



REPUBLIC OF THE PHILIPPINES
BICOL UNIVERSITY
OFFICE OF THE VICE PRESIDENT FOR PLANNING AND DEVELOPMENT
PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE
LEGAZPI CITY, ALBAY

CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY

LOCATION: BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY, ALBAY 4500

PREPARED BY:


AR. ADRIAN J. GRAGEDA
HEAD, PLANNING AND DESIGN SECTION

RECOMMENDING APPROVAL:


ENGR. ALVIN B. LUZONG
DIRECTOR PCMO

RECOMMENDING APPROVAL:

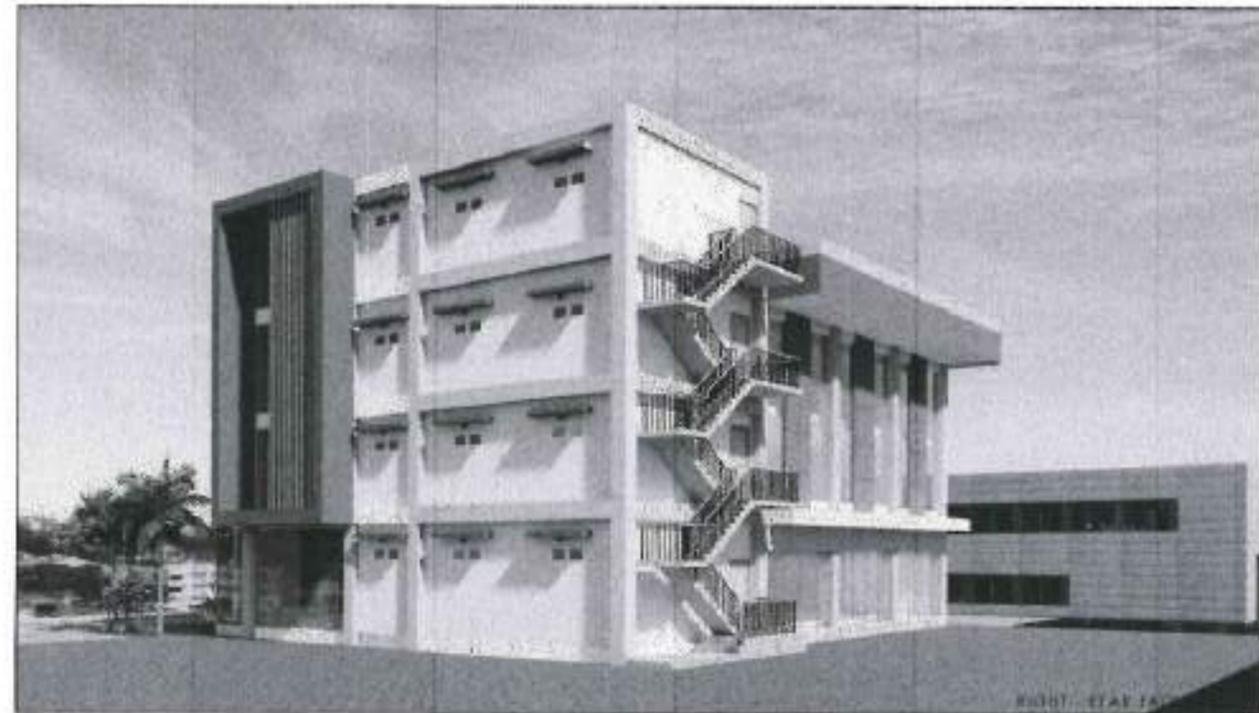

ATTY. ALEX S. NEPOMUCENO
DEAN, COLLEGE OF SOCIAL SCIENCES AND PHILOSOPHY

RECOMMENDING APPROVAL:

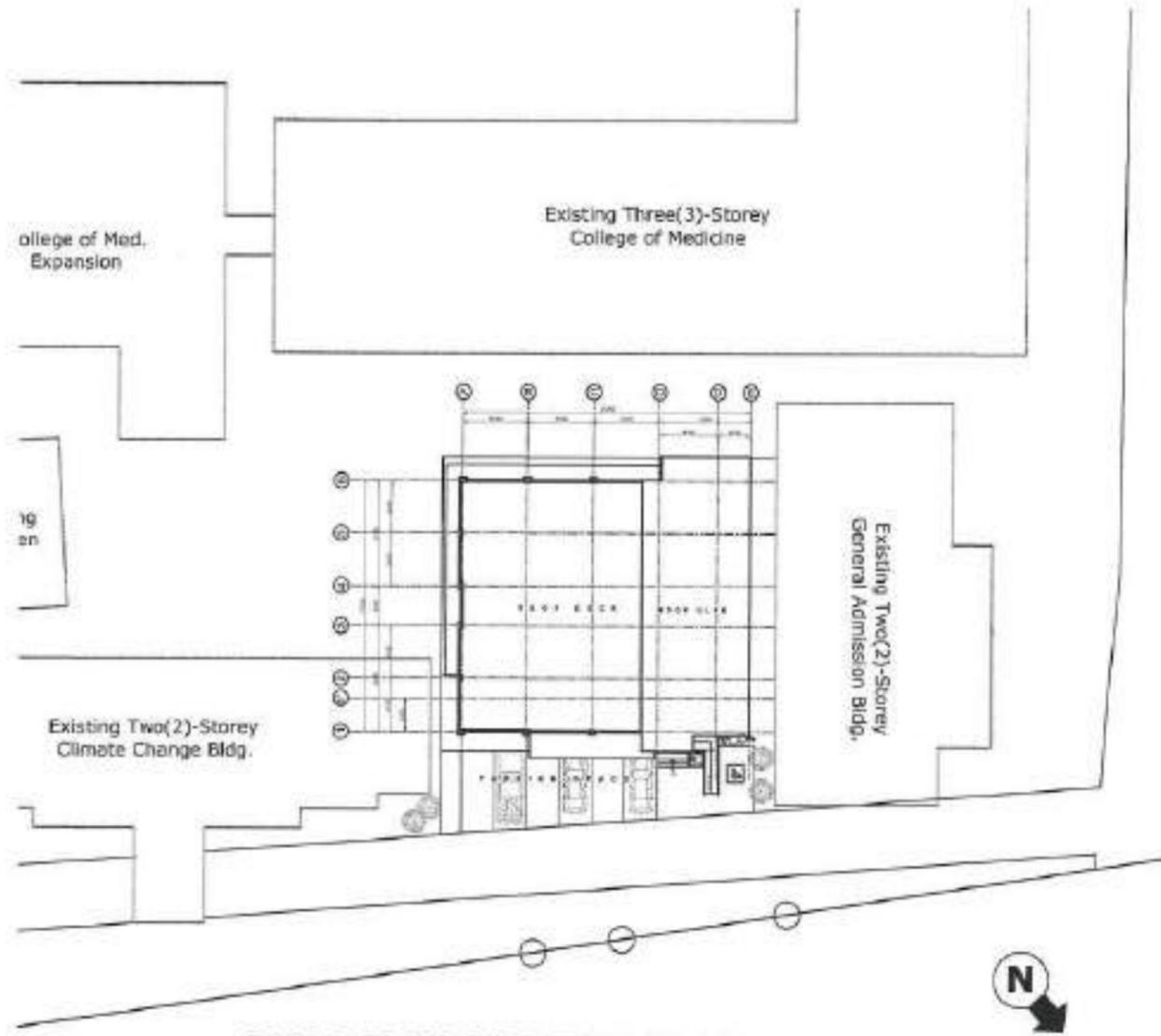

PROF. SONNIE A. RAMOS, CPA, MBA
VICE PRESIDENT FOR PLANNING & DEVELOPMENT

APPROVED BY:


DR. BABY BOY BENJAMIN D. NEBRES III
BICOL UNIVERSITY PRESIDENT

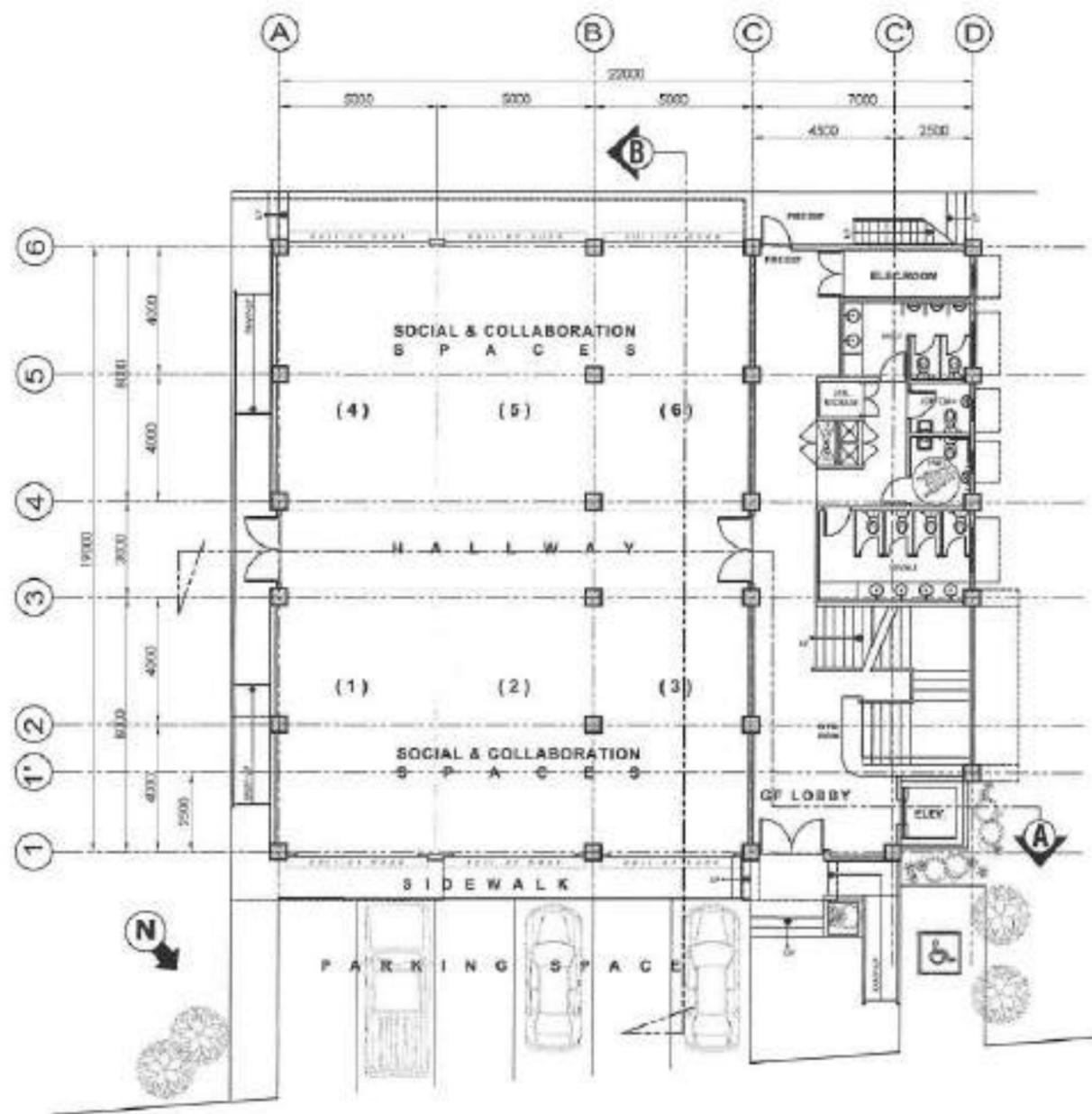


PERSPECTIVE
SCALE N10



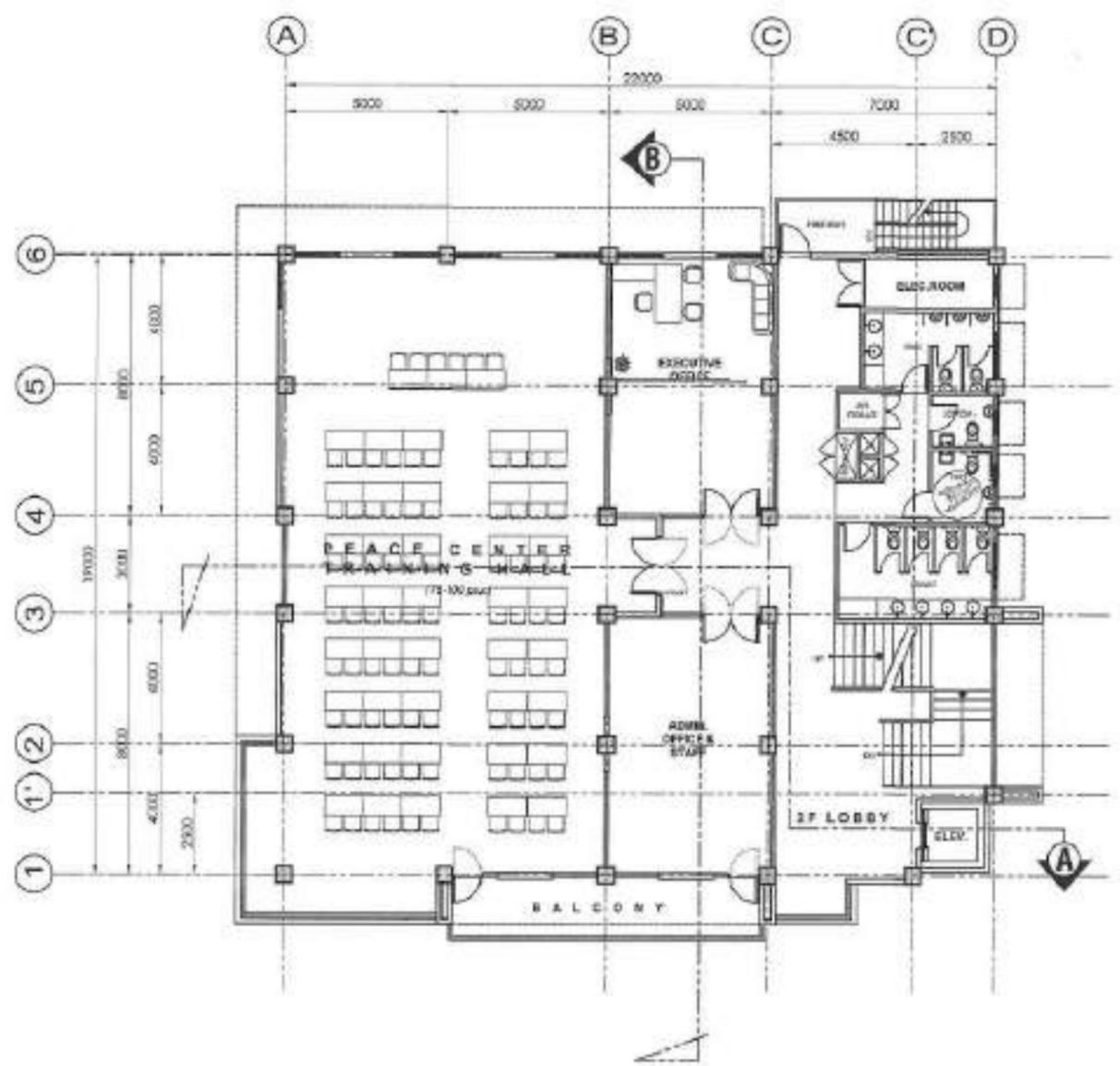
SITE DEVELOPMENT PLAN
SCALE 1:500 N15

<p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY TEL. NO. (052) 859-4004</p>	DESIGNED BY: AR. ADRIAN J. CRAGEDA HEAD, PHYSICAL DEVELOPMENT	PROJECT NO.: PROJECT NAME: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY	REVISION DATE SHEET CONTENTS APPROVAL DATE:	CHECKED BY: ENGR. KEVIN B. LUZONG DIVISION:	RECOMMENDING APPROVAL: ATY. ALDO E. BERNARDINO DIVISION:	RECOMMENDING APPROVAL: PROF. SONNIE A. RAMOS, CPA, MBA DIVISION:	APPROVED BY: DR. BABY BOY BENJAMIN D. ABRERES III BICOL UNIVERSITY PRESIDENT	SHEET NO.: A 3 3 14 51
	LOCATION: BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY			DATE:	DATE:	DATE:	DATE:	DATE:



GROUND FLOOR PLAN

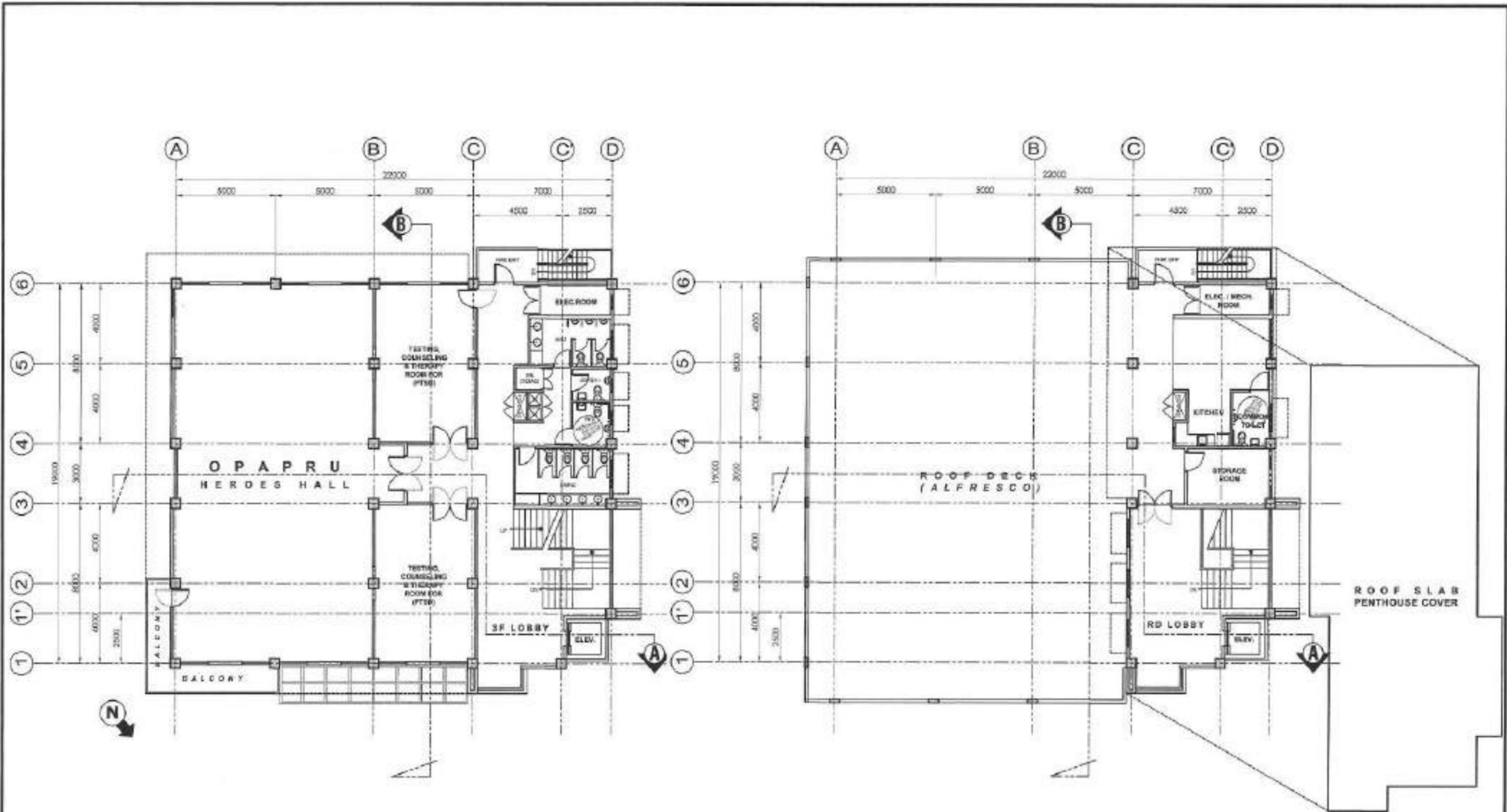
SCALE 1:200 MTS.



SECOND FLOOR PLAN

SCALE 1:200 MTS.

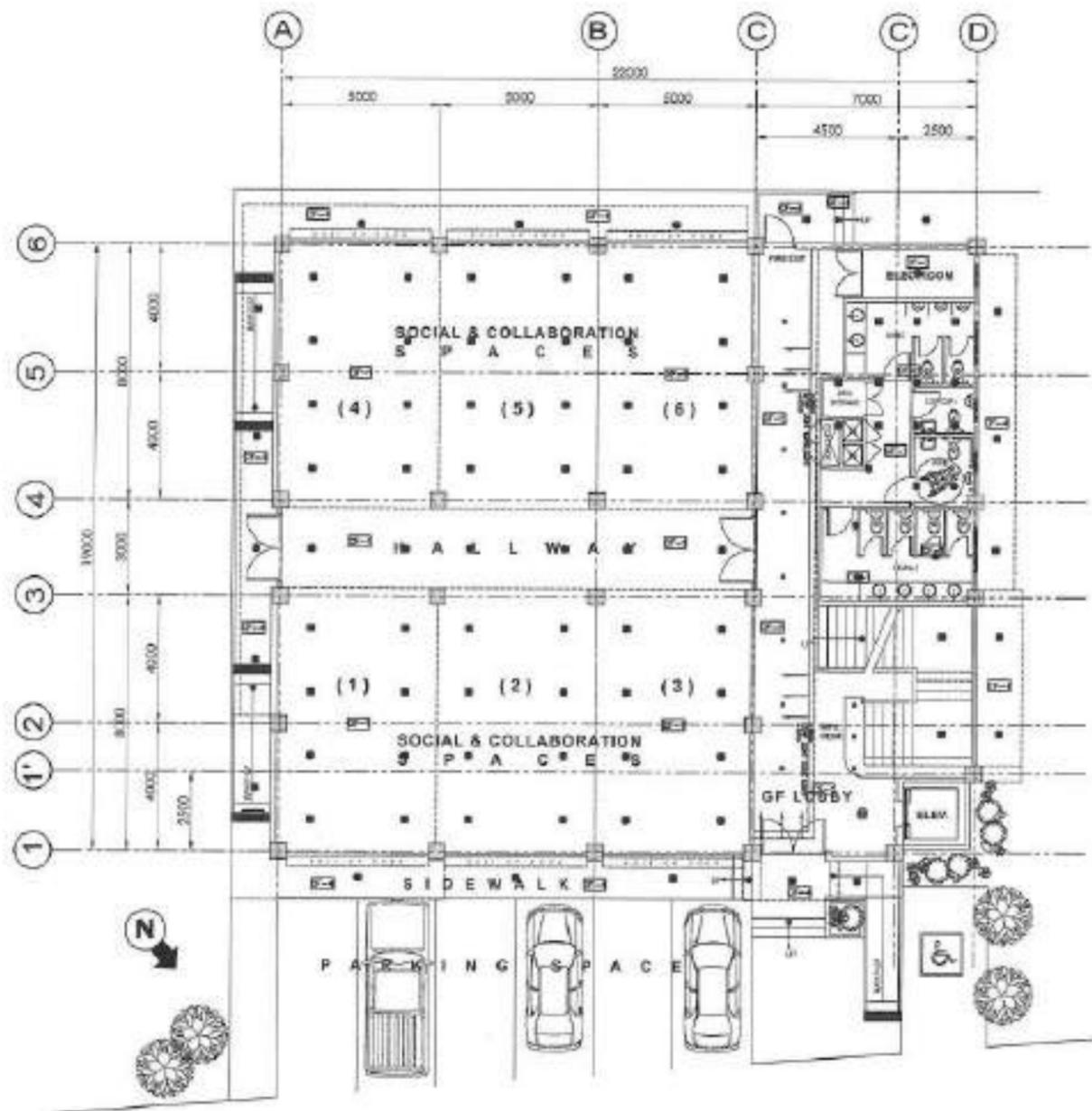
 <p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI PIKE, LEGAZPI CITY TEL. NO. (052) 805-004</p>	DESIGNED BY:  AR ADRIAN GRAGEDA HEAD PLANNING AND DESIGN SECTION	PROJ. NO. A/D/HC PROJ. NO. DATE RUC BY	PROJECT TITLE CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY	REVISION DATE SHEET COUNTING AS SHOWN	CAD DESIGNED CHECKED DATE	RECOMMENDING APPROVAL:  ENGR. ALVIN B. LUZONG DIRECTOR PCMO	RECOMMENDING APPROVAL:  ATTY. ALVIN B. LUZONG CLAY, DOLDO, DOLDO, DOLDO AND PARTNERS	RECOMMENDING APPROVAL:  PROF. SONMIE A. RAMOS, CPA, MBA VICE PRESIDENT FOR PLANNING & DEVELOPMENT	APPROVED BY:  DR. BABY BOY BENJAMIN D. NIEVES III BICOL UNIVERSITY PRESIDENT	SHEET NO. <div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> A 4 14 51 </div>
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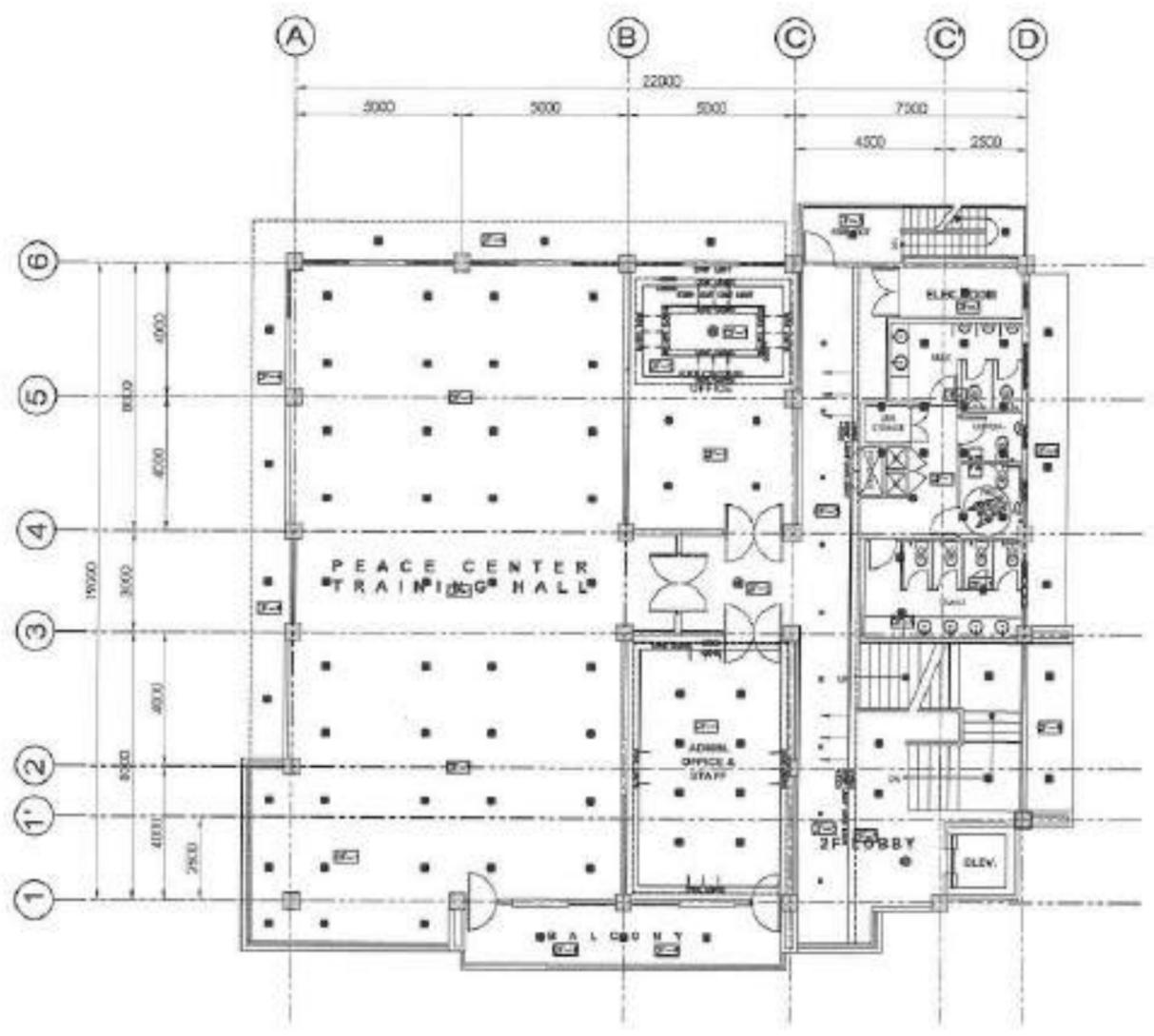
THIRD FLOOR PLAN
SCALE 1:200 MTS.

ROOF DECK PLAN
SCALE 1:200 MTS.

<p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI HIGHT, LEGAZPI CITY TEL. NO. (054) 838-1004</p>	PREPARED BY: AR. ADRIAN J. GLAGEDA HEAD, PLANNING AND DESIGN SECTION	CHECKED BY: APPROVED BY: DATE: PRICE: SHEET NO.	PROJECT TITLE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY	PROJECT NO.: SITE: SHEET NO.: TOTAL SHEETS:	DATE: DRAWN BY: CHECKED BY: DATE:	DESIGNING ARCHITECT: ENGR. ARVIN B. LUZONG DIRECTOR	RECORDING ARCHITECT: ATTY. ALVIN B. DELACRUZ SBA, COLLEGE OF SOCIAL SCIENCE AND BUSINESS	RECORDING ARCHITECT: PROF. SONNIE A. RAMOS, CPA, MBA HEAD OFFICE FOR PLANNING & DEVELOPMENT	PROJECT IT: DR. BABY BOY BENJAMIN D. HERBES II BICOL UNIVERSITY PRESIDENT	SHEET NO.: <div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> A 5 5 14 51 </div>
	LOCATION: BICOL UNIVERSITY LEGAZPI HIGHT, LEGAZPI CITY									



**GROUND FLOOR
REFLECTED CEILING PLAN**
SCALE 1:200 MTS.

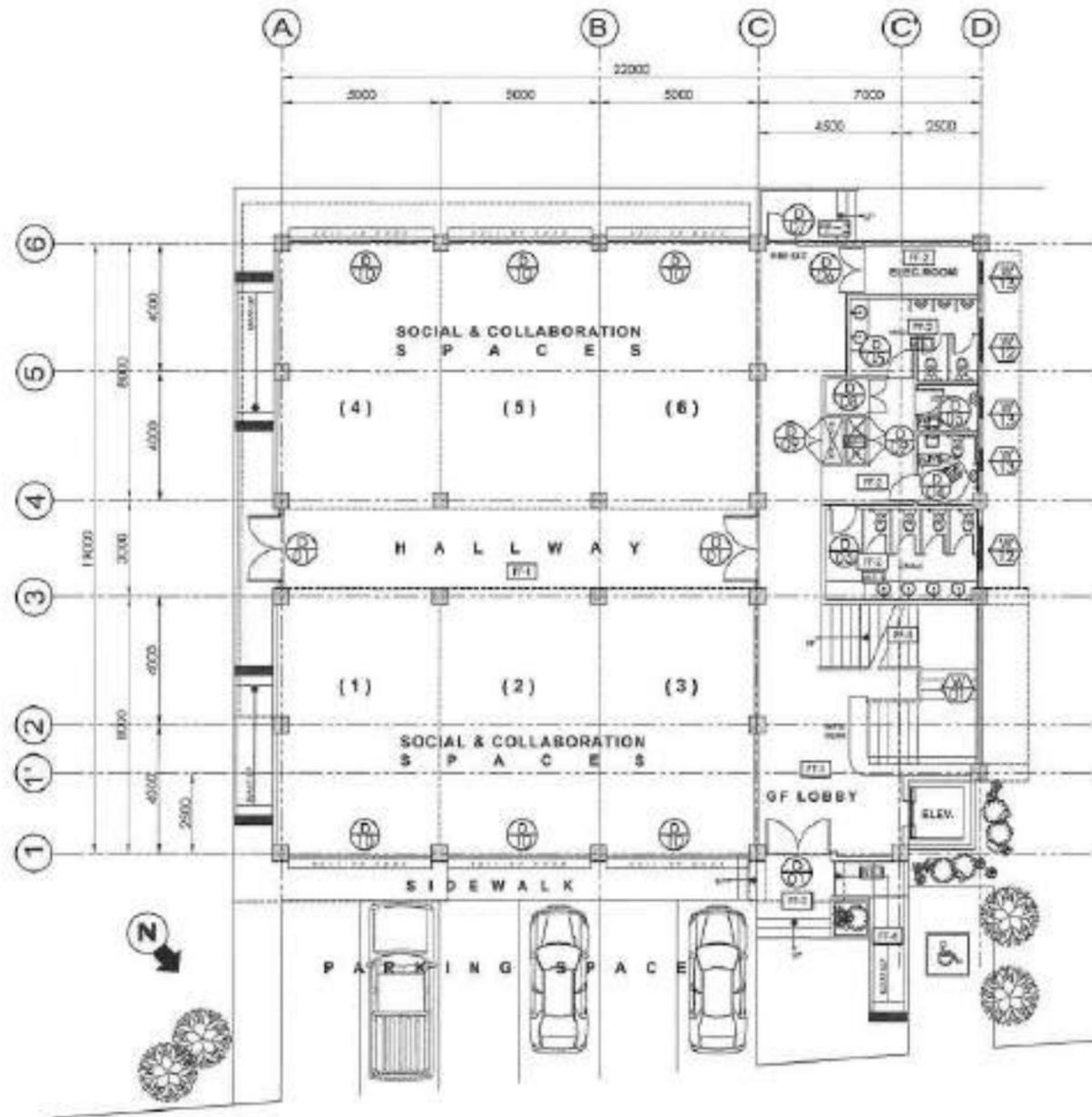


**SECOND FLOOR
REFLECTED CEILING PLAN**
SCALE 1:200 MTS.

LEGEND:

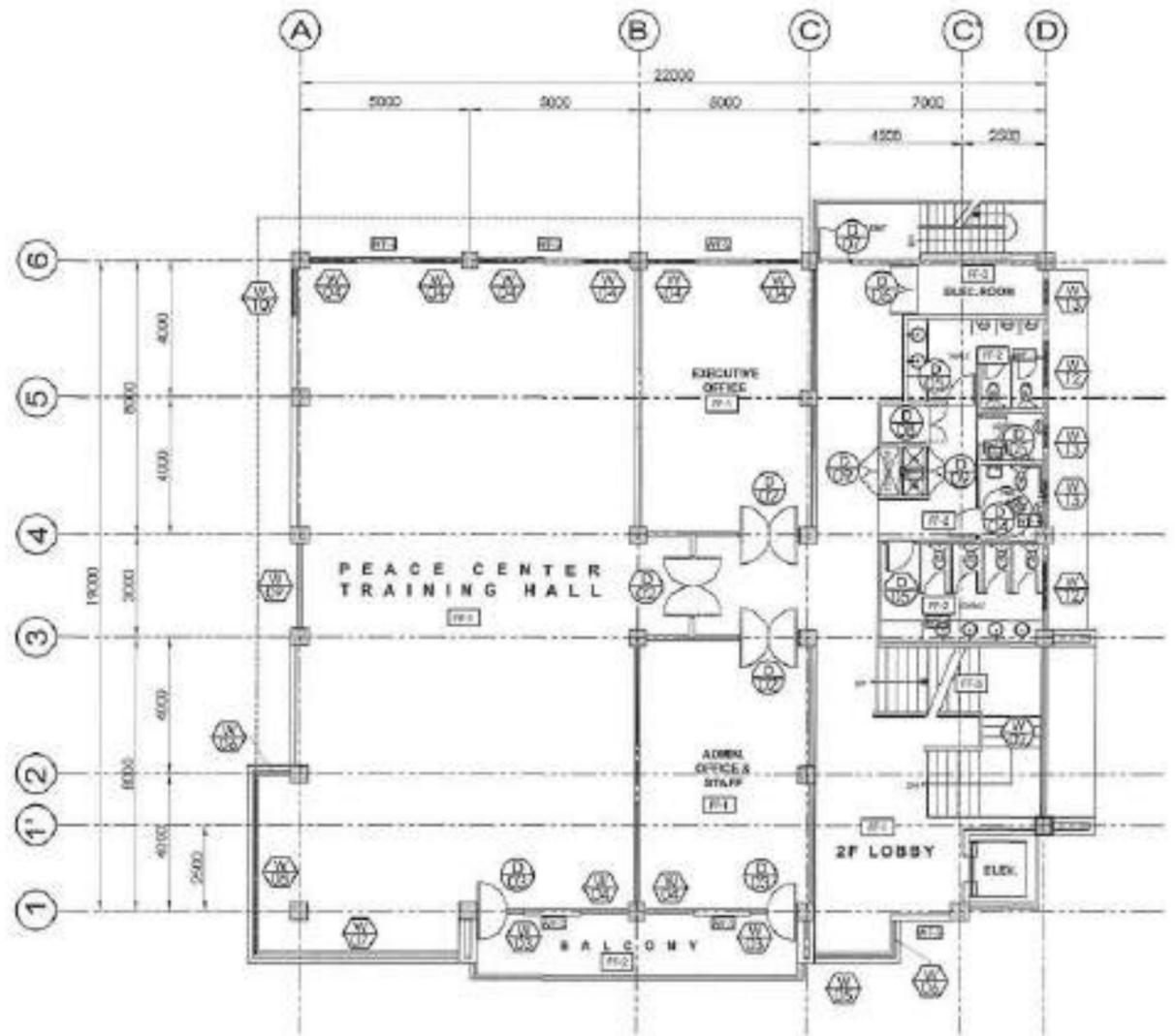
	2.0m x 2.0m GRID
	2.0m x 2.0m GRID WITH CEILING HEIGHT
	2.0m x 2.0m GRID WITH CEILING HEIGHT AND LIGHTING FIXTURE
	2.0m x 2.0m GRID WITH CEILING HEIGHT AND LIGHTING FIXTURE AND CEILING PANEL
	2.0m x 2.0m GRID WITH CEILING HEIGHT AND LIGHTING FIXTURE AND CEILING PANEL AND CEILING PANEL TYPE
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<p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY CAMPUS WEST, LEGAZPI CITY TEL. NO. 3382 8504/234</p>	<p>DESIGNED BY MR. ADRIAN J. GRAGIDA</p>	<p>PROJECT TITLE CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY</p>	<p>REVISION</p>	<p>DATE</p>	<p>SHEET CONTENTS</p>	<p>DATE</p>	<p>REVISIONS AND APPROVALS</p>	<p>REVISIONS AND APPROVALS</p>	<p>REVISIONS AND APPROVALS</p>	<p>PROJECT COORDINATOR</p>	<p>SHEET NO.</p>
	<p>HEAD ARCHITECT AND DESIGNER</p>	<p>LOCATION: BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY</p>	<p>AS SHOWN</p>	<p>DESIGNED BY ENGR. ALVIN B. LUZONG</p>	<p>CHECKED BY MR. ALVIN B. LUZONG</p>	<p>DATE 08/20/24</p>	<p>APPROVED BY ENGR. ALVIN B. LUZONG</p>	<p>APPROVED BY MR. ALVIN B. LUZONG</p>	<p>APPROVED BY PROF. SONNIE A. RAMOS, CPA, MBA</p>	<p>APPROVED BY DR. BABY BOY BENJAMIN D. NARES III</p>	<p>BICOL UNIVERSITY PROJECT</p>



**GROUND FLOOR
SCHEDULE OF DOORS,
WINDOWS & FINISHES**

SCALE 1:200 MTS.



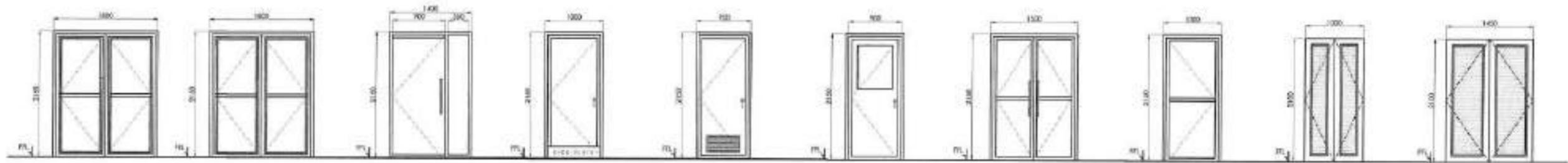
**SECOND FLOOR
SCHEDULE OF DOORS,
WINDOWS & FINISHES**

SCALE 1:200 MTS.

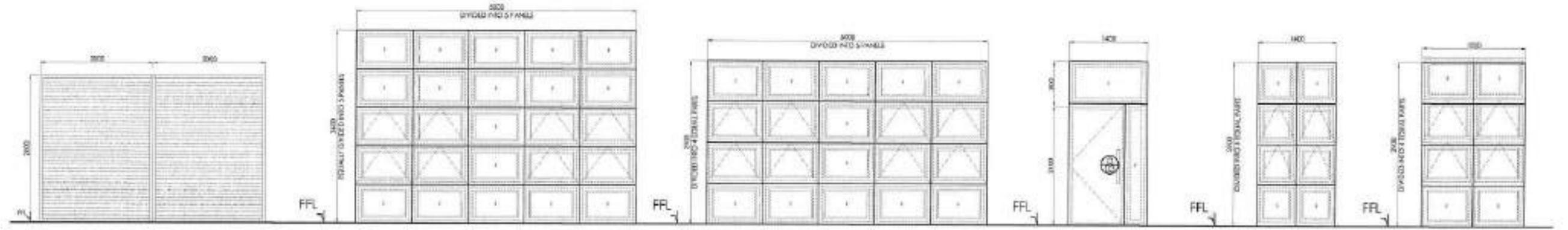
LEGEND:

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DOOR (F05)	WINDOW (F05)
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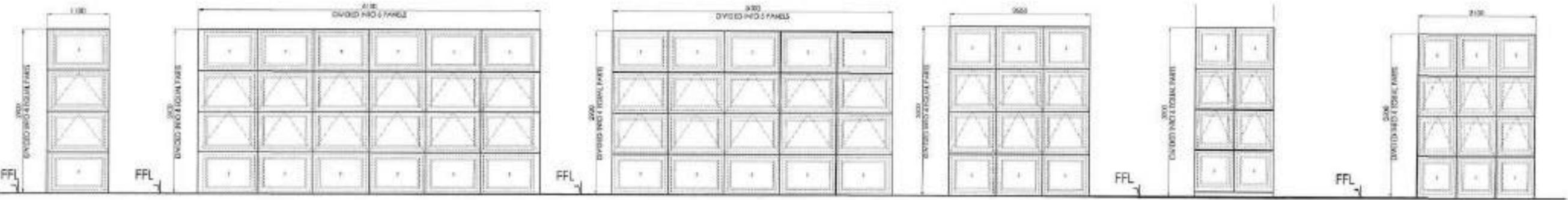
<p>SICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE SICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY TEL. NO. (093) 890-4094</p>	PREPARED BY: AR. ADRIAN J. GRAGEDA HEAD OF ARCHITECTURE DIVISION	PROJ. NO.: ARCH. NO.: PRJ. NO.: DATE: TITLE: BY:	PROJECT TITLE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY	REVISION: DATE: DRAWN BY: CHECKED BY: DATE:	ASSIGNED TO: ENGINEER: ENGR. ALVIN B. LUZONG ARCHITECT: MR. ALDO A. REYNOLDO	REVIEWING APPROVAL: PROF. SONNIE A. RAMOS, CPA, MAA REVIEWING APPROVAL: DR. BABY BOY BENJAMIN D. REYES III	APPROVED BY: DR. BABY BOY BENJAMIN D. REYES III SICOL UNIVERSITY PRESIDENT	SHEET NO.:
	LOCATION: SICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY				DATE:	REVIEWING APPROVAL: ENGR. ALVIN B. LUZONG REVIEWING APPROVAL: MR. ALDO A. REYNOLDO REVIEWING APPROVAL: PROF. SONNIE A. RAMOS, CPA, MAA REVIEWING APPROVAL: DR. BABY BOY BENJAMIN D. REYES III	APPROVED BY: DR. BABY BOY BENJAMIN D. REYES III SICOL UNIVERSITY PRESIDENT	SHEET NO.:



<p>TYPE: WINDOW MATERIAL: ALUMINUM FINISH: ANODIZED GLASS: CLEAR DIVISION: ARCHITECTURE</p>	<p>TYPE: WINDOW MATERIAL: ALUMINUM FINISH: ANODIZED GLASS: CLEAR DIVISION: ARCHITECTURE</p>	<p>TYPE: WINDOW MATERIAL: ALUMINUM FINISH: ANODIZED GLASS: CLEAR DIVISION: ARCHITECTURE</p>	<p>TYPE: WINDOW MATERIAL: ALUMINUM FINISH: ANODIZED GLASS: CLEAR DIVISION: ARCHITECTURE</p>	<p>TYPE: WINDOW MATERIAL: ALUMINUM FINISH: ANODIZED GLASS: CLEAR DIVISION: ARCHITECTURE</p>	<p>TYPE: WINDOW MATERIAL: ALUMINUM FINISH: ANODIZED GLASS: CLEAR DIVISION: ARCHITECTURE</p>	<p>TYPE: WINDOW MATERIAL: ALUMINUM FINISH: ANODIZED GLASS: CLEAR DIVISION: ARCHITECTURE</p>	<p>TYPE: WINDOW MATERIAL: ALUMINUM FINISH: ANODIZED GLASS: CLEAR DIVISION: ARCHITECTURE</p>	<p>TYPE: WINDOW MATERIAL: ALUMINUM FINISH: ANODIZED GLASS: CLEAR DIVISION: ARCHITECTURE</p>	<p>TYPE: WINDOW MATERIAL: ALUMINUM FINISH: ANODIZED GLASS: CLEAR DIVISION: ARCHITECTURE</p>
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<p>TYPE: WINDOW MATERIAL: ALUMINUM FINISH: ANODIZED GLASS: CLEAR DIVISION: ARCHITECTURE</p>	<p>TYPE: WINDOW MATERIAL: ALUMINUM FINISH: ANODIZED GLASS: CLEAR DIVISION: ARCHITECTURE</p>	<p>TYPE: WINDOW MATERIAL: ALUMINUM FINISH: ANODIZED GLASS: CLEAR DIVISION: ARCHITECTURE</p>	<p>TYPE: WINDOW MATERIAL: ALUMINUM FINISH: ANODIZED GLASS: CLEAR DIVISION: ARCHITECTURE</p>	<p>TYPE: WINDOW MATERIAL: ALUMINUM FINISH: ANODIZED GLASS: CLEAR DIVISION: ARCHITECTURE</p>
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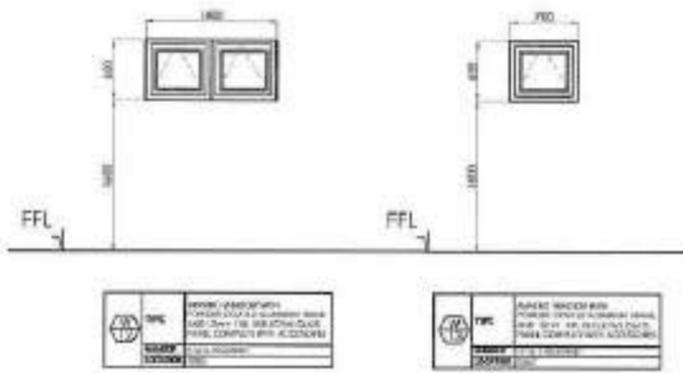


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SCHEDULE OF DOORS & WINDOWS

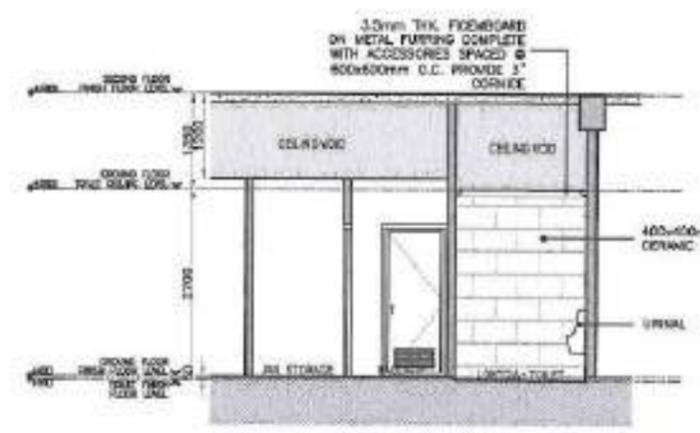
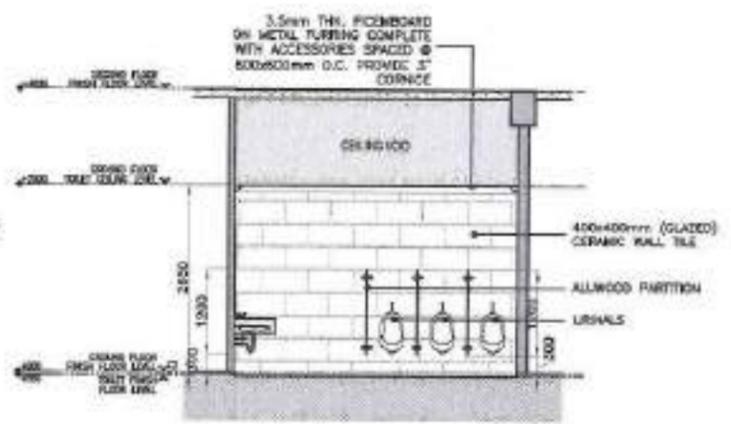
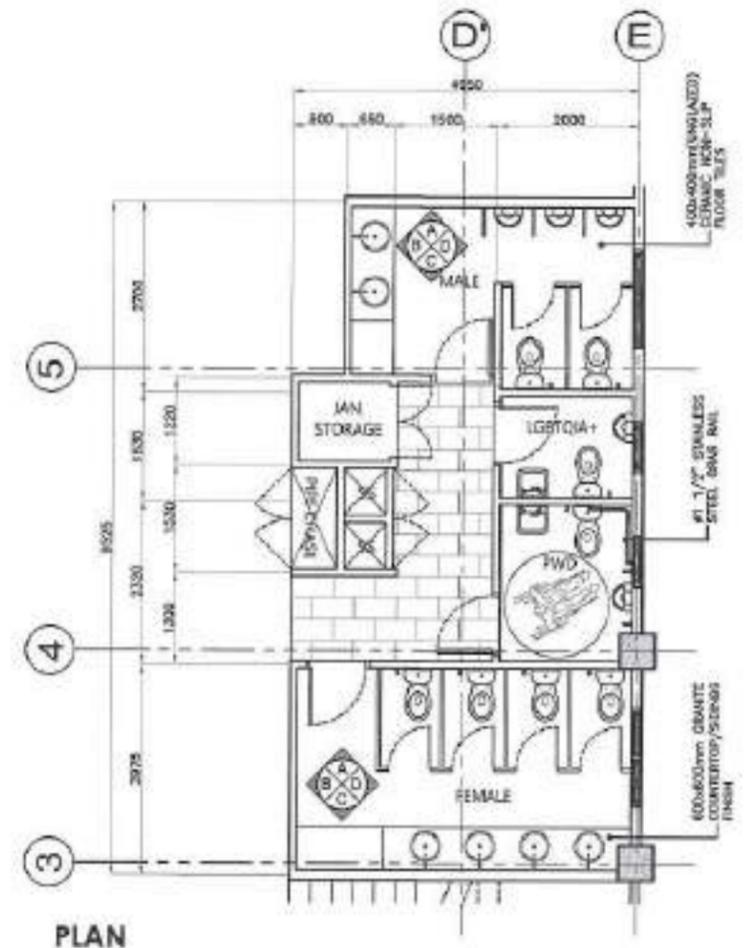
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	BCOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BCOL UNIVERSITY LEGAZPI WALK, LEGAZPI CITY TEL. NO. 052 80-624	PROVIDED BY: AL. ADRIAN J. GRAGEDA HEAD, PLANNING AND DESIGN DIVISION	PROJECT TITLE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY	LOCATION: BCOL UNIVERSITY LEGAZPI WALK, LEGAZPI CITY	REVISION:	DATE:	SHEET CONTENTS:	SHEET NO.: AS SHOWN	DESIGNER: ENGR. ALVIN B. LIZONG	CHECKER: ATY. ALEA E. MEDINA-CRIB	DATE:	DRAWN BY: P. O. A. O.	DATE:	CHECKED BY: PROF. SONNIE A. RAMOS, CPA, MBA	DATE:	APPROVED BY: DR. BABY BOY BENJAMIN D. NERES II BCOL UNIVERSITY PRESIDENT	SHEET NO.: A 11 OF 14 51
	BCOL UNIVERSITY LEGAZPI WALK, LEGAZPI CITY																



SCHEDULE OF WINDOWS

SCALE 1:25 MTS.



TOILET BLOW-UP PLAN & ELEVATIONS

SCALE 1:100 MTS.



**BICOL UNIVERSITY
PHYSICAL DEVELOPMENT
AND MANAGEMENT OFFICE**
BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY
TEL. NO. (052) 820-1254

PREPARED BY:
MR. ADRIAN J. GRAGEDA
HEAD PLANNING AND DESIGN DIVISION

PROJECT TITLE:
**CONSTRUCTION OF REGIONAL PEACE AND
DEVELOPMENT CENTER, LEGAZPI CITY**

LOCATION: BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY

REVISIONS:

NO.	DATE	REVISIONS
1	10-9-2018	ISSUED
2		REVISED
3		REVISED

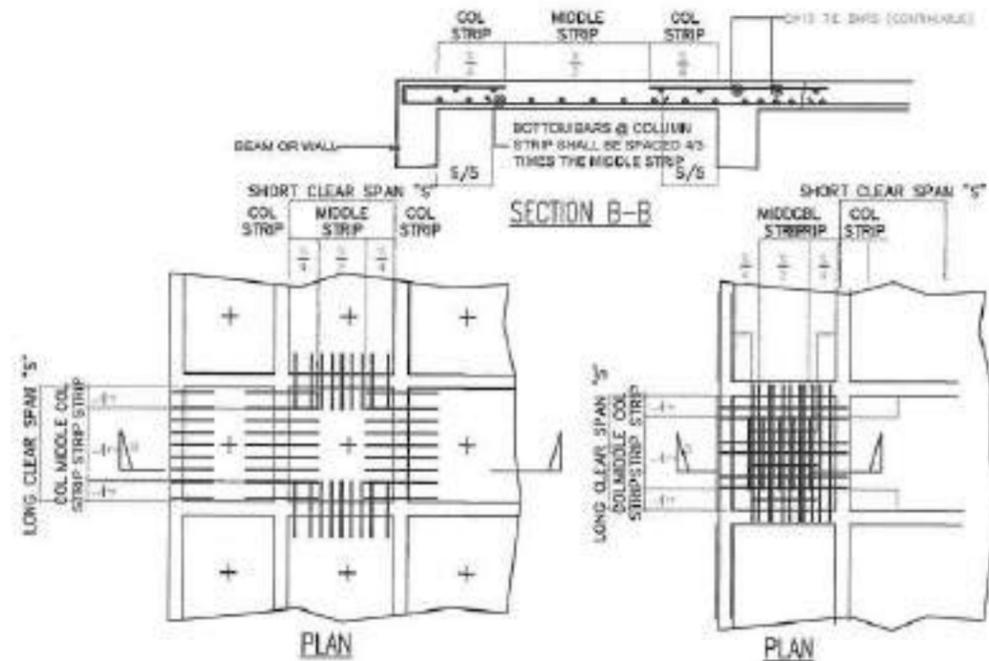
DESIGNER: **ENGR. ALVIN B. LUZONG**
FUND: [Signature]

DESIGNING APPROVAL: **MR. ALBERT R. BINGSONO**
SMA CHAIRMAN (CONSTRUCTION MANAGEMENT)

DESIGNING APPROVAL: **PROF. SONNIE A. RAMOS, CPA, MBA**
VCL PRESIDENT (PLANNING & DEVELOPMENT)

APPROVED BY: **DR. BABY BOY BENJAMIN D. NERES III**
BICOL UNIVERSITY PRESIDENT

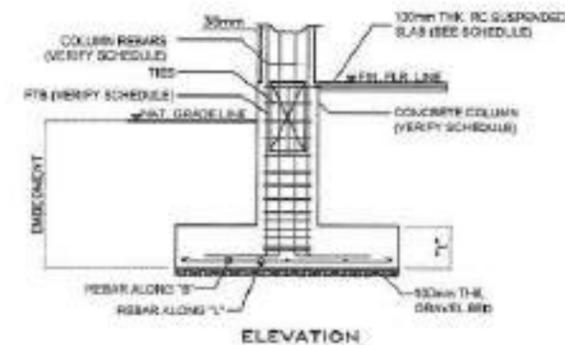
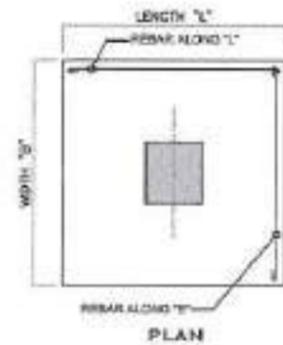
DATE: 12/14/18



TYP. FRAMING PLAN OF TWO-WAY SLAB SHOWING TOP BAR REINFORCEMENT

TYP. FRAMING PLAN OF TWO-WAY SLAB SHOWING BOTTOM BAR REINFORCEMENT

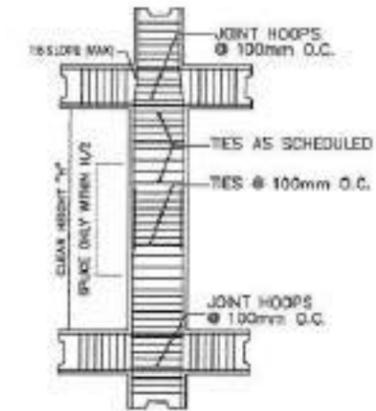
2 TYPICAL TWO-WAY SLAB DETAILS
S-5 SCALE NTS



3 TYPICAL FOOTING DETAIL
S-5 SCALE NTS

SCHEDULE OF FOOTINGS

DESIGNATION	DIMENSIONS			EMBEDMENT	REBAR // TO	REBAR // TO	REMARKS
	B (mm)	L (mm)	t (mm)				
F1	3400	3400	500	2.0 m	23-20mm ϕ	23-20mm ϕ	SPREAD FOOTING
F2	3800	3800	500	2.0 m	29-20mm ϕ	29-20mm ϕ	SPREAD FOOTING
F3	2900	4500	500	2.0 m	29-20mm ϕ	25-20mm ϕ	SPREAD FOOTING
F4	2400	4300	500	2.0 m	28-20mm ϕ	19-20mm ϕ	SPREAD FOOTING

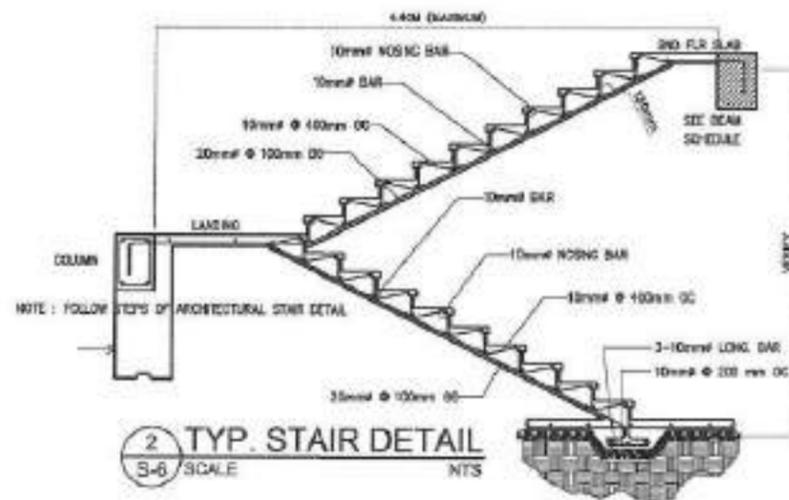


4 TYP. COLUMN DETAIL
S-5 SCALE NTS

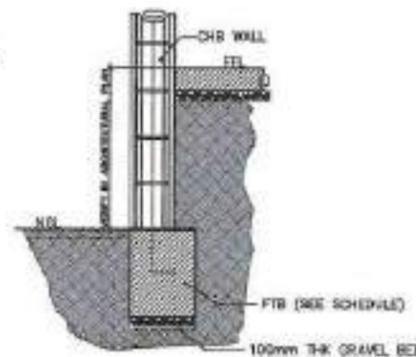
SCHEDULE OF SUSPENDED SLAB

DESIGNATION	SPAN	RISER (mm)	REINFORCEMENT	REBAR @ SUPPORT ALONG SHORT SIDE		REBAR @ SUPPORT ALONG LONG SIDE		REBAR AT JOINTS		REMARKS
				TOP	BOTTOM	TOP	BOTTOM	ALONG SHORT SIDE	ALONG LONG SIDE	
S2	1	125	FREE-END CONT-END	10mm ϕ @ 150 10mm ϕ @ 300	10mm ϕ @ 300 10mm ϕ @ 300	10mm ϕ @ 150 10mm ϕ @ 300	10mm ϕ @ 300 10mm ϕ @ 300	10mm ϕ @ 150 10mm ϕ @ 150	1 - N A Y	

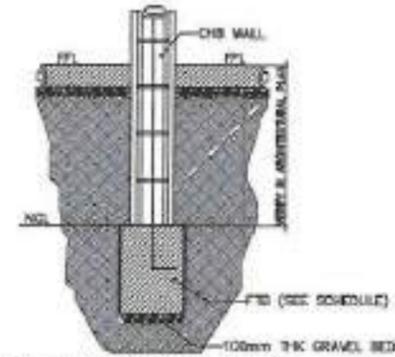
NOTE: FOR SLAB-ON-GRADE, USE 10mm ϕ TEMP. BARS @ 100mm O.C. BOTHWAYS AND 100mm THK GRAVEL BED



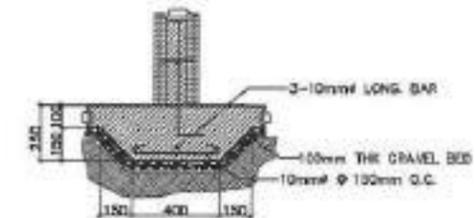
2 TYP. STAIR DETAIL
S-6 SCALE NTS



5 TYP. DET. OF EXT. CHB
S-5 SCALE NTS



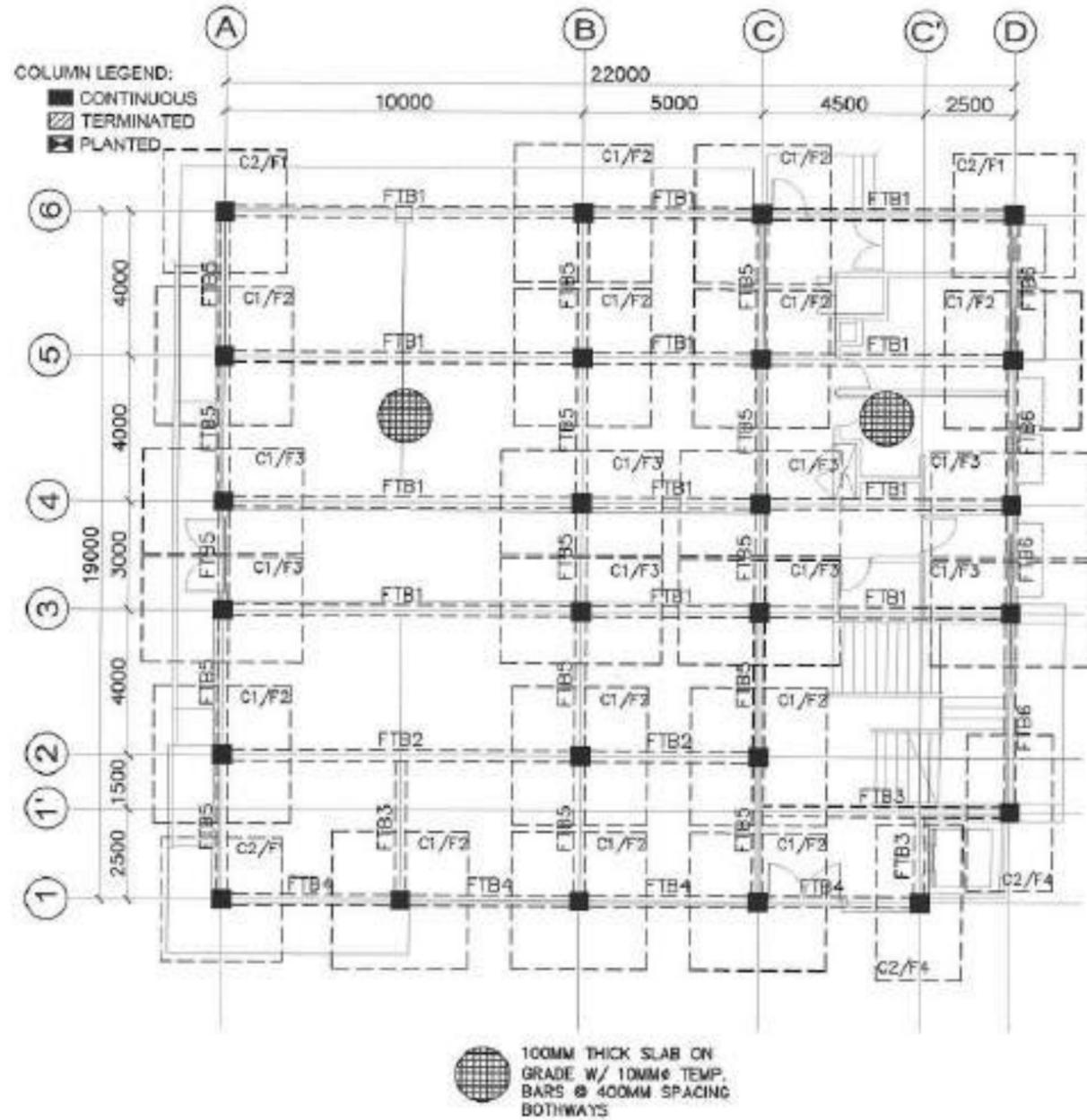
6 TYP. DET. OF INT. CHB
S-5 SCALE NTS



7 TYP. DET. OF INT. CHB
S-5 SCALE NTS

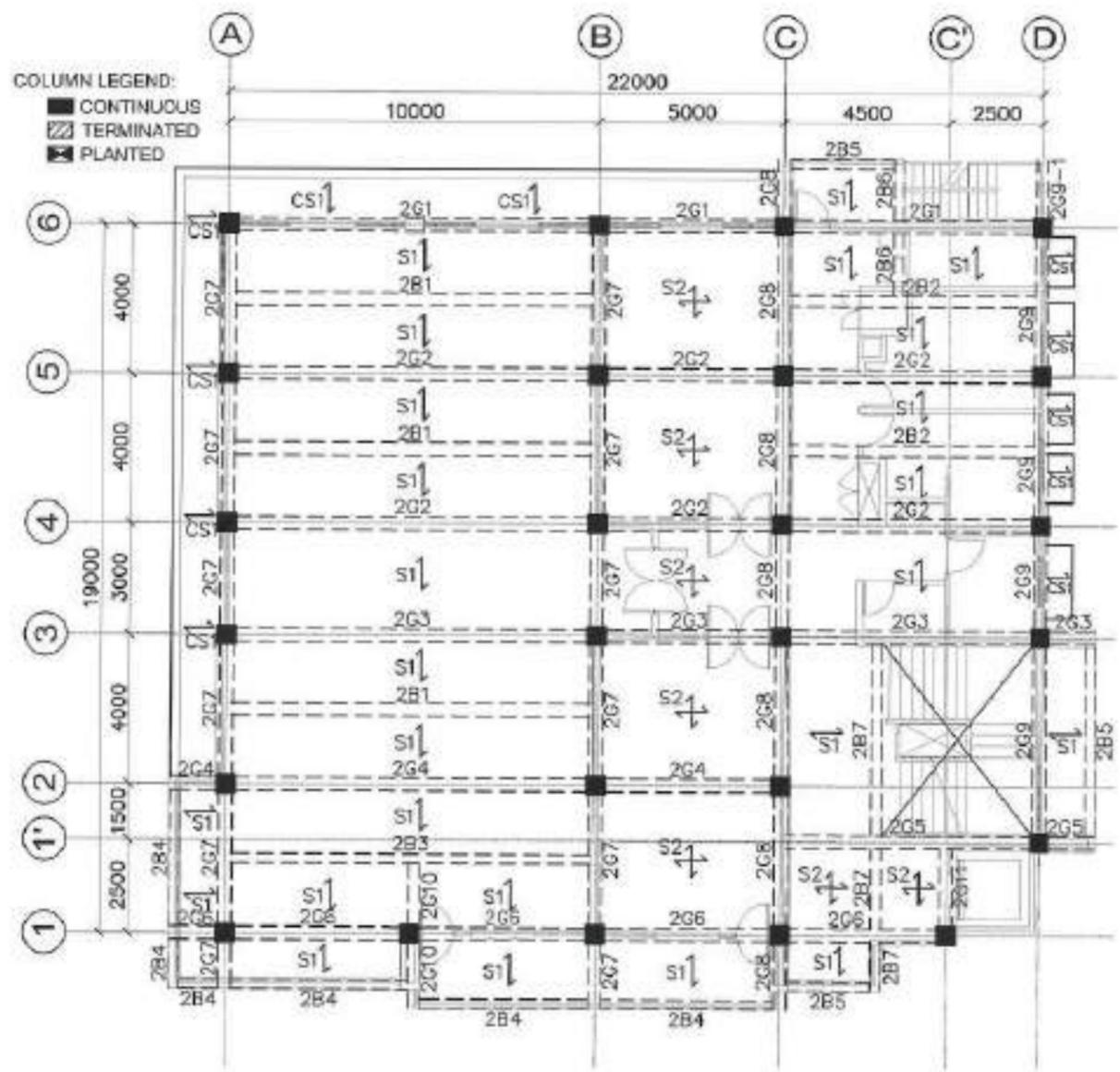
SCHEDULE OF COLUMN

LEVEL	DESIGNATION	
	C1	C2
UPPER ROOF ↑ ROOF DECK		
	SIZE: 400 x 400 REBAR: 10T10mm TIES: 3.00T10mm @ 150mm OC TD 1M	SIZE: 400 x 400 REBAR: 10T10mm TIES: 3.00T10mm @ 150mm OC TD 1M
ROOF DECK ↑ THIRD FLOOR		
	SIZE: 400 x 400 REBAR: 10T10mm TIES: 3.00T10mm @ 150mm OC TD 1M	SIZE: 400 x 400 REBAR: 10T10mm TIES: 3.00T10mm @ 150mm OC TD 1M
THIRD FLOOR ↑ SECOND FLOOR		
	SIZE: 400 x 400 REBAR: 10T10mm TIES: 3.00T10mm @ 150mm OC TD 1M	SIZE: 400 x 400 REBAR: 10T10mm TIES: 3.00T10mm @ 150mm OC TD 1M
SECOND FLOOR ↑ FOUNDATION		
	SIZE: 400 x 400 REBAR: 10T10mm TIES: 3.00T10mm @ 150mm OC TD 1M	SIZE: 400 x 400 REBAR: 10T10mm TIES: 3.00T10mm @ 150mm OC TD 1M

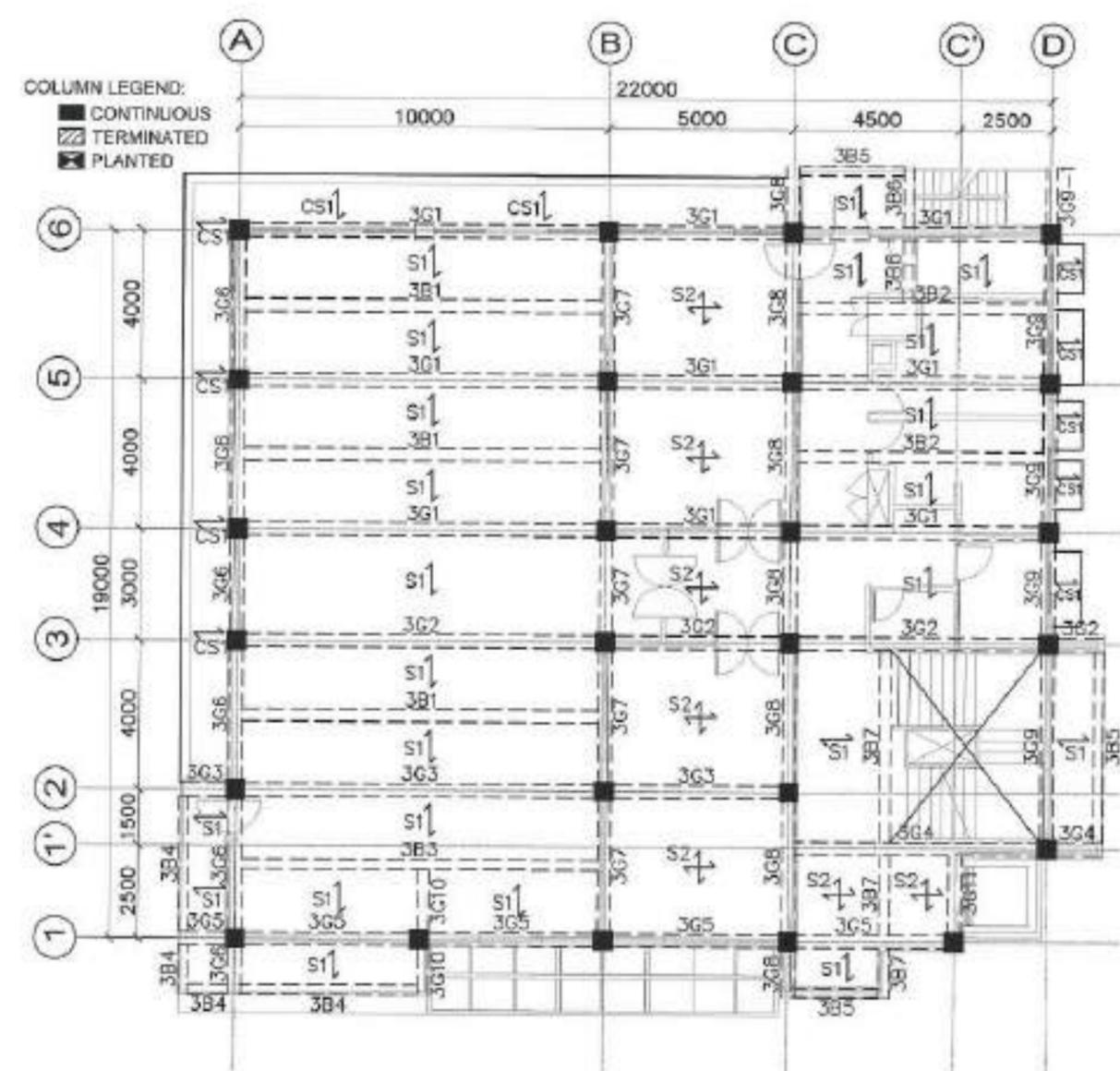


FOUNDATION PLAN
 SCALE 1:200 MTS.

<p>BCOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BCOL UNIVERSITY LEGAL WEST LEGAL CITY TEL. NO. 788 800-0004</p>	DESIGNED BY ENGR. KEVIN B. LUZONG CIVIL ENGINEER	PROJECT TITLE CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGALPI CITY LOCATION: BCOL UNIVERSITY LEGAL WEST LEGALPI CITY	REVISIONS DATE SHEET CONTENTS CAD DRAWN BY CHECKED BY DATE	DESIGNED BY ENGR. KEVIN B. LUZONG CIVIL ENGINEER	REVISIONS APPROVAL ASST. DIR. FOR PLANNING & DEVELOPMENT	RECOMMENDING APPROVAL PROF. SONNIE A. RAMOS, CPA, MBA VICE PRESIDENT FOR PLANNING & DEVELOPMENT	APPROVED BY DR. BABY BOY BENJAMIN D. NIEVES III BCOL UNIVERSITY PRESIDENT	SHEET NO. S 20 OF 51
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**SECOND FLOOR
SLAB LAYOUT PLAN**
SCALE 1:200 M.S.



**THIRD FLOOR
SLAB LAYOUT PLAN**
SCALE 1:200 M.S.



BICOL UNIVERSITY
PHYSICAL DEVELOPMENT
AND MANAGEMENT OFFICE
BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY
TEL. NO. 0532-824204

DESIGNED BY:
ENGR. ALVIN B. LUZONG
REGISTERED PROFESSIONAL ENGINEER

PROJECT TITLE:
**CONSTRUCTION OF REGIONAL PEACE AND
DEVELOPMENT CENTER, LEGAZPI CITY**

LOCATION: BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY

REVISION DATE SHEET CONTENTS

AS SHOWN

DESIGNED BY:
ENGR. ALVIN B. LUZONG

CHECKED BY:
DR. BABY BOY BENJAMIN D. NEBBES III

DATE: 07/11/21

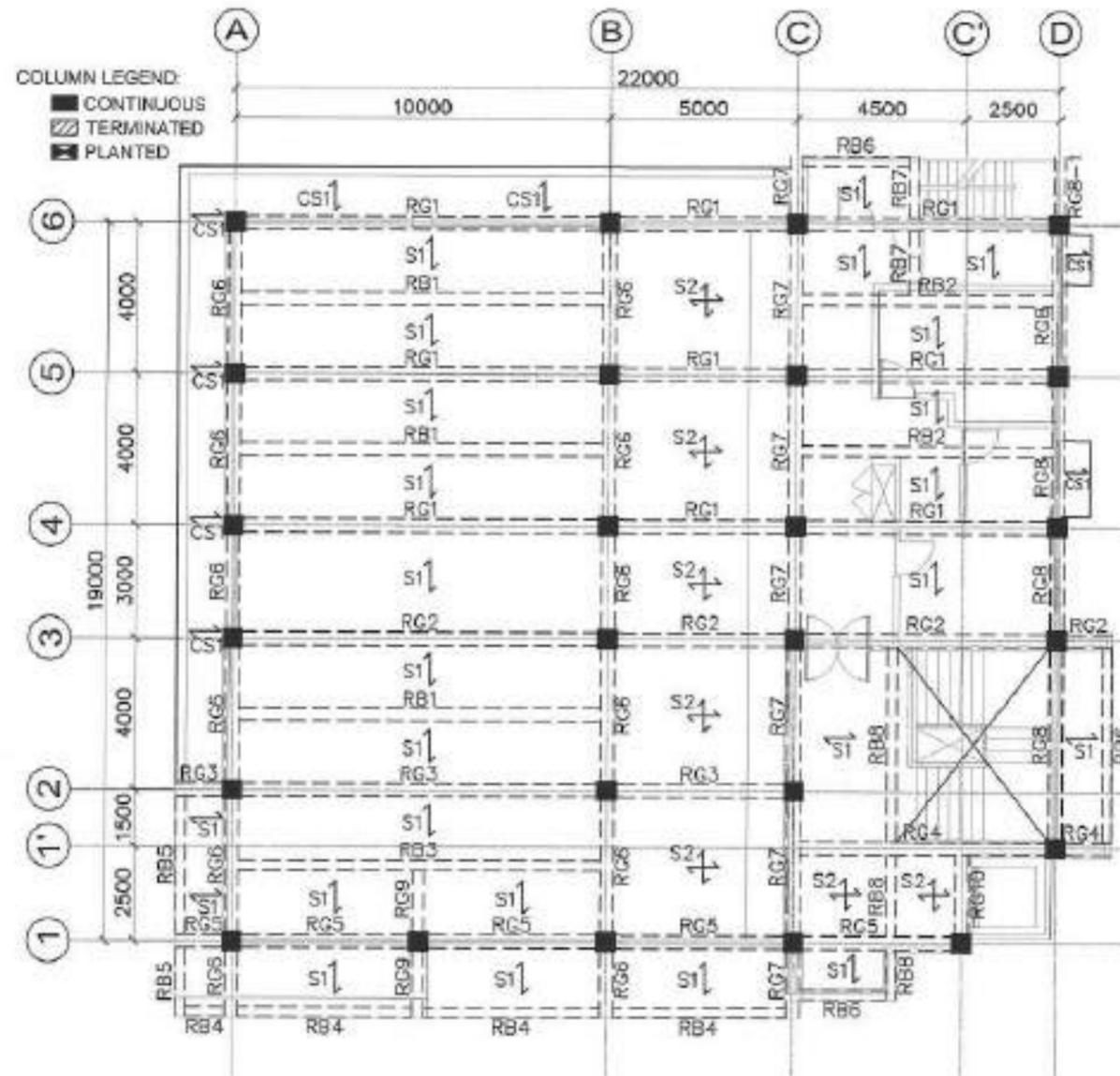
RECOMMENDING APPROVAL:
PROF. SONNIE A. RAMOS, CPA, MBA

RECOMMENDING APPROVAL:
DR. BABY BOY BENJAMIN D. NEBBES III

APPROVED BY:

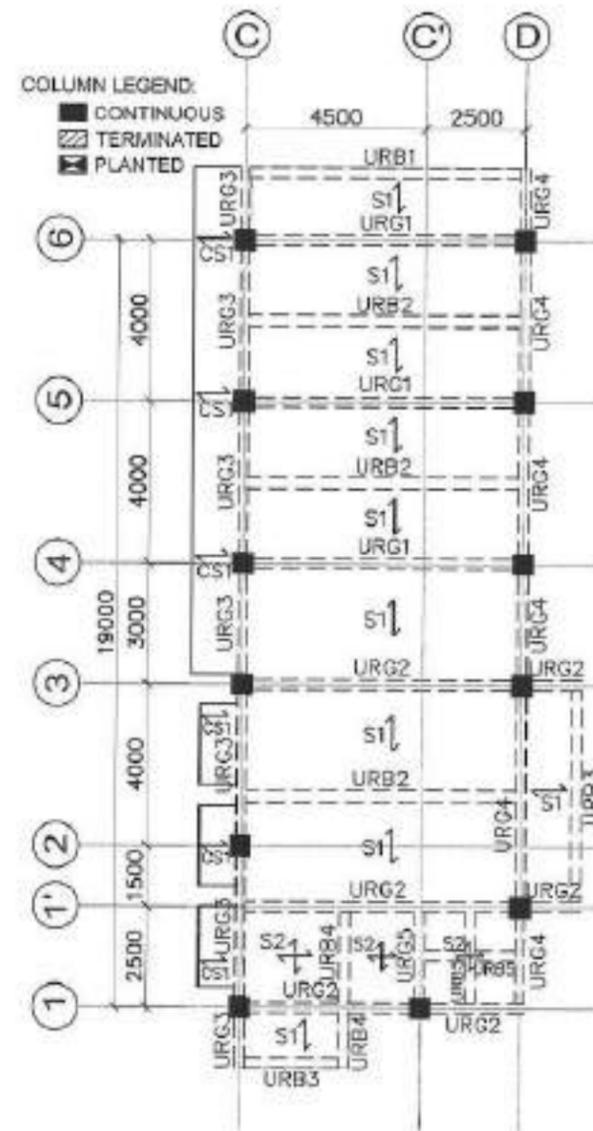
SHEET NO. **21**
OF **51**

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**ROOF DECK
SLAB LAYOUT PLAN**

SCALE 1:200 MTS.



**PENTHOUSE ROOF
SLAB LAYOUT PLAN**

SCALE 1:200 MTS.



SCHOOL UNIVERSITY
PHYSICAL DEVELOPMENT
AND MANAGEMENT OFFICE
SCHOOL UNIVERSITY LAGANIPAN, LAGANIPAN CITY
TEL. NO. (092) 880-4854

DESIGNED BY: **ENGR. ALVIN B. LUZONG**
REGISTERED ELECTRICAL ENGINEER

PROJECT NO.:
DATE:
SCALE:

PROJECT TITLE:
**CONSTRUCTION OF REGIONAL PEACE AND
DEVELOPMENT CENTER, LAGANIPAN CITY**
LOCATION: SCHOOL UNIVERSITY LAGANIPAN, LAGANIPAN CITY

REVISION:
DATE:
SHEET NO. 51

AS SHOWN

DATE:
DRAWN BY:
CHECKED BY:
DATE:

DESIGNED BY:
ENGR. ALVIN B. LUZONG
DIRECTOR

RECOMMENDED BY:
MR. MARIO M. MUCENO
SCHOOL UNIVERSITY DEPUTY CHIEF OF STAFF

RECOMMENDED BY:
PROF. SONNIE A. RAMOS, CPA, MBA
VICE PRESIDENT FOR FINANCING & DEVELOPMENT

RECOMMENDED BY:
DR. BABY BOY BENJAMIN T. MERRIS II
SCHOOL UNIVERSITY PRESIDENT

SHEET NO.:
S 22
8 51

GENERAL NOTES AND SPECIFICATIONS:

- ALL ELECTRICAL WORKS HEREIN SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (P.E.C.) THE NEW ELECTRICAL ENGINEERING LAW (R.A. 7920), LAWS AND ORDINANCES OF THE LOCAL GOVERNMENT UNIT AND RULES AND REGULATIONS OF THE LOCAL ELECTRICAL POWER UTILITY COMPANY.
- ALL WIRING SHALL BE IN RIGID STEEL CONDUIT (R.S.C.) FOR SERVICE LINES AND UNPLASTICIZED POLYVINYLCHLORIDE, RIGID (UP.V.C.) FOR LOAD SIDE CONDUITS IN CONFORMANCE WITH THE EXISTING ELECTRICAL CODE.
- PANELBOARDS AND OVERCURRENT PROTECTION ENCLOSURES SHALL BE NEMA-1 FOR INDOOR USE AND NEMA-3R FOR OUTDOOR USE UNLESS OTHERWISE SPECIFIED.
- POWER SERVICE TO THE BUILDING SHALL BE 400/230V, 60 Hz., 4-WIRE, THREE PHASE.
- ALL WIRING INSTALLATION SHALL BE CONCEALED FROM VIEW.
- UNLESS OTHERWISE INDICATED BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN 1.6 mm DIAMETER, SOLID COPPER, MEDIUM DRAWN, TW TYPE, 600 VOLTS INSULATIONS.
- MINIMUM SIZE OF CONDUIT SHALL BE 20 mmØ FOR RIGID STEEL CONDUIT (R.S.C.) AND 20 mmØ FOR UNPLASTICIZED POLYVINYL CHLORIDE, RIGID (UP.V.C.).
- NO BRANCH CIRCUIT CONDUCTORS SHALL BE LOADED MORE THAN 80% OF ITS RATED AMPACITY.
- FOR EVERY SPARE BRANCH CIRCUIT IN PANELBOARD, PROVIDE ONE 20 mmØ UP.V.C. WITH #16 G.L. PULLWIRE CONNECTED TO JUNCTION BOX W/ COVER AT THE SLAB.
- BOXES SHALL BE PRESSED STEEL WITH REQUIRED THICKNESS IN CONFORMANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE.
- MOUNTING HEIGHT OF PANEL AND DEVICES ARE AS FOLLOWS: (FROM FLOOR FINISH TO CENTER OF UNIT):

A. WALL SWITCHES	1400mm
B. WALL CONVENIENCE OUTLETS	300mm
C. COUNTER-TOP OUTLET	300mm (Fr. Counter Finish)
D. KWHr. METER	1830mm
E. PANELBOARD	1830mm
F. WALL AIR CONDITIONING OUTLET	VERIFY ARCHITECT
- CONDUITS/RACEWAYS SHALL BE ADEQUATELY SUPPORTED AS REQUIRED IN CONFORMANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE.
- DISTRIBUTION PANEL SHALL BE READILY ACCESSIBLE. THAT NO OBSTACLE SHOULD BLOCK ACCESS TO THE PANEL.
- THE INSTALLATION SHALL BE DIRECTLY SUPERVISED BY A DULY LICENSED ELECTRICAL PRACTITIONER IN CONFORMANCE WITH R.A. 7920.

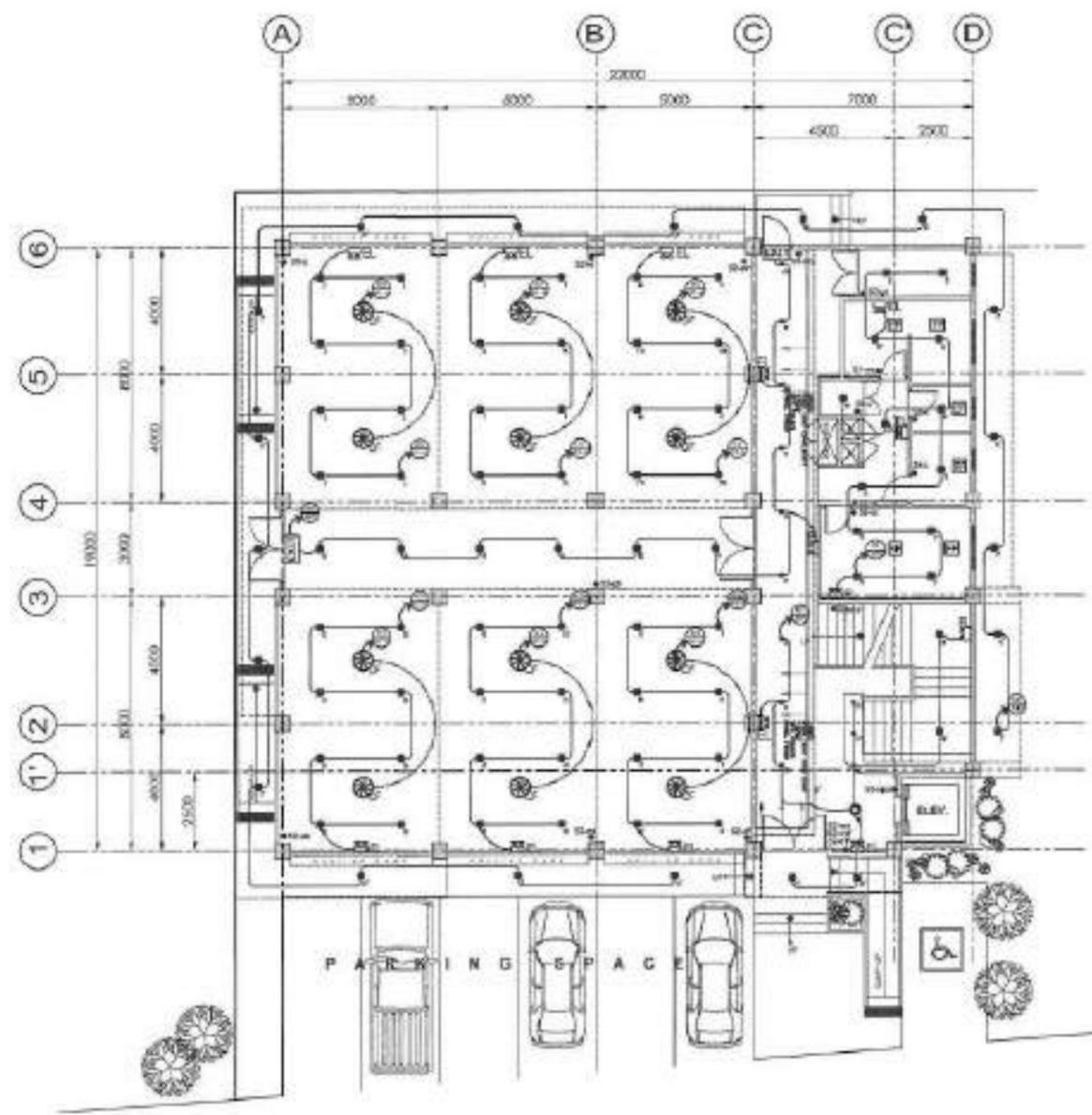
LEGEND:

	Pinlight 15 Watts LED Type
	15 Watts LED Square Type (Surface Mount)
	Exit Light, 2W LED lamps, min. 2 hours rated duration, high temp nickel cadmium battery, surface type, similar to FUMACO
	Emergency Light, 2 x 10 halogen lamp, 12V 4.5 AH battery, min. 2 hrs rated duration, similar to FUMACO MINNIE MR 203.
	Special Purpose Outlet
	Floor Mounted Duplex Outlet, 16A, 250V, 60Hz, Grounding type, Flush mounted
	Duplex Receptacle Outlet, 16A, 250V, 60Hz, Grounding type, Flush mounted
	REF OUTLET
	Weatherproof Outlet, 16A, 250V, 60Hz, Grounding type, Flush mounted
	Split Type Fan Coil Unit
	Window Type Air Conditioning Unit
	Ceiling Cassette Type Exhaust Fan
	Ceiling Fan
	ACCU
	Light Switch, One-gang with 1-15A, 1P, 230V Device, Small letter indicates lighting fixture controlled.
	Light Switch, Two-gang with 2-15A, 1P, 230V Device, Small letter indicates lighting fixture controlled.
	Light Switch, Three-gang with 3-15A, 1P, 230V Device, Small letter indicates lighting fixture controlled.
	Light Switch, One-gang with 1-15A, 1P, 230V Three-Way Device, Small letter indicates lighting fixture controlled.
	Timer Switch, 24 hour program, surface and DIN rail mount, 500 hours reserved battery
	Branch Circuit Homerun to panelboard. X: Branch circuit number Y: Panelboard source
	Panelboard, Rating as indicated.
	Ground Terminal Busbar
	Junction Box
	Junction Box provision for water pump.
	CEILING FAN
	KWHR Meter

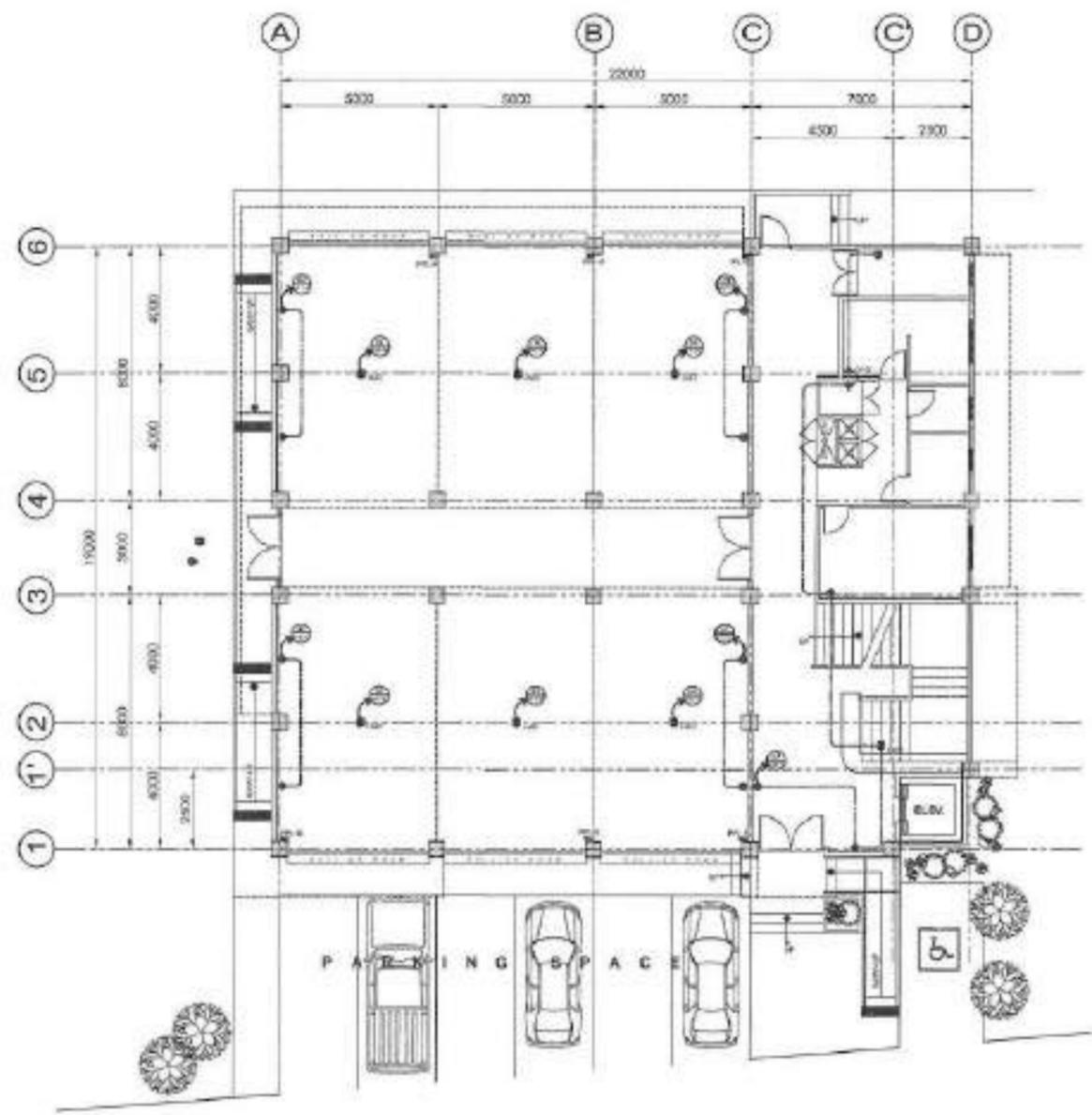
NOTE:

- Not all symbols are used in this project.

<p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY PH. NO. 352 854534</p>	<p>PREPARED BY:</p> <p></p> <p>ENGR. FERNAN D. DEMATREA</p> <p>REGISTERED ELECTRICAL ENGINEER</p>	<p>PRJ. NO.:</p> <p>UPRA:</p> <p>PRJ. NO. I:</p> <p>DATE:</p> <p>PLACE:</p> <p>IN:</p>	<p>PROJECT TITLE:</p> <p>CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY</p> <p>LOCAL OFF. BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY</p>	<p>REVISION</p> <p>DATE</p> <p>SHEET CONTENTS</p> <p>AS SHOWN</p>	<p>DESIGNER:</p> <p>ENGR. ALVIN B. LUZONG</p> <p>DATE:</p>	<p>RECOMMENDING APPROVAL:</p> <p></p> <p>ENGR. ALVIN B. LUZONG</p> <p>DATE:</p>	<p>RECOMMENDING APPROVAL:</p> <p></p> <p>ATTY. ALEX E. REPOMOCENO</p> <p>DATE:</p>	<p>APPROVED BY:</p> <p></p> <p>DR. BABY BOY BENJAMIN D. NERECES III</p> <p>DATE:</p>	<p>SHEET NO.</p> <p>E 23</p> <p>1 51</p>
	<p>BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY</p>		<p>LOCAL OFF. BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY</p>		<p>REGISTERED ELECTRICAL ENGINEER</p>		<p>REGISTERED ELECTRICAL ENGINEER</p>		<p>REGISTERED ELECTRICAL ENGINEER</p>

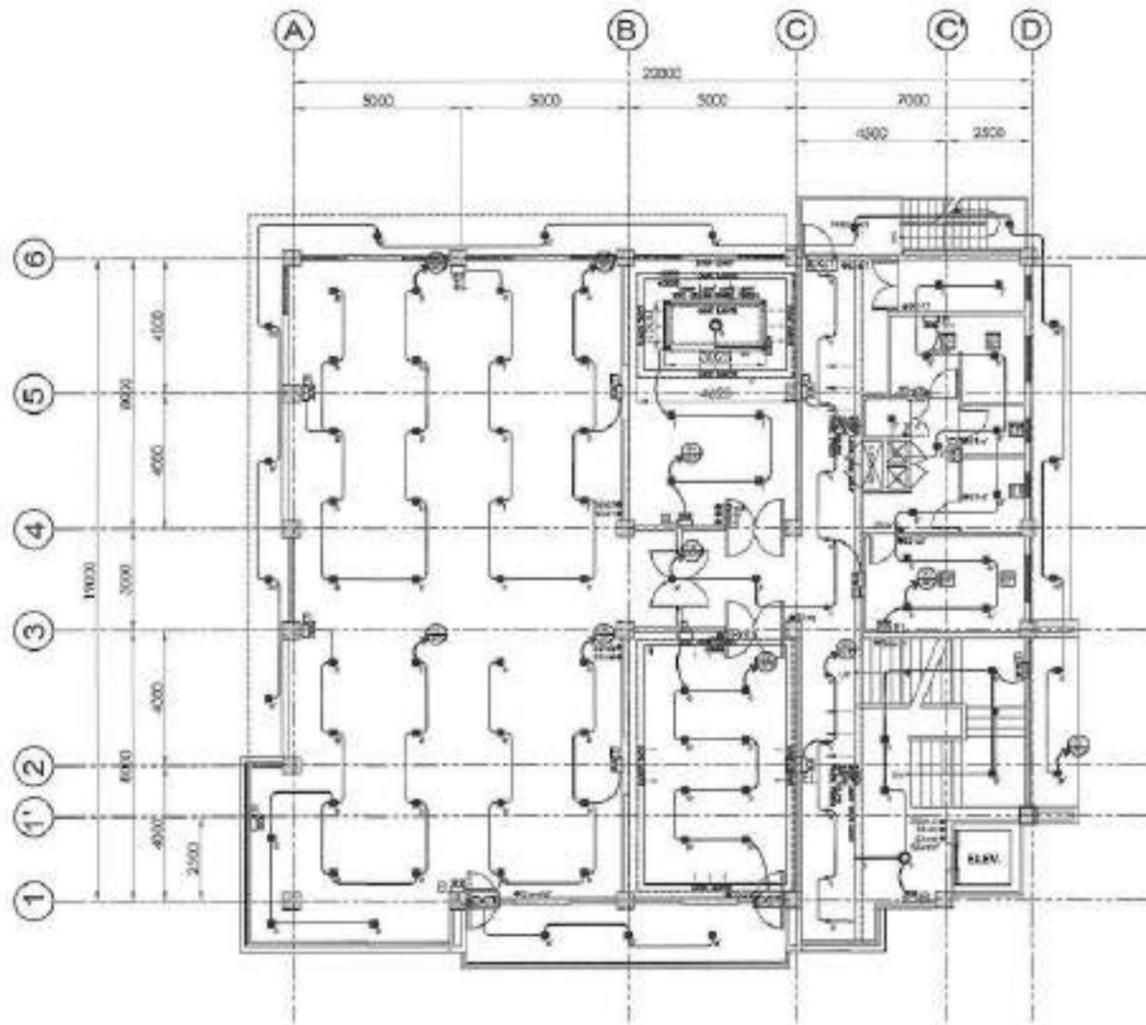


GROUND FLOOR LIGHTING LAY-OUT PLAN
SCALE 1:200 MTS.



GROUND FLOOR POWER LAY-OUT PLAN
SCALE 1:200 MTS.

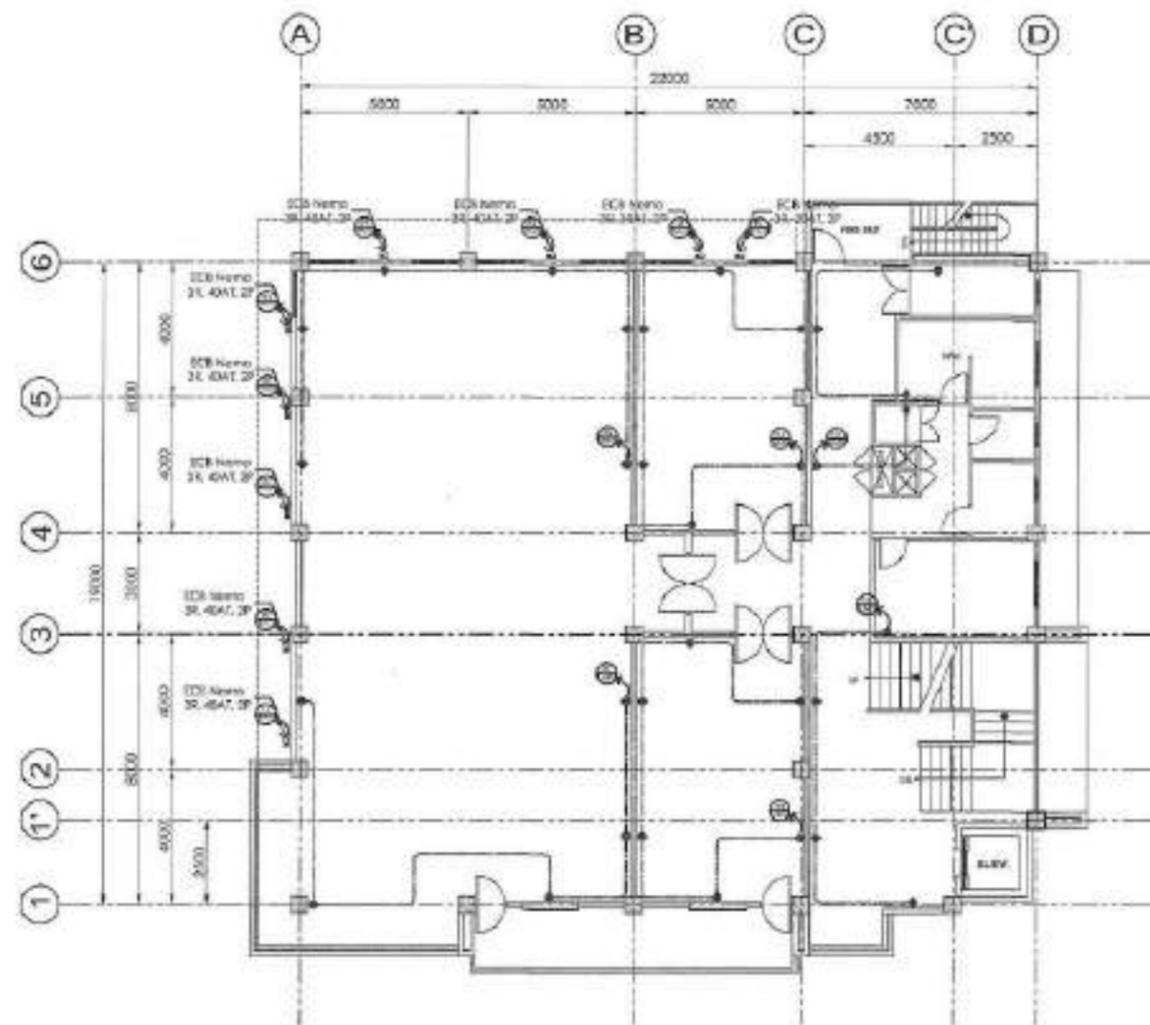
 <p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY TEL. NO. 0521804284</p>	PREPARED BY:  ENGR. FERRAN D. DEMATERA UNIVERSITY TECHNICAL OFFICER	PRO NO. INFO NO. PTR NO. DATE PLACE TEL.	PROJECT TITLE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY LOCATION: BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY	REVISION DATE SHEET CONTENTS AS SHOWN	DADD: DESIGNED: CHECKED: DATE:	RECOMMENDING APPROVAL:  ENGR. ALVIN B. LUZONG DIRECTOR ROAD	RECOMMENDING APPROVAL:  ATTY. ALEX B. NEPOMUCENO DEAN, COLLEGE OF SOCIAL SCIENCES AND HUMANITIES	APPROVED BY:  DR. BABY BOY BENJAMIN D. NEBRES III BICOL UNIVERSITY PRESIDENT	SHEET NO. 
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**SECOND FLOOR
LIGHTING LAY-OUT PLAN**



1:200 MTS.

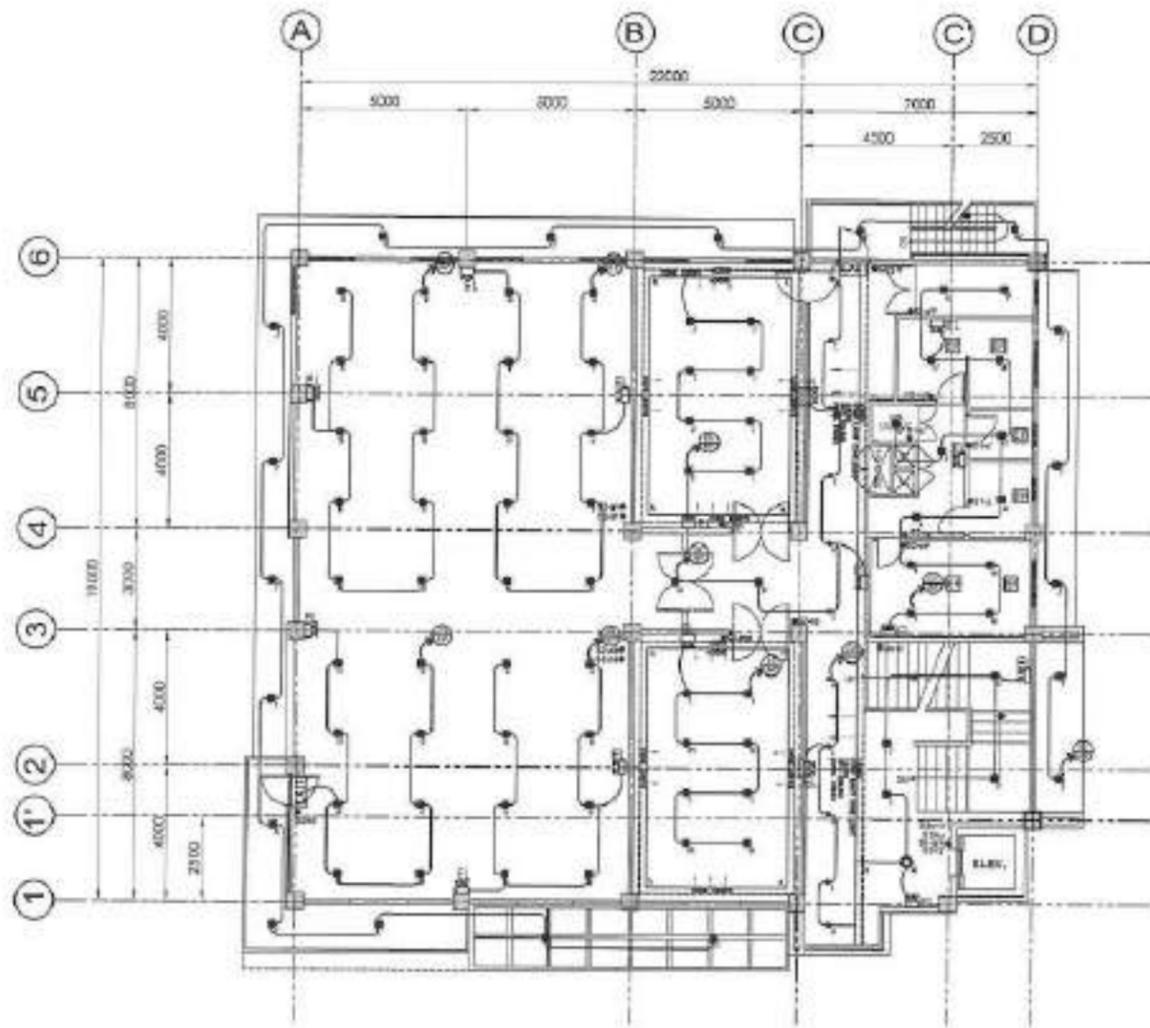


**SECOND FLOOR
POWER LAY-OUT PLAN**



1:200 MTS.

 <p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY TEL. NO. 052 852-004</p>	<p>PREPARED BY:</p> <p><i>[Signature]</i> ENGR. FERNAN D. DEMATERA UNIVERSITY ELECTRICAL ENGINEER</p>	<p>FIG. NO.</p> <p>WPKA 1</p> <p>PR. NO. 1</p> <p>DATE:</p> <p>PLACE:</p> <p>BY:</p>	<p>PROJECT TITLE:</p> <p>CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY</p> <p>LOCATION: BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY</p>	<p>REVISION</p> <p>DATE</p> <p>SHEET CONTENTS</p> <p>AS SHOWN</p>	<p>DATE:</p> <p>DESIGNED:</p> <p>CHECKED:</p> <p>DATE:</p>	<p>RECOMMENDING APPROVAL:</p> <p><i>[Signature]</i> ENGR. ALVIN B. LUZONG DIRECTOR PWD</p>	<p>RECOMMENDING APPROVAL:</p> <p><i>[Signature]</i> DR. ALEX E. REFORMUCENO DEAN, COLLEGE OF FOOD, SCIENCE AND NUTRITION</p>	<p>APPROVED BY:</p> <p><i>[Signature]</i> DR. BARY BOY BENJAMIN D. NEBRES III BICOL UNIVERSITY PRESIDENT</p>	<p>SHEET NO</p> <p>E 25 3 10 51</p>
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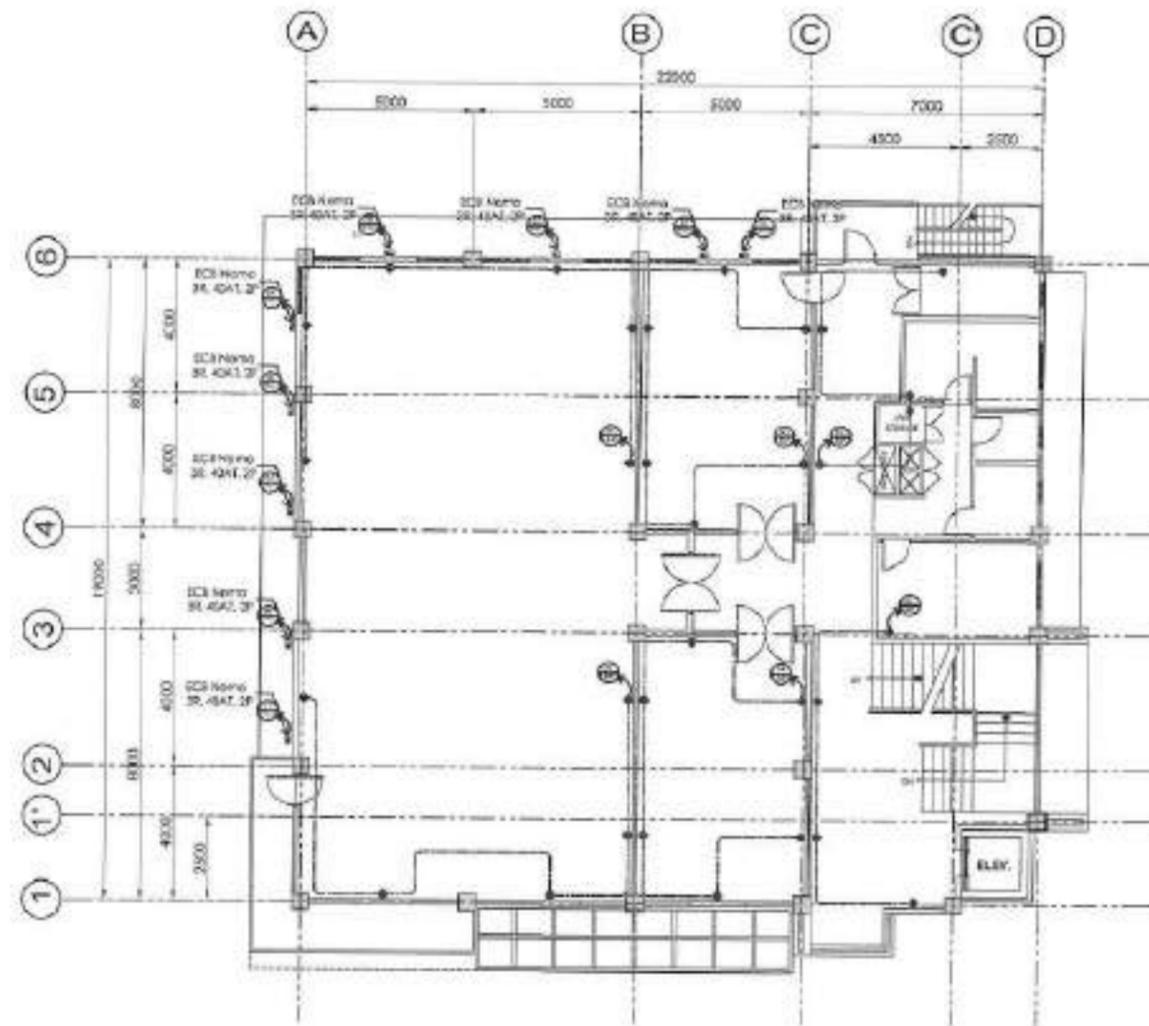


THIRD FLOOR
LIGHTING LAY-OUT PLAN



SCALE

1:200 MTS.



THIRD FLOOR
POWER LAY-OUT PLAN



SCALE

1:200 MTS.



SICOL UNIVERSITY
PHYSICAL DEVELOPMENT
AND MANAGEMENT OFFICE
SICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY
TEL. NO. (053) 892-024

PREPARED BY:
[Signature]
ENGR. FERNAN D. DEMATERA
UNIVERSITY ELECTRICAL ENGINEER

PROJ. NO.
LUPON:
PTR. NO. 1
DATE:
PLANS:
TITLE:

PROJECT TITLE:
CONSTRUCTION OF REGIONAL PEACE AND
DEVELOPMENT CENTER, LEGAZPI CITY
LOCATION: SICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY

REVISION
DATE
SHEET CONTENTS
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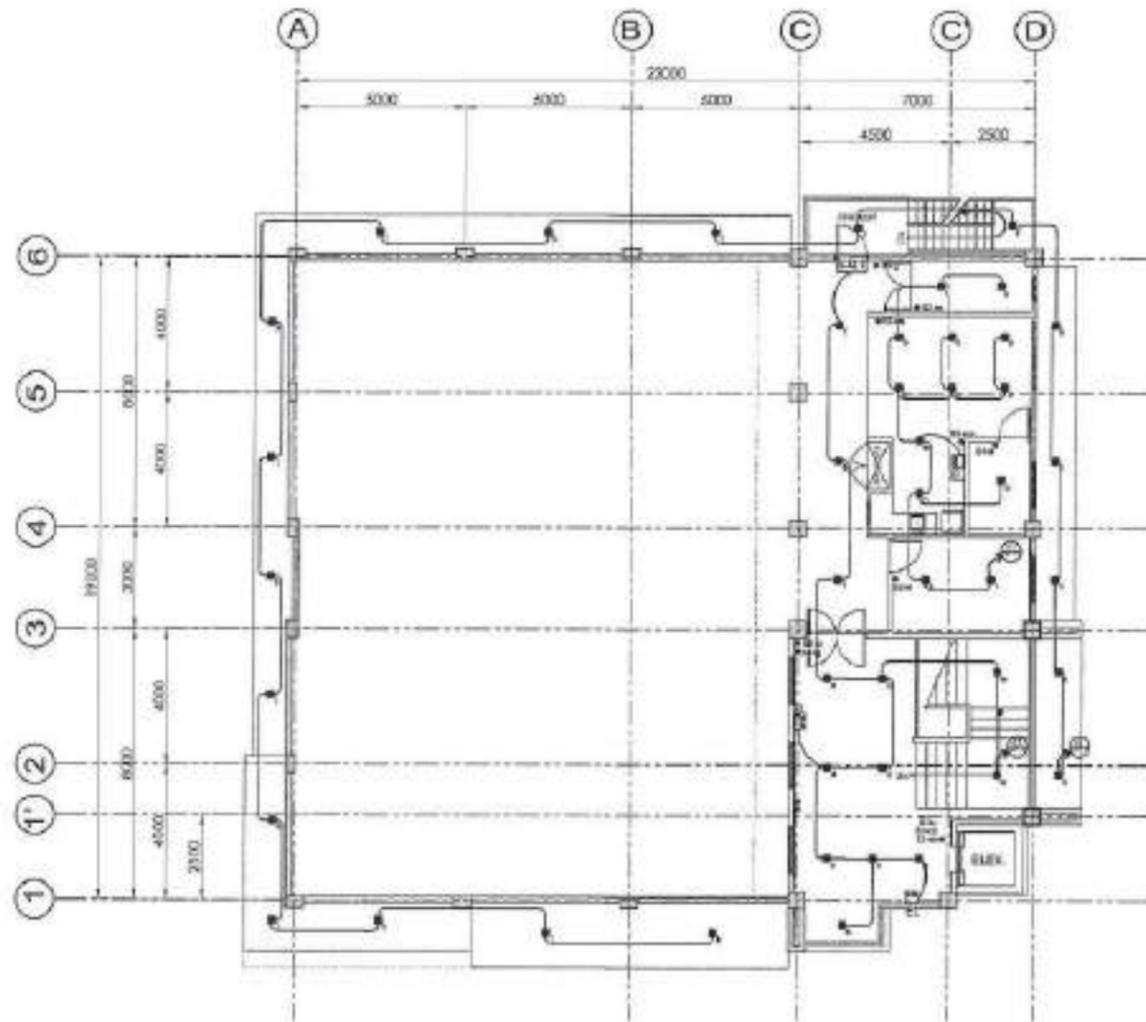
RECOMMENDING APPROVAL:
[Signature]
ENGR. ALVIN S. LUZONG
REGISTERED ELECTRICAL ENGINEER

RECOMMENDING APPROVAL:
[Signature]
ATY. ALEX S. NEPOMUCENO
ENR. COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY

APPROVED BY:
[Signature]
DR. BABY BOY BENJAMIN D. NERRES III
SICOL UNIVERSITY PRESIDENT

SHEET NO.

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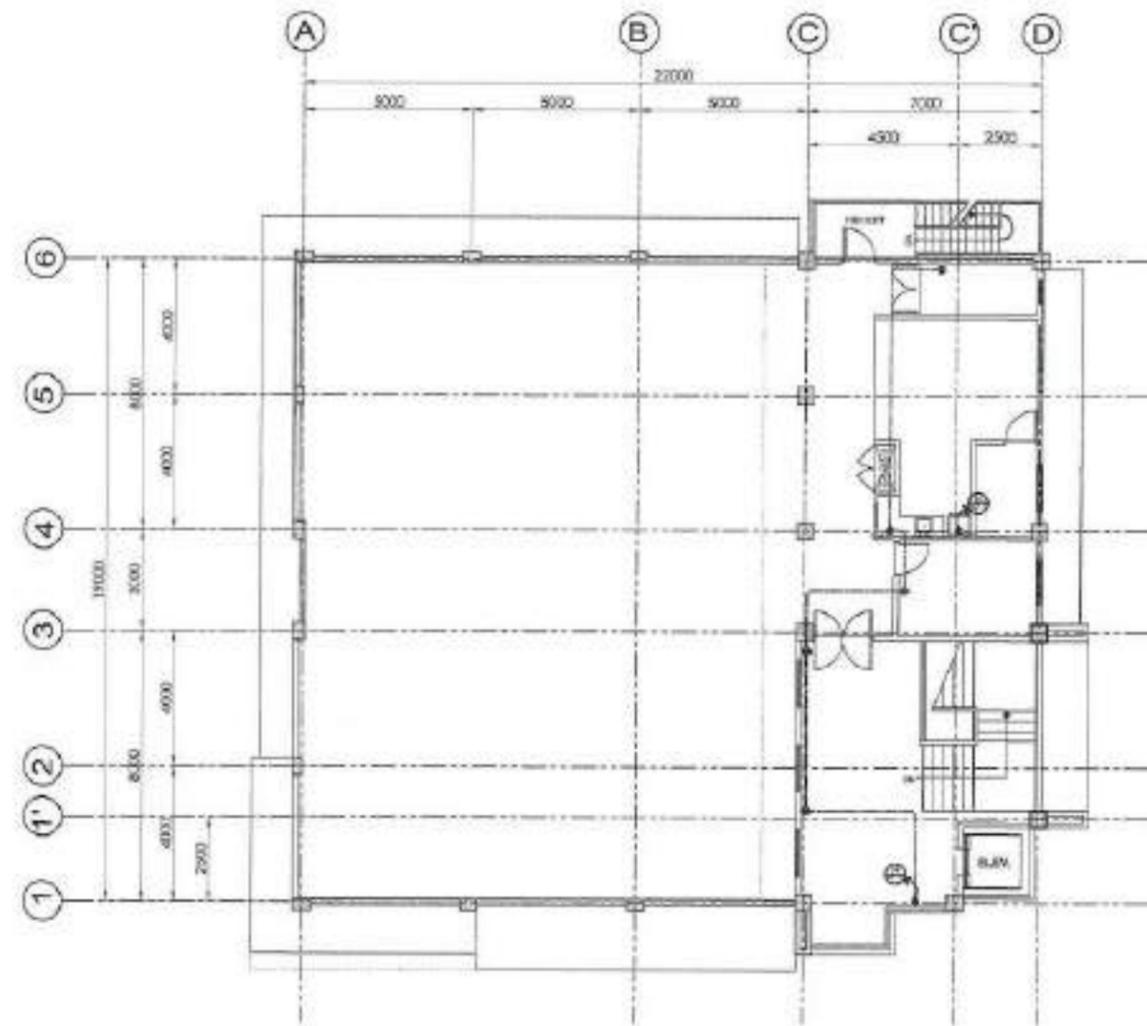


**ROOF DECK
LIGHTING LAY-OUT PLAN**



SCALE

1:200 MTS.



**ROOF DECK
POWER LAY-OUT PLAN**



SCALE

1:200 MTS.

 <p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY TEL. NO. (052) 892-4314</p>	PREPARED BY:  ENGR. FERMAN D. DEMATERA <small>REGISTERED ELECTRICAL ENGINEER</small>	PRC NO. MPOA 1 PIR NO. 1 DATE: PLACE: TB:	PROJECT TITLE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY	REVISION DATE SHEET CONTENTS AS SHOWN	DADD: DESIGNED: CHECKED: DATE:	RECOMMENDING APPROVAL:  ENGR. ALVIN B. LUZONG <small>DIRECTOR</small>	RECOMMENDING APPROVAL:  ATTY. ALEX B. REMONCENO <small>DEAN, COLLEGE OF SOCIAL SERVICES AND HUMANITY</small>	APPROVED BY:  DR. BABY BOY BENJAMIN D. NEBRES III <small>BICOL UNIVERSITY PRESIDENT</small>	SHEET NO. 
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SCHEDULE OF LOADS

Panel: PF1A		Feed from: MC		Voltage: 230V		Main: 60AT, 300AF, 1P, 18 kVc, 230V MCCB							
Location: G/T		Conduit: 25 mm Ø PVC		Frequency: 60		Feeder: 2 - 14 mm ² THHN							
		Enclosure: NEMA3		Phase: 1		Wire: 2							
CIRCUIT NO.	LOAD DESCRIPTION	VOLT	VA	CIRCUIT PROTECTION					SET	FEEDER CONDUCTOR	EGC	RACEWAY	
				AMPS	AT	AF	POLE	SIZE					TYPE
1	8-LIGHTING OUTLET, 1-EL	230	900.00	3.91	36	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
2	CONVENIENCE OUTLET	230	400.00	1.74	20	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
3	CEILING FAN	230	400.00	1.74	20	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
4	SPO	230	1,500.00	6.52	30	65	1	30	MCB BOLT-ON	1	2 - 5.5 mm ² THHN	5.5 mm ² THW	25 mm Ø PVC
5	SPACE	230	3,450.00	15.00	30	65	1	30	MCB BOLT-ON	1			
6	SPACE												
TOTAL CONNECTED LOAD			6,690.00	28.91									
$I(T) = (6690 VA / 230V) \times 1.25 = 36.14$													

Panel: PF1B		Feed from: MC		Voltage: 230V		Main: 60AT, 100AF, 1P, 18 kVc, 230V MCCB							
Location: G/T		Conduit: 25 mm Ø PVC		Frequency: 60		Feeder: 2 - 14 mm ² THHN							
		Enclosure: NEMA3		Phase: 1		Wire: 2							
CIRCUIT NO.	LOAD DESCRIPTION	VOLT	VA	CIRCUIT PROTECTION					SET	FEEDER CONDUCTOR	EGC	RACEWAY	
				AMPS	AT	AF	POLE	SIZE					TYPE
1	8-LIGHTING OUTLET, 1-EL	230	900.00	3.91	36	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
2	CONVENIENCE OUTLET	230	400.00	1.74	20	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
3	CEILING FAN	230	400.00	1.74	20	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
4	SPO	230	1,500.00	6.52	30	65	1	30	MCB BOLT-ON	1	2 - 5.5 mm ² THHN	5.5 mm ² THW	25 mm Ø PVC
5	SPACE	230	3,450.00	15.00	30	65	1	30	MCB BOLT-ON	1			
6	SPACE												
TOTAL CONNECTED LOAD			6,650.00	28.91									
$I(T) = (6650 VA / 230V) \times 1.25 = 36.14$													

Panel: PF1C		Feed from: MC		Voltage: 230V		Main: 60AT, 300AF, 1P, 18 kVc, 230V MCCB							
Location: G/T		Conduit: 25 mm Ø PVC		Frequency: 60		Feeder: 2 - 14 mm ² THHN							
		Enclosure: NEMA3		Phase: 1		Wire: 2							
CIRCUIT NO.	LOAD DESCRIPTION	VOLT	VA	CIRCUIT PROTECTION					SET	FEEDER CONDUCTOR	EGC	RACEWAY	
				AMPS	AT	AF	POLE	SIZE					TYPE
1	8-LIGHTING OUTLET, 1-EL	230	900.00	3.91	36	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
2	CONVENIENCE OUTLET	230	400.00	1.74	20	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
3	CEILING FAN	230	400.00	1.74	20	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
4	SPO	230	1,500.00	6.52	30	65	1	30	MCB BOLT-ON	1	2 - 5.5 mm ² THHN	5.5 mm ² THW	25 mm Ø PVC
5	SPACE	230	3,450.00	15.00	30	65	1	30	MCB BOLT-ON	1			
6	SPACE												
TOTAL CONNECTED LOAD			6,690.00	28.91									
$I(T) = (6690 VA / 230V) \times 1.25 = 36.14$													

Panel: RP1D		Feed from: MC		Voltage: 230V		Main: 60AT, 300AF, 1P, 18 kVc, 230V MCCB							
Location: G/T		Conduit: 25 mm Ø PVC		Frequency: 60		Feeder: 2 - 14 mm ² THHN							
		Enclosure: NEMA3		Phase: 1		Wire: 2							
CIRCUIT NO.	LOAD DESCRIPTION	VOLT	VA	CIRCUIT PROTECTION					SET	FEEDER CONDUCTOR	EGC	RACEWAY	
				AMPS	AT	AF	POLE	SIZE					TYPE
1	8-LIGHTING OUTLET, 1-EL	230	900.00	3.91	36	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
2	CONVENIENCE OUTLET	230	400.00	1.74	20	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
3	CEILING FAN	230	400.00	1.74	20	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
4	SPO	230	1,500.00	6.52	30	65	1	30	MCB BOLT-ON	1	2 - 5.5 mm ² THHN	5.5 mm ² THW	25 mm Ø PVC
5	SPACE	230	3,450.00	15.00	30	65	1	30	MCB BOLT-ON	1			
6	SPACE												
TOTAL CONNECTED LOAD			6,690.00	28.91									
$I(T) = (6690 VA / 230V) \times 1.25 = 36.14$													

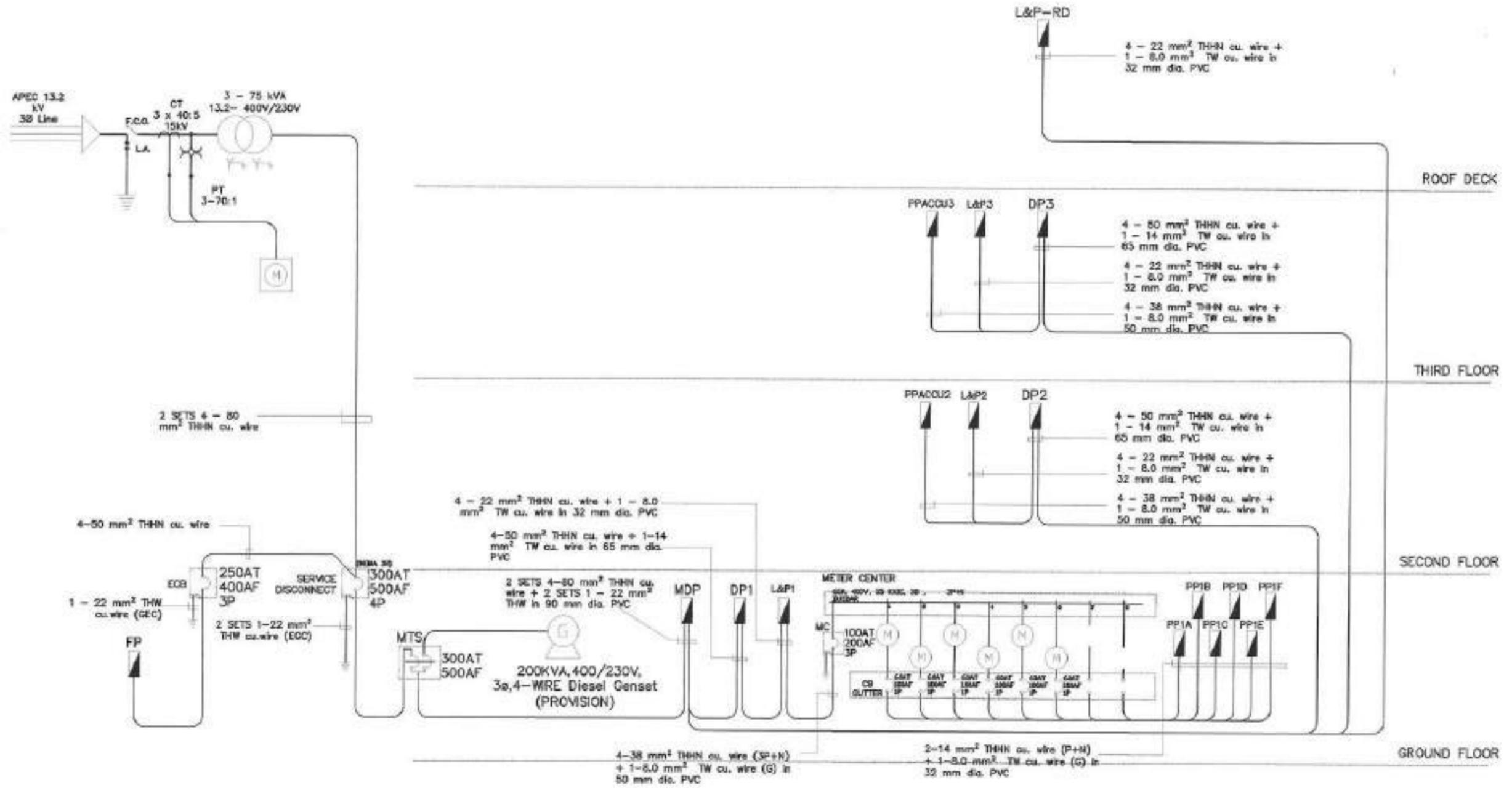
Panel: RP1E		Feed from: MC		Voltage: 230V		Main: 60AT, 100AF, 1P, 18 kVc, 230V MCCB							
Location: G/T		Conduit: 25 mm Ø PVC		Frequency: 60		Feeder: 2 - 14 mm ² THHN							
		Enclosure: NEMA3		Phase: 1		Wire: 2							
CIRCUIT NO.	LOAD DESCRIPTION	VOLT	VA	CIRCUIT PROTECTION					SET	FEEDER CONDUCTOR	EGC	RACEWAY	
				AMPS	AT	AF	POLE	SIZE					TYPE
1	8-LIGHTING OUTLET, 1-EL	230	900.00	3.91	36	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
2	CONVENIENCE OUTLET	230	400.00	1.74	20	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
3	CEILING FAN	230	400.00	1.74	20	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
4	SPO	230	1,500.00	6.52	30	65	1	30	MCB BOLT-ON	1	2 - 5.5 mm ² THHN	5.5 mm ² THW	25 mm Ø PVC
5	SPACE	230	3,450.00	15.00	30	65	1	30	MCB BOLT-ON	1			
6	SPACE												
TOTAL CONNECTED LOAD			6,690.00	28.91									
$I(T) = (6690 VA / 230V) \times 1.25 = 36.14$													

Panel: RP1F		Feed from: MC		Voltage: 230V		Main: 60AT, 100AF, 1P, 18 kVc, 230V MCCB							
Location: G/T		Conduit: 25 mm Ø PVC		Frequency: 60		Feeder: 2 - 14 mm ² THHN							
		Enclosure: NEMA3		Phase: 1		Wire: 2							
CIRCUIT NO.	LOAD DESCRIPTION	VOLT	VA	CIRCUIT PROTECTION					SET	FEEDER CONDUCTOR	EGC	RACEWAY	
				AMPS	AT	AF	POLE	SIZE					TYPE
1	8-LIGHTING OUTLET, 1-EL	230	900.00	3.91	36	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
2	CONVENIENCE OUTLET	230	400.00	1.74	20	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
3	CEILING FAN	230	400.00	1.74	20	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN	3.5 mm ² THW	20 mm Ø PVC
4	SPO	230	1,500.00	6.52	30	65	1	30	MCB BOLT-ON	1	2 - 5.5 mm ² THHN	5.5 mm ² THW	25 mm Ø PVC
5	SPACE	230	3,450.00	15.00	30	65	1	30	MCB BOLT-ON	1			
6	SPACE												
TOTAL CONNECTED LOAD			6,650.00	28.91									
$I(T) = (6650 VA / 230V) \times 1.25 = 36.14$													

Panel: Motor Center		Feed from: G/T		Voltage: 400V		Main: 100AT, 100AF, 3P, 20 kVc, 400/230V MCCB							
Location: G/T		Conduit: 50 mm Ø PVC		Frequency: 60		Feeder: 4 - 35 mm ² THHN (3P+N)							
		Enclosure: NEMA3		Phase: 3		Wire: 1							
CIRCUIT NO.	LOAD DESCRIPTION	VOLT	VA	CIRCUIT PROTECTION					SET	FEEDER CONDUCTOR	EGC	RACEWAY	
				AMPS	AT	AF	POLE	SIZE					TYPE
1	PF1A	230	900.00	3.91	36	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN (3P+N)	3.5 mm ² THW	20 mm Ø PVC
2	PF1B	230	400.00	1.74	20	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN (3P+N)	3.5 mm ² THW	20 mm Ø PVC
3	PF1C	230	400.00	1.74	20	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN (3P+N)	3.5 mm ² THW	20 mm Ø PVC
4	RP1D	230	1,500.00	6.52	30	65	1	30	MCB BOLT-ON	1	2 - 5.5 mm ² THHN (3P+N)	5.5 mm ² THW	25 mm Ø PVC
5	RP1E	230	1,500.00	6.52	30	65	1	30	MCB BOLT-ON	1	2 - 5.5 mm ² THHN (3P+N)	5.5 mm ² THW	25 mm Ø PVC
6	RP1F	230	1,500.00	6.52	30	65	1	30	MCB BOLT-ON	1	2 - 5.5 mm ² THHN (3P+N)	5.5 mm ² THW	25 mm Ø PVC
7	SPACE												
8	SPACE												
TOTAL CONNECTED LOAD			7,200.00	32.21	37.64	37.64	3.00						
$I(T) = (7200 VA \times 1.25) / (1.732 \times 400V) = 71.20$													

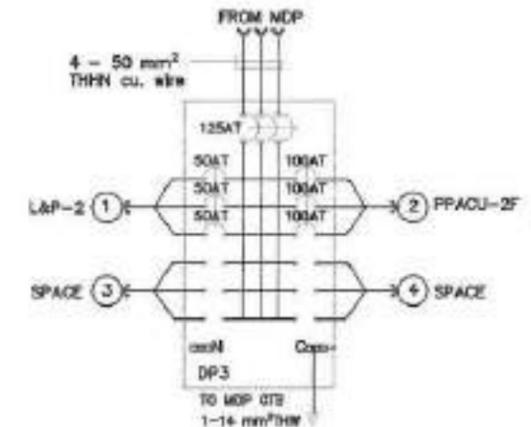
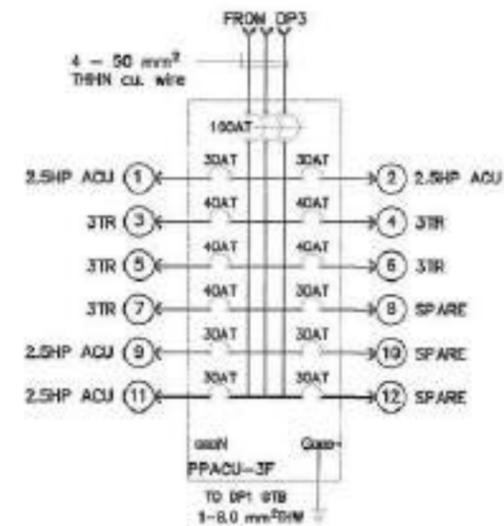
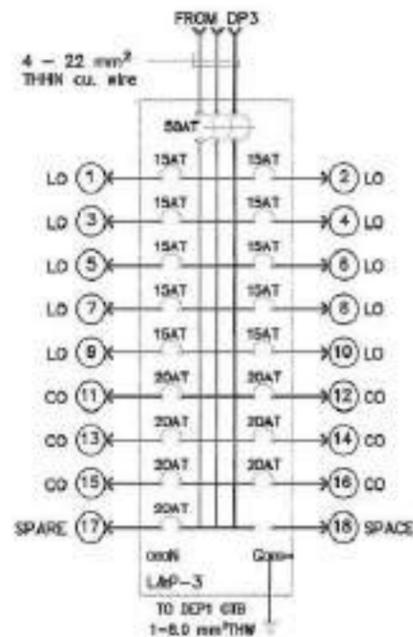
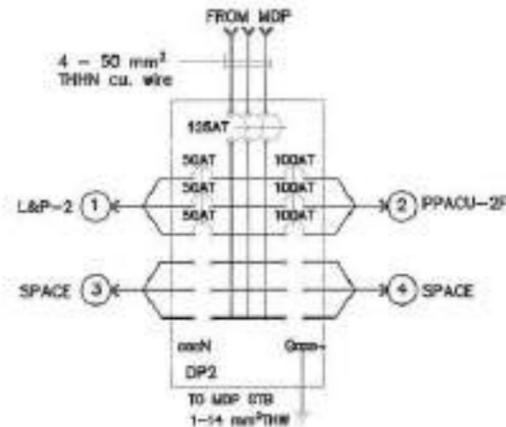
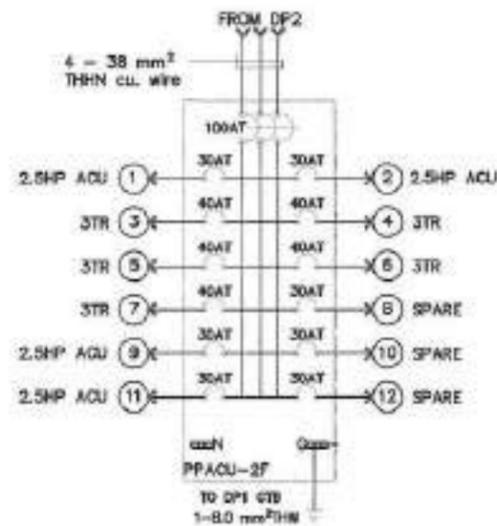
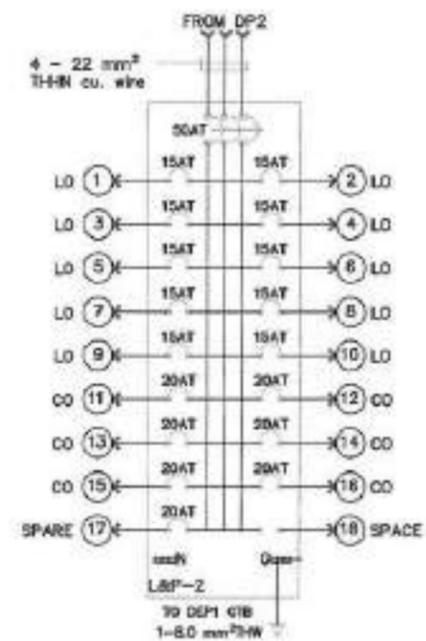
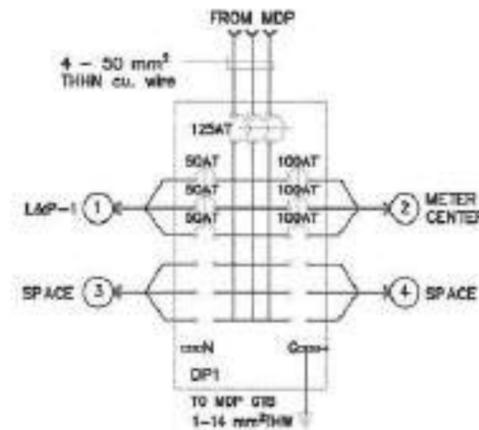
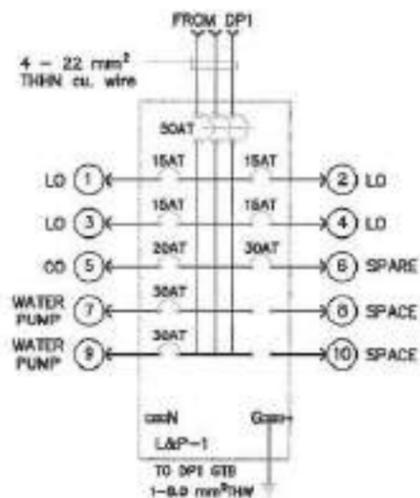
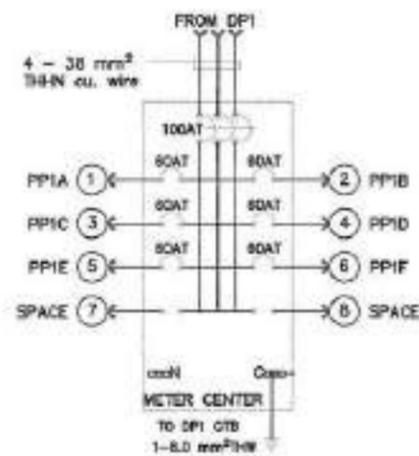
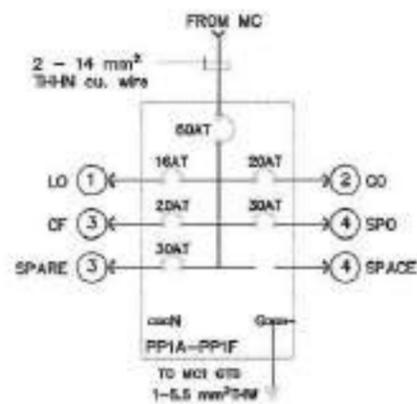
Panel: LIGHTING AND POWER PANEL (LAP)		Feed from: G/T		Voltage: 400V		Main: 100AT, 100AF, 3P, 20 kVc, 400V MCCB							
Location: G/T		Conduit: 25 mm Ø PVC		Frequency: 60		Feeder: 4 - 35 mm ² THHN (3P+N)							
		Enclosure: NEMA3		Phase: 3		Wire: 1							
CIRCUIT NO.	LOAD DESCRIPTION	VOLT	VA	CIRCUIT PROTECTION					SET	FEEDER CONDUCTOR	EGC	RACEWAY	
				AMPS	AT	AF	POLE	SIZE					TYPE
1	8-LIGHTING OUTLET	230	900.00	3.91	36	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN (3P+N)	3.5 mm ² THW	20 mm Ø PVC
2	8-LIGHTING OUTLET 1-EL & 2P+N	230	900.00	3.91	36	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN (3P+N)	3.5 mm ² THW	20 mm Ø PVC
3	8-LIGHTING OUTLET 1-EL & 2P+N	230	900.00	3.91	36	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN (3P+N)	3.5 mm ² THW	20 mm Ø PVC
4	8-LIGHTING OUTLET 1-EL & 2P+N	230	900.00	3.91	36	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN (3P+N)	3.5 mm ² THW	20 mm Ø PVC
5	CONVENIENCE OUTLET	230	400.00	1.74	20	65	1	30	MCB BOLT-ON	1	2 - 3.5 mm ² THHN (3P+N)	3.5 mm ² THW	20 mm Ø PVC
6	SPACE												
7	SPACE												
8	SPACE												
9	SPACE												
10	SPACE												
TOTAL CONNECTED LOAD			3,600.00	15.65	30.98	30.98	3.00						
$I(T) = (3600 VA \times 1.25) / (1.732 \times 400V) = 35.46$													

Panel: UPS		Feed from: BDP		Voltage: 400V		Main: 100AT, 300AF, 3P, 20 kVc, 400V MCCB	
Location: G/T		Conduit: 25 mm Ø PVC					



RISER DIAGRAM
NOT DRAWN TO SCALE

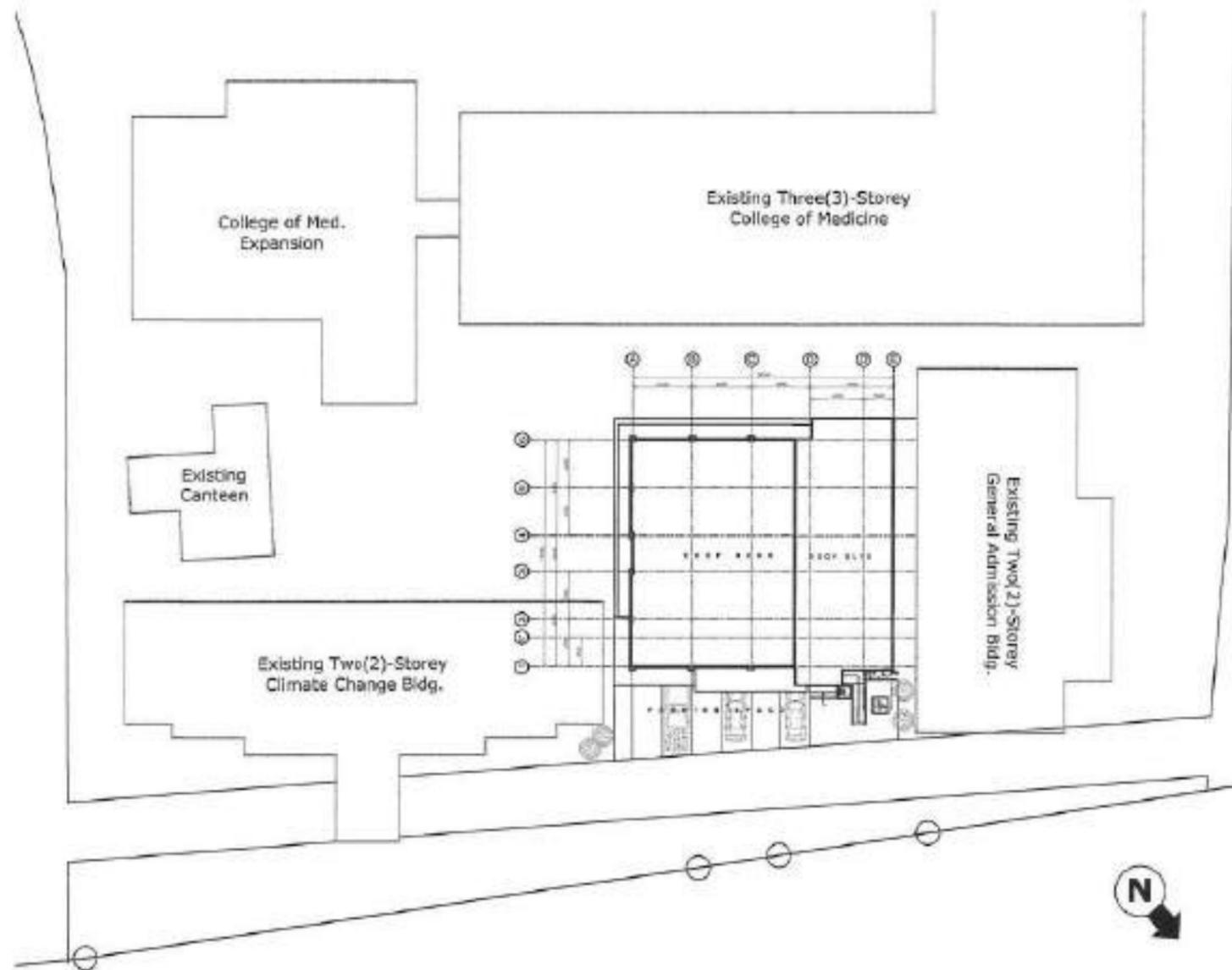
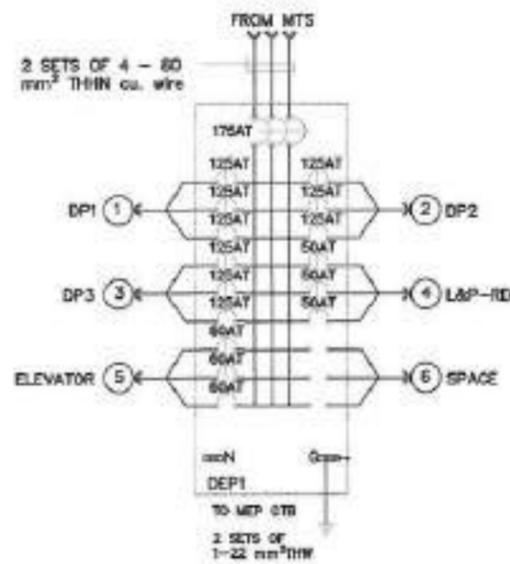
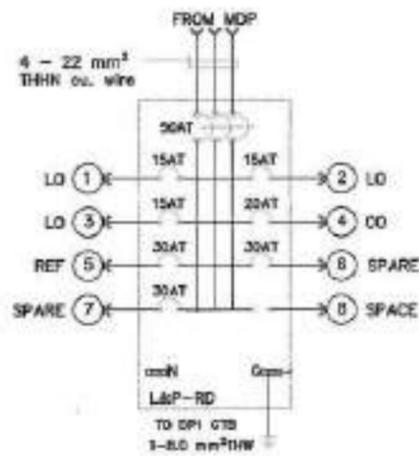
<p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY TEL. NO. (052) 800-4884</p>	PREPARED BY: ENGR. TERRENCE D. DEMATERA ELECTRICAL ENGINEER	PRO. NO. MPOA: PFR NO. 1 DATE: PLACE: TB	PROJECT TITLE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY	DESIGN DATE SHEET CONTENTS AS SHOWN	DATE REVISIONS CHECKED DATE	RECOMMENDING APPROVAL: ENGR. ALVIN B. LUZONG OFFICER	RECOMMENDING APPROVAL: ATTY. ALEX N. NEROSMICENO BSA, COLLEGE OF BSA, PEACE AND PROSPERITY	APPROVED BY: DR. BABY BOY BENJAMIN D. WEBRES III BICOL UNIVERSITY PRESIDENT	SHEET NO.
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POWER SYSTEM ONE-LINE DIAGRAM

NOT DRAWN TO SCALE

<p style="font-size: 8px; margin: 0;">BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI CAMP, LEGAZPI CITY TEL. NO. (053) 829-004</p>	PREPARED BY:	PRC NO.	PROJECT TITLE:	REVISION	DATE	SHEET CONTENTS	DAGD	RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET NO.
	 ENGR. FERNAN D. DEMATERA <small>REGISTERED ELECTRICAL ENGINEER</small>	MPOK 1 PTR NO. 1 DATE: PLACE: TITLE:									



**POWER SYSTEM
ONE-LINE DIAGRAM**

NOT DRAWN TO SCALE

VICINITY MAP

SCALE 1:500 MTS

 <p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY TEL. NO. (052) 809-004</p>	<p>PREPARED BY:</p> <p><i>[Signature]</i> ENGR. FERNAN D. DEMATERA PHYSICAL ENGINEER</p>	<p>PRC NO.:</p> <p>IMPA :</p> <p>PTB NO. :</p> <p>DATE:</p> <p>PLAGE:</p> <p>TR:</p>	<p>PROJECT TITLE:</p> <p>CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY</p> <p>LOCATION: BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY</p>	<p>REVISION:</p> <p>DATE:</p> <p>SHEET CONTENTS:</p> <p>AS SHOWN</p>	<p>DESIGNED:</p> <p>ENGR. ALVIN B. LUTONG DIRECTOR PDMO</p>	<p>RECOMMENDING APPROVAL:</p> <p>ATY. ALDO B. HIPONOCENO DEAN COLLEGE OF MEDICINE AND HEALTH</p>	<p>RECOMMENDING APPROVAL:</p> <p><i>[Signature]</i></p>	<p>APPROVED BY:</p> <p>DR. BABY ROY BENJAMIN D. NERTES III BICOL UNIVERSITY PRESIDENT</p>	<p>SHEET NO.</p> <p>E 32 10 10 51</p>
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GENERAL NOTES :

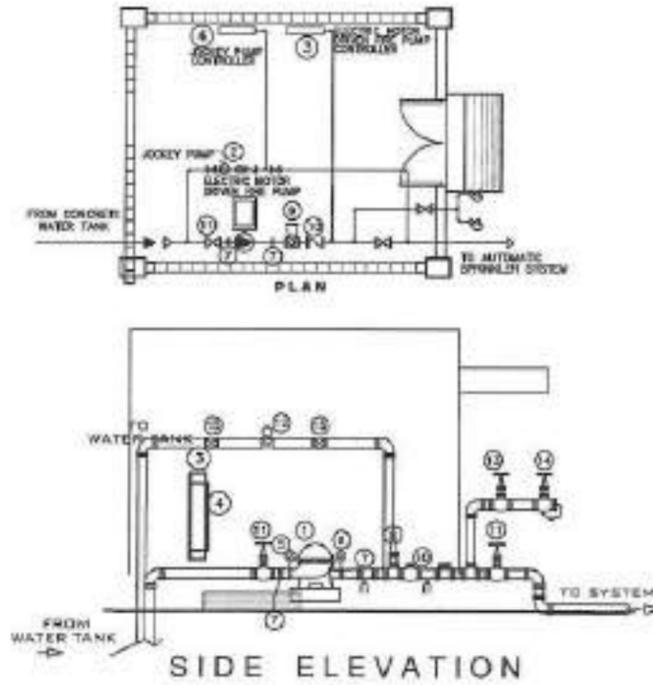
1. MOTORS, GENERATORS AND OTHER ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH NON-COMBUSTIBLE SPLASH PROOF SHIELDS OR HOODS.
2. SPRINKLER HEADS SPACED LESS THAN 1.80 M. (6 FT.) SHALL BE PROVIDED WITH BAFFLES OR DEFLECTORS.
3. FLOOR DRAINS FOR OIL SPILLS SHALL BE PROVIDED IN FLOOR SLAB FOR TRANSFORMER VAULT, BY PLUMBING CONTRACTOR.
4. ALL PORTABLE FIRE EXTINGUISHER (PFE) SHALL BE 10 LBS DRY CHEMICAL UNLESS OTHERWISE SPECIFIED (INSIDE FIRE HOSE CABINETS & COMMON AREAS.)
5. ALL ELECTRICAL MECHANICAL AHU ROOMS TO BE PROVIDED WITH 10 LBS. CO2 TYPE PORTABLE FIRE EXTINGUISHER.
6. TRANSFORMER VAULT SHALL BE PROVIDED WITH 1-65 LBS. WHEELED TYPE CO2 PORTABLE FIRE EXTINGUISHER.

MATERIAL SPECIFICATIONS :

FIRE LINES FIRE LINES SHALL BE BLACK IRON (B.I.) PIPES

NOTES:

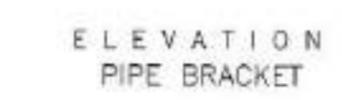
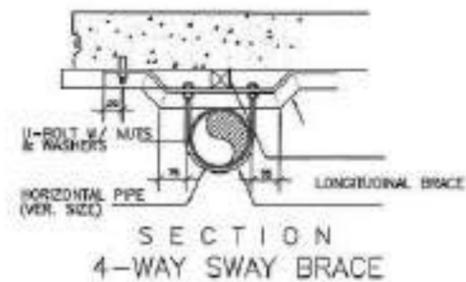
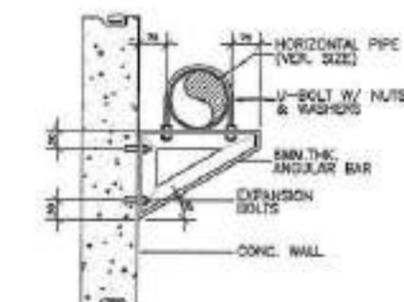
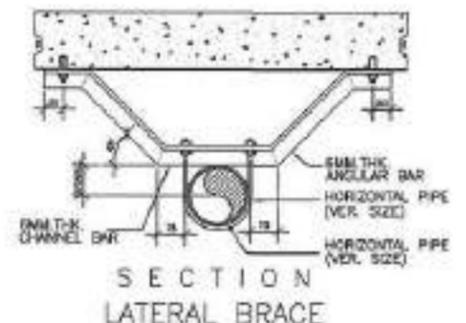
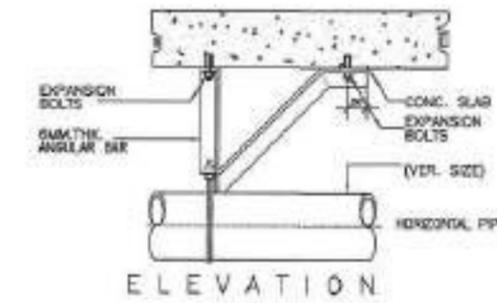
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE OTHER MECHANICAL SERVICES DRAWINGS, ELECTRICAL ARCHITECTURAL,
2. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
3. FIRE FIGHTING PIPES SHALL BE BLACK STEEL SCH 40 AS PES ASTM A53, UNDER GROUND PIPES SHALL BE CPVC SCH 80 WITH THRUST BLOCKS AS PER NFPA
4. HYDROTEST ALL FIRE WATER PIPING SYSTEM TO 150% OF THE WORKING PRESSURE
5. SPRINKLER LOCATIONS GIVEN, ARE SUBJECT TO CHANGES EXACT LOCATION AND OF SPRINKLER TO BE DETERMINED DURING SHOP DRAWING & FINAL REFLECTED CEILING AND IN COORDINATION WITH OTHER PROMIONS (DUCTWORK, LIGHT FIXTURES... ETC)
6. THE INSTALLATION AND TESTING PROCEDURE OF THE FIRE FIGHTING SYSTEMS IN THIS DRAWING SHALL BE IN ACCORDANCE WITH NFPA LATEST EDITION.
7. THE PIPING NETWORK SHALL BE INSTALLED SO THAT THE SYSTEM MAY BE DRAINED.
8. ALL PIPES PASS THRU WALL OR SLAB SHALL BE THRU PIPE SLEEVES.
9. ALL EXPOSED PIPES SHALL BE PROPERLY INSULATED ACCORDING TO SPECIFIED INSULATING MATERIAL.
10. ALL PIPE SIZES ARE IN MILLIMETER AND ARE FOR INTERNAL DIAMETER OF PIPE.
11. THE PUMPS MOTOR SIZE TO BE VERIFIED AND ADJUSTED IF NECESSARY BY CONTRACTOR UPON FINAL SELECTION OF EQUIPMENT, AND COMPLETION OF SHOP DRAWINGS.
12. PROVIDE EXPANSION LOOP/ CONNECTION WHERE NECESSARY.
13. ALL FIRE FIGHTING PIPES SHALL BE GROUNDED
14. FIRE HOSE CABINET DROP LINES LOCATION SHALL BE COORDINATED WITH OTHER SERVICES AT SITE.
15. THE PIPELINES SHOULD BE SUPPORTED IN PROPER INTERVALS TO AVOID STRESSES IN THE PIPELINES.
16. ALL EMBEDDED PIPELINES MUST PASS THE REQUIRED TEST BEFORE CLOSING THE TRENCH OR WALL.
17. ALL FIRE FIGHTING PIPES SHALL BE PAINT WITH TWO LAYER OF EPOXY AND ONE LAYER OF FIRE FIGHTING PIPES RED COLOR
18. ALL SUPPORTS AND HANGERS TO BE IN ACCORDANCE WITH NFPA 13.
19. SPRINKLERS IN PUBLIC AND COMMON AREAS WITH FINISHED CEILING ROOMS SHALL BE FULLY RECESSED, CONCEALED TYPE WITH FACTORY FINISHED COVER PLATES AS DIRECTED BY ARCHITECT.



- 1 - ELECTRIC MOTOR DRIVEN FIRE PUMP, 250 GPM
- 2 - JOCKY PUMP
- 3 - ELECTRIC MOTOR DRIVEN FIRE PUMP CONTROLLER
- 4 - JOCKY PUMP CONTROLLER
- 5 - SUCTION PRESSURE GAUGE, 0 - 300 PSIG
- 6 - DISCHARGE PRESSURE, 0 - 300 PSIG
- 7 - FLEXIBLE COUPLING
- 8 - RELIEF VALVE
- 9 - WASTE COVE
- 10 - CHECK VALVE, 15MM Ø
- 11 - CONTROL VALVE, OS&Y, 150 MM
- 12 - FLOW METER, 100 MM
- 13 - TEST CONTROL VALVE, OS&Y, 150 MM
- 14 - HOSE VALVE W/ CAP & CHAIN, 65MM Ø
- 15 - TEST LINE VALVE, 100 MM
- 16 - CHECK VALVE, 40MM Ø
- 17 - GATE VALVE, 40MM Ø
- 18 - CHECK VALVE W/ DRIPICE, 15MM Ø
- 19 - BALL VALVE, 15MM Ø
- 20 - TEE W/ PLUG, 15MM Ø

ABBREVIATION:

- DSP DRY STAND PIPE
- AFSS AUTOMATIC FIRE SPRINKLER SYSTEM
- ITC INSPECTOR TEST CONNECTION
- PRV PRESSURE RELIEF VALVE
- FCV FLOOR CONTROL VALVE
- WFS WATER FLOW SWITCH
- FHV FIRE HOSE VALVE
- (OS&Y) GV (OUTSIDE & YONE) GATE VALVE
- FHV FIRE HOSE VALVE
- FHC FIRE HOSE CABINET
- FC/VC FLEXIBLE CONNECTOR/VICTALUIC COUPLING
- ACV ALARM CHECK VALVE
- CV CHECK VALVE
- GV GATE VALVE
- DL DRAIN LINE
- RN RISER NIPPLE



SCHEDULE OF PIPE BRACKET/BRACING

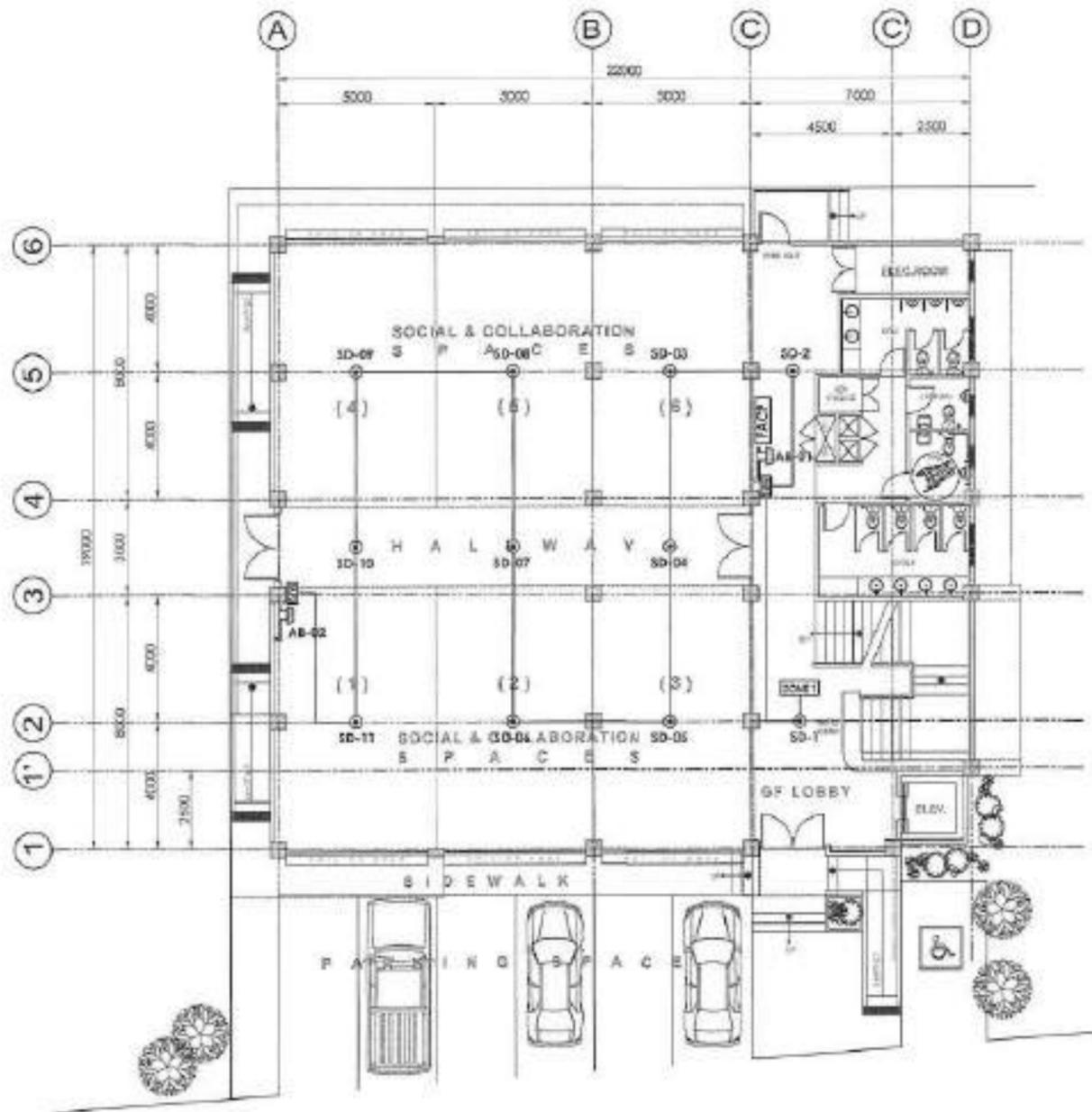
PIPE SIZE	U-BOLT DIA	ANGLE SIZE	EXPANSION BOLT
95	10	90 X 90	10
85	10	50 X 80	10
75	10	50 X 50	10
100	12	85 X 85	12

PUMP EQUIPMENT SCHEDULE

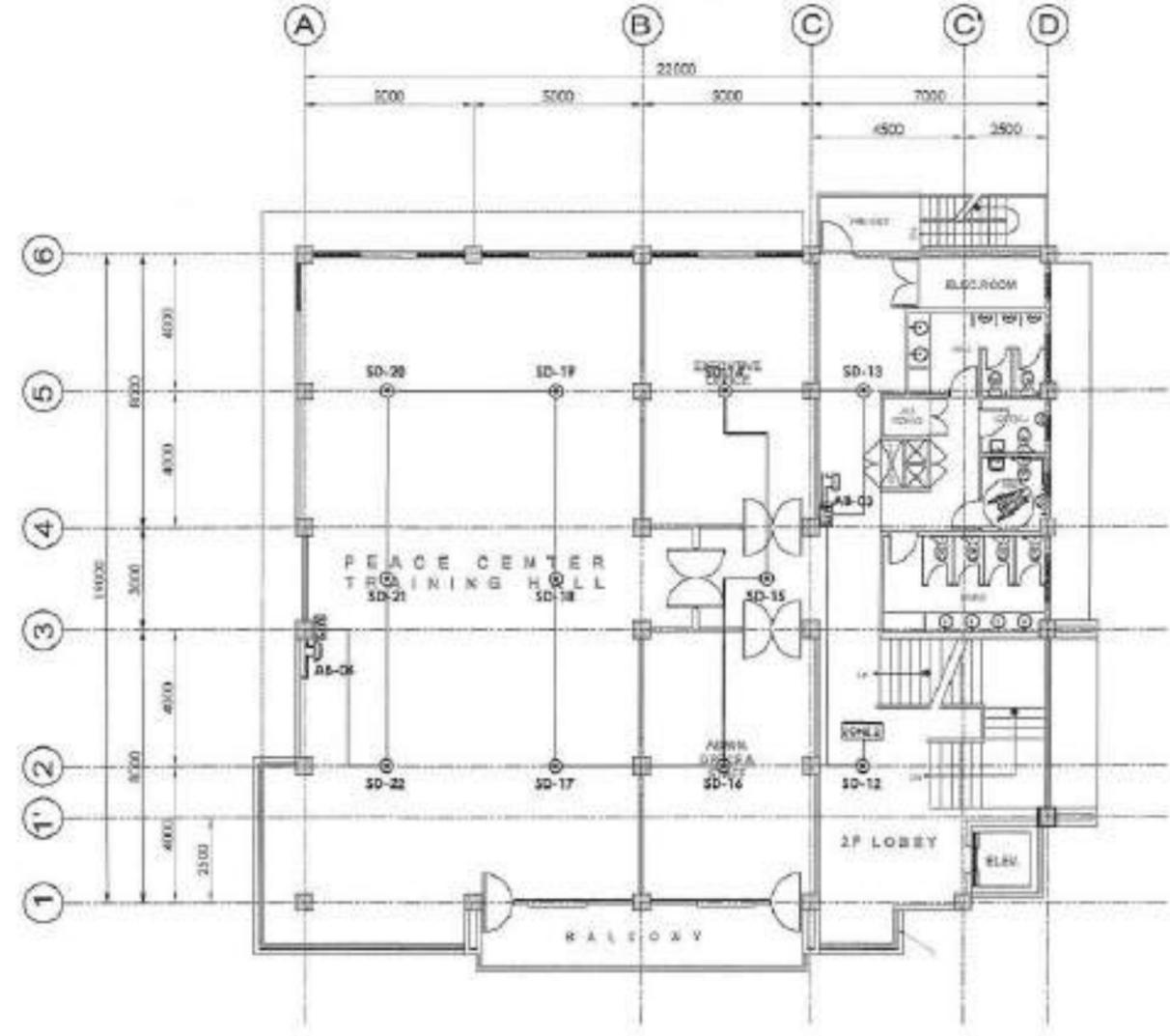
PUMP TYPE	DESCRIPTION	EQUIPMENT RATING CAPACITY (GPM)	HEAD (Ft)	POWER (HP)	DRIVER	REMARKS
ELECTRICAL PUMP	ELEC. DRIVEN HORIZONTAL CENTRIFUGAL FIRE PUMP	350	80	20	20 HP, 230V, 3Ø, 65 1/2 AC	COMPLETE WITH CONTROLLERS AND ACCESSORIES
JOCKY PUMP	ELEC. DRIVEN JOCKY FIRE PUMP	17.5	90	1.5	1.5 HP, 230V, 1Ø, 65 1/2 AC	COMPLETE WITH CONTROLLERS AND ACCESSORIES

<p>BCOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BCOL UNIVERSITY, LEGAZPI AVENUE, LEGAZPI CITY TEL. NO. 3551 800-601</p>	PREPARED BY: ENGR. DARWIN M. MURILLO	PROJECT TITLE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY	REVISION: _____ DATE: _____ SHEET NO.: _____ OF _____ DATE: _____	RECOMMENDING APPROVAL: ENGR. ARVIN B. LUZONG	RECOMMENDING APPROVAL: ARTY ALEX P. NECOCHEO	RECOMMENDING APPROVAL: PROF. SONNIE A. RAMOS, CPA, MBA	APPROVED BY: DR. BABY BOY BENJAMIN D. NEERES U.	DATE: _____
	CHECKED BY: _____	PROJECT NO.: _____	LOCATION: BCOL UNIVERSITY LEGAZPI REFL. LEGAZPI CITY	DRAWN BY: _____	PROJECT NO.: _____	PROJECT NO.: _____	PROJECT NO.: _____	PROJECT NO.: _____
	DESIGNED BY: MECHANICAL ENGINEER _____	PROJECT NO.: _____	PROJECT NO.: _____	PROJECT NO.: _____	PROJECT NO.: _____	PROJECT NO.: _____	PROJECT NO.: _____	PROJECT NO.: _____
	PROJECT NO.: _____	PROJECT NO.: _____	PROJECT NO.: _____	PROJECT NO.: _____	PROJECT NO.: _____	PROJECT NO.: _____	PROJECT NO.: _____	PROJECT NO.: _____

M 33
51

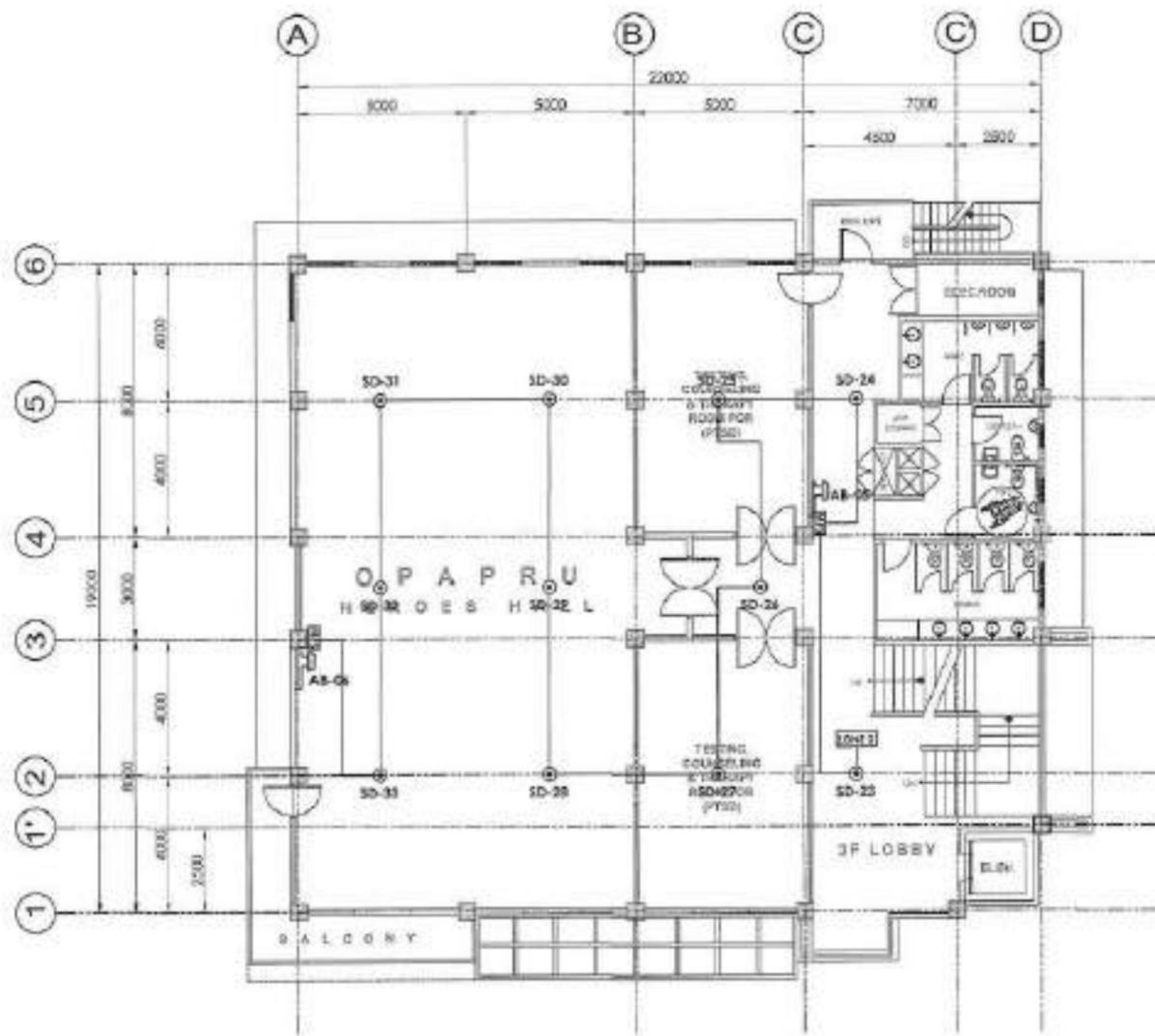


GROUND FLR.
FIRE DETECTION ALARM SYSTEM
 SCALE 1:125

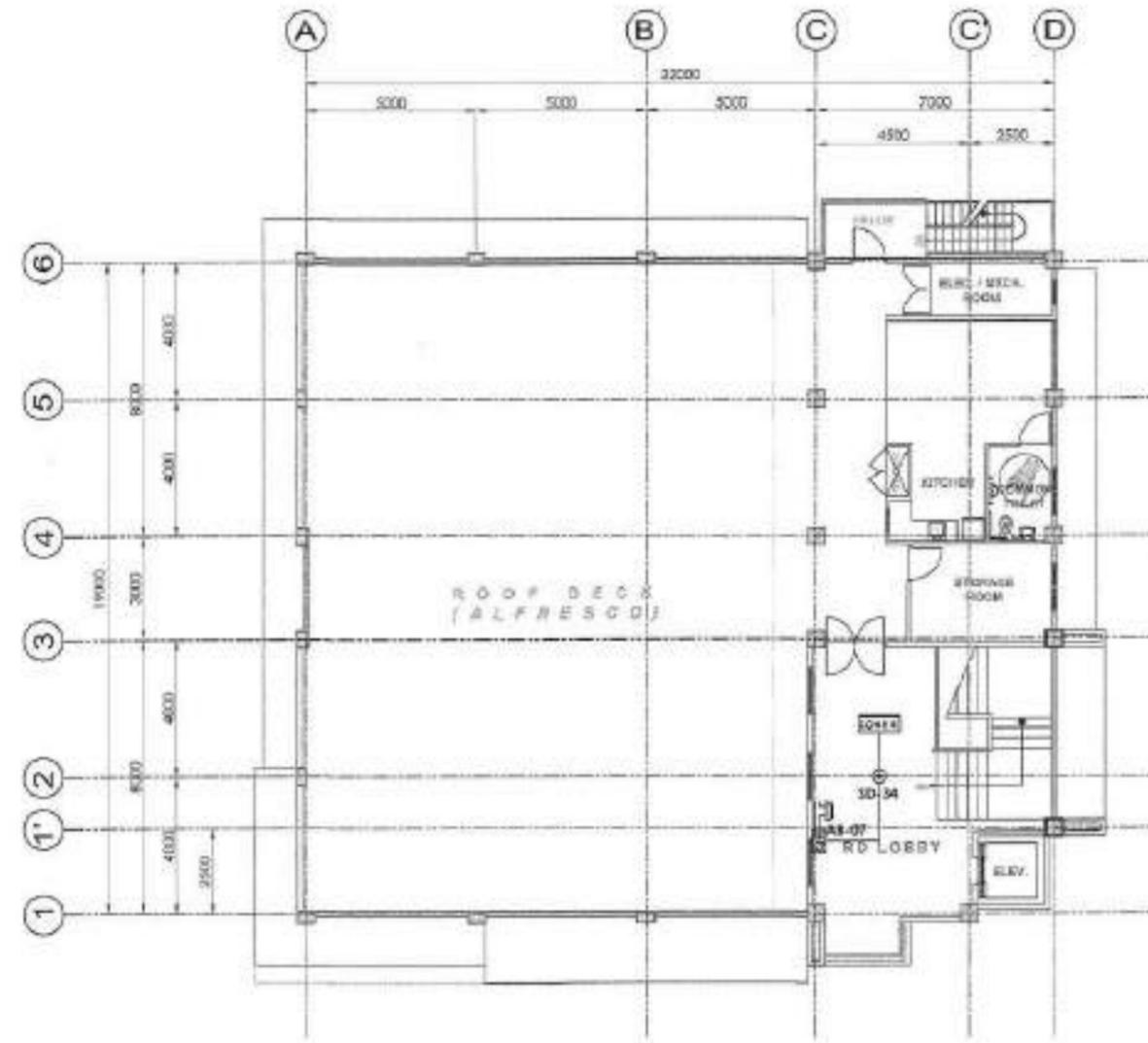


SECOND FLR.
FIRE DETECTION ALARM SYSTEM
 SCALE 1:125

<p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI AVENUE, LEGAZPI CITY TEL. NO. 052 800-4501</p>	DESIGNED BY: ENGR. DARWIN M. MURILLO REGISTERED CIVIL ENGINEER	TITLE: W/S NO.: DATE: SCALE: SHEET NO.:	PROJECT TITLE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY LOCATION: BICOL UNIVERSITY, LEGAZPI WEST, LEGAZPI CITY	DESIGNED BY: DATE: CHECKED BY: DATE:	DRAWN BY: DATE: CHECKED BY: DATE:	PROJECT NO.: SHEET NO.: TOTAL SHEETS:	RECOMMENDING OFFICIAL: ENGR. ALVIN B. LUZONG PROJECT MANAGER	RECOMMENDING OFFICIAL: ATTY. ALEX B. NERON LEGAL COUNSEL	RECOMMENDING OFFICIAL: PROF. SONNIE A. RAMOS, CPA, MBA YES PRESIDENT OF PLANNING & DEVELOPMENT	APPROVED BY: DR. BABY BOY BENJAMIN D. REYES III BICOL UNIVERSITY PRESIDENT	SHEET NO.: M 38 51
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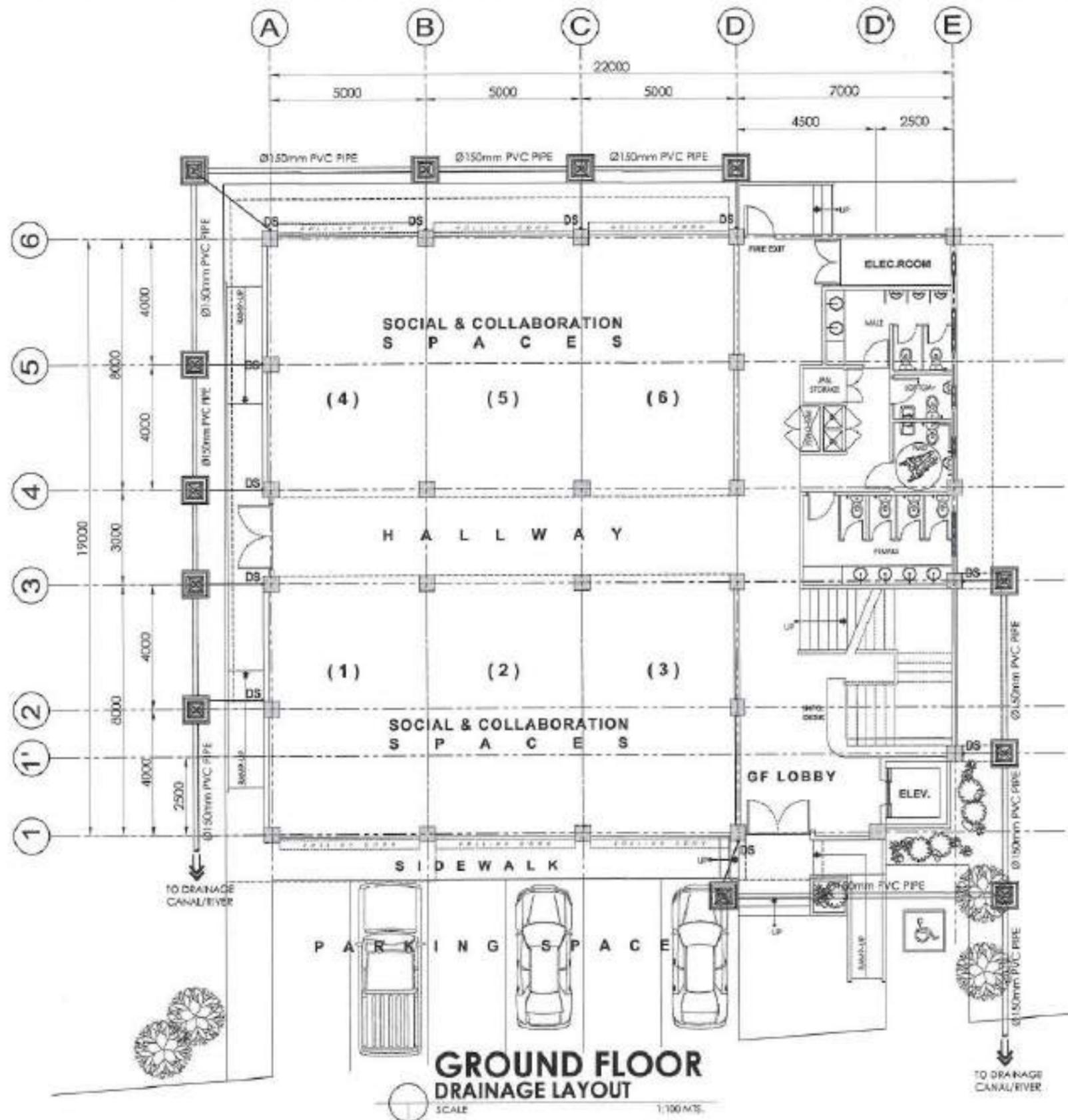


THIRD FLR.
FIRE DETECTION ALARM SYSTEM
 SCALE 1:100 H/S.

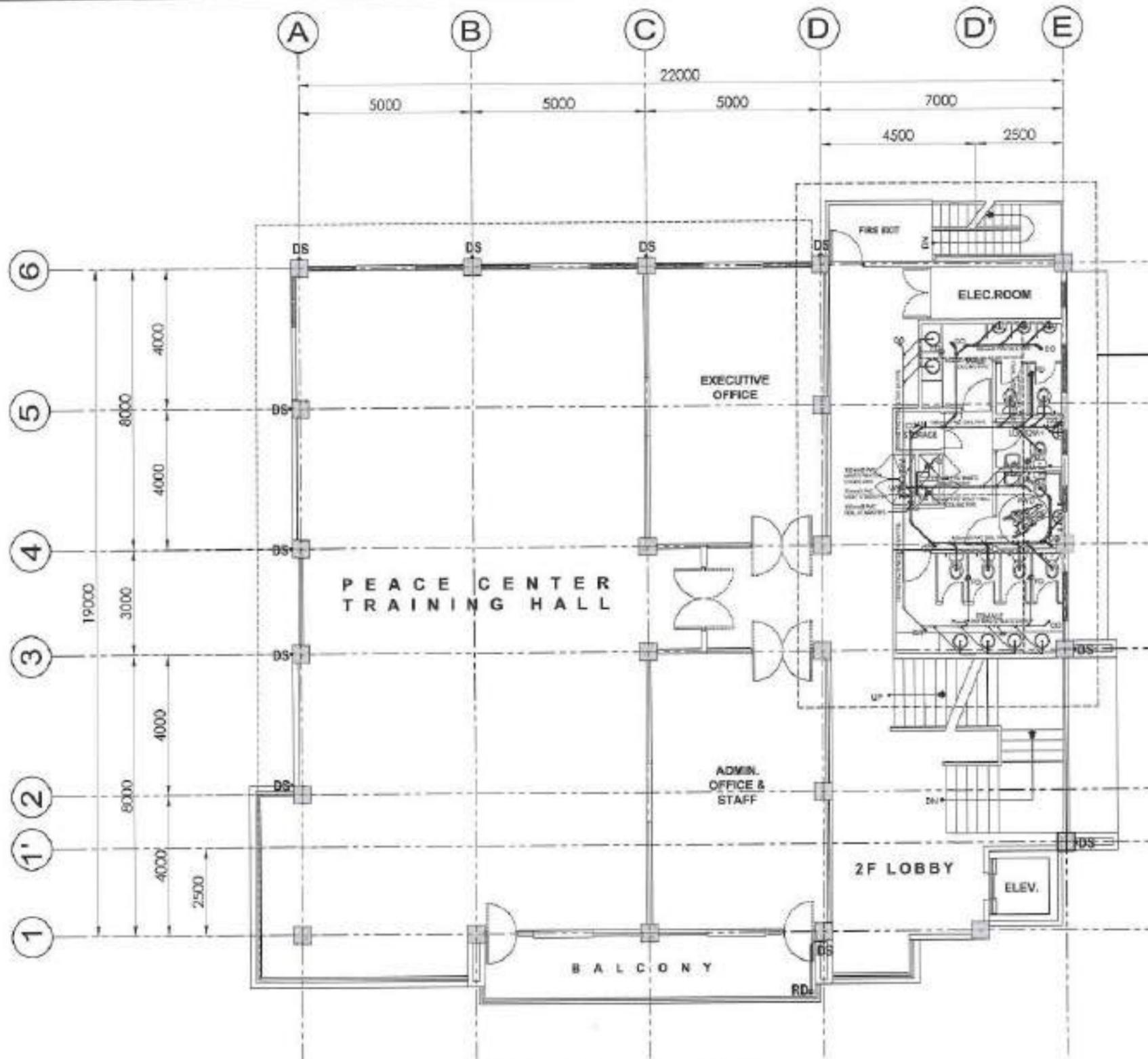


ROOF DECK
FIRE DETECTION ALARM SYSTEM
 SCALE 1:100 H/S.

<p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY ROAD WEST LEGAZPI CITY TEL. NO. (052) 891-624</p>	PREPARED BY: ENGR. DARWIN M. MURILLO REGISTERED ELECTRICAL ENGINEER	PROJECT TITLE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY	REVISION DATE SHEET NO.	CHECKED BY: ENGR. ALVIN B. LUZONG REGISTERED PROFESSIONAL ENGINEER	RECOMMENDING APPROVAL: ADY. ALY A. BERNARDO DIVISION OFFICIAL FOR PLANNING & DEVELOPMENT	RECOMMENDING APPROVAL: PROF. SONNIE A. RAMOS, CPA, MBA VICE PRESIDENT FOR PLANNING & DEVELOPMENT	APPROVED BY: DR. BABY BOY BENJAMIN D. HERRERA III BICOL UNIVERSITY PRESIDENT	SHEET NO.:
	PROJECT NO.: REGION: RA OFFICE: DATE: PLACE:	LOCATION: BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY	AS SHOWN	DATE:	CHECKED BY:	RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:

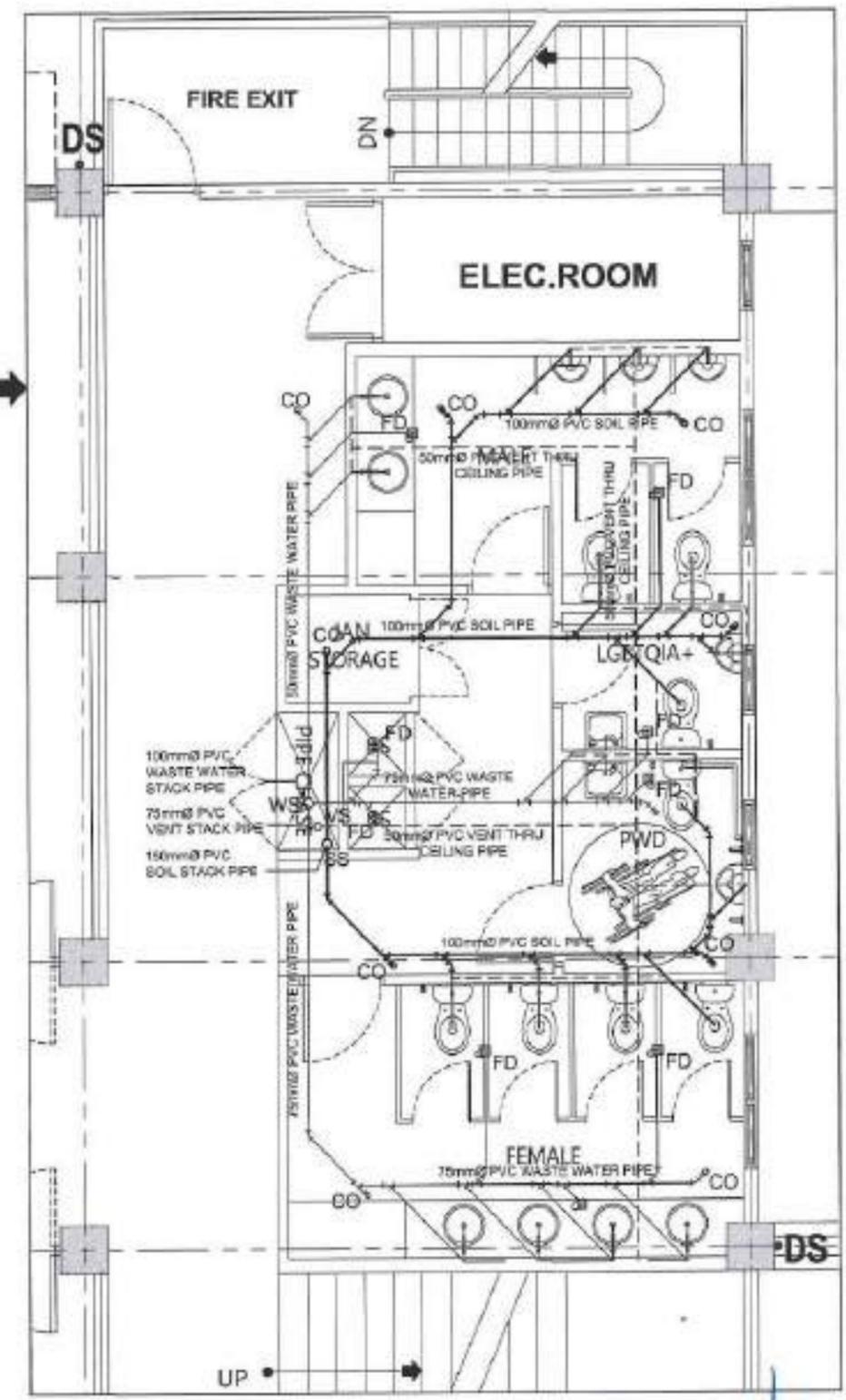


GROUND FLOOR DRAINAGE LAYOUT
SCALE 1:100 N.T.S.

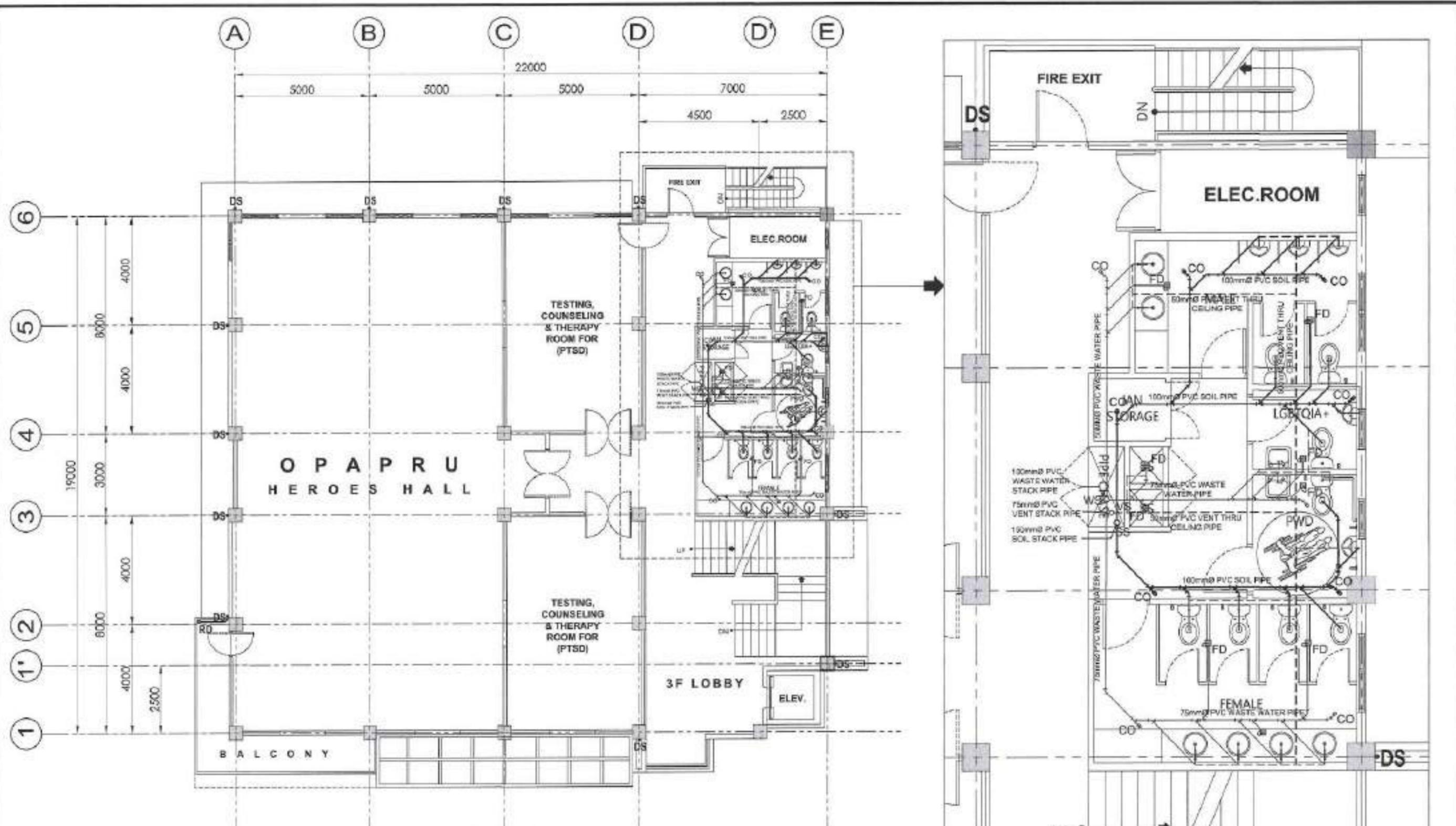


**SECOND FLOOR
SANITARY & DRAINAGE LAYOUT**

SCALE 1:100 MTS.



<p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY TEL. NO. 052 804004</p>	DESIGNED BY: AL ELVIRO J. APDUA, RMP DESIGNED FOR: WATER PLUMBING	PROJECT NO.: PROJECT TITLE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY LOCATION: BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY	REVISION: DATE: SHEET NO. OF SHEETS: CASE NO.: DESIGNED BY: CHECKED BY: DATE:	RECOMMENDING APPROVAL: ENGR. ALVIN B. LUIZONG DESIGNER	RECOMMENDING APPROVAL: ATTY. AIEL B. REPOMUCENO LEGAL COUNSEL	RECOMMENDING APPROVAL: PROF. SONNIE A. RAMOS, CPA, MBA VICE PRESIDENT FOR TRAINING & DEVELOPMENT	APPROVED BY: DR. BABY BOY BENJAMIN D. NIERRS II BICOL UNIVERSITY PRESIDENT	SHEET NO.:
	<p>REVISIONS:</p>							

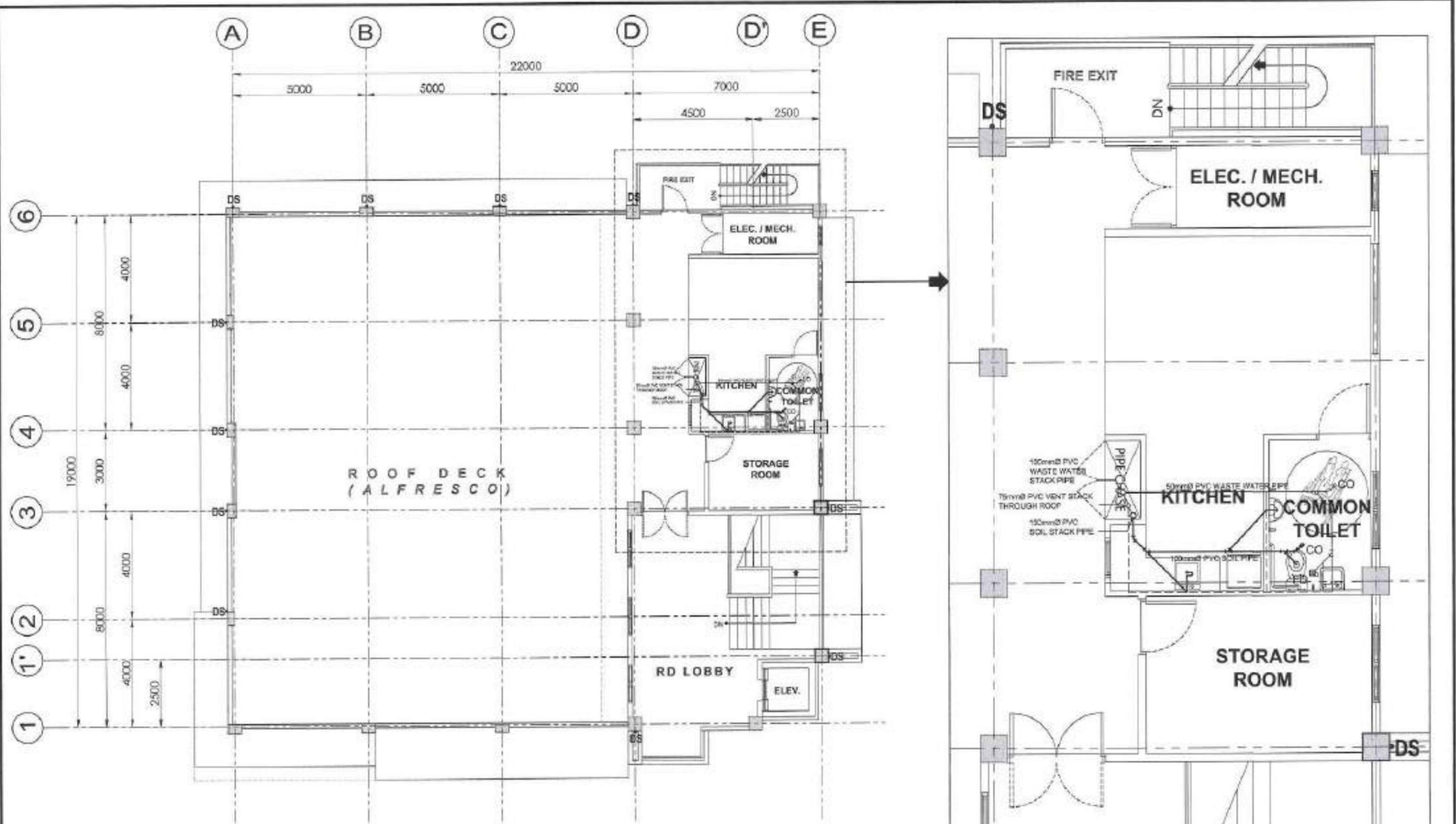


**THIRD FLOOR
SANITARY & DRAINAGE LAYOUT**



SCALE 1:100 MTS.

<p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY TEL. NO. (052) 804-004</p>	PREPARED BY: <p>AR. ELVIRIO T. APUYA, RMP</p>	PROJECT TITLE: <p>CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY</p>	REVISIONS: NO. DATE BY COMMENTS 01 15/04/2021 AS PLANNED	RECOMMENDING APPROVAL: <p>ENGR. ALVIN B. LUZONG, RPE, RPS, RPSM, RPSM</p>	RECOMMENDING APPROVAL: <p>PROF. SONNIE A. RAMOS, CPA, MBA</p>	APPROVED BY: <p>DR. BABY BOY BENJAMIN D. NEBRES III</p>	SHEET NO.: <p>P 43 4 51</p>
	DISCIPLINARY: MASTER PLUMBER	LOCATION: BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY	DATE: 15/04/2021	PROJECT NO.: BICOL/2020/001/001/001/001	OFFICE: BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY	POSITION: PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE	BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY

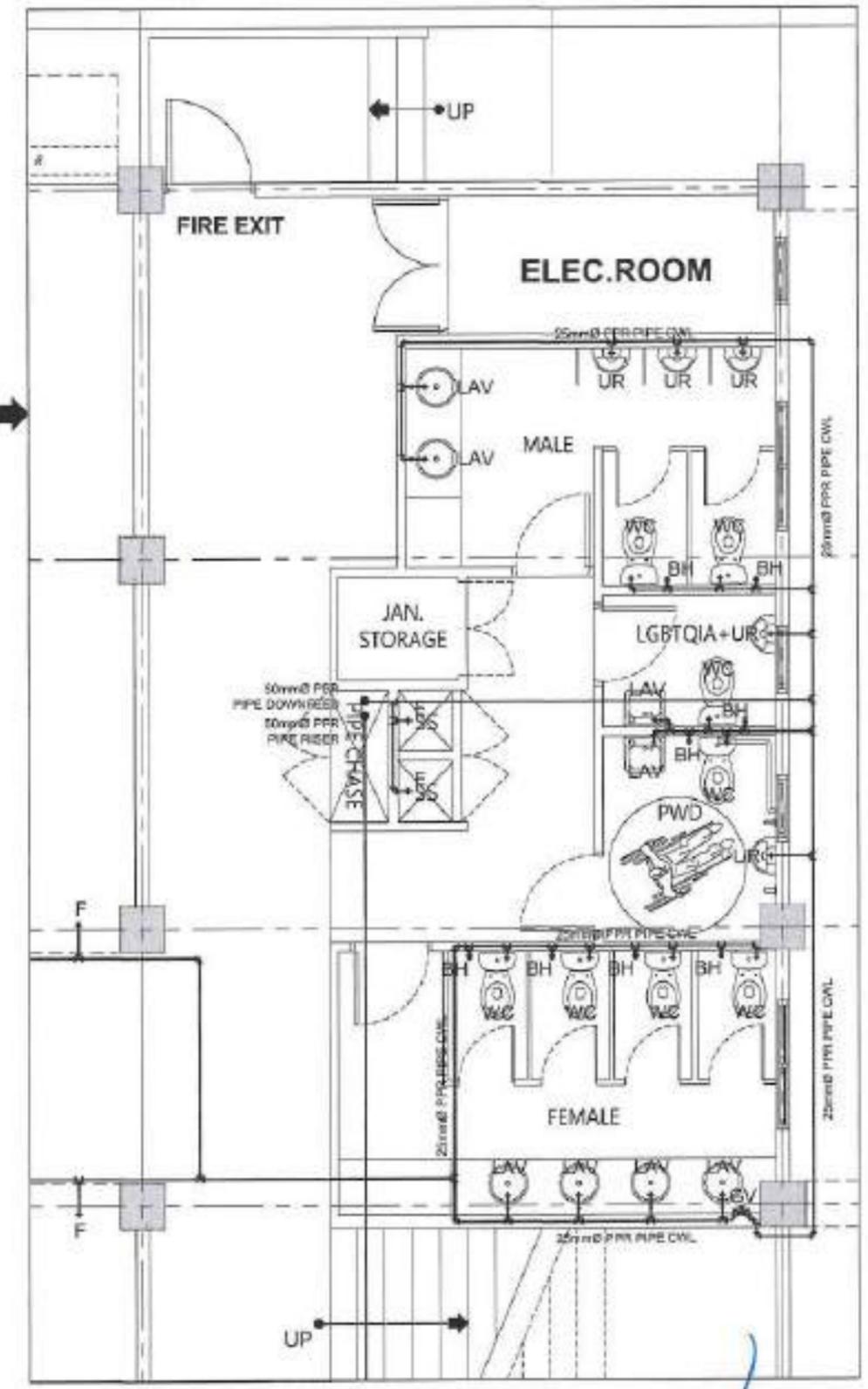
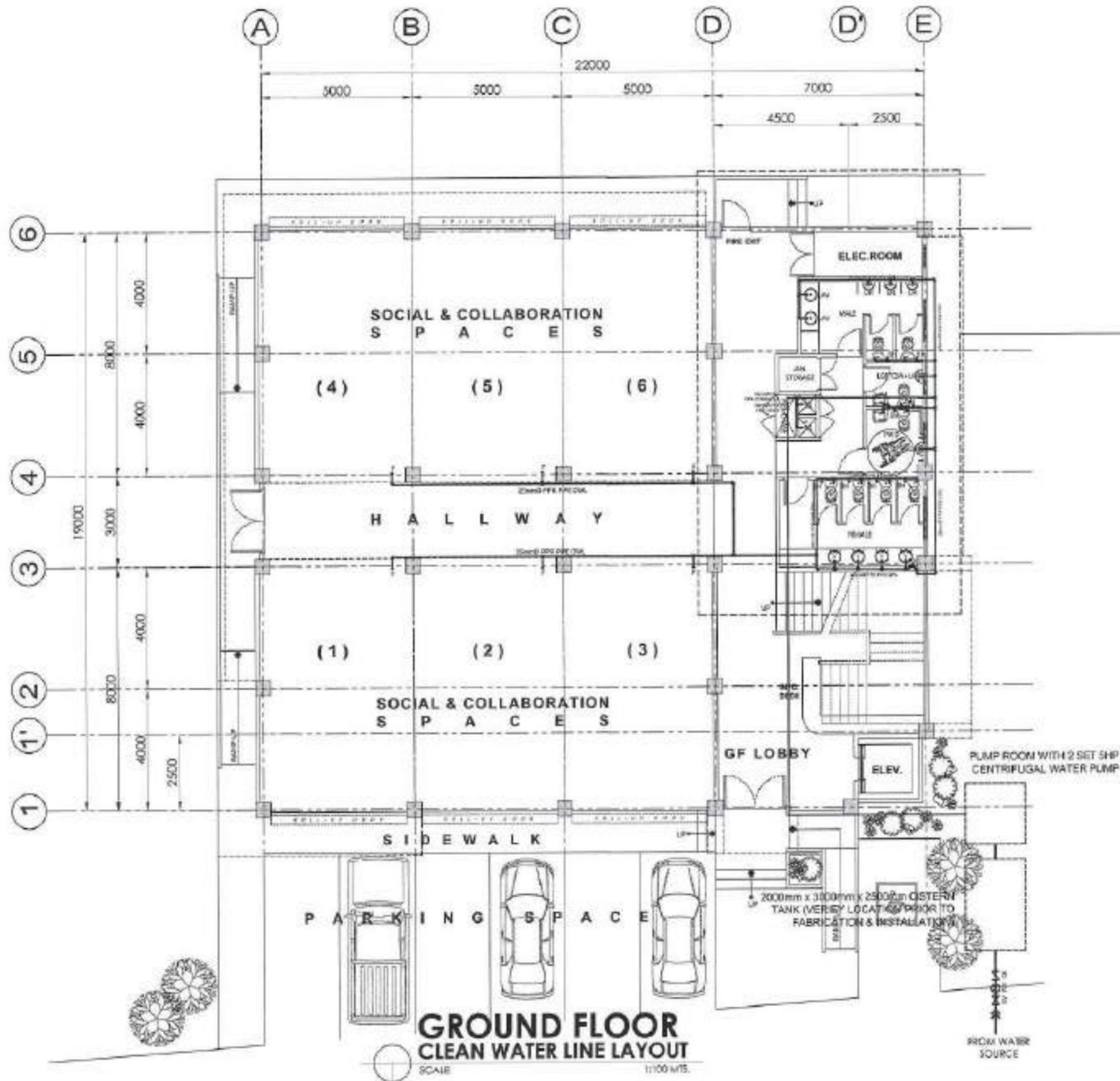


**ROOF DECK
SANITARY & DRAINAGE LAYOUT**



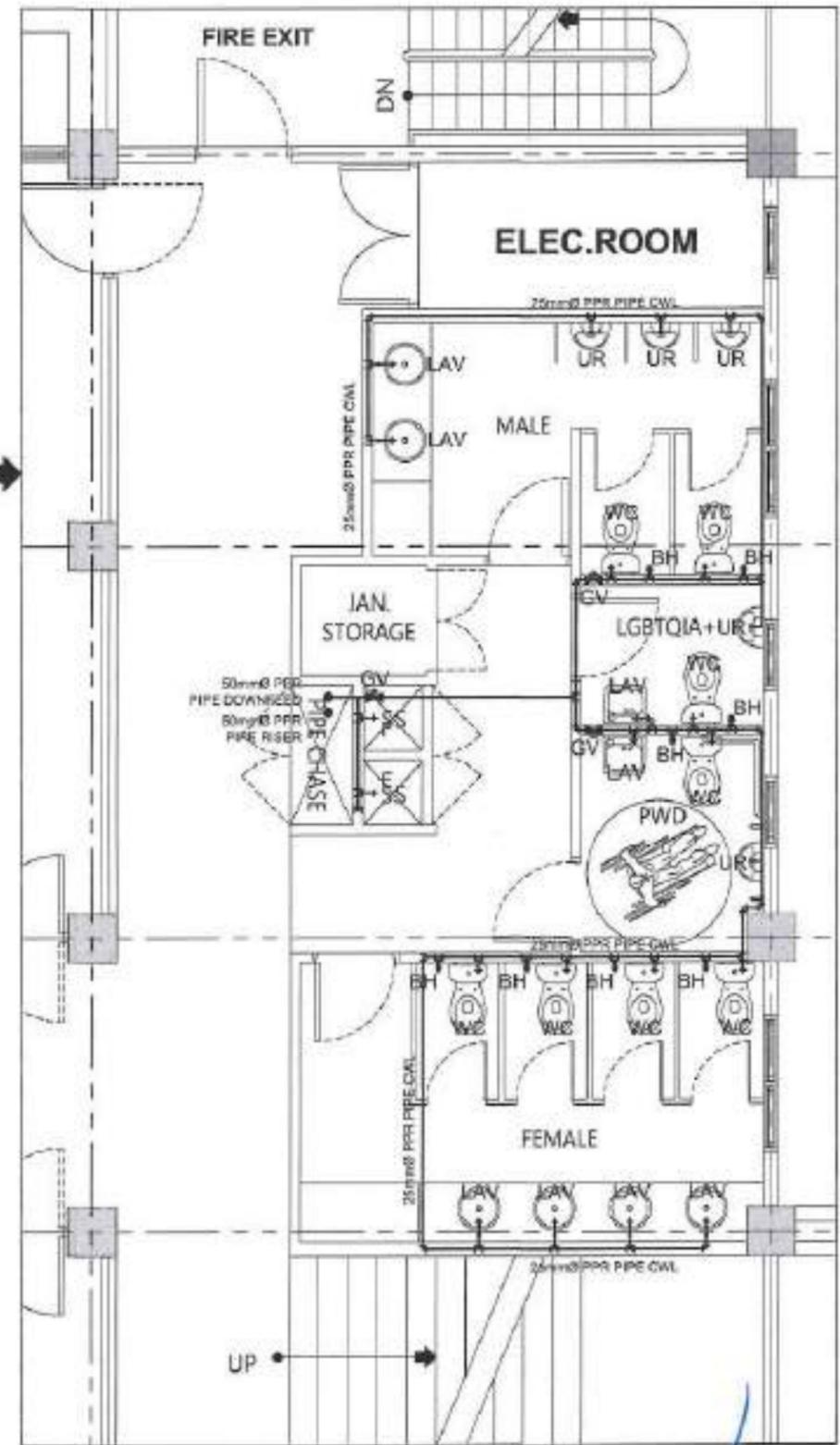
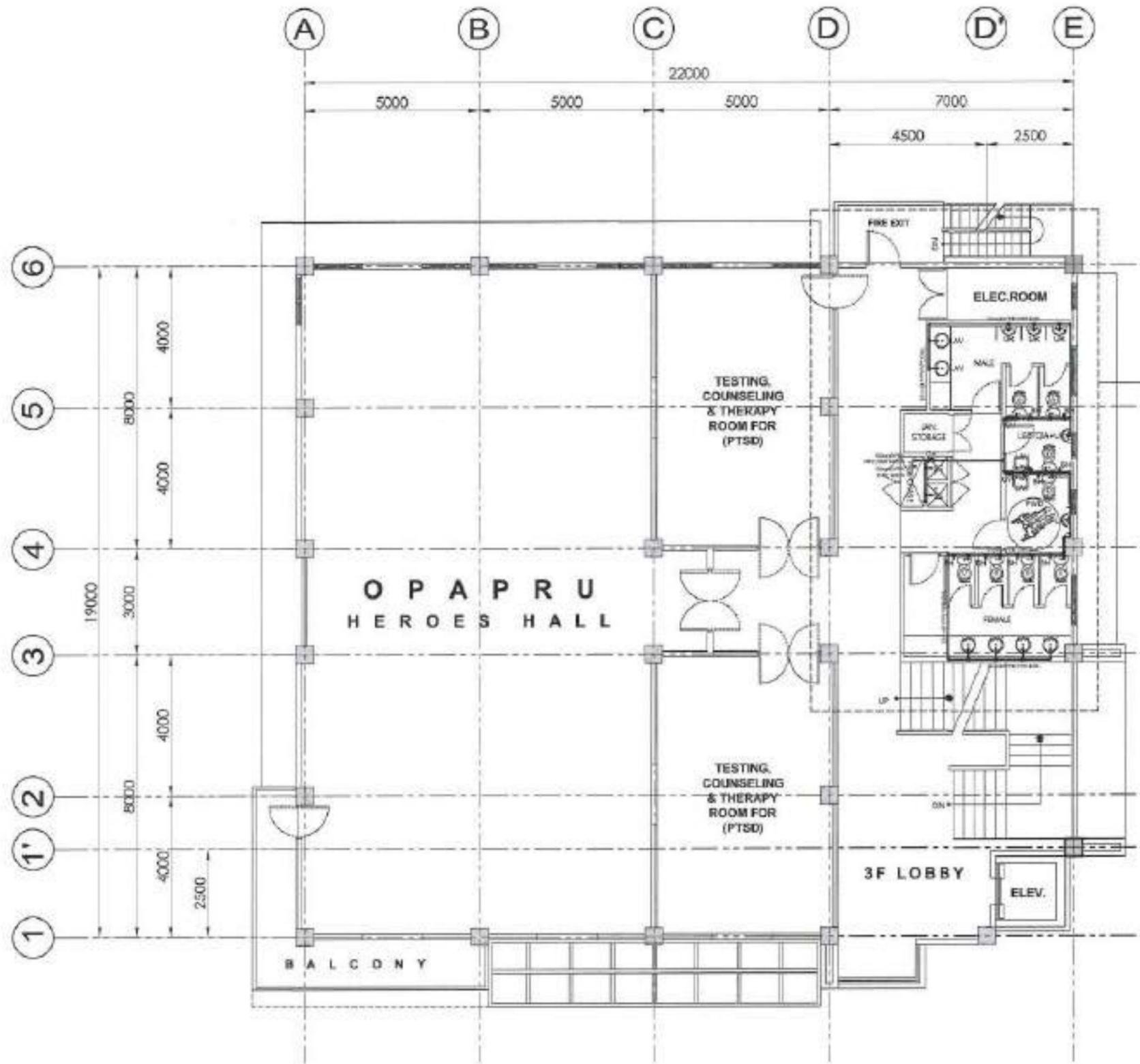
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 <p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY (EGAR) WEST, LEGAZPI CITY TEL. NO. (052) 850434</p>	PREPARED BY:  AR. ELVIRO T. APUYA, RMP DESIGNATED MECHANICAL ENGINEER	REVISION: NO. 01 DATE: 05/12/2018 BY: [Signature] CHECKED: [Signature] DATE: 05/12/2018	PROJECT TITLE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY	REVISION: NO. 01 DATE: 05/12/2018 BY: [Signature] CHECKED: [Signature] DATE: 05/12/2018	SHEET COORDINATE: AS SHOWN	CAD: [Signature]	RECORDING APPROVAL:  ENGR. ALVIN B. LUZONG DIRECTOR	RECORDING APPROVAL:  ATTY. ALEX S. NEPOMUCENO POAO	RECORDING APPROVAL:  PROF. SONNIE A. RAMOS, CPA, MBA VICE PRESIDENT FOR PLANNING & DEVELOPMENT	APPROVED BY:  DR. BABY BOY BENJAMIN D. NEBRES III BICOL UNIVERSITY VICE-CHANCELLOR	SHEET NO.: 
	<p>  </p>										



**GROUND FLOOR
CLEAN WATER LINE LAYOUT**
SCALE 1:100 MTS.

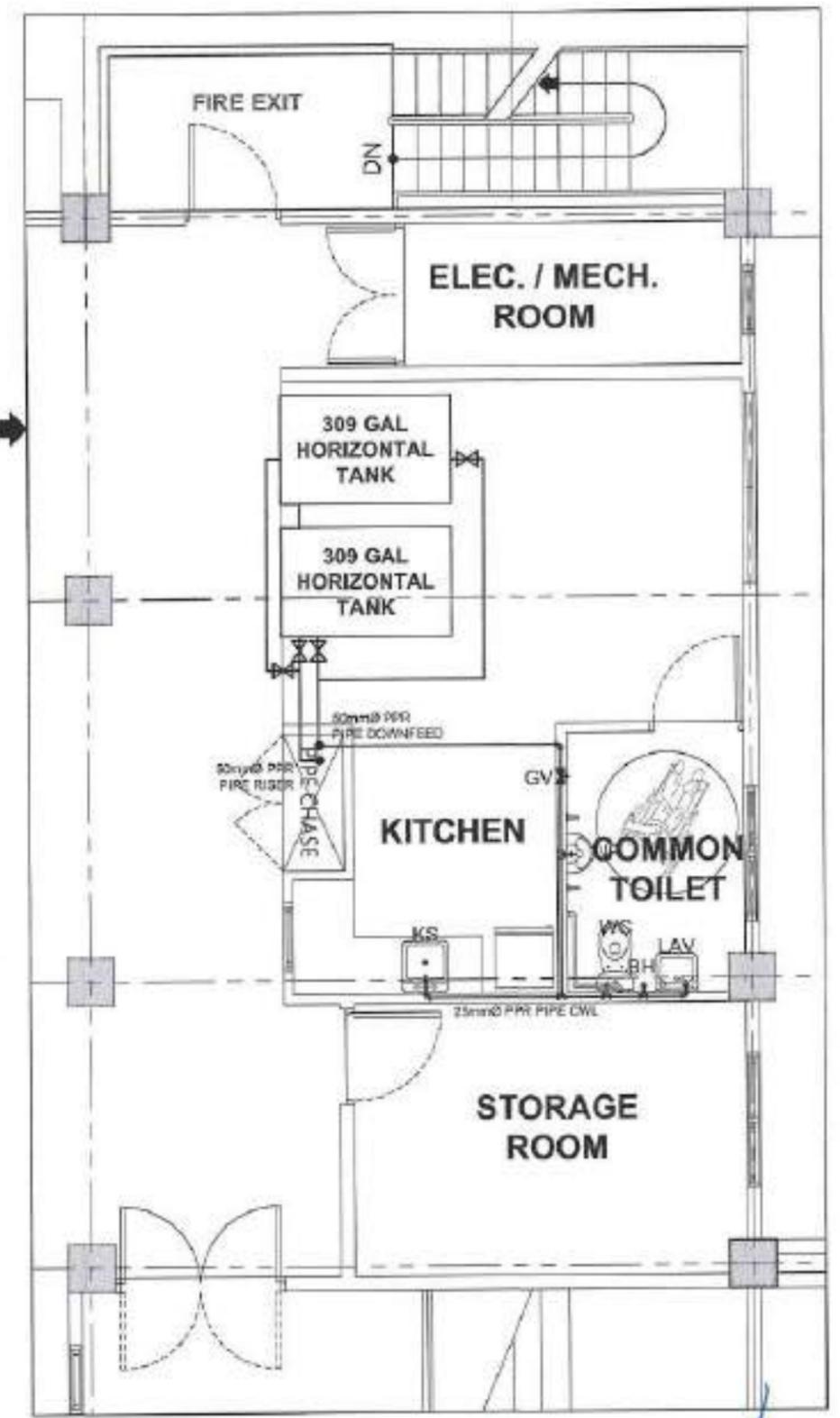
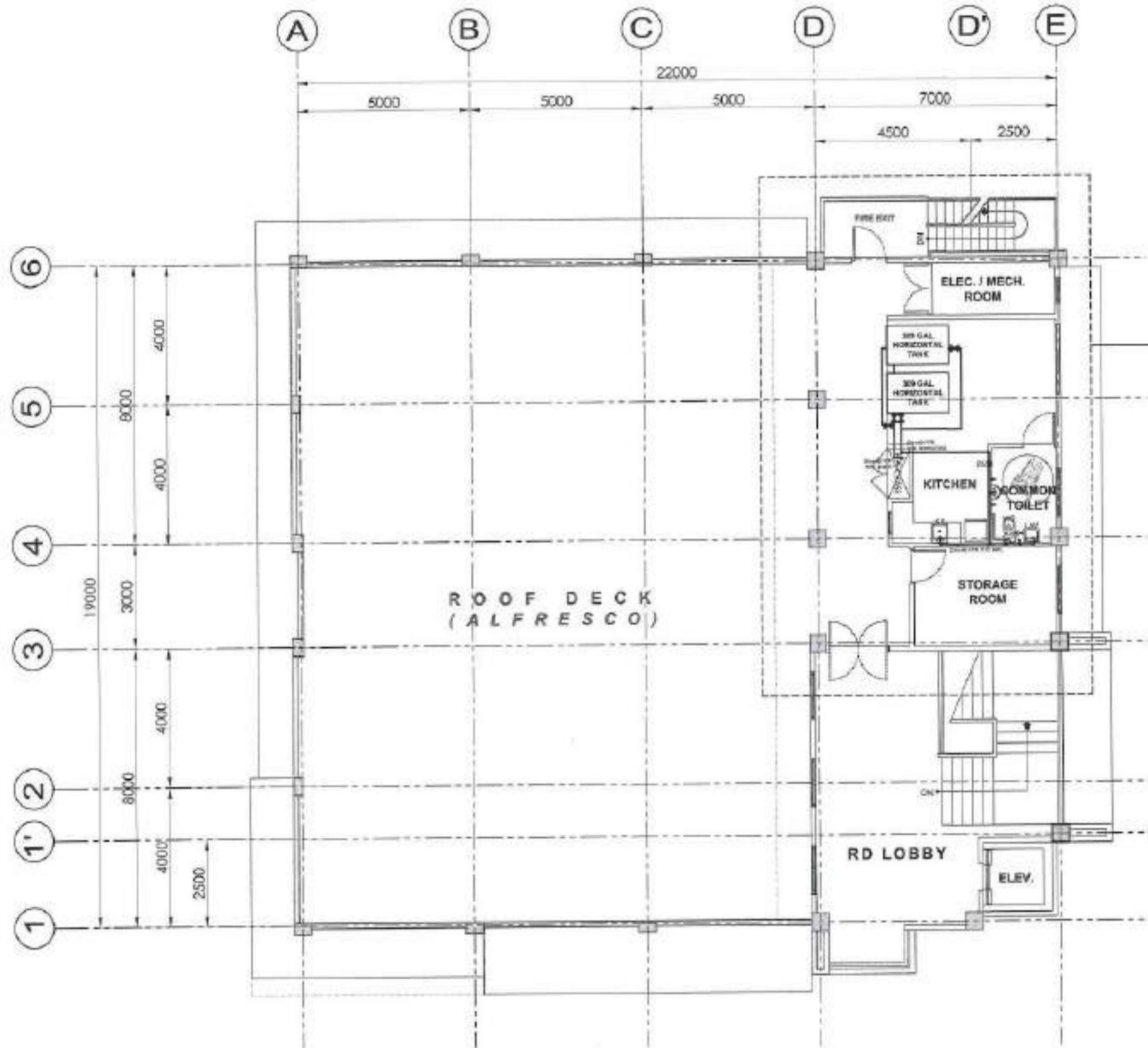
<p>SICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE SICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY TEL. NO. 052 854484</p>	PREPARED BY: <p>AR ELVIRO NAPUYA, RMP REGISTERED CIVIL ENGINEER</p>	PROJECT TITLE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY LOCATION: SICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY	REVISION: DATE: SHEET NO. OF TOTAL SHEETS: 45 OF 51	DESIGNED BY: ENGR. AIVIN B. LUZONG CHECKED BY: MARY JESSICA M. DRACOSO DATE:	RECOMMENDING APPROVAL: <p>ENGR. AIVIN B. LUZONG DIRECTOR</p>	RECORDING APPROVAL: <p>ATTY. ARNEL M. DRACOSO SCHOOL OFFICE OF SOCIAL SCIENCES & HUMAN DEVELOPMENT</p>	RECOMMENDING APPROVAL: <p>PROF. SONNIE A. RAMOS, CPA, MBA VICE PRESIDENT FOR PLANNING & DEVELOPMENT</p>	APPROVED BY: <p>DR. BABY BOY BENJAMIN D. NEBRES III SICOL UNIVERSITY PRESIDENT</p>	SHEET NO.: P 45 51
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**THIRD FLOOR
CLEAN WATER LINE LAYOUT**

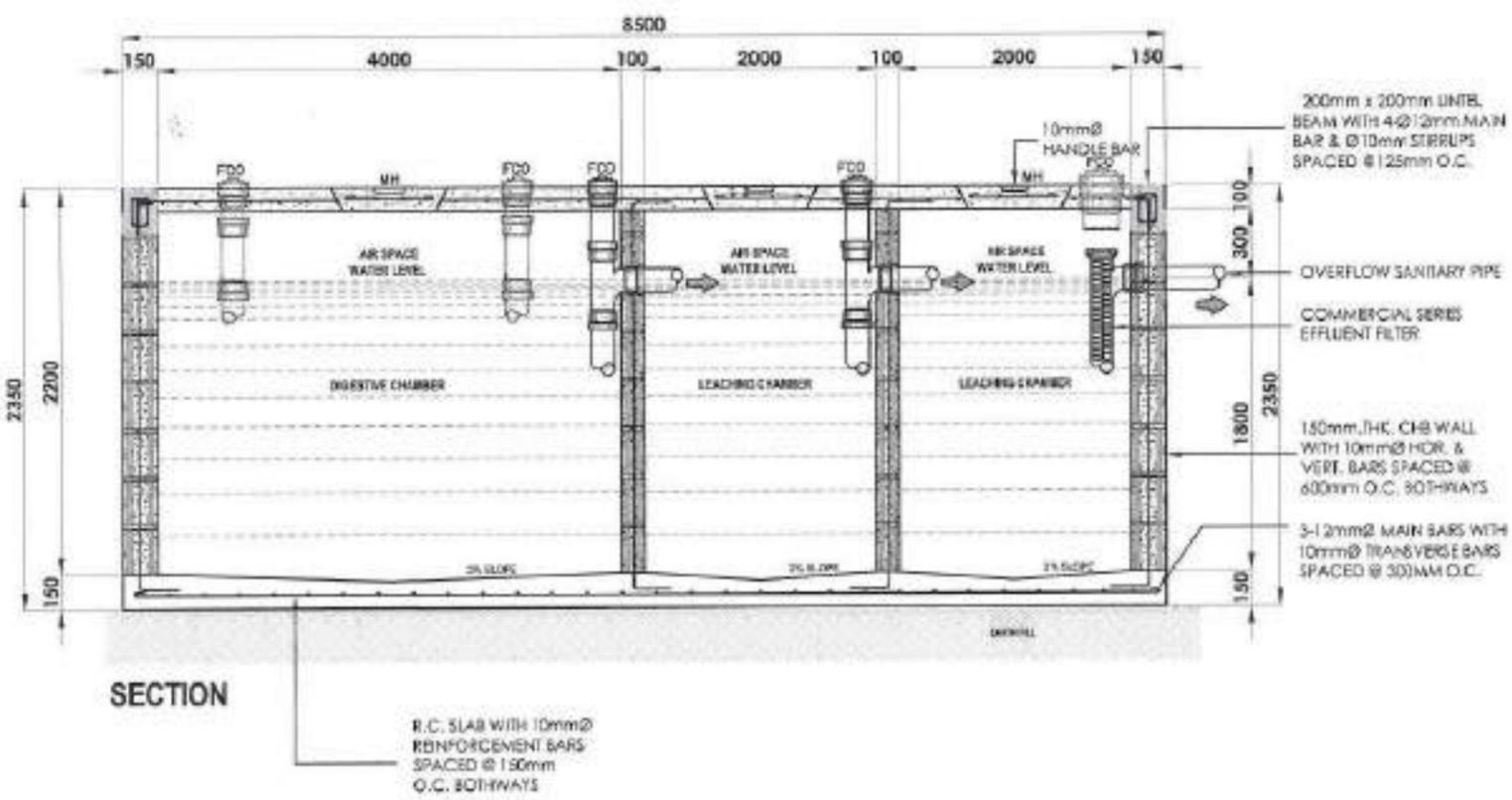
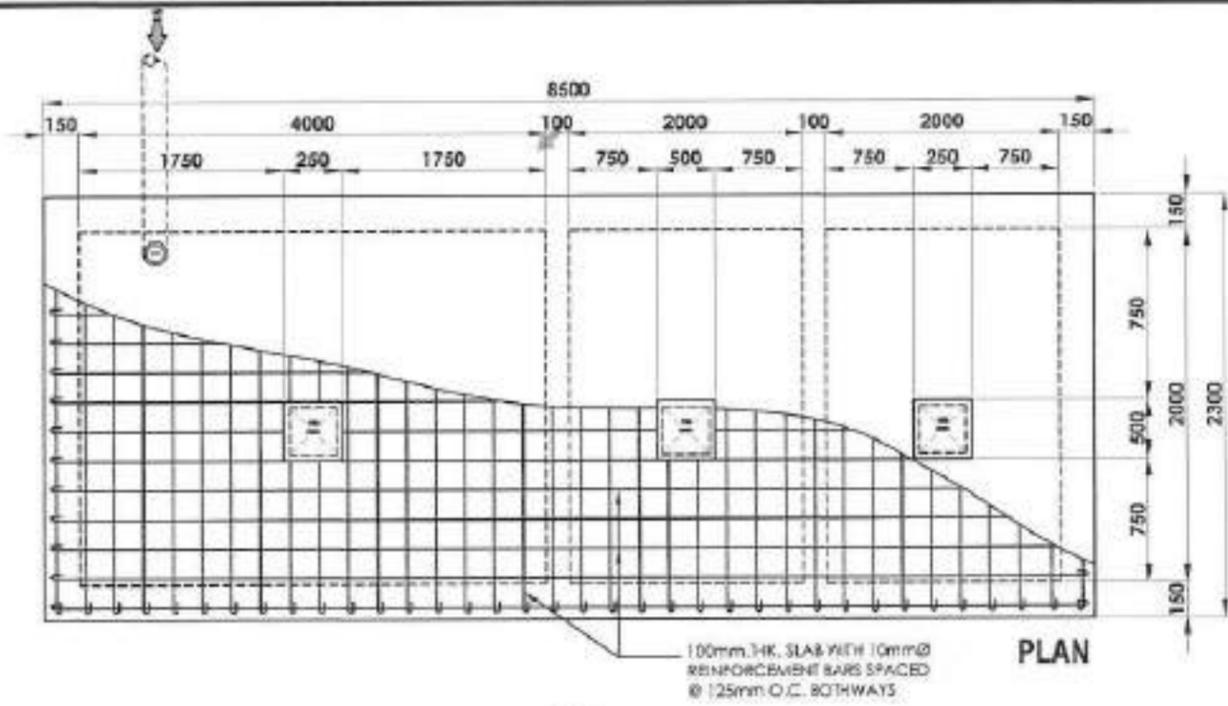
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 <p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY TEL. NO. 520 832-824</p>	DESIGNED BY:  AR ELVIRO L. APUYA, RMP DESIGNATED UNIV. WATER PLUMBER	PROJECT NO.: PROJECT TITLE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY	REVISION: DATE: SHEET CONTENTS: DATE: DRAWN BY: DATE: CHECKED BY: DATE: APPROVED BY: DATE:	PROJECT FILE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY	LOCATION: BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY	RECOMMENDING APPROVAL:  ENGR. ALVIN B. LUZONG CIVIL ENGINEER	RECOMMENDING APPROVAL:  ATTY. ALEX E. SARMIENTO LEGAL COUNSEL	RECOMMENDING APPROVAL:  PROF. SONNIE A. RAMOS, CPA, MSA VICE PRESIDENT FOR PLANNING & DEVELOPMENT	APPROVED BY:  DR. BABY BOY BENJAMIN D. NEBRES III BICOL UNIVERSITY PRESIDENT	SHEET NO.: P 47 8 51
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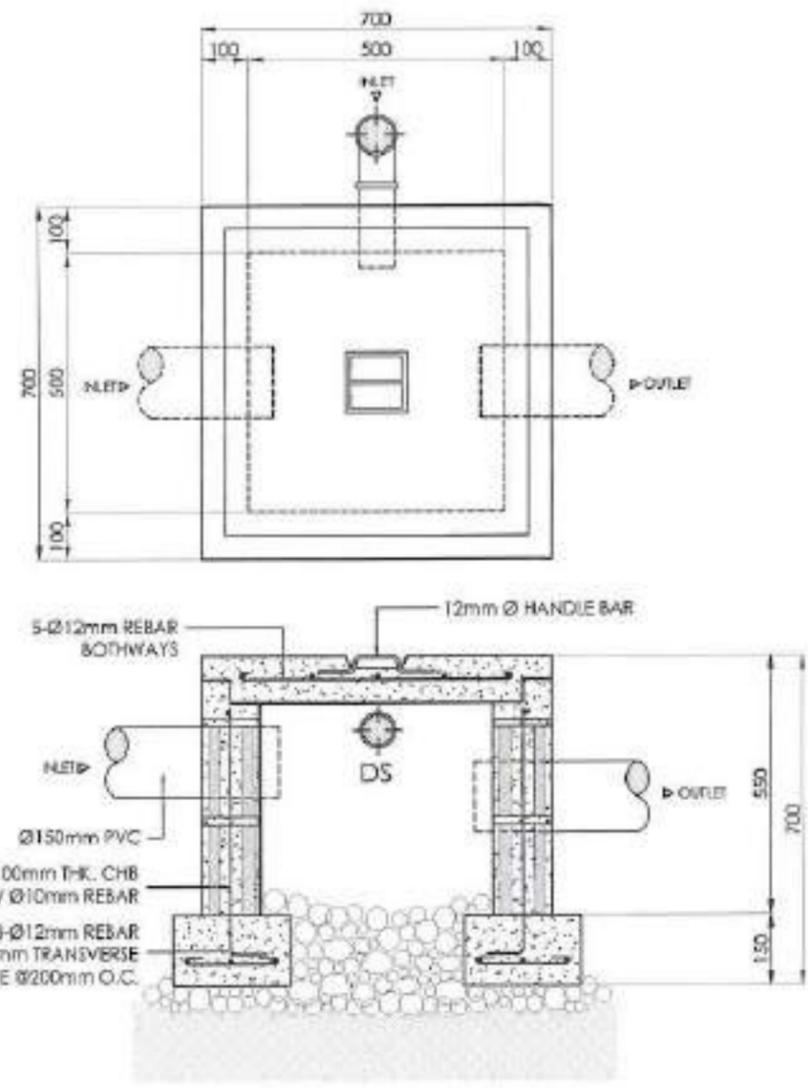


**ROOF DECK
 CLEAN WATER LINE LAYOUT**
 SCALE 1:100 MTS.

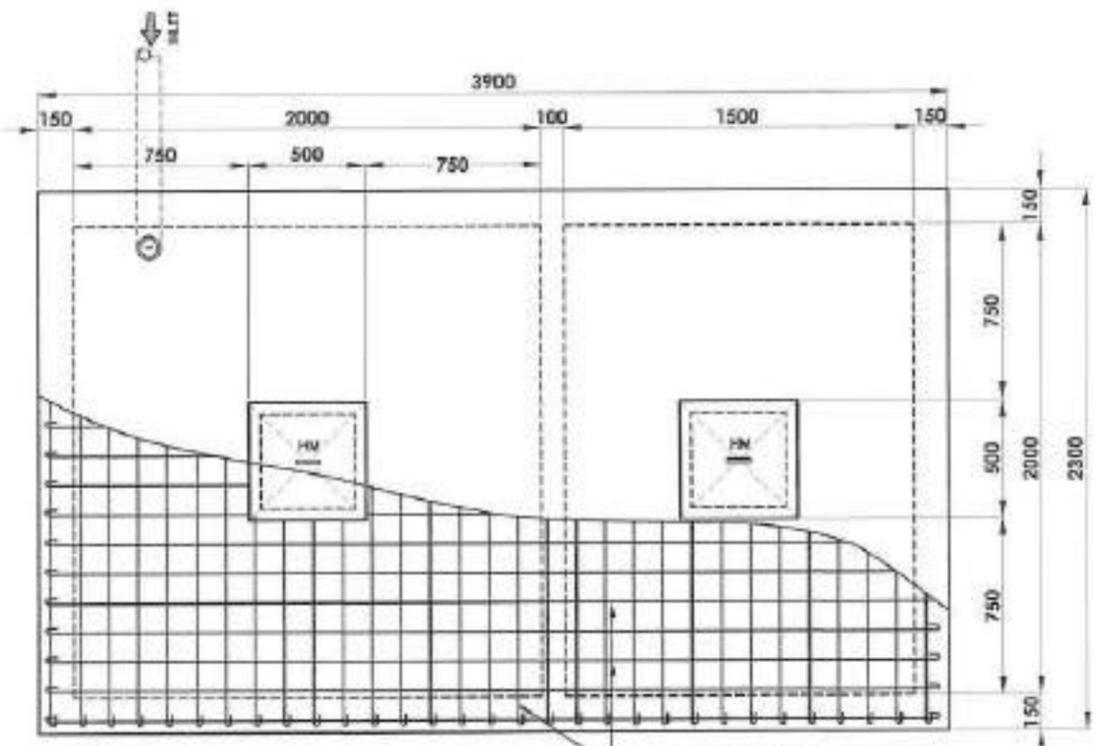
<p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY TEL. NO.: 092-800-854</p>	PREPARED BY: AR. BEVIRO T. APUYA, RMP DEPARTMENT: ARCHITECTURE	REV. NO.: AFD. NO.: PR. NO.: DATE: TITLE: SHEET NO.	PROJECT TITLE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY LOCATION: BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY	REVISION DATE SHEET CONTENTS CASE AS SHOWN	RECOMMENDING APPROVAL: ENGR. ALVIN S. LUZONG (R.M.) DEAN, COLLEGE OF SCIENCE AND TECHNOLOGY	RECOMMENDING APPROVAL: ART. ALEX S. MENDOZA (R.M.) VICE PRESIDENT, PLANNING & DEVELOPMENT	RECOMMENDING APPROVAL: PROF. SONNIE A. RAMOS, CPA, MBA VICE PRESIDENT, PLANNING & DEVELOPMENT	APPROVED BY: DR. BABY BOY BENJAMIN D. NEERES III BICOL UNIVERSITY PRESIDENT	SHEET NO.: <p>P 48 8 12 51</p>
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DETAIL OF SEPTIC TANK
SCALE 1:25 MTS.

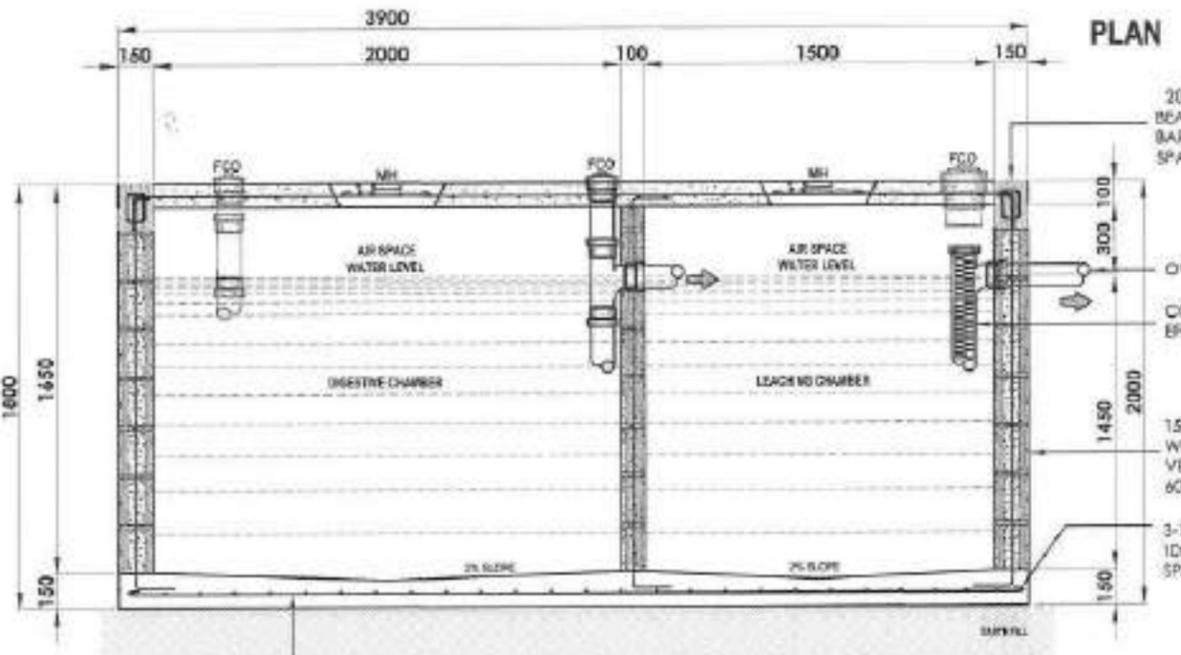


<p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY TEL. NO. 052-821424</p>	PREPARED BY: AR. EMANO T. ABUYA, RMP	REC. NO. APPROVED: DATE: PLACE: SIGNATURE:	PROJECT TITLE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY	REVISION: DATE: DRAWN BY: CHECKED BY: DATE:	RECOMMENDING APPROVAL: ENGR. EDWIN B. LUZONG	RECOMMENDING APPROVAL: ATTY. ALEX C. NERON	RECOMMENDING APPROVAL: PROF. SONNIE A. RAMOS, CPA, MA	APPROVED BY: DR. BABY BOY BENJAMIN P. NEBRES III	SHEET NO.: 49 51
	DESIGNED BY: MAZTER P. ABAY	LOCATION: BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY	AS SHOWN	PROJECT NO.: BICOL/2024/001	NOT PRESENT FOR PLANNING & DEVELOPMENT	BICOL UNIVERSITY			



PLAN

100mm THK. SLAB WITH 10mm \varnothing REINFORCEMENT BARS SPACED @ 125mm O.C. BOTHWAYS



SECTION

R.C. SLAB WITH 10mm \varnothing REINFORCEMENT BARS SPACED @ 150mm O.C. BOTHWAYS

DETAIL OF WASTE WATER TANK

SCALE

1:25 MTS.

LEGEND:

I. WATER DISTRIBUTION SYSTEM:

- CWL COLD WATER LINE
- CWR COLD WATER RISER
- HB HOSE BIBB
- GV (NC) GATE VALVE (NORMALLY CLOSE)
- GV (NO) GATE VALVE (NORMALLY OPEN)
- WM WATER METER
- CV CHECK VALVE

II. SEWER/WASTE & VENT SYSTEM:

- SP SOIL PIPE
- SS SOIL STACK
- V/VAC/VAW VENT/VENT AT CEILING / VENT AT WALL
- VSTR VENT STACK THRU ROOF DECK

III. STORM DRAINAGE SYSTEM:

- DP DRAINAGE PIPE
- DS DOWNSPOUT

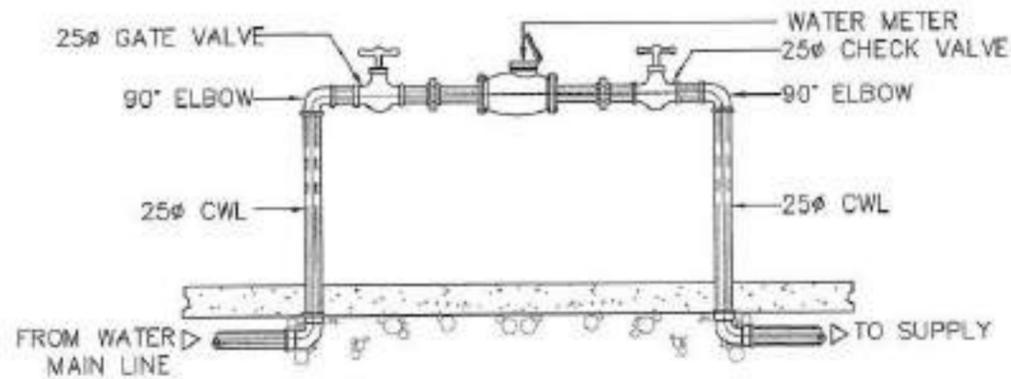
IV. FIXTURE:

- WC WATER CLOSET
- LAV LAVATORY
- CT COUNTER TOP
- FD FLOOR DRAIN
- SD SHOWER DRAIN
- RD ROOF DRAIN
- KS KITCHEN SINK
- SH SHOWER HEAD
- F FAUCET
- BH HOSE BEDIT
- BT BATH TUB
- JC JACUZZI

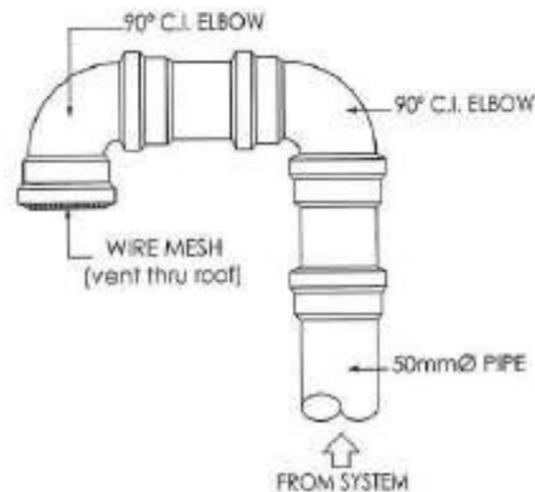
V. APPURTENANCES:

- CB AREA DRAIN / CATCH BASIN
- CO FLOOR CLEANOUT

<p>BICOL UNIVERSITY PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE BICOL UNIVERSITY LEGAZPI WEST, LEGAZPI CITY TEL. NO. (052) 854-494</p>	<p>PREPARED BY: AR. ELVIRO T. APUYA, RMP DESIGNER/UNIV. WATER PLUMBER</p>	<p>PROJECT TITLE: CONSTRUCTION OF REGIONAL PEACE AND DEVELOPMENT CENTER, LEGAZPI CITY</p>	<p>REVISION:</p>	<p>DATE:</p>	<p>SHEET NO. OF SHEETS:</p>	<p>CARD:</p>	<p>RECOMMENDING APPROVAL: ENGR. ALVIN B. LUZONG PROJECT ENGINEER</p>	<p>RECOMMENDING APPROVAL: ATTY. ALEX L. SISON/GENCO LEGAL COUNSEL</p>	<p>RECOMMENDING APPROVAL: PROF. SONNIE A. RAMOS, CPA, MBA VICE PRESIDENT FOR PLANNING & DEVELOPMENT</p>	<p>APPROVED BY: DR. BABY BOY BENJAMIN D. NERRES III BICOL UNIVERSITY PRESIDENT</p>	<p>SHEET NO.:</p>
	<p style="text-align: right;">P 50 11 51</p>										



DETAIL OF WATER METER



DETAIL OF VSTR



SPECIFICATIONS:

1. COLD WATER LINES POLYPROPYLENE PIPE
2. DRAINAGE LINES PVC PIPE SERIES 1000 II, WITH SOLVENT JOINT FITTINGS, "EMERALD SUPRA SERIES" BRAND OR EQUAL.
3. SEWER & WASTE LINES 500 TO 1000, PVC PIPES SERIES 1000 II, 1500 & ABOVE PVS PIPES CLASS 35 WITH SOLVENT JOINT FITTINGS, "EMERALD SUPRA SERIES" BRAND OR EQUAL.
4. VENT LINES PVC PIPES SERIES 600, WITH SOLVENT JOINT FITTINGS, "EMERALD SUPRA SERIES" BRAND OR EQUAL.
5. WATER METER "ARAD, EVER, ASAHI" MWSS APPROVED
6. DRAIN & CLEANOUTS CAST IRON BODY WITH BRONZE/BRASS TOP BRONZE, CONFORMING ASTM 862, 1034 KPa CLASS THREADED CONNECTION.

GENERAL NOTES:

01. ALL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE PHILIPPINE PLUMBING CODE AND WITH THE LOCAL SANITARY AGENCY.
02. ALL MATERIALS TO BE USED SHALL BE NEW AND APPROVED TYPE FOR LOCATION AND PURPOSES.
03. USE EMERALD BY ULTIMA-SUPRA S-1000, FOR SANITARY WASTE SYSTEM.
04. ALL CLEAR WATER SUPPLY SYSTEM SHALL BE OF POLYPROPYLENE PIPE OR APPROVE EQUIVALENT.
05. MAIN WATER SUPPLY PIPES MUST BE 1"Ø AND BRANCH SUPPLY PIPES MUST BE 3/4"Ø PVC PIPES.
06. SEPTIC VAULT SHALL BE WATER TIGHT, COMPLETE WITH THE NECESSARY REQUIREMENTS OF A TYPICAL APPROVED TANK.
07. ALL WORKS SHALL BE OF CLASS WORKMANSHIP, PIPING SYSTEM MUST BE DOUBLED CHECKED ESPECIALLY ON JOINTS TO INSURE WATER TIGHT PLUMBING SYSTEM.
08. ALL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED MASTER PLUMBER.



BICOL UNIVERSITY
PHYSICAL DEVELOPMENT
AND MANAGEMENT OFFICE
BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY
TEL. NO. 052 822-4254

PREPARED BY:
[Signature]
A.E. ELVINDO T. APUYA, RMP
SENIOR LEAD MASTER PLUMBER

PROJECT NO.
DATE
SCALE
SHEET NO.

PROJECT TITLE:
CONSTRUCTION OF REGIONAL PEACE AND
DEVELOPMENT CENTER, LEGAZPI CITY
LOCATION: BICOL UNIVERSITY LEGAZPI WEST LEGAZPI CITY

REVISION
DATE
SHEET CONTENTS
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DESIGNED:
CHECKED:
DATE

ASSIGNED
DATE

RECOMMENDING APPROVAL:
[Signature]
ENGR. ARVIN S. LUZONG
DIRECTOR

RECOMMENDING APPROVAL:
[Signature]
ATA. ALEA M. BONGOCENO
DEAN, COLLEGE OF SOCIAL SCIENCES AND HUMANITIES

RECOMMENDING APPROVAL:
[Signature]
PROF. SONNIE A. RAMOS, CPA, MBA
VICE PRESIDENT FOR PLANNING & DEVELOPMENT

APPROVED BY:
[Signature]
DR. BABY BOY BENJAMIN D. NEBRES III
BICOL UNIVERSITY PRESIDENT

SHEET NO.
P 51
12
12 51