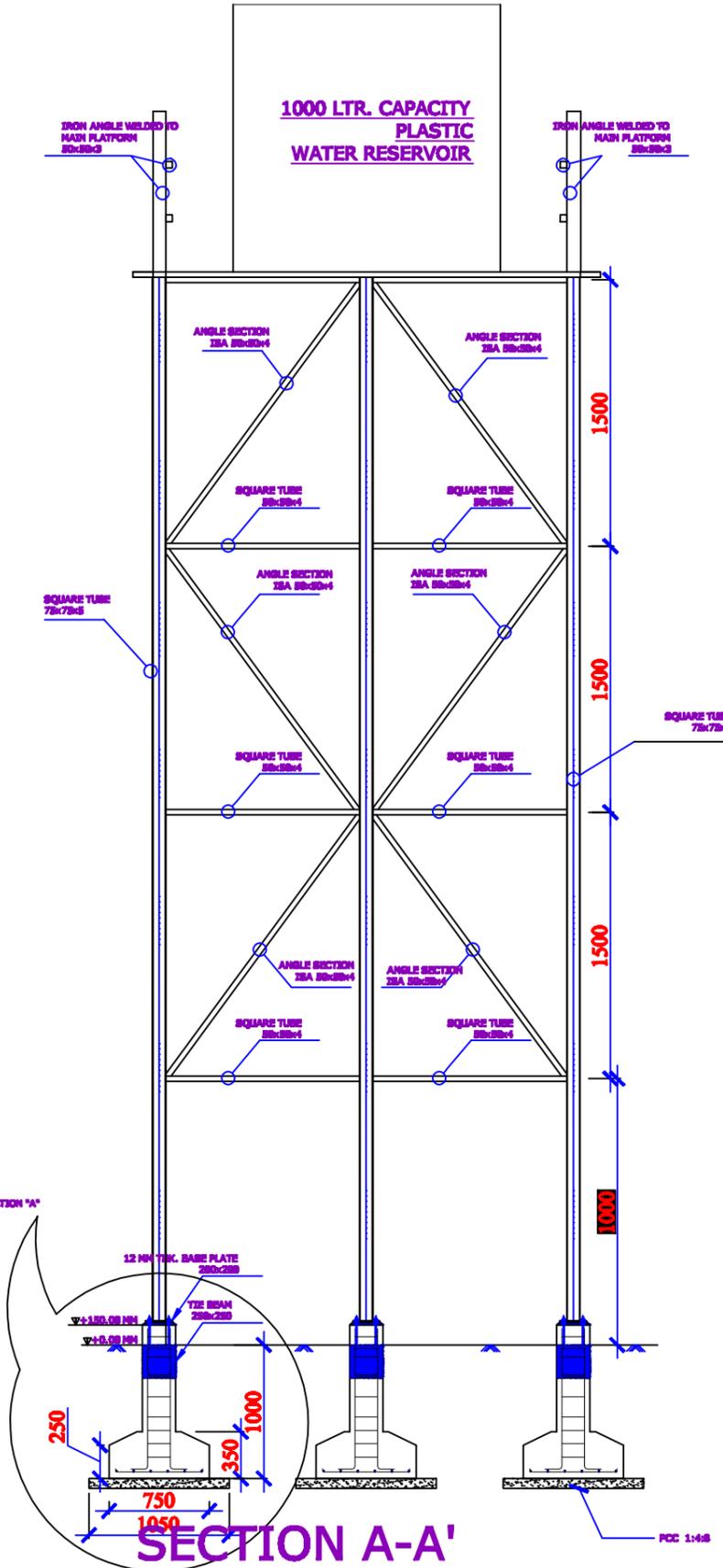
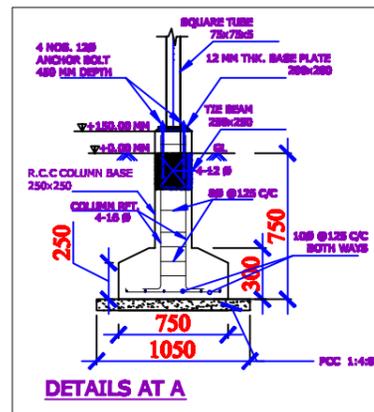
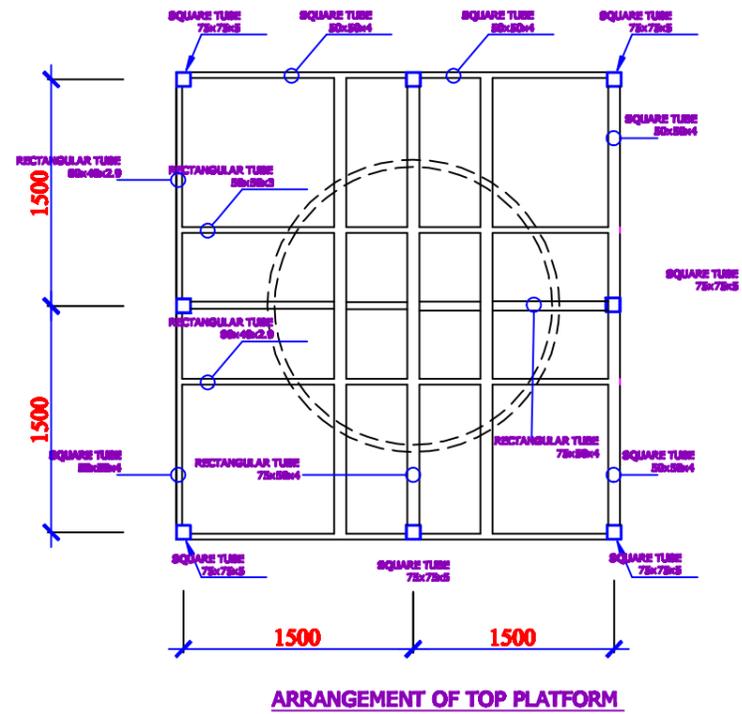
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**DRAWING :**  
 STRUCTURAL DETAILS OF  
 FISH LANDING UNIT

**DRAWING No. :**  
 ASSAM/SWIFT/GR-07/SD/05(C)

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- 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

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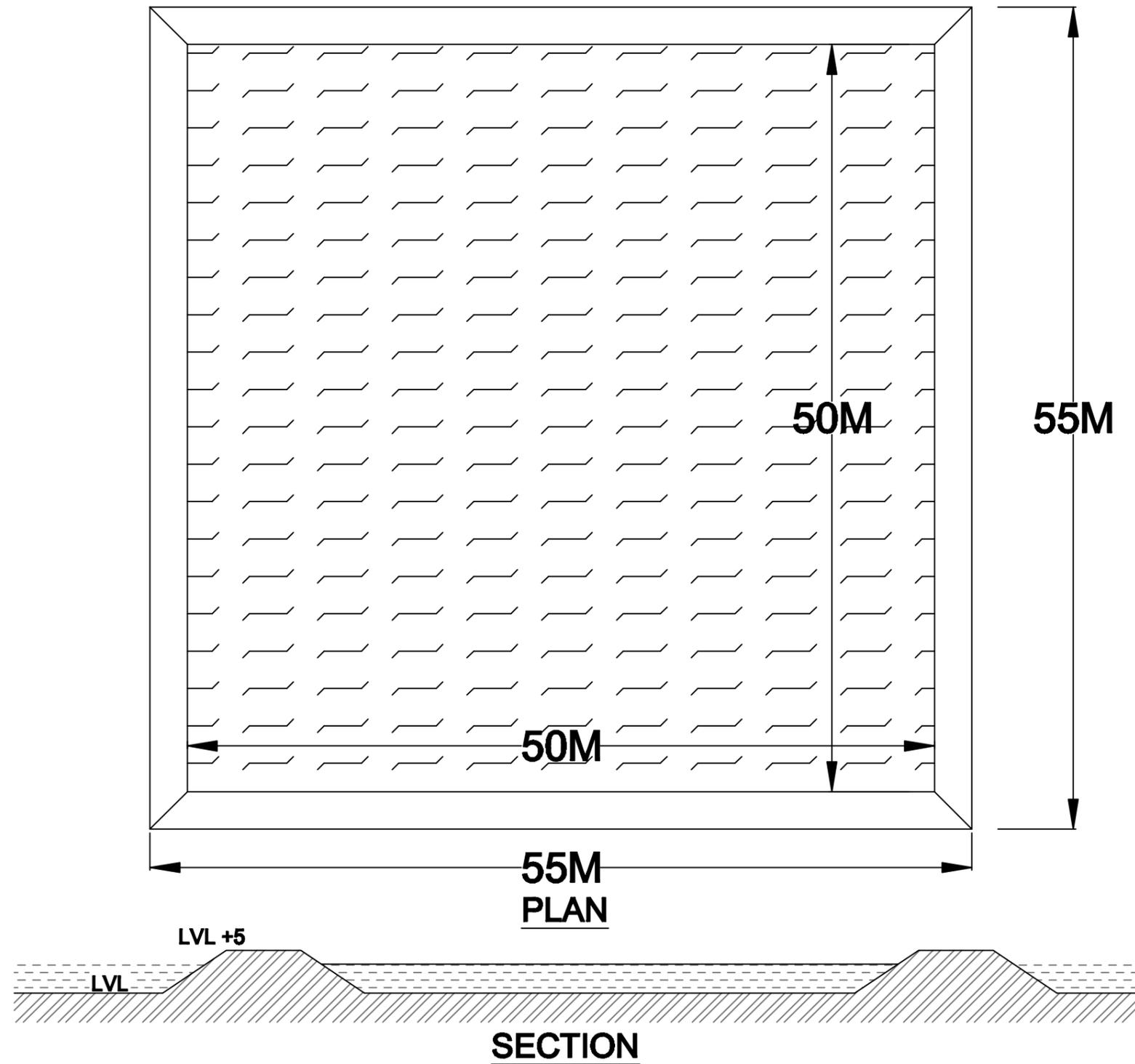
**DRAWING :**  
**OVER HEAD TANK**

**DRAWING NO. :**  
**ASSAM/SWIFT/GR-07/SD/06**

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# TYPICAL PLAN & SECTION OF REARING TANK



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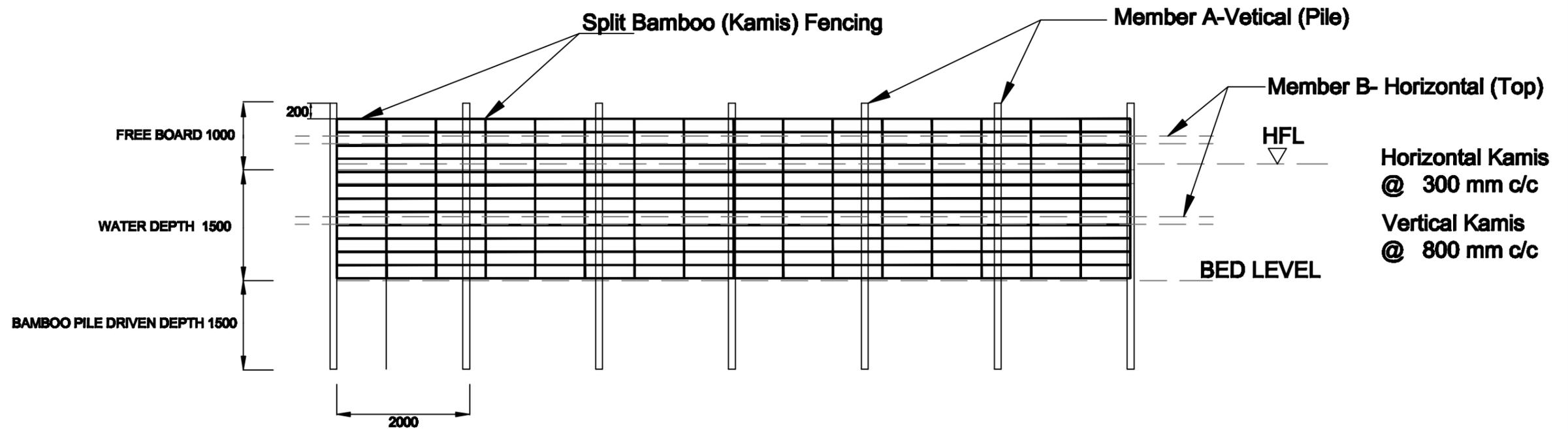
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**DRAWING :**  
**PLAN & TYP. CS OF REARING TANK**

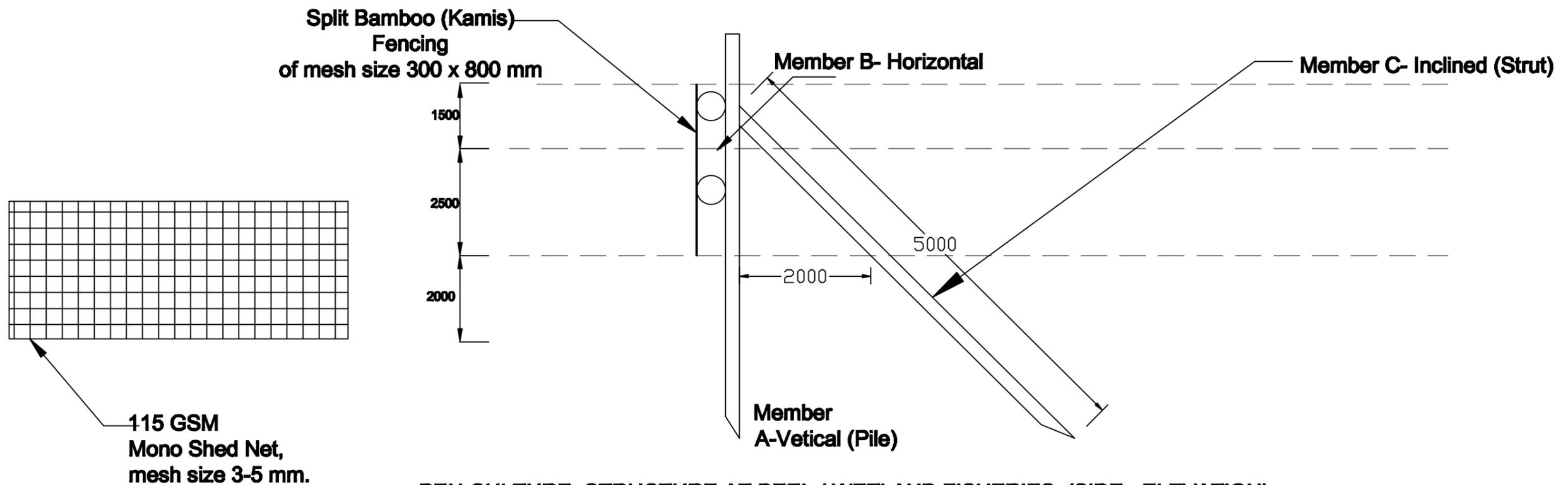
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PEN CULTURE STRUCTURE AT BEEL / WETLAND FISHERIES. (FRONT - ELEVATION)



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

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**DRAWING :**

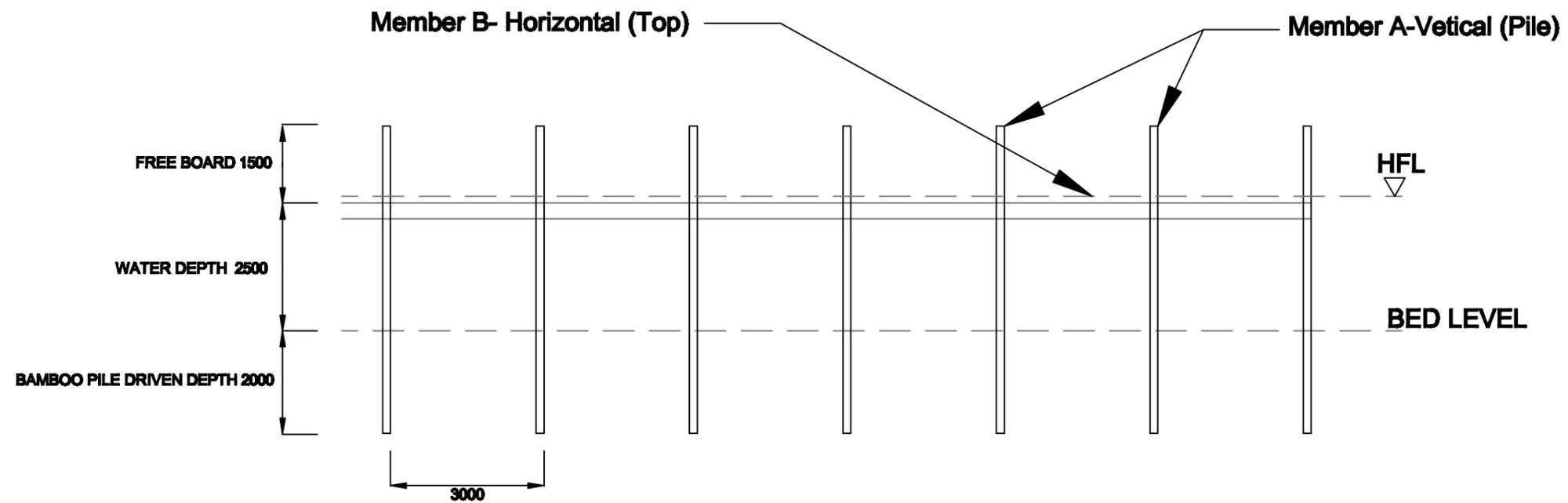
GENERAL ARRANGEMNT OF PEN CULTURE

**DRAWING No. :**

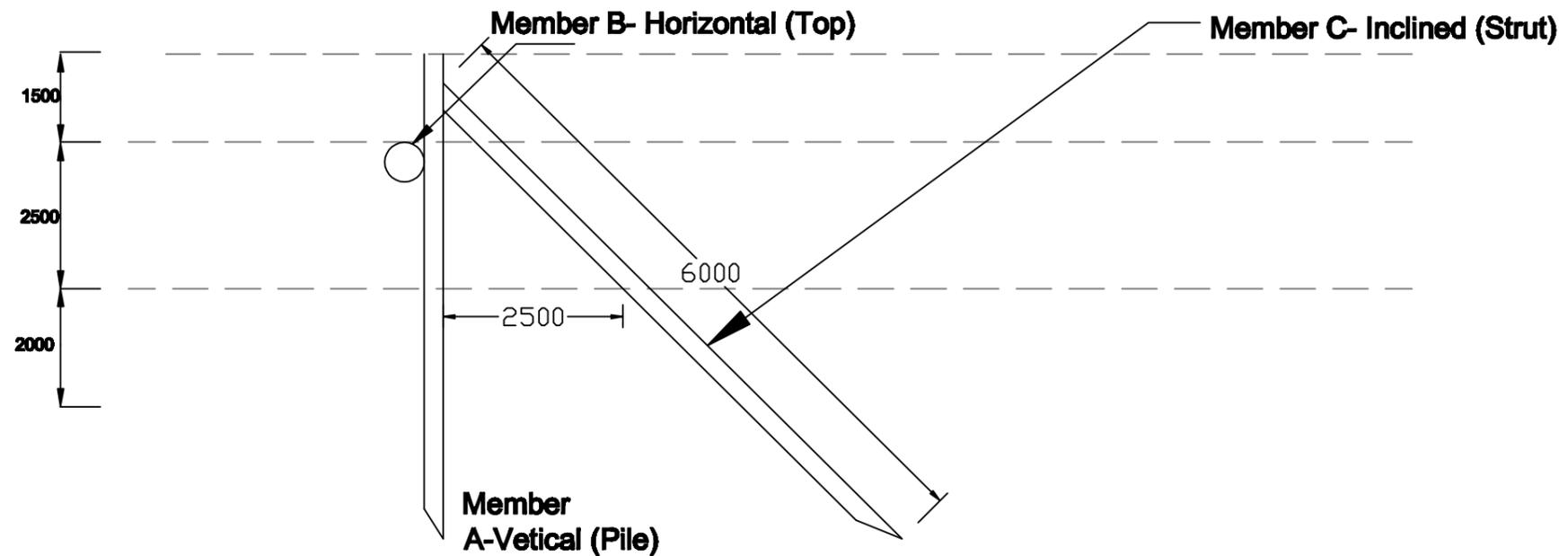
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KATAL / CATTLE FISHING STRUCTURE AT BEEL / WETLAND FISHERIES. (FRONT - ELEVATION)



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

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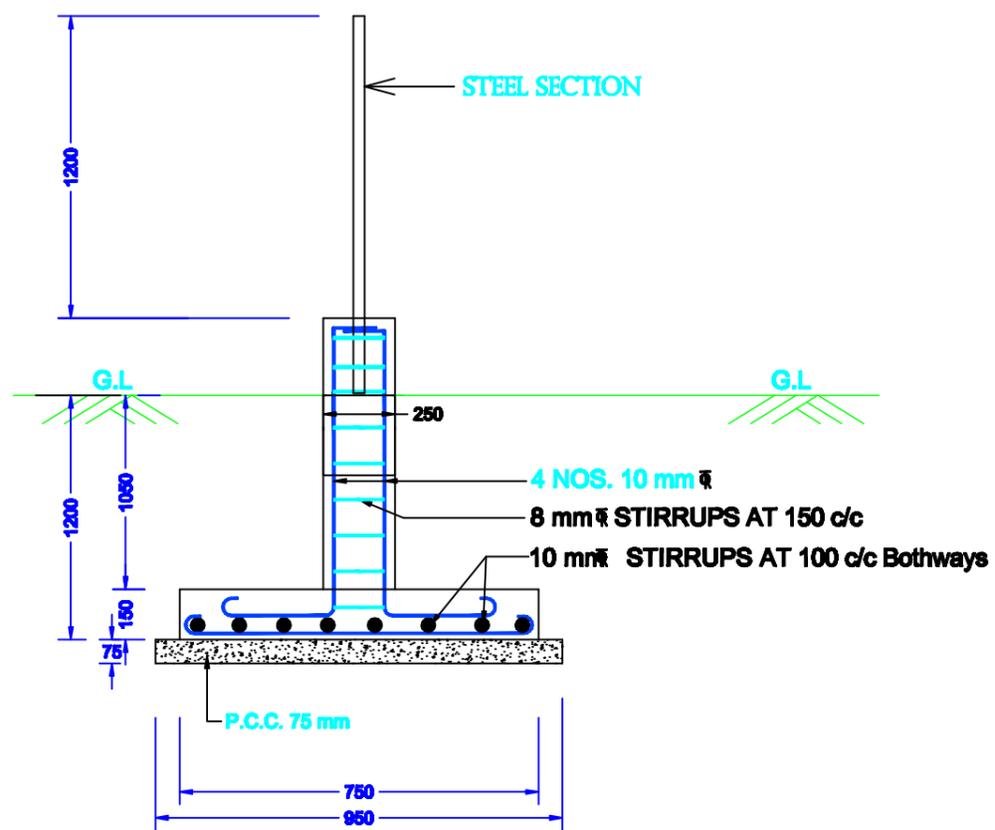
GENERAL ARRANGEMNT OF KATAL/JENG

DRAWING No. :

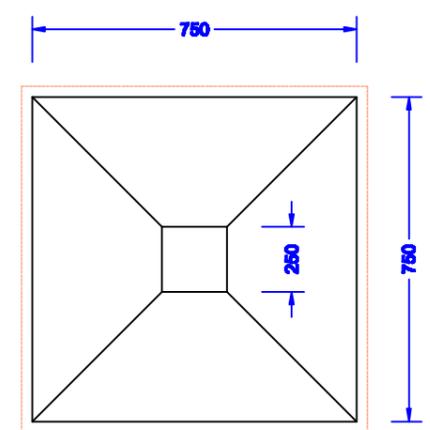
ASSAM/SWIFT/GR-07/SD/09

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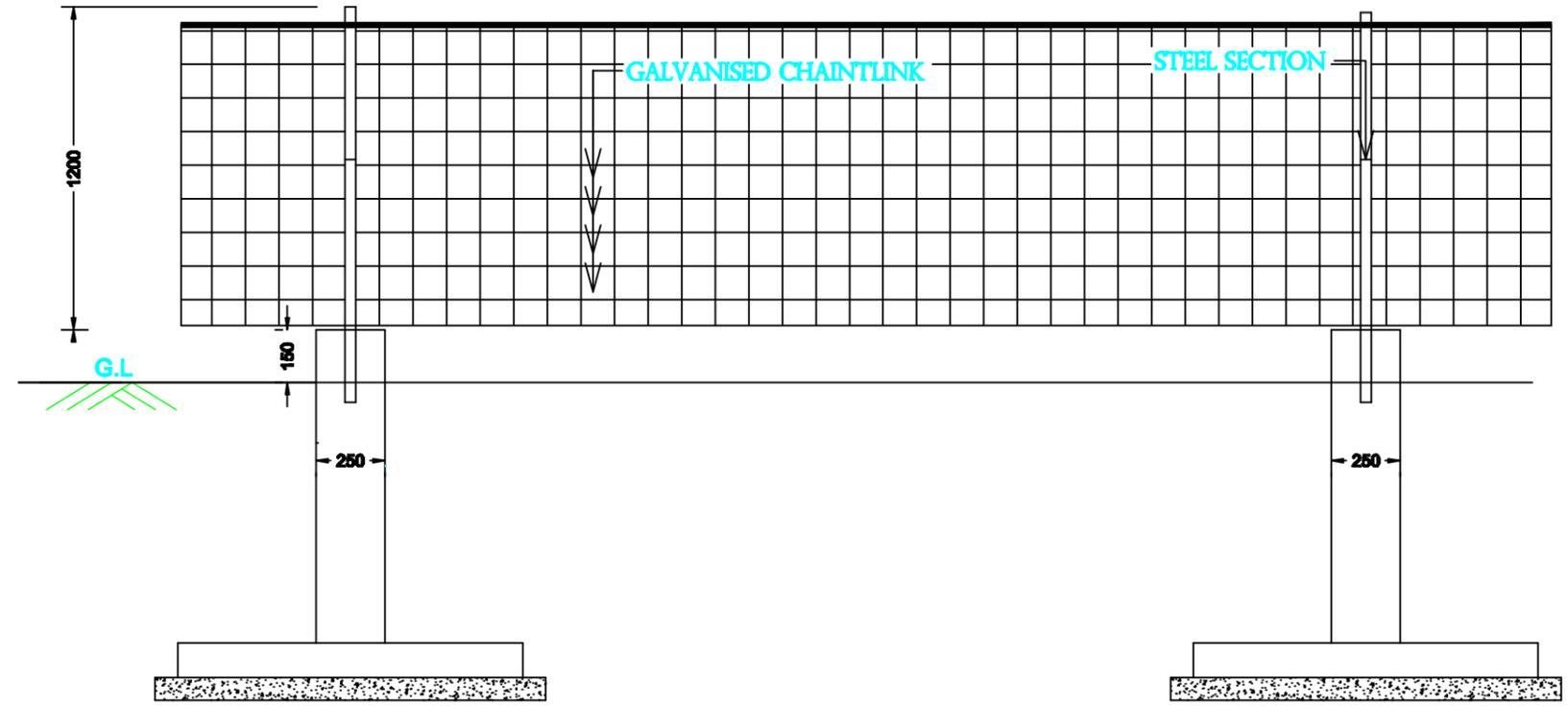
**ARIAS Society**  
**GOVERNMENT OF ASSAM**  
**Assam Rural Infrastructure**  
**Agricultural Service Society**



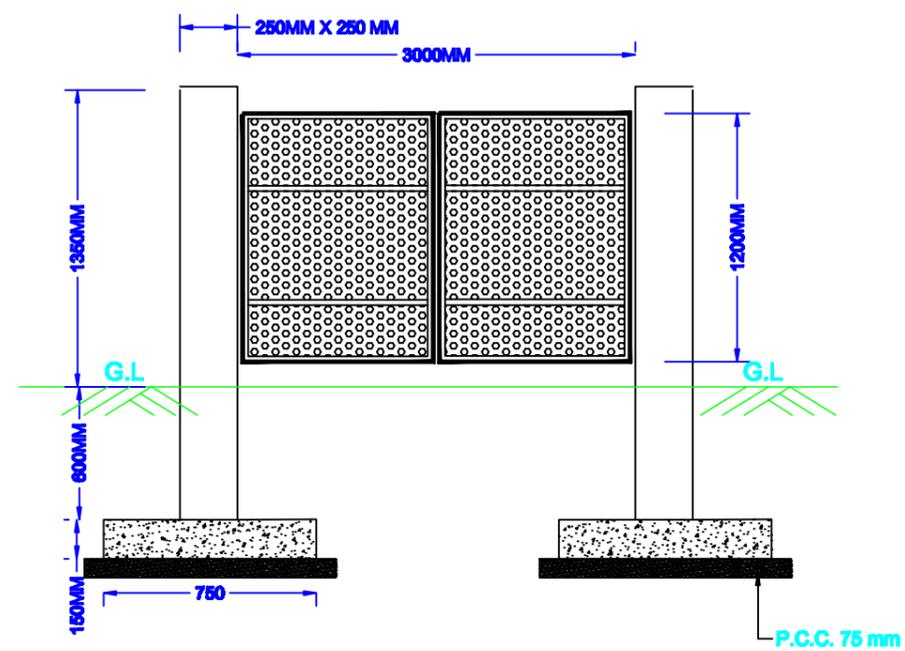
**DETAIL OF FOOTING & COLUMN**



**PLAN FOR FOUNDATION**



**ELEVATION OF FENCING**



**ELEVATION OF IRON GATE**

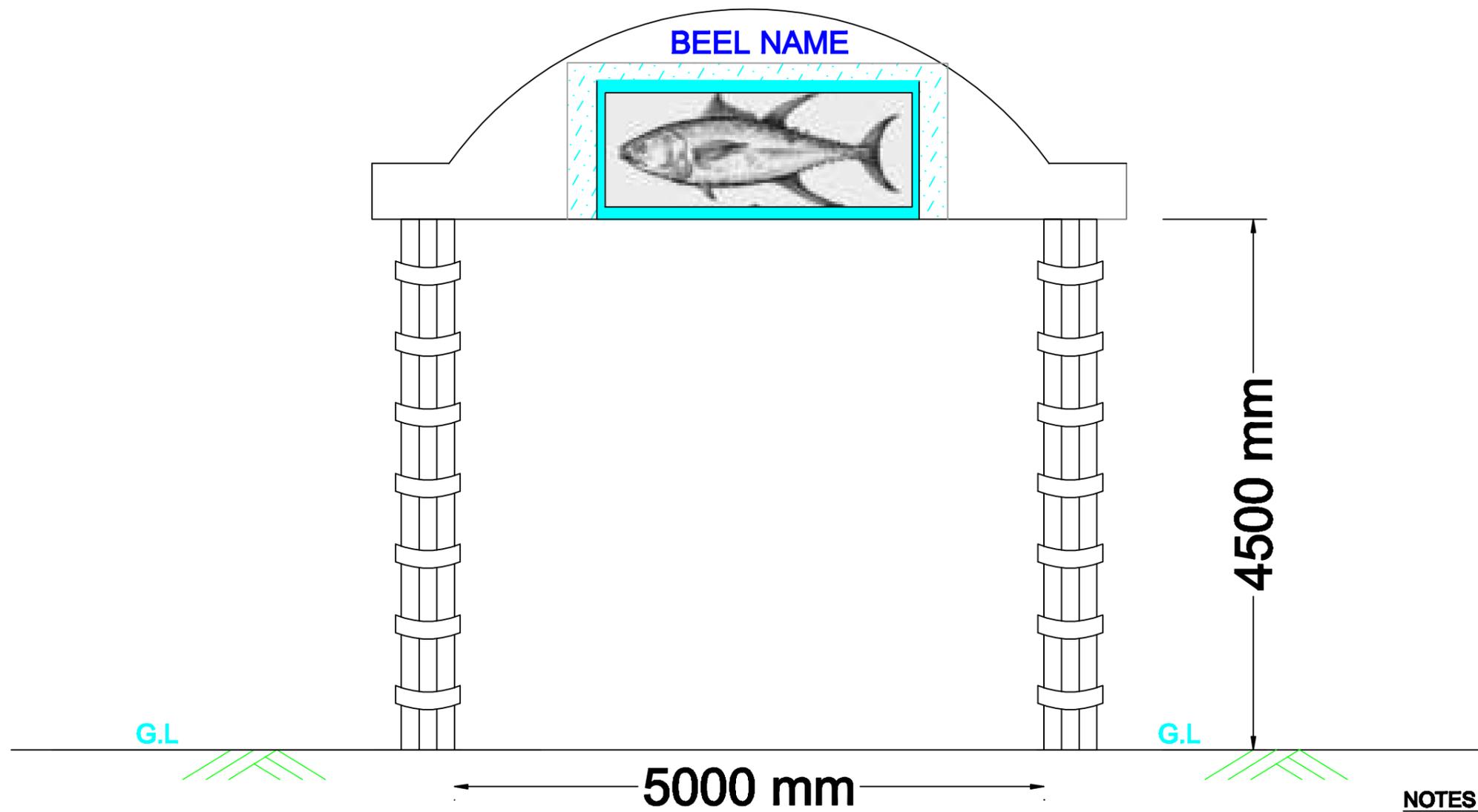
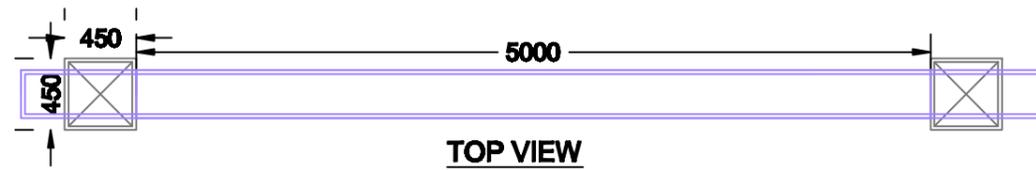
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**DRAWING :**  
**PLAN & CS OF FENCING WITH IRON GATE**

**DRAWING No. :**  
**ASSAM/SWIFT/GR-07/SD/10**

**NOT TO SCALE**

**ARIAS Society**  
**GOVERNMENT OF ASSAM**  
**Assam Rural Infrastructure**  
**Agricultural Service Society**



**ELEVATION  
ENTRY GATE**

**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 .

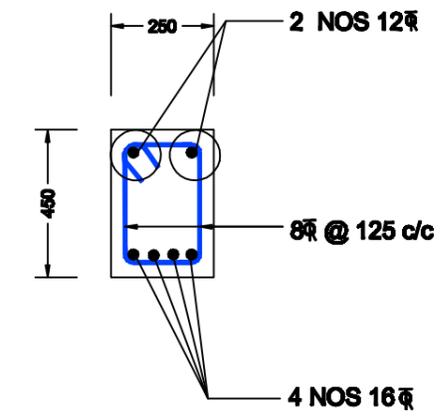
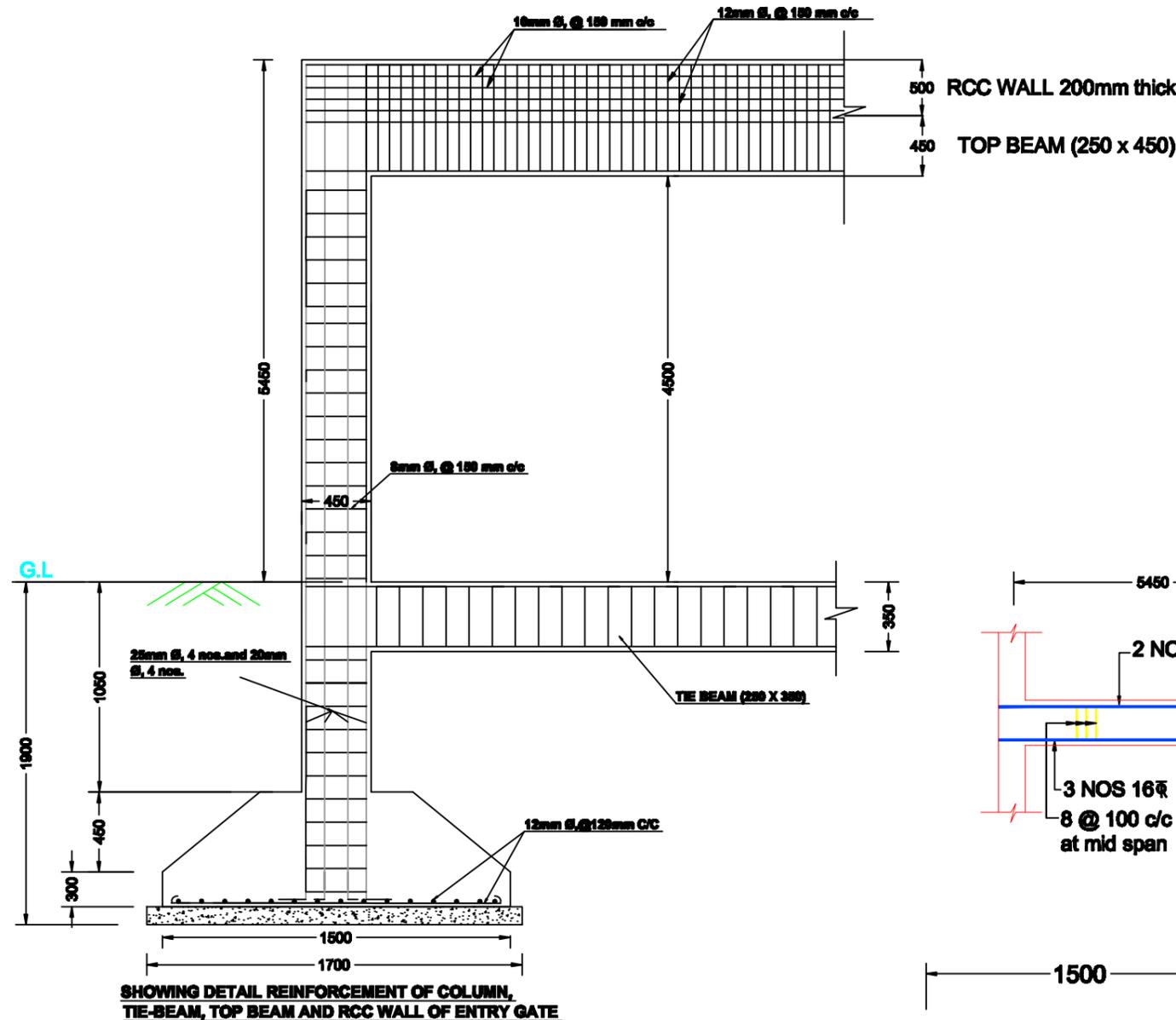
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**DRAWING :**  
**PLAN & ELEVATION OF  
 ENTRY GATE**

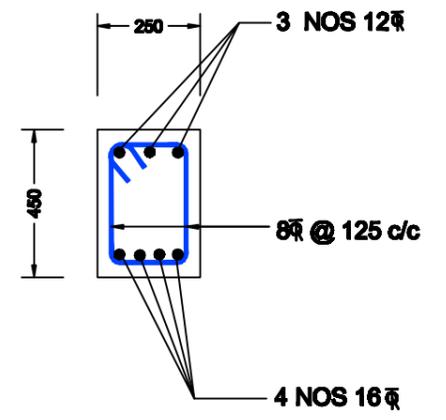
**DRAWING No. :**  
 ASSAM/SWIFT/GR-07/SD/11(A)

NOT TO SCALE

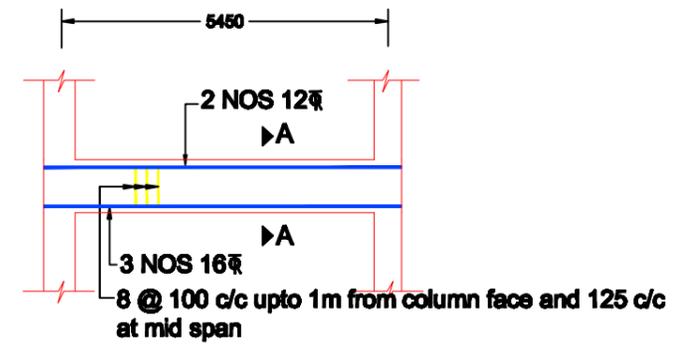
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**Assam Rural Infrastructure**  
**Agricultural Service Society**



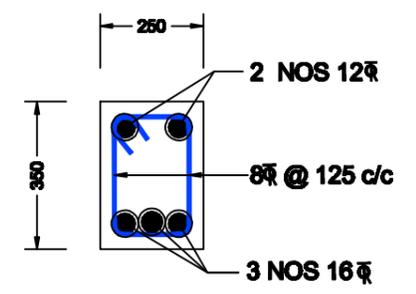
**SECTION AT MID SPAN FOR TOP BEAM**



**SECTIONS NEAR SUPPORT FOR TOP BEAM**

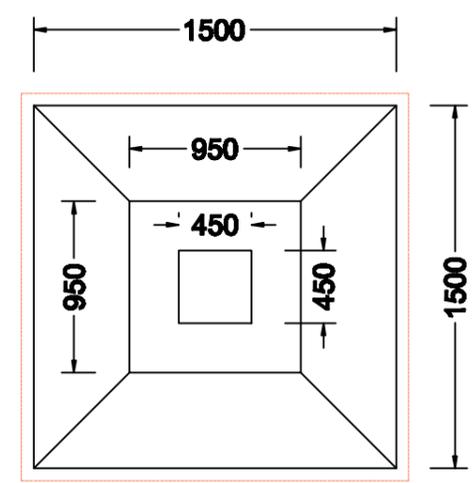


**DETAIL OF TIE BEAM**

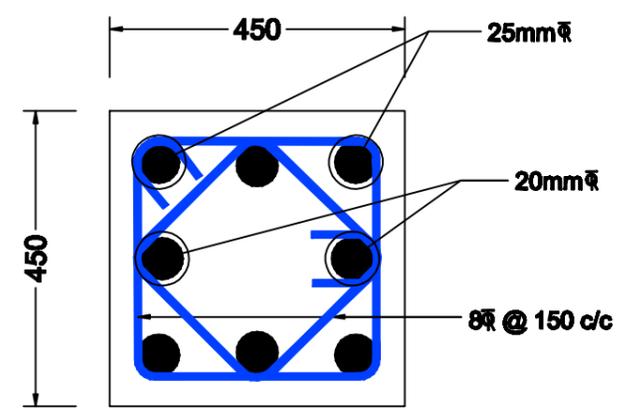


**SEC - AA**

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



**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

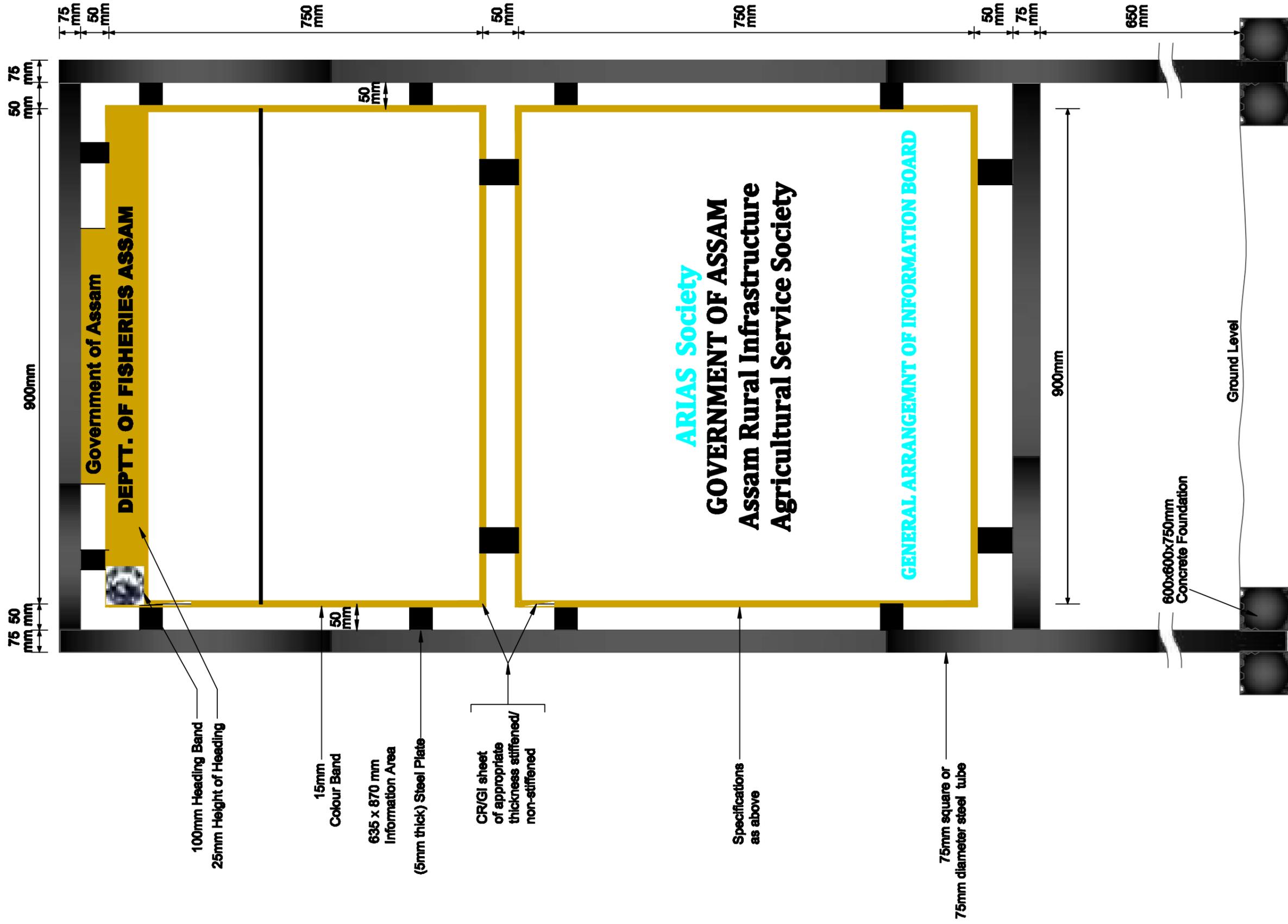
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**DRAWING :**  
**STRUCTURAL DETAILS OF ENTRY GATE**

**DRAWING No. :**  
 ASSAM/SWIFT/GR-07/SD/11(B)

NOT TO SCALE

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**Agricultural Service Society**



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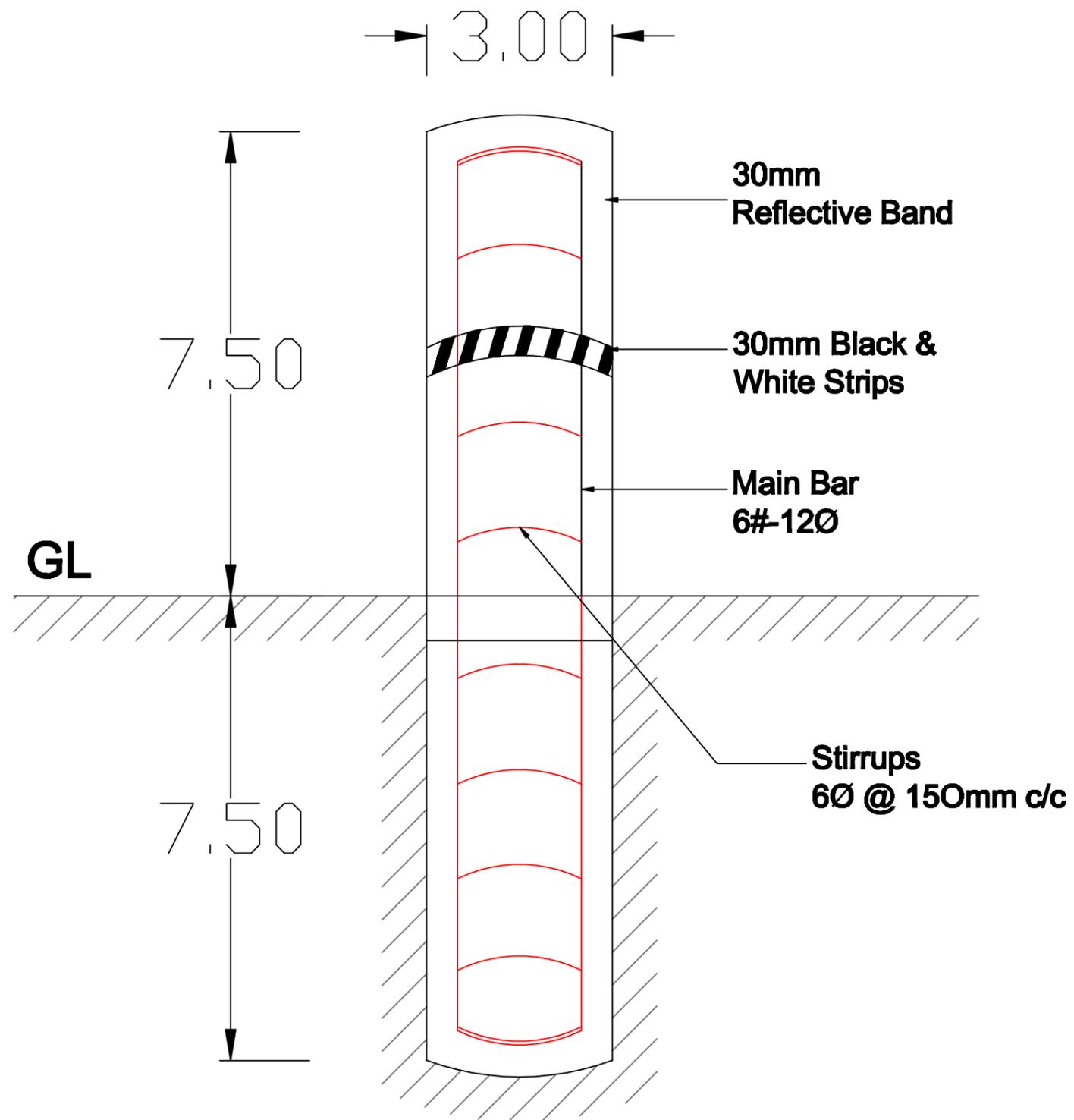
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**DRAWING:**  
 GENERAL ARRANGEMENT OF  
 INFORMATION BOARD

**DRAWING No.:**  
 ASSAM/SWIFT/GR-07/SD/12

NOT TO SCALE

**ARIAS Society**  
**GOVERNMENT OF ASSAM**  
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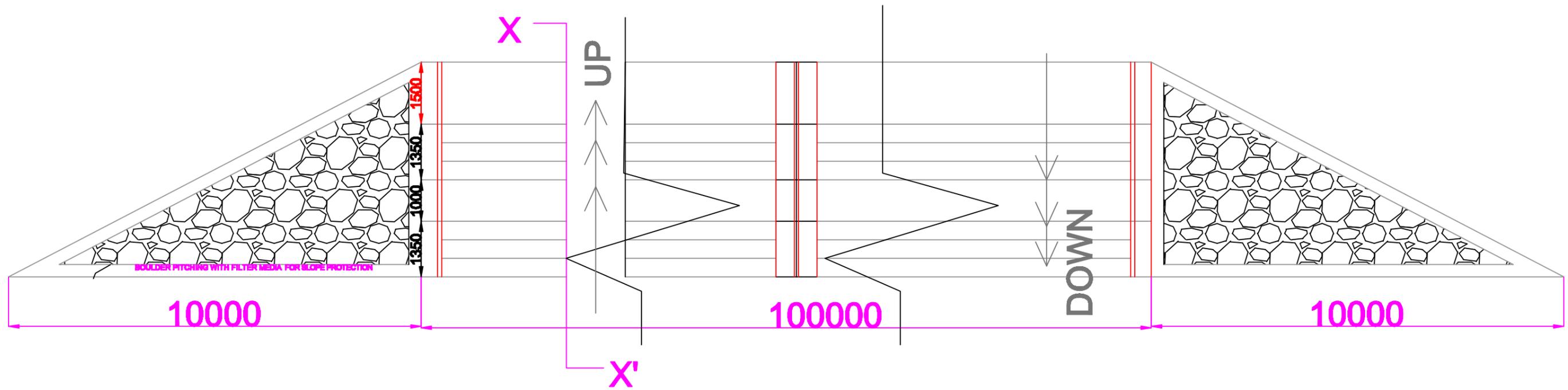
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**DRAWING :**  
GENERAL ARRANGEMNT OF DEMARCATION  
PILLAR

**DRAWING No. :**  
ASSAM/SWIFT/GR-07/SD/13

NOT TO SCALE

**ARIAS Society**  
**GOVERNMENT OF ASSAM**  
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**Agricultural Service Society**



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**DRAWING :**  
**GHAT OR STEPS**

**DRAWING No. :**  
**ASSAM/SWIFT/GR-07/SD/14**

**NOT TO SCALE**

**ARIAS Society**  
**GOVERNMENT OF ASSAM**  
**Assam Rural Infrastructure**  
**Agricultural Service Society**