
PERSPECTIVE
 SCALE _____ NTS

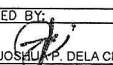



SITE DEVELOPMENT PLAN
 SCALE _____ NTS

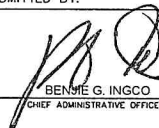



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 UNIVERSITY PHYSICAL FACILITIES DEVELOPMENT UNIT

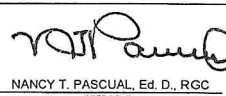
PROJECT TITLE:
**ESTABLISHMENT OF
 DORMITORY AND BUSINESS
 CENTER**
 TANAY CAMPUS

PREPARED AND DRAWN BY:
 UPFDU
 CHECKED BY:

NEL JOSHUA P. DELA CRUZ, RCE
 ENGINEER, UPFDU

NOTED BY:

STEVE S. J. MILLARE, REMP
 HEAD, UPFDU

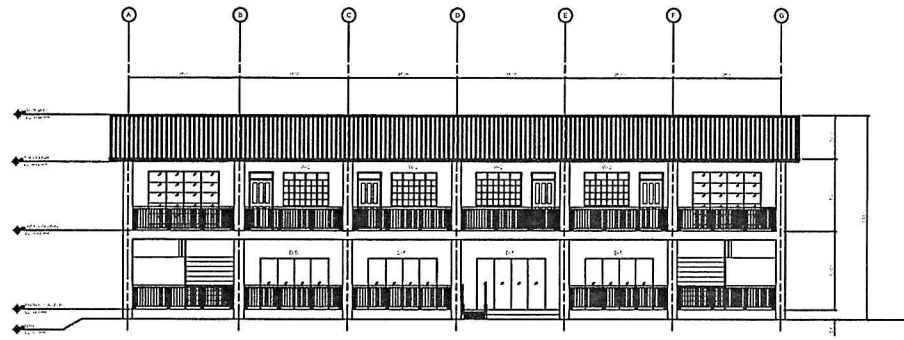
SUBMITTED BY:

BENJIE G. INGCO
 CHIEF ADMINISTRATIVE OFFICER

RECOMMENDING APPROVAL:

RENATO F. DE LEON, Ph.D.
 VICE PRESIDENT FOR
 ADMINISTRATION AND FINANCE

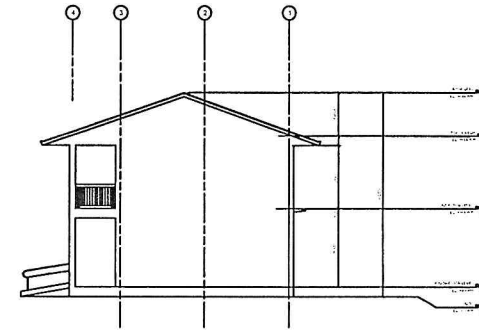
APPROVED BY:

NANCY T. PASCUAL, Ed. D., RGC
 PRESIDENT

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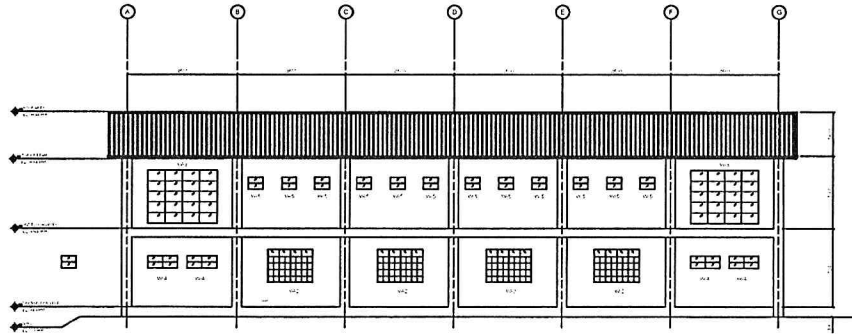
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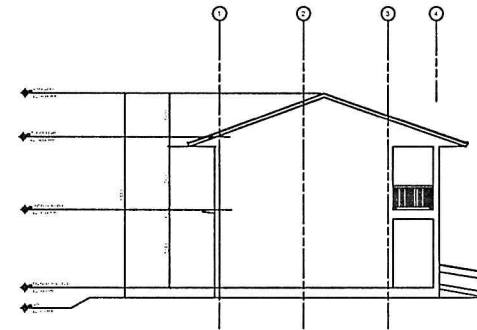
FRONT ELEVATION
SCALE 1:200 MTS.



LEFT SIDE ELEVATION
SCALE 1:200 MTS.



REAR ELEVATION
SCALE 1:200 MTS.



RIGHT SIDE ELEVATION
SCALE 1:200 MTS.



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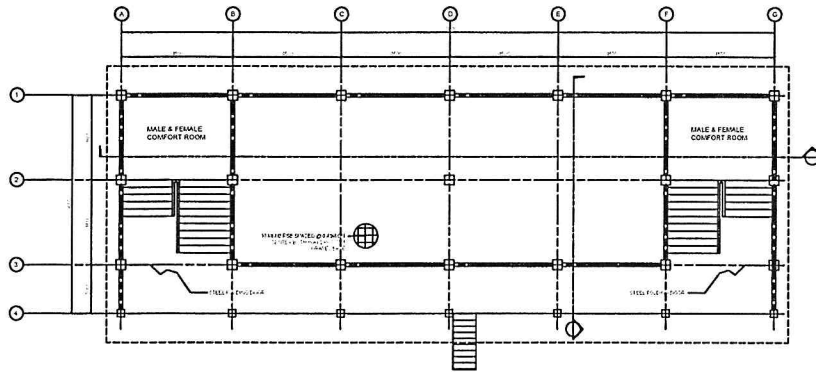
NOTED BY:
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HEAD, UPFDU

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CHIEF ADMINISTRATIVE OFFICER

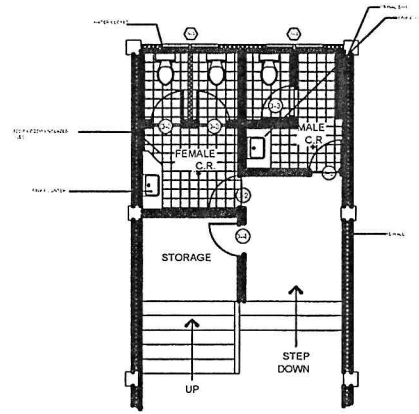
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PRESIDENT

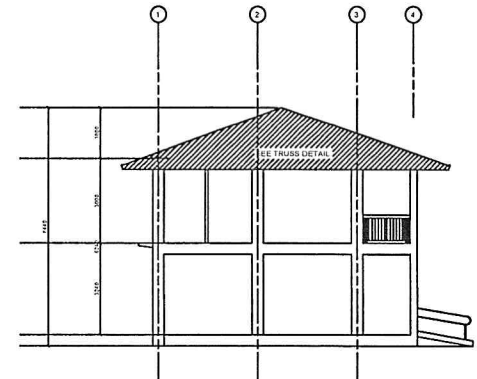
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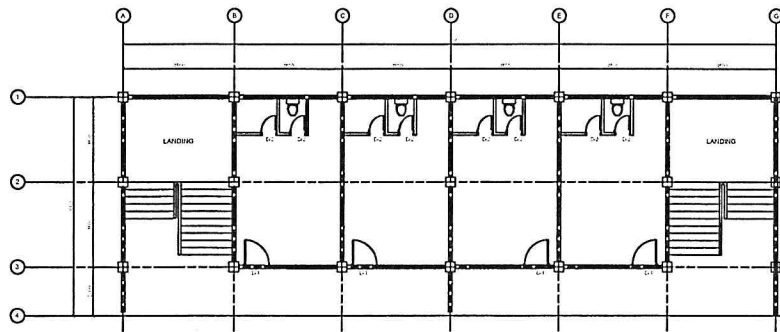
GROUND FLOOR PLAN
SCALE 1:200 MTS.



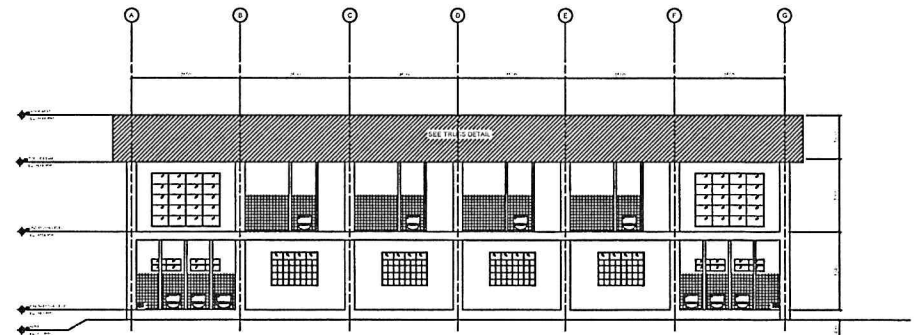
COMFORT ROOM FLOOR PLAN
SCALE 1:200 MTS.



CROSS SECTION
SCALE 1:200 MTS.



SECOND FLOOR PLAN
SCALE 1:200 MTS.



LONGITUDINAL SECTION
SCALE 1:200 MTS.



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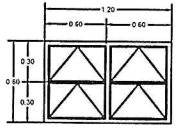
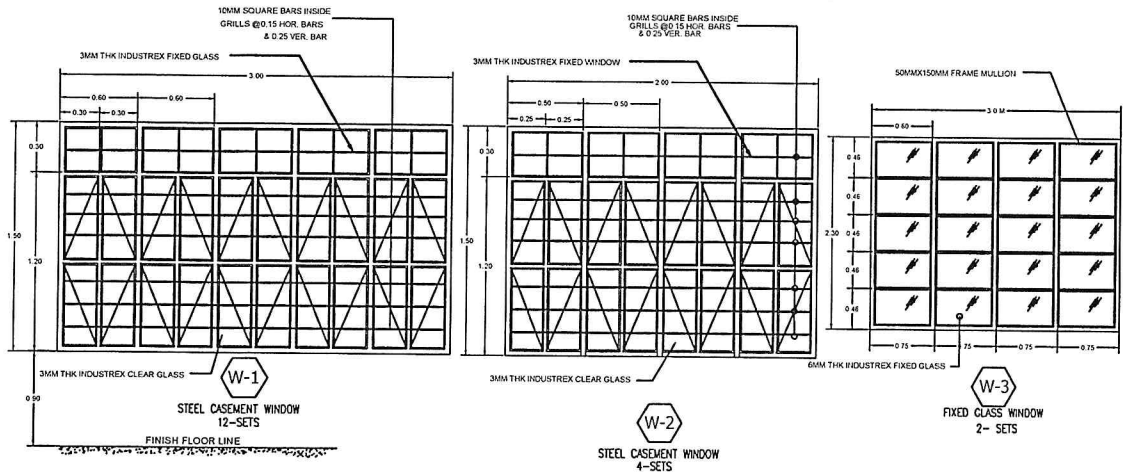
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HEAD, UPFDU

SUBMITTED BY:
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CHIEF ADMINISTRATIVE OFFICER

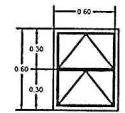
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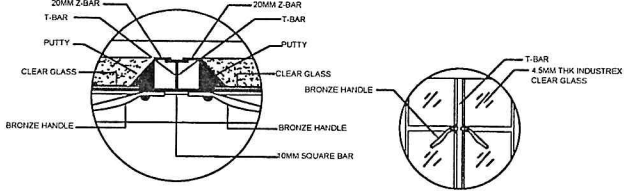
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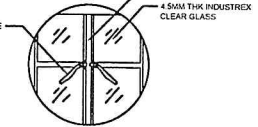
W-4
STEEL CASEMENT WINDOW
4-SETS (AWNING TYPE)



W-5
STEEL CASEMENT WINDOW
4-SETS (AWNING TYPE)

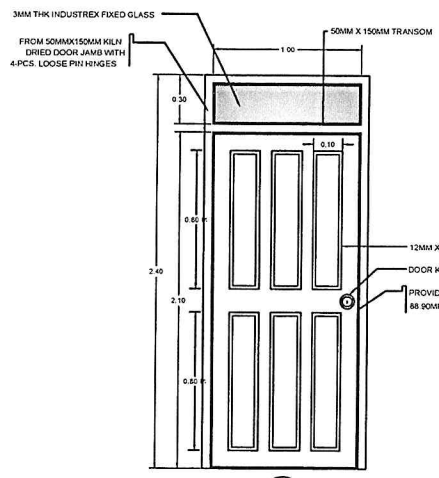


WINDOW SPOT DETAIL SECTION

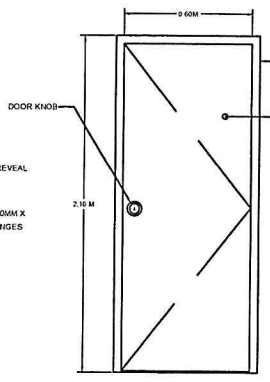


WINDOW SPOT DETAIL

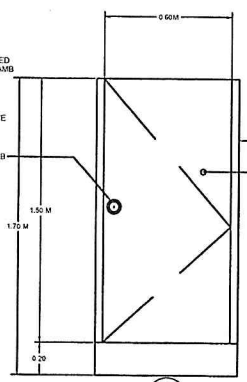
SCHEDULES OF WINDOWS
SCALE 1:25 M



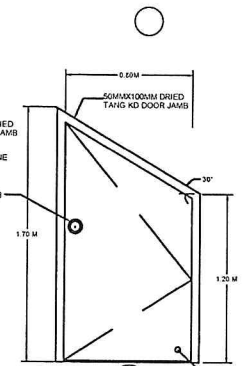
D-1
PANEL DOOR: 4-SETS



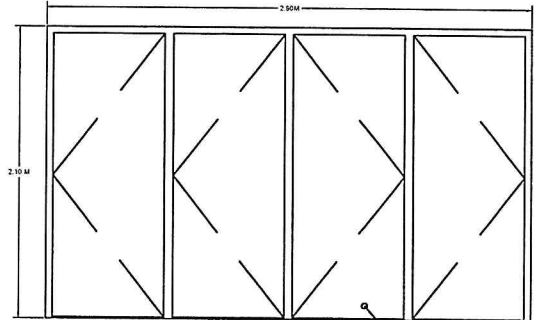
D-2
FLUSH DOOR TYPE COMFORT ROOM: 12-SETS



D-3
FLUSH DOOR TYPE COMFORT ROOM: 6-SETS



D-4
FLUSH DOOR TYPE STORAGE: 2-SETS



D-5
FLUSH DOOR TYPE COMFORT ROOM: 4-SETS

SCHEDULE OF DOORS
SCALE NTS



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HEAD, UPFDU

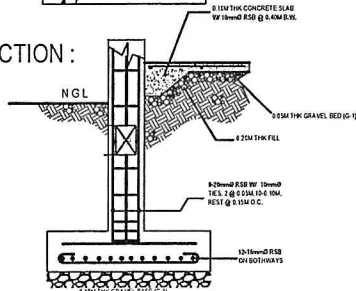
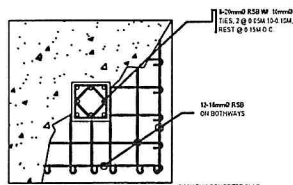
SUBMITTED BY:
BENJIE G. INGCO
CHIEF ADMINISTRATIVE OFFICER

RECOMMENDING APPROVAL:
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VICE PRESIDENT FOR
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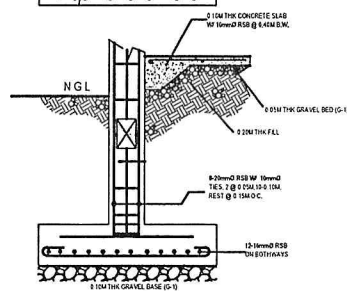
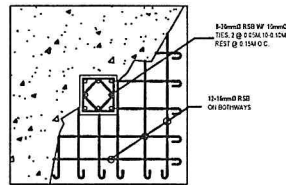
APPROVED BY:
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PRESIDENT

SHEET NO.:
**A
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SECTION :

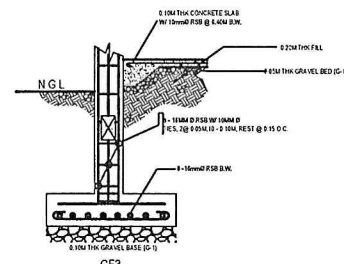
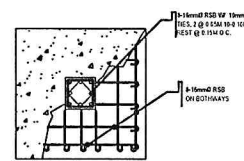


CF1



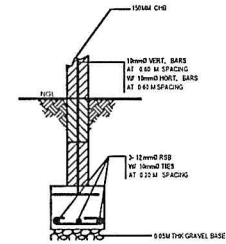
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DETAIL OF COLUMN FOOTING
SCALE NTS



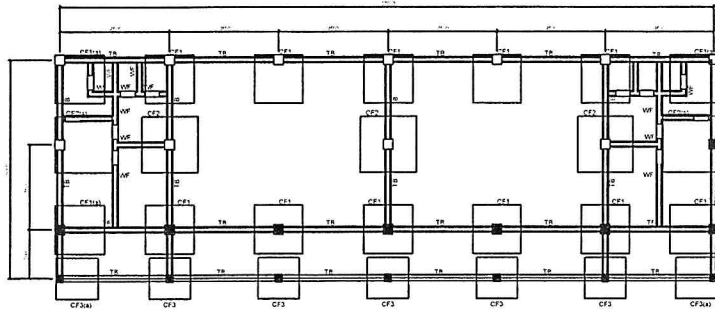
CF3

NOTE : APPLICATION OF WALL FOOTING & OR TIE BEAM AS INDICATED ON THE PLAN SHALL DEPEND ON THE NATURAL SOIL CONDITION UPON APPROVAL OF THE DESIGN ENGINEER.

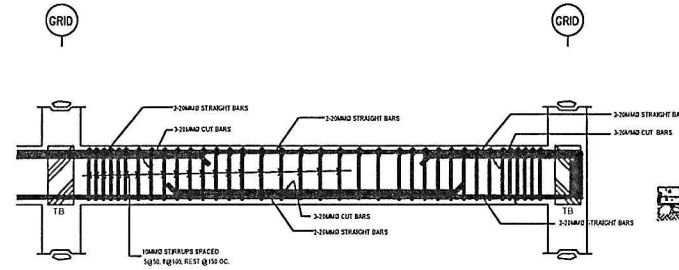


DETAIL OF WALL FOOTING (WF)
SCALE NTS

NOTE : FOOTING TIE BEAM FOR PERIMETER WALL ARE REQUIRED IF EXCAVATION OF FOUNDATION FOOTING DOES NOT REACHED THE REQUIRED LOAD BEARING CAPACITY OR UNSUITABLE SOIL IS PRESENT AT CONSTRUCTION SITE.

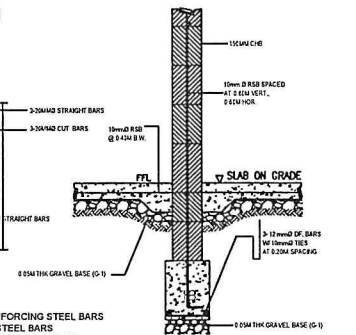


FOUNDATION PLAN
SCALE 1:200



DETAIL OF TIE BEAM (TB)
SCALE NTS

- NOTE :
1. USE $f_c' = 21 \text{ MPa}$ FOR ALL CONCRETE WORKS
 2. USE $f_y = 275 \text{ MPa}$ FOR 10, 12, 16 & 20 mm ϕ REINFORCING STEEL BARS
 3. USE A36 FOR ALL STRUCTURAL STEEL PLATES AND SECTIONS AND FRAMES (STRUCTURAL WELD).
 4. PROVIDE FULL WELD CONNECTIONS FOR ALL STEEL TRUSSES AND FRAMES (STRUCTURAL WELD).
 5. PROVIDE A307 ANCHOR BOLTS.
 6. PROPER ELEVATIONS MUST BE OBSERVED.
 7. FOUNDATION MUST REST ON HARD SOIL STRATA
 8. OBSERVED PROPER CONSTRUCTION METHODS.



DETAIL OF CHB WALL (PARTITION)
SCALE NTS



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CHECKED BY:
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ENGINEER, UPFDU

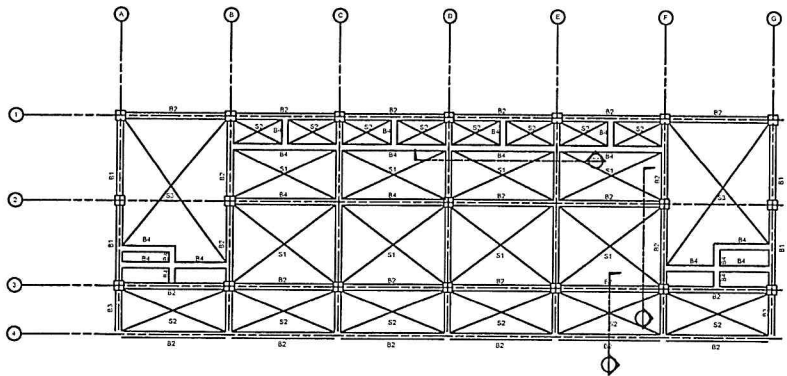
NOTED BY:
STEVE S.J. MILLARE, RENC
HEAD, UPFDU

SUBMITTED BY:
BENJIE G. INGCO
CHIEF ADMINISTRATIVE OFFICER

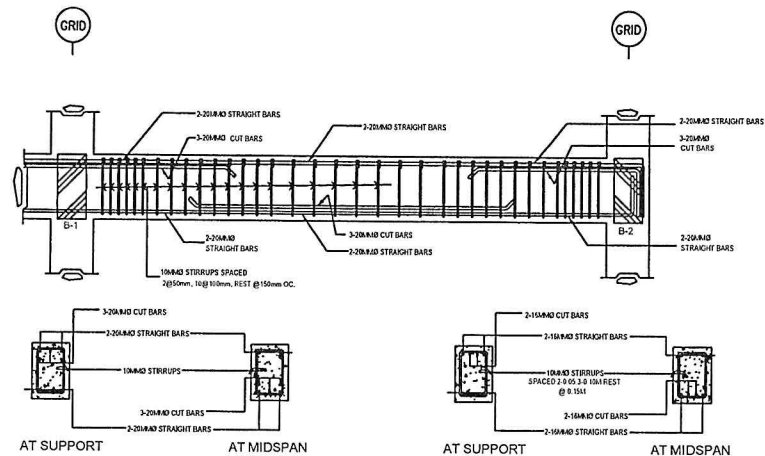
RECOMMENDING APPROVAL:
RENATO F. DE LEMON, Ph.D.
VICE PRESIDENT FOR
ADMINISTRATION AND FINANCE

APPROVED BY:
NANCY T. PASCUAL, Ed. D., RGC
PRESIDENT

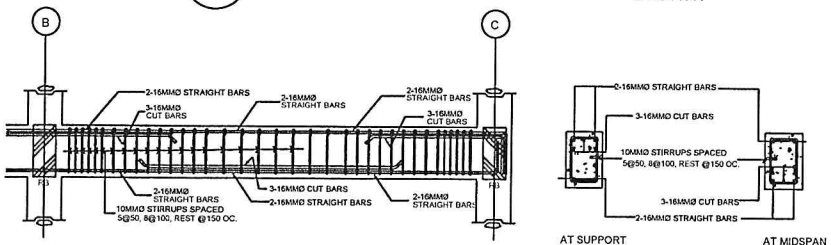
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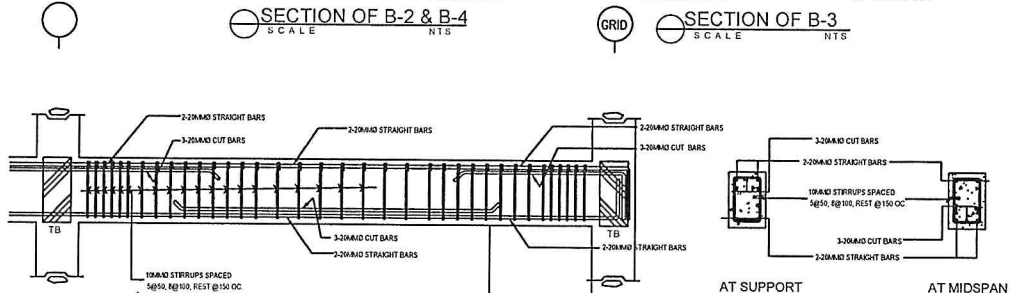
SECOND FLOOR FRAMING PLAN
SCALE 1:200 MTS.



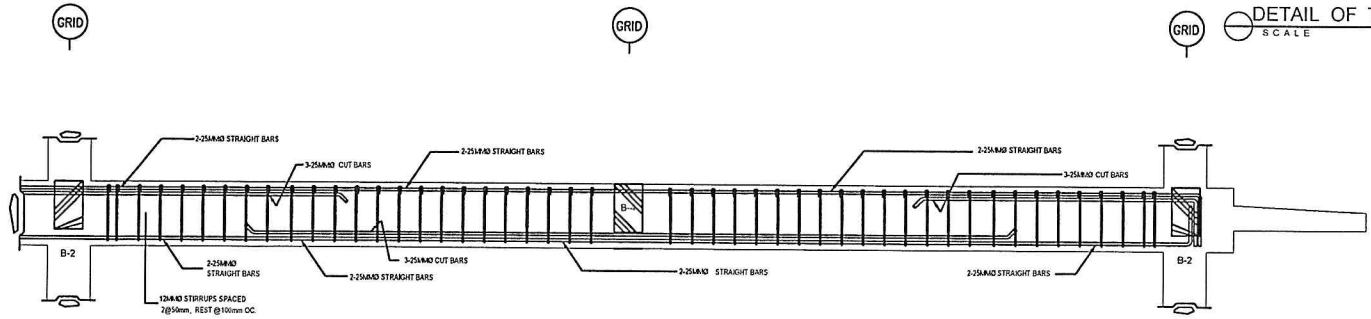
SECTION OF B-2 & B-4 SCALE NTS
SECTION OF B-3 SCALE NTS



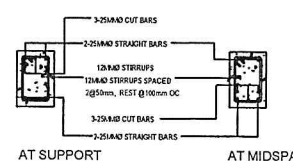
DETAIL OF ROOF BEAM (RB) SCALE NTS



DETAIL OF TIE BEAM (TB) SCALE NTS



DETAIL OF B-1 SCALE NTS



SECTION OF B-1 SCALE NTS



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ENGINEER, UPFDU

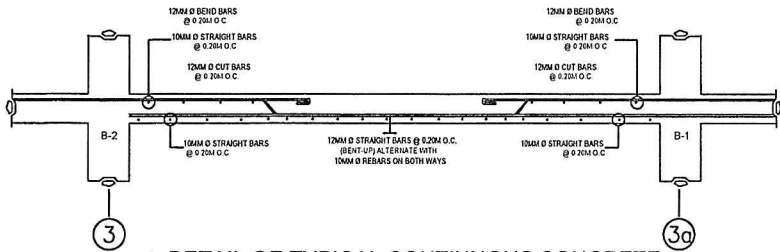
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HEAD, UPFDU

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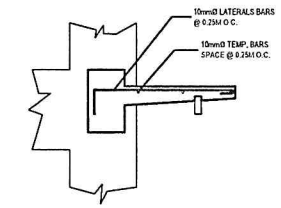
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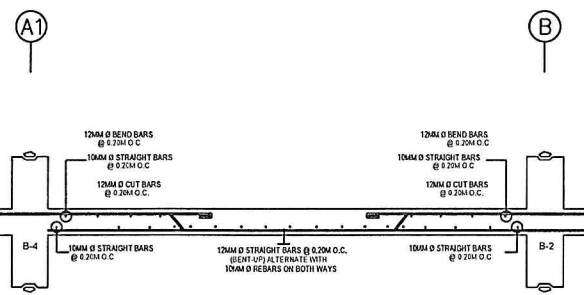
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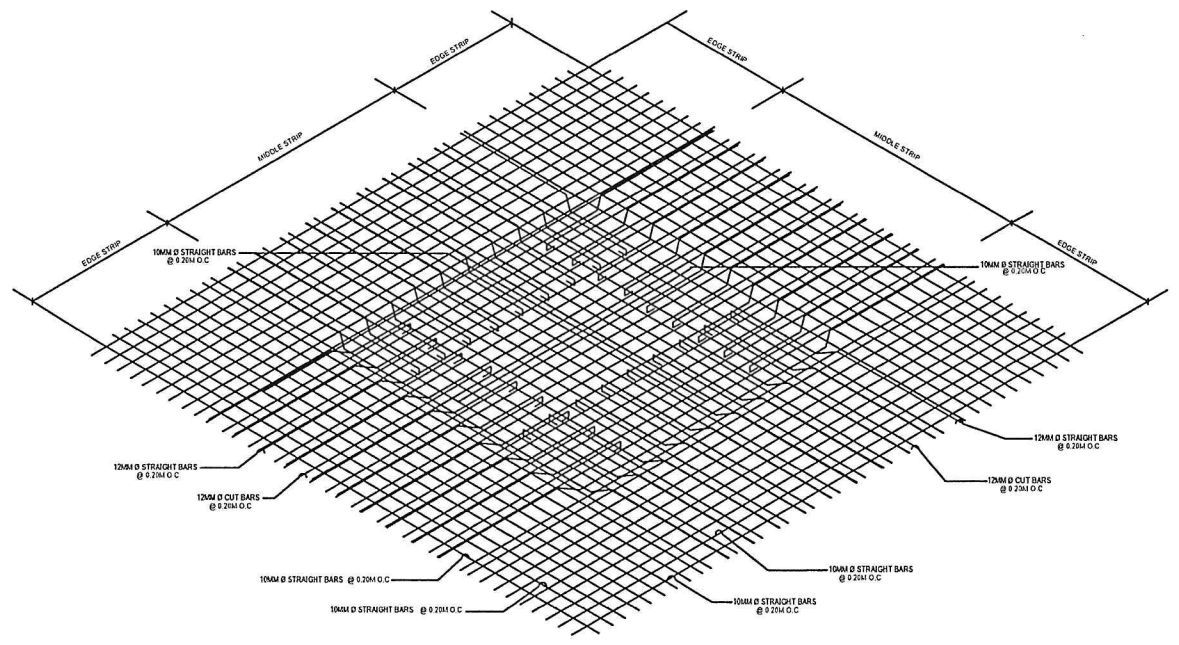
DETAIL OF TYPICAL CONTINUOUS CONCRETE (SECTION A-A) SCALE NTS



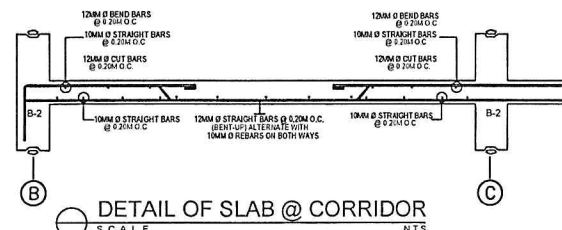
DETAIL OF MEDIA AGUA



DETAIL OF TYPICAL CONTINUOUS CONCRETE (SECTION B-B) SCALE NTS

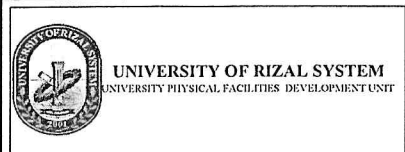


SLAB ISOMETRIC VIEW SCALE NTS



DETAIL OF SLAB @ CORRIDOR (SECTION C-C) SCALE NTS

DETAIL SECTION OF FLOOR SLAB SCALE NTS



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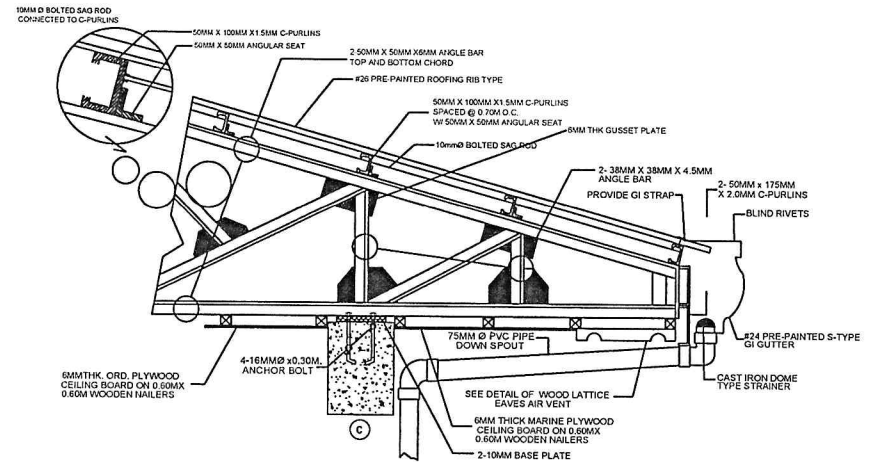
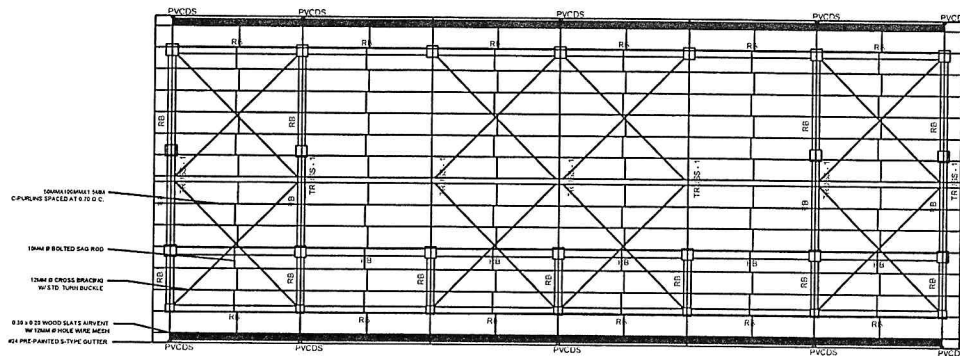
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SUBMITTED BY:
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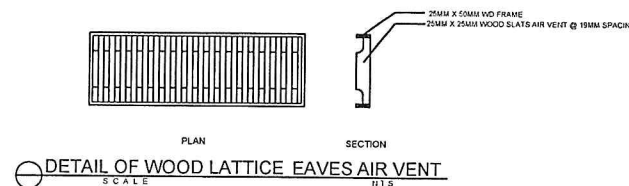
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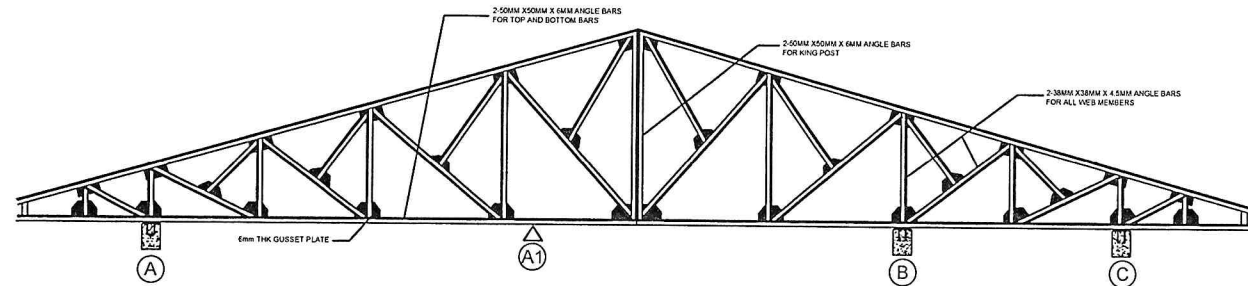
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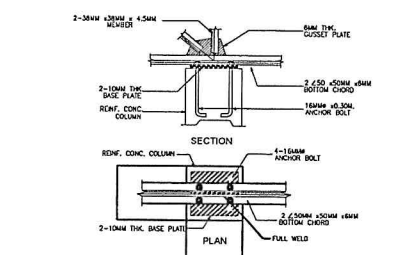
DETAIL OF GUTTER/ CEILING/ EAVES & ANCHORAGE



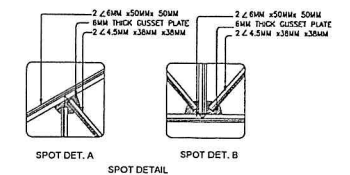
DETAIL OF WOOD LATTICE EAVES AIR VENT



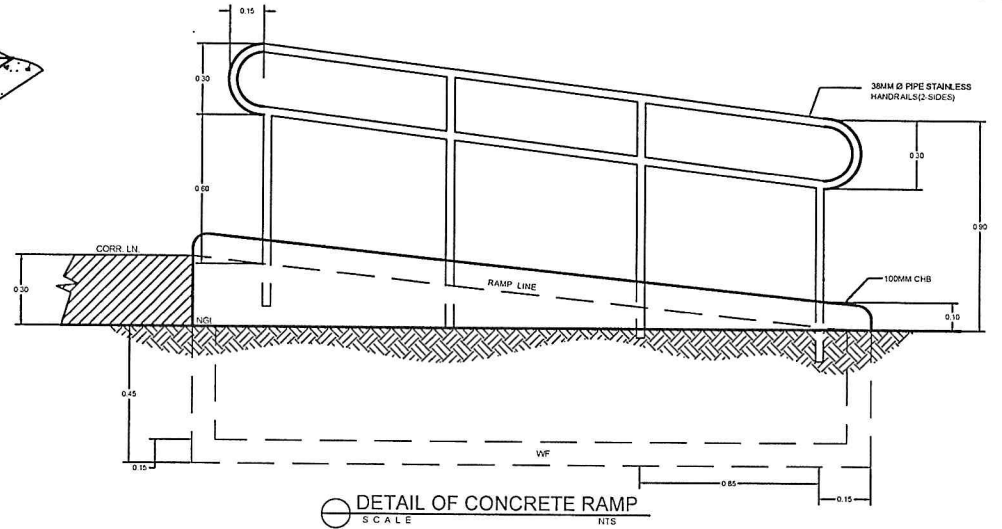
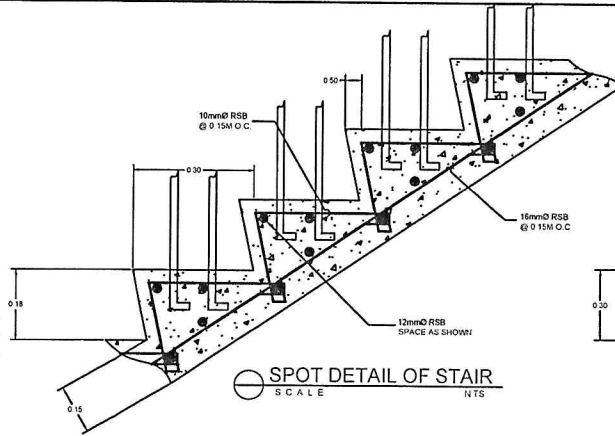
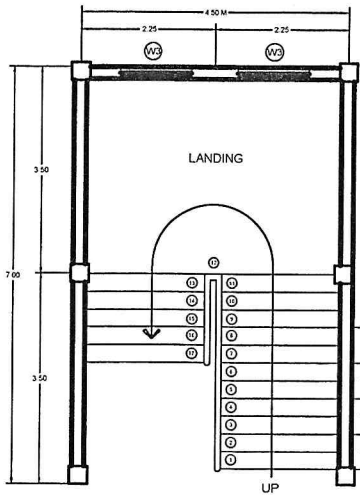
DETAIL OF TRUSS - 1



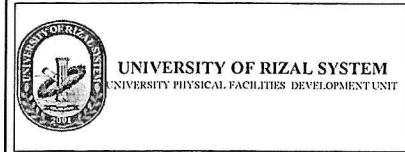
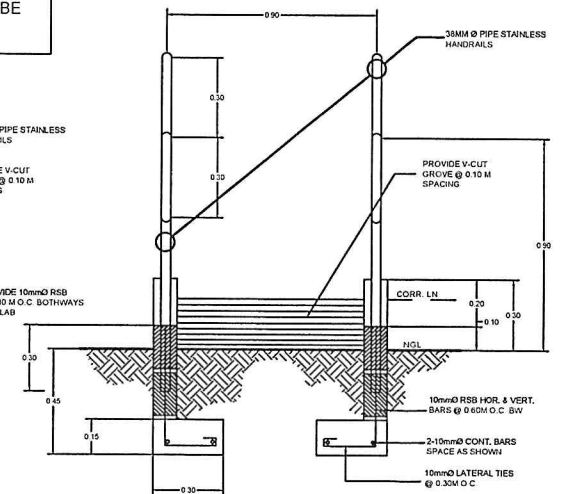
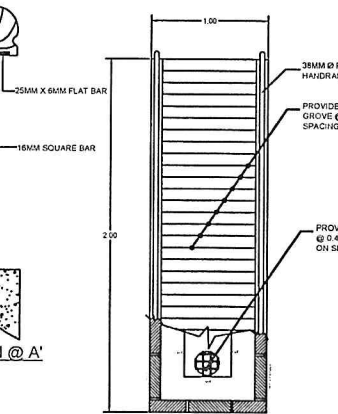
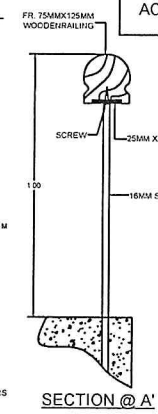
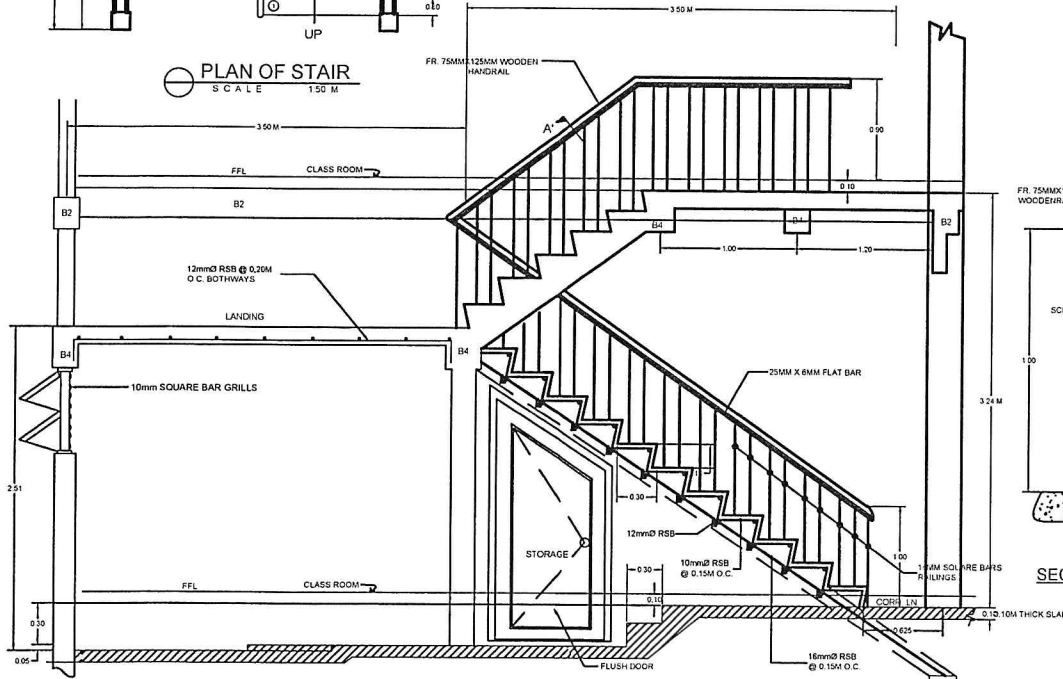
DETAIL OF TRUSS BEAM CONNECTION



UNIVERSITY OF RIZAL SYSTEM UNIVERSITY PHYSICAL FACILITIES DEVELOPMENT UNIT TANAY CAMPUS	PROJECT TITLE: ESTABLISHMENT OF DORMITORY AND BUSINESS CENTER	PREPARED AND DRAWN BY: UPFDU	NOTED BY: STEVE S.J. MILLARE, RE/P HEAD, UPFDU	SUBMITTED BY: BENJIE G. INGCO CHIEF ADMINISTRATIVE OFFICER	RECOMMENDING APPROVAL: RENATO F. DE LEON, Ph.D. VICE PRESIDENT FOR ADMINISTRATION AND FINANCE	APPROVED BY: NANCY T. PASCUAL, Ed. D., RGC PRESIDENT	SHEET NO.: S 4.0
	CHECKED BY: NEL JOSHUA P. BELA CRUZ, RCE ENGINEER, UPFDU						



NOTE :
LOCATION OF RAMP VERIFY @ SITE
(INGRESS/EGRES) FROM THE STREET TO
THE BUILDING OR STRUCTURE SHALL BE
ACCESSIBLE.



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NEL JOSHUA F. DELA CRUZ, RCE
ENGINEER, UPFDU

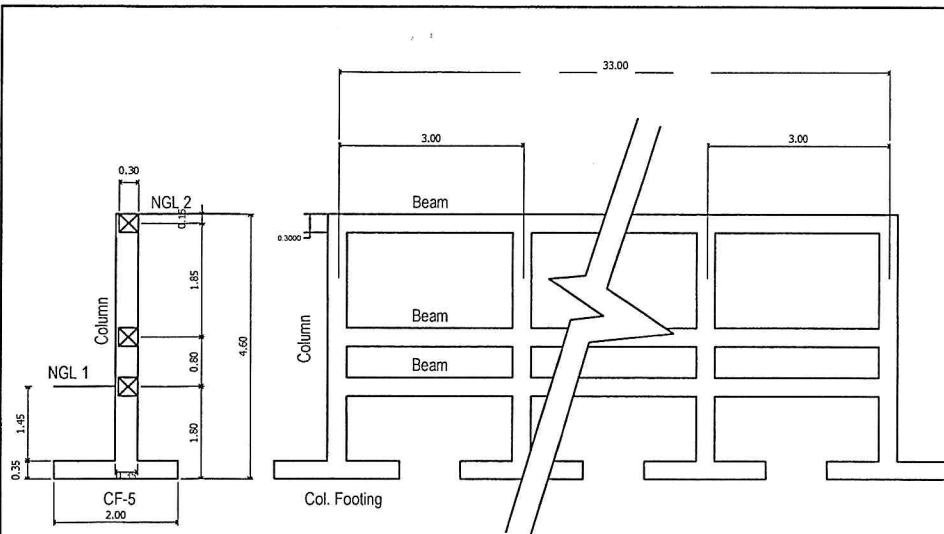
NOTED BY:
STEVE S. J. MILLARE, RErP
HEAD, UPFDU

SUBMITTED BY:
BENJIE G. INGCO
CHIEF ADMINISTRATIVE OFFICER

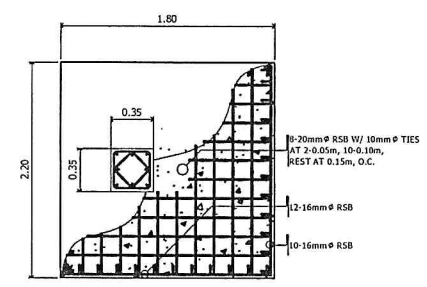
RECOMMENDING APPROVAL:
RENATO F. DELLEMON, Ph.D.
VICE PRESIDENT FOR
ADMINISTRATION AND FINANCE

APPROVED BY:
NANCY T. PASCUAL, Ed. D., RGC
PRESIDENT

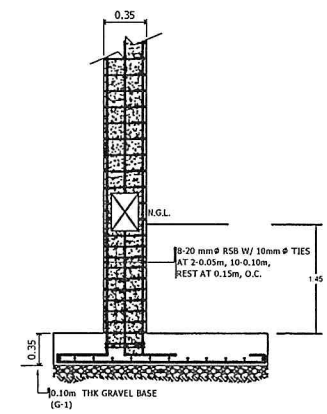
SHEET NO.:
**S
5.0**



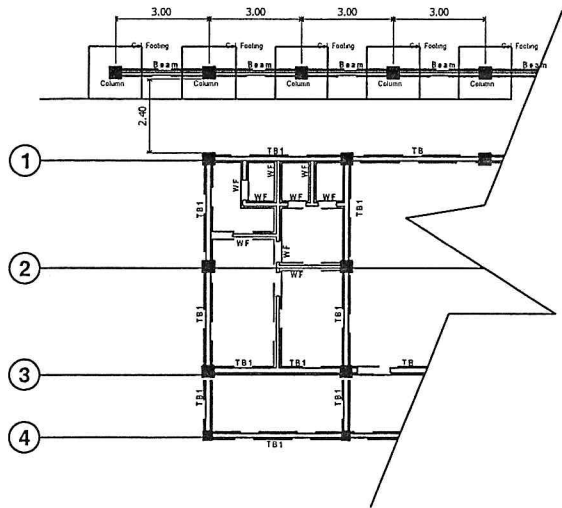
SECTION OF RETAINING WALL
SCALE 1:50 M



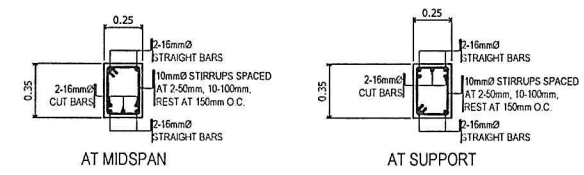
PLAN Col. Footing



Section of Retaining Wall

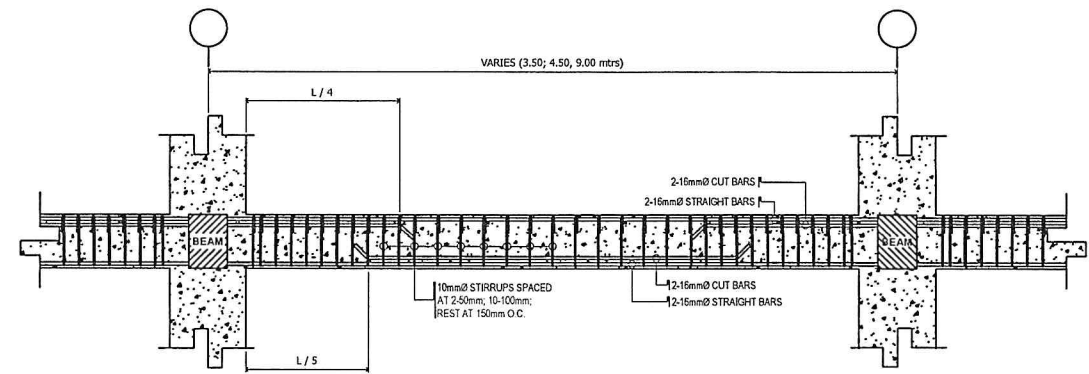


PLAN OF RETAINING WALL
SCALE 1:100 M



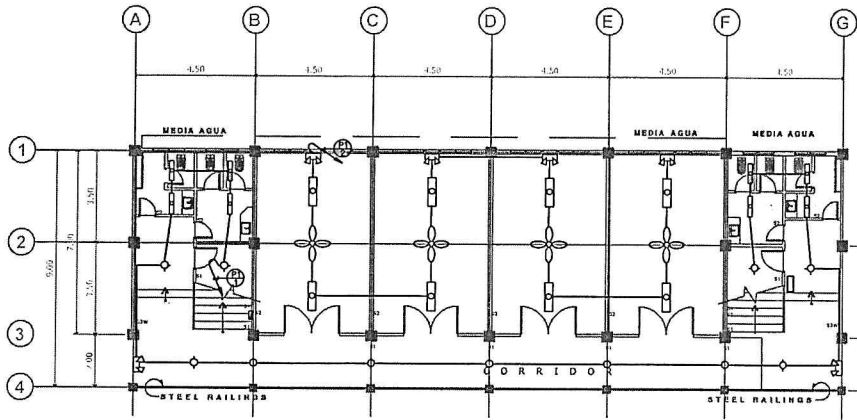
AT MIDSPAN

AT SUPPORT

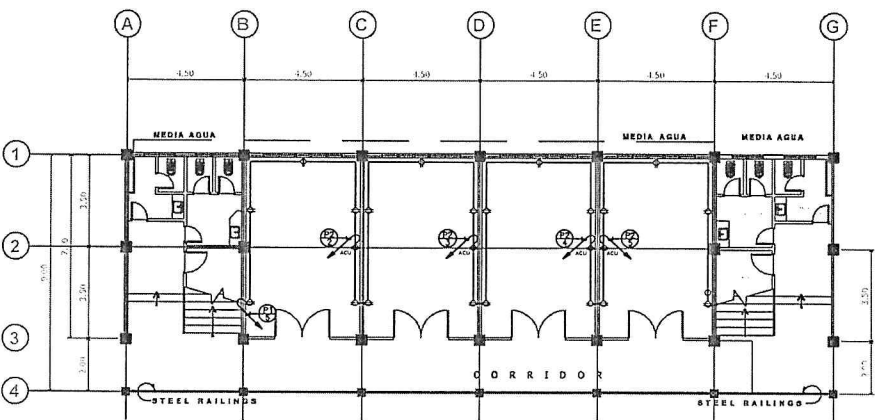


DETAIL OF BEAM
SCALE 1:20 M

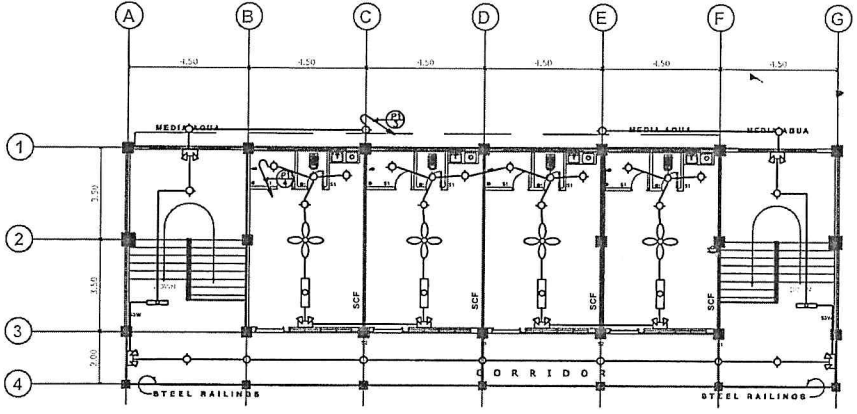
UNIVERSITY OF RIZAL SYSTEM UNIVERSITY PHYSICAL FACILITIES DEVELOPMENT UNIT	PROJECT TITLE:	PREPARED AND DRAWN BY:	NOTED BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET NO.: S 6.0
	ESTABLISHMENT OF DORMITORY AND BUSINESS CENTER TANAY CAMPUS	UPFDU CHECKED BY: NEL JOSHUA DELA CRUZ, RCE ENGINEER, UPFDU	STEVE S.J. MILLARE, RENP HEAD, UPFDU	BENJIE G. INGCO CHIEF ADMINISTRATIVE OFFICER	RENATO F. DE LEMON, Ph.D. VICE PRESIDENT FOR ADMINISTRATION AND FINANCE	NANCY T. PASCUAL, Ed. D., RGC PRESIDENT	



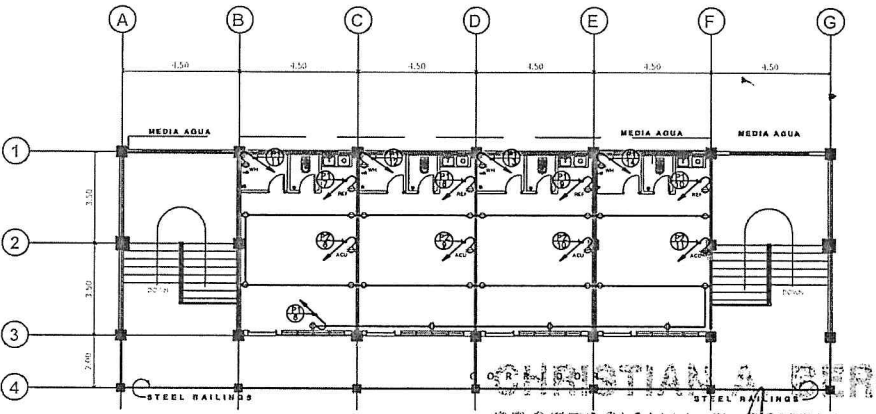
GROUND FLOOR LIGHTING LAYOUT
SCALE NTS



GROUND FLOOR POWER LAYOUT
SCALE NTS



SECOND FLOOR LIGHTING LAYOUT
SCALE NTS



SECOND FLOOR POWER LAYOUT
SCALE NTS

CHRISTIAN A. BERONILLA
PROFESSIONAL ELECTRICAL ENGINEER

PRC No. : 4019
Reg. Date : 05-05-2017
PTR No.
Date Issued
Place: Antipolo City



UNIVERSITY OF RIZAL SYSTEM
UNIVERSITY PHYSICAL FACILITIES DEVELOPMENT UNIT

PROJECT TITLE:
**ESTABLISHMENT OF
DORMITORY AND BUSINESS
CENTER**
TANAY CAMPUS

AS TO ELECTRICAL:
CHRISTIAN A. BERONILLA, P.E.E., M.P.
PROFESSIONAL ELECTRICAL
ENGINEER

NOTED BY:
[Signature]
STEVE S. J. MILLARE, REAP
HEAD, UPFODU

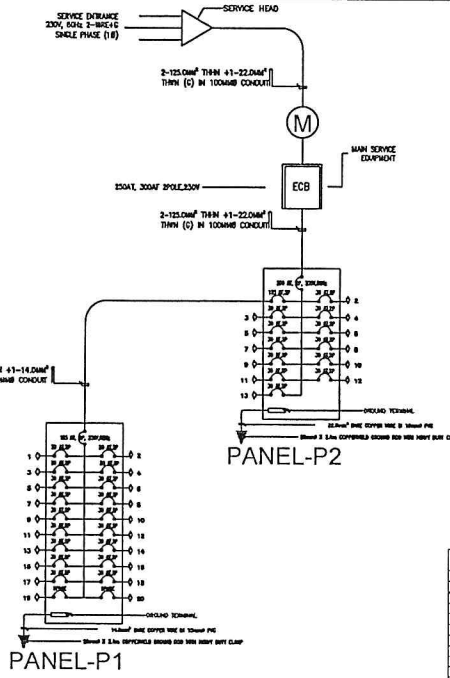
SUBMITTED BY:
[Signature]
BENJIE G. INGCO
CHIEF ADMINISTRATIVE OFFICER

RECOMMENDING APPROVAL:
[Signature]
RENATO F. DE LEMON, Ph.D.
VICE PRESIDENT FOR
ADMINISTRATION AND FINANCE

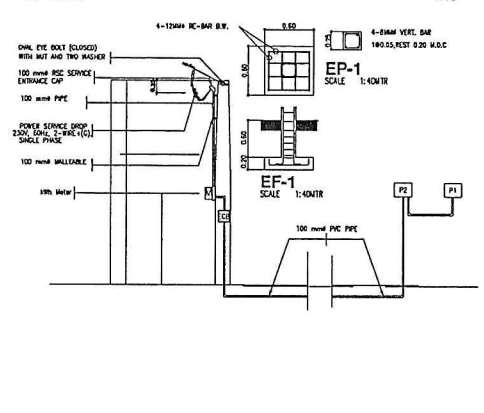
APPROVED BY:
[Signature]
NANCY T. PASCUAL, Ed. D., RGC
PRESIDENT

SHEET NO.:
E
1.0

- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN STRICT CONFORMITY WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (P.E.C.), THE REQUIREMENTS OF THE MANILA ELECTRIC COMPANY (MERALCO), THE RULES & REGULATIONS OF ALL LOCAL & NATIONAL AUTHORITIES CONCERNED IN THE ENFORCEMENTS OF ELECTRICAL LAWS.
- POWER SUPPLY MERALCO SHALL BE 1 ϕ , 2-WIRES + G, 230 VOLTS & 60 HERTZ.
- ALL WORKS HEREUNDER SHALL BE DONE IN CONDUIT RUN. NO CONDUIT SMALLER THAN 1/2" (15mm.Ø) SHALL BE USED. SERVICE ENTRANCE SHALL BE DONE IN RIGID STEEL CONDUIT. BRANCH CIRCUITS AND AUXILIARY SYSTEM SHALL BE DONE IN PVC WITH PROPER GROUNDING.
- MINIMUM SIZE OF WIRES & CONDUITS TO BE USED HEREIN SHALL BE 3.5mm (NO. 12AWG) & 15mm NOMINAL DIAMETER RESPECTIVELY. EXCEPT IN SIGNALLING & COMMUNICATION USING INDUCTION TYPE STEP-DOWN TRANSFORMER, OR SEPARATE DC SOURCE, GROUND WIRE USED HEREIN SHALL BE PROPERLY IDENTIFIED BY USING GREEN INSULATION.
- WIRES & CABLES TO BE USED SHALL BE PURE COPPER WITH 600 VOLTS THERMOPLASTIC INSULATION TYPE TW/THW OR APPROVED EQUAL.
- ALL MATERIALS & EQUIPMENTS TO BE USED SHALL BE BRAND NEW & APPROVED TYPE FOR BOTH INTENDED LOCATION & PURPOSED.
- ALL CONDUIT RUNS SHALL BE CONTINUOUS FROM BOXES TO BOXES COMPLETE WITH PROPER FITTINGS AND SUPPORTS.
- ALL JOINTS AND SPLICES SHALL BE COVERED WITH INSULATIONS EQUAL TO THE INSULATION OF THE BIGGEST WIRE IN THE JUNCTION.
- USE PVC DEEP TYPE UTILITY BOXES FOR CONVENIENCE OUTLETS, SWITCHES, AND AIR-CON OUTLETS, 4-1/16" SQUARE BOXES PVC WITH RISER FOR RANGE OUTLETS AND 4" OCTAGONAL BOXES FOR LIGHT OUTLETS.
- ALL ELECTRICAL EQUIPMENTS HEREIN SHALL BE EQUIPPED WITH PROPER GROUNDING.
- ALL WIRES SHALL BE CONTINUOUS FROM BOXES TO BOXES. NO JOINTS OR SPLICES SHALL BE DONE WITHIN RUNS EXCEPT ON JUNCTION AND PULLBOXES.
- MOUNTING HEIGHTS SHALL BE AS FOLLOWS :
 - CONVENIENCE OUTLETS - 0.30M. ABOVE FLOOR FINISH
 - LIGHT CONTROL SWITCHES - 1.40M. ABOVE FLOOR FINISH
 - TABLE HEIGHT OUTLETS - 0.15M. ABOVE COUNTER FINISH
 - AIRCON OUTLETS - VERIFY FROM THE ARCHITECT
 - PANEL BOARDS - 1.40M. ABOVE FLOOR FINISH AT CENTER UNLESS OTHERWISE REQUIRED BY FIELD CONDITION.
- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN A WORKMAN-LIKE MANNER & SHALL BE UNDER THE DIRECT SUPERVISION FROM A LICENSED, REGISTERED & COMPETENT PROFESSIONAL ELECTRICAL ENGINEER.



SERVICE ENTRANCE DETAILS



LOAD SCHEDULE

CMT.	NO.	LOAD DESCRIPTION	LOAD (kW)	VOLTAGE	CURRENT (A)	CIRCUIT BREAKER (A)	MOUNTING / ENCLOSURE: NEMA 3B	CIRCUIT BREAKER		BRANCH CIRCUIT WIRE	CONDUIT		
								TYPE	SIZE				
1	1	LIGHTING	258	230	1.04			3	10	50	14	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
2	2	LIGHTING	1110	230	4.69			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
3	3	LIGHTING	274	230	1.09			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
4	4	LIGHTING	1148	230	4.89			3	10	50	14	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
5	5	20 1.50W CONVENIENCE OUTLET	2600	230	10.85			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
6	6	20 1.50W CONVENIENCE OUTLET	2600	230	10.85			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
7	7	REFRIGERATOR	358	230	1.53			2	10	50	14	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
8	8	REFRIGERATOR	500	230	2.17			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
9	9	REFRIGERATOR	500	230	2.17			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
10	10	REFRIGERATOR	500	230	2.17			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
11	11	WATER HEATER	1500	230	6.52			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
12	12	WATER HEATER	1500	230	6.52			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
13	13	WATER HEATER	1500	230	6.52			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
14	14	WATER HEATER	1500	230	6.52			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
15	15	PROVISION OFFICE	500	230	2.17			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
16	16	PROVISION OFFICE	500	230	2.17			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
17	17	PROVISION OFFICE	1000	230	4.35			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
18	18	PROVISION OFFICE	1000	230	4.35			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
19	19	SPARE	113	230	0.47			2	10	50	10	15MM ØGA	15MM ØGA
20	20	SPARE	230	230	1.0			2	10	50	10	15MM ØGA	15MM ØGA
TOTAL LOAD			23228	230	97.61			2	10	50	10		

LEGEND :

- 3.6-4.0W BOX TYPE FLUORESCENT FEATURE
- 1.5-4.0W BOX TYPE FLUORESCENT FEATURE
- 1.5-20.0W BOX TYPE FLUORESCENT FEATURE
- 3.6-4.0W BOX TYPE FLUORESCENT FEATURE
- SWITCHES (NATIONAL OR EQUIVALENT)
- CEILING FAN OUTLET OUTLET ONLY, ROOM PORTCELAN SOCKET & FEMALE SOCKET
- SMOKE DETECTOR
- FIRE ALARM CONTROL PANEL
- MANUAL STATION
- EMERGENCY LIGHTING OUTLET, GROUNDING TYPE (NATIONAL OR EQUIVALENT)
- EMERGENCY LIGHTING OUTLET, GROUNDING TYPE (NATIONAL OR EQUIVALENT)
- ADDITIONAL NOTIFICATION UNIT
- SEE NO. FAN CONTROL OUTLET ONLY WITH BLANK COVER, WIRE & TAPPING (N/A) AFTER

CMT.	NO.	LOAD DESCRIPTION	LOAD (kW)	VOLTAGE	CURRENT (A)	CIRCUIT BREAKER (A)	MOUNTING / ENCLOSURE: NEMA 3B	CIRCUIT BREAKER		BRANCH CIRCUIT WIRE	CONDUIT		
								TYPE	SIZE				
1	1	PF1	257.58	230	1.04			3	10	50	14	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
2	2	PF2	1110	230	4.69			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
3	3	PF3	274	230	1.09			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
4	4	PF4	1148	230	4.89			3	10	50	14	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
5	5	PF5	2600	230	10.85			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
6	6	PF6	2600	230	10.85			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
7	7	PF7	358	230	1.53			2	10	50	14	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
8	8	PF8	500	230	2.17			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
9	9	PF9	500	230	2.17			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
10	10	PF10	500	230	2.17			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
11	11	PF11	1500	230	6.52			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
12	12	PF12	1500	230	6.52			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
13	13	PF13	1500	230	6.52			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
14	14	PF14	1500	230	6.52			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
15	15	PF15	500	230	2.17			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
16	16	PF16	500	230	2.17			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
17	17	PF17	1000	230	4.35			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
18	18	PF18	1000	230	4.35			2	10	50	10	2.0.5mm ² x 1.0.5mm ² (G) THW/THAN	15MM ØGA
19	19	PF19	113	230	0.47			2	10	50	10	15MM ØGA	15MM ØGA
20	20	PF20	230	230	1.0			2	10	50	10	15MM ØGA	15MM ØGA
TOTAL LOAD			23228	230	97.61			2	10	50	10		

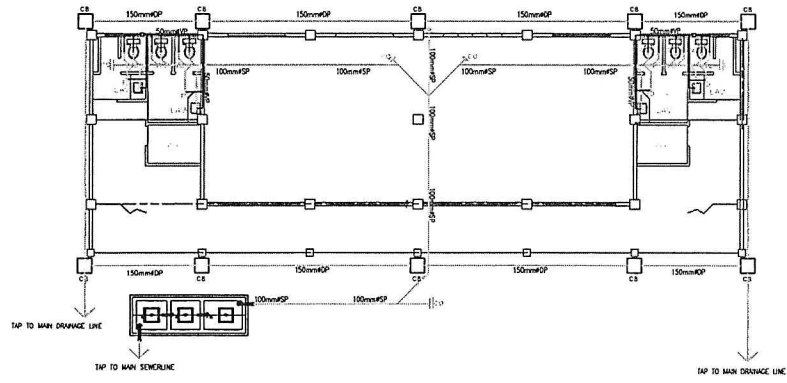
TOTAL VA: 23228
 HIGHEST IFC CONNECTED LOAD: 97.61
 TOTAL IFC CONNECTED LOAD: 433
 HIGHEST CONNECTED MOTOR: 433
 TOTAL CONNECTED LOAD: 1022
 DEMAND FACTOR: 150

MAIN CIRCUIT BREAKER SIZE: 125A @ 200V, 3P, MICEL, 100AIC
 MAIN FEEDER WIRE SIZE: 2.0.5mm² x 1.0.5mm² (G) THW/THAN
 MAIN FEEDER CONDUIT SIZE: 50MM Ø PVC

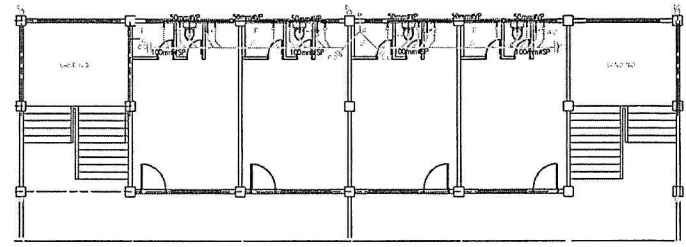
CHRISTIAN A. BERONILLA
 PROFESSIONAL ELECTRICAL ENGINEER

PRC No. : 4019
 Reg. Date : 05-05-2017
 PTR No.
 Date Issued

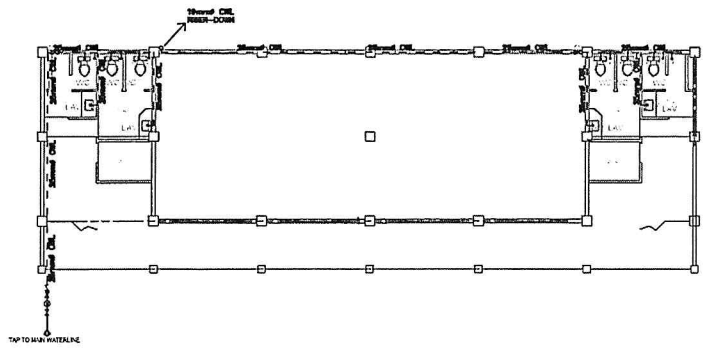
UNIVERSITY OF RIZAL SYSTEM UNIVERSITY PHYSICAL FACILITIES DEVELOPMENT UNIT	PROJECT TITLE: ESTABLISHMENT OF DORMITORY AND BUSINESS CENTER TANAY CAMPUS	AS TO ELECTRICAL: CHRISTIAN A. BERONILLA, P.E.E., M.P. PROFESSIONAL ELECTRICAL ENGINEER	NOTED BY: STEVE S. MILLARE, REnP HEAD, LFDPO	SUBMITTED BY: BENJIE G. INCCO CHIEF ADMINISTRATIVE OFFICER	RECOMMENDING APPROVAL: RENATO G. DE LEON, Ph.D. VICE PRESIDENT FOR ADMINISTRATION AND FINANCE	APPROVED BY: NANCY T. PASCUAL, Ed. D., RGC PRESIDENT	SHEET NO. E 2.0
	EFFECTIVITY DATE: August 15, 2017						



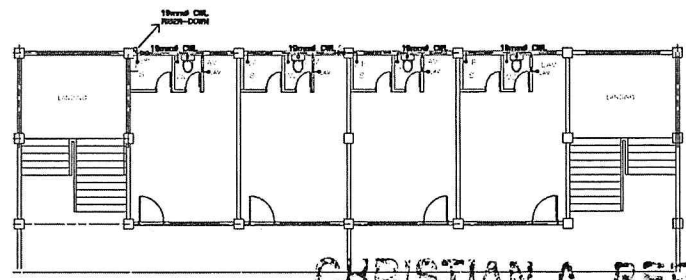
1 SEWER LINE LAYOUT (GROUND FLOOR)
 P-1 SCALE NTS



2 SEWER LINE LAYOUT (2ND FLOOR)
 P-1 SCALE NTS




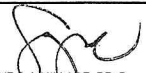
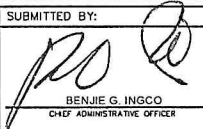


3 WATER LINE LAYOUT (GROUND FLOOR)
 P-1 SCALE NTS

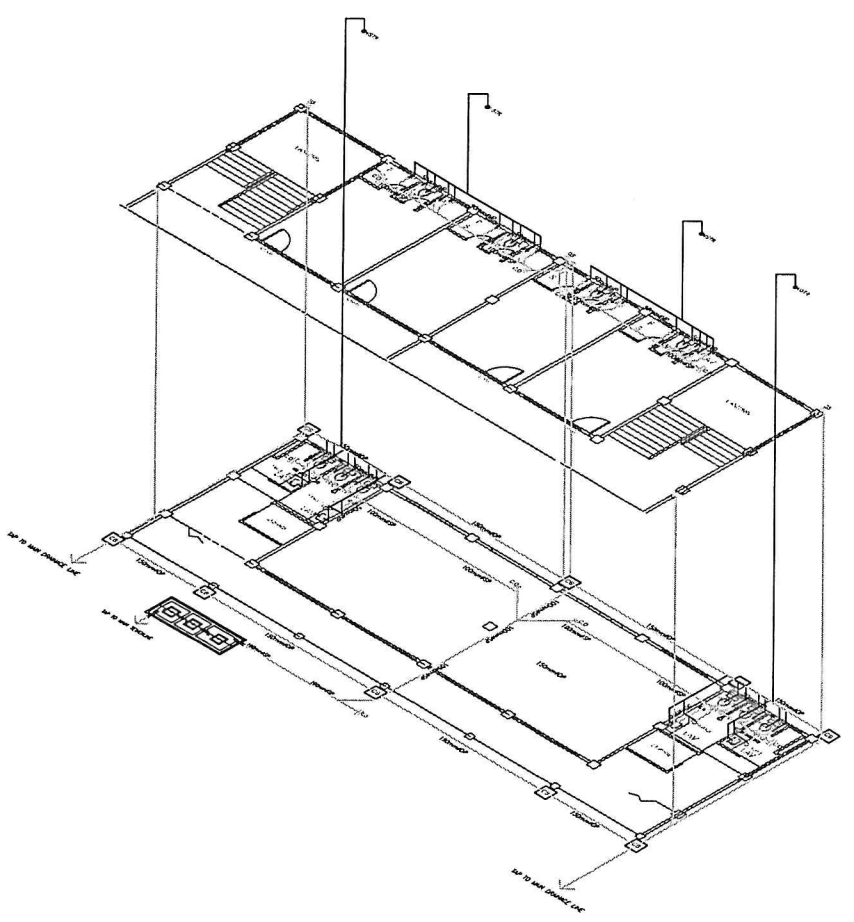


4 WATER LINE LAYOUT (2ND FLOOR)
 P-1 SCALE

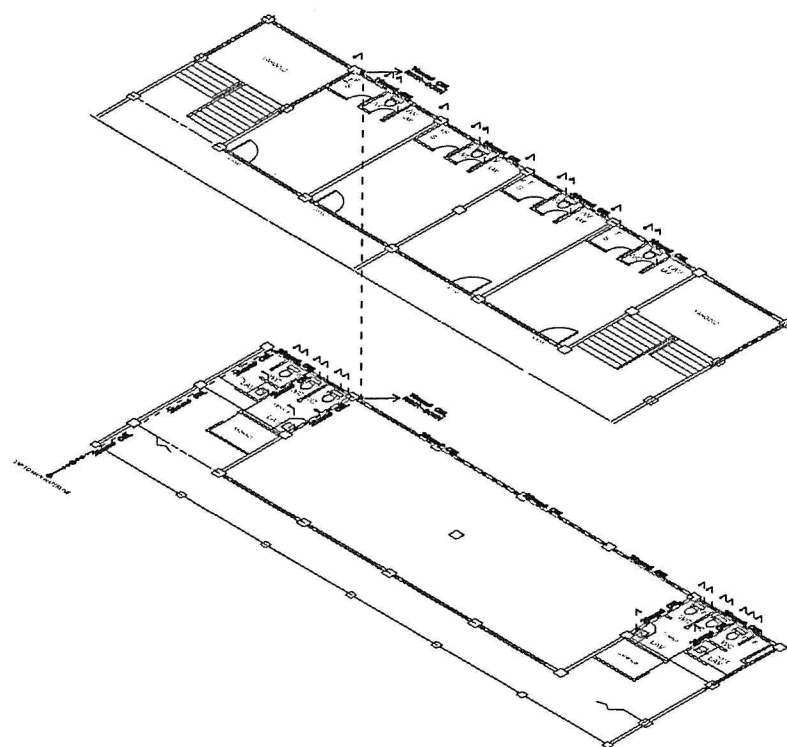
CHRISTIAN A. BERONILLA
 REGISTERED MASTER PLUMBER

PHC No. 9039
 REG. No. 100-125-946
 Reg. Date 08-04-2016
 Date Issued
 Place Issued: Antipolo City

 UNIVERSITY OF RIZAL SYSTEM UNIVERSITY PHYSICAL FACILITIES DEVELOPMENT UNIT	PROJECT TITLE: ESTABLISHMENT OF DORMITORY AND BUSINESS CENTER TANAY CAMPUS	AS TO MASTER PLUMBER: CHRISTIAN A. BERONILLA, P.E.E., M.P. MASTER PLUMBER	NOTED BY:  STEVE S. J. MILLARE, RE/P HEAD, UP/GO	SUBMITTED BY:  BENJIE G. INGCO CHIEF ADMINISTRATIVE OFFICER	RECOMMENDING APPROVAL:  RENATO F. DE LEON, Ph.D. VICE PRESIDENT FOR ADMINISTRATION AND FINANCE	APPROVED BY:  NANCY T. PASCUAL, Ed. D., RGS PRESIDENT	SHEET NO.: P 1.0
	URS-AF-AS-PFD-F-2017-08						



1 SEWER LINE & VENT ISOMETRIC LAYOUT
 P-2 SCALE NTS



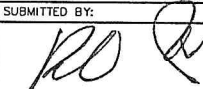

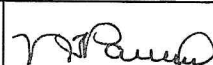



2 WATERLINE ISOMETRIC LAYOUT
 P-2 SCALE

CHRISTIAN A. BERONILLA
 REGISTERED MASTER PLUMBER

PRC No. : 9039
 Reg. Date : 08-04-2015

PTR No. :
 Date Issued :

 UNIVERSITY OF RIZAL SYSTEM UNIVERSITY PHYSICAL FACILITIES DEVELOPMENT UNIT	PROJECT TITLE: ESTABLISHMENT OF DORMITORY AND BUSINESS CENTER TANAY CAMPUS	AS TO MASTER PLUMBER: CHRISTIAN A. BERONILLA, P.E.E., M.P. MASTER PLUMBER	NOTED BY:  STEVE S.J. MILLARE, RE/P HEAD, UFDU	SUBMITTED BY:  BENJIE G. INGCO CHIEF ADMINISTRATIVE OFFICER	RECOMMENDING APPROVAL:  RENATO F. DELEMON, Ph.D. VICE PRESIDENT FOR ADMINISTRATION AND FINANCE	APPROVED BY:  NANCY T. PASCUAL, Ed. D., REG. PRESIDENT	SHEET NO.: P 2.0
	APPROVED BY: 						

SANITARY GENERAL NOTES:

- ALL DRAINAGE WORKS HEREIN SHALL CONFORM WITH LATEST PROVISIONS OF PHILIPPINE PLUMBING CODE & THE LOCAL AUTHORITIES CONCERNED.
- BEFORE PERFORMING ANY WORK, CONTRACTOR SHALL THOROUGHLY EXAMINE ALL EXISTING CONDITIONS, POINTS OF CONNECTION, SIZES, DEPTHS, LOCATION AND ETC.
- PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING PIPES AND STRUCTURES AS VERIFIED BY CONTRACTOR.
- COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
- DRAWINGS ARE DIMENSIONAL AND DOES SHOW ALL OFFSETS, BENDS, ELBOWS, ETC. WHICH MAYBE REQUIRED FOR PROPER INSTALLATION OF WORK, SUCH WORK SHALL BE PROVIDED WITH ADDITIONAL BENDS AND OFFSETS AS NECESSARY AND VERIFIED AT BUILDING SITE.
- MAINTAIN A SLOPE OF 2% FOR SEWER LINE & 0.05% (COLLECTOR PIPES) TO 1% FOR DRAINAGE LINE.
- HORIZONTAL DRAINAGE PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AND A UNIFORM SLOPE OF 2% WHERE IT IS IMPRACTICAL DUE TO DEPTH OF THE EXISTING SEWER MANHOLE OR TO THE STRUCTURAL FEATURES OF THE BUILDING TO OBTAIN A SLOPE OF 2% ANY SUCH PIPE OR PIPING 100mm dia. OR LARGER MAY HAVE A SLOPE OF 1% UNLESS OTHERWISE INDICATED IN THE DRAWING.
- ALL VENTS AND BRANCH VENT PIPES SHALL BE FREE FROM DROP OR SAGS, AND EACH VENT SHALL BE GRAZED AND CONNECTED AS TO DROP BACK BY GRAVITY TO THE DRAINAGE PIPE IT SERVICES.
- INSTALLATION & TESTING SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DAILY LICENSED SANITARY ENGINEER OR MASTER PLUMBER.
- ALL DRAWINGS SHALL BE SUPPLEMENTARY TO THE PLUMBING SPECIFICATIONS. REFER TO SPECIFICATION FOR PRODUCT DESCRIPTION, CONTRACTOR'S SCOPE OF RESPONSIBILITIES AND PERTINENT DATA NEEDED FOR THE COMPLETION OF THE PROJECT.
- ALL MATERIALS SHALL BE NEW AND APPROVED TYPE. CLEANOUT SHALL BE SUPPLIED EVERY 45' BEHND. ALL DRAIN SHALL BE VENTED INDIVIDUALLY.
- ALL PIPING SHALL BE AS MUCH AS POSSIBLE CONCEALED. ANY REVISIONS OR RELOCATION SHALL BE UPON THE APPROVAL OF THE ENGINEER.
- SEWAGE TREATMENT PLANT DESIGN AND BUILD BY STP CONTRACTOR.

DOMESTIC WATER GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT OTHERWISE SHOWN.
- INDICATED METRIC EQUIVALENT USED ON THESE PLANS FOR PIPE SIZES:
 $2" = 50mm$ $4" = 100mm$ $10" = 250mm$
 $2 \frac{1}{2}" = 65mm$ $6" = 150mm$
 $3" = 75mm$ $8" = 200mm$
- THE PIPE MINIMUM DESIGN PRESSURE SHALL BE 10.57 kg/cm² (150 PSI) UNLESS OTHERWISE SHOWN OR SPECIFIED.
- THE WATERLINE SHALL HAVE A MINIMUM COVER OF 1000mm AND 750mm FOR TRANSMISSION LINE AND DISTRIBUTION LINE RESPECTIVELY.
- PIPE UNDER ROADS, DRAINAGE STRUCTURES AND/OR CULVERTS WITH LESS THAN THE MINIMUM SPECIFIED COVER SHALL HAVE CONCRETE ENCASEMENT, UNLESS OTHERWISE SHOWN OR SPECIFIED BY THE ENGINEER.
- CONCRETE THRUST BLOCKS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD DETAIL DRAWINGS AT ALL BENDS, TEES, VALVES, REDUCERS AND FLANGES EXCEPT WHERE WELDED JOINTS ARE SHOWN OR SPECIFIED.
- PIPE JOINTS MAY BE DEFLECTED WITHIN THE LIMITS RECOMMENDED BY THE MANUFACTURER.

LEGEND & SYMBOLS

SYMBOLS	DESCRIPTIONS	SYMBOLS	DESCRIPTIONS
	COLD WATER SUPPLY PIPE		WATER PUMP
	HOT WATER PIPE		WATER METER
	SEWER PIPE		FLOOR IN
	VENT PIPE		FLOOR CLEANOUT
	PIPE UP		FLOOR DRAIN
	PIPE DOWN		GROUND CLEANOUT
	COLD WATER LINE JUMPER		CHECK VALVE
	HOLE BRIDGE		GATE VALVE
	CLEANOUT		DIRTY STRAINER
	VENT STACK		
	DIRTY BASIN		
	GREASE TRAP		

EQUIPMENT SCHEDULE

DESCRIPTION	QTY	TYPE	MARKET	VENUE	PRICE	NOTE
SEWAGE PUMP	1	VERTICAL-SH-UP PUMP	30 GPM 200V 1.5HP	20	1	20
EXPANSION TANK DOMESTIC WATER	1	HYDRO-PNEUMATIC TANK				

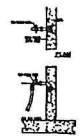
*FOR HYDRO-PNEUMATIC TANK CAPACITY, YOU SHOULD REFER TO PUMP SUPPLIER.

PIPE SCHEDULE

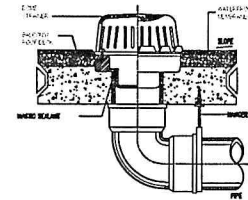
PIPELINE	PIPE SIZES (mm)
WATER CLOSET	100
LANDSET	75
FLOOR DRAIN	75

PIPELINE	PIPE SIZES (mm)
WATER CLOSET	100
LANDSET	75
WIND SPYRE	100
BRANCH	75
LANDSET	75
WATER SHINE	75
WATER SH	75

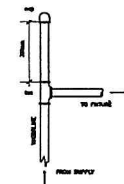
PIPELINE	PIPE SIZES (mm)
WATER CLOSET	100
WATER SHINE	75
LANDSET	75



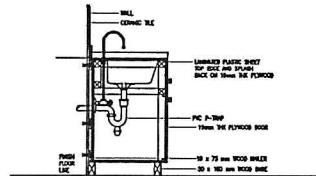
FAUCET PLAN & SECTION



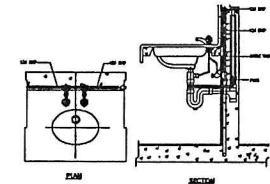
TYPICAL DETAIL OF BALCONY/LEDGE DRAIN



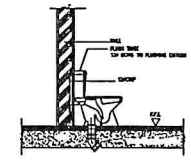
AIR CHAMBER DETAIL



KITCHEN COUNTER



LAVATORY PLAN & SECTION



WATER CLOSET SECTION

EQUIPMENT SCHEDULE

DESCRIPTION	QTY	TYPE	MARKET	VENUE	PRICE	NOTE
SEWAGE PUMP	1	VERTICAL-SH-UP PUMP	30 GPM 200V 1.5HP	20	1	20
EXPANSION TANK DOMESTIC WATER	1	HYDRO-PNEUMATIC TANK				

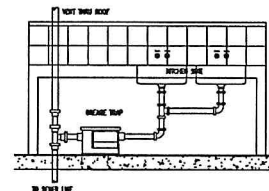
*FOR HYDRO-PNEUMATIC TANK CAPACITY, YOU SHOULD REFER TO PUMP SUPPLIER.

PIPE SCHEDULE

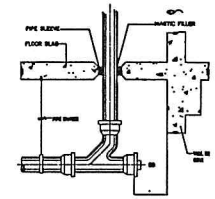
PIPELINE	PIPE SIZES (mm)
WATER CLOSET	100
LANDSET	75
FLOOR DRAIN	75

PIPELINE	PIPE SIZES (mm)
WATER CLOSET	100
LANDSET	75
WIND SPYRE	100
BRANCH	75
LANDSET	75
WATER SHINE	75
WATER SH	75

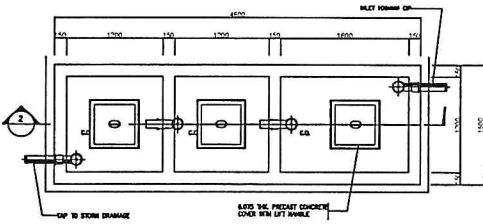
PIPELINE	PIPE SIZES (mm)
WATER CLOSET	100
WATER SHINE	75
LANDSET	75



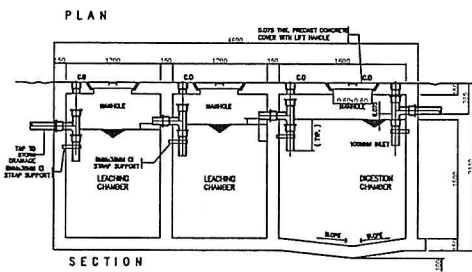
TYPICAL GREASE TRAP DETAIL



TYPICAL CEILING CLEAN OUT DETAIL



SEPTIC TANK DETAIL
SCALE NTS



SECTION

CHRISTIAN A. BERONILLA
 REGISTERED MASTER PLUMBER
 PHC No. : 9739
 SECTION AA
 Reg. Date : 08-04-2015
 TIN No. : 400-125-046
 Date Issued :
 Piece Issued : Antipolo Cir.

<p>UNIVERSITY OF RIZAL SYSTEM UNIVERSITY PHYSICAL FACILITIES DEVELOPMENT UNIT</p>	<p>PROJECT TITLE: ESTABLISHMENT OF DORMITORY AND BUSINESS CENTER TANAY CAMPUS</p>	<p>AS TO MASTER PLUMBER: CHRISTIAN A. BERONILLA, P.E.E., M.P. MASTER PLUMBER</p>	<p>NOTED BY: STEVE S. MILLARE, REnP HEAD OFFICE</p>	<p>SUBMITTED BY: BENJIE G. INGO CHIEF ADMINISTRATIVE OFFICER</p>	<p>RECOMMENDING APPROVAL: RENATO F. DE LEMON, Ph.D. VICE PRESIDENT FOR ADMINISTRATION AND FINANCE</p>	<p>APPROVED BY: NANCY T. PASCUAL, Ed. D., REnC PRESIDENT</p>	<p>SHEET NO.: P 3.0</p>
	<p>URS-AF-AS-PFD-F-2017-08 Rev. 00 Effectivity Date: August 15, 2017</p>						