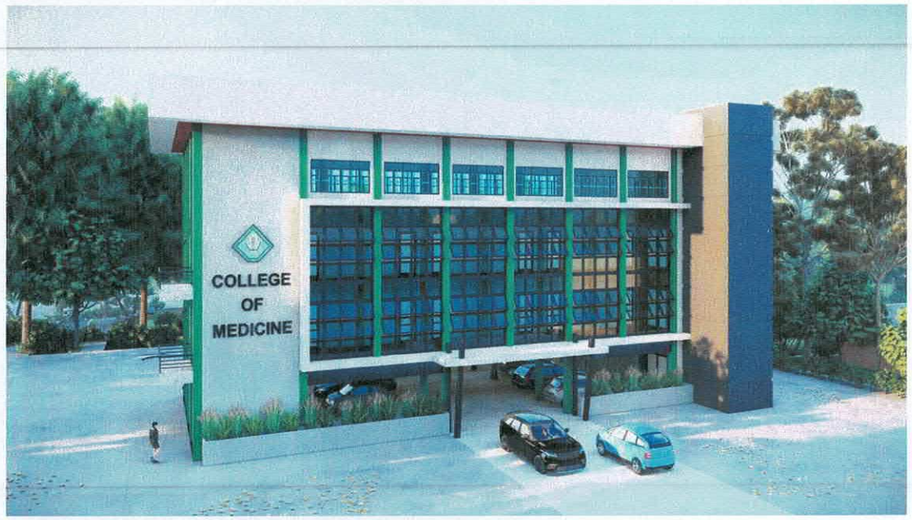
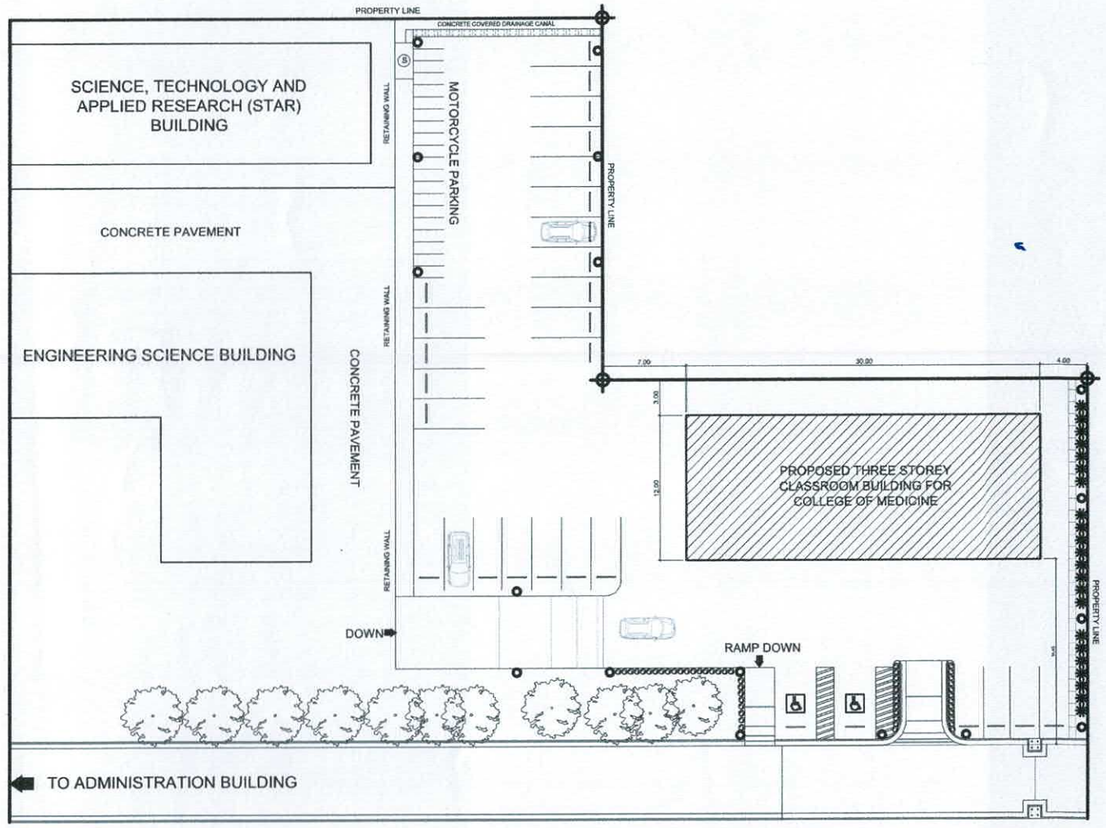


1 / A 1 — PERSPECTIVE

SCALE N. T. S.

2 / A 1 — VICINITY MAP

SCALE N. T. S.

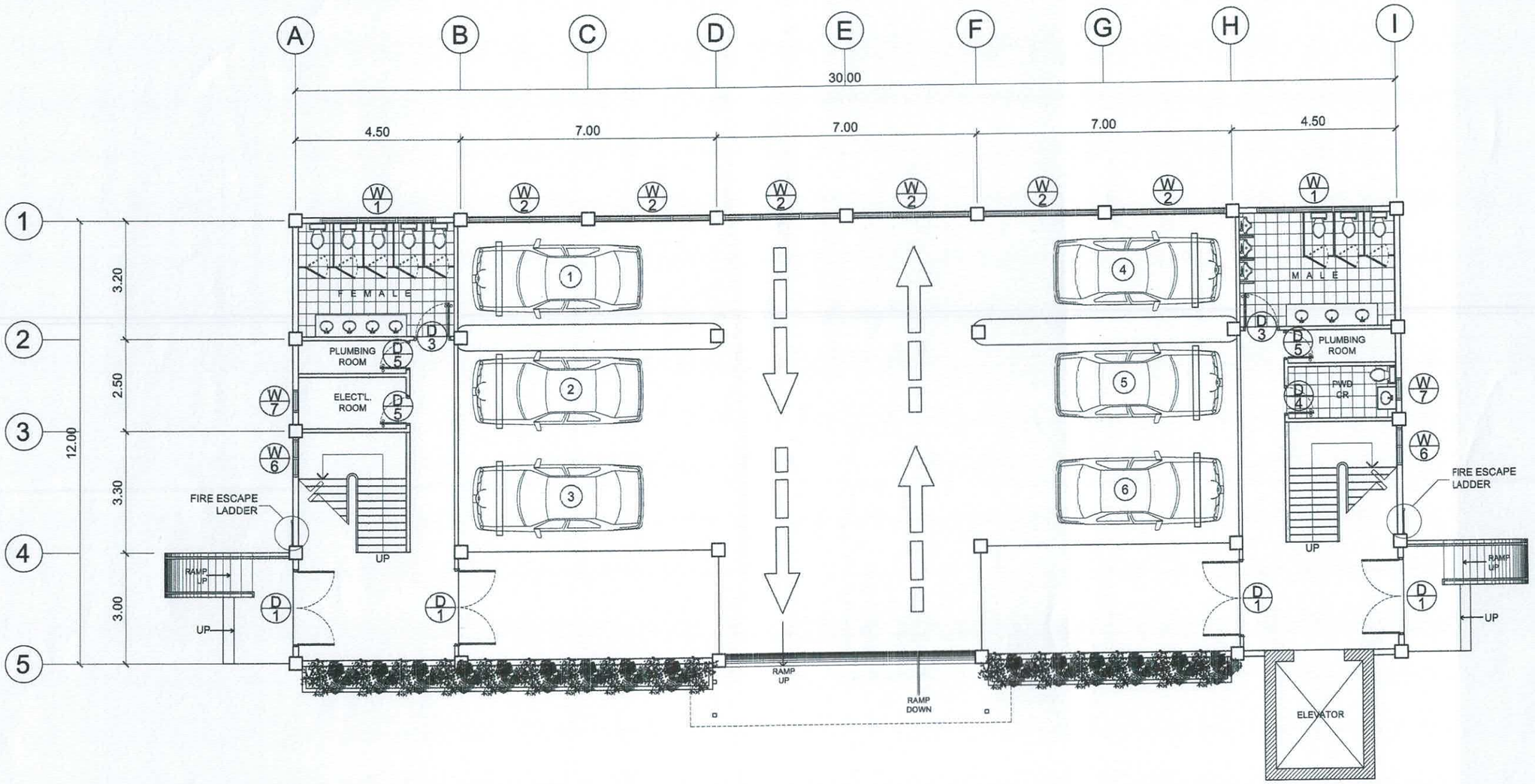


PHYSICAL PLANT SERVICES AREA

3 / A 1 — SITE DEVELOPMENT PLAN

SCALE 1 : 500 MTS.

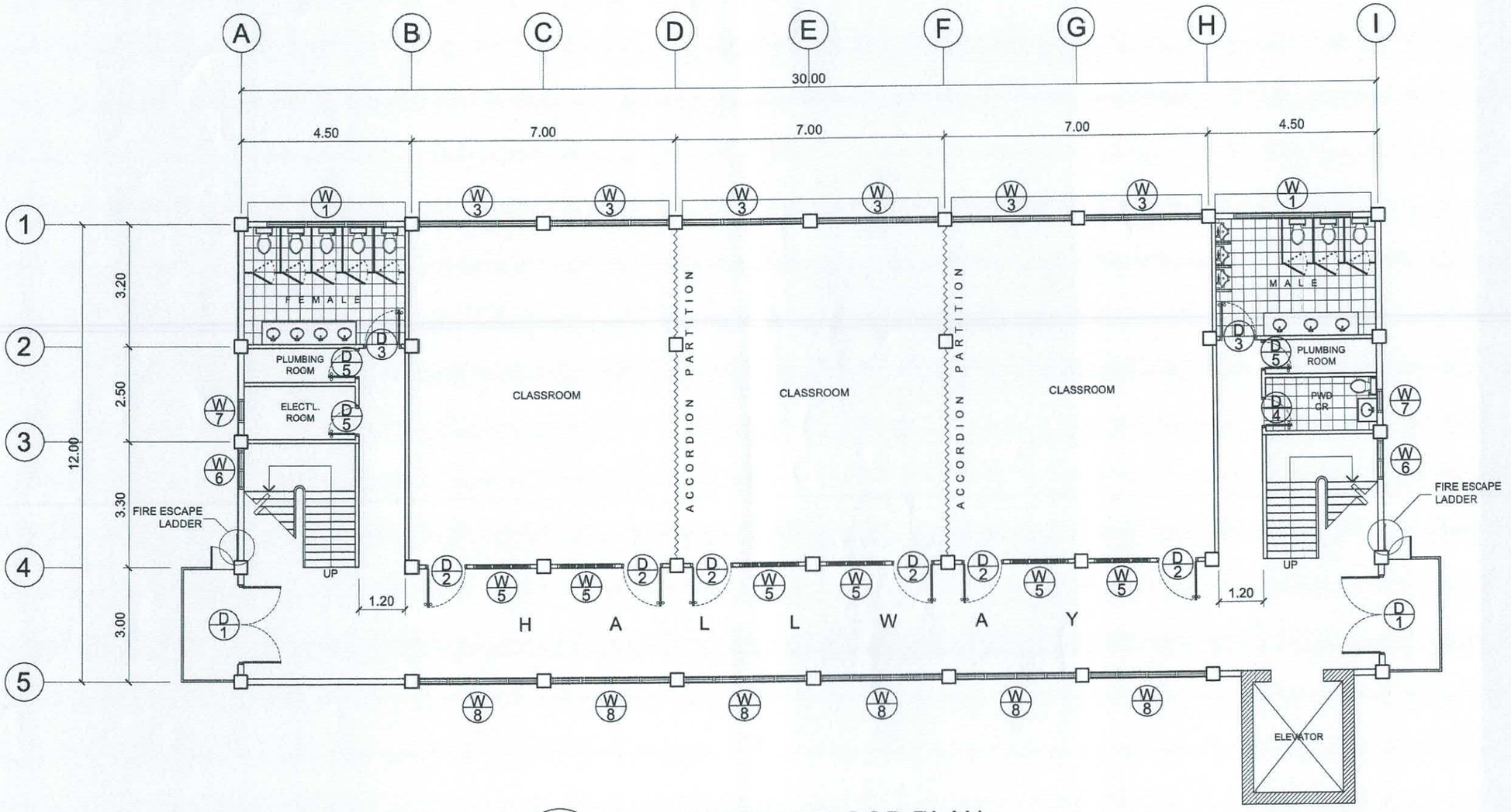
	PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	J. D. ESCANO, PDU, OVPPD	E. J. GALVEZ, DEAN, COM	E. N. RODEROS JR., ARCHITECT	S. B. BAYOT JR., HEAD, PDU	O. B. DELOS REYES, DIRECTOR, PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS, VPPD, CVSU	J. X. B. NEPOMUCENO, VPAISS, CVSU	H. D. ROBLES, PRES, CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY — CAVITE STATE UNIVERSITY, MAIN CAMPUS	CAVITE STATE UNIVERSITY	A - 1



1/A2 SCALE 1 : 125 MTS.

GROUND FLOOR PLAN

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	E. N. RODEROS JR. ARCHITECT	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEROMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	A - 2

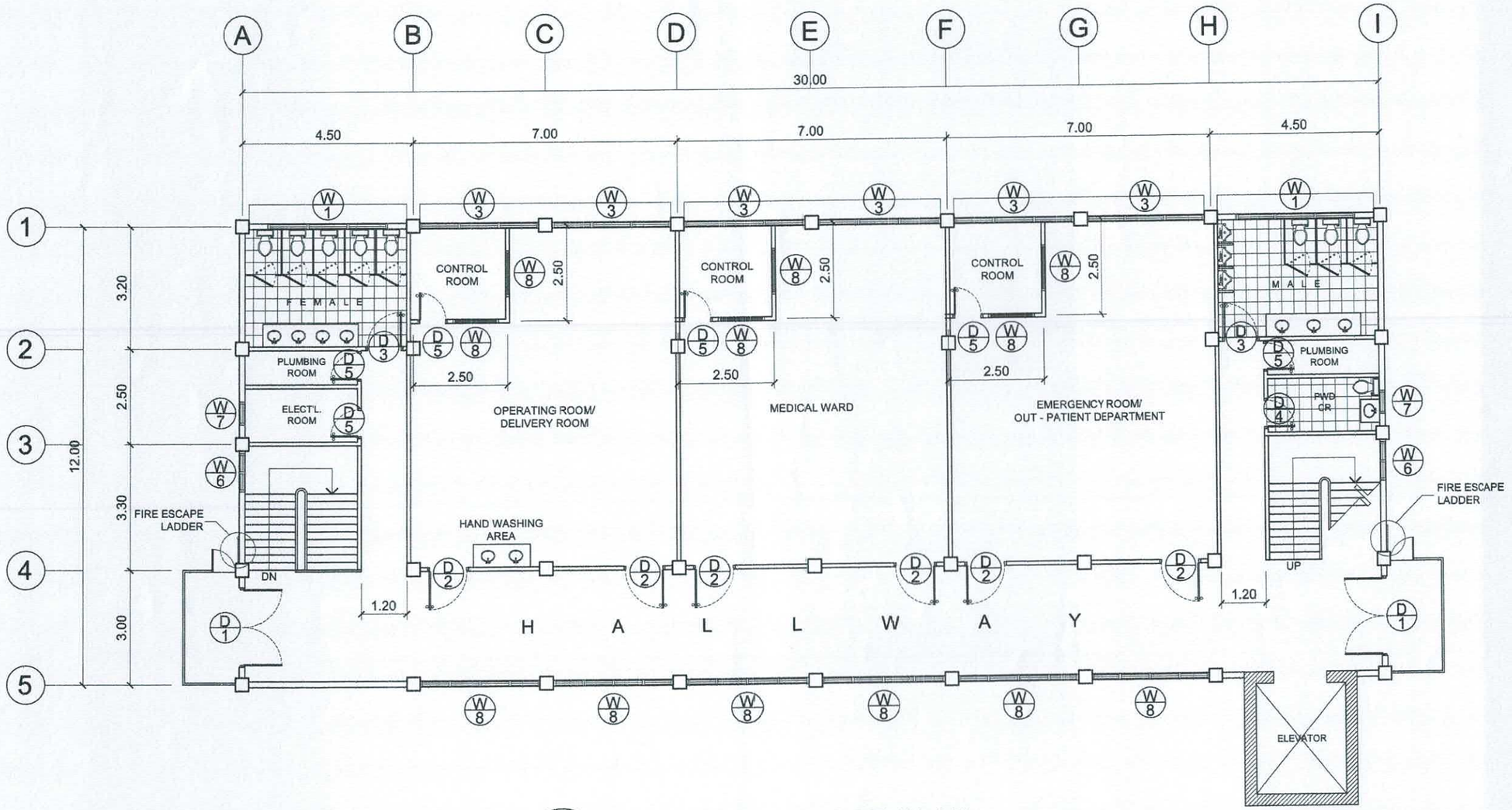


1 / A3 SCALE

SECOND FLOOR PLAN

1 : 125 MTS.

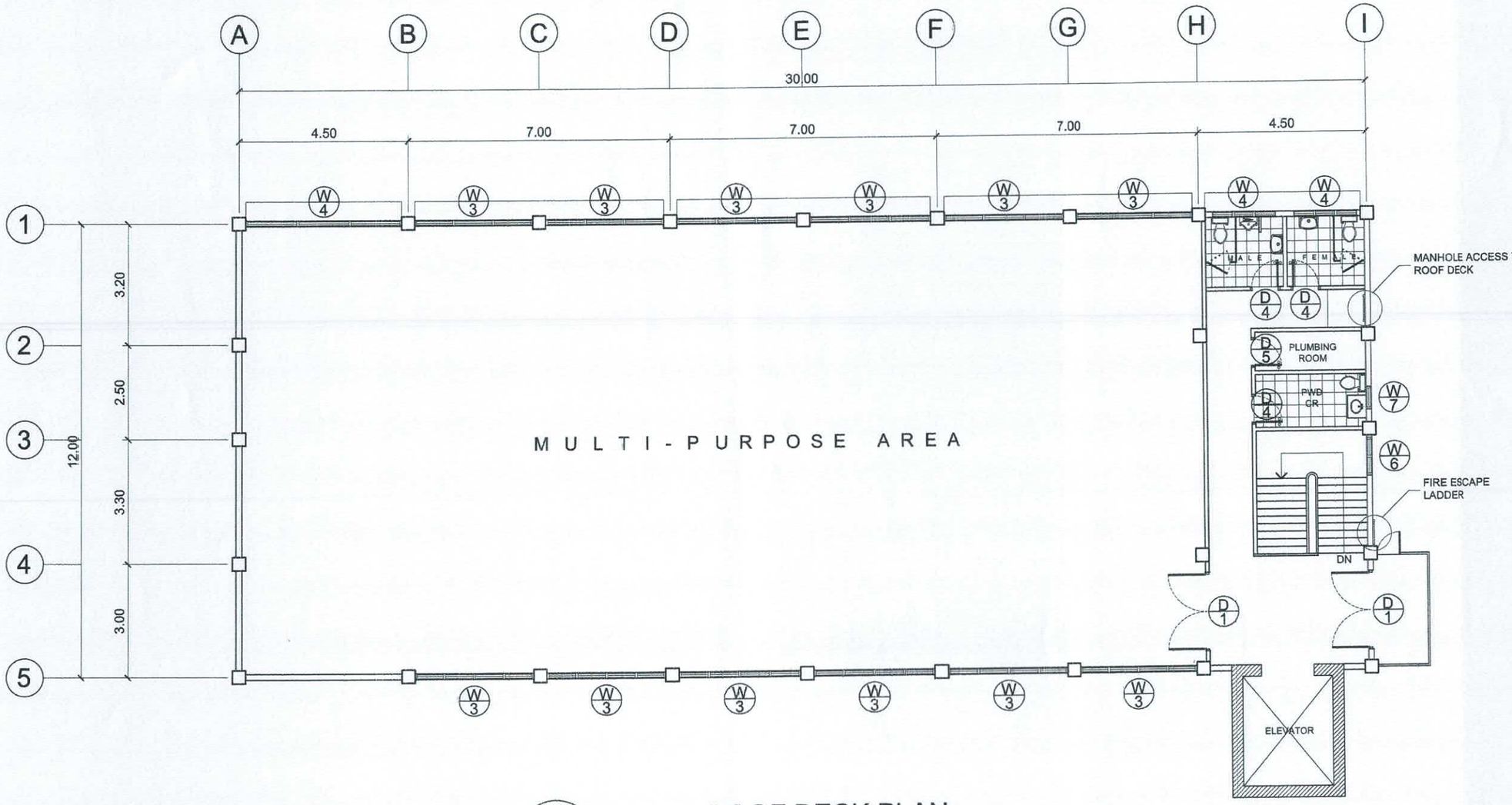
PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	E. N. RODEROS JR. ARCHITECT	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	A - 3



THIRD FLOOR PLAN

1 / A4 SCALE 1 : 125 MTS.

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	E. N. RODEROS JR. ARCHITECT	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY — CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	A - 4

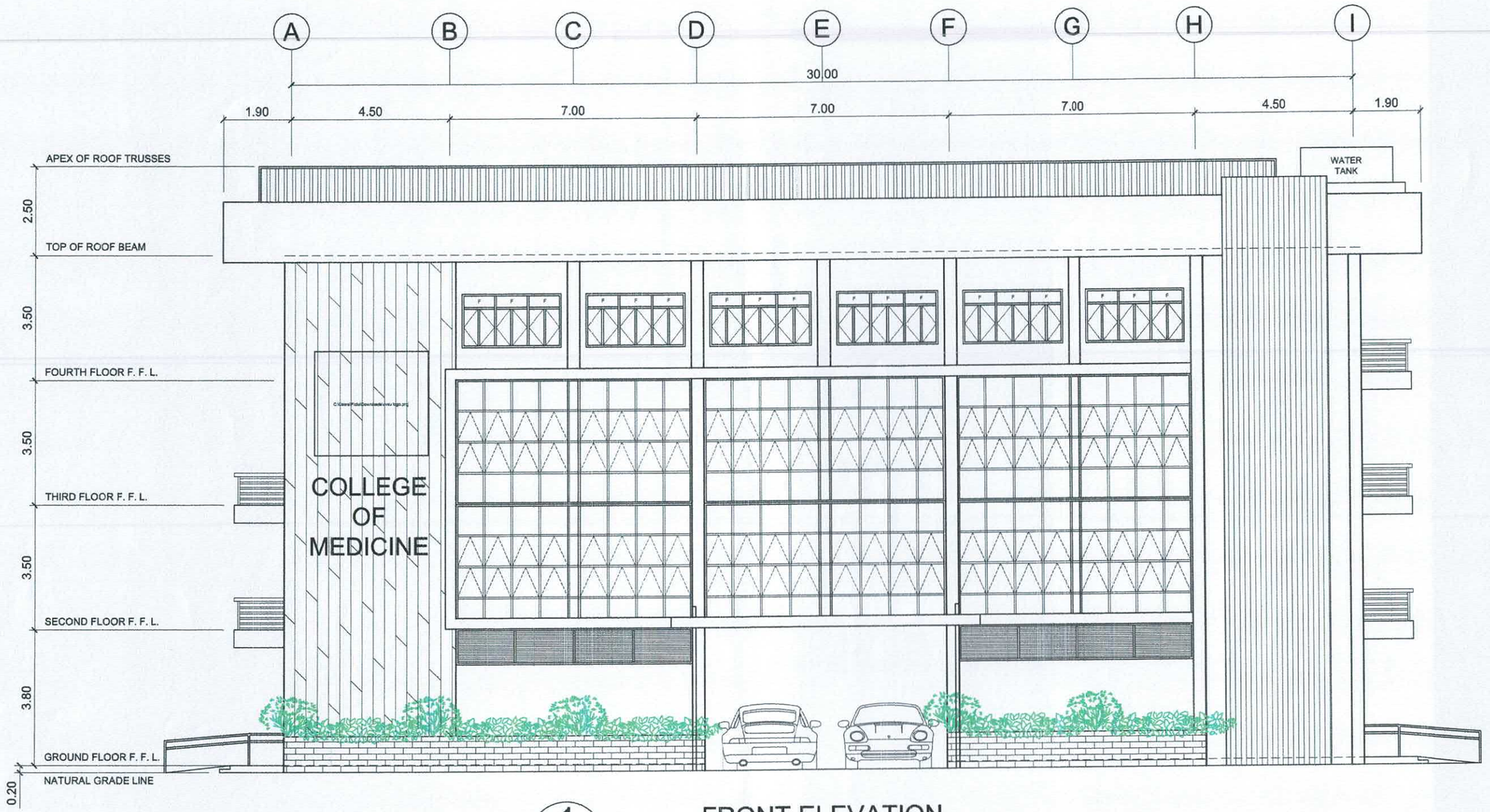


1
A 5 SCALE

ROOF DECK PLAN

1 : 125 MTS.

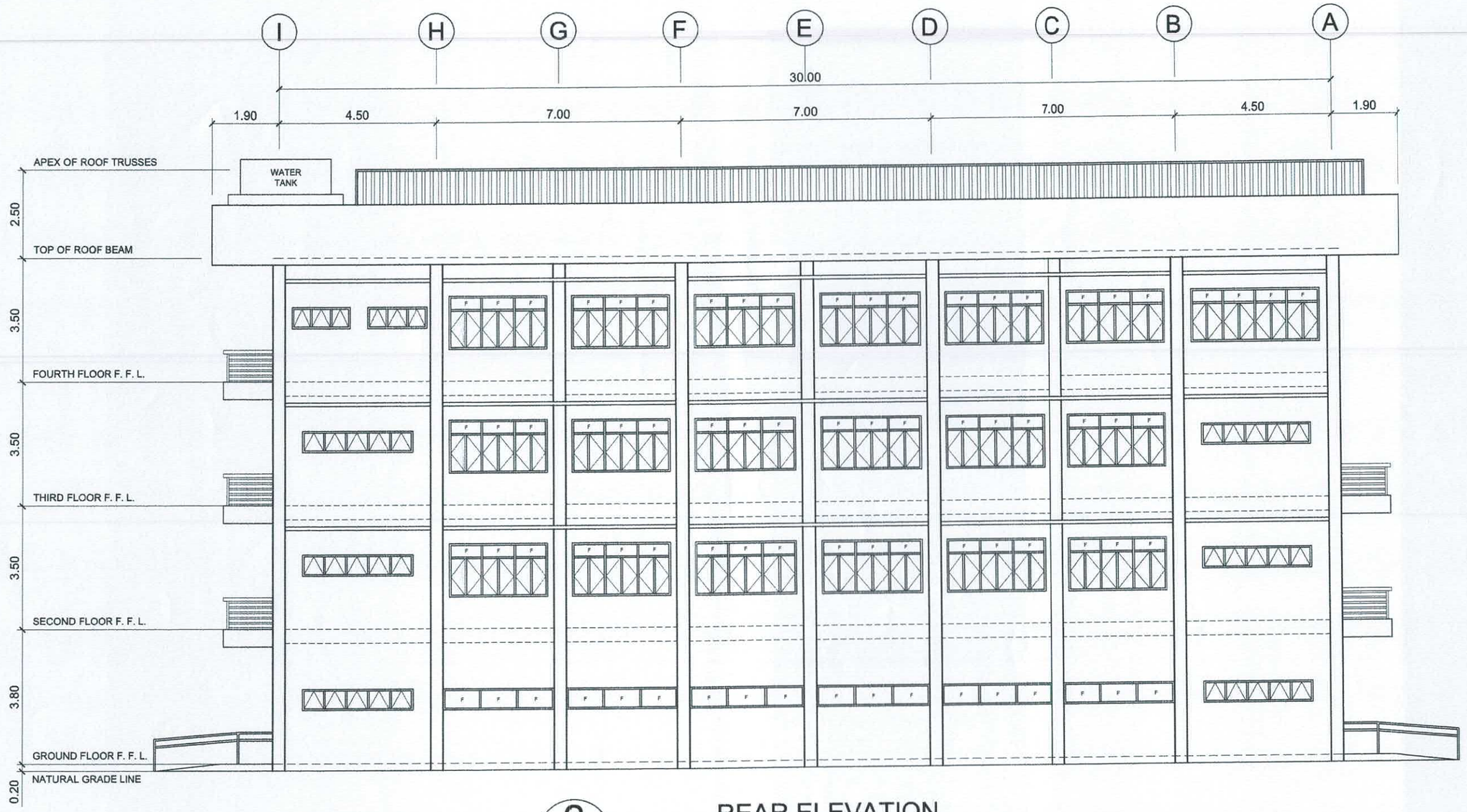
	PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	E. N. RODEROS JR. ARCHITECT	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	A - 5



1 / A6 FRONT ELEVATION

SCALE 1 : 125 MTS.

	PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	E. N. RODEROS JR. ARCHITECT	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	A - 6

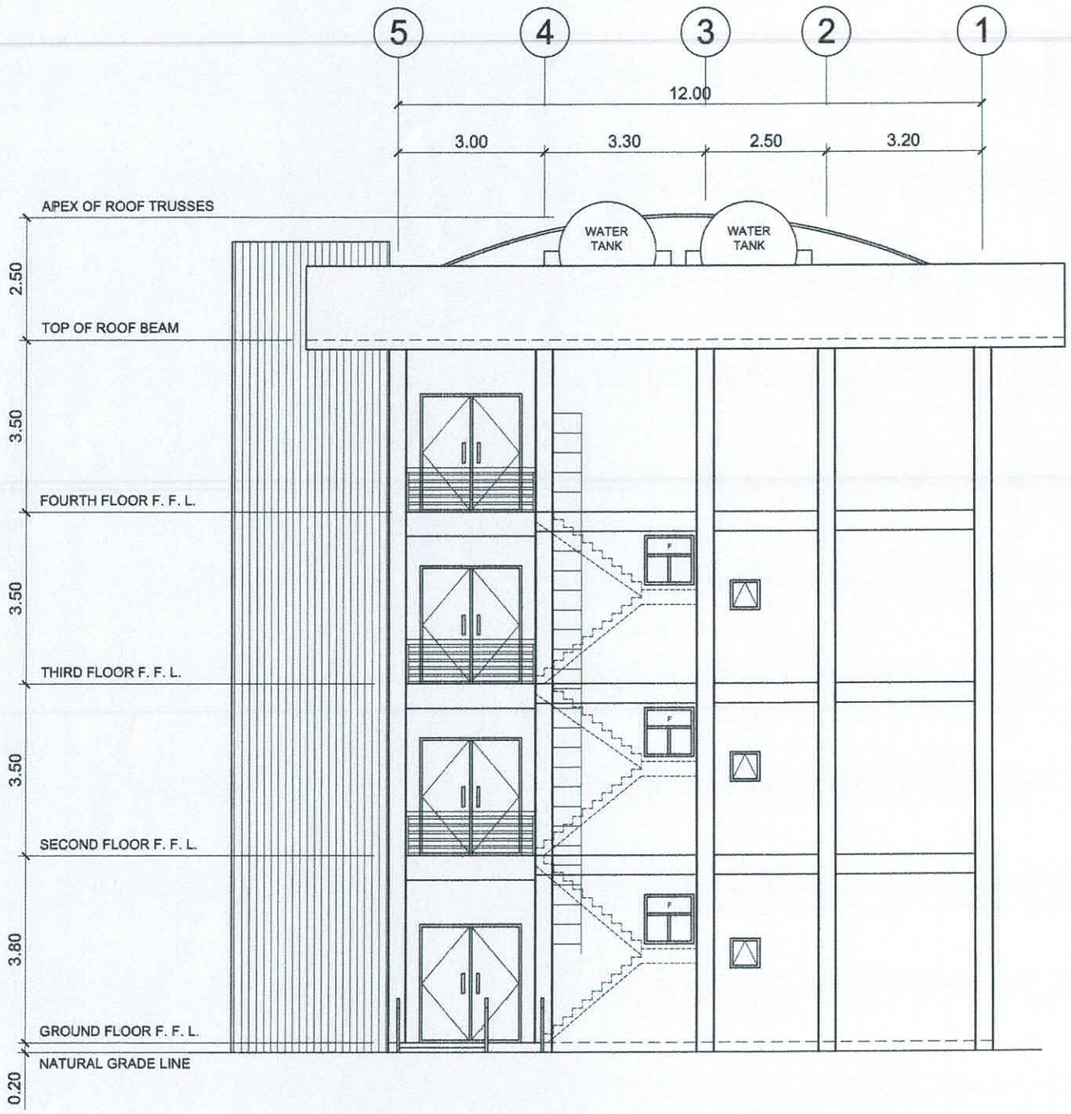


2 / A7 SCALE

REAR ELEVATION

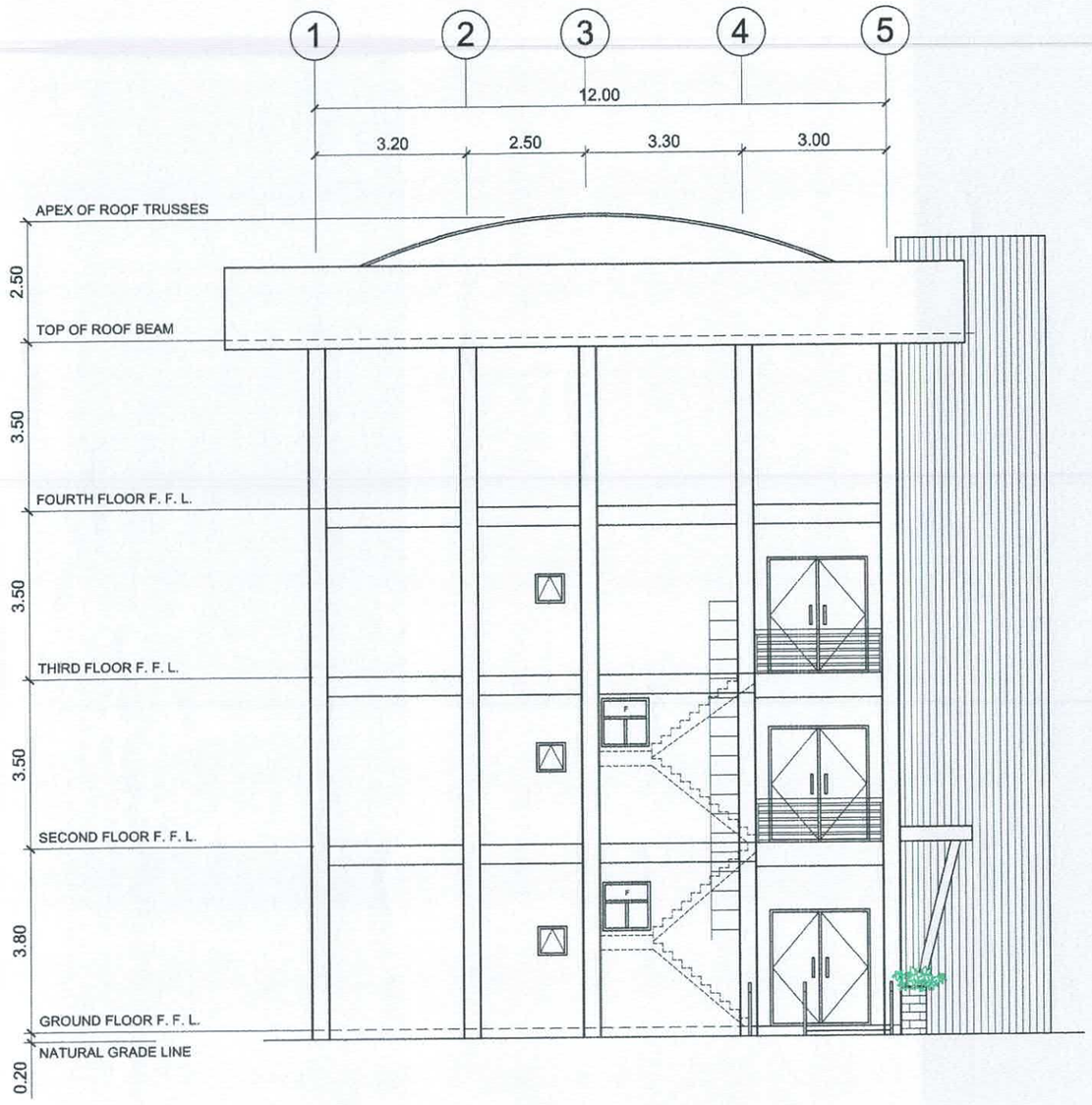
1 : 125 MTS.

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	E. N. RODEROS JR. ARCHITECT	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	A - 7



1 / A8 RIGHT SIDE ELEVATION

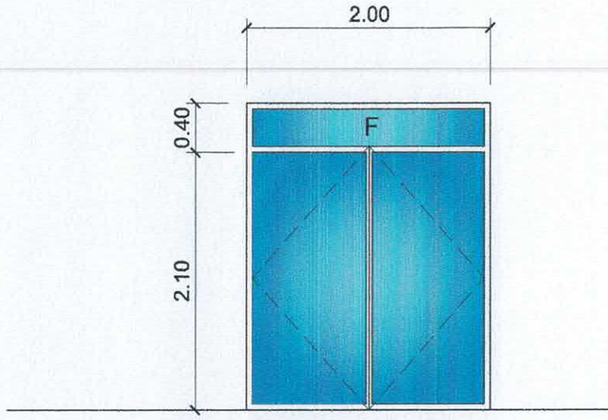
SCALE 1 : 125 MTS.



2 / A8 LEFT SIDE ELEVATION

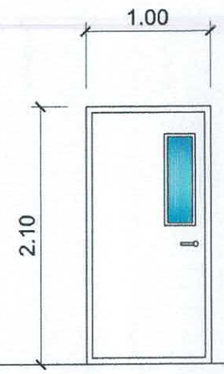
SCALE 1 : 125 MTS.

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	E. N. RODEROS JR. ARCHITECT	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	A - 8



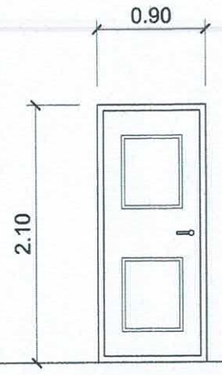
D / 1 — 2.00m x 2.50m DOUBLE SWING GLASS DOOR W/ $\frac{1}{4}$" THK. REFLECTIVE GLASS ON A WHITE POWDER COATED ALUMINUM FRAME COMPLETE W/ HEAVY DUTY ACCESSORIES AND DOOR HANDLE

TEN (10) SETS



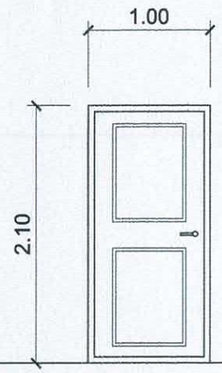
D / 2 — 1.00m x 2.10m SOLID STEEL PANEL DOOR WITH 0.20m x 0.70m x $\frac{1}{4}$" THK. CLEAR PEEPING GLASS COMPLETE WITH HEAVY DUTY ACCESSORIES, DOOR JAMB AND LEVER TYPE DOOR KNOB

TWELVE (12) SETS



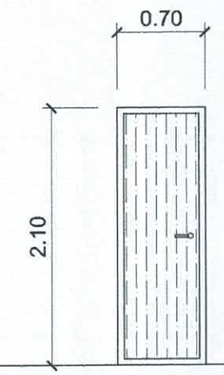
D / 3 — 0.90m x 2.10m SOLID STEEL PANEL DOOR COMPLETE WITH HEAVY DUTY ACCESSORIES, DOOR JAMB AND LEVER TYPE DOOR KNOB

SIX (6) SETS



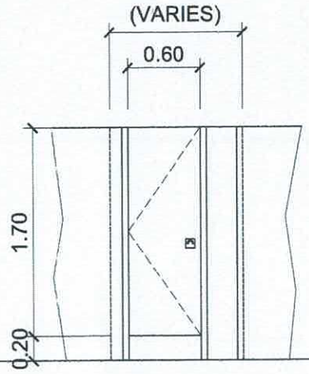
D / 4 — 1.00m x 2.10m SOLID STEEL PANEL DOOR COMPLETE WITH HEAVY DUTY ACCESSORIES, DOOR JAMB AND LEVER TYPE DOOR KNOB

SIX (6) SETS



D / 5 — 0.70m x 2.10m STEEL DOOR COMPLETE WITH HEAVY DUTY ACCESSORIES, DOOR JAMB AND LEVER TYPE DOOR KNOB

THIRTEEN (13) SETS



D / 6 — 0.60m x 2.10m PHENOLIC DOOR PANEL AND PARTITION COMPLETE WITH ALL ACCESSORIES, DOOR LOCK WITH INDICATOR

TWENTY - SIX (26) SETS

1 / A9 SCHEDULE OF DOORS

SCALE 1 : 50 MTS.

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
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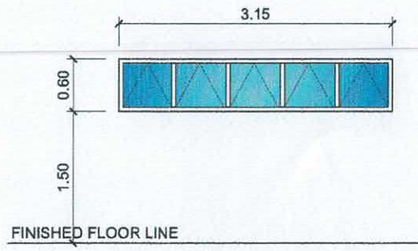
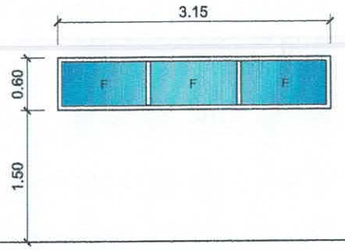
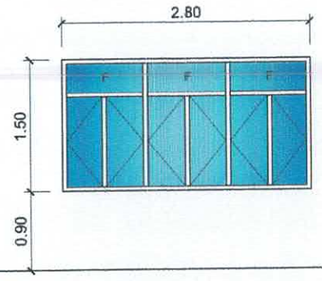


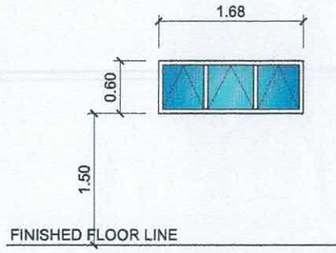
W 1 — 3.15m x 0.60m AWNING - TYPE WINDOW ON A WHITE POWDER COATED ALUMINUM FRAME WITH ¼" THK. TINTED GLASS
SIX (6) SETS



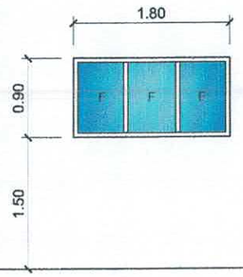
W 2 — 3.15m x 0.60m FIXED GLASS WINDOW ON A WHITE POWDER COATED ALUMINUM FRAME WITH ¼" THK. TINTED GLASS
SIX (6) SETS



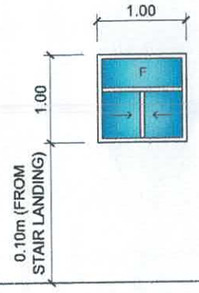
W 3 — 2.80m x 1.50m CASEMENT - TYPE WINDOW WITH FIXED GLASS ON A WHITE POWDER COATED ALUMINUM FRAME WITH ¼" THK. TINTED GLASS
TWENTY - FOUR (24) SETS



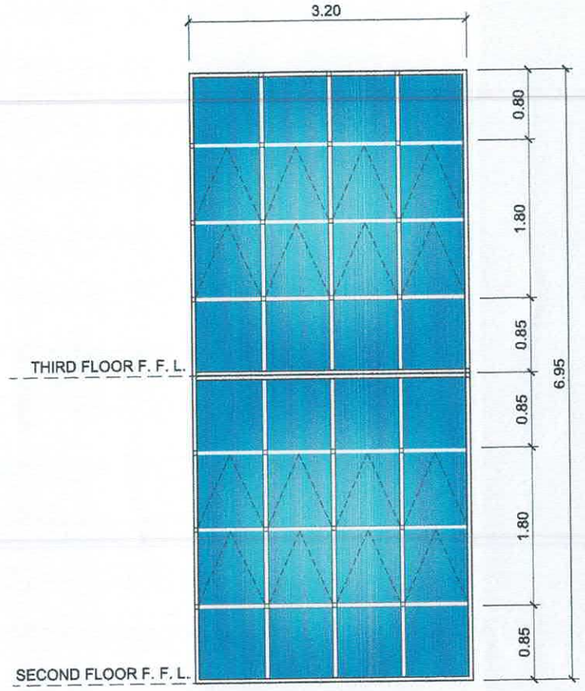
W 4 — 1.68m x 0.60m AWNING - TYPE WINDOW ON A WHITE POWDER COATED ALUMINUM FRAME WITH ¼" THK. TINTED GLASS
THREE (3) SETS



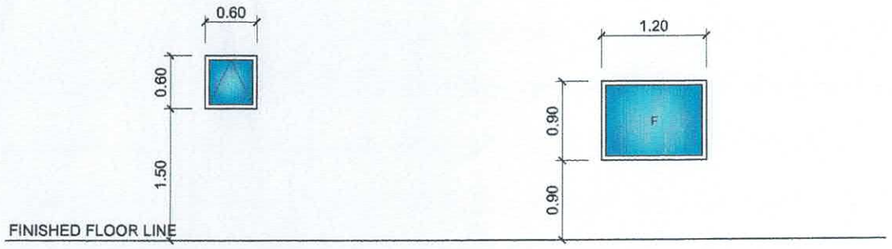
W 5 — 1.80m x 0.90m FIXED GLASS WINDOW ON A WHITE POWDER COATED ALUMINUM FRAME WITH ¼" THK. CLEAR GLASS
SIX (6) SETS



W 6 — 1.00m x 1.00m SLIDING WINDOW WITH FIXED GLASS ON A WHITE POWDER COATED ALUMINUM FRAME WITH ¼" THK. TINTED GLASS
FIVE (5) SETS

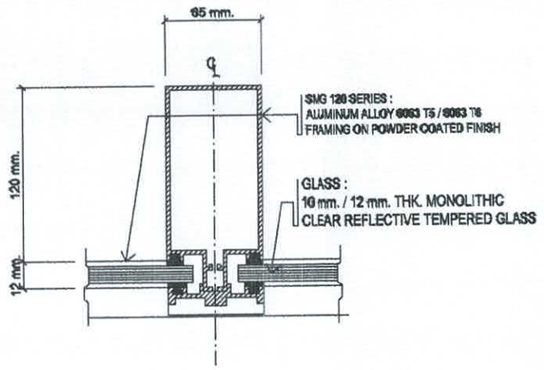


W 8 — 3.20m (W) CURTAIN WALL FIXED PANEL GLASS WINDOW WITH AWNING WINDOW IN AN ALUMINUM ALLOY FRAMING ON WHITE POWDER COAT FINISH AND MONOLITHIC CLEAR REFLECTIVE TEMPERED GLASS
SIX (6) SETS



W 7 — 0.60m x 0.60m AWNING - TYPE WINDOW ON A WHITE POWDER COATED ALUMINUM FRAME WITH ¼" THK. TINTED GLASS
SIX (6) SETS

W 8 — 1.20m x 0.90m FIXED VIEWING WINDOW ON A WHITE POWDER COATED ALUMINUM FRAME WITH ¼" THK. TINTED GLASS
SIX (6) SETS



CURTAIN WALL SPECIFICATION :
(ALUMINUM FRAMED CURTAIN WALL STICK TYPE)

SMG 120 SERIES :
ALUMINUM ALLOY 6063 T5 / 6063 T6 FRAMING ON POWDER COATED FINISH

GLASS :
10 mm. / 12 mm. THK. MONOLITHIC CLEAR REFLECTIVE TEMPERED GLASS

INCLUDING NEEDED HARDWARE & ACCESSORIES
WITH BEAM / SLAB SUPPORT AT EVERY FLOOR

2 / A 10 — DET. SECTION OF CURTAIN WALL
SCALE N. T. S.

1 / A 10 — SCHEDULE OF WINDOWS
SCALE 1 : 70 MTS.

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	E. M. RODEROS JR. ARCHITECT	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	A - 10

GENERAL:

FOLLOWING BUILDING CODE.
1. ACI 318-19
2. A152-2017
3. NSCP-2015

B. ALL DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES UNLESS OTHERWISE INDICATED
C. FOR ALL OTHER REQUIREMENTS, REFER TO ARCHITECTURAL, SANITARY, ELECTRICAL AND MECHANICAL WORKING DRAWINGS.

FOOTINGS:

1. FOOTINGS ARE DESIGNED ON NATURAL GRADE LINE WITH A MIN. BEARING CAPACITY OF 200kPa AT A DEPTH OF 2.00M BELOW THE NATURAL GRADE LINE.
2. NO FOOTING SHALL REST ON FILL.
3. MINIMUM CONCRETE PROTECTION FOR REBARS SHALL BE 0.076m. CLEAR FOR CONCRETE DEPOSITED AGAINST THE GROUND AND 0.05m. CLEAR FOR CONCRETE DEPOSITED AGAINST THE FORM WORK.

CONCRETE MIXES & PLACINGS :

1. UNLESS OTHERWISE SPECIFIED, THE MINIMUM 28 DAYS CYLINDER COMPRESSIVE STRENGTH ARE AS FOLLOWS.

FOOTINGS & BEAMS ON GRADE	24.0 MPa
COLUMNS	24.0 MPa
SLAB, BEAMS & GIRDERS	24.0 MPa
PARTITIONS, PARAPET & SHEAR WALL	24.0 MPa
BEDDED SLABS, CATCH BASINS & SIDE WALK	21.0 MPa

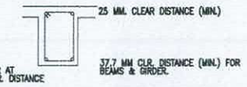
2. ALL CONCRETE MUST BE DEPOSITED, VIBRATED AND CURED IN ACCORDANCE WITH ACI STANDARD 318-89.
3. STRIPPING FORMS AND SHORES SHALL BE AS FOLLOWS:

FOUNDATIONS	1 DAY
COLUMNS & WALLS	3 DAYS
BEAMS & GIRDER	21 DAYS
SLABS	17 DAYS

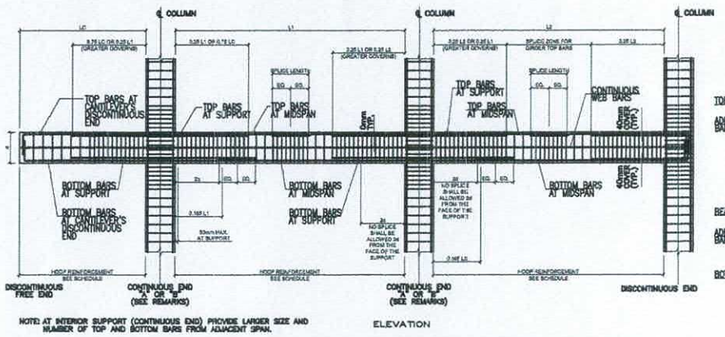
4. CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION RE-HANDLING OR FLOWING, PLACING- SHALL BE DONE PREFERABLY WITH BUGGIES BUCKETS OR WHEEL BARROWS. NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEELBARROWS, OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED 600m IN AGGREGATE LENGTH. NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATOR - UNLESS AUTHORIZE IN WRITING BY THE DESIGNERS AND ONLY FOR USUAL CONDITIONS WHERE VIBRATOR IS EXTREMELY DIFFICULT TO ACCOMPLISH.

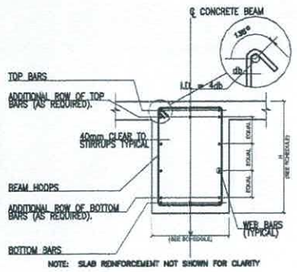
BEAMS & GIRDERS:

1. CAMBERS ALL BEAMS AND GIRDERS AT LEAST 62mm. FOR EVERY 3.00 m. OF SPAN.
2. FOR TWO OR MORE LAYERS OF REINFORCING BARS, USED SEPARATOR SPACED AT 0.914 M. O.C AND IN NO CASE SHALL BE LESS THAN TWO (2) SEPARATORS.
3. NO SPLICE SHALL BE PERMITTED ON BEAMS AND GIRDERS WHERE CRITICAL BENDING STRESSES OCCUR TENSION SPLICE SUPERMITTED SHALL BE 48 DIAMETER FOR PLAIN BARS AND 24 DIAMETER FOR DEFORMED BARS, COMPRESSION SPLICE SHALL BE 40 DIA. FOR PLAIN BARS FOR PLAIN BARS AND 20 DIA. FOR DEFORMED BARS LAP SPLICES SHALL BE WIRED TOGETHER SPLICE TOP BARS AT MID SPAN BOTTOM BARS AT SUPPORT BENT BARS AT BEND POINTS IN SUPERSTRUCTURE WELDED SPLICES SHALL BE DEVELOPED INTENSION AT LEAST 125 # OF THE SPECIFIED YIELD STRENGTH OF THE BAR NOT MORE THAN 50 % OF THE BARS AT ANY ONE SECTION SHALL BE PERMITTED TO BE SPLICED.
4. IF BEAM REINFORCING BARS END IN A WALL THE CLEAR DISTANCE FROM THE BAR TO THE FURTHER FACE OF THE WALL SHALL NOT BE LESS THAN 0.051m EMBEDMENT LENGTH SHALL BE 40. DIA FOR TENSION AND 20 DIA. COMPRESSION BARS.
5. MINIMUM CONCRETE PROTECTION REINFORCING BARS OR SHAPE SHALL BE AS SHOWN



6. UNLESS OTHERWISE NOTED IN PLANS OR SPECIFICATIONS, CAMBER ALL BEAMS AND GIRDERS AT LEAST 62 mm FOR EVERY 3.00m OF SPAN EXCEPT CANTILEVERS FOR WHICH THE CAMBERS SHALL BE AS NOTED IN THE PLANS OR ORDERED THE DESIGNER, BUT IN NO CASE LESS THAN 8.7mm. FOR EVERY 3.00M OF FREE SPAN.

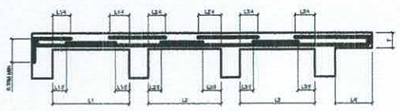




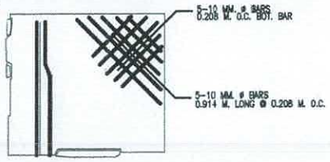
TYPICAL REINFORCED CONCRETE BEAM DETAIL

CONCRETE SLABS:

1. ALL REINFORCEMENT SHALL BE 0.019m CLEAR MINIMUM FROM TOP AND BOTTOM OF SLAB.
2. FOR TWO- WAY SLAB BARS ALONG SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONGER SPAN AT CENTER AND OVER THE LONGER SPAN BARS NEAR THE SUPPORT UNLESS OTHERWISE INDICATED OR SHOWN IN DETAILS THE SPACING OF THE BARS AT THE COLUMN STRIPS CAN BE APPROXIMATELY 1-1/3 OF THE MIDDLE STRIPS BUT IN NO CASE GREATER THAN 2-1/3 TIMES THE SLAB THICK.
3. UNLESS OTHERWISE SHOWN IN DETAIL FOR ONE WAY SLAB, REINFORCING BARS SHALL BE BEND, EXTENDED OR CUT AS FOLLOWS. NO CASE LESS THAN 6.7mm. FOR EVERY 3.00M. OF FREE SPAN.



4. TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE TENSION FACE AND SHALL NOT BE LESS THAN 25MIN. BOTTOM.
5. UNLESS OTHERWISE NOTED, ALL BEDDED SLAB SHALL BE REINFORCED WITH 010 BAR AT 0.25M.O.C.E.W AT CENTER OF SLAB CONSTRUCTION JOINTS FOR SLAB SHALL NOT BE MORE THAN 3.00M APART.
6. PROVIDE EXTRA REINFORCEMENT AT CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGE) AS SHOWN BELOW.



7. PROVIDE SUPPLEMENTARY REINFORCEMENT AS SMALL UNFRAMED OPENING IN FLOOR SLAB AS SHOWN BELOW

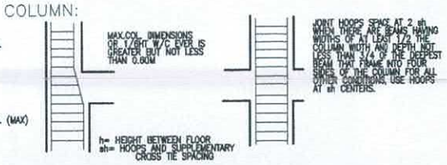
CONCRETE HOLLOW BLOCKS:

REINFORCEMENT AS TABULATED BELOW SHALL BE PROVIDED UNLESS OTHERWISE SPECIFIED IN THE PLAN

CONCRETE HOLLOW BLOCKS REINFORCEMENT

BLOCK THK.	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
0.76 M	ø 10 AT 0.60 M	ø 10 AT 0.60 M	A. MIN.SPLICE AT L/d=0.25M B. PROVIDE 90DEG. ANGLE REINFORCEMENT AT CORNER 0.184M. LONG C. WHERE CHB WALLS ADJOINING COL. R.C.BEAMS/ WALL DOWELS W./ SAME SPEC AS VERT. OR HOR. REINF. SHALL BE PROVIDED
0.100 M	ø 10 AT 0.60 M	ø 10 AT 0.60 M	
0.150 M	ø 10 AT 0.60 M	ø 10 AT 0.60 M	
0.200 M	ø 12 AT 0.60 M	ø 10 AT 0.60 M	

CONCRETE COLUMN:



COLUMN TIES SHALL BE PROTECTED EVERY WHERE BY A COVERING OF CONCRETE CAST MONOLITHIC ALLY WITH THE CORE OF MAXIMUM THICKNESS OF 0.0127m. AND NOT LESS THAN 1/2 TIMES MAXIMUM SIZE OF COARSE AGGREGATE. WHERE COLUMNS CHANGE IN SIZE , VERTICAL REINFORCEMENT SHALL BE OFF-SET AT A SLOPE OF NOT MORE THAN 25mm. AND EXTRA 12mmø AT 76mm. O.C. SHALL BE PROVIDED THROUGHOUT THE OFF-SET REGION.

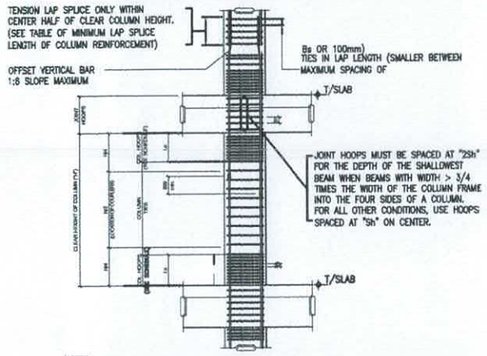
MILD STEEL REINFORCEMENT:

1. ALL MILD STEEL REINFORCEMENT SHALL CONFORM TO ASTM A-15-62-21 AND DEFORMATIONS TO A 305- 56T OR LATEST REVISIONS.
2. DEVELOPMENT LENGTH FOR ALL BARS SHALL BE A MINIMUM OF 40 BARS DIA. UNLESS OTHERWISE SPECIFIED.

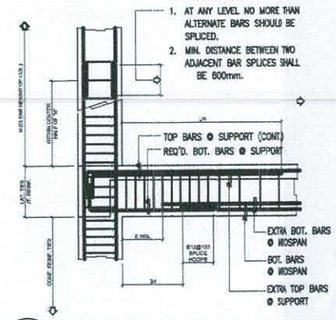
STRUCTURAL STEEL:

BAR ≤ ø12 : Fy= 225 MPa
BAR≥ ø16 : Fy= 275 MPa

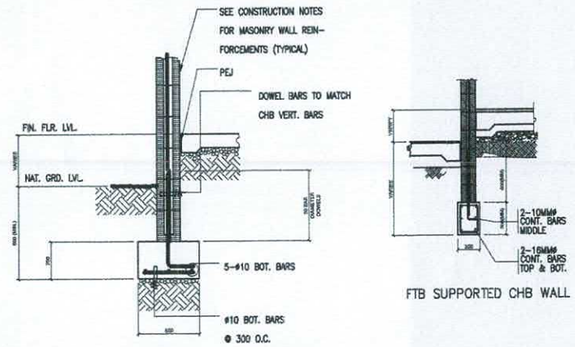
1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 Fy= 36,000 PSI
2. WELDING SHALL CONFORM TO AWS STANDARDS .
3. FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BY THE ENGINEER AND THE OWNER PRIOR TO FABRICATION.



NOTES:
Sh = HOOP AND SUPPLEMENTARY CROSSTIE SPACING NOT TO EXCEED 8s/4 OR 100m.
St = COLUMN TIE SPACING, NOT TO EXCEED 16db OF VERTICALS, 48db OF TIES, 8s OR 150mm, WHICHEVER IS LESSER.
8s = SMALLER DIMENSION OF COLUMN CROSS SECTION.
Lo = LARGEST COLUMN DIMENSION, 1/6 OF CLEAR HEIGHT OR 450mm, WHICHEVER IS GREATER.
H = CLEAR HEIGHT OF COLUMN.

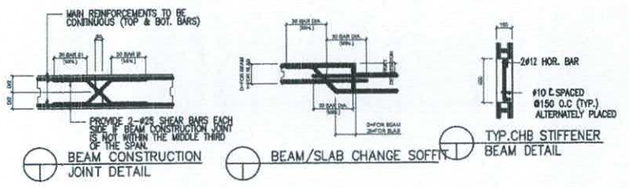


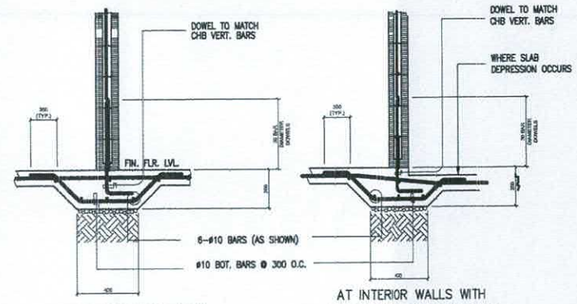
COLUMN LAP SPLICE AND EXT. BEAM TO COLUMN CONN. DETAIL



AT EDGE/ PERIMETER CHB WALLS (WF3)

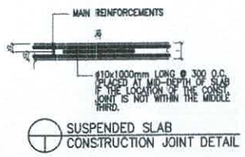
FTB SUPPORTED CHB WALL

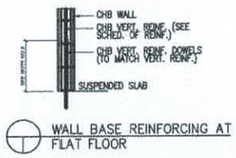


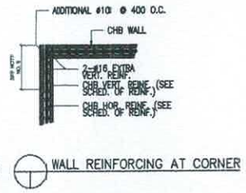


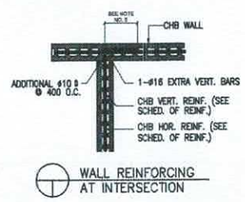
AT INTERIOR CHB WALLS (WF2)

AT INTERIOR WALLS WITH SLAB ELEVATION DIFFERENCE (WF1)









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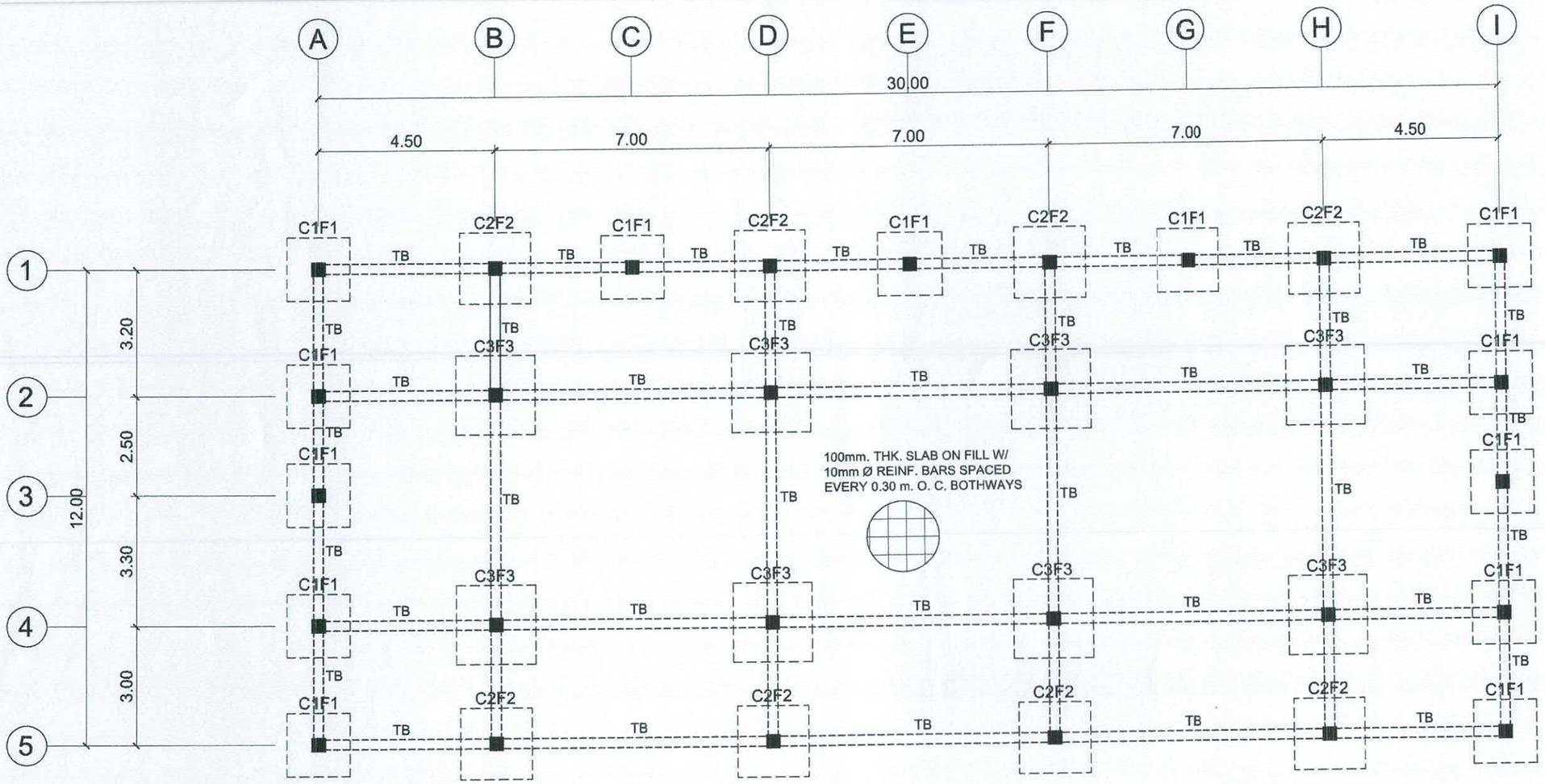

1/S2 FOUNDATION PLAN

SCALE 1 : 125 MTS.

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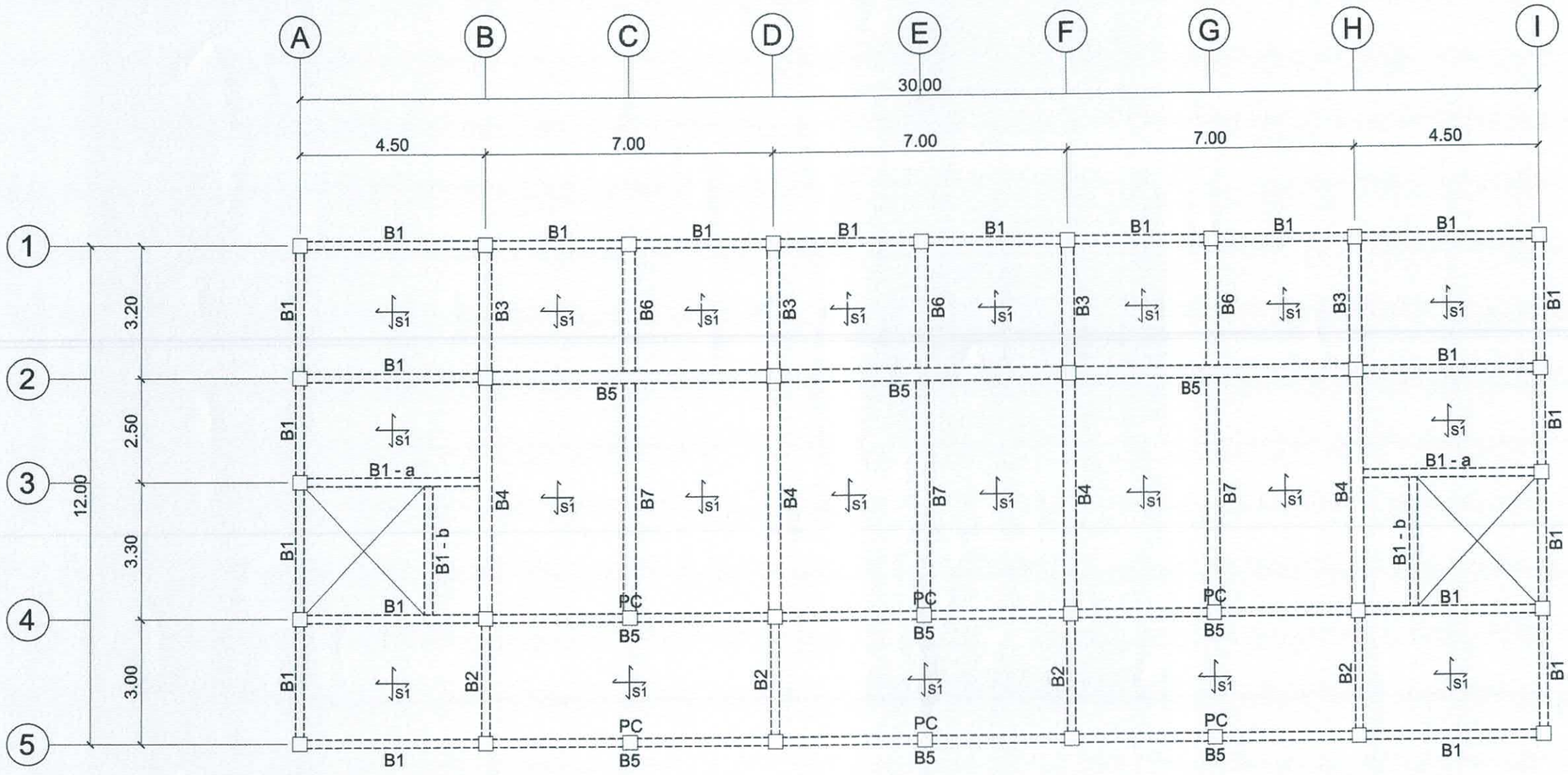

TYP. 2ND - 3RD FLR. BEAM FRAMING PLAN

1 / S3

SCALE 1 : 125 MTS.

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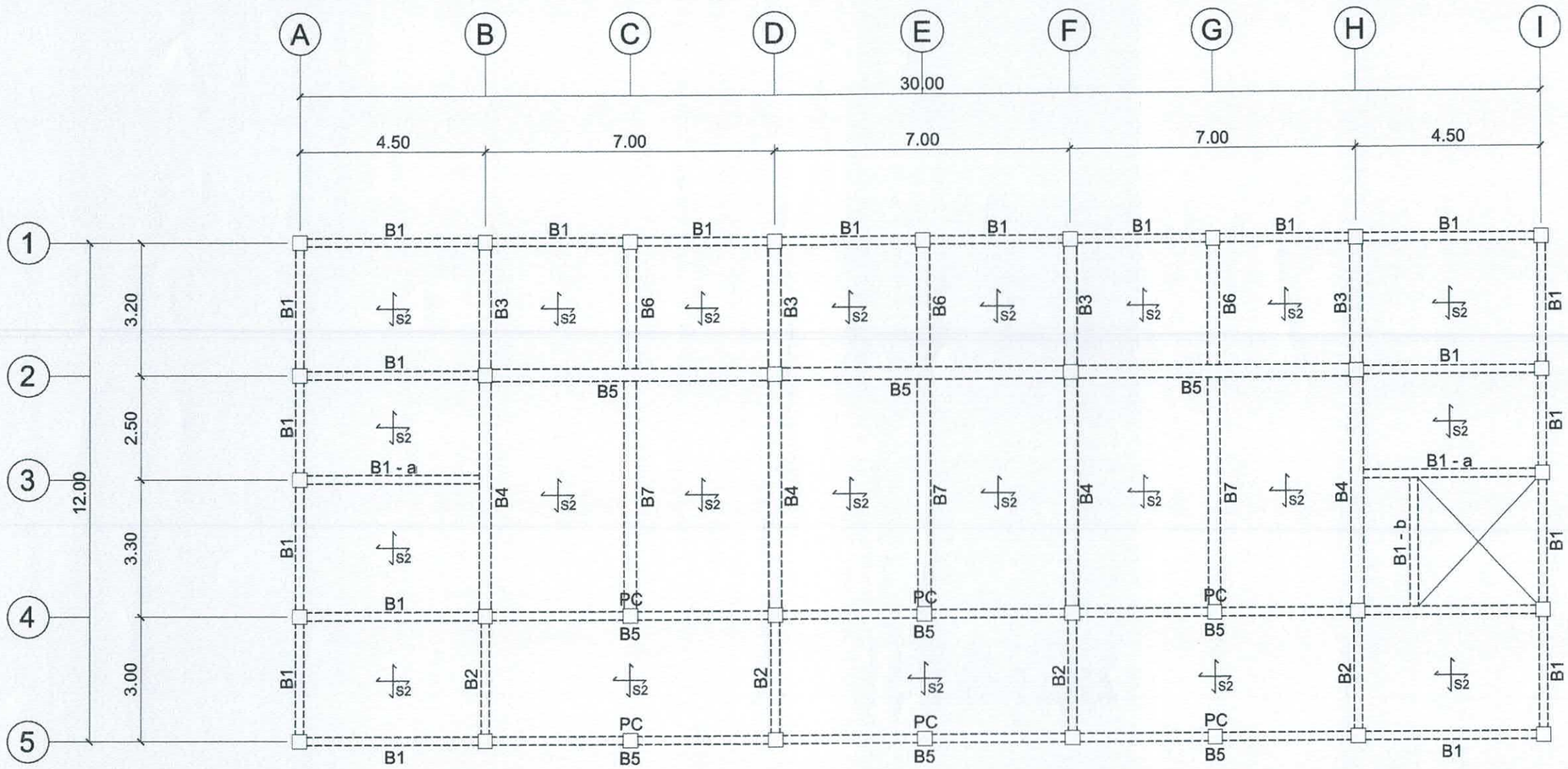

ROOF DECK BEAM FRAMING PLAN

1 / S4

SCALE 1 : 125 MTS.

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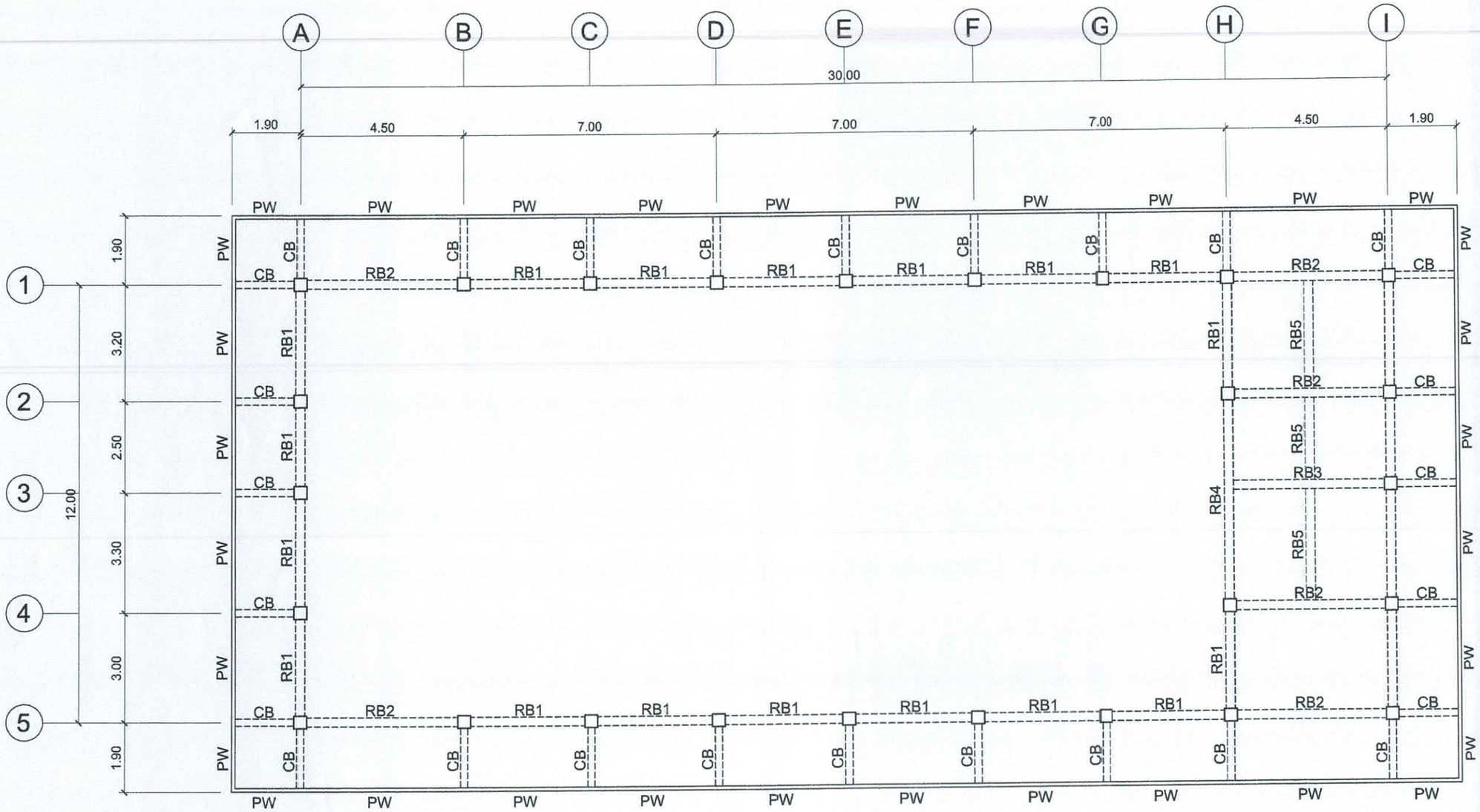

ROOF BEAM FRAMING PLAN

1 / S 5 SCALE 1 : 125 MTS.

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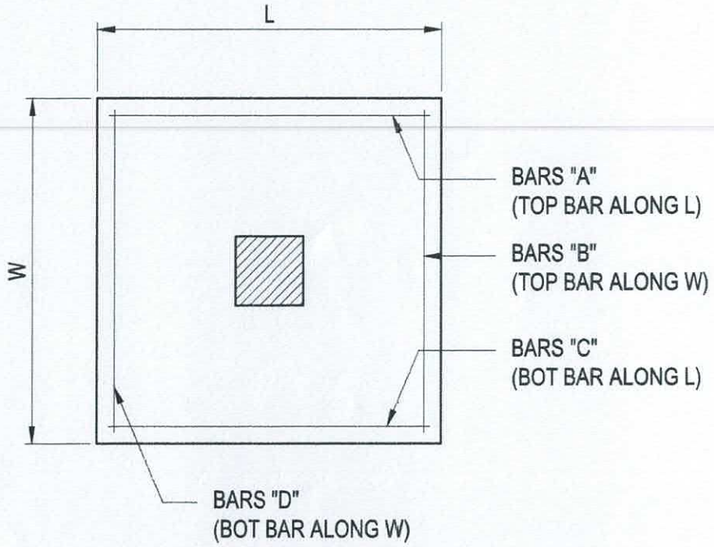
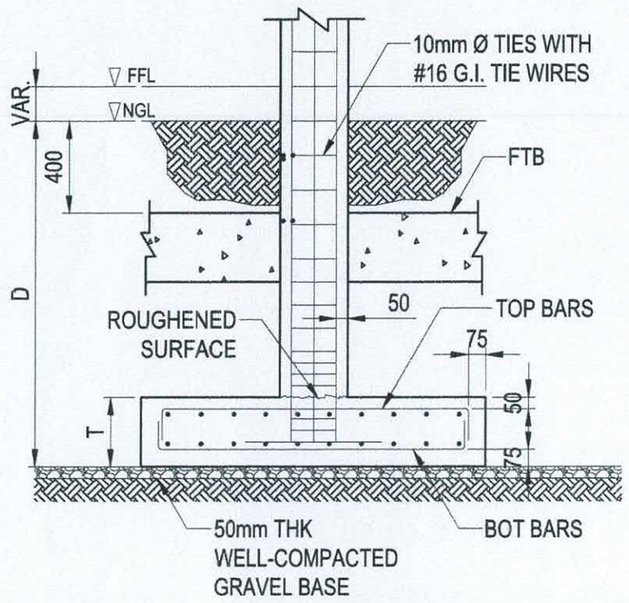


PLAN

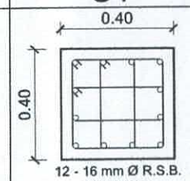
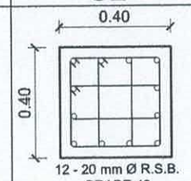
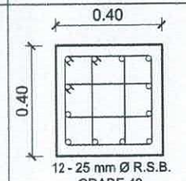
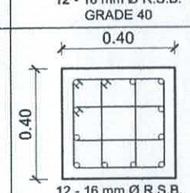
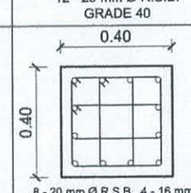
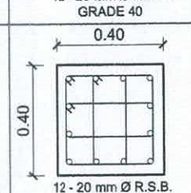
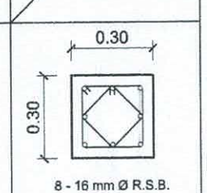
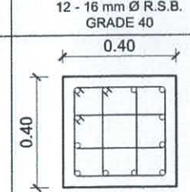
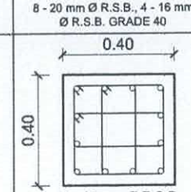
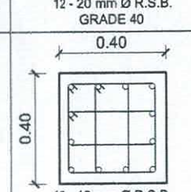
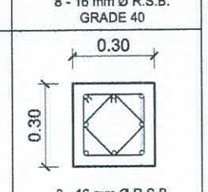


SECTION

SCHEDULE OF FOOTING

MARK	D (DEPTH) (mm)	T (THICKNESS) (mm)	L (LENGTH) (mm)	W (WIDTH) (mm)	REINFORCEMENT				REMARKS
					TOP		BOTTOM		
					"A"	"B"	"C"	"D"	
F1	2000	300	1600	1600	—	—	10 - 16 mm Ø	10 - 16 mm Ø	
F2	2000	300	1800	1800	—	—	12 - 16 mm Ø	12 - 16 mm Ø	
F3	2000	400	2000	2000	—	—	14 - 16 mm Ø	14 - 16 mm Ø	

SCHEDULE OF COLUMNS

LEVEL	C1	C2	C3	PC	LATERAL TIES
FOOTING TO SECOND FLOOR	 0.40 × 0.40, 12 - 16 mm Ø R.S.B. GRADE 40	 0.40 × 0.40, 12 - 20 mm Ø R.S.B. GRADE 40	 0.40 × 0.40, 12 - 25 mm Ø R.S.B. GRADE 40		
SECOND FLOOR TO ROOF DECK	 0.40 × 0.40, 12 - 16 mm Ø R.S.B. GRADE 40	 0.40 × 0.40, 8 - 20 mm Ø R.S.B., 4 - 16 mm Ø R.S.B. GRADE 40	 0.40 × 0.40, 12 - 20 mm Ø R.S.B. GRADE 40	 0.30 × 0.30, 8 - 16 mm Ø R.S.B. GRADE 40	10mm Ø R. S. B. TIES @ 2-50mm, 4-75mm, 6-100mm, REST @ 200mm O.C.
ROOF DECK TO TOP OF ROOF BEAM	 0.40 × 0.40, 12 - 16 mm Ø R.S.B. GRADE 40	 0.40 × 0.40, 12 - 16 mm Ø R.S.B. GRADE 40	 0.40 × 0.40, 12 - 16 mm Ø R.S.B. GRADE 40	 0.30 × 0.30, 8 - 16 mm Ø R.S.B. GRADE 40	

1 / S 6 SCH. OF COLUMN AND COLUMN FOOTING

SCALE N. T. S.

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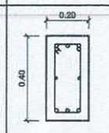
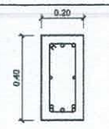
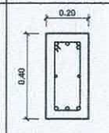
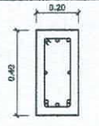
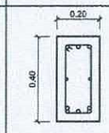
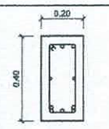
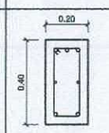
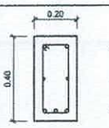
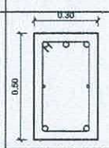
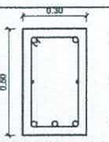
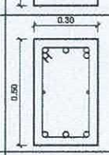
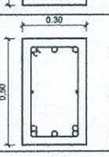
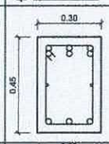
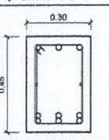
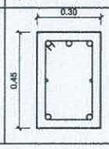
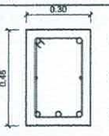
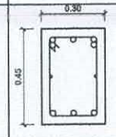
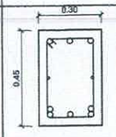
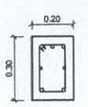
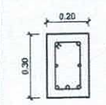
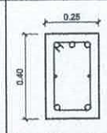
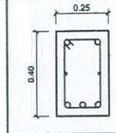
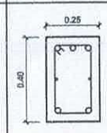
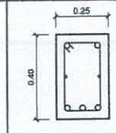
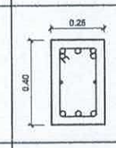
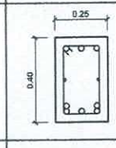
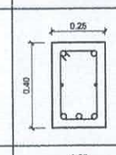
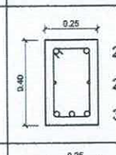
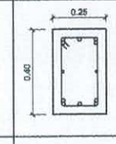
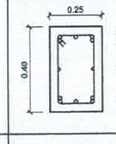
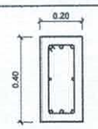
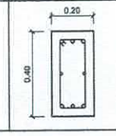
SCHEDULE OF BEAMS

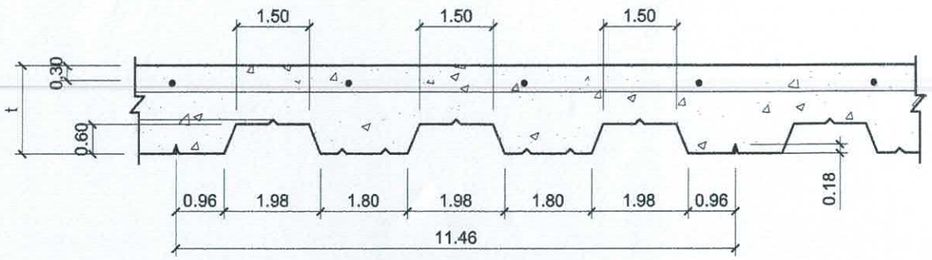
SECTION	END - SECT. BARS	MID - SECT. BARS	SPACING OF STIRRUPS
B - 1	 5 - 16 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 3 - 16 mm Ø D.R.B.	 3 - 16 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 5 - 16 mm Ø D.R.B.	10 mm. Ø STIRRUPS 4 - 50mm, 6 - 75mm, 6 -100mm REST @ 200mm O.C.
B1 - a	 5 - 16 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 3 - 16 mm Ø D.R.B.	 FREE END 3 - 16 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 5 - 16 mm Ø D.R.B.	-DO-
B1 - b	 FREE END 3 - 16 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 5 - 16 mm Ø D.R.B.	 FREE END 3 - 16 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 5 - 16 mm Ø D.R.B.	-DO-
B - 2	 3 - 16 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 2 - 16 mm Ø D.R.B.	 2 - 16 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 3 - 16 mm Ø D.R.B.	-DO-
B - 3	 3 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 2 - 25 mm Ø D.R.B.	 2 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 3 - 25 mm Ø D.R.B.	-DO-
B - 4	 5 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 3 - 25 mm Ø D.R.B.	 3 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 5 - 25 mm Ø D.R.B.	-DO-
B - 5	 6 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 3 - 25 mm Ø D.R.B.	 3 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 6 - 25 mm Ø D.R.B.	-DO-
B - 6	 3 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 2 - 25 mm Ø D.R.B.	 FREE END 2 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 3 - 25 mm Ø D.R.B.	-DO-

SECTION	END - SECT. BARS	MID - SECT. BARS	SPACING OF STIRRUPS
B - 7	 5 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 3 - 25 mm Ø D.R.B.	 FREE END 3 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 5 - 25 mm Ø D.R.B.	-DO-
RB - 1	 3 - 16 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 2 - 16 mm Ø D.R.B.	 3 - 16 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 2 - 16 mm Ø D.R.B.	-DO-
RB - 2	 3 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 2 - 25 mm Ø D.R.B.	 2 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 3 - 25 mm Ø D.R.B.	-DO-
RB - 3	 3 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 2 - 25 mm Ø D.R.B.	 FREE END 2 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 3 - 25 mm Ø D.R.B.	-DO-
RB - 4	 5 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 3 - 25 mm Ø D.R.B.	 3 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 5 - 25 mm Ø D.R.B.	-DO-
RB - 5	 FREE END 2 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 3 - 25 mm Ø D.R.B.	 FREE END 2 - 25 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 3 - 25 mm Ø D.R.B.	-DO-
TB	 5 - 16 mm Ø D.R.B. 5 - 10 mm Ø D.R.B. 5 - 16 mm Ø D.R.B.	 5 - 16 mm Ø D.R.B. 5 - 10 mm Ø D.R.B. 5 - 16 mm Ø D.R.B.	-DO-
SECTION	SUPP. - SECT BARS	END - SECT BARS	SPACING OF STIRRUPS
CB	 3 - 16 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 3 - 16 mm Ø D.R.B.	 3 - 16 mm Ø D.R.B. 2 - 10 mm Ø D.R.B. 3 - 16 mm Ø D.R.B.	10 mm. Ø STIRRUPS 4 - 50mm, 6 - 75mm, 6 -100mm REST @ 200mm O.C.

1 / S 7 SCHEDULE OF BEAMS

SCALE N. T. S.

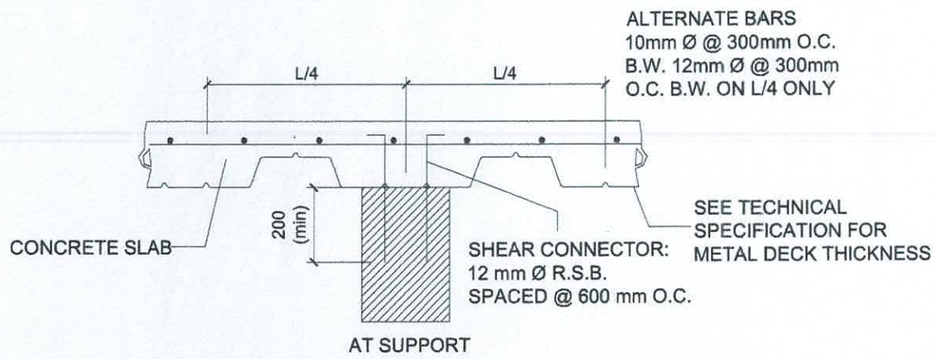
PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	M. A. DAGASDAS, JR., MEng, IStructS M.PICE, M.ASEP, M.ISSEP STRUCTURAL ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	S - 7



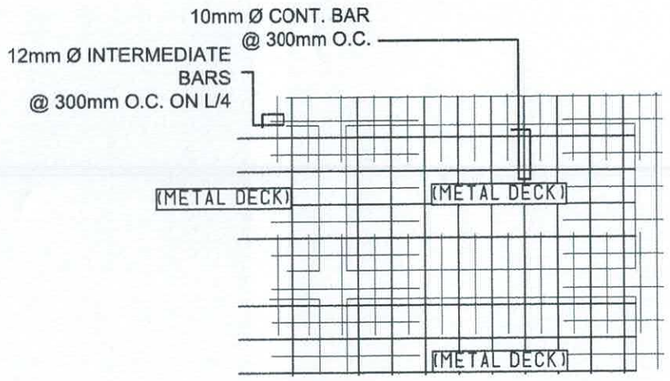
RIBDECK DETAIL

TECHNICAL SPECIFICATION FOR METAL DECK

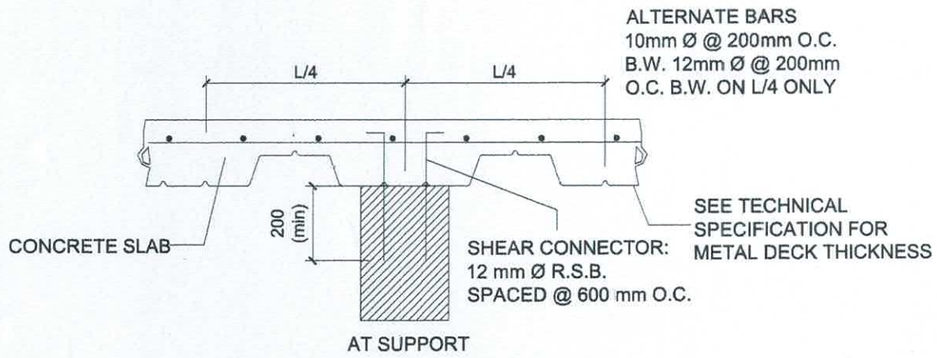
SLAB LABEL	SLAB THICKNESS	METAL DECK THICKNESS	SUPERIMPOSED LIVELOAD	REMARKS
S1	100 mm	0.80 mm Fy = 80,000psi	2.40 kPa	FOR OFFICES & CLASSROOMS
S2	150 mm	1.00 mm Fy = 80,000psi	4.80 kPa	FOR PUBLIC USE/ASSEMBLY



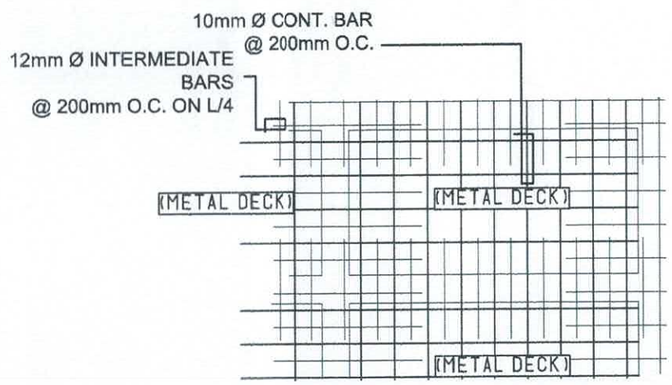
SLAB DETAILS (S1)



RIBDECK REINFORCEMENTS (S1)



SLAB DETAILS (S2)

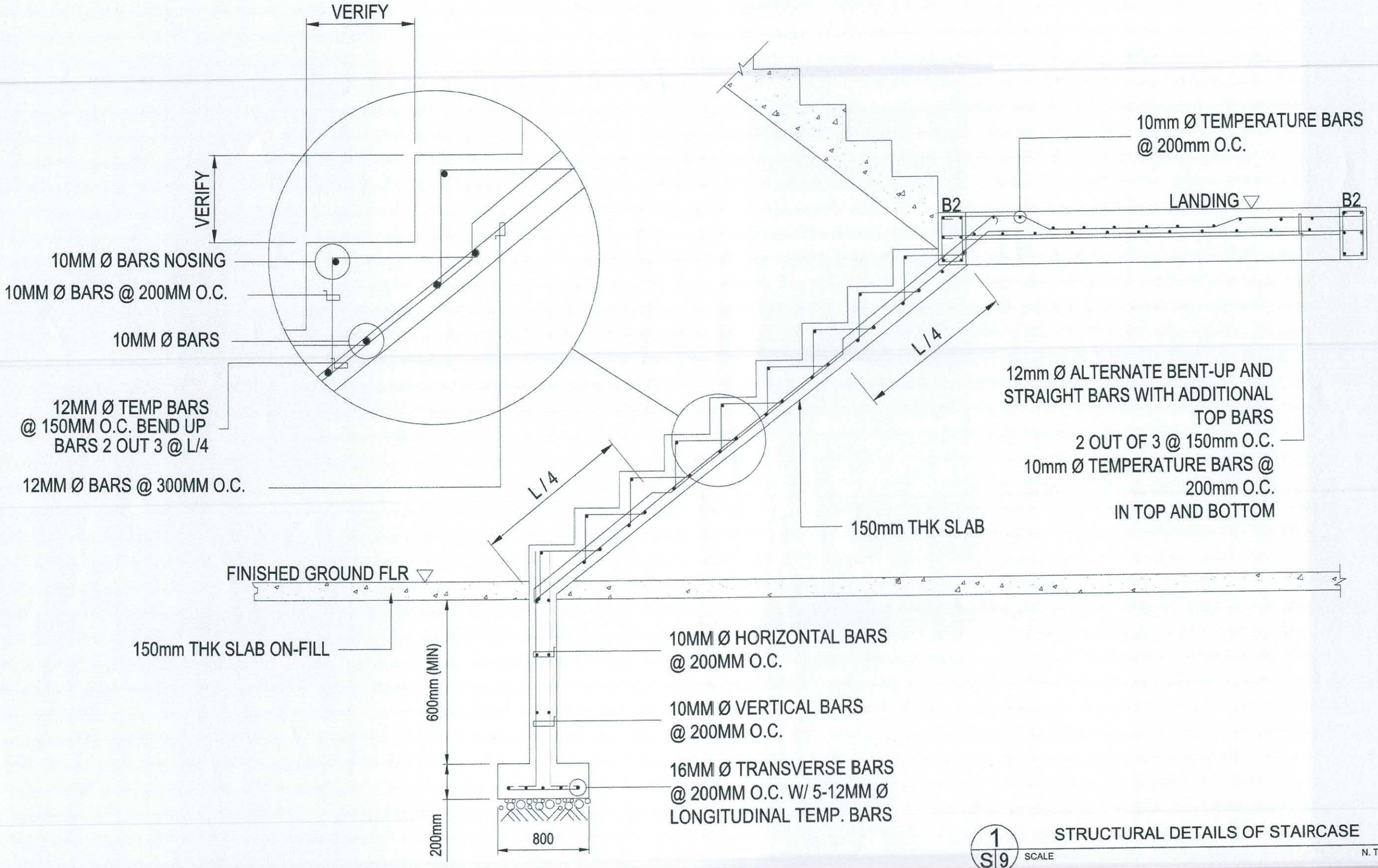


RIBDECK REINFORCEMENTS (S2)

1/S8 SCALE N. T. S.

STRUC. DETAILS OF METAL DECKING

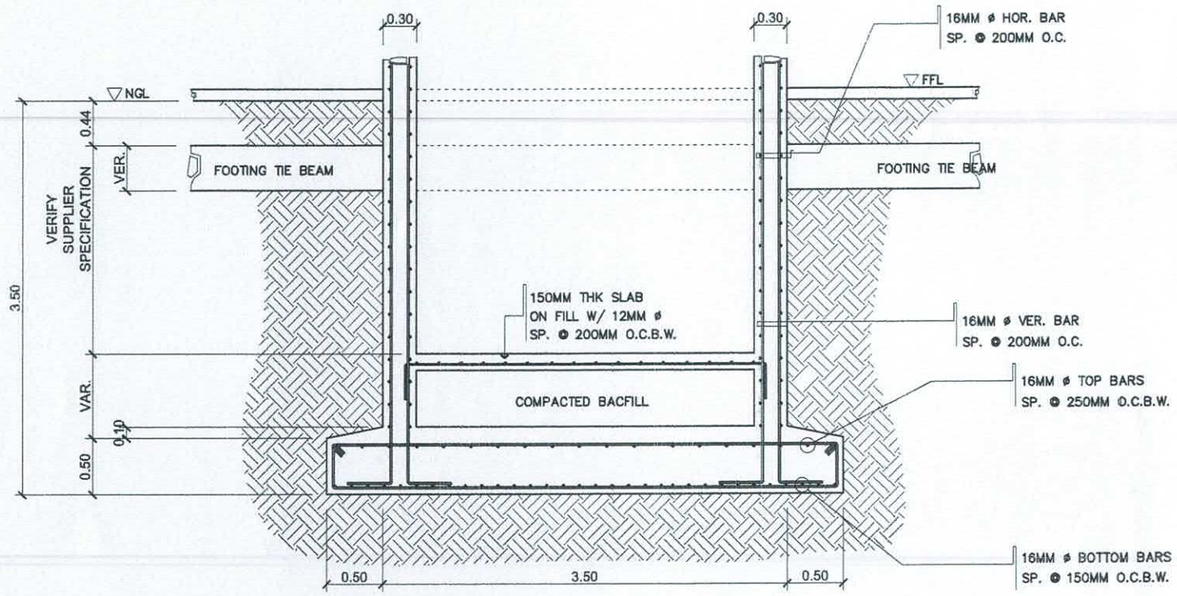
PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	M. A. DAGASDAS, JR., MEng, IStructS M.PICE, M.ASEP, M.ISSEP STRUCTURAL ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	S - 8



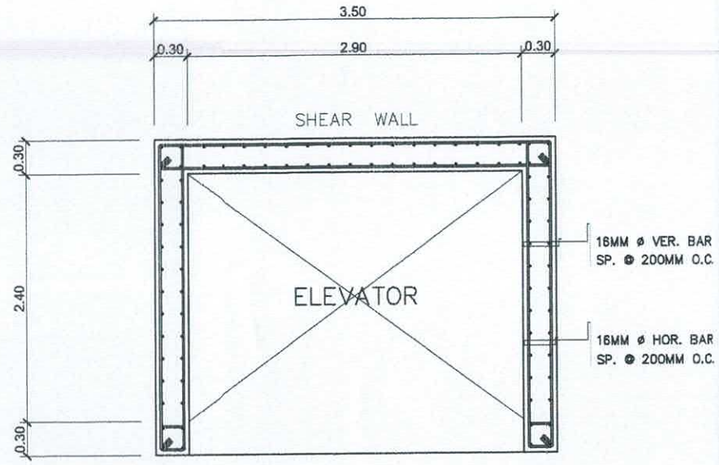
1/S9 STRUCTURAL DETAILS OF STAIRCASE

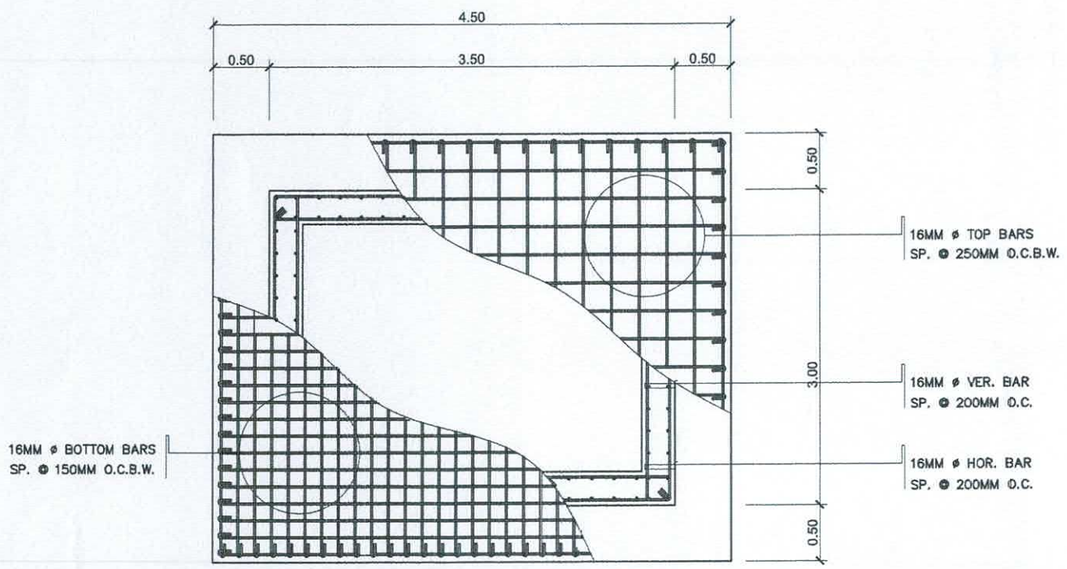
SCALE N. T. S.

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	M. A. DAGASDAS, JR., MEng, IStructS M.PICE, M.ASEP, M.ISSEP STRUCTURAL ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	S - 9

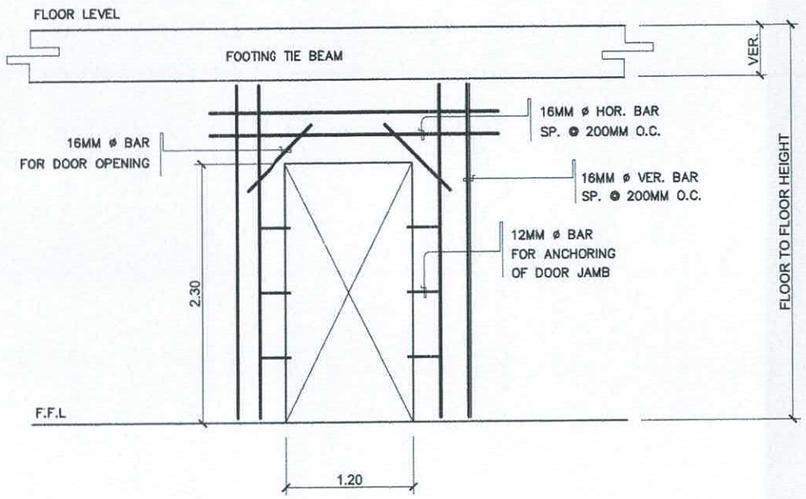


SECTION





PLAN



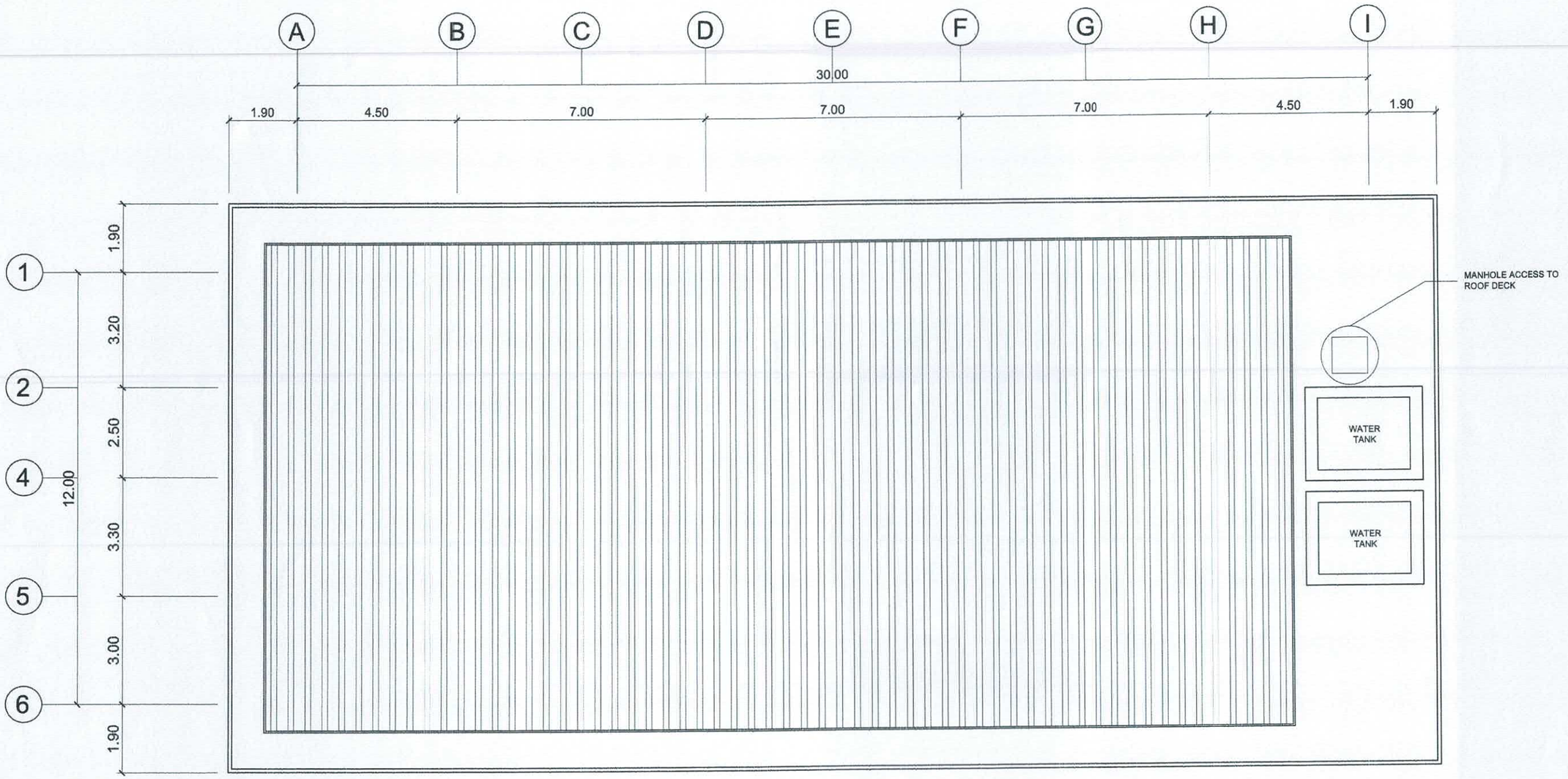
DOOR OPENING

NOTE: ELEVATOR DESIGN MAY VARY WITH THE ELEVATOR SUPPLIER/DISTRIBUTOR, PLEASE VERIFY THE DESIGN WITH THE SUB-CONTRACTOR OF ELEVATOR.

1 / S 10 DETAILS OF ELEVATOR SHAFT

SCALE N. T. S.

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
J. D. ESCANO, PDU, OVPPD	E. J. GALVEZ, DEAN, COM	M. A. DAGASDAS, JR., MEng, IStructS M.PICE, M.ASEP, M.ISSEP, STRUCTURAL ENGINEER; S. B. BAYOT JR., HEAD, PDU	O. B. DELOS REYES, DIRECTOR, PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS, VPPD, CVSU; J. X. B. NEROMUCENO, VPAAS, CVSU	H. D. ROBLES, PRES, CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY, CAVITE STATE UNIVERSITY, MAIN CAMPUS	CAVITE STATE UNIVERSITY	S - 10



1 / S 11 ROOF PLAN

SCALE 1 : 125 MTS.

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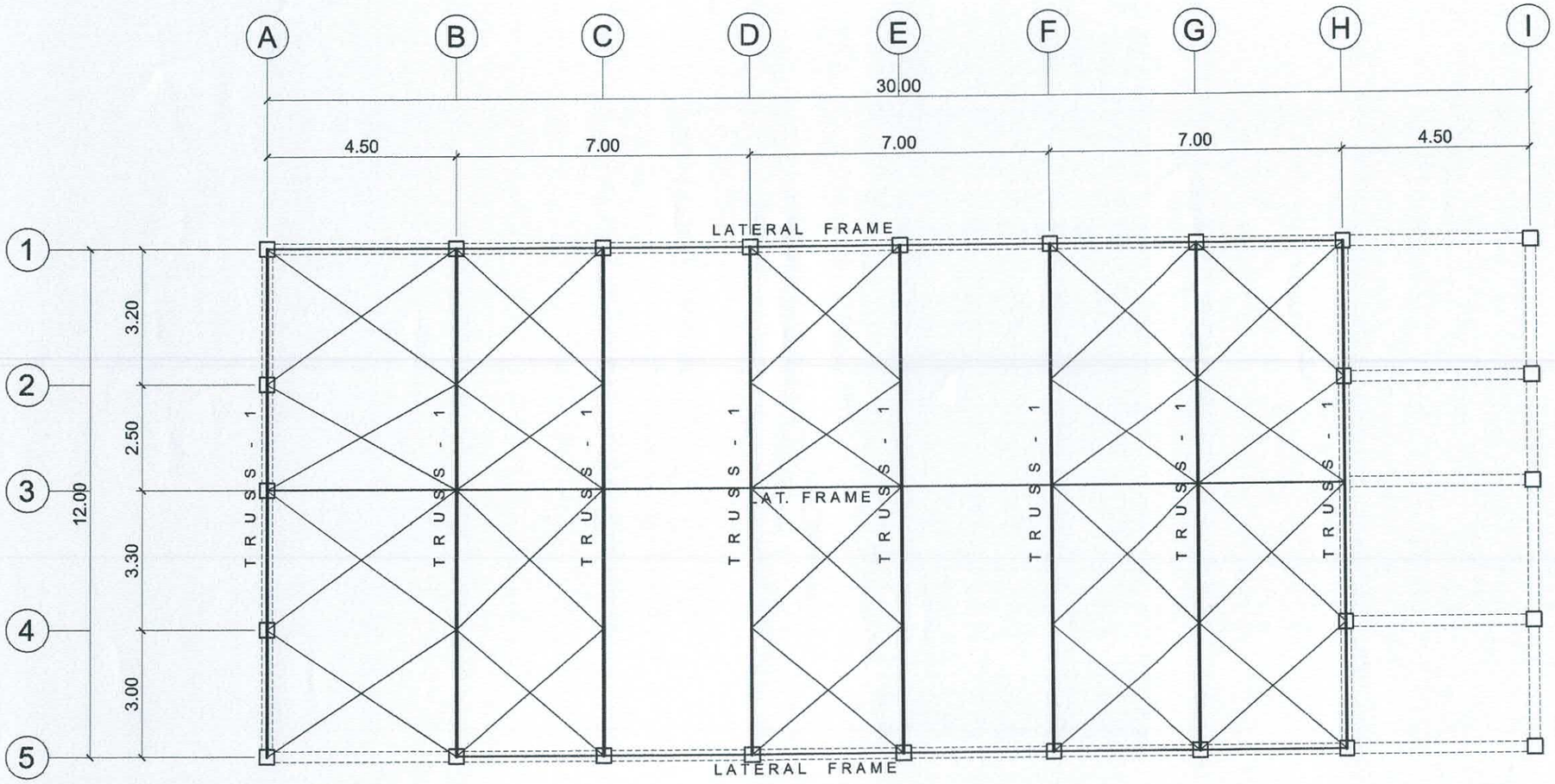

1
S 12

ROOF FRAMING PLAN

SCALE 1 : 125 MTS.

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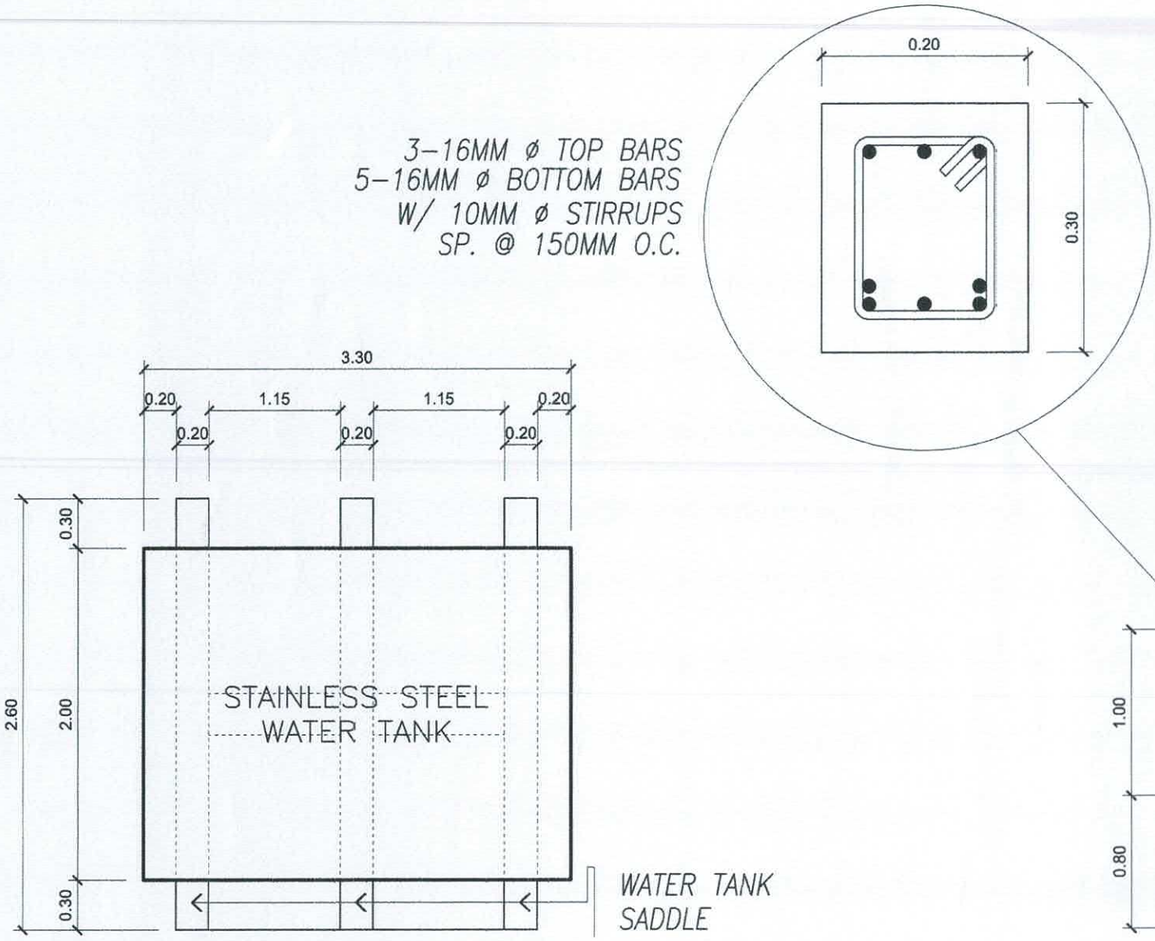
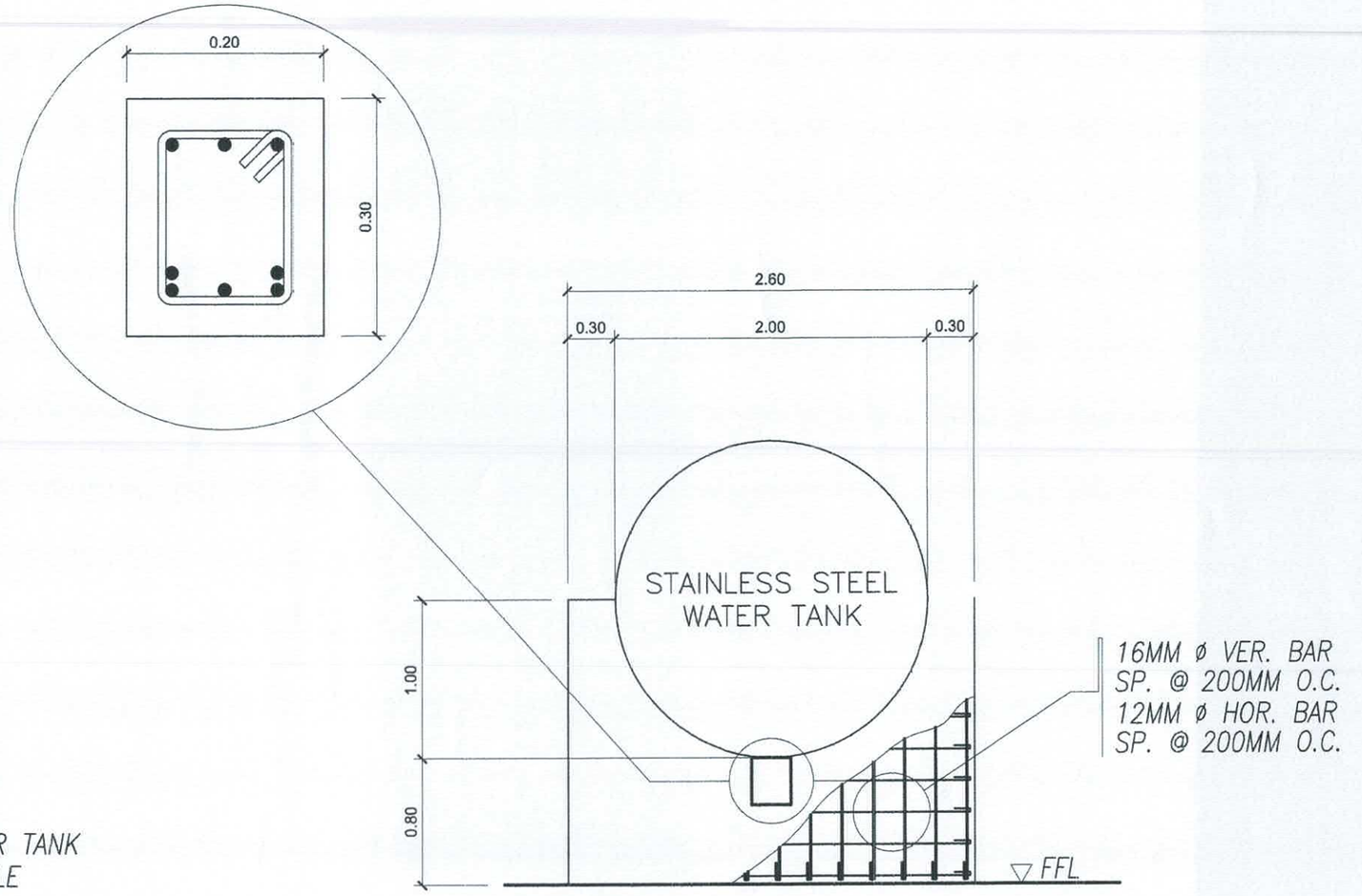


PLAN



SECTION

1 / S 13 DET. OF WATER TANK SADDLE

SCALE N. T. S.

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NOTES:

USE THE FOLLOWING:

TOP CHORDS - 2" Ø SCHED. 40 G.I PIPE

BOTTOM CHORDS - 2 ½" Ø SCHED. 40 G.I PIPE

WEB MEMBERS - 1 ½" Ø SCHED. 40 G.I PIPE

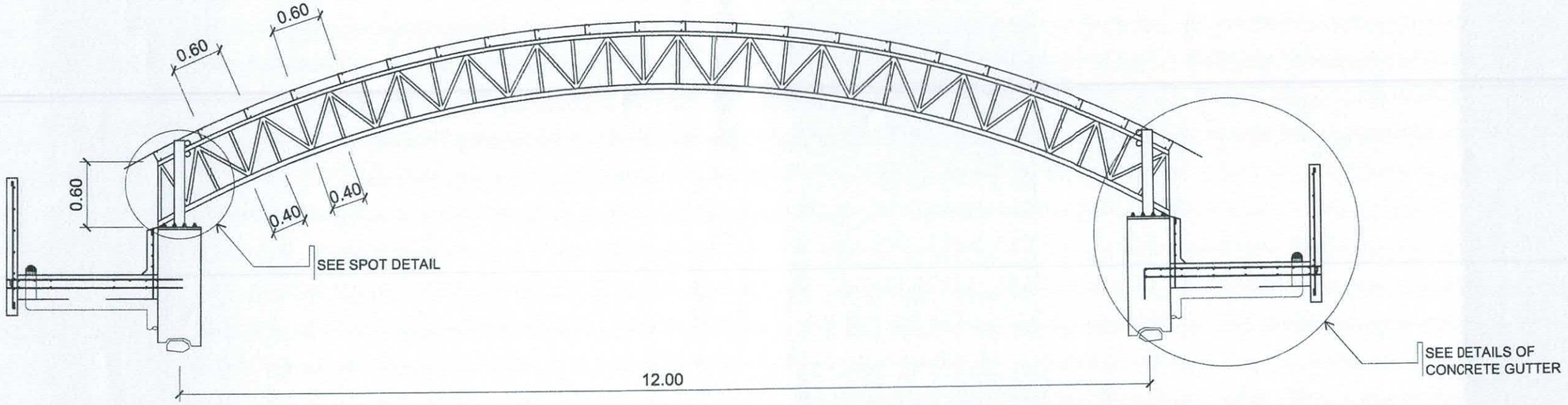
2" x 5" X 1.5mm THK. CEE PURLINS SPACED @ 600 mm. O. C.

2" x 2" x ¼" CLEATS

20 mm. Ø CROSS BRACING W/ TURN BUCKLE

12 mm. Ø SAG ROD @ MIDDLE

ALL JOINTS ARE FULLY WELDED



1
S 14

DET. OF ROOF TRUSSES

SCALE 1 : 100 MTS.

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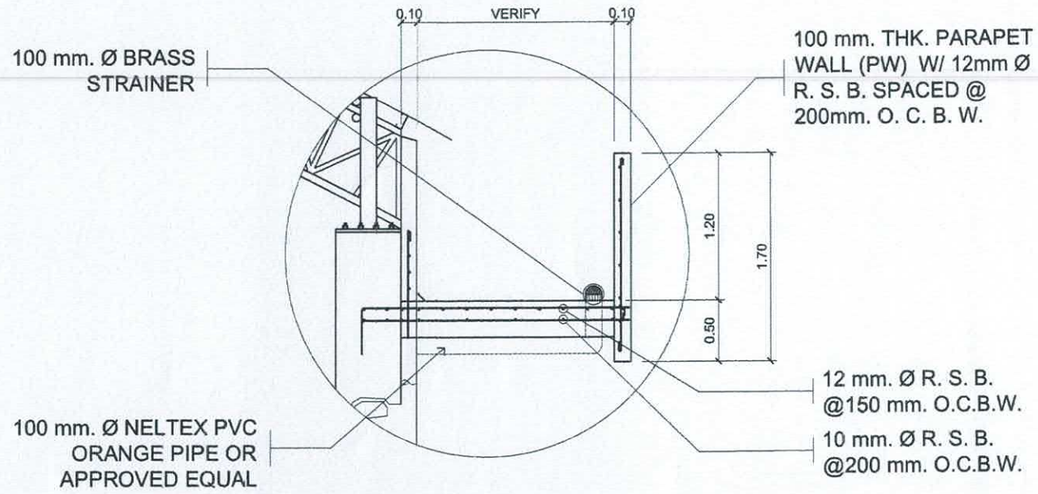
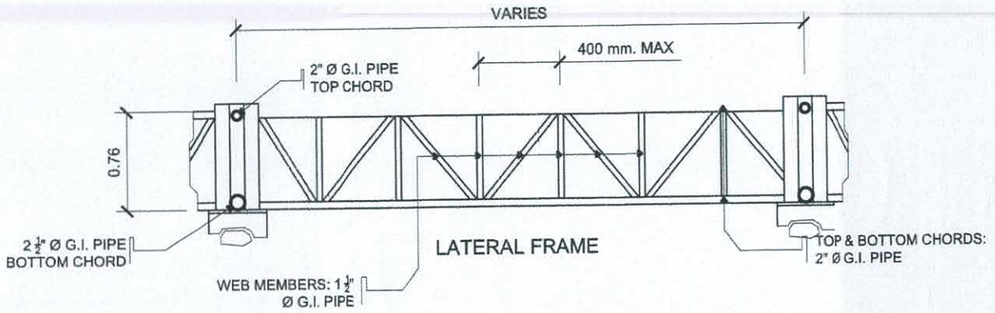


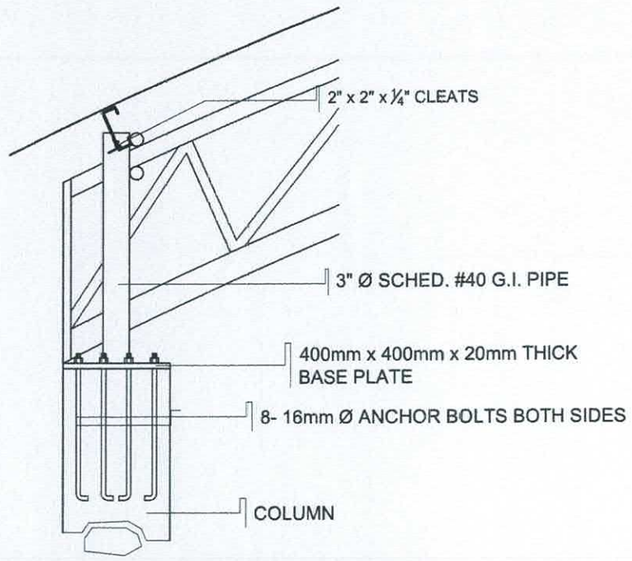
1 / S 15 — DET. OF CONC. GUTTER

SCALE N. T. S.



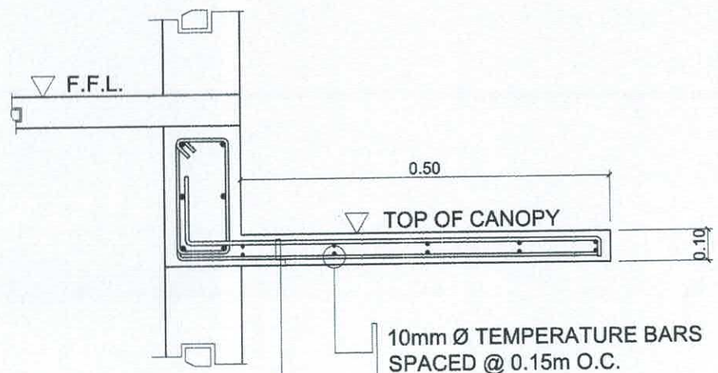
3 / S 15 — DET. OF LATERAL FRAME

SCALE N. T. S.



2 / S 15 — SPOT DETAILS

SCALE N. T. S.



4 / S 15 — DET. OF CONCRETE CANOPY

SCALE N. T. S.

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J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	M. A. DAGASDAS, JR., MEng, IStructS M.PICE, M.ASEP, M.ISSEP STRUCTURAL ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY — CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	S - 15

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. 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.
5. SERVICE VOLTAGE TO THE BUILDING FROM THE POWER SOURCE SHALL BE 230V.
6. SERVICE ENTRANCE WIRING SHALL BE RIGID STEEL CONDUIT (RSC).
7. FEEDER WIRING SHALL BE ELECTRICAL METALLIC TUBING (EMT).
8. BRANCH CIRCUIT WIRING ELECTRICAL METALLIC TUBING (EMT).
9. BRANCH CIRCUIT WIRING EMBEDDED IN CONCRETE SHALL BE IN PVC PIPE WITH ADEQUATE GROUND WIRE FOR EQUIPMENT GROUNDING.
10. LIGHT SWITCHES SHALL BE 15A, 230VAC.
11. ALL MATERIALS SHALL BE BRAND NEW AND OF APPROVED TYPE FOR LOCATION AND PURPOSE INTENDED.
12. DEVICES, FIXTURES LOCATED OUTDOOR SHALL BE WEATHERPROOF TYPE.
13. MOUNTING HEIGHTS ARE:

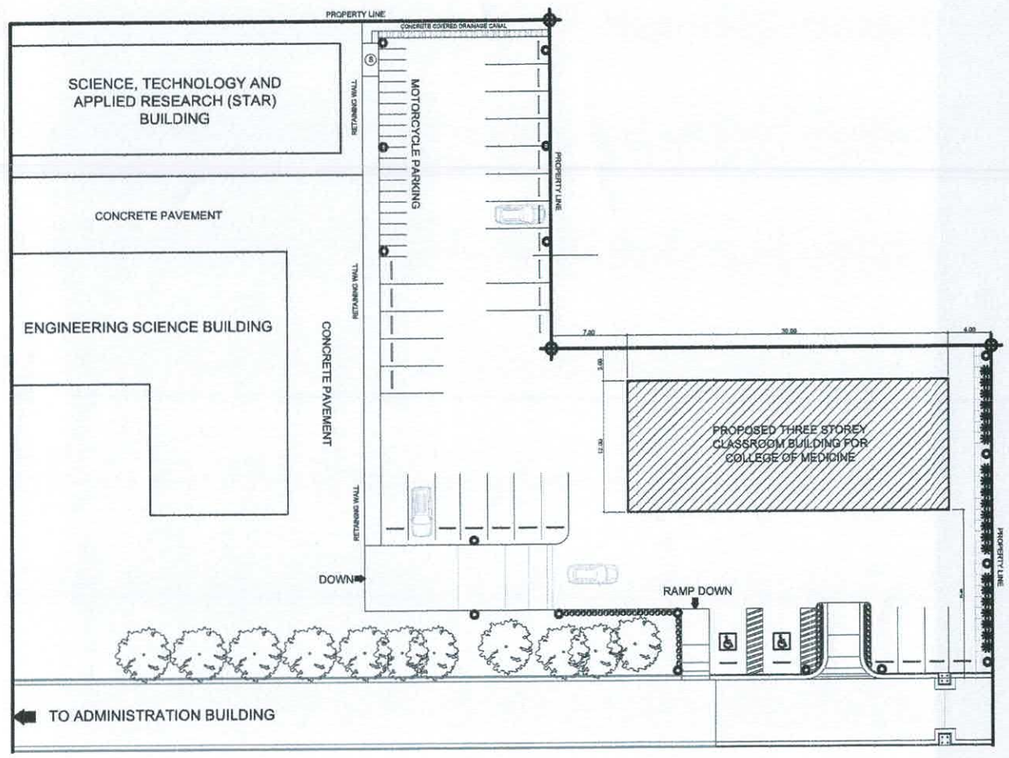
A.	LIGHT SWITCHES	1.40M ABOVE FLOOR FINISH
B.	CONVENIENCE OUTLETS	0.30M ABOVE FLOOR FINISH
C.	COUNTER TOP C.O,	0.40M TO .50M ABOVE THE COUNTER
D.	TELEPHONE OUTLETS	0.30M ABOVE FLOOR FINISH
E.	PANEL BOARD	1.50M ABOVE FLOOR FINISH
F.	EMERGENCY LIGHT	0.30M BELOW CEILING LINE
G.	C.O. LOCATED AT PARKING AREAS	0.40M TO .50M ABOVE FLOOR FINISH

14. ANY DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION OR DECISION.
15. THE ENTIRE WORK SHALL BE DONE UNDER THE DIRECT SUPERVISION OF DULY REGISTERED ELECTRICAL ENGINEER.
16. REFER TO SHEETS E-2 TO E-4 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.
17. REFER TO LOAD SCHEDULE FOR THE RATING OF INDIVIDUAL ENCL, ACB'S IN NEMA-3R.
18. ALL ELECTRICAL CONDUITS AND TELEPHONE SERVICE ENTRANCE THAT INSTALLED BELOW THE GROUND SHALL BE IN CONCRETE ENCASEMENT.
19. ANY DEVICES OR EQUIPMENT NOT REFLECTED OR SHOWN ON PLANS BUT REQUIRED TO COMPLETE THE SYSTEM MUST BE INCLUDED ON SCOPE OF WORK.
20. REQUEST FOR TEMPORARY POWER INTERRUPTION SHOULD BE COORDINATED TO OWNER'S REPRESENTATIVE OR DESIGNER.
21. THE SIZE OF GENERATOR IS 40% OF THE TOTAL VA LOAD. THIS IS INTENDED TO SUPPLY ELECTRIC POWER FOR LIGHTINGS AND OTHER IMPORTANT APPLIANCES DURING THE POWER INTERRUPTION OF MAIN POWER SOURCE.

LEGEND AND SYMBOLS :

	LED BULB, SURFACE MOUNTED, ROUND 12W w/ 6" DIAMETER CASING FIXTURE	3P, 3P	CIRCUIT BREAKER WITH NEMA 3R METAL ENCLOSURE (2 POLE/ 3 POLE CIRCUIT BREAKER)
	1-9W LED LIGHT TUBE WITH DIFFUSER 2 FT. LENGTH (FL)	16 AC CONDENSER	ACU CONDENSER OUT DOOR UNIT WITH NEMA 3R CIRCUIT BREAKER
	2-9W LED LIGHT TUBE WITH DIFFUSER 2 FT. LENGTH (FL)	18	ACU WALL/FLOOR MOUNTED, SPLIT TYPE, INDOOR UNIT
	1-18W LED LIGHT TUBE WITH DIFFUSER 4 FT. LENGTH (FL)		2.0 mm² THHN
	2-18W LED LIGHT TUBE WITH DIFFUSER 4 FT. LENGTH (FL)		3.5 mm² THHN
	EMERGENCY LIGHT (EL)		CIRCUIT HOMERUN
S_T S_A	ONE GANG SWITCH	1LPP1	CIRCUIT NUMBER

S_2, S_{AB}	TWO GANG SWITCH		PANEL BOARD
S_3	THREE GANG SWITCH		SERVICE ENTRANCE
S_{3W}, S_{a3W}	THREE WAY SWITCH	M	KILOWATT HOUR METER
	TWO GANG CONVENIENCE OUTLET		CONCRETE ENCASEMENT
$_{wp}$	WEATHER-PROOF OUTLET		CABLE CHAMBER
	TWO GANG CONVENIENCE OUTLET (FLOOR MOUNTED)		DISTRIBUTION TRANSFORMER
$_{spo}$, $_{spo}$	TWO GANG SPECIAL POWER OUTLET TWO GANG SPECIAL POWER OUTLET (FLOOR MOUNTED)		PRIMARY CONCRETE POLE
	THREE PIN ACU OUTLET		SERVICE ENTRANCE PEDESTAL WITH DISCONNECTING SWITCH
A.C.	ACU WINDOW TYPE	3	SECONDARY LINE



1 / E1 SITE DEVELOPMENT PLAN

SCALE 1 : 550 MTS.

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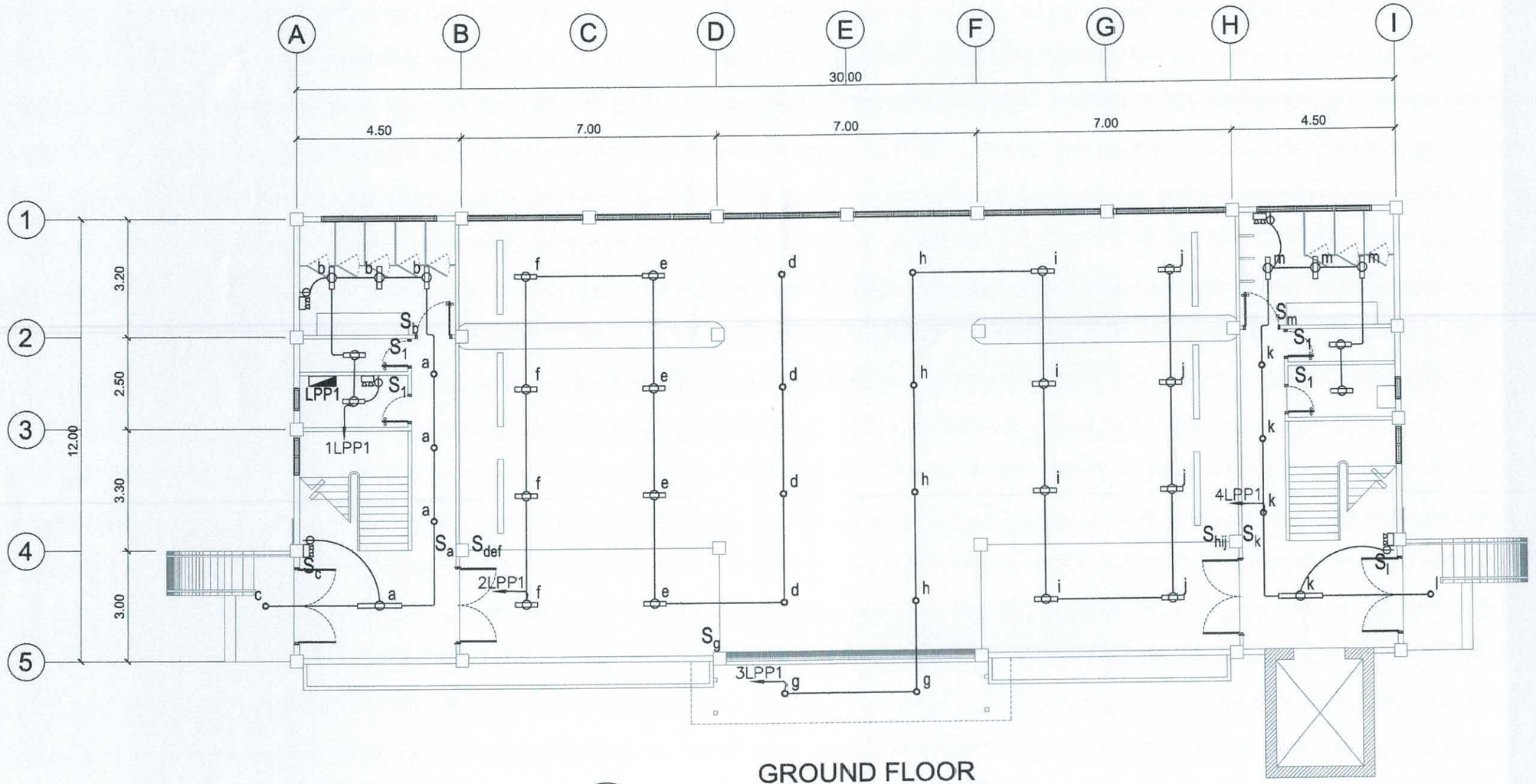
R. J. R. SANCHEZ PDU / VPPD	E. J. GALVEZ DEAN COM	R. P. PENA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NERIOMUCENO VPASS CVSU	H. D. ROBLES PRES. CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 1



GROUND FLOOR LIGHTING LAYOUT

1/E2 SCALE 1 : 125 MTS.

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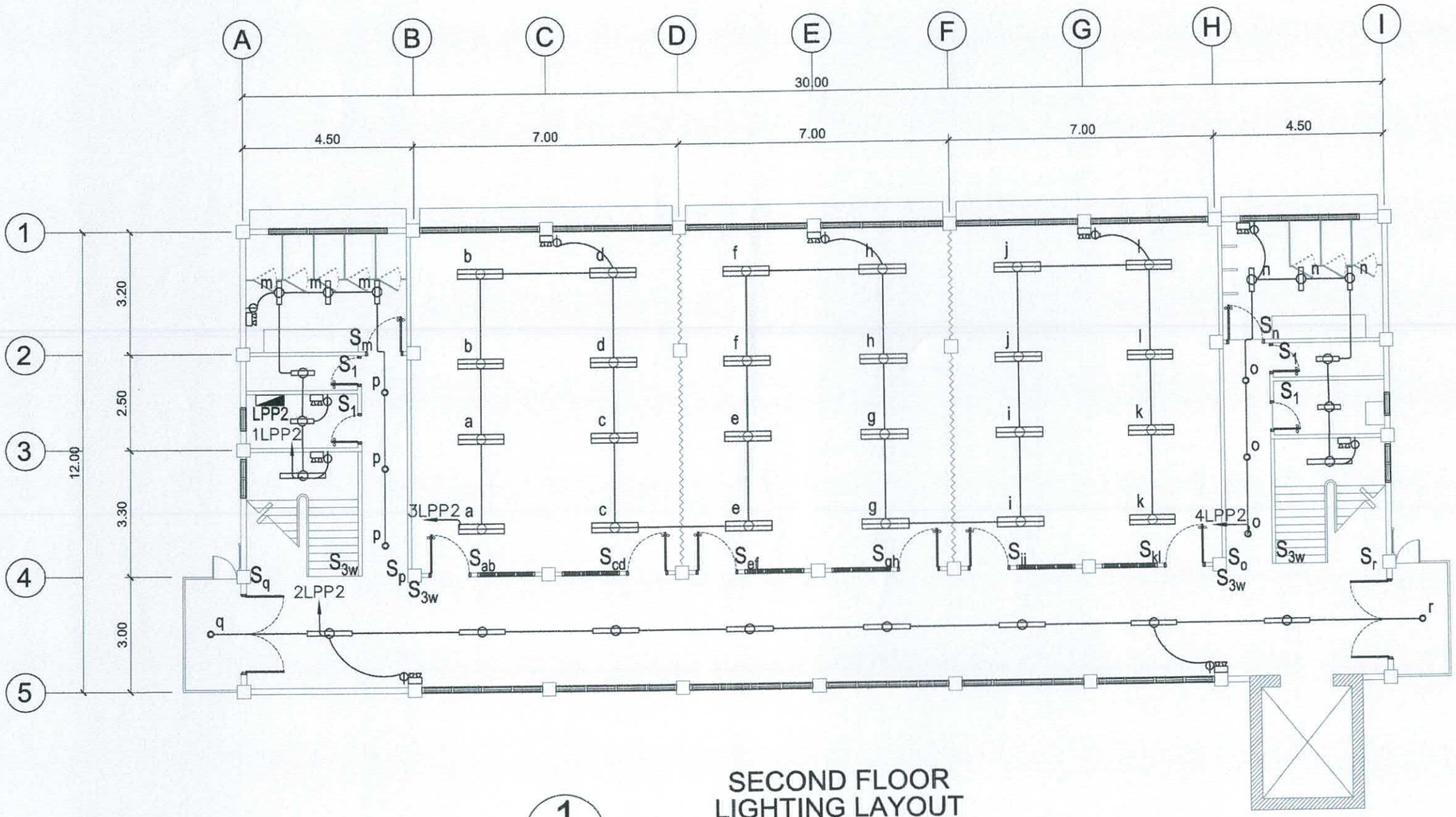

SECOND FLOOR LIGHTING LAYOUT

1/E3 SCALE 1 : 125 MTS.

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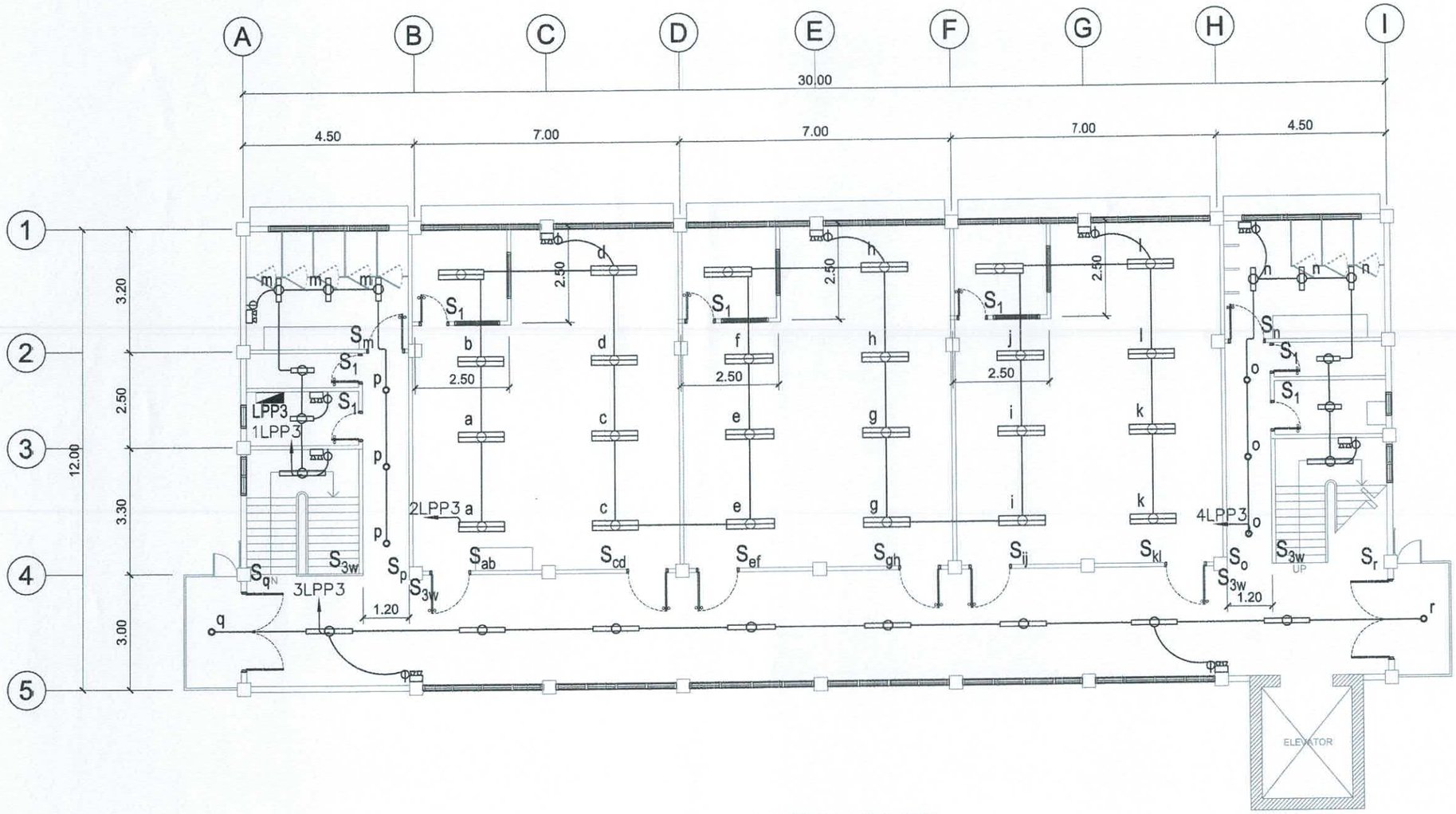

THIRD FLOOR LIGHTING LAYOUT

1 / E 3 SCALE 1 : 125 MTS.

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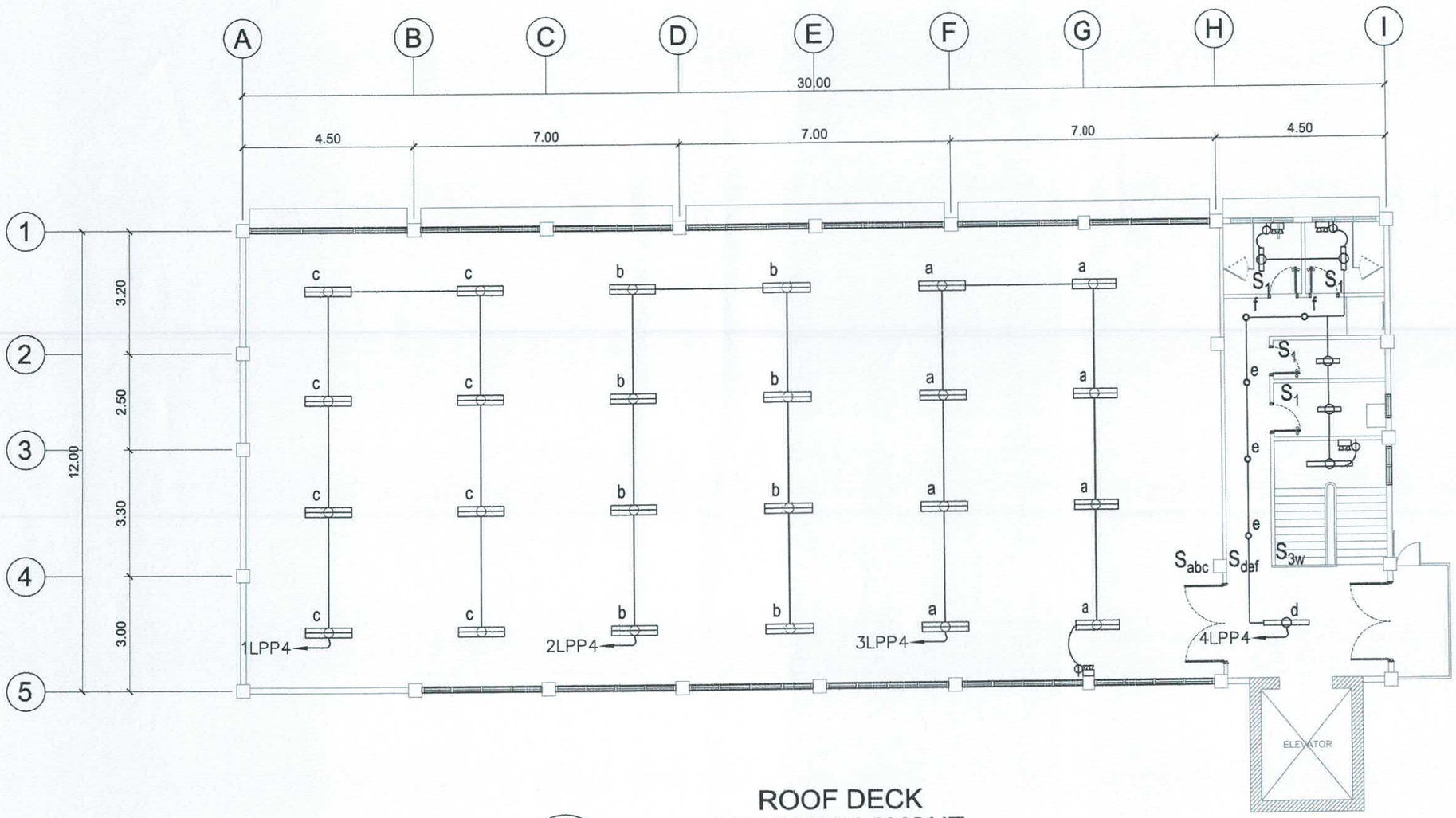

ROOF DECK LIGHTING LAYOUT

1/E4 SCALE 1 : 125 MTS.

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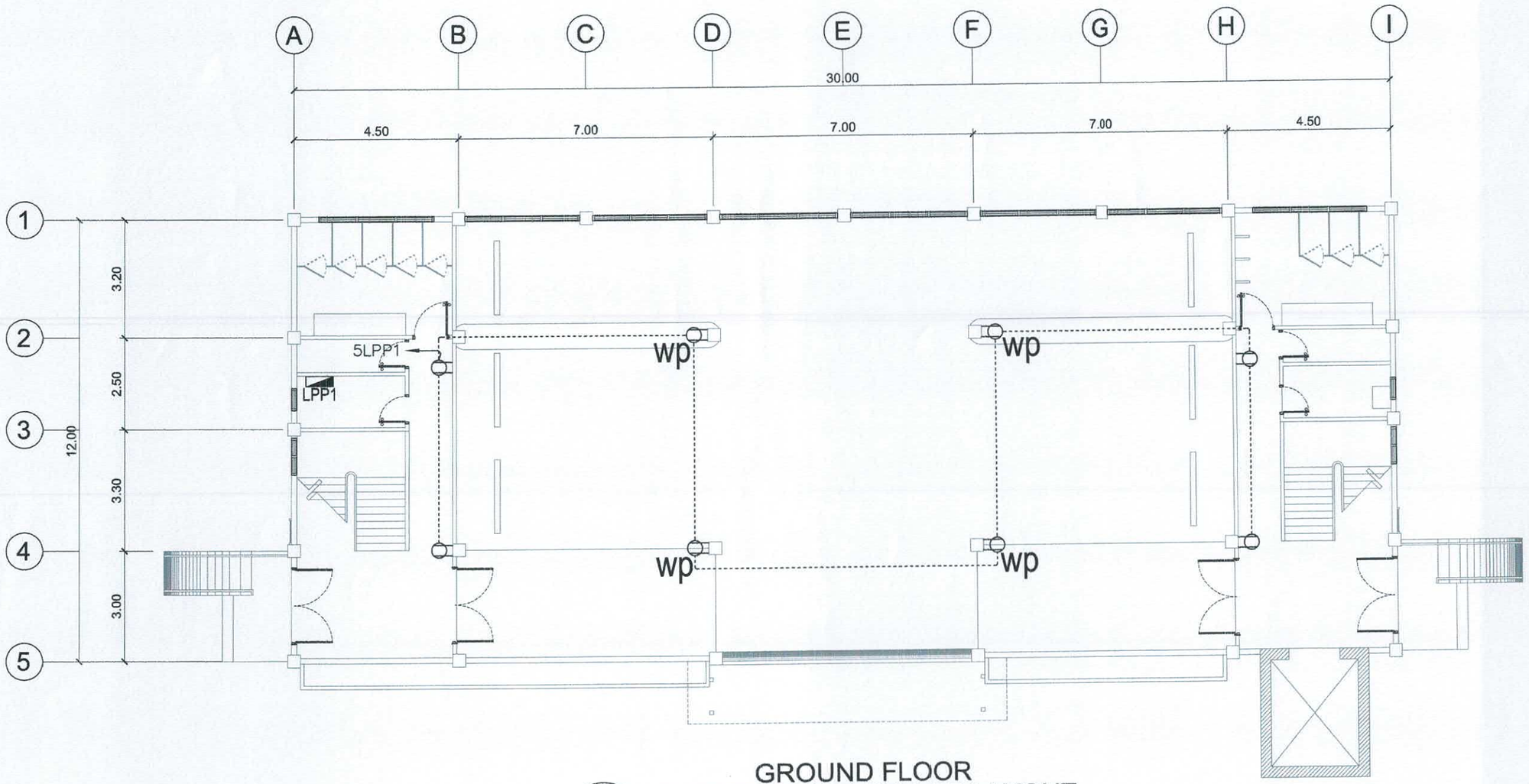

GROUND FLOOR CONVENIENCE OUTLET LAYOUT

1 / E 5 SCALE 1 : 125 MTS.

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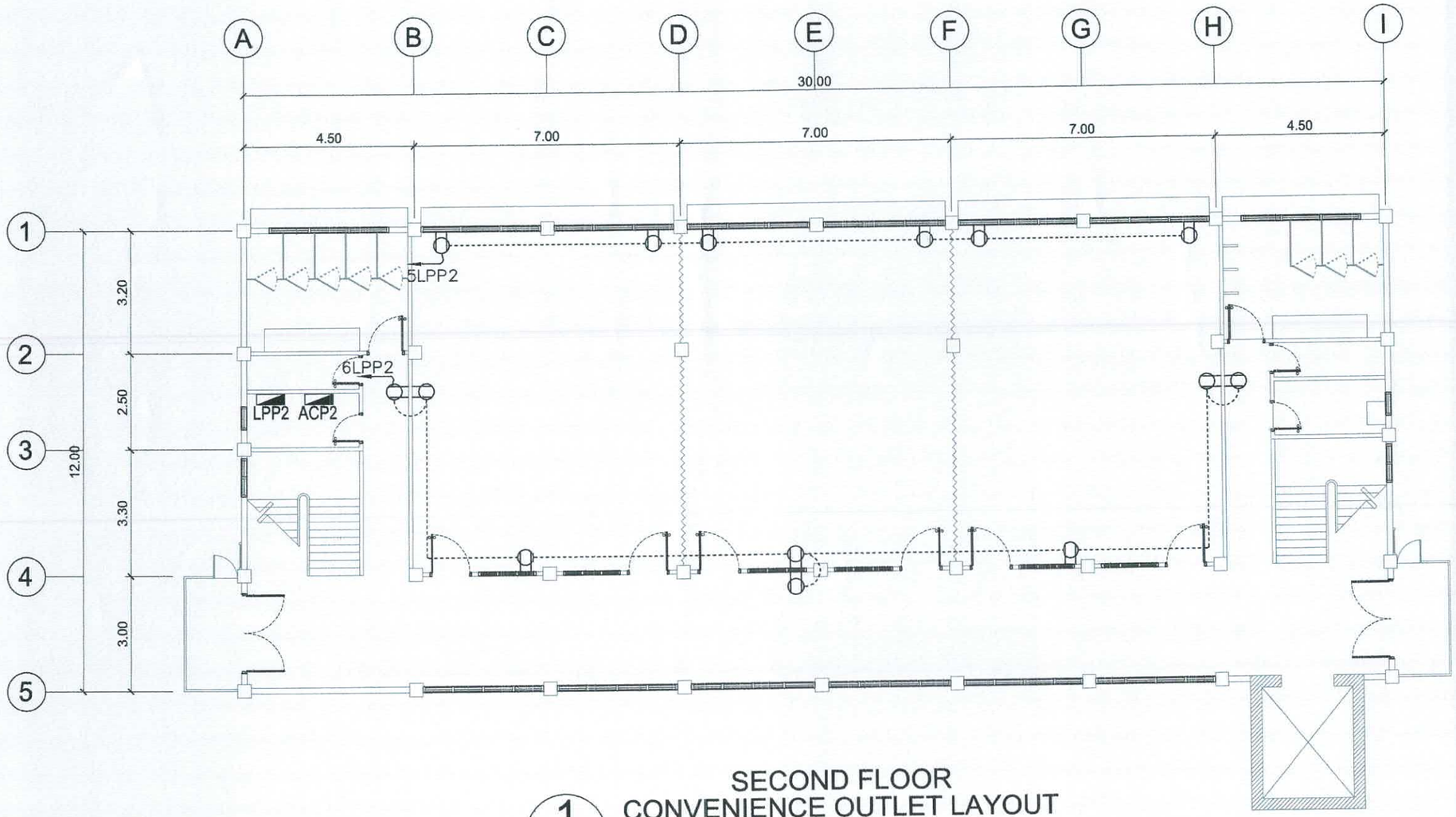

SECOND FLOOR CONVENIENCE OUTLET LAYOUT

1/E6 SCALE 1 : 125 MTS.

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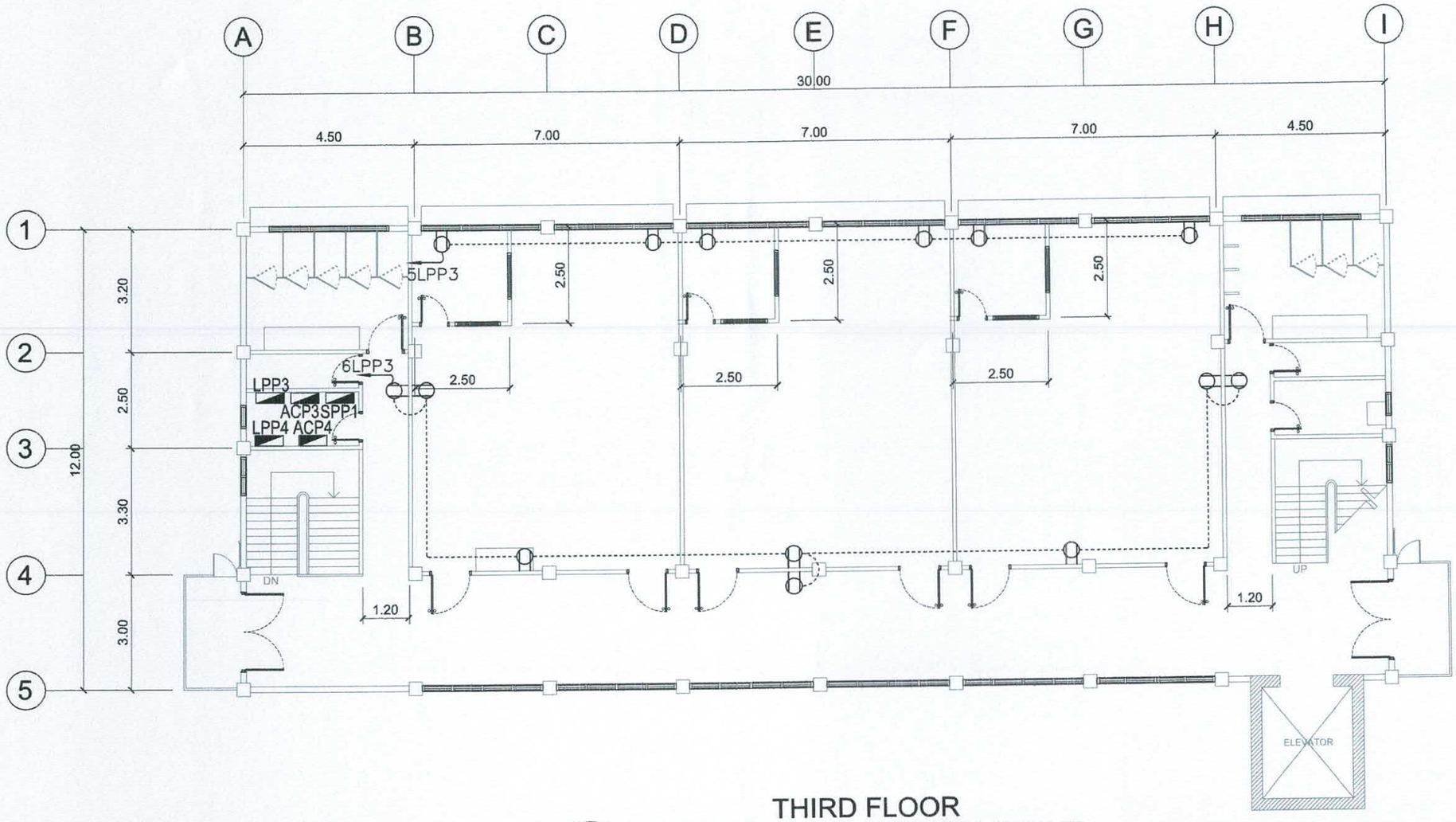

THIRD FLOOR CONVENIENCE OUTLET LAYOUT

1 / E7 SCALE 1 : 125 MTS.

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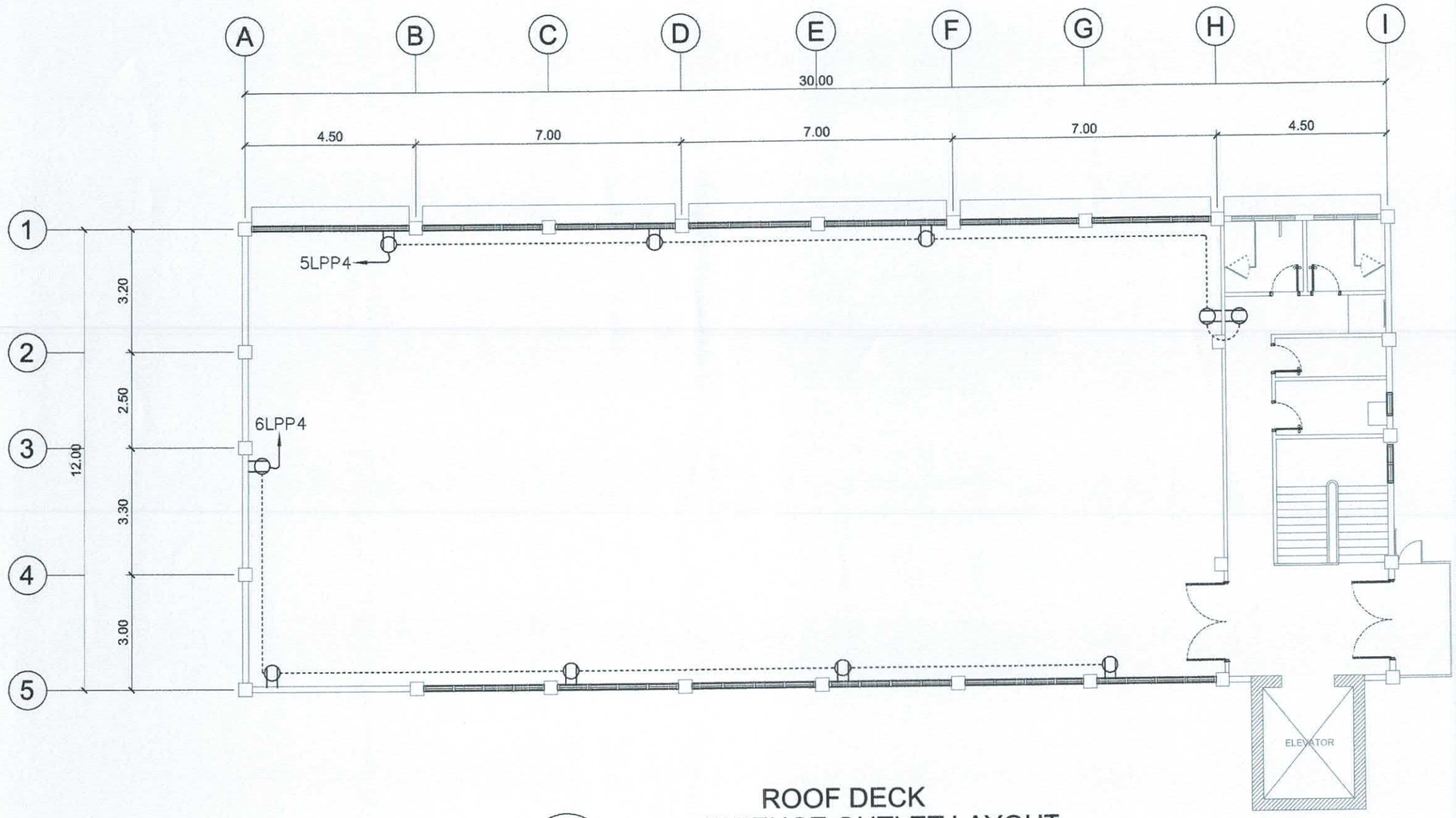
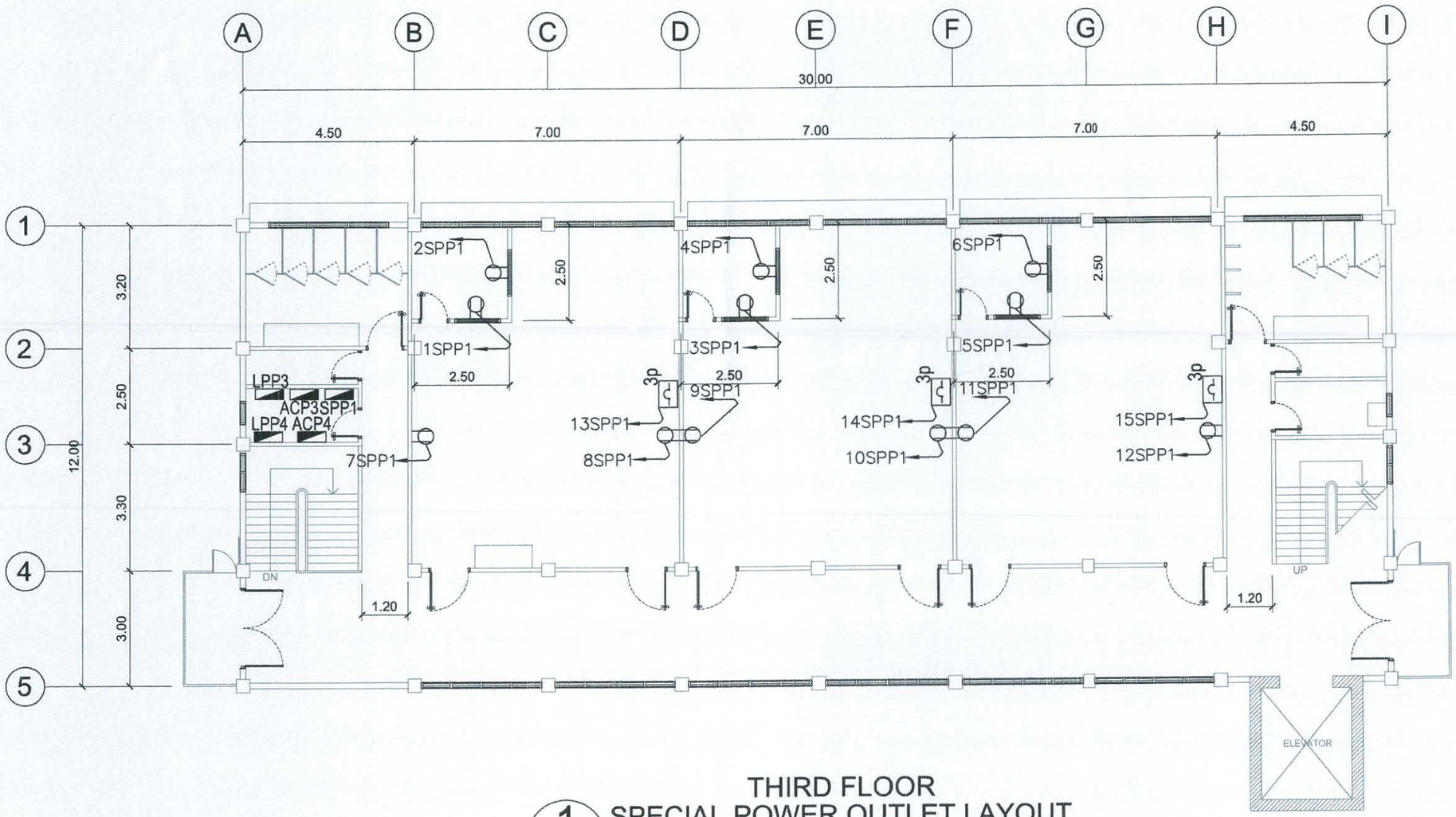


ROOF DECK
CONVENIENCE OUTLET LAYOUT

1/E8 SCALE 1 : 125 MTS.

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
R. J. R. SANCHEZ PDU OVPPD	E. J. GALVEZ DEAN COM	R. P. PEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 8

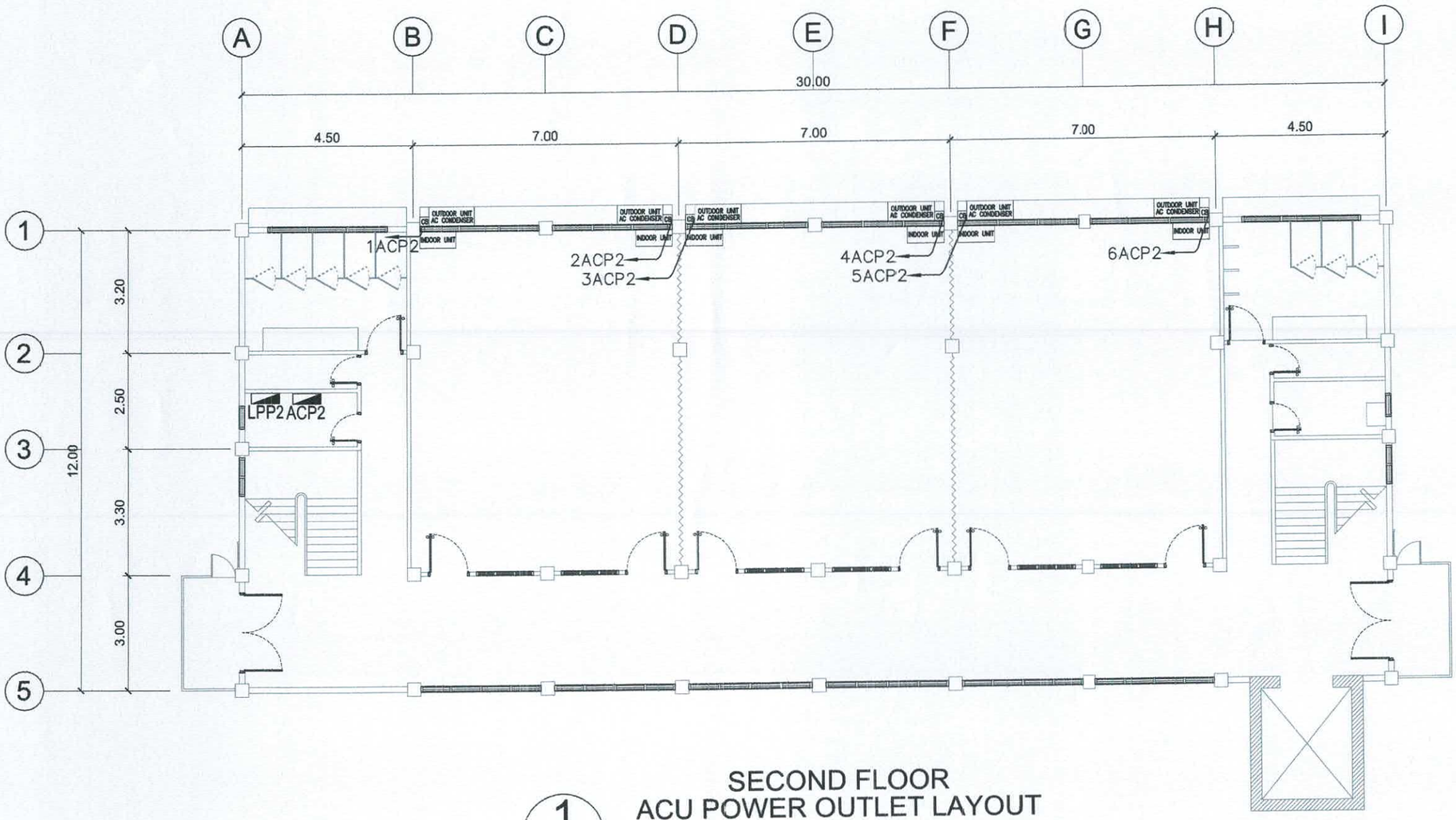


THIRD FLOOR SPECIAL POWER OUTLET LAYOUT

1 / E 9

SCALE 1 : 125 MTS.

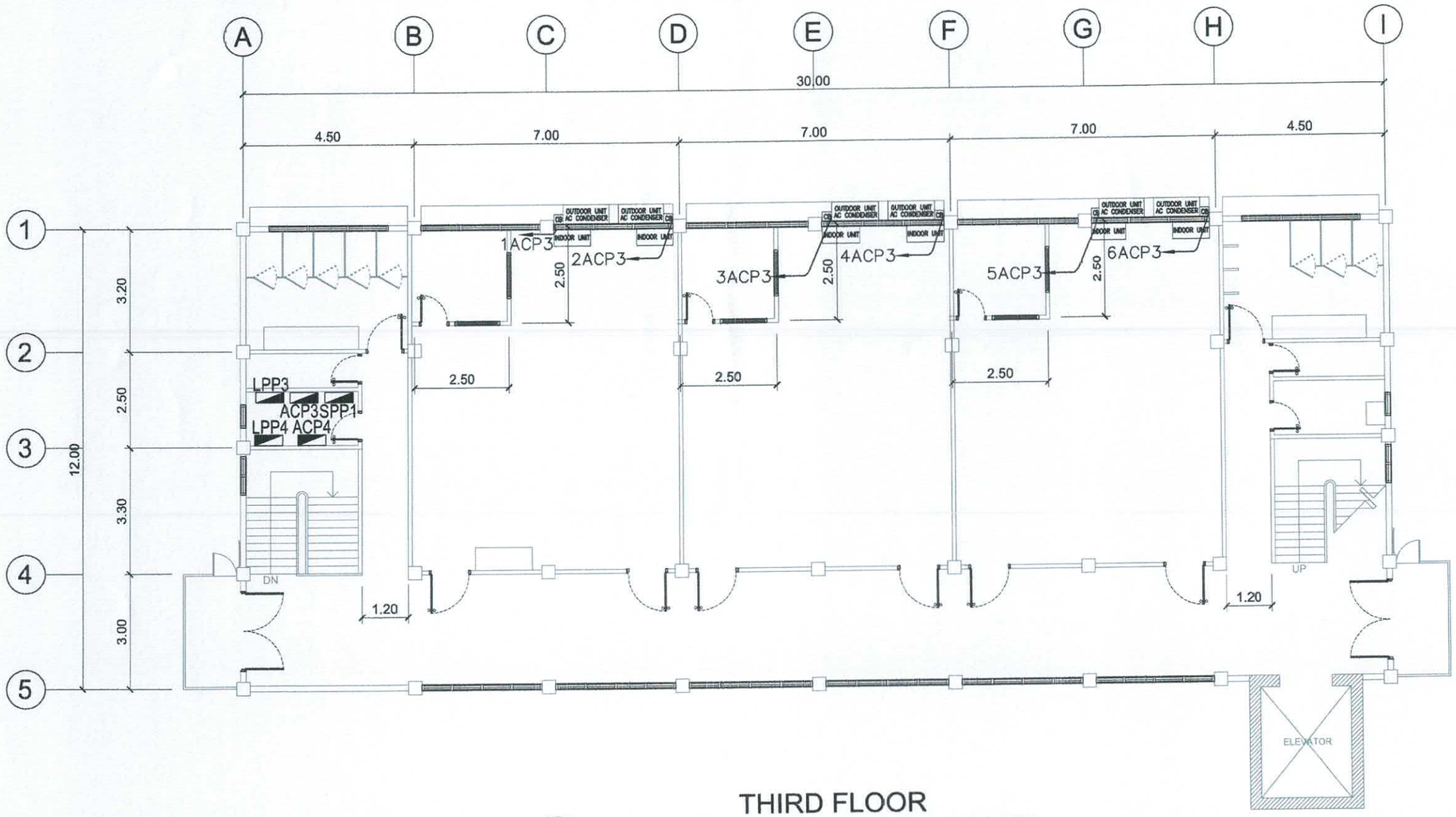
PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
R. J. R. SANCHEZ PDU / CMPPD	E. J. GALVEZ DEAN / COM	R. P. PEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD / PDU	O. B. DELOS REYES DIRECTOR / PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD / CVSU	J. X. B. NEPOMUCENO VPASS / CVSU	H. D. ROBLES PRES / CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY / MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 9



SECOND FLOOR
ACU POWER OUTLET LAYOUT

1 / E10 SCALE 1 : 125 MTS.

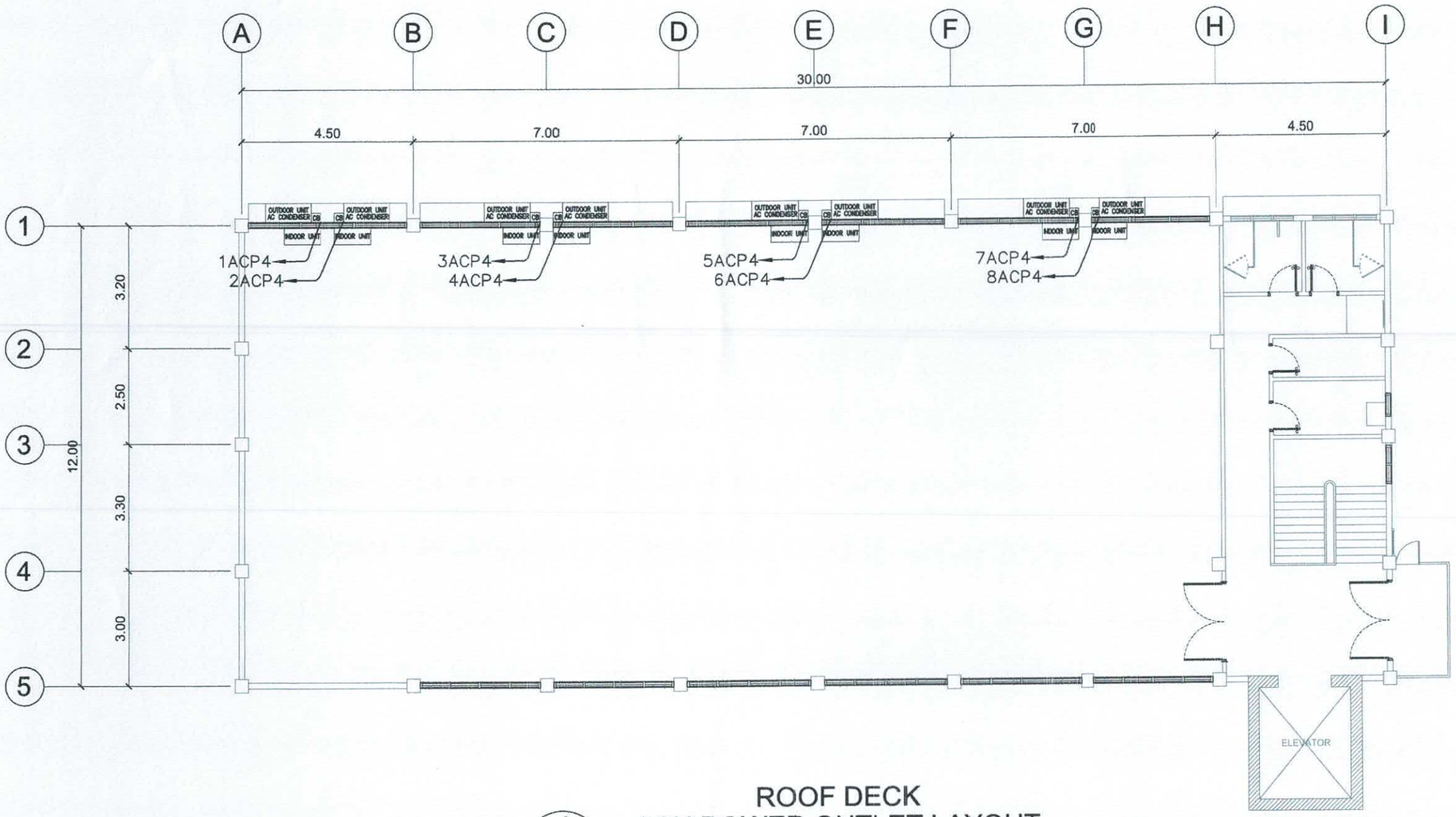
	PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	R. J. R. SANCHEZ PDU / OIC-PPD	E. J. GALVEZ DEAN COM	B. P. PEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 10



THIRD FLOOR
ACU POWER OUTLET LAYOUT

1 / E11 SCALE 1 : 125 MTS.

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
R. J. R. SANCHEZ PDU OIC-PPO	E. J. GALVEZ DEAN COM	R. P. PEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 11



ROOF DECK
ACU POWER OUTLET LAYOUT

1 / E12 SCALE 1 : 125 MTS.

	PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	R. J. R. SANCHEZ PDU OVPPD	E. J. GALVEZ DEAN COM	R. H. PEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 12

SCHEDULE OF LOADS AND PANEL BOARD DETAILS

PANEL : LPP1 (LIGHTING AND POWER PANEL 1) — **CABLE: 3 - 8.0 SQMM THHN+ 1 - 5.5 SQMM THW** — **CONDUIT: PVC, 25 MM DIA.** — **MAIN: 50 AT, 100 AF, 3P, 230V,MCCB** — **ENCLOSURE : NEMA 1** — **MOUNTING: SURFACE**

PHASE: 3
VOLTS: 230 — **LOCATION: ELECTRICAL ROOM, GROUND FLOOR**

CKT NO.	CIRCUIT DESCRIPTION	NO OF OUTLET	LOAD IN RATING						CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code
			WATTAGE	VOLTAGE	AMPERES 3 ø	AB	CA	BC	CIRCUIT BREAKER RATING	SQ. MM THHN	SQ. MM THW(G)		
1	LIGHTING OUTLET	13	1300	230		5.65			15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1R,1B,G
2	LIGHTING OUTLET	12	1200	230		5.22			15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1R,1B,G
3	LIGHTING OUTLET	14	1400	230			6.09		15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1B,1Y,G
4	LIGHTING OUTLET	12	1200	230			5.22		15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1B,1Y,G
5	CONVENIENCE OUTLET	8	1600	230				6.96	20AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	PVC, 20	1Y,1R,G
	SPARE												
	TOTAL		6700	230	0	11	11	7	50 AT, 3P, 230V, MCCB	3 - 8.0	+ G 5.5	PVC, 25	1R,1B,1Y,G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:

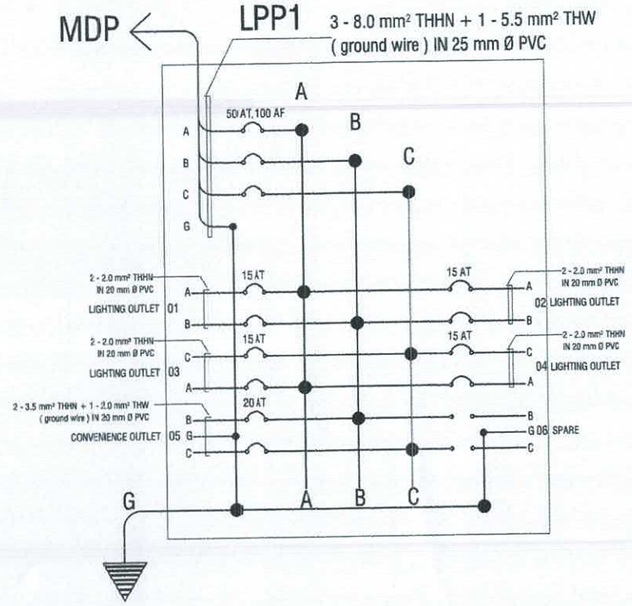
I_{FL} = [(11 x 1.732) x DF =] 15.24 *Amperes*

I_{CB} = [(11 x 1.732) x DF =] 15.24 *Amperes*

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

use: 3 - 8.0 SQMM THHN+ 1 - 5.5 SQMM THW IN 25 MM DIA. PVC
use: 50 AT, 100AF, 3P, 230V,MCCB

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.



PANEL : LPP2 (LIGHTING AND POWER PANEL 2) — **CABLE: 3 - 8.0 SQMM THHN+ 1 - 5.5 SQMM THW** — **CONDUIT: PVC, 25 MM DIA.** — **MAIN: 50 AT, 100 AF, 3P, 230V,MCCB** — **ENCLOSURE : NEMA 1** — **MOUNTING: SURFACE**

PHASE: 3
VOLTS: 230 — **LOCATION: ELECTRICAL ROOM, SECOND FLOOR**

CKT NO.	CIRCUIT DESCRIPTION	NO OF OUTLET	LOAD IN RATING						CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code
			WATTAGE	VOLTAGE	AMPERES 3 ø	AB	CA	BC	CIRCUIT BREAKER RATING	SQ. MM THHN	SQ. MM THW(G)		
1	LIGHTING OUTLET	12	1200	230		5.22			15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1R,1B,G
2	LIGHTING OUTLET	12	1200	230		5.22			15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1R,1B,G
3	LIGHTING OUTLET	27	2700	230			11.74		15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1B,1Y,G
4	LIGHTING OUTLET	11	1100	230			4.78		15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1B,1Y,G
5	CONVENIENCE OUTLET	6	1200	230				5.22	20AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	PVC, 20	1Y,1R,G
6	CONVENIENCE OUTLET	8	1600	230				6.96	20AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	PVC, 20	1Y,1R,G
	SPARE												
	SPARE												
	TOTAL		9000	230	0	10	17	12	50 AT, 3P, 230V, MCCB	3 - 8.0	+ G 5.5	PVC, 25	1R,1B,1Y,G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:

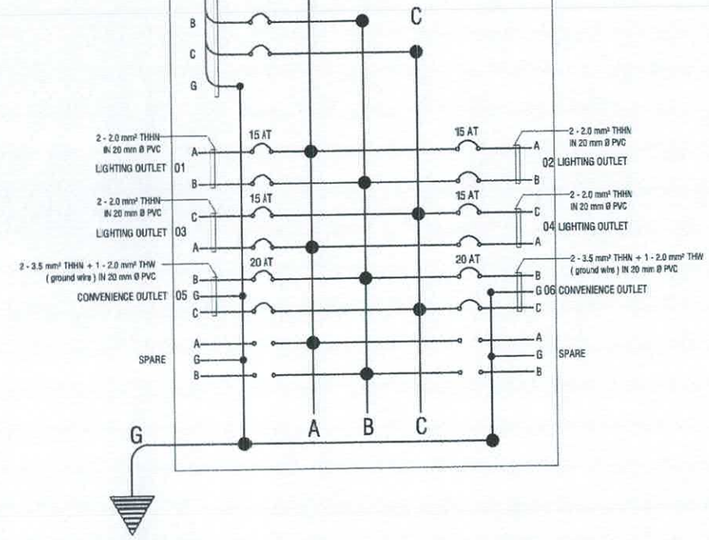
I_{FL} = [(17 x 1.732) x DF =] 23.56 *Amperes*

I_{CB} = [(17 x 1.732) x DF =] 23.56 *Amperes*

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

use: 3 - 8.0 SQMM THHN+ 1 - 5.5 SQMM THW IN 25 MM DIA. PVC
use: 50 AT, 100AF, 3P, 230V,MCCB

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 / E13 — PANEL BOARD DETAILS

SCALE N.T.S

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
R. J. R. SANCHEZ PDU OVPPD	E. J. GALVEZ DEAN COM	R. P. PEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 13

PANEL : LPP3 (LIGHTING AND POWER PANEL 3) — **CABLE: 3 - 8.0 SQMM THHN+ 1 - 5.5 SQMM THW** — **CONDUIT: PVC, 25 MM DIA.**

MAIN: 50 AT, 100 AF, 3P, 230V,MCCB — **ENCLOSURE : NEMA 1** — **MOUNTING: SURFACE**

PHASE: 3

VOLTS: 230 — **LOCATION: ELECTRICAL ROOM, THIRD FLOOR**

CKT NO.	CIRCUIT DESCRIPTION	NO OF OUTLET	LOAD IN RATING						CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code
			WATTAGE	VOLTAGE	AMPERES 3 ø	AB	CA	BC	CIRCUIT BREAKER RATING	SQ. MM THHN	SQ. MM THW(G)		
1	LIGHTING OUTLET	12	1200	230		5.22			15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1R,1B,G
2	LIGHTING OUTLET	27	2700	230		11.74			15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1R,1B,G
3	LIGHTING OUTLET	12	1200	230			5.22		15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1B,1Y,G
4	LIGHTING OUTLET	11	1100	230			4.78		15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1B,1Y,G
5	CONVENIENCE OUTLET	6	1200	230				5.22	20AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	PVC, 20	1Y,1R,G
6	CONVENIENCE OUTLET	8	1600	230				6.96	20AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	PVC, 20	1Y,1R,G
	SPARE												
	SPARE												
	TOTAL		9000	230	0	17	10	12	50 AT, 3P, 230V, MCCB	3 - 8.0	+ G 5.5	PVC, 25	1R,1B,1Y,G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

I_{FL} = [(17 x 1.732) x DF = 23.56 *Amperes*

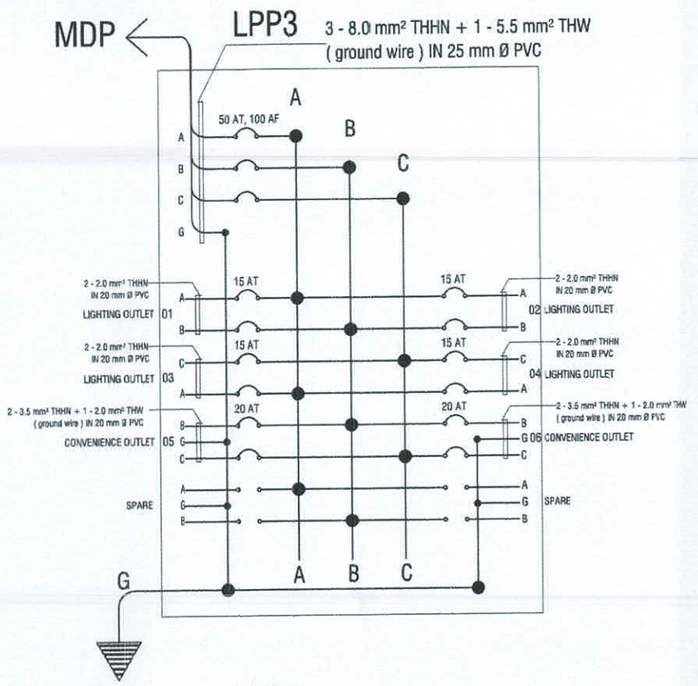
I_{CB} = [(17 x 1.732) x DF = 23.56 *Amperes*

NOTE:

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

use: 3 - 8.0 SQMM THHN+ 1 - 5.5 SQMM THW IN 25 MM DIA. PVC
use: 50 AT, 100AF, 3P, 230V,MCCB

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.



PANEL : LPP4 (LIGHTING AND POWER PANEL 4) — **CABLE: 3 - 8.0 SQMM THHN+ 1 - 5.5 SQMM THW** — **CONDUIT: PVC, 25 MM DIA.**

MAIN: 50 AT, 100 AF, 3P, 230V,MCCB — **ENCLOSURE : NEMA 1** — **MOUNTING: SURFACE**

PHASE: 3

VOLTS: 230 — **LOCATION: ELECTRICAL ROOM, THIRD FLOOR**

CKT NO.	CIRCUIT DESCRIPTION	NO OF OUTLET	LOAD IN RATING						CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code
			WATTAGE	VOLTAGE	AMPERES 3 ø	AB	CA	BC	CIRCUIT BREAKER RATING	SQ. MM THHN	SQ. MM THW(G)		
1	LIGHTING OUTLET	8	800	230		3.48			15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1R,1B,G
2	LIGHTING OUTLET	8	800	230		3.48			15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1R,1B,G
3	LIGHTING OUTLET	9	900	230			3.91		15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1B,1Y,G
4	LIGHTING OUTLET	14	1400	230			6.09		15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1B,1Y,G
5	CONVENIENCE OUTLET	5	1000	230				4.35	20AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	PVC, 20	1Y,1R,G
6	CONVENIENCE OUTLET	5	1000	230				4.35	20AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	PVC, 20	1Y,1R,G
	SPARE												
	SPARE												
	TOTAL		5900	230	0	7	10	9	50 AT, 3P, 230V, MCCB	3 - 8.0	+ G 5.5	PVC, 25	1R,1B,1Y,G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

I_{FL} = [(10 x 1.732) x DF = 13.86 *Amperes*

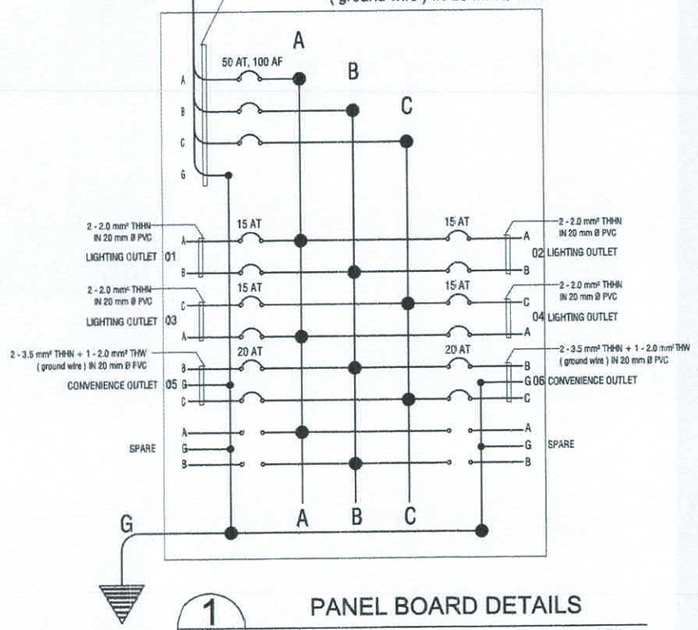
I_{CB} = [(10 x 1.732) x DF = 13.86 *Amperes*

NOTE:

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

use: 3 - 8.0 SQMM THHN+ 1 - 5.5 SQMM THW IN 25 MM DIA. PVC
use: 50 AT, 100AF, 3P, 230V,MCCB

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 / E14 **PANEL BOARD DETAILS**

SCALE NTS

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
R. J. R. SANCHEZ PDU / OVPPD	E. J. GALVEZ DEAN COM	R. P. PEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PDES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY — CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 14

PANEL : ACP 2 (AIR CONDITIONING UNIT PANEL 2) CABLE: 3 - 30.0 SQMM THHN+ 1 - 8.0 SQMM THW — CONDUIT: PVC, 32 MM DIA. — MAIN: 100 AT, 200 AF, 3P, 230V,MCCB — ENCLOSURE : NEMA 1 — MOUNTING: SURFACE

PHASE: 3 — VOLTS: 230 — LOCATION: ELECTRICAL ROOM, SECOND FLOOR

CKT NO.	CIRCUIT DESCRIPTION	NO OF OUTLET	LOAD IN RATING WATTAGE	VOLTAGE	AMPERES 3 ø	AB	CA	BC	CIRCUIT PROTECTION CIRCUIT BREAKER RATING	Size of Conductor SQ. MM THHN	SQ. MM THW(G)	Size Of Conduit in MM ø	Color Code
1	A/C UNIT (2.5 HP)	1	1900	230		15.00			40AT, 2P, 230V, MCCB	2-5.5	+ G 3.5	PVC, 25	1R,1B,G
2	A/C UNIT (2.5 HP)	1	1900	230		15.00			40AT, 2P, 230V, MCCB	2-5.5	+ G 3.5	PVC, 25	1R,1B,G
3	A/C UNIT (2.5 HP)	1	1900	230			15.00		40AT, 2P, 230V, MCCB	2-5.5	+ G 3.5	PVC, 25	1B,1Y,G
4	A/C UNIT (2.5 HP)	1	1900	230			15.00		40AT, 2P, 230V, MCCB	2-5.5	+ G 3.5	PVC, 25	1B,1Y,G
5	A/C UNIT (2.5 HP)	1	1900	230				15.00	40AT, 2P, 230V, MCCB	2-5.5	+ G 3.5	PVC, 25	1Y,1R,G
6	A/C UNIT (2.5 HP)	1	1900	230				15.00	40AT, 2P, 230V, MCCB	2-5.5	+ G 3.5	PVC, 25	1Y,1R,G
	SPARE												
	SPARE												
	TOTAL		11400	230	0	30	30	30	100 AT, 3P, 230V, MCCB	3 - 30.0	+ G 8.0	PVC, 32	1R,1B,1Y,G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:

I_{FL} = [(30 x 1.732)) + (125% x Im)] x DF = 70.71 Amperes

I_{CB} = [(30 x 1.732)) + (250% x Im)] x DF = 89.46 Amperes

G - Means Ground Wire
1R- Color RED — use: 3 - 30.0 SQMM THHN+ 1 - 8.0 SQMM THW IN 32 MM DIA. PVC
1B- Color BLACK — use: 100 AT, 200AF, 3P, 230V,MCCB
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.

PANEL : ACP 3 (AIR CONDITIONING UNIT PANEL 3) CABLE: 3 - 30.0 SQMM THHN+ 1 - 8.0 SQMM THW — CONDUIT: PVC, 32 MM DIA. — MAIN: 100 AT, 200 AF, 3P, 230V,MCCB — ENCLOSURE : NEMA 1 — MOUNTING: SURFACE

PHASE: 3 — VOLTS: 230 — LOCATION: ELECTRICAL ROOM, THIRD FLOOR

CKT NO.	CIRCUIT DESCRIPTION	NO OF OUTLET	LOAD IN RATING WATTAGE	VOLTAGE	AMPERES 3 ø	AB	CA	BC	CIRCUIT PROTECTION CIRCUIT BREAKER RATING	Size of Conductor SQ. MM THHN	SQ. MM THW(G)	Size Of Conduit in MM ø	Color Code
1	A/C UNIT (2.5 HP)	1	1900	230		15.00			40AT, 2P, 230V, MCCB	2-5.5	+ G 3.5	PVC, 25	1R,1B,G
2	A/C UNIT (2.5 HP)	1	1900	230		15.00			40AT, 2P, 230V, MCCB	2-5.5	+ G 3.5	PVC, 25	1R,1B,G
3	A/C UNIT (2.5 HP)	1	1900	230			15.00		40AT, 2P, 230V, MCCB	2-5.5	+ G 3.5	PVC, 25	1B,1Y,G
4	A/C UNIT (2.5 HP)	1	1900	230			15.00		40AT, 2P, 230V, MCCB	2-5.5	+ G 3.5	PVC, 25	1B,1Y,G
5	A/C UNIT (2.5 HP)	1	1900	230				15.00	40AT, 2P, 230V, MCCB	2-5.5	+ G 3.5	PVC, 25	1Y,1R,G
6	A/C UNIT (2.5 HP)	1	1900	230				15.00	40AT, 2P, 230V, MCCB	2-5.5	+ G 3.5	PVC, 25	1Y,1R,G
	SPARE												
	SPARE												
	TOTAL		11400	230	0	30	30	30	100 AT, 3P, 230V, MCCB	3 - 30.0	+ G 8.0	PVC, 32	1R,1B,1Y,G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:

I_{FL} = [(30 x 1.732)) + (125% x Im)] x DF = 70.71 Amperes

I_{CB} = [(30 x 1.732)) + (250% x Im)] x DF = 89.46 Amperes

G - Means Ground Wire
1R- Color RED — use: 3 - 30.0 SQMM THHN+ 1 - 8.0 SQMM THW IN 32 MM DIA. PVC
1B- Color BLACK — use: 100 AT, 200AF, 3P, 230V,MCCB
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.

PANEL : ACP 4 (AIR CONDITIONING UNIT PANEL 4) CABLE: 3 - 80.0 SQMM THHN+ 1 - 22.0 SQMM THW — CONDUIT: PVC, 50 MM DIA. — MAIN: 200 AT, 300 AF, 3P, 230V,MCCB — ENCLOSURE : NEMA 1 — MOUNTING: SURFACE

PHASE: 3 — VOLTS: 230 — LOCATION: ELECTRICAL ROOM, THIRD FLOOR

CKT NO.	CIRCUIT DESCRIPTION	NO OF OUTLET	LOAD IN RATING WATTAGE	VOLTAGE	AMPERES 3 ø	AB	CA	BC	CIRCUIT PROTECTION CIRCUIT BREAKER RATING	Size of Conductor SQ. MM THHN	SQ. MM THW(G)	Size Of Conduit in MM ø	Color Code
1	A/C UNIT (6 HP)	1	5500	230	18				50AT, 3P, 230V, MCCB	3 - 8.0	+ G 5.5	PVC, 25	1R,1B,1Y,G
2	A/C UNIT (6 HP)	1	5500	230	18				50AT, 3P, 230V, MCCB	3 - 8.0	+ G 5.5	PVC, 25	1R,1B,1Y,G
3	A/C UNIT (6 HP)	1	5500	230	18				50AT, 3P, 230V, MCCB	3 - 8.0	+ G 5.5	PVC, 25	1R,1B,1Y,G
4	A/C UNIT (6 HP)	1	5500	230	18				50AT, 3P, 230V, MCCB	3 - 8.0	+ G 5.5	PVC, 25	1R,1B,1Y,G
5	A/C UNIT (6 HP)	1	5500	230	18				50AT, 3P, 230V, MCCB	3 - 8.0	+ G 5.5	PVC, 25	1R,1B,1Y,G
6	A/C UNIT (6 HP)	1	5500	230	18				50AT, 3P, 230V, MCCB	3 - 8.0	+ G 5.5	PVC, 25	1R,1B,1Y,G
7	A/C UNIT (6 HP)	1	5500	230	18				50AT, 3P, 230V, MCCB	3 - 8.0	+ G 5.5	PVC, 25	1R,1B,1Y,G
8	A/C UNIT (6 HP)	1	5500	230	18				50AT, 3P, 230V, MCCB	3 - 8.0	+ G 5.5	PVC, 25	1R,1B,1Y,G
	SPARE												
	SPARE												
	TOTAL		44000	230	144	0	0	0	200 AT, 3P, 230V, MCCB	3 - 80.0	+ G 22.0	PVC, 50	1R,1B,1Y,G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

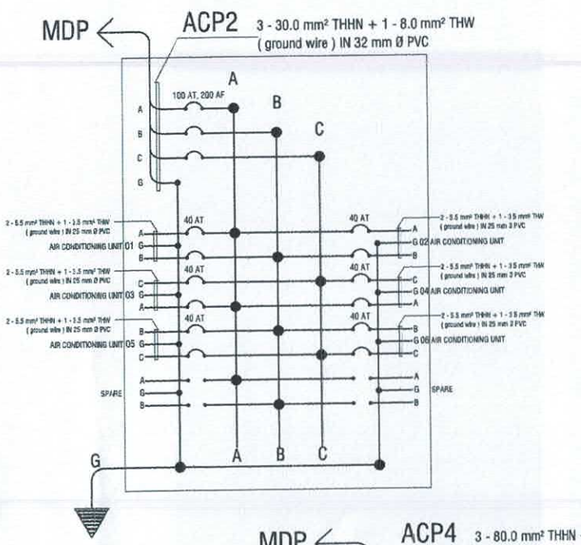
NOTE:

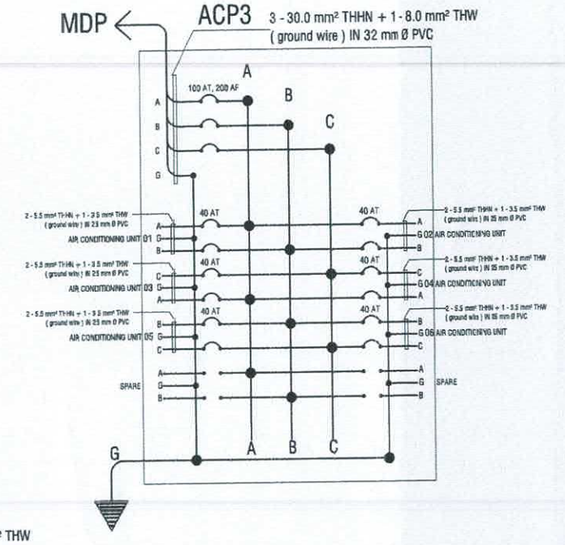
I_{FL} = [144 + (125% x Im)] x DF = 166.50 Amperes

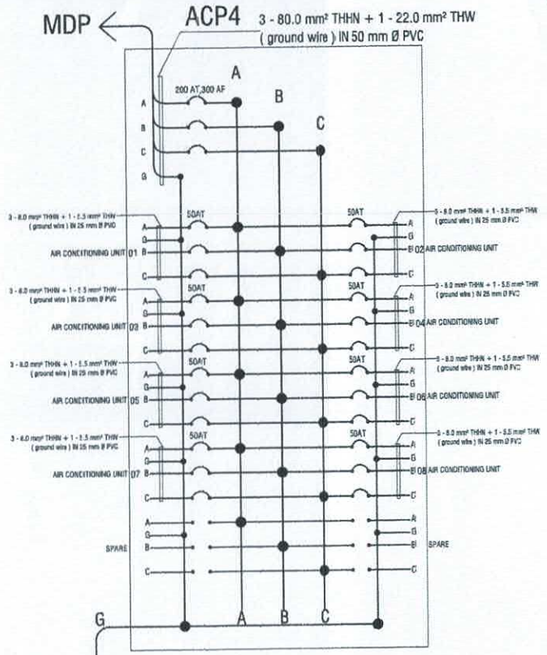
I_{CB} = [144 + (250% x Im)] x DF = 189.00 Amperes

G - Means Ground Wire
1R- Color RED — use: 3 - 80.0 SQMM THHN+ 1 - 22.0 SQMM THW IN 50 MM DIA. PVC
1B- Color BLACK — use: 200 AT, 300AF, 3P, 230V,MCCB
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 / E15 PANEL BOARD DETAILS

SCALE NTS

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
R. J. R. SANCHEZ PDU CVSU PPD	E. J. GALVEZ DEAN COM	R. P. PEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	A. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 15

PANEL : SPP1 (SPECIAL POWER PANEL 1) **CABLE: 3 - 80.0 SQMM THHN+ 1 - 22.0 SQMM THW** **MAIN: 200 AT, 300 AF, 3P, 230V,MCCB**

CONDUIT: PVC, 50 MM DIA. **ENCLOSURE : NEMA 1**

PHASE: 3 **MOUNTING: SURFACE**

VOLTS: 230 **LOCATION: ELECTRICAL ROOM, THIRD FLOOR**

CKT NO.	CIRCUIT DESCRIPTION	NO OF OUTLET	LOAD IN RATING						CIRCUIT PROTECTION	Size of Conductor			Size Of Conduit In MM ø	Color Code
			WATTAGE	VOLTAGE	AMPERES				CIRCUIT BREAKER RATING	SQ. MM THHN		SQ. MM THW(G)		
					3 ø	AB	CA	BC						
1	SPECIAL POWER OUTLET	1	3000	230		13.04			20AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1R,1B,G
2	SPECIAL POWER OUTLET	1	3000	230		13.04			20AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1R,1B,G
3	SPECIAL POWER OUTLET	1	3000	230			13.04		20AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1B,1Y,G
4	SPECIAL POWER OUTLET	1	3000	230			13.04		20AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1B,1Y,G
5	SPECIAL POWER OUTLET	1	3000	230				13.04	20AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1Y,1R,G
6	SPECIAL POWER OUTLET	1	3000	230				13.04	20AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1Y,1R,G
7	SPECIAL POWER OUTLET	1	3000	230		13.04			20AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1R,1B,G
8	SPECIAL POWER OUTLET	1	3000	230		13.04			20AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1R,1B,G
9	SPECIAL POWER OUTLET	1	3000	230			13.04		20AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1B,1Y,G
10	SPECIAL POWER OUTLET	1	3000	230			13.04		20AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1B,1Y,G
11	SPECIAL POWER OUTLET	1	3000	230				13.04	20AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1Y,1R,G
12	SPECIAL POWER OUTLET	1	3000	230				13.04	20AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1Y,1R,G
13	3 PHASE POWER OUTLET	1	5000	230	22				50AT, 3P, 230V, MCCB	3 - 14.0	+	G 8.0	PVC, 25	1R,1B,1Y,G
14	3 PHASE POWER OUTLET	1	5000	230	22				50AT, 3P, 230V, MCCB	3 - 14.0	+	G 8.0	PVC, 25	1R,1B,1Y,G
15	3 PHASE POWER OUTLET	1	5000	230	22				50AT, 3P, 230V, MCCB	3 - 14.0	+	G 8.0	PVC, 25	1R,1B,1Y,G
	SPACE													
	SPACE													
	TOTAL		51000	230	66	52	52	52	200 AT, 3P, 230V, MCCB	3 - 80.0	+	G 22.0	PVC, 50	1R,1B,1Y,G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:

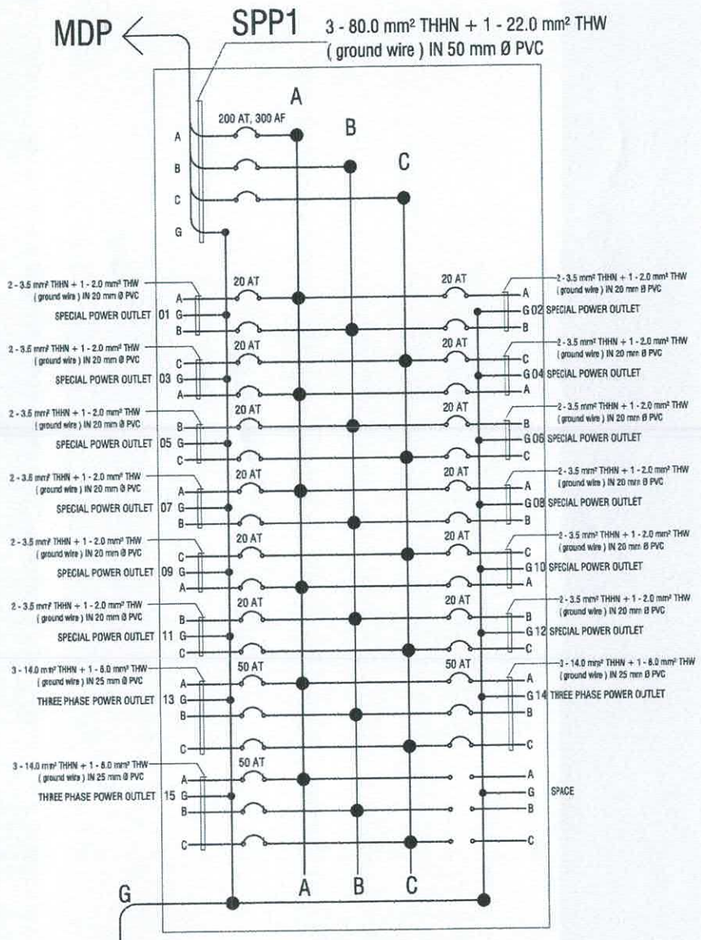
I_{FL} = [(66 + (52 x 1.732))] x DF = 156.06 *Amperes*

I_{CB} = [(66 + (52 x 1.732))] x DF = 156.06 *Amperes*

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

use: 3 - 80.0 SQMM THHN+ 1 - 22.0 SQMM THW IN 50 MM DIA. PVC
use: 200 AT, 300AF, 3P, 230V,MCCB

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 / E 16 PANEL BOARD DETAILS

SCALE NTS

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
R. J. R. SANCHEZ PDU / OVPPD	E. J. GALVEZ DEAN COM	R. P. PEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY — CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 16

PANEL : MDP (MAIN DISTRIBUTION PANEL) **CABLE: 3 - 2 - 175.0 SQMM THHN+ 3 - 80.0 SQMM THW** **MAIN: 600 AT, 700AF, 3P, 230V,MCCB**

CONDUIT: RSC, 3-80 MM DIA. **ENCLOSURE : NEMA 1**

PHASE: 3 **MOUNTING: SURFACE**

VOLTS: 230 **LOCATION: ELECTRICAL ROOM, GROUND FLOOR**

CKT NO.	CIRCUIT DESCRIPTION	PANEL	LOAD IN RATING						CIRCUIT PROTECTION	Size of Conductor			Size Of Conduit In MM ø	Color Code
			Volt- Amp	VOLT	AMPERES				CIRCUIT BREAKER RATING	SQ. MM THHN		SQ. MM THW(G)		
					3 ø	AB	CA	BC						
1	LIGHTING AND POWER PANEL 1	LPP1	6700	230	0	11	11	7	50 AT, 3P, 230V, MCCB	3 - 8.0	+	G 5.5	PVC, 25	1R,1B,1Y,G
2	LIGHTING AND POWER PANEL 2	LPP2	9000	230	0	10	17	12	50 AT, 3P, 230V, MCCB	3 - 8.0	+	G 5.5	PVC, 25	1R,1B,1Y,G
3	LIGHTING AND POWER PANEL 3	LPP3	9000	230	0	17	10	12	50 AT, 3P, 230V, MCCB	3 - 8.0	+	G 5.5	PVC, 25	1R,1B,1Y,G
4	LIGHTING AND POWER PANEL 4	LPP4	5900	230	0	7	10	9	50 AT, 3P, 230V, MCCB	3 - 8.0	+	G 5.5	PVC, 25	1R,1B,1Y,G
5	AIR CONDITIONING UNIT PANEL 2	ACP2	11400	230	0	30	30	30	100 AT, 3P, 230V, MCCB	3 - 30.0	+	G 8.0	PVC, 32	1R,1B,1Y,G
6	AIR CONDITIONING UNIT PANEL 3	ACP3	11400	230	0	30	30	30	100 AT, 3P, 230V, MCCB	3 - 30.0	+	G 8.0	PVC, 32	1R,1B,1Y,G
7	AIR CONDITIONING UNIT PANEL 4	ACP4	44000	230	144	0	0	0	200 AT, 3P, 230V, MCCB	3 - 80.0	+	G 22.0	PVC, 50	1R,1B,1Y,G
8	SPECIAL POWER PANEL 1	SPP1	51000	230	66	52	52	52	200 AT, 3P, 230V, MCCB	3 - 80.0	+	G 22.0	PVC, 50	1R,1B,1Y,G
9	ELEVATOR PANEL	ELP	7460	230	28				50 AT, 3P, 230V, MCCB	3 - 14.0	+	G 8.0	PVC, 25	1R,1B,1Y,G
10	FIRE DETECTION ALARM SYSTEM	FDAS	500	230	0	2			15 AT, 3P, 230V, MCCB	2 - 2.0			PVC, 20	1R,1B
11	BOOSTER PUMP PANEL 1.0 HP	WPP	2300	230	0		8.00		40 AT, 3P, 230V, MCCB	2 - 8.0	+	G 5.5	PVC, 25	1B, 1Y,G
12	WATER PUMP PANEL 3.0 HP	WPP	2300	230	0			17.00	40 AT, 3P, 230V, MCCB	2 - 8.0	+	G 5.5	PVC, 25	1Y,1R,G
	SPARE													
	SPARE													
	TOTAL		160960	230	238	159	168	169	600AT, 3P, 230V, MCCB	3 -2- 175.0	+	G 3-80.0	RSC, 3-80	1R,1B,1Y, G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:

I_{FL} = [(238 + (169 x 1.732))] x DF = 530.71 *Amperes*

I_{CB} = [(238 + (169 x 1.732))] x DF = 530.71 *Amperes*

G - Means Ground Wire

1R- Color RED ***use: 3 - 2 -175.0 SQMM THHN+ 3-80.0 SQMM THW IN 3 - 80 MM DIA. RSC***

1B- Color BLACK ***use: 600 AT, 700AF, 3P, 230V,MCCB***

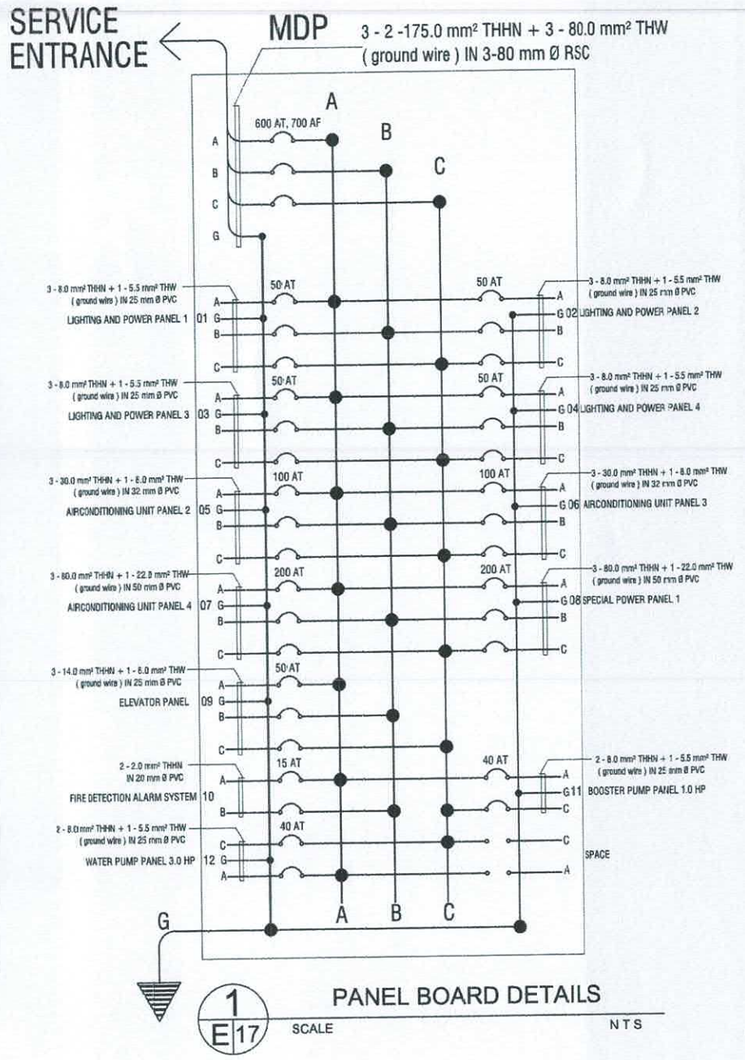
1Y- Color YELLOW

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,

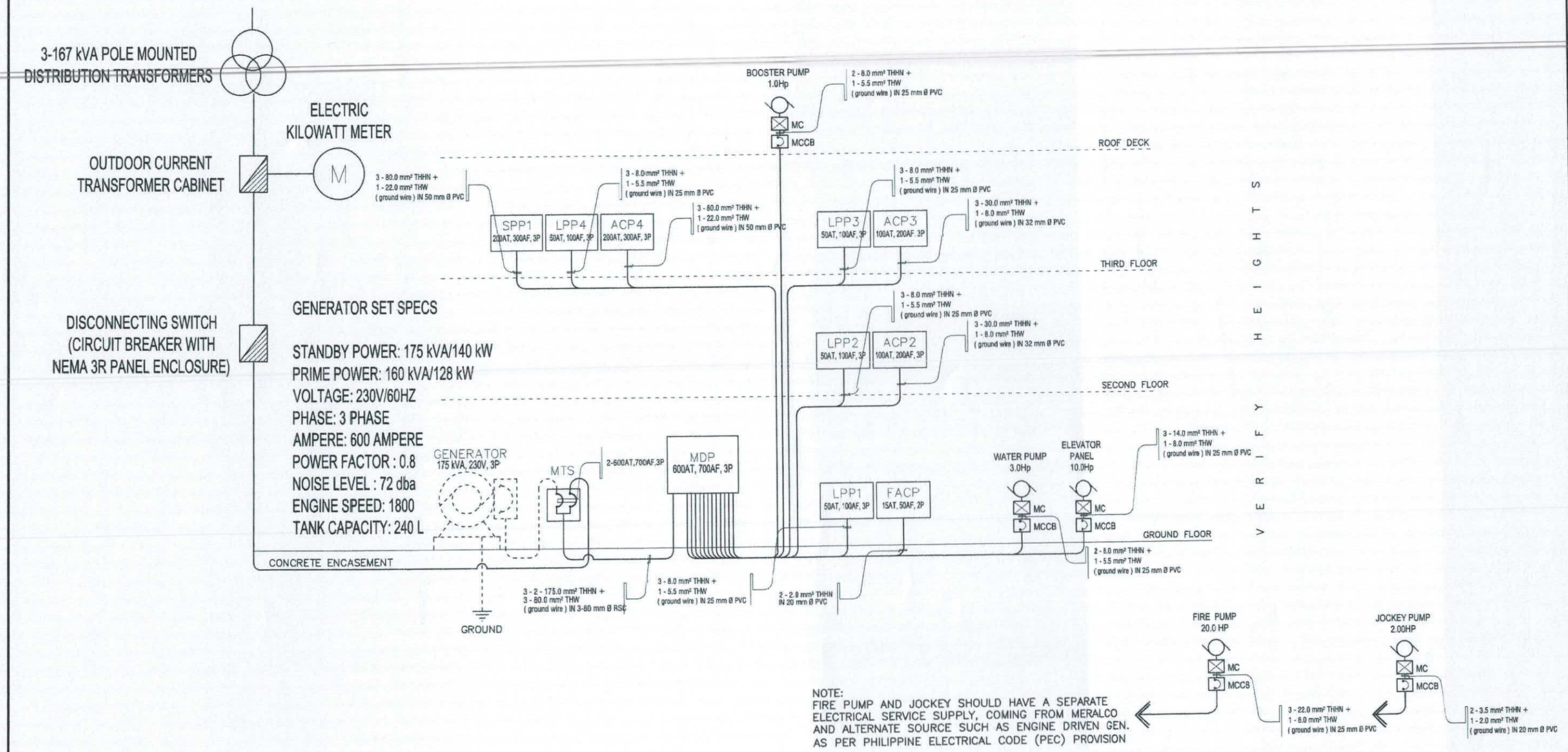
Except redesign of electrical load system will be done.



1 / E 17 PANEL BOARD DETAILS

SCALE NTS

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
R. J. R. SANCHEZ PDU OVPPD	E. J. GALVEZ DEAN COM	R. P. VERA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 17

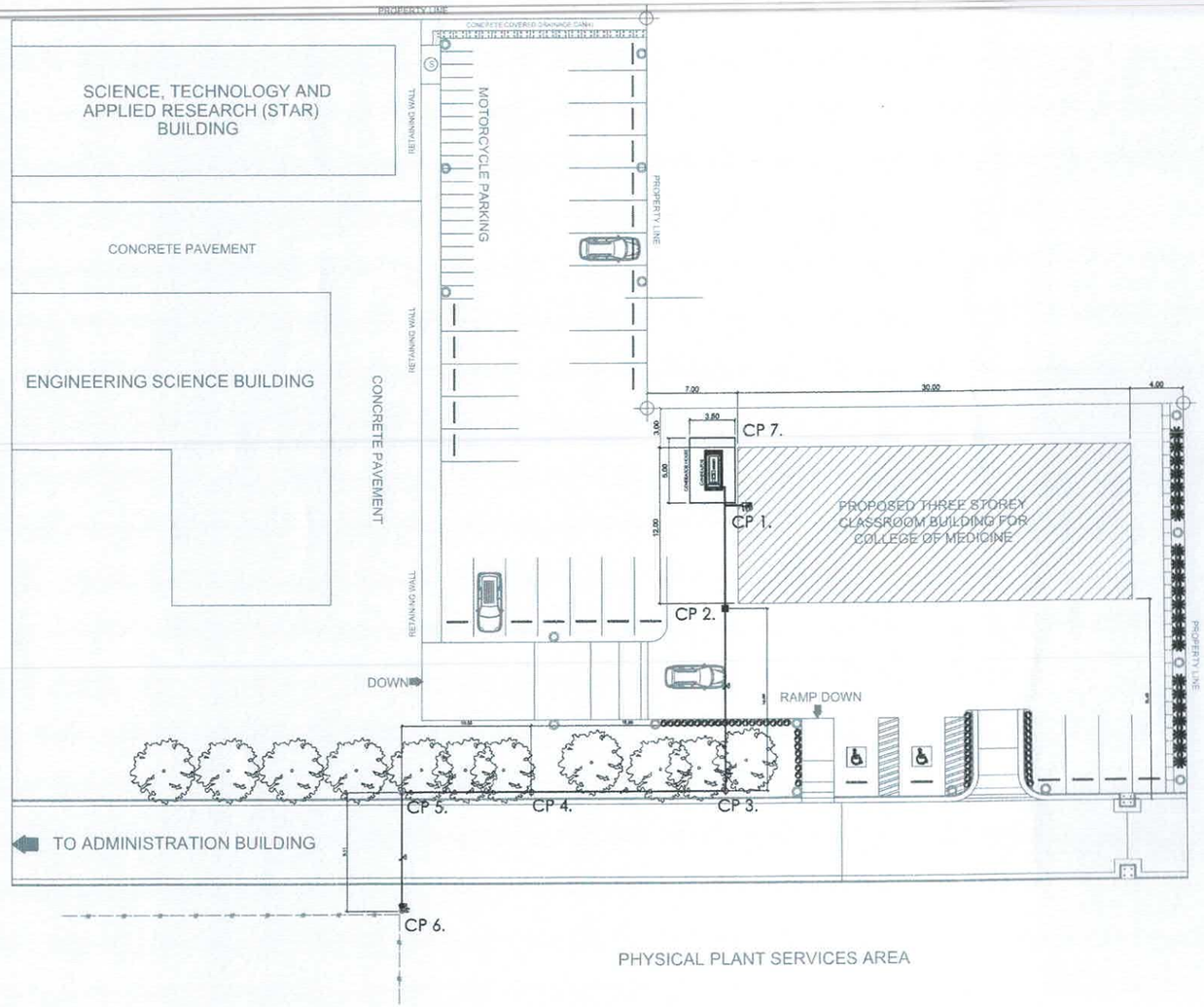


SINGLE LINE DIAGRAM

1 / E 18

SCALE NTS

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
R. J. R. SANCHEZ PDU / OVPPD	E. J. GALVEZ DEAN COM	R. P. HERA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPAS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY — CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 18



LEGEND AND SYMBOL:	
○	CONCRETE POLE
⊕	STEEL POLE
3	230 V SECONDARY WIRE
MDP	PANEL BOARD
	DISTRIBUTION TRANSFORMER
■	SERVICE ENTRANCE CONCRETE PEDESTAL
	CONCRETE ENCASEMENT CONDUIT RACEWAY
	13.8 kV PRIMARY WIRE 3 LINE WIRE

CONSTRUCTION POINTS:

CP 1.
SUPPLY AND INSTALL-
THHN copper conductor wires from MDP (CP 1) to newly installed distribution transformers (CP 6). See schedule of loads for the proper wire size.

CP 2.
SUPPLY AND INSTALL -
New service entrance concrete pedestal with conduit pipes and secondary accessories (see E-10 for details).

CP 3. AND CP 4.
SUPPLY AND INSTALL -
2 set of secondary steel post with secondary line accessories (see E-10 for details).

CP 5.
SUPPLY AND INSTALL -
Secondary line accessories on existing concrete pole.

CP 6.
SUPPLY AND INSTALL -
1-13.5m Concrete pole (Tandem pole), Class 3A, complete with pole dressing, insulators, pole grounding, support guying and accessories. Include tapping to existing primary lines, energization, testing and commissioning.

REMOVE AND REPLACE -
Dismantling of existing 3-100 kVA DTs and replace with new 13.8 kV, 3-167 kVA DTs.
Include re-tapping of all existing secondary load to newly installed 3-167 kVA DTs (Provide necessary conductor wires and connectors for the re-tapping).

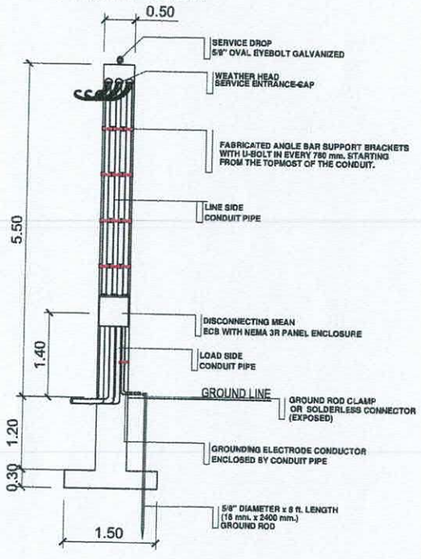
CP 7.
SUPPLY AND INSTALL-
GENERATOR SET INCLUDING ITS HOUSING. SEE E-8 FOR THE SPECS OF GENERATOR AND E-11 FOR THE DETAILS OF GENERATOR HOUSE.

1 / E 19 ELECTRICAL SERVICE LINE LAYOUT

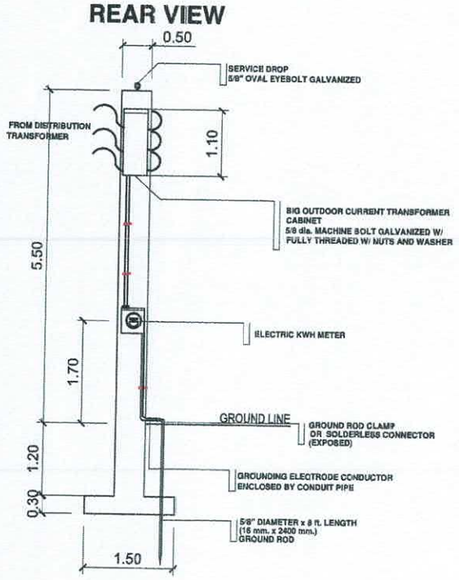
SCALE 1 : 250 MTS.

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
R. J. R. SANCHEZ PDU / OVPPD	E. J. GALVEZ DEAN COM	R. P. VEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY — CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 19

FRONT VIEW



REAR VIEW



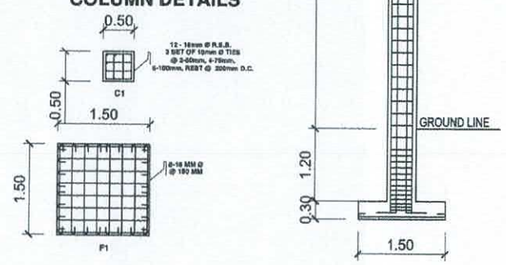
1 / E 20 SERVICE ENTRANCE CONCRETE PEDESTAL DETAILS
SCALE 1:40

SCHEDULE OF FOOTINGS

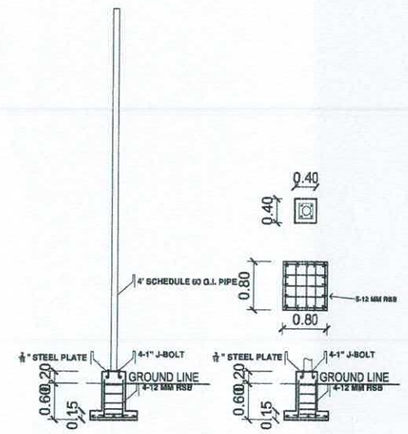
NAME	TYPE	THICKNESS	SIZE (LxW)	DEPTH	REINFORCEMENT	
					BOTTOM	
					ALONG L	ALONG W
F1	ISOLATED	300 MM	1500 x 1500 MM	1500 MM	8-16 MM Ø @ 187 MM	8-16 MM Ø @ 180 MM

COLUMN	DIMENSION	REINFORCEMENT	NO. OF TIES & SPACING
C1	500 MM X 500 MM	12 - 16mm Ø R.S.B.	3 SET OF 10mm Ø TIES @ 2-80mm, 4-75mm, 8-100mm, REST @ 200mm O.C.

COLUMN DETAILS



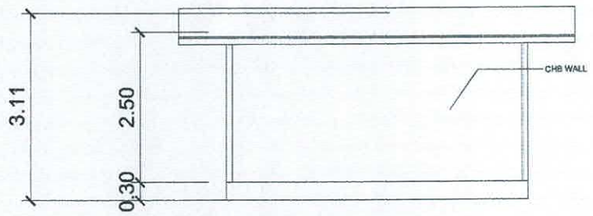
2 / E 20 SERVICE ENTRANCE CONCRETE PEDESTAL (COLUMN AND FOOTING DETAILS)
SCALE 1:40



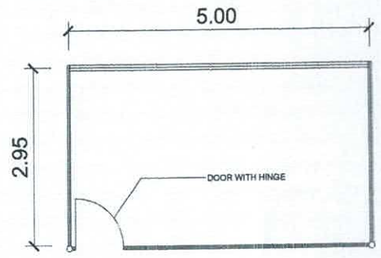
3 / E 20 STEEL POST AND PEDESTAL DETAILS
SCALE 1:40

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
R. J. R. SANCHEZ PDU OVPPD	E. J. GALVEZ DEAN COM	R. P. PEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 20

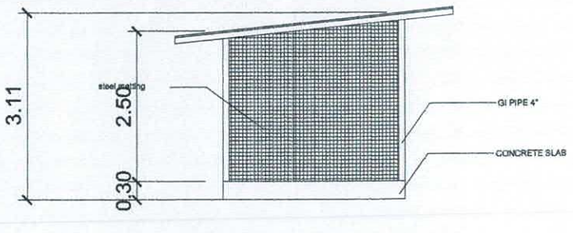
GENERATOR SET HOUSING



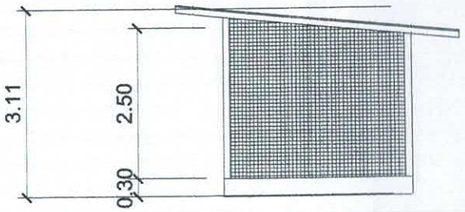
2 / E 21 REAR ELEVATION
SCALE 1 : 40



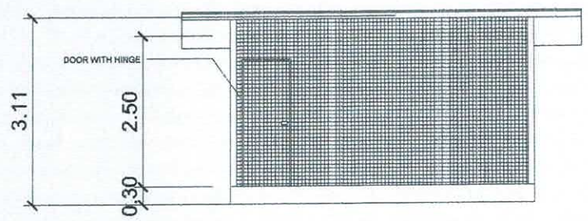
1 / E 21 FLOOR PLAN
SCALE 1 : 40



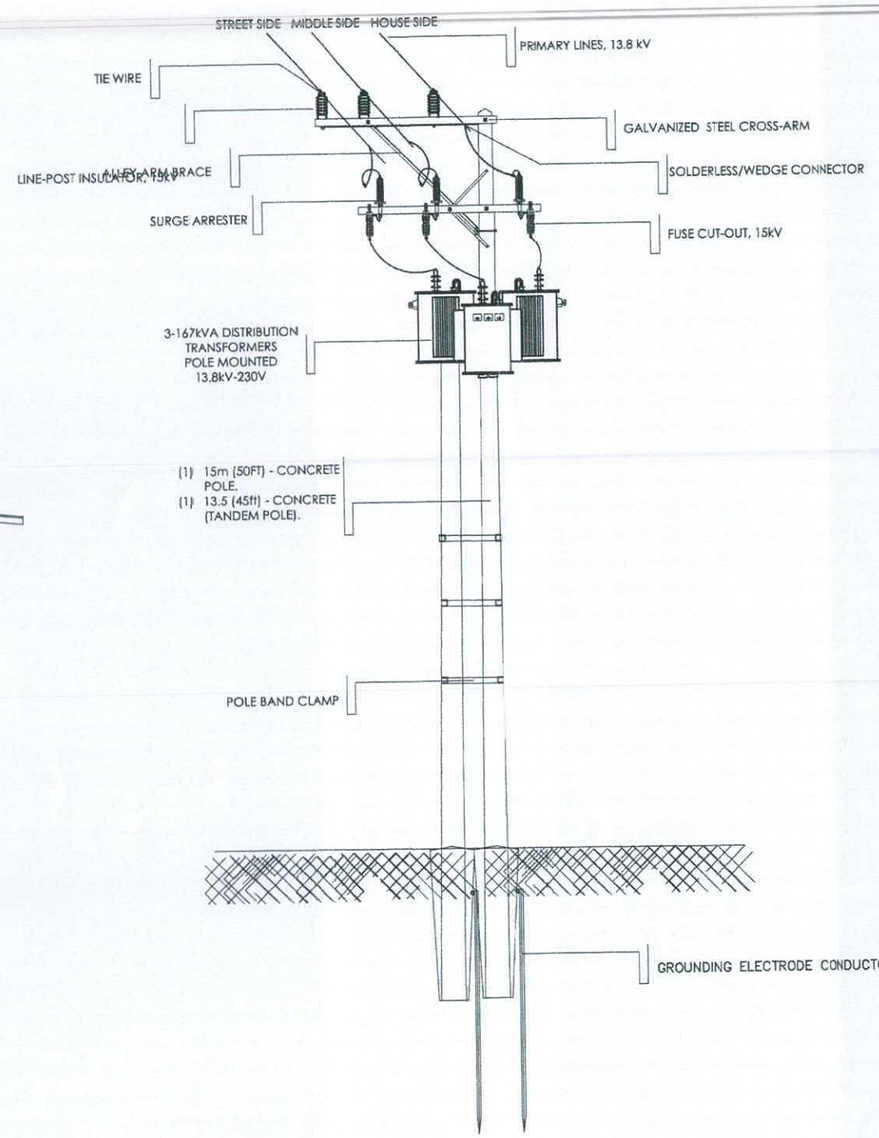
3 / E 21 LEFT SIDE ELEVATION
SCALE 1 : 40



4 / E 21 RIGHT SIDE ELEVATION
SCALE 1 : 40

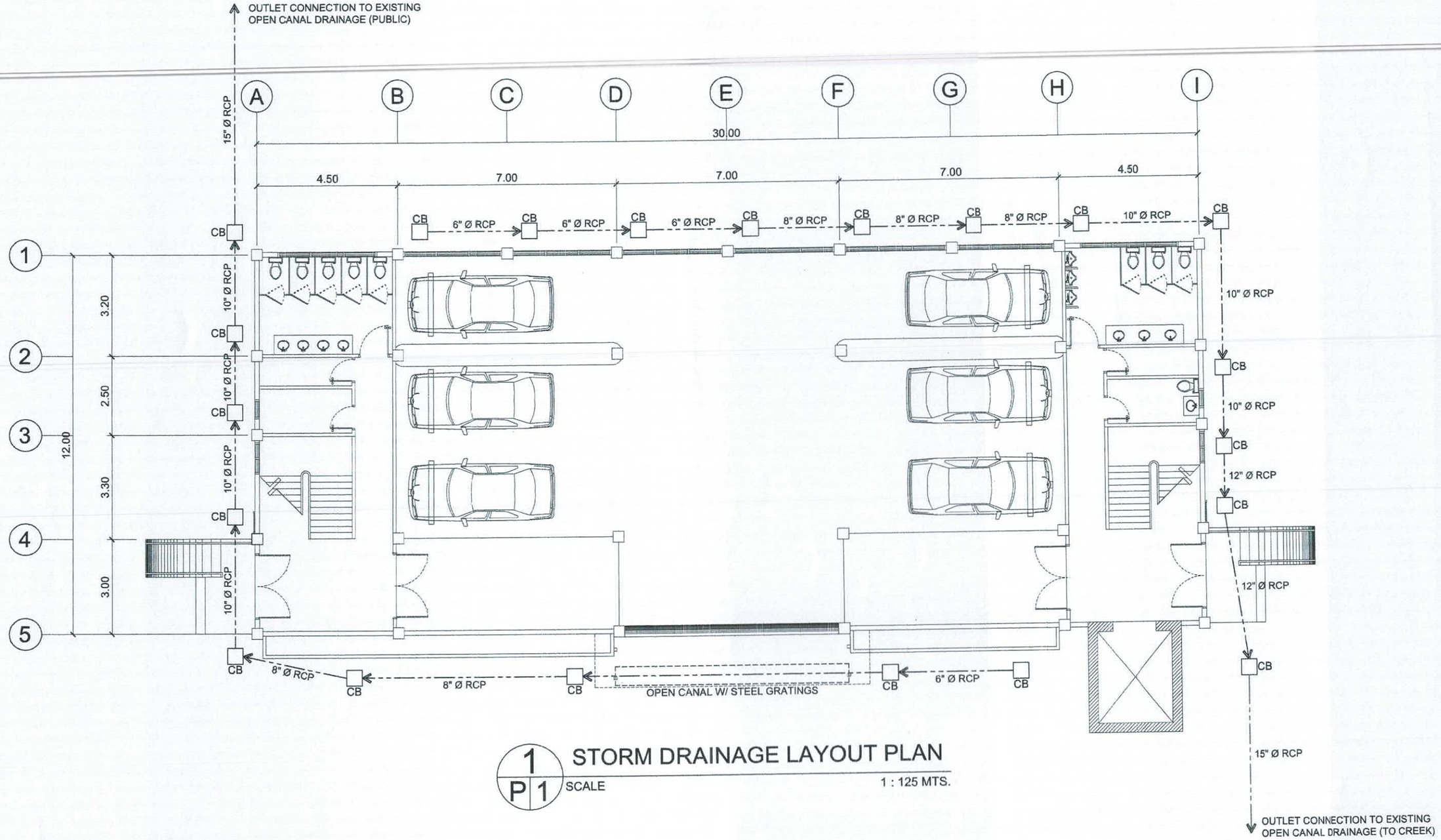


5 / E 21 FRONT ELEVATION
SCALE 1 : 40



6 / E 21 PRIMARY POLE AND ASSEMBLY DETAILS
SCALE NTS

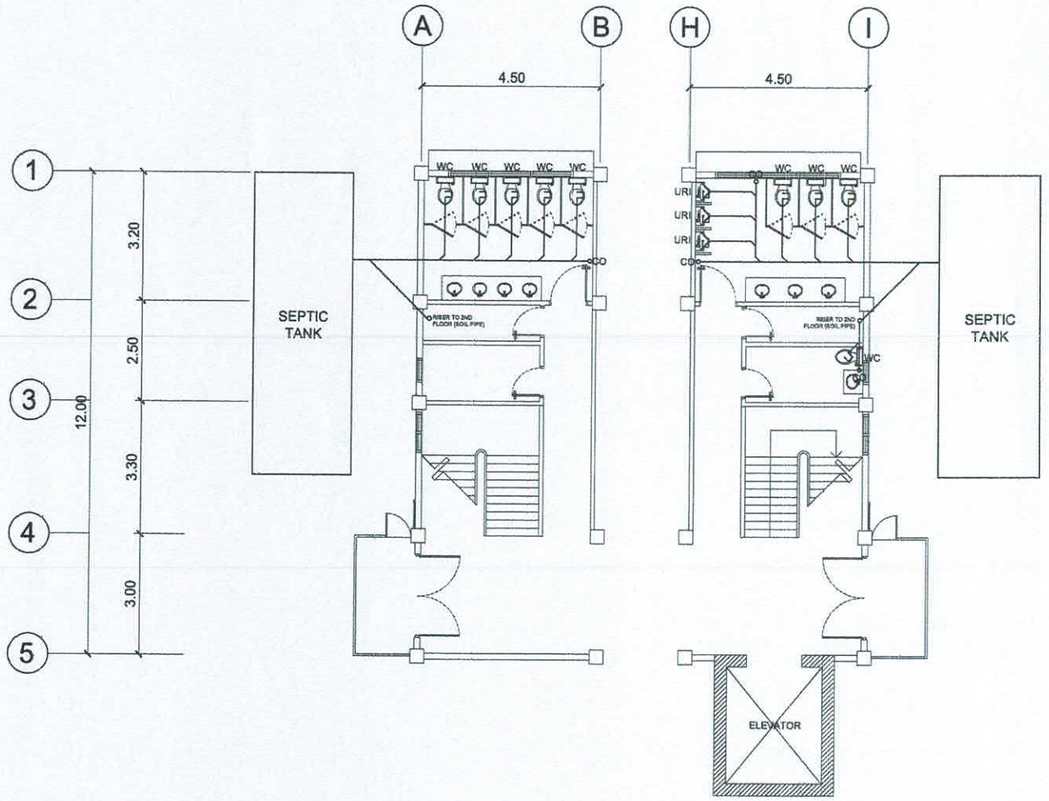
PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
R. J. R. SANCHEZ PDU CVPPD	E. J. GALVEZ DEAN COM	R. P. PEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 21



1 / P 1 STORM DRAINAGE LAYOUT PLAN

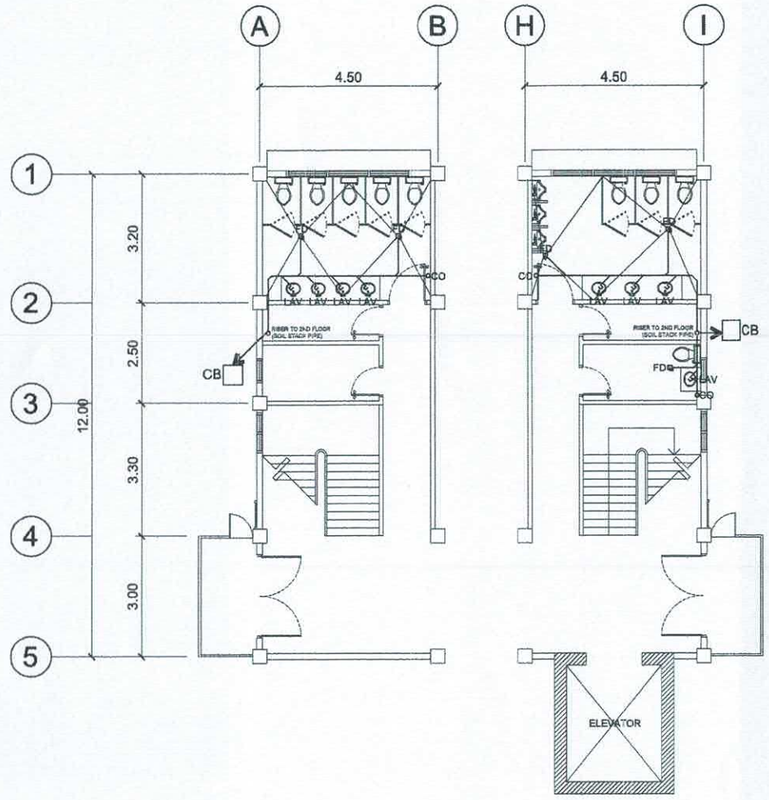
SCALE 1 : 125 MTS.

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU J. X. B. NEPOMUCENO VPASS CVSU	A. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	P - 1



1 P 2 GROUND FLOOR SANITARY SEWER LINE LAYOUT

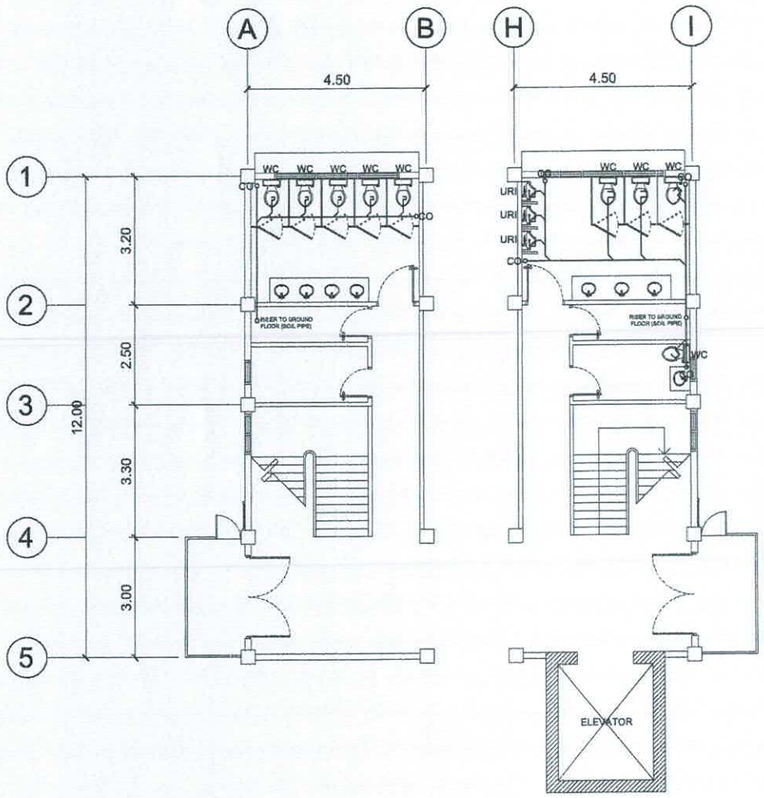
SCALE 1 : 150 MTS.



2 P 2 GROUND FLOOR SEWER LINE DRAINAGE LAYOUT

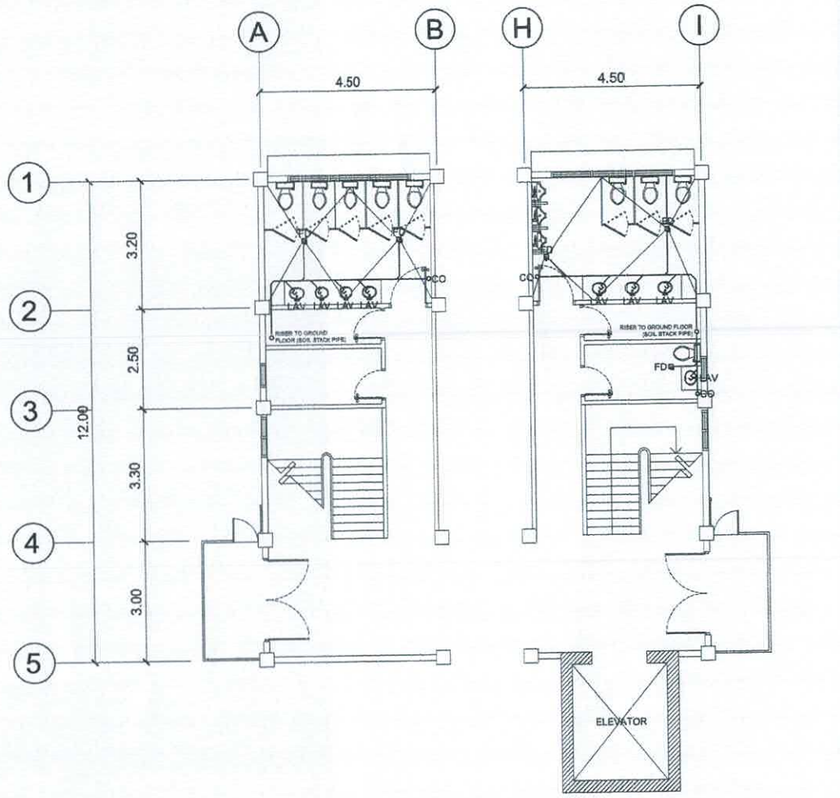
SCALE 1 : 150 MTS.

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU; J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES RDES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY — CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	P - 2



1 P 3 TYP. 2ND & 3RD FLOOR SANITARY SEWER LAYOUT

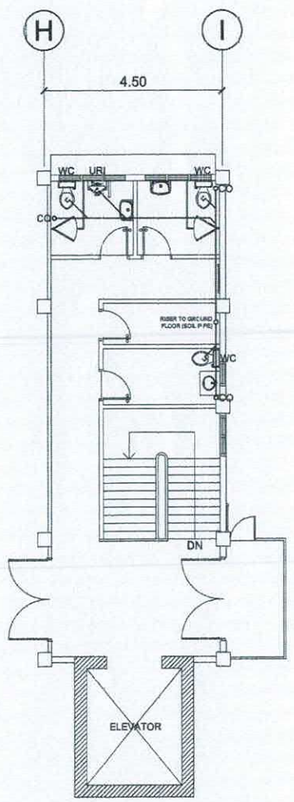
SCALE 1 : 150 MTS.



2 P 3 TYP. 2ND & 3RD FLOOR SEWER LINE DRAINAGE LAYOUT

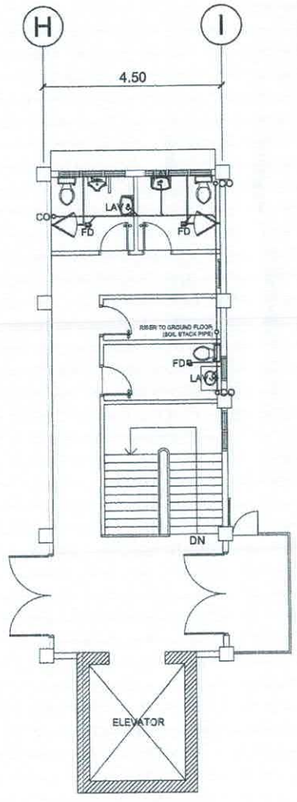
SCALE 1 : 150 MTS.

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM		S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	A. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	P - 3



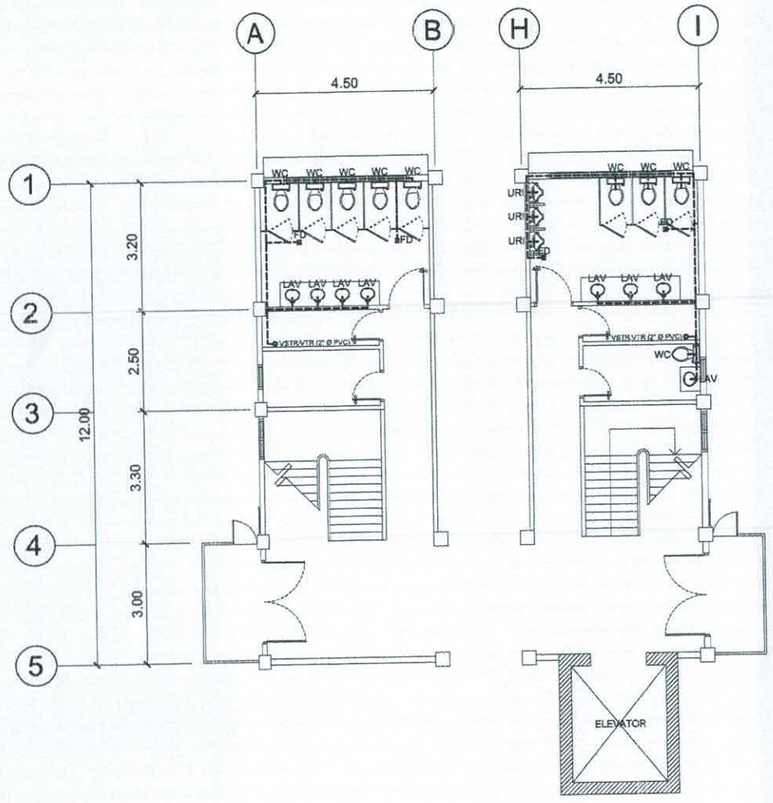
1/P4 ROOF DECK SANITARY SEWER LAYOUT

SCALE 1 : 150 MTS.



2/P4 ROOF DECK SEWER LINE DRAINAGE LAYOUT

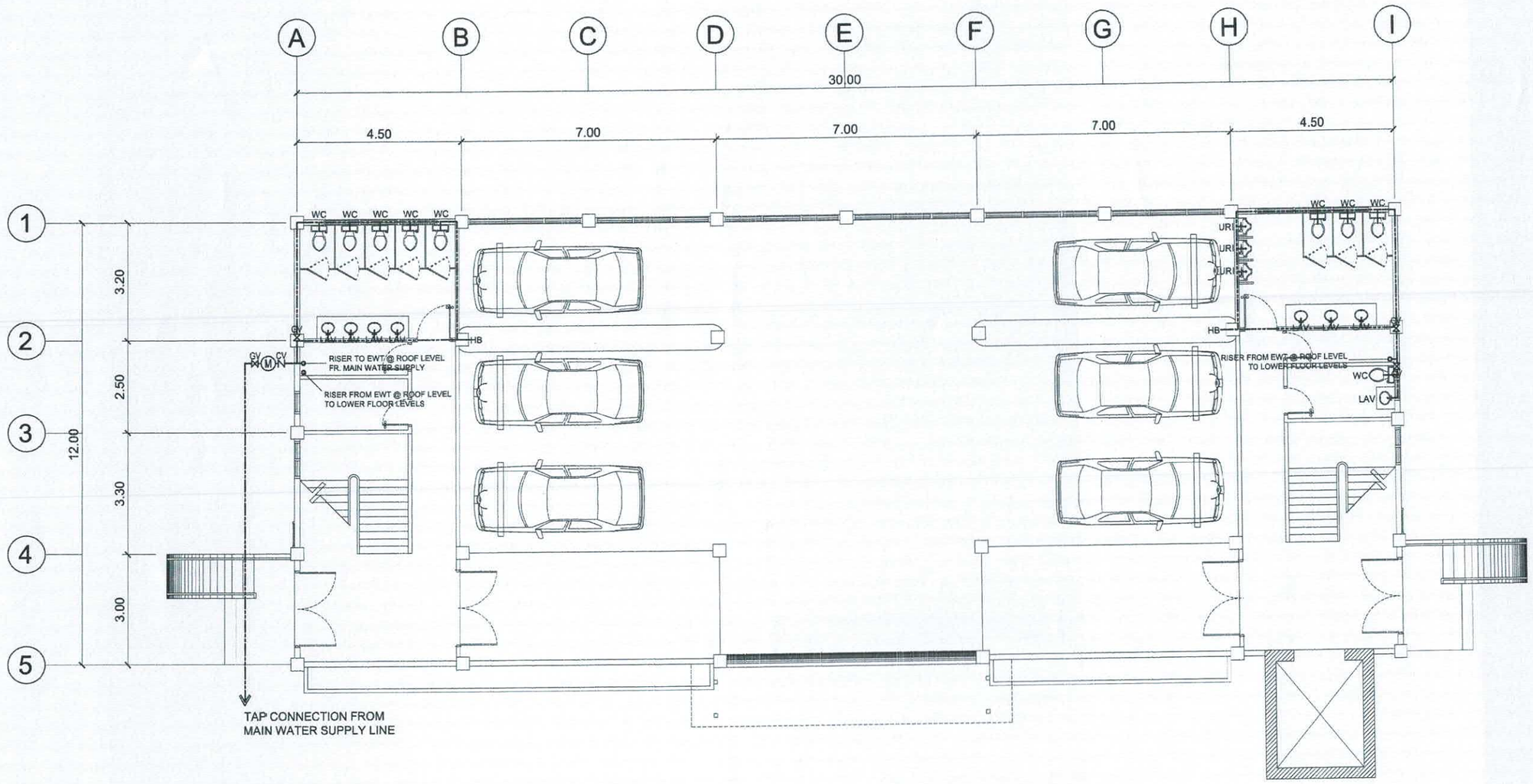
SCALE 1 : 150 MTS.



3/P4 VENTILATION LINE LAYOUT (TYPICAL PLAN)

SCALE 1 : 150 MTS.

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	P - 4



1/P5 GROUND FLOOR WATER SUPPLY LAYOUT

SCALE 1 : 125 MTS.

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
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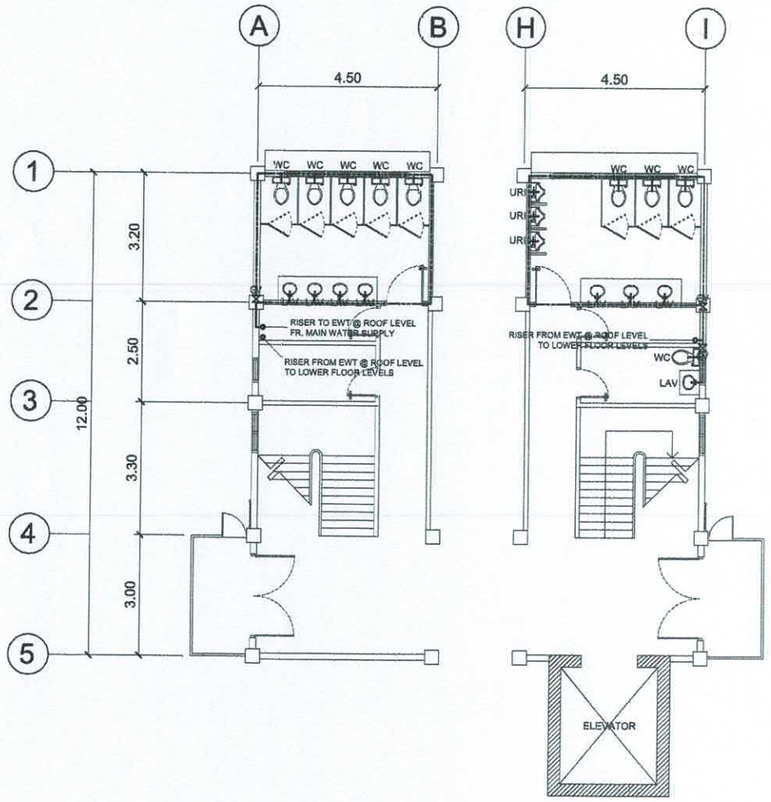
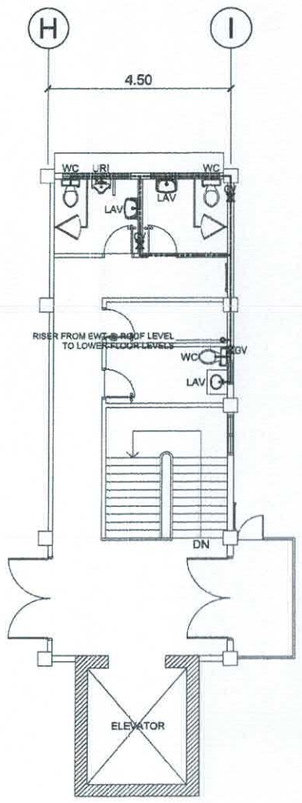
PLUMBING LEGENDS

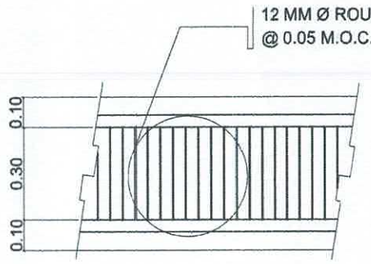
PVC ORANGE PIPE WASTE LINE	
PVC ORANGE PIPE DRAINAGE LINE	
PPR PIPE COLD WATER LINE	
CONCRETE PIPE DRAINAGE LINE	
WC	WATER CLOSET W/ HAND HELD BIDET SPRAY
LAV	COUNTER TOP LAVATORY
URI	WATER URINAL
HB	HOSE BIBB
CB	CATCH BASIN
CO	CLEAN OUT
FD	FLOOR DRAIN
GV	GATE VALVE
CV	CHECK VALVE
M	WATER METER

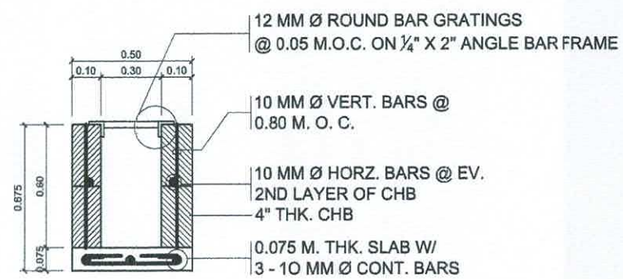


1/P6 TYP. 2ND & 3RD FLOOR WATER SUPPLY LAYOUT
SCALE 1 : 150 MTS.



2/P6 ROOF DECK WATER SUPPLY LAYOUT
SCALE 1 : 150 MTS.





3/P6 DETAILS OF OPEN CANAL W/ STEEL GRATINGS
SCALE N. T. S.

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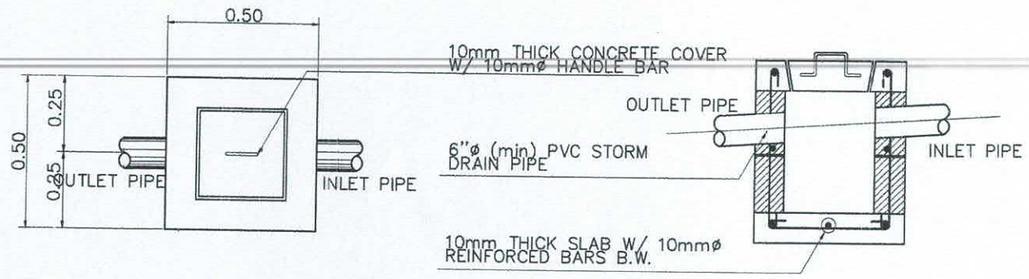
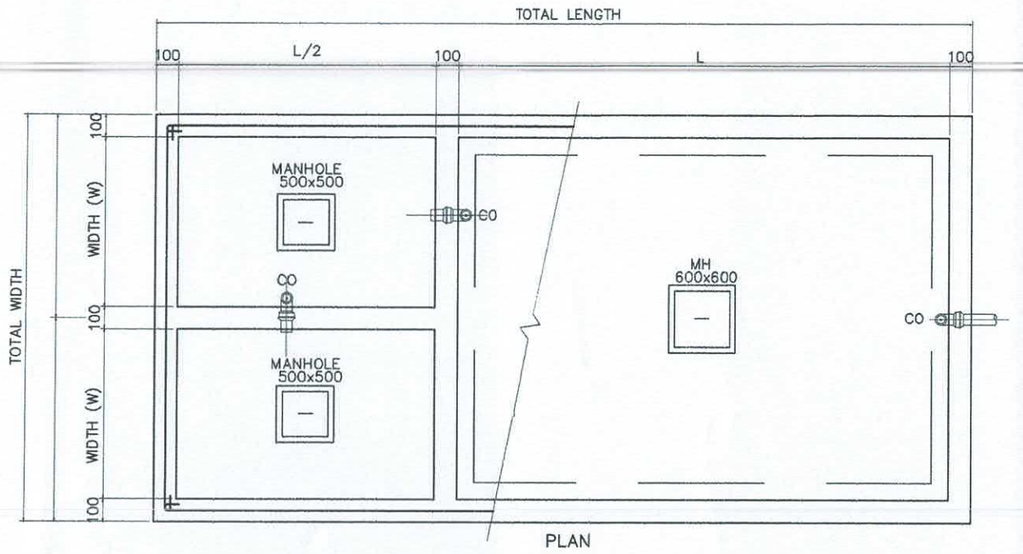
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	P - 6



1 / P 7 **CATCH BASIN/JUNCTION BOX DETAILS**

SCALE N. T. S.

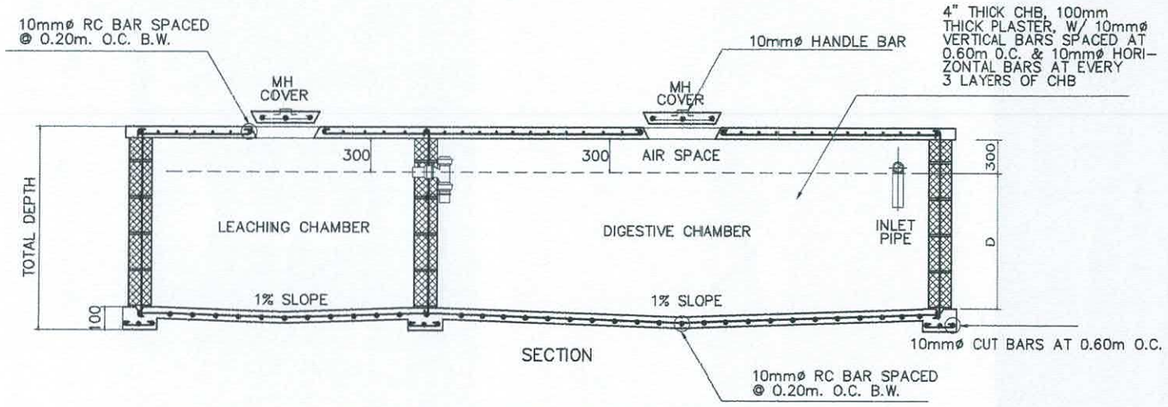


PLAN

1. ALL PLUMBING WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE PHIL. PLUMBING CODE. THE NATIONAL PLUMBING CODE & THE RULES & REGULATIONS OF INDANG , CAVITE.
2. COORDINATE THE DRAWING WITH OTHER RELATED DRAWINGS AND SPECIFICATION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DICREPANCY FOUND THEREIN.
3. ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOCATIONS REQUIRED FOR PROPER EXECUTION OF OTHER TRADE SHALL BE WITH PRIOR APPROVAL OF THE ARCHITECHT OR ENGINEER.
4. PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTOR.
   APPROVED EQUAL.
5. ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 1% UNLESS OTHERWISE SPECIFIED.
6. SIZE OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH WITH THE MANUFACTURER'S INSTRUCTIONS.
7. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE, COORDINATE THE WORKS WITH THE SEWER LINE EFFLUENT DISPOSAL POINT AND WATER LINE SERVICE CONNECTING POINT UNLESS OTHERWISE SPECIFIED.
8. ALL PIPE SIZES ARE IN MILLIMETERS AND ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

2 / P 7 **PLUMBING NOTES**

SCALE N. T. S.



SECTION

SEPTIC TANK DIMENSION					
LENGTH (L)	L/2	TOTAL LENGTH	WIDTH (W)	TOTAL WIDTH	DEPTH (D)
5000 MM	2500 MM	7500 MM	1250 MM	2500 MM	1500 MM

3 / P 7 **DETAILS OF SEPTIC TANK**

SCALE N. T. S.

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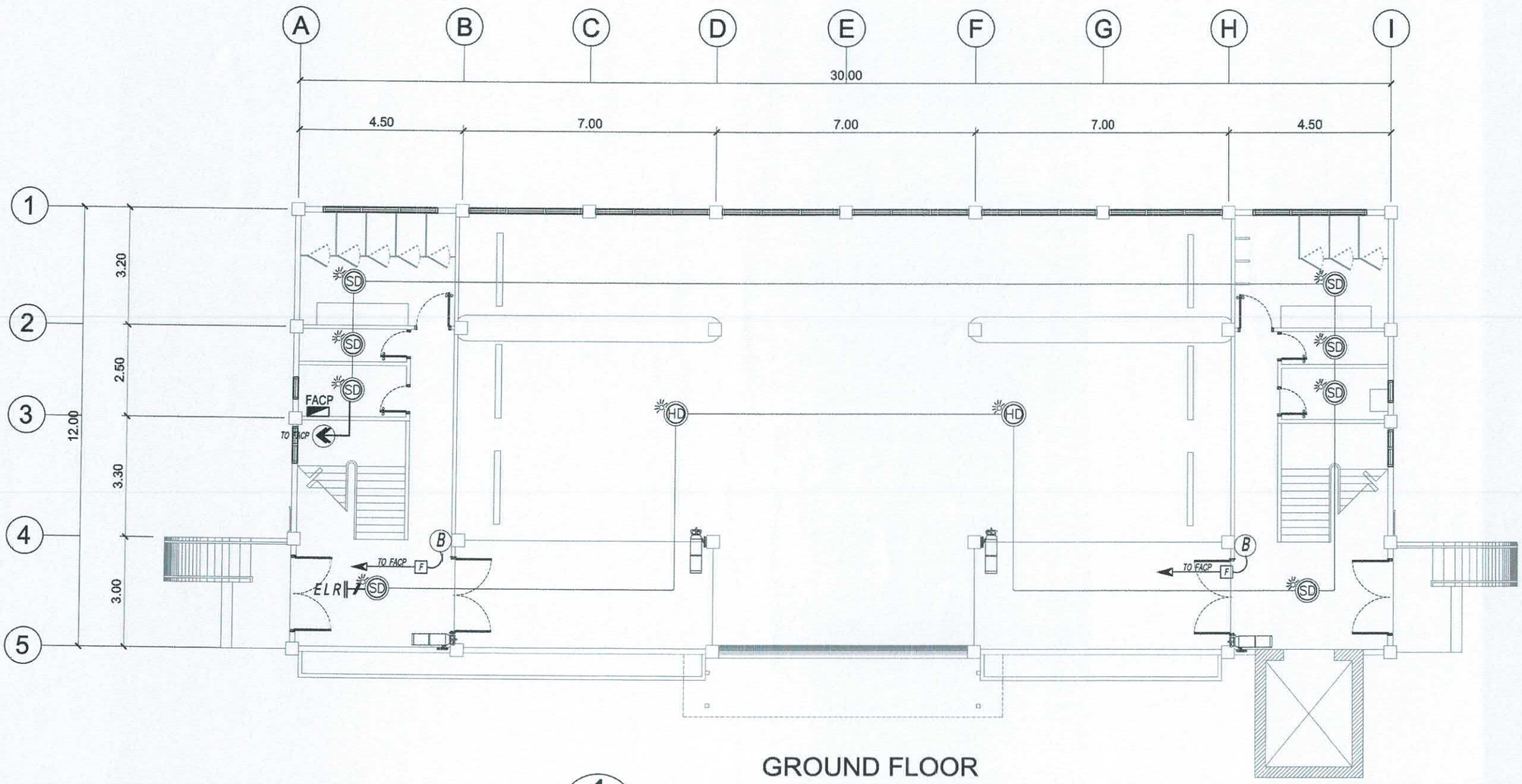
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM		S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X-B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	P - 7



GROUND FLOOR
FIRE DETECTION AND ALARM SYSTEM

1 / EC 1 SCALE 1 : 125 MTS.

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
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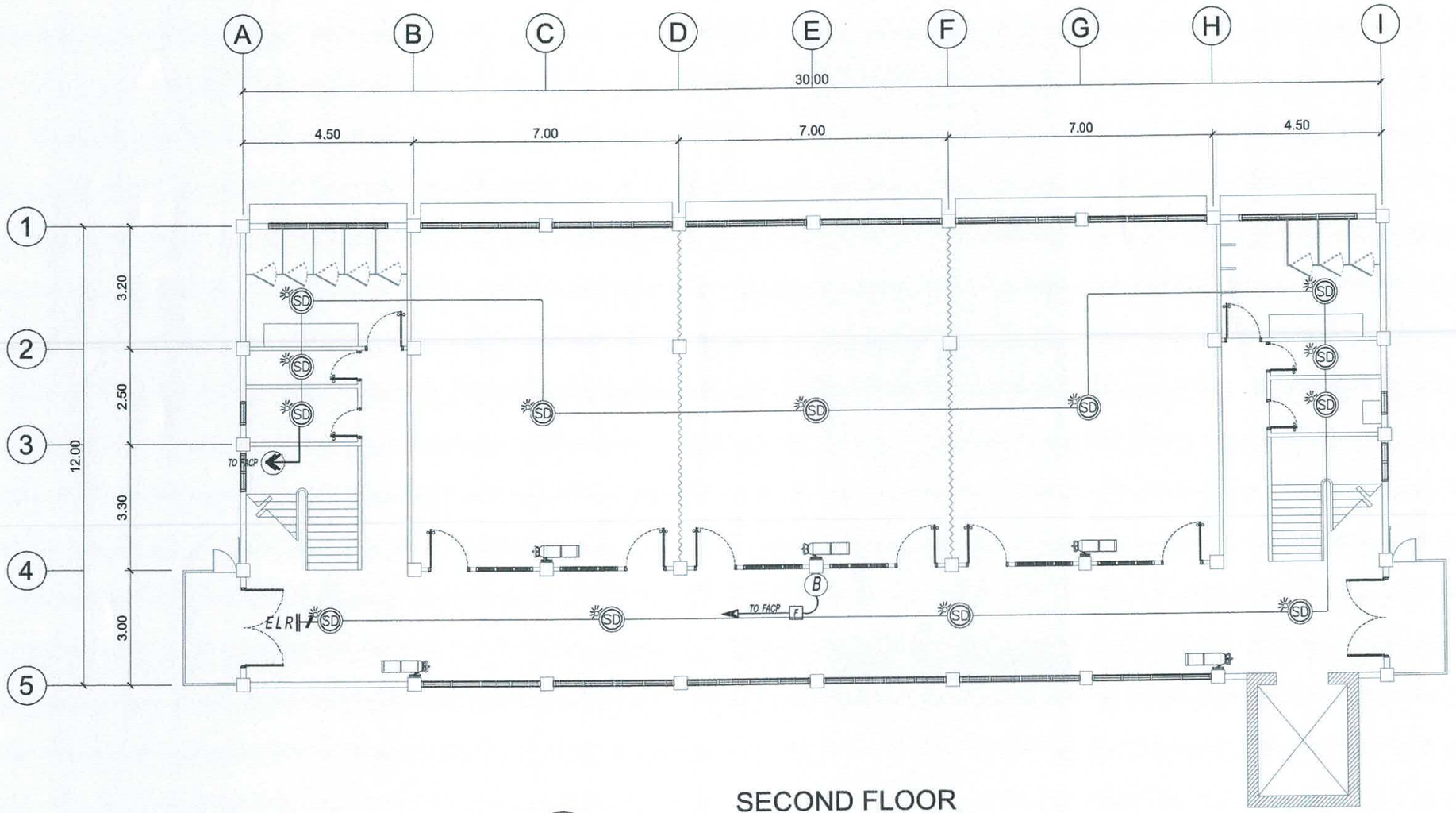
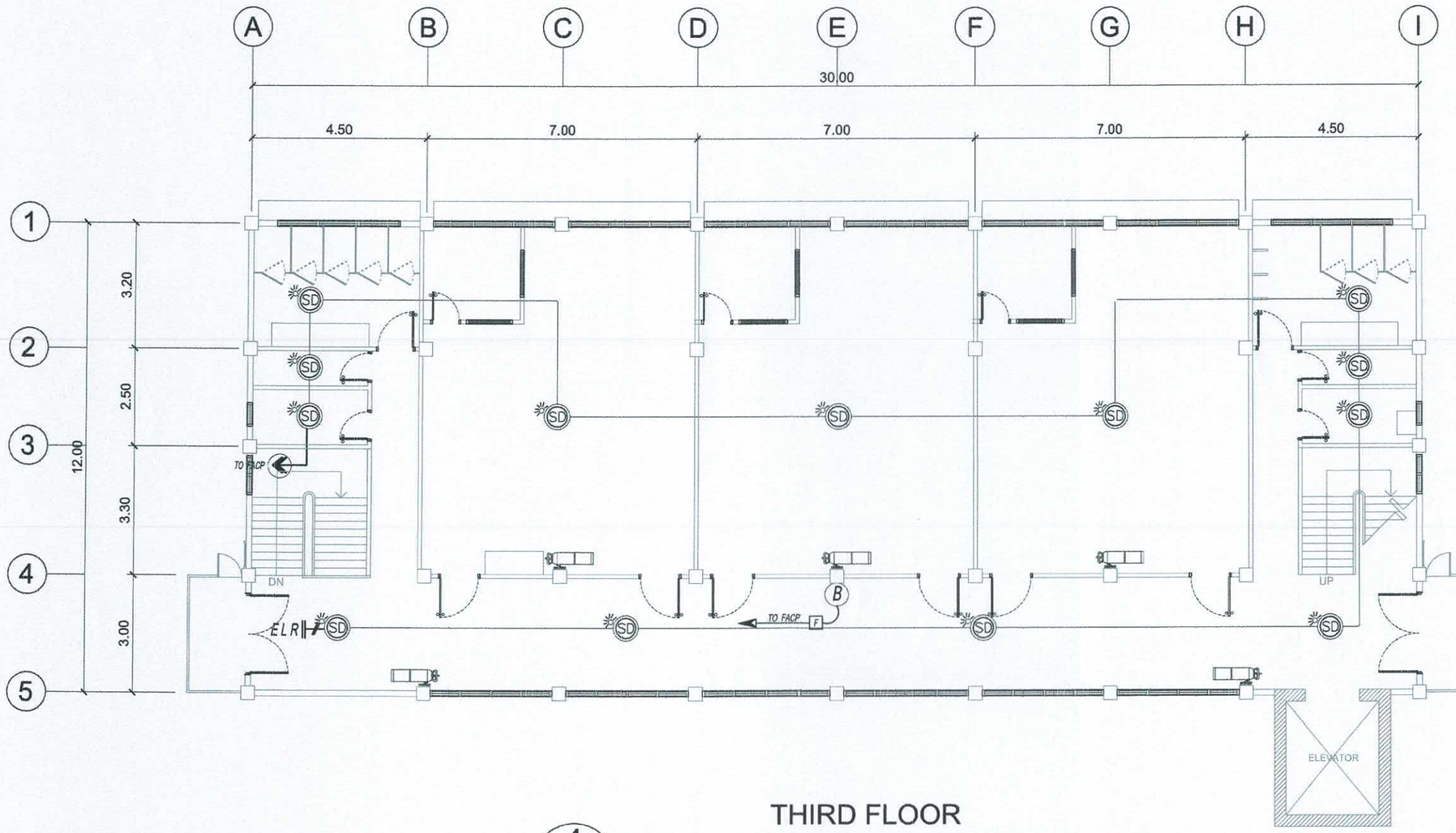


SECOND FLOOR
1 FIRE DETECTION AND ALARM SYSTEM
EC 2

SCALE 1 : 125 MTS.

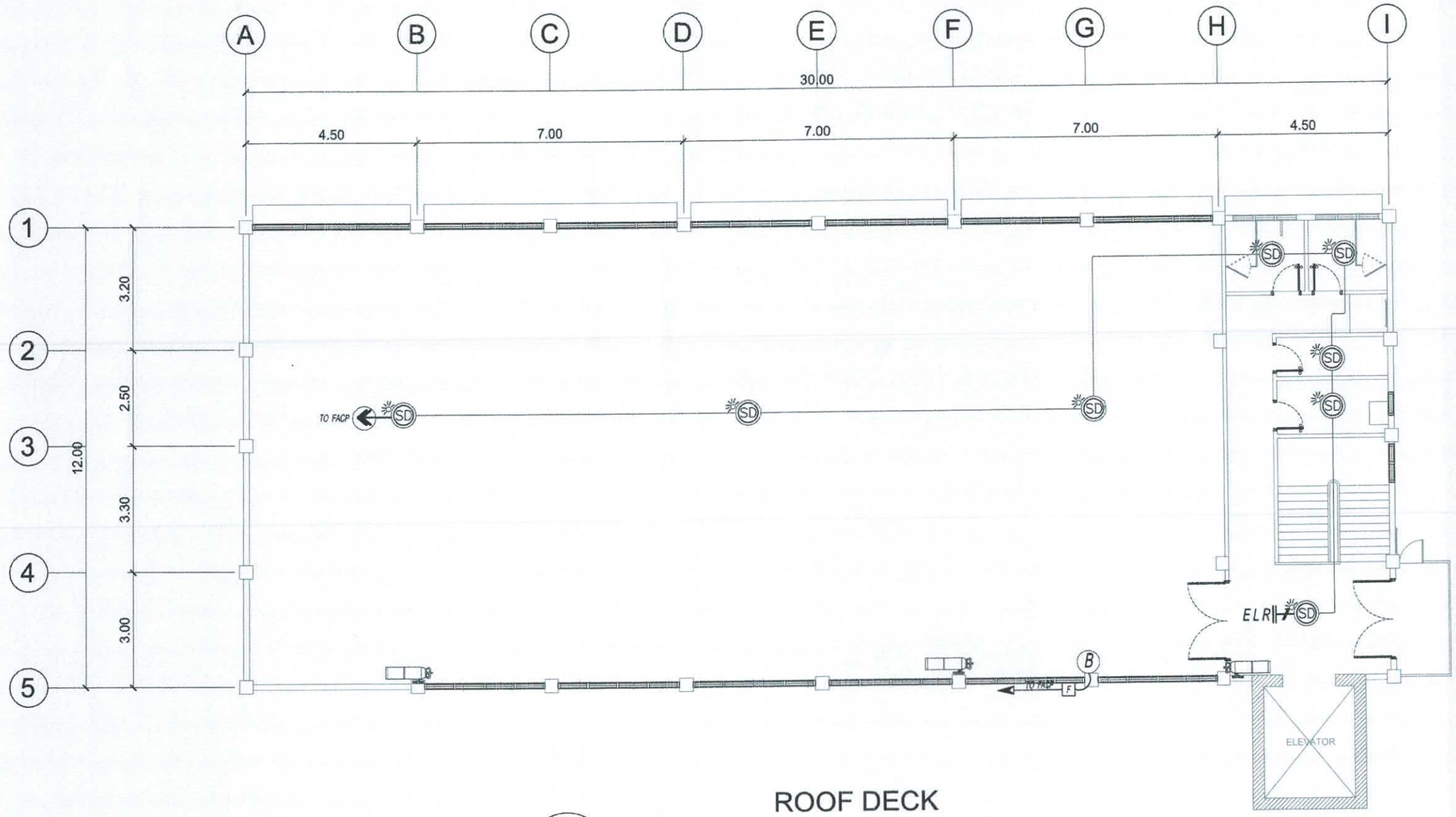
PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	R. P. PEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	EC - 2



THIRD FLOOR
FIRE DETECTION AND ALARM SYSTEM

1 / EC 3 SCALE 1 : 125 MTS.

	PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	R. H. PEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGGAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	EC - 3

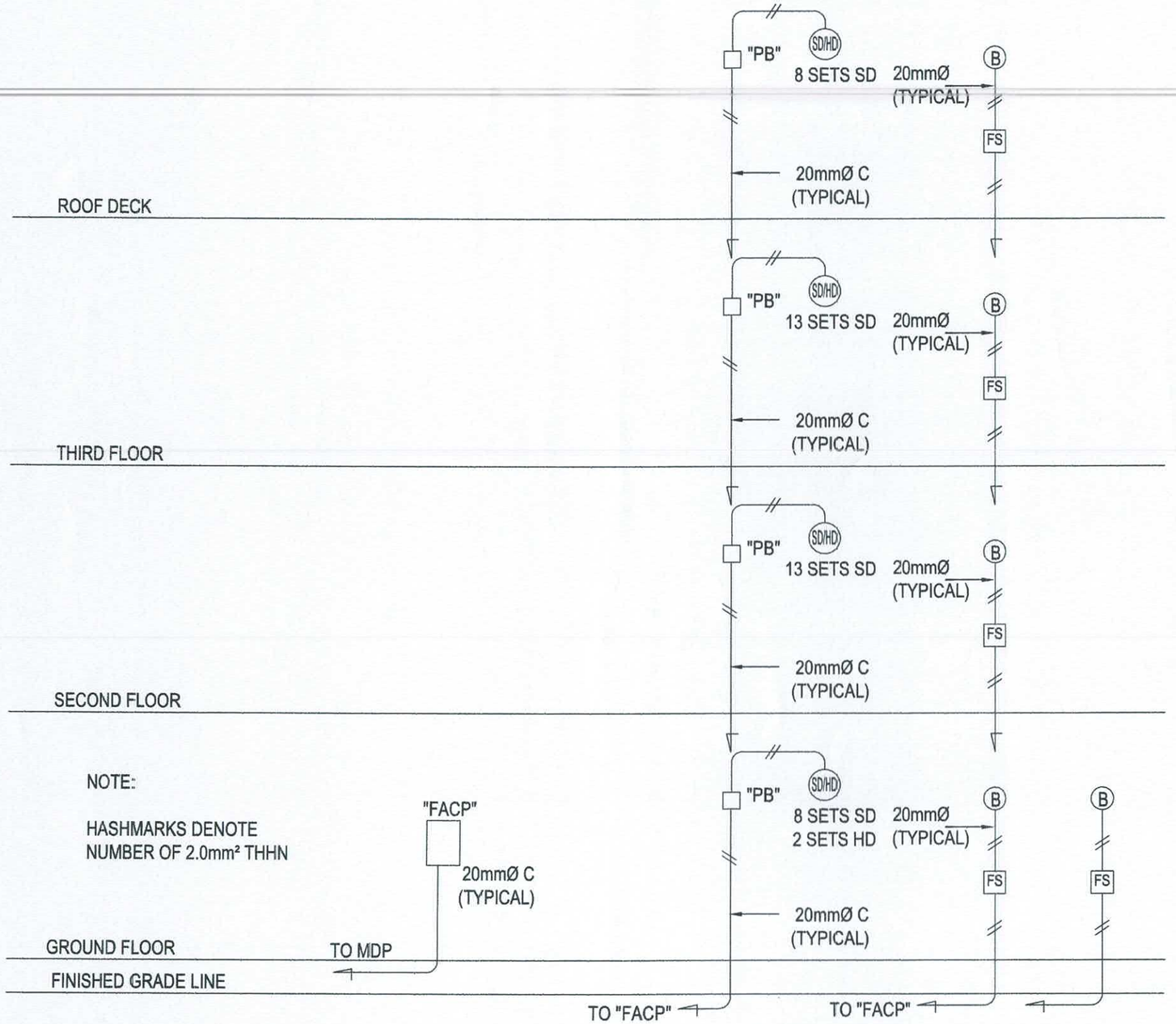


ROOF DECK

1 / EC 4 FIRE DETECTION AND ALARM SYSTEM

SCALE 1 : 125 MTS.

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	R. P. PEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	EC - 4



VERIFY HEIGHTS

1 / EC 5 FIRE ALARM SYSTEM RISER DIAGRAM (FDAS)
(SHOWING MANUAL STATIONS, BELLS AND SMOKE DETECTORS)
SCALE NTS

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
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GENERAL NOTES AND SPECIFICATIONS:

FIRE ALARM SYSTEM SHALL BE FULLY ADDRESSABLE TYPE WITH CLASS A WIRING FOR RISER.

THE COMPLETE FIRE ALARM SYSTEM SHALL BE FURNISHED/INSTALLED BY FIRE ALARM CONTRACTOR COMPLETE SYSTEM FOR OPERATION INCLUDING EQUIPMENT AND WIRINGS.

a. SMOKE DETECTION (RECONFIRMATION)
b. MANUAL PULL STATION.

THE FIRE ALARM RISER DIAGRAM CAN BE MODIFY BY CONTRACTOR/SUPPLIER TO SUIT WITH THE SUPPLIED EQUIPMENT.

ADDITONAL SMOKE DETECTOR SHALL BE PROVIDED BY TENANT WHICH WILL INCLUDE WIRING AND CONDUIT FOR ADDITIONAL ADDRESSABLE CONTROL DEVICES IN THE FDAS CONTROL PANEL.

FDAS SUPPLIER/CONTRACTOR SHALL BE PROPERLY COORDINATED IN ANY CHANGES IN THE SMOKE DETECTOR LAYOUT AS WELL AS WIRING CONNECTIONS.

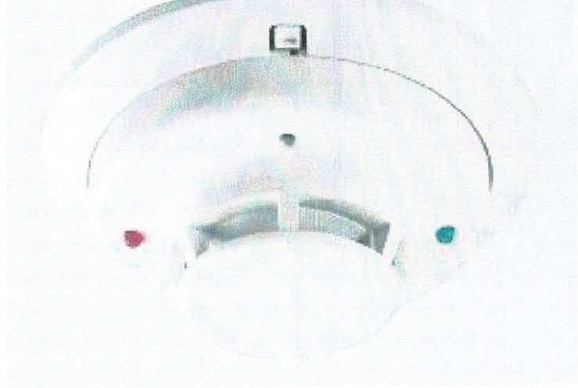
WIRING SHALL BE UNSHIELDED 2.0mm² THHN FDAS CABLE IN 20mmø PVC PIPE.

LEGEND AND SYMBOLS:

SYMBOL	DESCRIPTIONS
(SD)	SMOKE DETECTOR
(HD)	HEAT DETECTOR
FS	FIRE ALARM MANUAL STATION
(B)	FIRE ALARM BELL OUTLET
——	HOMERUN TO FACP
⊩—	END OF LINE RESISTOR – ELR
FACP	FIRE ALARM CONTROL PANEL
—//—	2–2.0 mm², THHN 20 mm Ø C.

1 EC 6 FIRE ALARM BELL
SCALE NTS

3 EC 6 FIRE ALARM MANUAL STATION (FS)
SCALE NTS



2 EC 6 SMOKE DETECTOR
SCALE NTS

PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
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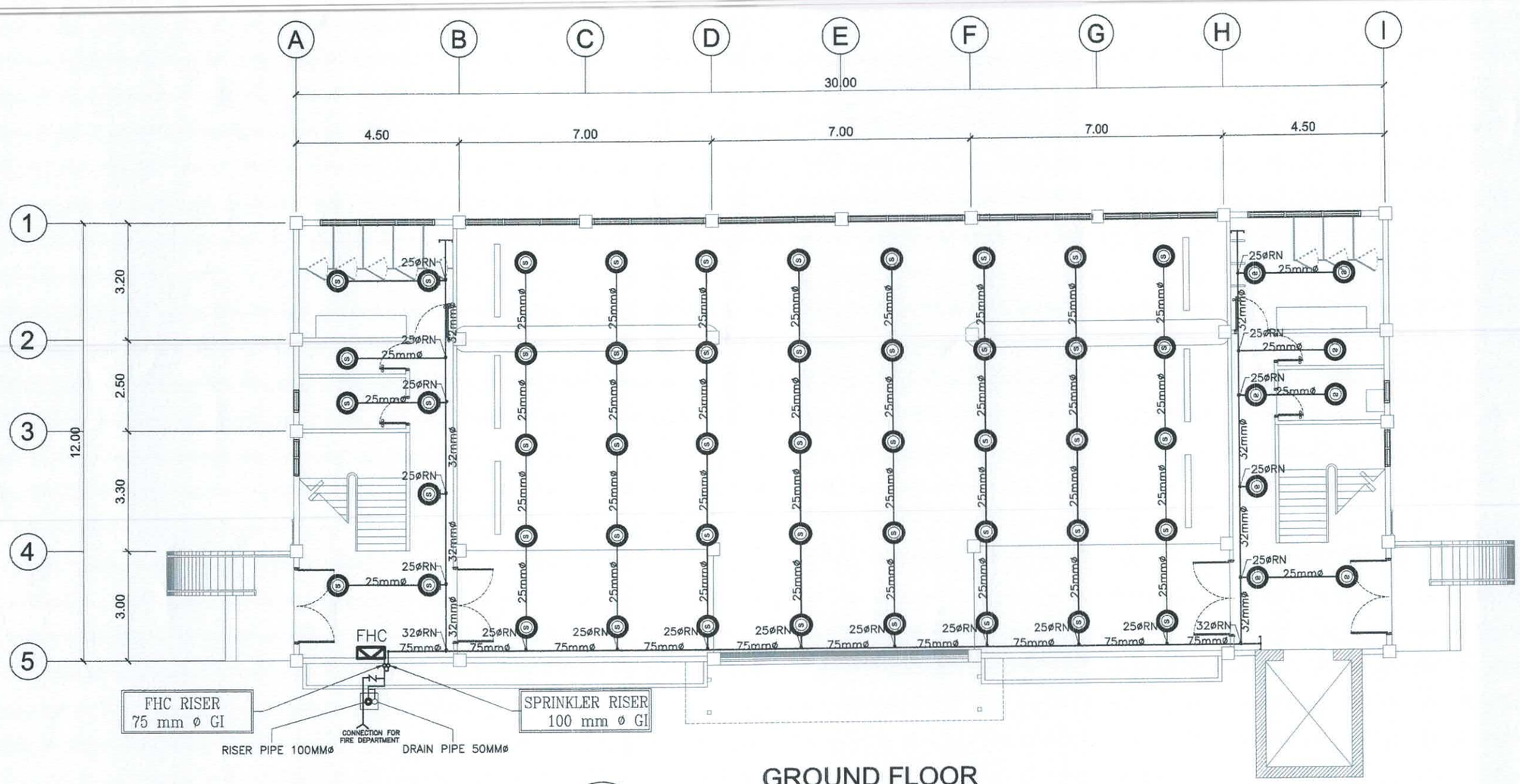
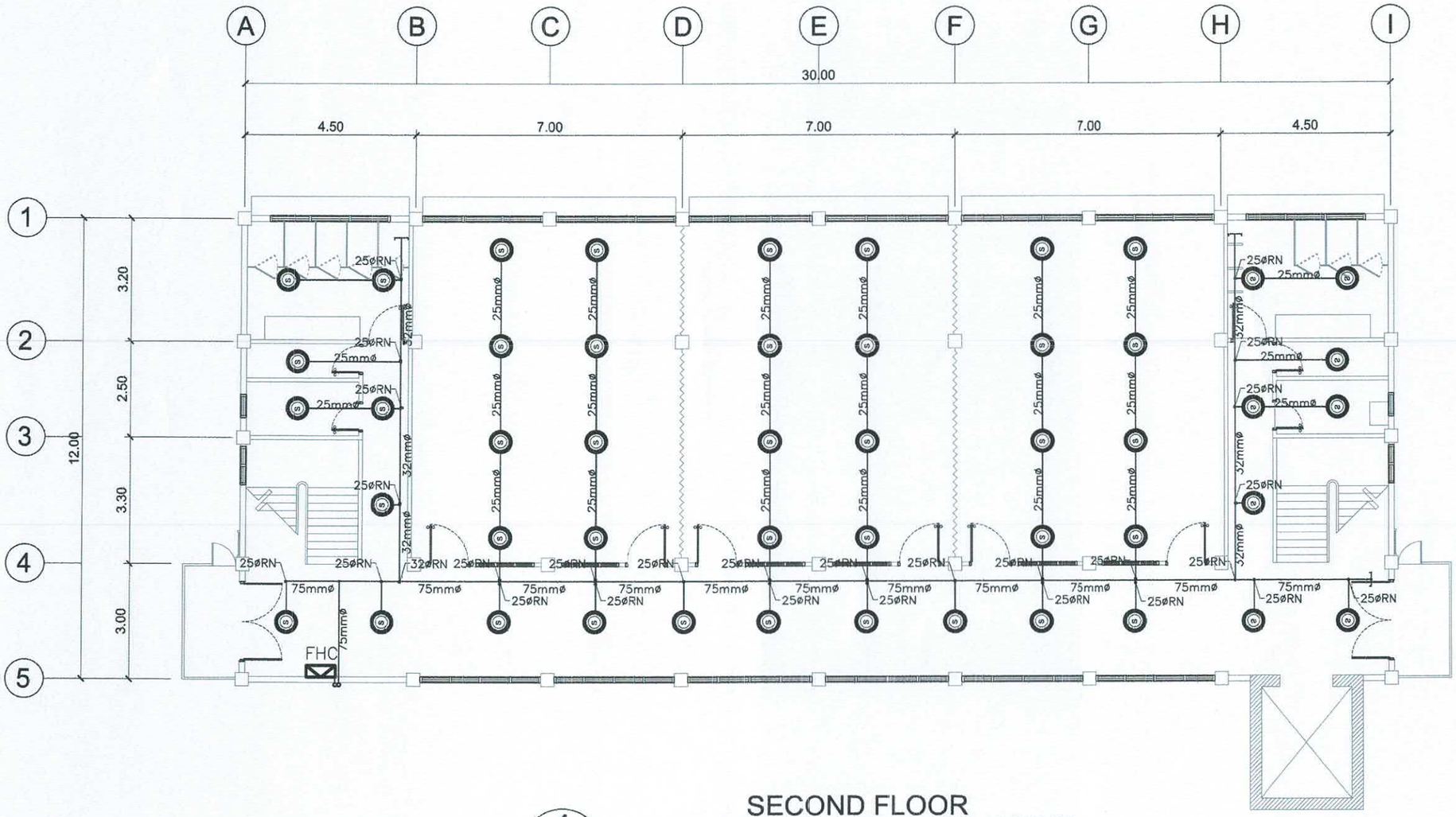


GROUND FLOOR SPRINKLER AND FHC LAYOUT

1 / M 1 SCALE 1 : 125 MTS.

	PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	J. D. ESCANO PDU OVPPD	E. J. GALVEZ DEAN COM	R. P. PEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF ACADEMIC BUILDING FOR COLLEGE OF MEDICINE TO INCREASE CARRYING CAPACITY CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	M - 1



SECOND FLOOR
SPRINKLER AND FHC LAYOUT

1 / M 2 SCALE 1 : 125 MTS.

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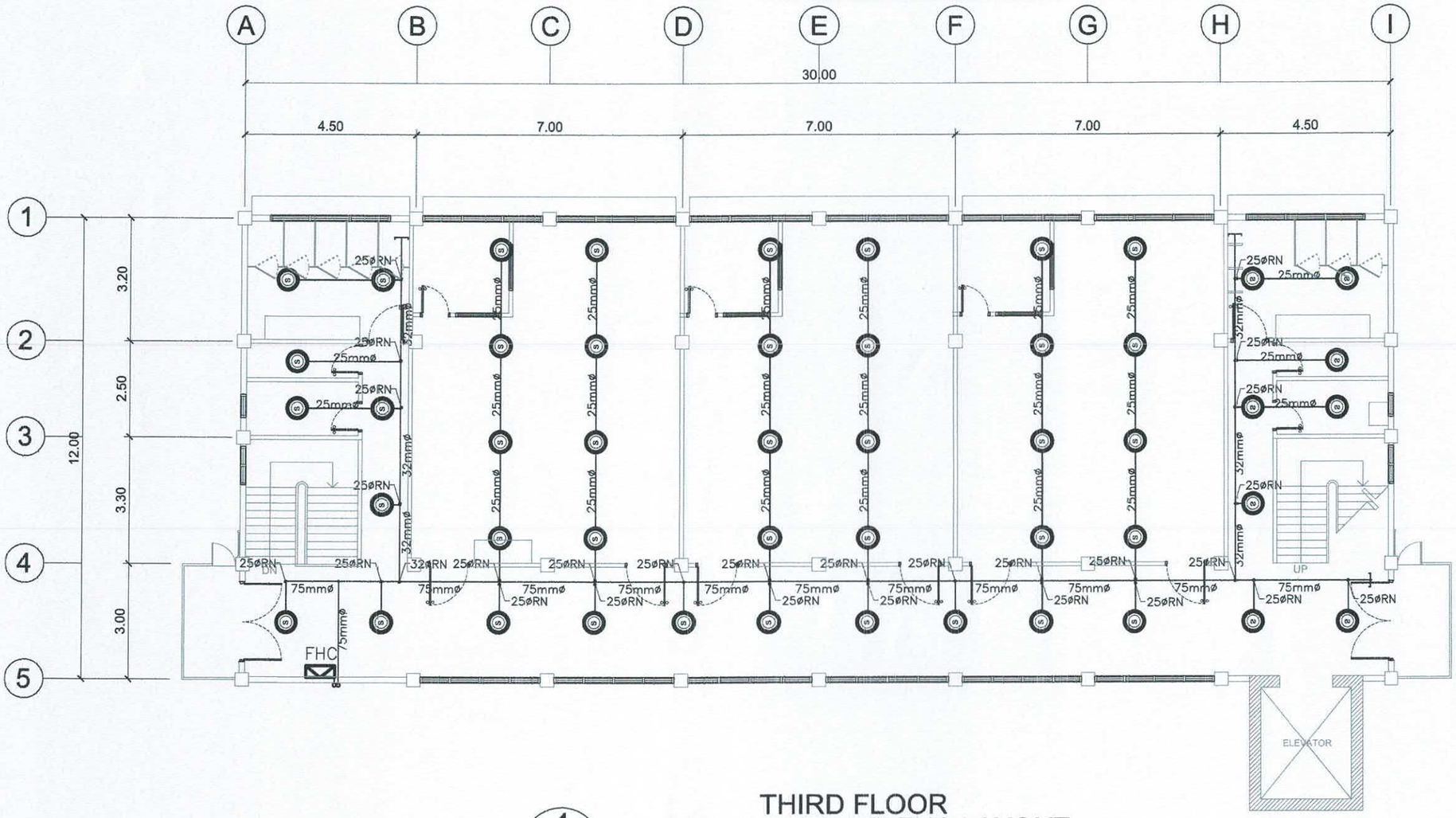

THIRD FLOOR
SPRINKLER AND FHC LAYOUT

1 / M 3

SCALE 1 : 125 MTS.

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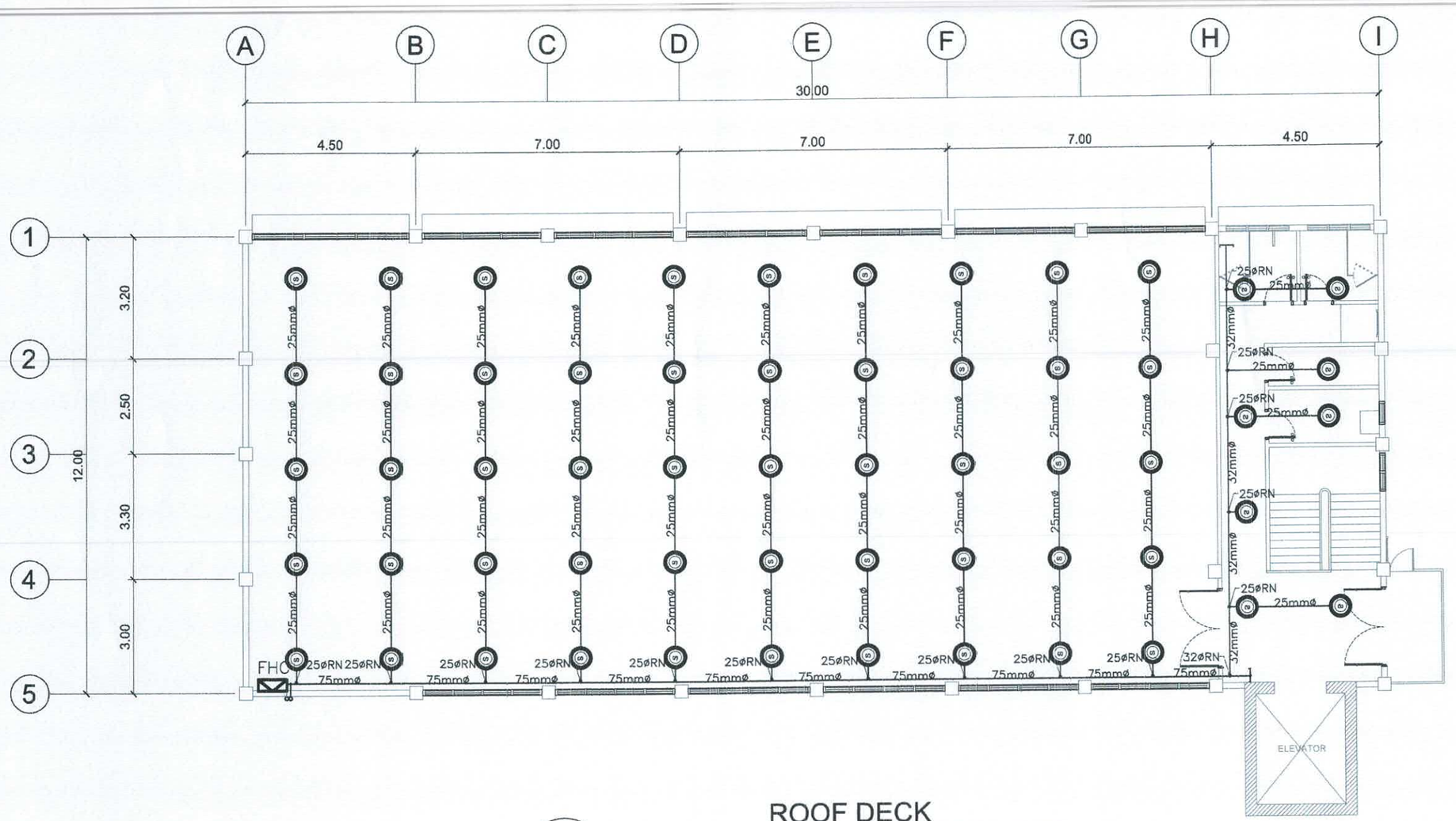

ROOF DECK
SPRINKLER AND FHC LAYOUT

1 / M 4 SCALE 1 : 125 MTS.

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GENERAL NOTES :

1. INSTALLATION OF FIRE SPRINKLER SYSTEM SHALL CONFORM TO NFPA-13 REQUIREMENTS.

2. COORDINATE WITH OTHER WORKS, INCLUDING THE PLUMBING PIPING AS NECESSARY TO INTERFACE COMPONENTS OF FIRE PROTECTION PIPING PROPERLY WITH OTHER WORKS

3. SPRINKLER SHALL BE SPACED NOT LESS THAN 6 FT (1.8 M) ON CENTERS.

4. PROVIDE 10 LBS HALOTRON PORTABLE FIRE EXTINGUISHERS TO ALL ELECTRICAL ROOM AND TO OTHER ROOM OF THE SAME USAGE.

5. ALL PIPES SHALL BE PROVIDED WITH THE PIPE SLEEVE THROUGH BEAMS, WALL, AND FLOORS.

6. PROVIDE AT LEAST ONE (1) HANGER BETWEEN EACH TWO (2) BRANCH LINES.

7. LATERAL AND LONGITUDINAL SWAY BRACES SPACED AT MAXIMUM OF 12.2 M AND 24 M ON CENTER RESPECTIVELY SHALL BE PROVIDED AT ALL PIPE LINES WITH DIAMETER OF 150 MM AND LARGER.

8. PROVIDE FLANGE CONNECTIO AT MAXIMUM INTERVAL OF 12 METERS.

9. ALL PORTABLE FIRE EXTINGUISHERS INSIDE FIRE HOSE CABINET (FHC) SHALL BE CLASS "ABC" DRY CHEMICAL UNLESS OTHERWISE SPECIFIED.

10. PROVIDE 50 LBS WHEELED TYPE HALOTRON PORTABLE FIRE EXTIGUISHER IN TRANSFORMER VAULTS.

11. WHERE SPRINKLER PASSES THROUGH SEISMIC SEPARATION ASSEMBLIES, FLEXIBLE SHALL BE PROVIDED.

12. PROVIDE AUXILLARY DRAIN FOR TRAPPED SECTION AS REQUIRED BY NFPA-13.

13. THE DISTANCE BETWEEN THE HANGER AND CENTER OF LINE OF AN UPRIGHT SPRINKLER HEAD SHALL NOT BE LESS THAN 76 MM.

14. PROVIDE NECESSARY EARTHQUAKE PROTECTION AS REQUIRED UNDER NFPA-13 AND APPLICABLE BUILDING CODE.

15. PIPING SHALL BE CONCEALED IN AREAS WITH DROP CEILINGS.

16. INSTALL IRON PIPE SLEEVES OF AMPLE DIAMETER AT ALL POINTS WHERE PIPES PENETRATE BEAMS, FLOOR OR WALLS. SIZE AND INSTALL SO THAT THE PIPES ARE NOT STRESSED.

17. SLEEVES SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF WALLS OR POURING OF CONCRETE. INSTALL SLEEVES FLUSH WITH ALL SURFACES.

18. THE CONTRACTOR MUST SUBMIT SHOP DRAWING INDICATING ACTUAL DIMENSIONAL SIZES, OPERATING WEIGHTS, AND SUFFICIENT CLEARANCES TO FACILITATE NORMAL SERVICE AND MAINTENANCE, HOWEVER, SHOULD ACTUAL EQUIPMENT PHYSICALLY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHOULD NOTIFY THE ARCHITECH IN WRITING.

19. ALL MECHANICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATION OF THE LATEST EDITION OF THE PHILIPPINE MECHANICAL CODE.

20. ALL MECHANICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISOR OF A DULY LICENSED REGISTERED MECHANICAL ENGINEER.

MATERIAL SPECIFICATIONS :

FIRE LINES	-	SHALL BE GALVANIZED IRON (GI) PIPES, SCHEDULE 40 CONFORMING TO ASTM A53. PACIFIC PIPES OR APPROVED BRAND.
GATE VALVES	-	SHALL BE OUTSIDE SCREW AND YOKE (OSY). CHECK AND GLOBE VALVES TO ASTM B-62.
SPRINKLER HEADS	-	ALL SPRINKLER HEADS (CONCEALED, UPRIGHT & SIDEWALL) SHALL BE RATED 74° C (165° F). EXCEPT ON KITCHEN SHALL BE 100° C (212° F).

NOTES:

ALL PIPES SHALL HAVE A STRENGHT EQUIVALENT TO SCHEDULE 40

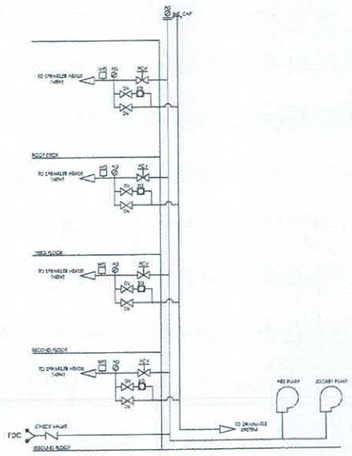
ALL PIPES SHALL BE PAINTED WITH EPOXY PRIMER PAINT AND WITH A RED PAINT AS FINAL COATING.

ALL CONNECTIONS SHALL BE LEAK PROOF AND SHALL BE ABLE TO RESIST HIGH PRESSURE.

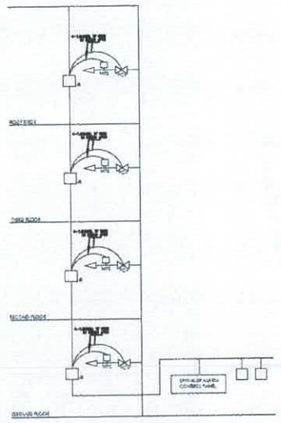
USE PENDENT TYPE SPRINKLER HEADS FOR PORTIONS WITH CEILINGS.

USE SIDE WALL TYPE SPRINKLER HEADS IN STAIRCASES.

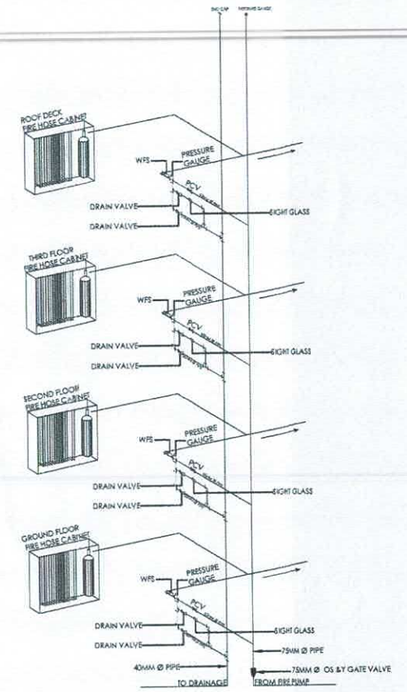
SPRINKLER SYSTEM WILL BE TAPPED TO EXISTING RISER AND DRAIN PIPES



1 / M|5 RISER DIAGRAM OF FIRE SPRINKLER SYSTEM
SCALE NTS



2 / M|5 RISER DIAGRAM OF SPRINKLER ALARM MONITORING SYSTEM
SCALE NTS



3 / M|5 FIRE HOUSE CABINET RISER DIAGRAM
SCALE NTS

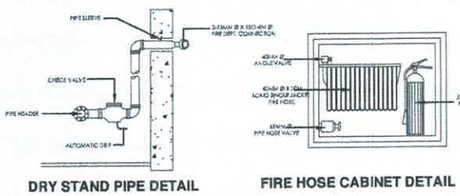
EQUIPMENT SPECIFICATION

DESIGNATION	QTY.	CAPACITY (GPM)	TYPE	RPM	WORKING PRESSURE	MOTOR RATING KW (HP)	EFF.	VOLTS	PHASE	HERTZ	REMARKS
FIRE PUMP	1	500	HORIZONTAL SPLIT CASE	3550	120 PSI.	45 (60HP)	85 %	220	3	60	ELECTRIC DRIVEN FIRE PUMP
JOCKEY PUMP	1	20	HORIZONTAL MULTI STAGE	3500	125 PSI.	3.73 (5 HP)	65 %	220	3	60	ELECTRIC DRIVEN JOCKEY PUMP

LEGEND AND SYMBOLS :

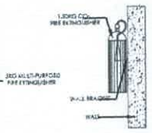
- GATE VALVE
- CHECK VALVE
- WATER FLOW SWITCH
- TEE CONNECTION
- ELBOW CONNECTION
- OS &Y GATE VALVE WITH MONITOR SWITCH
- END CAP
- PIPING SYSTEM
- PRESSURE RELIEF VALVE
- PENDENT/UPRIGHT SPRINKLER
- SIDE WALL SPRINKLER
- FIRE EXTINGUISHER
- SMOKE DETECTOR
- HCFC — EAGLE HCFC 123 (dichlorotrifluoroethane) Ceiling Type Fire Extinguisher, Stored Pressure type

C.I.	CONCENTRIC INCREASER, OPTIONAL
ER	ECCENTRIC REDUCER, OPTIONAL
RN	RISER NIPPLE
BFV	BUTTERFLY VALVE, WAFER TYPE
GV	GATE VALVE, RISING STEM
GV	GATE VALVE, RISING STEM
WCV	WAFER TYPE CHECK VALVE
CV	SWING TYPE CHECK VALVE
WFS	WATER FLOW SWITCH
PRV	PRESSURE REDUCING VALVE
FP	FIRE PUMP
JP	JOCKEY PUMP
FA	FIRE ALARM
B	BELL
SG	SIGHT GLASS
PG	PRESSURE GAUGE
PCV	PRESSURE CONTROL VALVE W/ SUPERVISORY SWITCH
FDC	FIRE DEPARTMENT CONNECTION
DV	DRAIN VALVE

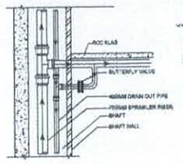


DRY STAND PIPE DETAIL

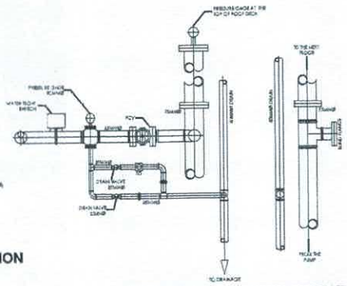
FIRE HOSE CABINET DETAIL



WALL MOUNTED FIRE EXTINGUISHER DETAIL

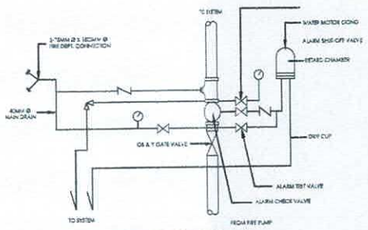


DRAIN OUT PIPE SECTION



ELEVATION VIEW AT RISER

SUPERVISORY FLOOR CONTROL VALVE ASSEMBLY



ALARM CHECK VALVE SCHEMATIC DIAGRAM

4 / M|5 FIRE PROTECTION DETAILS
SCALE NTS

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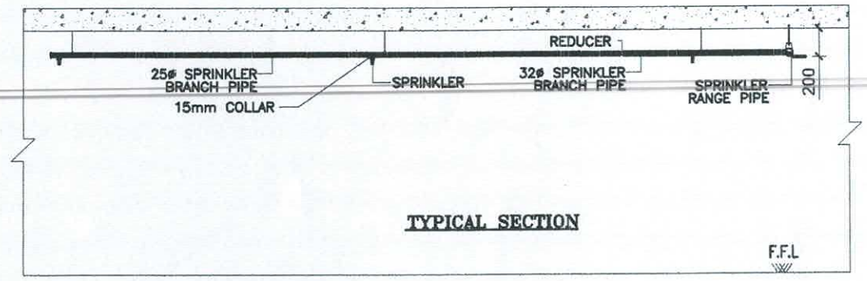
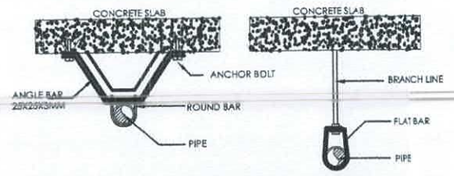
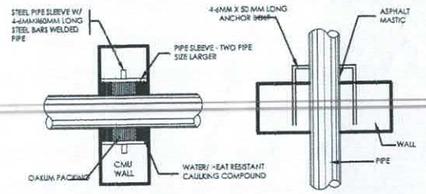


TYPICAL SECTION

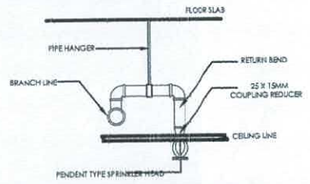


TWO-WAY BRACE/ PIPE HANGER

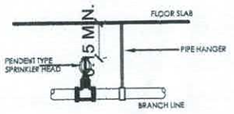


PIPE SLEEVE

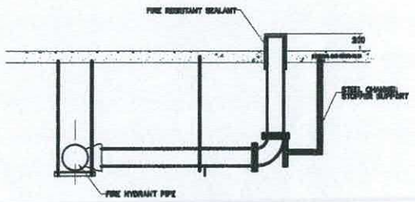
FOUR WAY BRACE



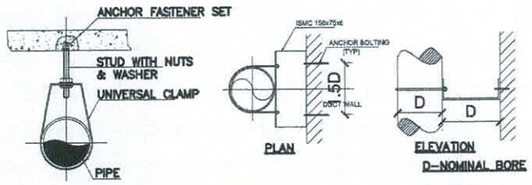
PENDENT SPRINKLER HEAD



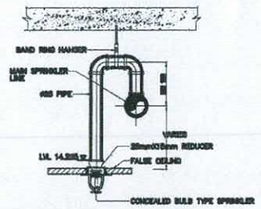
UPRIGHT SPRINKLER HEAD



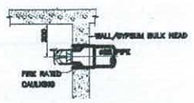
FIRE HYDRANT



SUPPORTING DETAIL FOR RISERS



INSTALLATION DETAIL FOR PENDENT SPRINKLER (CONCEALED)



DETAIL FOR HORIZONTAL SIDEWALL SPRINKLER

Ceiling Type HCFC 123 Automatic Fire Extinguisher

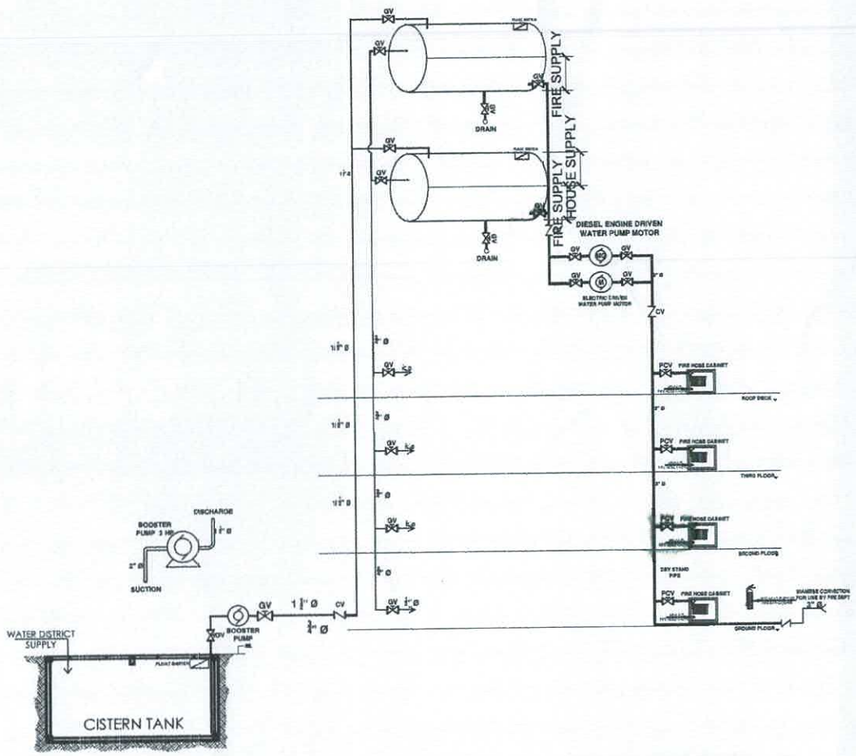
PIPE SUPPORT DETAILS

PIPE SIZE	DISTANCE BETWEEN HANGERS
25 MMø	3.0 M.
32 MMø	3.0 M.
40 MMø	3.0 M.
50 MMø	3.0 M.
65 MMø	3.0 M.
80 MMø	3.0 M.
100 MMø	4.0 M.
150 MMø	4.0 M.

STUD ROD SIZES

PIPE SIZE	DIA. OF ROD
25 MMø	10 MM.
32 MMø	10 MM.
40 MMø	10 MM.
50 MMø	10 MM.
65 MMø	10 MM.
80 MMø	10 MM.
100 MMø	10 MM.
150 MMø	12.7 MM.

1 / M 6 FIRE PROTECTION DETAILS
SCALE NTS



2 / M 6 WATER SUPPLY AND FIRE PROTECTION SYSTEM SCHEMATIC DIAGRAM
SCALE NTS

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