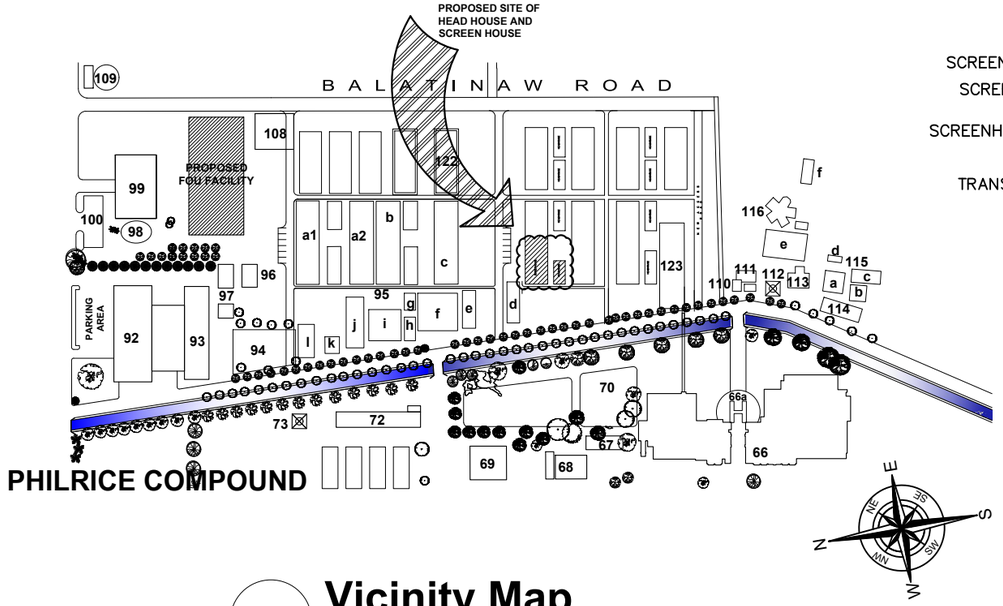
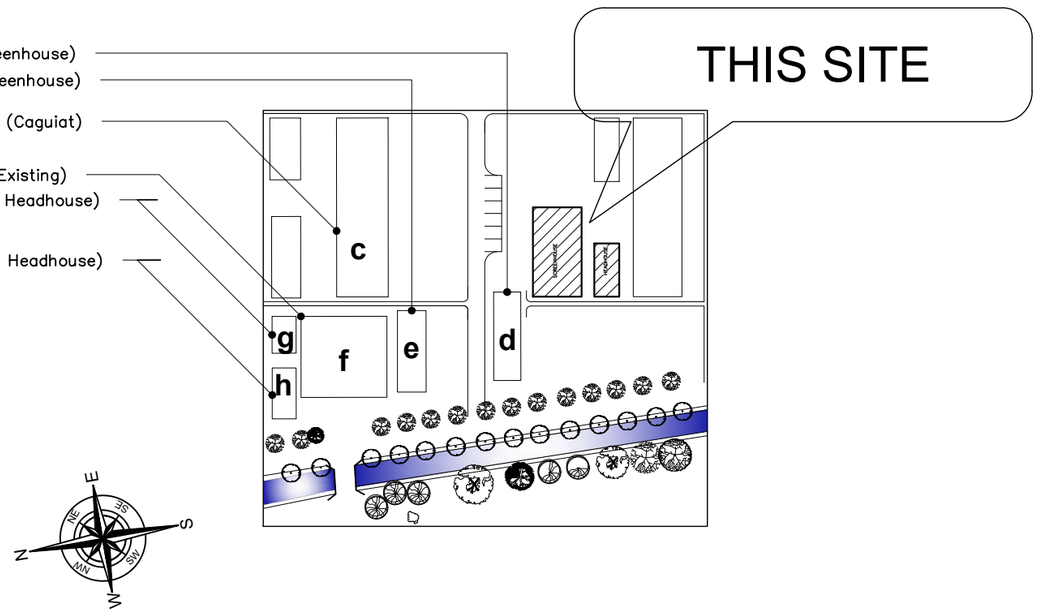
Perspective

drawn not to scale



Vicinity Map

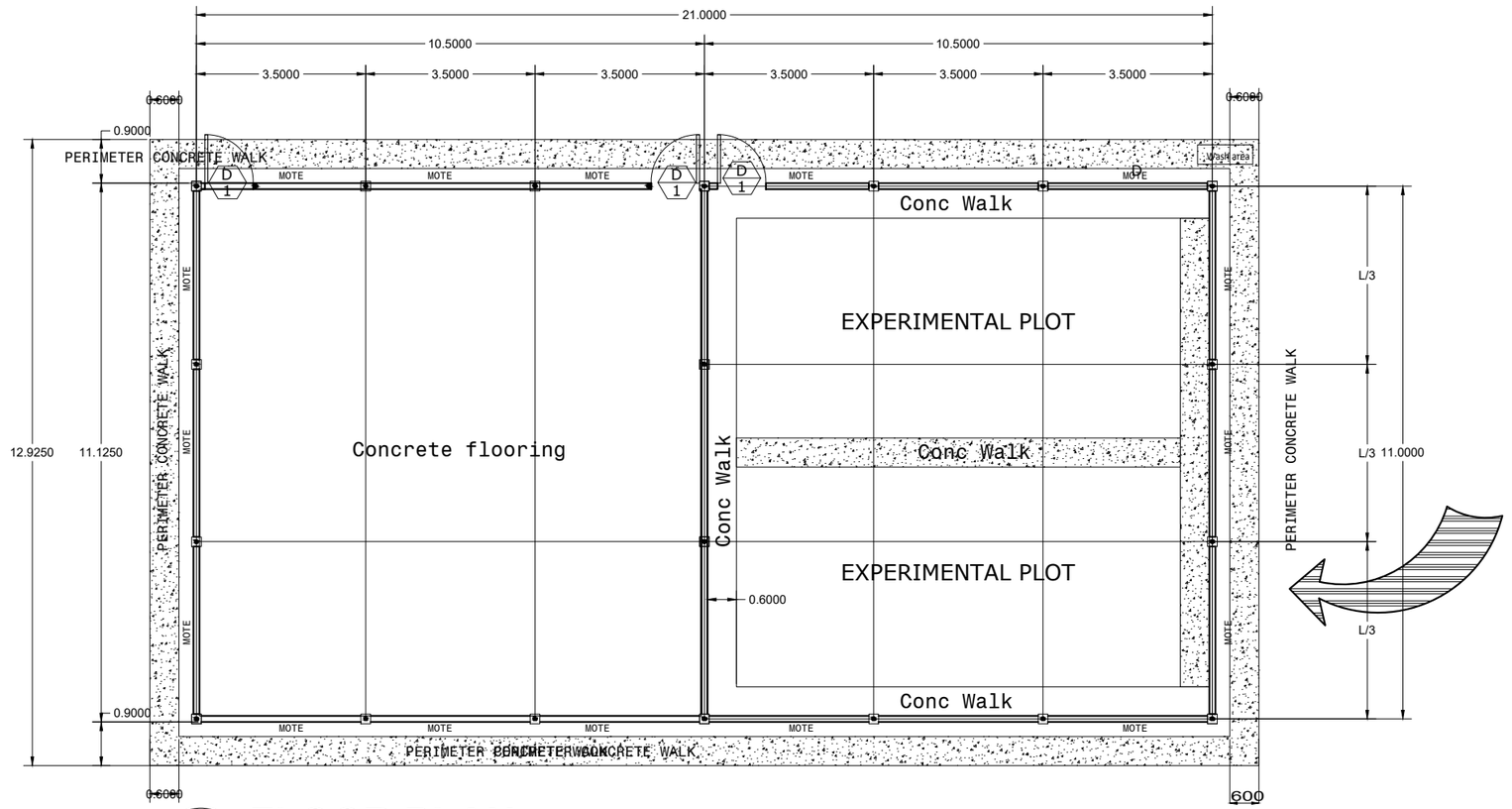
drawn not to scale



Site Development Plan

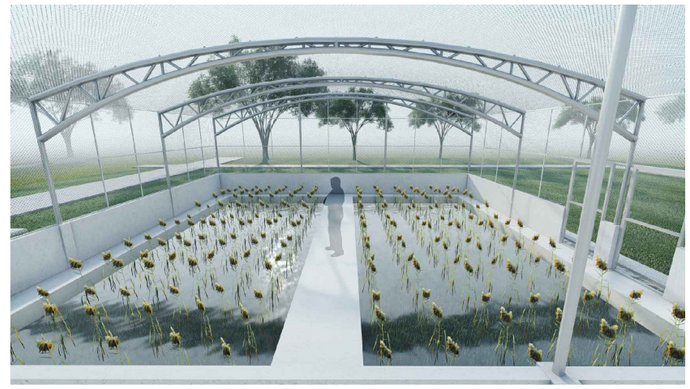
drawn not to scale

PHILRICE PHILIPPINE RICE RESEARCH INSTITUTE CENTRAL EXPERIMENT STATION MALIGAYA, MUÑOZ CITY, NUEVA ECIJA	R.A. 9266 - Art. 3, Section 20 DRAWINGS AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED, AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES AND DOCUMENTS OF THE ARCHITECT, WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE ARCHITECT OR AUTHOR OF SAID DOCUMENTS, TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPETITION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.	PROJECT: CONSTRUCTION HEADHOUSE AND SCREENHOUSE FOR ONE RICE PH. OF PHILRICE PHILRICE - CES MALIGAYA, SCIENCE CITY OF MUÑOZ, NUEVA ECIJA	PRODUCED BY: PHYSICAL PLANT DIVISION INFRASTRUCTURE UNIT PHILRICE-CES SCIENCE CITY OF MUÑOZ, NUEVA ECIJA	PREPARE BY: AR. RENATO B. BAJIT PPD DIVISION HEAD , PHILRICE-CES	END USER: DR. GENARO S. RILLON CHIEF SRS CPD, PHILRICE-CES	RECOMMENDING APPROVAL: ABNER T. MONTECALVO DED FOR ASF PHILRICE-CES	APPROVED: JOHN C. DE LEON EXECUTIVE DIRECTOR PHILRICE - CES	DESIGN BY : RBB DATE: CADD BY:DG & LJG DATE: CHECKED BY:	SHEET NUMBER: A1 01 17

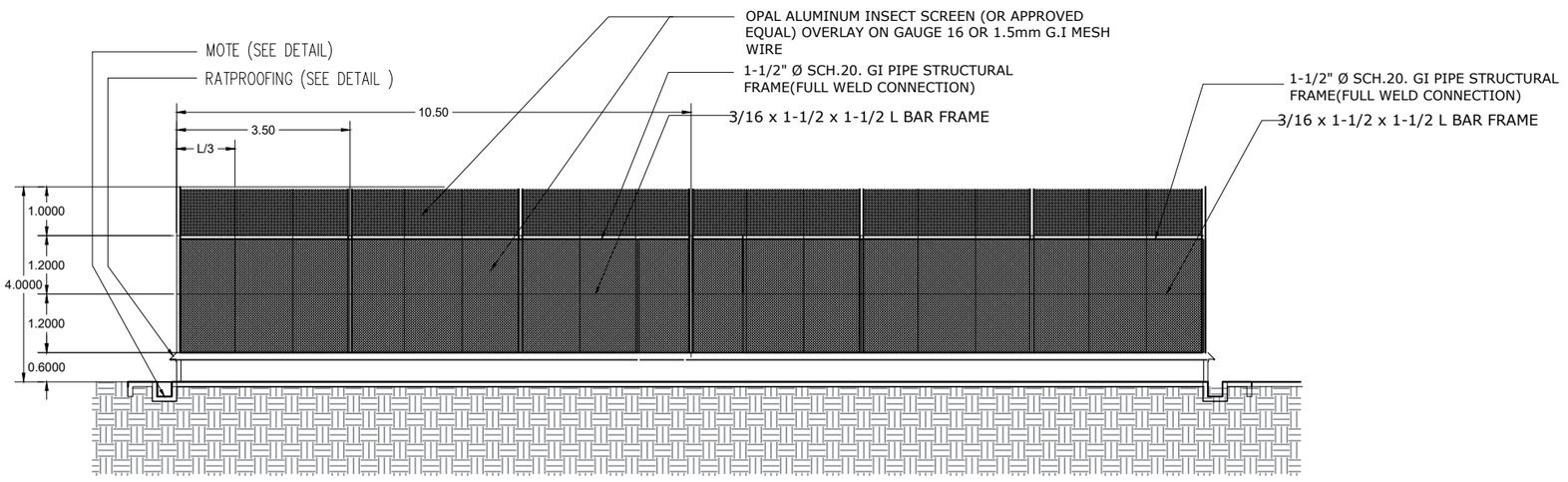


FLOOR PLAN

SCALE 1:150METERS



PERSPECTIVE OF EXPERIMENTAL PLOT



RIGHT SIDE ELEVATION

SCALE 1:150METERS

SCREENHOUSE

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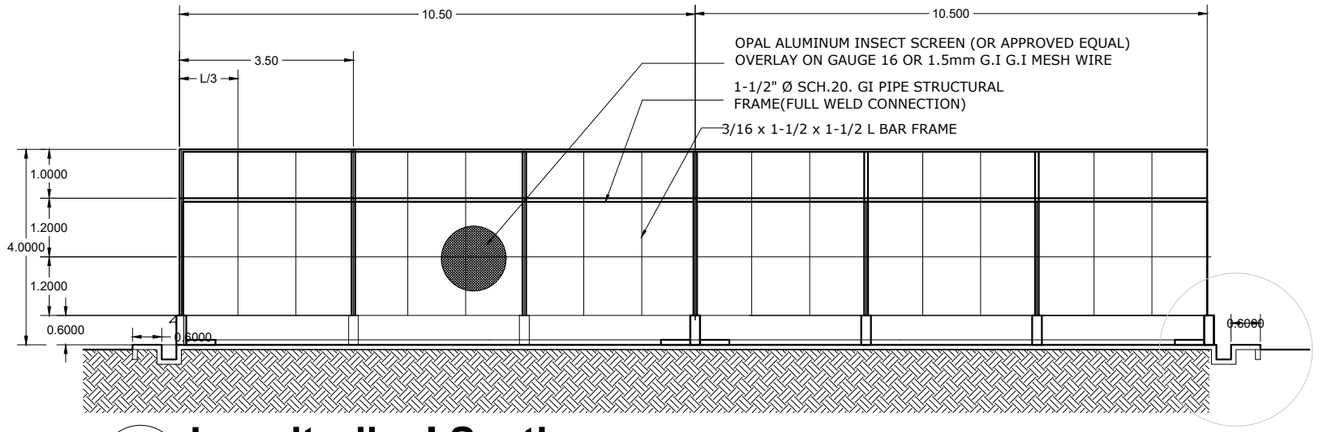
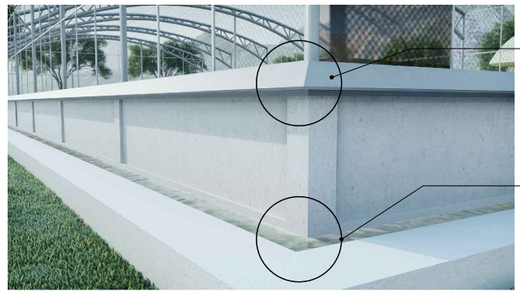
A2
02 | 17

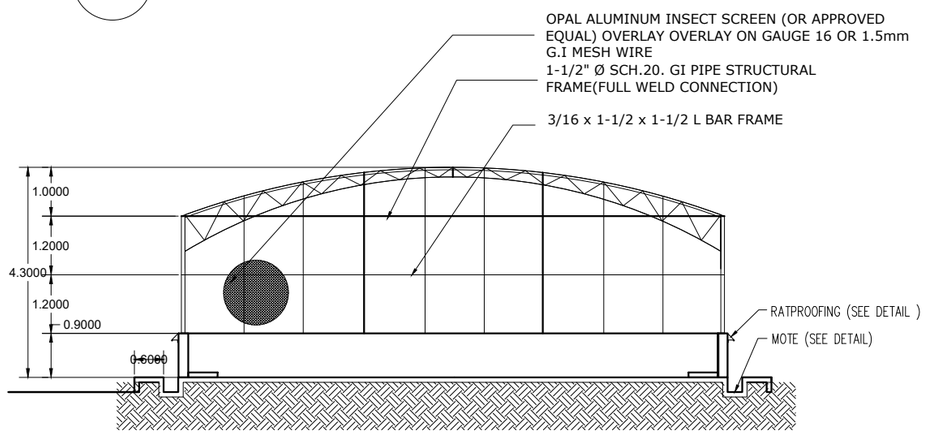


Longitudinal Section

SCALE 1:150METERS

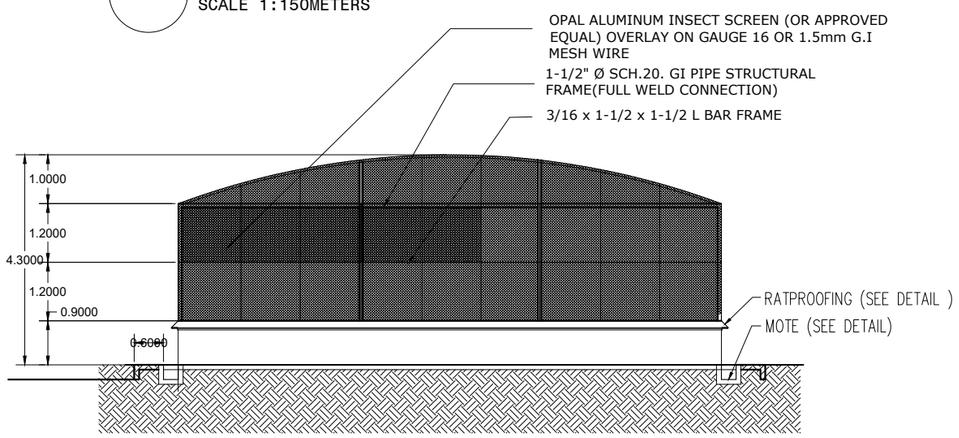


PERSPECTIVE



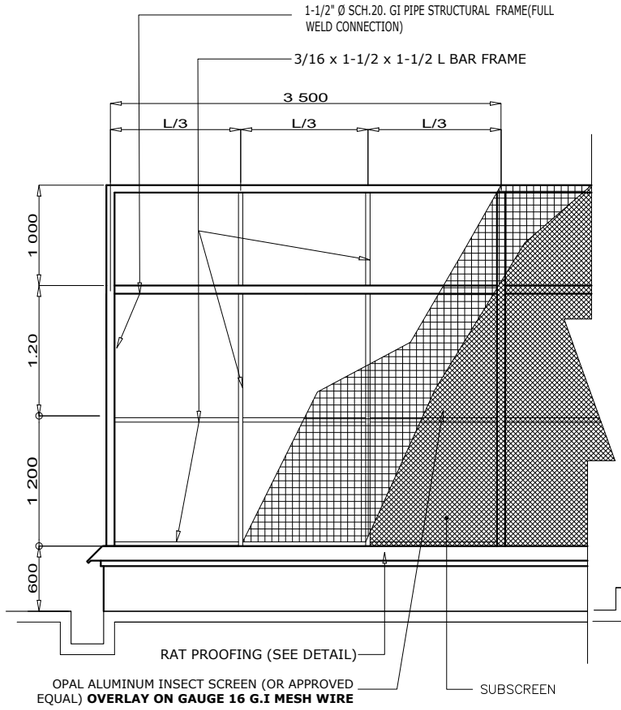
Cross Section

SCALE 1:150METERS

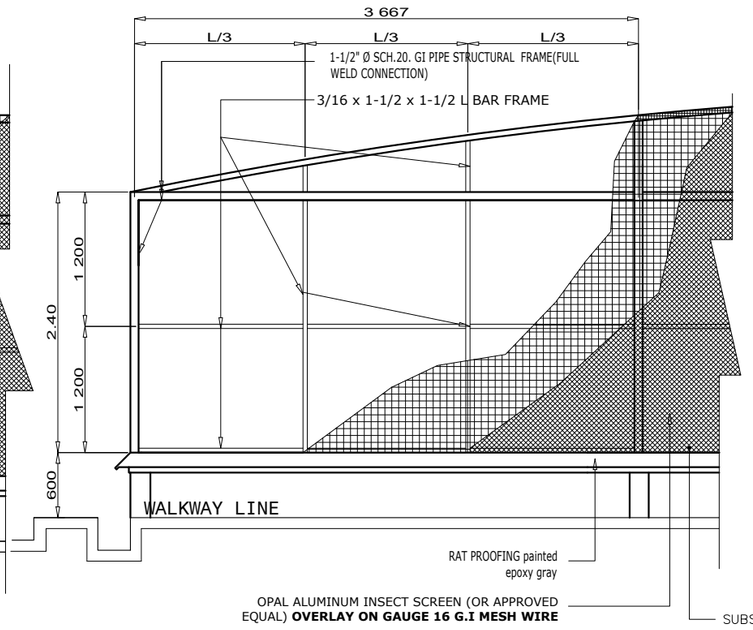


Front Elevation

SCALE 1:150METERS



FRONT ELEVATION



SIDE ELEVATION

Blow Up Detail

SCALE 1:75METERS

SCREENHOUSE

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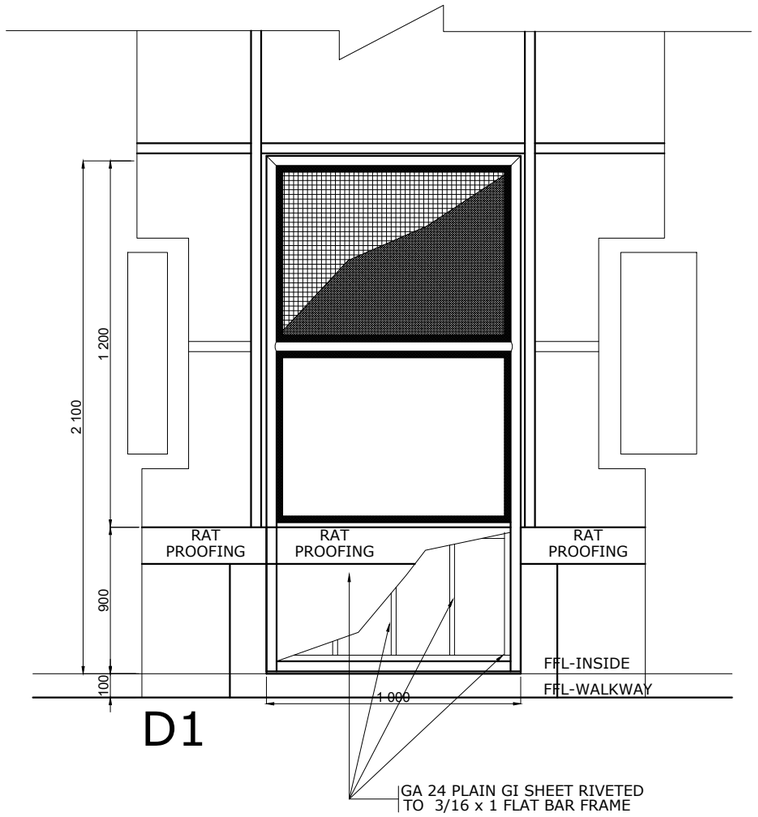
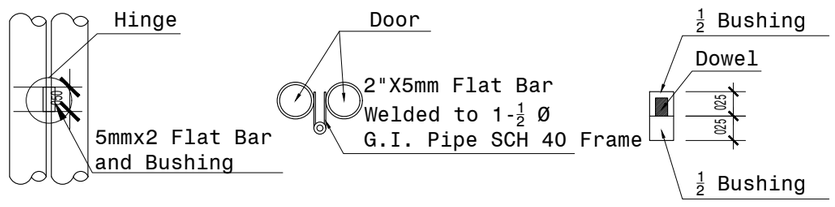


D1

DETAIL OF DOORS (Screen House)

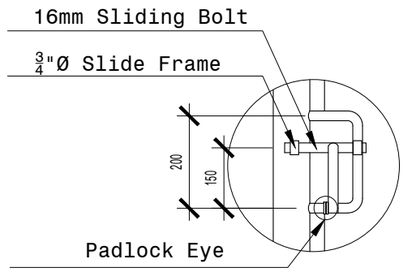
SCALE 1:20 MTS



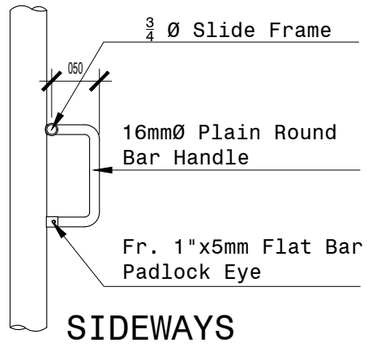
ELEVATION TOP FRONT

DETAIL OF HINGE CONNECTION TO POST

SCALE 1:10 MTS



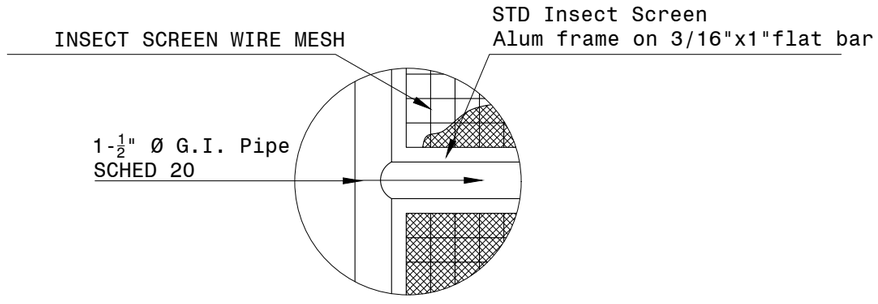
ELEVATION



SIDEWAYS

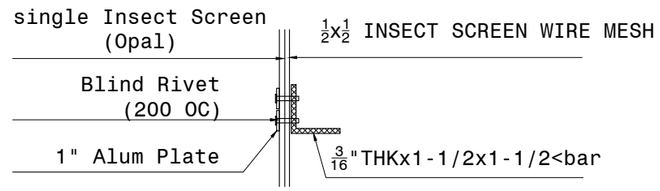
LOCK DETAIL

SCALE 1:10 MTS

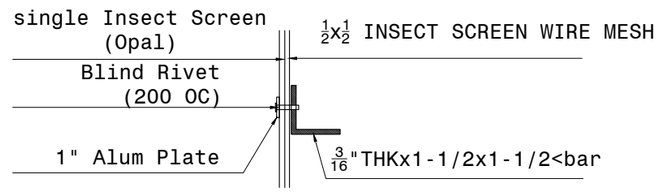


DETAIL @ DOOR FRAME

SCALE 1:10 MTS



DETAIL ON INSECT SCREEN CONNECTION(DOUBLE PLATE)



DETAIL OF SCREEN CONNECTION

SCALE 1:10 MTS

SCREENHOUSE

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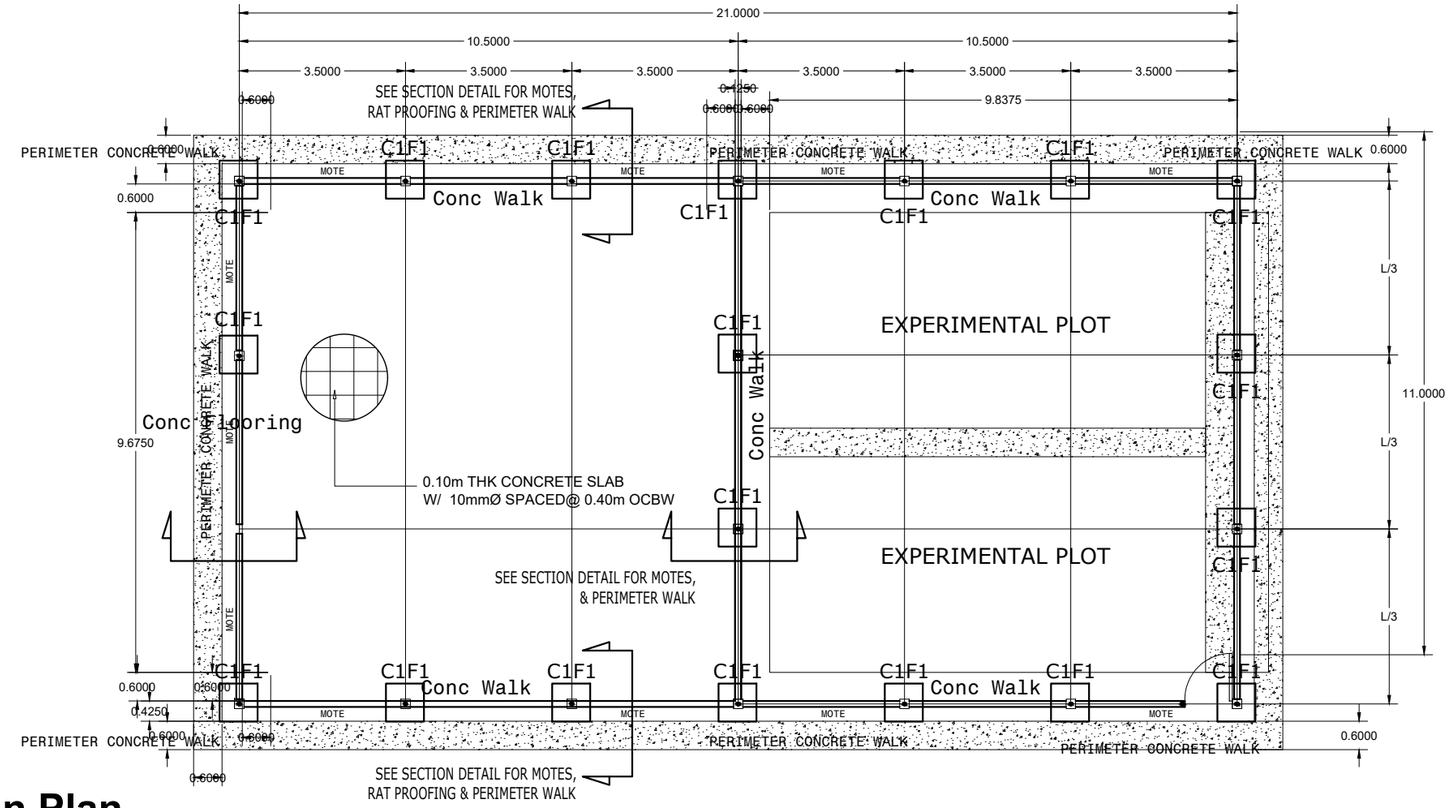
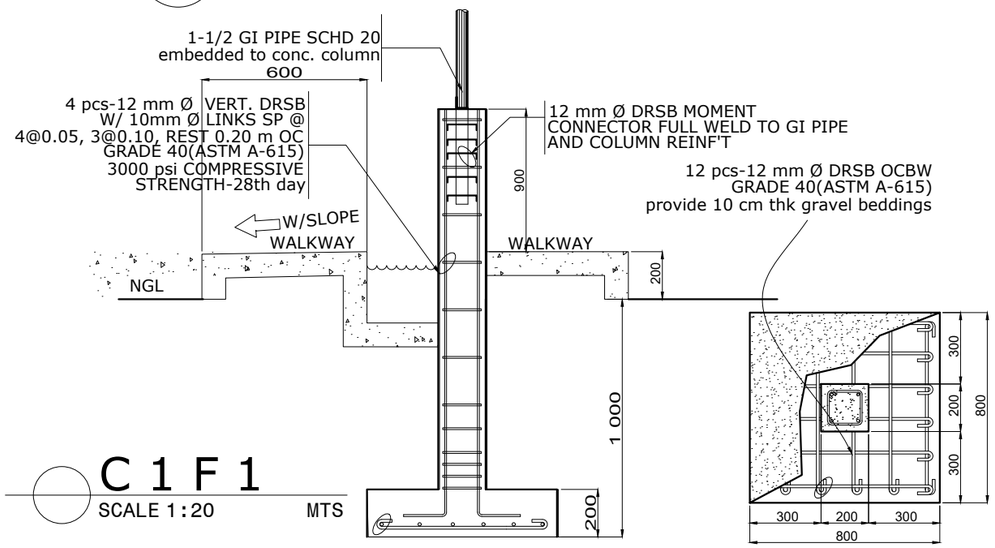


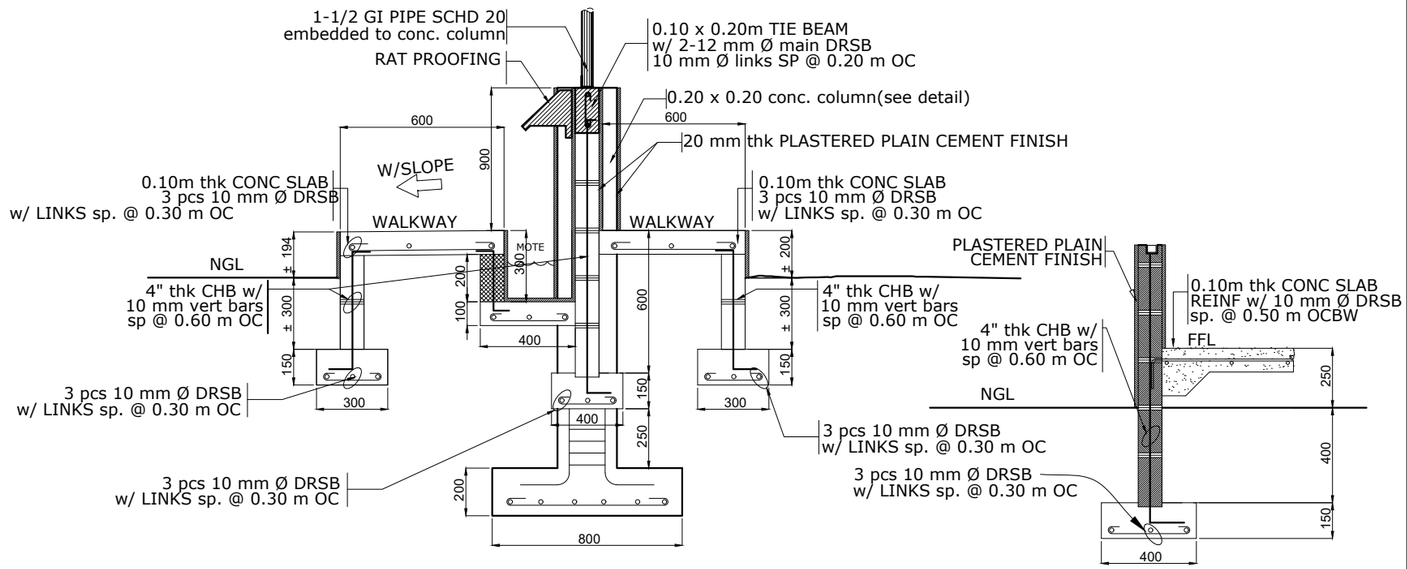
Foundation Plan

SCALE 1:150METERS



C 1 F 1

SCALE 1:20 MTS



DETAIL OF MOTE, RATPROOFING
AND PERIMETER WALK

SCALE 1:20 MTS

WALL FOOTING 1

SCALE 1:20 MTS

SCREENHOUSE

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CE-II, PHILRICE-CES

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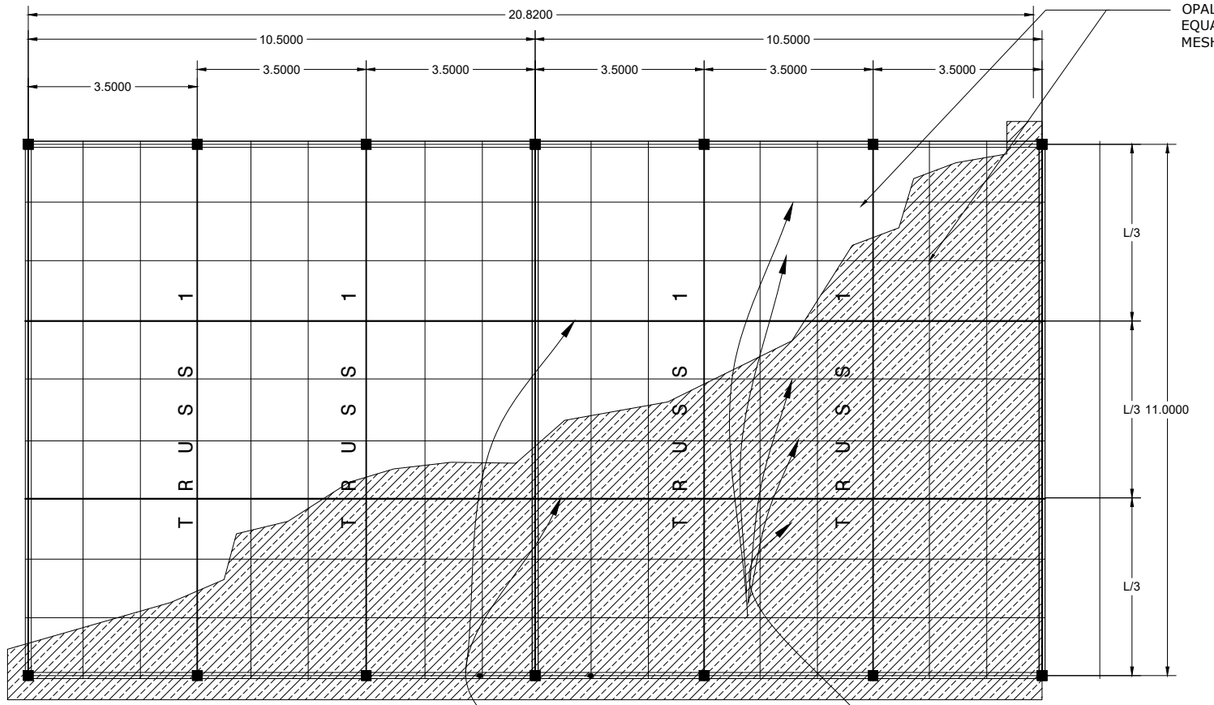
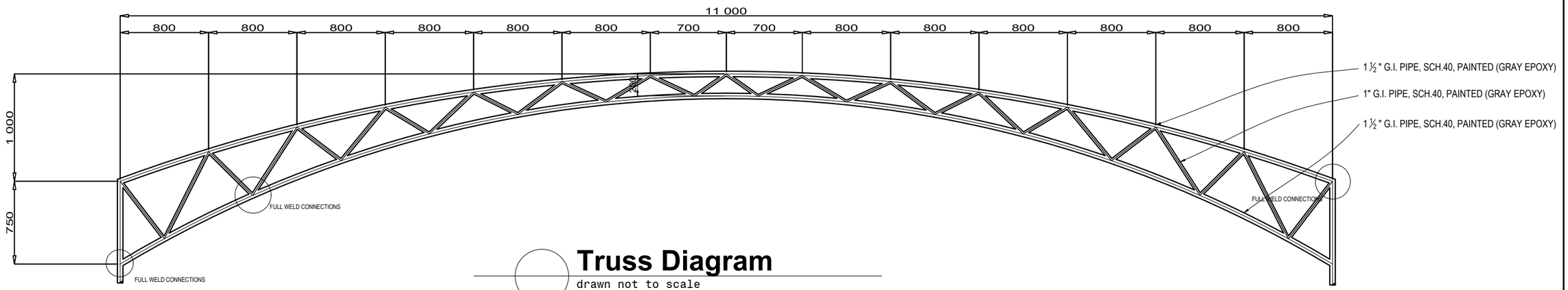
S1
05 17



Roof Framing Plan

SCALE 1:150METERS



Truss Diagram

drawn not to scale

SCREENHOUSE

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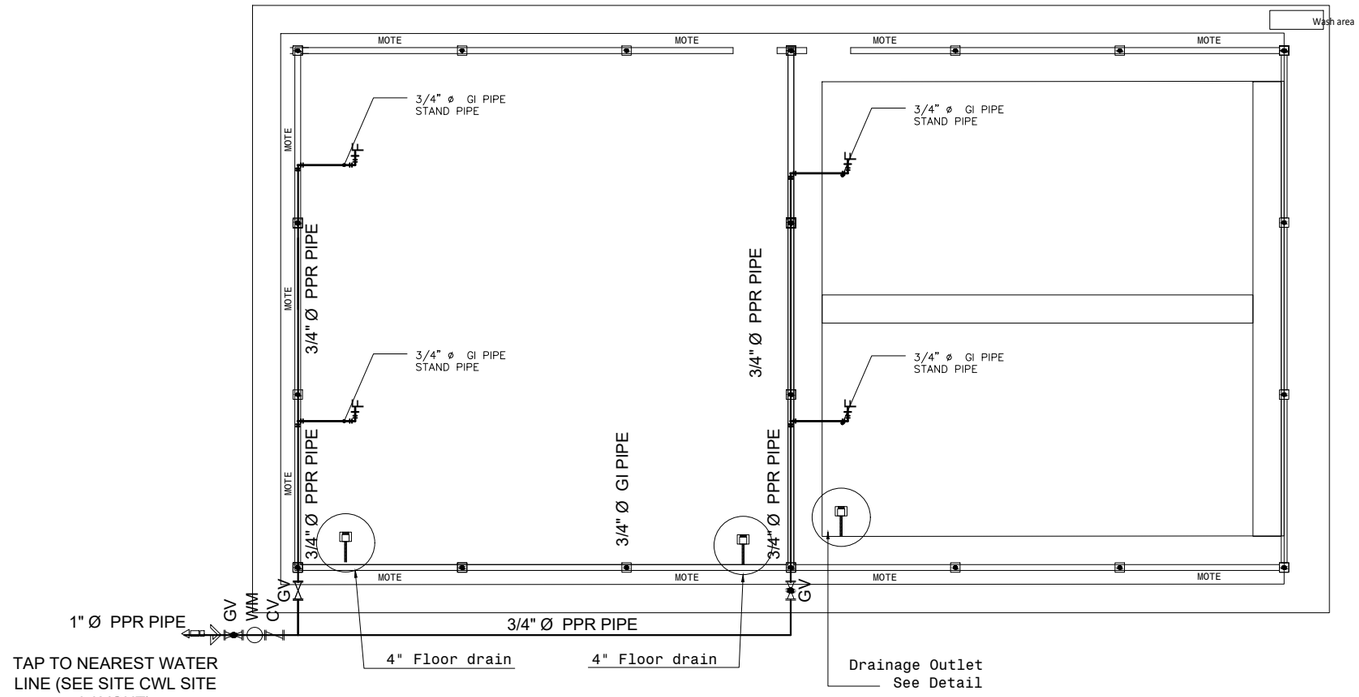
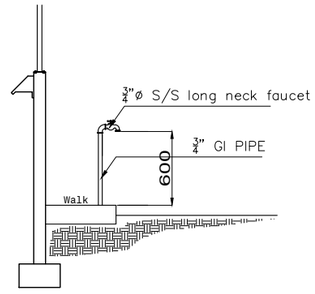


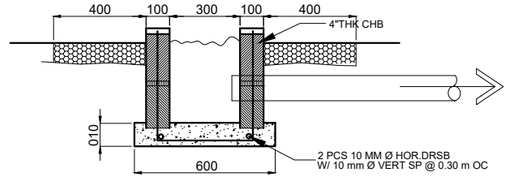
COLD WATER LAYOUT

SCALE 1:150METERS

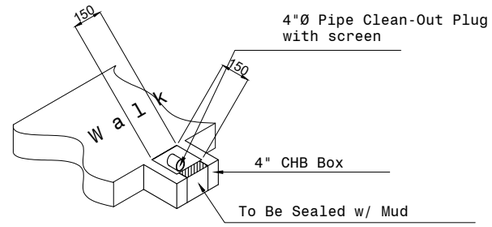


DETAIL OF FAUCET @ PLOT

SCALE 1:20



DETAIL OF OPEN DRAIN CANAL



DETAIL OF INLET/DRAINAGE

SCALE 1:20 MTS

SCREENHOUSE

PLUMBING NOTES

1. ALL MATERIALS, FIXTURES & EQUIPMENT TO BE USED IN THE PLUMBING INSTALLATION SHALL BE NEW, OF THE APPROVED TYPE & SIZE AS TO ITS INTENDED USAGE.
2. ALL INSTALLATION SHALL BE IN CONFORMANCE WITH THE PLUMBING CODE OF THE PHILIPPINES, ITS RULES & REGULATIONS.
3. DRAINAGE PIPING SHALL BE PROVIDED WITH APPROVED INLET FITTINGS FOR FIXTURE CONNECTIONS, CORRECTLY LOCATED ACCORDING TO THE SIZE & TYPE OF FIXTURE PROPOSED TO BE
4. CHANGE IN DIRECTION OF DRAINAGE PIPING SHALL BE MADE WITH APPROPRIATE USE OF APPROVED FITTINGS & SHALL BE OF THE ANGLES REPRESENTED BY A 1/16 BEND, 1/8 BEND, 1/6 BEND OR OTHER APPROVED FITTINGS OR EQUIVALENT SWEEP.
5. PROVIDE CLEAN OUT FOR EACH CHANGE IN DIRECTION IF THE TOTAL AGGREGATE CHANGE EXCEEDS 135 DEGREES.
6. EACH CLEAN OUT SHALL BE INSTALLED SO THAT IT OPENS IN A DIRECTION OPPOSITE TO THE FLOW OF SOIL OR WASTE OR AT RIGHT ANGLES THERETO. ADDITIONAL CLEAN OUTS SHALL BE INSTALLED AT INTERVALS NOT TO EXCEED 100 FT (30.5 m.) IN STRAIGHT RUNS.
7. HORIZONTAL DRAINAGE PIPING SHALL RUN IN PRACTICAL ALIGNMENT & A UNIFORM SLOPE OF NOT LESS THAN 1/4 OF AN INCH PER FOOT (20.8 mm/mt.) OR 2% TOWARD THE POINT OF DISPOSAL.
8. UNLESS PROHIBITED BY STRUCTURAL CONDITIONS, EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN 6" (152.4 mm) ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY.
9. EACH VENT PIPE OR STACK SHALL EXTEND THROUGH ITS FLASHING & SHALL TERMINATE VERTICALLY NOT LESS THAN 6" (152.4 mm) ABOVE THE ROOF & ONE FOOT (0.30 m.) FROM ANY VERTICAL SURFACE.
10. PIPING SHALL BE LAID ON A FIRM BED THROUGHOUT ITS ENTIRE LENGTH. IF ANY SUCH PIPING IS LAID IN MADE OR FILLED GROUND, IT SHALL BE LAID ON A BED OF APPROVED MATERIALS & SHALL BE ADEQUATELY SUPPORTED.

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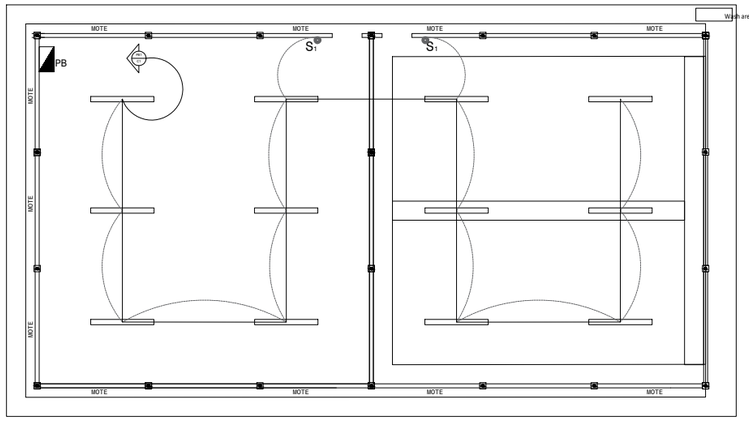
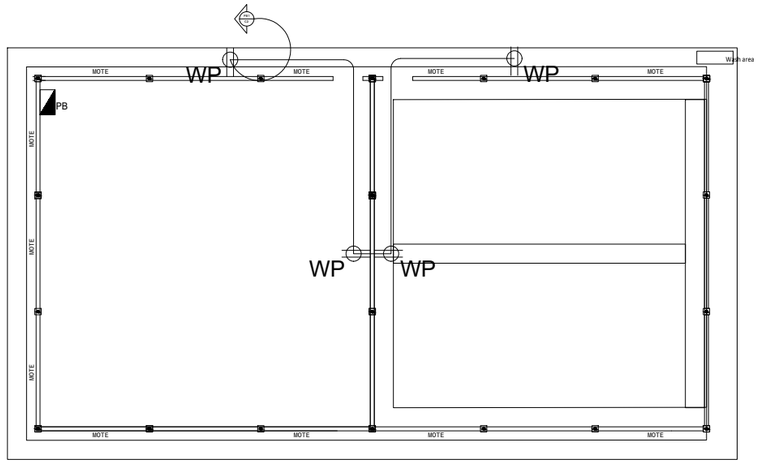


LIGHTING LAYOUT
SCALE 1:150METERS



POWER LAYOUT
SCALE 1:150METERS

LED LIGHT
LED LUMINAIRE
DUPLEX CONV OUTLET
WP — WEATHER PROOF DUPLEX CONV OU
SA — SINGLE GANG SWITCH
SAB — TWO GANG SWITCH
ACUO — AIRCON UNIT OUTLET
EMERGENCY LIGHT
FIRE EXTINGUISHER
PANEL BOARD

6 / E1 LEGEND
SCALE NTS

Load Computation

screenhouse

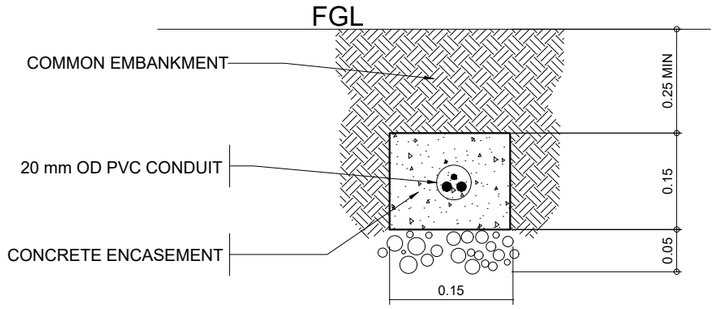
PANEL BOARD 1

CKT NO.	LOAD DESCRIPTION	VOLTS	TOTAL VA	AMP/CKT	CKT PROTECTION		SIZE OF WIRE		CONDUIT SIZE	
					AT	AF	TYPE	mm	TYPE	mm
1	12 LIGHTING OUTLET	230	1200	5.22	15	50	THHN	2 - 2.0	PVC/EMT	20
2	4 CONVENIENCE OTULET	230	1440	6.26	20	50	THHN	2 - 3.5	PVC/EMT	20
				11.48						

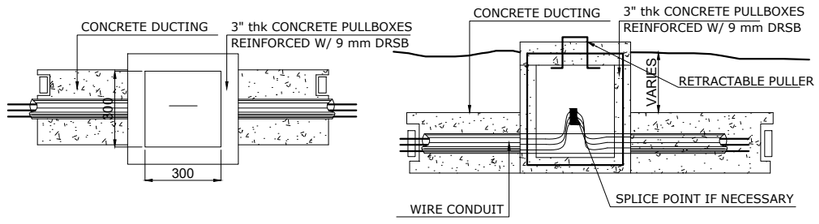
Line Current = 11.48 A

For Feeder Conductor = 1.25 x 11.48 A = 14.35
Use 2 - 5.5 mm THHN cu.wire in 25mm ø PVC Pipe

For Feeder Protection
Use 30AT 50AF SINGLE PHASE 230V 60Hz MCCB,
BOLT TYPE THERMAL MAGNETIC IN NEMA 3R ENCLOSURE, GAUGE #16



DETAIL OF UNDERGROUND WIRING & CONCRETE DUCTING
SCALE 1:10 MTS.



DETAIL OF CONCRETE PULLBOX

GENERAL NOTES :

ALL ELECTRICAL INSTALLATION SHALL BE DONE IN WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (P.E.C.) NATIONAL BUILDING CODE OF THE PHILIPPINES AND THE REQUIREMENT OF THE POWER COMPANY.

GROUNDING SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE. ALL NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT FRAMES OR ENCLOSURES SHALL BE CONNECTED TO EQUIPMENT GROUNDING SYSTEM WIRE WITH SOFT DRAWN COPPER WIRE & SUITABLE TERMINAL LUGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO ENSURE THE INSTALLATION OF ALL WORKS WITHIN THE AVAILABLE SPACE. MINIMUM SIZE OF WIRE TO BE USED SHALL BE 2.0mm2 FOR LIGHTING AND 3.5mm2 FOR POWER.

LAYOUT SHOWN ON THE PLANS ARE DIAGRAMATIC AND SHALL WHEN NECESSARY BE ALTERED IN THE FIELD TO SUIT CONDITIONS AND LOCATION.

PULL BOXES SHALL BE PROVIDED WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THESE ARE NOT INDICATED ON THE PLANS.

ALL ELECTRICAL MATERIALS TO BE USED SHALL BE NEW AND THE APPROVED TYPE FOR THE LOCATION AND PURPOSES.

ALL WORKS SHALL BE DONE BY EXPERIENCED ELECTRICIANS AND UNDER THE SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER.

CONDUCT INSULATION TEST ON ALL WIRINGS, FIXTURES AND DEVICES INSTALLED AND COMPLETED BEFORE APPLYING POWER, SUBMIT RECORDED MEASUREMENTS OF INSULATION TEST PER SERVICE ENTRANCE, FEEDERS AND AND BRANCH CIRCUIT TESTED.

WIRING SHALL BE STANDARD COPPER BUILDING WIRE NOTED 600V, THE CORE AREA AND TYPE OF INSULATION ARE NOTED ELSE WHERE IN THE DRAWINGS

WIRINGS SHALL BE INSTALLED INSIDE THE PVC CONDUIT PIPE TUBING, EMBEDDED INSIDE A CONCRETE FLOORS, COLUMNS, BEAMS, CHB WALLS, PARTITIONS, AND CONCEILED INSIDE A CEILING SPACES

REFER TO ELECTRICAL SPECIFICATIONS FOR SPECIFIC INFORMATIONS.

SCREENHOUSE

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CONSTRUCTION HEADHOUSE AND SCREENHOUSE FOR ONE RICE PH. OF PHILRICE
PHILRICE - CES
MALIGAYA, SCIENCE CITY OF MUÑOZ, NUEVA ECIJA

PRODUCED BY:
PHYSICAL PLANT DIVISION
INFRASTRUCTURE UNIT
PHILRICE-CES
SCIENCE CITY OF MUÑOZ, NUEVA ECIJA

PREPARE BY:
JOY R. ANTONIO
ELECTRICAL ENGINEER ,
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END USER:
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CHIEF SRS CPD, PHILRICE-CES

RECOMMENDING APPROVAL:
ABNER T. MONTECALVO
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APPROVED:
JOHN C. DE LEON
EXECUTIVE DIRECTOR
PHILRICE - CES

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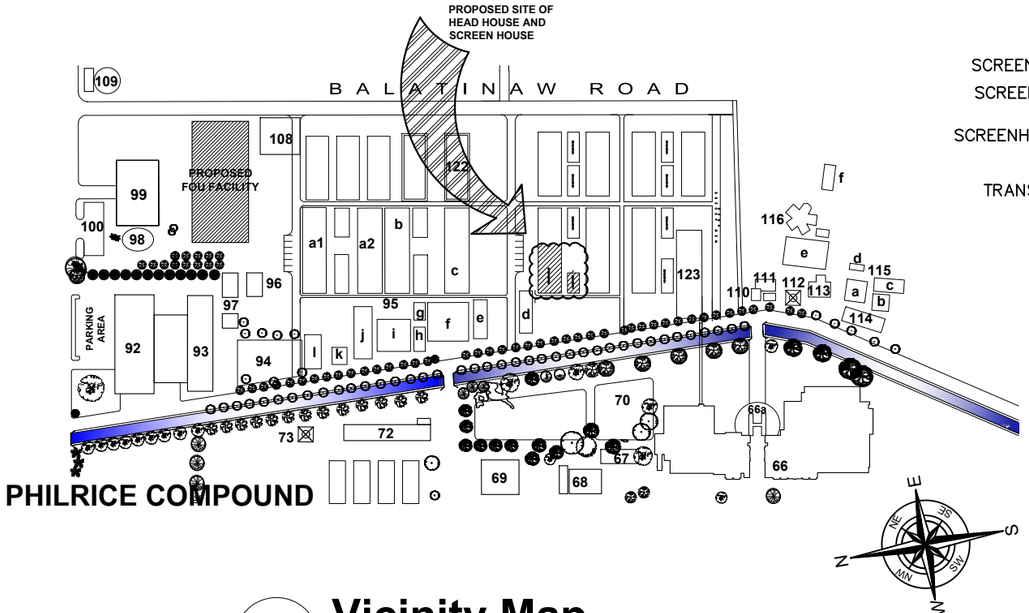
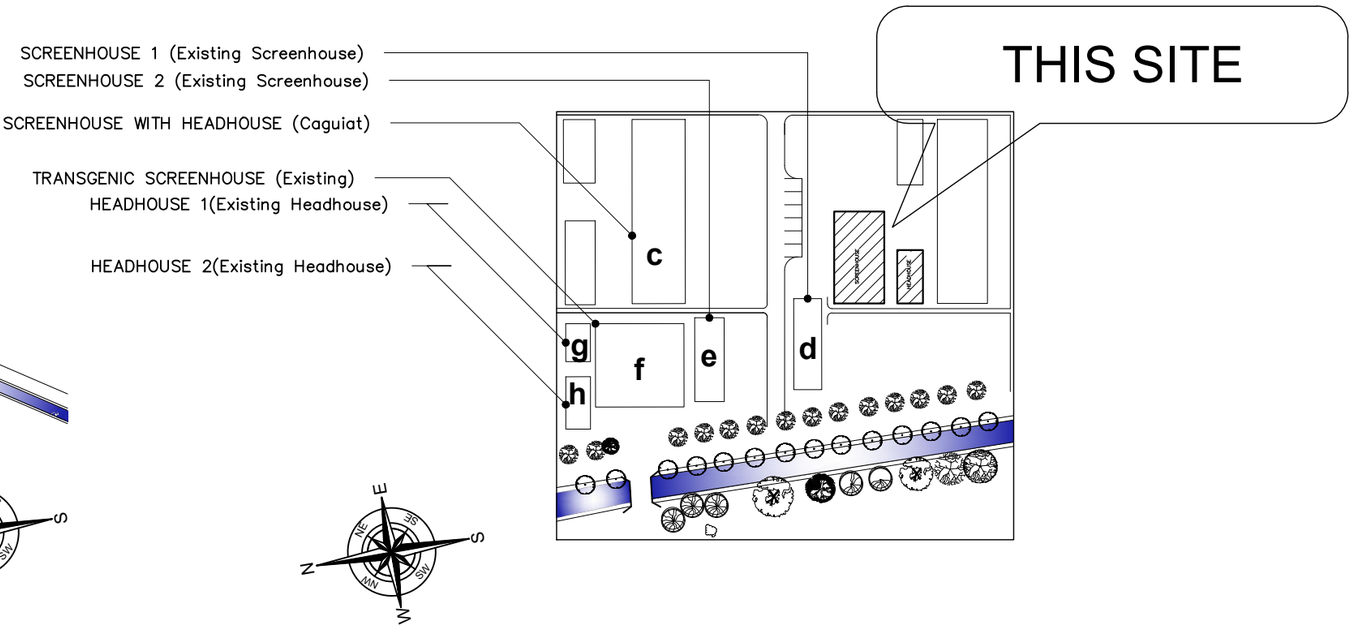
Perspective

drawn not to scale



Vicinity Map

drawn not to scale



Site Development Plan

drawn not to scale

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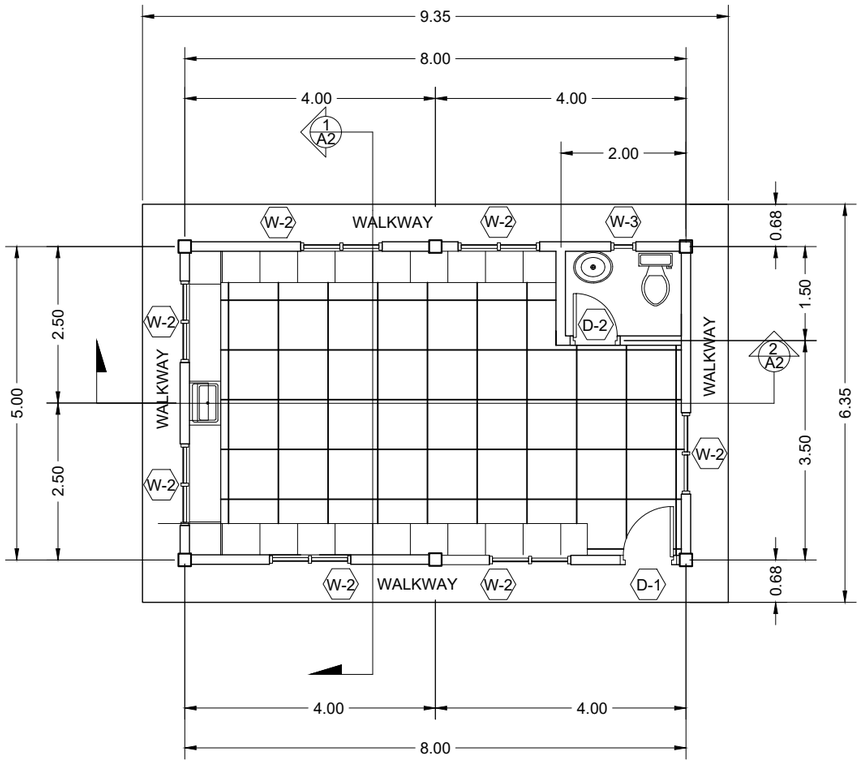
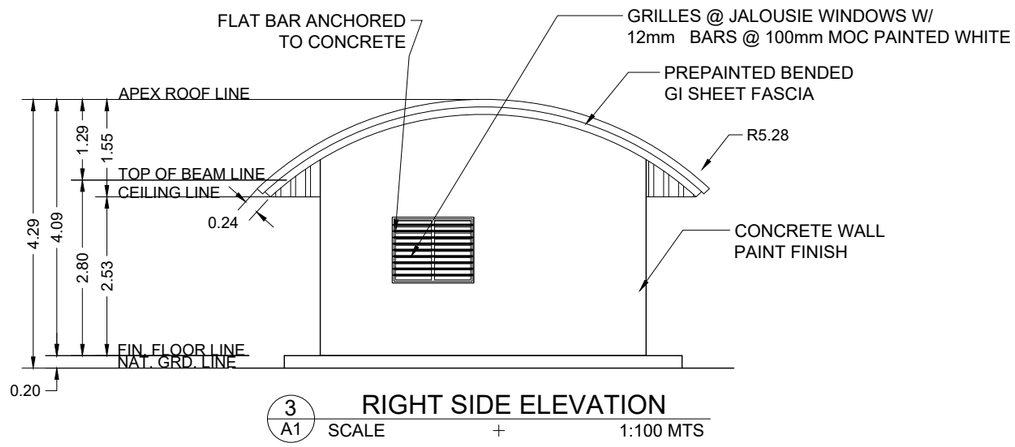
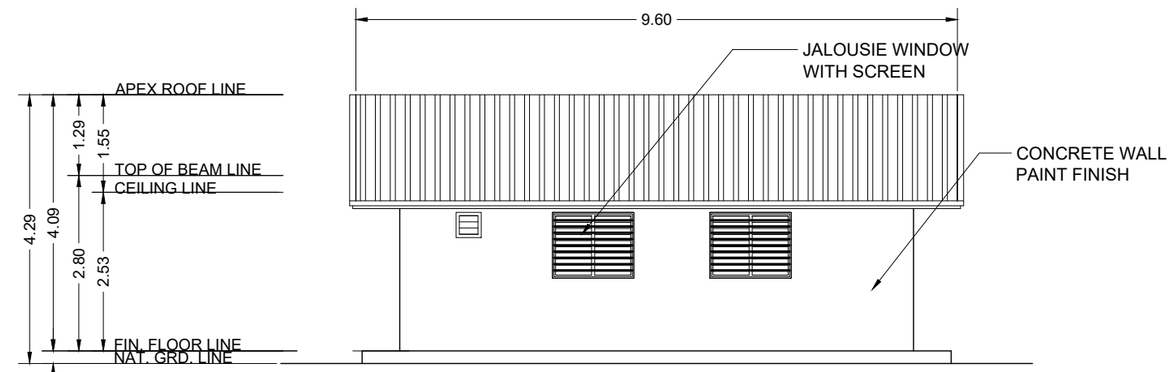


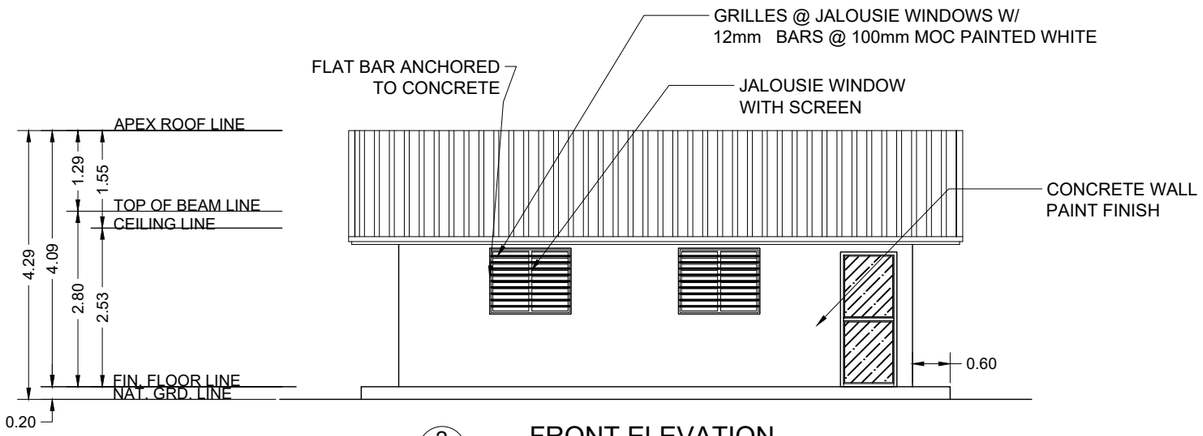
1 A1 FLOOR PLAN
SCALE 1:100 MTS



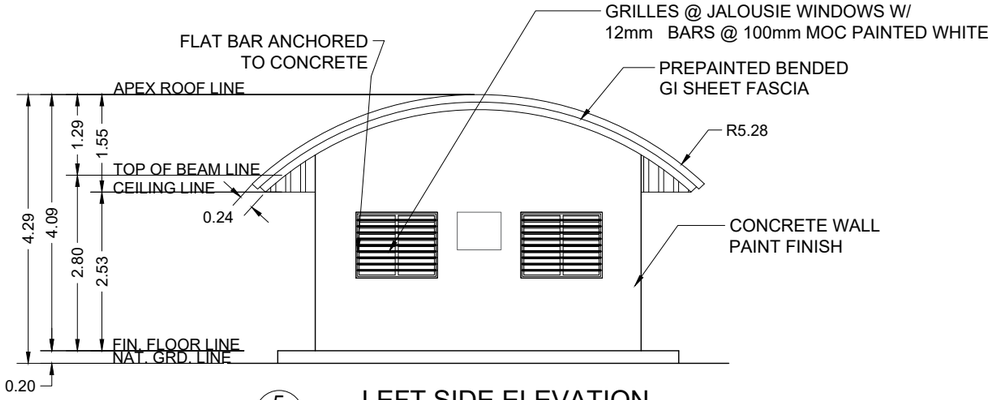
3 A1 RIGHT SIDE ELEVATION
SCALE + 1:100 MTS



4 A1 REAR ELEVATION
SCALE 1:100 MTS



2 A1 FRONT ELEVATION
SCALE 1:100 MTS



5 A1 LEFT SIDE ELEVATION
SCALE + 1:100 MTS

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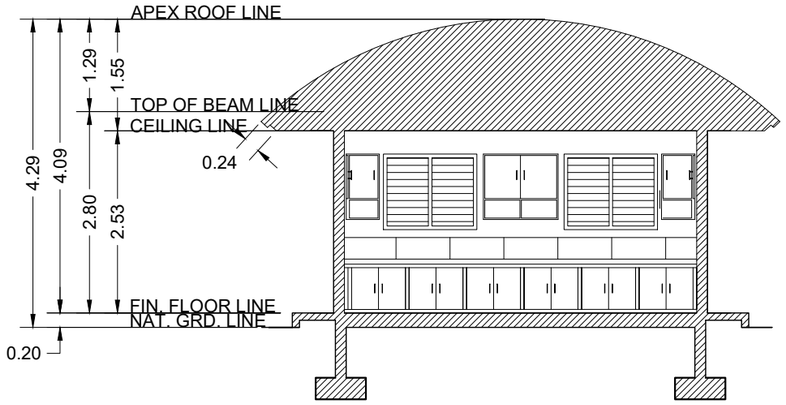
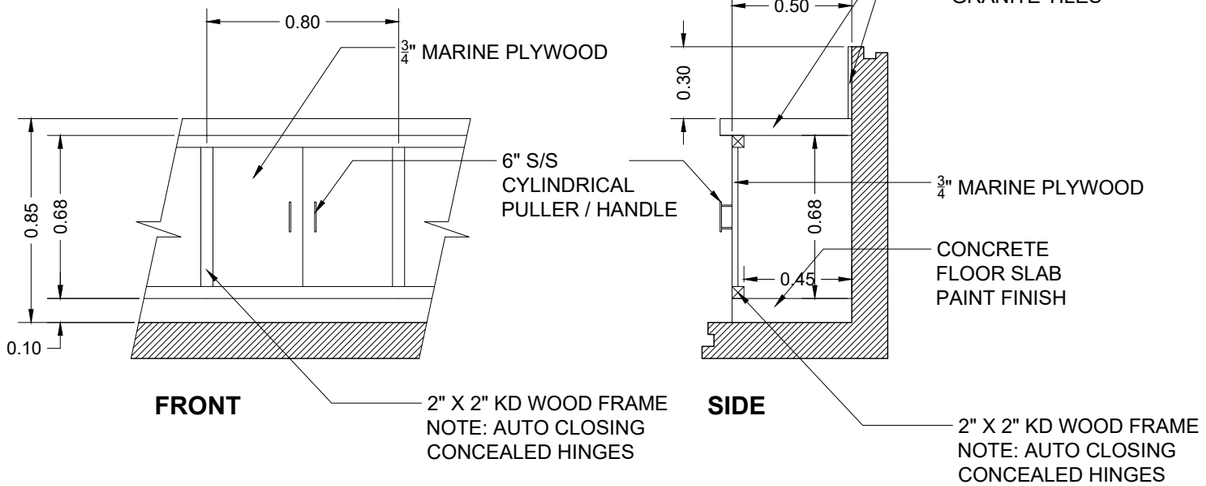
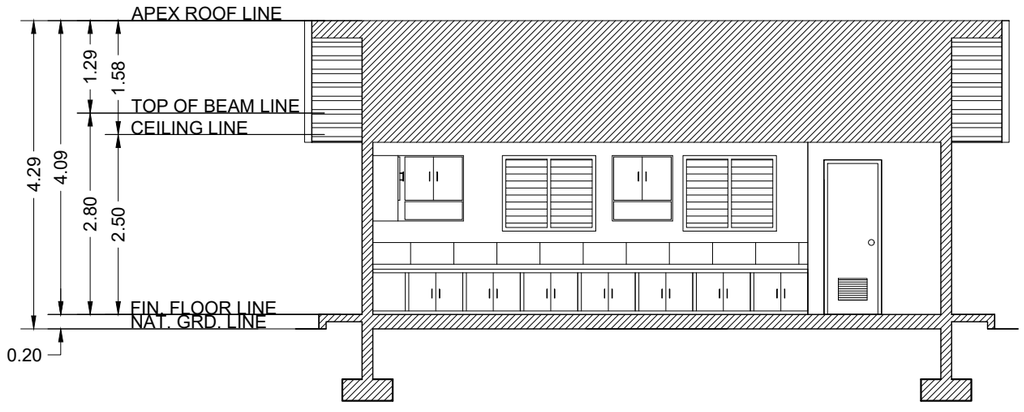


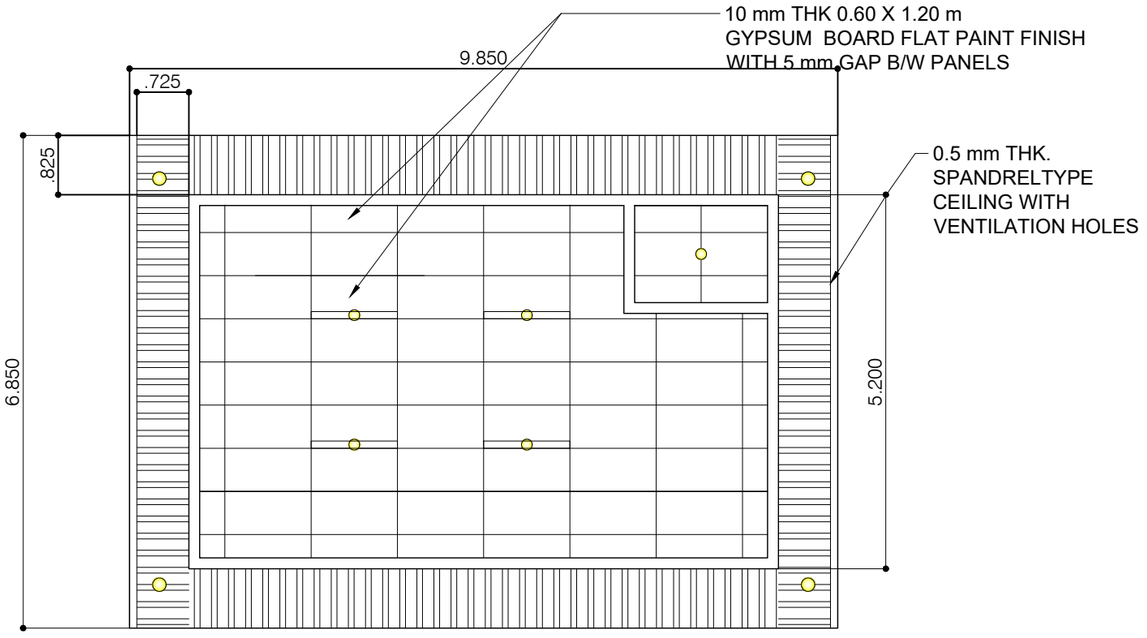
1 / A2 SECTION AT LEFT
SCALE 1:100 MTS



4 / A2 CABINET DETAIL
SCALE 1:30 MTS



2 / A2 SECTION AT REAR
SCALE 1:100 MTS



5 / A2 REFLECTED CEILING PLAN
SCALE 1:100 MTS

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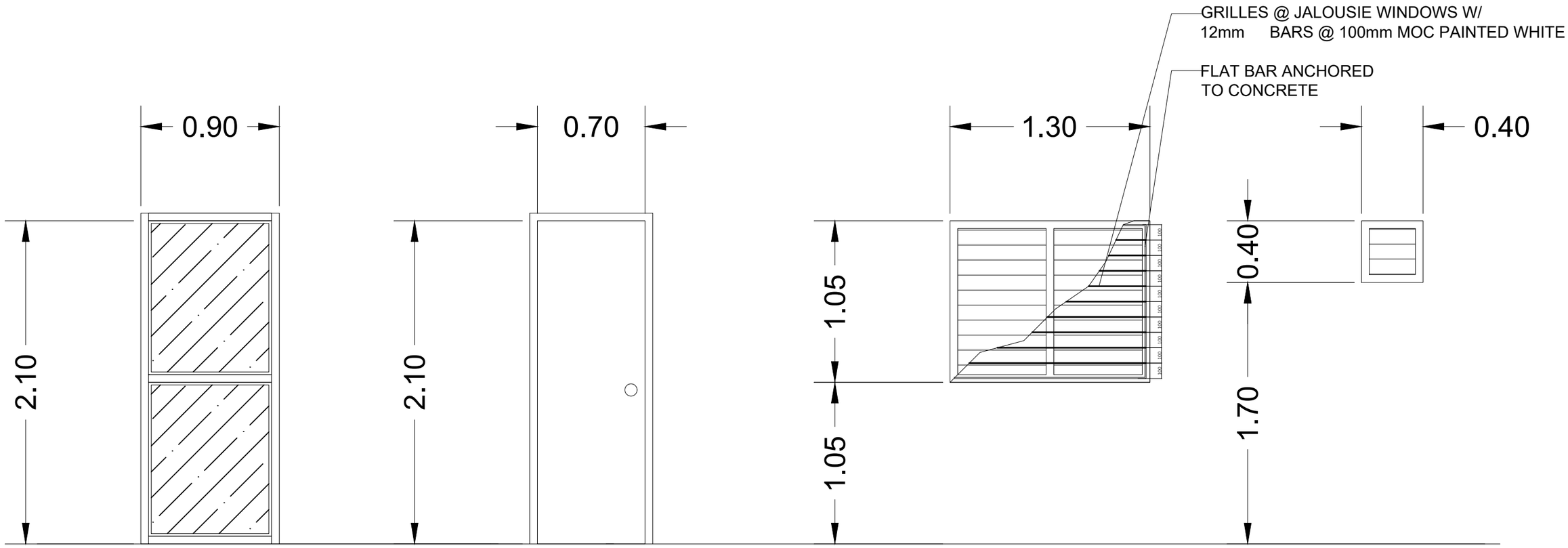

D-1

SWING DOOR ON
ANALOK ALUMINUM
FRAME WITH 8 MM
GRAY GLASS

D-2

MARINE PLYWOOD
FLUSH DOOR
0.70mX2.10m

W-1

REQUIRED: 7 SETS
JALOUSIE WINDOW
WITH SCREEN

W-2

REQUIRED: 1 SET
JALOUSIE WINDOW
WITH SCREEN

SCHEDULE OF DOORS AND WINDOWS/WINDOW GRILLES

3
A2 SCALE 1:75 MTS

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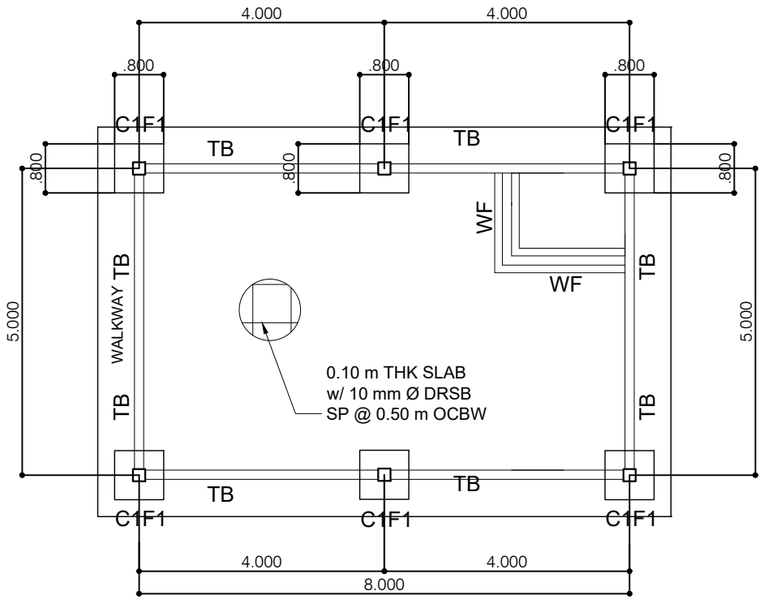
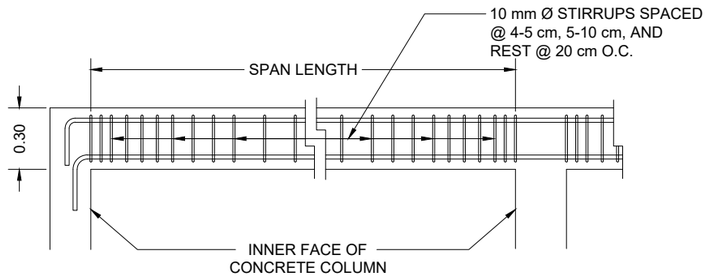
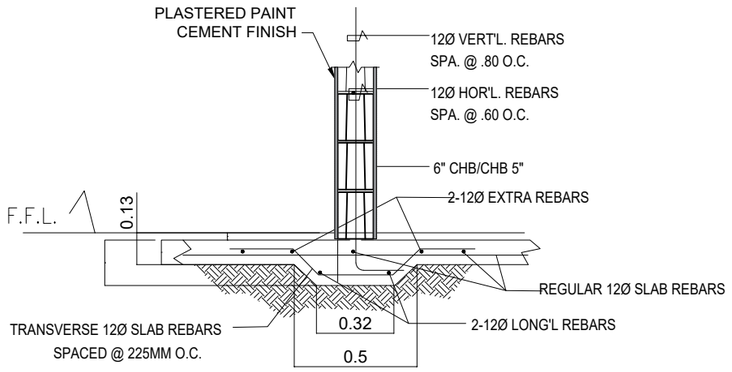


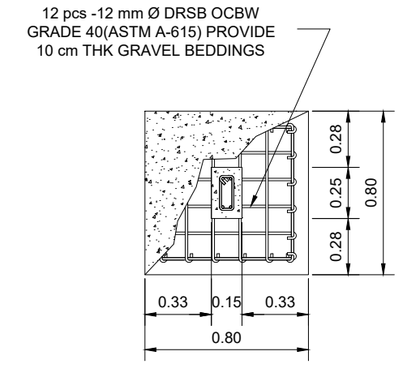
1 S1 FOUNDATION PLAN
SCALE 1:100 MTS



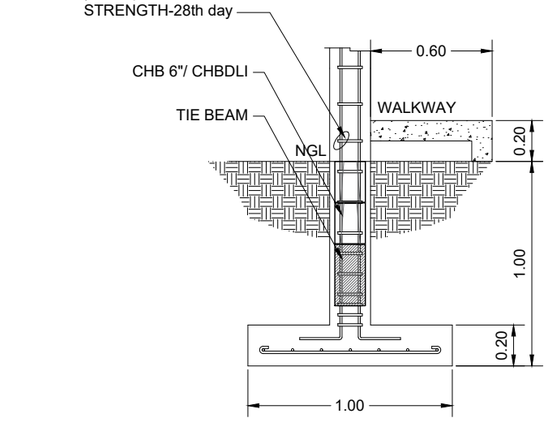
2 S1 TYPICAL BEAM DETAIL
SCALE 1:30 MTS



3 S1 WALL FOOTING DETAIL
SCALE 1:30 MTS



FOOTING-1 (F1)



COLUMN-1 (C1)

4 S1 COLUMN FOOTING DETAIL
SCALE 1:30 MTS

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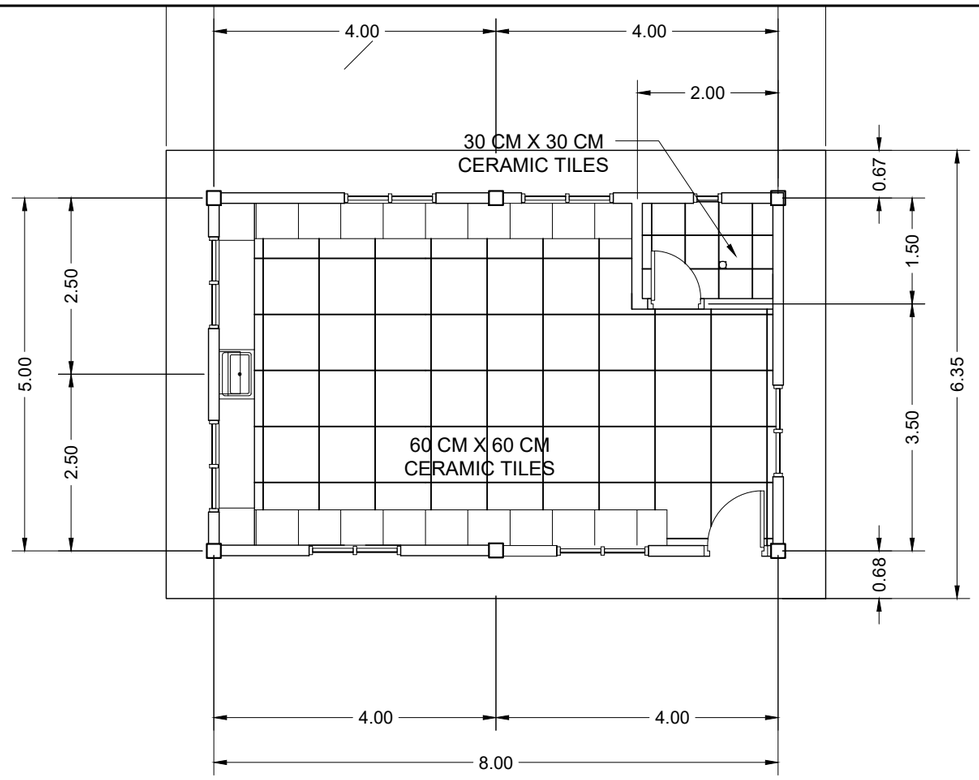
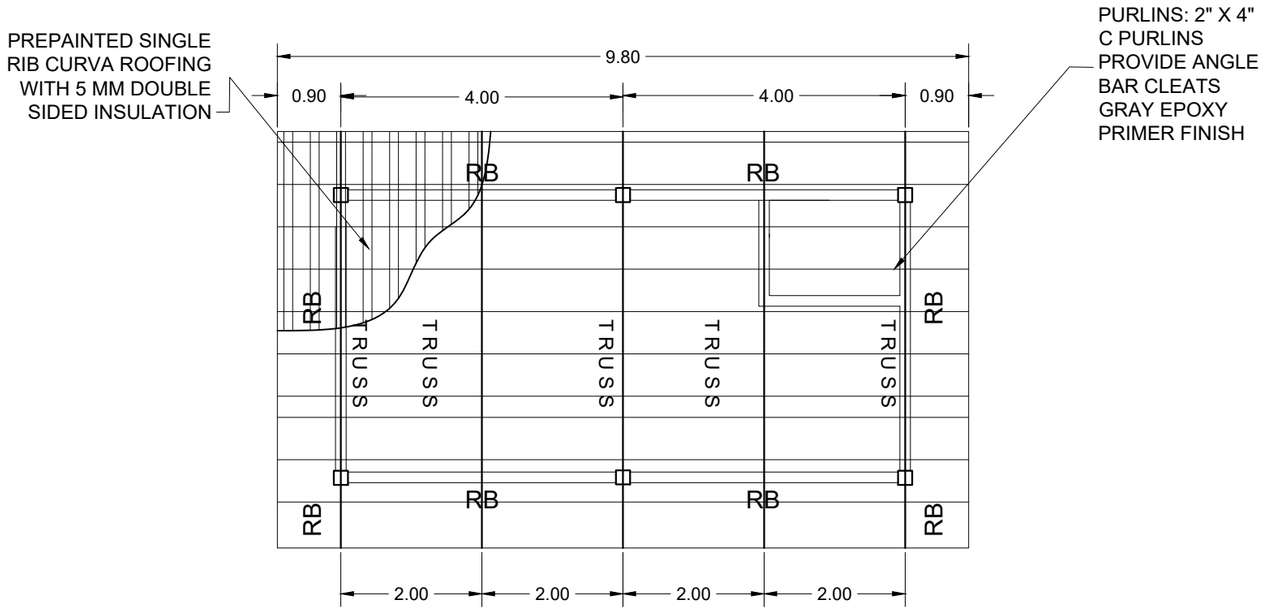
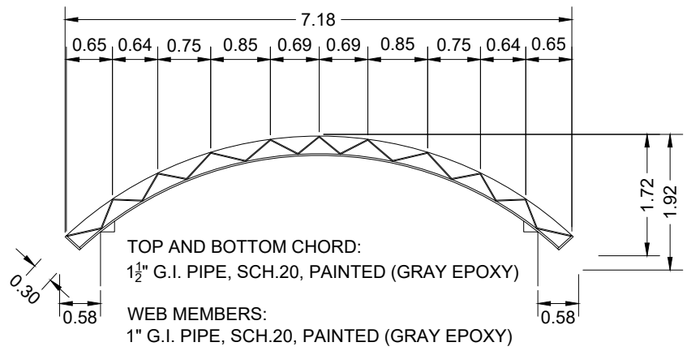


1 S2 TILE PLAN
SCALE 1:100 MTS



2 S2 ROOF FRAMING PLAN
SCALE 1:100 MTS



3 S2 TRUSS DETAIL
SCALE 1:100 MTS

MARK	SIZE		REINFORCING STEEL BAR		
	WIDTH	HEIGHT	AT SUPPORT	AT MIDSPAN	STIRRUPS
TIE BEAM (TB)	0.15	0.30	2-12 mm Ø	TOP & BOTTOM BAR: 2-12 mm Ø	2-12 mm Ø
ROOF BEAM (RB)	0.15	0.30	2-12 mm Ø	TOP & BOTTOM BAR: 2-12 mm Ø	2-12 mm Ø

4 S2 BEAM SCHEDULE
SCALE NTS

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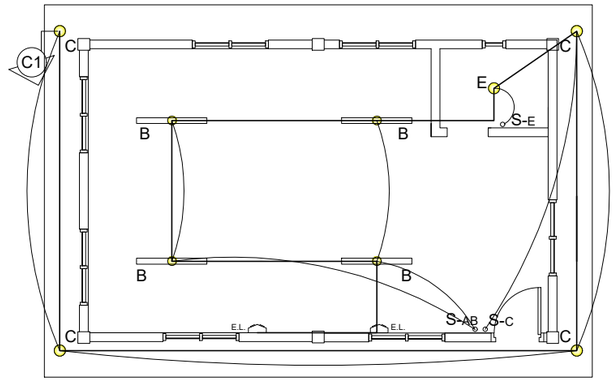
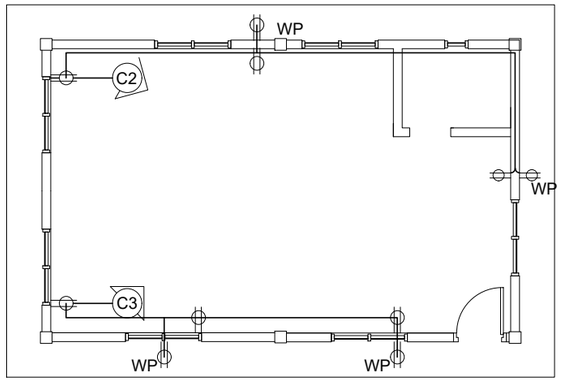
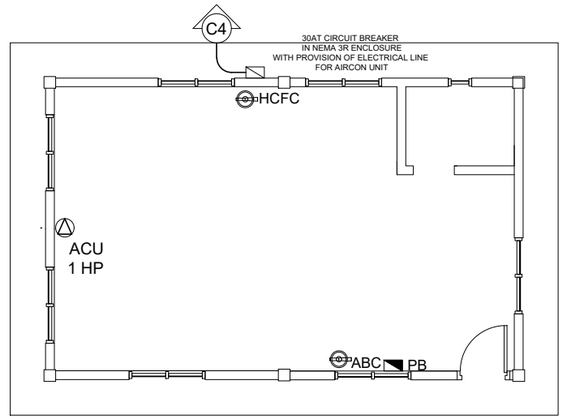


1 E1 LIGHTING LAYOUT
SCALE 1:100 MTS



2 E1 POWER LAYOUT
SCALE 1:100 MTS



2 E1 ACU & FIRE EXTINGUISHER LAYOUT
SCALE 1:100 MTS

CKT NO.	LOAD DESCRIPTION	VOLTS	TOTAL VA	AMP/CKT	CKT PROTECTION		SIZE OF WIRE		CONDUIT SIZE	
					AT	AF	TYPE	mm	TYPE	mm
1	11 LIGHTING OUTLET	230	1100	4.78	15	50	THHN	2 - 2.0	PVC/EMT	20
2	5 CONVENIENCE OUTLET	230	1800	7.83	20	50	THHN	2 - 3.5	PVC/EMT	20
3	5 CONVENIENCE OUTLET	230	900	7.83	20	50	THHN	2 - 3.5	PVC/EMT	20
4	ACU 1 HP	230		8.00	20	50	THHN	2 - 3.5	PVC/EMT	20
5	MAIN BREAKER SCREENHOUSE	230		11.48	30	50	THHN	2 - 5.5	PVC/EMT	25
6	SPARE ACU 1 HP	230		8.00	20	50	THHN	2 - 3.5	PVC/EMT	20

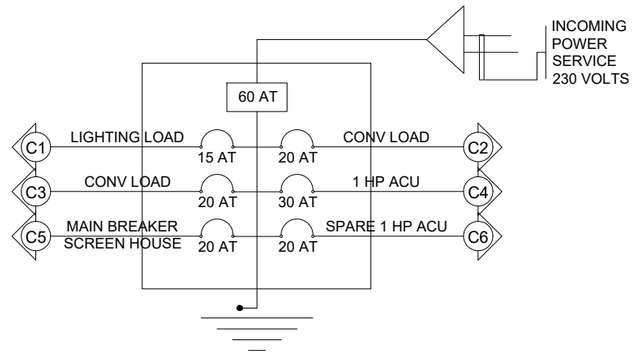
47.91

Line Current = 47.91 A

For Feeder Conductor = 1.25 x 47.91 A = 59.89 A
Use 2 - 14.0 mm THHN cu.wire in 32mm PVC Pipe

For Feeder Protection
Use 60AT 100AF SINGLE PHASE 230V 60Hz MCCB,
BOLT TYPE THERMAL MAGNETIC IN NEMA 3R ENCLOSURE, GAUGE #16

4 E1 LOAD COMPUTATION
SCALE NTS



5 E1 PANEL BOARD
SCALE NTS

	18 Watts LED Tube (1.2 meter)
	15watts LED bulb in E27 receptacle
	2 gang Convenience Outlet Universal with ground
WP	WEATHER PROOF 2 gang Convenience Outlet Universal with ground
SA	SINGLE GANG SWITCH
SAB	TWO GANG SWITCH
	Circuit Breaker for Aircon
	EMERGENCY LIGHT (Twin Head)
ABC	FIRE EXTINGUISHER (10LBS) DRY CHEM
HCFC	FIRE EXTINGUISHER (10LBS) DRY CHEM
PB	PANEL BOARD

6 E1 LEGEND
SCALE NTS

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PRODUCED BY:
PHYSICAL PLANT DIVISION
INFRASTRUCTURE UNIT
PHILRICE-CES
SCIENCE CITY OF MUÑOZ, NUEVA ECIJA

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RECOMMENDING APPROVAL:
ABNER T. MONTECALVO
DED FOR ASF
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APPROVED:
JOHN C. DE LEON
EXECUTIVE DIRECTOR
PHILRICE - CES

DESIGN BY : RBB
DATE:
CADD BY:DG & LJG
DATE:
CHECKED BY:

SHEET NUMBER:
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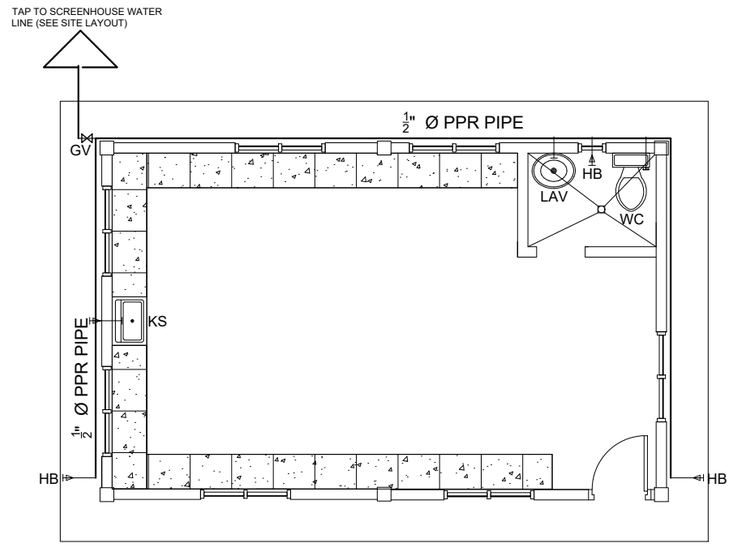
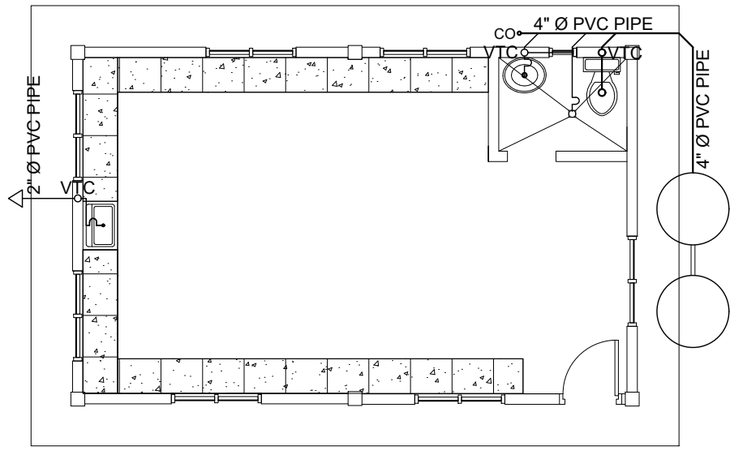


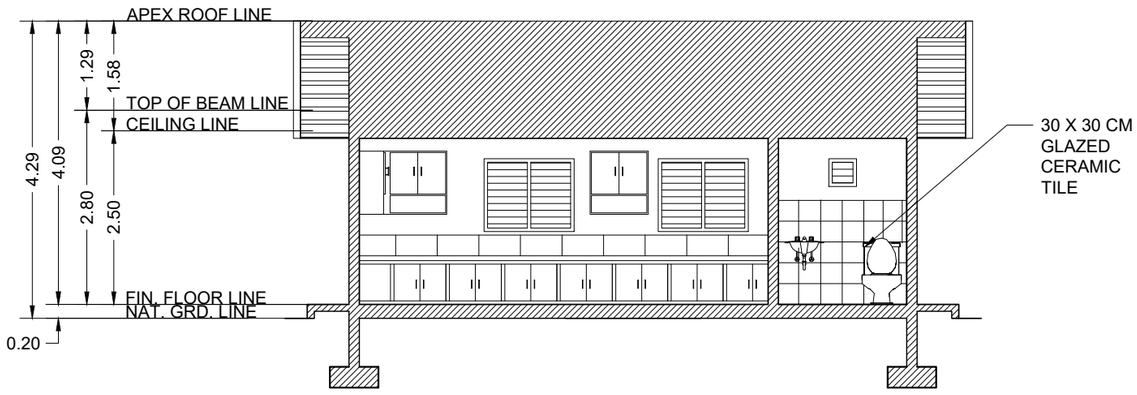
1 P1 COLD WATER LINE LAYOUT

SCALE 1:100 MTS



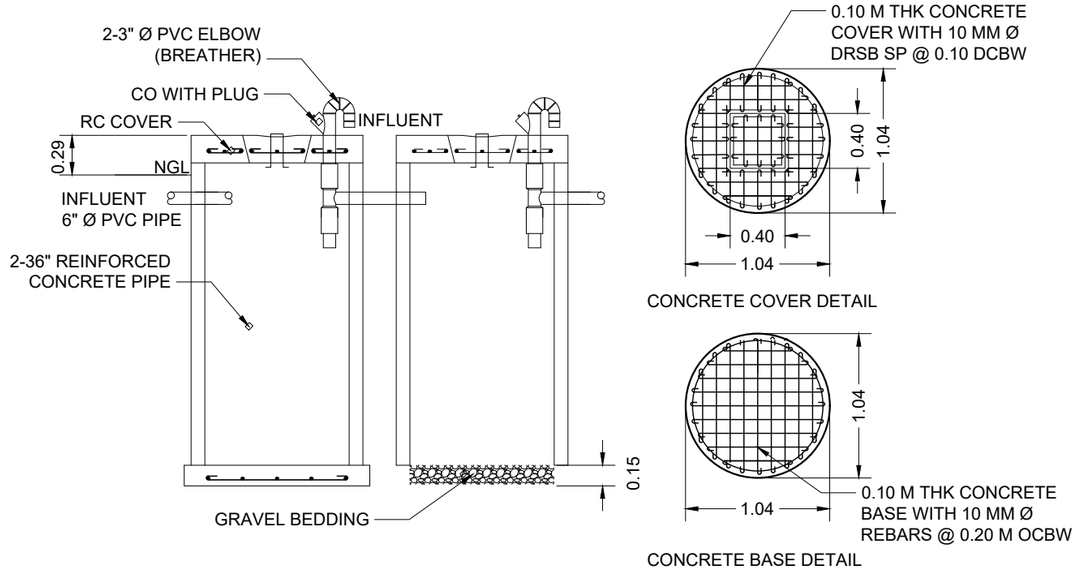
2 P1 SEWER LINE LAYOUT

SCALE 1:100 MTS



3 P1 SECTION AT CR

SCALE 1:100 MTS



4 P1 IMHOFF TANK DETAIL

SCALE 1:50 MTS

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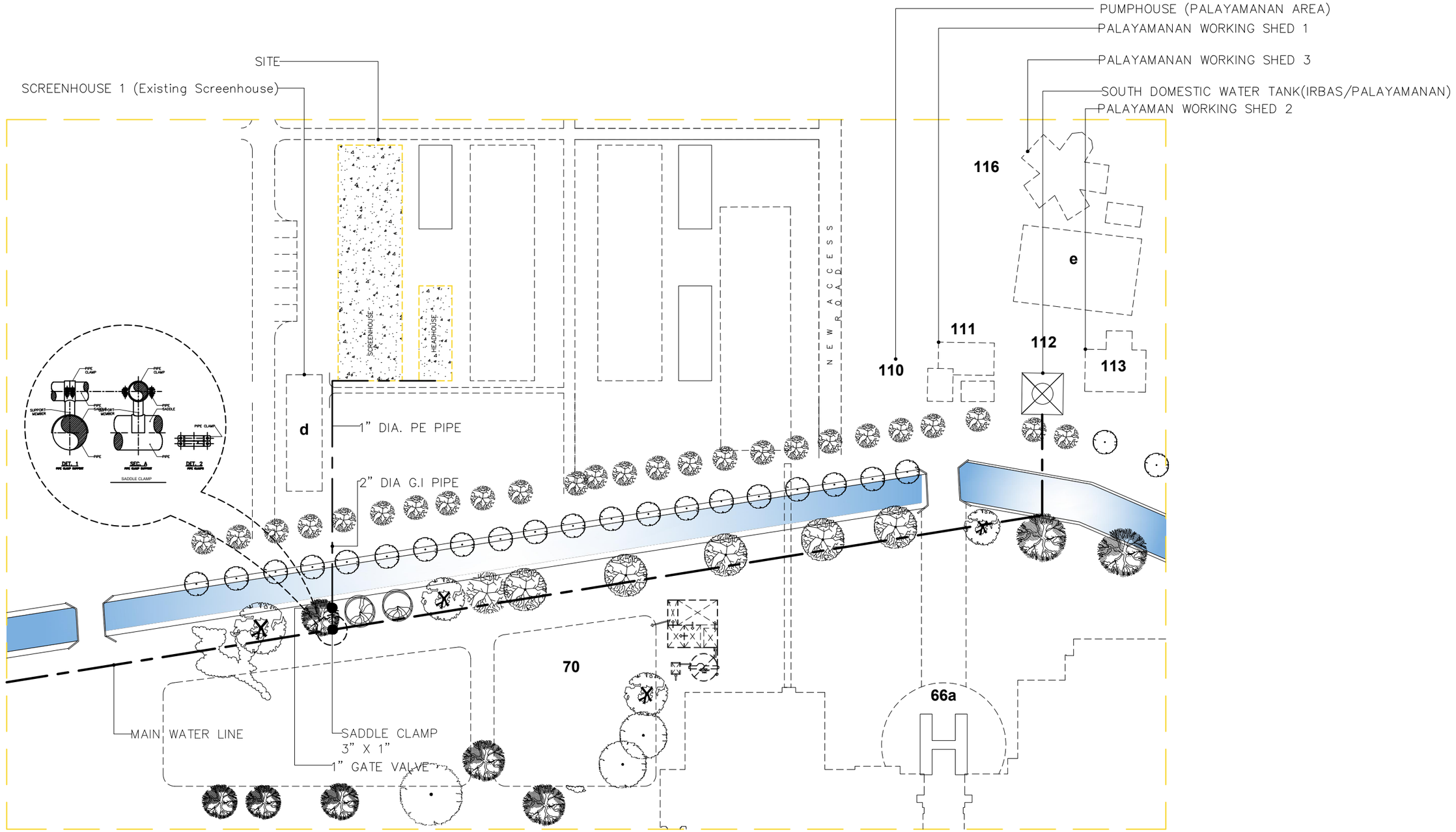

COLD WATERLINE SITE LAYOUT

NOT TO SCALE

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R.A. 9266 - Art. 3, Section 20

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