

PLAN OF ROOF DECK

SCALE 1:150 M.

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO.:	
E. N. RODEROS PPU	J. L. REYES DEAN - SILANG CAMPUS	E. N. RODEROS PPU	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. J. D. TERPORA VPPD	C. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	REPAIR AND IMPROVEMENT OF ROOF DECK CAVITE STATE UNIVERSITY SILANG CAMPUS	CAVITE STATE UNIVERSITY	A - 1

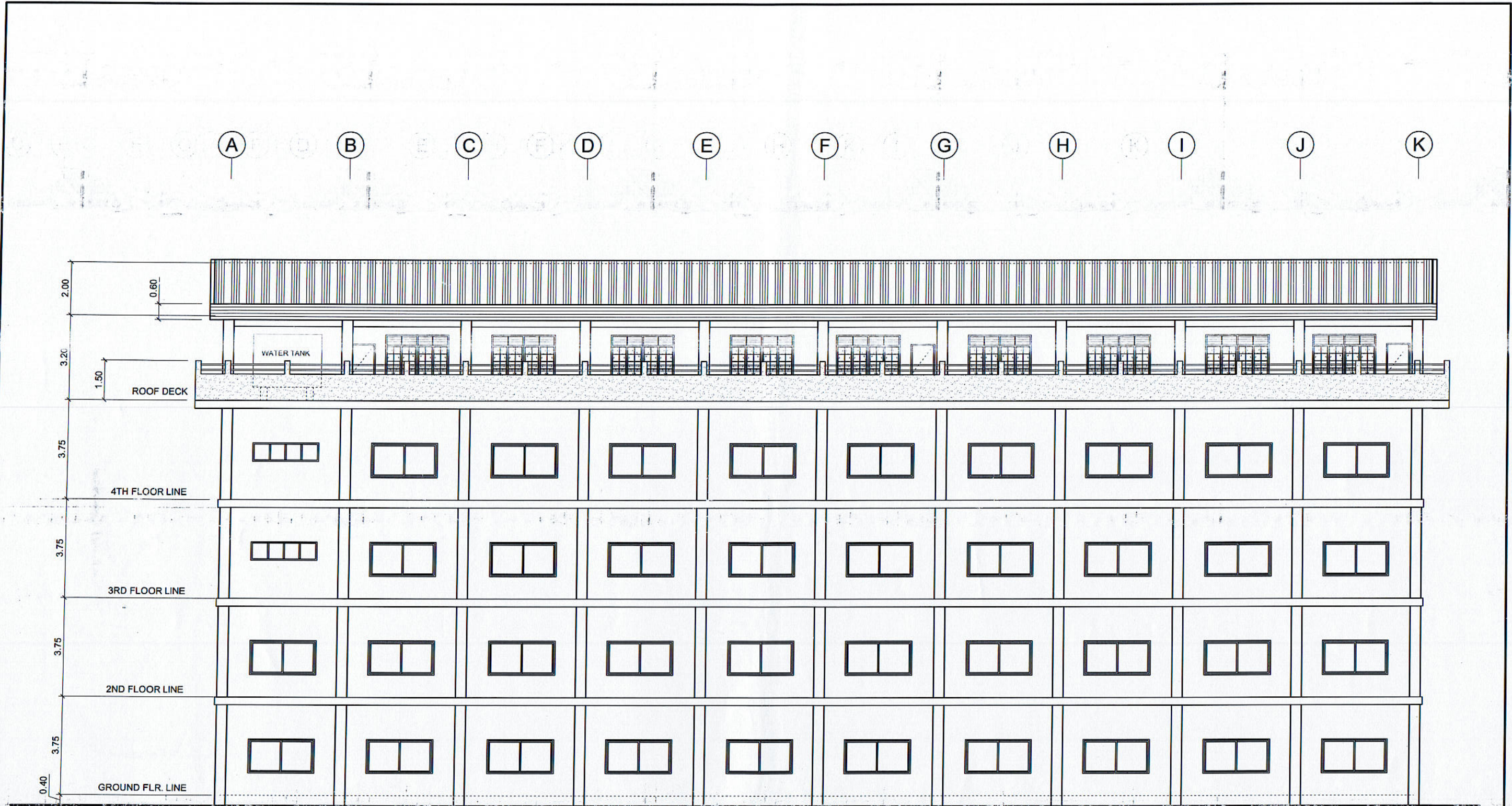
K J I H G F E D C B A



0.80 2.00
 3.20
 ROOF DECK
 0.50
 3.75
 4TH FLOOR LINE
 3.75
 3RD FLOOR LINE
 3.75
 2ND FLOOR LINE
 3.75
 GROUND FLR. LINE
 0.40

FRONT ELEVATION FRONT ELEVATION FRONT ELEVATION
 SCALE 1: 150 M.

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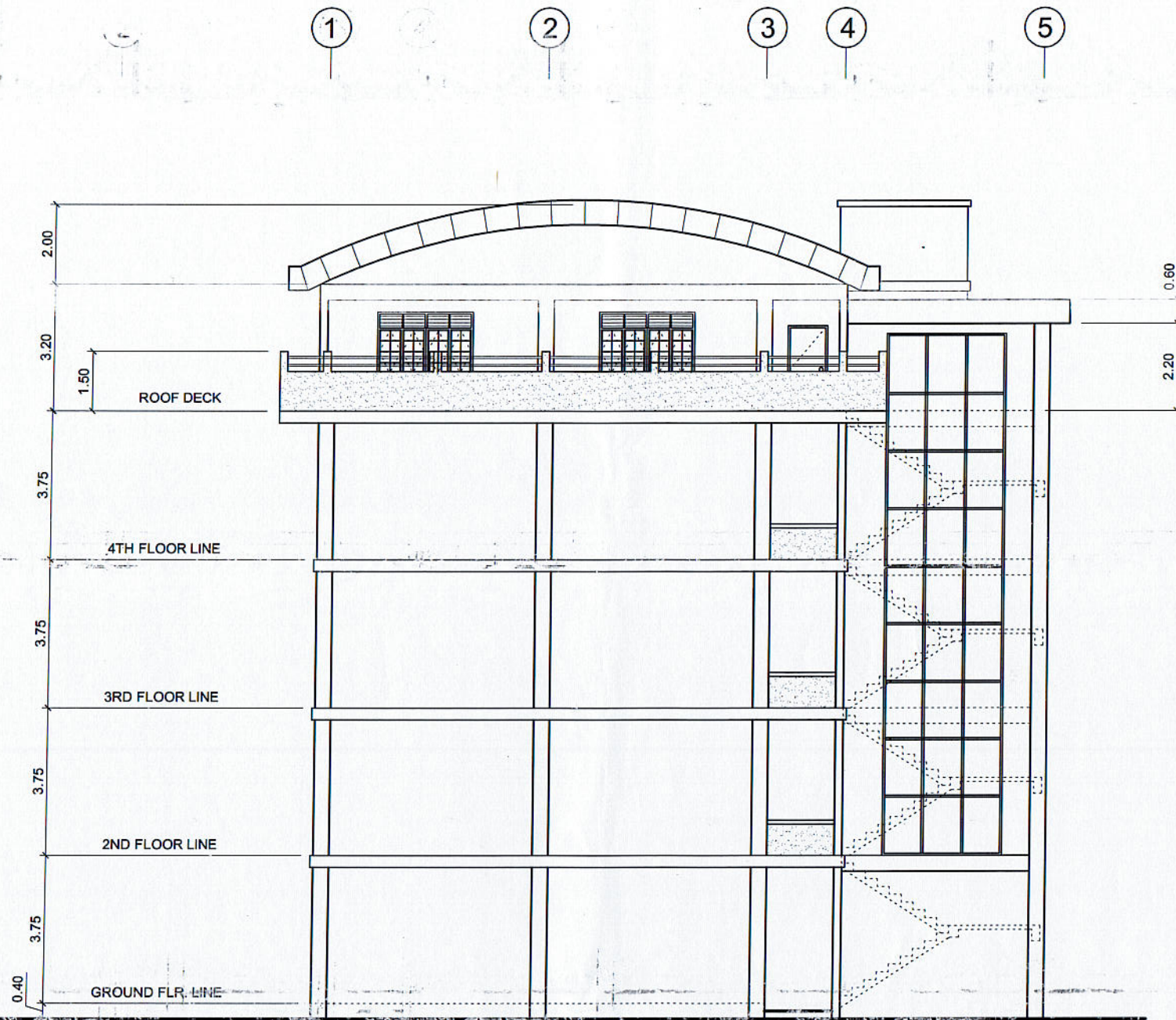


REAR ELEVATION

SCALE

1: 150 M.

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	 E. N. RODEROS PPU OVRPD	 J. REYES DEAN SILANG CAMPUS	 E. N. RODEROS PPU OVRPD	 O. B. DELOS REYES DIRECTOR PLANNING OFFICE	 M. J. O. TEOPORA VPPD CVSU	 C. A. POLINGA VPASS CVSU	 H. D. ROBLES PRES CVSU	REPAIR AND IMPROVEMENT OF ROOF DECK CAVITE STATE UNIVERSITY SILANG CAMPUS	CAVITE STATE UNIVERSITY

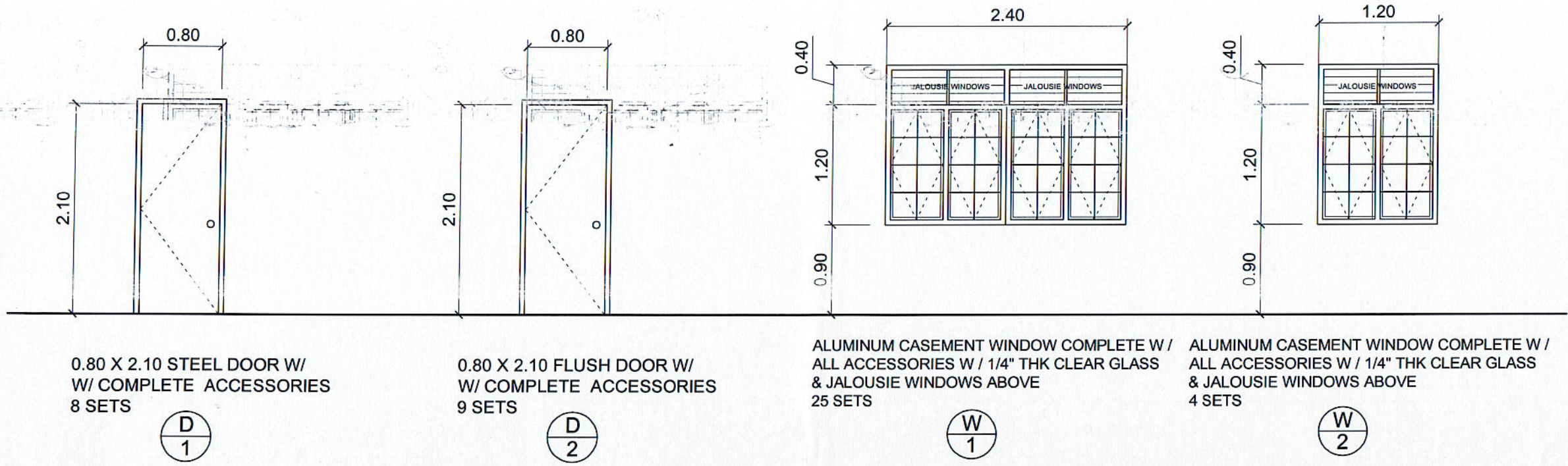


LEFT SIDE ELEVATION LEFT SIDE ELEVATION LEFT SIDE ELEVATION LEFT SIDE ELEVATION

SCALE

1: 150 M.

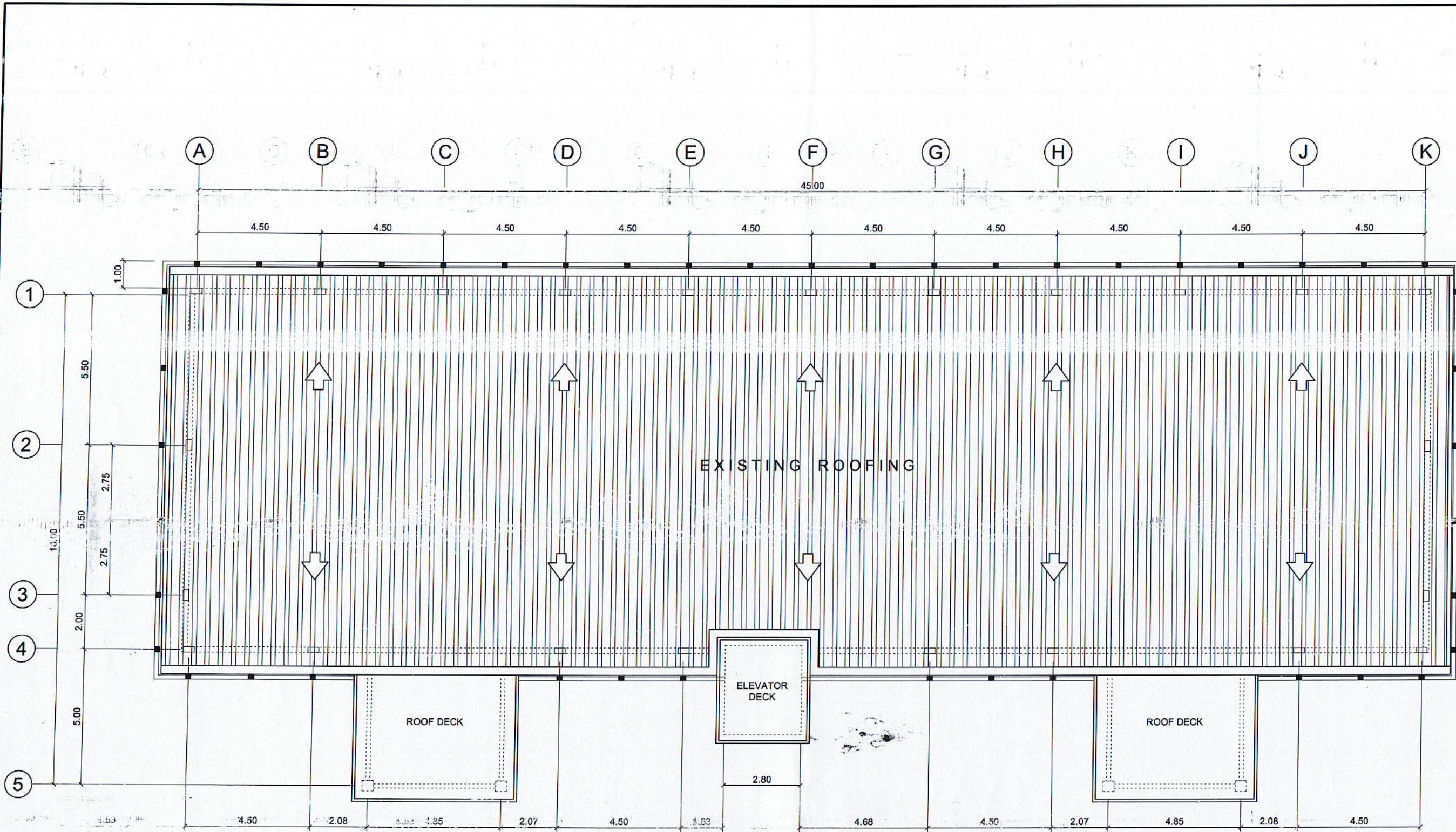
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SCHEDULE OF DOORS & WINDOWS

SCALE 1: 50 M.

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EXISTING ROOFING

ELEVATOR DECK

ROOF DECK

ROOF DECK

ROOF PLAN

SCALE 1:150 M.

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	<i>E. N. RODEROS</i> E. N. RODEROS PPU OVPPD	<i>J. L. REYES</i> J. L. REYES DEAN SILANG CAMPUS	<i>E. N. RODEROS</i> E. N. RODEROS PPU OVPPD	<i>C. B. DELOS REYES</i> C. B. DELOS REYES DIRECTOR PLANNING OFFICE	<i>M. J. D. TEPORA</i> M. J. D. TEPORA VPPD CVSU	<i>C. A. POLINGA</i> C. A. POLINGA VPASS CVSU	<i>H. D. ROBLES</i> H. D. ROBLES PRES CVSU	REPAIR AND IMPROVEMENT OF ROOF DECK CAVITE STATE UNIVERSITY SILANG CAMPUS	CAVITE STATE UNIVERSITY

GENERAL NOTES AND SPECIFICATIONS :

1. ALL WORK HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
2. ELECTRICAL WORKS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, MUNICIPAL/CITY LAWS AND ORDINANCES AND THE REGULATIONS FO THE LOCAL POWER AND TELEPHONE COMPANY.
3. THE JOB SHALL BE EXECUTED IN THE MOST THOROUGH PROMPT AND WORKMANLIKE MANNER EMPLOYING STANDARD TOOLS, EQUIPMENT, METHODS AND GOOD ENGINEERING PRACTICE. THE JOB SHALL BE DONE IN ALL ASPECTS AS REQUIRED PER PLANS AND SPECIFICATIONS AND READY FOR OPERATION.
4. THERE SHALL BE ONLY ONE SERVICE DROP IN A BUILDING WITH 230 VOLTS, 3 WIRE (LINE) PLUS 1 WIRE (GROUND), 3 PHASE, 60 CYCLE.
5. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PERSENT A GENERAL LAYOUT AND BROAD OUTLINE/DESCRIPTION OF THE PROJECT, BUT DO NOT NECESSARILY INDICATE OR DESCRIBE ACTUAL LOCATIONS, LEVELS AND DISTANCES OF THE EQUIPMENT. THE CONTRACTOR IS HEREBY REQUIRED TO MAKE SUCH ADJUSTMENTS AT THE JOBSITE THAT ARE GOVERNED BY ACTUAL FIELD CONDITION.
6. SERVICE VOLTAGE TO THE BUILDING FROM THE POWER SOURCE SHALL BE 230V.
7. SERVICE ENTRANCE WIRING SHALL BE RIGID STEEL CONDUIT (RSC).
8. FEEDER WIRING SHALL BE ELECTRIGAL METALLIC TUBING (EMT).
9. BRANCH CIRCUIT WIRING ELECTRICAL METALLIC TUBING (EMT).
10. BRANCH CIRCUIT WIRING EMBEDDED IN CONCRETE SHALL BE IN PVC PIPE WITH ADEQUATE GROUND WIRE FOR EQUIPMENT GROUNDING.
11. LIGHT SWITCHES SHALL BE 15A, 230VAC.
12. ALL MATERIALS SHALL BE BRAND NEW AND OF APPROVED TYPE FOR LOCATION AND PURPOSE INTENDED.
13. DEVICES, FIXTURES LOCATED OUTDOOR SHALL BE WEATHERPROOF TYPE.
14. MOUNTING HEIGHTS ARE:

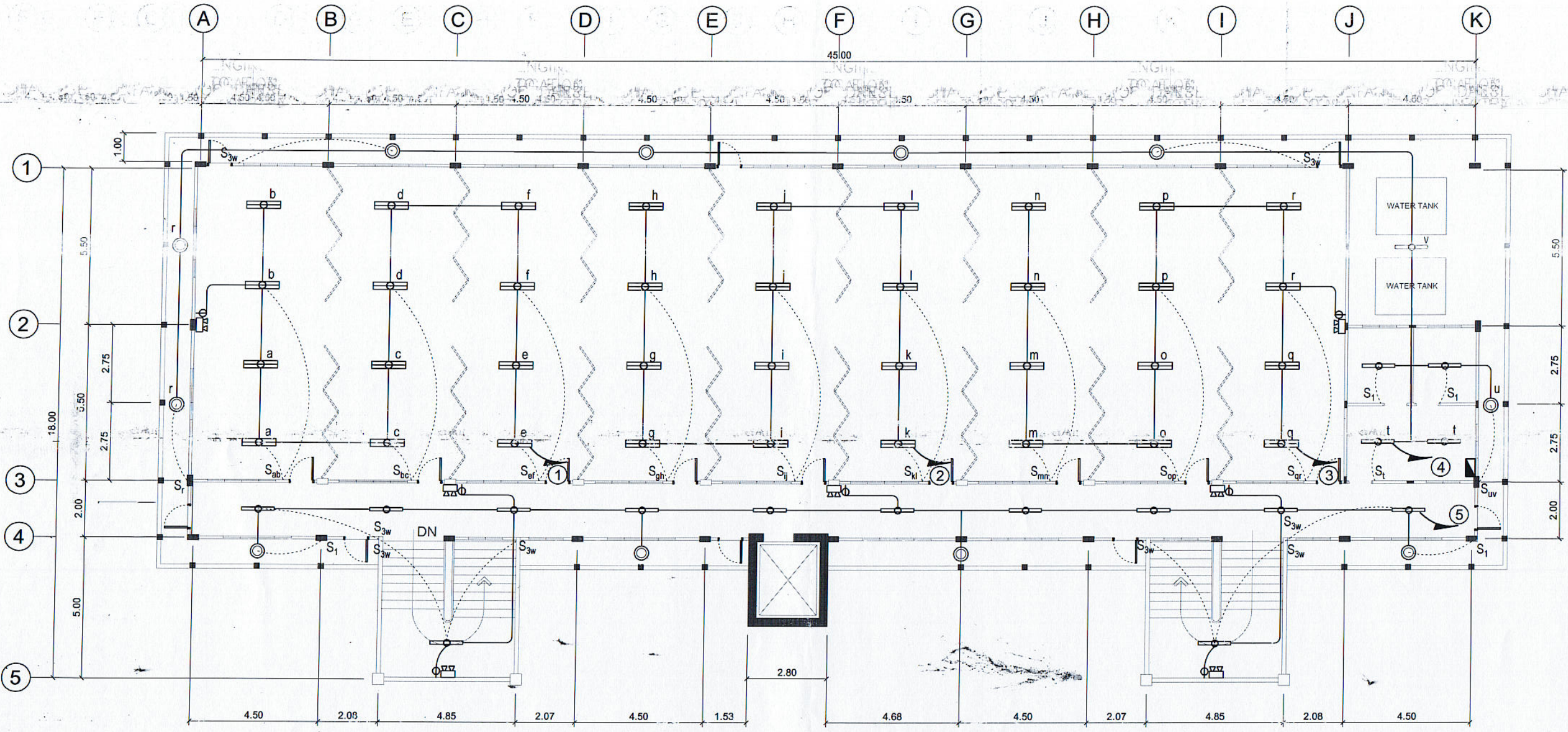
A. LIGHT SWITCHES	1.40M ABOVE FLOOR FINISH
B. CONVENIENCE OUTLETS	0.30M ABOVE FLOOR FINISH
C. C.O. COUNTER TOP	0.30M ABOVE THE COUNTER
D. TELEPHONE OUTLETS	0.30M ABOVE FLOOR FINISH
E. PANEL BOARD	1.50M ABOVE FLOOR FINISH
F. EMERGENCY LIGHT	0.30M BELOW CEILING LINE

15. ANY DESCRIPANCY BETWEEN THE PLANS AND SPAECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION OR DECISION.
16. THE ENTIRE WORK SHALL BE DONE UNDER THE DIRECT SUPERVISION OF DULY REGISTERED ELECTRICAL ENGINEER.
17. REFER TO SHEETS E-2 LOCATIONS FOR EXACT NUMBER AND LOCATION OF DEVICES/EQUIPMENT FOR ELECTRICAL SYSTEM. ANY CONFLICT ON QUANTITY AND/OR LAYOUT MUST BE VERIFIED AND CONFIRMED TO DESIGNER/CONSULTANT.
18. REFER TO LOAD SCHEDULE FOR THE RATING OF INDIVIDUAL ENCL, ACB'S IN NEMA-3R.
19. ALL ELECTRICAL CONDUITS AND TELEPHONE SERVICE ENTRANCE THAT INSTALLED BELOW THE GROUND SHALL BE IN CONCRETE ENCASEMENT.
20. ANY DEVICES OR EQUIPMENT NOT REFLECTED OR SHOWN ON PLANS BUT REQUIRED TO COMPLETE THE SYSTEM MUST BE INCLUDED ON SCOPE OF WORK.
21. REQUEST FOR TEMPORARY POWER INTERRUPTION SHOULD BE COORDINATED TO OWNER'S REPRESENTATIVE OR DESIGNER.

LEGEND AND SYMBOLS :

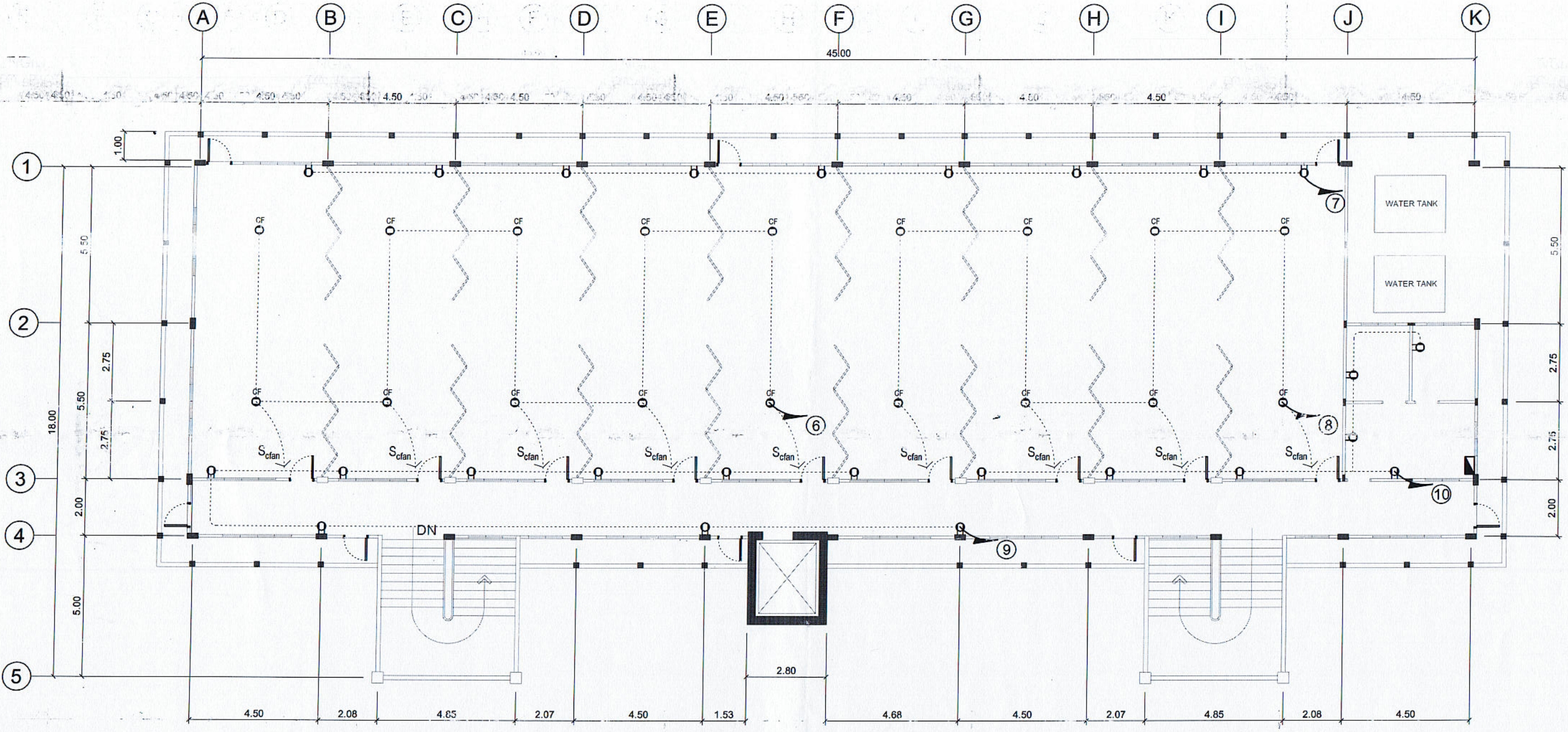
	LED LIGHT BULB, 9W w/ 6" SURFACE TYPE VERTICAL ROUND FIXTURE (PL)		ACU CONDENSER OUT DOOR UNIT WITH NEMA 3R CIRCUIT BREAKER
	LED SPOT LIGHT, 100W, IP65 (SL)		ACU WALL/FLOOR MOUNTED, SPLIT TYPE, INDOOR UNIT
	1-9W LIGHT TUBE, T5 w/ FIXTURES 2 FT. LENGTH (FL)		2.0 mm ² THHN
	2-9W LIGHT TUBE, T5 w/ FIXTURES 2 FT. LENGTH (FL)		3.5 mm ² THHN
	1-18W LIGHT TUBE, T8 w/ FIXTURES 4 FT. LENGTH (FL)		CIRCUIT HOMERUN
	2-18W LIGHT TUBE, T8 w/ FIXTURES 4 FT. LENGTH (FL)		CIRCUIT NUMBER
	EMERGENCY LIGHT (EL)		PANEL BOARD
	S _{cfan} CEILING FAN SWITCH		SERVICE ENTRANCE
	S ₁ S _A ONE GANG SWITCH		KILOWATT HOUR METER
	S ₂ S _{AB} TWO GANG SWITCH		CONCRETE ENCASEMENT
	S ₃ THREE GANG SWITCH		CABLE CHAMBER
	S _{3W} THREE WAY SWITCH		DISTRIBUTION TRANSFORMER
	CF CEILING FAN OUTLET		PRIMARY CONCRETE POLE
	Two GANG CONVENIENCE OUTLET		SERVICE ENTRANCE PEDESTAL WITH DISCONNECTING SWITCH
	THREE PIN AND OUTLET		TRUSS/DOWN GUY SUPPORT
	MAIN WINDOW TYPE		PRIMARY LINE

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120V LIGHTING OUTLET LAYOUT
 SCALE: 1:150 M.

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CONVENIENCE AND CEILING FAN LAYOUT

E 3 SCALE 2:50 M:100 E 3 SCALE 2:50 M:100 E 3 SCALE 2:50 M:100 E 2:50 M:100 E 2:50 M:100

PREPARED BY:	PROFESSIONAL ELECTRICAL ENGR.	EMP. USER	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO.:	
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SCHEDULE OF LOADS

PANEL : LDP (LIGHTING AND POWER DECK) CABLE: 3 - 14.0 SQMM THHN+ 1 - 3.5 SQMM THW MAIN: 50AT, 50AF, 3P, 230V, MCCB ENCLASURE: NEMA 1 CONDUIT: PVC, 32 MM Ø MOUNTING: SURFACE

PHASE: 3 LOCATION: ROOF DECK

VOLTS: 230

CKT NO.	CIRCUIT DESCRIPTION	NO.	LOAD IN RATING			CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MMØ	Color Code
			Volt- Amp	VOLT	AMPERES			SQ. MM THHN		
1	LIGHTING OUTLET (12 FL + 1 EL)	13	1300	230	5.65	15AT, 2P, 230V, MCCB	2 - 2.0	PVC, 20	1R,1B	
2	LIGHTING OUTLET (12 FL)	12	1200	230	5.22	15AT, 2P, 230V, MCCB	2 - 2.0	PVC, 20	1R,1B	
3	LIGHTING OUTLET (12 FL + 1 EL)	13	1300	230	5.65	15AT, 2P, 230V, MCCB	2 - 2.0	PVC, 20	1B,1Y	
4	LIGHTING OUTLET (12 FL)	12	1200	230	5.22	15AT, 2P, 230V, MCCB	2 - 2.0	PVC, 20	1B,1Y	
5	LIGHTING OUTLET (12 FL + 1 EL)	21	2100	230	5.65	15AT, 2P, 230V, MCCB	2 - 2.0	PVC, 20	1Y,1R	
6	CEILING FAN OUTLET	10	800	230	3.48	20AT, 2P, 230V, MCCB	2 + 3.5 + G2.0	PVC, 20	1Y,1R,G	
7	CONVENIENCE OUTLET	9	1620	230	7.04	20AT, 2P, 230V, MCCB	2 - 3.5 + G2.0	PVC, 20	1R,1B,G	
8	CEILING FAN OUTLET	8	640	230	2.78	20AT, 2P, 230V, MCCB	2 - 3.5 + G2.0	PVC, 20	1R,1B,G	
9	CONVENIENCE OUTLET	9	1620	230	7.04	20AT, 2P, 230V, MCCB	2 - 3.5 + G2.0	PVC, 20	1B,1Y,G	
	SPARE									
10	CONVENIENCE OUTLET	7	1260	230	5.48	20AT, 2P, 230V, MCCB	2 - 3.5 + G2.0	PVC, 20	1Y,1R,G	
	SPARE									
TOTAL			9520	230	21 18 18	50AT, 3P, 230V, MCCB	3 - 14.0 + G3.5	PVC, 32	1R,1B,1Y,G	

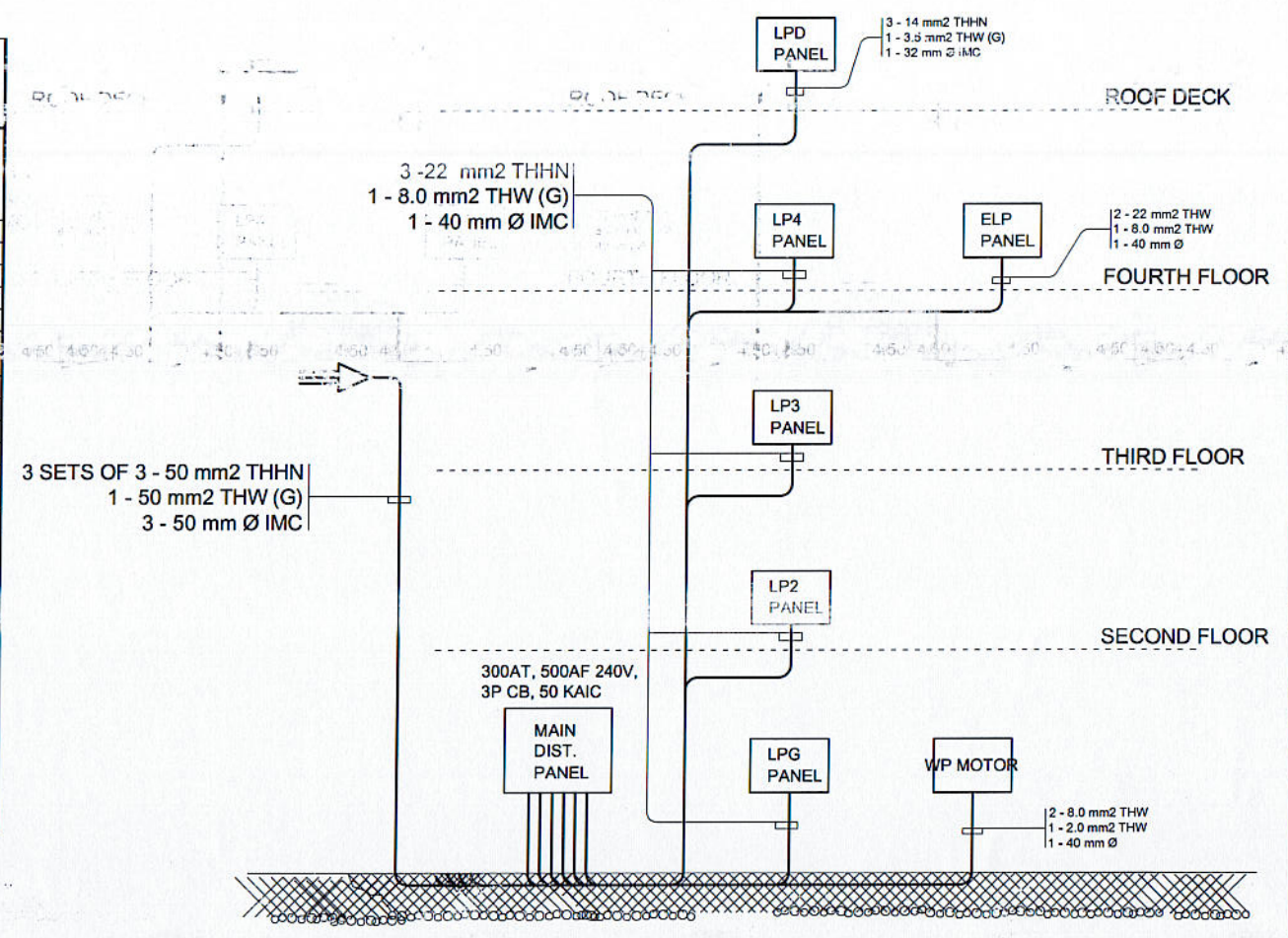
MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE: $I_{L1} = (21 \times 1.732) / \sqrt{3} = 29.10$ Amperes
 $I_{CB} = (21 \times 1.732) / \sqrt{3} = 29.10$ Amperes

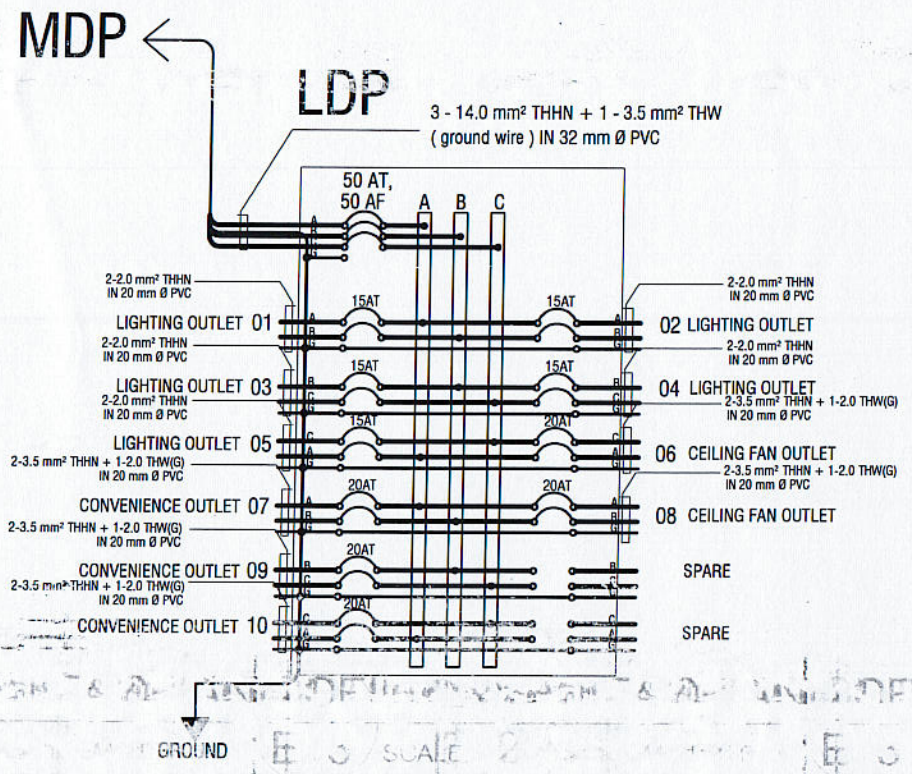
use: 3 - 14.0 SQMM THHN+ 1 - 3.5 SQMM THW IN 32 MM DIA. PVC
 use: 50AT, 50AF, 3P, 230V, MCCB

G - Means Ground Wire
 1R- Color RED
 1B- Color BLACK
 1Y- Color YELLOW
 1G- Color GREEN

This Electrical Design is good only for the above connected loads.
 Any additional electrical load connection in the future is not allowed,
 Except redesign of electrical load system will be done.

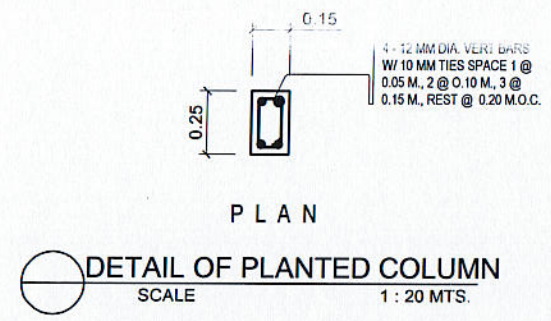
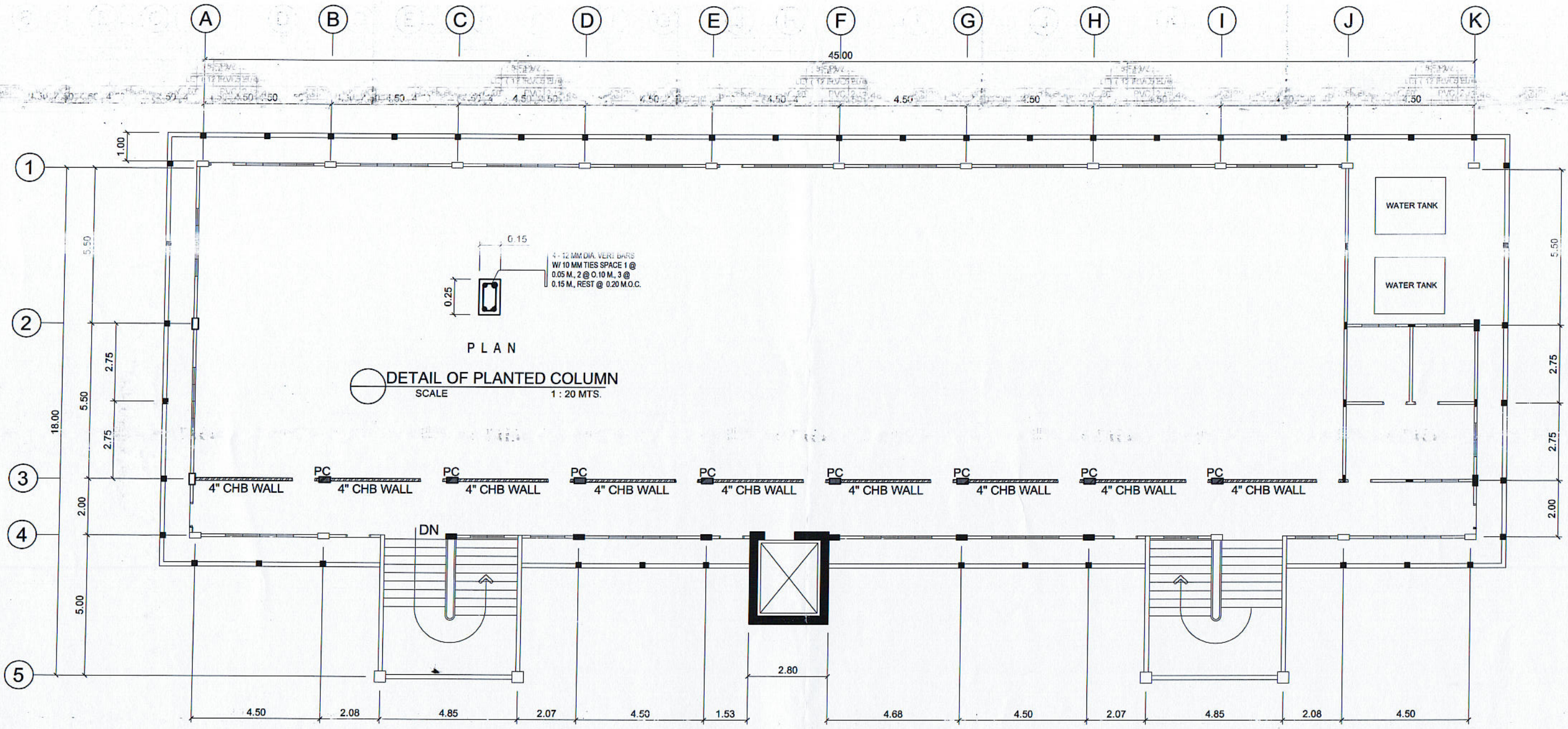


1 SINGLE LINE DIAGRAM
 E 4 SCALE NTS



2 PANEL BOARD DETAILS
 E 4 SCALE NTS

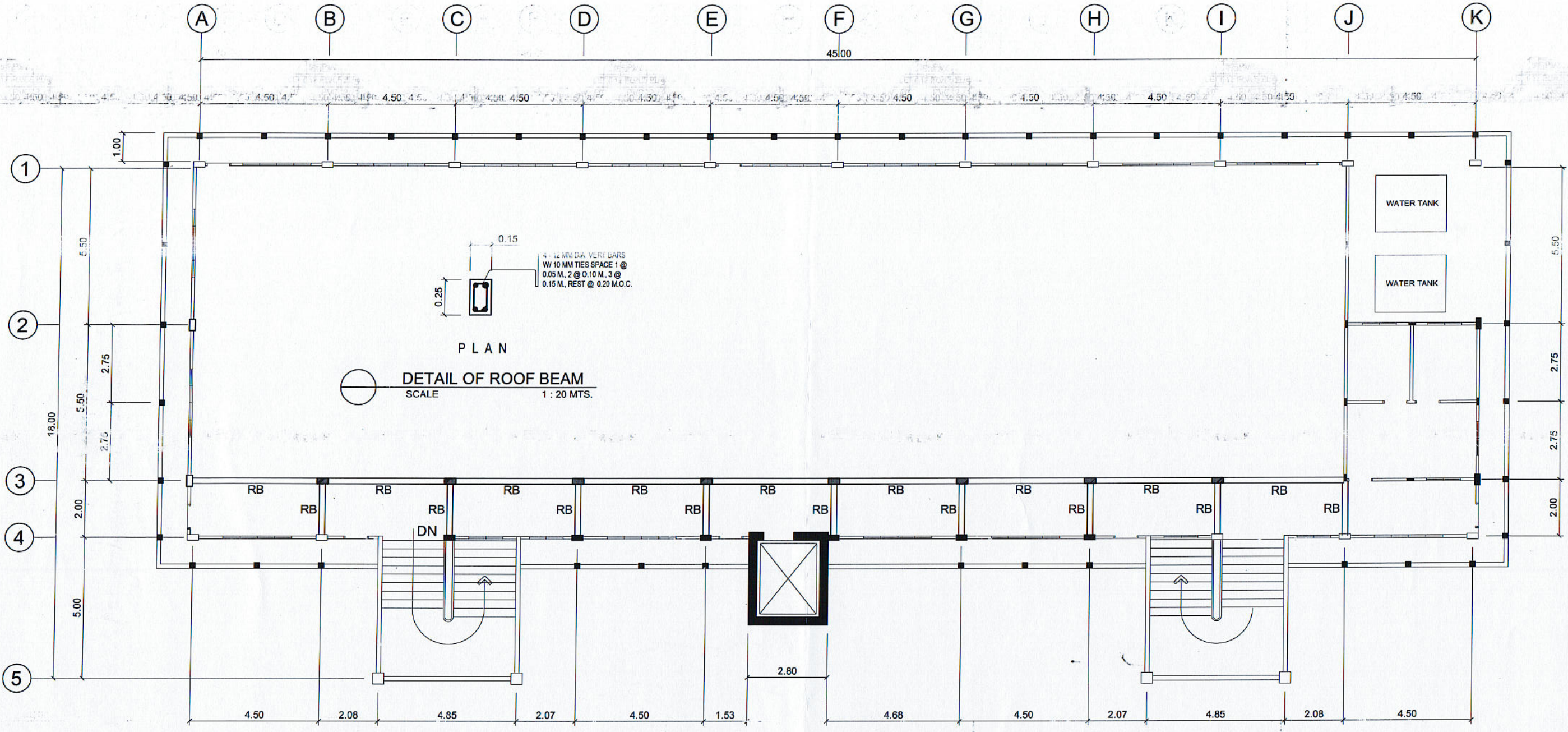
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DETAIL OF PLANTED COLUMN
SCALE 1:20 MTS.

PLAN OF PLANTED COLUMNS
SCALE 1:150 M.

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