



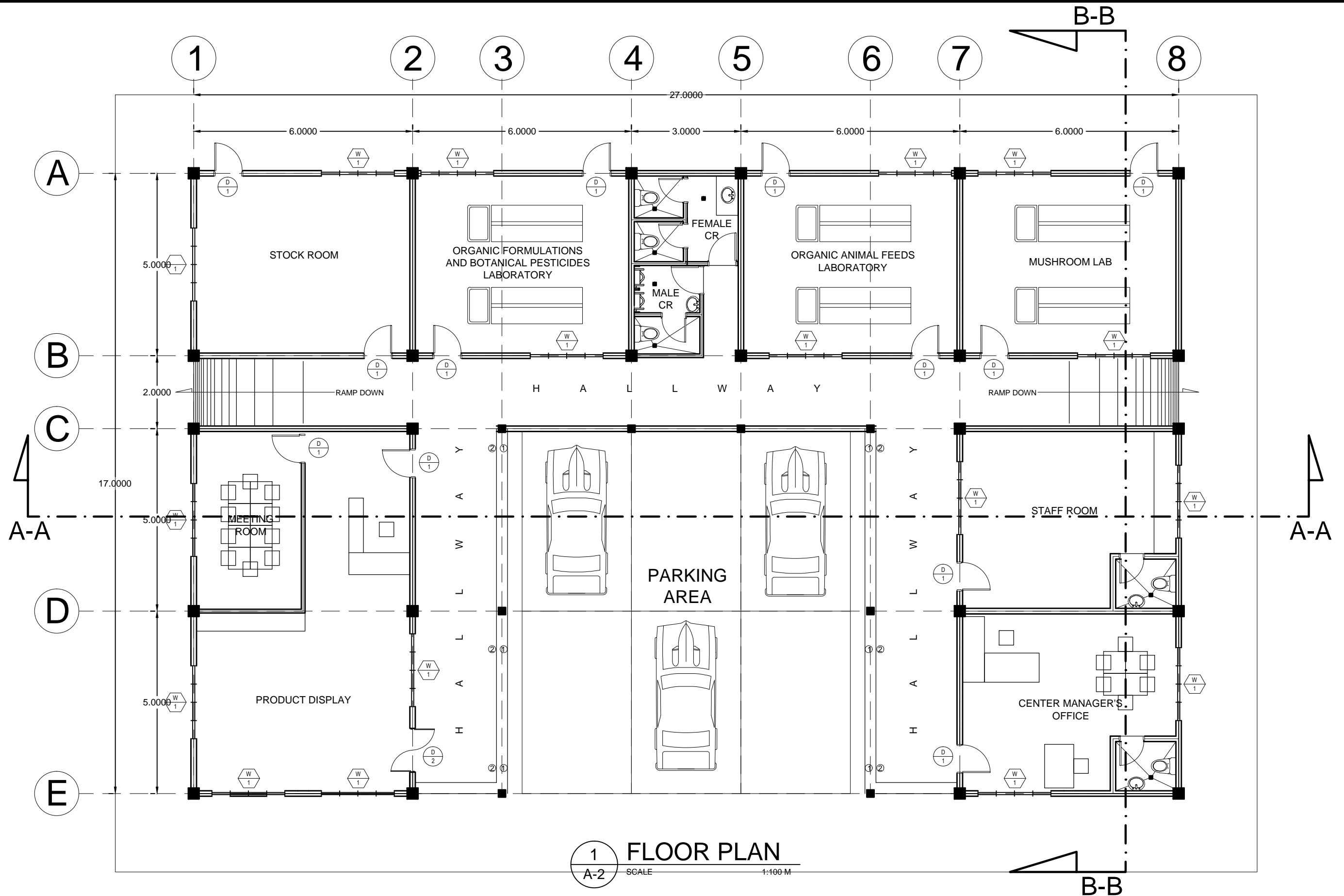


1  
A-1

PERSPECTIVE

SCALE NTS

	BATAAN PENINSULA STATE UNIVERSITY TECHNICAL WORKING GROUP FOR INFRASTRUCTURE City of Balanga, Bataan  E-mail: bpsu.twgintra2016@gmail.com Telephone No.: (046) 237-15-98	<b>Important :</b> <i>These drawings as instruments of service, are property and documents of Architect. It shall be unlawful for any person without the written consent of the Architect or authors of said documents, to duplicate or copy said documents. [ R.A. 545, Sec. 25 (4) ]</i>	ROBERT O. AGUILAR, UAP ARCHITECT	DRAWN	PROJECT	PROJECT CLIENT	RECOMMENDED BY:	APPROVED BY:	SHEET CONTENTS	SHEET NO.
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BATAAN PENINSULA STATE UNIVERSITY  
TECHNICAL WORKING GROUP FOR INFRASTRUCTURE  
City of Balanga, Bataan  
E-mail: bpsu.twginfra2016@gmail.com  
Telephone No.: (046) 237-15-98

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25 (4) ]

ROBERT O. AGUILAR, UAP  
ARCHITECT  
REG. NO. 11791  
PTR NO. 4203854  
DATE: JAN. 18, 2018  
PLACE: BALANGA CITY  
TIN:

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LOCATION  
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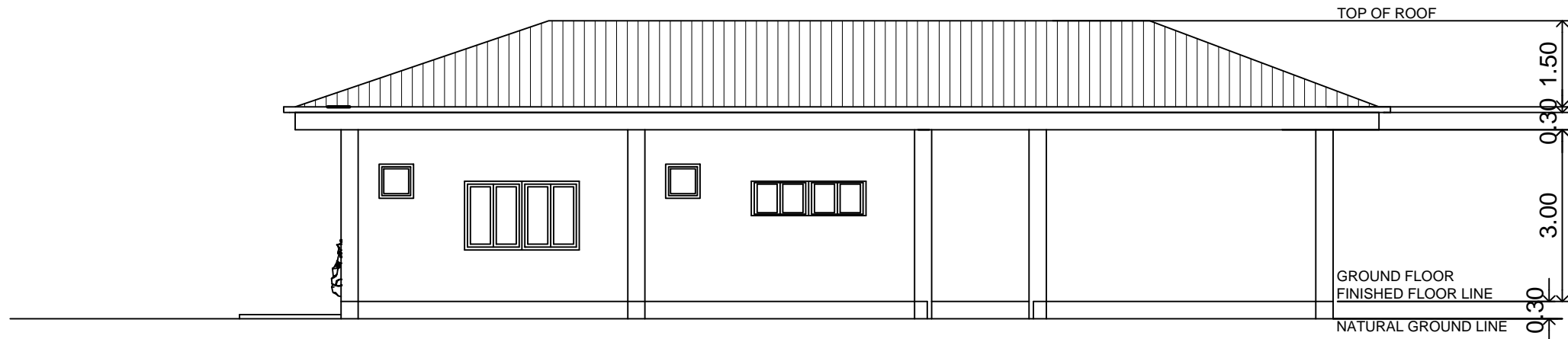
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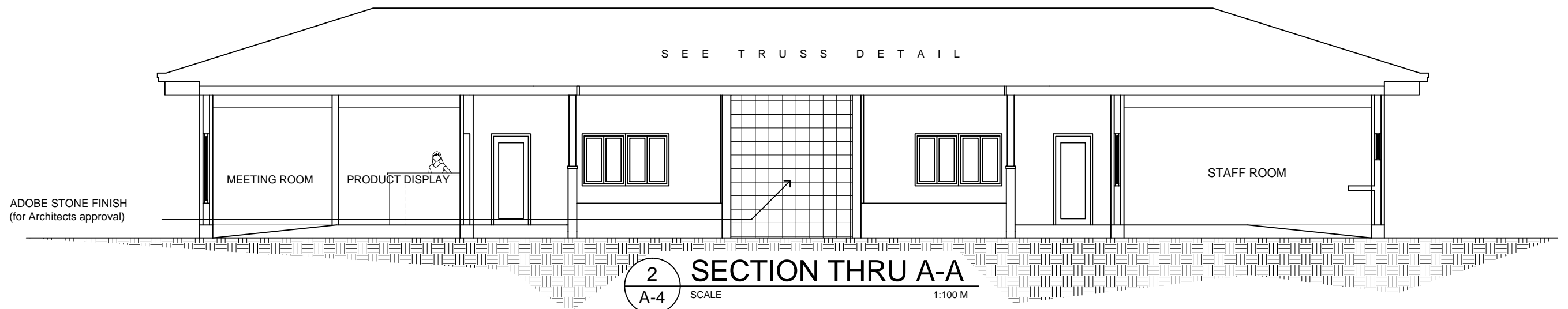
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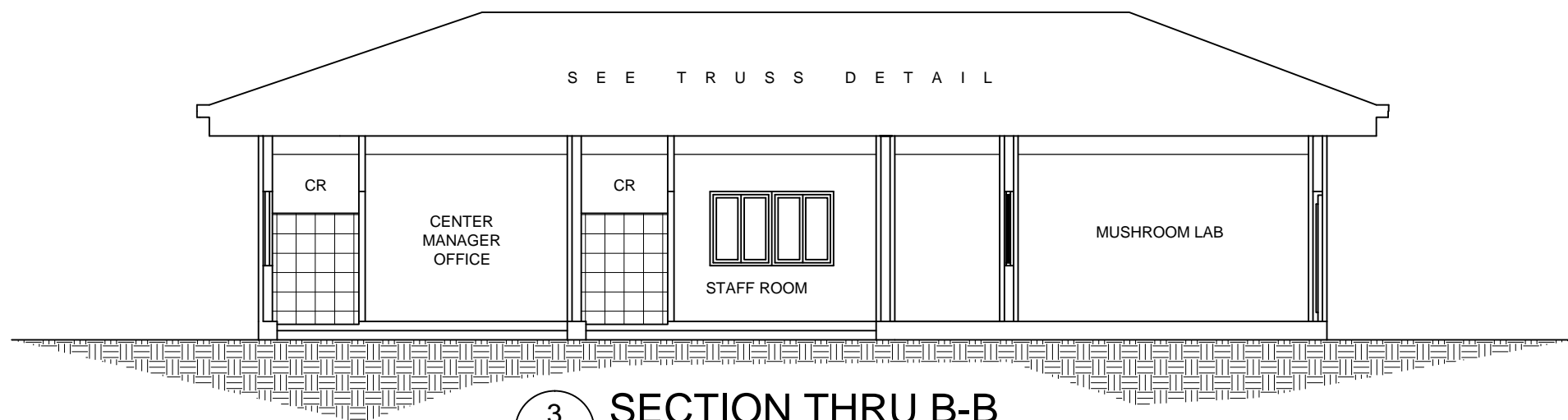
	BATAAN PENINSULA STATE UNIVERSITY TECHNICAL WORKING GROUP FOR INFRASTRUCTURE City of Balanga, Bataan  E-mail: bpsu.twginfra2016@gmail.com Telephone No.: (046) 237-15-98	<b>Important :</b> <i>These drawings as instruments of service, are property and documents of Architect. It shall be unlawful for any person without the written consent of the Architect or authors of said documents, to duplicate or copy said documents. [ R.A. 545, Sec. 25 (4) ]</i>	ROBERT O. AGUILAR, UAP ARCHITECT		DRAWN	PROJECT PROPOSED ORGANIC AGRICULTURE RESEARCH AND DEVELOPMENT FACILITY  LOCATION BPSU (ABUCAY CAMPUS), ABUCAY, BATAAN	PROJECT CLIENT BATAAN PENINSULA STATE UNIVERSITY	RECOMMENDED BY: DR. EDMUNDO C. TUNGOL VICE PRESIDENT FOR ADMIN. AND FINANCE	APPROVED BY: DR. GREGORIO J. RODIS UNIVERSITY PRESIDENT	SHEET CONTENTS AS SHOWN	SHEET NO. <div>A 3/4</div>
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1 RIGHT ELEVATION  
A-4 SCALE 1:100 M



2 SECTION THRU A-A  
A-4 SCALE 1:100 M



3 SECTION THRU B-B  
A-4 SCALE 1:100 M



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TECHNICAL WORKING GROUP FOR INFRASTRUCTURE  
City of Balanga, Bataan  
E-mail: bpsu.twginfra2016@gmail.com  
Telephone No.: (046) 237-15-98

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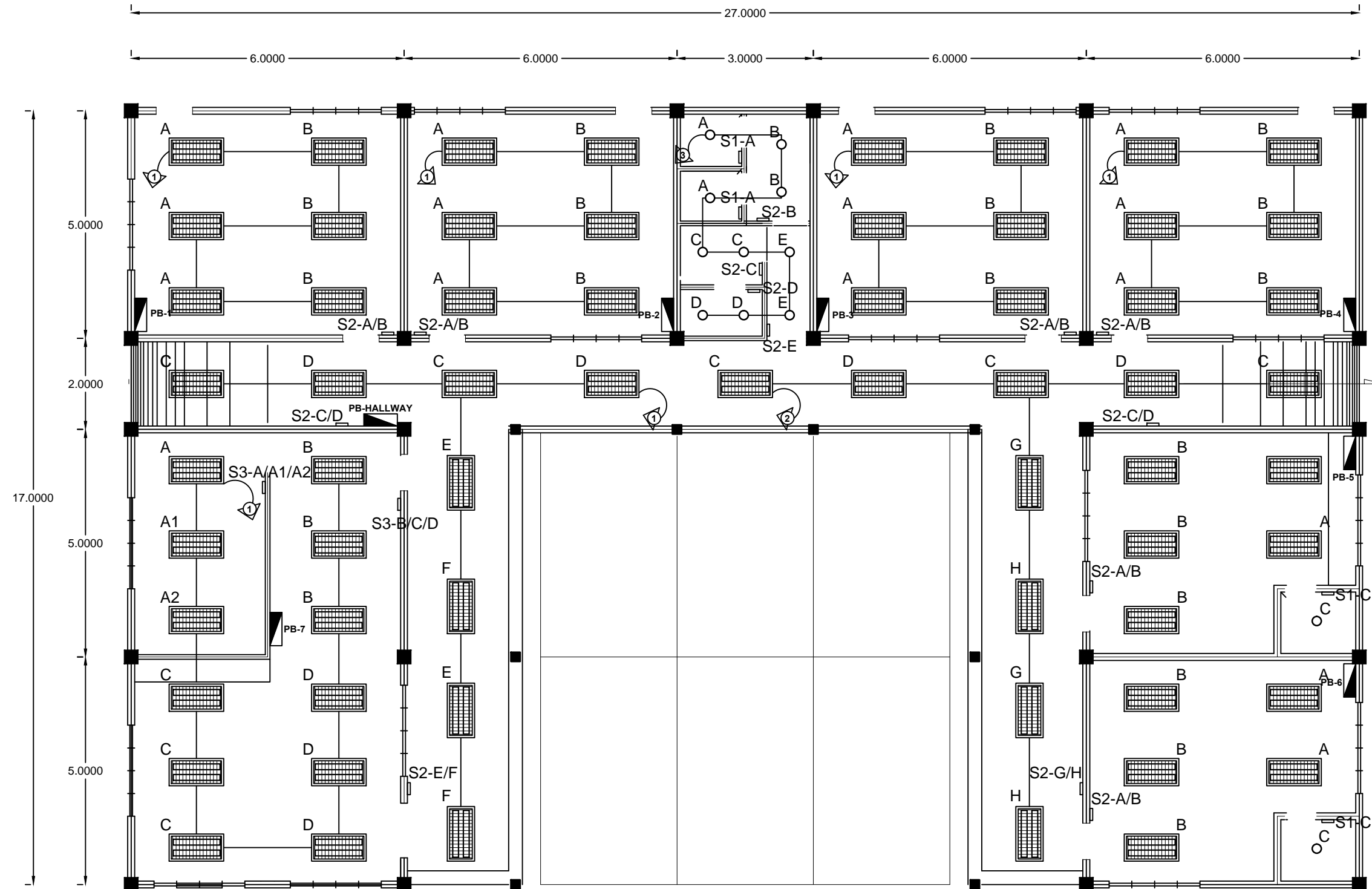
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SHEET CONTENTS  
AS SHOWN

SHEET NO.

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4 4



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E-1

# GROUND LIGHTING LAYOUT

SCALE 1:100 M



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TECHNICAL WORKING GROUP FOR INFRASTRUCTURE  
City of Balanga, Bataan  
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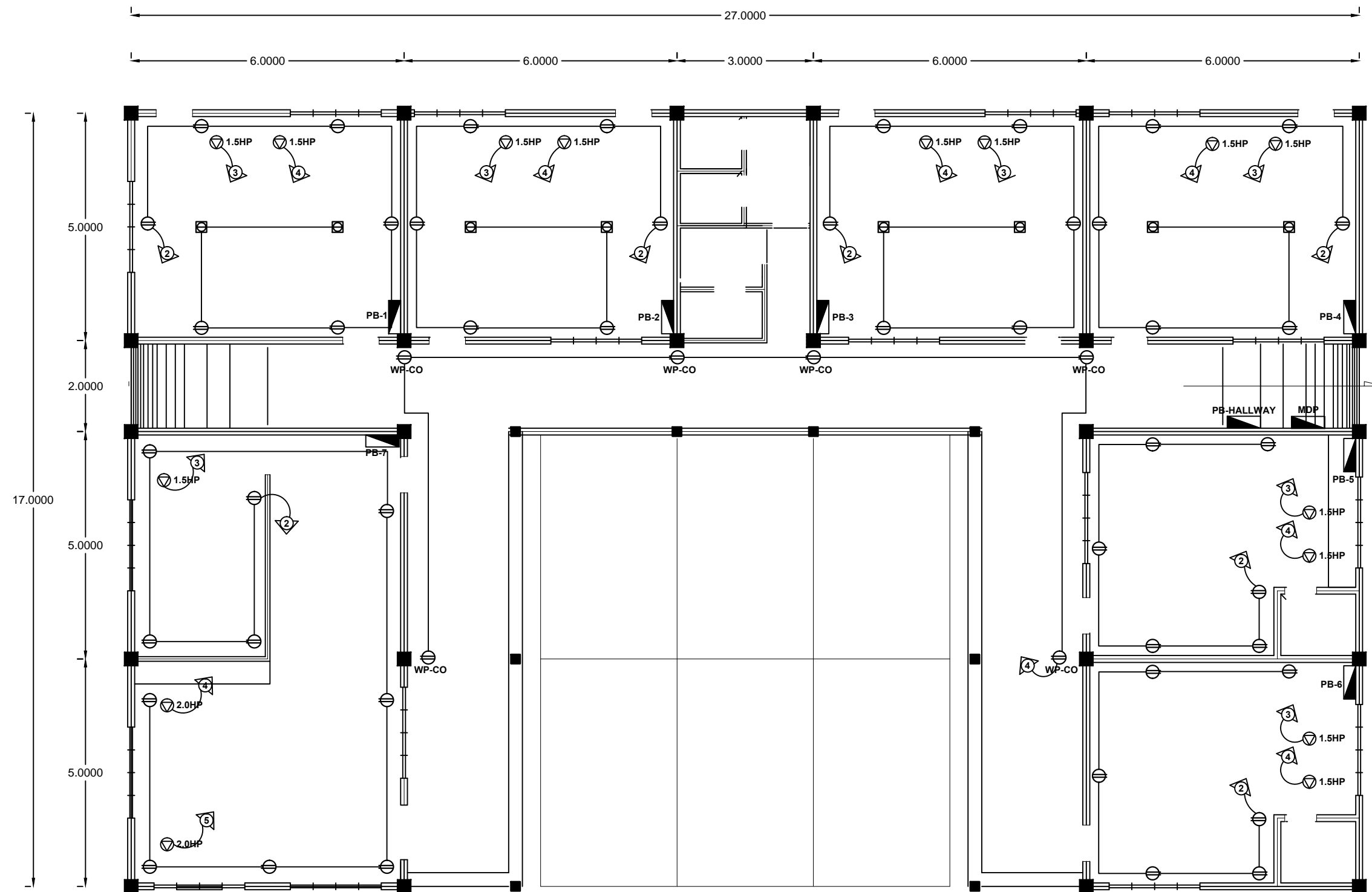
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SHEET NO.
E 1/4



1 GROUND POWER LAYOUT  
E-2 SCALE 1:100 M



BATAAN PENINSULA STATE UNIVERSITY  
TECHNICAL WORKING GROUP FOR INFRASTRUCTURE  
City of Balanga, Bataan  
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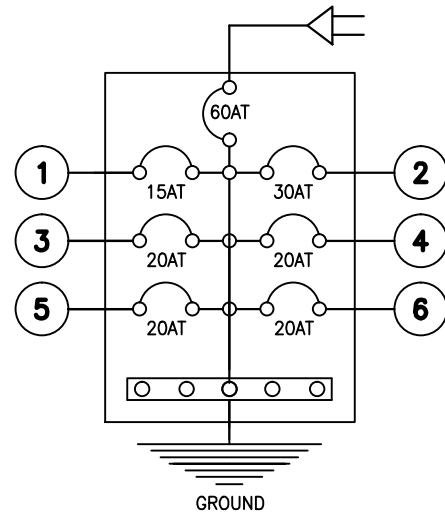
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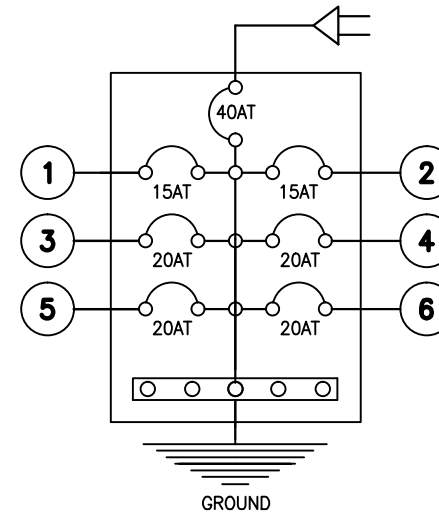
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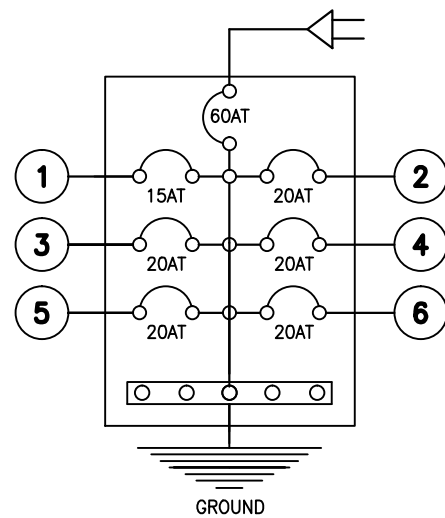
SHEET NO.
E 2/4



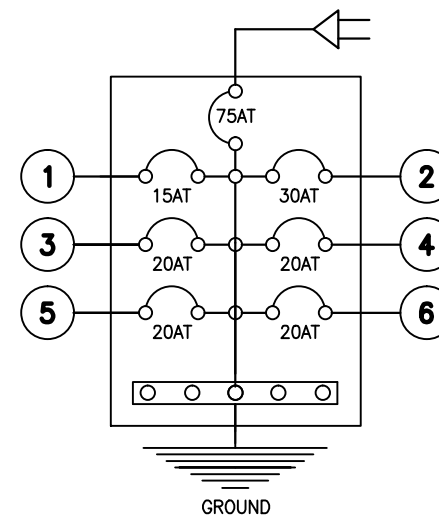
SCHEDULE AND LOAD COMPUTATION							
PB-1 TO PB-4							
NO.	DESCRIPTION	NO. OUTLET	VOLTS	VA	AMP PER CKT	PROTECTION PER CKT	SIZE OF WIRE PER CONDUIT
1	LIGHTING OUTLET	6	230	600	2.60	15 AT	2-3.50 mm <sup>2</sup> THHN CU 15mm $\phi$
2	CONVENIENCE OULET	8	230	2880	12.52	30 AT	2-5.50 mm <sup>2</sup> THHN CU 1-5.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
3	ACU 1.5HP	1	230	2300	10	20 AT	2-3.50 mm <sup>2</sup> THHN CU 1-3.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
4	ACU 1.5HP	1	230	2300	10	20 AT	2-3.50 mm <sup>2</sup> THHN CU 1-3.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
5	SPARE	1	230	1500	6.52	20 AT	2-3.50 mm <sup>2</sup> THHN CU 1-3.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
6	SPARE	1	230	1500	6.52	20 AT	2-3.50 mm <sup>2</sup> THHN CU 1-3.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
TOTAL				10,159.1	46.17	60 AT	2- 14.0 mm <sup>2</sup> THHN CU 1- 5.5 mm <sup>2</sup> THHN CU 50mm $\phi$



SCHEDULE AND LOAD COMPUTATION							
PB-HALLWAY							
NO.	DESCRIPTION	NO. OUTLET	VOLTS	VA	AMP PER CKT	PROTECTION PER CKT	SIZE OF WIRE PER CONDUIT
1	LIGHTING OUTLET	8	230	800	3.47	15 AT	2-3.50 mm <sup>2</sup> THHN CU 15mm $\phi$
2	LIGHTING OUTLET	9	230	900	3.91	15 AT	2-3.50 mm <sup>2</sup> THHN CU 15mm $\phi$
3	LIGHTING OUTLET (TOILET FACILITIES)	10	230	1000	4.34	15 AT	2-3.50 mm <sup>2</sup> THHN CU 15mm $\phi$
4	CONVENIENCE OULET	6	230	2160	9.39	20 AT	2-3.50 mm <sup>2</sup> THHN CU 1-3.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
5	MOTOR PUMP 1HP	1	230	1840	8	20 AT	2-3.50 mm <sup>2</sup> THHN CU 1-3.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
6	SPARE	1	230	1500	6	20 AT	2-3.50 mm <sup>2</sup> THHN CU 1-3.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
TOTAL				8200	35.65	40 AT	2- 8.0 mm <sup>2</sup> THHN CU 1- 5.5 mm <sup>2</sup> THHN CU 25mm $\phi$



SCHEDULE AND LOAD COMPUTATION							
PB-5 TO PB-6							
NO.	DESCRIPTION	NO. OUTLET	VOLTS	VA	AMP PER CKT	PROTECTION PER CKT	SIZE OF WIRE PER CONDUIT
1	LIGHTING OUTLET	6	230	600	2.60	15 AT	2-3.50 mm <sup>2</sup> THHN CU 15mm $\phi$
2	CONVENIENCE OULET	6	230	2160	9.39	20 AT	2-3.50 mm <sup>2</sup> THHN CU 1-3.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
3	ACU 1.5HP	1	230	2300	10	20 AT	2-3.50 mm <sup>2</sup> THHN CU 1-3.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
4	ACU 1.5HP	1	230	2300	10	20 AT	2-3.50 mm <sup>2</sup> THHN CU 1-3.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
5	SPARE	1	230	1500	6.52	20 AT	2-3.50 mm <sup>2</sup> THHN CU 1-3.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
6	SPARE	1	230	1500	6.52	20 AT	2-3.50 mm <sup>2</sup> THHN CU 1-3.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
TOTAL				10,359.2	45.04	60 AT	2- 14.0 mm <sup>2</sup> THHN CU 1- 5.5 mm <sup>2</sup> THHN CU 50mm $\phi$



SCHEDULE AND LOAD COMPUTATION							
PB-7							
NO.	DESCRIPTION	NO. OUTLET	VOLTS	VA	AMP PER CKT	PROTECTION PER CKT	SIZE OF WIRE PER CONDUIT
1	LIGHTING OUTLET	12	230	1200	5.21	15 AT	2-3.50 mm <sup>2</sup> THHN CU 15mm $\phi$
2	CONVENIENCE OULET	10	230	3600	15.65	30 AT	2-5.50 mm <sup>2</sup> THHN CU 1-5.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
3	ACU 1.5HP	1	230	2300	8	20 AT	2-3.50 mm <sup>2</sup> THHN CU 1-3.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
4	ACU 2.0HP	1	230	2760	8	20 AT	2-3.50 mm <sup>2</sup> THHN CU 1-3.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
5	ACU 2.0HP	1	230	2760	6.52	20 AT	2-3.50 mm <sup>2</sup> THHN CU 1-3.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
6	SPARE	1	230	1500	6.52	20 AT	2-3.50 mm <sup>2</sup> THHN CU 1-3.50 mm <sup>2</sup> THHN CU (G) 20mm $\phi$
TOTAL				14,120	61.39	75 AT	2- 22.0 mm <sup>2</sup> THHN CU 1- 8.0 mm <sup>2</sup> THHN CU 50mm $\phi$

1  
E-3

## RISER DIAGRAM AND SCHEDULE OF LOADS

SCALE

NTS



BATAAN PENINSULA STATE UNIVERSITY  
TECHNICAL WORKING GROUP FOR INFRASTRUCTURE  
City of Balanga, Bataan  
E-mail: bpsu.twginfra2016@gmail.com  
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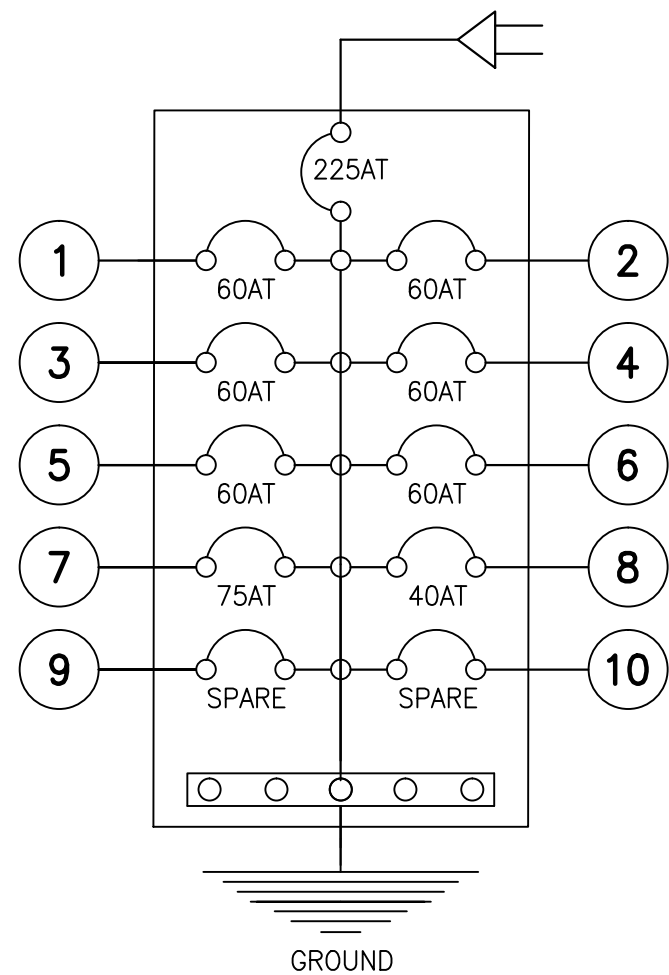
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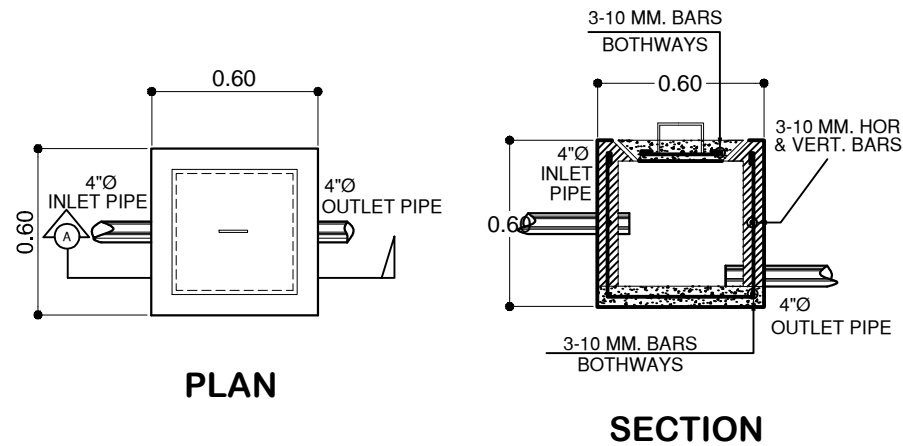


SCHEDULE AND LOAD COMPUTATION							
MAIN DISTRIBUTION PANEL							
NO.	DESCRIPTION	NO. OUTLET	VOLTS	VA	AMP PER CKT	PROTECTION PER CKT	SIZE OF WIRE PER CONDUIT
1	PB 1		230	10,159.1	46.17	60 AT	2- 14.0 mm <sup>2</sup> THHN CU 1- 5.5 mm <sup>2</sup> THHN CU 50mmø
2	PB 2		230	10,159.1	46.17	60 AT	2- 14.0 mm <sup>2</sup> THHN CU 1- 5.5 mm <sup>2</sup> THHN CU 50mmø
3	PB 3		230	10,159.1	46.17	60 AT	2- 14.0 mm <sup>2</sup> THHN CU 1- 5.5 mm <sup>2</sup> THHN CU 50mmø
4	PB 4		230	10,159.1	46.17	60 AT	2- 14.0 mm <sup>2</sup> THHN CU 1- 5.5 mm <sup>2</sup> THHN CU 50mmø
5	PB 5		230	10,359.2	45.04	60 AT	2- 14.0 mm <sup>2</sup> THHN CU 1- 5.5 mm <sup>2</sup> THHN CU 50mmø
6	PB 6		230	10,359.2	45.04	60 AT	2- 14.0 mm <sup>2</sup> THHN CU 1- 5.5 mm <sup>2</sup> THHN CU 50mmø
7	PB 7		230	14,120	61.39	75 AT	2- 22.0 mm <sup>2</sup> THHN CU 1- 8.0 mm <sup>2</sup> THHN CU 50mmø
8	HALLWAY		230	8200	35.65	40 AT	2- 8.0 mm <sup>2</sup> THHN CU 1- 5.5 mm <sup>2</sup> THHN CU 25mmø
9	SPARE		230	-	-	-	-
10	SPARE		230	-	-	-	-
TOTAL				225 AT , 2P, 230 V MCCB			2- 100 mm <sup>2</sup> THHN CU 1- 22 mm <sup>2</sup> THHN CU 80mmø

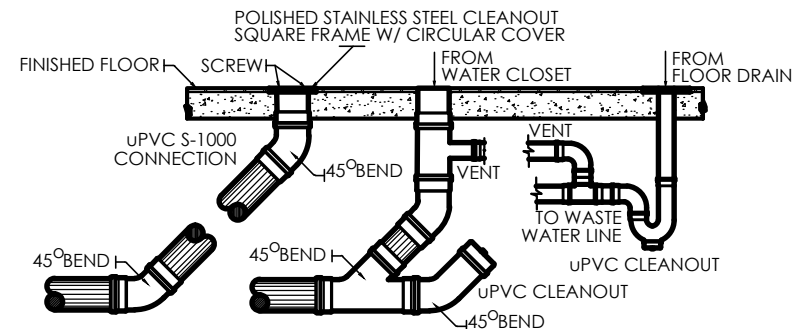
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E-4

MAIN DISTRIBUTION PANEL  
RISER DIAGRAM AND SCHEDULE OF LOADS

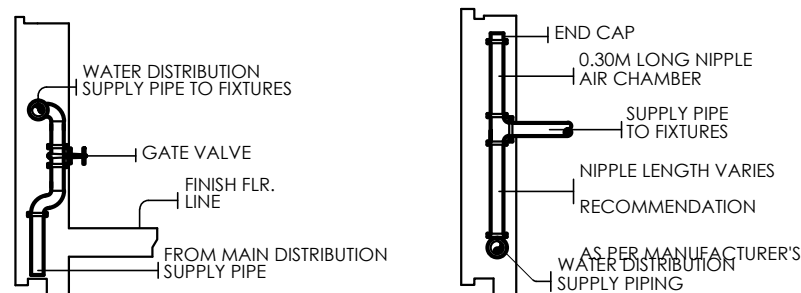
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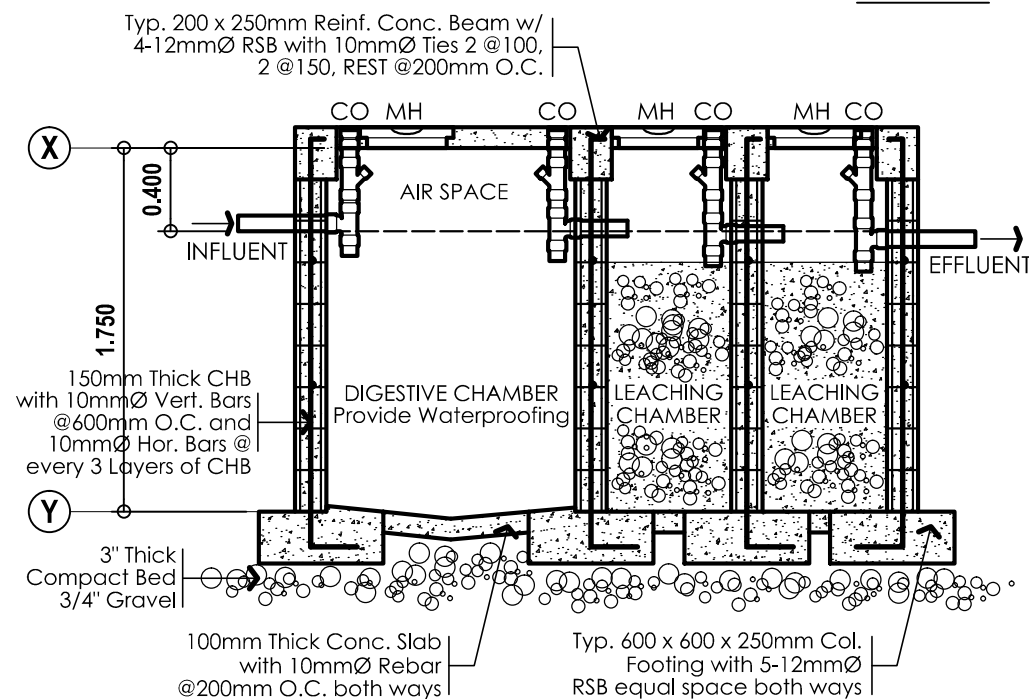
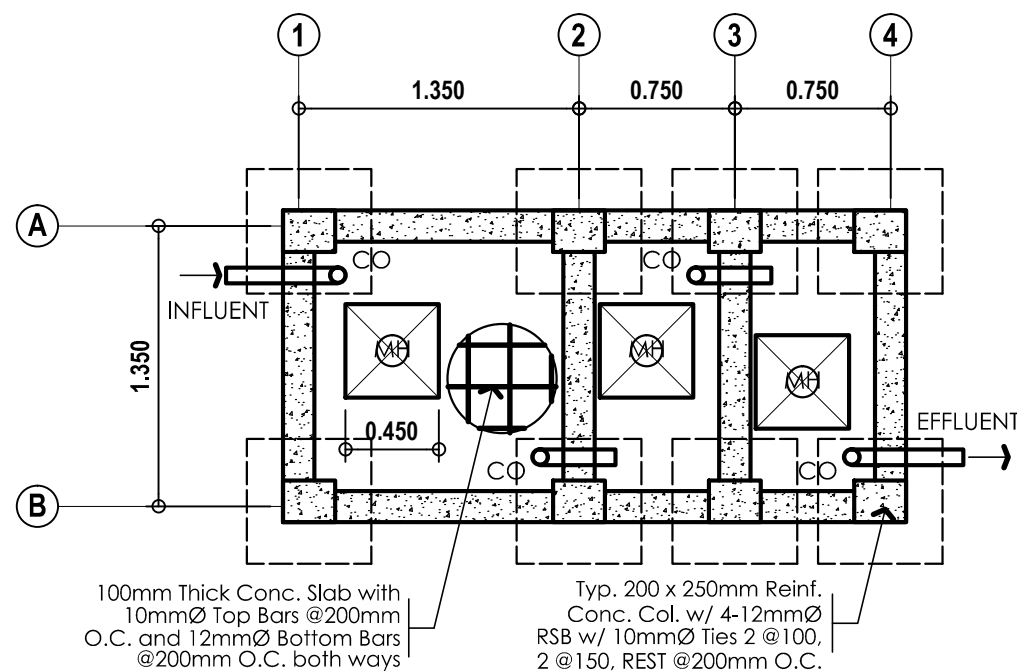
**CATCH BASIN DETAIL**  
SCALE 1:20 MTS



**CLEANOUT, DRAIN & VENT DETAIL**  
SCALE N T S



**GATE VALVE AND AIR CAP DETAIL**  
SCALE N T S



**SEPTIC TANK DETAIL**  
SCALE 1:20 MTS

## GENERAL PLUMBING NOTES AND SPECIFICATION :

REF.RA 1378 NATIONAL PLUMBING CODE OF THE PHILS.

### I EXECUTION OF PLUMBING WORK

ALL PLUMBING WORK INCLUDE HEREIN SHALL BE EXECUTED ACCORDING TO THE REQUIREMENT OF THE PHILIPPINE'S PLUMBING CODE THE RULES AND THE REGULATION OF THE CITY GOVERNMENT, OR MUNICIPALITY

### II NOTIFICATION OF ARCHITECT

COORDINATION WITH DRAWING AND OTHER RELATED SPECIFICATION, THE ARCHITECT SHALL BE NOTED IMMEDIATELY IF ANY DESCREPCANY FOUND THEREIN

### III RELOCATION OF PIPES

PIPES SHALL BE INSTALLED AS INDICATED ANY RELOCATION REQUIREMENT FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF ARCHITECT AND ENGINEER

### IV SANITARY UTILITIES

PROPOSE SANITARY UTILITIES SHALL CONFORMED TOTHE ACTUAL LOCATION, DEPTH AND INVERTED ELEVATION OF ALL EXISTING PIPES AND STRUCTURE

### V FIXTURES

ALL FIXTURES SHALL BE VENTED UNLESS OTHERWISE INDICATED

### VI GRADES OF HORIZONTAL PIPING

RUN ALL HORIZONTAL PIPING PERFECT ALIGNMENT AND AT UNIFORM OF NOT LESS THAN TWO PERCENT (%)

### VII CHANGE OF DIRECTION

ALL CHANGE OF DIRECTION SHALL BE MADE BY APPROPRIATE USE OF THE 45° WYES, LONG SWEEP, QUARTER BEND SIXTH OR EIGHTH TO SIXTEENTH BENDS A SINGLE 1/8 BEND COMBINATION MAY BE USE ON VERTICAL STACK AND SHORT QUARTER BEND MAY BE USE VENT TYPES

### VIII PROHIBITED FITTINGS

NO DOUBLE HUBS, DOUBLE TEE BRANCH SHALL BE USE ON HORIZONTAL SOIL WASTE LINE, THE DRILLING OR TAPPING OF HOUSE DRAIN WASTE OR VENT PIPES AND SADDLE HUBS AND VENT PROHIBITED

### IX SLEEVES (NOT APPLICABLE)

PROVIDE PIPE SLEEVES AT WALLS COLUMN SLAB ONE SLAB ONE BIGGER THAN ACTUAL SIZE PASSING THROUGH WALLS OR SLAB TO PIPES FROM BREAKAGE

### X CLEANOUT PIPES

CLEANOUT ARE REQUIRE UNDER THE FOLLOWING CONDITION  
1. EVERY CHANGE IN HORIZONTAL DIRECTION EXCEEDING 22 1/2 ONE HALF DEGREES.  
2. 1500mm INSIDE THE PROPERTY LINE THE DRAIN CONNECTOR  
3. EVERY 150mmØ IN HORIZONTAL RUN PIPE  
4. AT THE END OF THE HORIZONTAL PIPE LINE

### XI DEAD END AVOIDED

A DEAD END IN THE INSTALLATION OF ANY PLUMBING SYSTEM IS PROHIBITED

XII NO REVISION IN THE DESIGN SHALL BE DONE WITH OUT THE PROPER KNOWLEDGE AND APPROVAL OF THE DESIGNER AND THE OWNER ANY SUCH REVISION DONE WITHOUT THE APPROVAL SHALL COURSE RESPONSIBILITY OF THE DESIGNER/ARCHITECT TO CEAS A WHOLE

XIII NO PIPING WORK FIXTURE OR EQUIPMENT SHALL BE CONCEALED OR COVERED BY ANY MAINS BEFORE THEY HAVE BEEN PRESSURE TESTED, FLOW TESTED AND INSPECTED BY THE ARCHITECT HAVING THE JURISDICTION OF THE WORK

XIV ALL WORK SHALL BE COMPLETELY INSTALLED AND TESTED AS REQUIRED BY THE SECTION 1378 AND SHALL BE LEAKTIGHT A T Q

XV UNLESS OTHERWISE NOTED AND SPECIFIED, USE NELTEX BRAND TO ALL MATERIALS OF ROUGHING OR AND APPROVED BY EQUIVALENT



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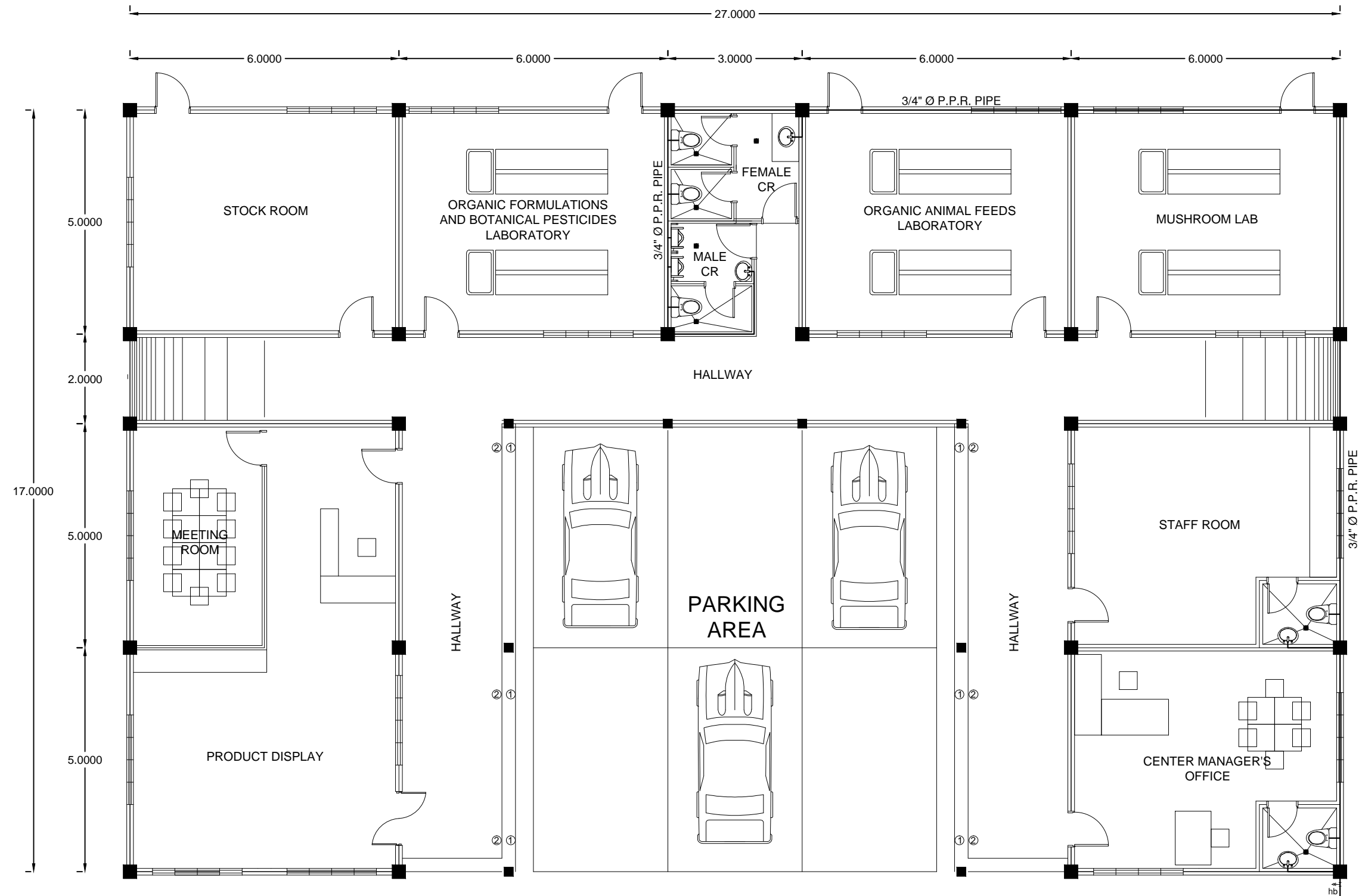
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RECOMMENDED BY:  
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VICE PRESIDENT FOR ADMIN. AND FINANCE

APPROVED BY:  
DR. GREGORIO J. RODIS  
UNIVERSITY PRESIDENT

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## GROUND FLOOR WATER LINE

SCALE 1:100 M

TAP TO  
NEAREST  
WATER LINE  
SYSTEM



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TECHNICAL WORKING GROUP FOR INFRASTRUCTURE  
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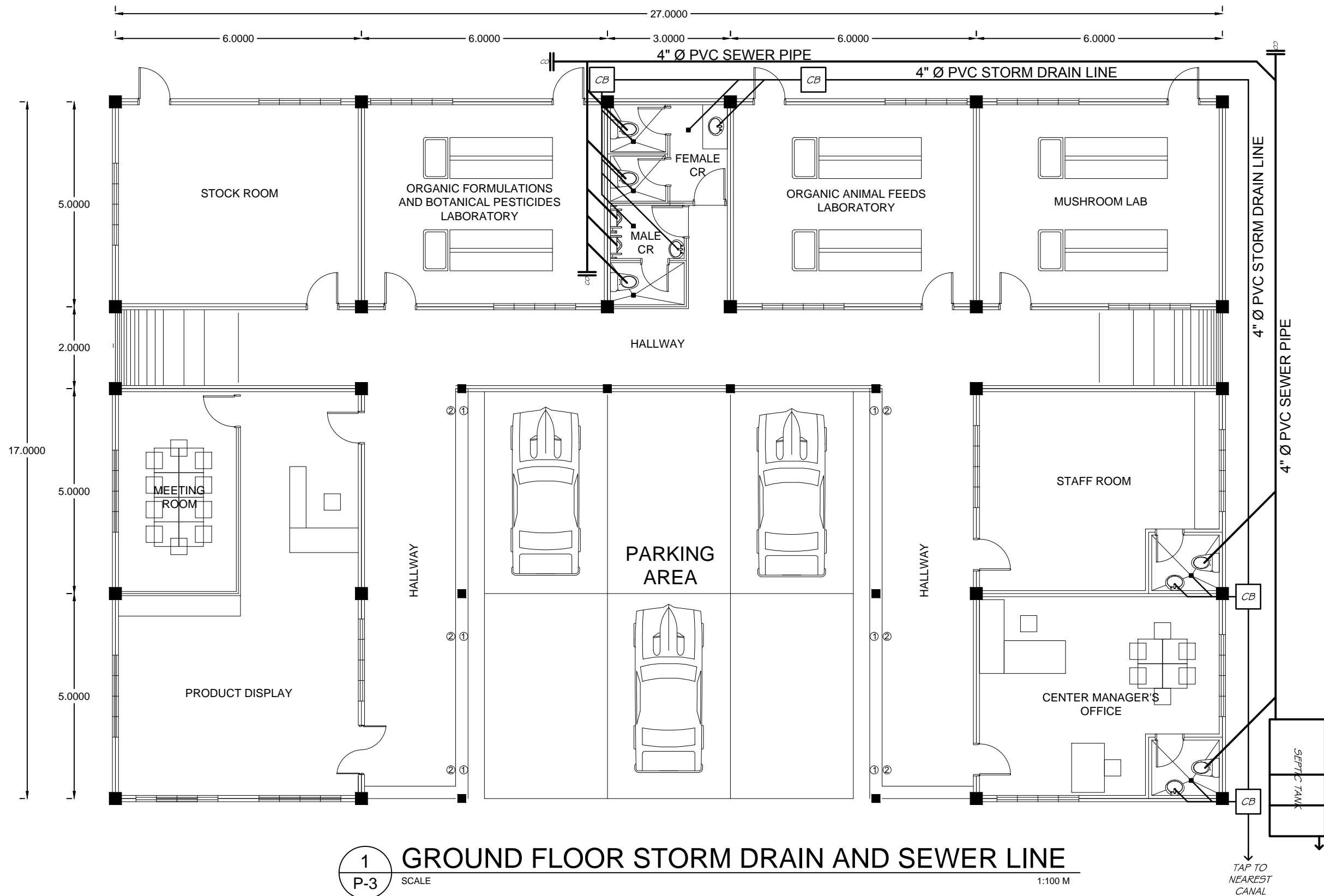
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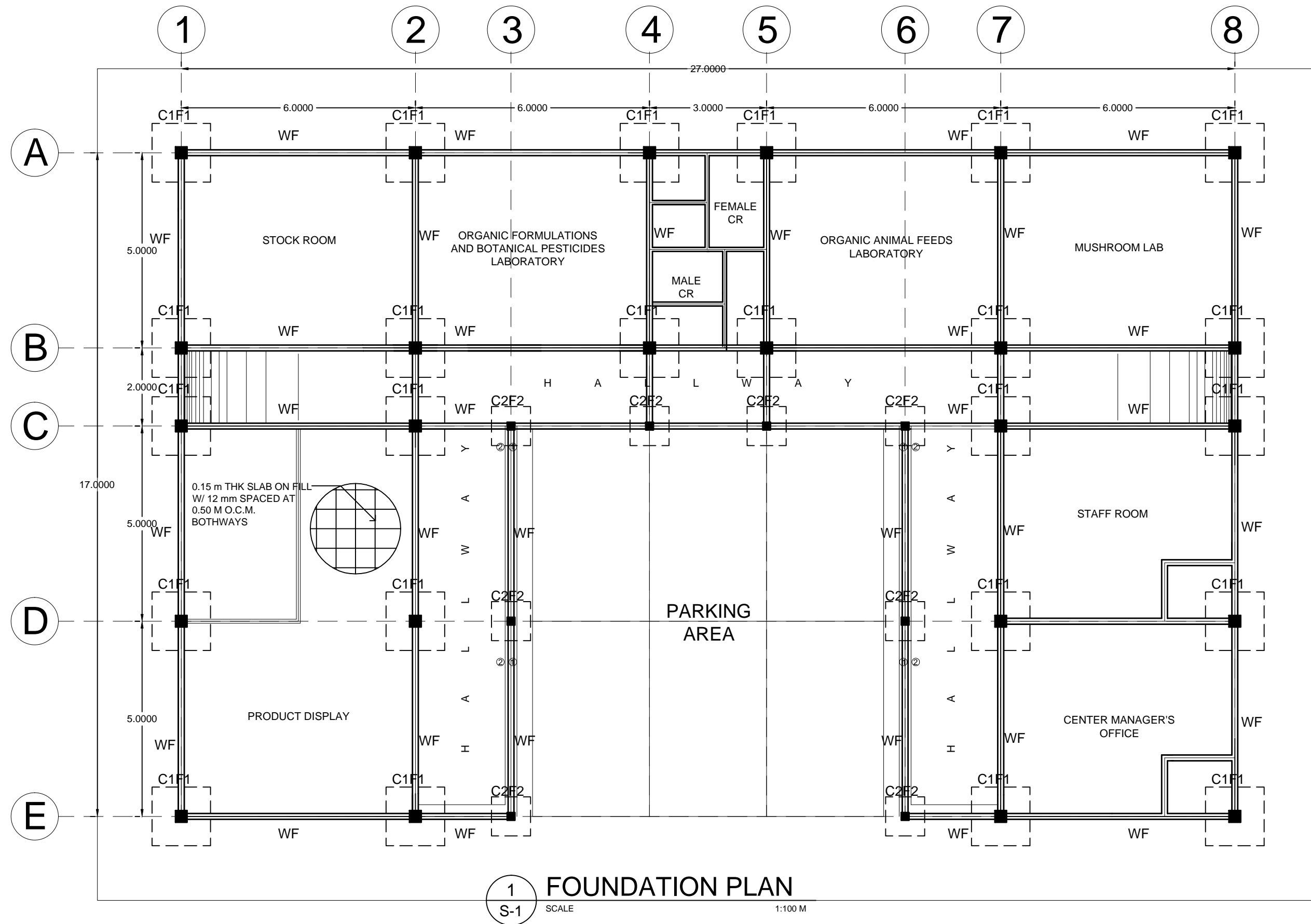
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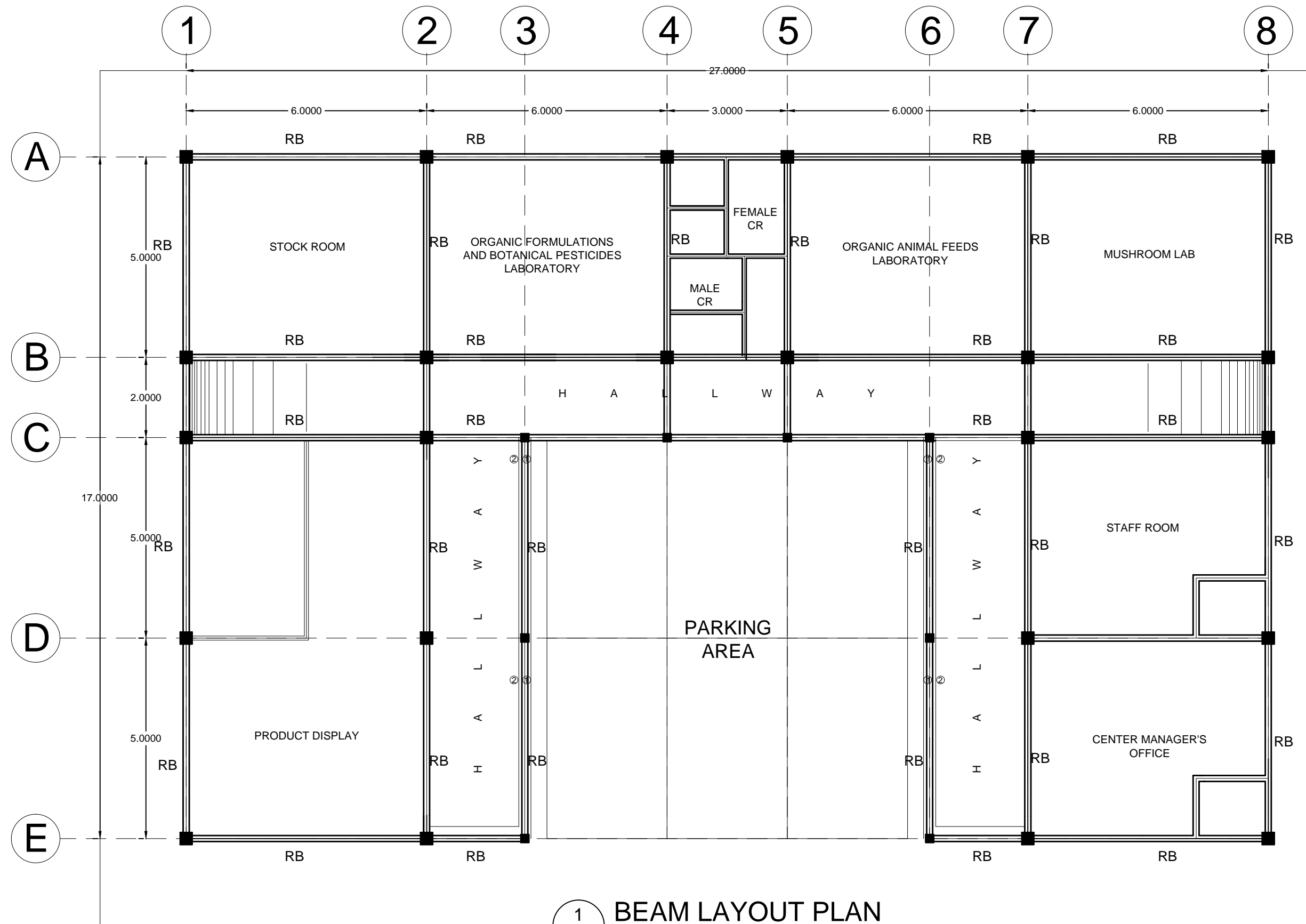
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


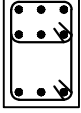
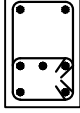
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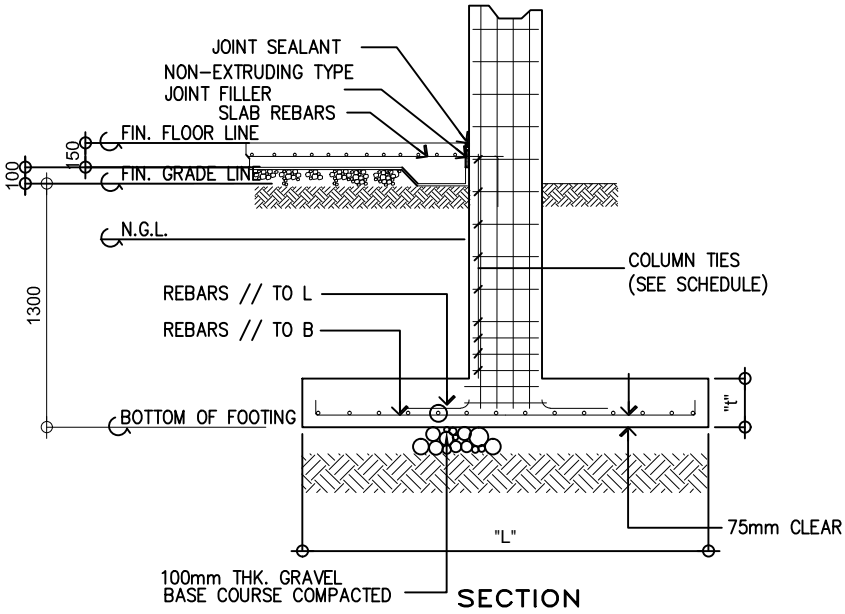
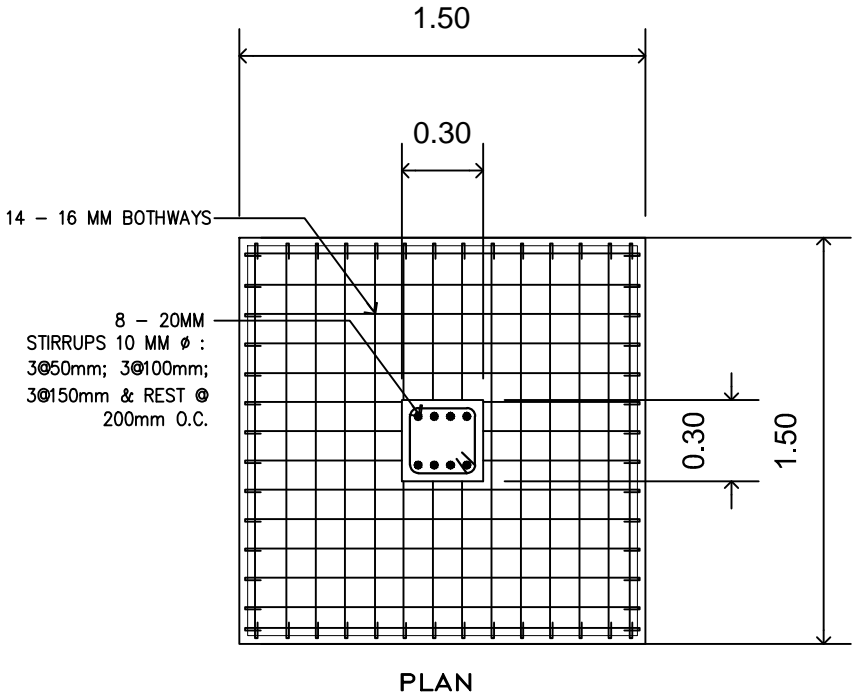
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S 16



1 BEAM LAYOUT PLAN  
S-2 SCALE 1:100 M

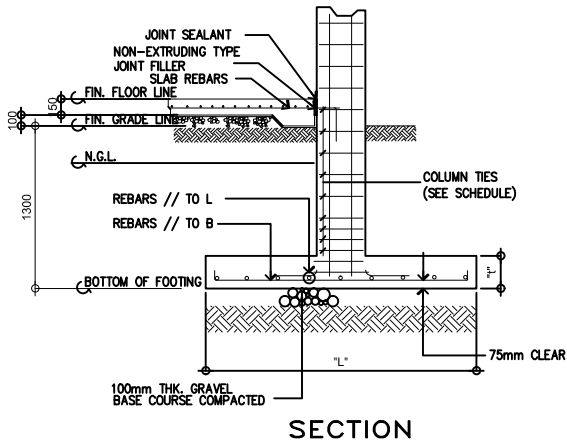
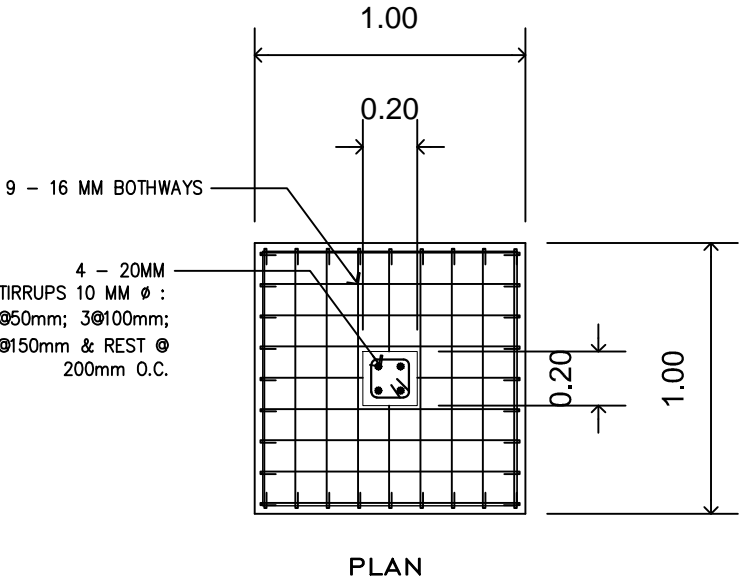
SCHEDULE OF BEAMS AND COLUMNS

DESIGNATION	DEPTH (MM) (D)	WIDTH (MM) (W)	NUMBER OF REBARS		STIRRUPS 10mm def. bar
			@ SPRT	@ MDSP	
C1	300	300	8-20mm 	8-20mm 	3@50mm; 3@100mm; 3@150mm & REST @ 200mm O.C.
C2	200	200	4-20mm 	4-20mm 	3@50mm; 3@100mm; 3@150mm & REST @ 200mm O.C.
RB	300	200	9-16mm 	9-16mm 	3@50mm; 3@100mm; 3@150mm & REST @ 200mm O.C.



C1F1

1 C1F1 ISOLATED FOOTING DETAILS  
S-3 SCALE NTS



C2F2

2 C2F2 ISOLATED FOOTING DETAILS  
S-3 SCALE NTS



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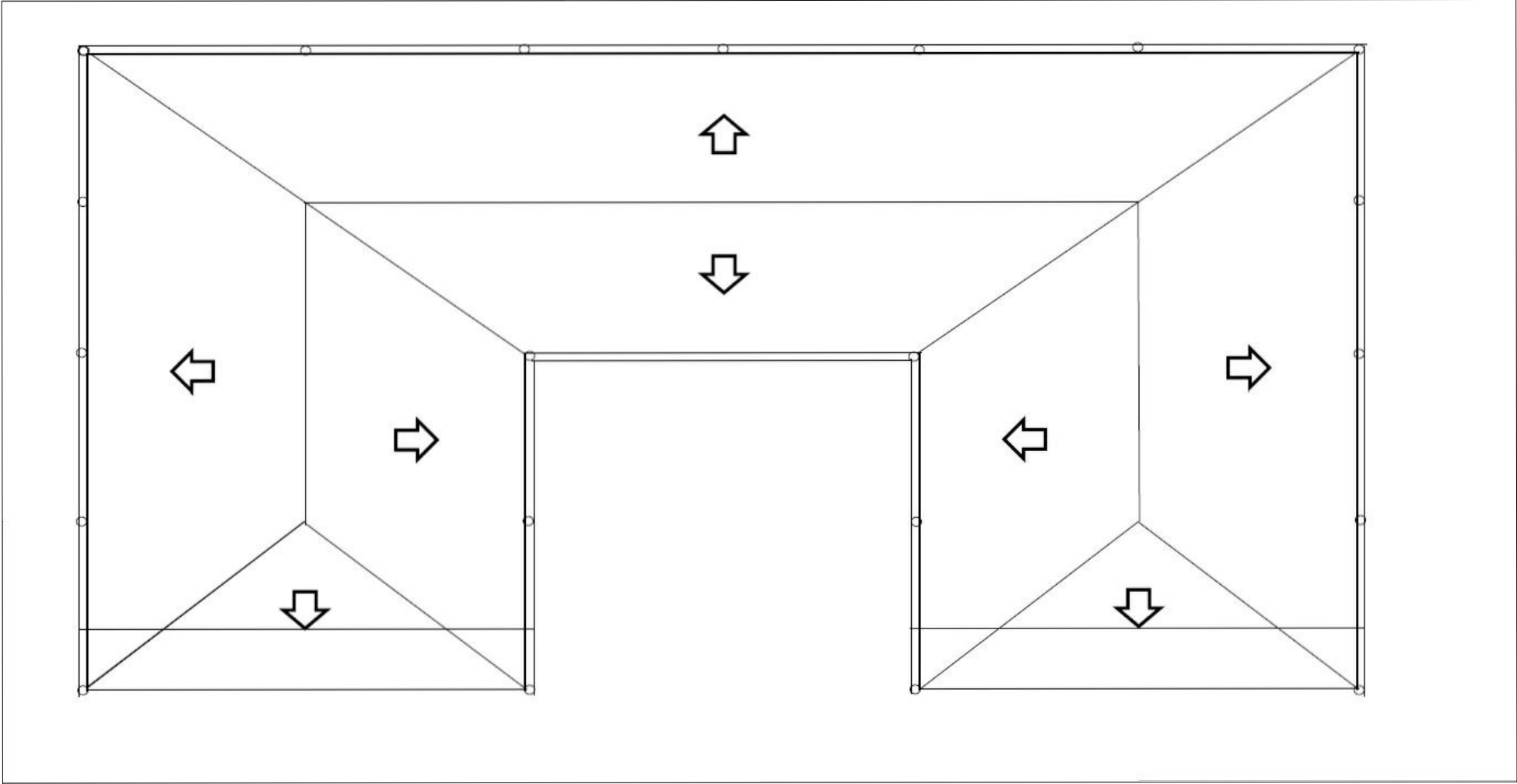
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1 ROOF PLAN  
S-4 SCALE NTS



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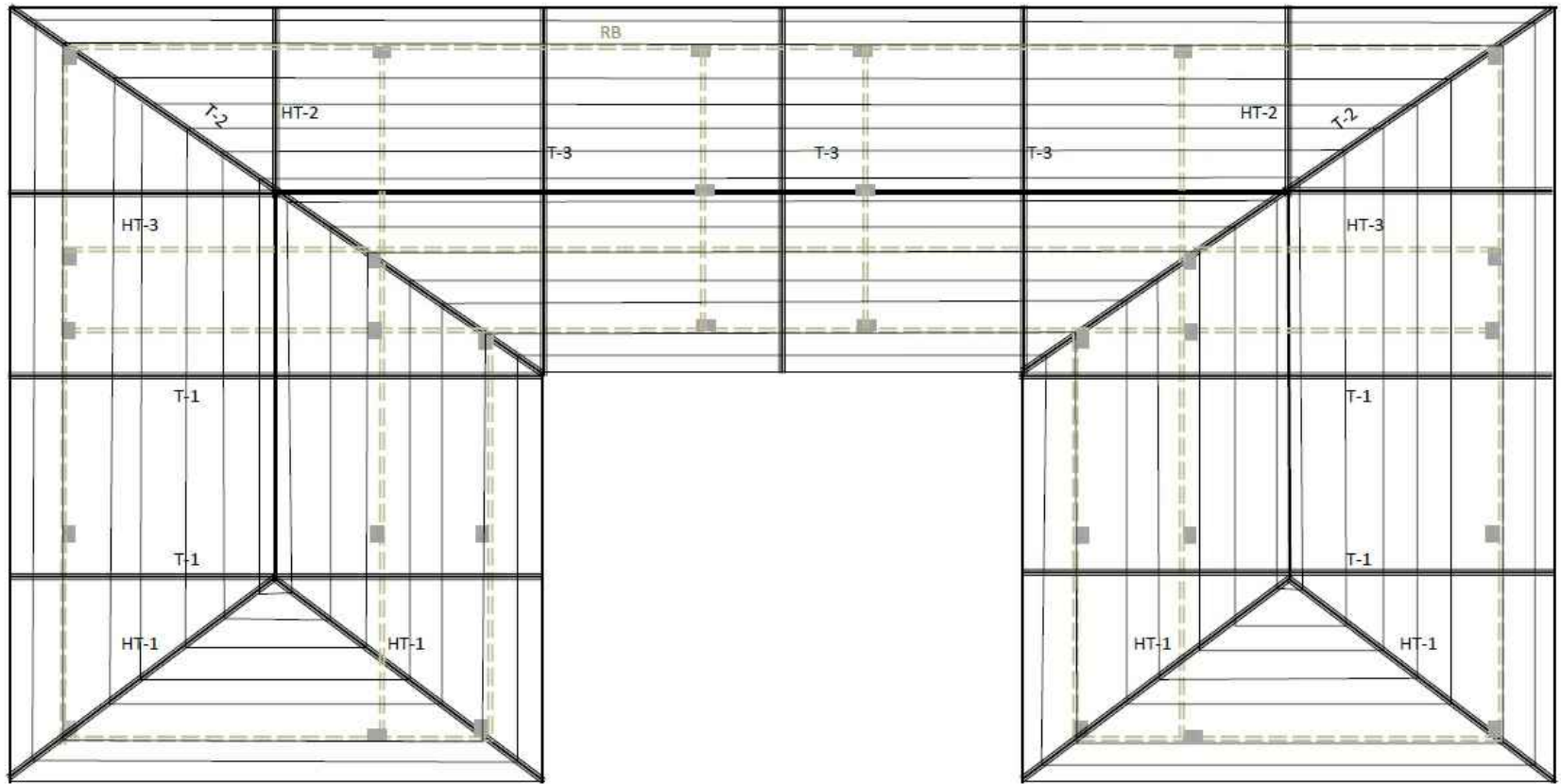
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1 ROOF FRAMING PLAN  
S-5 SCALE NTS



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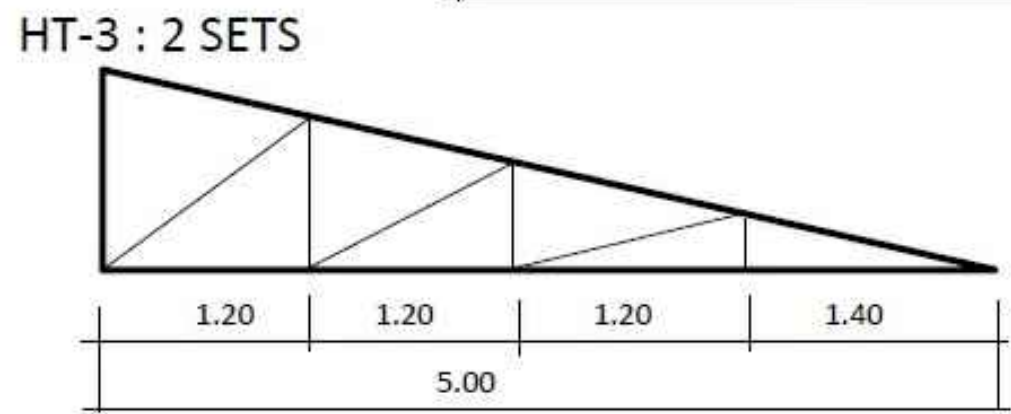
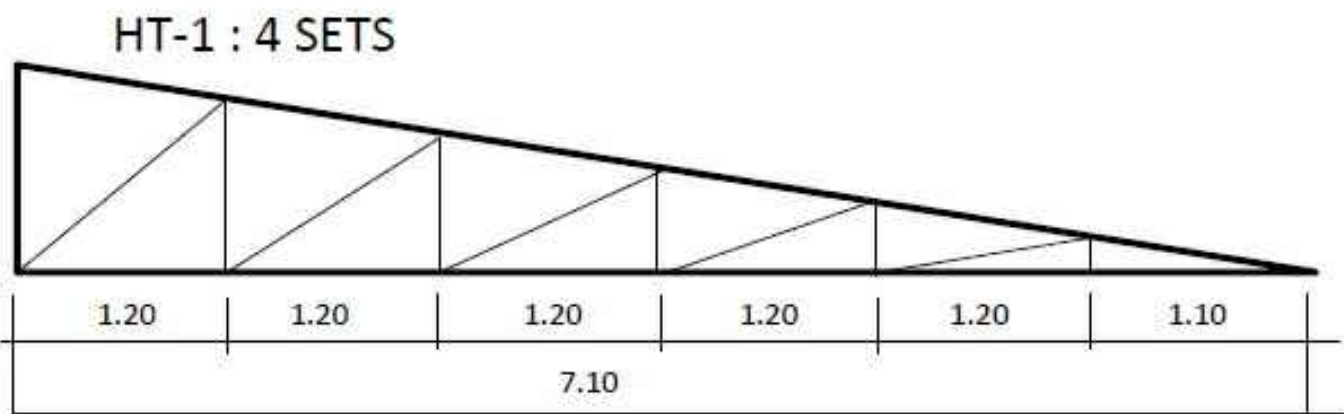
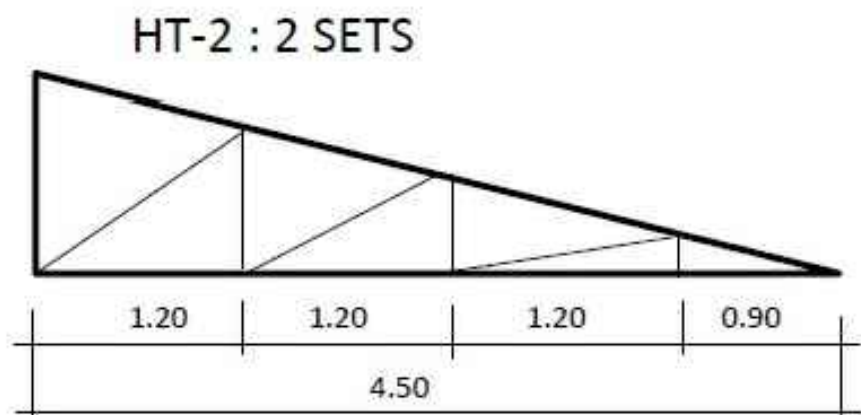
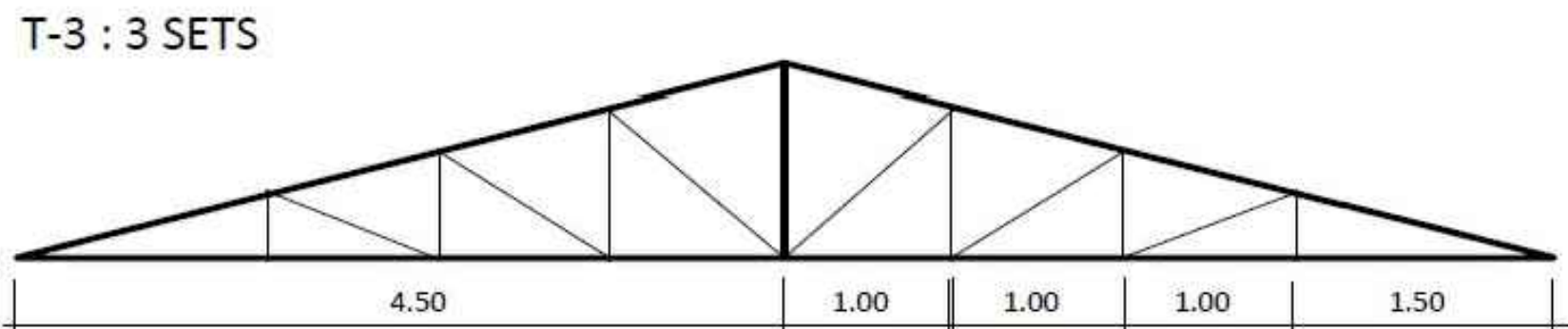
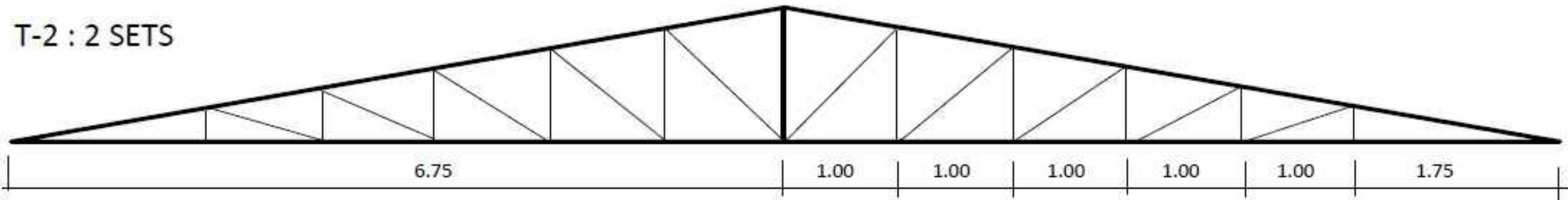
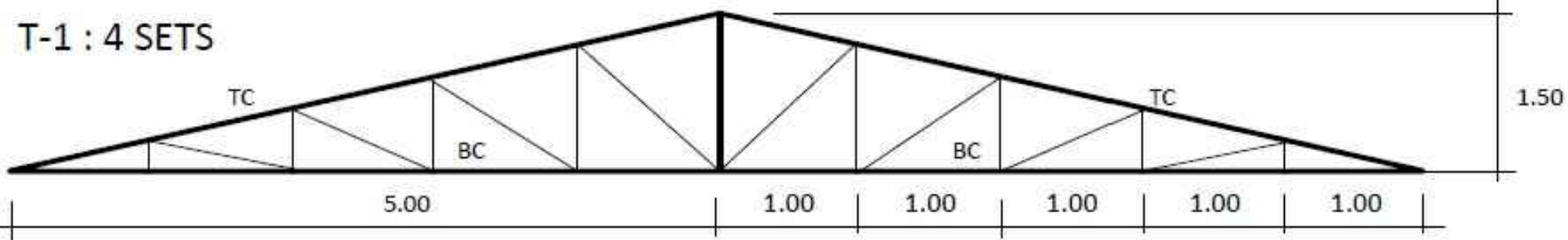
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**1 TRUSS DETAIL PLAN**  
S-6 SCALE NTS



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