



1
A1

SCALE

PERSPECTIVE

N. T. S.

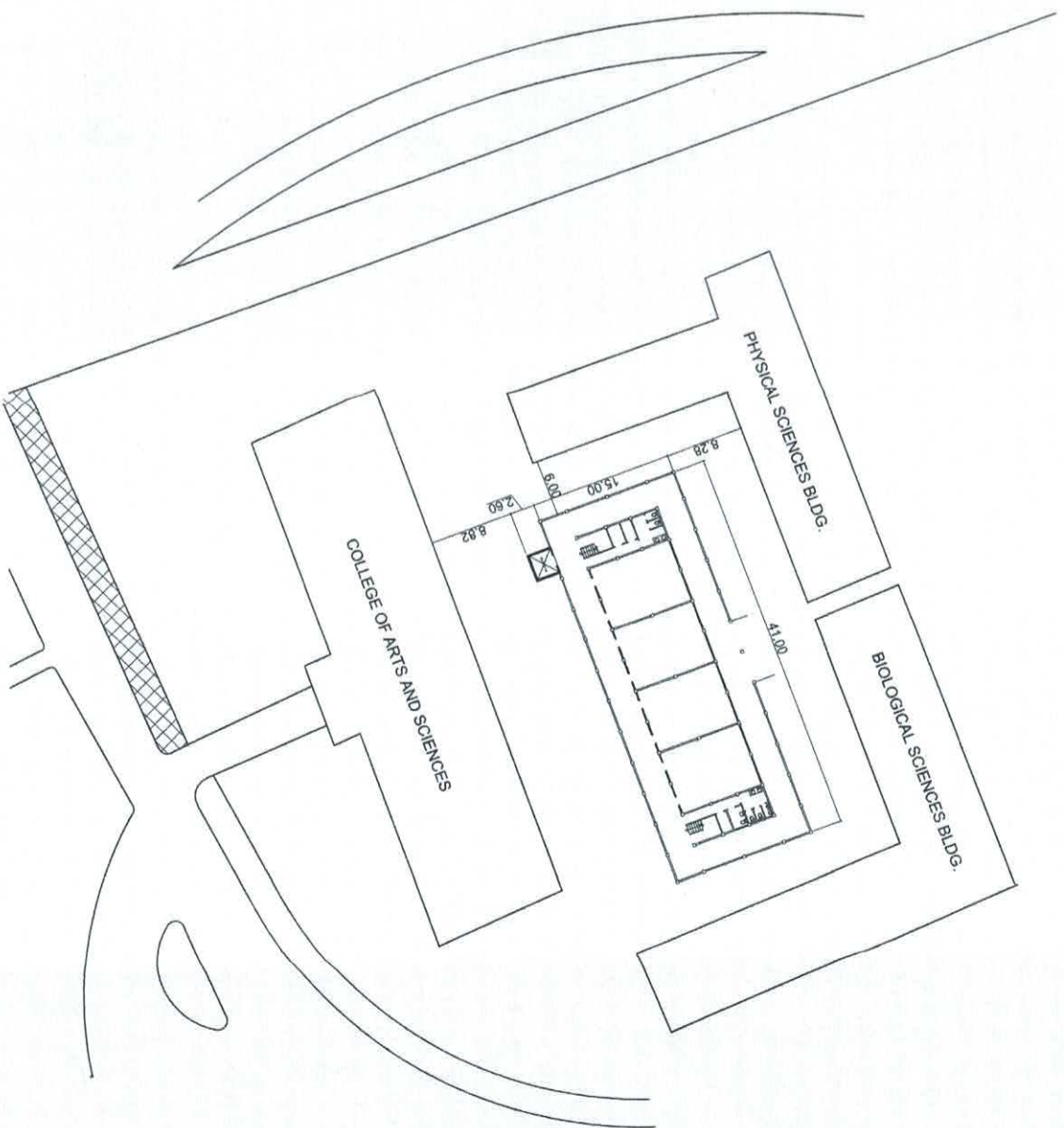


2
A1

SCALE

VICINITY MAP

N. T. S.



3
A1

SCALE

SITE DEVELOPMENT PLAN

1 : 750 MTS.



PREPARED BY: J. D. ESCANO OV/PPD PDU	END USER: A. G. B. DESINGANO DEAN CAS	REVIEWED BY: E. N. RODEROS JR. ARCHITECT	ENDORSED BY: O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	REC. APPROVAL: A. G. MANGAWAS VP/PPD CVSU	APPROVED BY: H. D. ROBLES PRES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS CAVITE STATE UNIVERSITY	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: A - 1
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J. D. ESCANO
OV/PPD
PDU

A. G. B. DESINGANO
DEAN
CAS

E. N. RODEROS JR.
ARCHITECT

S. B. BAYOT JR.
HEAD
PDU

O. B. DELOS REYES
DIRECTOR
PLANNING AND DEVT. OFFICE

A. G. MANGAWAS
VP/PPD
CVSU

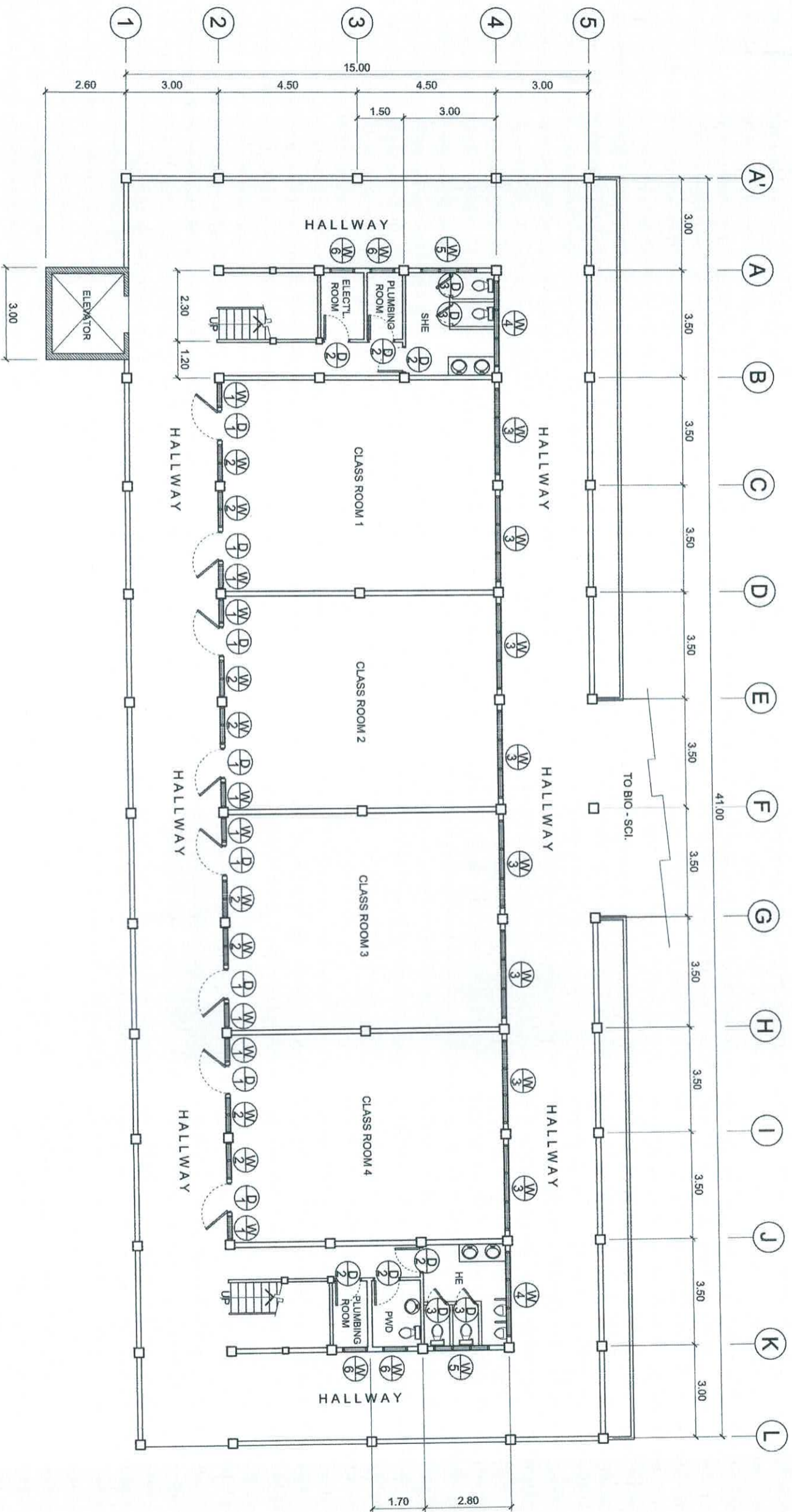
J. X. B. MEMPOMUCENO
VP/ASST
CVSU

H. D. ROBLES
PRES
CVSU

COMPLETION OF GENERAL
EDUCATION BUILDING
MAIN CAMPUS
CAVITE STATE UNIVERSITY

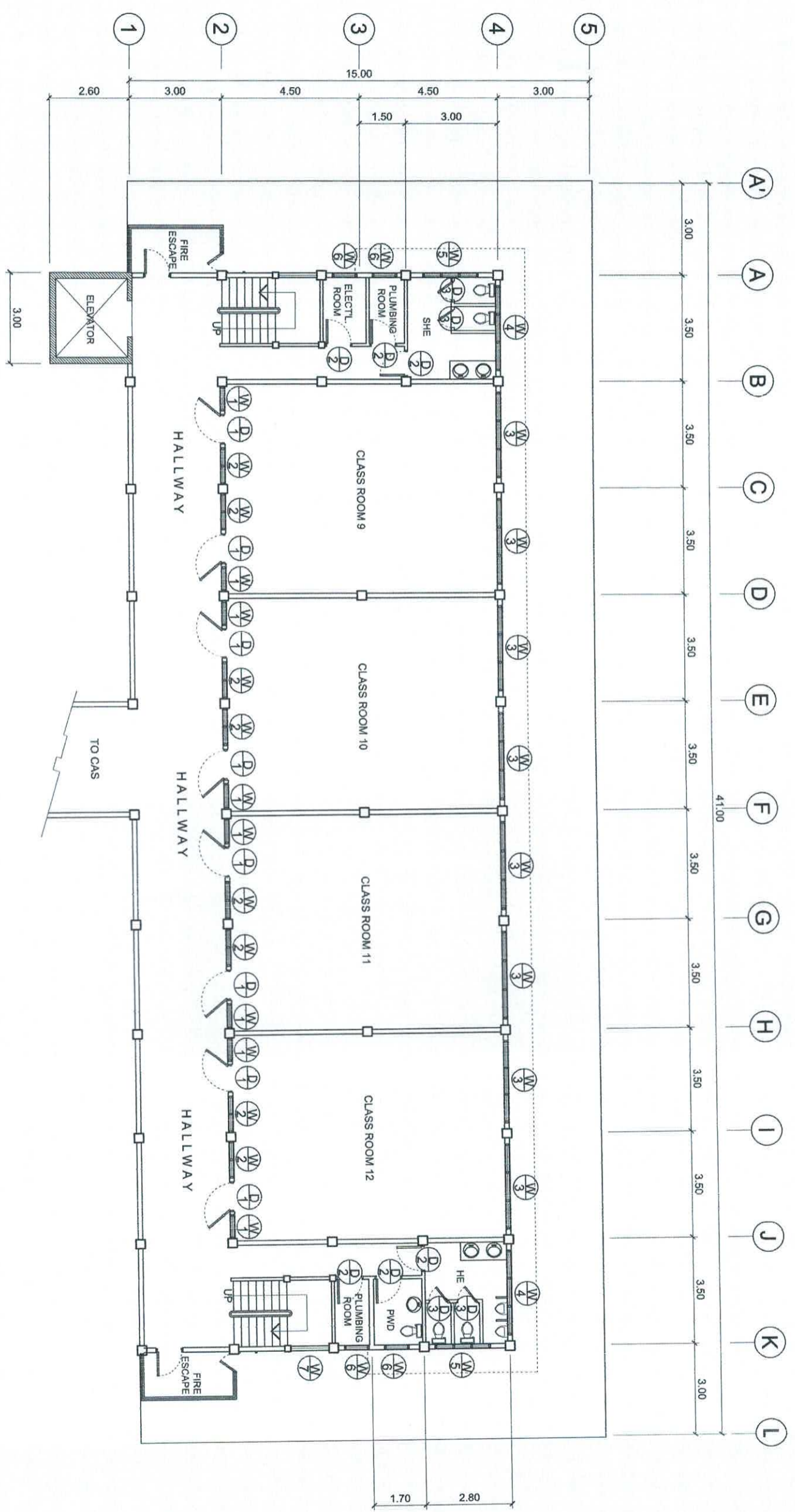
CAVITE STATE
UNIVERSITY

A - 1



1 LOWER GROUND FLOOR PLAN
A2 SCALE
 1 : 150 MTS.

 J.T. ESCANO <small>O/PPD</small>	END USER: A.G. B. DESINGANO <small>DEAN</small>	REVIEWED BY: E. N. RODRIGOS JR. <small>ARCHITECT</small>	ENDORSED BY: B. BELOS REYES <small>DIRECTOR PLANNING AND DEVL. OFFICE</small>	REC. APPROVAL: A.G. MAGCAYAS <small>VP/PPD</small>	APPROVED BY: M. D. ROBLES <small>PP/S</small>	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING <small>MAIN CAMPUS</small>	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: A - 2
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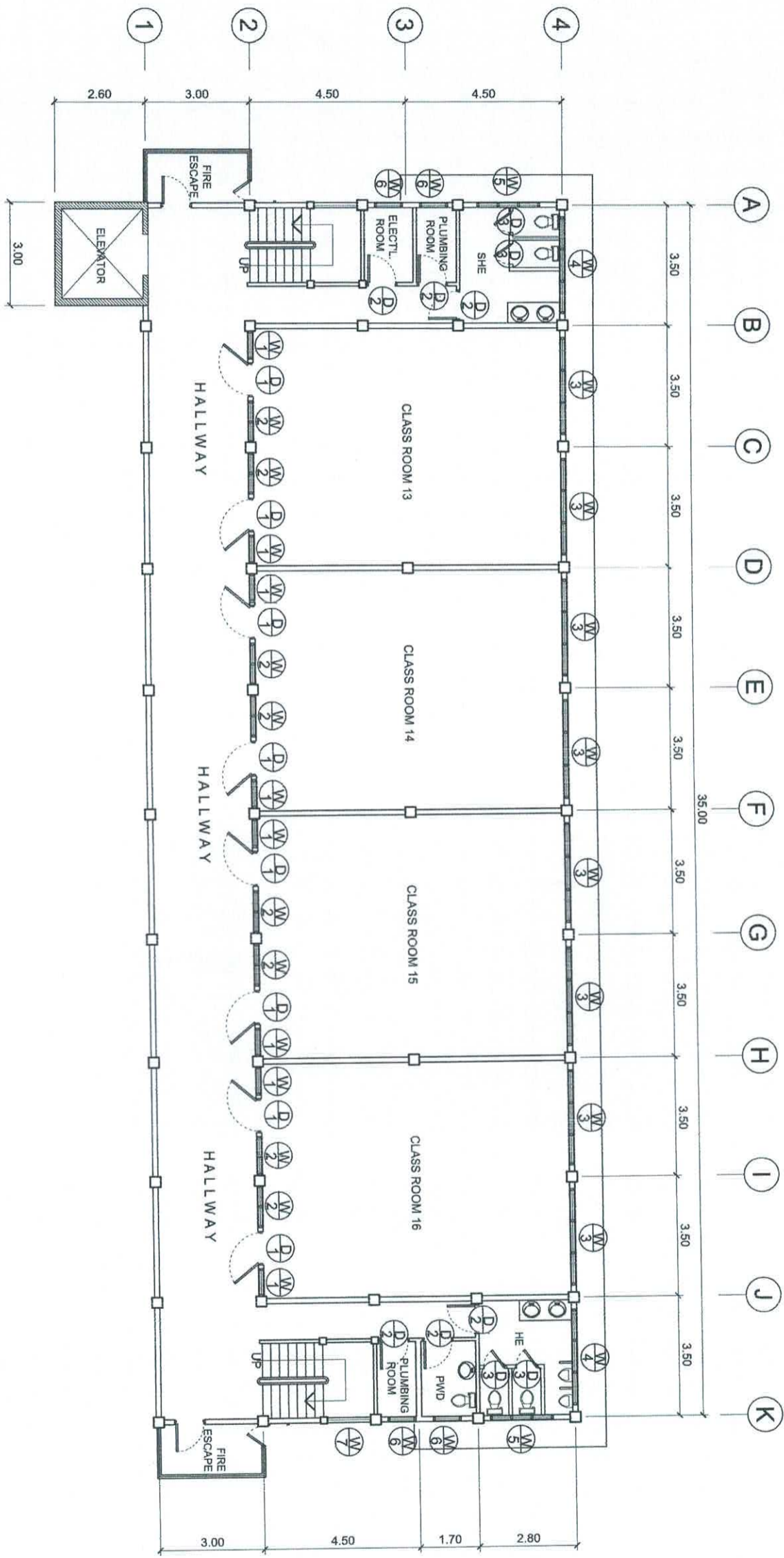


1
A4 SCALE

THIRD FLOOR PLAN

1 : 150 MTS.


 PREPARED BY: J. D. ESCANO OVP/PPD PDU	END USER: A. G. B. DESINGANO DEAN CAS	REVIEWED BY: E. N. RODEROS JR. ARCHITECT	ENDORSED BY: O. B. DELLOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	REC. APPROVAL: A. G. MAGSAYAS CV/SU	APPROVED BY: M. D. ROBLES PRES. CV/SU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: A - 4
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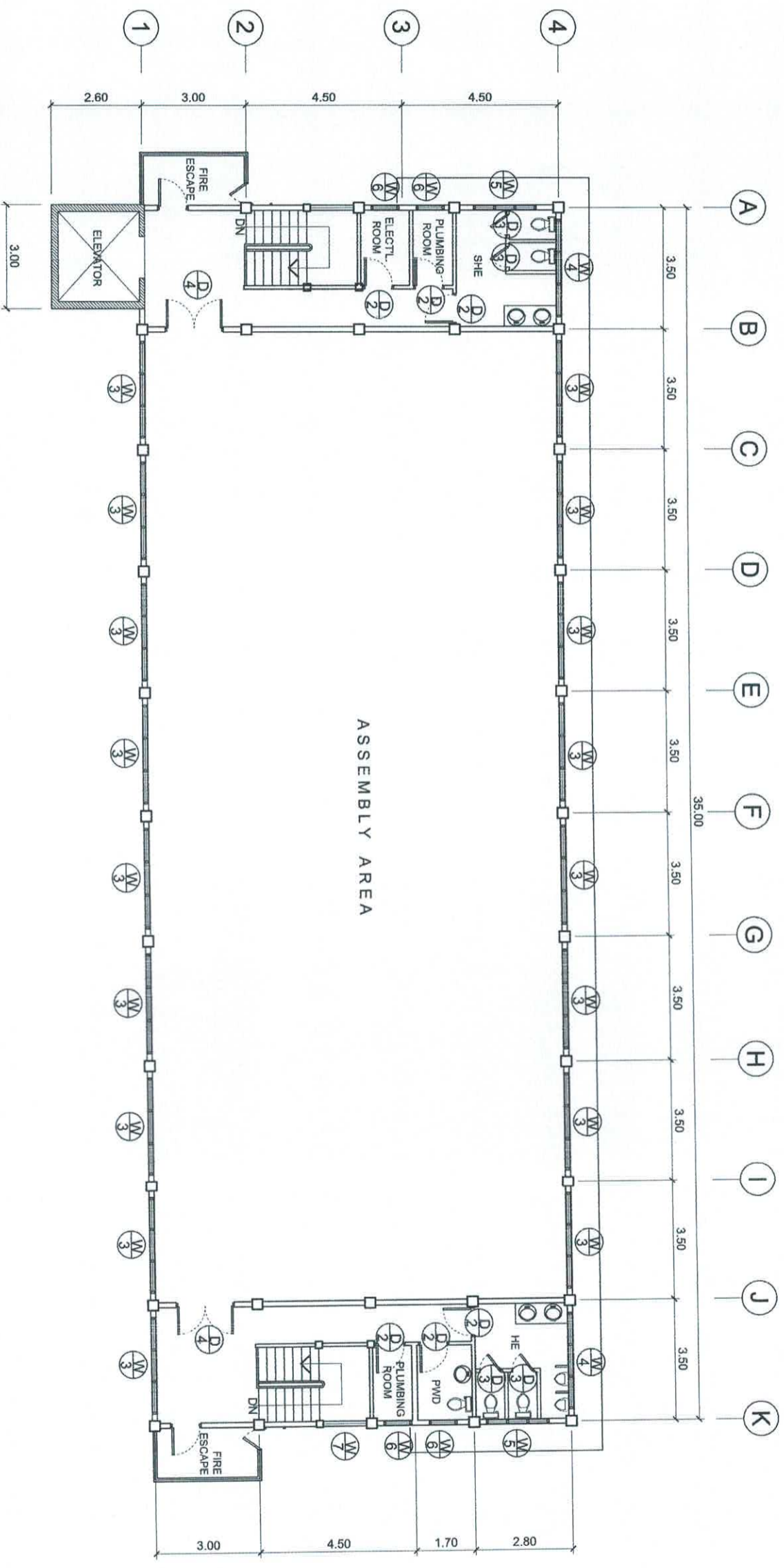


1
A/5 SCALE

FOURTH FLOOR PLAN

1 : 150 MTS.

	PREPARED BY: <i>J. D. ESCANO</i> PDU OVP/PPD	END USER: <i>A. G. B. DESINGANO</i> DEAN CAS	REVIEWED BY: <i>E. N. RODEROS JR.</i> ARCHITECT	ENDORSED BY: <i>O. B. DELOS-REYES</i> DIRECTOR PLANNING AND DEV. OFFICE	REC. APPROVAL: <i>A. G. MAGCAYAS</i> VPPD CVSU	APPROVED BY: <i>M. B. ROBLES</i> PRES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: A - 5
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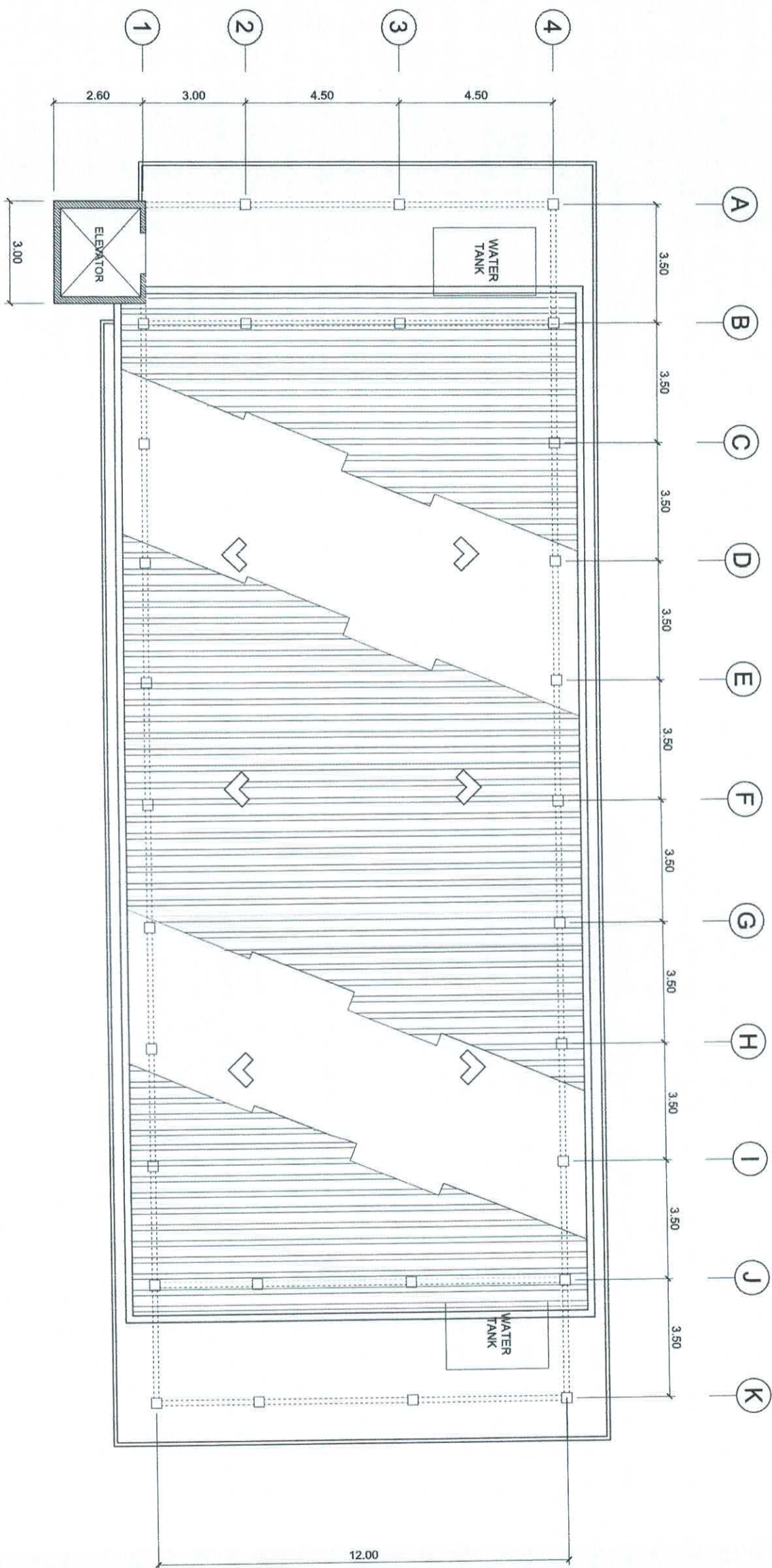


1
A/6
SCALE

ROOF DECK PLAN

1 : 150 MTS.

 PREPARED BY: J. D. ESCANO PDU	END USER: A. G. B. DESINGANO DEAN	REVIEWED BY: E. N. RODRIGOS, JR. ARCHITECT	ENDORSED BY: O. B. DELLOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	REC. APPROVAL: A. G. MAGCAYAS CVSU	APPROVED BY: H. D. ROBLES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: A - 6
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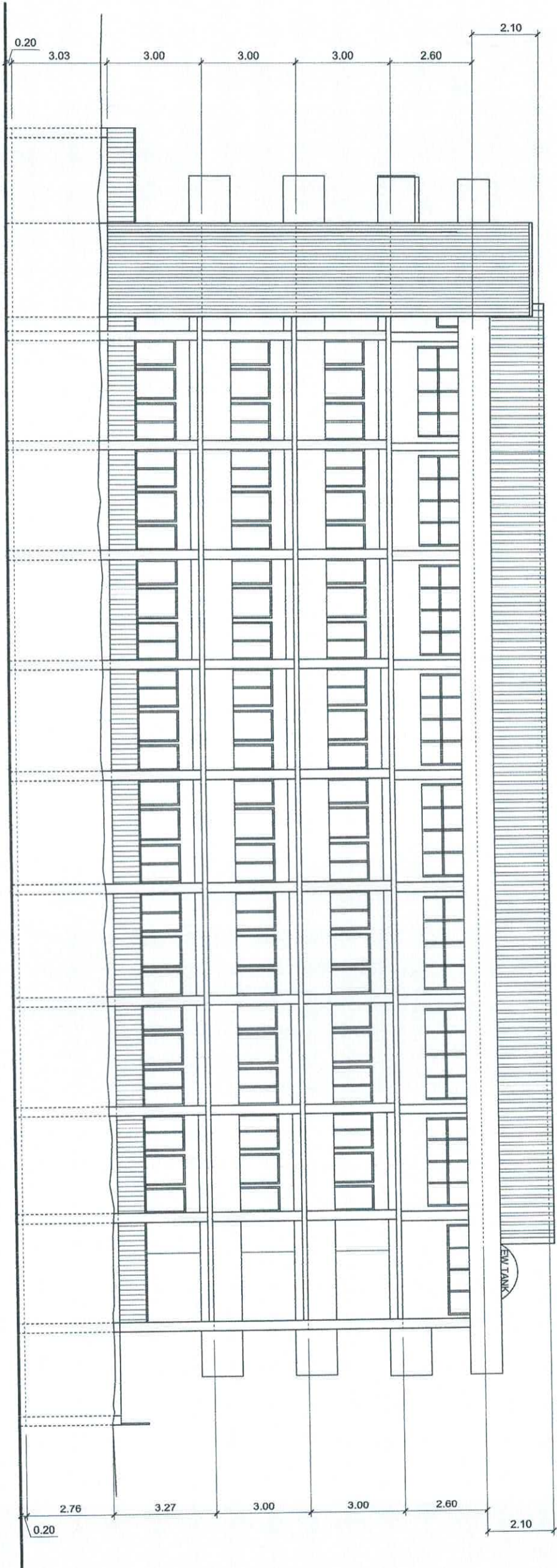
1
A7 SCALE

ROOF PLAN

1 : 150 MTS.

 PREPARED BY: J. D. ESCANO OVP/PPD PDU	END USER: A. G. B. DESINGANO DEAN CAS	REVIEWED BY: E. N. RODEROS JR. ARCHITECT	S. B. BAYOT JR. HEAD PDU	ENDORSED BY: O. B. DELOS REYES DIRECTOR PLANNING AND DEPT. OFFICE	REC. APPROVAL: A. G. MAGGAWAS CVSU	J. X. B. NEPOMUCENO VP/AS CVSU	APPROVED BY: H. D. ROBLES PRES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: A - 7
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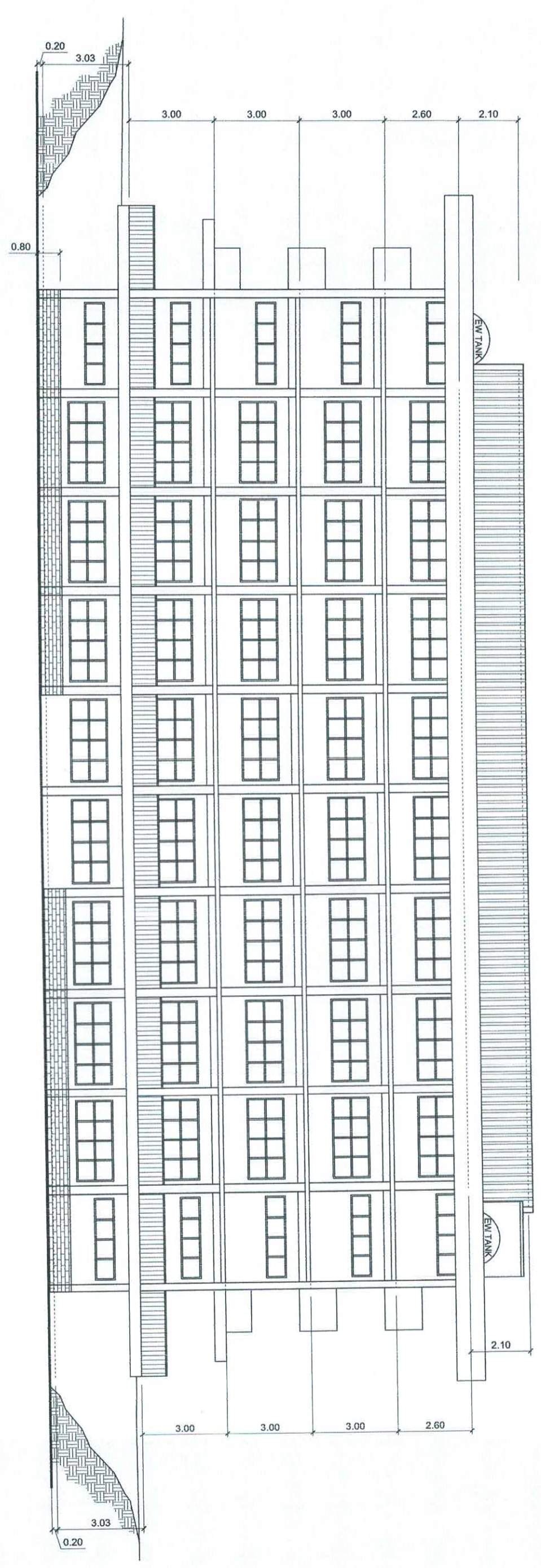
1
A/8 SCALE

FRONT ELEVATION

1 : 150 MTS.

 PREPARED BY: L. J. ESCANO <small>PDU / OVP/PS</small>	END USER: K. G. B. DESINGANO <small>DEAN / CAS</small>	REVIEWED BY: E. N. RODRIGOS JR. <small>ARCHITECT</small>	ENDORSED BY: O. B. DELLOS REYES <small>SECTOR / PLANNING AND DEPT. OFFICE</small>	REC. APPROVAL: A. G. MAGCAYAS <small>VPPD / CVSU</small>	APPROVED BY: H. D. ROBLES <small>VPPS / CVSU</small>	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING <small>MAIN CAMPUS</small>	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: A - 8
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(K) (J) (I) (H) (G) (F) (E) (D) (C) (B) (A)



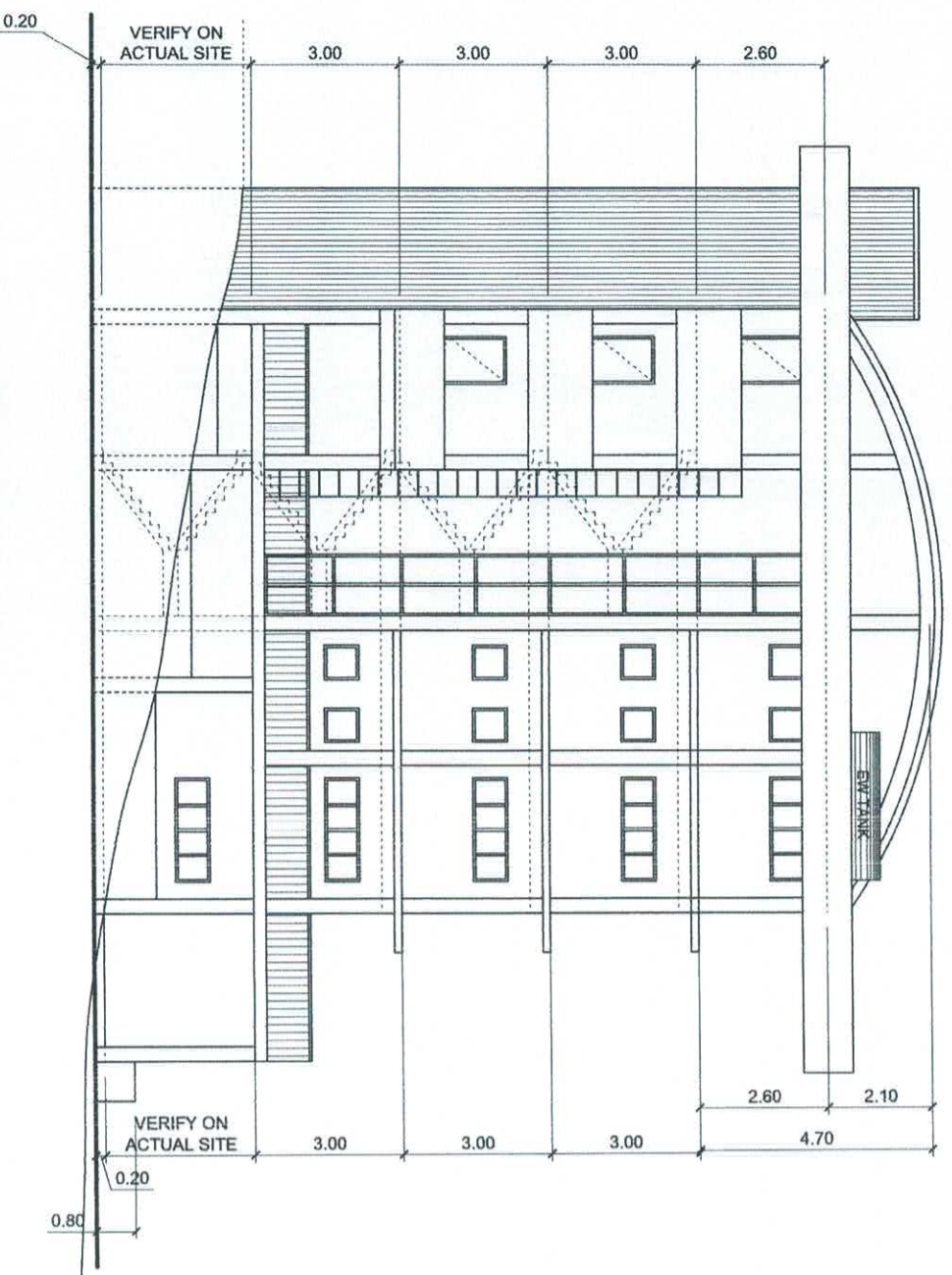
1
A9 SCALE

REAR ELEVATION

1 : 150 MTS.

 PREPARED BY: J. D. ESCANO PDU O/PPD	END USER: A. G. B. DESINGANO DEAN CAS	REVIEWED BY: E. N. RODRIGOS JR. ARCHITECT	S. B. BAYOT JR. PDU HEAD	ENDORSED BY: O. B. DELOS REYES DIRECTOR PLANNING AND DEPT. OFFICE	REC. APPROVAL: A. G. MAGDAMAS V/PPD CVSU	APPROVED BY: J. X. B. NEPOMUCENO V/PPD CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: A - 9
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1 2 3 4 5

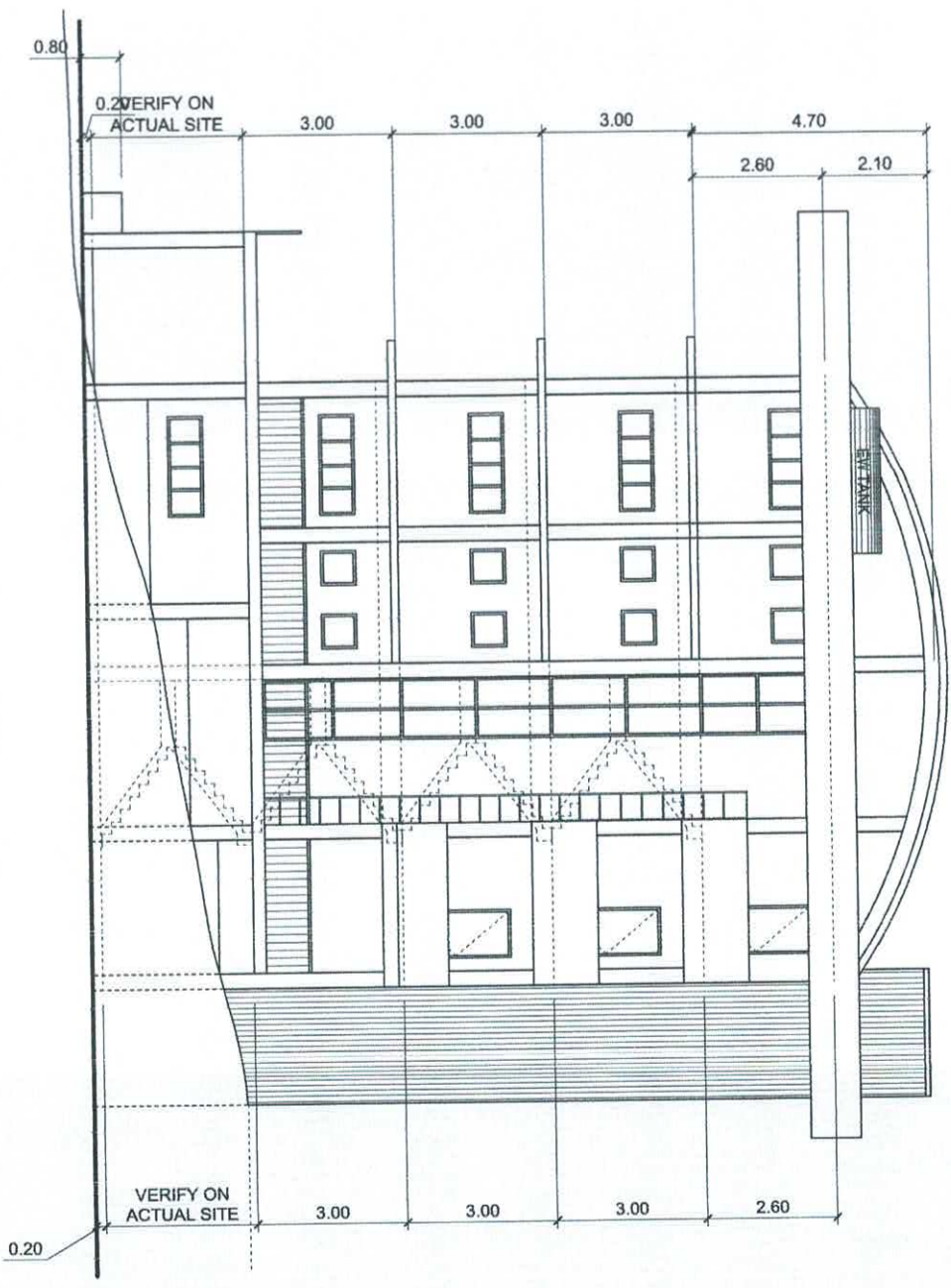


1
A/10 SCALE

RIGHT SIDE ELEVATION

1 : 150 MTS.

5 4 3 2 1

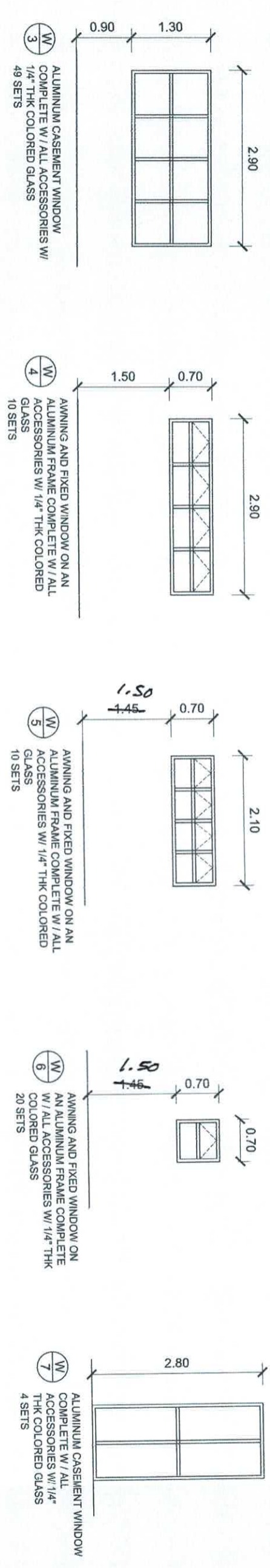
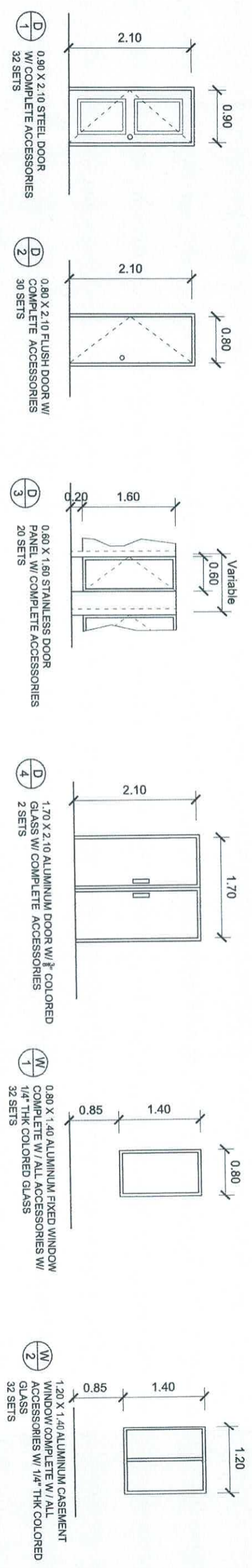


2
A/10 SCALE

LEFT SIDE ELEVATION

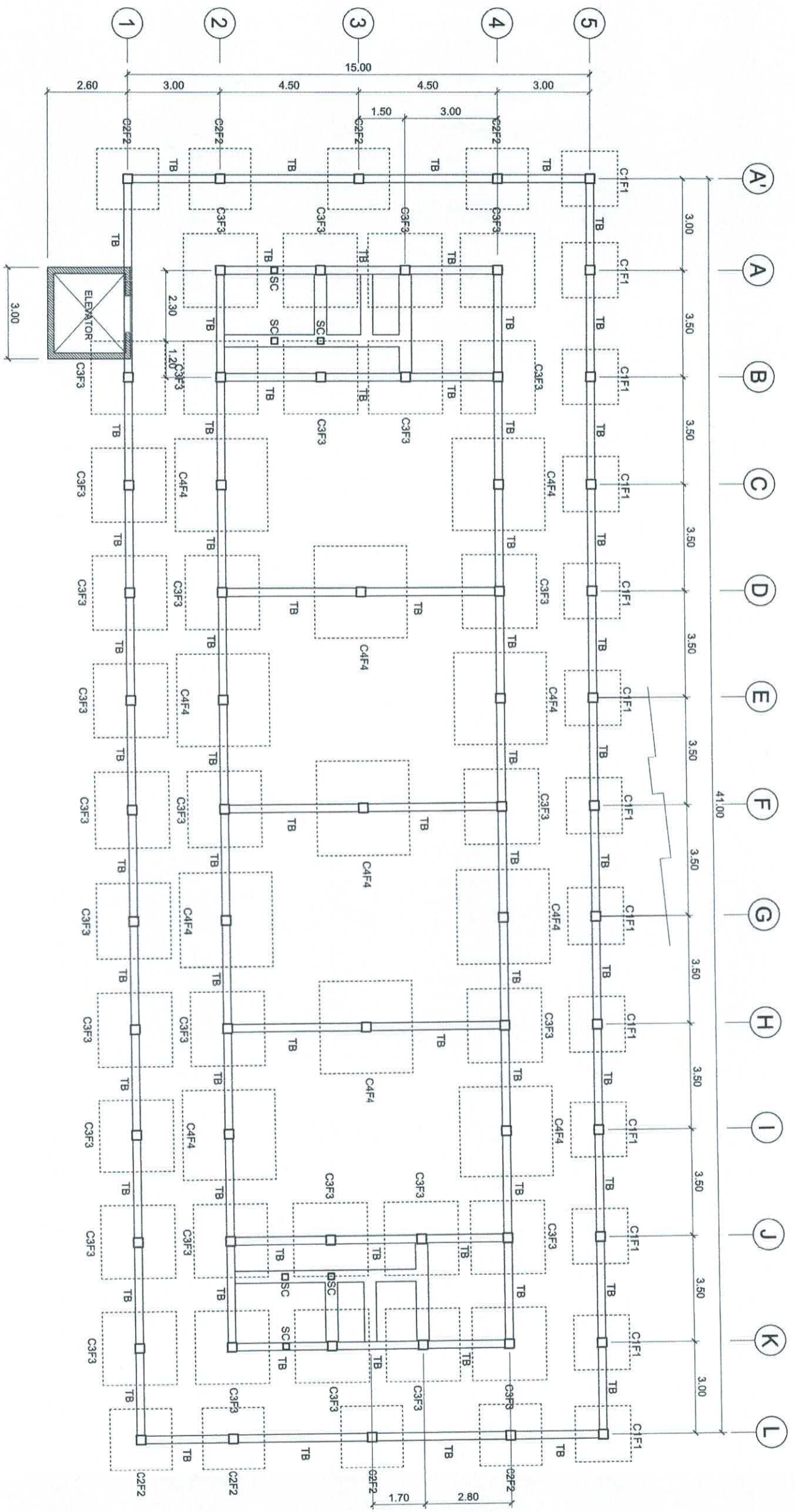
1 : 150 MTS.

	PREPARED BY: J. D. ESCANO PDU	END USER: A. G. B. DESINGANO DEAN	REVIEWED BY: E. N. RODEROS, JR. ARCHITECT	S. B. BAYOT JR. HEAD PDU	ENDORSED BY: O. B. DELOS REYES DIRECTOR PLANNING AND DEVL. OFFICE	REC. APPROVAL: A. G. MAGCAYAS VPPD	J. X. B. NEPOMUCENO VPASS	APPROVED BY: H. D. ROBLES PRES.	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: A - 10
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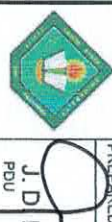
1
SCHED. OF DOORS AND WINDOWS
 SCALE
 A111
 1 : 75 MTS.

 PREPARED BY: J. D. ESCANO PDU	END USER: A. G. B. DESIGNANO DEAN	REVIEWED BY: E. N. RODRIGOS JR. ARCHITECT	ENDORSED BY: S. B. BAYOT JR. PDU	REC. APPROVAL: O. B. DELLOS REYES PLANNING AND DEVT. OFFICE	APPROVED BY: A. G. MAGAWAS CVSU	APPROVED BY: J. X. B. NEPOMUCENO CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: A - 11
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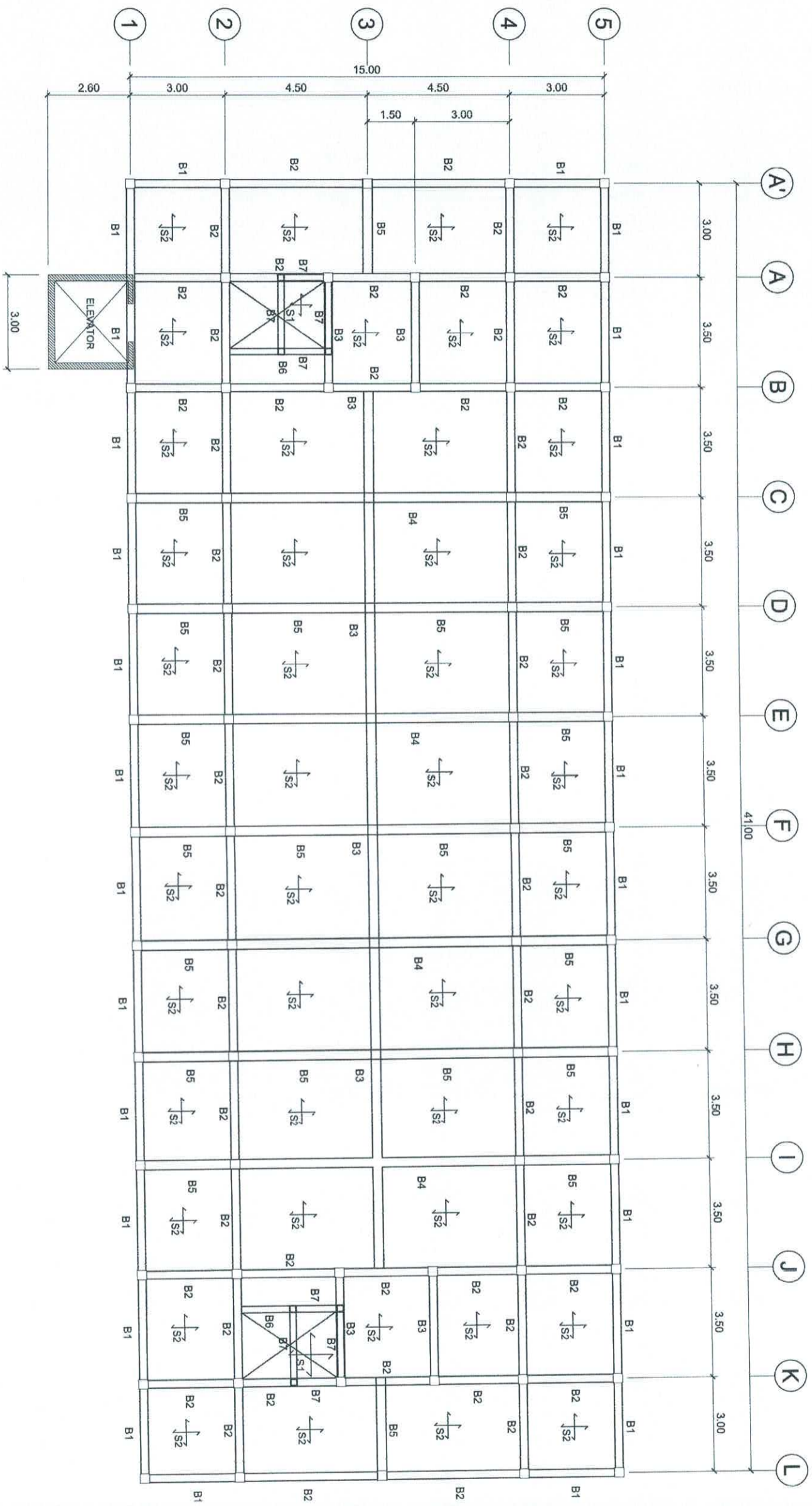
1/2 SCALE
FOUNDATION PLAN
1 : 150 MTS.

PREPARED BY: J. D. ESCANO
END USER: A. G. B. DESINGNO
REVIEWED BY: M. A. DAGASDAS, JR., MEND. STRUCTURAL ENGINEER
ENDORSED BY: O. B. DELOS REYES
REC. APPROVAL: A. G. MAGCAYAS
APPROVED BY: H. D. ROBLES
PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING
IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY



PDU: J. D. ESCANO
DEAN: A. G. B. DESINGNO
CAS: M. A. DAGASDAS, JR., MEND. STRUCTURAL ENGINEER
PDU: S. B. BAYOT JR.
DIRECTOR: O. B. DELOS REYES
PLANNING AND DEPT. OFFICE
VP/PPD: A. G. MAGCAYAS
CVSU
VP/ASS: J. X. B. NERDOMINGENO
CVSU
ENR: H. D. ROBLES
CVSU
MAIN CAMPUS

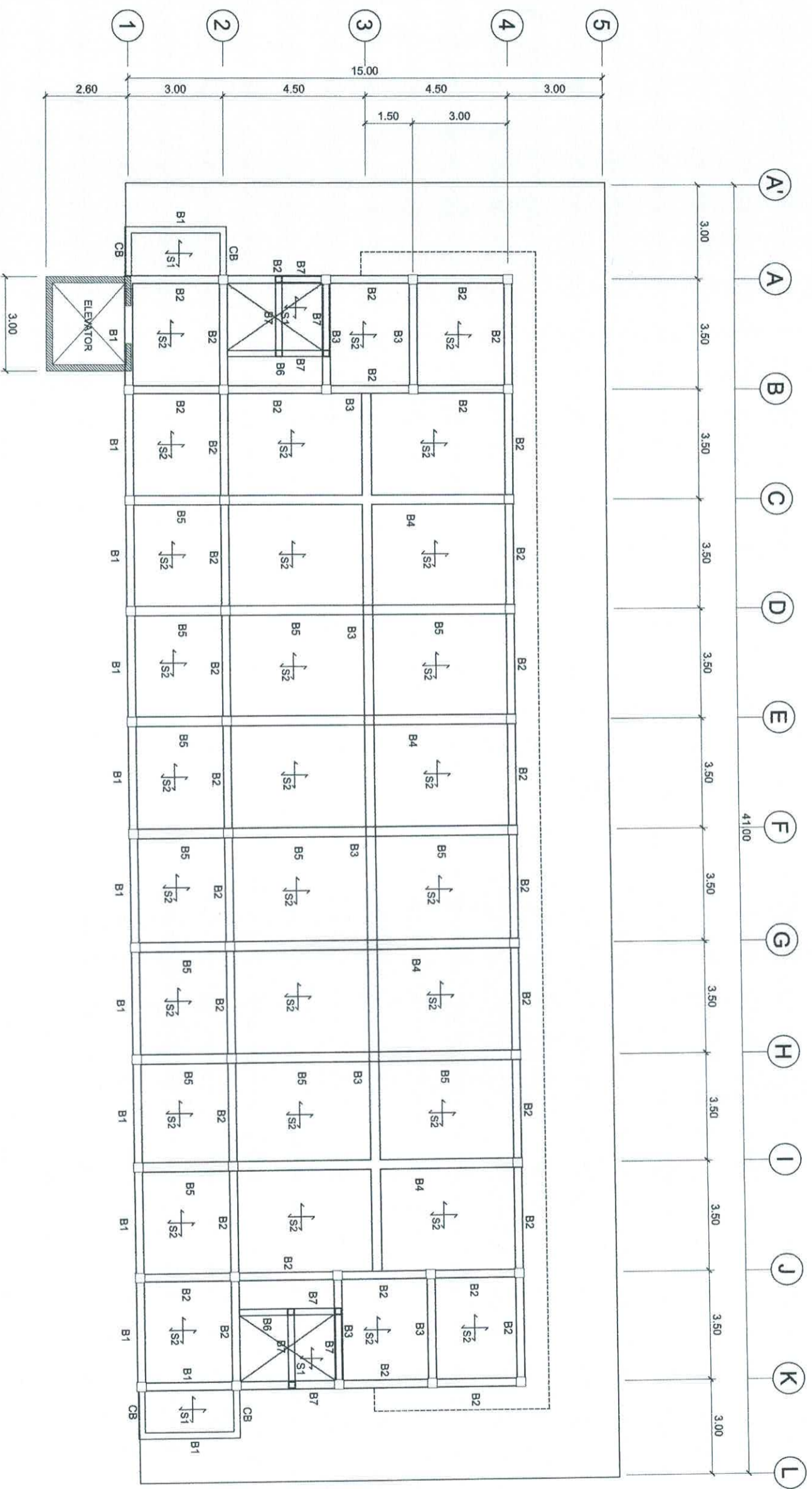
SHIT NO: S-2



1
S3

UPPER GROUND FLR. BEAM FRAMING PLAN
SCALE 1 : 150 MTS.


 PREPARED BY: J. D. ESCANO OVP/PPD	END USER: A. G. B. DESINGANO DEAN	REVIEWED BY: M. A. DAGASDAS, JR., MENG. STRUCUS M. PICE, M. ASER, M. ISSEP STRUCTURAL ENGINEERS	ENDORSED BY: S. B. BAYOT JR. HEAD PDU	REC. APPROVAL: O. B. BELOS REYES DIRECTOR PLANNING AND DEPT. OFFICE	APPROVED BY: A. G. MAGAWAS V/PPD	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: S - 3
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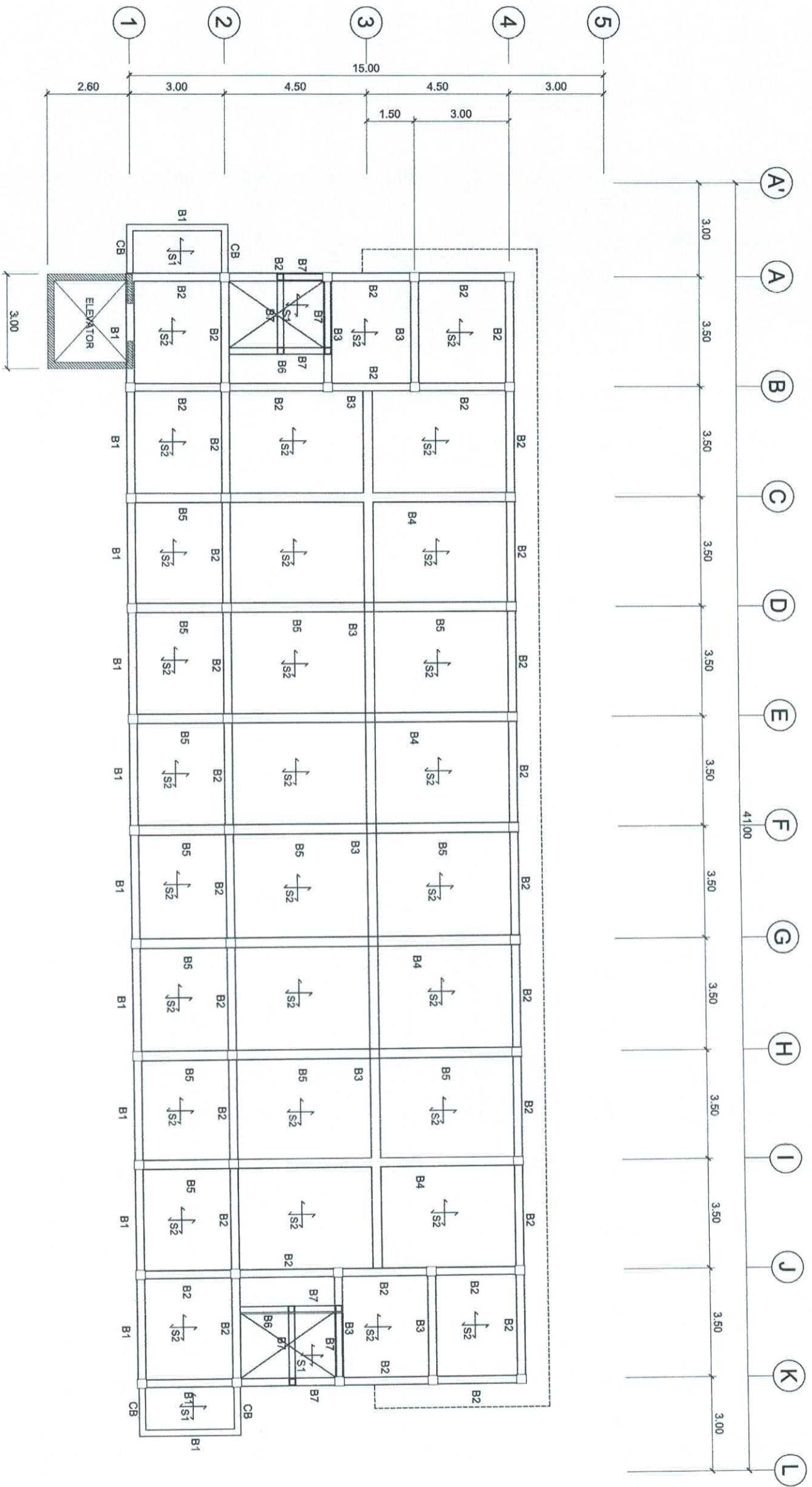


1
S4 SCALE

THIRD FLOOR BEAM FRAMING PLAN

1 : 150 MTS.

 PREPARED BY: J. B. ESCANO OVP/PPD	END USER: A. G. B. DESINGRANO DEAN	REVIEWED BY: M. A. DAGASDAS, JR., MENG ISTUDIS M. PICE, M. ASER, M. ISSEP STRUCTURAL ENGINEER	ENDORSED BY: S. B. BAYOT JR. HEAD PDU	REC. APPROVAL: O. B. DELOS REYES DIRECTOR PLANNING AND DEV. OFFICE	APPROVED BY: A. G. MAGCAYANAS VPPD	APPROVED BY: J. X. B. NEPOMUCENO CVSU	APPROVED BY: M. D. ROBLES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: S - 4
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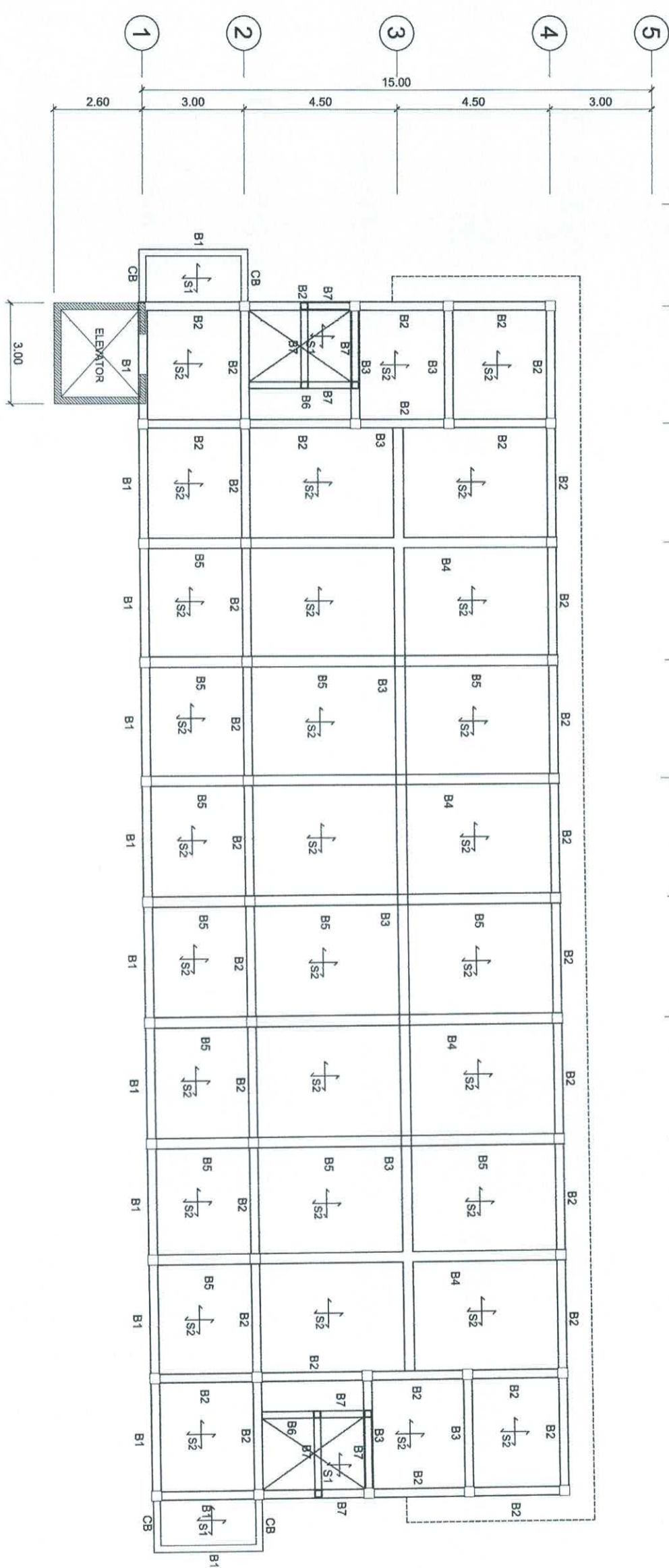
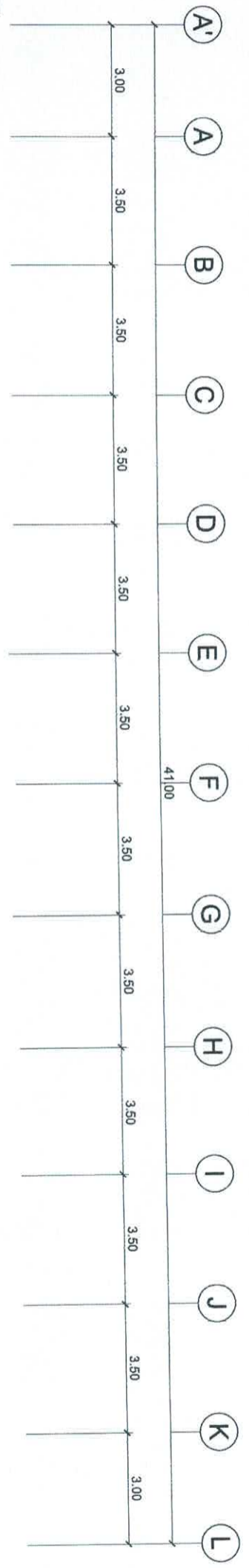


1
S5
SCALE

FOURTH FLOOR BEAM FRAMING PLAN

1 : 150 MTS.

 PREPARED BY: J. D. ESCANO OVP/PPD PDU	END USER: A. G. B. DESINGANO DEAN CAS	REVIEWED BY: M. A. DAGASDAS, JR., MENG. ISTUCES M. PICE, M. ASER, M. SISSEP STRUCTURAL ENGINEER	ENDORSED BY: S. B. BAYON JR. HEAD PDU	DIRECTOR O. B. DELOS REYES PLANNING AND DEPT. OFFICE	REC. APPROVAL: A. G. MAGDAWAS VPPD CVSU	VPPAS J. X. B. NEPOMUCENO CVSU	APPROVED BY: H. D. ROBLES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: S - 5
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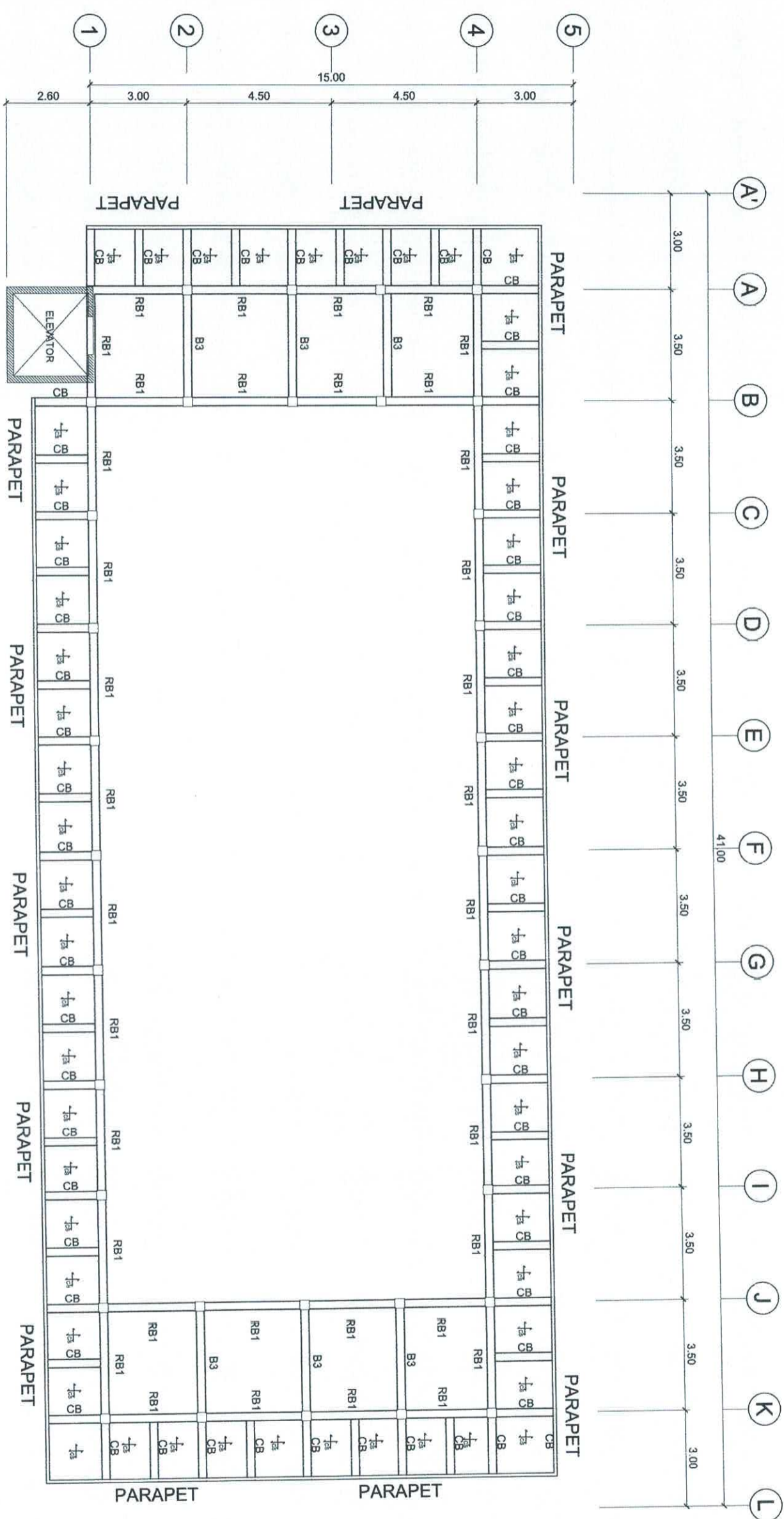


1
S6 SCALE

ROOF DECK BEAM FRAMING PLAN


1 : 150 MTS.

 PREPARED BY: J. D. ESCANO PDU / OVP/PPD	END USER: A. G. B. DESINGANO DEAN / CAS	REVIEWED BY: M. A. DAGASDAS, JR., MENG STRUCTURAL ENGINEER	ENDORSED BY: S. B. BAYOT JR. PDU / DIRECTOR	REC. APPROVAL: A. G. MAGAWAS CVSU / VP/PPD	APPROVED BY: H. D. ROBLES CVSU / PRES	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHIT NO.: S - 6
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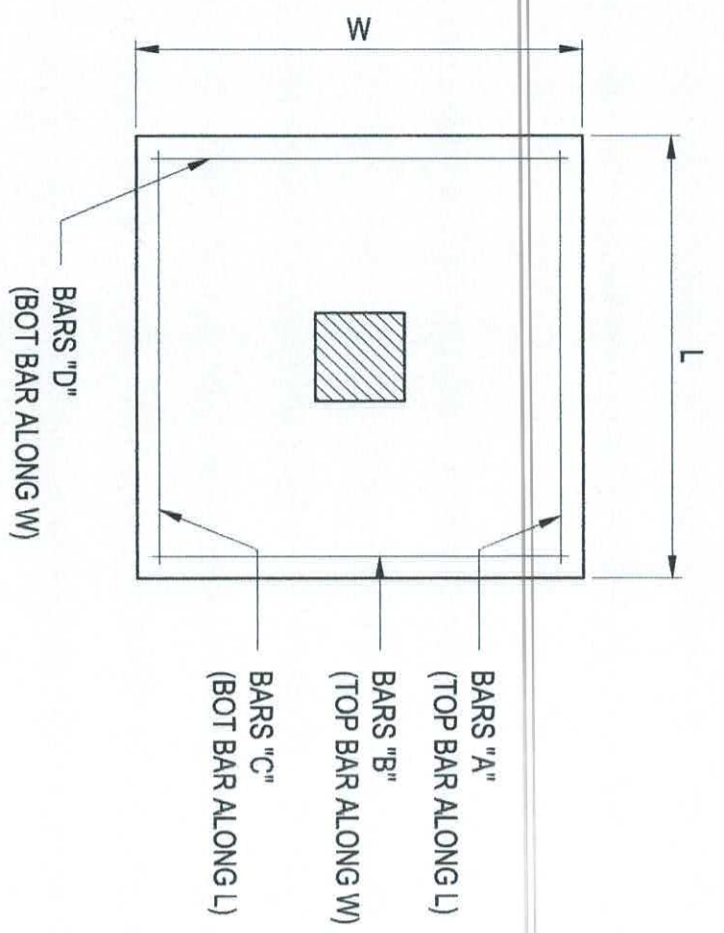


1
S7 SCALE

UPPER ROOF DECK BEAM FRAMING PLAN
1 : 150 MTS.

 PREPARED BY: J. D. ESCANO OVP/PPD	END USER: A. G. B. DESINGANO DEAN	REVIEWED BY: M. A. DAGASPAS, JR., MENG. STRUCTURAL ENGINEER	ENDORSED BY: S. B. BAYOT JR. POU	REC. APPROVAL: A. G. MAGDAMAS CVSU	APPROVED BY: H. D. ROBLES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: S - 7
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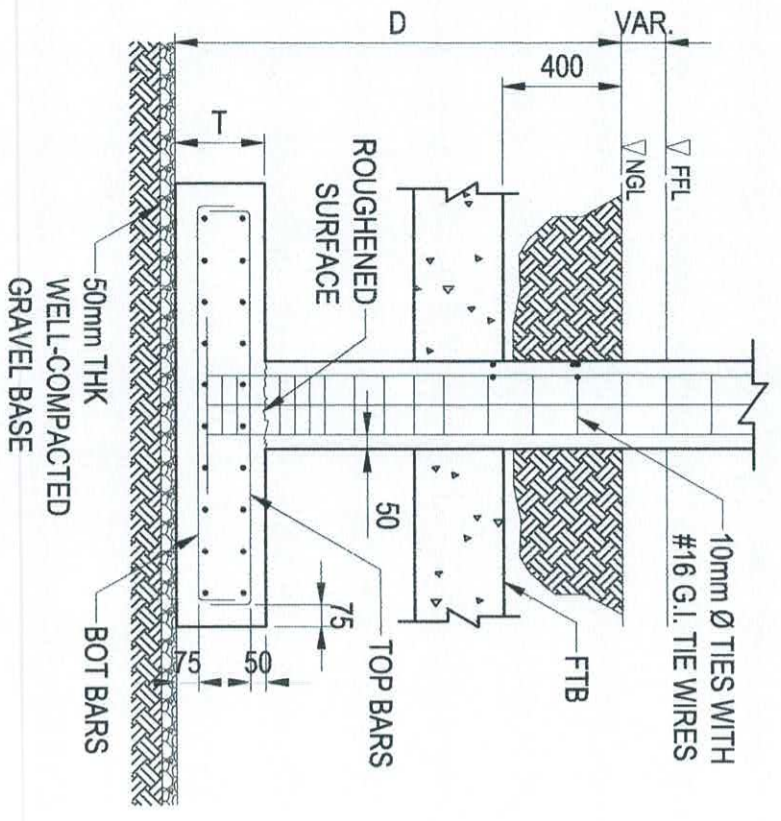
SCHEDULE OF FOOTING



MARK	D (DEPTH) (mm)	T (THICKNESS) (mm)	L (LENGTH) (mm)	W (WIDTH) (mm)	REINFORCEMENT				REMARKS
					TOP	BOTTOM			
F1	2000	300	1800	1800	"A"	"B"	"C"	"D"	
F2	2000	300	2000	2000	-	-	16 - 16 mm Ø	16 - 16 mm Ø	
F3	2000	400	2400	2400	18 - 12 mm Ø	18 - 12 mm Ø	18 - 16 mm Ø	18 - 16 mm Ø	
F4	2000	400	3000	3000	24 - 12 mm Ø	24 - 12 mm Ø	24 - 16 mm Ø	24 - 16 mm Ø	

SCHEDULE OF COLUMNS

LEVEL	C1	C2	C3	C4	SC	LATERAL TIES
FOOTING TO SECOND FLOOR						10mm Ø R. S. B. TIES @ 2-50mm, 4-75mm, 6-100mm, REST @ 200mm O.C.
SECOND FLOOR TO FOURTH FLOOR						
FOURTH FLOOR TO TOP OF ROOF BEAM						



SECTION

1
8 SCALE

SCH. OF COLUMN AND COLUMN FOOTING

N.T.S.


	PREPARED BY: J. D. ESCANO OVP/PPD PDU	END USER: A. G. B. DESINGANO DEAN CAS	REVIEWED BY: M. A. DAGASDAS, JR., MENG STRUCTURAL ENGINEER	ENDORSED BY: O. B. DELOS REYES PLANNING AND DEV. OFFICE	REC. APPROVAL: A. G. MAGCAYAS VFPD CVSU	APPROVED BY: A. D. ROBLES PRES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: S - 8
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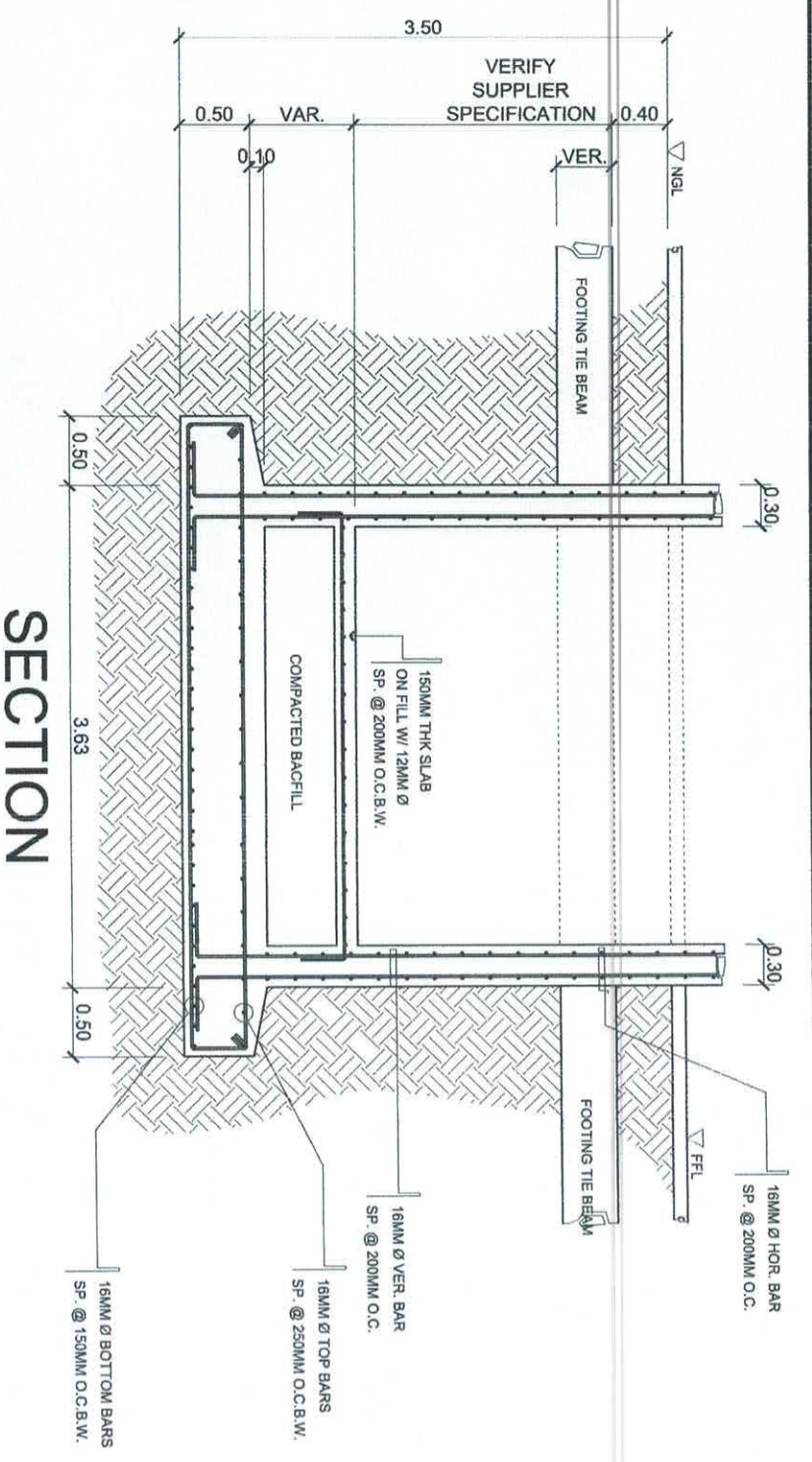
BEAM	DIMENSION	SUPPORT		MID-SPAN		BAR ARRANGEMENT		STIRRUPS REMARKS	ADDT. REMARKS
		TOP	BOTTOM	TOP	BOTTOM	SUPPORT	MID-SPAN		
B-1	250mm X 400mm	3 - 16 MM Ø	2 - 16 MM Ø	2 - 16 MM Ø	3 - 16 MM Ø			10mm Ø STIRRUPS 2 - 50mm, 4 - 75mm, 6 - 100mm REST @ 200mm O.C.	USE 2 - 10mm Ø STIFFENER BARS
B-2	250mm X 400mm	5 - 16 MM Ø	3 - 16 MM Ø	3 - 16 MM Ø	5 - 16 MM Ø			10mm Ø STIRRUPS 2 - 50mm, 4 - 75mm, 6 - 100mm REST @ 200mm O.C.	- DO -
B-3	300mm X 500mm	6 - 25 MM Ø	3 - 25 MM Ø	3 - 25 MM Ø	6 - 25 MM Ø			10mm Ø STIRRUPS 4 - 50mm, 6 - 75mm, 6 - 100mm REST @ 200mm O.C.	- DO -
B-4	300mm X 450mm	6 - 25 MM Ø	3 - 25 MM Ø	3 - 25 MM Ø	6 - 25 MM Ø			10mm Ø STIRRUPS 4 - 50mm, 6 - 75mm, 6 - 100mm REST @ 200mm O.C.	- DO -
B-5	300mm X 450mm	5 - 16 MM Ø	3 - 16 MM Ø	3 - 16 MM Ø	5 - 16 MM Ø			10mm Ø STIRRUPS 2 - 50mm, 4 - 75mm, 6 - 100mm REST @ 200mm O.C.	- DO -
B-6	200mm X 300mm	2 - 16 MM Ø	2 - 16 MM Ø	2 - 16 MM Ø	2 - 16 MM Ø			10mm Ø STIRRUPS 2 - 50mm, 4 - 75mm, 6 - 100mm REST @ 200mm O.C.	- DO -
B-7	200mm X 300mm	2 - 16 MM Ø	2 - 16 MM Ø	2 - 16 MM Ø	2 - 16 MM Ø			10mm Ø STIRRUPS 2 - 50mm, 4 - 75mm, 6 - 100mm REST @ 200mm O.C.	- DO -
RB-1	250mm X 400mm	3 - 16 MM Ø	2 - 16 MM Ø	2 - 16 MM Ø	3 - 16 MM Ø			10mm Ø STIRRUPS 2 - 50mm, 4 - 75mm, 6 - 100mm REST @ 200mm O.C.	- DO -
CB	250mm X 400mm	5 - 16 MM Ø	2 - 16 MM Ø	5 - 16 MM Ø	2 - 16 MM Ø			10mm Ø STIRRUPS 2 - 50mm, 4 - 75mm, 6 - 100mm REST @ 200mm O.C.	- DO -
FTB	250mm X 400mm	3 - 16 MM Ø	3 - 16 MM Ø	3 - 16 MM Ø	3 - 16 MM Ø			10mm Ø STIRRUPS 2 - 50mm, 4 - 75mm, 6 - 100mm REST @ 200mm O.C.	- DO -

1
SCALE

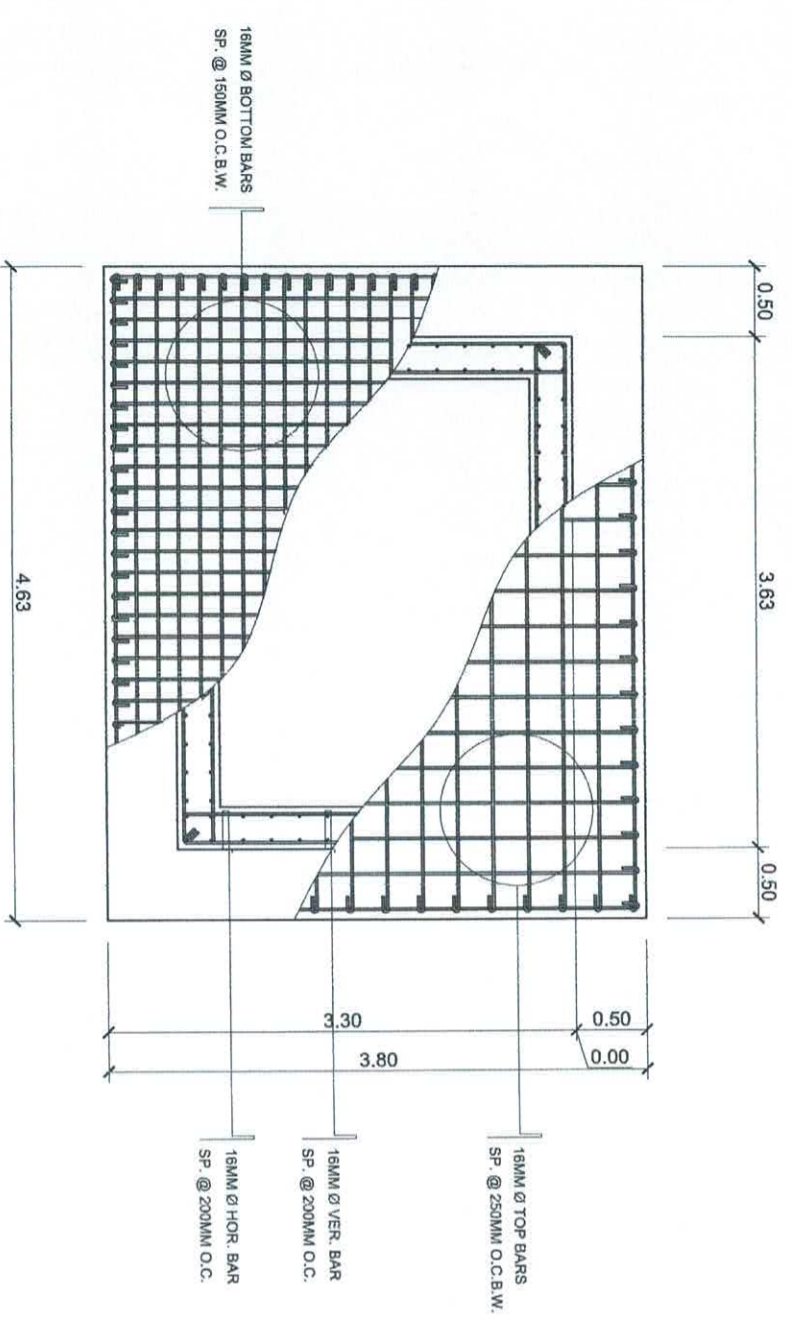
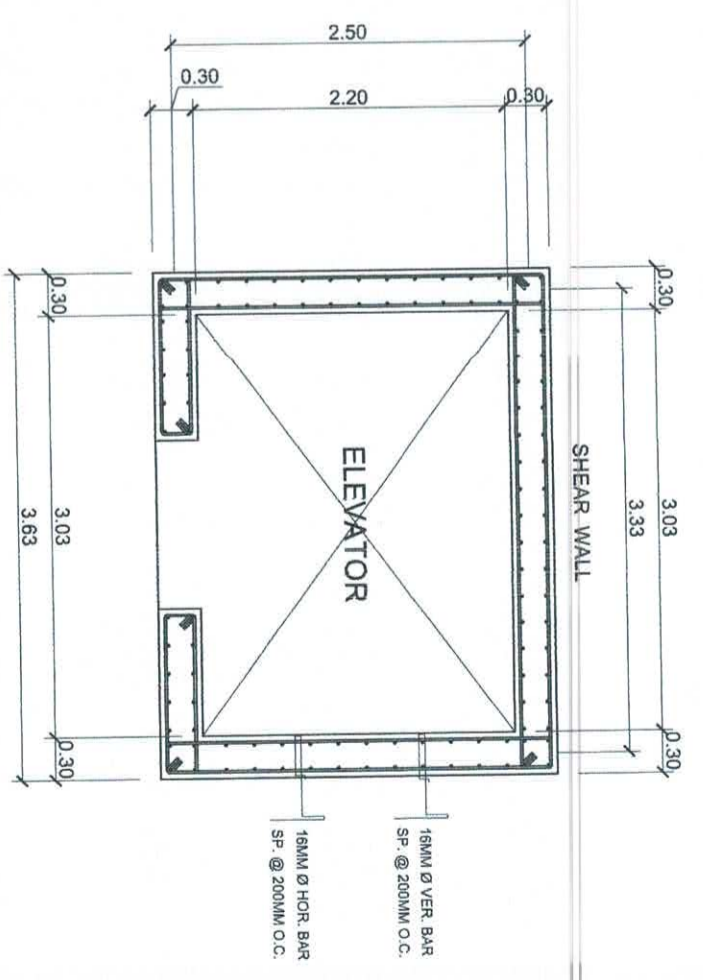
SCHEDULE OF BEAMS

N. T. S.

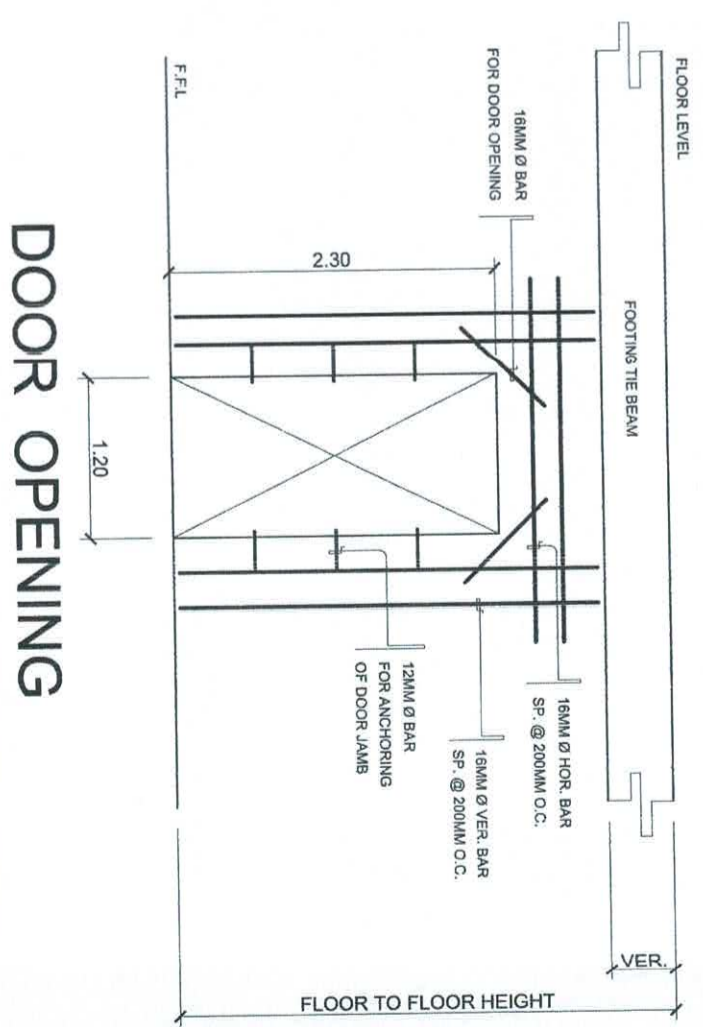
 PREPARED BY: J.D. ESCANO <small>PDU OVP/PPD</small>	END USER: <i>Rubdy's</i> <small>A. G. B. DESINGANO DEAN CAS</small>	REVIEWED BY: M. A. DAGASDAS, JR., MENG. <small>ISSUES M. PRICE, M. ASSEP, M. LISSEP STRUCTURAL ENGINEER</small>	ENDORSED BY: S. B. BAYOT JR. <small>PDU HEAD</small>	REC. APPROVAL: A. G. MAGDAWAS <small>V/PPD CVSU</small>	APPROVED BY: H. D. ROBLES <small>CHS CVSU</small>	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING <small>CAVITE STATE UNIVERSITY MAIN CAMPUS</small>	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: S - 9
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SECTION



PLAN



DOOR OPENING

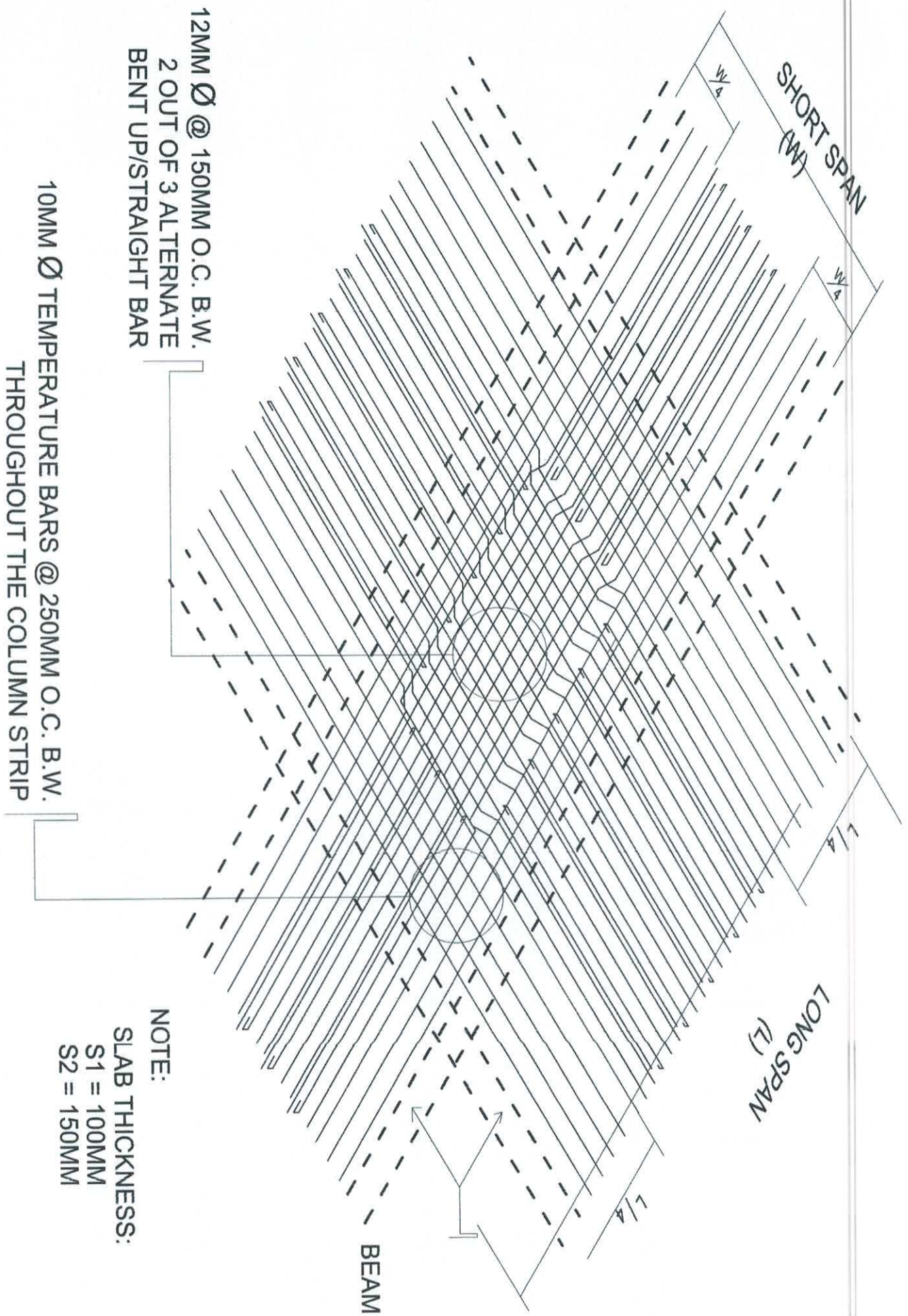
NOTE: ELEVATOR DESIGN MAY VARY WITH THE ELEVATOR SUPPLIER/DISTRIBUTOR. PLEASE VERIFY THE DESIGN WITH THE SUB-CONTRACTOR OF ELEVATOR.

1
SCALE


DET. OF ELEVATOR SHAFT

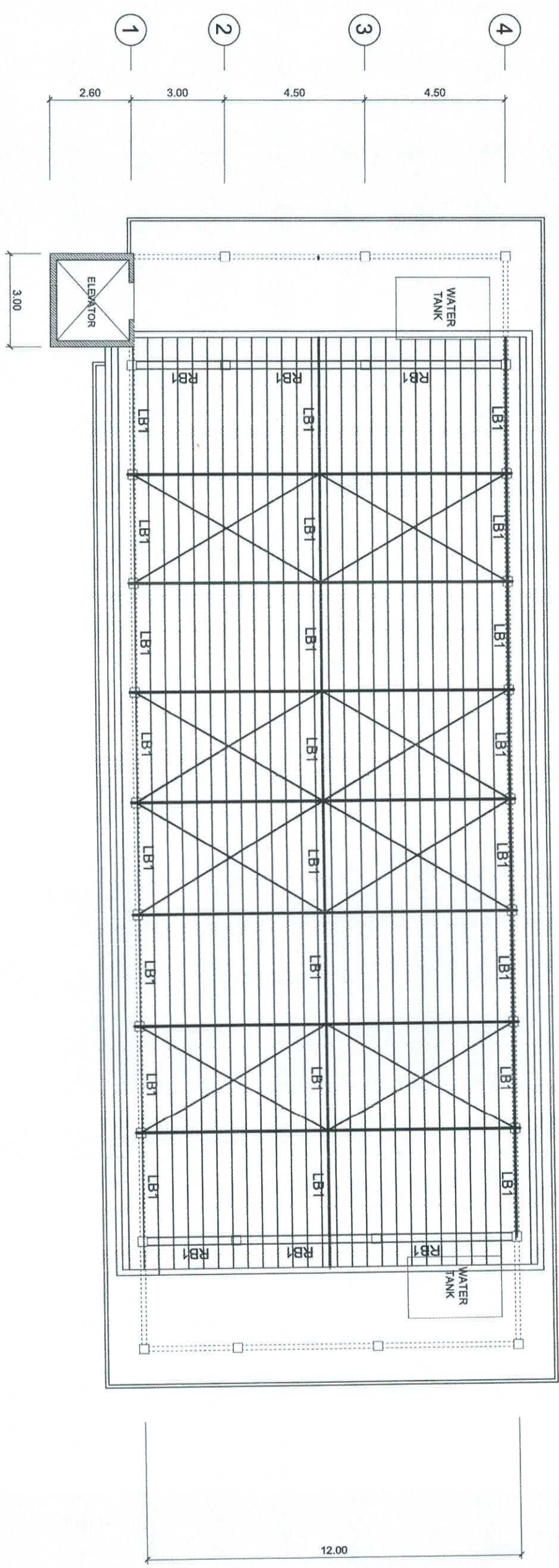
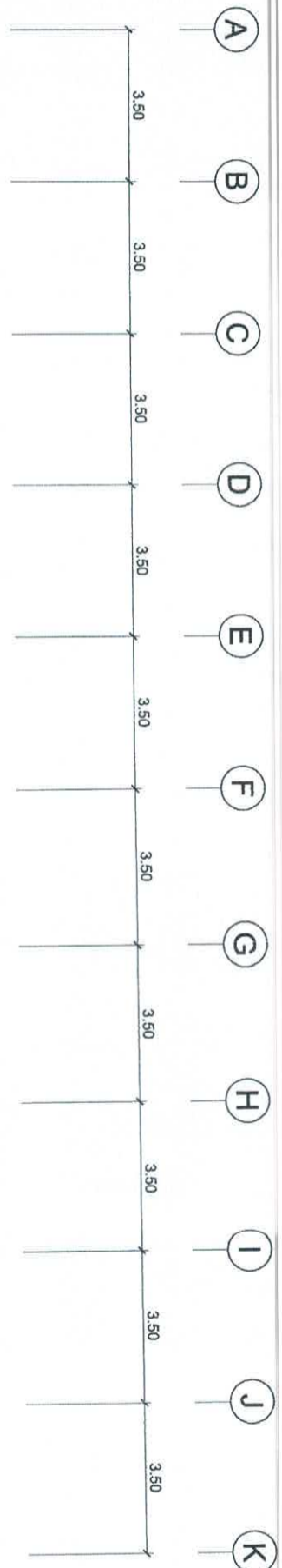
N.T.S.

 PREPARED BY: J. D. ESCANO PDU OVPD	END USER: M. G. B. DESINGANO DEAN CAS	REVIEWED BY: M. A. DAGASDAS, JR., MENG. STRUCTURAL ENGINEER	ENDORSED BY: S. B. BAYOT, JR. PDU	REC. APPROVAL: A. G. MAGCAYAS CVSU	APPROVED BY: H. D. ROBLES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: S - 10
O. B. DELOS REYES PLANNING AND DES. OFFICE	S. B. BAYOT, JR. PDU	A. G. MAGCAYAS CVSU	J. X. B. NERDOMICENO CVSU	GAVITE STATE UNIVERSITY	GAVITE STATE UNIVERSITY	GAVITE STATE UNIVERSITY	GAVITE STATE UNIVERSITY	



1 DET. OF SLAB REINFORCEMENT
SCALE **S11**
N. T. S.

 PREPARED BY: J. D. ESCANO PDU OVP/PP	END USER: A. G. B. DESINGANO DEAN CAS	REVIEWED BY: M. A. DAGASDAS, JR., MENG. ISINCES M. PICE M. ASEP. M. LISSEP STRUCTURAL ENGINEER	S. B. BAKOT, JR. PDU HEAD	ENDORSED BY: O. B. BELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	REC. APPROVAL: A. G. MAGCAYAS V/PPD CVSU	J. X. B. NEPOMUCENO VP/ASB CVSU	APPROVED BY: H. D. ROBLES PRES. CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: S - 11
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1
S12 SCALE
1 : 150 MTS.

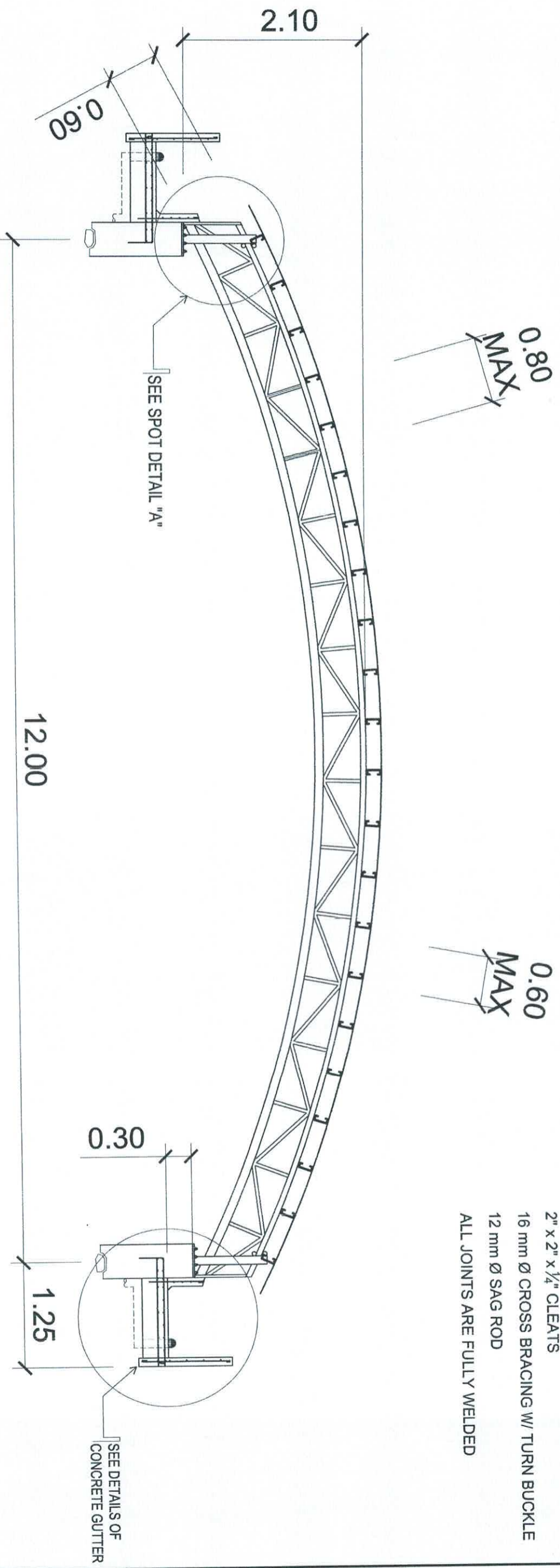
ROOF FRAMING PLAN

 PREPARED BY: J.D. ESCANO PDU O/PPD	END USER: Atg. B. DESINGANO DEAN CAS	REVIEWED BY: M.A. DAGASDAS, JR., MENG ISSUES M.PICE, M.ASEP, M.LISSEP STRUCTURAL ENGINEER	ENDORSED BY: S. B. BAYOT JR. PDU HEAD	REC. APPROVAL: O. B. DELOS REYES PLANNING AND DEPT. OFFICE DIRECTOR	APPROVED BY: A. G. MAGCAYAS CVSU V/PPD	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: S - 12
APPROVED BY: A. D. ROBLES CVSU PRES	APPROVED BY: J. K. B. NEPOMUCENO CVSU VPASS	APPROVED BY: A. G. MAGCAYAS CVSU V/PPD	APPROVED BY: O. B. DELOS REYES PLANNING AND DEPT. OFFICE DIRECTOR	APPROVED BY: S. B. BAYOT JR. PDU HEAD	APPROVED BY: M.A. DAGASDAS, JR., MENG ISSUES M.PICE, M.ASEP, M.LISSEP STRUCTURAL ENGINEER	APPROVED BY: Atg. B. DESINGANO DEAN CAS	APPROVED BY: J.D. ESCANO PDU O/PPD	APPROVED BY: 


NOTES:

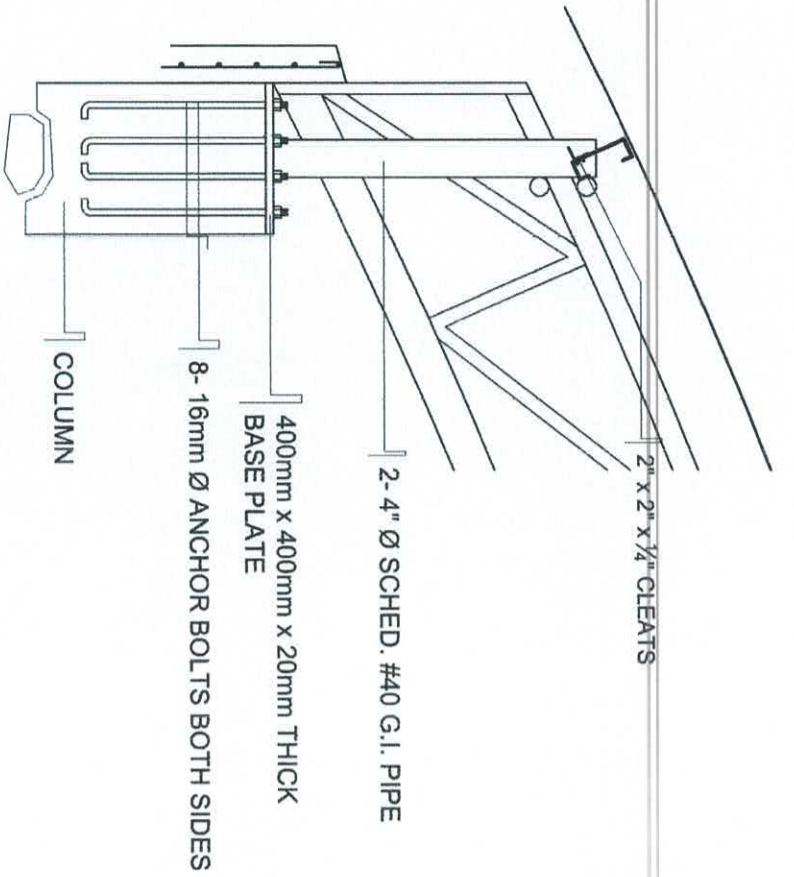
USE THE FOLLOWING:

- TOP CHORDS - 2 1/2" Ø SCHED. 40 G.I PIPE
- BOTTOM CHORDS - 3" Ø SCHED. 40 G.I PIPE
- WEB MEMBERS - 2 1/2" Ø SCHED. 40 G.I PIPE
- 2" x 6" X 1.5mm THK CEE PURLINS W/
- 2" x 2" x 1/4" CLEATS
- 16 mm Ø CROSS BRACING W/ TURN BUCKLE
- 12 mm Ø SAG ROD
- ALL JOINTS ARE FULLY WELDED



1
S/13 SCALE
DETAILS OF ROOF TRUSSES
1 : 50 MTS.

 PREPARED BY: J. D. ESCANO OVP/PPD PDU	END USER: A. G. B. DESINGANO CAS DEAN	REVIEWED BY: M. A. DAGASDAS, JR., MENG. ISSUES M. PICE, M. ASER, M. ISSEP STRUCTURAL ENGINEER	ENDORSED BY: S. B. BAYOT JR. PDU HEAD	REC. APPROVAL: O. B. DELOS REYES VP/PPD PLANNING AND DEVT. OFFICE	APPROVED BY: A. G. MAGCAYAS CVSU VP/PPD	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: S - 13
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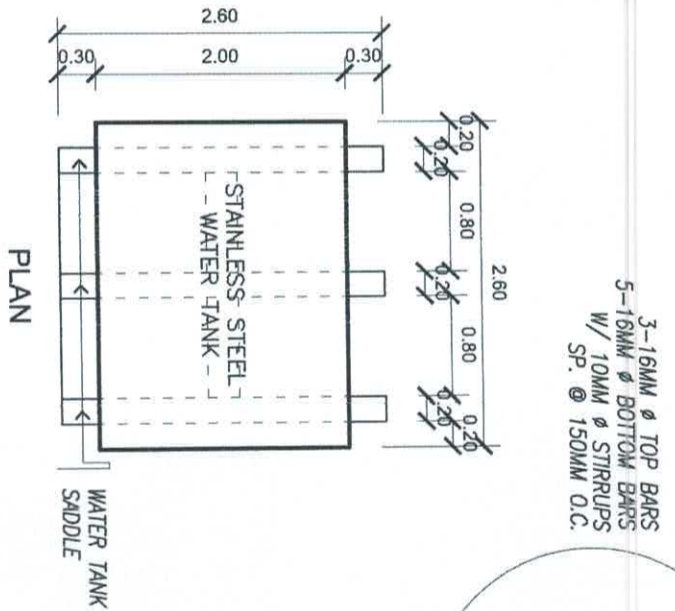


1
S14

SCALE

SPOT DETAIL "A"

N.T.S.



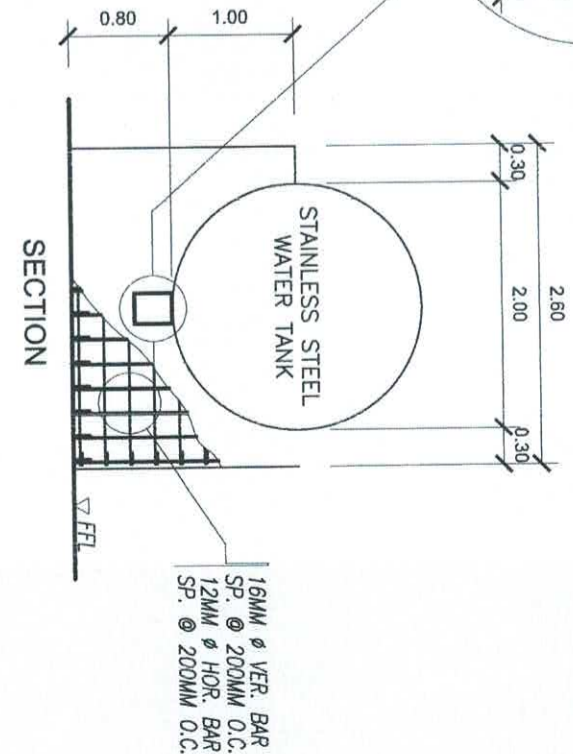
PLAN

2
S14

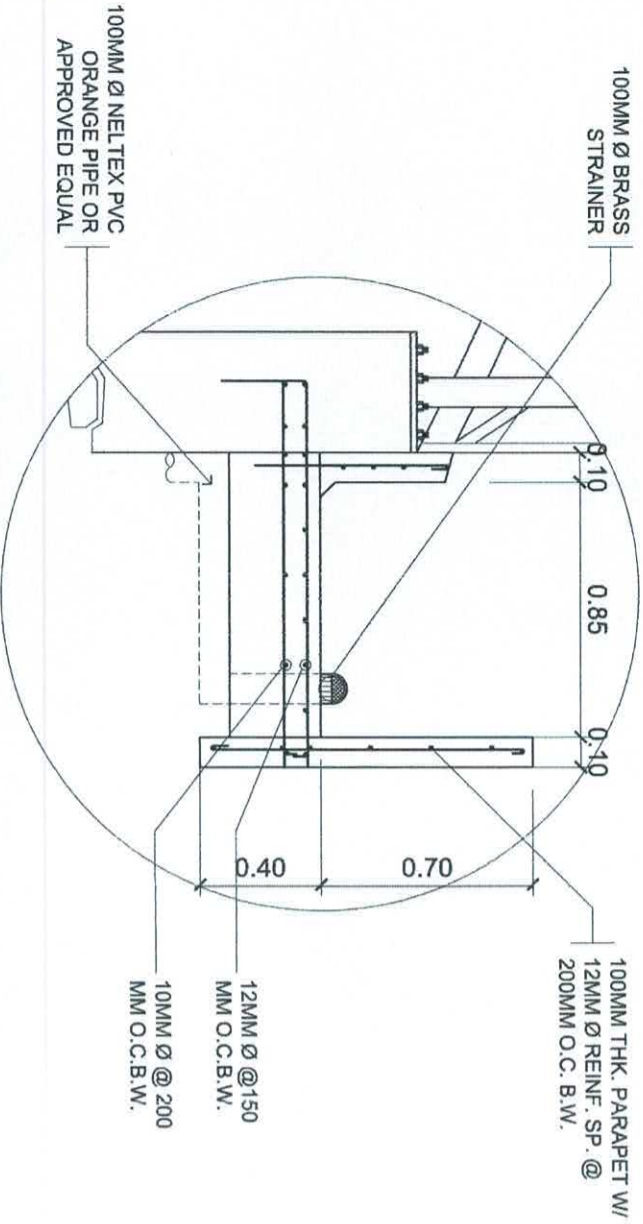
SCALE

DET. OF WATER TANK SADDLE

N.T.S.



SECTION

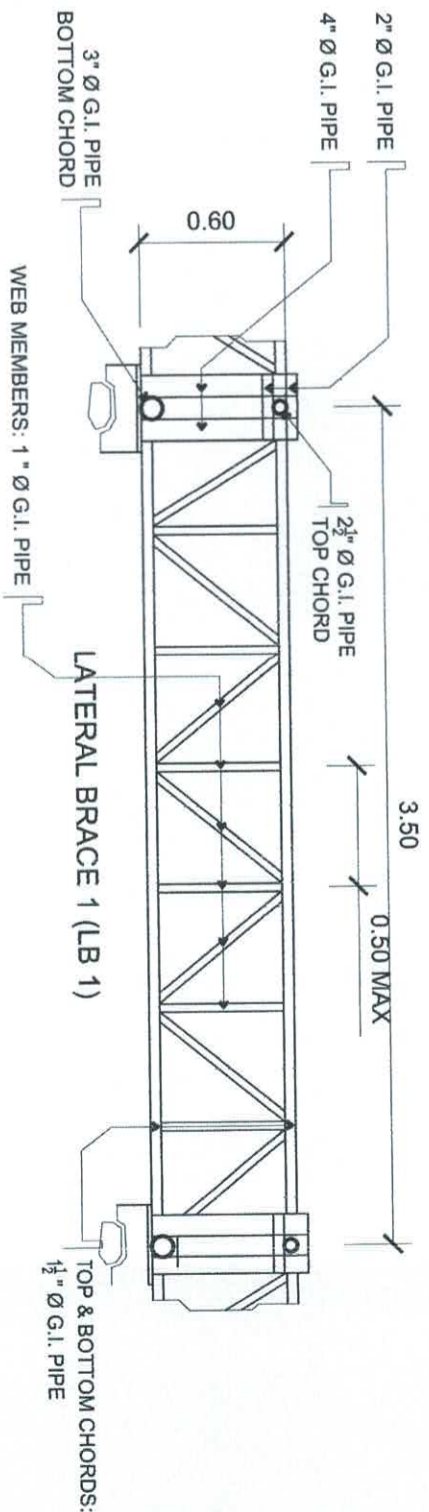


3
S14

SCALE

DET. OF CONCRETE GUTTER

N.T.S.


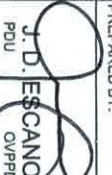

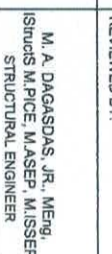


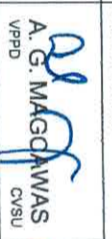




4
S14

SCALE

DET. OF LATERAL BRACE

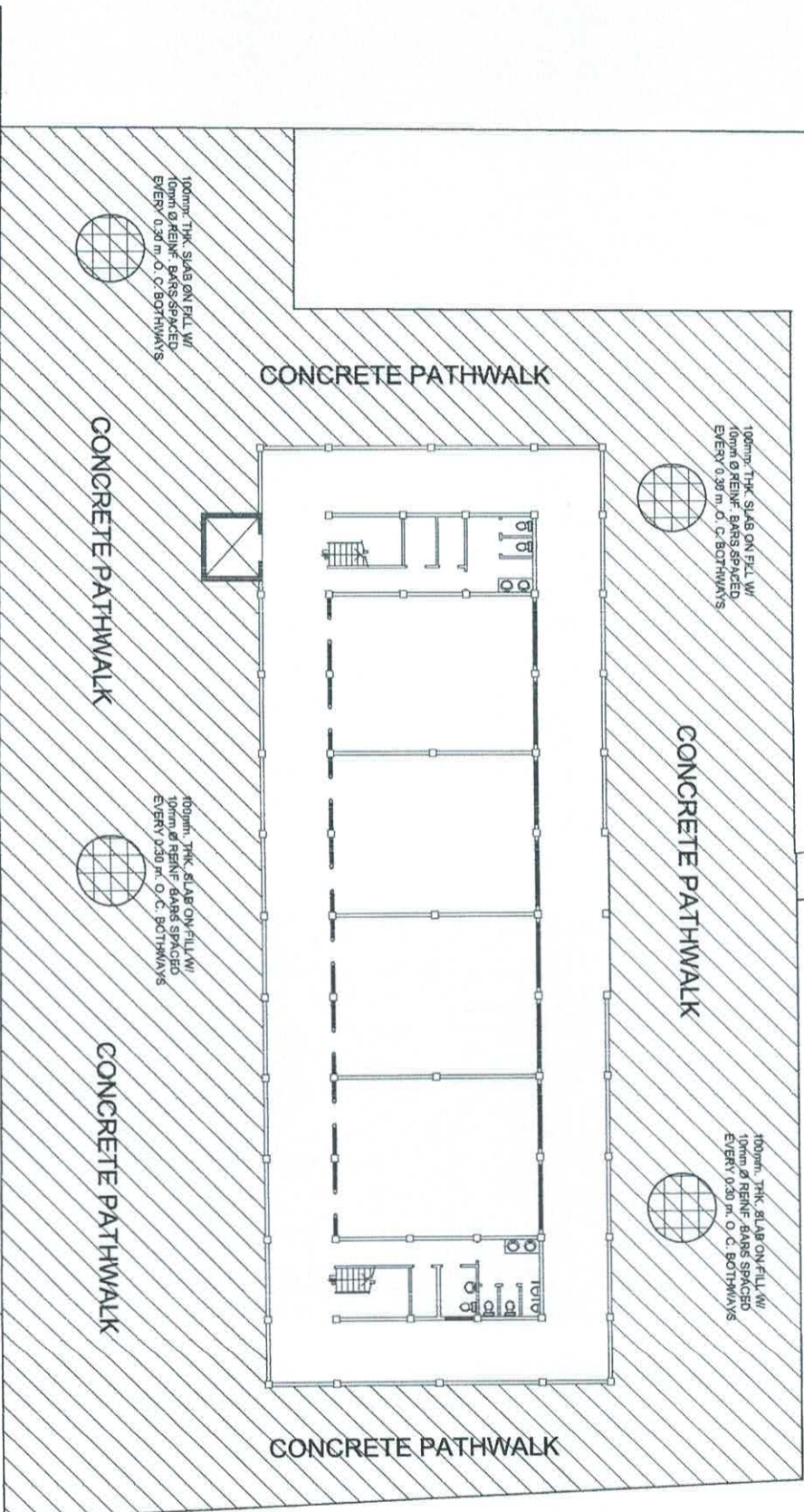
N.T.S.

	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/LOCATION:	IMPLEMENTING AGENCY:	SHT NO.:
	 J.D. ESCANO POU / OVP/PPD	 K.G.B. DESINANO DEAN / CAS	 M.A. DAGASDAS, JR. STRUCTURAL ENGINEER	 S.B. BAYOT JR. POU / HEAD	 O.B. DELOS REYES PLANNING AND DEPT. OFFICE / DIRECTOR	 A.G. MAGDAWAS CVSU / V/PPD	 J.X.B. NEPOMUCENO CVSU / V/ASS	 A.D. ROBLES CVSU / PRES	COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS

PHYSICAL SCIENCES BLDG.

BIOLOGICAL SCIENCES BLDG.

COLLEGE OF ARTS AND SCIENCES

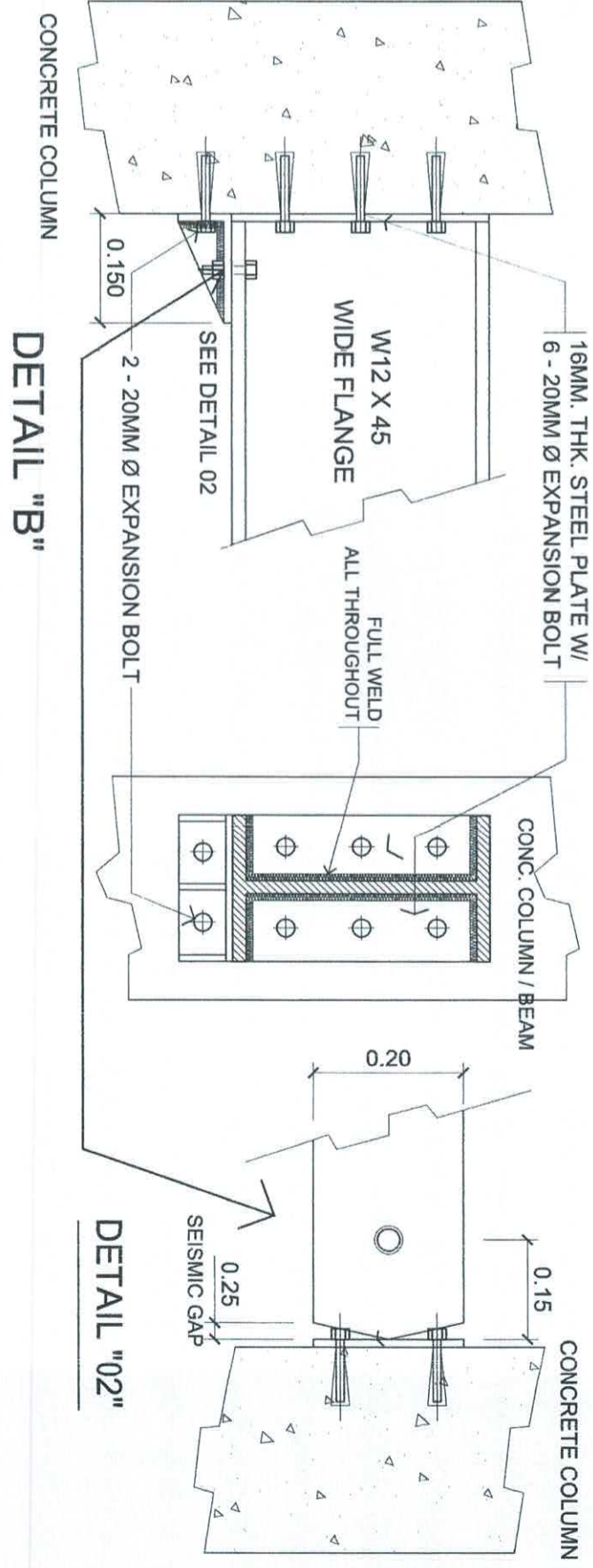
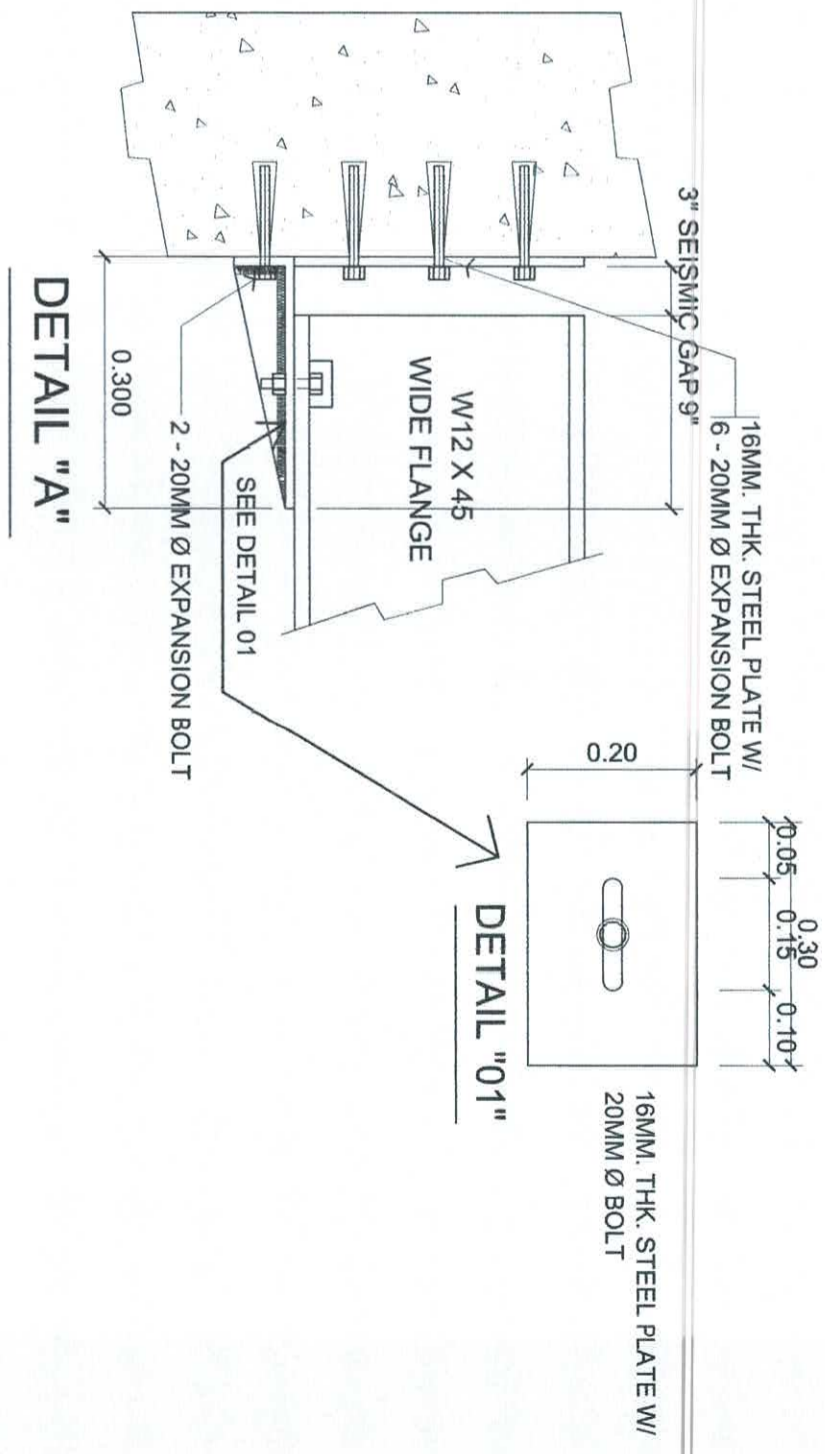
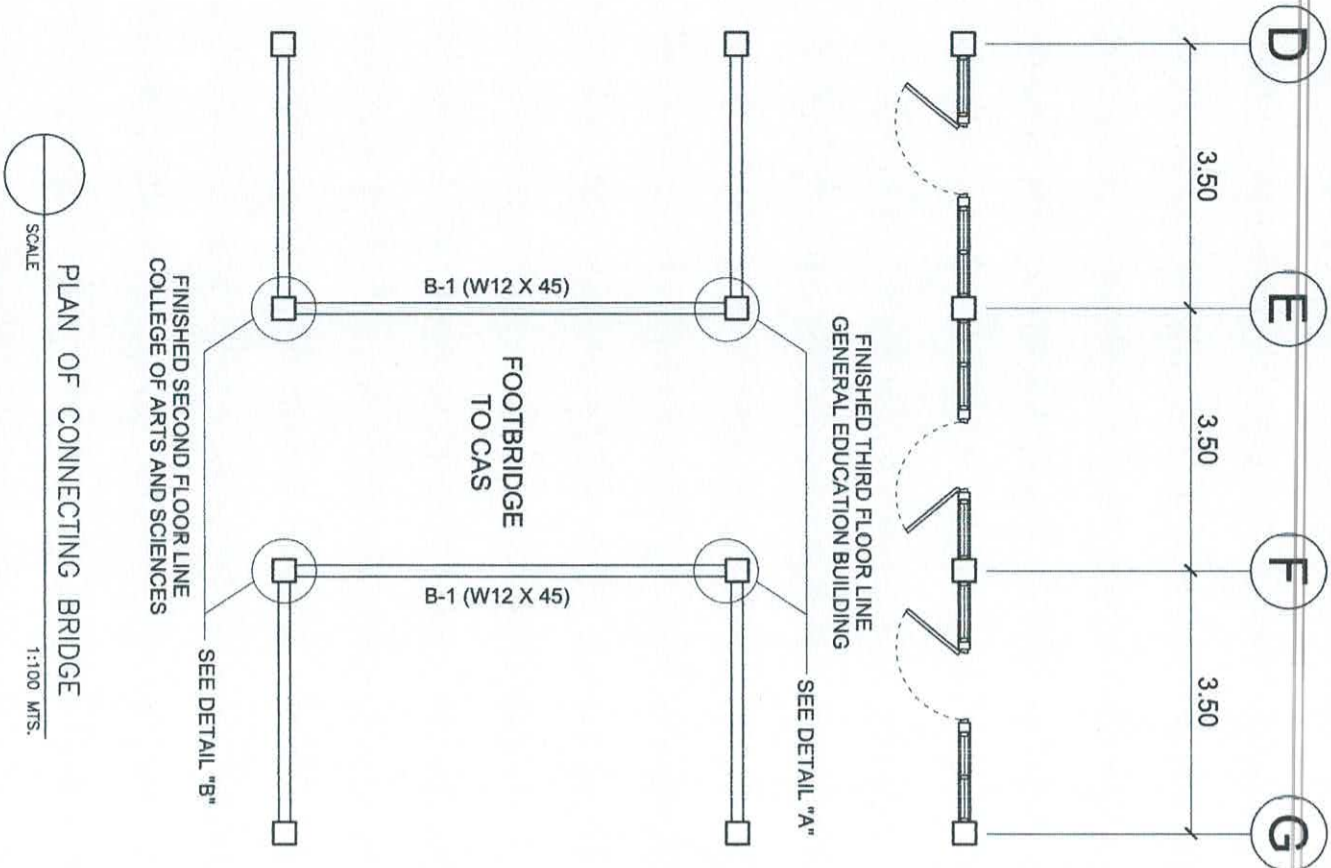



1 PLAN VIEW (CONC. PATHWALK)

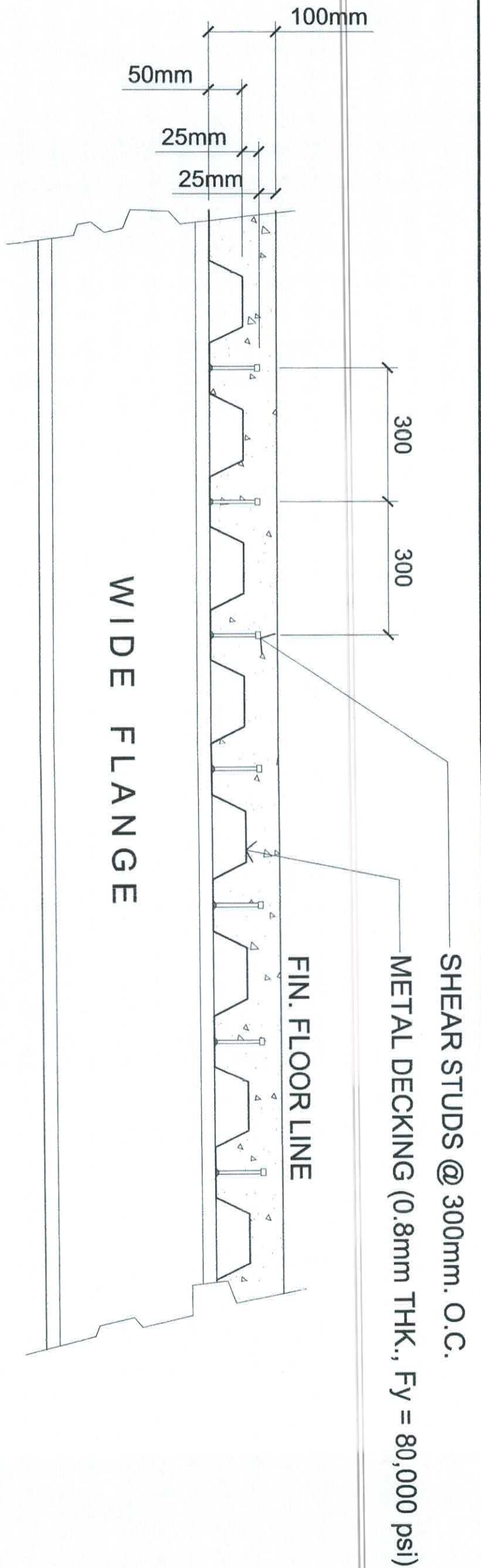
S15 SCALE

1:150 MTS.

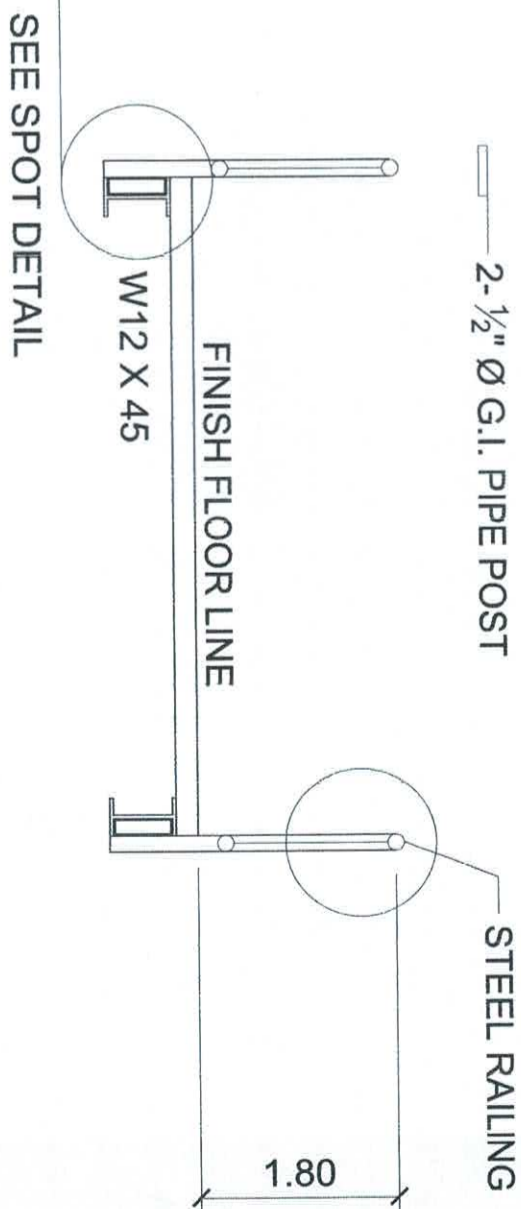
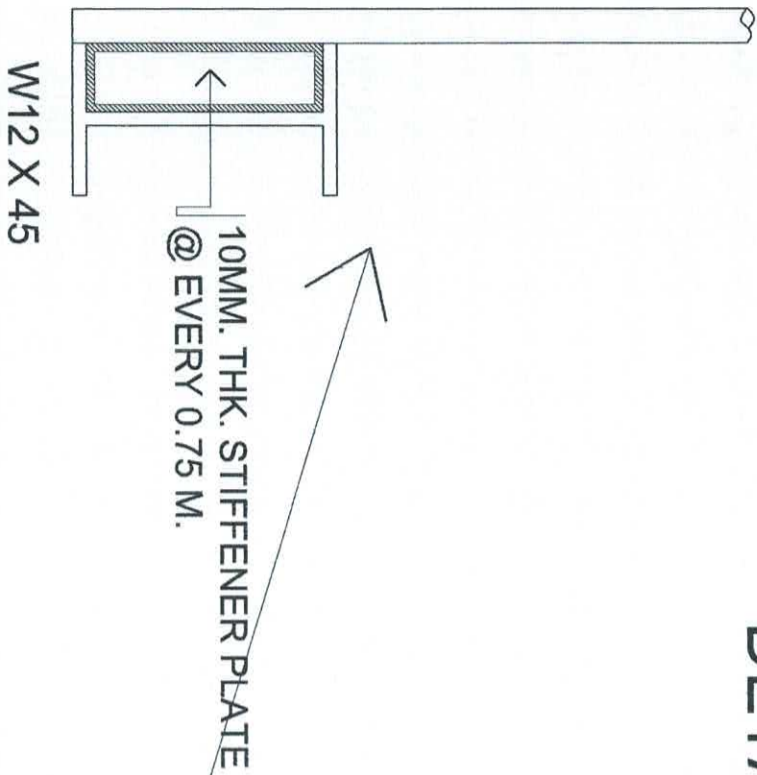
 PREPARED BY: J. D. ESCANO OVP/PPD PDU	END USER: A. G. B. DESINGANO CAS DEAN	REVIEWED BY: M. A. DAGASDAS JR., MENG STRUCTURAL ENGINEER	ENDORSED BY: S. B. BAYOT JR. PDU HEAD	REC. APPROVAL: O. B. DELLOS REYES PLANNING AND DEPT. OFFICE DIRECTOR	APPROVED BY: A. G. MAGCONWAS CVSU VP/PPD	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: S - 15
J. D. ESCANO OVP/PPD PDU	A. G. B. DESINGANO CAS DEAN	M. A. DAGASDAS JR., MENG STRUCTURAL ENGINEER	S. B. BAYOT JR. PDU HEAD	O. B. DELLOS REYES PLANNING AND DEPT. OFFICE DIRECTOR	A. G. MAGCONWAS CVSU VP/PPD	J. X. B. NEPOMUCENO CVSU VP/ASST	H. D. ROBLES CVSU PRES	CAVITE STATE UNIVERSITY



 PREPARED BY: J. P. ESCANO PDU	END USER: A. G. B. DESINGNO DEAN	REVIEWED BY: M. A. DAGASDAS, JR. MERRI STRUCUTURAL ENGINEER	ENDORSED BY: O. B. DELLOS REYES DIRECTOR	REC. APPROVAL: A. G. MAGDAMAS VP/PD	APPROVED BY: H. D. ROBLES PRES	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITTE STATE UNIVERSITY	SHT NO: S - 16
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DETAIL OF METAL DECK

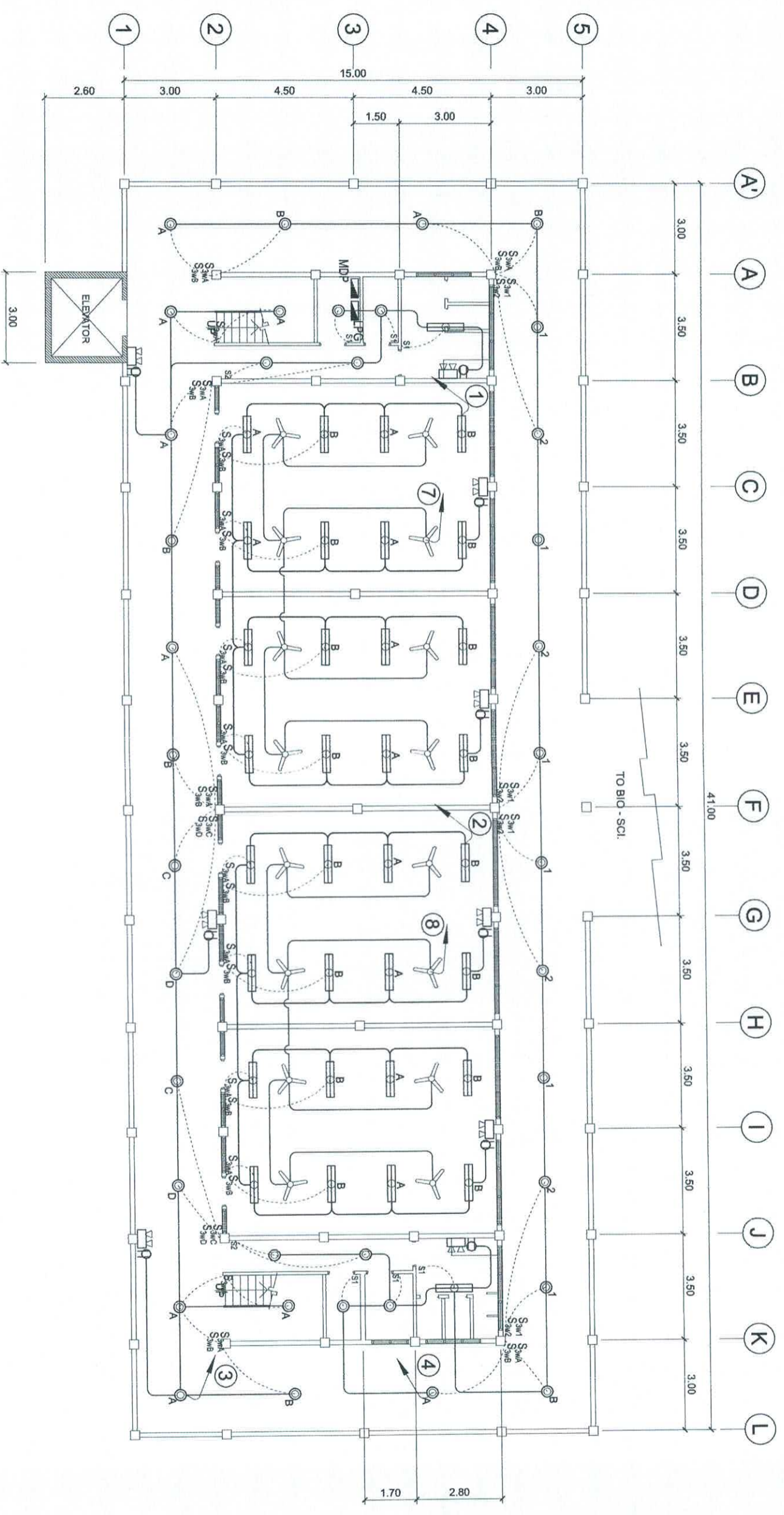


SECTION OF BRIDGE

SCALE 1 : 75 m

SPOT DETAIL

	PREPARED BY: J. D. ESCANO OVP/PPD	END USER: A. G. B. DESINGANO DEAN	REVIEWED BY: M. A. DAGASDAS, JR., MENG. STRUCTURAL ENGINEER	ENDORSED BY: S. B. BAYOT JR. HEAD	REC. APPROVAL: A. G. MAGCAYAS VP/PPD	APPROVED BY: J. K. B. NEPOMUCENO VP/RES	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: S - 17
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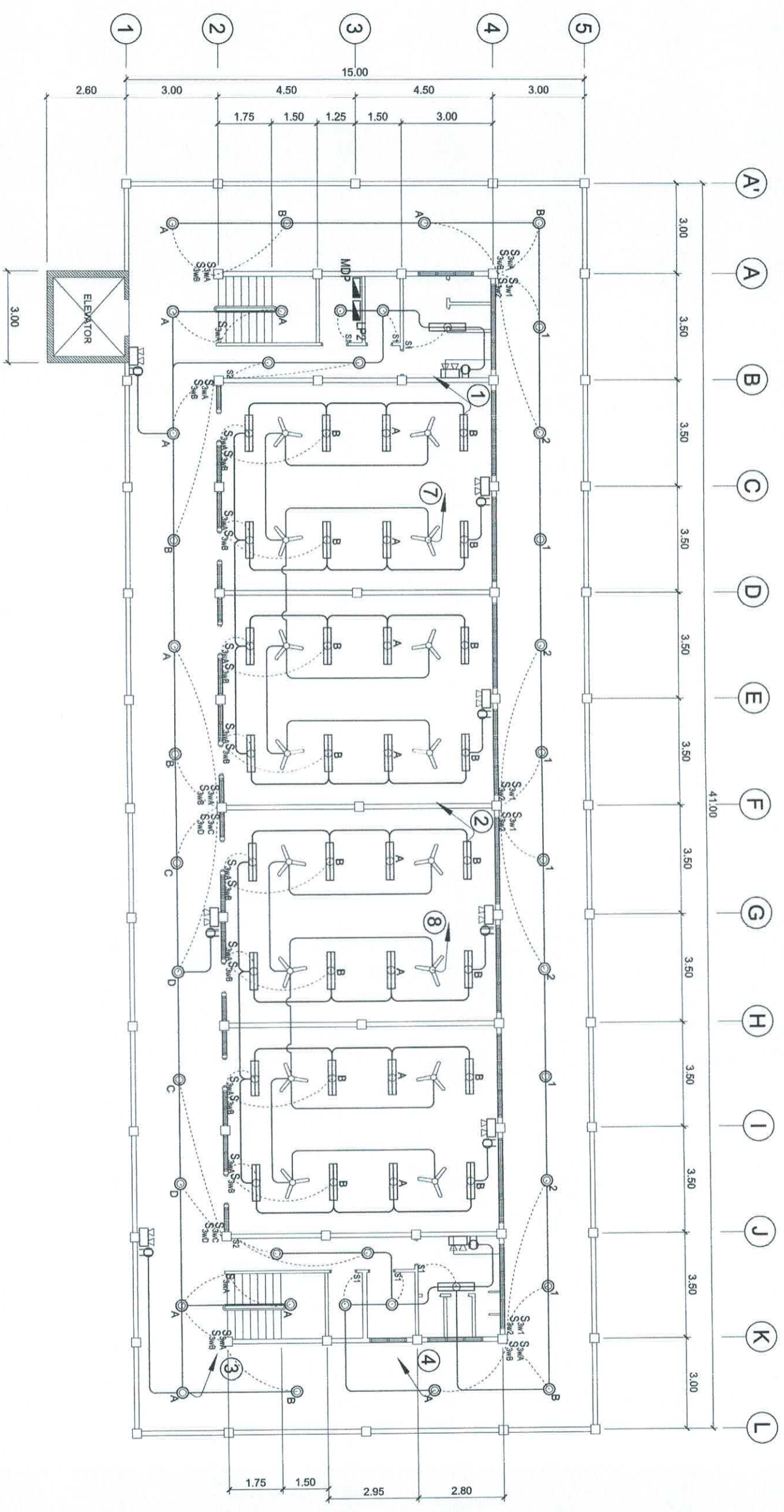


1
E1 SCALE

LOWER GROUND FLOOR LIGHTING LAYOUT

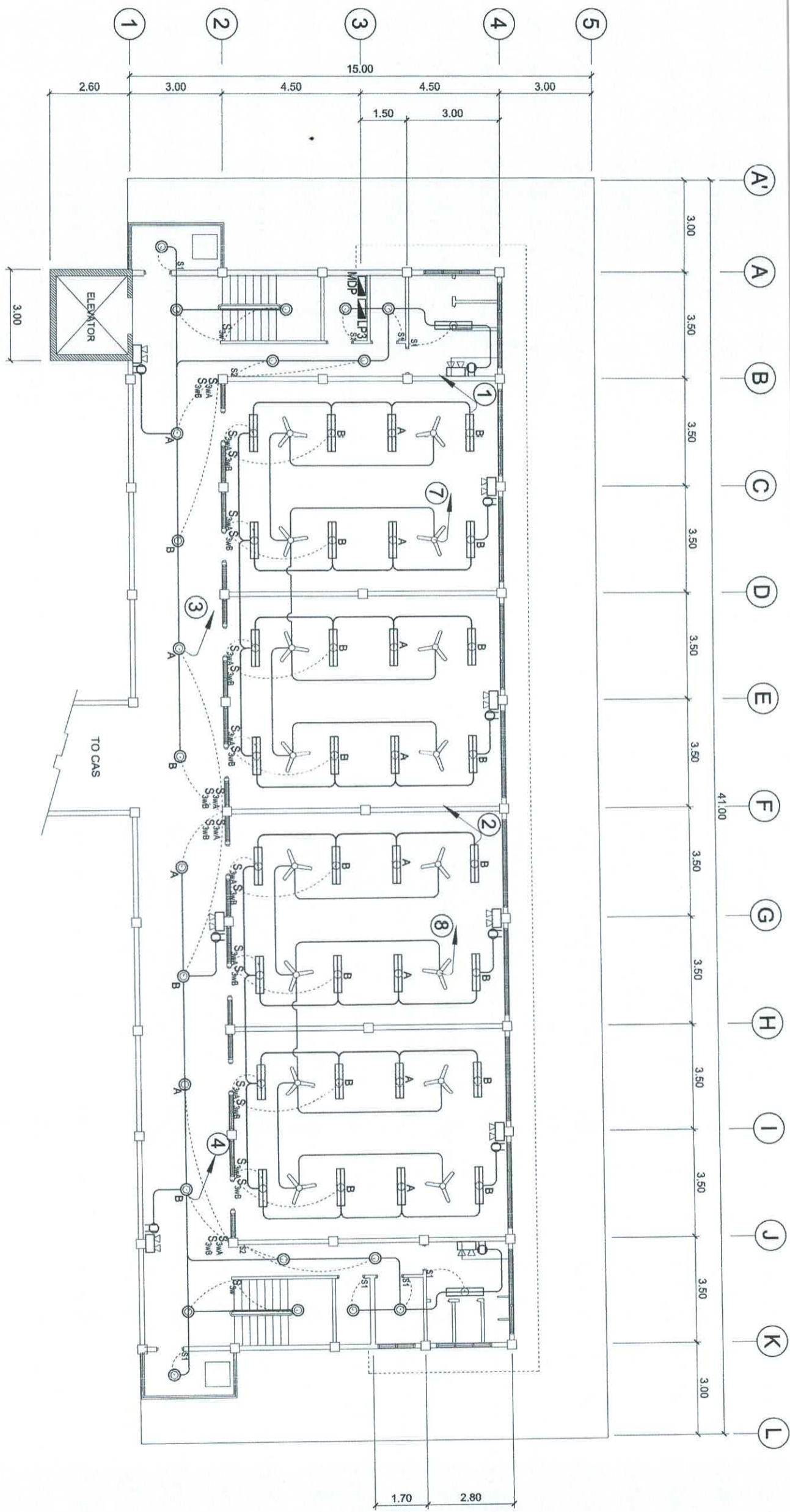
1 : 150 MTS.

 PREPARED BY: E. N. KODEROS JR. OYMBRO PDU	END USER: K. G. B. DESINGANO DEAN CAS	REVIEWED BY:  R. M. PENA PRDF. ELEC. ENGINEER	ENDORSED BY:  O. B. DELOS REYES DIRECTOR PLANNING AND DEPT. OFFICE	REC. APPROVAL:  A. G. MAGCAYAS VFPD CVSU	APPROVED BY:  M. D. ROBLES PRES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: E - 1
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1
E2
 SCALE
UPPER GROUND FLOOR LIGHTING LAYOUT
 1 : 150 MTS.


 PREPARED BY: E. N. RODRIGOS JR. HOU	END USER: A. G. B. DESINGANO DEAN CAS	REVIEWED BY: R. P. MENA PROF. ELEC. ENGINEER	ENDORSED BY: O. B. DELOS REYES DIRECTOR PLANNING AND DEPT. OFFICE	REC. APPROVAL: A. G. MAGCAYAS VPBD	APPROVED BY: H. D. ROBLES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: E - 2
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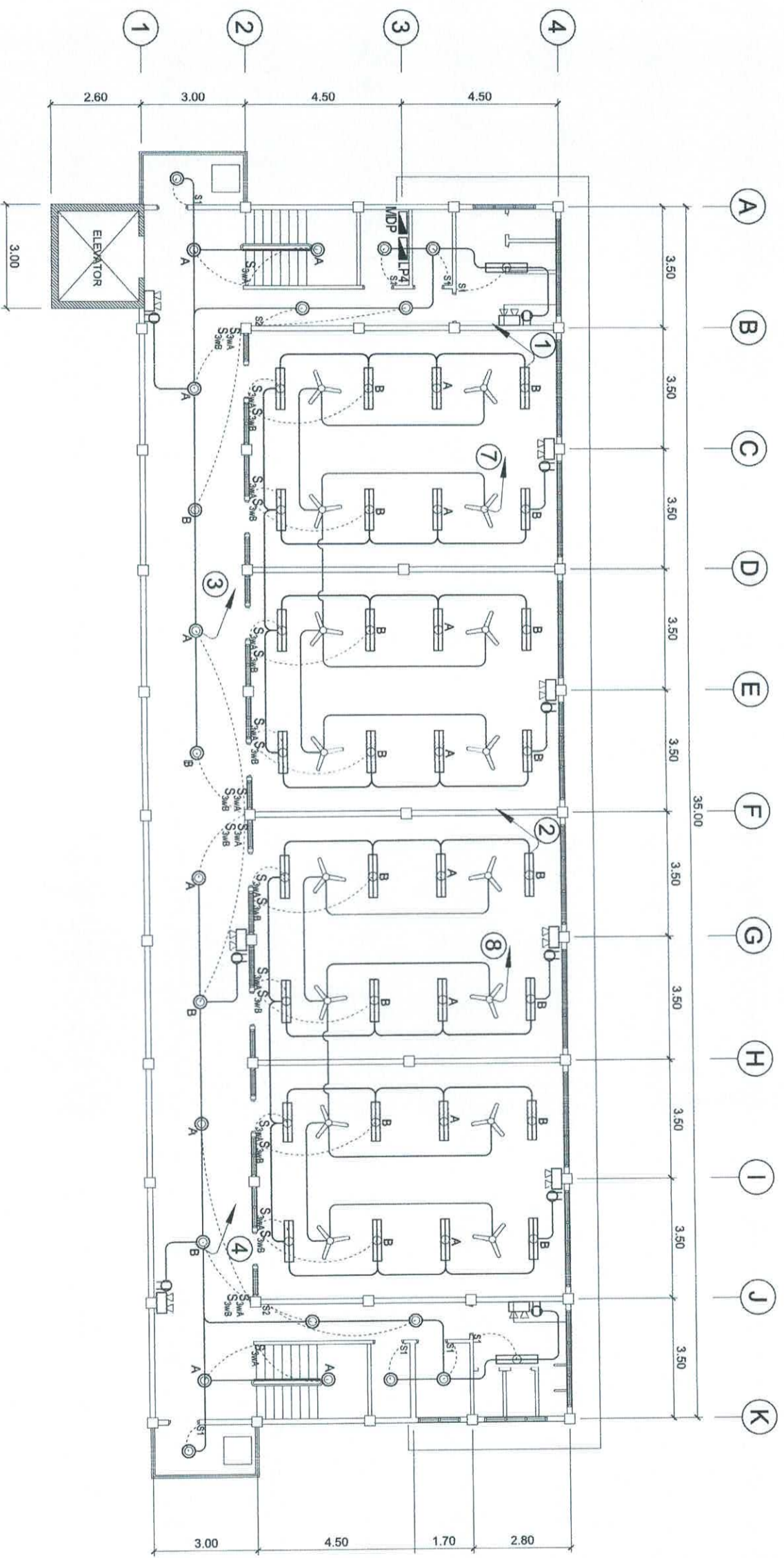


1
E3 SCALE

THIRD FLOOR LIGHTING LAYOUT

1 : 150 MTS.

 PREPARED BY: E. N. RODRIGOS JR. OVP/PE	END USER: A. G. B. DESINGANO CAS DEAN	REVIEWED BY: R. P. MENA PROK. ELEC. ENGINEER	ENDORSED BY: S. B. BAYOT JR. HEAD PDU	REG. APPROVAL: O. B. DELOS REYES DIRECTOR PLANNING AND DEPT. OFFICE	APPROVED BY: A. G. MAGAWAS V/PPD	APPROVED BY: J. K. B. NEPOMUCENO VP/AS	APPROVED BY: A. D. ROBLES C/SU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: E - 3
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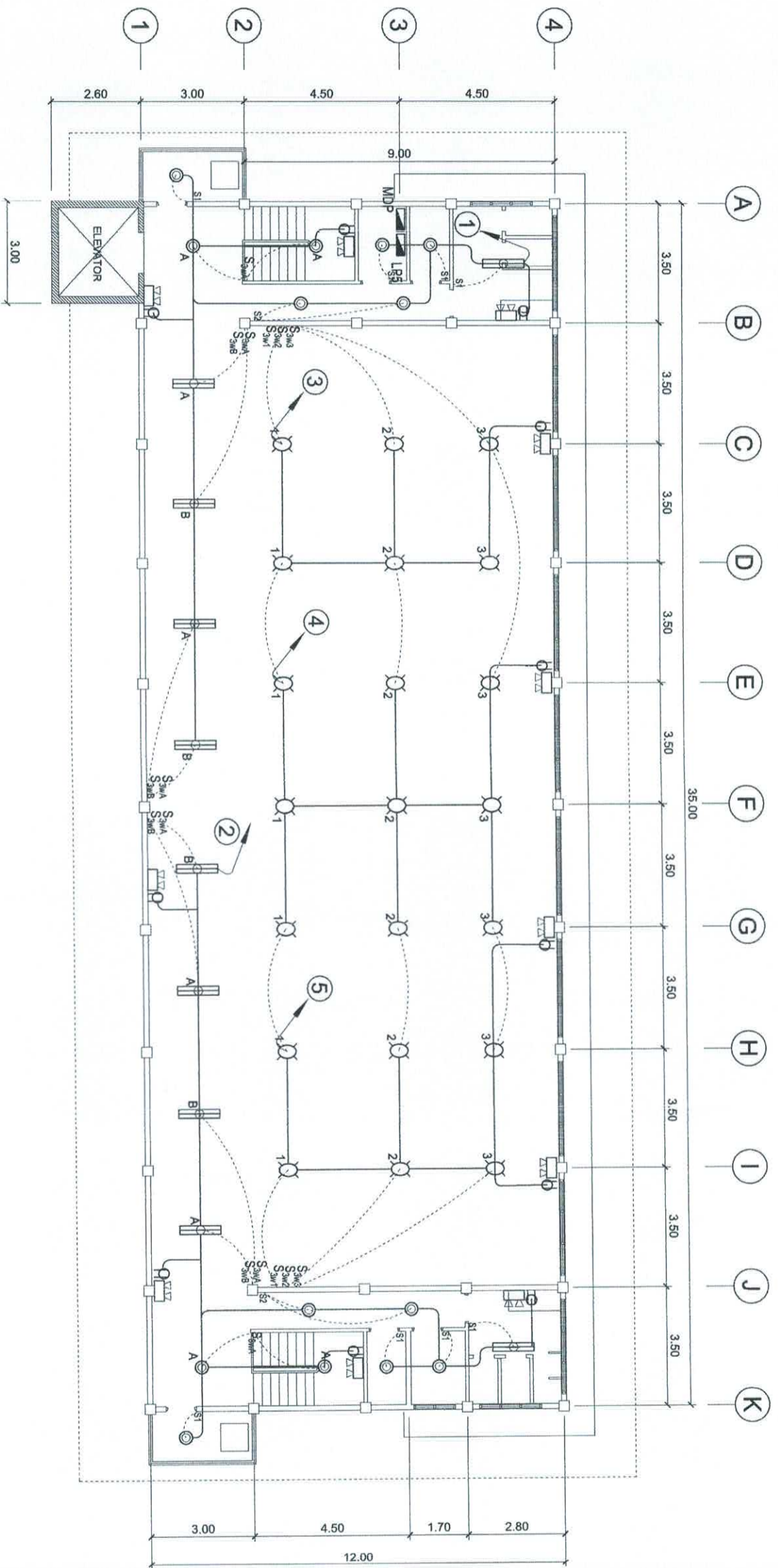


1
E4 SCALE

FOURTH FLOOR LIGHTING LAYOUT

1 : 150 MTS.

 PREPARED BY: E. N. PODEROS JR. PDU/ OVP/PPD DEAN	END USER: G. B. DESINGANO CAS	REVIEWED BY:  R. M. PENNA PROF. ELEC. ENGINEER	ENDORSED BY:  O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	REC. APPROVAL:  A. G. MAGCAWAS VPPD/ CVSU	APPROVED BY:  M. D. ROBLES PRES/ CVSU	PROJECT TITLE/ LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: E - 4
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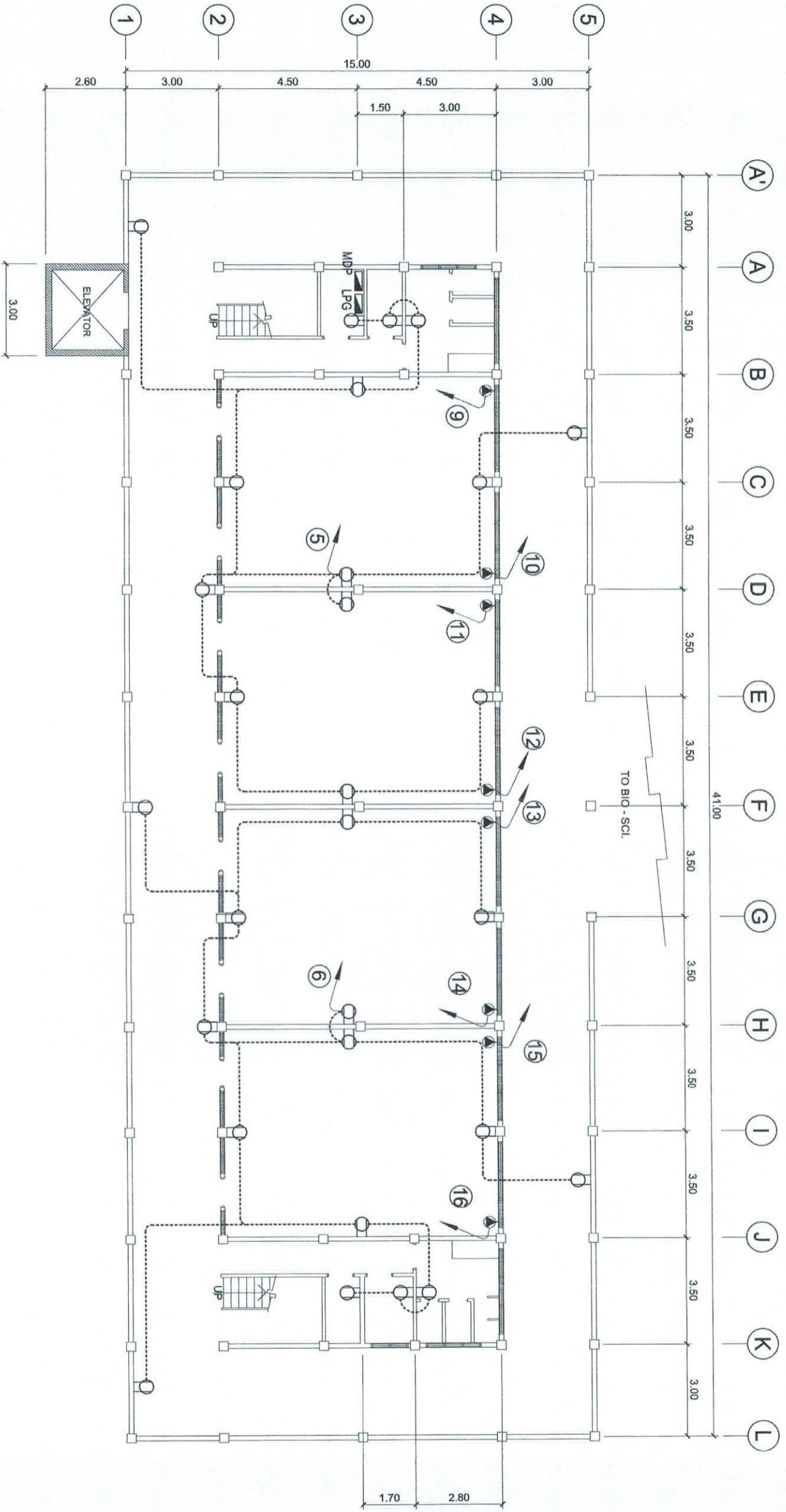


1
E5
SCALE

ROOF DECK LIGHTING LAYOUT

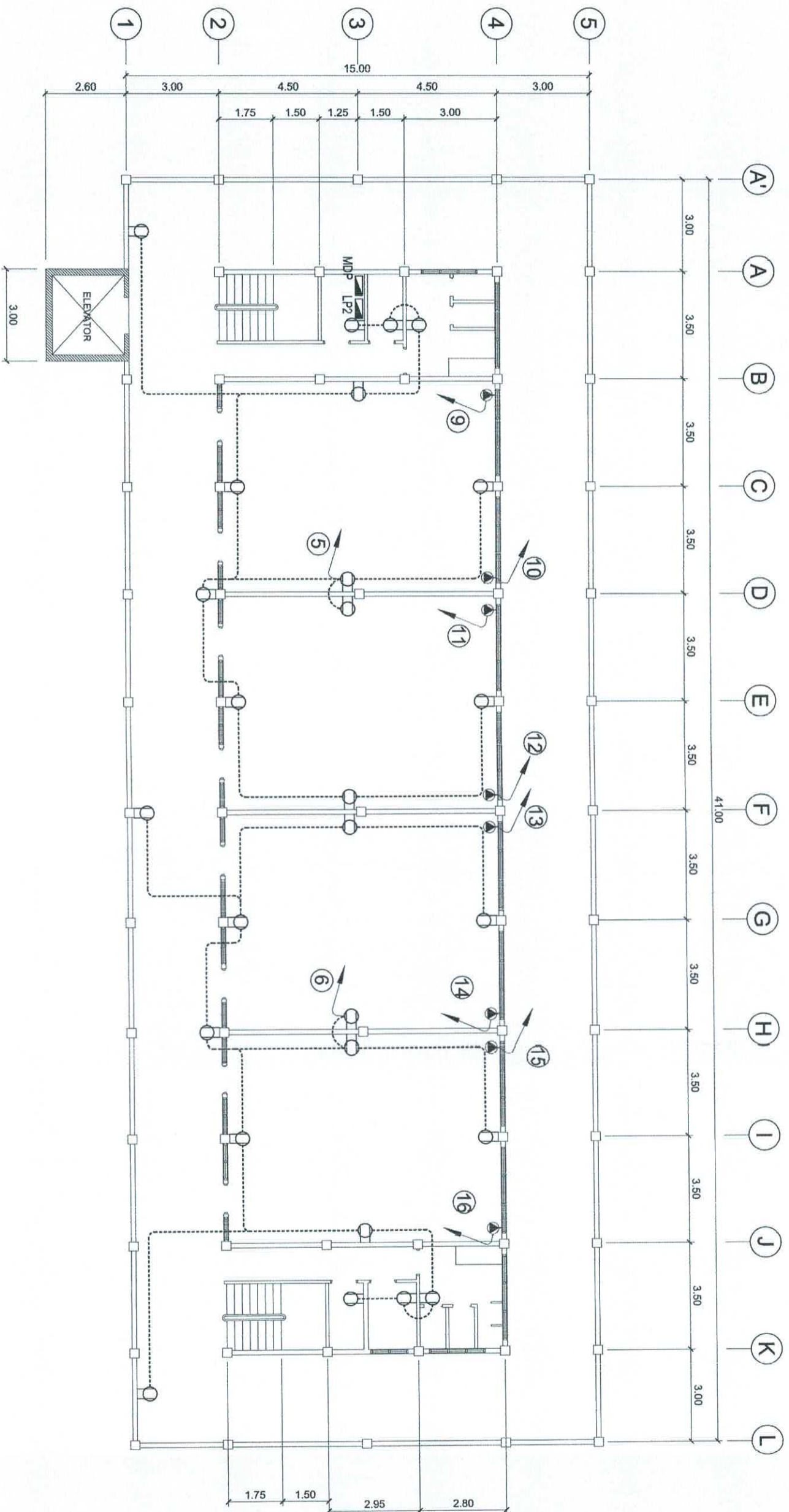
1 : 150 MTS.

 PREPARED BY: E. N. KODEROS JR. PDU	END USER: K. G. B. DESINGANO DEAN	REVIEWED BY: R. P. MENA PROJ. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	ENDORSED BY: G. B. DELOS REYES DIRECTOR PLANNING AND DEPT. OFFICE	REC. APPROVAL: A. G. MACCAWAS C/SU	S. X. B. NEPOMUCENO VP/ASST. C/SU	APPROVED BY: H. D. ROJAS C/SU	PROJECT TITLE/ LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: E - 5
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1
E6 SCALE
LOWER GROUND FLOOR POWER LAYOUT
1 : 150 MTS.

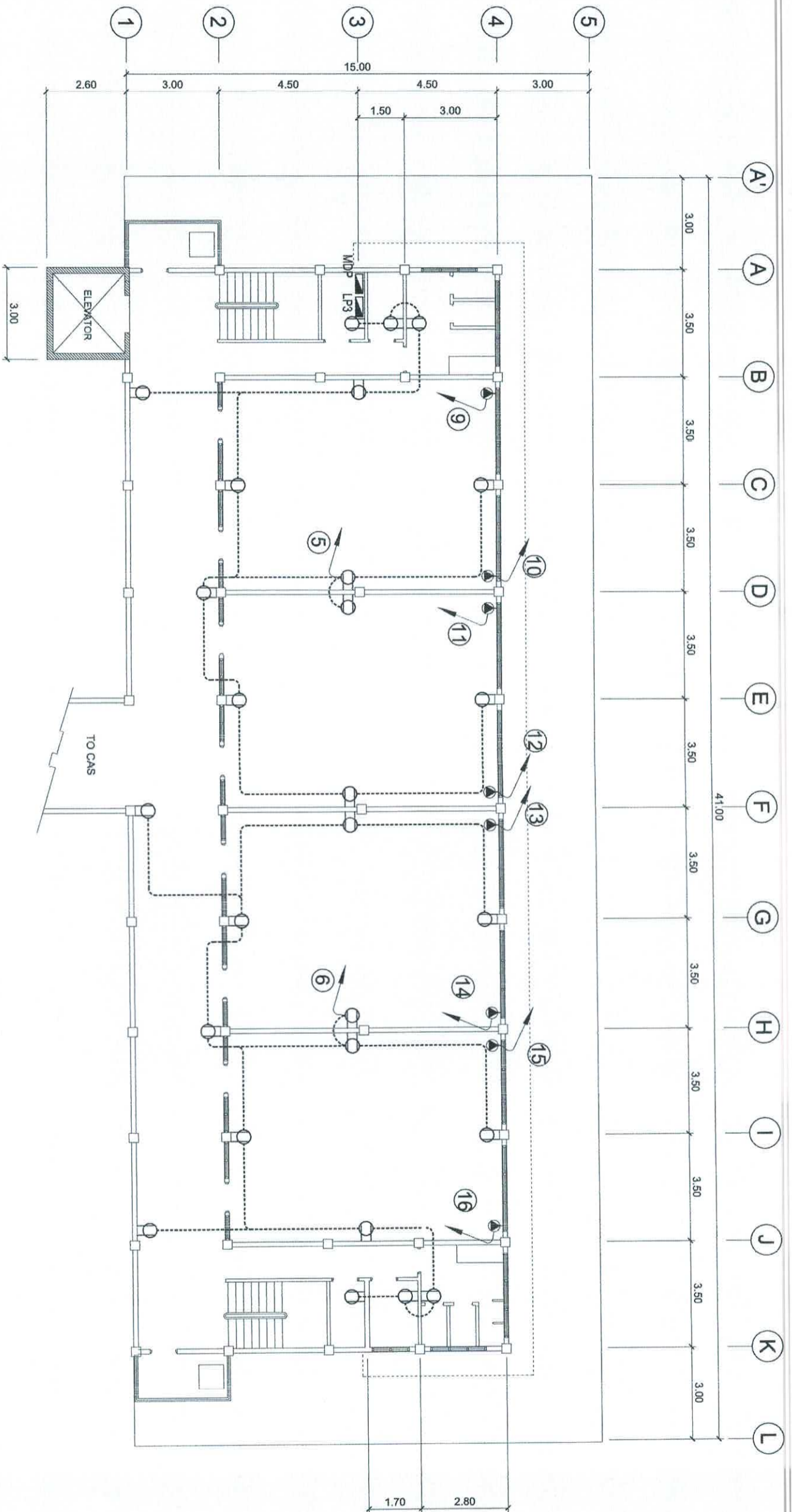
 PREPARED BY: E. N. RODENOS JR. OVP/PPD	END USER: K. G. B. DESIMIANO DEAN	REVIEWED BY: R. M. ALVARADO PROF. ELECT. ENGINEER	ENDORSED BY: O. B. DETOS-REYES DIRECTOR PLANNING AND DEPT. OFFICE	REC. APPROVAL: A. G. MAGDANWAS VPPD	APPROVED BY: A. B. ROBLES VPPD	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: E - 6
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1
E7

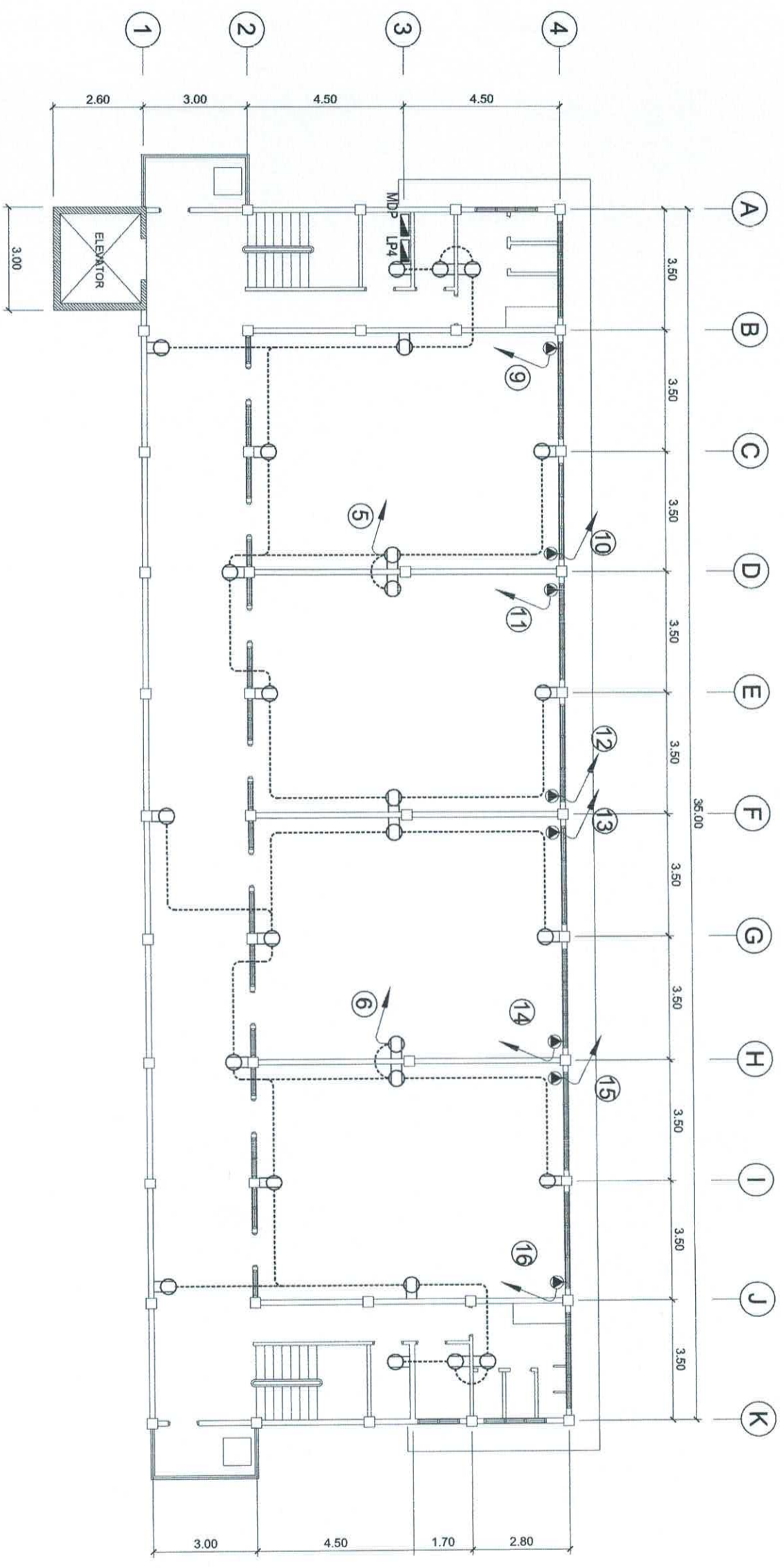
UPPER GROUND FLOOR POWER LAYOUT
SCALE
1 : 150 MTS.

	PREPARED BY: <i>E. N. RODEOS JR.</i> PDU	END USER: <i>A. G. B. DESINGANO</i> DEAN	REVIEWED BY: <i>R. M. ...</i> PROF. ELEC. ENGINEER	ENDORSED BY: <i>O. B. DELOS REYES</i> DIRECTOR PLANNING AND DEVT. OFFICE	REC. APPROVAL: <i>A. G. MAGCAYAS</i> CVSU	APPROVED BY: <i>A. D. ROBLES</i> PRES. CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: E - 7
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1
E8 SCALE
THIRD FLOOR POWER LAYOUT
 1 : 150 MTS.

 PREPARED BY: E. N. RODRIGOS JR. PDU OVP/PPD DEAN	END USER: G. B. DESINGANO CAS	REVIEWED BY:  M. P. BENA PROF. ELEC. ENGINEER	ENDORSED BY:  S. B. BAYOT JR. PDU HEAD	ENDORSED BY:  O. B. DELOS REYES DIRECTOR PLANNING AND DEPT. OFFICE	REC. APPROVAL:  A. G. MAGAWAS VPPD CV/SU	REC. APPROVAL:  J. X. B. NEPOMUCENO VP/ASS CV/SU	APPROVED BY:  H. D. ROBLES P/RES CV/SU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: E - 8
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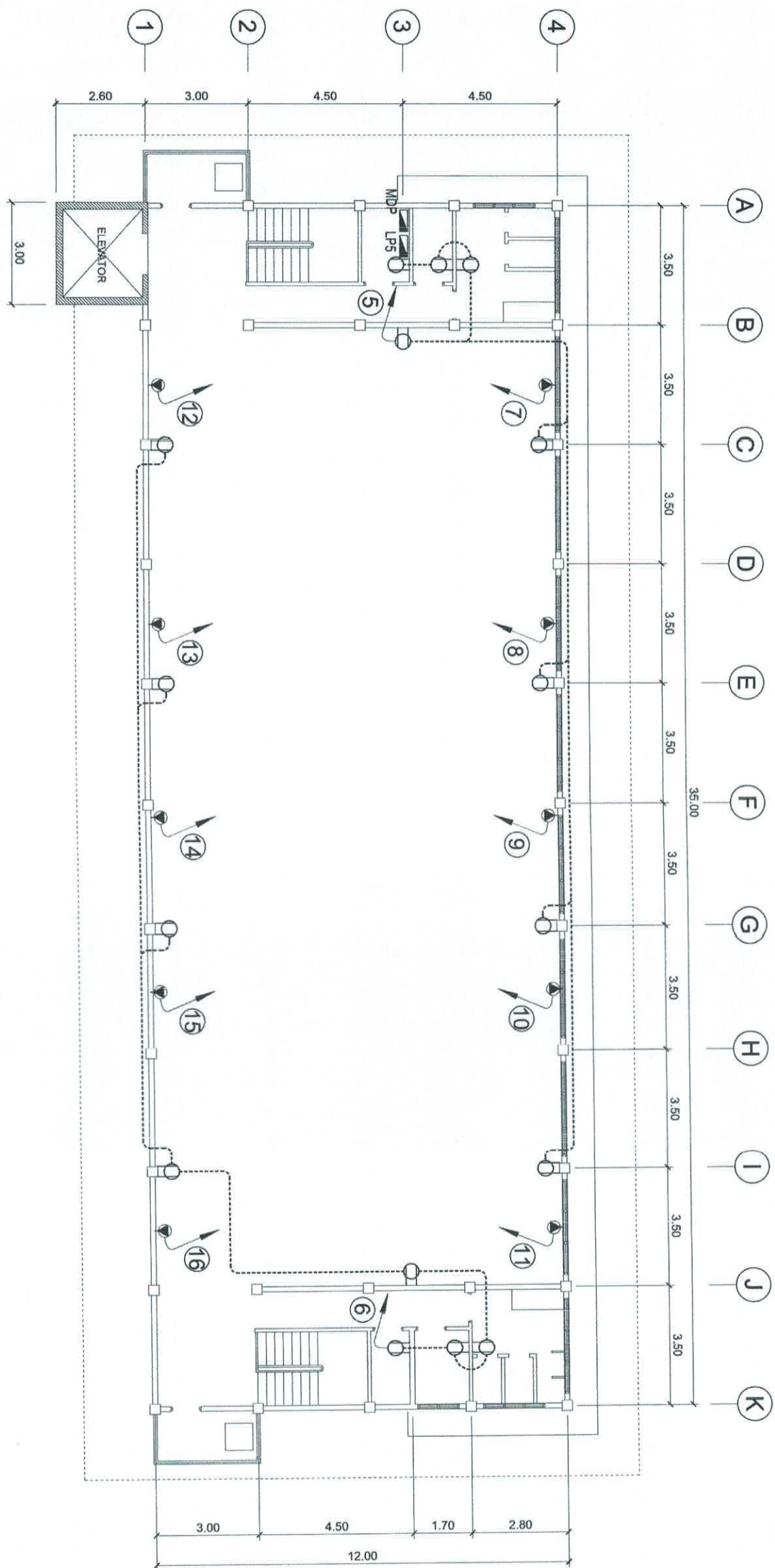


1
E9 SCALE

FOURTH FLOOR POWER LAYOUT

1 : 150 MTS.

 PREPARED BY: E. N. RODENOS JR. PDU OVP/PPD	END USER: G. B. DESINGANO DEAN CAS	REVIEWED BY:  PROF. ELEC. ENGINEER	ENDORSED BY:  S. B. BAYOT JR. HEAD PDU	ENDORSED BY:  Q. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	REC. APPROVAL:  A. G. MAGDAWAS VPPD C/SU	APPROVED BY:  J. X. B. NEPOMOCENO PRES. C/SU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: E - 9
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1
E10 SCALE

ROOF DECK POWER LAYOUT

1 : 150 MTS.

	PREPARED BY: <i>E. N. RODENOS JR.</i> PDU	END USER: <i>A. G. B. DESINGANO</i> DEAN CAS	REVIEWED BY: <i>R. ALBERN</i> PROF. ELEC. ENGINEER	ENDORSED BY: <i>S. B. BAYOT JR.</i> HEAD PDU	ENDORSED BY: <i>O. B. DEKOSREYES</i> DIRECTOR PLANNING AND DEPT. OFFICE	REC. APPROVAL: <i>A. G. MAGCAYAS</i> CVSU	APPROVED BY: <i>J. X. B. NEPOMUCENO</i> VP/ASST CVSU	APPROVED BY: <i>H. D. ROBLES</i> CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: E - 10
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SCHEDULE OF LOADS

PANEL: LPP1
 PHASE: 3
 VOLTS: 230

CABLE: 3 - 30.0 SQ. MM THHN + G 8.0 SQ MM THHN
 CONDUIT: RSC, 32 MM DIA
 LOCATION SECOND FLOOR

MAIN: 125 AT, 225AF, 3P, 230V, 22 KVA, MCCB
 ENCLOSURE: NEMA 1
 MOUNTING: SURFACE

CKT NO.	NO. OF OUTLETS	CIRCUIT DESCRIPTION	LOAD IN				CIRCUIT PROTECTION RATING	Size of Conductor		Size of Conduit in MM ϕ	Color Code
			WATTS	VOLT	AMPS	CA		THHN	THHN(G)		
1	18	Lighting Outlet (2EL + 16FL)	1800	230	7.83		15AT, 2P, 10 KVA/C	2 - 2.0	15	1R, 1BK	
2	18	Lighting Outlet (2EL + 16FL)	1800	230	7.83		15AT, 2P, 10 KVA/C	2 - 2.0	15	1R, 1BK	
3	22	Lighting Outlet (2EL + 18PL + 1FL)	2200	230	9.57		15AT, 2P, 10 KVA/C	2 - 2.0	15	1B, 1Y	
4	22	Lighting Outlet (2EL + 20PL + 1FL)	2200	230	9.57		15AT, 2P, 10 KVA/C	2 - 2.0	15	1B, 1Y	
5	14	Convenience Outlet	2520	230	10.98		20AT, 2P, 10 KVA/C	2 - 3.5 + G 2.0	15	1Y, 1R, 1G	
6	15	Convenience Outlet	2700	230	11.74		20AT, 2P, 10 KVA/C	2 - 3.5 + G 2.0	15	1Y, 1R, 1G	
7	8	Ceiling Fans	2800	230	12.17		20AT, 2P, 10 KVA/C	2 - 3.5 + G 2.0	15	1R, 1BK, 1G	
8	8	Ceiling Fans	2800	230	12.17		20AT, 2P, 10 KVA/C	2 - 3.5 + G 2.0	15	1R, 1BK, 1G	
9	1	ACU Outlet, 2.5HP	1885	230	8.19		30AT, 2P, 10 KVA/C	2 - 5.5 + G 2.0	15	1B, 1Y, 1G	
10	1	ACU Outlet, 2.5HP	1885	230	8.19		30AT, 2P, 10 KVA/C	2 - 5.5 + G 2.0	15	1Y, 1R, 1G	
11	1	ACU Outlet, 2.5HP	1885	230	8.19		30AT, 2P, 10 KVA/C	2 - 5.5 + G 2.0	15	1Y, 1R, 1G	
12	1	ACU Outlet, 2.5HP	1885	230	8.19		30AT, 2P, 10 KVA/C	2 - 5.5 + G 2.0	15	1Y, 1R, 1G	
13	1	ACU Outlet, 2.5HP	1885	230	8.19		30AT, 2P, 10 KVA/C	2 - 5.5 + G 2.0	15	1R, 1BK, 1G	
14	1	ACU Outlet, 2.5HP	1885	230	8.19		30AT, 2P, 10 KVA/C	2 - 5.5 + G 2.0	15	1R, 1BK, 1G	
15	1	ACU Outlet, 2.5HP	1885	230	8.19		30AT, 2P, 10 KVA/C	2 - 5.5 + G 2.0	15	1B, 1Y, 1G	
16	1	ACU Outlet, 2.5HP	1885	230	8.19		30AT, 2P, 10 KVA/C	2 - 5.5 + G 2.0	15	1B, 1Y, 1G	
17		SPARE									
18		SPARE									
TOTAL			33740	230	68.00	75.13	50.70	125AT, 3P, 22 KVA/C	3 - 30.0 + G 8.0	32	1R, 1BK, 1Y, G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:
 G - Means Ground Wire
 1R - Color RED
 1BK - Color BLACK
 1G - Color GREEN

$I_{TL} = \frac{[1.732 \times 72.52 + 25\% \times \text{Im}] \text{DF}}{0.85} = 91.30$ Amperes
 use: 3 - 30.0 SQMM THHN + 1 - 8.0 SQMM THHN IN 32 MM DIA, RSC

$I_{CB} = \frac{[1.732 \times 72.52 + 250\% \times \text{Im}] \text{DF}}{0.85} = 122.80$ Amperes
 use: 125AT, 225AF, 3P, 230V, 22KVA/C, CB

This Electrical Design is good only for the above connected loads.
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 Except redesign of electrical load system will be done.

PANEL: LPP2
 PHASE: 3
 VOLTS: 230

CABLE: 3 - 30.0 SQ. MM THHN + G 8.0 SQ MM THHN
 CONDUIT: RSC, 32 MM DIA
 LOCATION SECOND FLOOR

MAIN: 125 AT, 225AF, 3P, 230V, 22 KVA, MCCB
 ENCLOSURE: NEMA 1
 MOUNTING: SURFACE

CKT NO.	NO. OF OUTLETS	CIRCUIT DESCRIPTION	LOAD IN				CIRCUIT PROTECTION RATING	Size of Conductor		Size of Conduit in MM ϕ	Color Code
			WATTS	VOLT	AMPS	CA		THHN	THHN(G)		
1	18	Lighting Outlet (2EL + 16FL)	1800	230	7.83		15AT, 2P, 10 KVA/C	2 - 2.0	15	1R, 1BK	
2	18	Lighting Outlet (2EL + 16FL)	1800	230	7.83		15AT, 2P, 10 KVA/C	2 - 2.0	15	1R, 1BK	
3	22	Lighting Outlet (2EL + 18PL + 1FL)	2200	230	9.57		15AT, 2P, 10 KVA/C	2 - 2.0	15	1B, 1Y	
4	22	Lighting Outlet (2EL + 20PL + 1FL)	2200	230	9.57		15AT, 2P, 10 KVA/C	2 - 2.0	15	1B, 1Y	
5	13	Convenience Outlet	2520	230	10.98		20AT, 2P, 10 KVA/C	2 - 3.5 + G 2.0	15	1Y, 1R, 1G	
6	14	Convenience Outlet	2700	230	11.74		20AT, 2P, 10 KVA/C	2 - 3.5 + G 2.0	15	1Y, 1R, 1G	
7	8	Ceiling Fans	2800	230	12.17		20AT, 2P, 10 KVA/C	2 - 3.5 + G 2.0	15	1R, 1BK, 1G	
8	8	Ceiling Fans	2800	230	12.17		20AT, 2P, 10 KVA/C	2 - 3.5 + G 2.0	15	1R, 1BK, 1G	
9	1	ACU Outlet, 2.5HP	1885	230	8.19		30AT, 2P, 10 KVA/C	2 - 5.5 + G 2.0	15	1B, 1Y, 1G	
10	1	ACU Outlet, 2.5HP	1885	230	8.19		30AT, 2P, 10 KVA/C	2 - 5.5 + G 2.0	15	1Y, 1R, 1G	
11	1	ACU Outlet, 2.5HP	1885	230	8.19		30AT, 2P, 10 KVA/C	2 - 5.5 + G 2.0	15	1Y, 1R, 1G	
12	1	ACU Outlet, 2.5HP	1885	230	8.19		30AT, 2P, 10 KVA/C	2 - 5.5 + G 2.0	15	1Y, 1R, 1G	
13	1	ACU Outlet, 2.5HP	1885	230	8.19		30AT, 2P, 10 KVA/C	2 - 5.5 + G 2.0	15	1R, 1BK, 1G	
14	1	ACU Outlet, 2.5HP	1885	230	8.19		30AT, 2P, 10 KVA/C	2 - 5.5 + G 2.0	15	1R, 1BK, 1G	
15	1	ACU Outlet, 2.5HP	1885	230	8.19		30AT, 2P, 10 KVA/C	2 - 5.5 + G 2.0	15	1B, 1Y, 1G	
16	1	ACU Outlet, 2.5HP	1885	230	8.19		30AT, 2P, 10 KVA/C	2 - 5.5 + G 2.0	15	1B, 1Y, 1G	
17		SPARE									
18		SPARE									
TOTAL			33380	230	68.00	75.13	49.13	125AT, 3P, 22 KVA/C	3 - 30.0 + G 8.0	32	1R, 1BK, 1Y, G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:
 G - Means Ground Wire
 1R - Color RED
 1BK - Color BLACK
 1G - Color GREEN

$I_{TL} = \frac{[1.732 \times 75.13 + 25\% \times \text{Im}] \text{DF}}{0.85} = 88.59$ Amperes
 use: 3 - 30.0 SQMM THHN + 1 - 8.0 SQMM THHN IN 32 MM DIA, RSC

$I_{CB} = \frac{[1.732 \times 75.13 + 250\% \times \text{Im}] \text{DF}}{0.85} = 120.09$ Amperes
 use: 125AT, 225AF, 3P, 230V, 22KVA/C, CB

This Electrical Design is good only for the above connected loads.
 Any additional electrical load connection in the future is prohibited.
 Except redesign of electrical load system will be done.

PREPARED BY: E. N. RODEROS JR. PDU OVP/PPD DEAN CAS	END USER: G. B. DESIGNANO CAS	REVIEWED BY: R. M. MENA PROF. ELEC. ENGINEER	ENDORSED BY: O. B. DEJOS REYES PLANNING AND DEPT. OFFICE
REC. APPROVAL: A. G. MAGCAWAS CVSU	APPROVED BY: H. D. ROBLES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS CAVITE STATE UNIVERSITY	
IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: E - 11		



SCHEDULE OF LOADS

PANEL: LPP3 (TYPICAL LPP4) CABLE: 3 - 30.0 SQ. MM THHN + G 8.0 SQ MM THHN MAIN: 125 AT, 225AF, 3P, 230V, 22 KVA, MCCB
 PHASE: 3 CONDUIT: RSC, 32 MM DIA ENCLOSURE: NEMA 1
 VOLTS: 230 LOCATION: THIRD FLOOR MOUNTING: SURFACE

CKT NO.	NO. OF OUTLETS	CIRCUIT DESCRIPTION	LOAD IN				CIRCUIT BREAKER RATING	Size of Conductor		Size of Conduit in mm ²	Color Code
			WATTS	VOLT	AB	BC		CA	SQ MM THHN		
1	18	Lighting Outlet (ZEL + 16FL)	1800	230	7.83	2.0	2.0	15	1R, 1BK		
2	18	Lighting Outlet (ZEL + 16FL)	1800	230	7.83	2.0	2.0	15	1R, 1BK		
3	13	Lighting Outlet (ZEL + 11PL + 1FL)	1300	230	5.65	2.0	2.0	15	1B, 1Y		
4	15	Lighting Outlet (ZEL + 11PL + 1FL)	1500	230	6.52	2.0	2.0	15	1B, 1Y		
5	13	Lighting Outlet (ZEL + 11PL + 1FL)	2340	230	10.17	2.0	2.0	15	1Y, 1R, 1G		
6	14	Convenience Outlet	2550	230	10.98	2.0	2.0	15	1Y, 1R, 1G		
7	8	Ceiling Fans	2800	230	12.17	2.0	2.0	15	1R, 1BK, 1G		
8	8	Ceiling Fans	2800	230	12.17	2.0	2.0	15	1R, 1BK, 1G		
9	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1B, 1Y, 1G		
10	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1B, 1Y, 1G		
11	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1Y, 1R, 1G		
12	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1Y, 1R, 1G		
13	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1R, 1BK, 1G		
14	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1R, 1BK, 1G		
15	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1B, 1Y, 1G		
16	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1B, 1Y, 1G		
17		SPARE									
18		SPARE									
TOTAL			31790	230	68.00	68.17	49.13	125AT, 3P, 22 KVA	3 - 30.0 + G 8.0	32	1R, 1BK, 1Y, G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE: $I_T = [1.732 \times 88.17 + 25\% \times \text{Im}] \text{ DF} = 88.59$ Amperes
 Use: 3 - 30.0 SQMM THHN + 1 - 8.0 SQMM THHN N 32 MM DIA, RSC
 $I_{CB} = [1.732 \times 88.17 + 250\% \times \text{Im}] \text{ DF} = 120.09$ Amperes
 Use: 125AT, 225AF, 3P, 230V, 22KVA, CB

This Electrical Design is good only for the above connected loads. Any additional electrical load connection in the future is prohibited. Except redesign of electrical load system will be done.

PANEL: LPP8 CABLE: 3 - 38.0 SQ. MM THHN + G 8.0 SQ MM THHN MAIN: 150 AT, 225AF, 3P, 230V, 22 KVA, MCCB
 PHASE: 3 CONDUIT: RSC, 32 MM DIA ENCLOSURE: NEMA 1
 VOLTS: 230 LOCATION: ROOF TOP MOUNTING: SURFACE

CKT NO.	NO. OF OUTLETS	CIRCUIT DESCRIPTION	LOAD IN				CIRCUIT BREAKER RATING	Size of Conductor		Size of Conduit in mm ²	Color Code
			WATTS	VOLT	AB	BC		CA	SQ MM THHN		
1	16	Lighting Outlet (ZEL + 6FL + 7PL)	1600	230	6.96	2.0	2.0	15	1R, 1BK		
2	17	Lighting Outlet (ZEL + 6FL + 7PL)	1700	230	7.39	2.0	2.0	15	1R, 1BK		
3	8	Dome Light Outlet (ZEL + 60L)	1600	230	6.96	2.0	2.0	15	1B, 1Y		
4	11	Dome Light Outlet (ZEL + 60L)	2250	230	9.78	2.0	2.0	15	1B, 1Y		
5	8	Dome Light Outlet (ZEL + 60L)	1700	230	7.39	2.0	2.0	15	1Y, 1R, 1G		
6	13	Convenience Outlet	2340	230	10.17	2.0	2.0	15	1Y, 1R, 1G		
7	15	Convenience Outlet	2700	230	11.74	2.0	2.0	15	1R, 1BK, 1G		
8	15	Convenience Outlet	2700	230	11.74	2.0	2.0	15	1R, 1BK, 1G		
9	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1B, 1Y, 1G		
10	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1B, 1Y, 1G		
11	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1Y, 1R, 1G		
12	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1Y, 1R, 1G		
13	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1Y, 1R, 1G		
14	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1R, 1BK, 1G		
15	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1R, 1BK, 1G		
16	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1B, 1Y, 1G		
17	1	ACU Outlet, 2.5HP	1885	230	14.00	2.0	2.0	15	1B, 1Y, 1G		
18		SPARE									
19		SPARE									
TOTAL			28810	230	54.09	58.74	59.57	150AT, 3P, 22 KVA	3 - 38.0 + G 8.0	32	1R, 1BK, 1Y, G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE: $I_T = [1.732 \times 59.83 + 25\% \times \text{Im}] \text{ DF} = 106.67$ Amperes
 Use: 3 - 38.0 SQMM THHN + 1 - 8.0 SQMM THHN N 32 MM DIA, RSC
 $I_{CB} = [1.732 \times 59.83 + 250\% \times \text{Im}] \text{ DF} = 138.17$ Amperes
 Use: 150AT, 225AF, 3P, 230V, 22KVA, CB

This Electrical Design is good only for the above connected loads. Any additional electrical load connection in the future is prohibited. Except redesign of electrical load system will be done.

	PREPARED BY: E. N. RODEROS JR. PDU OVRD. DEAN	END USER: G. B. DESINGANO CAS	REVIEWED BY: P. R. MENA PROF. ELEC. ENGINEER	ENDORSED BY: S. B. BAYOT JR. PDU HEAD	REC. APPROVAL: A. G. MAGCAYAS VPPD	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: E - 12
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SCHEDULE OF LOADS

PANEL/MDP: 3
 PHASE: 3
 VOLTS: 230

CABLE: 3 - 3 - 40.0 SQ. MM THHN + G 30.0 SQ MM THHN
 CONDUIT: RSC, 100 MM DIA.
 LOCATION: GROUND FLOOR

MAIN: 500 AT, 500 AF, 3P, 230V, 65 KVA, MCCB
 ENCLOSURE: NEMA 1
 MOUNTING: SURFACE

Circuit No.	Circuit Description	Watts	VOLT	AMPERES			CIRCUIT PROTECTION RATING	Size of Conductor		Color Code
				AB	BC	CA		SQ. MM THHN	SQ. MM THHN (G)	
1	LPP1 LIGHTING & POWER PANEL 1	33740	230	68.00	75.13	50.70	125AT, 3P, 22 KAC	3 - 30.0	+ G 8.0	1R, 1BK, 1Y, G
2	LPP2 LIGHTING & POWER PANEL 2	33380	230	49.13	75.13	68.00	125AT, 3P, 22 KAC	3 - 30.0	+ G 8.0	1R, 1BK, 1Y, G
3	LPP3 LIGHTING & POWER PANEL 3	31780	230	49.13	68.17	68.00	125AT, 3P, 22 KAC	3 - 30.0	+ G 8.0	1R, 1BK, 1Y, G
4	LPP4 LIGHTING & POWER PANEL 4	31780	230	68.00	49.13	68.17	125AT, 3P, 22 KAC	3 - 30.0	+ G 8.0	1R, 1BK, 1Y, G
5	LPP5 LIGHTING & POWER PANEL 5	28910	230	59.57	58.74	54.09	150AT, 3P, 22 KAC	3 - 38.0	+ G 8.0	1R, 1BK, 1Y, G
6	ELEP ELEVATOR PANEL	19000	230	37.85	37.85	37.85	70AT, 3P, 22 KAC	3 - 14.0	+ G 8.0	1R, 1BK, 1Y, G
7	JPP JOCKEY PUMP PANEL	2000	230	12.00			30AT, 2P, 22 KAC	2 - 3.5	+ G 3.5	1R, 1BK, 1Y, G
8	FPP FIRE PUMP PANEL	20000	230	50.21	50.21	50.21	200AT, 3P, 22 KAC	3 - 14.0	+ G 8.0	1R, 1BK, 1Y, G
9	WPP WATER PUMP PANEL	1500	230	50.21		10.00	30AT, 2P, 22 KAC	2 - 3.5	+ G 3.5	1R, 1BK, 1Y, G
10	SPARE									
TOTAL		159490	230	393.89	414.18	408.82	500AT, 3P, 65 KAC	3 - 3 - 50.0	+ G 30.0	1R, 1BK, 1Y, G

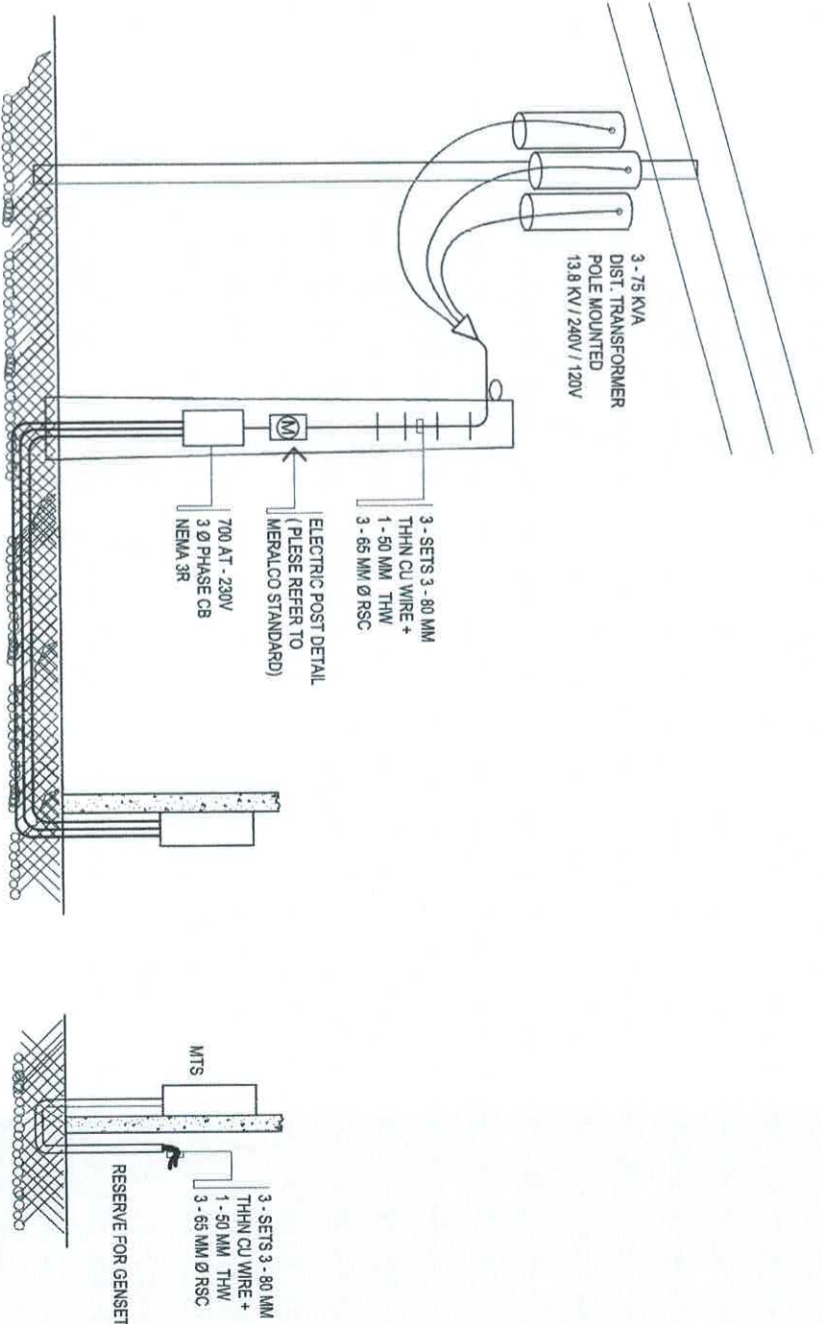
FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:
 G - Means Ground Wire
 1R- Color RED
 1BK- Color BLACK
 1G- Color GREEN

$I_{FR} = \frac{[1.732 \times 325.74 + 25\% \times I_n]}{DF} = 576.27 \text{ Amperes}$
 use: 3 - 300.0 SQMM THHN + 1 - 30.0 SQMM THHN IN 100 MM DIA. RSC

or
 $I_{CS} = \frac{[1.732 \times 325.74 + 25\% \times I_n]}{DF} = 635.23 \text{ Amperes}$
 use: 700AT, 1000AF, 3P, 230V, 65KAC, CB

This Electrical Design is good only for the above connected loads.
 Any additional electrical load connection in the future is prohibited.
 Except redesign of electrical load system will be done.



1
 E13
 SCALE

ONE LINE DIAGRAM

DET. OF MTS & STANDBY GENERATOR
 FEEDER WIRE PROVISION
 N. T. S.

PREPARED BY: E. N. RODENOS JR. OVERSEER PDU	END USER: K. G. B. DESINIANO CAS	REVIEWED BY: R. P. P. P. P. PROF. ELEC. ENGINEER	ENDORSED BY: O. B. DELOS REYES PLANNING AND DEV'T. OFFICE	REC. APPROVAL: A. G. MAGDAMAS V/PPD	APPROVED BY: J. X. B. NEPOMUCENO CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: E - 13
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PINLIGHT W/ 11W 2U CFL

1-20W FLOURESCENT LIGHT

2-20W FLOURESCENT LIGHT

1-40W FLOURESCENT LIGHT

2-40W FLOURESCENT LIGHT

EMERGENCY LIGHT

EXHAUST FAN

ONE GANG SWITCH

TWO GANG SWITCH

THREE WAY SWITCH

TWO GANG CONVENIENCE OUTLET

THREE PIN ACU OUTLET

1.5 HP WINDOW TYPE AIRCON

2.0 HP SPLIT TYPE AC CONDENSER

SPLIT TYPE AC BLOWER

2.0 mm² THHN

3.5 mm² THHN

CIRCUIT HOMERUN

CIRCUIT NUMBER

PANEL BOARD

LEGEND

SINGLE LINE DIAGRAM

GROUND

GENERATOR

MTS

MDP 700AT, 1000AF, 3P

3 SETS OF 3-80 mm² THHN
IN 3-65 mm Ø

3 SETS OF 3-80 mm² THHN
IN 3-65 mm Ø

3 SETS OF 3-80 mm² THHN
IN 3-65 mm Ø

3-38.0 mm² THHN
IN 32 mm Ø RSC

1-8.0 mm² THHN (G)

3-30.0 mm² THHN
IN 32 mm Ø RSC

1-8.0 mm² THHN (G)

3-30.0 mm² THHN
IN 32 mm Ø RSC

1-8.0 mm² THHN (G)

3-30.0 mm² THHN
IN 32 mm Ø RSC

1-8.0 mm² THHN (G)

3-30.0 mm² THHN
IN 32 mm Ø RSC

1-8.0 mm² THHN (G)

3-30.0 mm² THHN
IN 32 mm Ø RSC

1-8.0 mm² THHN (G)

2-2.0 mm² THHN
IN 20 mm Ø RSC

2-5.5 mm² THHN
IN 25 mm Ø RSC

1-3.5 mm² THHN (G)

2-5.0 mm² THHN
IN 25 mm Ø RSC

1-2.0 mm² THHN (G)

2-5.5 mm² THHN
IN 25 mm Ø RSC

1-3.5 mm² THHN (G)

2-5.5 mm² THHN
IN 25 mm Ø RSC

1-3.5 mm² THHN (G)

3-14.0 mm² THHN
IN 32 mm Ø RSC

1-8.0 mm² THHN (G)

3-14.0 mm² THHN
IN 32 mm Ø RSC

2-5.5 mm² THHN
IN 25 mm Ø RSC

1-3.5 mm² THHN (G)

2-5.5 mm² THHN
IN 25 mm Ø RSC

2-5.5 mm² THHN
IN 25 mm Ø RSC

2-5.5 mm² THHN
IN 25 mm Ø RSC

FIFTH FLOOR

FOURTH FLOOR

THIRD FLOOR

SECOND FLOOR

GROUND FLOOR

WATER PUMP 2.50HP

FACP 20AT, 100AF, 2P

LPP1 125AT, 225AF, 3P

LPP2 125AT, 225AF, 3P

LPP3 125AT, 225AF, 3P

LPP4 125AT, 225AF, 3P

LPP5 150AT, 225AF, 3P

FIRE PUMP 20.0 HP

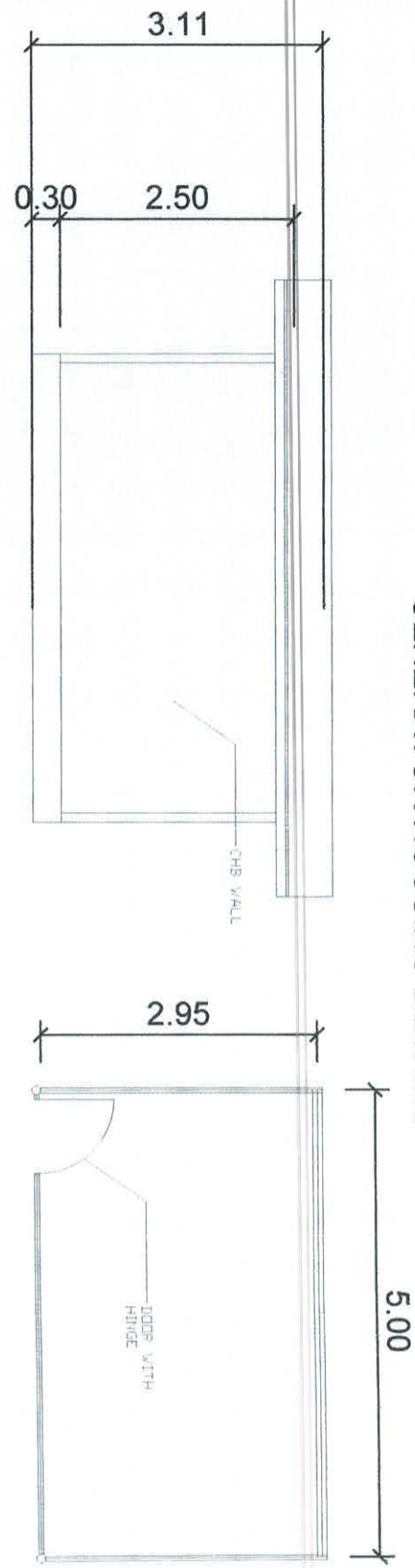
JOCKEY PUMP 2.00HP

GROUND

CEILING

	PREPARED BY: E. N. RODRIGOS JR. PDU	END USER: A. G. B. DESINIANO DEAN	REVIEWED BY: R. M. BENA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEPT. OFFICE	REC. APPROVAL: A. G. MAGGAWAS VP/PS	APPROVED BY: M. D. ROBLES PRES. C/SU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: E - 14
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GENERATOR HOUSING DETAILS

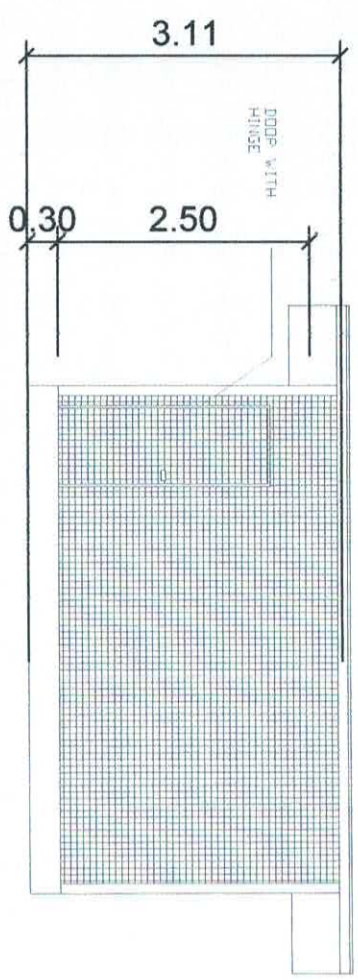


2 REAR ELEVATION
SCALE 1 : 75

1 FLOOR PLAN
SCALE 1 : 75

3 LEFT SIDE ELEVATION
SCALE 1 : 75

4 RIGHT SIDE ELEVATION
SCALE 1 : 75



5 FRONT ELEVATION
SCALE 1 : 75

GENERATOR SET

- STANDBY POWER: 175 KVA/140 KW
- PRIME POWER: 160 KVA/128 KW
- VOLTAGE: 230V/60HZ
- PHASE: 3 PHASE
- AMPERE: 630 AMPERE
- POWER FACTOR: 0.8
- NOISE LEVEL: 72 dba
- ENGINE SPEED: 1800
- TANK CAPACITY: 240L
- DIMENSION: 3190 mm. x 1130 mm. x 1660 mm.



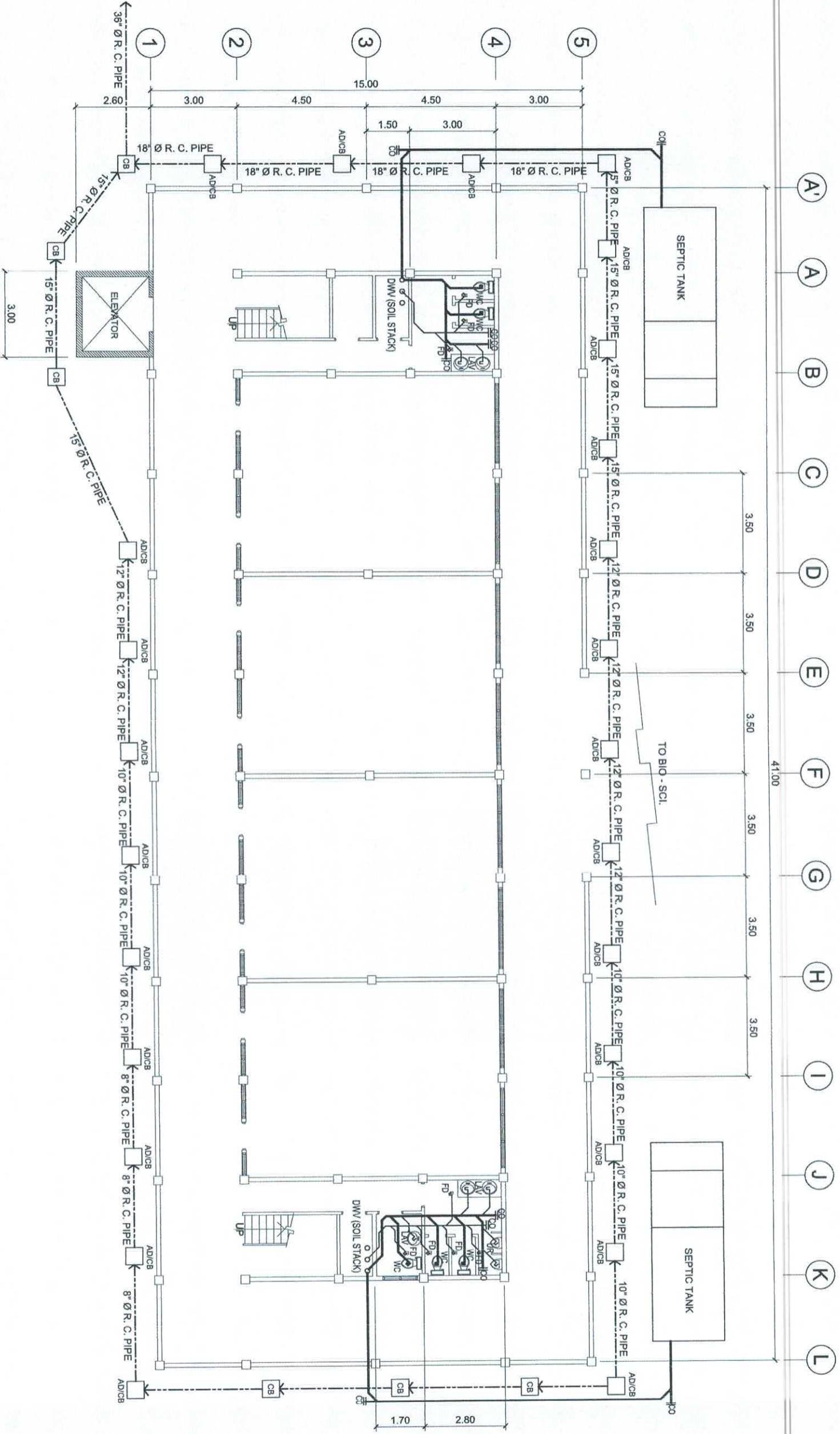
6 GENERATOR SET SPECIFICATION
SCALE N T S

- LED HIGH BAY (UFO SERIES)
- WATTAGE: 100 WATTS
- VOLTAGE: 230V
- LUMINOUS FLUX: 10,000 lm
- IP RATING: IP 65
- BEAM ANGLE: 120 DEGREES
- LIFE HOURS: 50,000



7 LED HIGH BAY (UFO SERIES) SPECIFICATION
SCALE N T S

	PREPARED BY: R. J. R. SANCHEZ PPD / OVPD	END USER: A. G. B. DESINGANO DEAN / CAS	REVIEWED BY: R. P. BARRERA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD / HDU	ENDORSED BY: O. B. DELOS REYES PLANNING AND DEV. OFFICE	REC. APPROVAL: A. G. MAGDANAWAS CYSU / VPFD	J. X. B. NEPOMUCENO CYSU / VPASS	APPROVED BY: H. D. ROBLES CYSU / PRES	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: E - 15
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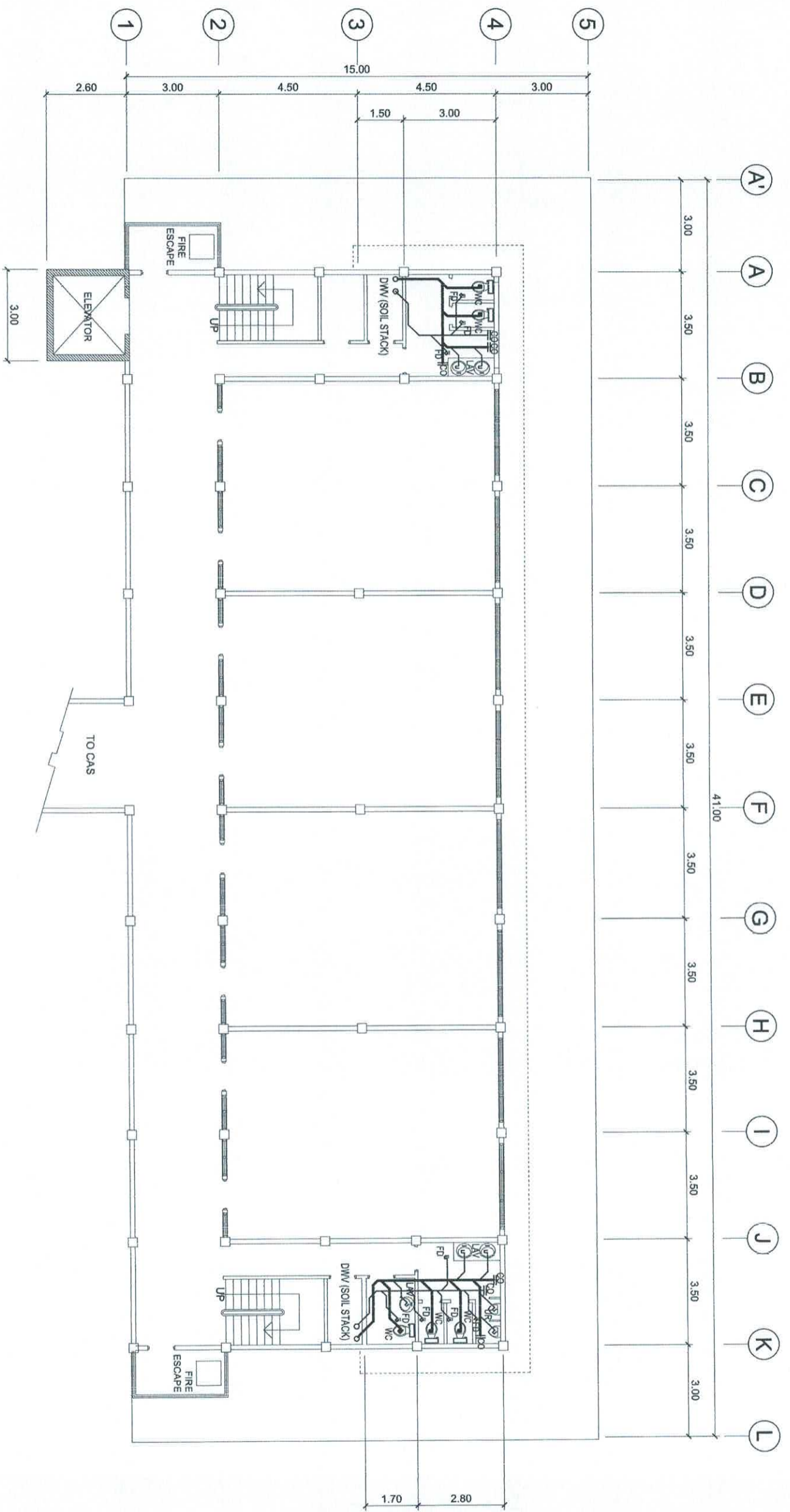


1
P1

LOWER GROUND SANITARY SEWER LINE LAYOUT

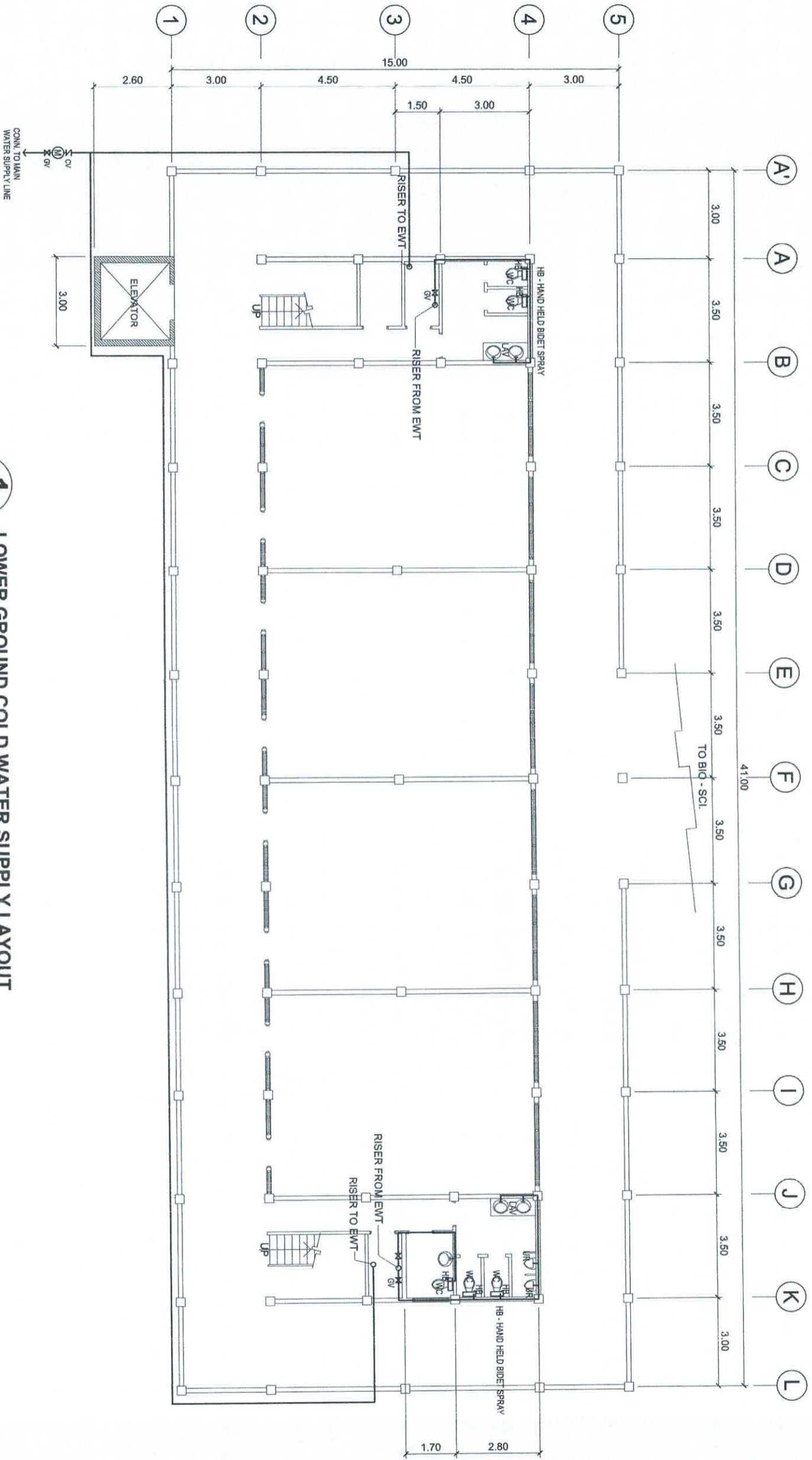
SCALE 1 : 150 MTS.

 PREPARED BY: E. M. RODRIGOS JR. PDU	END USER: A. G. B. DESIVIANO DEAN	REVIEWED BY: 	ENDORSED BY: S. B. BAYOT JR. PDU	REC. APPROVAL: A. G. MASCAYAS VPPD	APPROVED BY: H. D. ROBLES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: P - 1
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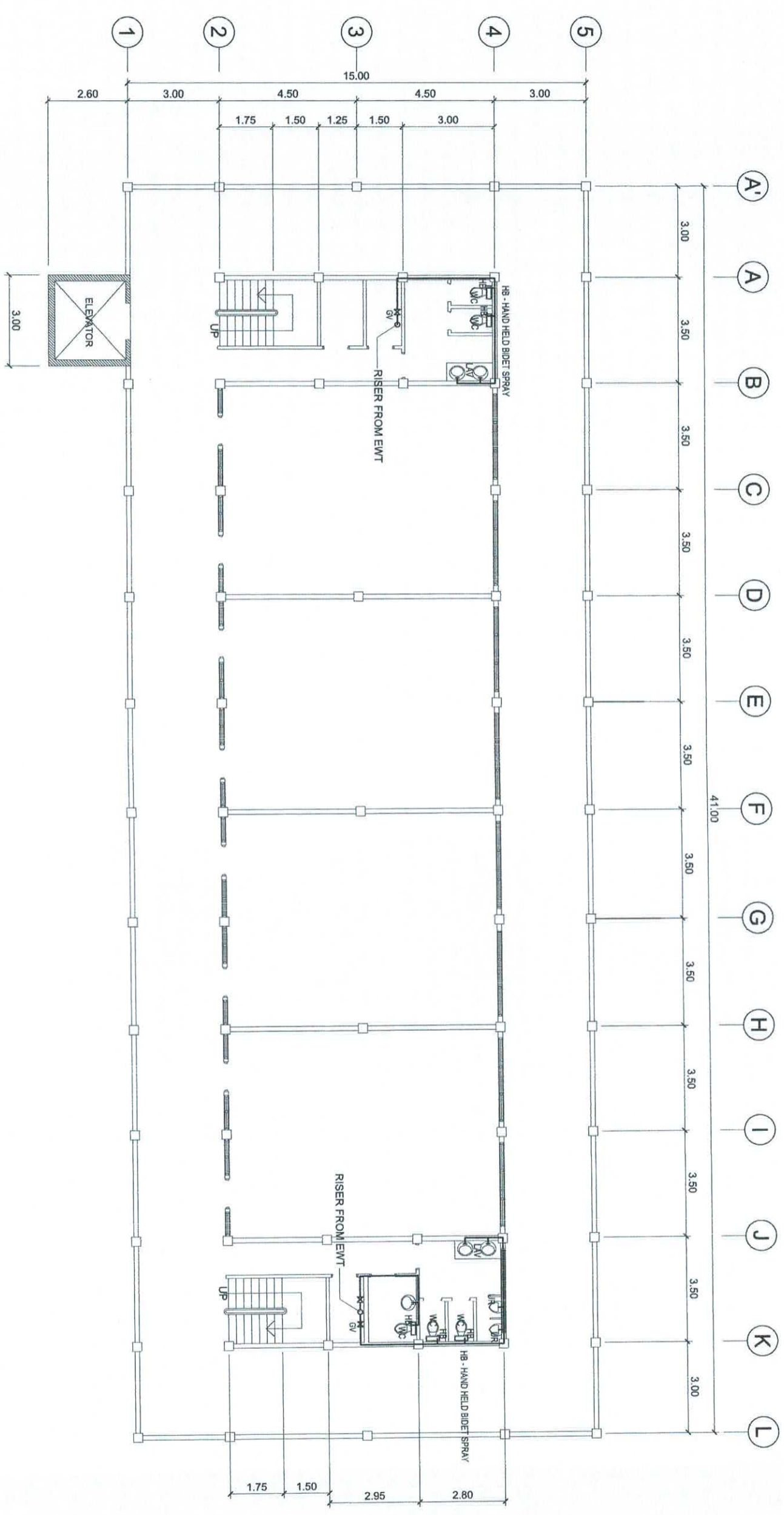
1 TYP. 3RD - ROOF DECK SANITARY SEWER LINE LAYOUT
P 3 SCALE
 1 : 150 MTS.

	PREPARED BY: <i>E. N. RODEHOS JR.</i> PDU OVPFD	END USER: <i>A. G. B. DESIGNANO</i> DEAN CAS	REVIEWED BY: <i>S. B. RAYOT JR.</i> HEAD PDU	ENDORSED BY: <i>G. B. DELOS REYES</i> DIRECTOR PLANNING AND DEPT. OFFICE	REC. APPROVAL: <i>A. G. MAGSABAWAS</i> VPSPD	APPROVED BY: <i>A. D. ROBLES</i> VPSES	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT. NO.: P - 3
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1 LOWER GROUND COLD WATER SUPPLY LAYOUT
P4 SCALE
 1 : 150 MTS.

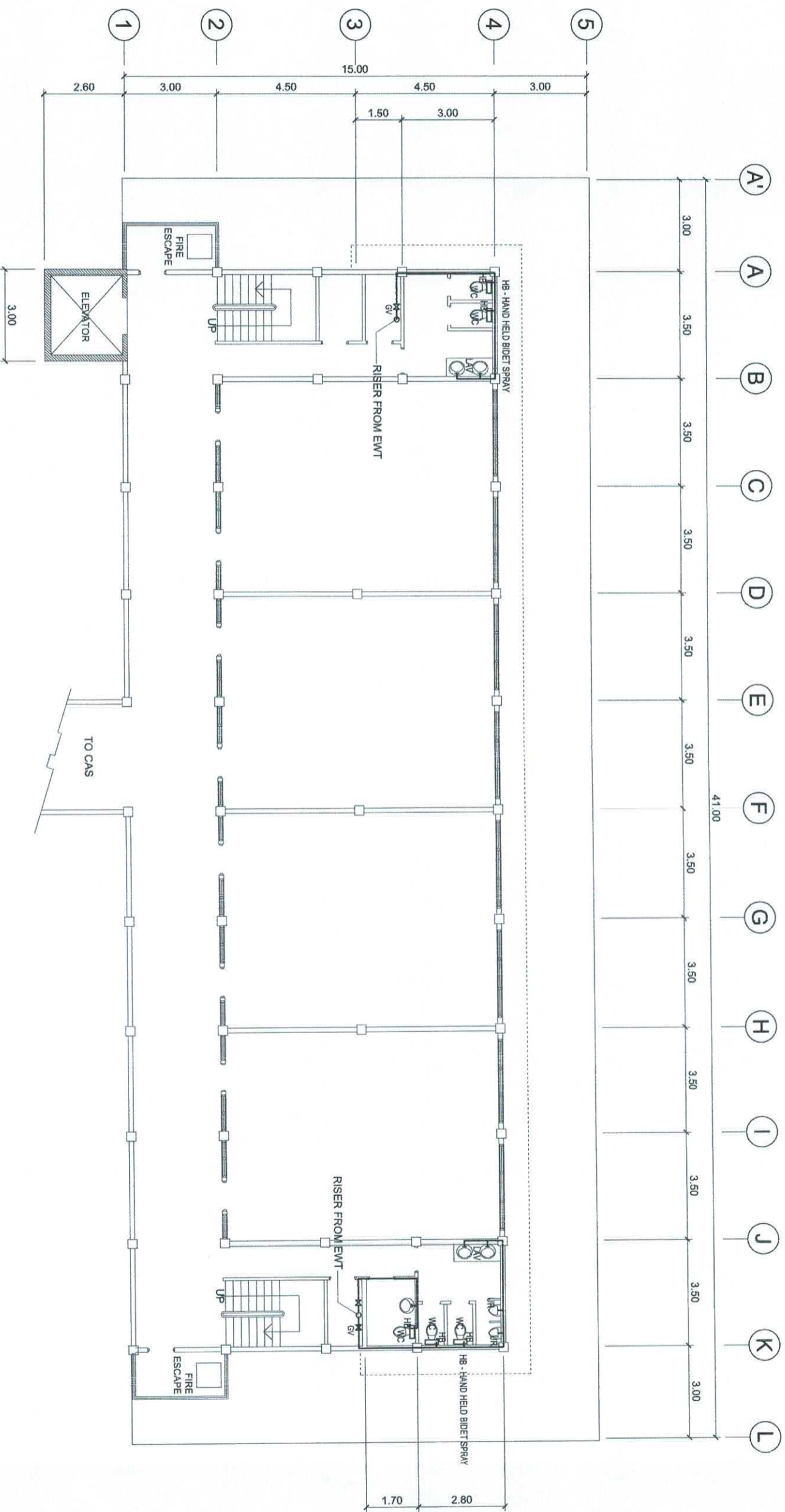
 PREPARED BY: E. N. RODEOS JR. PDU	END USER: M. G. B. DESIVIANO DEAN	REVIEWED BY:	ENDORSED BY: S. B. BAYOT JR. PDU	REC. APPROVAL: O. B. DELOS REYES DIRECTOR PLANNING AND DEV'T. OFFICE	APPROVED BY: A. G. MAGCAYAS VPPD	APPROVED BY: J. X. B. NEPOMUCENO CYSU	APPROVED BY: M. G. ROBLES CYSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: P - 4
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1
UPPER GROUND COLD WATER SUPPLY LAYOUT
 SCALE: P5

1 : 150 MTS.

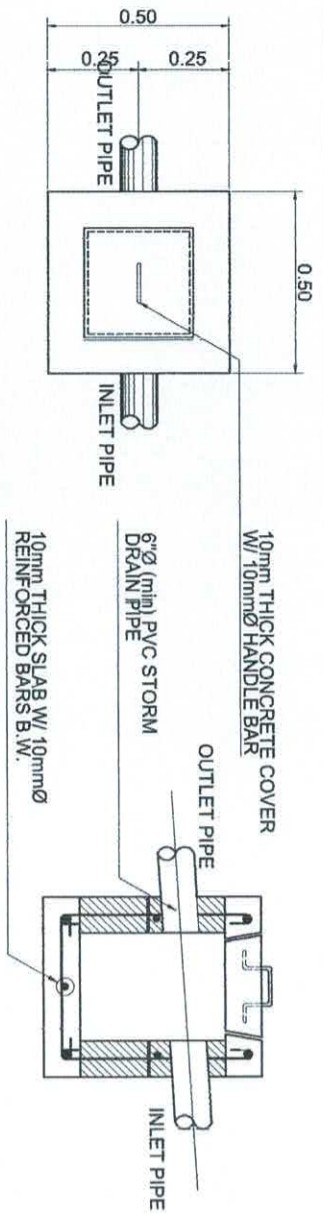
	PREPARED BY: <i>E. N. RODEROS JR.</i> PDU OVP/PP	END USER: <i>A. G. B. DESINGANO</i> DEAN CAS	REVIEWED BY: 	ENDORSED BY: <i>S. B. BAYOT JR.</i> PDU HEAD	REC. APPROVAL: <i>O. B. DELOS REYES</i> DIRECTOR PLANNING AND DEVT. OFFICE	APPROVED BY: 	PROJECT TITLE/ LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: P - 5
	A. G. MAGDANAWAS VP/PPD C/SU	J. X. B. NERONCENO VP/ASS C/SU	H. D. ROBLES PRES C/SU	A. G. MAGDANAWAS VP/PPD C/SU	J. X. B. NERONCENO VP/ASS C/SU	H. D. ROBLES PRES C/SU	PROJECT TITLE/ LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: P - 5



1
P6

TYP. 3RD - ROOF DECK COLD WATER SUPPLY LAYOUT
SCALE 1 : 150 MTS.

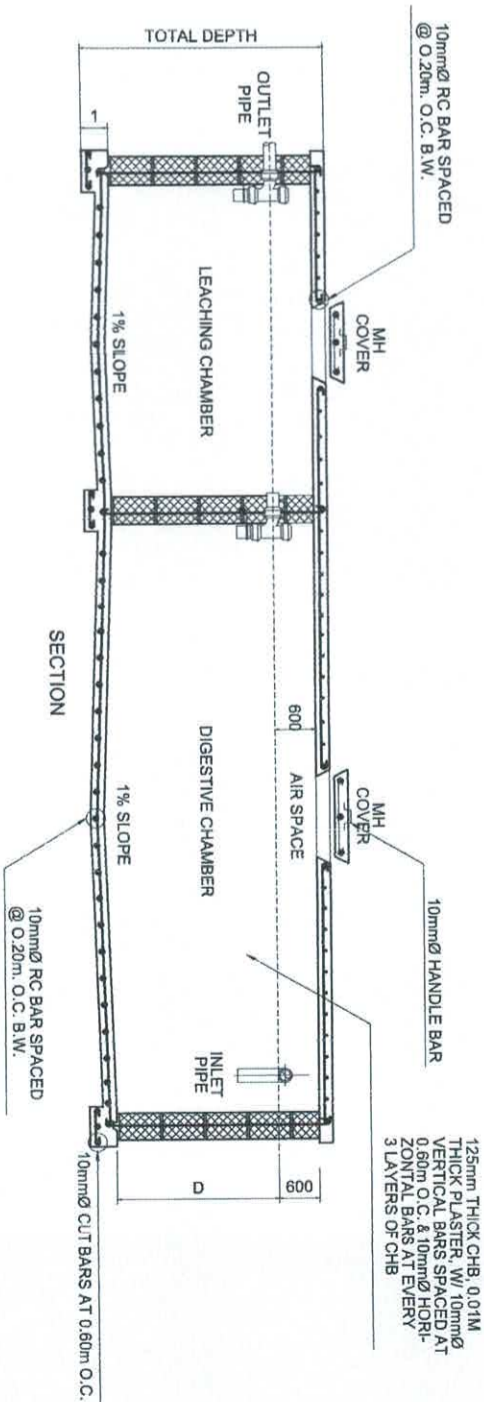
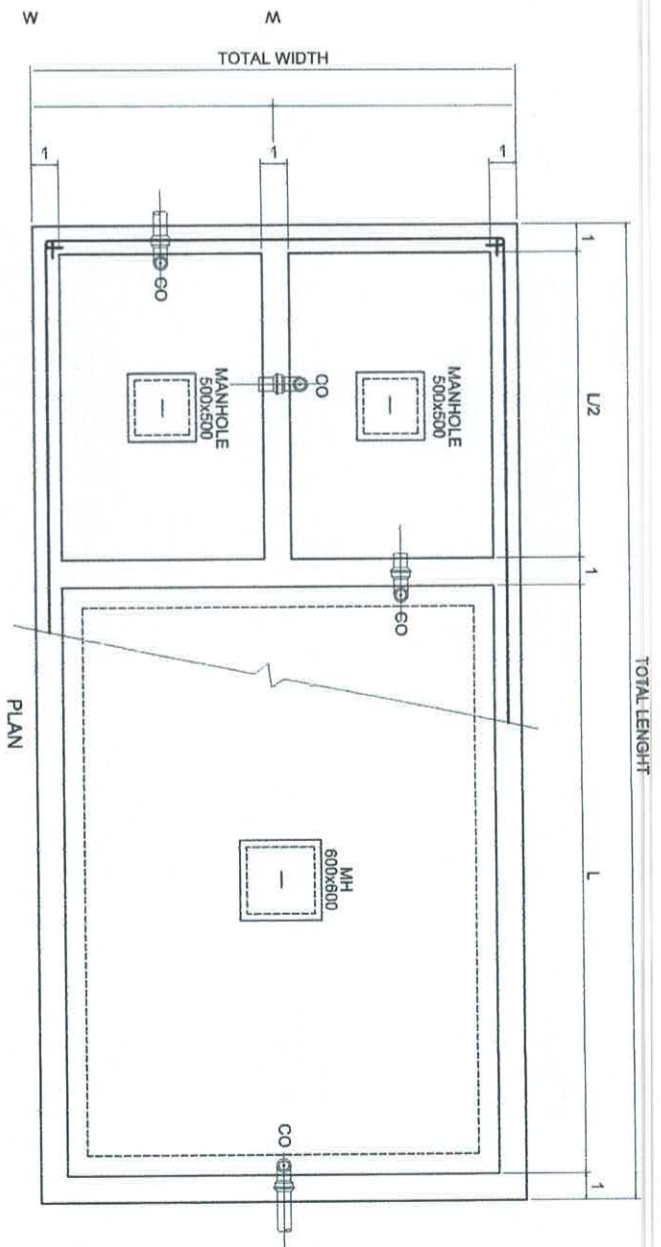
 PREPARED BY: E. N. RODRIGOS JR. <small>PDU</small> <small>OV/PRD</small>	END USER: A. G. B. DESINGANO <small>DEAN</small> <small>CAS</small>	REVIEWED BY:	ENDORSED BY: O. B. DELOSREYES <small>DIRECTOR</small> <small>PLANNING AND DEVT. OFFICE</small>	REC. APPROVAL: A. G. MARGALAS <small>VP/PPD</small> <small>CV/SU</small>	APPROVED BY: H. D. ROBLES <small>PP/PS</small> <small>CV/SU</small>	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING <small>MAIN CAMPUS</small>	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: P - 6
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CATCH BASIN/ JUNCTION BOX DETAIL
SCALE NTS

GENERAL NOTES

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 DISCREPANCY 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 ARCHITECT 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.
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 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.

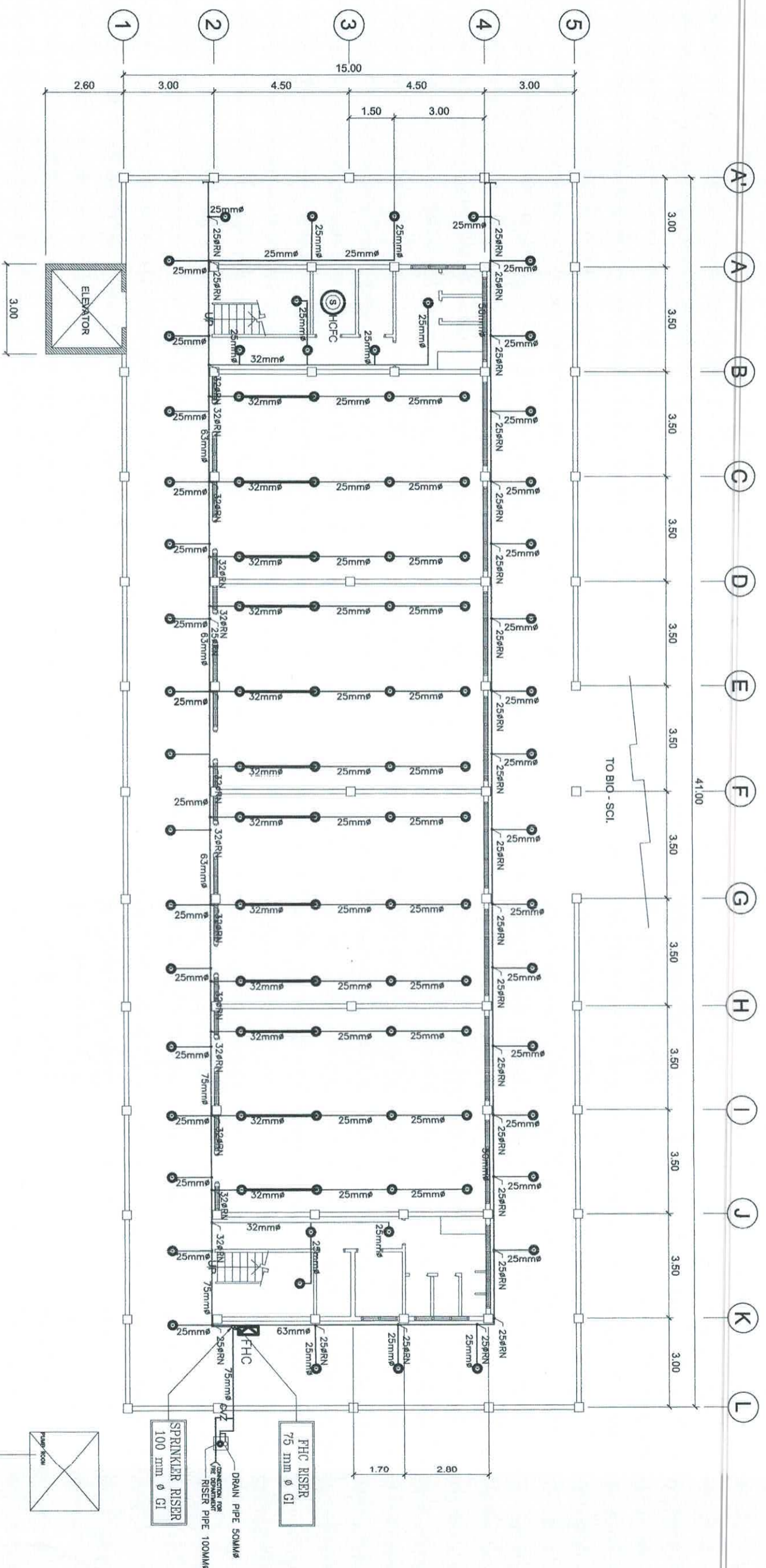


SEPTIC TANK DIMENSION					
LENGTH (L)	L/2	TOTAL LENGTH	WIDTH (W)	TOTAL WIDTH	DEPTH (D)
5000 MM	2500 MM	7500 MM	1250 MM	2500 MM	1800 MM

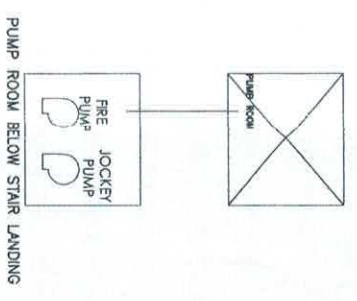
DETAIL OF SEPTIC TANK
SCALE NTS



PREPARED BY: E. N. RODRIGOS JR. PDU	END USER: A. G. B. DESINGANO DEAN	REVIEWED BY: S. B. BAYOT JR. PDU	ENDORSED BY: O. B. DELOS REYES PLANNING AND DESIG. OFFICE	REC. APPROVAL: A. G. MAGDAWAS VP/SD	APPROVED BY: J. X. B. NEPOMUCENO VP/AS	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: P - 7
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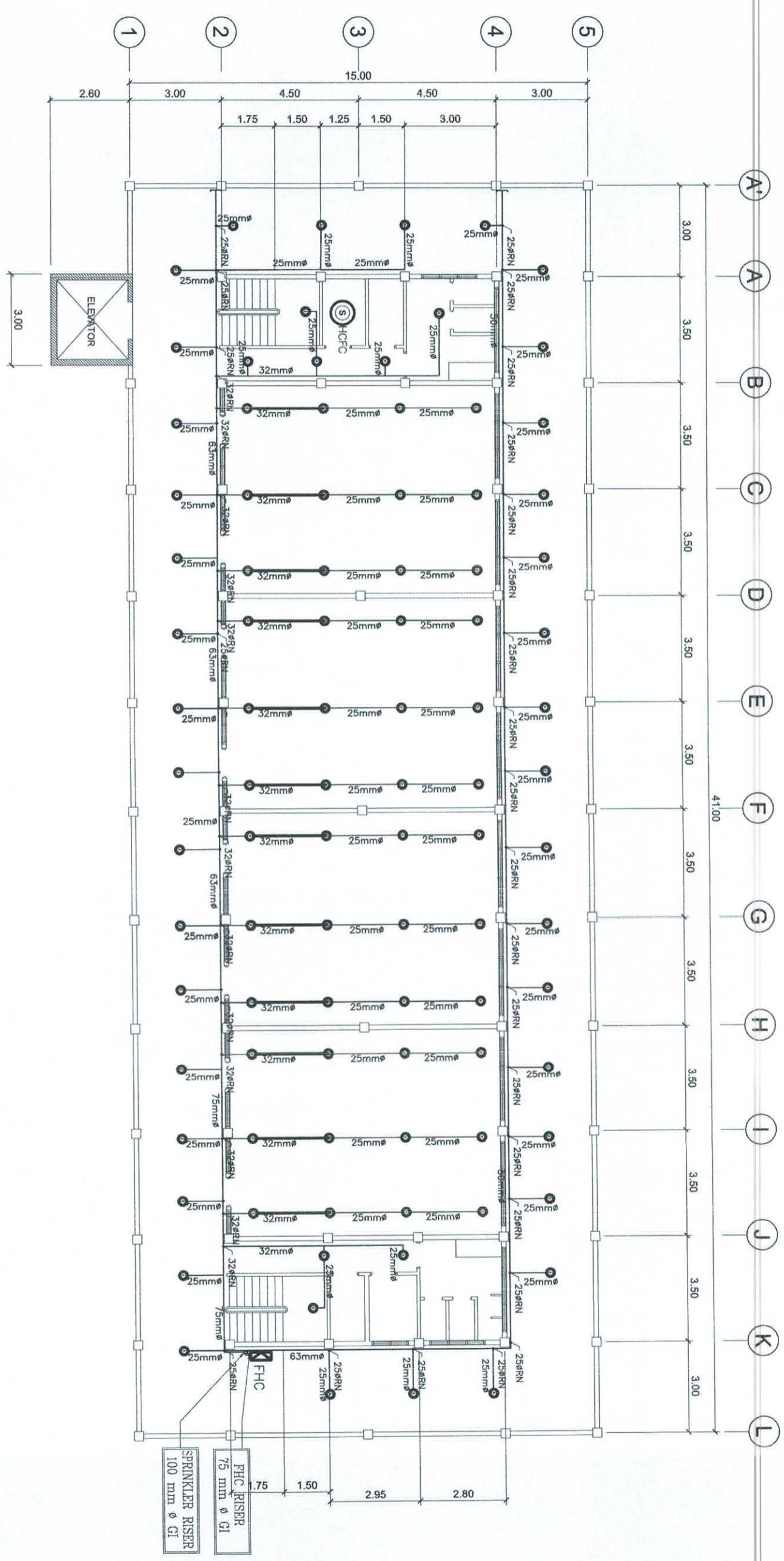
1 LOWER GROUND FLR. WATER SPRINKLER LAYOUT
M 1 SCALE
 1 : 150 MTS.



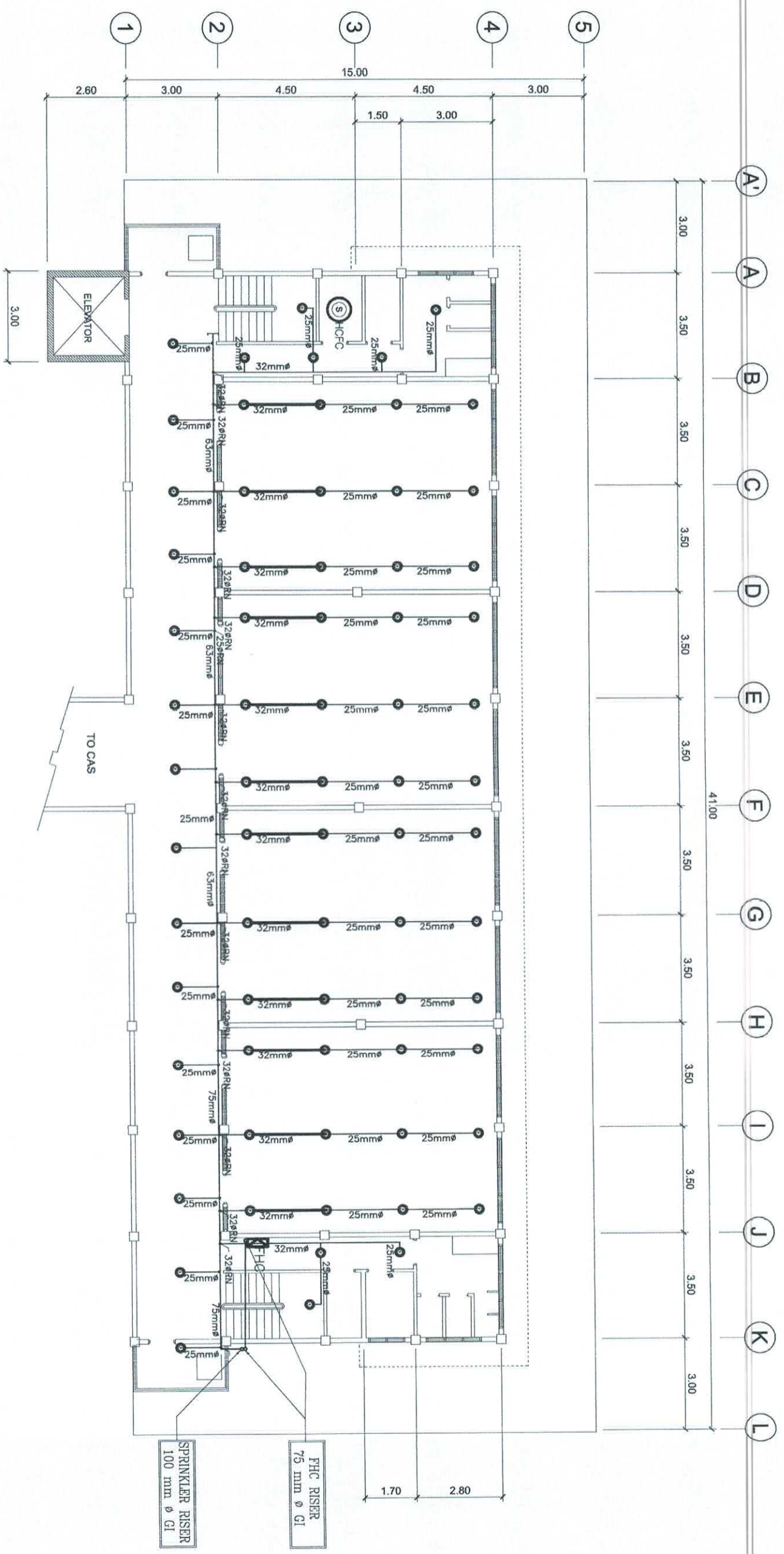
	PREPARED BY: E. N. RODEROS JR. OVP/PE/ DEAN	END USER: R. G. B. DESIGNANO CAS	REVIEWED BY: R. P. PEÑA PROF. ELEC. ENGINEER	ENDORSED BY: G. B. DELOS REYES DIRECTOR PLANNING AND DEPT. OFFICE	REC. APPROVAL: A. G. MAGOMAS CVSU	APPROVED BY: A. D. ROBLES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: M - 1
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PREPARED BY: E. N. RODRIGOS JR. PDU	END USER: A. G. B. DESINGANO DEAN	REVIEWED BY: R. M. PENNA PROF. ELEC. ENGINEER	ENDORSED BY: O. B. DELOSREYES DIRECTOR PLANNING AND DEPT. OFFICE	REC. APPROVAL: A. G. MAGDAWAS VP/D	APPROVED BY: H. D. ROBLES PRES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: M - 2
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1 UPPER GROUND FLR. WATER SPRINKLER LAYOUT
M 2 SCALE
 1 : 150 MTS.



1
THIRD FLOOR WATER SPRINKLER LAYOUT

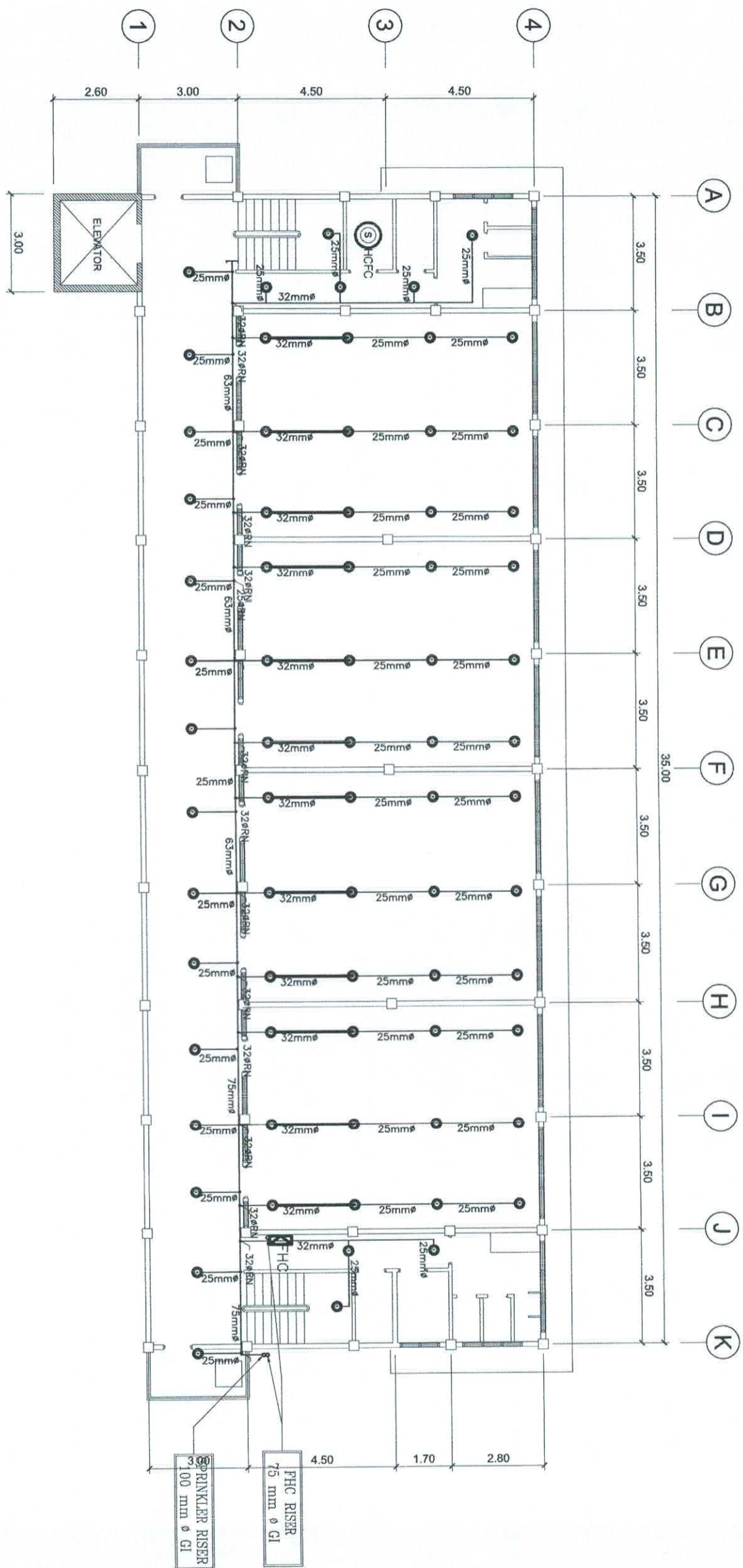
M 3
SCALE

1 : 150 MTS.

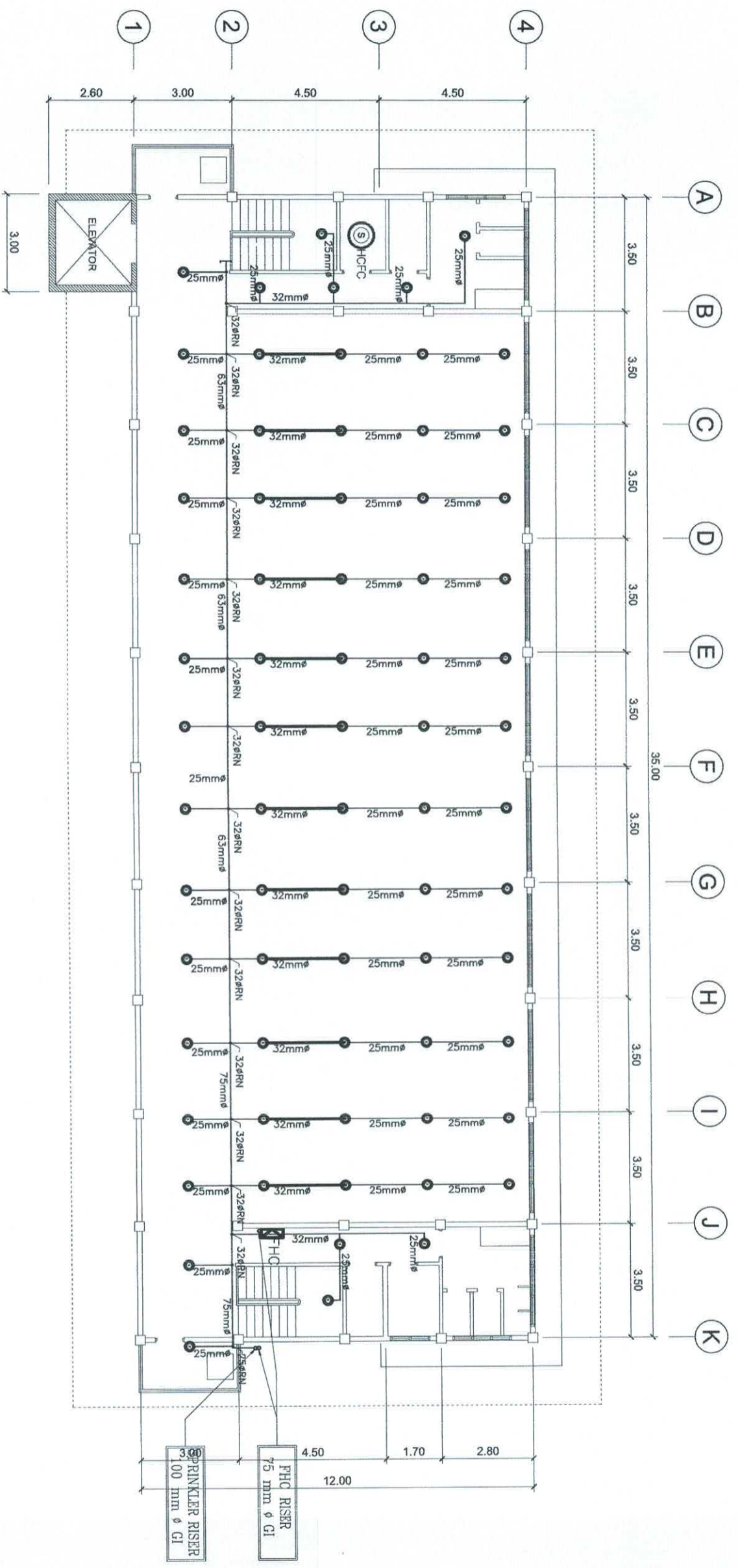
 PREPARED BY: E. N. RODEROS JR. A.G. B. DESINCHANO P/U DEAN CAS	END USER: A.G. B. DESINCHANO CAS	REVIEWED BY: R. PENIA PROF. ELEC. ENGINEER	ENDORSED BY: S. B. BAYOT JR. HEAD BDU	ENDORSED BY: O. B. DELOS-REYES DIRECTOR PLANNING AND DEVT. OFFICE	REC. APPROVAL: A. G. MAGDAWAS V/PPD C/SU	APPROVED BY: J. X. B. NEPOMUCENO VP/ASST C/SU	APPROVED BY: H. D. ROBLES PRES C/SU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: M - 3
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PREPARED BY: E. N. RODEROS JR. PDU
 END USER: A. G. B. DESINIANO CAS
 REVIEWED BY: R. P. PENA PRO-FLEC. ENGINEER
 ENDORSED BY: S. B. BAYOT JR. PDU
 O. B. DELOS REYES PLANNING AND DES. OFFICE
 REC. APPROVAL: A. G. MAGAWAS C/SU
 J. X. B. NEPOMUCENO C/SU
 APPROVED BY: H. D. ROBLES C/SU
 PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS
 IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY
 SHT NO.: M-4



1
M 4
 SCALE
1 : 150 MTS.



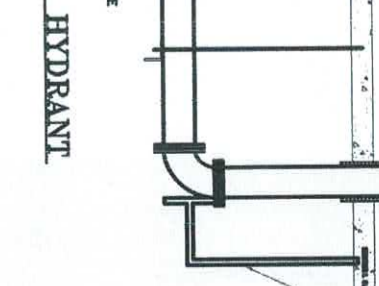
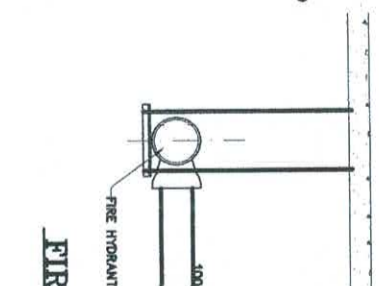
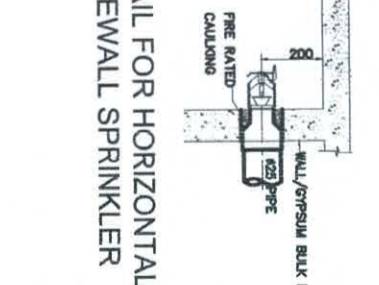
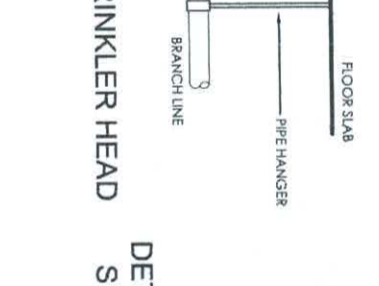
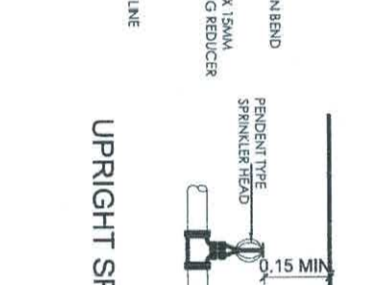
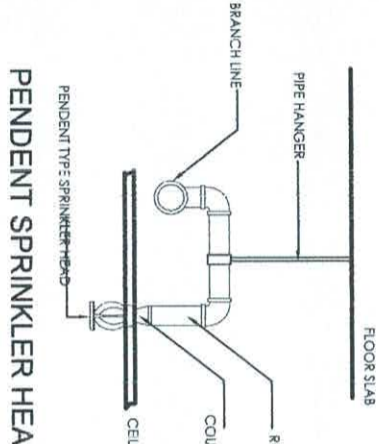
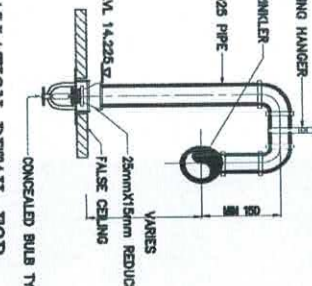
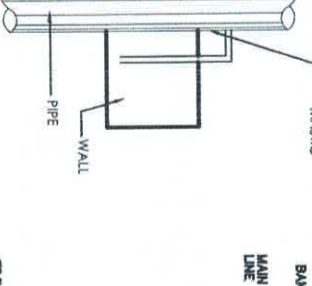
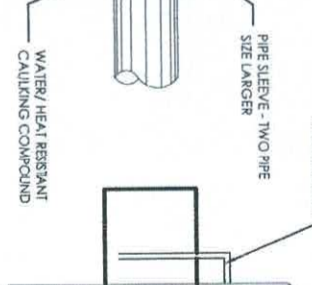
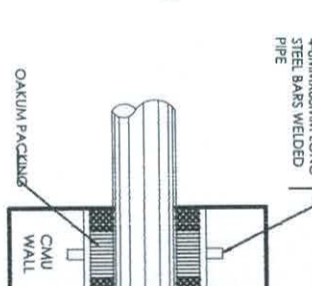
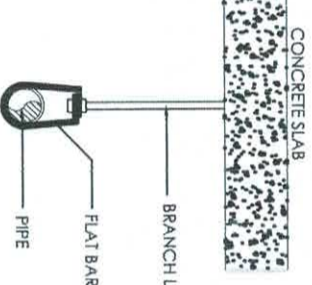
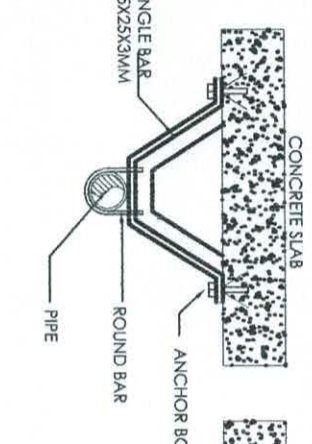
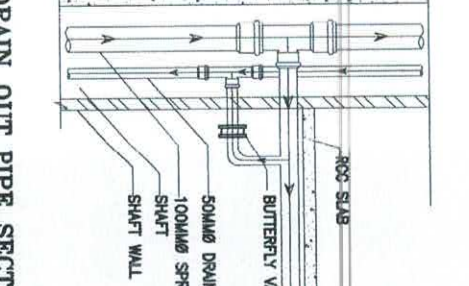
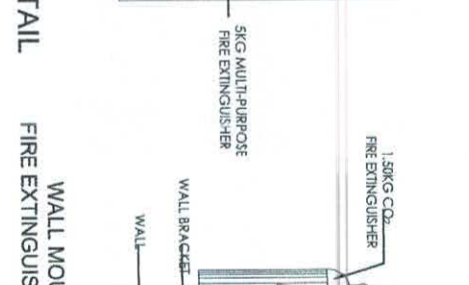
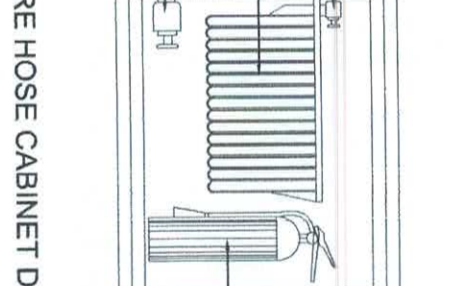
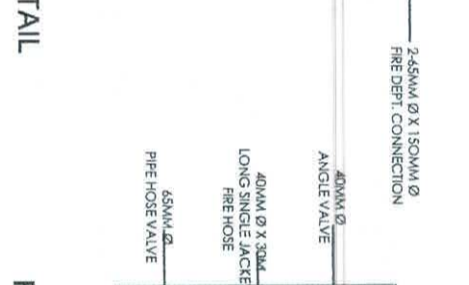
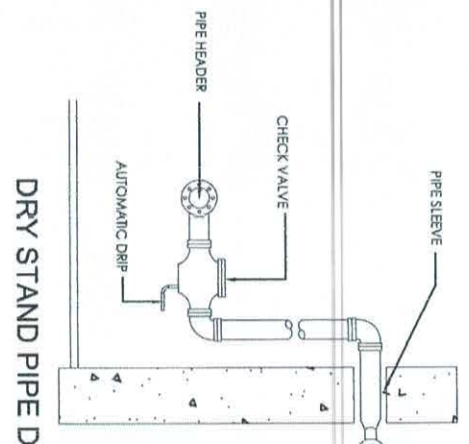
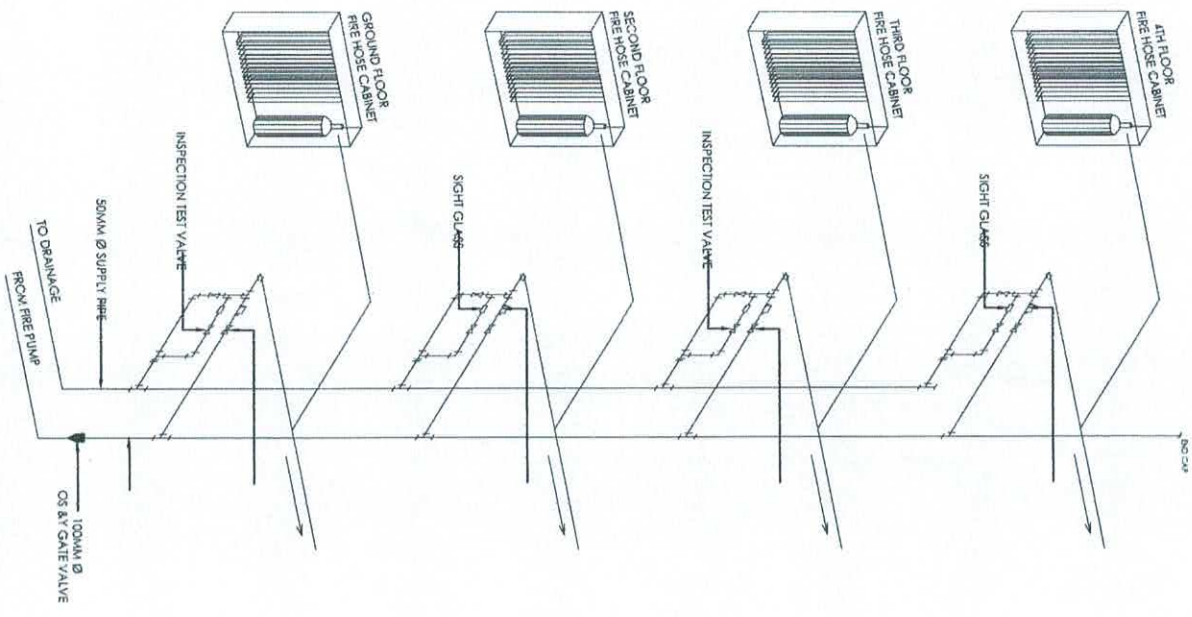
1
M 5
SCALE

ROOF DECK WATER SPRINKLER LAYOUT

1 : 150 MTS.

	PREPARED BY: <i>E. N. RODRIGOS JR.</i> PDU	END USER: A. G. B. DESINGANO DEAN	REVIEWED BY: <i>R. M. BARRERA</i> PROF. ELEC. ENGINEER	S. B. BAYON JR. HEAD PDU	ENDORSED BY: <i>O. B. DELOSREYES</i> PLANNING AND DES. OFFICE	REC. APPROVAL: <i>A. G. MACAWAS</i> DVSU	J. X. B. NEPOMUCENO VPASST DVSU	APPROVED BY: <i>H. D. ROBLES</i> DVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT. NO.: M - 5
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FIRE HOSE CABINET RISER DIAGRAM

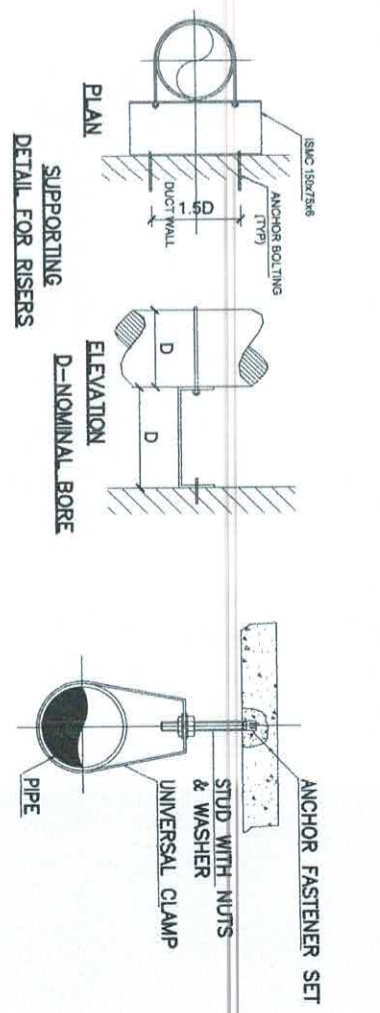
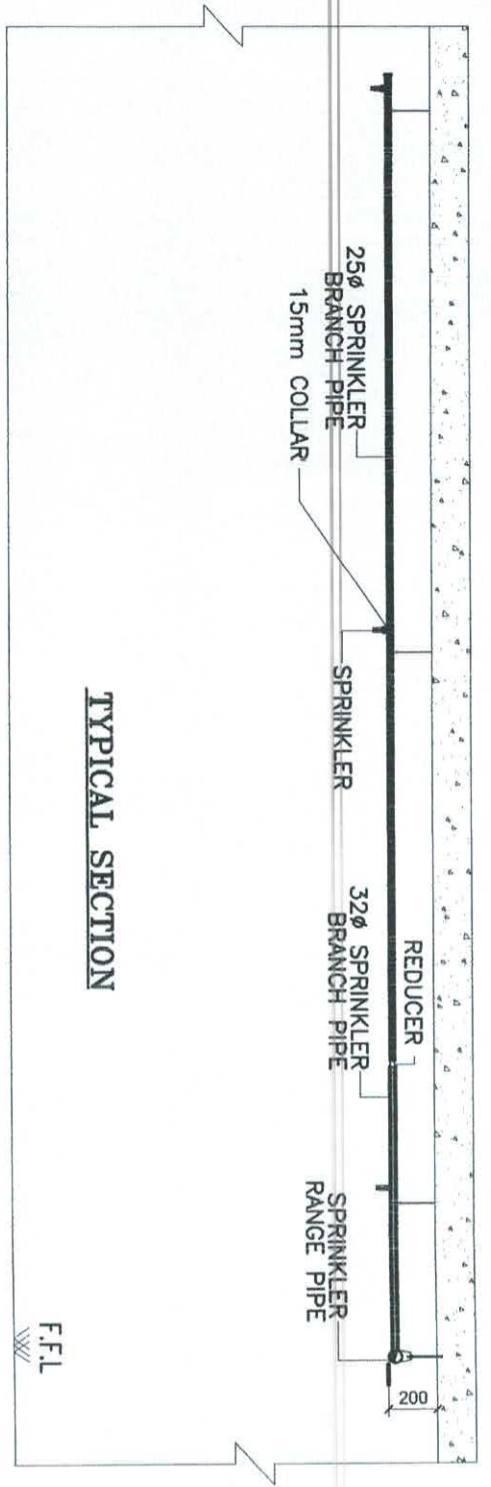


FIRE PROTECTION DETAILS

1
M:6 SCALE

PREPARED BY: E. N. RODRIGOS JR. PDU	END USER: A. G. B. DESIMIANO DEAN	REVIEWED BY: R. M. HERRERA PROF. ELEC. ENGINEER	ENDORSED BY: S. B. BAYOT JR. PDU	REC. APPROVAL: A. G. MAGCAYAS CVSU	APPROVED BY: J. K. B. NEPOMUCENO VP/ISS	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: M - 6
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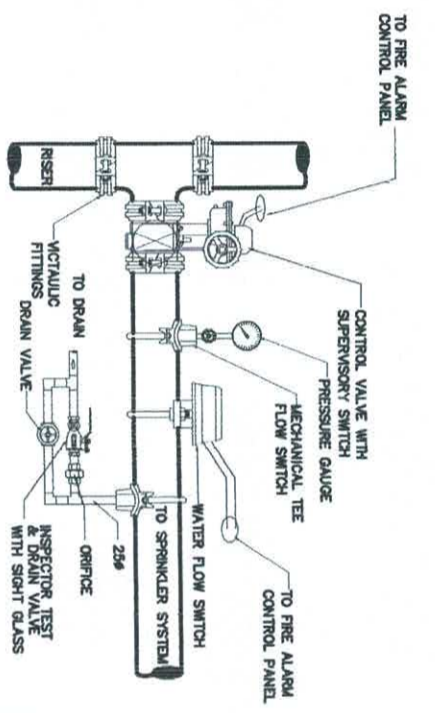




STUD ROD SIZES

PIPE SIZE	DIA. OF ROD	PIPE SIZE	DISTANCE BETWEEN HANGERS
25 MMφ	10 MM.	25 MMφ	3.0 M.
32 MMφ	10 MM.	32 MMφ	3.0 M.
40 MMφ	10 MM.	40 MMφ	3.0 M.
50 MMφ	10 MM.	50 MMφ	3.0 M.
65 MMφ	10 MM.	65 MMφ	3.0 M.
80 MMφ	10 MM.	80 MMφ	3.0 M.
100 MMφ	10 MM.	100 MMφ	4.0 M.
150 MMφ	12.7 MM.	150 MMφ	4.0 M.

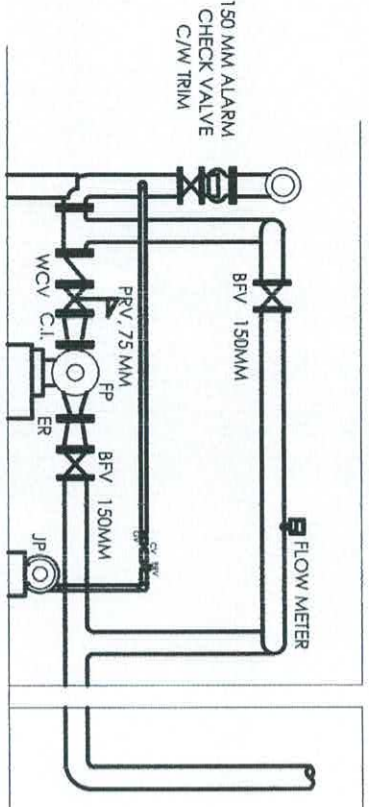
TYP. PIPE SUPPORT DETAILS



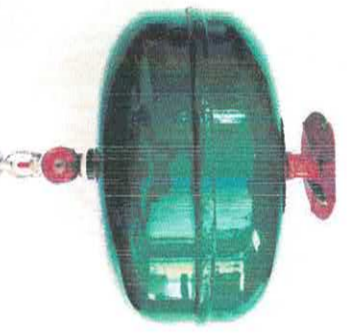
ZONE CONTROL VALVE

EQUIPMENT

DESIGNATION	QTY.	CAPACITY (GPM)	TYPE	RPM	WORKING PRESSURE	KW (HP) EFF.	VOLTS	PHASE	HERTZ	REMARKS
FIRE PUMP	1	500	HORIZONTAL SPLIT CASE	3650	120 PSI.	45 (60HP)	65 %	220	3	ELECTRIC STARTER FIRE PUMP
JOCKEY PUMP	1	20	HORIZONTAL MULTI STAGE	3500	125 PSI.	3.73 (5 HP)	65 %	220	3	ELECTRIC STARTER JOCKEY PUMP



ELEVATION



Ceiling Type HCFC 123 Automatic Fire Extinguisher

FIRE/JOCKEY PUMP PIPING LAYOUT
SCALE N.T.S.

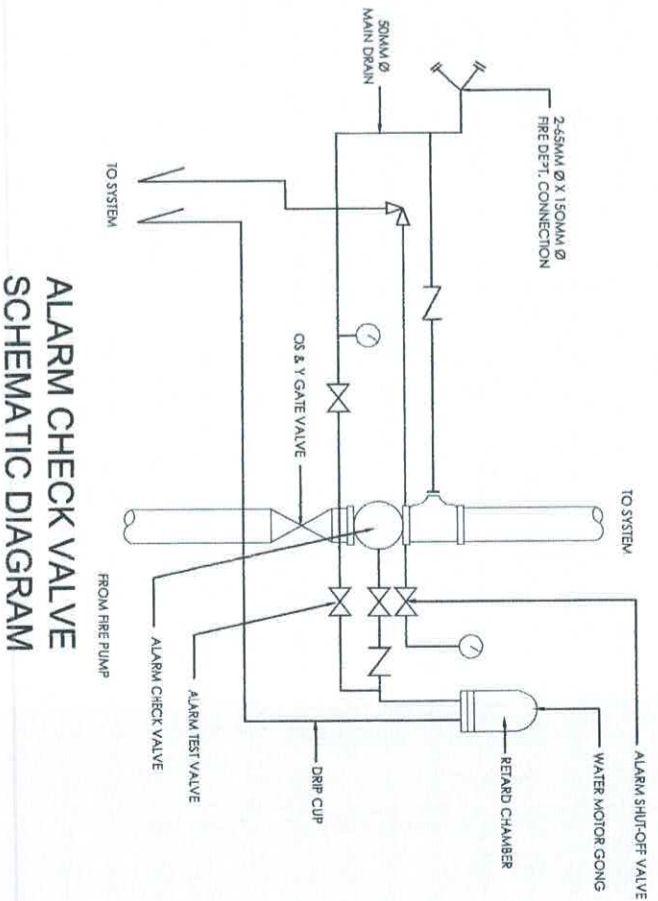
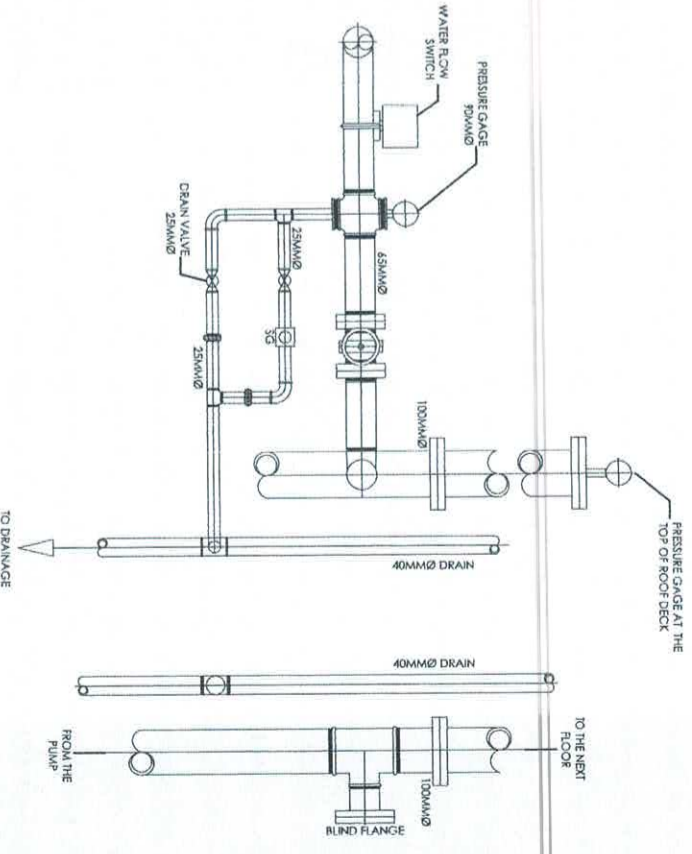
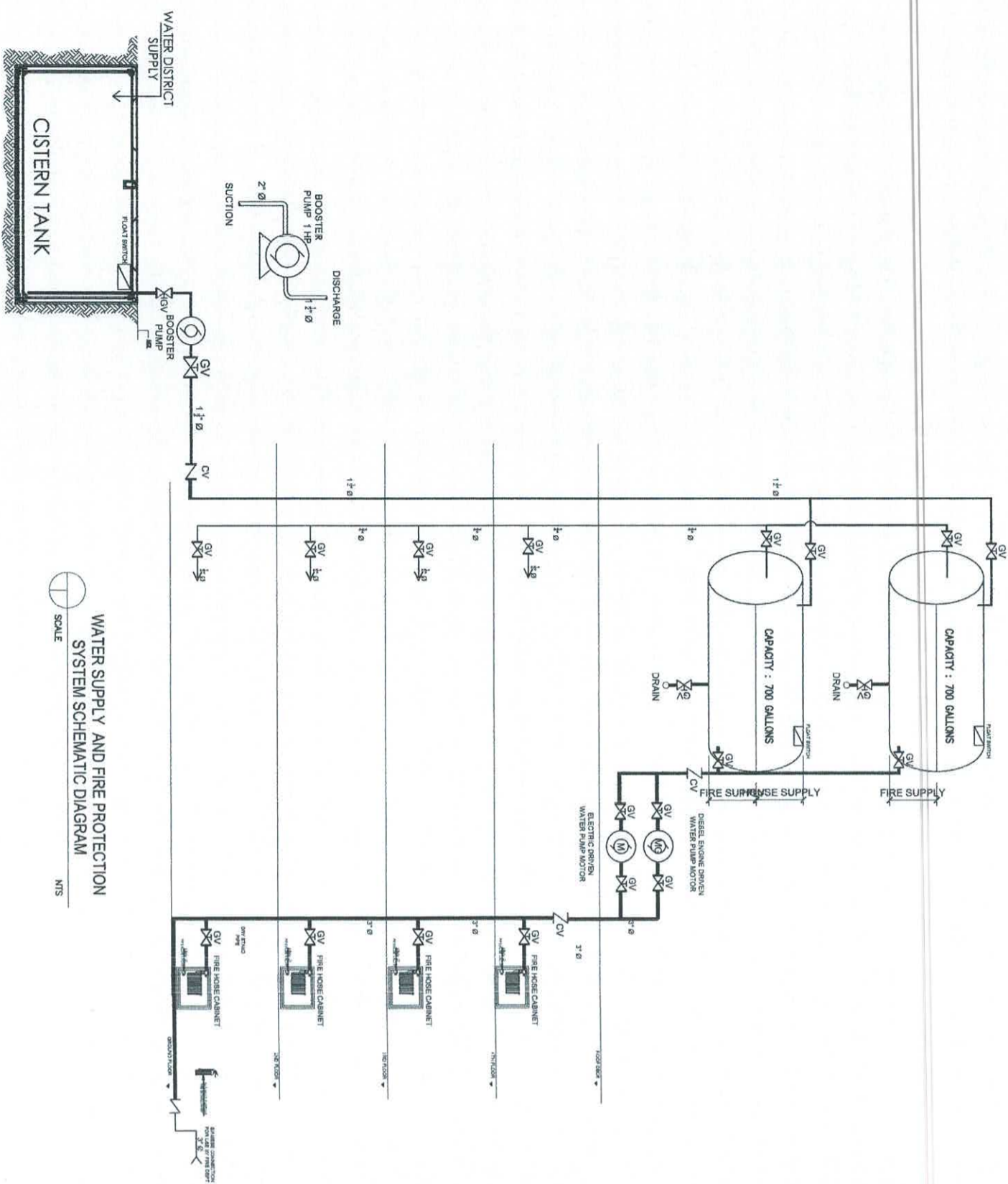
1
M 7 SCALE

FIRE PROTECTION DETAILS

N.T.S.

- NOTES:**
- ALL PIPES SHALL HAVE A STRENGTH 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

PREPARED BY: <i>E. N. RODEROS JR.</i> PDU	END USER: A. G. B. DESINIANO DEAN	REVIEWED BY: <i>R. P. MENA</i> PROF. ELEC. ENGINEER	ENDORSED BY: <i>O. B. DELLOS REYES</i> DIRECTOR PLANNING AND BERT. OFFICE	REC. APPROVAL: <i>A. G. MAGCAYAS</i> CVSU	APPROVED BY: <i>H. D. ROBLES</i> CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: M - 7
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FIRE PROTECTION DETAILS

1
SCALE: M 8

N. T. S.

	PREPARED BY: E. N. RODRIGOS JR. PDU	END USER: A. G. B. DESINGIANO CAS	REVIEWED BY: R. M. M. M. PROF. ELEC. ENGINEER	ENDORSED BY: O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	REC. APPROVAL: A. G. MAGCANA VPPD	APPROVED BY: H. D. ROBLES PRES. CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: M - 8
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GENERAL NOTES :

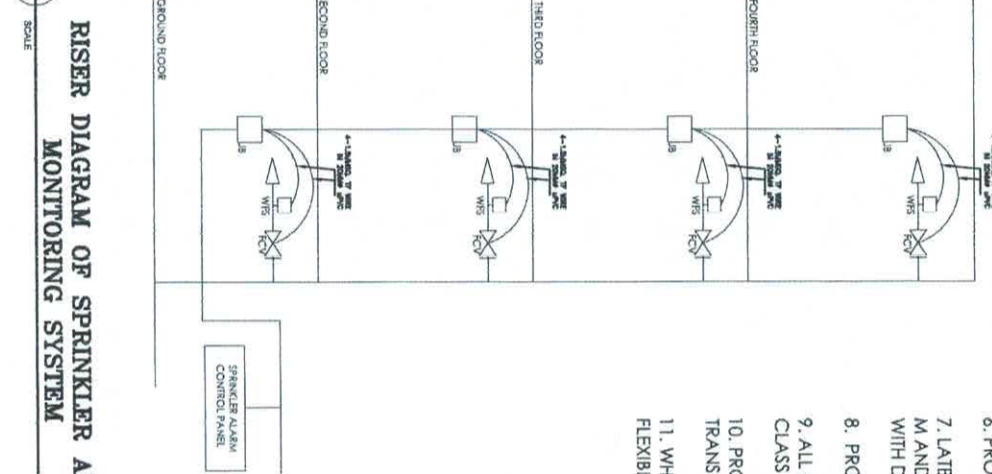
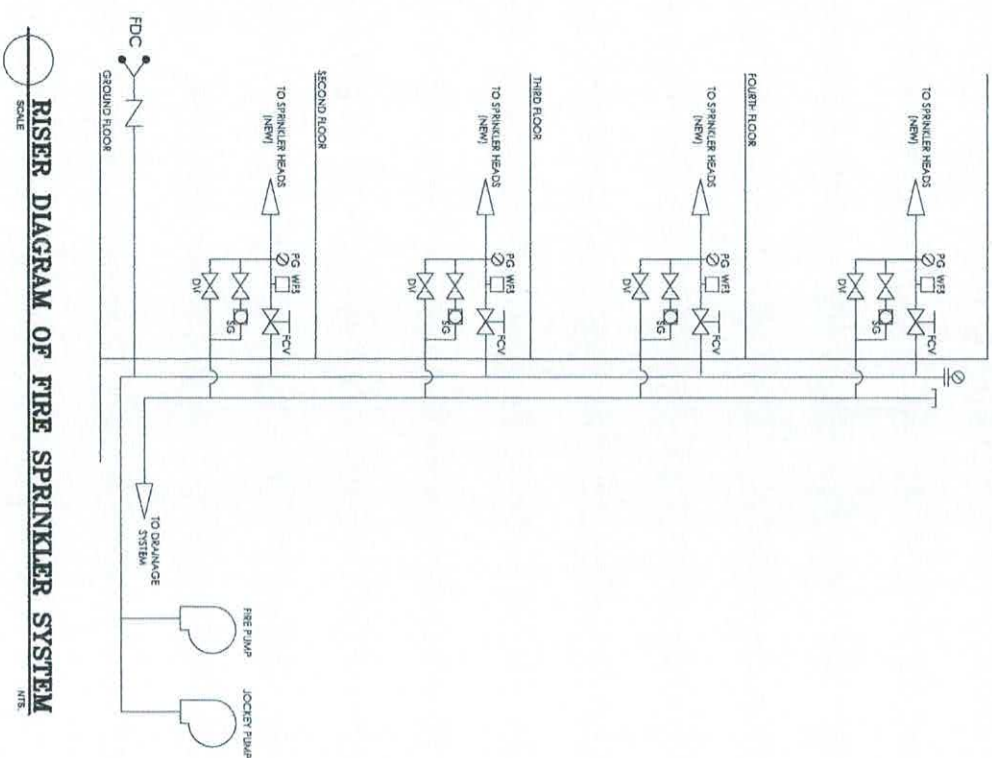
1. INSTALLATION OF FIRE SPRINKLER SYSTEM SHALL CONFORM TO NFPA-13 REQUIREMENTS.
2. COORDINATE WITH OTHER WORKS, INCLUDING THE PLUMBING PIPING AS NECESSARY TO INTERFACE COMPONENTS OF FIRE PROTECTION PIPING PROPERLY WITH OTHER WORKS
3. SPRINKLER SHALL BE SPACED NOT LESS THAN 6 FT (1.8 M) ON CENTERS.
4. 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 EXTINGUISHER IN TRANSFORMER VAULTS.
11. WHERE SPRINKLER PASSES THROUGH SEISMIC SEPARATION ASSEMBLIES, FLEXIBLE SHALL BE PROVIDED.
12. PROVIDE AUXILIARY 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 ARCHITECT 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 DUTY LICENSED REGISTERED MECHANICAL ENGINEER.

MATERIAL SPECIFICATIONS :

- FIRE LINES - SHALL BE BLACK IRON (BI) 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 STRENGTH 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



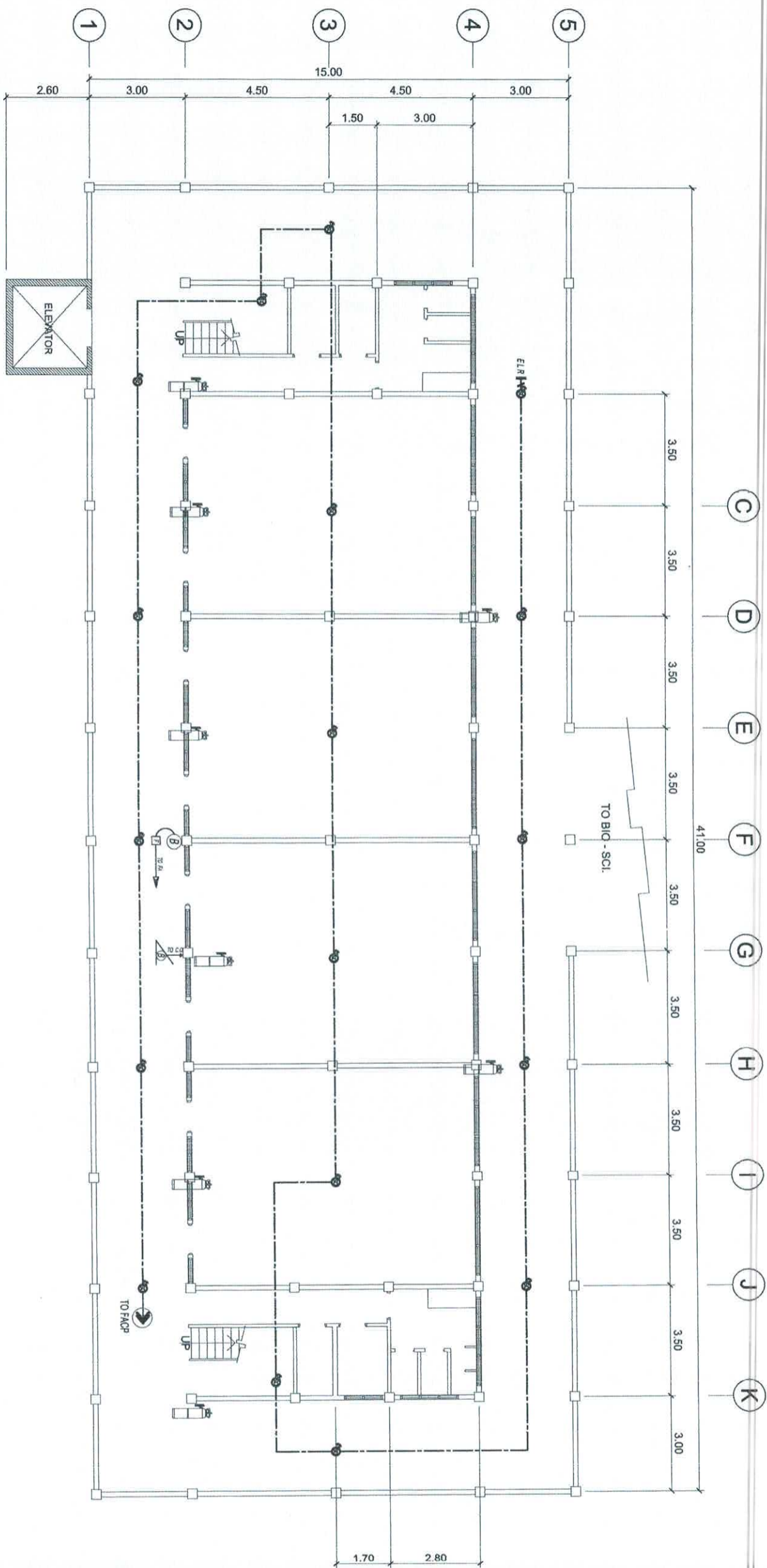
LEGEND & ABBREV. :

	GATE VALVE		C.I.	CONCENTRIC INCREASER, OPTIONAL		PRV	PRESSURE REDUCING VALVE
	CHECK VALVE		ER	ECCENTRIC REDUCER, OPTIONAL		FP	FIRE PUMP
	WATER FLOW SWITCH		RN	RISER NIPPLE		JP	JOCKEY PUMP
	TE CONNECTION		BFV	BUTTERFLY VALVE, WATER TYPE		FA	FIRE ALARM
	ELBOW CONNECTION		GV	GATE VALVE RISING STEM		B	BELL
	OS & Y GATE VALVE WITH MONITOR SWITCH		WCV	WATER TYPE CHECK VALVE			
	END CAP		CV	SWING TYPE CHECK VALVE			
	PIPING SYSTEM						
	PRESSURE RELIEF VALVE						
	PENDENT UPRIGHT SPRINKLER						
	SIDE WALL SPRINKLER						
	FIRE EXTINGUISHER						
	SMOKE DETECTOR						
	EAGLE HCC 123 (Automatic) Cellulose Type Fire Extinguisher						
	HFC						

PREPARED BY: *[Signature]* END USER: *[Signature]* REVIEWED BY: *[Signature]* ENDORSED BY: *[Signature]* REC. APPROVAL: *[Signature]* APPROVED BY: *[Signature]* PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS

E. N. RODEROS JR. PDU A. G. B. DESINGANO CAS R. ALMENA PROF. ELEC. ENGINEER S. B. BAYOT JR. PDU Q. B. DELOS REYES DIRECTOR PLANNING AND DEPT. OFFICE A. G. MAGDAWAS CVSU J. X. B. NEPOMUCENO CVSU H. D. ROBLES CVSU CAVITE STATE UNIVERSITY MAIN CAMPUS

IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY SHT NO: M - 5

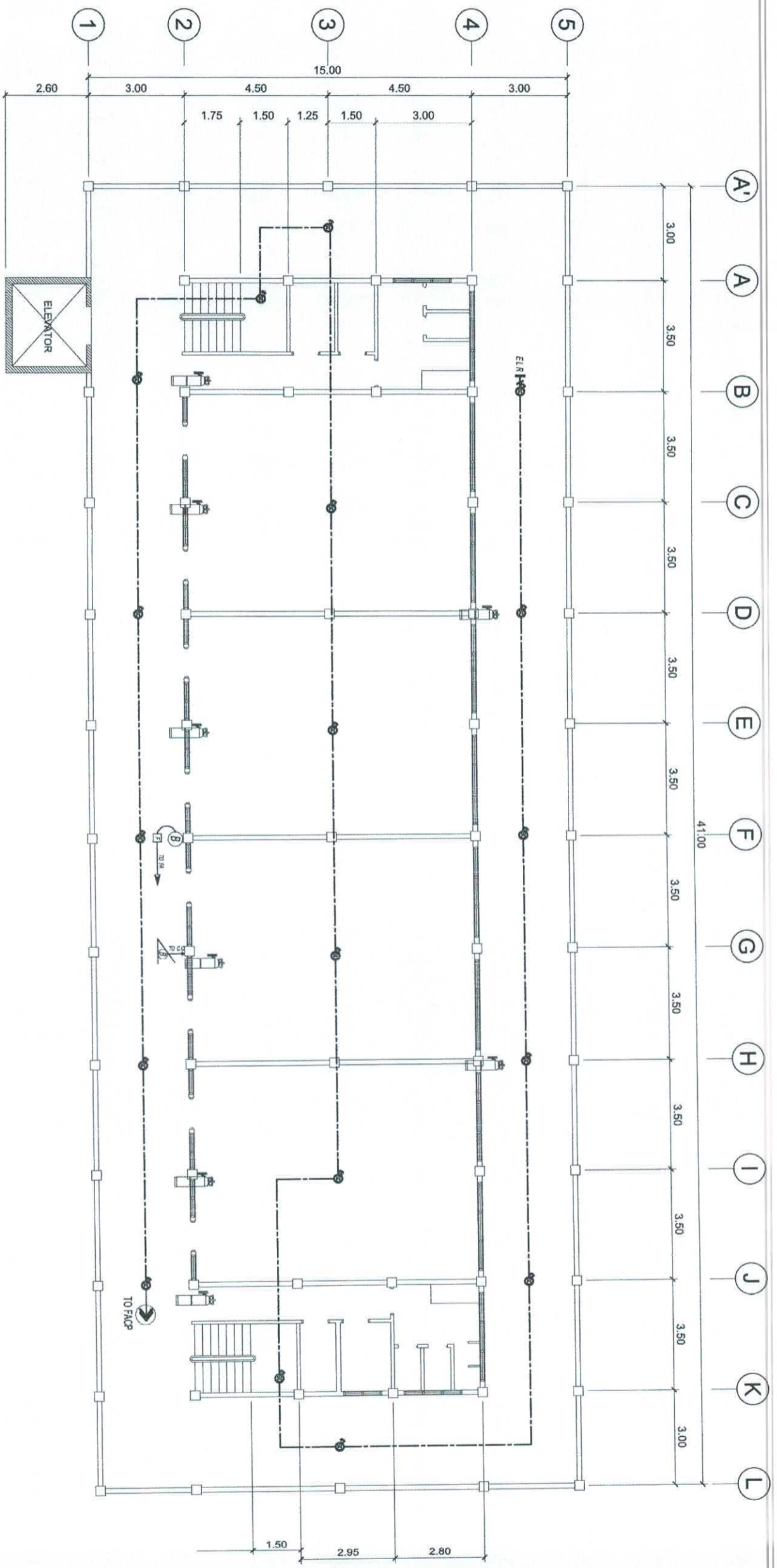


1
EC 1

LOWER GROUND FLR. FIRE DETECTION AND ALARM SYSTEM LAYOUT

1 : 150 MTS.

 PREPARED BY: E. N. RODRIGOS JR. OVP/PROJ. DEAN	END USER: A. G. B. DESINGANO CAS	REVIEWED BY:  PROF. ELEC. ENGINEER	ENDORSED BY:  HEAD PDU	ENDORSED BY:  DIRECTOR PLANNING AND DEVT. OFFICE	REC. APPROVAL:  VPPD CYSU	APPROVED BY:  VPPASS CYSU	APPROVED BY:  PRES CYSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITTE STATE UNIVERSITY	SHT NO.: EC - 1
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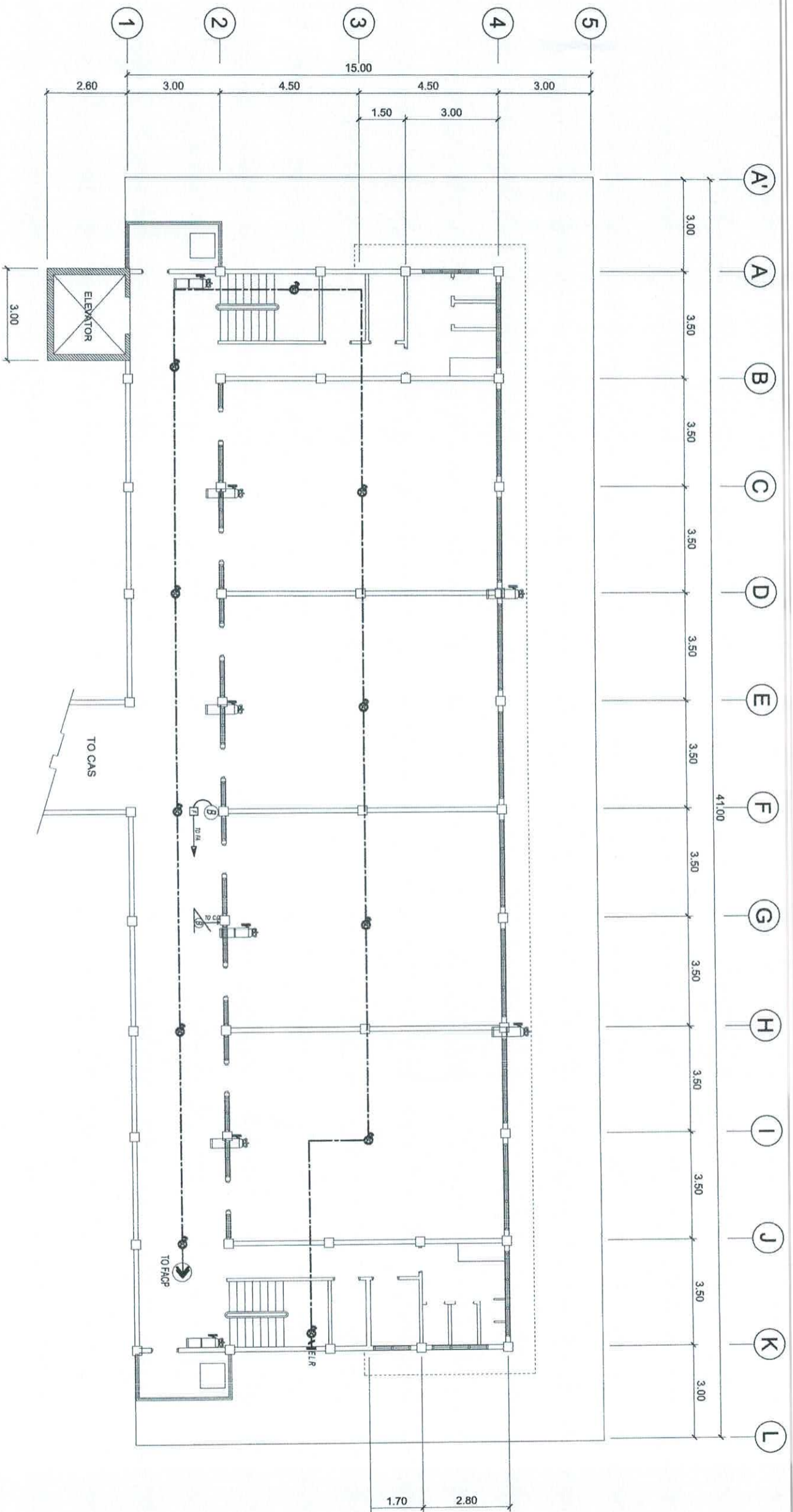


1
EC 2

UPPER GROUND FLR. FIRE DETECTION AND ALARM SYSTEM LAYOUT

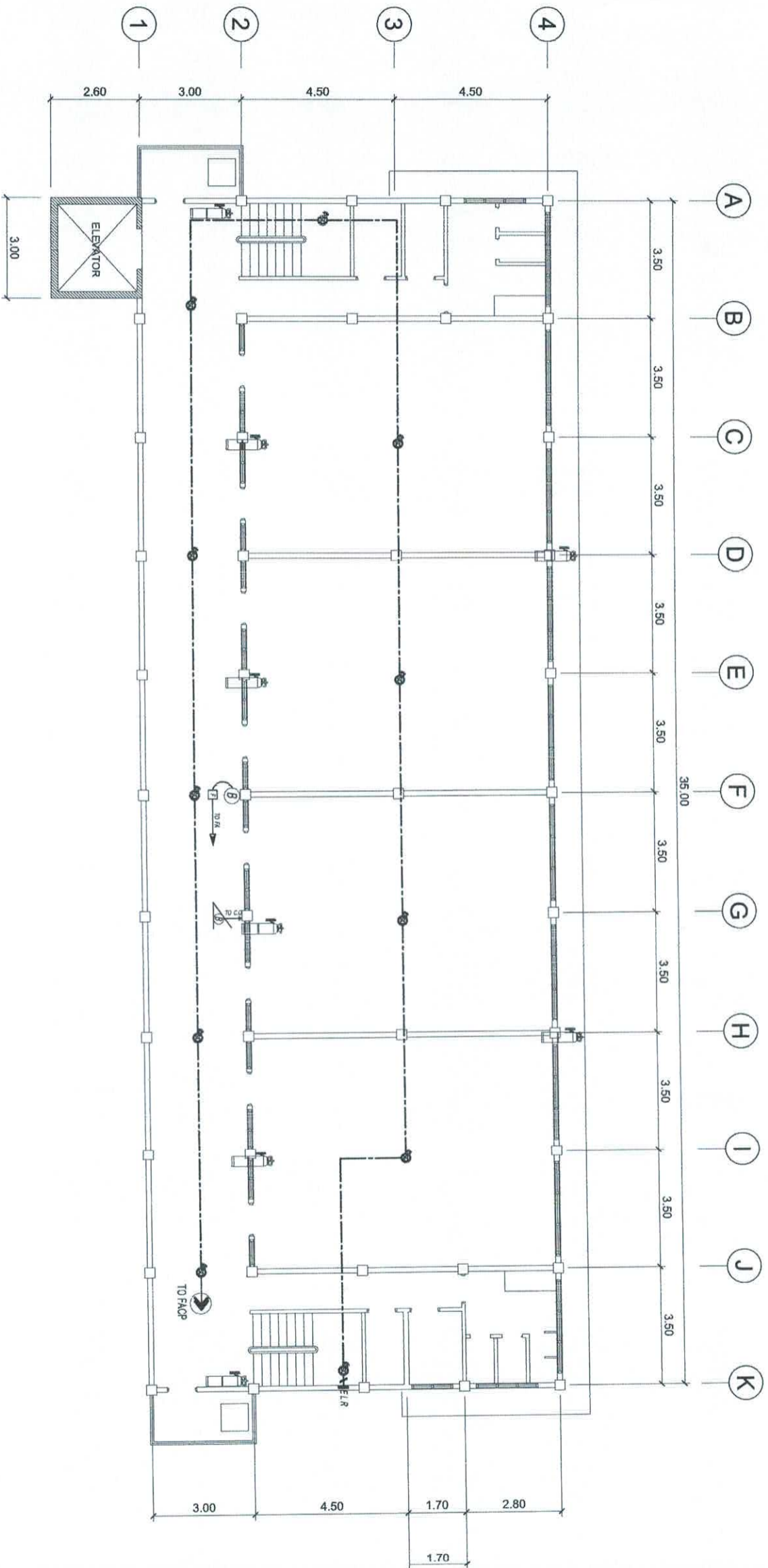
1 : 150 MTS.

 PREPARED BY: E. N. RODEROS JR. PDP / VP/PPD	END USER: A. G. B. DESINGANO DEAN / CAS	REVIEWED BY: R. P. MATHA PROF. ELEC. ENGINEER	ENDORSED BY: O. B. DELLOS REYES DIRECTOR / PLANNING AND DEVT. OFFICE	REC. APPROVAL: A. G. MAGCAYAS V/PPD / C/SU	APPROVED BY: H. D. ROBLES E/RES / C/SU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: EC - 2
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1
THIRD FLOOR FIRE DETECTION AND ALARM SYSTEM LAYOUT
SCALE 1 : 150 MTS.


 PREPARED BY: E. N. RODRIGUEZ JR. OVP/PPD	END USER: K. G. B. DESIVIRANO DEAN CAS	REVIEWED BY: R. P. DELA CRUZ PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	ENDORSED BY: O. B. DELOS REYES PLANNING AND DEVT. OFFICE	REC. APPROVAL: A. G. MAGCAYWAS CVSU	APPROVED BY: J. K. B. NERONILLO CVSU	APPROVED BY: H. D. ROBLES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY SHT NO.: EC - 3
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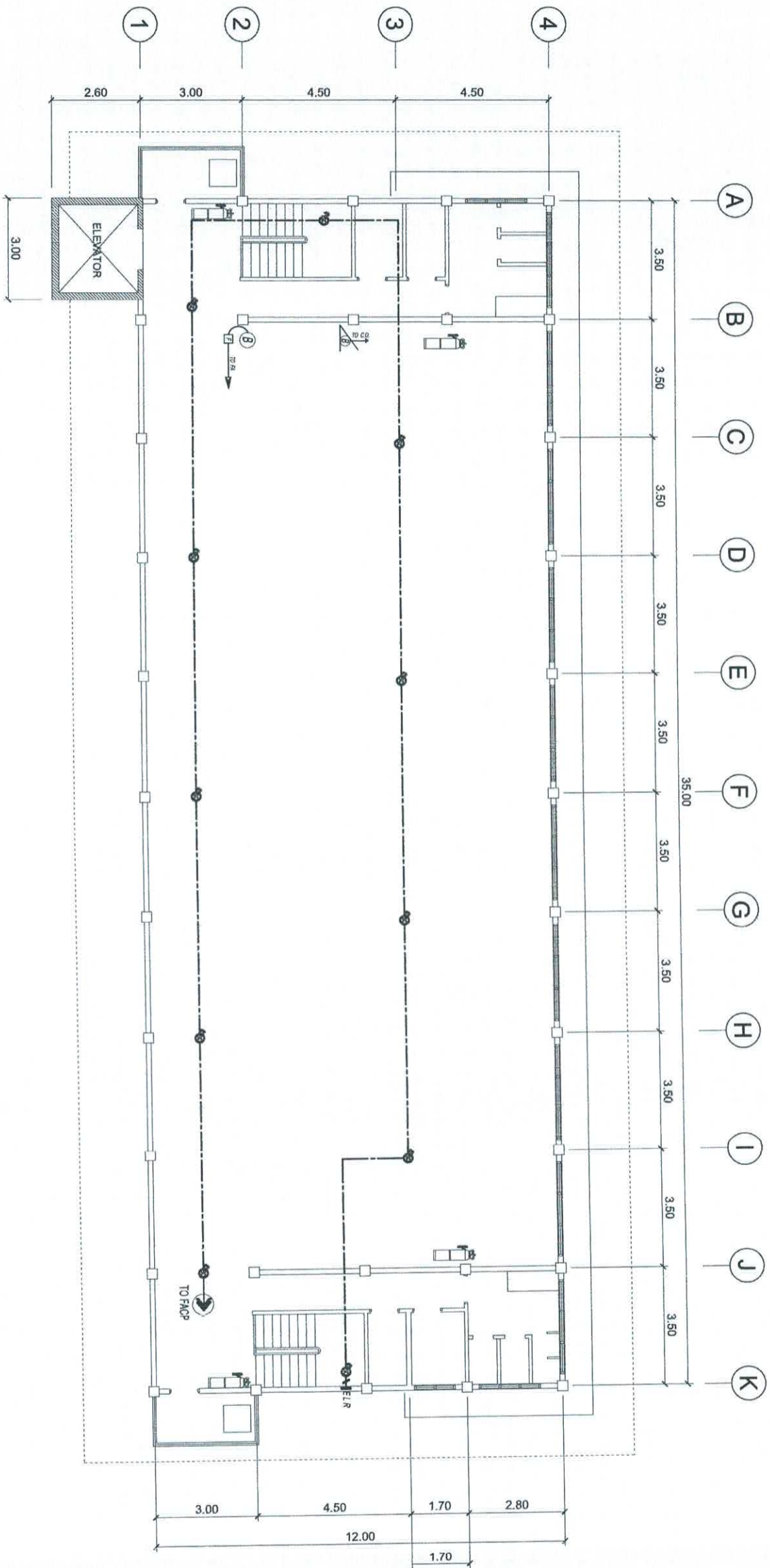


1
EC 4 SCALE

FOURTH FLOOR FIRE DETECTION AND ALARM SYSTEM LAYOUT

1 : 150 MTS.

	PREPARED BY: E. N. RODENOS JR. PDR	END USER: G. B. DESINGANO DEAN	REVIEWED BY: R. P. PENIA PROF. ELEC. ENGINEER	ENDORSED BY: S. B. BAYOT JR. HEAD	REC. APPROVAL: A. G. MAGCAYAS VFPD	APPROVED BY: M. D. ROBLES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: EC - 4
				O. B. DELOS REYES DIRECTOR PLANNING AND DEPT. OFFICE	J. X. B. NEPOMUCENO VPRESS CVSU				










1 ROOF DECK FIRE DETECTION AND ALARM SYSTEM LAYOUT

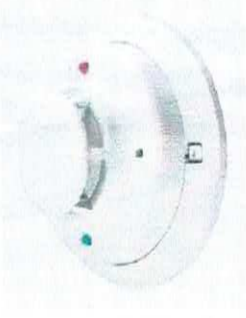
EC 5 SCALE

1 : 150 MTS.

	PREPARED BY: E. N. RODEROS JR. O/PPD	END USER: A. G. B. DESINGANO DEAN	REVIEWED BY: R. P. [Signature] PROF. ELEC. ENGINEER	HEAD: S. B. BAYOT JR. PDI	ENDORSED BY: O. B. DELLOS REYES PLANNING AND DEVT. OFFICE	REC. APPROVAL: A. G. MAGCAYAS CVSU	VPASS: J. X. B. NEPOMUCENO CVSU	APPROVED BY: H. D. ROBLES PRES CVSU	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: EC - 5
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LEGEND & SYMBOLS:

SYMBOL	DESCRIPTIONS
	SMOKE DETECTOR
	FIRE ALARM MANUAL STATION
	FIRE ALARM BELL OUTLET
	HOMERUN TO FACP
	END OF LINE RESISTOR - ELR
	FIRE ALARM CONTROL PANEL
	2-2.0mm ² THHN IN 15mm ² C



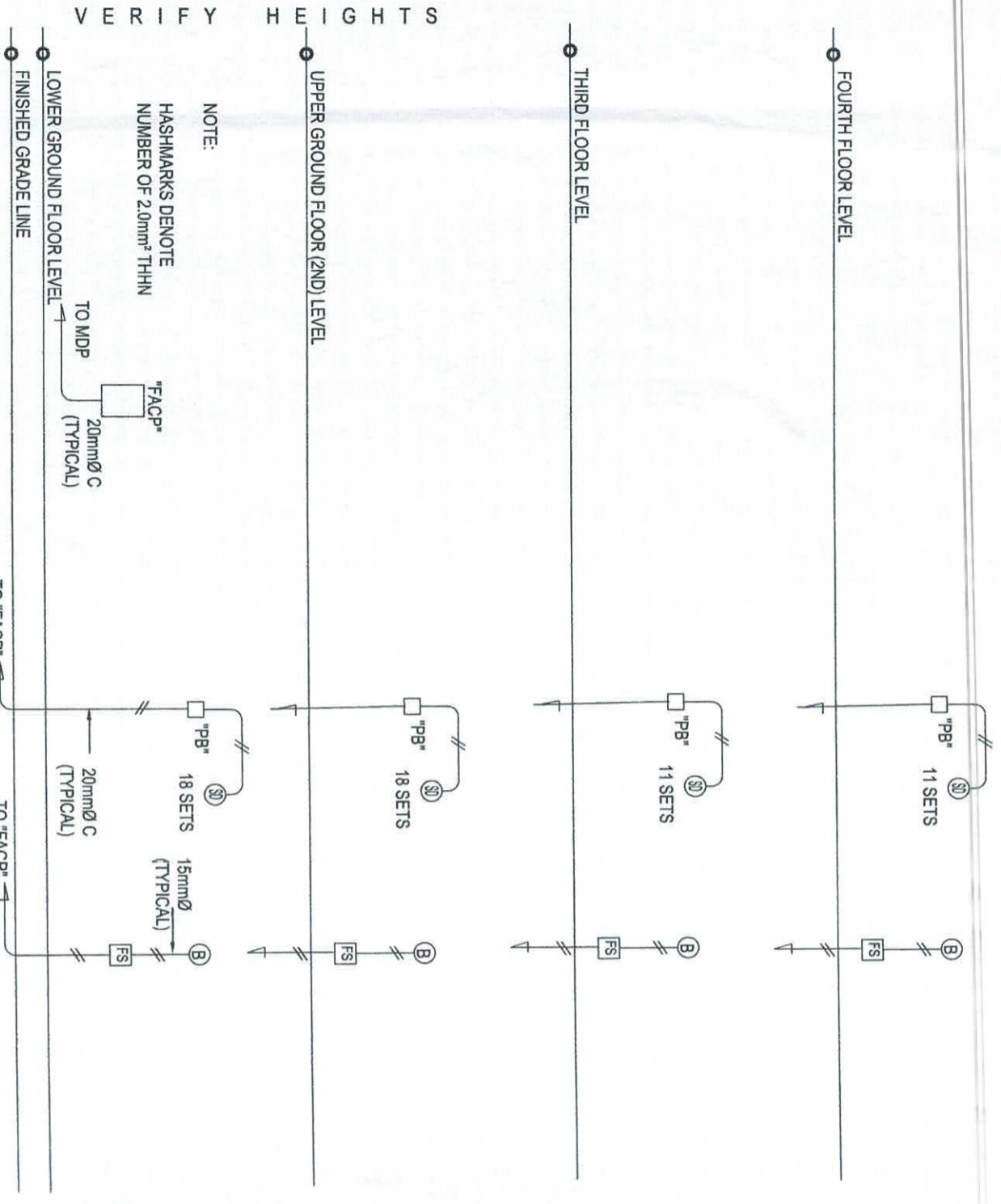
SMOKE DETECTOR
NOT TO SCALE



FIRE ALARM BELL
NOT TO SCALE



FIRE ALARM MANUAL STATION (FS)
NOT TO SCALE



FIRE ALARM SYSTEM RISER DIAGRAM (FDAS)
(SHOWING MANUAL STATIONS, BELLS AND SMOKE DETECTORS)
NOT TO SCALE

	PREPARED BY: E. N. KODEROS JR. PDU	END USER: M. G. B. DESINGANO CAS	REVIEWED BY: R. P. [Signature] PROF. ELEC. ENGINEER	ENDORSED BY: O. B. DELOS REYES DIRECTOR PLANNING AND DEV. OFFICE	REC. APPROVAL: A. G. MAGCAYAS V/PPD	APPROVED BY: J. X. B. NEPOMUCENO VP/ASS	PROJECT TITLE/LOCATION: COMPLETION OF GENERAL EDUCATION BUILDING MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT. NO.: EC - 6
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