



1
A-1
PERSPECTIVE VIEW
SCALE : N T S

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REPUBLIC OF THE PHILIPPINES
OFFICE OF THE CITY/MUNICIPAL
ENGINEER/BUILDING OFFICIAL

DISTRICT/CITY/MUNICIPALITY

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MECHANICAL

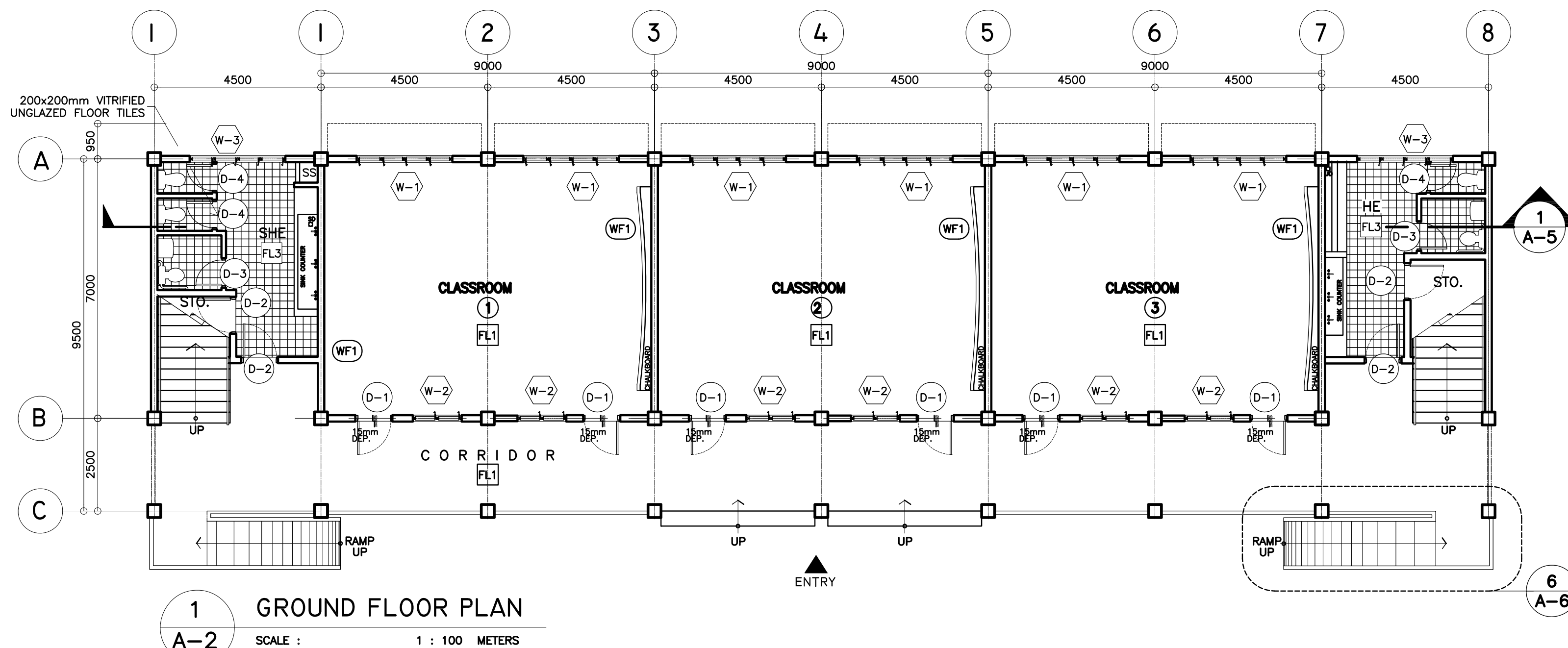
SCHEDULE OF FINISH

FLOORS :

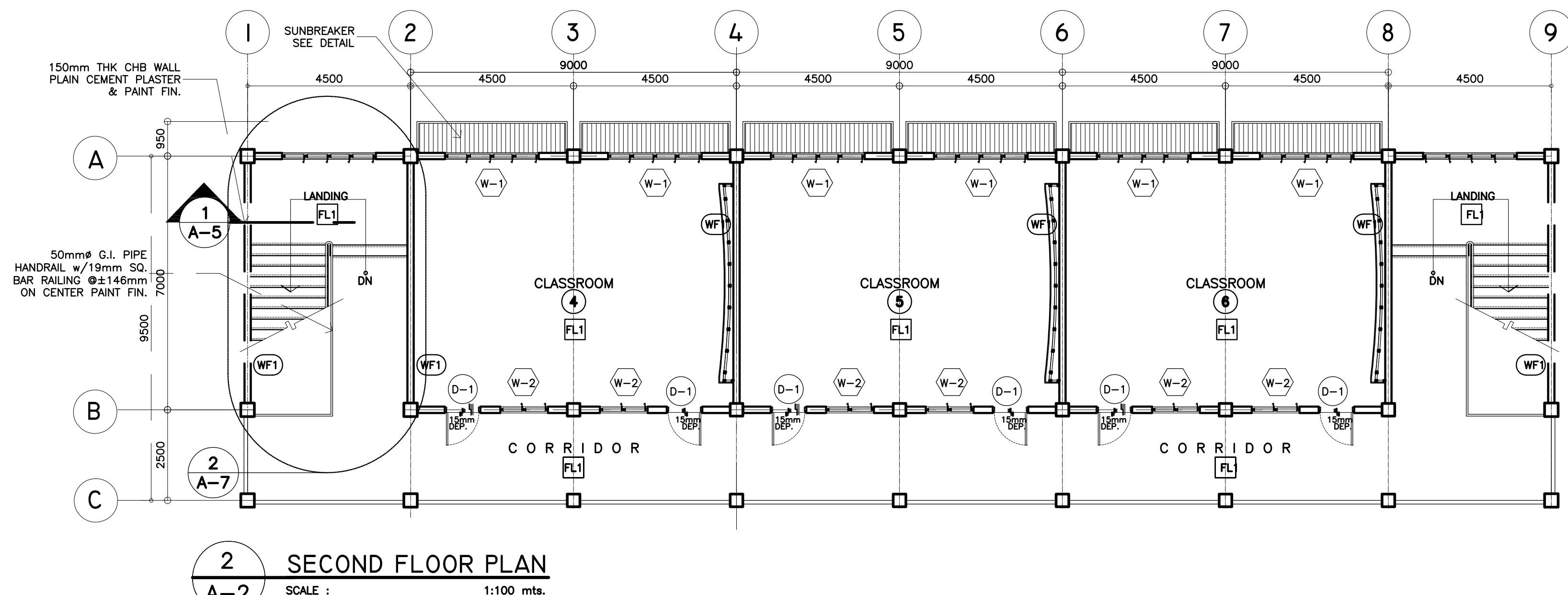
- FL1 - PLAIN CEMENT FLOOR FINISH
- FL2 - PLAIN CEMENT FLOOR ROUGH WITH GROOVES
- FL3 - 200X200 VITRIFIED FLR TILES (UNGLAZED)
- FL4 - 300X300 VINYL TILES
- FL5 - PLAIN CEMENT FLOOR FINISH WITH WATER PROOFING

WALLS :

- WF1 - 150 MM THK. CHB W/ PLAIN CEMENT PLASTER FIN (PAINTED)
- WF2 - 150 MM THK. CHB W/ PLAIN CEMENT PLASTER FIN (PAINTED) PROVIDE GROOVES
- WF3 - 200X200 VITRIFIED WALL TILES (GLAZED)
- WF4 - 100 MM THK. CHB W/ PLAIN CEMENT PLASTER FIN (PAINTED)
- WF5 - 50 MM SQ. CYCLONE WIRE ON 75mm \varnothing G.I. PIPE VERT @1200mm O.C. & 50mm \varnothing G.I. PIPE HOR. @600mm O.C.



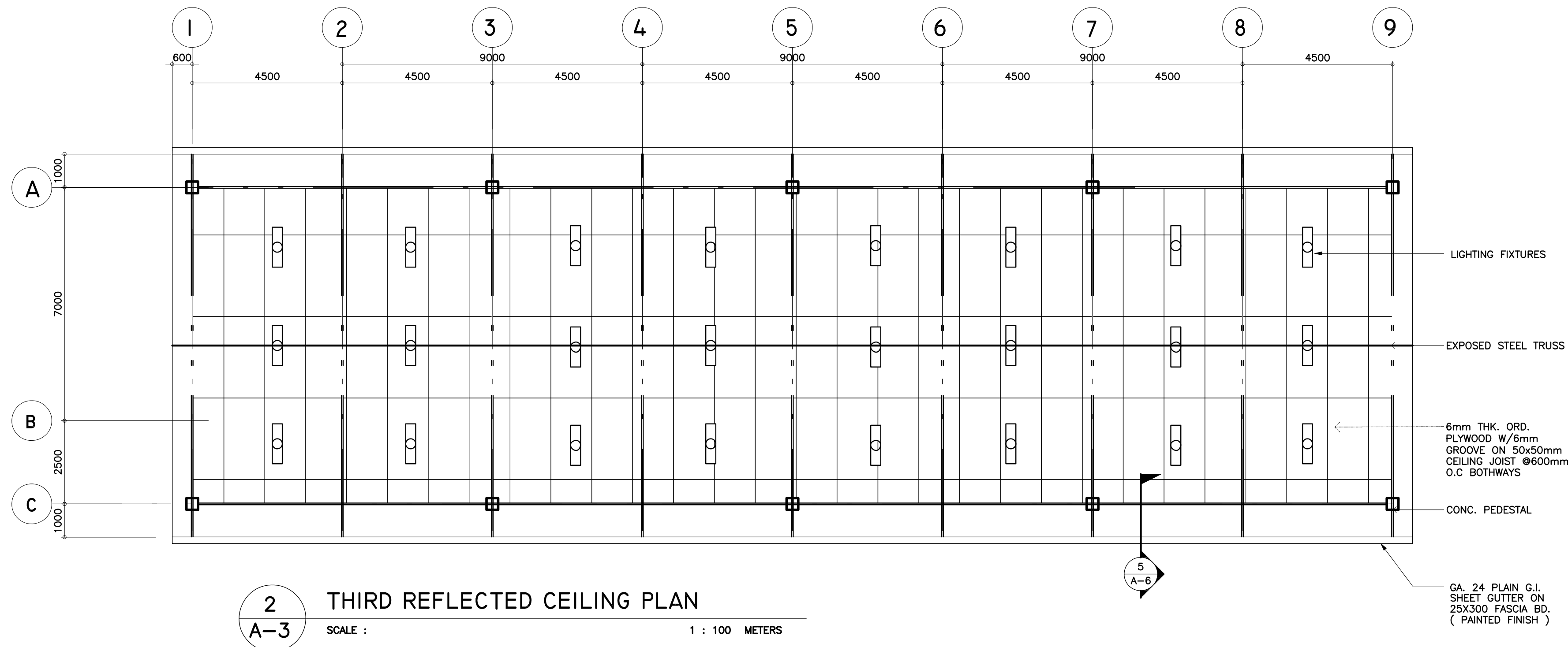
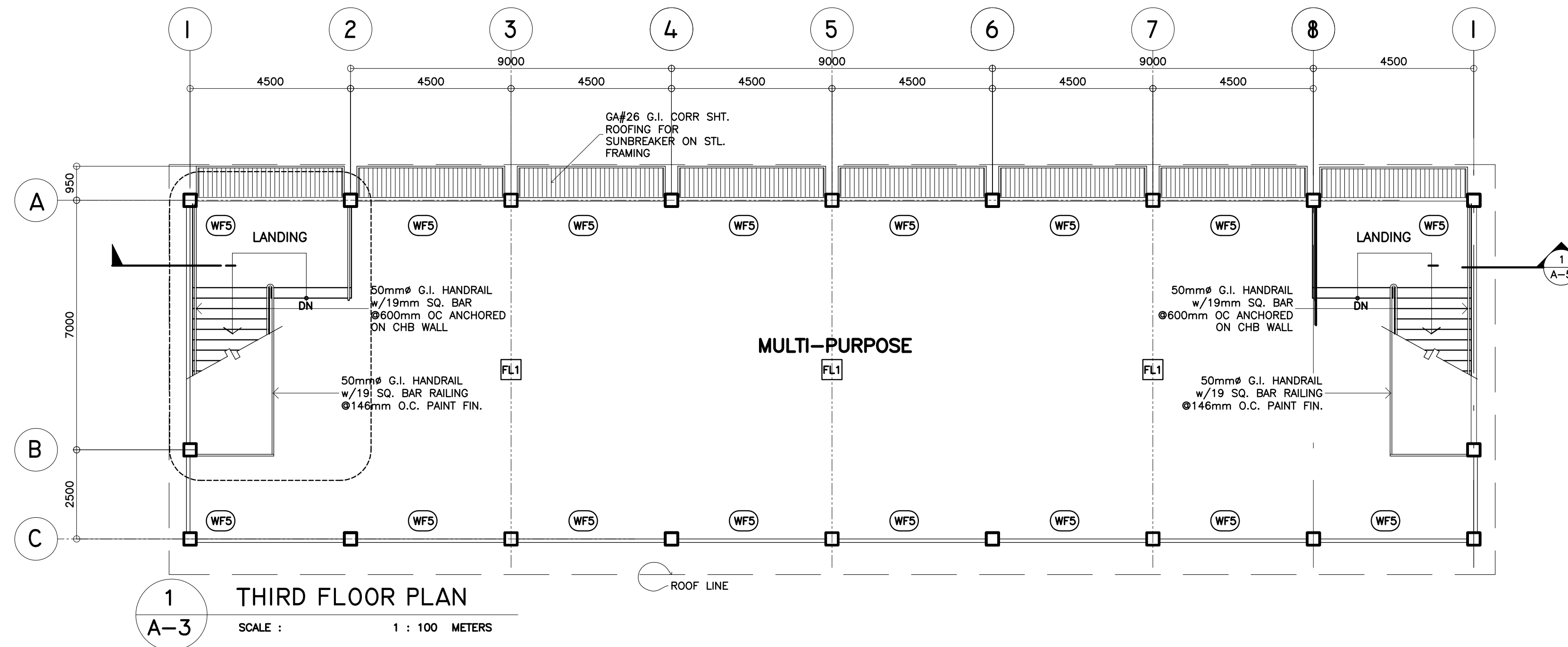
1 GROUND FLOOR PLAN
A-2 SCALE : 1 : 100 METERS



2 SECOND FLOOR PLAN
A-2 SCALE : 1:100 mts.

<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</p>	CONSULTANT / DESIGNER	REVIEWED BY:	RECOMMENDING APPROVAL :	APPROVED FOR ACCREDITATION :	CONCURRED :	PROJECT TITLE :	PROJECT NO: 01-002	OWNER :	SHEET NO:
	ALBERT Z. DE BELEN	ENRIQUE M. MONTAPAY	SOFIA T. SANTAGO	GILBERTO S. REYES	RAMON C. BACANI	THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE	DESIGNED BY: AZB	DEPARTMENT OF EDUCATION DepED	A-2
	ARCHITECT IV PRC NO. : 0010990 TIN : 149 460 161 PTR NO. : DATE : 27 OCT. 2002	CHIEF ARCHITECTURAL DIVISION BUREAU OF DESIGN, DPWH	OIC, DIRECTOR III BUREAU OF DESIGN, DPWH	OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH	UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)	ENCODDED BY: Max C	CHECKED BY:	SHEET CONTENTS :	8
						LOCATION :	DATE : 01 03	GROUND & SECOND FLOOR PLAN	

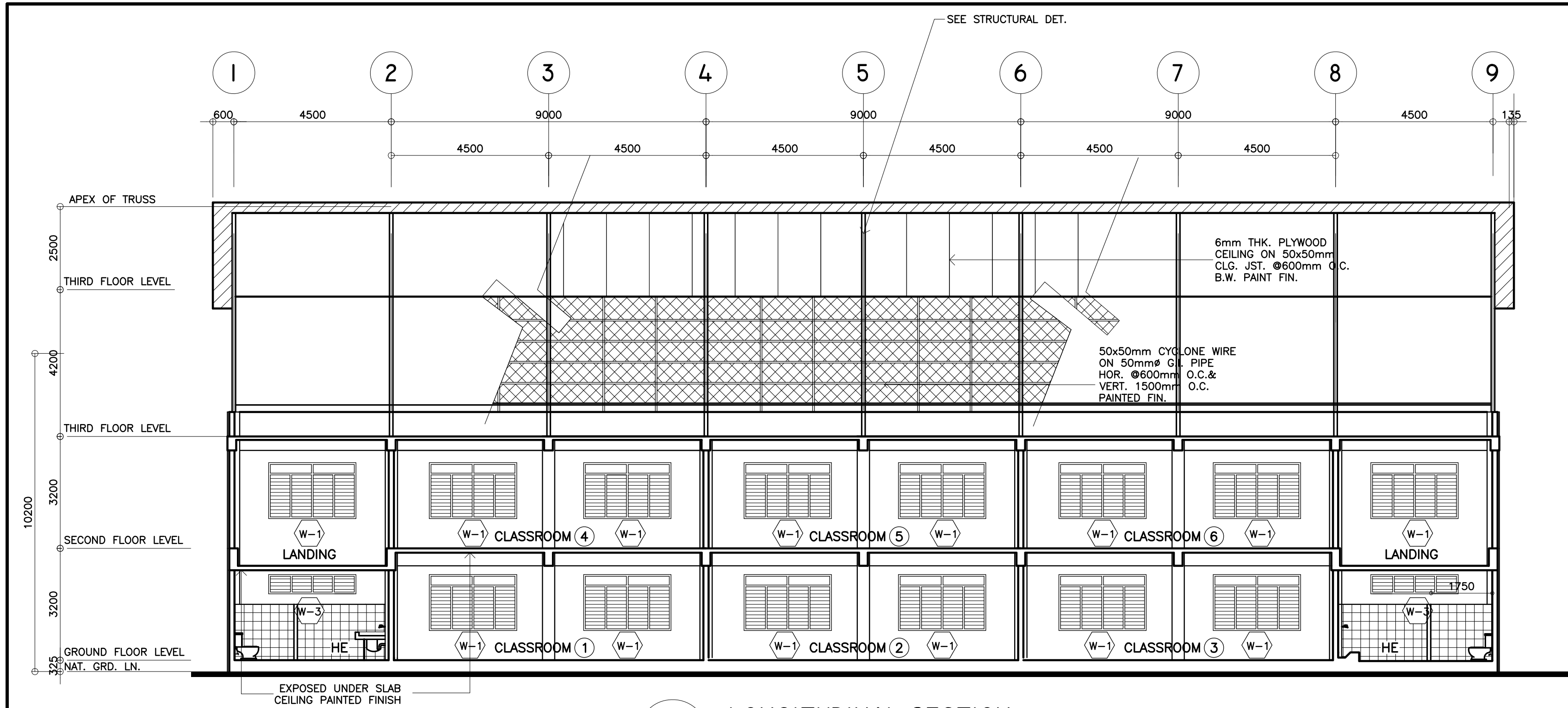
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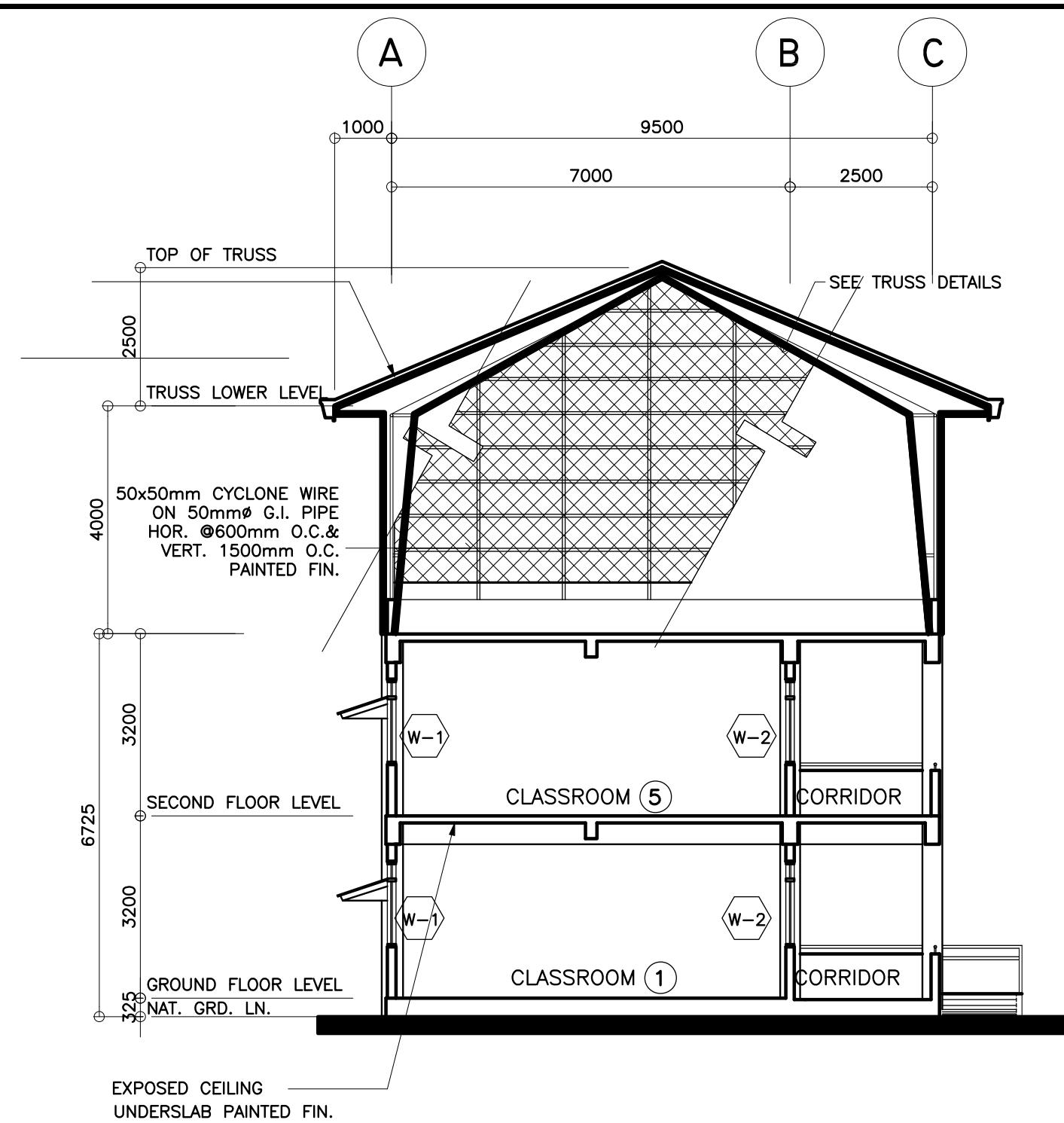
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</p>	<p>CONSULTANT / DESIGNER ALBERT Z. DE BELEN ARCHITECT IV PRC NO. : 0010990 TIN : 149 460 161 PTR NO. : DATE : 27 OCT. 2002</p>	<p>REVIEWED BY: EMMANUEL M. MONTAPAY CHIEF / ARCHITECTURAL DIVISION BUREAU OF DESIGN, DPWH</p>	<p>RECOMMENDING APPROVAL : SOFIA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH</p>	<p>APPROVED FOR ACCREDITATION : GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH</p>	<p>CONCURRED : RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)</p>	<p>PROJECT TITLE : THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE LOCATION :</p>	<p>PROJECT NO: 01-002 DESIGNED BY: AZB ENCODED BY: Max C CHECKED BY: DATE : 01 03</p>	<p>OWNER : DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : THIRD FLOOR PLAN REFLECTED CEILING PLAN</p>	<p>SHEET NO: A-3 8</p>
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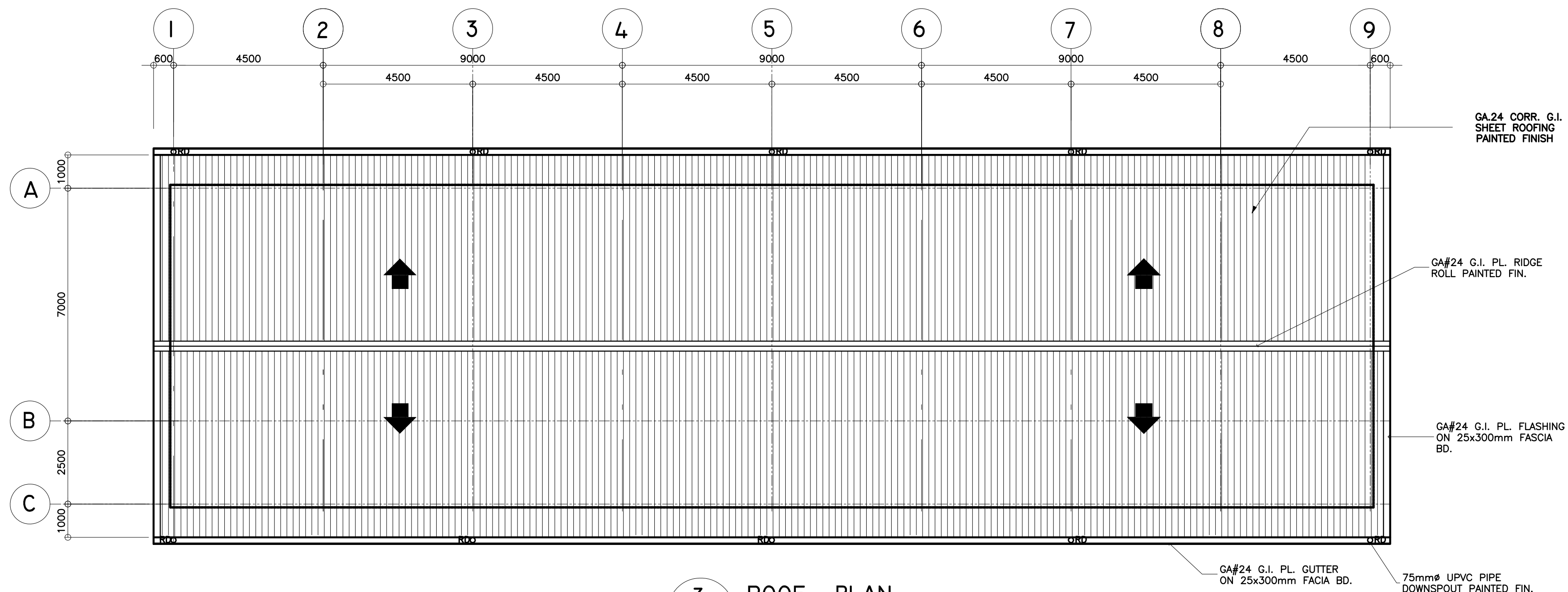




1 LONGITUDINAL SECTION
A-5 SCALE : 1 : 100 METERS



2 CROSS SECTION
A-5 SCALE : 1 : 100 METERS

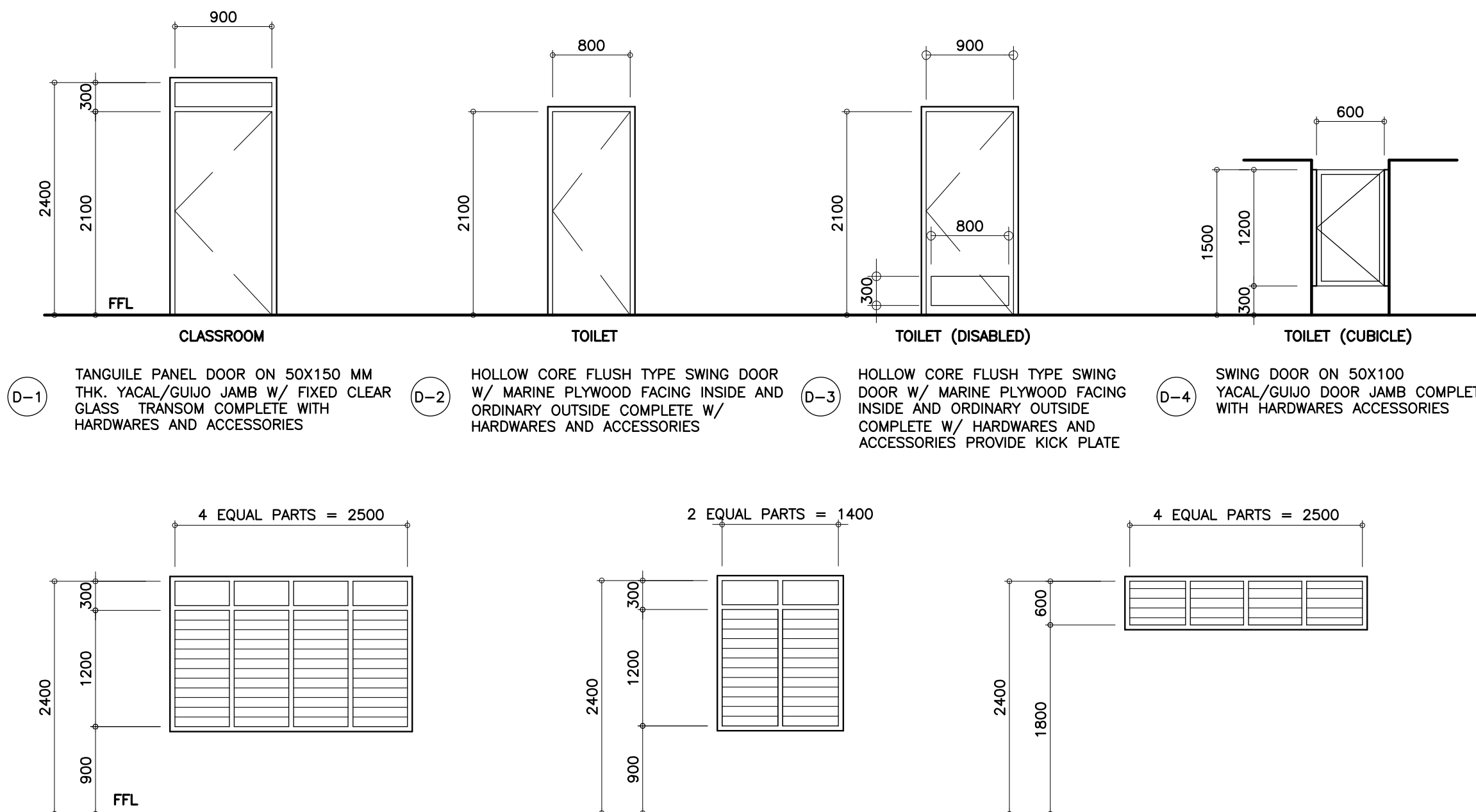


3 ROOF PLAN
A-5 SCALE : 1 : 100 METERS

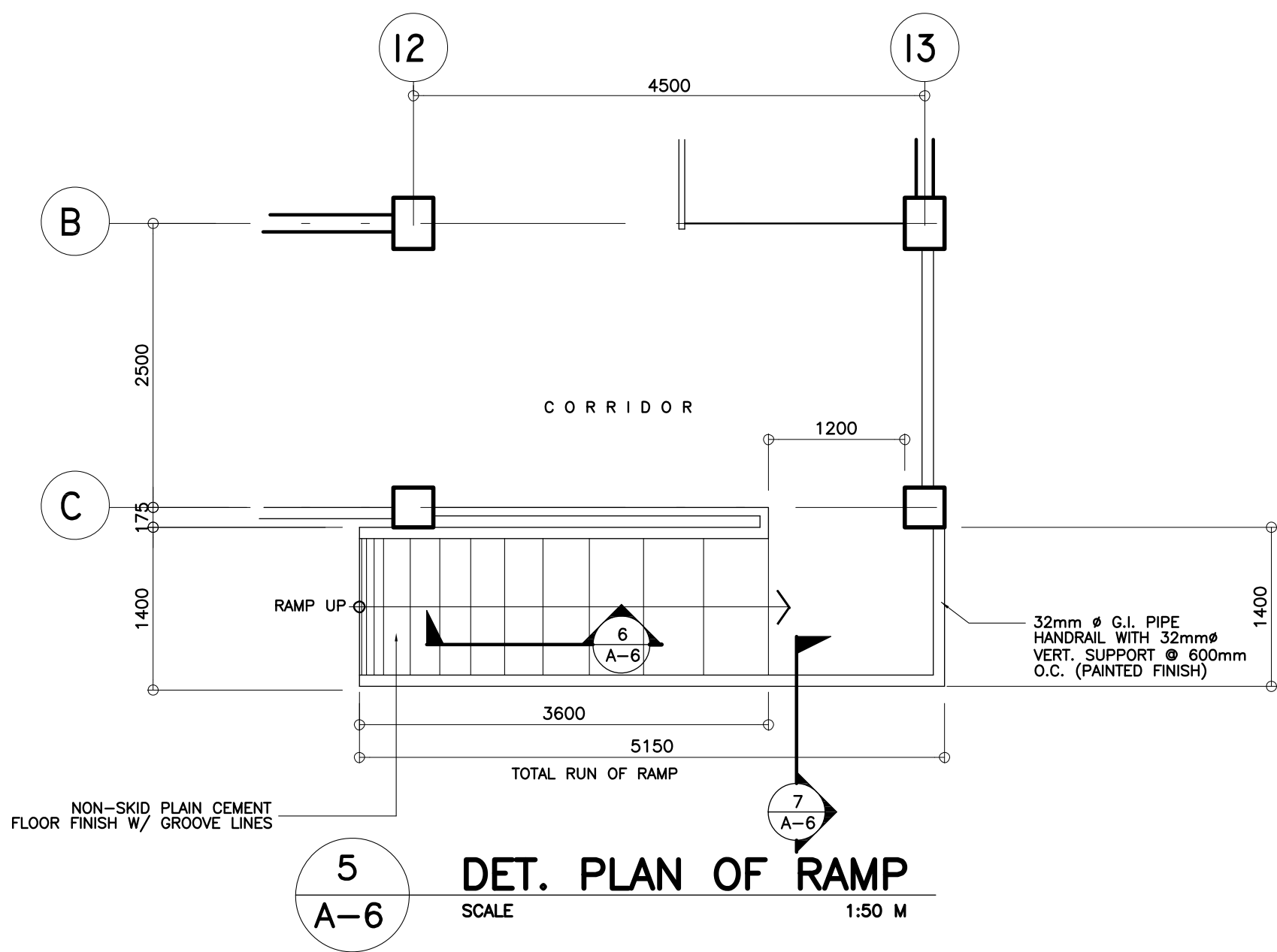
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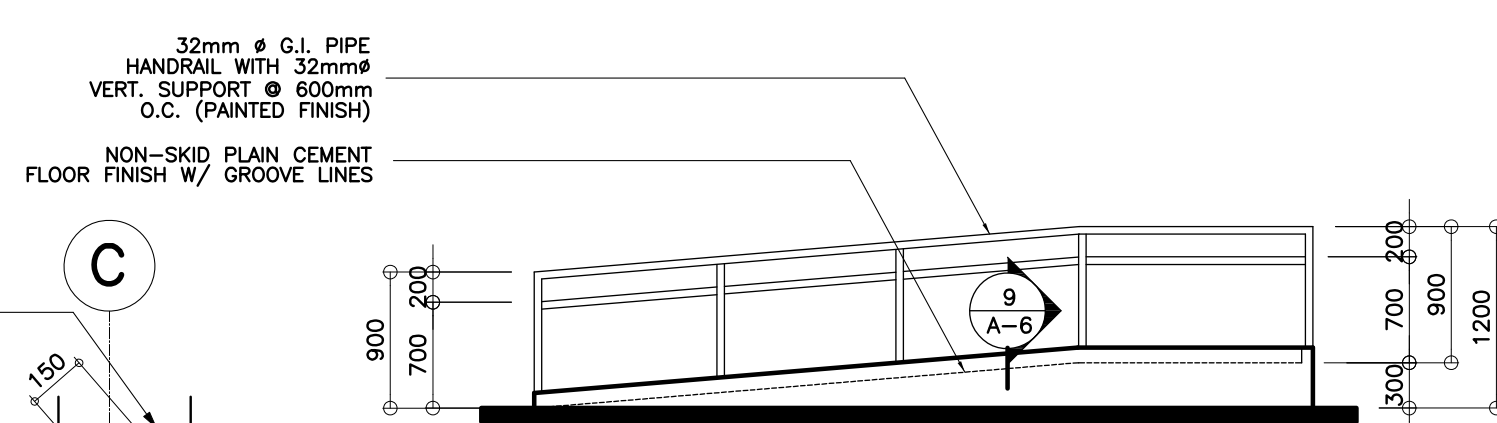
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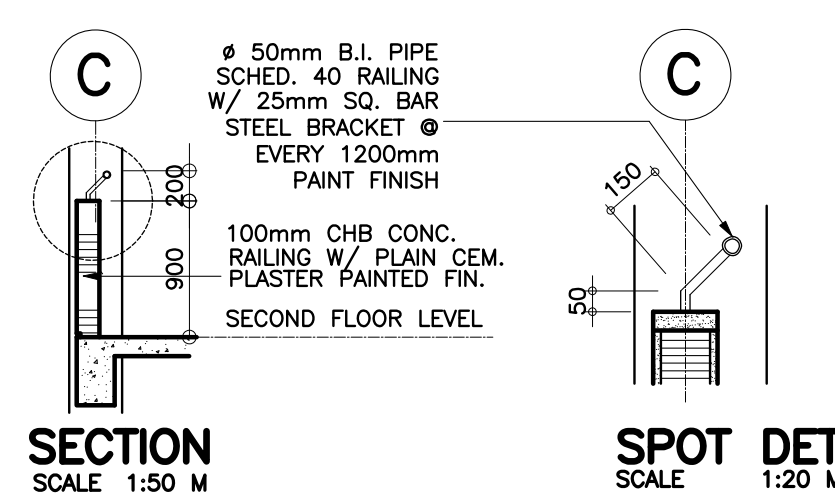
1 SCHEDULE OF DOORS & WINDOWS
SCALE : 1 : 50 METERS



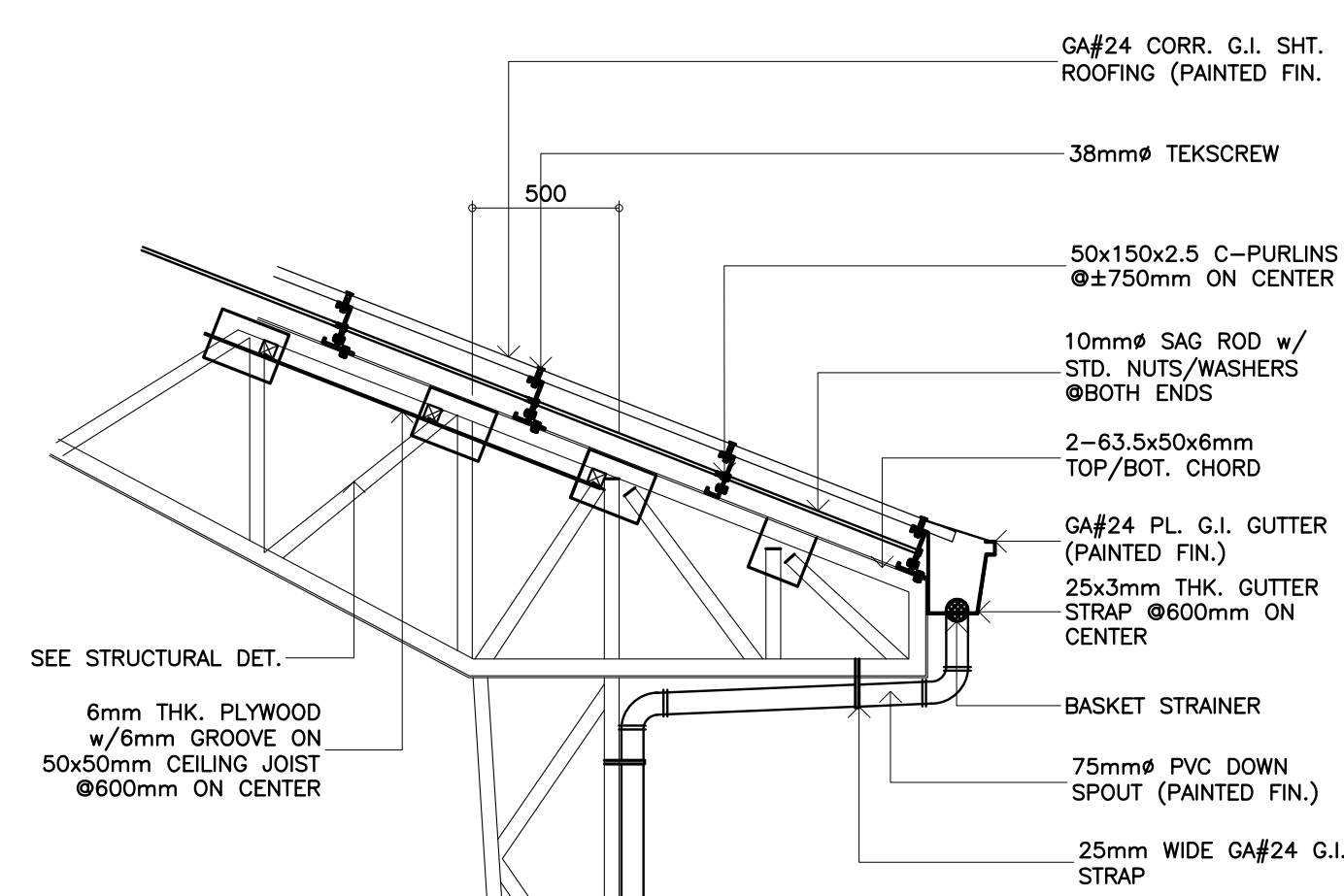
5 DET. PLAN OF RAMP
SCALE 1:50 M



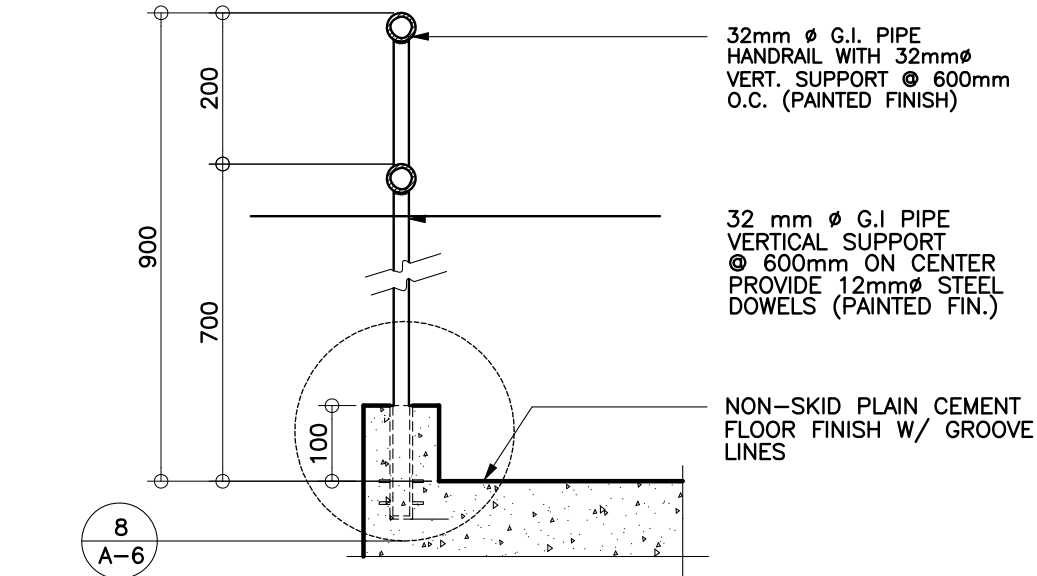
6 DET. ELEVATION OF RAMP
SCALE 1:50 M



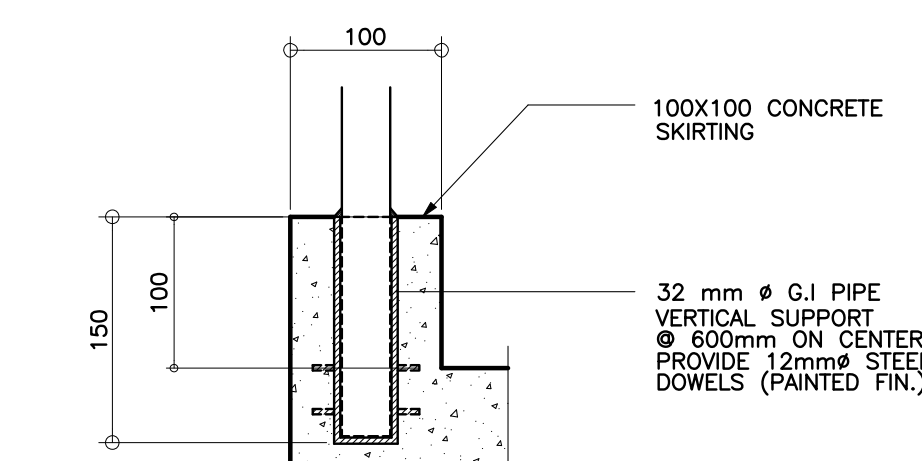
3 DETAIL OF BALCONY RAILING
SCALE AS SHOWN



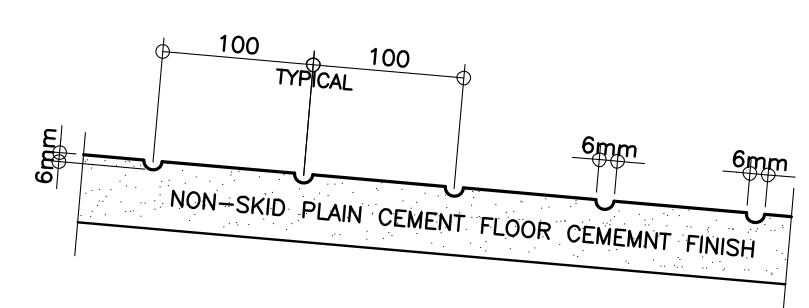
2 EAVES SECTION
SCALE 1 : 20 M



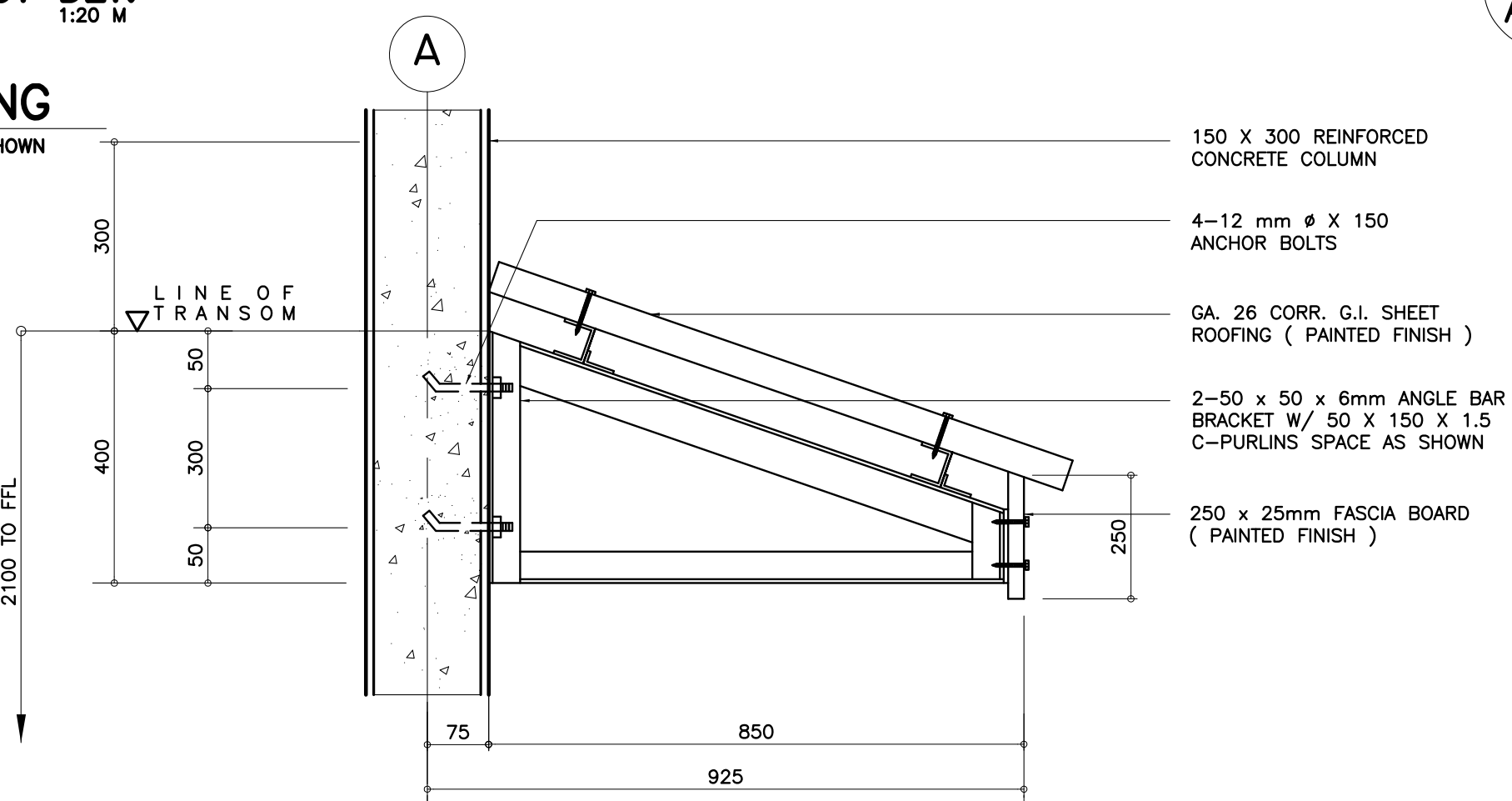
7 DETAIL SECTION
SCALE 1:10 M



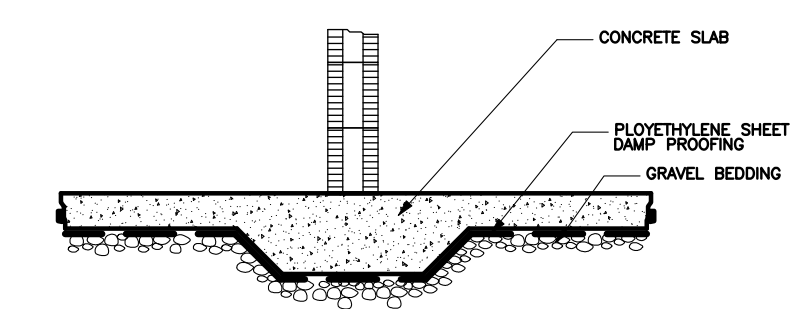
8 SPOT DETAIL
SCALE 1:5 M



9 SPOT DETAIL
SCALE 1:50 M



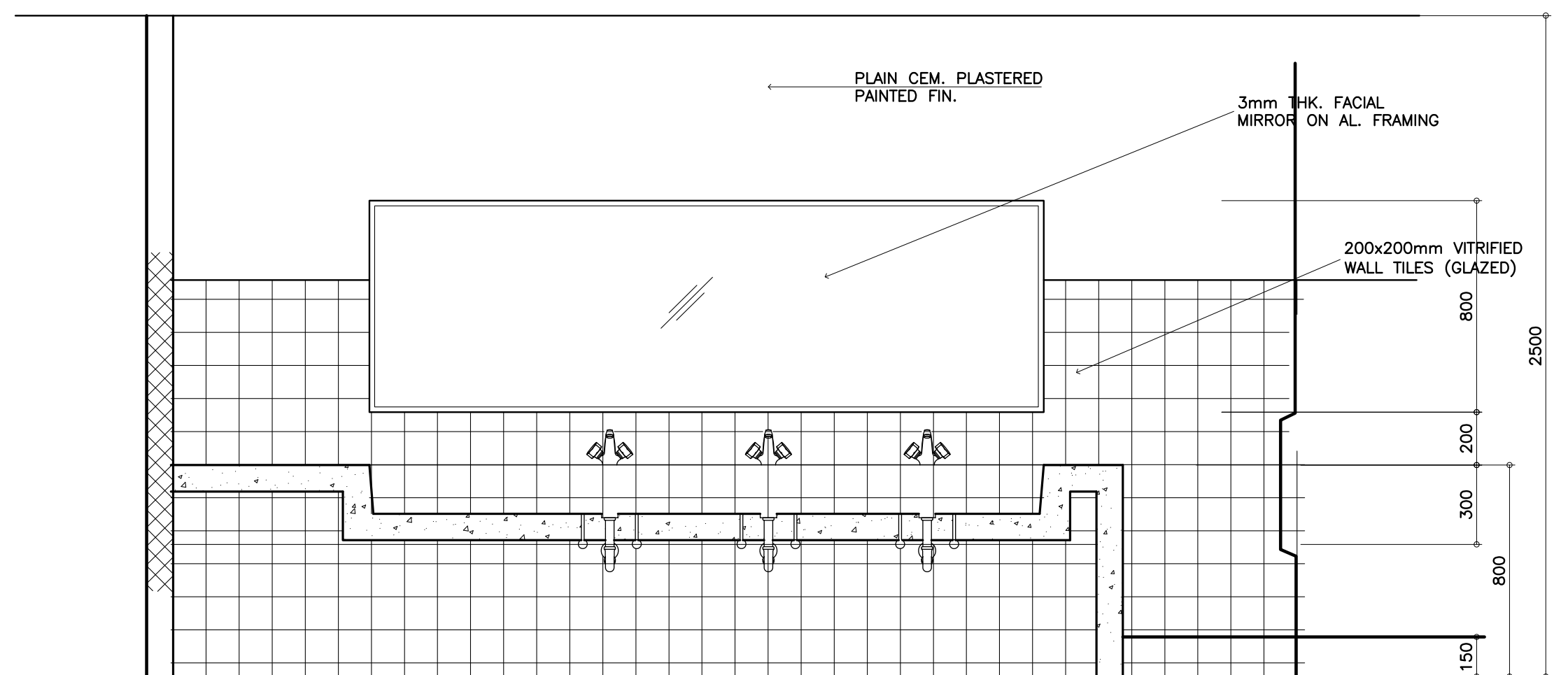
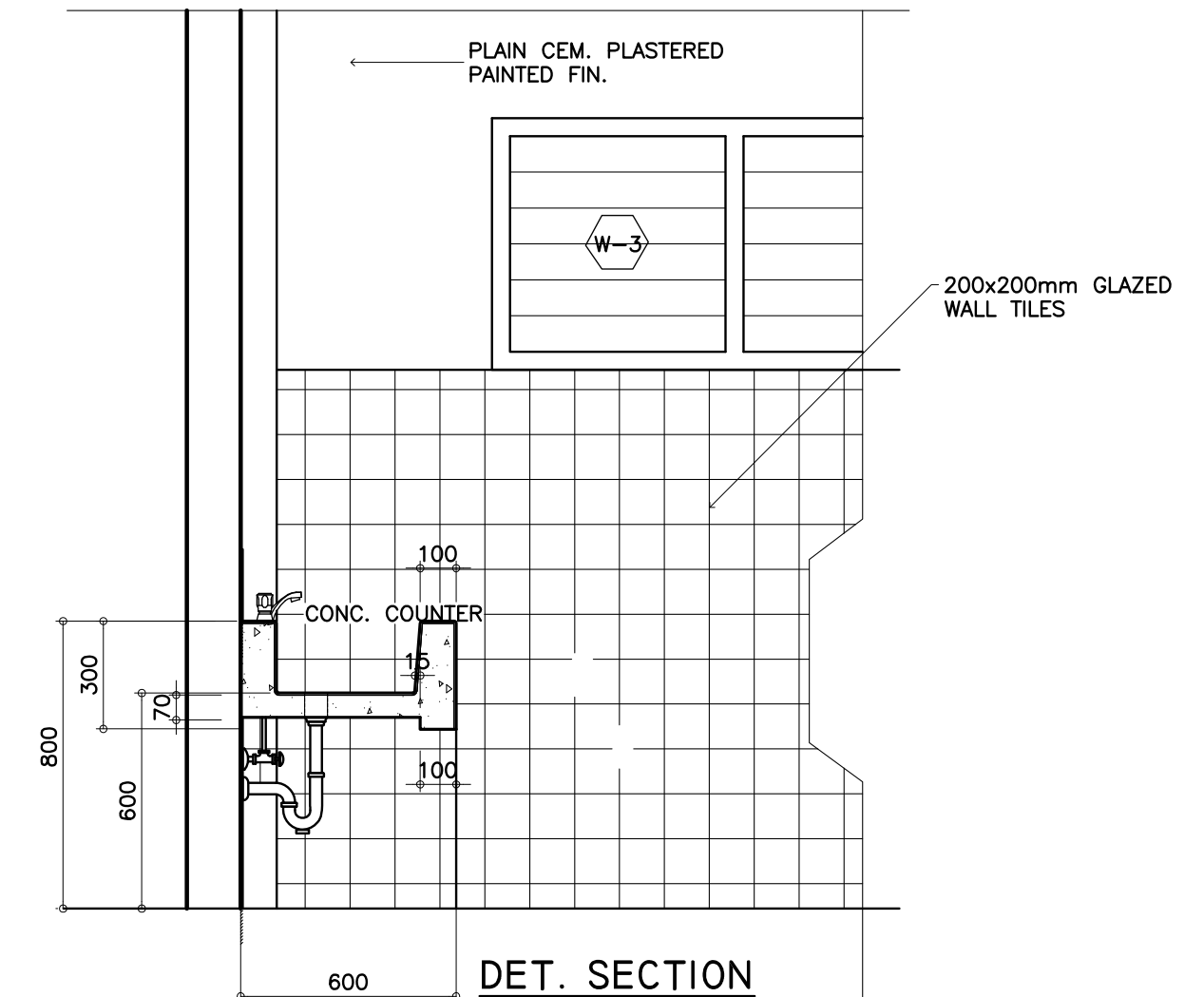
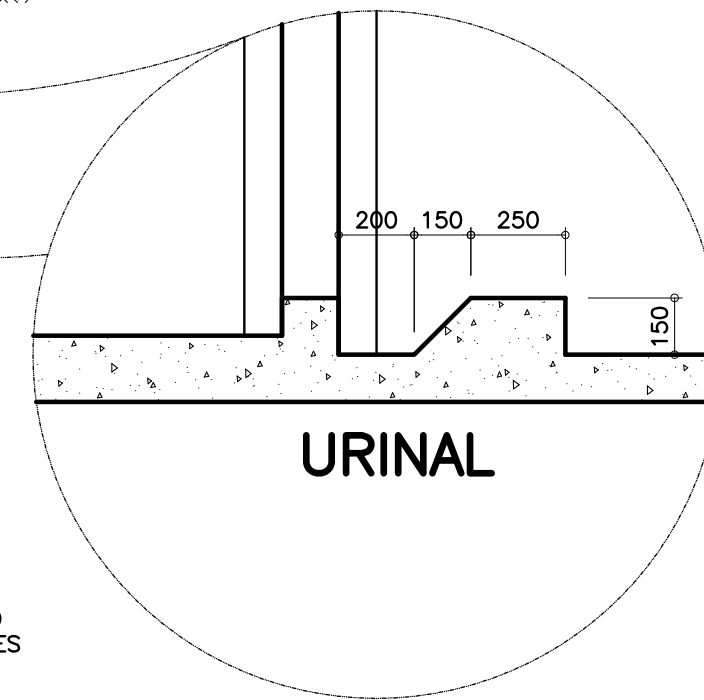
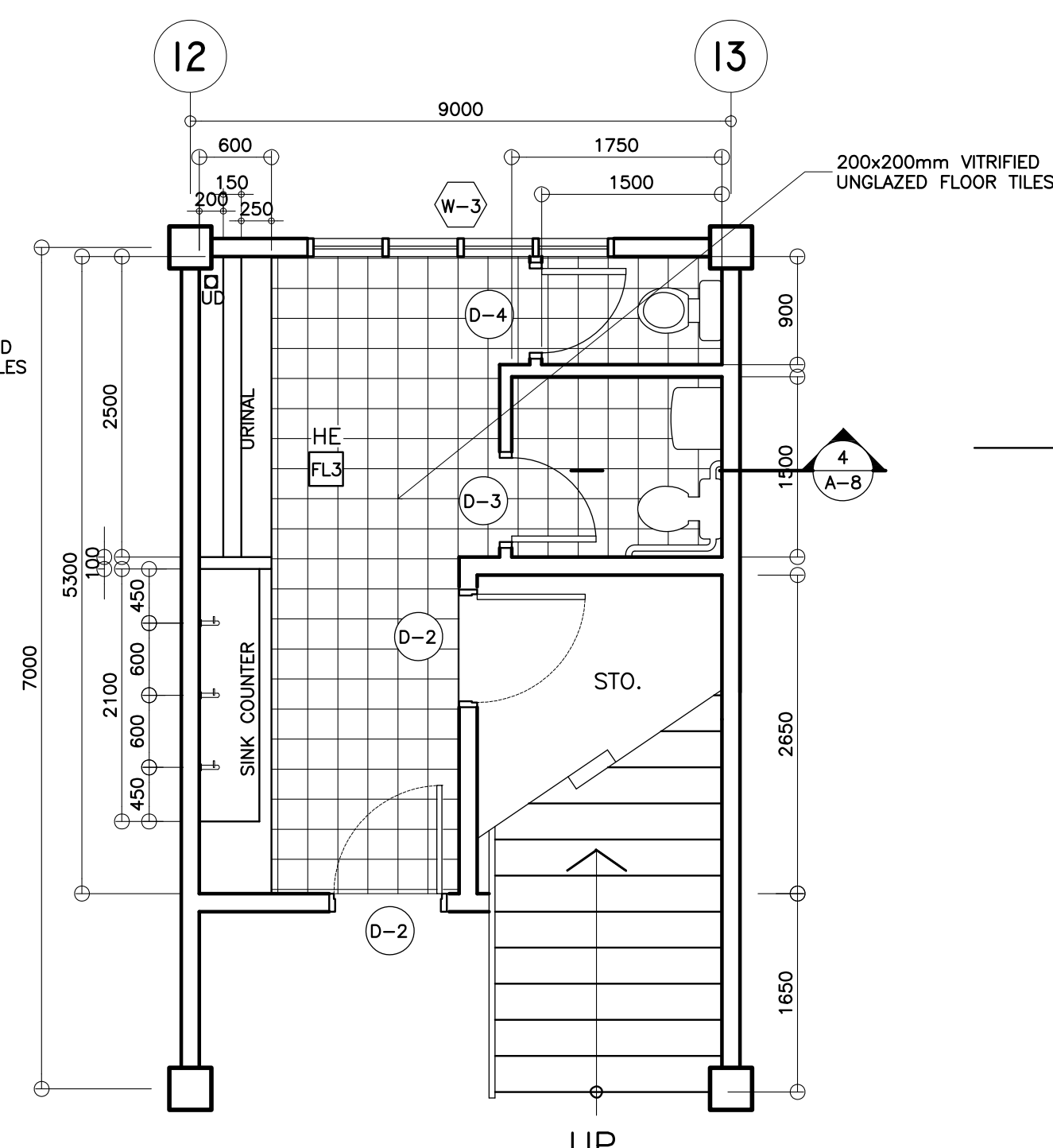
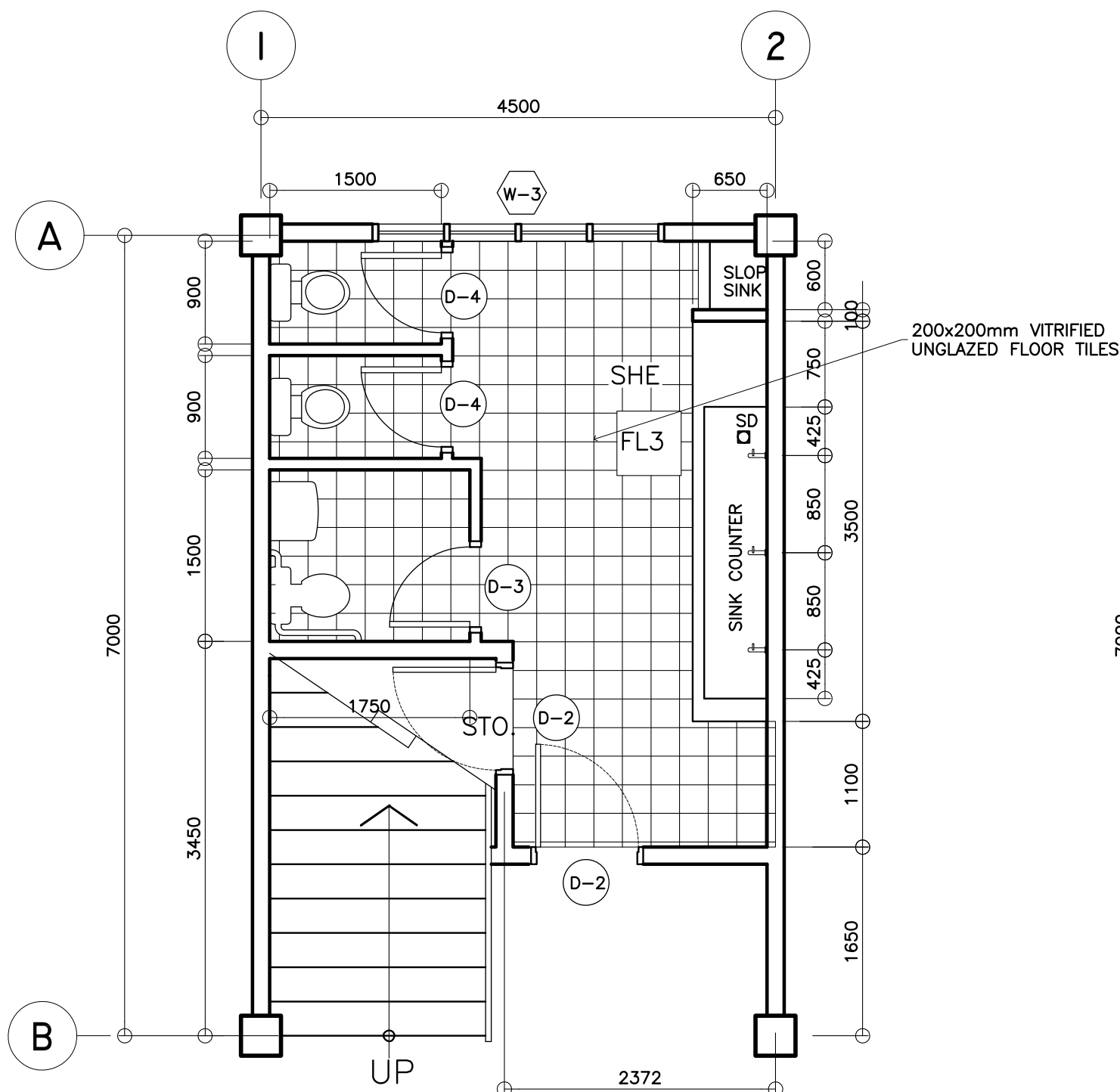
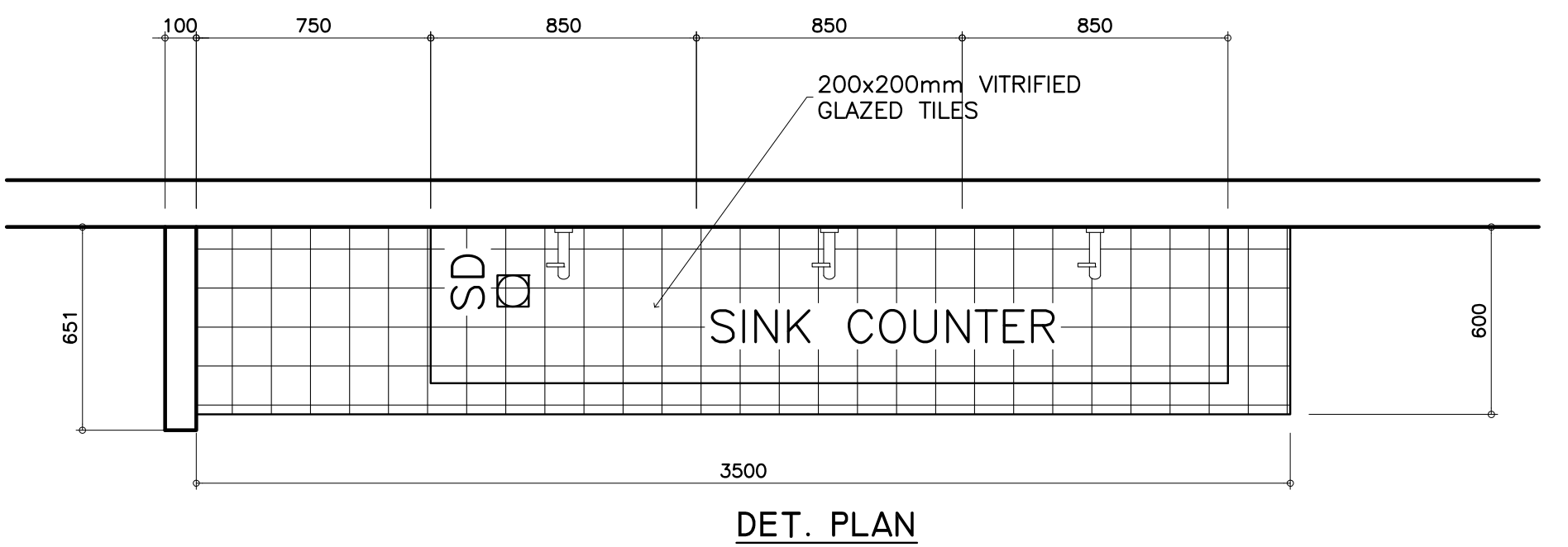
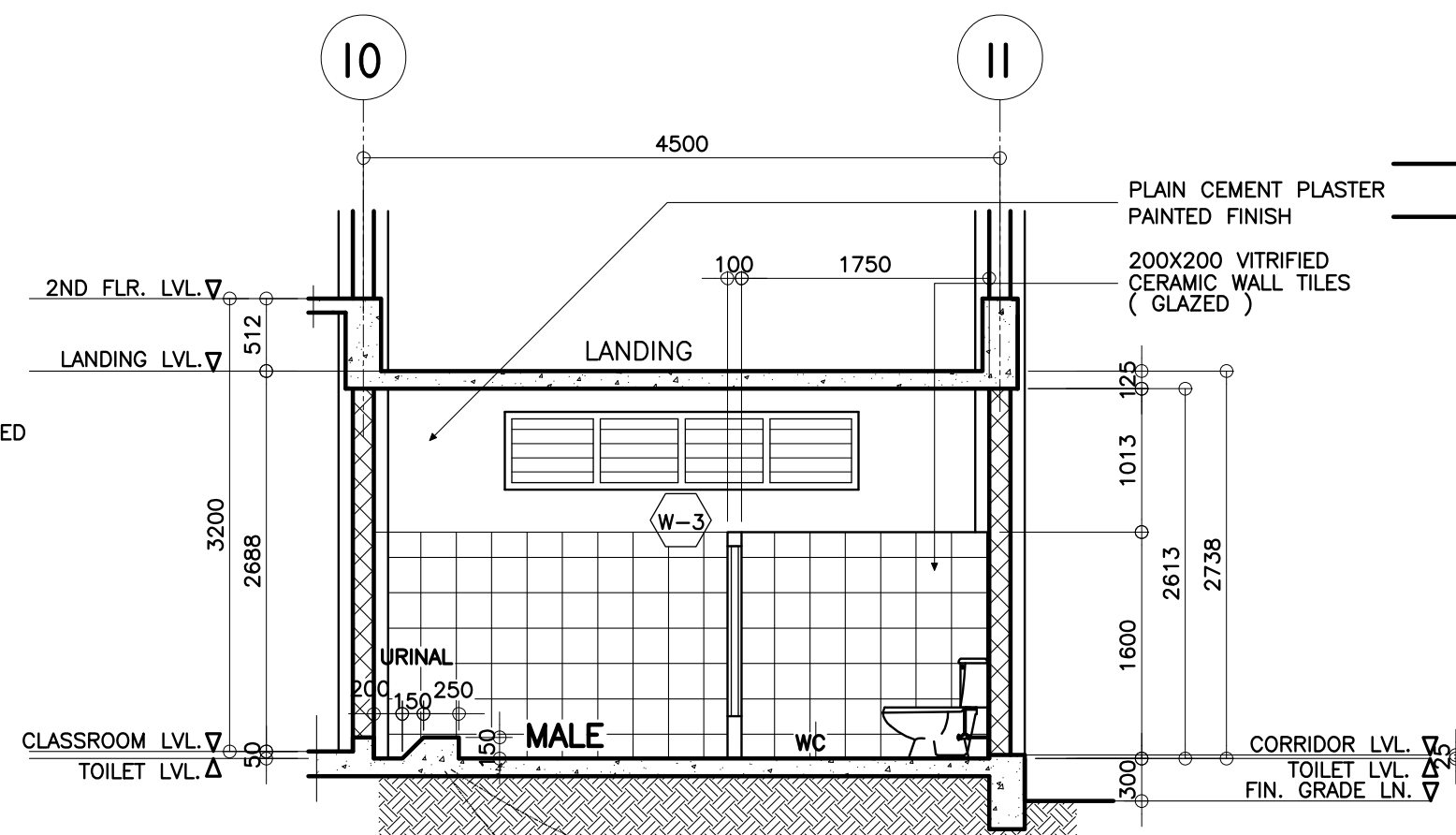
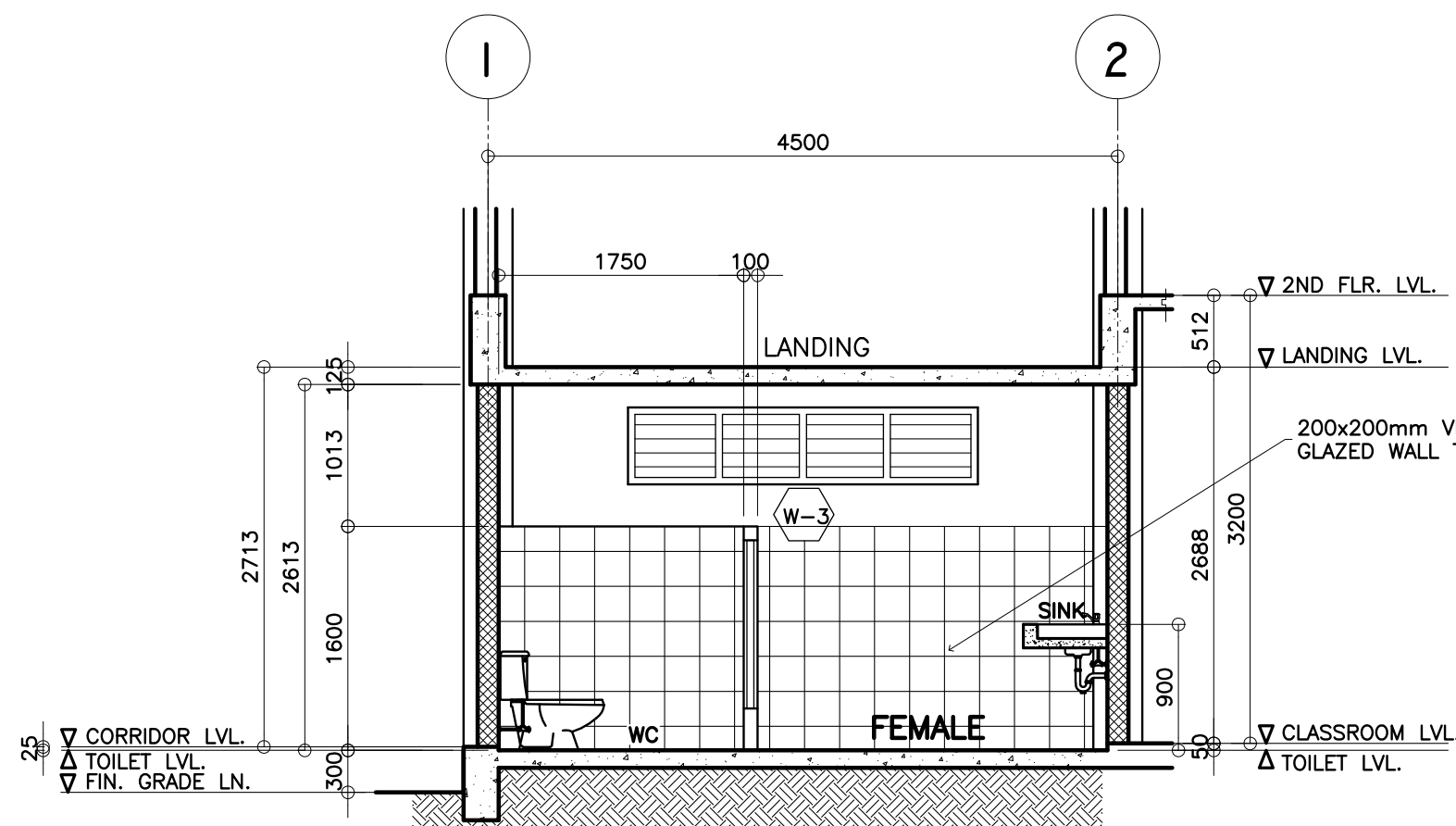
4 SUNBREAKER DETAIL
SCALE 1:10 M



2 DAMP PROOFING DET.
SCALE 1:10 M

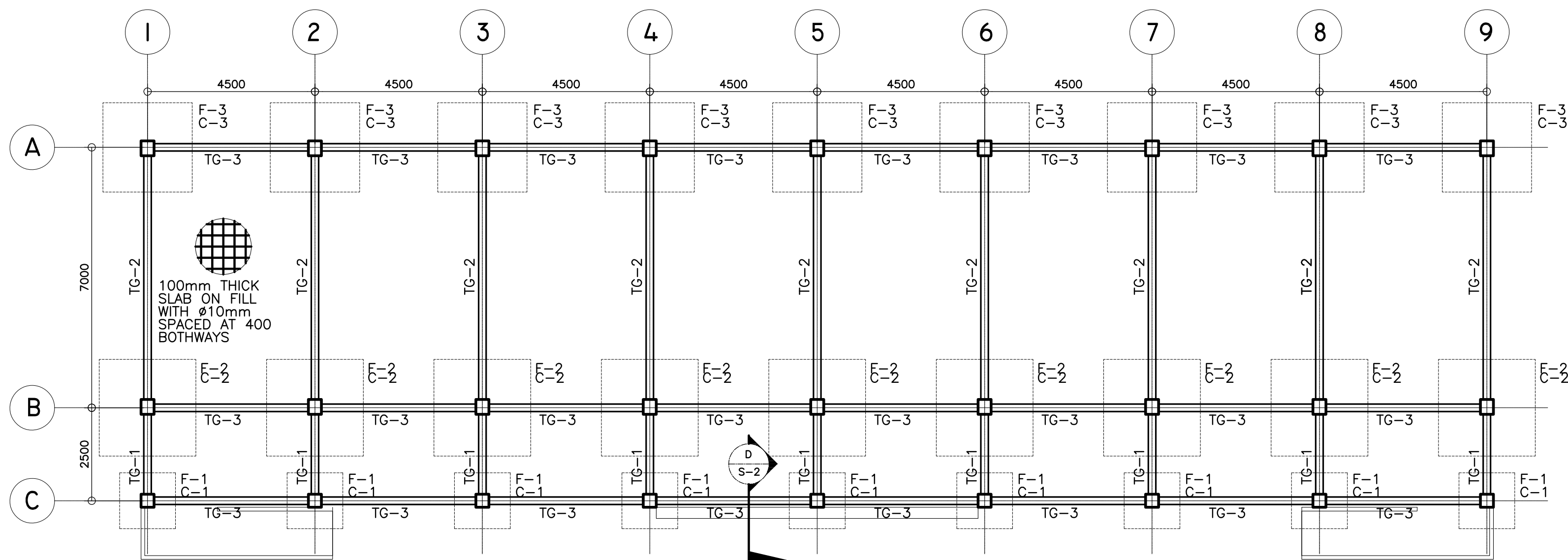
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</p>	<p>CONSULTANT / DESIGNER ALBERT Z. DE BELEN ARCHITECT IV PRC NO. : 0010990 TIN : 149 460 161 PTR NO. : DATE : 27 OCT. 2002</p>	<p>REVIEWED BY: EDUARDO L. SANTAPAY CHIEF / ARCHITECTURAL DIVISION BUREAU OF DESIGN, DPWH</p>	<p>RECOMMENDING APPROVAL : SOLEDAD T. SANTAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH</p>	<p>APPROVED FOR ACCREDITATION : GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH</p>	<p>CONCURRED : RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)</p>	<p>PROJECT TITLE : THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE</p>	<p>PROJECT NO: 01-002 DESIGNED BY: AZB ENCODED BY: Max C CHECKED BY: DATE : 01 03</p>	<p>OWNER : DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : SCHED. OF DOORS & WINDOWS RAMP DETAILS, EAVES DETAIL, SUNBREAKER DETAIL DAMP PROOFING DETAIL, BALCONY RAILING DET.</p>	<p>SHEET NO: A-6 8</p>
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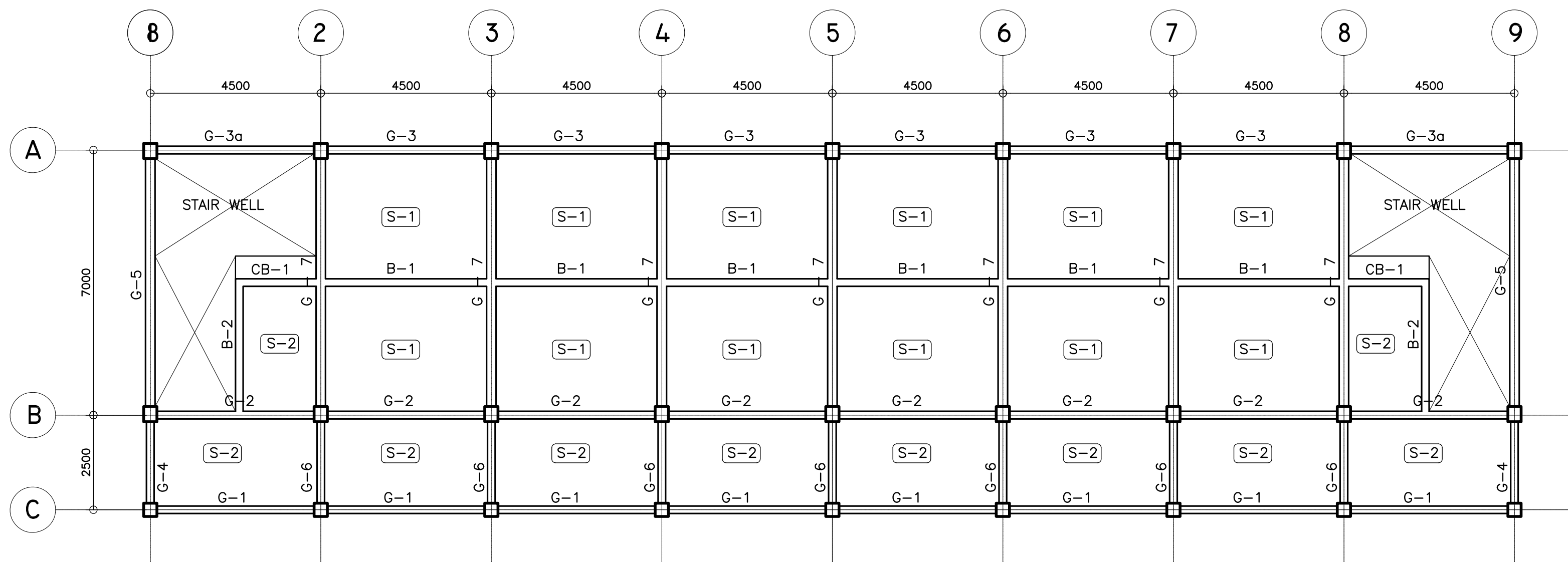


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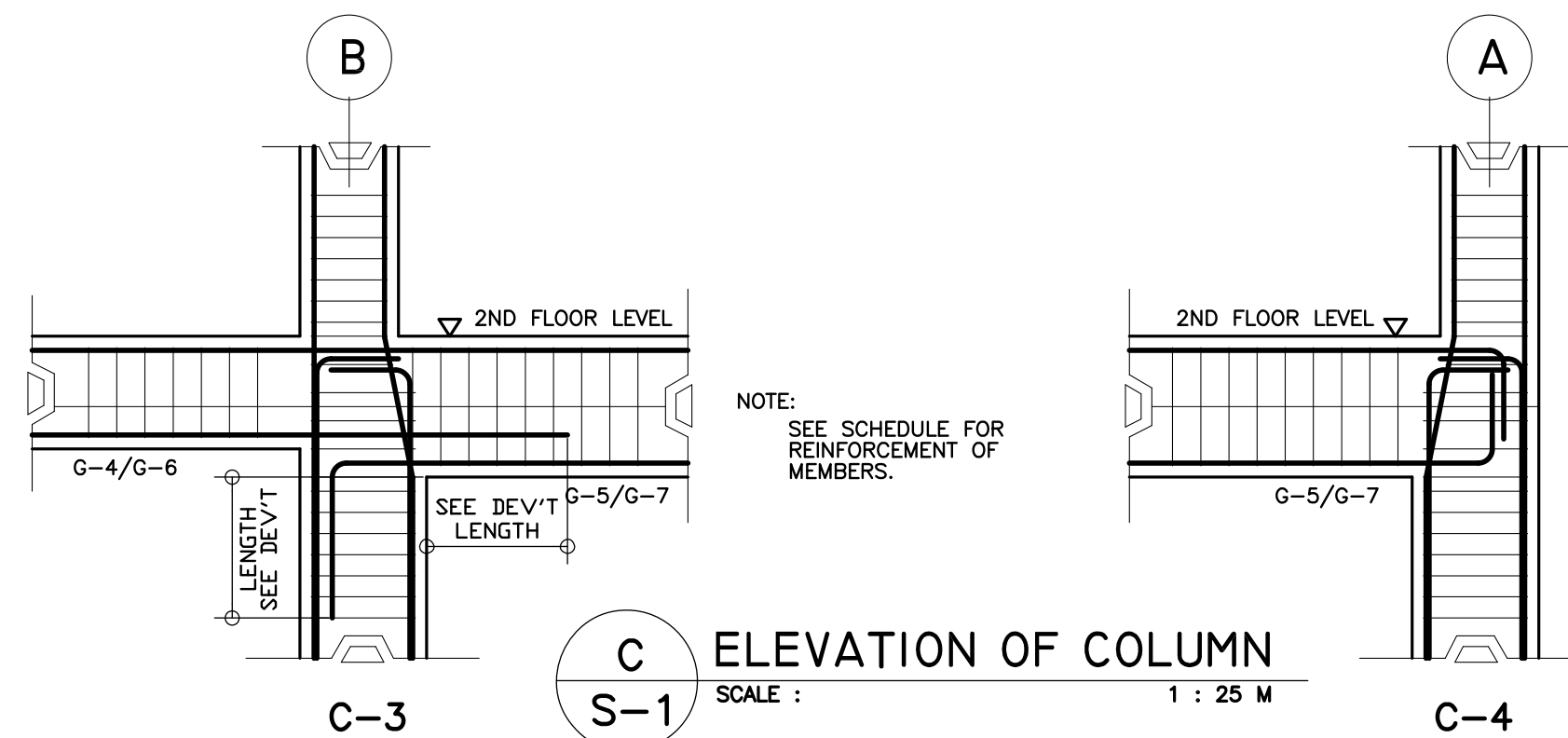
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A
S-1 FOUNDATION PLAN
SCALE : 1:100 M.










B
S-1 2ND & 3RD FLOOR FRAMING PLAN
SCALE : 1:100 M.

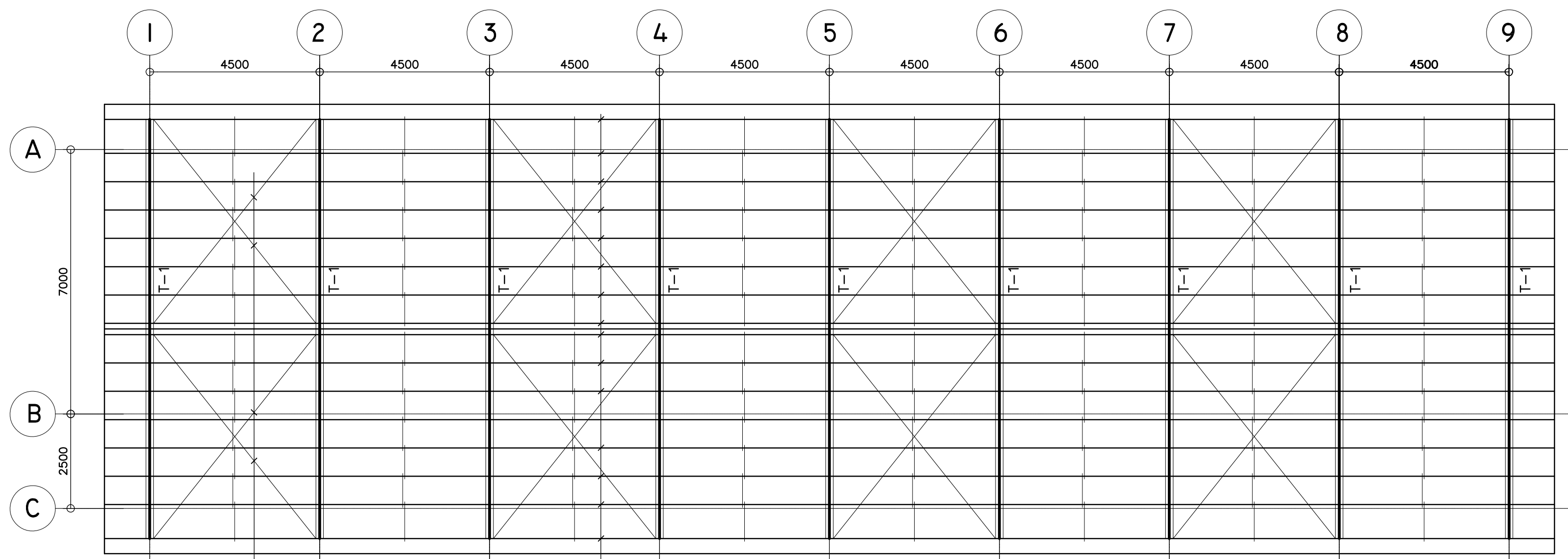


C
S-1 ELEVATION OF COLUMN
SCALE : 1 : 25 M

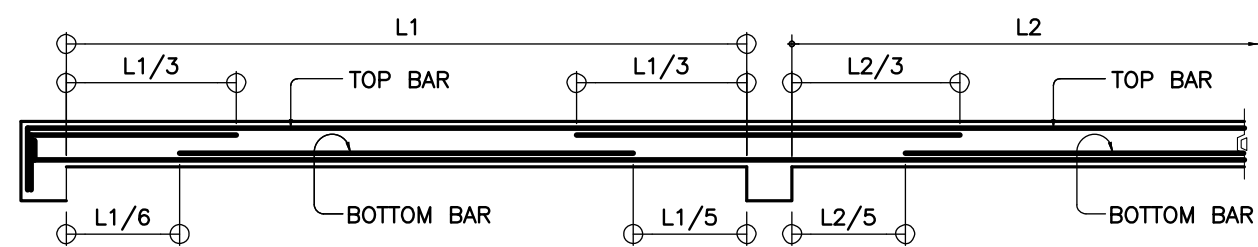
COLUMN SCHEDULE			
LEVEL	C-1	C-2	C-3
2ND FLOOR LEVEL TO 3RD FLOOR LEVEL	<p>MAIN BAR: 6-Ø16mm TIES : Ø10 mm 1Ø50, 8Ø75, REST Ø150mm TO CENTER</p>	<p>MAIN BAR: 12-Ø20mm TIES : Ø10 mm 1Ø50, 8Ø75, REST Ø150mm TO CENTER</p>	<p>MAIN BAR: 12-Ø20mm TIES : Ø10 mm 1Ø50, 8Ø75, REST Ø150mm TO CENTER</p>
FOUNDATION LEVEL TO 2ND FLOOR LEVEL	<p>MAIN BAR: 8-Ø16mm TIES : Ø10 mm 1Ø50, 8Ø75, REST Ø150mm TO CENTER</p>	<p>MAIN BAR: 14-Ø20mm TIES : Ø10 mm 1Ø50, 10Ø75, REST Ø150mm TO CENTER</p>	<p>MAIN BAR: 12-Ø20mm TIES : Ø10 mm 1Ø50, 10Ø75, REST Ø150mm TO CENTER</p>

<div><div>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</div></div>	CONSULTANT / DESIGNER	REVIEWED BY:	RECOMMENDING APPROVAL :	APPROVED FOR ACCREDITATION :	CONCURRED :	PROJECT TITLE :	PROJECT NO: 01-002	OWNER :	SHEET NO:	
	<div><div>BERNADETTE N. AQUINO</div><div>ENGINEER III</div><div>PRC NO. : 0074495 TIN : 199-674-196</div><div>PTR NO. : DATE :</div></div>	<div><div>WILFREDO S. LOPEZ</div><div>OIC, STRUCTURAL DIVISION</div><div>BUREAU OF DESIGN, DPWH</div></div>	<div><div>SOFIA T. SANTIAGO</div><div>OIC, DIRECTOR III</div><div>BUREAU OF DESIGN, DPWH</div></div>	<div><div>GILBERTO S. REYES</div><div>OIC, DIRECTOR IV</div><div>BUREAU OF DESIGN, DPWH</div></div>	<div><div>RAMON C. BACANI</div><div>UNDERSECRETARY</div><div>DEPARTMENT OF EDUCATION (DepED)</div></div>	THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE	DESIGNED BY: BNA ENCODED BY: BNA CHECKED BY:	DEPARTMENT OF EDUCATION DepED	DEPARTMENT OF EDUCATION DepED	S-1 4
						LOCATION :	DATE : 01 03	FOUNDATION, 2ND&3RD FLR FRAMING PLAN SCHEDULE AND ELEVATION OF COLUMN		

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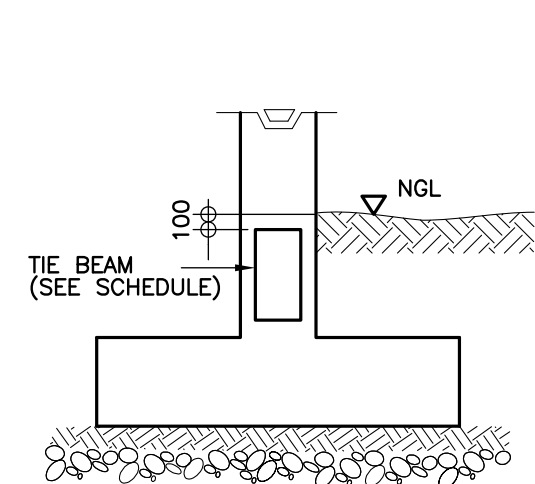


A
S-2 ROOF DECK FRAMING PLAN
SCALE : 1:100 M.

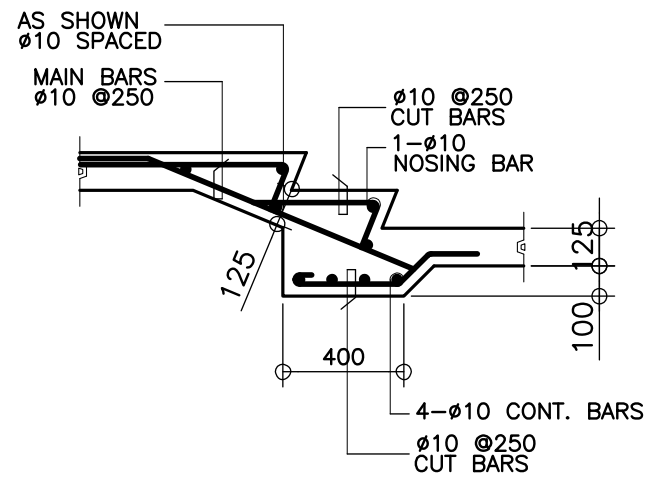


B
S-2 TYPICAL SLAB ELEVATION

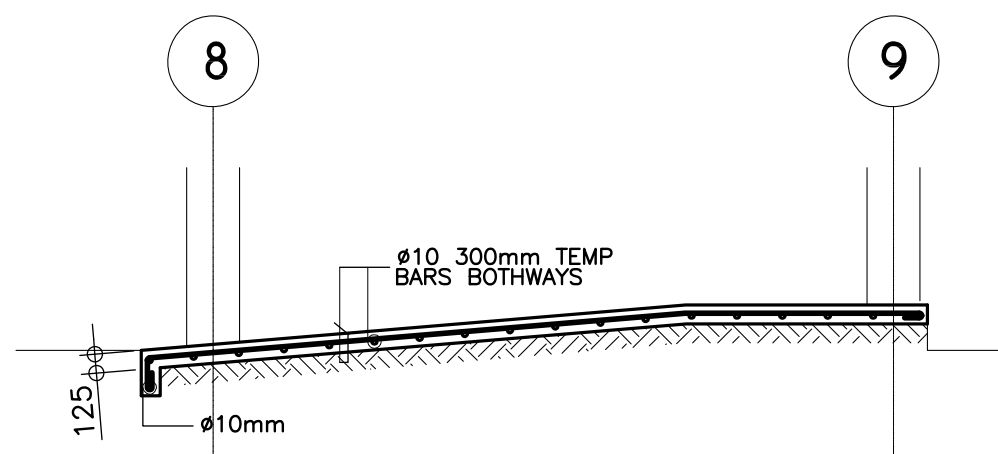
SCHEDULE OF SLABS																	
FLOOR LEVEL	SLAB MARK	THICK- NESS in mm	REBAR SPACING ALONG SHORT DIRECTION in mm							REBAR SPACING ALONG LONG DIRECTION in mm							REMARKS
			REBAR SIZE	LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT		REBAR SIZE	LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT		
				TOP	BOTT.	TOP	BOTT.	TOP	BOTT.		TOP	BOTT.	TOP	BOTT.	TOP	BOTT.	
SECOND LEVEL																	
	S-1	100	10Ø	200	300	-	300	200	300	10Ø	250	300	-	300	250	300	TWO-WAY
	S-2	100	10Ø	300	300	-	300	300	300	10Ø	300	300	-	300	300	300	TWO-WAY



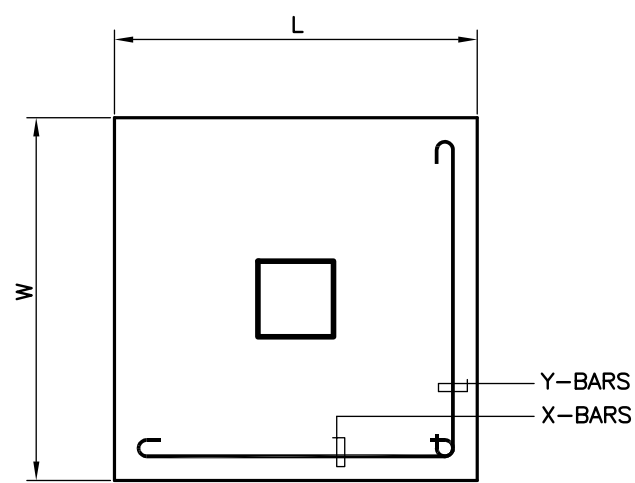
C
S-2 DETAIL OF TIE BEAM
SCALE NTS



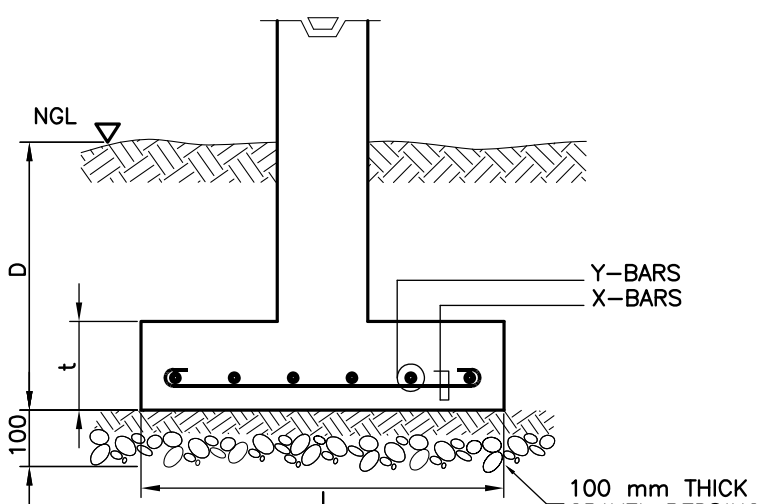
D
S-2 DETAIL OF STAIR ON GRADE
SCALE 1 : 25M



E
S-2 DETAIL OF RAMP
SCALE 1 : 50M



F
S-2 TYP. FOOTING DETAIL
SCALE NTS

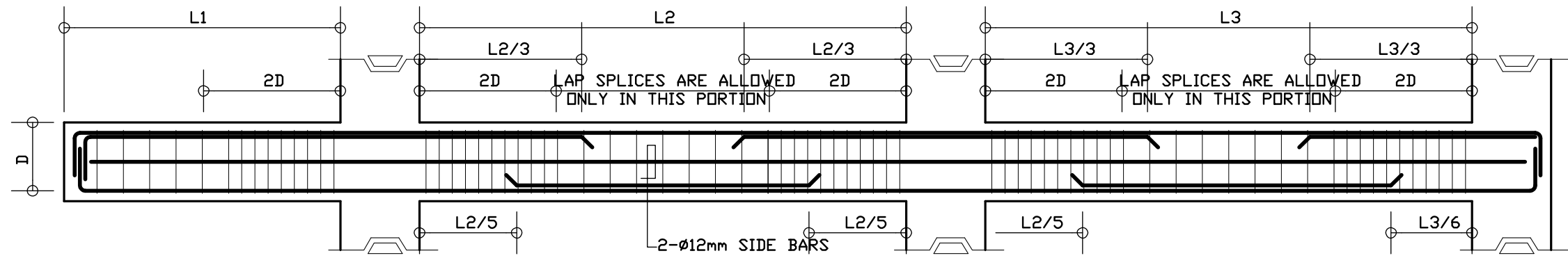


SECTION

SCHEDULE OF FOOTING							
FOOTING MARK	FOOTING DIMENSIONS (mm)				REINFORCEMENT		REMARKS
	LENGTH (L)	WIDTH (W)	DEPTH (D)	Thickness (t)	BAR X	BAR Y	
F-1	1500	1500	1500	250	8 - 16mmØ	8 - 16mmØ	SQUARE FOOTING
F-2	2600	2600	1500	350	11 - 20mmØ	11 - 20mmØ	SQUARE FOOTING
F-3	2400	2400	1500	300	11 - 20mmØ	11 - 20mmØ	SQUARE FOOTING

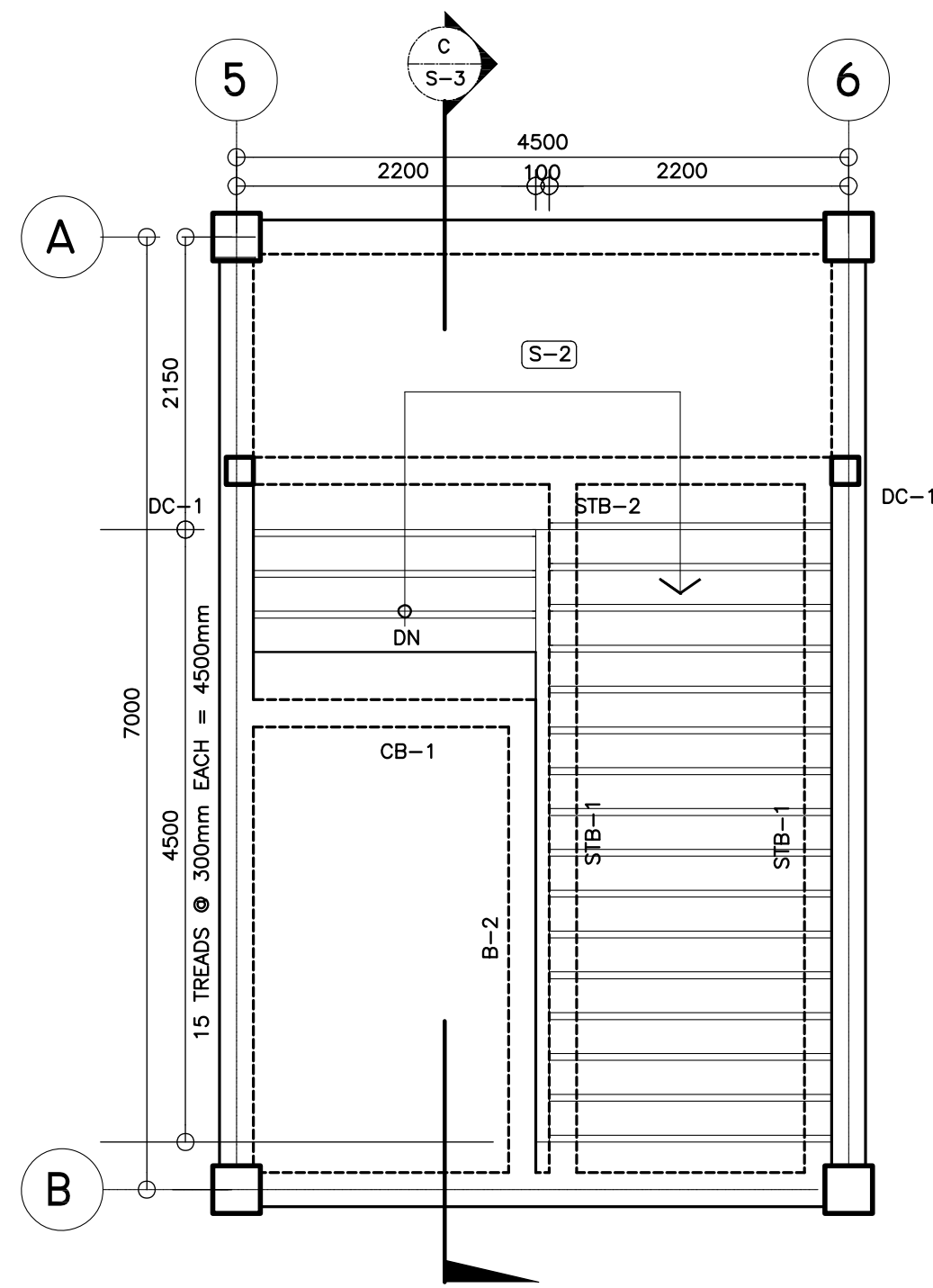
 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepEd) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY	CONSULTANT / DESIGNER BERNADETTE N. AQUINO ENGINEER III PRC NO. : 0074495 TIN : 199-674-196 PTR NO. : DATE :	REVIEWED BY: WILFREDO S. LOPEZ OIC, STRUCTURAL DIVISION BUREAU OF DESIGN, DPWH	RECOMMENDING APPROVAL : SOPIA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH	APPROVED FOR ACCREDITATION : GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH	CONCURRED : RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepEd)	PROJECT TITLE : THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE LOCATION :	PROJECT NO: 01-002 DESIGNED BY: BNA ENCODED BY: BNA CHECKED BY: DATE : 01 03	OWNER : DEPARTMENT OF EDUCATION DepEd SHEET CONTENTS : ROOF FRAMING, SCHED OF SLAB & FOOTING DET OF TIE BEAM, STAIR ON GRADE & RAMP	SHEET NO: S-2 4
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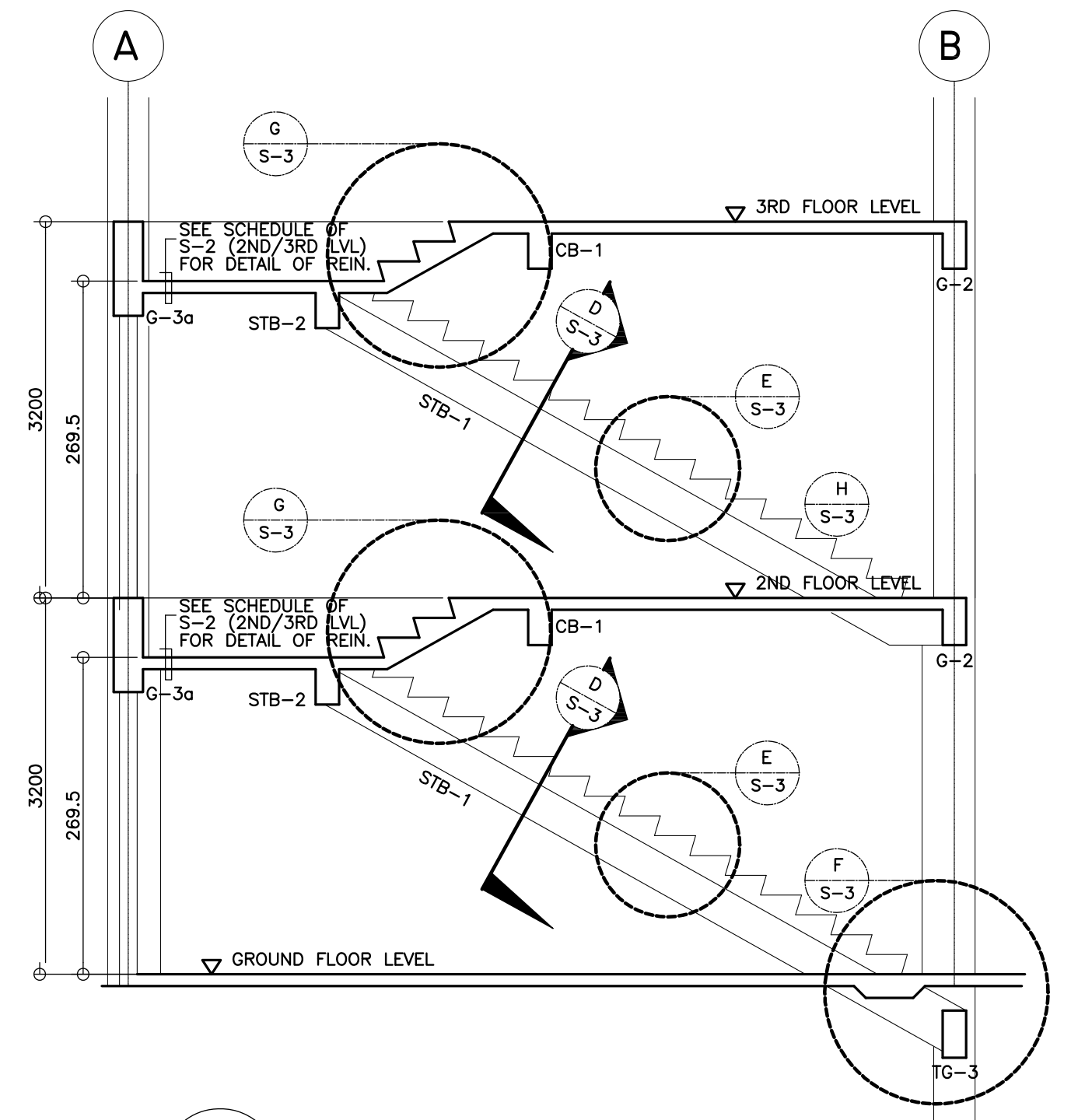


A
S-3 TYPICAL BEAM ELEVATION

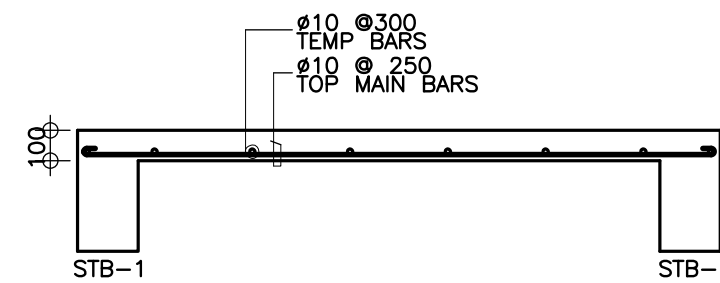
B E A M S C H E D U L E											
FLOOR LEVEL	BEAM MARK	BEAM DIMENSIONS (in / mm)		S T E E L R E I N F O R C E M E N T S						S T I R R U P S #10mm (UNLESS NOTED OTHERWISE)	
				REBAR (mm Ø)	LEFT		MID SPAN		RIGHT		
		b	h		TOP	BOTTOM	TOP	BOTTOM	TOP		BOTTOM
2ND FLOOR LEVEL	G-1	200	400	#20mm	3	2	2	2	3	2	1#50, 6#100, REST#200
	G-2	200	400	#20mm	4	3	2	2	4	3	1#50, 6#100, REST#200
	G-3	200	400	#20mm	3	3	2	2	3	3	1#50, 6#100, REST#200
	G-4	200	400	#20mm	3	2	2	2	6	4	1#50, 6#100, REST#200
	G-5	250	500	#20mm	6	4	2	4	6	4	1#50, 8#100, REST#200
	G-6	200	400	#20mm	4	3	2	2	6	4	1#50, 6#100, REST#200
	G-7	250	500	#20mm	6	4	2	6	6	4	1#50, 8#100, REST#200
	B-1	200	400	#16mm	4	2	2	2	4	2	1#50, 6#100, REST#200
	B-2	200	400	#16mm	2	2	2	4	2	2	1#50, 6#100, REST#200
	CB-1	200	400	#16mm	4	2	4	2	4	2	1#50, 6#100, REST#200
3RD FLOOR LEVEL											
	G-1	200	400	#20mm	2	2	2	2	2	2	1#50, 6#100, REST#200
	G-2	200	400	#20mm	3	2	2	2	3	2	1#50, 6#100, REST#200
	G-3	200	400	#20mm	3	2	2	2	3	2	1#50, 6#100, REST#200
	G-4	200	400	#20mm	3	2	2	2	5	3	1#50, 6#100, REST#200
	G-5	250	500	#20mm	5	3	2	4	5	3	1#50, 8#100, REST#200
	G-6	200	400	#20mm	3	2	2	2	6	4	1#50, 6#100, REST#200
	G-7	250	500	#20mm	6	4	2	6	6	4	1#50, 8#100, REST#200
	B-1	200	400	#16mm	4	2	2	2	4	2	1#50, 6#100, REST#200
	B-2	200	400	#16mm	2	2	2	3	2	2	1#50, 6#100, REST#200
CB-1	200	400	#16mm	4	2	4	2	4	2	1#50, 6#100, REST#200	
TIE BEAM											
	TG-1	300	500	#20mm	5	4	2	2	6	4	1#50, 8#100, REST#200
	TG-2	300	500	#20mm	6	4	2	3	6	4	1#50, 8#100, REST#200
	TG-3	300	500	#20mm	3	3	2	2	3	3	1#50, 6#100, REST#200
STAIR BEAM											
	STB-1	200	400	#16mm	3	2	2	4	3	2	1#50, 6#100, REST#200



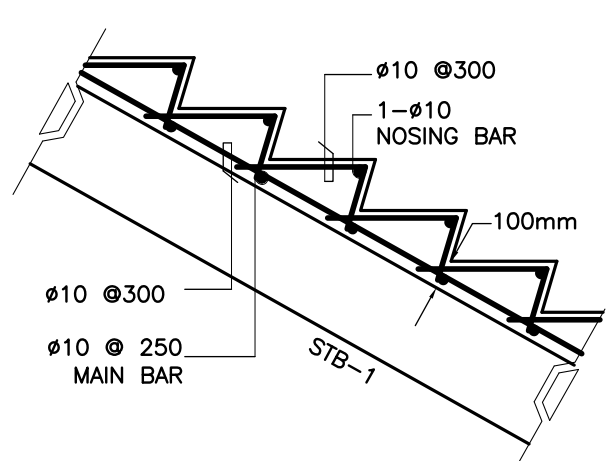
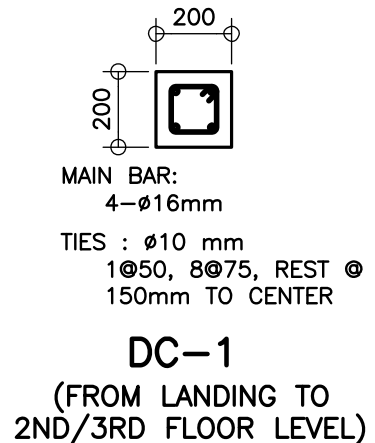
B
S-3 STAIR FRAMING PLAN (TYP)
SCALE 1:50 M



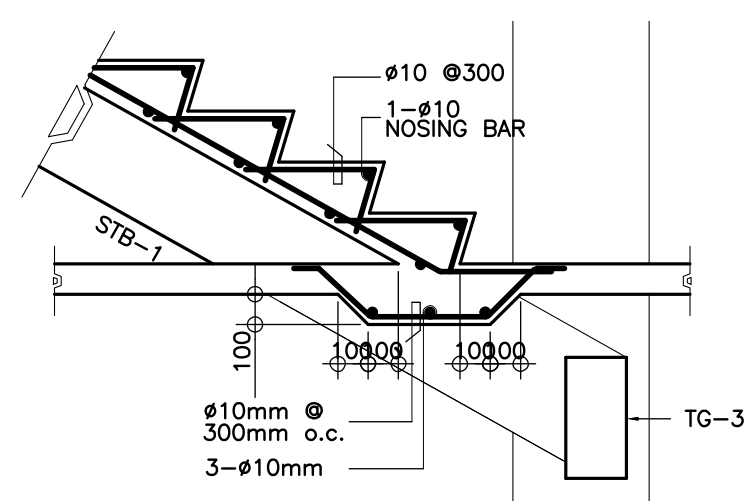
C
S-3 STAIR SECTION DETAIL
SCALE 1:50 M



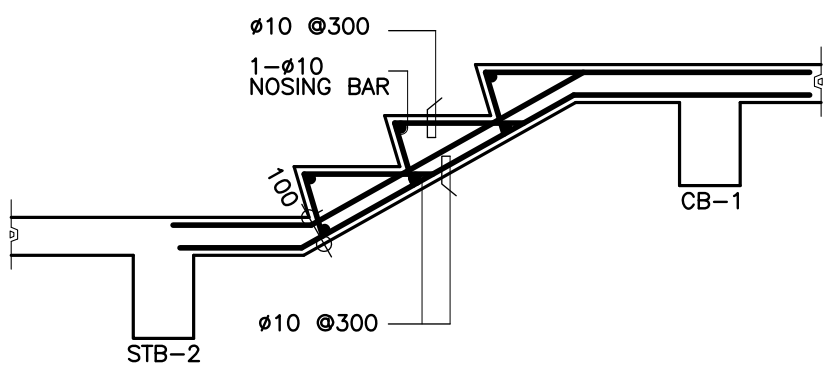
D
S-3 SECTION OF STAIR SLAB
SCALE 1:25 M



E
S-3 SPOT DETAIL
SCALE 1:25 M



F
S-3 SPOT DETAIL
SCALE 1:25 M

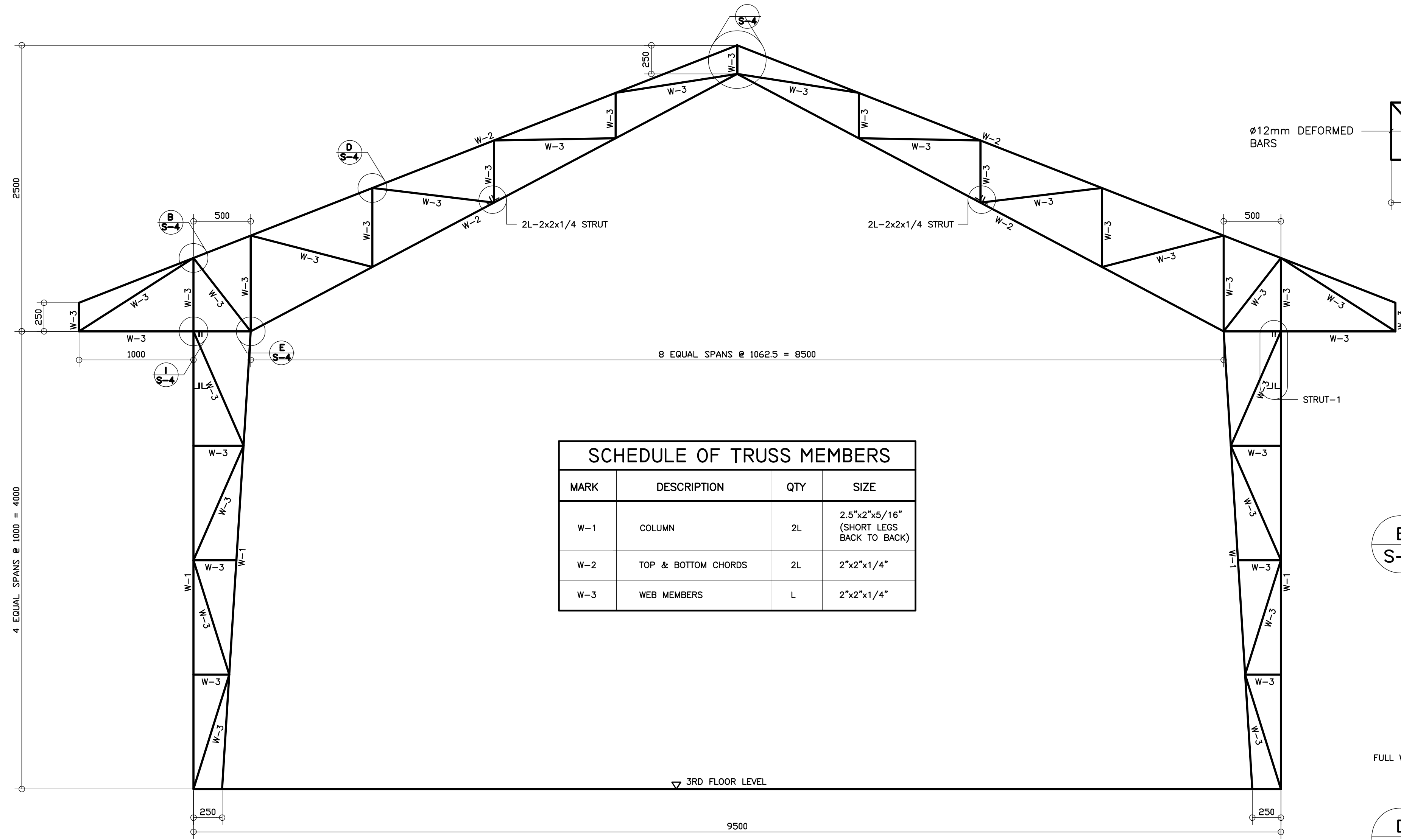


G
S-3 SPOT DETAIL
SCALE 1:25 M

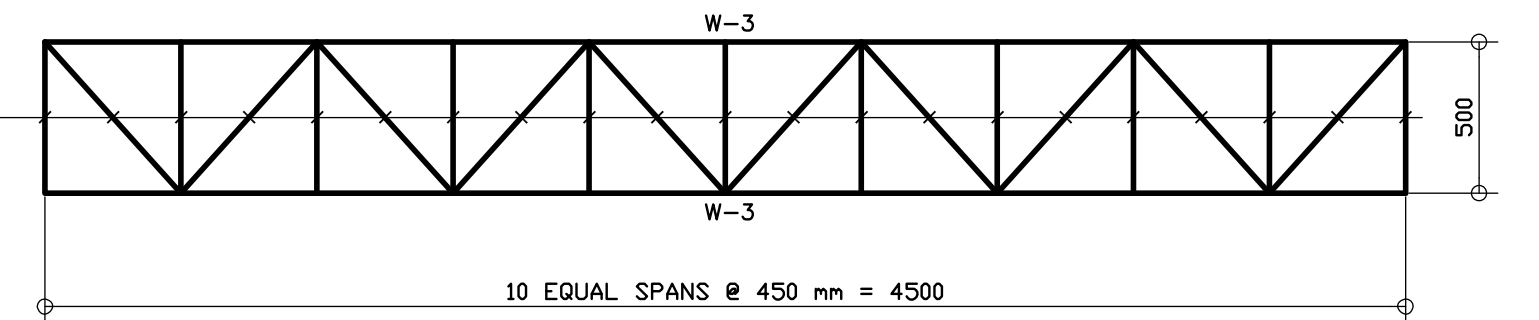
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</p>	CONSULTANT / DESIGNER	REVIEWED BY:	RECOMMENDING APPROVAL :	APPROVED FOR ACCREDITATION :	CONCURRED :	PROJECT TITLE :	PROJECT NO: 01-002	OWNER :	SHEET NO:
	BERNADETTE N. AQUINO ENGINEER III PRC NO. : 0074495 TIN : 199-674-196 PTR NO. : DATE :	WILFREDO S. LOPEZ OIC, STRUCTURAL DIVISION BUREAU OF DESIGN, DPWH	SAFARI T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH	GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH	RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)	THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE	DESIGNED BY: BNA ENCODED BY: BNA CHECKED BY: DATE : 01 03	DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : SCHEDULE OF BEAMS/GIRDERS DETAIL OF STAIR	S-3 4
						LOCATION :			

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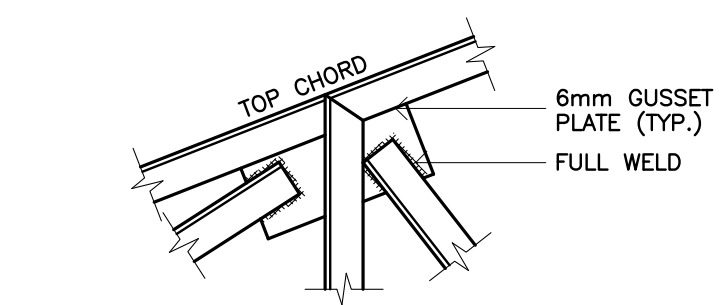
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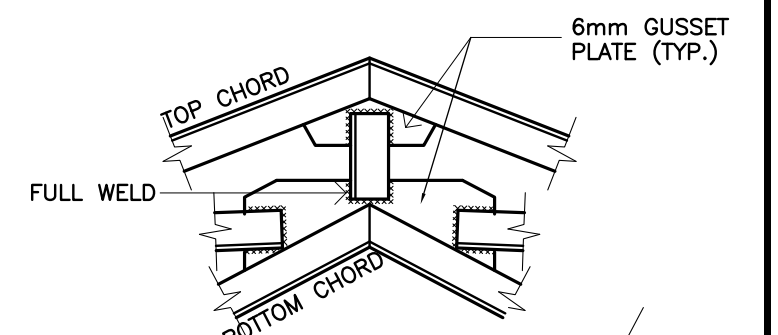
SCHEDULE OF TRUSS MEMBERS			
MARK	DESCRIPTION	QTY	SIZE
W-1	COLUMN	2L	2.5"x2"x5/16" (SHORT LEGS BACK TO BACK)
W-2	TOP & BOTTOM CHORDS	2L	2"x2"x1/4"
W-3	WEB MEMBERS	L	2"x2"x1/4"



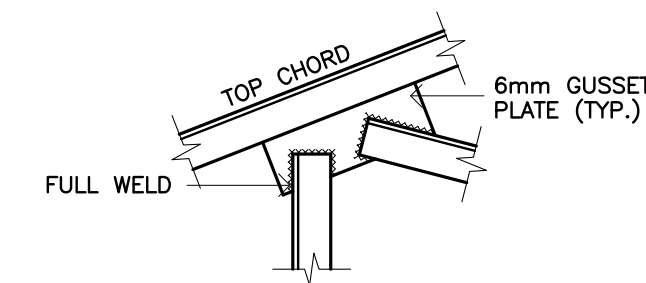
A
S-3 **DIAGRAM OF STRUT-I**
SCALE 1 : 25 M



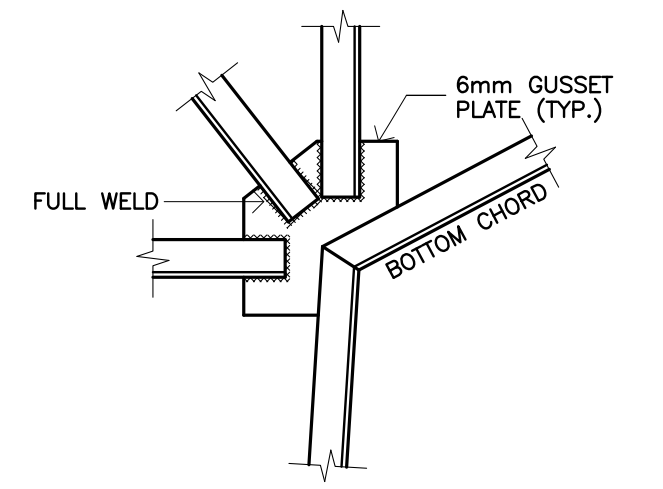
B
S-4 **CONNECTION DETAIL**
SCALE 1 : 10 M



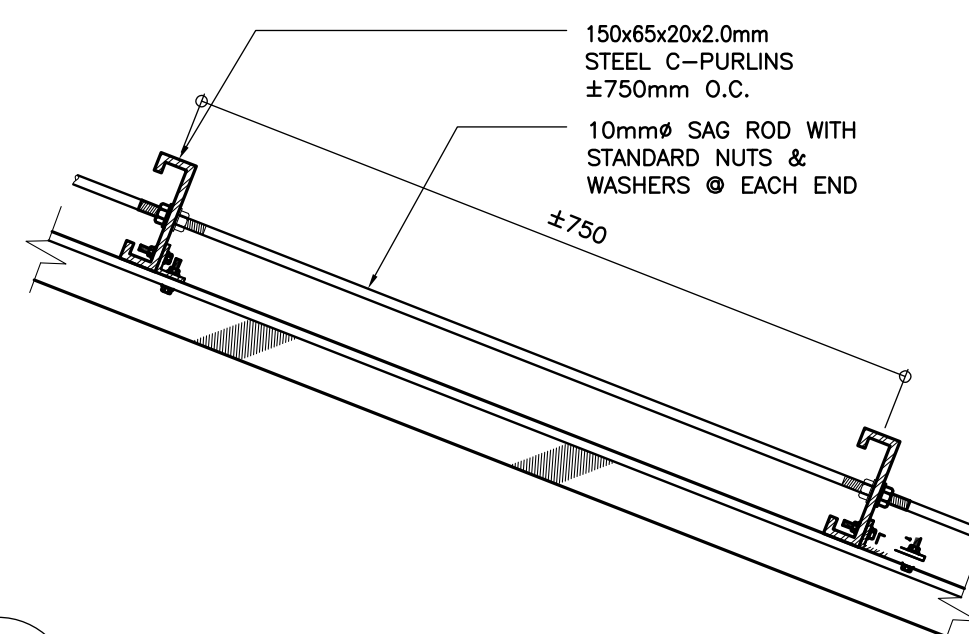
C
S-4 **CONNECTION DETAIL**
SCALE 1 : 10 M



D
S-4 **CONNECTION DETAIL**
SCALE 1 : 10 M

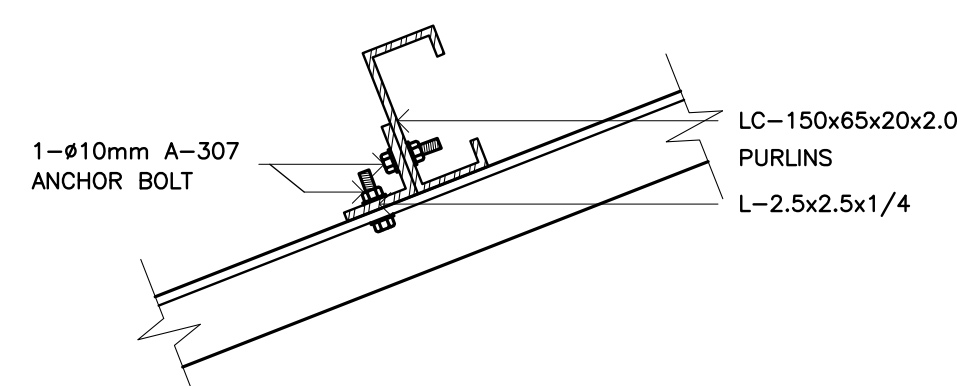


E
S-4 **CONNECTION DETAIL**
SCALE 1 : 10 M

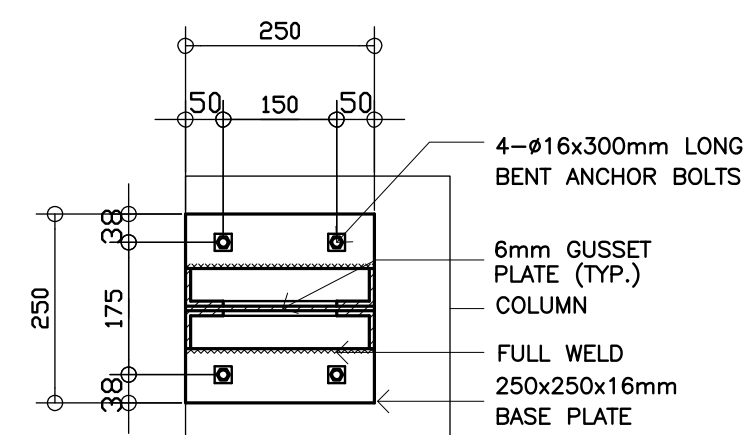


F
S-4 **SAG ROD CONNECTION DETAIL**
SCALE 1 : 10 M

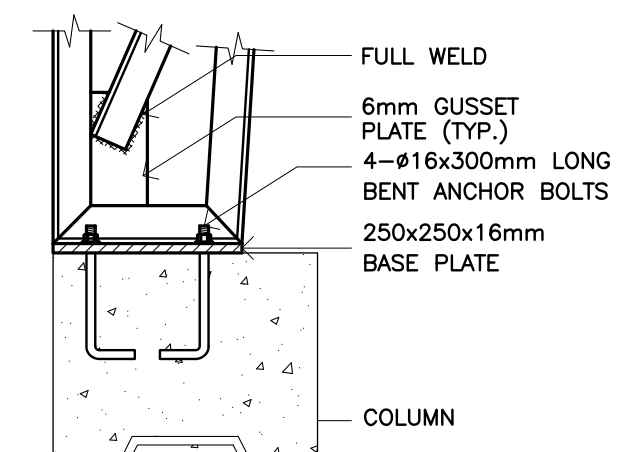
A
S-3 **DIAGRAM OF T-I**
SCALE 1 : 25 M



G
S-4 **PURLIN CONNECTION DETAIL**
SCALE 1 : 10 M

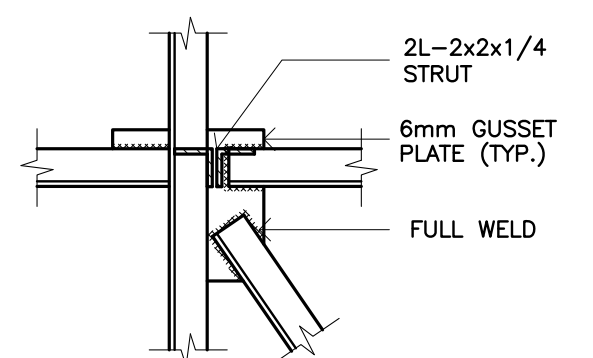


PLAN



SECTION

H
S-4 **CONNECTION DETAIL**
SCALE 1 : 10 M

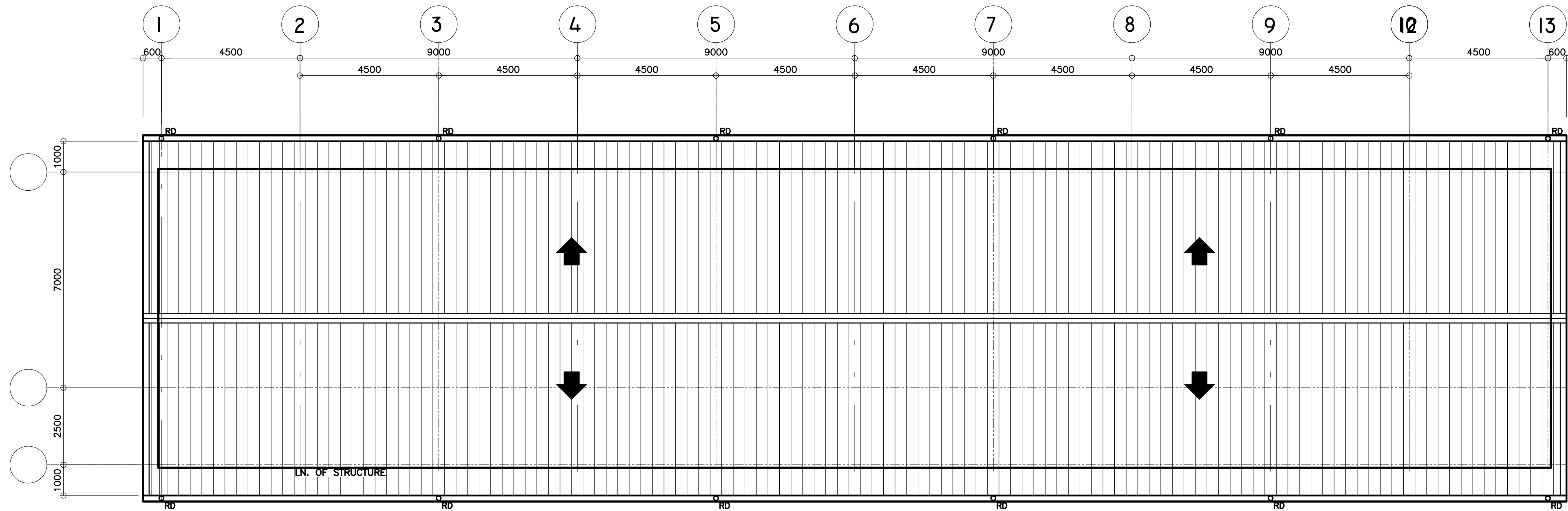


I
S-4 **CONNECTION DETAIL**
SCALE 1 : 10 M

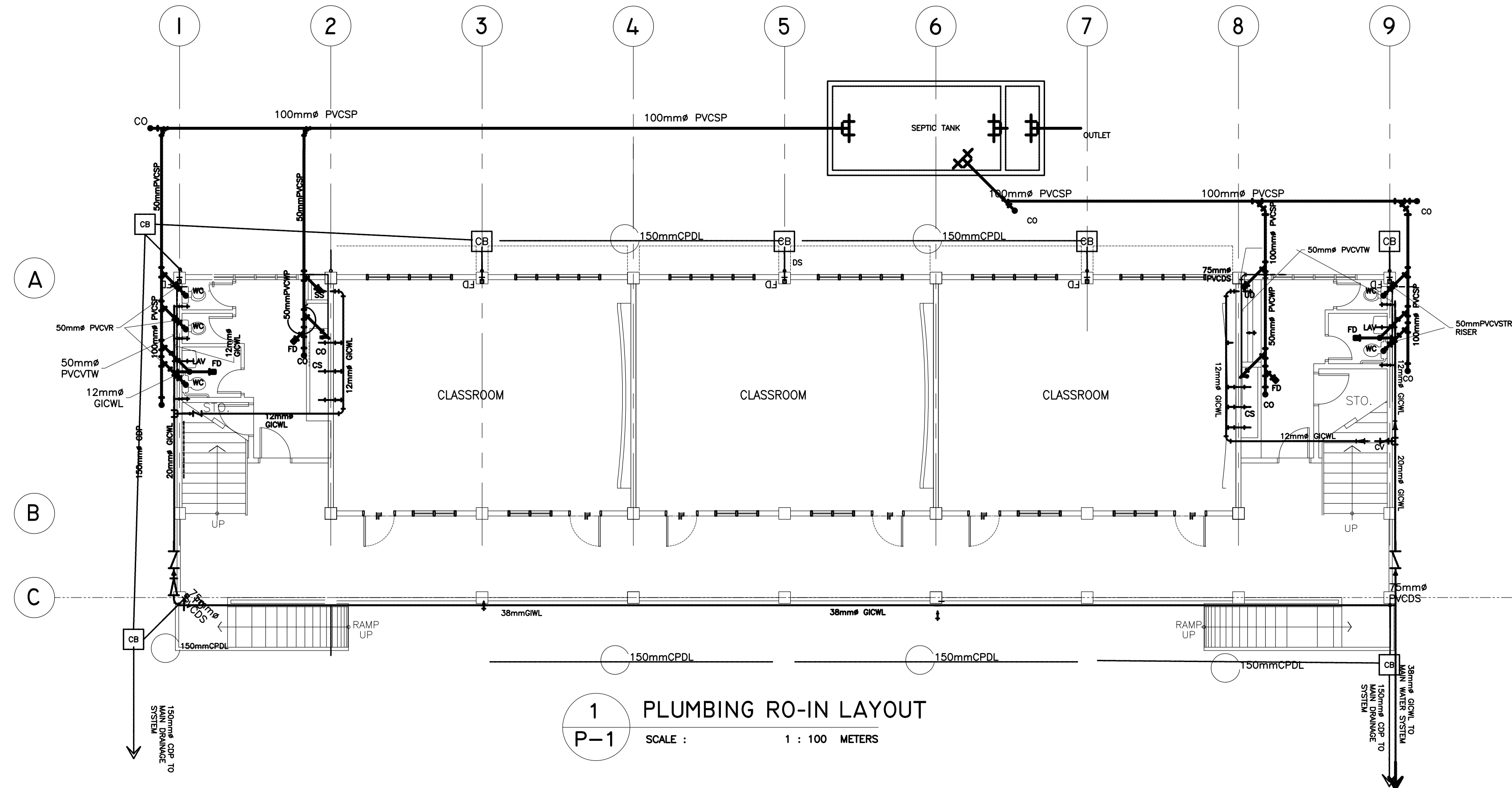
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</p>	CONSULTANT / DESIGNER	REVIEWED BY:	RECOMMENDING APPROVAL :	APPROVED FOR ACCREDITATION :	CONCURRED :	PROJECT TITLE :	PROJECT NO: 01-002	OWNER :	SHEET NO:	
	 BERNADETTE N. AQUINO ENGINEER III PRC NO. : 0074495 TIN : 199-674-196 PTR NO. : _____ DATE : _____	 WILFREDO S. LOPEZ OIC, STRUCTURAL DIVISION BUREAU OF DESIGN, DPWH	 SOPIA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH	 GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH	 RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)	THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE LOCATION :	DESIGNED BY: BNA ENCODED BY: BNA CHECKED BY: DATE : 01 03	DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : TRUSS DIAGRAM DETAILS OF STEEL CONNECTION	S-4 4	

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2 ROOF DRAIN LAYOUT
P-1 SCALE : 1 : 100 METERS

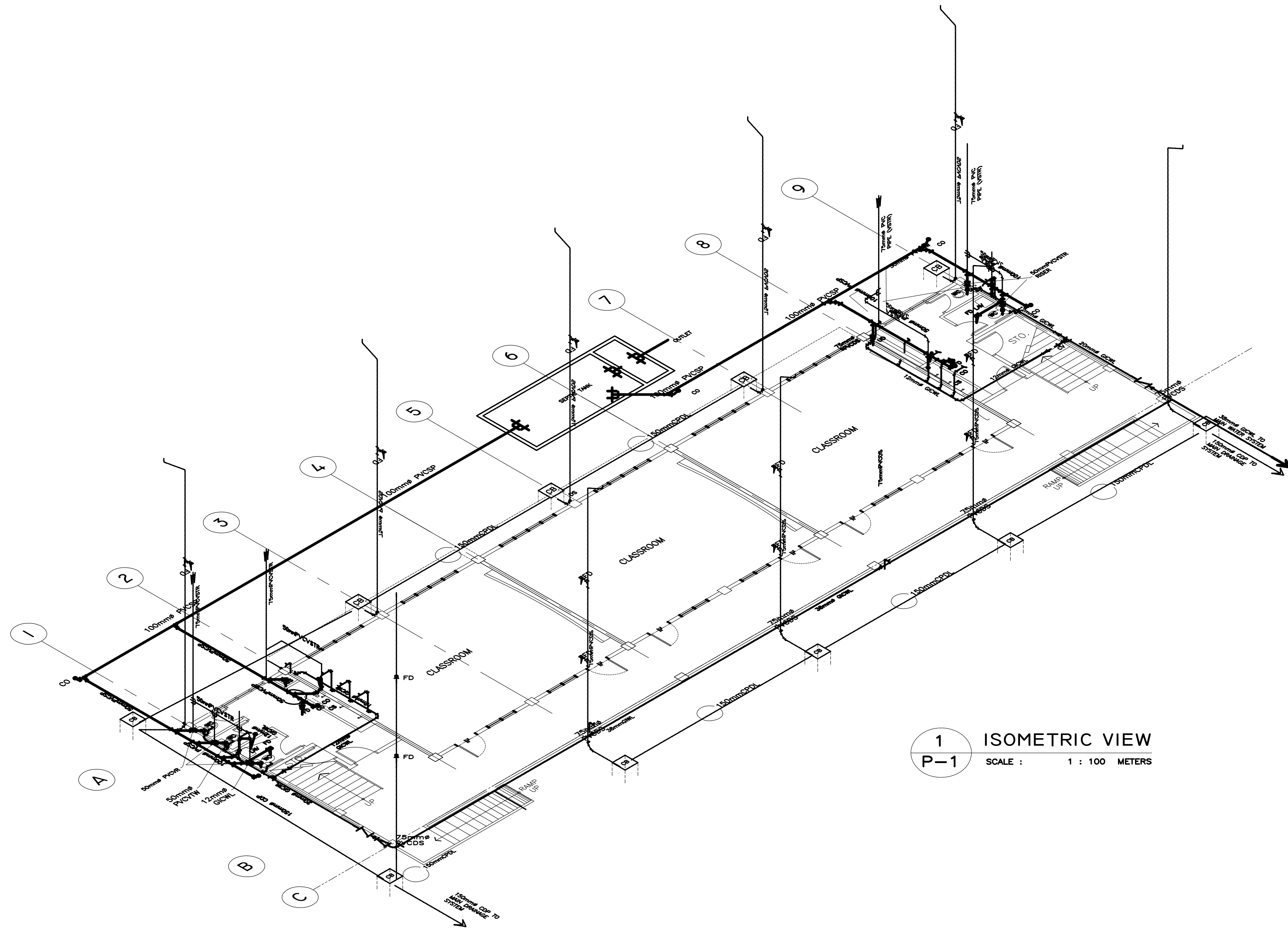


1 PLUMBING RO-IN LAYOUT
P-1 SCALE : 1 : 100 METERS





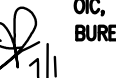




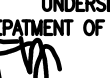
<div><div>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</div></div>	CONSULTANT / DESIGNER		REVIEWED BY:	RECOMMENDING APPROVAL :	APPROVED FOR ACCREDITATION :	CONCURRED :	PROJECT TITLE :	PROJECT NO: 01-002	OWNER :	SHEET NO:
	<div> BERNADETTE N. AQUINO</div>		<div> WILFREDO S. LOPEZ</div>	<div> SOFIA T. SANTIAGO</div>	<div> GILBERTO S. REYES</div>	<div> RAMON C. BACANI</div>	THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE	DESIGNED BY: BNA	DEPARTMENT OF EDUCATION DepED	<div></div>
	ENGINEER III PRC NO. : 0074495 TIN : 199-674-196 PTR NO. : DATE :		OIC, STRUCTURAL DIVISION BUREAU OF DESIGN, DPWH 	OIC, DIRECTOR III BUREAU OF DESIGN, DPWH	OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH	UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED) 	LOCATION :	ENCODED BY: BNA	SHEET CONTENTS :	
								CHECKED BY:	ROOF DRAIN LAYOUT , PLUMBING RO-IN LAYOUT	
							DATE : 01 03			

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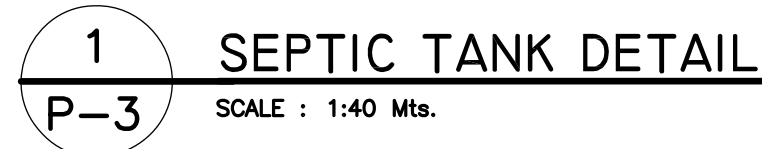


1 ISOMETRIC VIEW
P-1 SCALE : 1 : 100 METERS

 <div>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</div> 	CONSULTANT / DESIGNER	REVIEWED BY:	RECOMMENDING APPROVAL :	APPROVED FOR ACCREDITATION :	CONCURRED :	PROJECT TITLE :	PROJECT NO: 01-002	OWNER :	SHEET NO:	
	 BERNADETTE N. AQUINO ENGINEER III PRC NO. : 0074495 TIN : 199-674-196 PTR NO. : _____ DATE : _____	 WILFREDO S. LOPEZ OIC, STRUCTURAL DIVISION BUREAU OF DESIGN, DPWH 	 SOFA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH	 GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH	 GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH	 RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED) 	THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE LOCATION :	DESIGNED BY: BNA ENCODED BY: BNA CHECKED BY: DATE : 01 03	DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : ISOMETRIC VIEW	P-2 3

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- PLUMBING NOTES:

1. GRADES OF HORIZONTAL PIPINGS
RUN ALL HORIZONTAL PIPINGS IN PERFECT ALIGNMENT AND AT A FORM GRADE NOT LESS THAN TWO PERCENT (2%)
2. CHANGE IN DIRECTION
ALL CHANGE IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY-FIVE DEGREES (45') WYES, LONG SWEEP QUARTER BEND, SIXTH-EIGHT OR SIXTEENTH BEND. WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL A SINGLE 1/8 BEND COMBINATION MAYBE USED ON VERTICAL STACKS AND SHORT QUARTER BENDS MAYBE USED ON WASTE LINE, TEE AND CROSSES MAYBE USED IN BENT PIPES.
3. PROHIBITED FITTINGS
NO DOUBLE HUB OR TEE BRANCH SHALL BE USED ON HORIZONTAL SOIL AND WASTE LINES, THE DRILLINGS AND TAPPING OF HOUSE DRAIN, WASTE OR VENT PIPES AND USED OF SADDLE HUB AND BEND ARE PROHIBITED.
4. PIPE CLEAN-OUTS
CLEAN-OUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS:
 - a) EVERY CHANGE OF HORIZONTAL DIRECTION EXCEEDING TWENTY TWO AND ONE-HALF DEGREES (22 1/2').
 - b) ONE AND ONE-HALF METERS (1.50m.) INSIDE THE PROPERTY LINES BEFORE THE HOUSE DRAINAGE CONNECTION.
 - c) EVERY FIFTEEN METERS (15.00m) IN HORIZONTAL RUN OF PIPES.
 - d) AT THE END OF ANY HORIZONTAL PIPE LINES.
5. THE DIGESTION CHAMBER OF SEPTIC VAULT MUST BE WATERPROOFED.
6. NOT LESS THAN 0.30 METER OF AIR SPACE MUST BE LEFT BETWEEN THE TOP OF THE SEWAGE AND THE UNDER PART OF VAULT ROOF SLAB.
7. NO SEPTIC VAULT SHALL BE CONSTRUCTED UNDER THE BUILDING.
8. ALL PLUMBING WORK SHALL BE UNDER THE SUPRVISION OF A LICENCED MASTER PLUMBER AND A LICENCED PLUMBING CONTRACTOR.

DESIGN CRITERIA

- i. LIVE LOAD _____ 1000Pa
- ii ALLOWABLE STRESSES
 1. CONCRETE
 - a. FOR FOOTING, BEAMS AND SLABS
$$f_c' = 20 \text{ MPa}$$
 2. CONCRETE MASONRY UNITS (LOAD BEARING CHB)
$$f_m' = 6.90 \text{ MPa}, f_m = 2.41 \text{ MPa}$$
 3. REINFORCING STEEL BARS
FOR BARS SMALLER THAN 16mm
$$f_y = 230 \text{ MPa}$$
 4. ASSUMED ALLOWABLE BEARING CAPACITY $\gamma = 100 \text{ KPa}$

NOTE:

- WATER TABLE IS 1500 BELOW GROUND LEVEL

GENERAL NOTES

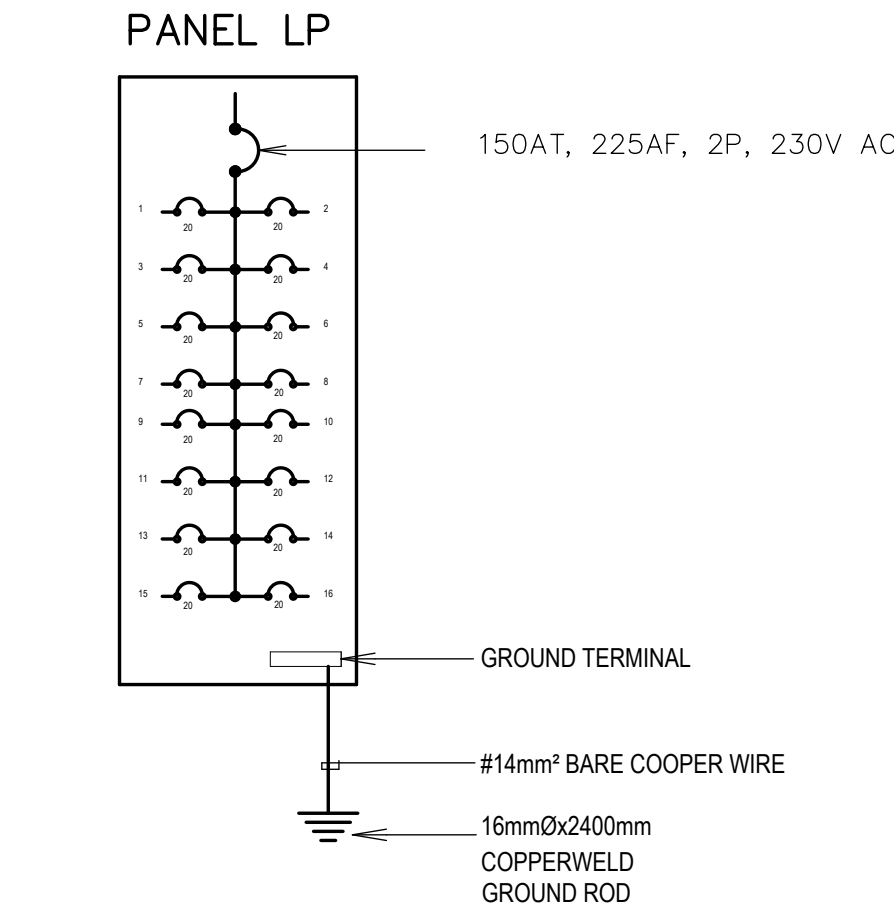
1. ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC). THE RULES AND REGULATION OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE DONE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
2. THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE, 230 V AC, 60 Hz.
3. WIRING METHOD SHALL BE AS FOLLOWS :
- a. FEEDERS AND RISERS – INTERMEDIATE METALLIC CONDUIT
 - b. LIGHTING, POWER RECEPTACLE – POLYVINYL CHLORIDE CONDUIT SCH. 40 BRANCH CKT., & AUXILIARY
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THW" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 15mmØ TRADE/NOMINAL SIZE. I
5. ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE WITH FACTORY KNOCKOUTS.
6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
7. GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
8. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
- a. LIGHT SWITCH – 1.20 M ABOVE FINISH FLOOR
 - b. CONVENIENCE OUTLET – 0.30 M ABOVE FINISH FLOOR.
 - c. PANELBOARD – 1.50 M ABOVE FINISH FLOOR
 - d. FIRE ALARM STATION OUTLET – 1.50 M. ABOVE FINISH FLOOR
 - e. PUSH BUTTON OUTLET – 1.20 M ABOVE FINISH FLOOR
 - f. FIRE ALARM & VIBRATING BELL – 0.30 M BELOW CEILING LINE

LEGEND

SYMBOL	DESCRIPTION
	– CEILING LIGHT OUTLET
	– 2 x 40 WATTS FLUORESCENT LAMP
	– CEILING FAN OUTLET
S/S _a	– ONE GANG DEVICE SWITCH
S _{ab}	– TWO GANG DEVICE SWITCH
S _{cde}	– THREE GANG DEVICE SWITCH
S _{3W}	– THREE WAY DEVICE SWITCH
S _f	– FAN CONTROL SWITCH
S _{EF}	– EXHAUST FAN SWITCH
	– RACEWAY CONDUIT CONCEALED IN CEILING
	– RACEWAY CONDUIT CONCEALED UNDER FLOOR
	– PANELBOARD
	– CKT. BREAKER, RATING AS INDICATED
	– DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 10 AMPS, 250 VOLT WITH MODERN PLATE COVER
	– EXHAUST FAN OUTLET, SINGLE, GROUNDING TYPE 10 AMPS, 250 VOLT WITH MODERN PLATE COVER
	– HOMERUN DIRECT TO PANELBOARD
	– PUSH BUTTON
	– ENCLOSED AIR CIRCUIT BREAKER
	– FIRE ALARM CONTROL PANEL
	– FIRE ALARM STATION OUTLET
	– VIBRATING BELL OUTLET
	– FIRE ALARM BELL
	– SERVICE METER
	– SERVICE ENTRANCE

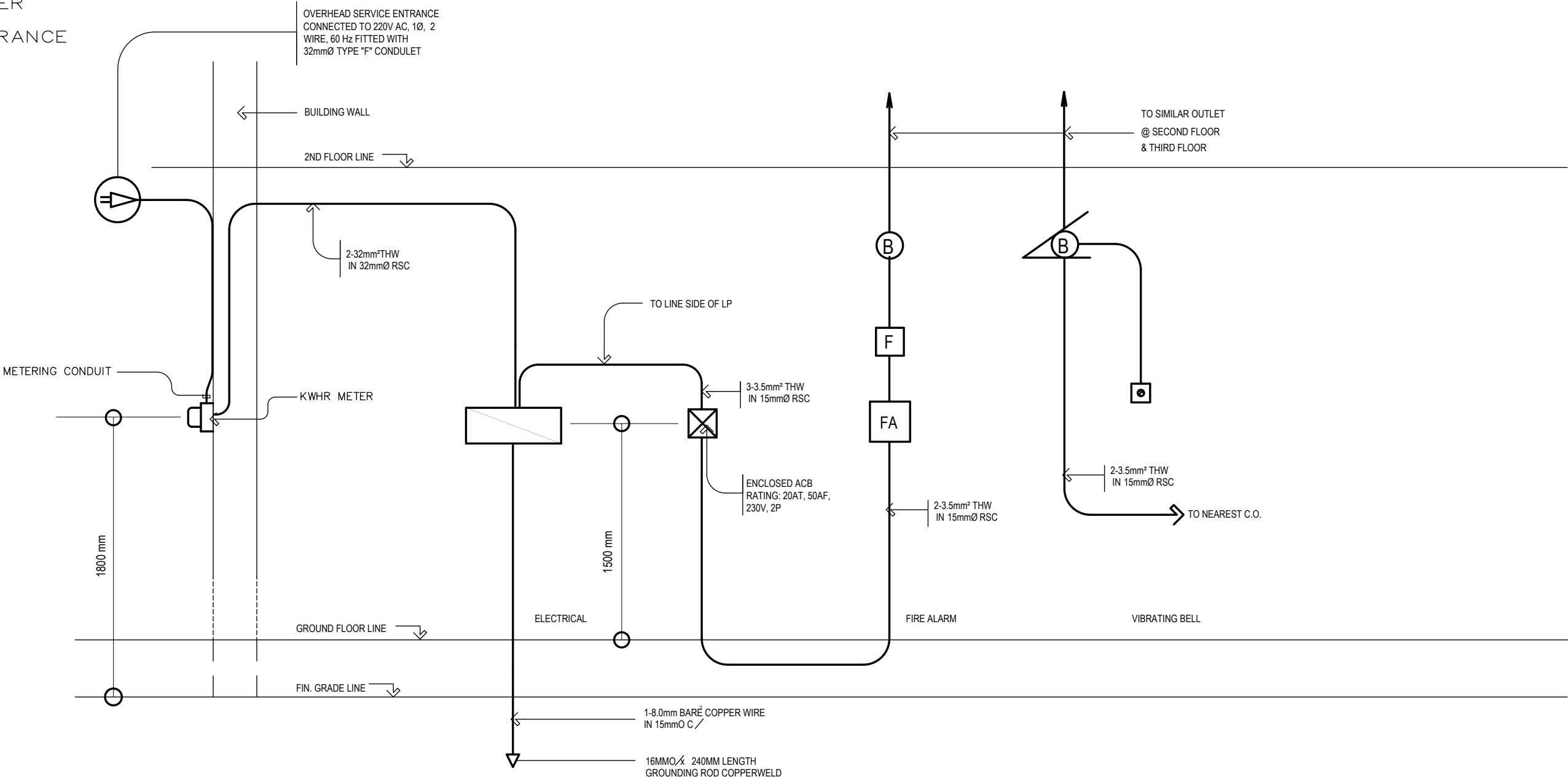
LOAD SCHEDULE

PANELBOARD: LP							
MAIN : 100AT, 100AF, 2P, 230V							
CKT. NO.	DESCRIPTION	VA LOAD	CIRCUIT BREAKER				WIRE & CONDUIT SIZE
			VOLT	POLE	A T	A F	
1	CONVENIENCE OUTLET - 9x180w	1860	230	2	20	50	3.35mm² THW IN 15mmØ C
2	CONVENIENCE OUTLET - 9x180w	1860	230	2	20	50	3.35mm² THW IN 15mmØ C
3	CONVENIENCE OUTLET - 6x180w	1080	230	2	20	50	3.35mm² THW IN 15mmØ C
4	LIGHTING OUTLET	1460	230	2	20	50	3.35mm² THW IN 15mmØ C
5	LIGHTING OUTLET	1500	230	2	20	50	3.35mm² THW IN 15mmØ C
6	LIGHTING OUTLET	1200	230	2	20	50	3.35mm² THW IN 15mmØ C
7	LIGHTING OUTLET	1000	230	2	20	50	3.35mm² THW IN 15mmØ C
8	LIGHTING OUTLET	1100	230	2	20	50	3.35mm² THW IN 15mmØ C
9	LIGHTING OUTLET	1100	230	2	20	50	3.35mm² THW IN 15mmØ C
10	S P A R E	1500	230	2	20	50	_____
11	S P A R E	1500	230	2	20	50	_____
TOTAL		14680					
IL @ 80% D.F. = $14680 \times 80\% \times 1.25 = 63.8 \text{ A}$ 230 V							
FEEDER: 2-30mm² THW IN 32mmØ C PROTECTION: 150 AT, 225 AF, 2P, 230 V							



SINGLE LINE DIAGRAM

NOT TO SCALE



RISER DIAGRAM

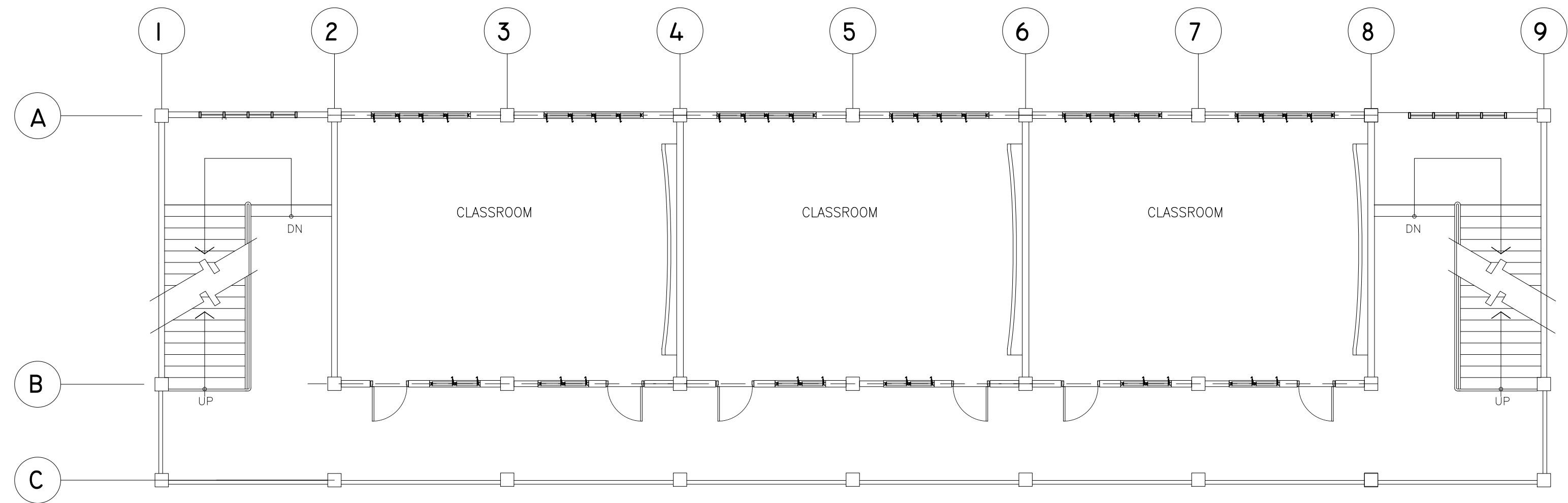
NOT TO SCALE

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY	CONSULTANT / DESIGNER VENERANDO D. SAHAGUN ENGINEER II	REVIEWED BY: FE M. BARRIOS CHIEF, ELECTRICAL DIVISION BUREAU OF DESIGN, DPWH	RECOMMENDING APPROVAL : SOFIA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH	APPROVED FOR ACCREDITATION : GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH	CONCURRED : RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)	PROJECT TITLE : THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE	PROJECT NO: 01-002 DESIGNED BY: RDS ENCODED BY: Max C CHECKED BY: DATE : 6-23-03	OWNER : DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : GENERAL NOTES LOAD SCHEDULE LEGEND SINGLE LINE DIAGRAM RISER DIAGRAM	SHEET NO: E-1 3
	PRC NO. : _____ TIN : _____ PTR NO. : _____ DATE : _____					LOCATION :			

THE REVIEW & APPROVAL OF THIS PLANS BY THE DPWH DOES NOT RELIEVE THE DESIGNER/CONSULTANT FROM RESPONSIBILITY FOR THE SAFETY OF THE COMPLETED FACILITIES AS WELL AS FOR THE FAILURE OF THE SAME DUE TO FAULTY DESIGN.

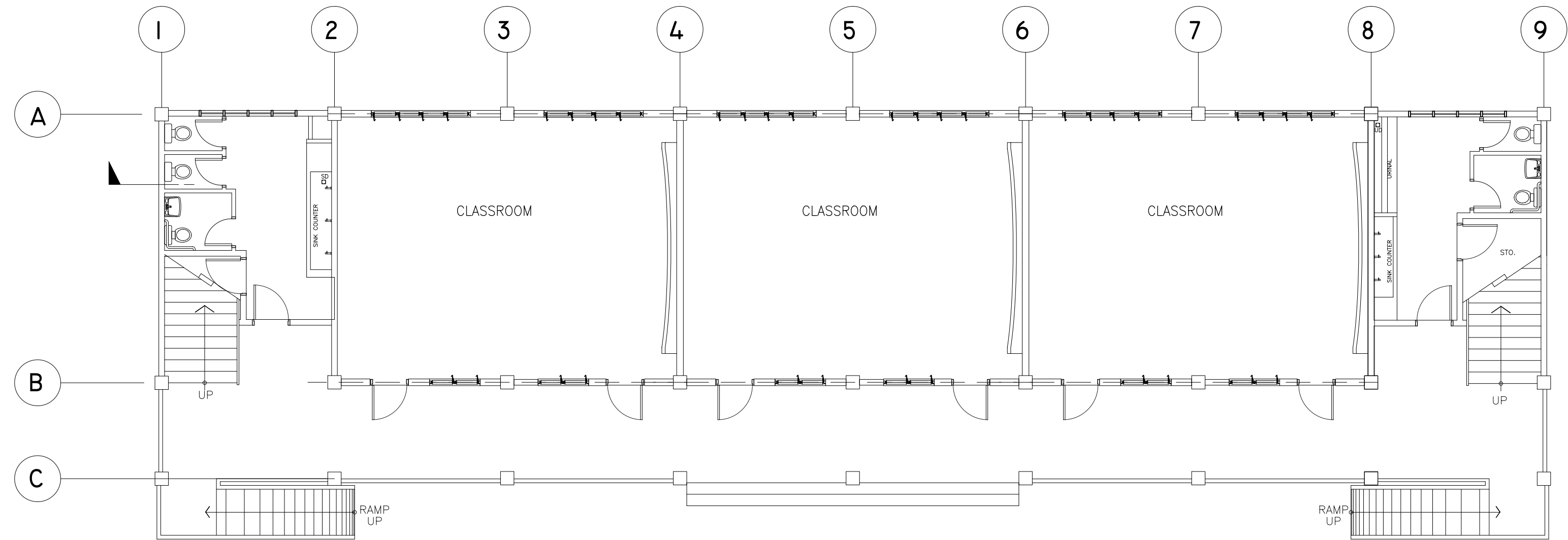
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REP. ACT 545







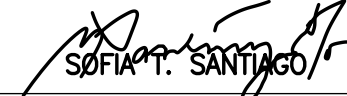

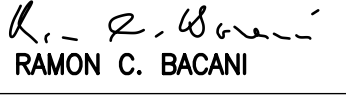
TYPICAL 2ND & 3RD FLOOR LIGHTING LAYOUT

SCALE : 1 : 100 METERS



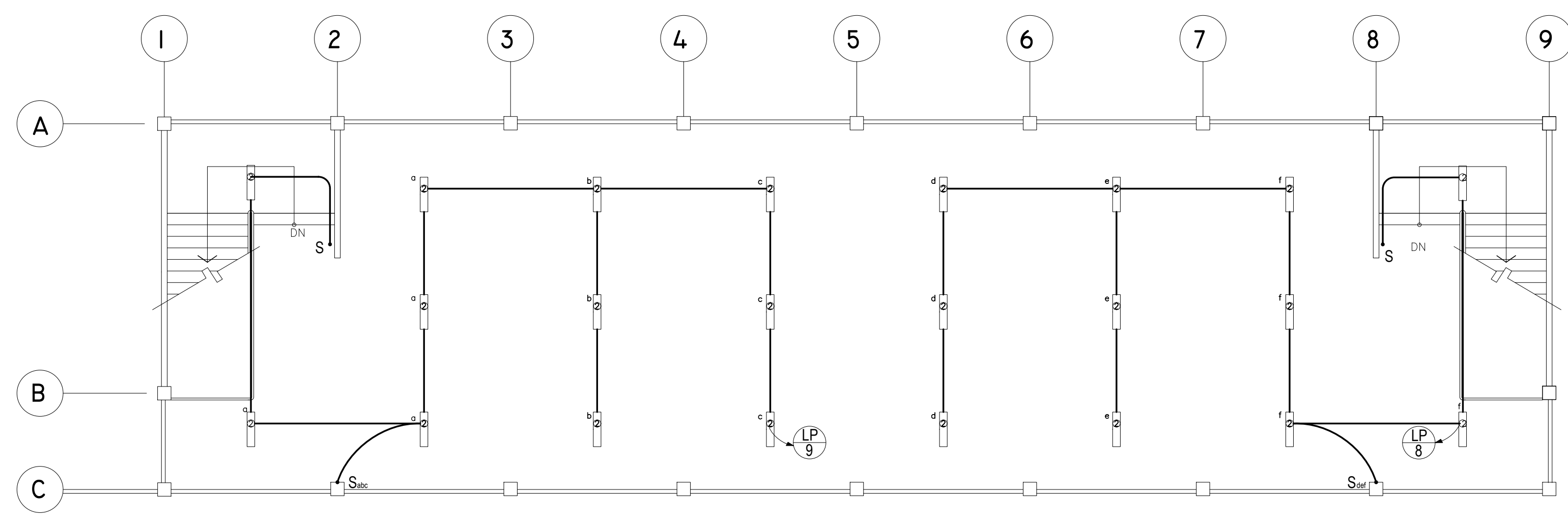
GROUND FLOOR LIGHTING LAYOUT

SCALE : 1 : 100 METERS

<div><div>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</div></div>	CONSULTANT / DESIGNER <div> VIRGILIO T. MAGUIG ELECTRICAL ENGINEER</div>	REVIEWED BY: <div> FE M. BARRIOS CHIEF, ELECTRICAL DIVISION BUREAU OF DESIGN, DPWH</div>	RECOMMENDING APPROVAL : <div> SOFIA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH</div>	APPROVED FOR ACCREDITATION : <div> GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH</div>	CONCURRED : <div> RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)</div>	PROJECT TITLE : THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE	PROJECT NO: 01-002 DESIGNED BY: RDS ENCODED BY: Max C CHECKED BY: DATE : 01 03	OWNER : DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : LIGHTING LAYOUT	SHEET NO: E-2 3
	PRC NO. : _____ TIN : _____ PTR NO. : _____ DATE : _____					LOCATION :			

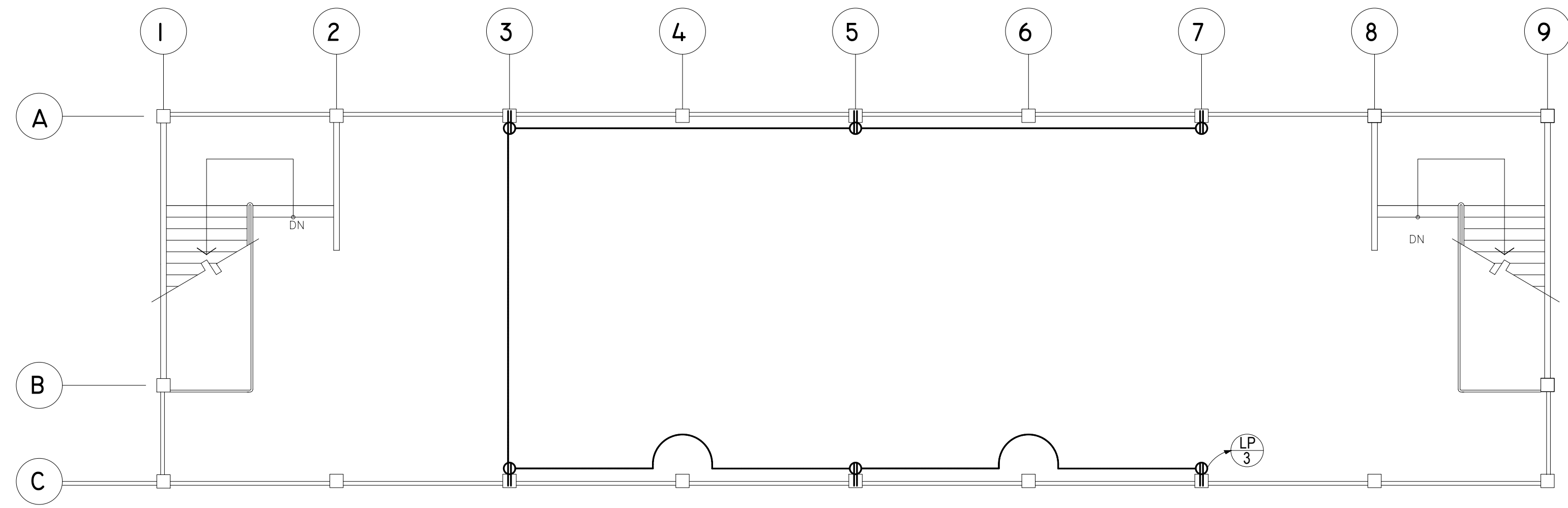
THE REVIEW & APPROVAL OF THIS PLANS BY THE DPWH DOES NOT RELIEVE THE DESIGNER/CONSULTANT FROM RESPONSIBILITY FOR THE SAFETY OF THE COMPLETED FACILITIES AS WELL AS FOR THE FAILURE OF THE SAME DUE TO FAULTY DESIGN.

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THIRD FLOOR LIGHTING LAYOUT

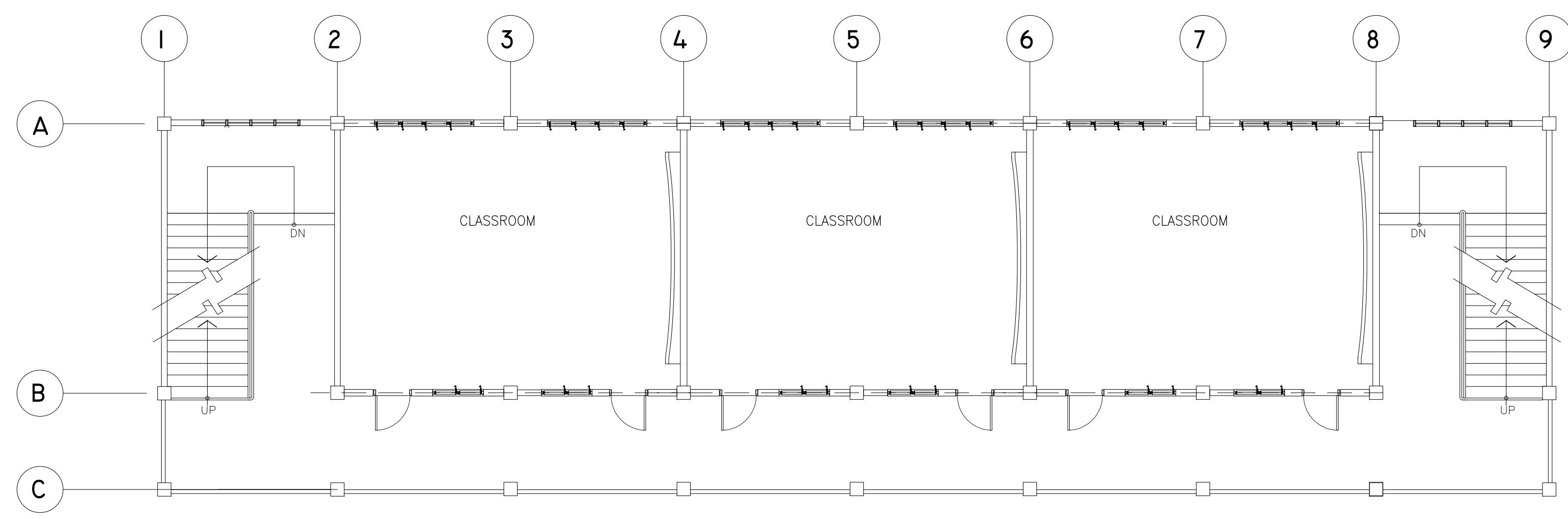
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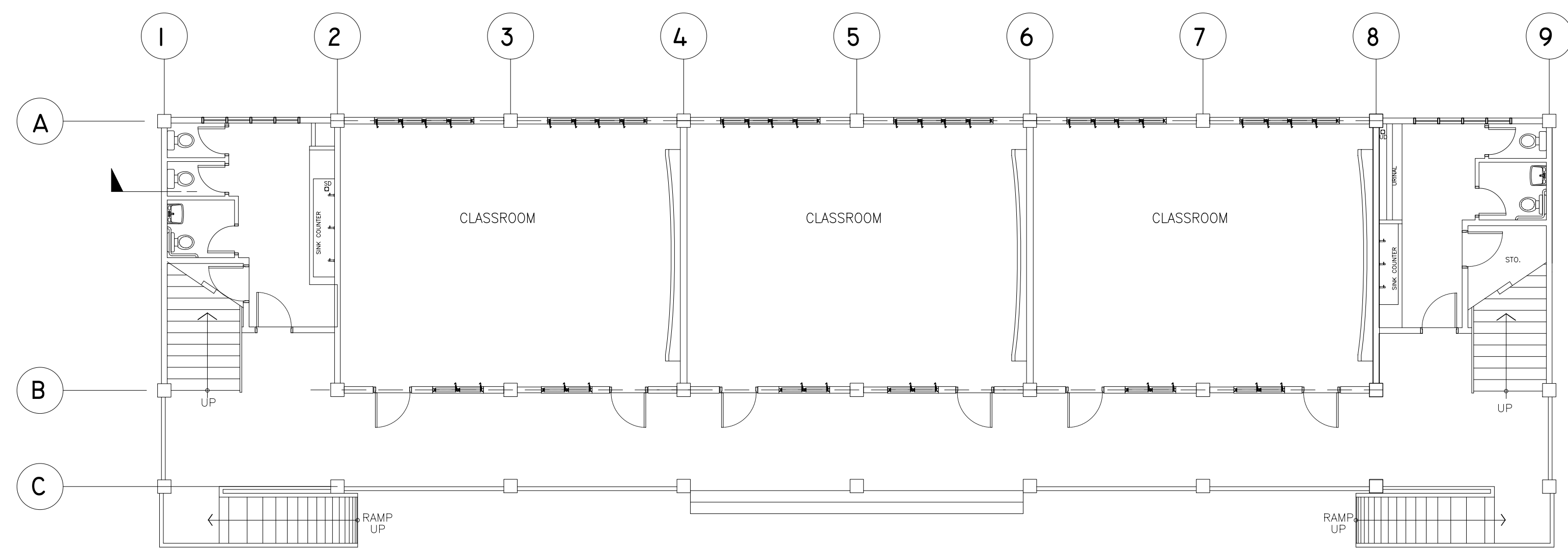
THIRD FLOOR POWER LAYOUT

SCALE : 1 : 100 METERS



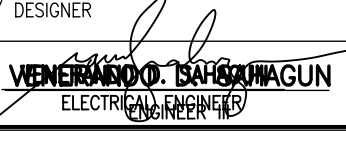
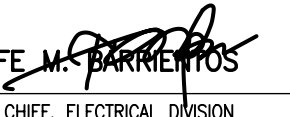


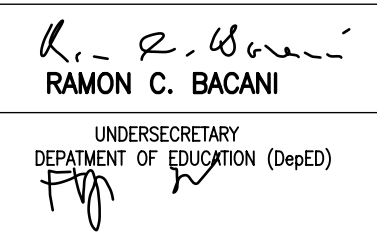
<div><div><div></div><div>REPUBLIC OF THE PHILIPPINES</div><div>DEPARTMENT OF EDUCATION (DepED)</div><div>TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING</div><div>MERALCO AVENUE, PASIG CITY</div></div><div><div></div><div></div></div></div>	CONSULTANT / DESIGNER VENERANDO D. SAHAGUN ENGINEER III	REVIEWED BY: FE M. BARRIENTOS CHIEF, ELECTRICAL DIVISION BUREAU OF DESIGN, DPWH	RECOMMENDING APPROVAL : SOFIA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH	APPROVED FOR ACCREDITATION : GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH	CONCURRED : RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)	PROJECT TITLE : THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE	PROJECT NO: 01-002 DESIGNED BY: RDS ENCODED BY: Max C CHECKED BY: DATE : 01 03	OWNER : DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : POWER LAYOUT	SHEET NO: E-3 3
	PRC NO. : PTR NO. :	TIN : DATE :				LOCATION :			



TYPICAL 2ND & 3RD FLOOR POWER LAYOUT
SCALE : 1 : 100 METERS



GROUND FLOOR POWER LAYOUT
SCALE : 1 : 100 METERS

<div><div>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</div></div>	CONSULTANT / DESIGNER <div> VENERANDO S. MAGUIG ELECTRICAL ENGINEER</div>	REVIEWED BY: <div> FE M. BARRIOS CHIEF, ELECTRICAL DIVISION BUREAU OF DESIGN, DPWH</div>	RECOMMENDING APPROVAL : <div> SOFIA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH</div>	APPROVED FOR ACCREDITATION : <div> GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH</div>	CONCURRED : <div> RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)</div>	PROJECT TITLE : THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE LOCATION :	PROJECT NO: 001-0022 DESIGNED BY: RDS ENCODED BY: RDS C CHECKED BY: DATE :6-23-08 03	OWNER : DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : POWER LAYOUT	SHEET NO: E-3 3
	PRC NO. : _____ TIN : _____ PTR NO. : _____ DATE : _____								

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