



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF BUDGET AND MANAGEMENT  
GENERAL SOLANO STREET, SAN MIGUEL, MANILA

**SUPPLEMENTAL/ BID BULLETIN (SBB) NO. 2**

This SBB No. 2 dated December 21, 2017 for the Project, "Renovation of the DBM Arcache Building," is issued to clarify, modify or amend items in the Bidding Documents. Accordingly, this shall form an integral part of said Documents.

PARTICULARS	CLARIFICATION/AMENDMENTS
<b>Section VI. Specifications</b>	<b>Section VI. Specifications</b>  <b>Additional Specifications (Supplemental No. 2)</b>  ➤ Please refer to the attached additional specifications.
<b>Section VII. Drawings</b>  <b>Revised Drawings (Supplemental No. 2)</b>	<b>Section VII. Drawings</b>  <b>Revised Drawings (Supplemental No. 2)</b>  <b>Bid Bulletin No. 2 Plans</b>  ➤ Please refer to the attached Revised Drawings and their respective superseded plans.

**Other matters:**

- The "No Contract Rule" shall be strictly observed. Bidders are not allowed to call or talk to any member of the Bids and Awards Committee, Technical Working Group or Secretariat effective December 28, 2017 right after the opening of bids.
  
- For guidance and information of all concerned.

**CLARITO ALEJANDRO D. MAGSINO**  
*Chairperson, DBM-BAC*

*Section VI. Specifications  
(Supplemental No. 2)*

### **ADDITIONAL SPECIFICATIONS: 10400 IDENTIFYING DEVICES**

#### **A) MAIN BUILDING SIGNAGE:**

1. STAINLESS STEEL SIGNAGE: Type 304, built-up, 3 mm (1/8") thick front plate and 1.0 mm (gauge 20) thick side plates, 38-50 mm average stroke. Size of anchorage dowels shall be as required for the fixation of masonry surface. For main building identification lettering at facade, to be approved by Owner.

For Stainless Steel Main Building Signage Lettering:  DBM ARCACHE BUILDING	a) Stainless Steel Letters Ht of letter – 300mm Depth of letter = 50mm Average Stroke = 38mm to 50mm
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#### **B) DBM LOGO:**

1. STAINLESS STEEL LOGO: 1.2 M diameter, colored, etched type 304, built-up stainless steel logo; 3 mm (1/8") thick front plate and 1.0 mm (gauge 20) thick side plates. Size of anchorage dowels shall be as required for the fixation of masonry surface. For main lobby, to be approved by Owner.

For Stainless Steel Main Lobby Logo:  Use Official DBM Logo	a) Stainless Steel Logo Diameter – 1.20 meters Depth of logo = 50mm
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### **REVISED SPECIFICATIONS: 10400 IDENTIFYING DEVICES**

For Room I.D. Etched Lettering on 4.5mm Acrylic Sheet, 1 Set Each per room:  For all moulded doors	b) Letters Ht of letter = 60mm Ht of Background = 100mm min.
For Etched Graphic Signage on Acrylic Sheet; 1 set each per toilet	c) Acrylic Graphic Signages Ht = 100 mm
Glass Etching Signage For all glass doors	b) Letters Ht of letter = 60mm Ht of Background = 100mm min.

# ***Revised Drawings***

*(Supplemental No. 2)*

## **1.0 ADDITIONAL DRAWINGS**

SHEET NO.	REVISIONS	BID BUL NO.
P-01	Septic tank details	BB2-01
P-03	STP tank resized	BB2-02
P-05	Additional hose bib at Generator room	BB2-03
P-07	Additional transfer pump at Roof deck for Elevated Grey water tank	BB2-04
P-18	Riser diagram for non-potable water line	BB2-05
M-02		BB2-06
M-03	Revise equipment schedule for wall exhaust fan	BB2-07
M-04	Re- route of ducting and refrigerant pipes	BB2-08
M-05		BB2-09
M-06	Additional exhaust fan on plan	BB2-10
FP-01		BB2-11
FP-02	Reroute of sprinkler pipes and additional wet stand pipe	BB2-12
FP-03		BB2-13
FP-04		BB2-14
FP-05	Detail of fire pump	BB2-14A
E-01	Revised electrical riser diagram - see notes on plan	BB2-15
E-02	Revised load schedule	BB2-16
E-03	Revised load schedule	BB2-17
E-04	Revised load schedule	BB2-18
E-05	Revised load schedule	BB2-19
E-06	Additional outlet provisions	BB2-20
E-07	Additional outlet provisions	BB2-21
E-10		BB2-22
AUX-01	Additional CCTV's at riser diagram	BB2-24
AUX-05	Additional CCTV's at entrance door and back door	BB2-25
AUX-06	Additional CCTV's at Fire Exit stair and stairs	BB2-26

## **2.0 REVISED DRAWINGS**

- A) The following sheets are additional drawings:

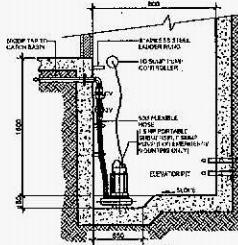
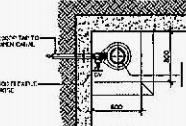
SHEET NO.	REVISIONS	BID BUL NO.
E-11	Additional details for Solar Panel	BB2-23

## GENERAL NOTES:

- ALL PLUMBING WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PHILIPPINE PLUMBING CODE, THE NATIONAL BUILDING CODE, AND THE RULES AND REGULATIONS OF LOCAL GOVERNMENT AUTHORITIES CONCERNING PLUMBING.
- ALL CONTRACTOR SHALL HAVE A CURRENT SUPERVISION OF LICENSE AND REGISTERED MASTER PLUMBER OR PLUMBING INSPECTOR.
- ALL DIMENSIONS ARE IN MILLIMETERS.
- ALL WORKS SHALL CONFORM TO BUILDING OWNER REQUIREMENTS AND ASSESSED AS AND AT SITE CONDITIONS INCLUDE ALL COSTS FOR DESIGN NEEDED TO COMPLETE THE SYSTEM.
- ALL PLUMBING WORKS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, BUT SHALL NOT EXCEED THAT OF ANY CONSEQUENCE FOUND THEREIN.
- ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS, ANY RELOCATIONS REQUIRED FOR PROPER EXECUTIONS OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ARCHITECT OR DESIGNER.
- PROPOSED MAINTAINING SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTOR.
- ALL PARTS FOR PLUMBING ACCESSORIES SHALL BE MANUFACTURED IN MATERIALS OTHER THAN SPECIFIED.
- ALL SCAFFOLDING, PORTABLE SCAFFOLDING, LADDERS, SHORING, ROPE AND TACKLES SHALL BE PROVIDED BY THE CONTRACTOR.
- SIZES OF SUPPLY AND WATER SUPPLY PIPE DIA TO FEATURING SHALL BE AS PER SPECIFICATION AND THE MANUFACTURER'S INSTRUCTIONS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES LOCATIONS, THE WORKS WITH THE SEWER LINE, EXISTING SEWAGE, PORT, AND WATERLINE SERVICE CONNECTING POINT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE COORDINATION, PRE-FABRICATING, SHOP DRAWINGS, FIXTURES AND EQUIPMENT DIMENSION VERIFICATION, INSPECTION OR HOME TESTER, ARCHITECT ENGINEER FOR ANY TECHNICAL MAINTENANCE PROBLEMS OCCURRING ON OR ON SITE.
- THE CONTRACTOR SHALL INCLUDE ALL COSTS EXPENSES NECESSARY TO COMPLETE THE SYSTEM AND TESTING IS DUE TO THE BUILDER OWNER, INCLUDING PLATE CURING SERVICES IF REQUIRED.
- ALL GREASE TRAP STATIONALITY SHALL BE PROVIDED WITH WATER INLET AND OUTLET AND CLEAR OUT BEFORE TAPPING POINT.
- CLEAN OUT SHIMMER SHALL BE INSTALLED NOT TO EXCEED 15 METERS ON STRAIGHT RUN AND FOR EACH SECTION SHALL NOT EXCEED 150 MM.
- ALL LEAD COKING OR PIPE RESTRAINTS SHALL BE EPOXY SEALED AND PROPERLY RESTORED AND WATERPROOF BY CONTRACTOR.
- CONTRACTORS SHALL BE RESPONSIBLE FOR SEWAGE, DRAINAGE, RELEASES OF EXISTING SEWER, WATER AND WATERED UPS TO BLDG. LINE, ALL EXPENSES ACCOUNT OF CONTRACTORS.
- ALL PLUMBING PIPE AND EQUIPMENT SHOULD BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE AND HAVE A SUFICIENT VOLUME CLEARANCE OR SPACE FOR MAINTENANCE / REPAIR WORKS.
- ALL SEWER/WATERDRAIN'S SHALL BE PROVIDED WITH 20MM (1") THICK CLASS DELL ELASTOMERIC THERMOPOLYURETHANE APPROVED DOLY FLOOR PRECASTED SLAB CLOTHING PIPES PRECAST DRUM OR DRUM LINE FOR CIV. ON APPROVED LOCATIONS NO DOUBLE TRAM SHALL SECURE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHIPPING WORKS, EXCAVATION WORKS AND INSTALLATION OF PLUMBING PIPES AND FIXTURES, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT.
- USE DIA 150 MM DIA FOR FLUSHING TUBE, SIZE OF OTHERS AS SPECIFIED IN SPECIFICATIONS.
- THE BUILDING OWNER/CONTRACTOR SHALL MAINTAIN PLUMBING AND EQUIPMENT BY HIS PERSONS AS ACCORDING TO THE SANITARY AND SEWER OPERATING CONVENTION.
- ALL COST OF CONSTRUCTION, SITE PREPARATION AND PLUMBING WORKS SHALL BE SHARED AND LOAD BY THE CONTRACTOR AND THE GENERAL CONTRACTOR.
- WATER PIPE LINES SHALL BE SPANNED ABOVE THE LINE OF SEWER OR DRAINAGE PIPES. DISTANCE OF 300MM BETWEEN WATER PIPE AND SEWER OR DRAINAGE PIPE IS PLACE WITH SAME TRENCH.
- PLUMBING CONTRACTOR SHALL VERIFY AND INVESTIGATE THE ACTUAL PIPE SLOPES AND DIRECTION OF WATER SEWER LIQUID FLOW PRIOR TO START OF PIPE INSTALLATION.
- PLUMBING CONTRACTOR SHALL HAVE A COPY OF THE MECHANICAL PLANS (ACORN ORDER, VENTILATION DUCTS, GAS POLE, ETC) SPECIALLY Embedded WITHIN CHIM WALL AND MAKE AN ADJUSTMENT ON SITE WITHOUT ANY ADDITIONAL COST TO OWNER.
- PLUMBING CONTRACTOR SHALL SUBMIT A TEST CERTIFICATE AND COMPLETION CERTIFICATE ONLY SIGNING ON THE DATE OF COMPLETION.
- THE PLANS AND DRAWINGS LAYOUTS OF ANY MATERIALS AND FITTINGS NOT SHOWN ON THIS PLAN BUT NEEDED TO COMPLETE THE SYSTEM OF OPERATION SHALL BE INCLUDED WITH CONTRACTOR'S SCOPE OF WORKS.
- MANAGED PLUMBING CONTRACTOR SHOULD CONDUCT A FINAL INSPECTION (EXCEPT below SLAB) OF ALL EXISTING PLUMBING PIPES, EXISTING MECHANICAL DUCT PIPES, EXISTING ELECTRICAL PIPES AND OTHER UTILITIES LAYOUTS.
- PLUMBING CONTRACTOR TO MAKE ACTUAL SURVEY ELEVATION AND SPACING OF PLUMBING PIPES IN ORDER TO 1% - 1.5% SLOPES AND DIRECTIONS AS CO-ORDINATE.
- PLUMBING CONTRACTOR IS RESPONSIBLE TO GET DRAINS PERMIT AND APPROVAL OF PERMITTING OF PLUMBING LAYOUTS WITH BLDG OWNER/ENGINEER.
- PROVIDE SUITABLE FLOOR DRAINS AT ROOF DRAIN AREA.
- PLUMBING CONTRACTOR TO COORDINATE WITH ELEC. CONTRACTOR TO PROVIDE SUFFICIENT SLOPES IN RELATION TO 100mm DRAIN.
- PIPE COATING SHOULD BE ELECTRICAL PIPE - GREEN, COMMUNICATION PIPE - TEAL, HOT WATER PIPE - BLUE, HOT WATER PIPE - BLUE WITH STRIP, VENT PIPE - GREEN, AND SEWER PIPE - BLACK.
- MATERIAL SPECIFICATIONS:
- MATERIALS: PVC PIPE AND POLYVINYL CHLORIDE (PVC) SDR 10 GRAND SERIES 900 OR EQUAL. CONFORM TO B03 STANDARD AND HEAVY DUTY B03 Q345.
  - STRUCTURE: PE-100 AND PE-200 BY "AMCO" OR PROVIDED BY CONTRACTOR.
  - END FINISH: PE-100 END FINISH, PE-200 END FINISH, PE-100 END FINISH, PE-200 END FINISH.
  - MATERIALS: CADAR, KOTSON, P.T. REINFORCED, ALL BISQUE, female threaded, minimum of 115PSI working pressure, similar to 12MM GIAR OR PVC/PPR EQUAL.
  - LINE: PE-100 FOR WASTE, EFFLUENT, DRAINS, SEWAGE, DRAINAGE AND TOILET, & PLUMBING CONNECTION AND SOLE, BE 300MM.
  - SIMILAR TO "102" SCAUD OR APPROVED EQUAL.
  - STRUCTURE: PE-100 END FINISH BY "METAL" GRAIN OR APPROVED EQUAL.
- ALL REINFORCED MANUFACTURED BY "METAL" GRAIN OR APPROVED EQUAL.

LEGENDS:	ABREV.	DESCRIPTION
GALAC	CV/LAG	COLD WATER LINE ABOVE CEILING
HWA/C	HWAC	HOT WATER LINE ABOVE CEILING
GV	GATE VALVE	
CV	CHECK VALVE	
	V/PLUG	WATER LINE WITH PLUG
CV/W	COLD WATER W/	COLD WATER LINE
SP/W/P	SPI/W/P	SOLID PIPE/WASTE PIPE
DP	DP	DRAIN PIPE
SS	SOIL STACK	
VS	VENT STACK	
VP/VAC	VP/VAC	VENT PIPE ABOVE CEILING
VSUR	VSUR	VENT STACK THRU ROOF
FCO	FLUOR CLEANOUT	
FD	FLOOR DRAIN/URINAL TYPE	
	PIPE DRAIN	
LAV	LAVATORY	
WC	WATER CLOSET	
UR	URINAL	
KS	KITCHEN SINK	
HO	HOSE HOSE	
F	FAN	
FCU	FAN COIL UNIT	
A.C.	ABOVE CEILING	
B.F.	BELLOW FLOOR	
CB	CATCH BASIN	
AD	AREA DRAIN	
DS	DOWNSPERM	
GD	GUTTER DRAIN	
FC	FLEXIBLE CONNECTOR	
BV	BUTTERFLY VALVE	
FW	FLOW VALVE	
MWH	MULTIPOINT WATER HEATER	
WCO	WALL CLEANOUT	
GEO	GROUND CLEANOUT	

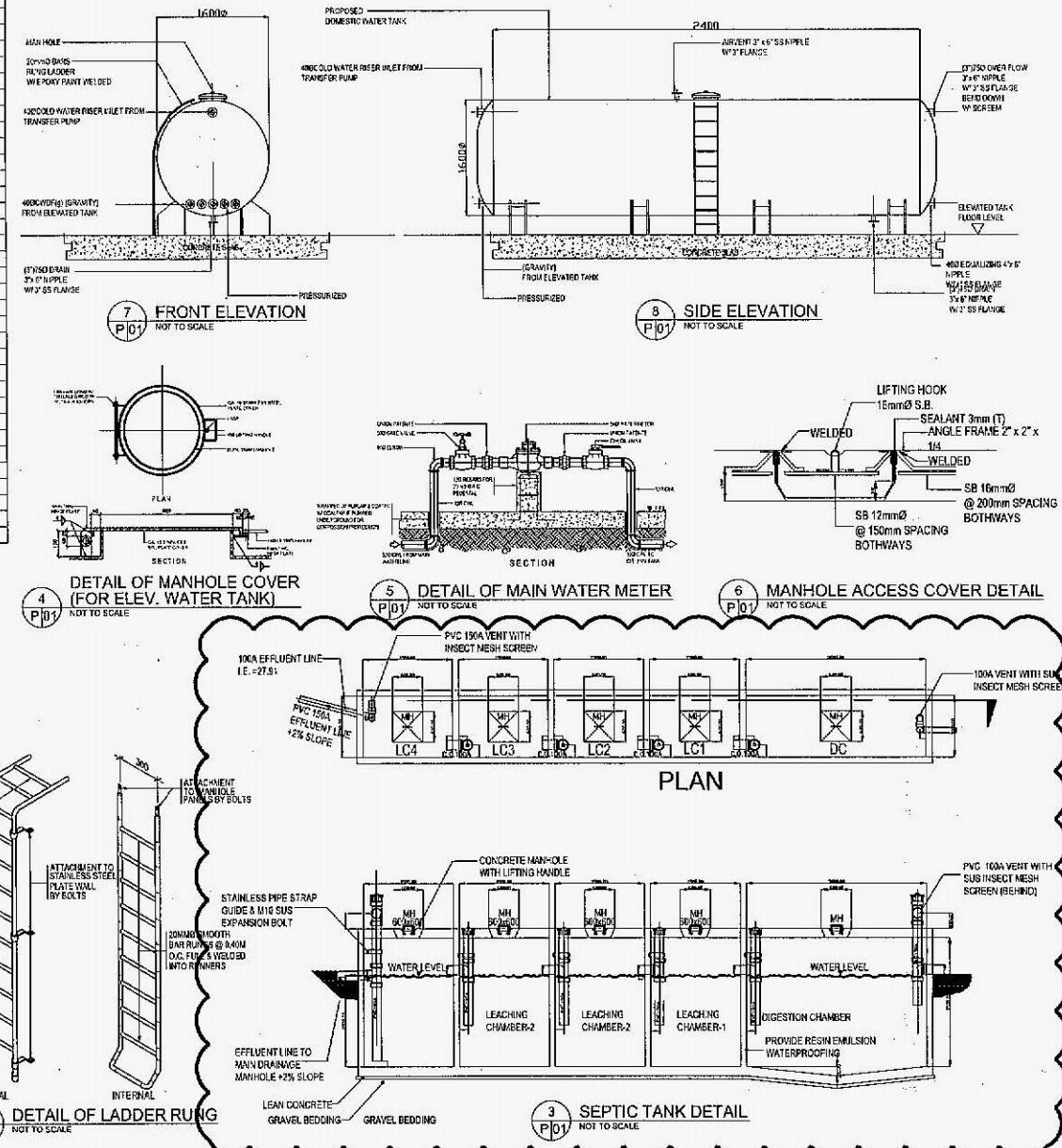
NOTE: PLUMBING PIPES AND ACCESSORIES  
REINFORCED PIPES SHALL ALLOW TO CROSS OR PASS  
THROUGH ELECTRICAL ROOMS, GENERATOR ROOM,  
BATHROOM, KITCHEN, DRESSING ROOM,  
CLOSET, ETC., TO PURPOSE WATER LEAK PROTECTION  
AS PER THE APPROPRIATE ELECTRICAL CODE.

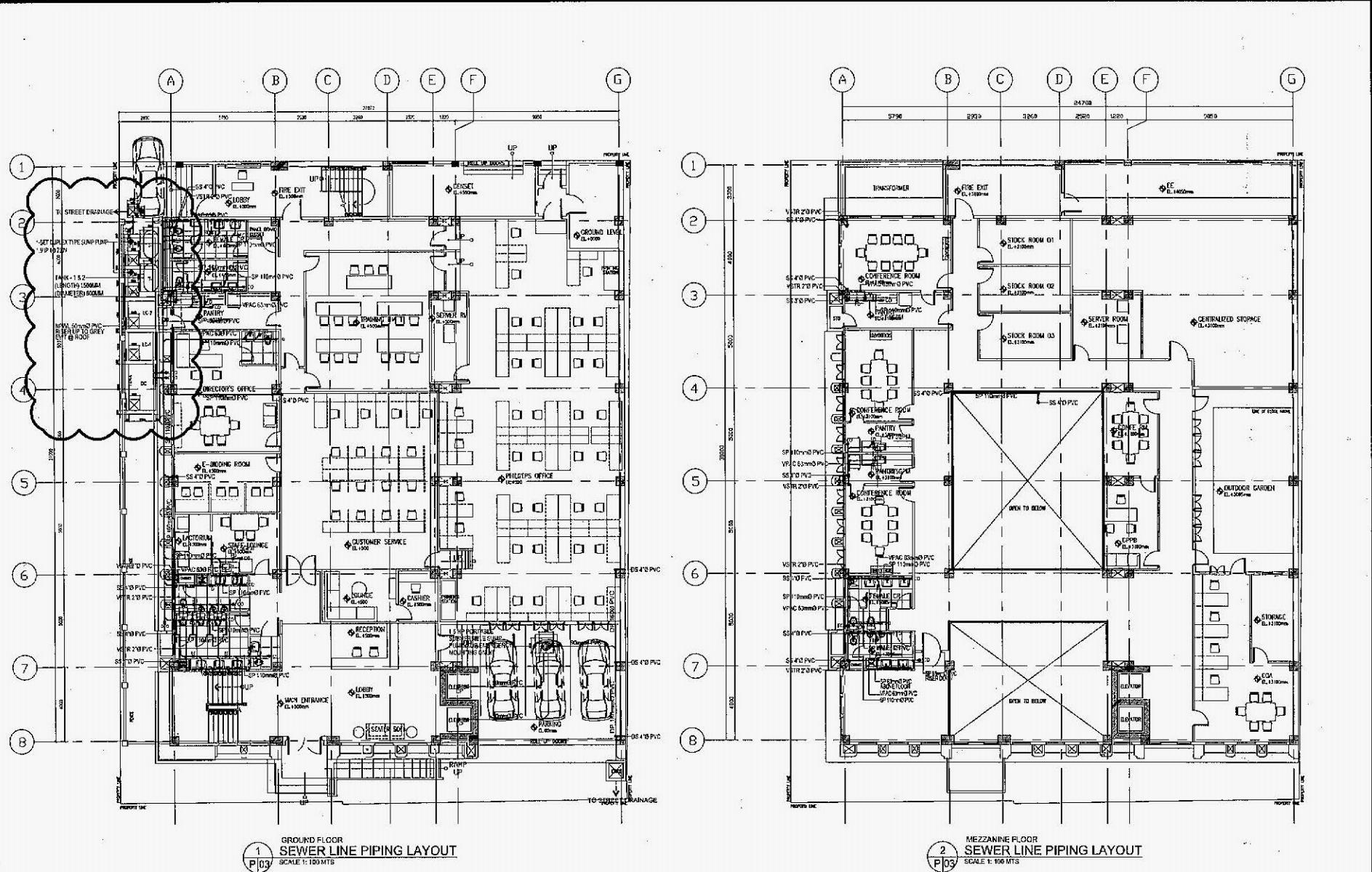


1 VICINITY MAP  
NOT TO SCALE

9 DETAIL OF ELEVATOR PIT  
NOT TO SCALE

2 DETAIL OF LADDER RUNG  
NOT TO SCALE





UNIVERSITY OF THE PHILIPPINES SYSTEM  
OVPD  
OFFICE OF THE VICE PRESIDENT FOR DEVELOPMENT  
ODP  
OFFICE OF DESIGN AND PLANNING INITIATIVES

PROJ ID: UPM-A-1515  
Activity: Sectoral  
Project Name: THREE-STORY BUILDING RENOVATION  
Architect: Architectural Services Department  
Planner: Planner Services Department  
Budget: Budget and Management Department  
Procurement: Procurement Department  
Logistics: Logistics Department  
Human Resources: Human Resources Department  
Information Technology: Information Technology Department  
Finance: Finance Department  
Auditor: Auditor Department  
Internal Audit: Internal Audit Department  
General Services: General Services Department  
Public Relations: Public Relations Department  
Office of the Vice President for Development: Office of the Vice President for Development Department  
Office of Design and Planning Initiatives: Office of Design and Planning Initiatives Department

Architects of Record

MASTER PLUMBER / FEE = 2683

SANITARY ENGINEER

PROJECT TITLE

UNIVERSITY REPRESENTATIVE

OWNER

DRAWN BY: ACT

DATE: 09/21/17

SHEET CONTENTS

CHEKED BY: RICCP

DATE: 10/02/17

SHEET NO.

THREE - STOREY BUILDING RENOVATION  
Department of Budget and Management  
Araullo Building  
SAN JOSE CITY OF MANILA

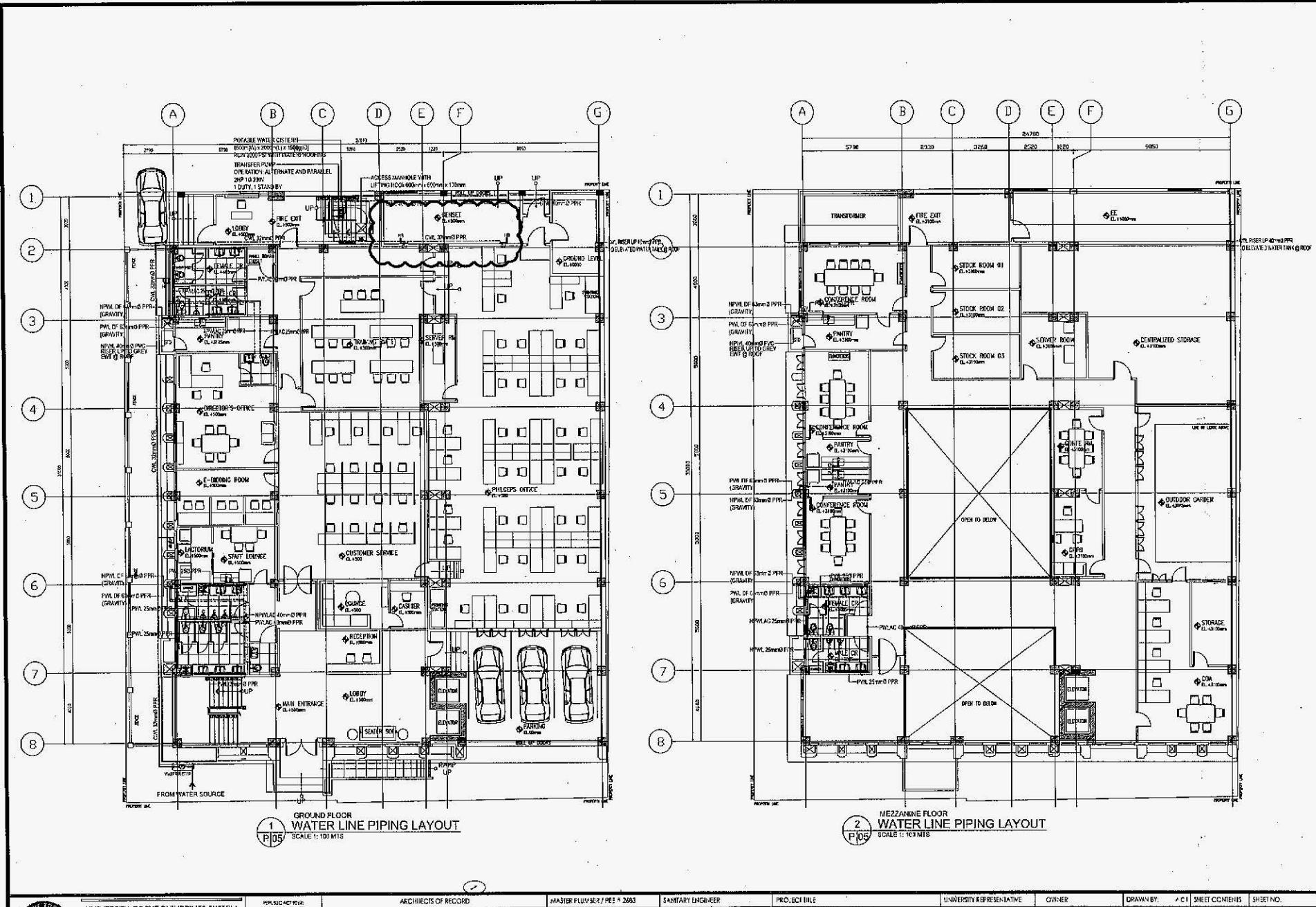
ENRICO D. TABALUANDA  
DIRECTOR

JOSHUA E. DIOKNO  
DIRECTOR

REVISIED BY: ACT

DATE: 10/16/17

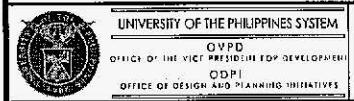
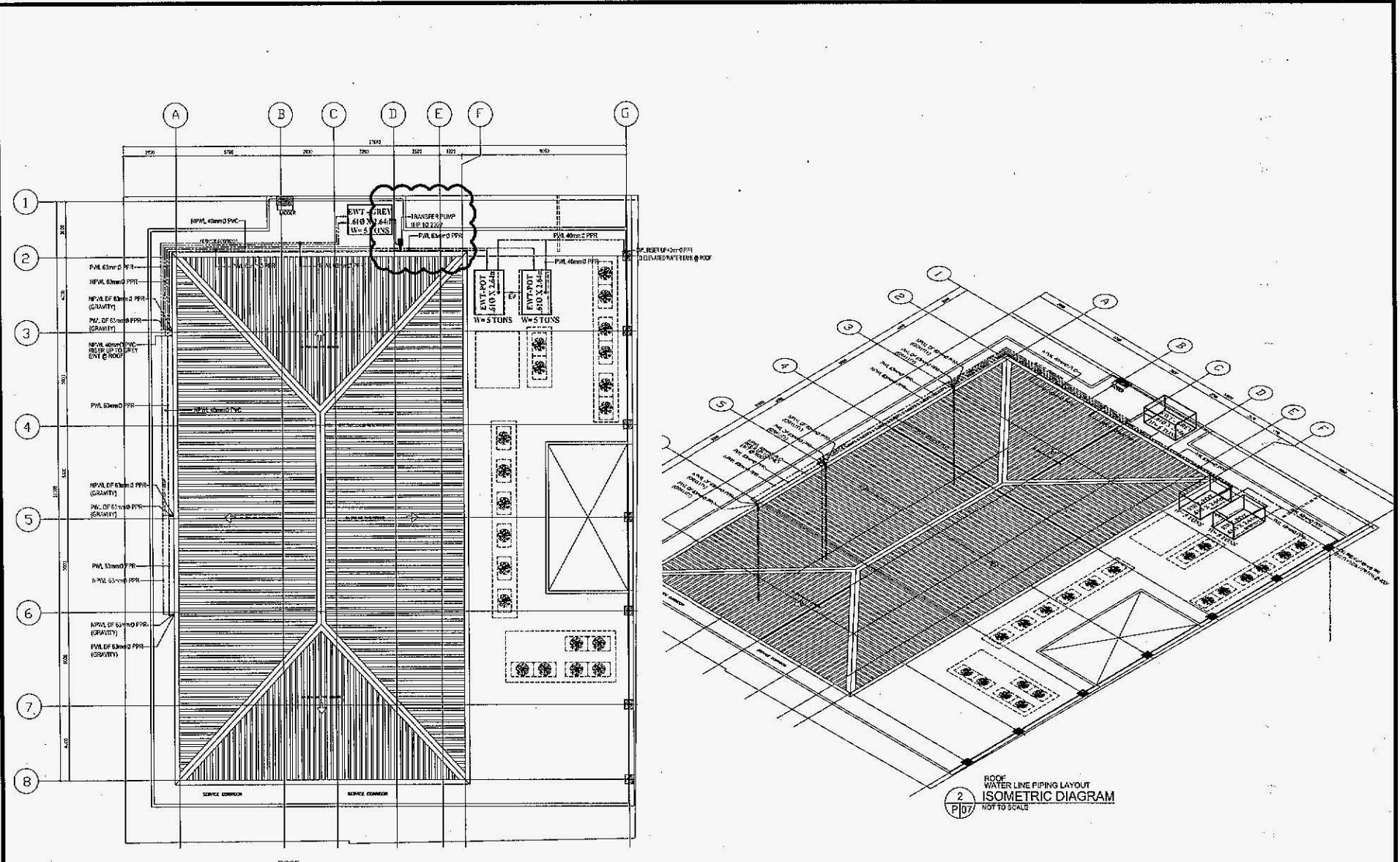
BB2  
02  
26  
P-03



UNIVERSITY OF THE PHILIPPINES SYSTEM  
OVPD  
OFFICE OF THE VICE PRESIDENT FOR DEVELOPMENT  
ODPI  
OFFICE OF DESIGN AND PLANNING INITIATIVES

PUBLIC ACT NO. 23  
Article IV, Section 23  
Enacted by the Congress of the  
Philippines on June 26, 1998  
and signed into law by the  
President on June 26, 1998.

ARCHITECT OF RECORD	MASTER PLUMBER / PEE N 2603	SANITARY ENGINEER	PROJECT TITLE	UNIVERSITY REPRESENTATIVE	OWNER	DRAWN BY: A.C.	HEET CONTENTS	HEET NO.
DOLORES CECILIA F. TAYSON JESUS APOLINARIO C. BULADONG	RODRIGO J. REHILLA CLEMENTE G. PANGILINAN		THREE - STOREY BUILDING RENOVATION Department of Budget and Management Aracache Building SAN JOSE, CITY OF MARAVAL	ENRICO B. TABABUNGA FACULTY DEPT. ELVIRA A. ZAHOPA FACULTY DEPT.	BENJAMIN E. DIOXON FACULTY AT	DRAWN: 05/25/17 CHECKED BY: RICARDO G. GARCIA DATE: 06/17/17 REVIEWED BY: GLEN G. GARCIA DATE: 06/17/17 REVISED BY: A.C. DATE: 06/17/17		BB2 03 26 P-05



REPUBLIC ACT 9163  
Article V, Section 3  
Establishes the University of the Philippines  
as a state corporation and vests in it the  
functions of the National University.

ARCHITECTS OF RECORD

DOLORES CECILIA F. TATSON

MASTER PLUMBER / PEB # 2653

JESUS APONVADO C. BULAONG

MASTER PLUMBER / PEB # 2653

PODRONO J. RENOLA

SANITARY ENGINEER

CLEMENTIE G. PANGILINAN

PROJECT FILE

THREE - STOREY BUILDING RENOVATION  
Department of Budget and Management  
Accache Building  
SAN MIGUEL CITY OF MAPE

UNIVERSITY REPRESENTATIVE

ENRICO H. LABAHIDA,  
DIRECTOR

OWNER

BENJAMIN E. DIOKNO

DRAWN BY: A.C.I.

SP-2014

STREET CONTENTS

BB2

04

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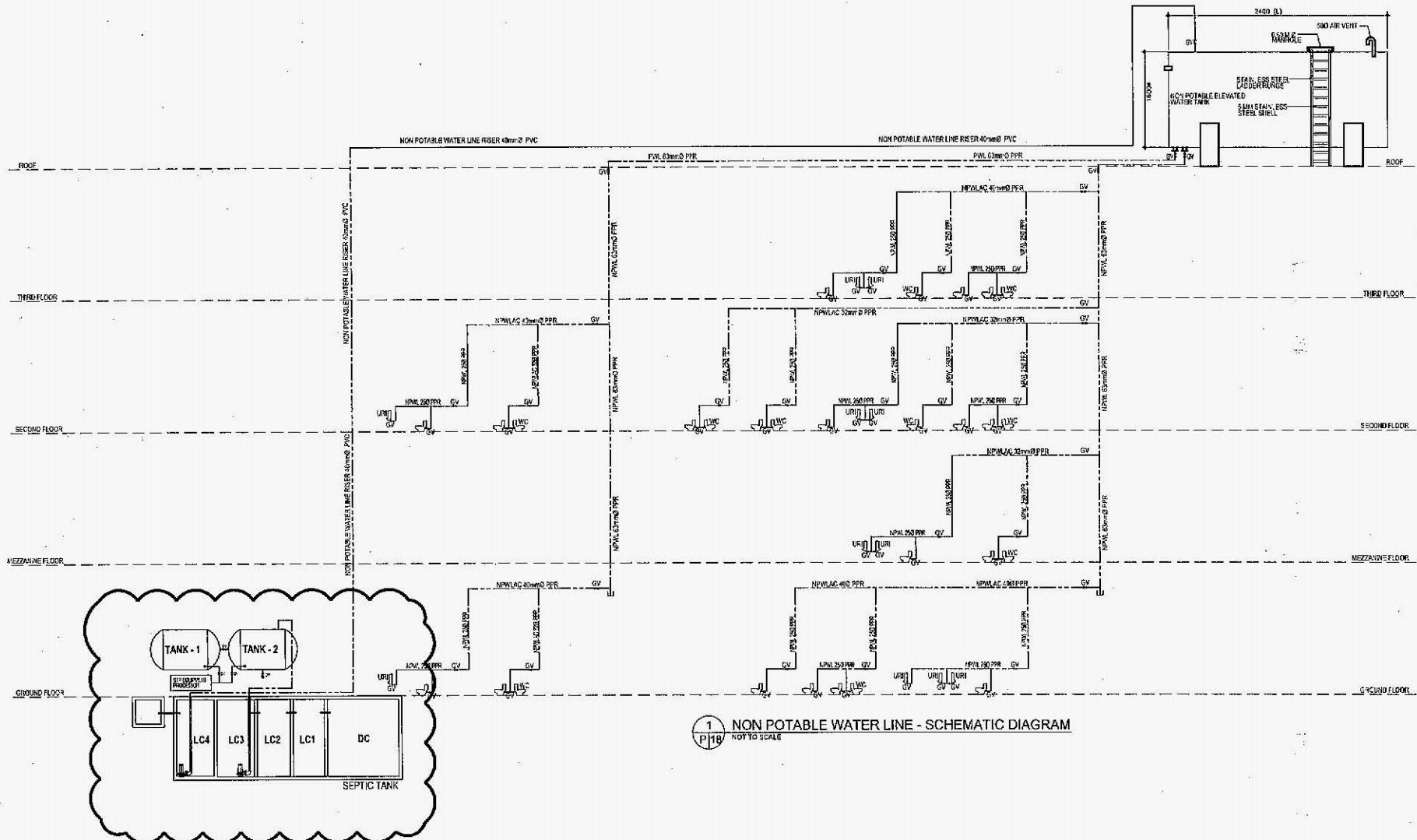
2014

P-07

04

26

2014



PROJECT ACT 1046  
Appendix Section 33  
The project is identified as the  
"Three-Storey Building Renovation  
Department of Budget and Management  
Archae Building".

Architect of Record:

MASER PLUMBER / PE # 2883

Sanitary Engineer:

Clemente G. Pangilinan

Project Title:

Three - Storey Building Renovation

Department of Budget and Management

Archae Building

SAN MIGUEL CITY OF MANILA

Owner:

Enrico B. Tabanua  
DIRECTOR

University Representative:

Benjamin E. Diocino  
DIRECTOR AVI

Drawn By:

DR. DR. A. C. I.

Sheet Contents:

NON POTABLE WATER LINE  
SCHEMATIC DIAGRAM

Sheet No.:

BB2

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REvised By:

A.C.I.

Date:

12/12/17

Comments:

NON POTABLE WATER LINE  
SCHEMATIC DIAGRAM

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**EQUIPMENT SCHEDULE**
**FAN COIL UNIT (FCU)**

ITEM NO.	QTY.	UNIT DESIGNATION	AREA SERVED	FLOOR LVL	SELECTED DESIGN			TYPE OF DRIVE	ELECTRICAL CHARACTERISTICS			REMARKS
					UNIT TYPE	COOLING CAPACITY			VOLTS	PHASE	HZ	
TR	BTU/Hr											
1	2	FGF-A1-FGF-A2	DIRECTOR'S OFFICE	GF	WALL MOUNTED	1.5	18000	600	DIRECT	230	1	60
2	1	FGF-A3	E-BIDDING ROOM	GF	WALL MOUNTED	1.5	18000	600	DIRECT	230	1	60
3	1	FGF-A4	STAFF LOUNGE	GF	WALL MOUNTED	1.5	18000	600	DIRECT	230	1	60
4	2	FGF-A5-FGF-J6	SERVER ROOM	GF	WALL MOUNTED	1.5	18000	600	DIRECT	230	1	60
5	6	FGF-B1-FDF-B6	CUSTOMER SERVICE	GF	WALL MOUNTED	2	24000	800	DIRECT	230	1	60
6	1	FGF-B7	CASHIER	GF	WALL MOUNTED	0.6	7200	240	DIRECT	230	1	60
7	2	FGF-B8-FGF-B9	PHILGEPS OFFICE	GF	WALL MOUNTED	2	24000	800	DIRECT	230	1	60
8	4	FGF-B10-FGF-B13	LOBBY	GF	WALL MOUNTED	2	24000	800	DIRECT	230	1	60
9	3	FGF-C1-FGF-C3	TRAINING RM1	GF	WALL MOUNTED	2	24000	800	DIRECT	230	1	60
10	6	FGF-C4-FGF-B9	PHILGEPS OFFICE	GF	WALL MOUNTED	2	21000	800	DIRECT	230	1	60
11	1	FM-A1	CONF. RM 1	MEZZANINE	WALL MOUNTED	2	24000	800	DIRECT	230	1	60
12	1	FM-A2	CONF. RM 2	MEZZANINE	WALL MOUNTED	1.5	18000	600	DIRECT	230	1	60
13	1	FM-A3	CONF. RM 3	MEZZANINE	WALL MOUNTED	1.5	18000	600	DIRECT	230	1	60
14	4	FM-B1-FM-B4	CENTRALIZED STORAGE	MEZZANINE	WALL MOUNTED	2	24000	800	DIRECT	230	1	60
15	2	FM-C1-FM-C2	SERVER ROOM	MEZZANINE	WALL MOUNTED	1.5	18000	600	DIRECT	230	1	60
16	1	FM-C3	CONF. RM 4	MEZZANINE	WALL MOUNTED	2	24000	800	DIRECT	230	1	60
17	1	FM-C4	GPPB	MEZZANINE	WALL MOUNTED	2	24000	800	DIRECT	230	1	60
18	2	FM-CS-FM-C6	COA	MEZZANINE	WALL MOUNTED	2	24000	800	DIRECT	230	1	60
19	2	P2F-A1-P2F-A2	DIRECTOR'S OFFICE 1	2F	WALL MOUNTED	1.5	18000	600	DIRECT	230	1	60
20	2	P2F-A3-2F-A4	DIRECTOR'S OFFICE 2	2F	WALL MOUNTED	1.5	18000	600	DIRECT	230	1	60
21	1	P2F-A5		2F	WALL MOUNTED	2	24000	800	DIRECT	230	1	60
22	1	P2F-A6	ASST. DIR 1	2F	WALL MOUNTED	1.3	15000	520	DIRECT	230	1	60
23	1	P2F-A7	ASST. DIR 2	2F	WALL MOUNTED	1.3	15000	520	DIRECT	230	1	60
24	1	P2F-A8	OFFICE 1	2F	WALL MOUNTED	2	24000	800	DIRECT	230	1	60
25	2	P2F-A9-P2F-A10	LAN	2F	WALL MOUNTED	1.5	18000	600	DIRECT	230	1	60
26	1	P2F-B1	CASHIER 1	2F	WALL MOUNTED	0.6	7200	240	DIRECT	230	1	60
27	6	P2F-B2-P2F-B7	OFFICE 1	2F	WALL MOUNTED	2	24000	800	DIRECT	230	1	60
28	1	P2F-B8	OFFICE 2	2F	WALL MOUNTED	2	24000	800	DIRECT	230	1	60
29	3	P2F-C1-P2F-C3	ELEVATOR LOBBY	2F	WALL MOUNTED	2	24000	800	DIRECT	230	1	60
30	5	P2F-C4-P2F-C8	OFFICE 2	2F	WALL MOUNTED	2	24000	800	DIRECT	230	1	60
31	1	P2F-C9	HELP DESK 1	2F	WALL MOUNTED	1.5	18000	600	DIRECT	230	1	60
32	1	P2F-C10	HELP DESK 2	2F	WALL MOUNTED	1.5	18000	600	DIRECT	230	1	60
33	5	P3F-A1-P3F-A5	MUSEUM	3F	CEILING CASSETTE	4	48000	1600	DIRECT	230	1	60
34	4	P3F-B1-P3F-B4			CEILING CASSETTE	4	48000	1600	DIRECT	230	1	60
35	2	P3F-C1-P3F-C2	LOBBY	3F	CEILING CASSETTE	4	48000	1600	DIRECT	230	1	60
36	2	P3F-D1-P3F-D2	PROJECT MGMT WAR RM1	3F	WALL MOUNTED	2	24000	800	DIRECT	230	1	60
37	2	P3F-D3-P3F-D4	PROJECT MGMT WAR RM2	3F	WALL MOUNTED	2	24000	800	DIRECT	230	1	60

 <p>UNIVERSITY OF THE PHILIPPINES SYSTEM OVPD OFFICE OF THE VICE PRESIDENT FOR DEVELOPMENT ODPI OFFICE OF DESIGN AND PLANNING INITIATIVES</p>	<p>ARCHITECTS OF RECORD</p> <p>DOLORES CECILIA F. TAYSON JESUS APCHINARIO C. BU. AONG</p>	<p>CONSULTANT / ENGINEER</p> <p>GERONIMO O. ESLAVA PROFESSIONAL ENGINEERING INC.</p>	<p>PROJECT TITLE</p> <p>THREE - STOREY BUILDING RENOVATION Department of Budget and Management Arcosche Building SAN JUAN CITY, MANILA</p>	<p>UNIVERSITY REPRESENTATIVE</p> <p>ENRICO B. TABARINDA DIRECTOR</p>	<p>OWNER</p> <p>EVARISTO A. TADMORA Vice President</p>	<p>DRAWN BY:</p> <p>DATE: 06/17</p>	<p>SHEET CONTENTS</p> <p>06/17</p>	<p>SHEET NO.</p> <p>BB2</p>
						<p>CHECKED BY: PJP / GE</p> <p>DATE: 06/17</p>	<p>REVISED BY: NICO</p> <p>DATE: 06/17</p>	<p>M-02</p>

EQUIPMENT SCHEDULE  
AIR COOLED CONDENSING UNIT (ACCU-VRF-TYPE)

UNIT DESIGNATION	ACCU COOLING CAPACITY		NO. OF MODULE AND CAPACITY	COOLING POWER CONSUMPTION (kW)	SOUND LEVEL (dB)	OPERATING WEIGHT (KG)	ELECTRICAL CHARACTERISTICS			REMARKS
	TR	BTU/HR					VOLTS	PHASE	Hz	
ACCU-GF-A	9	108,000	12hp	8.62	59	200	230	3	60	1. APPROPRIATE ACCU CLEARANCES SHALL BE BY MANUFACTURER'S INSTALLATION STANDARD.
ACCU-GF-B	24.6	295,200	14hp + 18hp	26.1	64	600	230	3	60	2. APPROPRIATE ACCU FOOTING/MOUNTING BASE SUPPORT SHALL BE BY MANUFACTURER'S INSTALLATION STANDARD.
ACCU-GF-C	18	216,000	10hp + 14hp	17.6	61	500	230	3	60	3. PROVIDE APPROPRIATE VIBRATION ISOLATOR FOR BLOWERS, ACCU'S AND MOTORS.
ACCU-M-A	6	60,000	6hp	5.18	56	200	230	3	60	4. UNIT SHALL BE SUITABLE FOR OUTDOOR INSTALLATION CW STD. ACCU'S (DAKIN BRAND OR APPROVED EQUAL).
ACCU-M-B	8	96,000	8hp	5.18	56	200	230	3	60	NOTE: GROUPINGS OF FCU TO ACCU IS BASED ON THE FLOOR LEVEL AND LETTER INDICATED. EXAMPLE: ACCU - GF - A FGF-A1 TO FGF-A6
ACCU-M-C	10	120,000	12hp	8.82	59	200	230	3	60	
ACCU-2F-A	15.6	167,200	8hp + 12hp	14.0	61	400	230	3	60	
ACCU-2F-B	20.8	247,200	12hp + 14hp	19.5	63	500	230	3	60	
ACCU-2F-C	14.6	175,200	8hp + 12hp	14.0	61	400	230	3	60	
ACCU-3F-A	20	240,000	12hp + 14hp	19.5	63	500	230	3	60	
ACCU-3F-B	16	192,000	8hp + 14hp	15.9	63	500	230	3	60	
ACCU-3F-C	8	96,000	6hp	5.18	56	200	230	3	60	
ACCU-3F-D	8	96,000	6hp	5.18	56	200	230	3	60	

VENTILATION EQUIPMENT

QUANTITY	UNIT DESIGNATION	AREA SERVED	DRIVE	TYPE	AIR FLOW RATE		STATIC PRESSURE		ELECTRICAL CHARACTERISTICS			REMARKS
					CFM	CMH	INCH	PASCAL	WATT	VOLT	PHASE	
20	EF-1 TO 20	TOILET	DIRECT	TOILET EXHAUST FAN CEILING CASSETTE	150	225	0.40	103	35	230	1	60
				WALL FAN	-	-	-	-	50	230	1	60
4	WF-1 TO 4	PANTRY	DIRECT	OSCILLATING FAN	-	-	-	-	50	230	1	60
2	OF-1A.2	PANTRY	DIRECT	AIR CURTAIN	800	1263	0.50	125	200	230	1	60
5	AC-1-6	ENTRANCE	DIRECT	WALL EXHAUST FAN	300	510	0.40	100	50	230	1	60
2	WF-1A	BALCONY CONTROL ROOM	DIRECT	WALL EXHAUST FAN	300	510	0.40	100	50	230	1	60

ENERGY RECOVERY VENTILATOR (ERV)

QUANTITY	UNIT DESIGNATION	TYPE	FLOOR LVL LOCATION	AIR FLOW RATE		EXTERNAL STATIC PRESSURE	DIMENSION HxWxD (mm)	ELECTRICAL CMH	WATT	VOLT	PHASE	Hz	REMARKS
				CFM	CMH								
2	ERV-1-ERV-2	ENERGY RECOVERY VENTILATOR	OF	598	1,003	188	387 x 1,111 x 1,214	135	230	1	60	UNIT SHALL BE ENERGY RECOVERY VENTILATOR UNIT. MECHANICAL CONTRACTOR TO INSTALL WIRE AND MAKE UNIT OPERATIONAL. (DAKIN BRAND OR APPROVED EQUAL).	
2	ERV-3-ERV-4	ENERGY RECOVERY VENTILATOR	MEZZANINE	236	390	105	308 x 879 x 890	246	230	1	60	UNIT SHALL BE ENERGY RECOVERY VENTILATOR UNIT. MECHANICAL CONTRACTOR TO INSTALL WIRE AND MAKE UNIT OPERATIONAL. (DAKIN BRAND OR APPROVED EQUAL).	
2	ERV-5-ERV-6	ENERGY RECOVERY VENTILATOR	2F	582	650	85	338 x 373 x 832	342	230	1	60	UNIT SHALL BE ENERGY RECOVERY VENTILATOR UNIT. MECHANICAL CONTRACTOR TO INSTALL WIRE AND MAKE UNIT OPERATIONAL. (DAKIN BRAND OR APPROVED EQUAL).	
3	ERV-7-ERV-9	ENERGY RECOVERY VENTILATOR	3F	471	800	133	397 x 1,111 x 832	593	230	1	60	UNIT SHALL BE ENERGY RECOVERY VENTILATOR UNIT. MECHANICAL CONTRACTOR TO INSTALL WIRE AND MAKE UNIT OPERATIONAL. (DAKIN BRAND OR APPROVED EQUAL).	



REPUBLIC ACT 9166  
Section 13  
Requiring the Government to adopt measures to encourage the use of energy efficient products and services and to prohibit the importation of products and services which are not energy efficient and do not conform to international standards.

DOLE 1  
OVD  
OFFICE OF THE VICE PRESIDENT FOR DEVELOPMENT

ODPL  
OFFICE OF DESIGN AND PLANNING INITIATIVES

ARCHITECTS OF RECORD  
DO. ORES CECILIA F. TAYSON  
JESUS ARQUINARIO C. JULAOONG

GERONIMO C. ESLAVA  
PROFESSIONAL TECHNICAL INC.

PROJECT TITLE  
THREE - STOREY BUILDING RENOVATION  
Department of Budget and Management Arcosche Building  
SAN JOSE CITY, NCR

UNIVERSITY REPRESENTATIVE  
ENRICO R. TABAFUNDA  
DIRECTOR

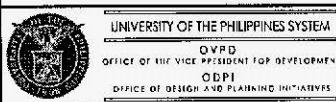
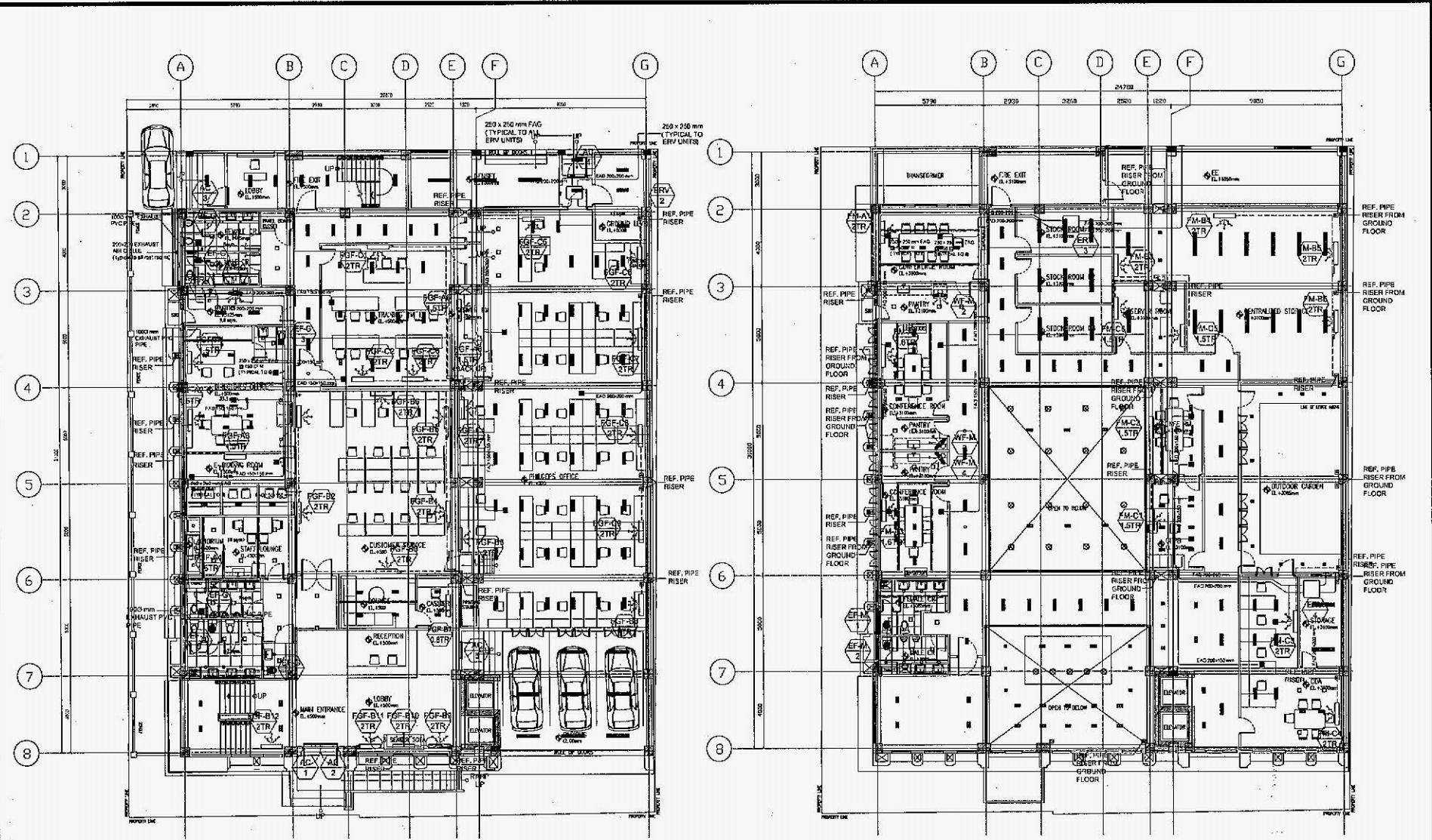
OWNER  
BENJAMIN E. DICRINO  
DIRECTOR

DRAWN BY: III  
DRAWN: 06/25/17  
CHECKED BY: PIP / GE  
DATE: 06/25/17

SHEET CONTENTS  
BB2  
26  
M-03

REVISED BY: NGGO  
DATE: 12/18/17

SHEET NO.: 07  
M-03



REPUBLIC ACT 9264:  
An Act to Promote the Development of Local Government Units by Strengthening their Autonomy and Capacity to Plan, Implement and Evaluate their Programs and Services, and for Other Purposes.

This Act shall be known as the "Local Government Code of 1991".

Approved: [Signature]  
Date: [Signature]

ARCHITECT OF RECORD  
DOLORES CECILIA F. TAYSON

CONSULTANT / ENGINEER  
JESUS APOLINARIO C. BULANG  
GERONIMO C. ESLAVA  
PROTOS IN PLANNING INC.

PROJECT TITLE  
THREE - STOREY BUILDING RENOVATION  
Department of Budget and Management Arcoche Building  
SAN JUAN CITY, METRO MANILA

UNIVERSITY REPRESENTATIVE  
ENRICO B. TABAFUNDA  
DPCD-OVT

OWNER  
BERNARVIE E. DIBORNO  
DVS-DP&M

DRAWN BY: #1  
DATE: 06/05/17  
CHECKED BY: PV/GE  
06/05/17  
REVISED BY: HELD  
DATE: 17/06/17

SHEET CONCERNED  
GFA MEZZANINE  
A/C AND VENTILATION  
SYSTEM LAYOUT  
08

SHEET NO.  
BB2  
26

M-04

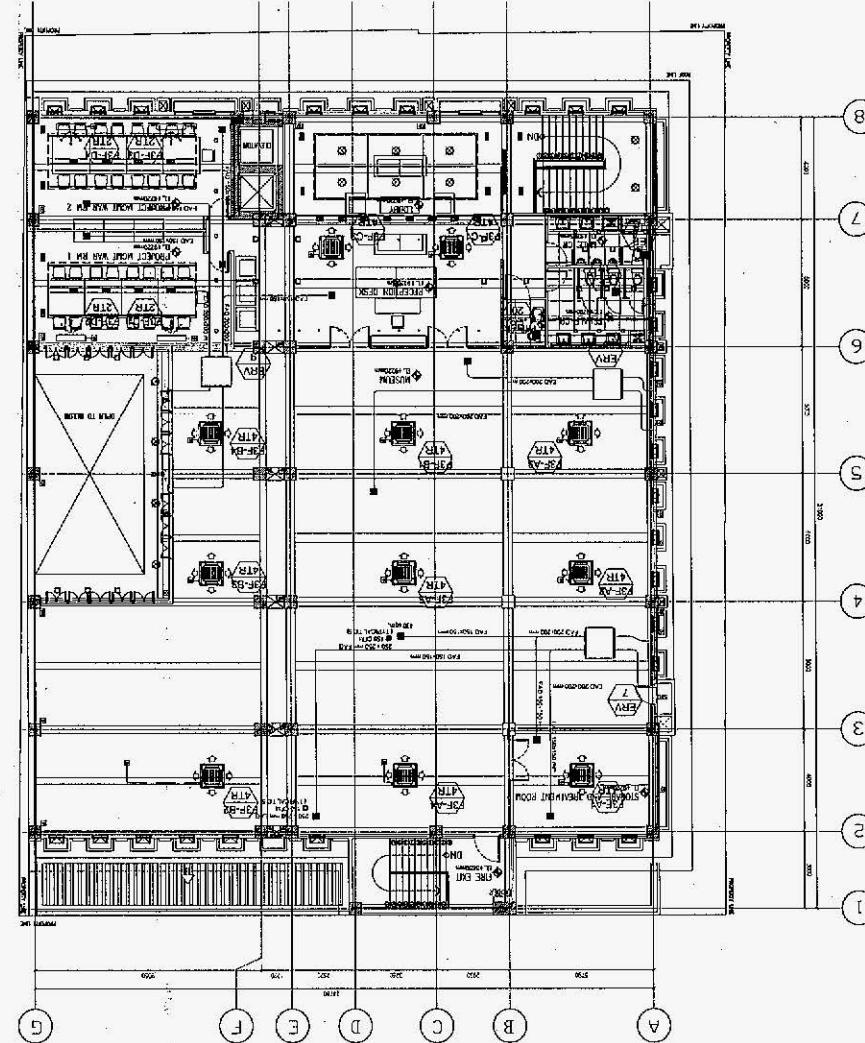


UNIVERSITY OF THE PHILIPPINES SYSTEM

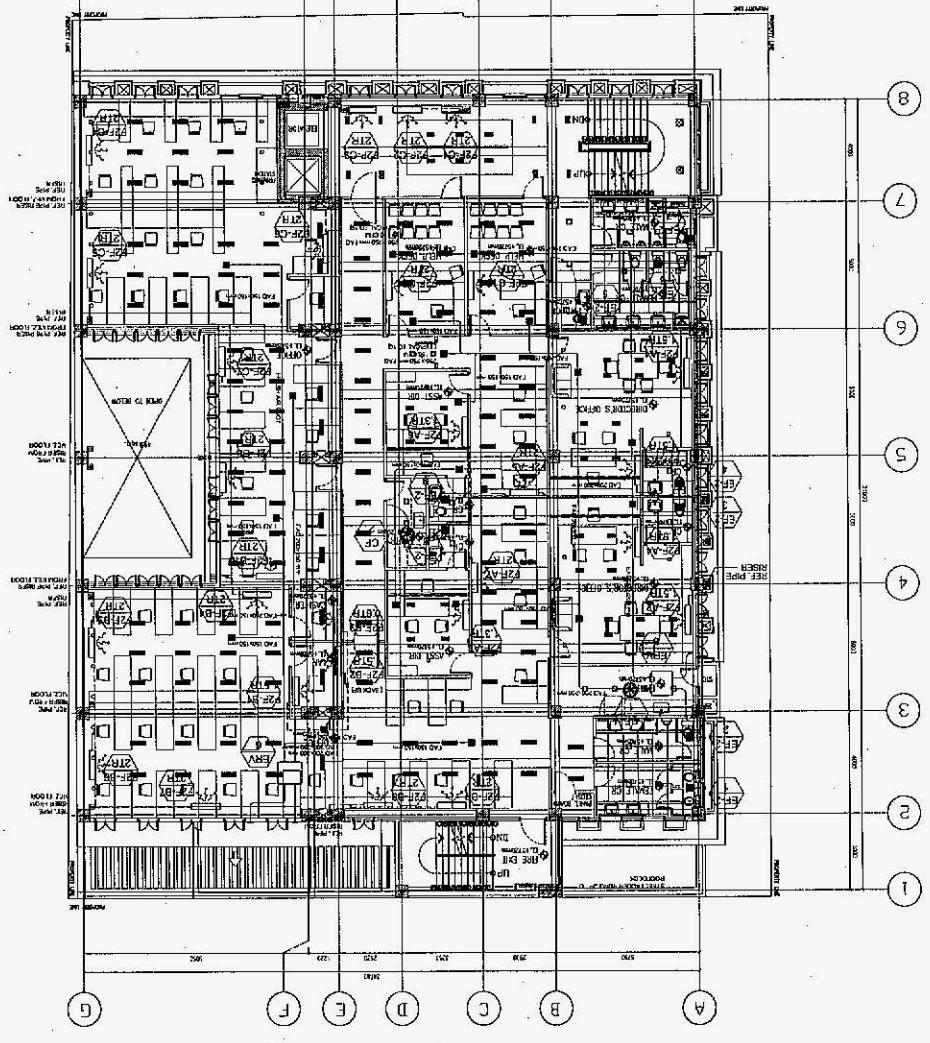
OFFICE OF THE VICE PRESIDENT FOR DEVELOPMENT

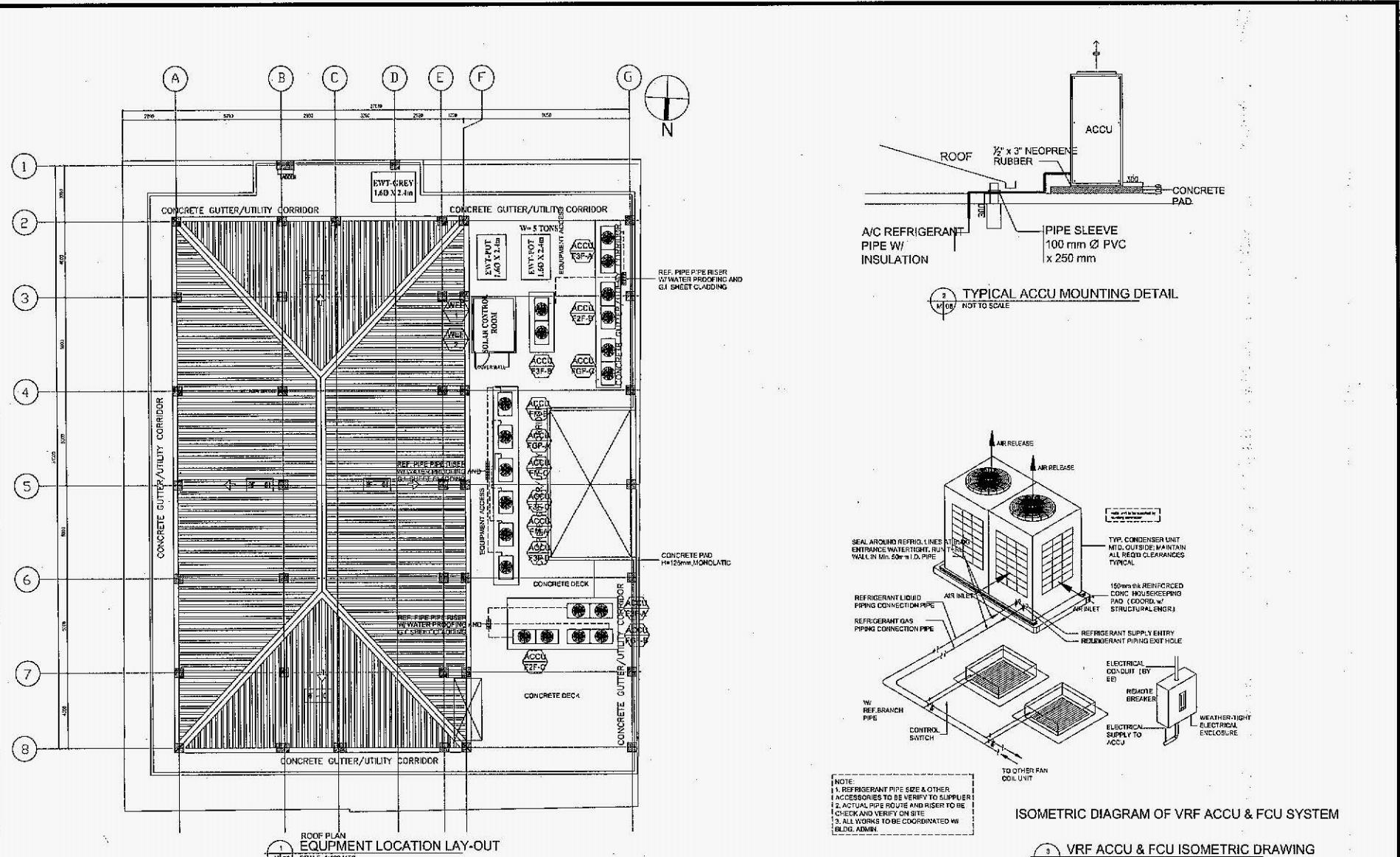
DEPARTMENT OF DESIGN AND PLANNING UNIT

1. AIR AND VENTILATION SYSTEM LAY-OUT



2. AIR AND VENTILATION SYSTEM LAY-OUT





### GENERAL NOTES :

- ALL INSTALLATION SHALL FOLLOW THE PERTINENT NFPA-13 STANDARDS.
- FOR AREAS WITH AN EXISTING FIRE PROTECTION SYSTEM LAYOUT, DESIGN MODIFICATIONS SHALL BE SUBJECT TO ADMIN. APPROVAL.
- IN AREAS WHERE NON-COMBUSTIBLE (ACOUSTIC TYPE OR THE LIKE) DROP CEILING INSTALLED, INSTALL PENDANT TYPE SPRINKLER HEADS WILL BE SAME TYPE OR EQUAL AS WHAT HAVE BEEN.
- PIPE SUPPORTS SHOULD BE PROVIDED IN AREA WITH CEILING AND UPRIGHT SPRINKLER HEADS ON AREA WITHOUT CEILING.
- ALL WORKS SHALL CONFORM TO BUILDING CONSTRUCTION GUIDELINES.
- ALL INSTALLATION SHALL BE DONE BY BUILDING ACCREDITED CONTRACTOR TO ENSURE THE WARRANTY OF THE WORK.
- DISTANCE OF SPRINKLER HEAD (PENDANT OR UPRIGHT) TO A WALL OR HIGH PARTITION MUST NOT EXCEED 600MM.
- MAXIMUM DISTANCE OF ONE SPRINKLER UNIT FROM THE SLAB SHOULD BE 300MM.
- MAXIMUM COVERAGE OF ONE SPRINKLER HEAD (PENDANT OR UPRIGHT TYPE) IS EQUIVALENT TO A ROOM DIMENSION OF 4 X 4 M<sup>2</sup>. AREAL (REGULAR CEILING OR CEILING WITH OBSTRUCTIONS (NOT FLAT)) SHALL BE SUBJECT TO THE FIRE PROTECTION CONTRACTOR'S SPECIFICATION OF 300MM.
- ALL ADDITIONAL/RELOCATED FRANCHISEES AND TAPS SHALL BE B PIPE SCHED 40 & PROVIDE WITH A CORROSION PROOF HANGER.
- ALL PIPELINE SHALL BE B1 PIPE SCHEDULE 40 AND TO BE SUBJECTED TO HYDROSTATIC TEST MOTIONLESS THAN 200 PSI FOR TWO HOURS. NO VISIBLE LEAKAGE FOR INSIDE SPRINKLER PIPING SHALL BE ALLOWED. CONTRACTOR TO SUBMIT TEST CERTIFICATE DULY SIGNED BY ENGR.
- FIRE SLEEVE SHALL BE PROVIDED ON EVERY PIPES PASS THROUGH WALLS AND BEAM, AND FIRE SEALANT SHALL BE THE SAME FIRE RATING OF WALLS/PARTITION.
- FIRE PROTECTION CONTRACTOR SHALL VISIT SITE FOR ACTUAL CONDITION OF PIPING AND REVIEW AIR CONDITIONING MECHANICAL (VENTILATION) SYSTEM TO BE INSTALLED. THEY (CONTRACTOR) WILL DO THE RE-PATHING/RELAYOUT EXISTING SPRINKLER PIPE IN ORDER TO PROVIDE AMple SPACE FOR NEW AND TO BE RELOCATED EXHAUST AND FRESH AIR DUCTS.
- ALL WORKS FOR SPRINKLER INSTALLATION & SUPPORTS FOR UNDERGROUND WATER TANK TO BE COORDINATED WITH STRUCTURAL ENGR.

### LEGENDS:

S-0-3 RISER NIPPLE (RN)	WET STAND PIPE (WSP)
S-0-4 FLEXIBLE PIPE	DRY STAND PIPE (DSP)
S-1-5 FEED MAIN (FM)	BUND FLANGE
S-1-5 CROSSWALL (CW)	PIPE HANGER
S-1-5 BRANCHUNE (BL)	FLOOR CONTROL VALVE (FCV)
S-1-5 FIRE DEPT/CNCL (FDC)	NEW PENDANT SPRINKLER HEAD (NP)
S-1-5 BUTTERFLY VALVE (BV)	NEW SIDEWALL SPRINKLER HEAD (SW)
S-1-5 GATE VALVE (GV)	JOCKEY PUMP
S-1-5 ELBOW TURNED DOWN	FIRE HOSE CABINET
S-1-5 ELBOW TURNED UP	FIRE EXTINGUISHER
S-1-5 CHECK VALVE	REDUCER
S-1-5 FLUSHING CONNECTION	PRESSURE RELIEF VALVE / CLOSED WASTE CONNE
S-1-5 UNION PATENTE	AUTO AIR RELIEF VALVE
S-1-5 PIPE SLEEVE	PRESSURE GAUGE
S-1-5 FLANGE CONNECTION	FIRE HOSE VALVE
S-1-5 AUTOMATIC AIR RELEASE VALVE	FLOW SWITCH
S-1-5 BLACK IRON PIPE	BLIP BLACK IRON PIPE
S-1-5 INSPECTOR TEST CONNECTION (ITC)	NON-RETURN VALVE

### MATERIAL SPECIFICATIONS :

#### FIRE LINES

FIRE LINES SHALL BE BLACK IRON (B1) PIPES SCHEDULE 40 "STANDARD" CONFORMING TO ASTM A-120-1989 "P&O" OR "SUPER" OR "SUPREME" BRAND OR APPROVED EQUIVALENT.

#### SPRINKLER HEADS

ALL SPRINKLER HEADS, PENDANT (CO-CEALED, UPRIGHT & SIDEWALL) SHALL BE RATED 74°C (165°F) AND FOR KITCHEN AREA SHALL BE 100°C (212°F).

### PIPE SIZING TABLE

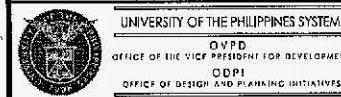
LIGHT HAZARD		ORDINARY HAZARD	
PIPE NOMINAL SIZE (mm)	MAX. NUMBER OF SPRINKLERS TO BE FED BY PIPE OF SIZE LISTED	PIPE NOMINAL SIZE (mm)	MAX. NUMBER OF SPRINKLERS TO BE FED BY PIPE OF SIZE LISTED
25	2	25	2
32	3	32	3
40	5	40	5
50	10	50	10
65	19	65	20
75	60	75	40
100	-	100	100
150	-	125	150
		150	175
		200	-

### TABLE OF CONTENTS :

SHEET NO:	SHEET CONTENTS
FP-01	GENERAL NOTES & SPECIFICATION LEGEND VICINITY MAP TABLE OF CONTENTS FIRE PUMPS AND JOCKEY PUMP SCHEDULE
FP-02	GROUND FLOOR & MEZZANINE SPRINKLER PIPING SYSTEM LAY-OUT
FP-03	SECOND FLOOR & THIRD FLOOR SPRINKLER PIPING SYSTEM LAY-OUT
FP-04	ROOF MANIFOLD LAY-OUT FIRE PROTECTION SCHEMATIC DIAGRAM
FP-05	FIRE PUMP STORAGE SYSTEM LAY-OUT
FP-06	MISCELLANEOUS DETAILS

### PUMPS SCHEDULE

ITEM	QTY.	MOTOR CAPACITY		NATED CAPACITY		SUCTION	DISCHARGE	ELECTRICAL CHARACTERISTICS			TOTAL DYNAMIC HEAD (ft)	COMPUTED PRESSURE (psi)	BASE UNIT DIMENSION (mm)	TYPE	HAZARD CLASSIFICATION	WEIGHT (kg)	REMARKS
		H.P.	KW	GPM	LPS			PIPE DIA (in)	PIPE DIA (mm)	VOLTS	PHASE	CYCLE					
FIRE PUMP	1	50	37.3	300	310	150	150	230	3	60	71703	100	537X500X269 (Ready to install)	VERTICAL TURBINE ELECTRICAL DRIVEN	ORDINARY	100	VERTICAL TURBINE FIRE PUMP, BRAND NEW AURORA, FAIRBANKS MORSE, PATTERSON OR APPROVED EQUAL BY FIRE DEPARTMENT & BUILDING OFFICIAL, COMPLETE WITH STANDARD ACCESSORIES.
JOCKEY PUMP	1	50	37.3	50	31	63	50	230	3	60	77023	110	955X1000X600 (Ready to install)	VERTICAL TURBINE ELECTRICAL DRIVEN	ORDINARY	97	BRAND NEW, GRANFOS OR APPROVED EQUAL BY FIRE DEPARTMENT & BUILDING OFFICIAL, COMPLETE WITH STANDING ACCESSORIES.



REPUBLIC ACT 7946:  
Article 11, Section 33

The undersigned, being the head of the department or office concerned, hereby certifies that the documents contained in this set of plans are true copies of the original documents filed in my office.

DOCTOR CECILIA F. PATSON

JESUS APOLINARIO C. BULANG

GERONIMO C. ESALVA

PROFESSIONAL ENGINEER

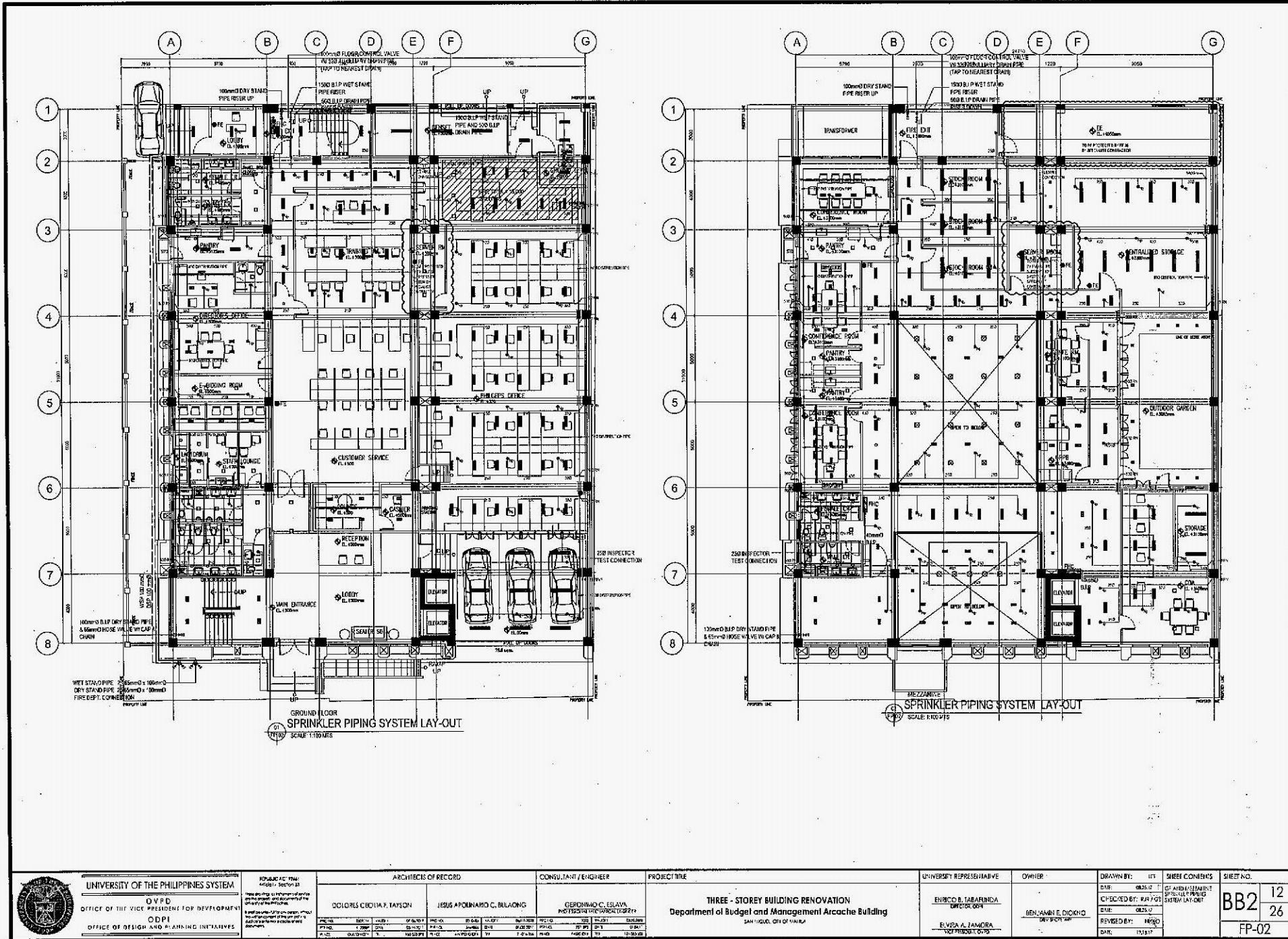
THREE - STOREY BUILDING RENOVATION  
Department of Budget and Management Aracche Building  
SAN JUAN, CITY OF MANILA

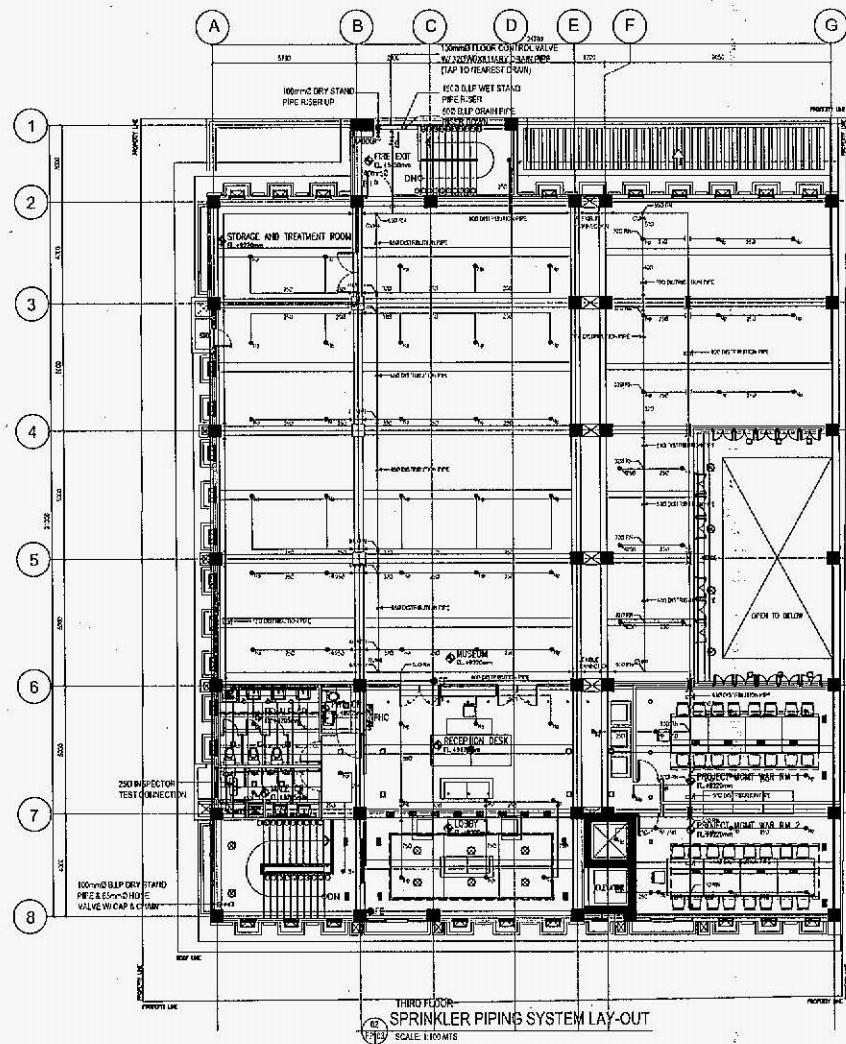
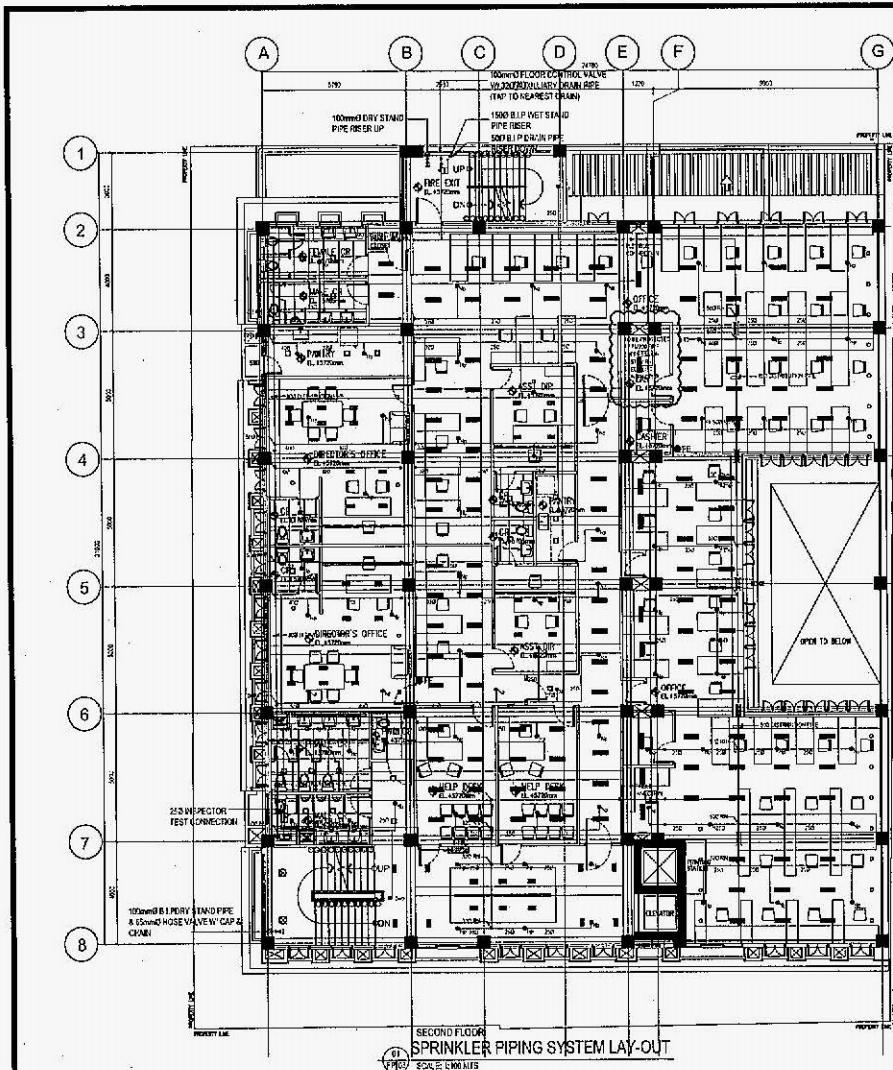
ENRIKO S. TABUNDA  
PROJECT OFFICER

BENJAVIE E. DIKNO  
PROJECT OFFICER

ELVIRA A. ZAMORA  
PROJECT OFFICER

DRAWN BY: M.F.  
SHEET NO.: 0001  
SHEET CONTENTS: GENERAL NOTES & SPECIFICATION  
DATE: 08/20/11  
CHECKED BY: P./C.  
DATE: 08/20/11  
APPROVED BY: D.B.M.  
DATE: 08/20/11  
REVISED BY: 12/00/11  
DATE: 12/00/11  
BB2 11  
FP-01 26





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**OVPD**  
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**ODPI**  
**OFFICE OF DESIGN AND PLANNING INITIATIVES**

**REPUBLIC ACT 9294**  
**Article IV Section 32**

ARCHIT

ARCHITECTS OF RECORD

**CONSULTANT / ENGR**

MEER PROJECT

CONTINUE

**THREE - STOREY BUILDING RENOVATION  
Department of Budget and Management Arcache Building  
SAN MIGUEL CITY OF SAMAL**

UNIVERSITY REPRESE

NAME OWN

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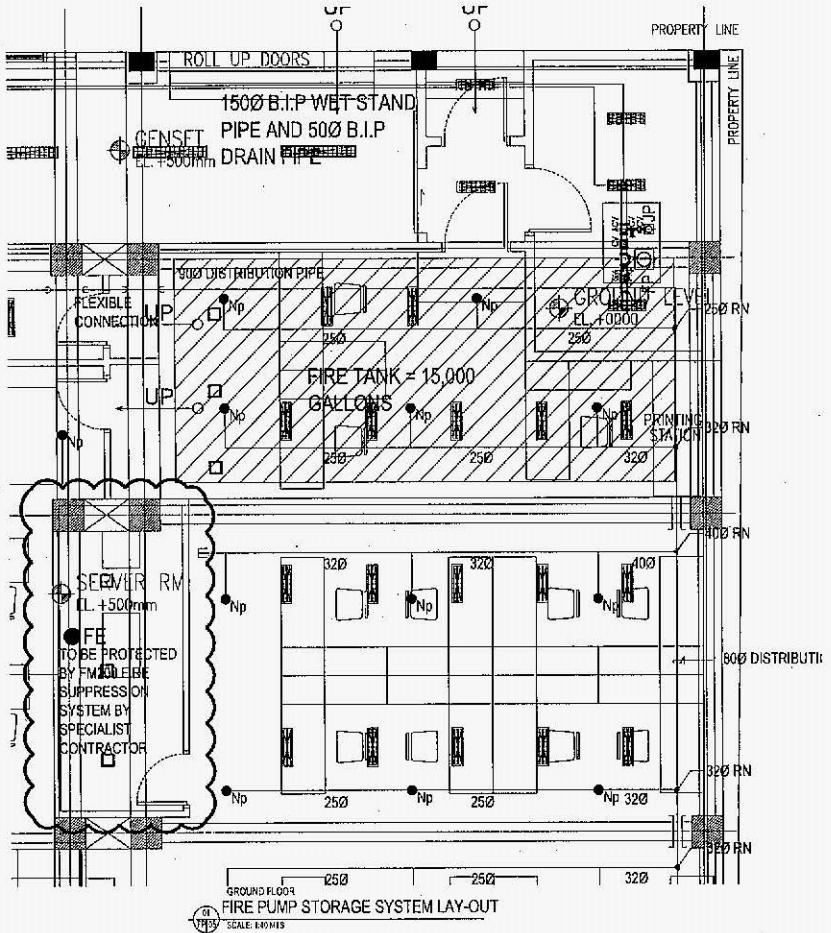
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SHEET CONTENT

SHEET NO. \_\_\_\_\_

BB2

FP-03



JOCKEY PUMP VERTICAL TYPE  
ELECTRIC MOTOR, 130 PSI 7.5HP 400V 3  
PHASE 60Hz (@ 50gpm)

1500 B.I.P SUPPLY PIPE

ALARM MOTOR

2 - 50mmØ x 100mmØ VENT PIPE W/  
MOSQUITO SCREEN (TYP. TO 2)

15,000 GAL.  
FIRE WATER  
TANK

FIRE PUMP VERTICAL TURBINE TYPE  
ELECTRIC MOTOR, 120 PSI 7.5HP 400V 3  
PHASE 60Hz (@ 750gpm)

80mmØ RETURN PIPE  
TO NEAREST DRAIN

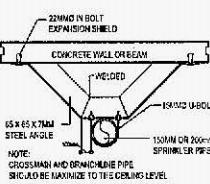
FIRE PUMP & JOCKEY  
PUMP CONTROL PANEL

800x800 MM SERVICE MANHOLE  
W/ STAINLESS STEEL COVER  
50mmØ WATER  
SUPPLY W/ FLOAT VALVE

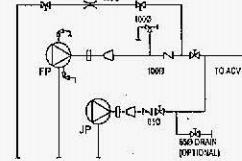
STAINLESS STEEL LADDER RUNG  
16mmØ @ 400mm SPACING  
ELECTRODE SENSOR

RECESSED AREA  
1300mm X 1300mm X 100mm (D)  
PLASTERED MORTAR  
WITH 200mm X 200mm  
GLAZED TILES

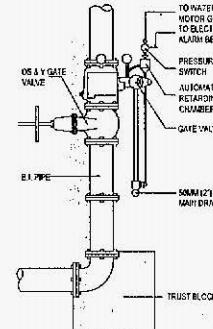
CROSS SECTION DETAIL  
FIRE PUMP , FIRE TANK PIPING SECTION  
NOT TO SCALE



PIPE RISER BRACKET DETAIL  
NOT TO SCALE



FIRE/JOCKEY PUMP SCHEMATIC DIAGRAM  
NOT TO SCALE



ALARM CHECK VALVE ASSEMBLY  
NOT TO SCALE



UNIVERSITY OF THE PHILIPPINES SYSTEM  
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ODPI  
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RPD-UC ACT 946  
Project Section 32  
Engineering and Construction Department  
University of the Philippines System  
Date Issued: 03/06/2014  
Version: 0.1  
Page No.: 14/15

ARCHITECT OF RECORD  
DOLORES CECILIA F. TAYSON

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PROJECT TITLE  
GRIGORIO C. DELAVALA  
PHOTOGRAPHIC STUDIO INC.

THREE - STOREY BUILDING RENOVATION  
Department of Budget and Management Arcachon Building  
SAN ANDRES CITY OF NAVotas

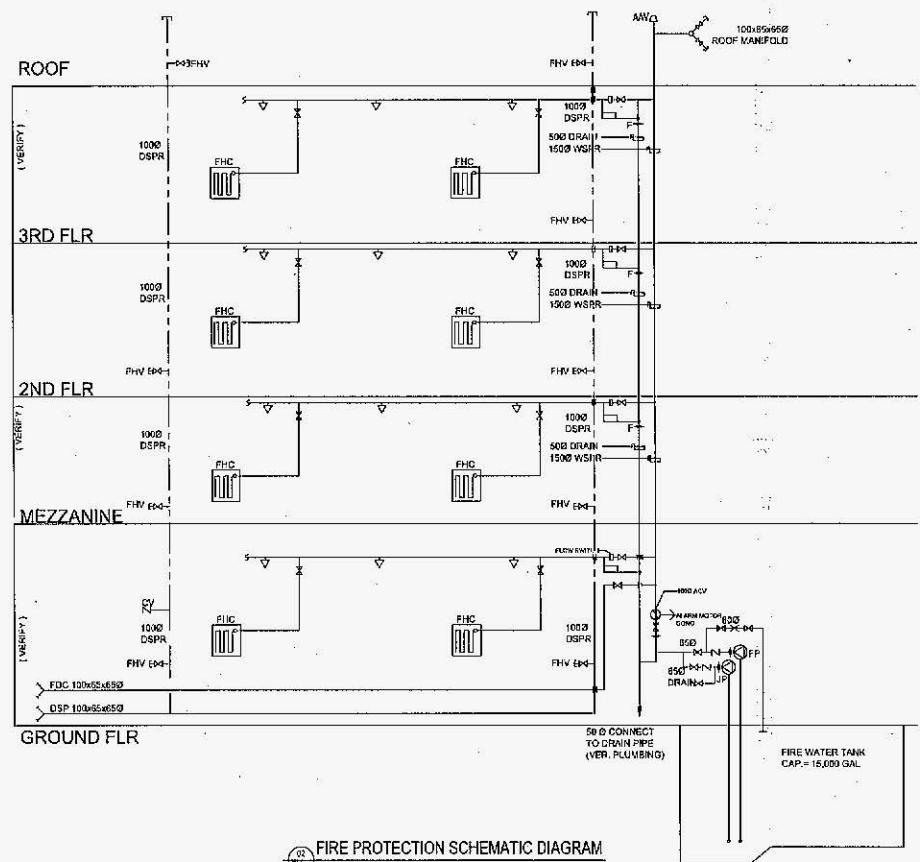
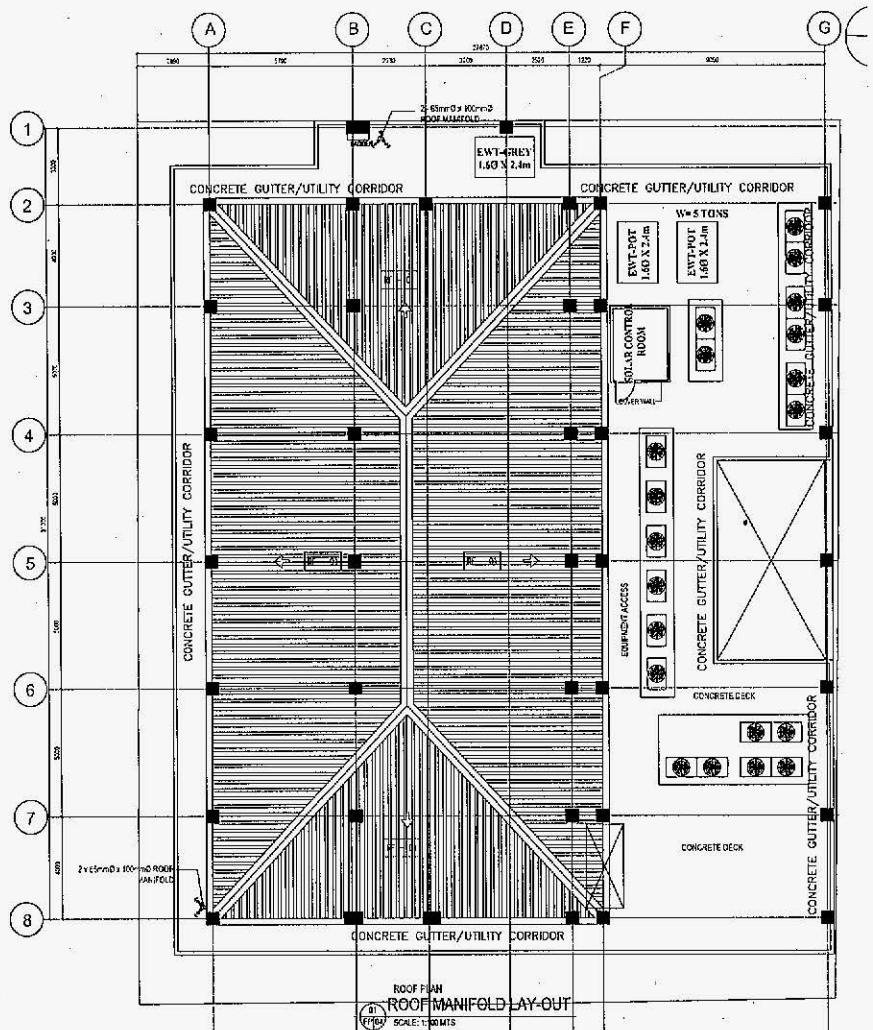
UNIVERSITY REPRESENTATIVE  
ERICODE E. TABARINDA  
DIRECTOR

OWNER  
BERJAMILE DIOKNO  
DIRECTOR

DRAWN BY: LF  
DATE: 08.05.17  
CHECKED BY: RJD & GE  
DRAWN BY: RJD & GE  
REVIEWED BY: RJD & GE  
APPROVED BY: RJD & GE  
DRAFT:

SHEET NO.: BB2  
14A  
DATE: 08.05.17  
CROSS SECTION DETAIL  
FIRE PUMP AND  
JOCKEY PUMP DEAN  
DRAWN BY: RJD & GE  
DRAFT:

BB2  
26  
FP-05



UNIVERSITY OF THE PHILIPPINES SYSTEM  
OVPD  
OFFICE OF THE VICE PRESIDENT FOR DEVELOPMENT  
ODPI  
OFFICE OF DESIGN AND PLANNING INITIATIVES

PROJECT ACT 9546  
Arch 14 Section 34  
The undersigned hereby certifies that the drawing has been prepared in accordance with the provisions of the Act.

ARCHITECTS OF RECORD  
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CONSULTANT / ENGINEER  
JESUS APOLINARIO C. BEALONG

PROJECT TITLE  
GERONIMO C. ISLAVA  
PROFESSIONAL CERTIFICATION

THREE - STOREY BUILDING RENOVATION  
Department of Budget and Management Arcache Building  
SAN JUAN, CITY OF MANILA

UNIVERSITY REPRESENTATIVE  
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DIRECTOR

OWNER  
BELAINE D. DIOGO  
DIRECTOR

DRAWN BY: LF SHEET CONTENTS: SHEET NO.  
DATE: 08/21/17 ROOF MANIFOLD BB2 14  
CHECKED BY: PNL/GE REVISED ON: 08/21/17  
DATE: 08/21/17  
REVISED BY: NYKO DATE: 08/21/17  
DATE: 08/21/17  
FP-04

### GENERAL NOTES:

PROVISION OF THE LATEST APPROVED EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND REQUIREMENTS OF THE LOCAL POWER, TELEPHONE COMPANY AND BUILDING ADMINISTRATION REQUIREMENTS.

- CONTRACTOR SHALL SECURE ALL WORKING PERMIT AND ALL FEES REQUIRED FOR THE WORKS AND FURNISH THE OWNER THE FINA CERTIFICATE OF ELECTRICAL INSPECTION.
- CONTRACTOR TO CONNECT EARTH GROUND TEST, WIRE INSULATION AND LOAD TEST SHALL BE CONDUCTED UPON COMPLETION OF WORKS.
- IN CASE OF ANY DISCREPANCY BETWEEN PLANS AND SITE CONDITION, SPECIFICATION AND REVISIONS/CHANGES, THE CONTRACTOR SHOULD IMMEDIATELY VERIFY AND CONSULT TO:
- ALL LOCATION AND MOUNTING HEIGHT ARE SUBJECT TO APPROVAL OF ELECTRICAL.
- CONTRACTOR SHALL BE RESPONSIBLE IN THE PREPARATION OF ELECTRICAL AS-BUILT PLANS DULY SIGNED AND SEALED BY PROFESSIONAL ELECTRICAL ENGINEER AND ELECTRICIAN CAN DO THIS.
- FINAL LIGHTING FIXTURES FINISHED AND WORKS DECODED BE APPROVED BY OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE IN THE PREPARATION OF AS-BUILT OR CONSTRUCTION DRAWING FOR HAVING THE CORRECT DIMENSIONS. DRAWING CAN BE DECODED BY CONTRACTOR OR AUTHORIZED ENGINEER. THIS INCLUDES DEVICES AND FIXTURES ETC.
- CONTRACTORS TO VISIT SITE CONDITION AND INCLUDE ALL COST NECESSARY TO COMPLETE THE SYSTEM AT NO COST TO OWNER, INCLUDING COST OF COMM SERVICE AND EXPENSES FOR THE RESTORATION ANY DAMAGE AFFECTED CIVIL, ARCHITECT, FINISHES OR RELOCATION OF.
- CONTRACTORS TO LOCATE ALL SPLICING BOXES TO ACCESSIBLE PLACE OR WITH ACCESS PANELS.
- NOMINATED CONTRACTOR TO VERIFY ALL EQUIPMENT TO BE INSTALLED OR PLACE WITHIN THE STORE, AND MAKE A ADJUSTMENT WITH OWNERS/ARCHITECT CONSENT.
- THIS DRAWINGS ARE DRAFTMANATIC LAYER ONLY, ANY MATERIALS AND FITTING NOT SHOWN ON THIS PLANS BUT NEEDED TO COMPLETE THE SYSTEM AND OPERATION SHALL BE INCLUDED WITH THE CONTRACTOR SCOPE OF WORKS.

### SPECIFICATIONS:

- ALL WORKS SHOULD BE DONE UNDER DIRECT SUPERVISION OF LICENSED PROFESSIONAL OR REGISTERED ELECTRICAL ENGINEER.
- POWER SOURCE TO THE BUILDING SHALL BE 20KV 30 GLI + GRO 69HZ.
- ALL MATERIALS TO BE USED SHALL BE NEW AND APPROVED TYPE FOR LOCATION.
- WIRING AND FAULT ENERGY CIRCUITS SHALL NOT BE COUPLED IN ONE PACEWAY.
- ALL WIRES SHOULD HAVE A MAXIMUM LOAD OF 80% OF WIRE CAPACITY.
- RECEPTACLES FOR GENERAL USE SHALL BE DUPLEX 20A 250V AC GRAY TYPE.
- LIGHT SWITCHES MINIMUM RATING SHALL BE 20A 250VAC.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND HAVE A T.P.S. MARKS.
- UNLESS OTHERWISE INDICATED, THE MOUNTING HEIGHTS FROM FINISHED FLOOR LEVEL FOR VARIOUS ITEMS OF ELECTRICAL WIRING ACCESSORIES / EQUIPMENT SHALL BE AS FOLLOWS.
- LIGHTING SWITCHES 200mm TO CENTER LINE
- RECEPTACLES OUTLETS 300mm TO CENTER LINE
- PANELBOARDS 350mm TO CENTER LINE
- WALL/CEILING LIGHTS 2100mm TO CENTER LINE
- COLOR FOR ALL SWITCHES, RECEPTACLE, SHALL BE AS PER ARCHITECT'S INTERIOR DESIGNER'S SELECTION.
- ALL ELECTRICAL EQUIPMENT & ACCESSORIES THAT ARE EXPOSED OR LESS THAN 2.0M AWAY FROM WATER SOURCES SHALL BE OF WATER ROOF TYPE.
- CONDUTIVE PIPE IMBEDDED WITHIN CONCRETE WALL SHALL HAVE A MINIMUM PLASTERED COVER OF 20MM THICK.
- ALL LIGHTING FIXTURES SHALL HAVE INDEPENDENT HANGER SUPPORTS.
- ALL CONDUIT PIPE SHALL HAVE INDEPENDENT HANGER SUPPORTS.
- ALL BOXES SHALL BE OCCUPIED ONLY OF 50% OF VOLUME.
- WIRE VOLTAGE DROP SHALL BE LIMITED TO 3% FROM SOURCE TO PANELBOARD, OR ACCEPTABLE TO OWNER'S EQUIPMENT.
- CIRCUIT BREAKER SERVING MOTORS AND LIGHTING LOAD SHALL BE INDUSTRIAL AND COMMERCIAL BOLT-ON TYPE RESPECTIVELY, WITH MINIMUM OF 10KAIC. 16. ALL WIRES AND CABLES.
- ALL CONDUIT AND FITTINGS SHALL BE PVC FOR LIGHT AND POWER TELEPHONE AND DATA SYSTEM.
- ALL POWER OUTLETS LOCATED AT HIGH AREAS SHALL BE 20A, 250V 2P, SPARE AND EQUIPPED WITH GFCI (GROUND FAULT CIRCUIT INTERRUPTER).

#### ADDITIONAL NOTES:

- USE OF MC TUBING SHALL BE LIMITED TO SIX INCHES (Ft)
- MAXIMUM LENGTH
- USE OF STEEL METALIC CONDUIT (FMC) SHALL BE LIMITED TO ONE METER (1M) MAX.
- PROVIDE PROPER CONDUIT SUPPORT. GI WIRES AS SUPPORT IS NOT ALLOWED.
- PROVIDE DOUBLE COAT OF PUST-PROTECTIVE PAINT (RED-OXIDE PRIMER) ON HANGERS AND SUPPORTS WITH A DISTANCE OF 150mm
- WIRE COLOR CODING SHALL BE AS FOLLOWS

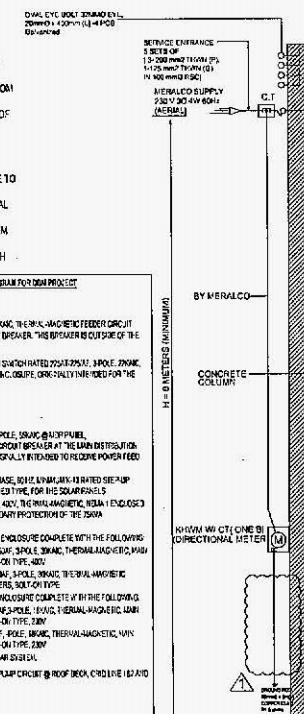
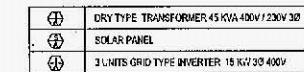
- L1 - RED
- L2 - YELLOW
- L3 - BLUE
- GROUND - GREEN

- POST MERALCO EXPENSES
- DEPOSIT (REFUNDABLE)
- NEW MERALCO POLE

### VICINITY MAP

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ODPI  
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LEGEND		DESCRIPTION		LEGEND		DESCRIPTION		LEGEND		DESCRIPTION	
①	DUPLEX CONVENIENCE OUTLET 15A, 300V GRD, HORN TYPE	□	PULL BOX SIZE AS REQUIRED	○	1 X 3 WATTS MINIATURE WHITE LIGHT	□	LED SINGLE POLE TOGGLE SWITCH, 15A, 300V	○	1 X 3 WATTS MINIATURE WHITE LIGHT	□	LED THREE-GANG (1X5 WATTS IN DAYLIGHT)
②	CONVENIENCE OUTLET (UNDER COUNTER)	○	SINGLE POLE TOGGLE SWITCH, 15A, 300V	○	LED THREE-GANG (1X5 WATTS IN DAYLIGHT)	□	CONVENIENCE OUTLET (WEATHER PROOF) 15A, 250V GROUNDING TYPE	○	LED THREE-GANG (1X5 WATTS IN DAYLIGHT)	□	CONVENIENCE OUTLET (COUNTER TOP)
③	CONVENIENCE OUTLET (COUNTER TOP)	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	CONVENIENCE OUTLET (HARD DRYER)	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	CONVENIENCE OUTLET (REFRIGERATOR)
④	CONVENIENCE OUTLET (REFRIGERATOR)	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	○	JUNCTION BOX	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	JUNCTION BOX
⑤	JUNCTION BOX	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	○	UPS	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	UNINTERRUPTIBLE POWER SUPPLY
⑥	UNINTERRUPTIBLE POWER SUPPLY	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	○	FJU	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	FLOOR JUNCTION BOX
⑦	FJU	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	○	EMERGENCY LIGHT	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	EMERGENCY LIGHT
⑧	EMERGENCY LIGHT	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	○	HEIGHT OF 0.3M	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	HEIGHT OF 0.3M
⑨	HEIGHT OF 0.3M	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	○	AUTOMATIC TRANSFER SWITCH	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	AUTOMATIC TRANSFER SWITCH
⑩	AUTOMATIC TRANSFER SWITCH	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	○	MANUAL TRANSFER SWITCH	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	MANUAL TRANSFER SWITCH
⑪	MANUAL TRANSFER SWITCH	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	○	CIRCUIT BREAKER	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	CIRCUIT BREAKER
⑫	CIRCUIT BREAKER	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	○	ELECTRIC MOTOR	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	ELECTRIC MOTOR
⑬	ELECTRIC MOTOR	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	○	GND RESISTOR	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	GND RESISTOR
⑭	GND RESISTOR	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	○	STANDBY GENERATOR SET	○	1 X 11 WATTS LEDS IN 800MM X 150MM RECESSED TYPE	□	STANDBY GENERATOR SET

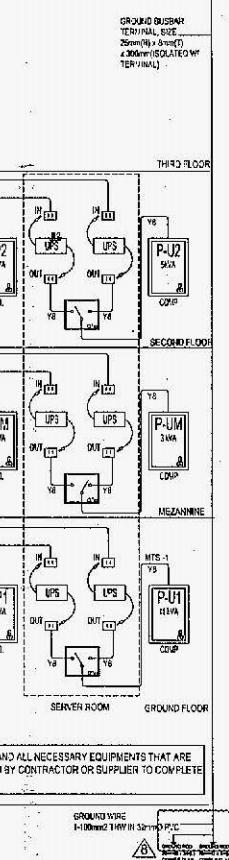
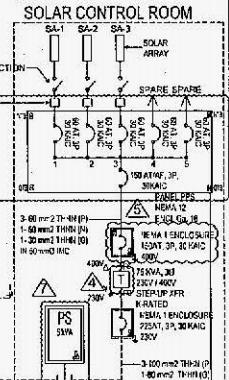


REPUBLIC ACT 9166	ARTICLE 204	ARTICLE 205	ARTICLE 206	ARTICLE 207
DOLORES CELIA F. TAYSON	JESUS APOLINARIO C. BULAGONG	RODOLFO J. REBOLLA	PHOTOCOPY AND STAMP	GENERAL
1. POST MERALCO EXPENSES	2. DEPOSIT (REFUNDABLE)	3. NEW MERALCO POLE	4. ADDITIONAL POWER TRANSFER FLAP CIRCUIT @ ROOF DECK, CIRCUID 162A TO DE	5. ADDITIONAL WATER TRANSFER FLAP CIRCUIT @ ROOF DECK, CIRCUID 162A TO DE
5. ADDITIONAL WATER TRANSFER FLAP CIRCUIT @ ROOF DECK, CIRCUID 162A TO DE	6. ELEVATOR CIRCUIT	7. ELEVATOR CIRCUIT	8. ELEVATOR CIRCUIT	9. ELEVATOR CIRCUIT
10. ELEVATOR CIRCUIT	11. ELEVATOR CIRCUIT	12. ELEVATOR CIRCUIT	13. ELEVATOR CIRCUIT	14. ELEVATOR CIRCUIT

THREE - STOREY BUILDING RENOVATION  
Department of Budget and Management Arcarce Building  
SAN JUAN CITY, MANILA

ENRICO B. TABARUNDA  
DIRECTOR, DBM  
ELVIRA A. ZAMORA  
Vice President, DBM

BENJAMIN E. DIOGO  
DEPUTY DIRECTOR  
REVIVED BY: D.O. 1526  
CHECKED BY: P.R. 1526  
D.M. 1526  
REVIVED BY: D.O. 1526  
SHEET CONTINUES  
SHEET NO. BB2 15  
E-01



POWER ONE LINE DIAGRAM  
E-01  
NOT TO SCALE

GROUND WIRE: 100mm² THHN 300mm² P/C  
TERMINAL SIZE: 25mm² (max 30mm²)  
200mm² (max 300mm²)  
TERMINAL SIZE: 100mm² (max 150mm²)  
TERMINAL SIZE: 100mm² (max 150mm²)  
TERMINAL SIZE: 100mm² (max 150mm²)  
TERMINAL SIZE: 100mm² (max 150mm²)

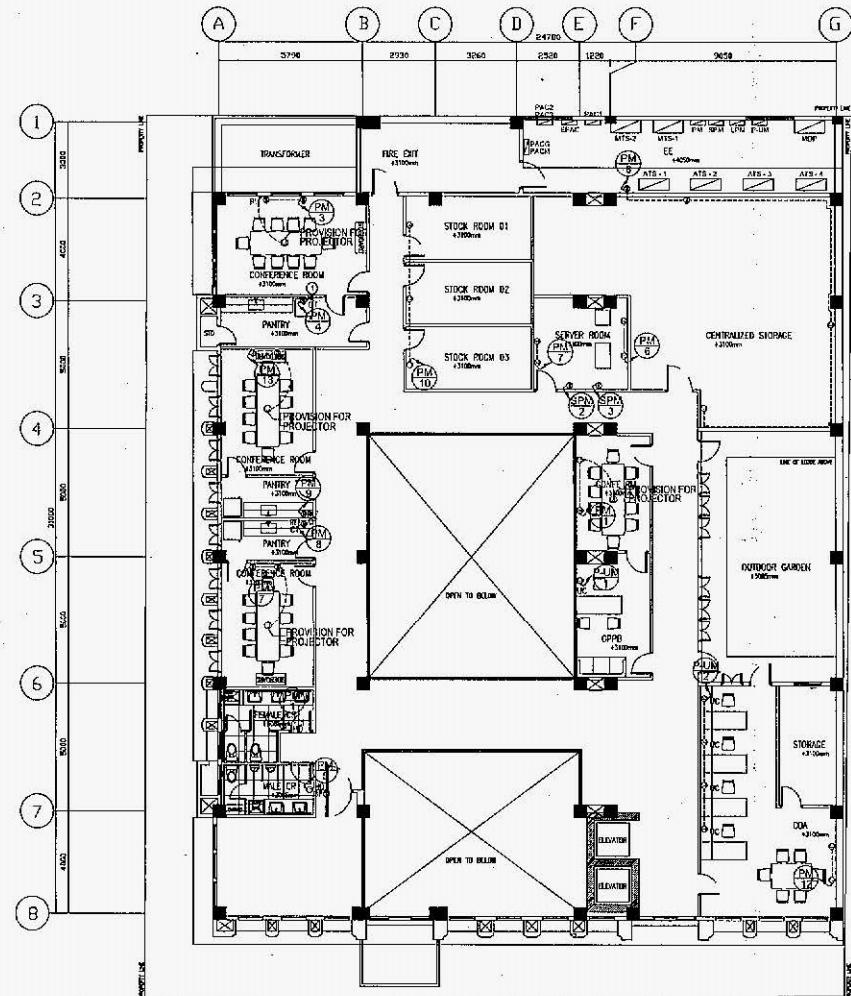
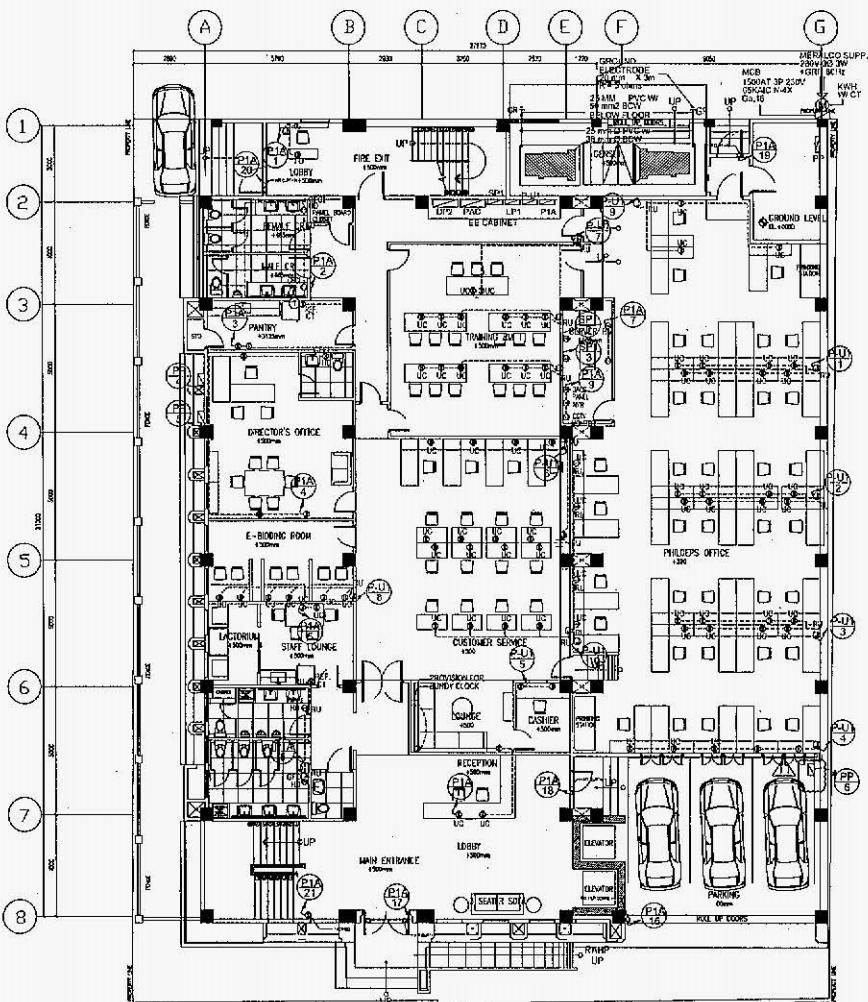
BB2 15  
E-01  
BB2 26  
E-01











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Version 001 Rev 001  
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CONSULTANT/ENGINEER  
RODRIGO J. REHOLA  
INSTITUTE OF TECHNOLOGY

PROJECT TITLE

THREE - STOREY BUILDING RENOVATION  
Department of Budget and Management Arcache Building  
SAN ANDREW CITY OF MARACAIBO

UNIVERSITY REPRESENTATIVE  
ENRICO B. LIAEFUNDA  
OFFICE OF THE  
ELVIRA A. ZAMORA  
VICE PRESIDENT FOR

OWNER

DRAWN BY:

DEO

SHEET CONTENTS

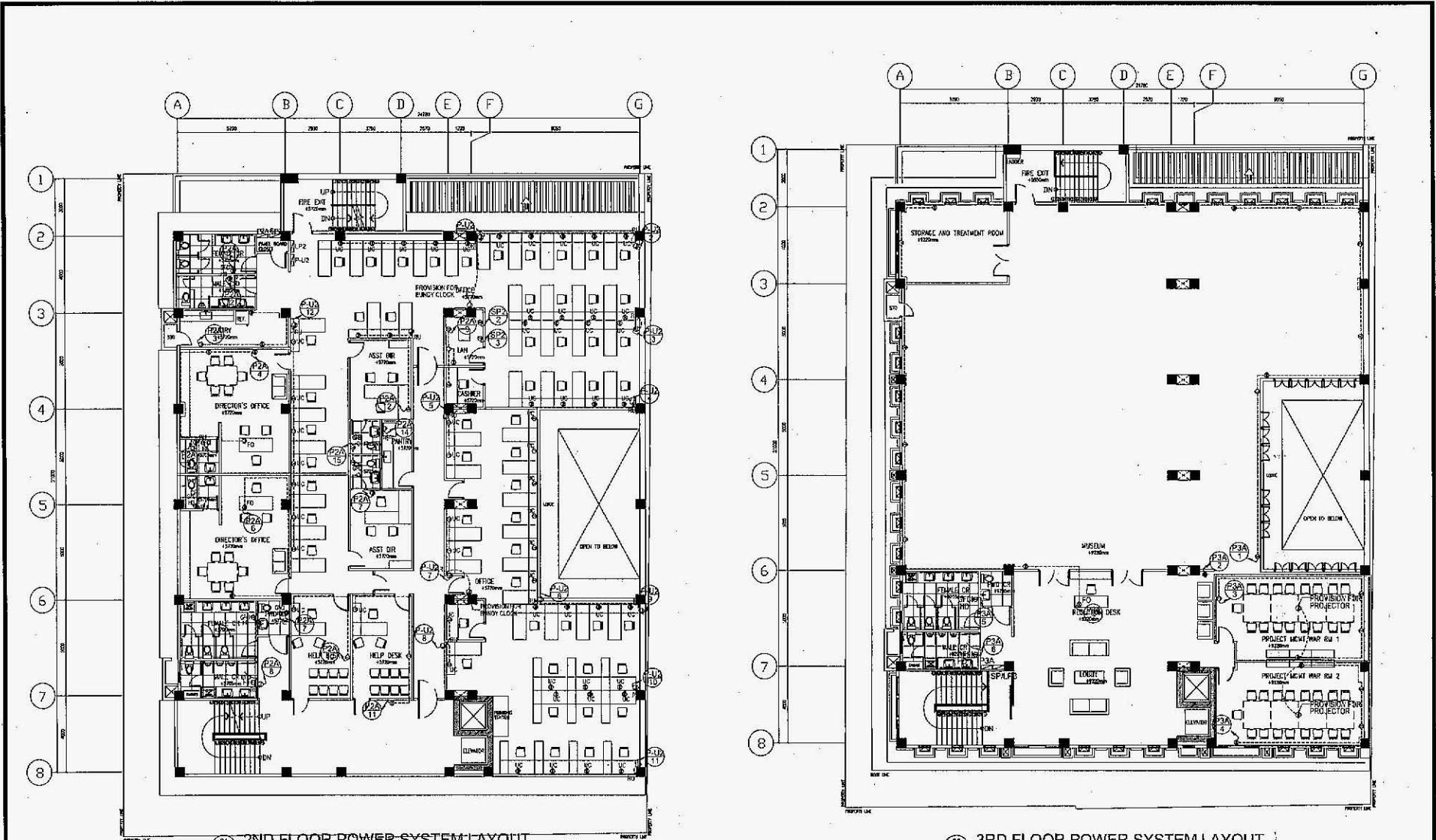
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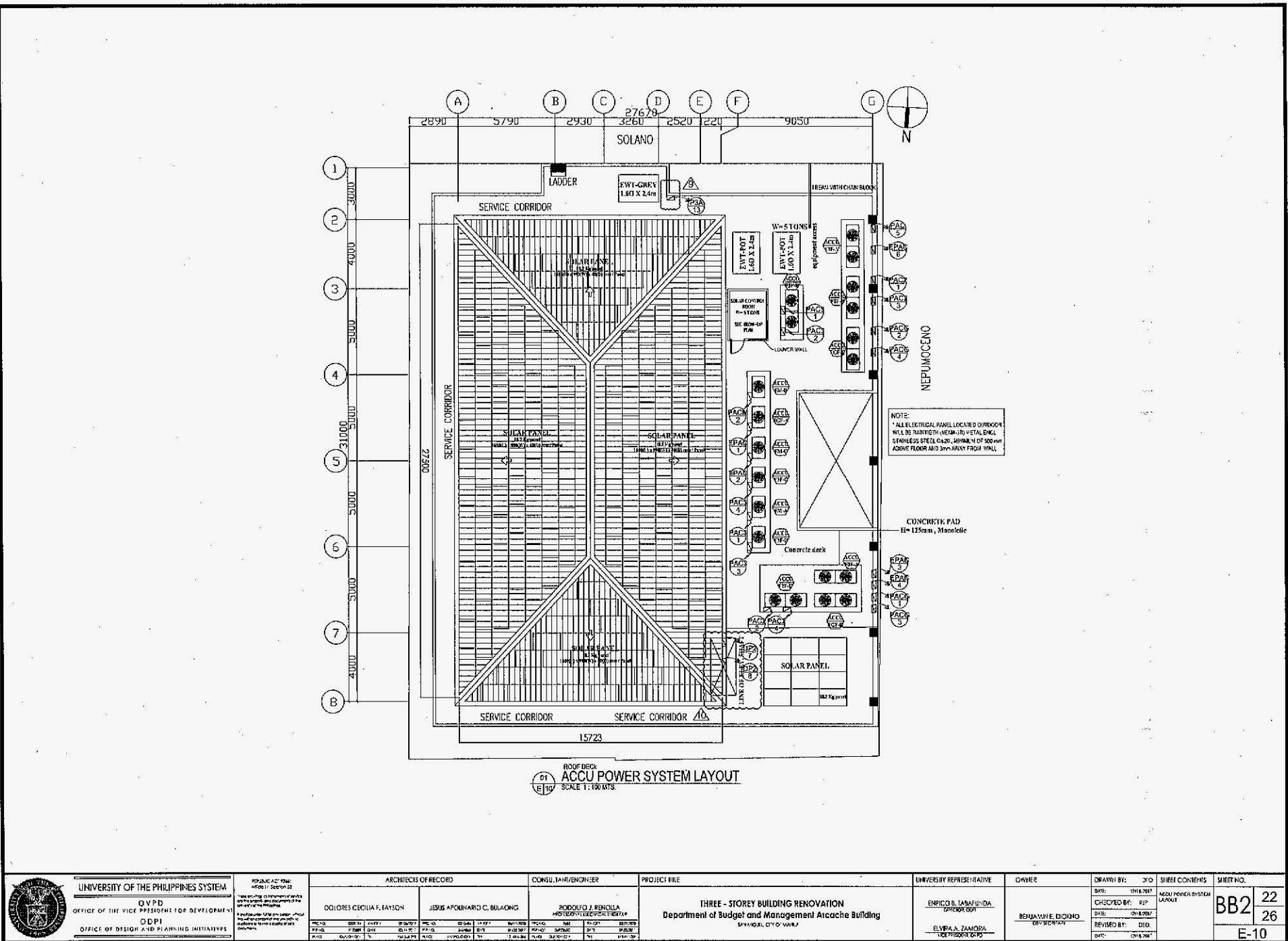
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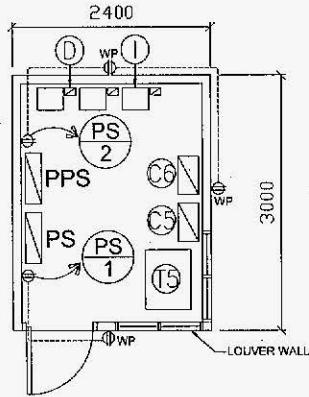
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B2  
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E-06  
26  
E-06



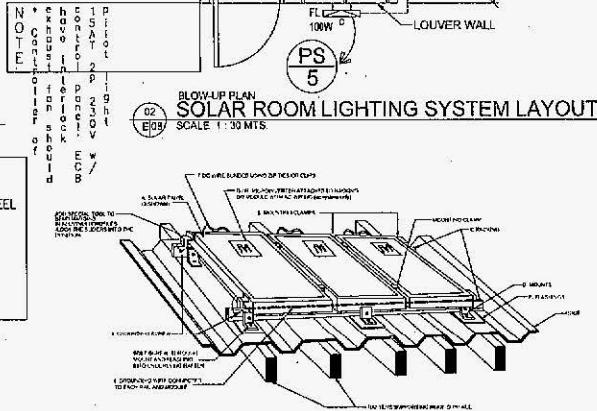
UNIVERSITY OF THE PHILIPPINES SYSTEM OVPD OFFICE OF THE VICE PRESIDENT FOR DEVELOPMENT ODPI OFFICE OF DESIGN AND PLANNING INITIATIVES	PROJECT ACT. PERIOD: AUGUST 2017 - SEPTEMBER 2018	ARCHITECTS OF RECORD DOLORES CECILIA F. TAYSON JESUS APONIARDO C. BULALONG	CONSULTANT/ENGINEER RODRIGO J. BENOMA POSTSTRUCTURE INC./GMP	PROJECT TITLE THREE - STOREY BUILDING RENOVATION Department of Budget and Management Arcache Building DAMARQUE CITY OF MARIBUZA	UNIVERSITY REPRESENTATIVE EMILICO B. LABAFUNDA DIRECTOR, COM	OWNER BENJAMIN E. DINGHO INTERIOR DESIGN	DRAWN BY: DPI CHECKED BY: RPI DATE: 03/08/2018 REVIEWED BY: DPO DATE: 10/08/2018	SHEET CONTENTS 2ND FLOOR POWER SYSTEM LAYOUT 3RD FLOOR POWER SYSTEM LAYOUT	SHEET NO. BB2 21 26 E-07
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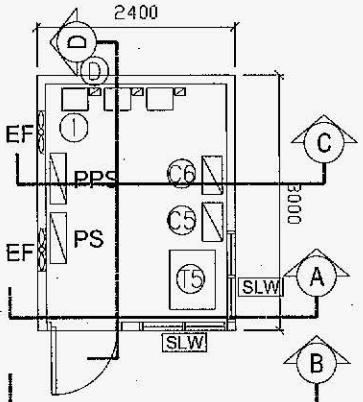


**BLOW-UP PLAN  
SOLAR ROOM POWER SYSTEM LAYOUT**

- ① DC DISCONNECTION SWITCH W/ SUPPRESSOR DOAT/AF 30 400V 30KAIC
  - ② INVERTER WITH STEEL RACK GALVANIZED 50mm x 50mm x 6mm(T) STEEL
  - ③ TRANSFORMER 75kVA, 400V (PRI) / 230V (SEC) 3Ø
  - ④ CIRCUIT BREAKER 150AT/AF 400V 3P, 30KAIC NEMA 1 ENCLOSURE
  - ⑤ CIRCUIT BREAKER 225AT/AF 230V 3P, 30KAIC NEMA 1 ENCLOSURE
- FL: FLOOD LIGHT 100W  
WP: WATER PROOF  
EF: EXHAUST FAN

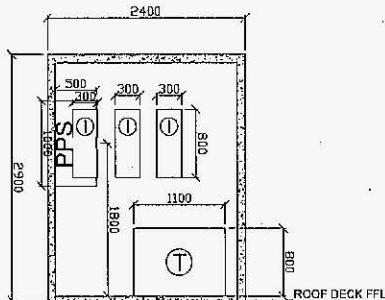


**BLOW-UP PLAN  
SOLAR ROOM LIGHTING SYSTEM LAYOUT**

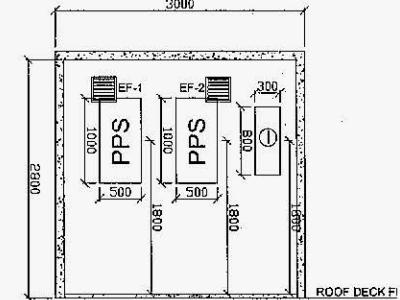


**PLAN**

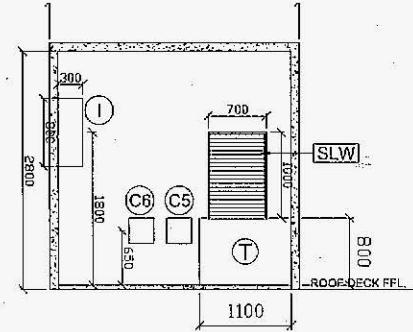
- SLW: STEEL LOUVER WALL  
 (T): TRANSFORMER  
 (I): INVERTER  
 (C5): CIRCUIT BREAKER  
 (C6): CIRCUIT BREAKER  
 (EF): EXHAUST FAN  
 (PS): PANEL BOARD  
 (PPS): PANEL BOARD



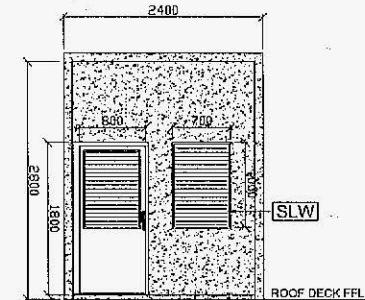
**SECTION A**



**SECTION D**



**SECTION C**



**SECTION B**



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FORM NO. 3010  
 Order of Section 31  
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 ARCHITECTURE  
 DEPARTMENT OF THE UNIVERSITY OF THE PHILIPPINES  
 DILIGENTIA ET VERITAS

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 DILIGENTIA ET VERITAS

PROJECT TITLE  
 THREE - STOREY BUILDING RENOVATION  
 Department of Budget and Management Arcache Building  
 DILIGENTIA ET VERITAS

UNIVERSITY REPRESENTATIVE  
 ENRICO S. TABANFUSA  
 OFFICER FOR  
 DILIGENTIA ET VERITAS

OWNER  
 BENJAMIN DICKNO  
 DILIGENTIA ET VERITAS

DRAWN BY:  
 DATE:  
 CHECKED BY: R.P.  
 SYSTEMS LAYOUT  
 DRAWING NO. 001  
 DATE:  
 DRAWING DETAILS OF THE  
 PROJECT ARE AS PER THE  
 DRAWINGS

BB2  
 23  
 26  
 E-11

REVIEWED BY: D.O.  
 DATE:  
 SOLAR CONTROL ROOM  
 SECTION

DATE:  
 17/8/2017

### GENERAL NOTES:

ALL ELECTRONICS WORKS HEREIN SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE, PROVISION OF THE LATEST APPROVED EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND REQUIREMENTS OF THE LOCAL POWER, TELEPHONE COMPANY AND ADMINISTRATION REQUIREMENTS.

- CONTRACTOR SHALL SECURE ALL WIRING PERMIT AND ALL FEES REQUIRED FOR THE WORKS AND FURNISH THE OWNER THE FINAL CERTIFICATE OF ELECTRICAL INSPECTION.
- IN CASE OF ANY DISCREPANCY BETWEEN PLANS AND SITE CONDITION, SPECIFICATION, DRAWINGS, VISIONS/ CHANGES, THE CONTRACTOR SHOULD IMMEDIATELY VERIFY AND CONSULT TO WITH ELECTRICAL ENGINEER.
- ALL LOCATION AND MOUNTING HEIGHT ARE SUBJECT TO APPROVAL OF ELECTRICAL ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE IN THE PREPARATION OF ELECTRICAL AS-BUILT PLANS DULY SIGNED AND SEALED BY P.E./PROFESSIONAL ELECTRICAL ENGINEER, AND ELECTRICAL AUTOCAD FILES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION OF SHOP OR CONSTRUCTION DRAWINGS REQUIRED BY OWNER/ARCHITECT/ENGINEERS. DRAWING SHALL BE PREPARED BY CONTRACTOR QUALIFIED ENGINEER, THIS INCLUDES DEVICES AND FIXTURES ELEVATION.
- CONTRACTORS TO VISIT SITE CONDITION AND INCLUDE ALL COST NECESSARY TO COMPLETE THE SYSTEM AT NO COST TO OWNER, INCLUDING CONSTRUCTION SERVICE AND EXPENSES FOR THE RESTORATION ANY DAMAGE INCURRED DURING INSTALLATION OR RELOCATION OF EXISTING FACILITIES ON BUILDING.
- CONTRACTORS TO LOCATE ALL SPLICING BOXES TO ACCESSIBLE PLACE OR WITH ACCESS PANELS.
- NOMINATED CONTRACTOR TO VERIFY ALL EQUIPMENT TO BE INSTALLED OR PLACE WITHIN THE STORE, AND MAKE A ADJUSTMENT WITH OWNERS/ ARCHITECT CONSENT.
- THIS DRAWINGS ARE DIAGRAMMATIC LAYOUT ONLY. ANY MATERIALS AND FITTING NOT SHOWN ON THIS PLANS BUT NEEDED TO COMPLETE THE SYSTEM AND OPERATION SHALL BE INCLUDED WITH THE CONTRACTOR SCOPE OF WORKS.

### SPECIFICATIONS:

- ALL WORKS SHOULD BE DONE UNDER DIRECT SUPERVISION OF LICENSED PROFESSIONAL OR REGISTERED ELECTRICAL ENGINEER.
- ALL MATERIALS TO BE USE SHALL BE NEW AND APPROVED TYPE FOR LOCATION.
- ALL MATERIALS TO BE USE SHALL BE BRAND NEW AND HAVE A "P.S." MARKS.
- CONDUTPIPE EMBEDDED WITHIN CONCRETE WALL SHALL HAVE A MINIMUM CEMENT PLASTERED OF 20MM THICK.
- ALL BOXES SHALL BE OCCUPIED ONLY OF 60 % OF WIRES VOLUME.
- AUXILIARIES WIRES AND CABLES SHALL BE P.DODGE/ PHIFLEX AND ENDURA.
- ALL CONDUIT AND FITTINGS SHALL BE IMC FOR TELEPHONE SYSTEM, FDAS/ PA AND BGM, CCTV SYSTEM AND DATA SYSTEM.

### MATERIAL SPECIFICATION

**CATV COAXIAL CABLE**  
MANUFACTURER: ENDURA BRAND  
MODEL NO: RG 59/U-A/LB  
CENTER CONDUCTOR: 22AWG SOLID COPPER COVERED  
DIELECTRIC MATERIAL: GAS-EXPANDED POLYETHYLENE  
NOMINAL OUTER DIAMETER (mm) : 3.71 + 0.10  
SHIELD: ALUMINUM FOIL 100%  
JACKET CUTTER DIAMETER (mm) : 8.71 + 0.10 PVC  
MAX RECOMMENDED PULLING TENSION (lb) : 52  
MAX BEND RADIUS (inches) : 75  
NOMINAL IMPEDANCE (ohms) : 75  
NOMINAL VELOCITY OF PROPAGATION: 85%  
NOMINAL CAPACITANCE (pF/m) : 54

**FIRE ALARM WIRE CABLE**  
APPROVED BRANDS SHALL BE,  
BUT ARE NOT LIMITED TO THE FOLLOWING:  
BRAND: PHEBUS DODGE  
PIXTURE WIRE TYPE TF [TWISTED OR SINGLE CORE]  
DESCRIPTION: SOLID OR STRANDED CONDUCTOR WITH PVC  
INSULATION  
CABLE STANDARD: UL 62  
SIZE RANGE: 0.75mm<sup>2</sup> - 1.25mm<sup>2</sup> [18AWG- 16AWG]  
USER APPLICATION: FOR SMALL APPLIANCES AND LIGHTNING  
FIXTURES,  
VOLTAGE/MAXIMUM OPERATING TEMPERATURE: 600V/60 (DEGREE  
STANDARD PACKAGING: IN COIL OR IN BOXES

**PIPE DETECTION AND ALARM SYSTEM**  
APPROVED BRANDS SHALL BE,  
BUT ARE NOT LIMITED TO THE FOLLOWING:  
BRAND: COOPER FIRE PRODUCT  
SMOKE DETECTOR: CPD321 AND CFR330  
MANUAL PULL STATION: CX201 and CX203  
HORN/STROBES: CFBB024

LEGEND	DESCRIPTION
TELECOMMUNICATION BACKBONE - TELECOMMUNICATION	
<input checked="" type="checkbox"/>	TELEPHONE / DATA
<input checked="" type="checkbox"/>	JUNCTION BOX
<input checked="" type="checkbox"/>	INTERMEDIATE DISTRIBUTION FRAME (SIZE AS REQUIRED)
<input checked="" type="checkbox"/>	PULL BOX SIZE AS REQUIRED
<input checked="" type="checkbox"/>	PULL BOX SIZE AS REQUIRED
<input checked="" type="checkbox"/>	RISER UP
<input checked="" type="checkbox"/>	VOICE AND DATA LINE
<input checked="" type="checkbox"/>	NAVIGATION/DISTRIBUTION FRAME (SIZE AS REQUIRED)
<input checked="" type="checkbox"/>	FIBER OPTICS PANEL
<input checked="" type="checkbox"/>	FIBER PANEL
<input checked="" type="checkbox"/>	PATCHING PANEL
<input checked="" type="checkbox"/>	UNINTERRUPTIBLE POWER SUPPLY
<input checked="" type="checkbox"/>	PUBLIC ADDRESS TERMINAL BLOCK
<input checked="" type="checkbox"/>	PABX LINE
<input checked="" type="checkbox"/>	MICROPHONE (FACADE)
<input checked="" type="checkbox"/>	PRE - AMPLIFIER
<input checked="" type="checkbox"/>	MEDIA PLAYER
<input checked="" type="checkbox"/>	PRE RECORDED VOICE
<input checked="" type="checkbox"/>	AU/P
<input checked="" type="checkbox"/>	POWER AMPLIFIER
<input checked="" type="checkbox"/>	MATRIX CONTROLLER
TELECOMMUNICATION BACKBONE - FDAS	
<input checked="" type="checkbox"/>	FIRE ALARM CONTROL PANEL
<input checked="" type="checkbox"/>	SIREN/EJECTOR
<input checked="" type="checkbox"/>	UNINTERRUPTIBLE POWER SUPPLY
<input checked="" type="checkbox"/>	MANUAL PULL STATION
<input checked="" type="checkbox"/>	FIRE ALARM BELL
<input checked="" type="checkbox"/>	SIREN LIGHT
<input checked="" type="checkbox"/>	FIRE ALARM LINE
<input checked="" type="checkbox"/>	END OF LINE
<input checked="" type="checkbox"/>	FULL BOX SIZE AS REQUIRED
<input checked="" type="checkbox"/>	FACE FIRE ALARM CONTROL PANEL
<input checked="" type="checkbox"/>	EVT/EM
<input checked="" type="checkbox"/>	SPRINKLER CONTROL PANEL
TELECOMMUNICATION BACKBONE - CCTV	
<input checked="" type="checkbox"/>	COLORED CAMERA CEILING/WALL MOUNTED (WATERPROOF)
<input checked="" type="checkbox"/>	DIGITAL VIDEO RECORDER
<input checked="" type="checkbox"/>	DOOR ACCESS CONTROL SYSTEM
<input checked="" type="checkbox"/>	JUNCTION BOX FOR MAGNETIC DOOR
<input checked="" type="checkbox"/>	SECURITY LINE

NOTE:  
1. THE PURPOSE OF THIS SCHEMATIC IS TO PROVIDE GENERAL CONCEPT AND PRINCIPLE OF THE PROPOSED CCTV SURVEILLANCE SYSTEM.

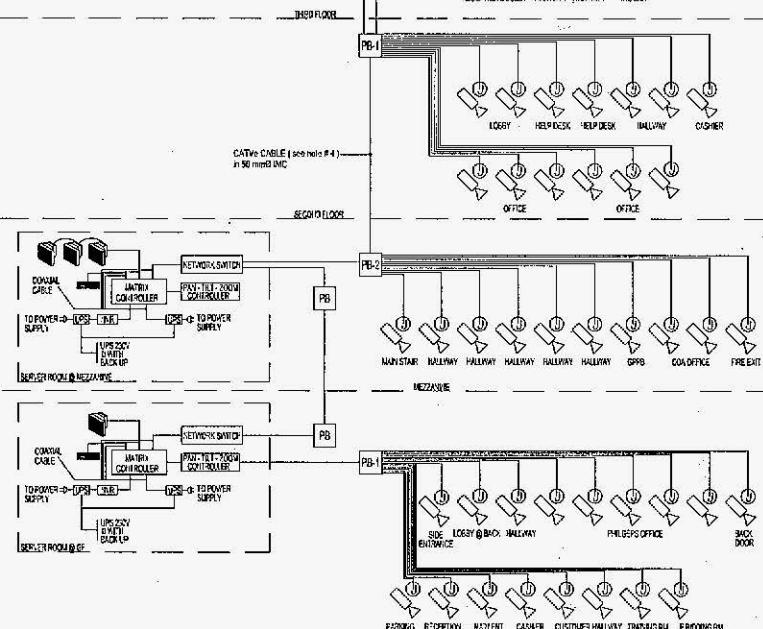
2. CONTRACTOR TO PROVIDE COMPLETE CCTV SURVEILLANCE SYSTEM TO INCLUDE ALL WIRING AND ACCESSORIES, DEVICES AND EQUIPMENT AS MAY BE DEEM NECESSARY FOR A SUCCESSFUL OPERATION SYSTEM.

3. ALL SECURITY DEVICES ARE CONNECTED TO THEIR RESPECTIVE POWER SUPPLY.

4. QUANTITY OF RD-S01 INSIDE A METALLIC SHELL BE:

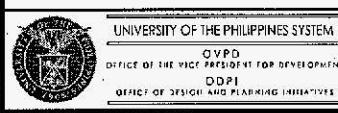
CONDUIT SIZE	20mm <sup>2</sup>	25mm <sup>2</sup>	32mm <sup>2</sup>
RG-59U	1-2	3-4	6-8
<b>FULL BOX SIZES</b>			
FB-1	300 mm x 300 mm x 150 mm		
FB-2	500 mm x 600 mm x 200 mm		

5. QUANTITY OF CATV MONITORS WILL BE PER ACTUAL REQUIREMENT QUANTITY OF CAMERAS. SCREEN FORMAT VIEW SHALL BE MEDIUM OF FOURTH CAMEAOS SERIES.  
6. PROVIDE AT LEAST TWO (2) SPOT TYPE MONITORS.



CLOSED CIRCUIT TELEVISION (CCTV) RISER DIAGRAM

SCALE: NTS



PROPOSED ACT PLAN  
Architectural Section  
Proposed Architectural Section of the Building Renovation Project  
The proposed architectural section shows the elevation and cross-section of the building, detailing the structural elements, walls, and openings.

ARCHITECTS OF RECORD

DOLORES CECILLA F. TAYSON JESUS AFOLINARIO C. BJ. AGONG

RODRIGO J. PENILLA

LUNDI D. SHIA  
LUNDI D. SHIA

PROJECT TITLE  
THREE - STORY BUILDING RENOVATION  
Department of Budget and Management  
Arcachon Building  
SAN MIGUEL CITY OF MANILA

UNIVERSITY REPRESENTATIVE  
ENRIQUETA LABAFUNDA  
DIRECTOR  
ELVIRA A. TAMOZA  
DIRECTOR, ODP

OWNER  
GENERAL NOTES/  
SPECIFICATIONS  
MAPS  
LEGEND  
DRAWN BY: JOS  
SHEET NO.: 24  
DATE: 05/05/17  
CHECKED BY: RUMI  
DATE: 05/05/17  
REVIEWED BY: DIO  
DATE: 05/05/17  
DRAWN BY: JOS  
SHEET NO.: 26  
DATE: 05/05/17  
CHECKED BY: RUMI  
DATE: 05/05/17  
REVIEWED BY: DIO  
DATE: 05/05/17

B7B2  
AUX-01

