



- 1. R.A. 9292
- 2. P.D. 1096
- 3. Resolutions and Memorandum Circular
- 4. Requirements for Electronics Permit Application
- 5. Schedule Of Fees
- 6. Referral Codes

## 1. REPUBLIC ACT 9292 ELECTRONICS ENGINEERING LAW OF 2004

an act providing for a more responsive and comprehensive regulation for the registration, licensing, and practice of Professional Electronics Engineers, Electronics Engineers, and Electronics Technicians, repealing republic act 5734, otherwise known as "the Electronics and Communications Engineering act of the Philippines"



### Nature and Scope of Practice of Electronics Engineering and Electronics Technician Professions (Article I, Section 5)

a) The scope and nature of practice of the Electronics Engineer shall embrace and consist of any work or activity relating to the application of engineering sciences and/or principles to the investigation, analysis, synthesis, planning, design, specification, research and development, provision, procurement, marketing and sales, manufacture and production, construction and installation, tests/measurements/control, operation, repair, servicing, technical support and maintenance of electronic components, devices, products, apparatus, instruments equipment, systems, networks, operations and processes in the fields of electronics, including communications

and/or telecommunications, information and communications echnology (ICT), computers and their networking and hardware/firmware/software development and applications, broadcast/broadcasting, cable and wireless television, consumer and industrial electronics, electro-optics/photonics/optoelectronics, electro-magnetics, avionics, aerospace, navigational and military applications, medical electronics, robotics, cybernetics, biometrics and all other related and convergent fields; it also includes the administration, management, supervision and regulatory aspects of such works and activities; similarly included are those teaching and training activities which develop the ability to use electronic engineering fundamentals and related advanced knowledge in electronics engineering, including lecturing and teaching of technical and professional subjects given in the electronics engineering and electronics technician curriculum and licensure examinations.

The scope and nature of practice of the **Professional** ectronics Engineer shall embrace and consist of all of the above plus the sole authority to provide consulting services as defined in this Act and to sign and seal electronics plans, drawings, permit applications, specifications, reports and other technical documents prepared by himself/herself and/or. under his direct supervision.

The scope and nature of practice of the **Electronics** echnician profession shall embrace and consist of any nonengineering work or activity relating to the installation, construction, operation, control, tests and measurements, diagnosis, repair and maintenance, manufacture and production, sales and marketing of any electronic component/s, device/s, products, apparatus, instruments, equipment, system/s, network/s, operations and processes located on land, watercraft, aircraft, industrial plants or commercial establishments, including the teaching and training of technical and professional subjects given in the electronics technician curriculum and licensure examinations.

## 2. PRESIDENTIAL DECREE 1096 (PD 1096)

known as the "National Building Code of the Philippines"

# RULE I- GENERAL PROVISIONS Section 103. Scope and Application

1. The scope of this IRR shall cover the following disciplines: architectural, civil/structural, electrical, mechanical, sanitary, plumbing, and **ELECTRONICS**.



2.a. Ancillary Permits

The building permit is null and void if not accompanied by the *Ancillary Permits*."

vii. Electronics Permit

### 3. Resolutions and Memorandum Circular



Republic of the Philippines Professional Regulation Commission Manila



BOARD OF ELECTRONICS ENGINEER MEMORANDUM CIRCULAR NO. 2009-23 Series of 2009

TO: ALL CITY AND MUNICIPAL BUILDING OFFICIALS

ALL ICTY AND MUNICIPAL ENGINEERS

CITY AND MUNICIPAL LOCAL GOVERNMENT UNITS

SUBJECT: IMPLEMENTATION OF REPUBLIC ACT NO. 9292 (RA 9292), KNOWN AS THE "ELECTRONICS LAW OF 2004" IN THE PROCESS AND APPROVAL OF BUILDING PERMITS FOR BUILDING AND STRUCTURES REQUIRED

UNDER PRESIDENTIAL DECREE NO. 1096 (P.D NO. 1096), THE "NATIONAL BUILDING CODE OF THE PHILIPPINES"

In line with the implementation of Section 3 and 29 of R.A 9292 and pursuant to Board Resolution No. 01 Series of 2007, the "Rules and Regulation Implementing the Philippine Electronics Engineering Act of 2004." And the revised Implementing Rules and Regulation of National Building Code Approved by the Department of Public work and Highways (DPWH) which to effect on April 30, 2005 and Department of Public works and Highways National Building Code Development Office Memorandum Circular No. 01, series of 2005, All City and Municipal Building Officials, City and Municipal Engineers are Directed to comply with the Following Requirements in the processing and Approval of Electronics Permit for Building and Structures required under the Presidential Decree No. 1096 (P.D. No. 1096), the National Building Code of the Philippines.

 To require the Electronic Plan for Building and Structures which are submitted by building owner/s as part of their application for building permits be prepared, signed and sealed by registered and licensed Professional Electronics Engineer (PECE).

The plans design which the registered and licensed Professional Engineer shall prepare, sign and seal include the following:

- a) Location and Vicinity Plan;
- b) General layout plans with legends
- c) Rider Diagram
- d) Isometry of the system
- e) Equipment specifications
- f) Design analysis, As Applicable
- g) Cost Estimates
- 2) To require the owners of a building who is issued or granted by a building permit to engaged the services of a duly licensed and registered Professional Electronics Engineer/s to undertake the full time inspection and supervision of the works and likewise, to require the certificate of Completion if the said project be prepared and signed by licensed and registered Professional Electronics Engineers (PECE) stating that the works conforms to the approved plans and specifications.
- 3) To engage and assigned only a licensed and registered PECE/ECE as part of the staff of the Office of City and municipal Building Official to evaluate Electronics Engineering plans, design and other related documents as to compliance with the Philippines Electronic Code adopted and promulgated by the Board.

Section 29 of RA 9292 is hereunder quoted as follow:

Sec. 29. Seal of the Professional Electronics Engineers -

All licensed Professional Electronics Engineer shall obtain and use a seal of a design prescribed by the Board bearing the registrant's name, registration number and title. Plans, drawing, permit application, specification, report and other technical documents prepared by and / or executed under the supervision of and issued by the professional Electronics Engineer shall be stamped on every sheet/page with said seal indicating therein his/her current Professional Tax Receipt (PTR) number, date/place of payment and current membership number in the Accredited Professional Organization, when filed with government authorities or when used professionally.

Violation of any of the foregoing shall be ground for administrative and / or criminal action.

Section 35 of RA 9292 finally provides:

Section 35. Penal Provision -

The following shall be punished by the fine of not less than One hundred thousand pesos (P100,000.00) no more than One million pesos (P1, 000, 000.00), or by imprisonment of not less than six (6) months nor more than six (6) years, or both, in the discretion of the court:

- a) xxx
- b) xxx
- c) xxx
- d) xxx
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- i) mm

Strict compliance herewith is hereby enjoined.

Please be guided accordingly.

Manila Philippines

November 19, 2009

DIAS P. LAPENA, JR

Electronics
Engineer
Memorandum

**Board of** 

Circular No.

2009-23

Series of 2009



### REPUBLIC OF THE PHILIPPINES DEPARTMENT OF THE INTERIOR AND LOCAL GOVERNMENT Francisco Gold Condominium II, EDSA Cor. Mapagmahal St., Diliman, Quezon City

#### OFFICE OF THE SECRETARY

MEMORANDUM CIRCULAR

January 04, 2013

No. 2013- 01

: ALL PROVINCIAL GOVERNORS, CITY MAYORS, MUNICIPAL MAYORS, PRESIDING OFFICERS OF THE SANGGUNIANG PANLALAWIGAN, SANGGUNIANG PANLUNGSOD AND SANGGUNIANG BAYAN, REGIONAL GOVERNOR OF THE ARMM AND DILG REGIONAL DIRECTORS

SUBJECT

TO

IMPLEMENTATION OF THE "ELECTRONICS ENGINEERING LAW OF 2004"

Electronics engineering is important in nation building and development.

On April 17, 2004, Republic Act No. 9292, "Electronics Engineering Law of 2004", was enacted to promote and strengthen the licensing and regulation of the professional practice of electronics engineering in the country.

Relatedly, local governments share the responsibility of developing and nurturing competent, productive and well-rounded Professional Electronics Engineers, Electronics Engineers and Electronics Technicians whose standards of practice and service are excellent and globally competitive.

In this connection, every Provincial Governor, City Mayor and Municipal Mayor is enjoined to:

- Ensure that Professional Electronics Engineers or Electronics Engineers supervise, manage and administer electronics services and in the regulation of electronics works and activities as defined under Section 5 of the said Act;
- Ensure that positions or assignments, requiring the services of PECE, ECE or ECT, are filled-up only by duly registered PECE, ECE or ECT;

- Cause the assignment of personnel who are duly registered PECE, ECE or ECT to offices, sections, divisions or departments for the effective implementation of e-government projects;
- 4. Engage the assignment of a duly registered PECE or ECE as part of the staff of the Office of the Provincial, City or Municipal Building Official to evaluate Electronics Engineering Plans, design and other related documents as to compliance with the Philippine Electronic Code; and
- 5. Cause the enactment of an ordinance in support of the intent of the said Act.

All DILG Regional Directors and the Regional Governor of the ARMM are hereby directed to cause the immediate and widest dissemination of this Memorandum Circular and to ensure that this Circular is effectively communicated to concerned local authorities.

By Authority of the Secretary

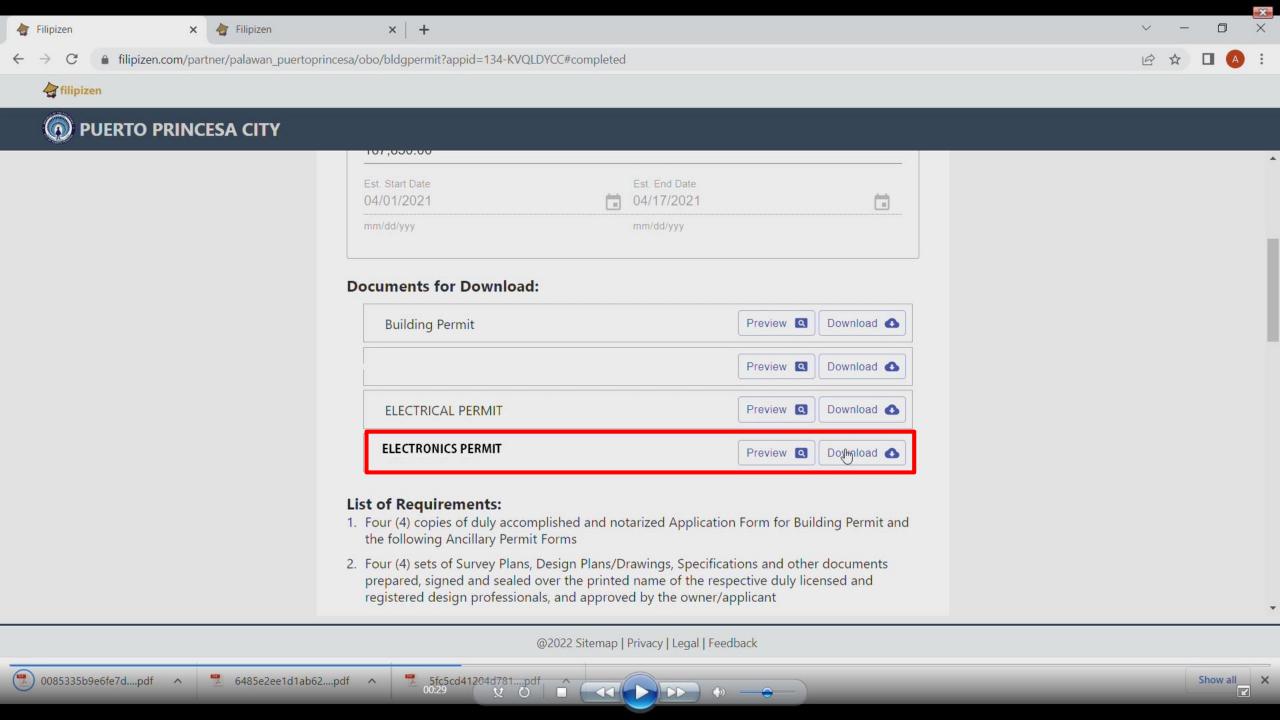
ATTY. RAFAEL ANTONIO M. SANTOS Undersecretary and Officer-In-Charge Department of the Interior and Local Government (DILG)

Memorandum Circular No. 2013-01



### **TYPES OF ELECTRONICS PERMIT APPLICATION**





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Republic of the Philippines City of PUERTO PRINCESA Province of PALAWAN

#### OFFICE OF THE CITY BUILDING OFFICIAL

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Republic of the Philippines City of PUERTO PRINCESA Province of PALAWAN

OFFICE OF THE CITY BUILDING OFFICIAL

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BOX 2. Design Professional/ Professional



Republic of the Philippines City of PUERTO PRINCESA Province of PALAWAN

#### OFFICE OF THE CITY BUILDING OFFICIAL

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Republic of the Philippine City of PUERTO PRINCESA Province of PALAWAN

#### OFFICE OF THE CITY BUILDING OFFICIAL

#### **ELECTRONICS PERMIT**

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BOX 3. Professional Electronics Engineer (PECE) who signed and sealed electronics plans and specifications, with photocopy of valid Professional Tax Receipt (PTR) and valid Professional Regulation Commission (PRC) License.

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Republic of the Philippines City of PUERTO PRINCESA Province of PALAWAN

#### OFFICE OF THE CITY BUILDING OFFICIAL

#### **ELECTRONICS PERMIT**

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BOX 4. Licensed Electronics Practitioner who is in-charge of electronics works, with photocopy of valid PTR and valid PRC License

BOX 4	
SUPERVISOR/ IN-CHARG	E OF ELECTRONICS WORKS
PROFESSIONAL ELECTRONI	CS ENGINEER ELECTRONICS ENGINEER
(Signature Ov	er Printed Name)
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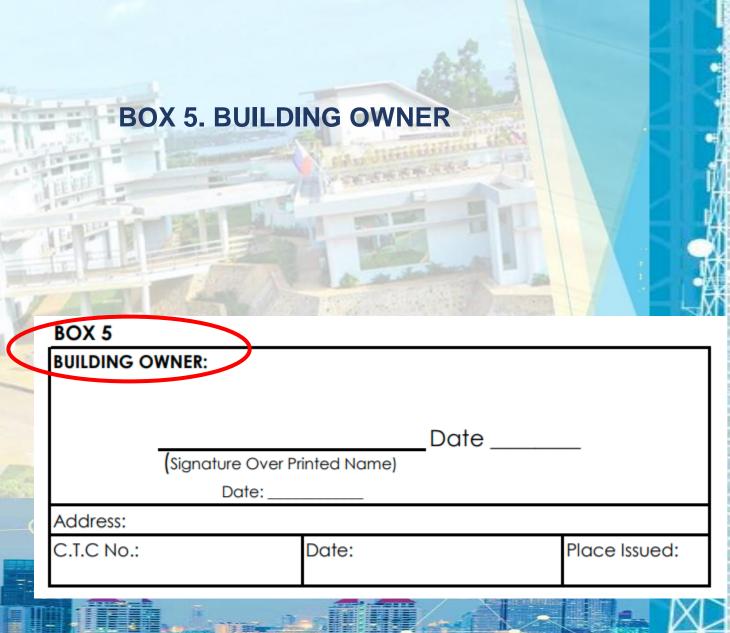


Republic of the Philippines City of PUERTO PRINCESA Province of PALAWAN



#### OFFICE OF THE CITY BUILDING OFFICIAL

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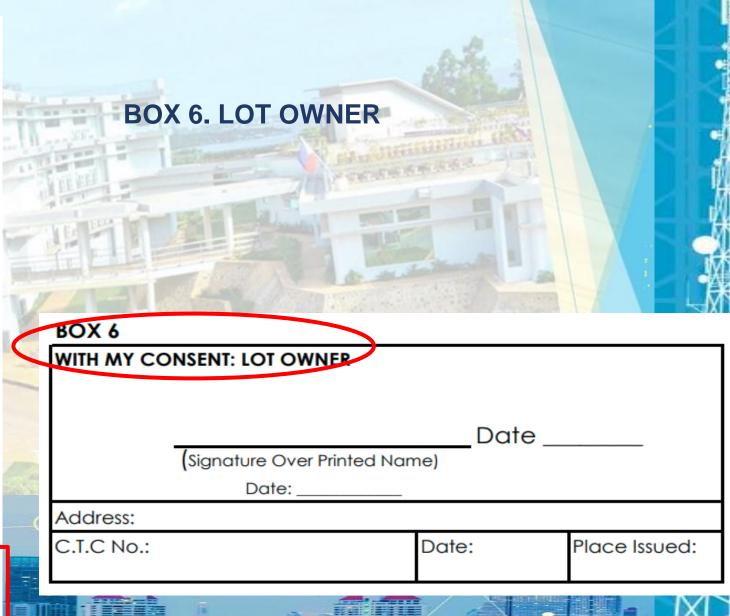


Republic of the Philippines City of PUERTO PRINCESA Province of PALAWAN



#### OFFICE OF THE CITY BUILDING OFFICIAL

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### **b.** Electronics Plan

### 1. Telecommunication System

**Examples:** Communication towers, Base Station, Dish Antenna, Call Center, Support Center, Cordless Phone, Landline, Internet, and all types/ forms of wired or wireless communication

### 2. Broadcasting System

Examples: Broadcast station for radio and TV for both commercial and training purposes

### 3. Television System

Examples: MATV (Master Antenna TV), CATV (Cable TV)

### Information Technology System

**Examples:** Computer Network, Local Area Network (including workstations, servers, routers, etc.)

### 5. Security and alarm System

Examples: Burglar alarms, Intrusion Detection systems, Lighting controls, monitoring, and surveillance system/ Closed Circuit Television (CCTV), sensors, detectors, parking management system, barrier controls, signal light)

### 6. Electronic Fire Alarm System

**Examples:** Fire Alarm Control Panel (FACP), smoke detectors, heat detectors, Notification devices, Audible Devices

### 7. Sound Communication System

Examples: Music/paging/conference system, Sound-reinforcement background

- 8. Centralized Clock System
- 9. Electronically Controlled Conveyor System
- 10. Electronically/ Computerized Process Controls and Automation System (Examples: Computer process monitoring, Direct digital control, Distributed control systems, Numerical control and robotics, Programmable logic control, Supervisory control and Data Acquisition)
- 11. Building Automation Management and Control System
- 12. Building Wiring Utilizing Copper Cable, Fiber Optic Cable or other Medial
- 13. Any other Electronics and I.T. System, Equipment, Apparatus,

  Device and/or Component

### **b Electronics** Plan

### **General Notes**

# Guidelines and Specifications

✓ <u>Legend and</u>
<u>Symbols</u>

#### **GENERAL NOTES**

- WIRING SHALL BE IN CONCEALED CONDUSTRIUCKING UNLESS OTHERWISE SPECIFIED
- THE POSITION OF ALL TIELDO CUTLETS AS SHOWN IN THE DRAWINGS ARE APPROXIMATE ONLY. THE EXACT POSITION SHALL BE DETERMINED ON SITE.
- THE SPECIALTY CONTRACTOR SHALL BE RESPONSIBLE FOR THE LABELING OF ALL EQUIPMENT THEOLOGICUIT THE INSTALLATION.
- THE SPECIALTY CONTRACTOR SHALL BE RESPONSIBLE TO LIAISE WITH THE LOCAL GOVERNMENT FOR ALL THE CLEARANCES, CABLE JOINTING AND TESTING FOR THE INSTALLATION.
- THE OVERALL RESISTANCE FOR THE EARTHING SYSTEM (ELECTRICAL) SHALL COMPLY WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL AND ELECTRONICS CODE.
- THE SPECIALTY CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING OF ALL CABLECONDUIT PENETRATION OPENING BETWEEN FLOOR SLAB AND WALLS ETC. WITH APPROVED FIRE RATING MATERIALSEALANT.
- ALL CABLES TO BE LAID IN HD. uPVC PIPES SHALL BE ENCASED IN CONCRETE WHEN LAID ACROSS THE DRIVINGS.
- THE SPECIALTY CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPOTENTIAL GROUNDINGALL METAL PARTS COMPLETED BY OTHER SUB-CONTRACTORS TO THE NEAREST BONDING ELECTRICAL PAREL.
- THE SPECIALTY CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR, MATERIAL AND EQUIPMENT FOR SATISFACTORY COMPLETION OF THE ENTIRE TELECOMMUNICATION INSTALLATION AS GENERALLY DESCRIBED IN THE SPECIFICATION ANDORS HAVING ON DRAWNINGS.
- ALL LOCATIONS OF EQUIPMENT AND CABLE ROUTES SHOWN ON THE DRAWING ARE INDICATIVE ONLY. THE EXACT LOCATIONS MUST BE COCROBINATED ON THE STILL OF INSTALLATION. FULLY COORDINATED SHOP DRAWINGS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVA. BEFORE COMMENCEMENT OF WORK.
- ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF PHILIPPINE ELECTRICALELECTRONICS, ELA AND BISD CODE. THEY SHALL BE PAINTED WITH A COST OF ANTI-RUST PAINT AND TWO COSTS OF SEMI-ALOSS TEAK PAINT OF BEST CHALLIFY TO THE APPROVAL OF THE CONSIST TAKE.
- ALL DISTRIBUTION FRAME CONDUITS WHICH ARE EXPOSED SHALL BE PAINTED WITH A COAT OF RUST-RESISTING PRIMER AND TWO COATS OF ELECTRIC GRANGE OR AS SPECIFIED BY THE ARCHITECT.
- EACH CIRCUIT SHALL BE TESTED FOR GROUNDS AND SHORTS BY MEANS OF INSULATION RESISTANCE TESTING INSTRUMENT APPLYING A VOLTAGE NOT LESS THAN 500Y D.C. ON CIRCUIT UNDER TEST.
- H. CASLES FOR ESSENTIAL CIRCUITS SUCH AS EMERGENCY LIGHTING CIRCUITS & PIRE FIGHTING EQUIPMENT CIRCUITS ETC. SHALL NOT BE DROWN INTO THE SAME CONDUIT INTENDED FOR NORMAL CIRCUITS AS PER PEC.
- 15. ALL TELECOMMUNICATIONS OUTLET, TELCO EDUPMENT, ETC., LOCATIONS SHOWN ARE INDICATIVE AND APPROXIMATE ONLY WAS THE ELECTRICAL CONTRACTOR MUST COORDINATE WITH THE ARCHITECT AND OR THE INTERIOR DESIGNER, AS WILL AS EQUIPMENT SUPPLIES.
- THE SPECIALTY CONTRACTORS SHALL DETAIN APPROVAL FROM STRUCTURAL ENGINEERS FOR PENETRATION THROUGHING BEAMS AND FLOOR SLABS PRIOR TO CONSTRUCTION.
- ALL CONDUITS LAYOUT AND INSTALLATION METHODS SHALL BE IDENTICAL IN ALL ROOMS AS MUCH AS DOSCRIPE.
- 16. TESTING CERTIFICATES SHALL BE PROVIDED BY THE SPECIALTY CONTRACTOR PRIOR TO FINAL TURNOVER.
- ALL MATERIAL SCABLES TO BE USED AND INSTALLATION NETHOD SHALL. COMPLY WITH THE TECHNICAL SPECIFICATION, STANDARDS, CODE OF PRACTICE AND AUTHORITY REQUIREMENT.
- 26. THE SPECIALTY CONTRACTOR IS REQUIRED TO SUBMIT DETAILS OF FINAL ARRANGEMENT AND DIMENSIONAL LAYOUT OF ALL HEMS EQUIPMENT IN RESPECTIVE ROOMS TO SUIT SITE CONDITIONS, ETC. FOR REVIEW BY THE CONSULTANT ISSUED COMMENCEMENT INSTALLATION.
- 24. TELECOMMUNICATION OUTLET SHALL BE CATEGORY 6 OR OTHERWISE STATED.
- 22 ALL ELECTRICALELECTRONICS EQUIPMENT & ACCESSORIES THAT ARE EXPOSED OR LESS THAN 2.0% AWAY FROM WATER SOURCES SHALL BE OF WEATHERPROOF TYPE.
- 23. COLOR FOR ALL TELECOMMUNICATION FACE PLATES SHALL BE AS PER ARCHITECT SINTERIOR DESIGNERS
- 24. THE SPECIALTY CONTRACTOR SHALL NOTE THE POSITIONS OF TELECOLA POINTS, AS SHOWN ON PORWHOUGH, THE ACTUAL POSITIONS SHALL BE MADED ON THE ACHORITYST ON INTERIOR DESIGNARIES ORWINGS. THE ELECTRICAL DOS CONTRACTOR IS DESIGNED TO HAVE ALLOWED IN HIS TENDER PRICE FOR ALL NECESSARY SITE ADJUSTMENT OF SUIT THE FIRM. POSITIONS.
- 25. THE SPECIALTY CONTRACTOR SHALL LIAISE WITH OTHER CONTRACTOR TO ENSURE THAT THE POWER
- SPECIALTY CONTRACTORS SHALL LIAISE WITH INTERIOR DESIGNERARCHTECT ON THE EXACT LOCATIONS A MOLIVITIES HEIGHTS IF APPLICABLE) OF OUTLETS, MAIN DISTRIBUTION FRAME, INTERNEDIATE DISTRIBUTION FRAME REFORE LAYING THE CONDUSTS.
- 27. REFER TO SPECIFICATION FOR FULL DETAILS OF EQUIPMENT AND SPECIFICATIONS.
- THE ELECTRONICS WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF DULY LICENSED ELECTRONICS ENGINEER AUTHORIZED AS PER RIA 9292.

UPS	230V, 1Ø, UPS, 15 MIN BACK-UP (RATING AS INDICATED)		SCHEMATIC DIAGRAMS
SD	SMOKE DETECTOR	EC-02	FIRE DETECTION AND ALARM SYSTEM AND PUBLIC ADDRESS RISER DIAGRAM
<b>®</b>	HEAT DETECTOR	EC-03	COMMUNITY ACCESS TELEVISION AND CLOSED CIRCUIT TELEVISION RISER DIAGRAM
MDF	MAIN DISTRIBUTION FRAME	EC-04	GROUND FLOOR AND SECOND FLOOR CLOSED CIRCUIT TELEVISION AND STRUCTURED CABLING SYSTEM LAYOUT
EPABX	ELECTRONIC PRIVATE AUTOMATIC BRANCH EXCHANGE	EC-05	GROUND FLOOR AND SECOND FLOOR FIRE DETECTION & ALARM SYSTEM AND PUBLIC ADDRESS SYSTEM LAYOUT
F	FIRE ALARM MANUAL PULL STATION	EC-06	MISCELLANEOUS DETAILS - 1
SL (	FIRE ALARM SOUNDER WITH STROBE LIGHT	EC-07	MISCELLANEOUS DETAILS - 2
+	HOMERUN TO FACP	EC-08	MISCELLANEOUS DETAILS - 3
-	END OF LINE RESISTOR		n.
<b>⊠</b> PB	PULLBOX		
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DRAWING LIST

EC-01

GENERAL

DRAWING LIST

UNSHIELDED TWISTED PAIR

CATEGORY

WAP

POLYVINYL CONDUIT

INTERMEDIATE METALLIC CONDUIT

UNINTERRUPTIBLE POWER SUPPLY

WITH WEATHERPROOF ENCLOSURE

CLOSED CIRCUIT TELEVISION

WIRELESS ACCESS POINT

DESCRIPTIONS

FIRE ALARM CONTROL PANEL

(VOICE & DATA ) WALL MOUNTED

PUBLIC ADDRESS SYSTEM LAYOUT

CEILING MOUNTED CAMERA (DOME)

WALL MOUNTED CAMERA (BULLET TYPE) WEATHERPRO

(DATA ) WALL MOUNTED

JUNCTION BOX

CABLE TV OUTLET

NETWORK VIDEO RECORDER

SYMBOL

NVR

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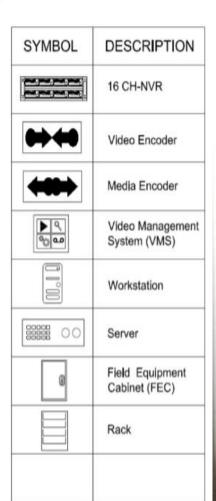
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### **Legend and Symbols**

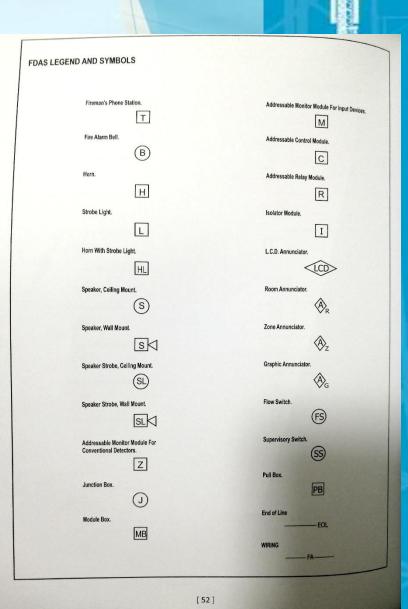
### **CLOSED-CIRCUIT TELEVISION (CCTV)**

#### COMMON SYMBOLS USED IN CCTV

SYMBOL	DESCRIPTION			
	Fixed Box Camera			
	Bullet Camera			
	Dome Camera			
	PTZ Camera			
32" MONTON	32" Monitor			
23° MONTOR	23" Monitor			
HIPPONE	Keyboard			
	Patch Panel			
(International Associations)	24 Port Switch			

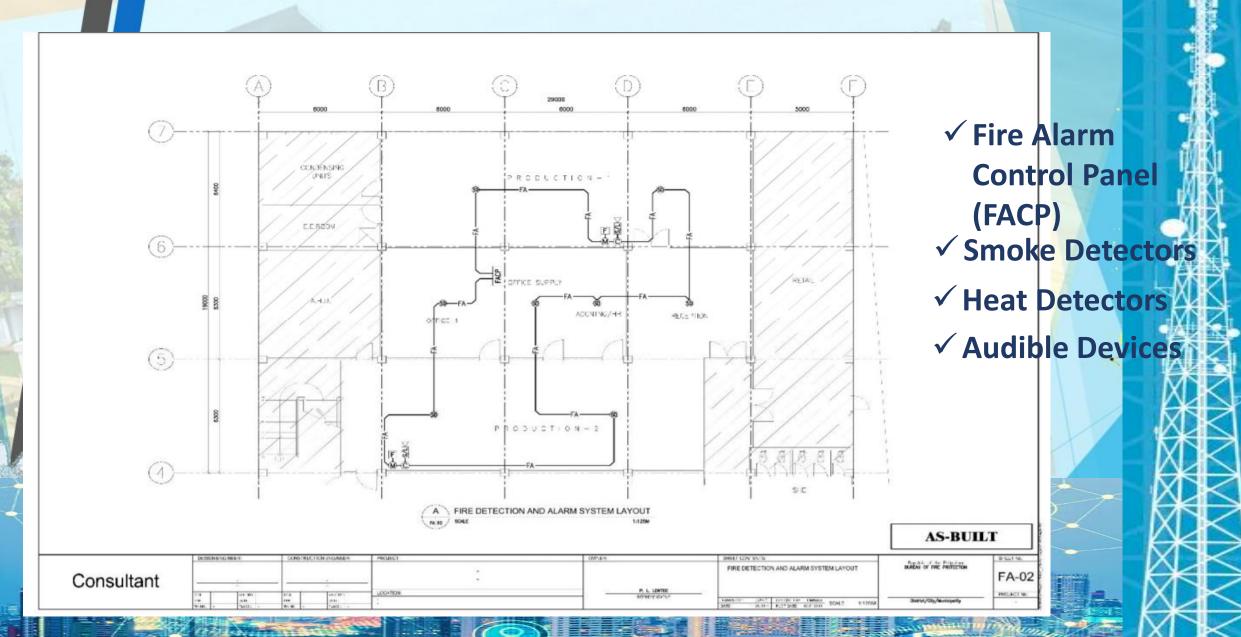


### ANNEX A: FDAS LEGEND AND SYMBOLS FDAS LEGEND AND SYMBOLS Fire Alarm Control Panel. FACP Main Fire Alarm Control Panel. Carbon Monoxide Detector. MFACP Sub Fire Alarm Control Panel. Conventional Manual Pull Station. SFACP Graphics Workstation. Fire Fighter's Inter-Active Display. Addressable Combination Detector ASDP Addressable Duct Smoke Detector Conventional Heat Detector. Addressable Manual Pull Station. Fireman's Phone Jack. ARCP Pre-Action Deluge Control Panel. PDCP

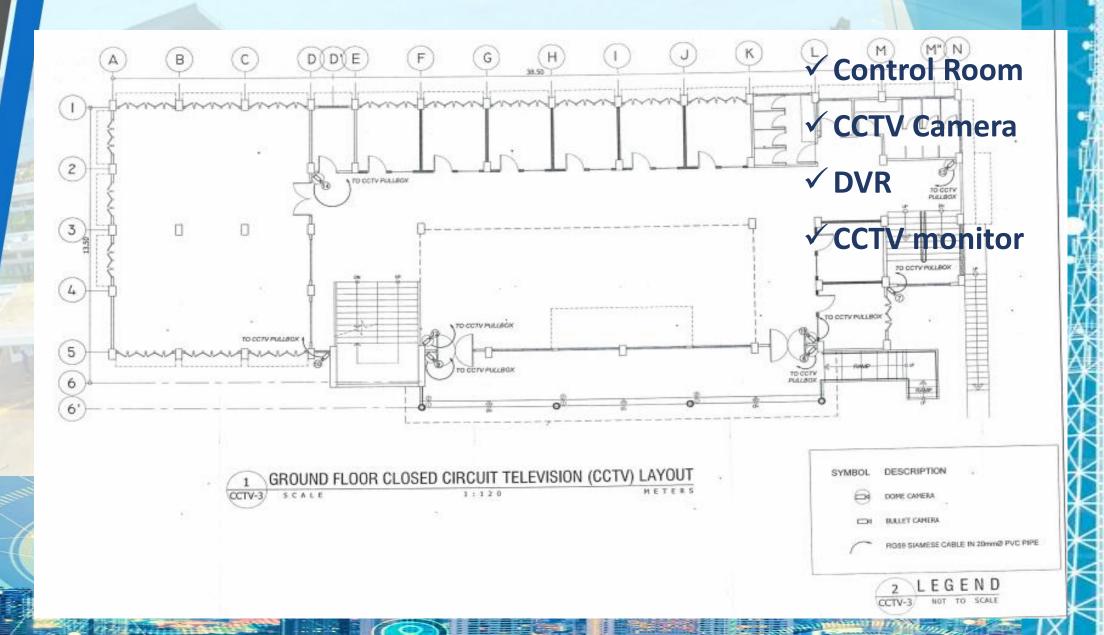


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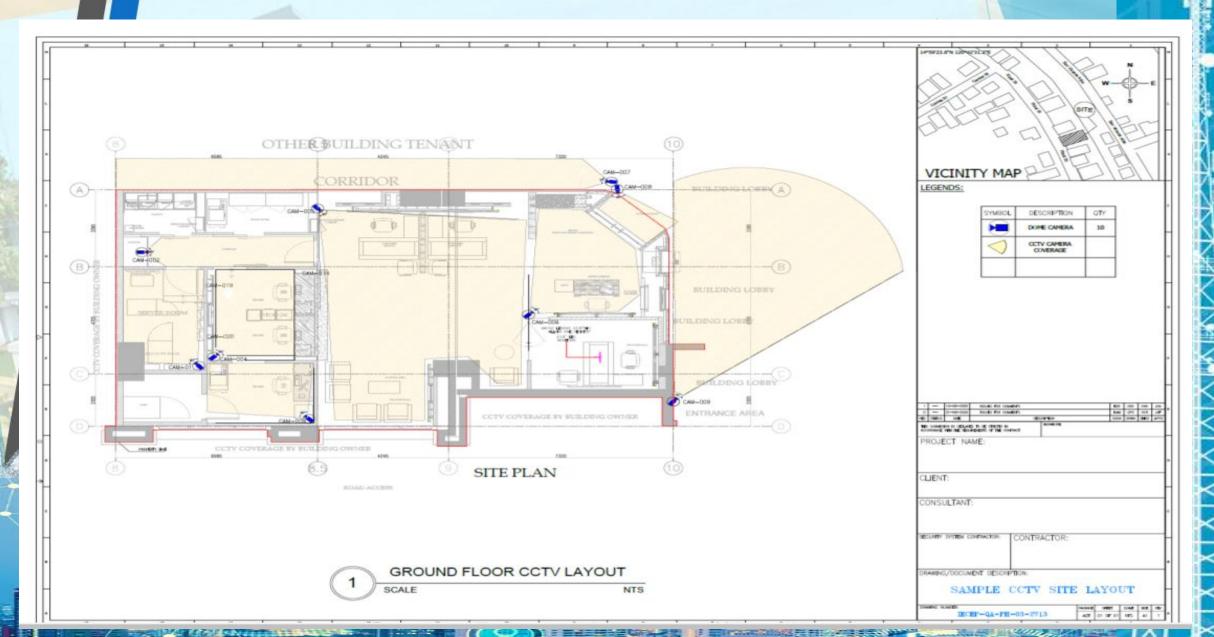
### Sample of Floor Plan (ELECTRONIC FIRE ALARM SYSTEM)



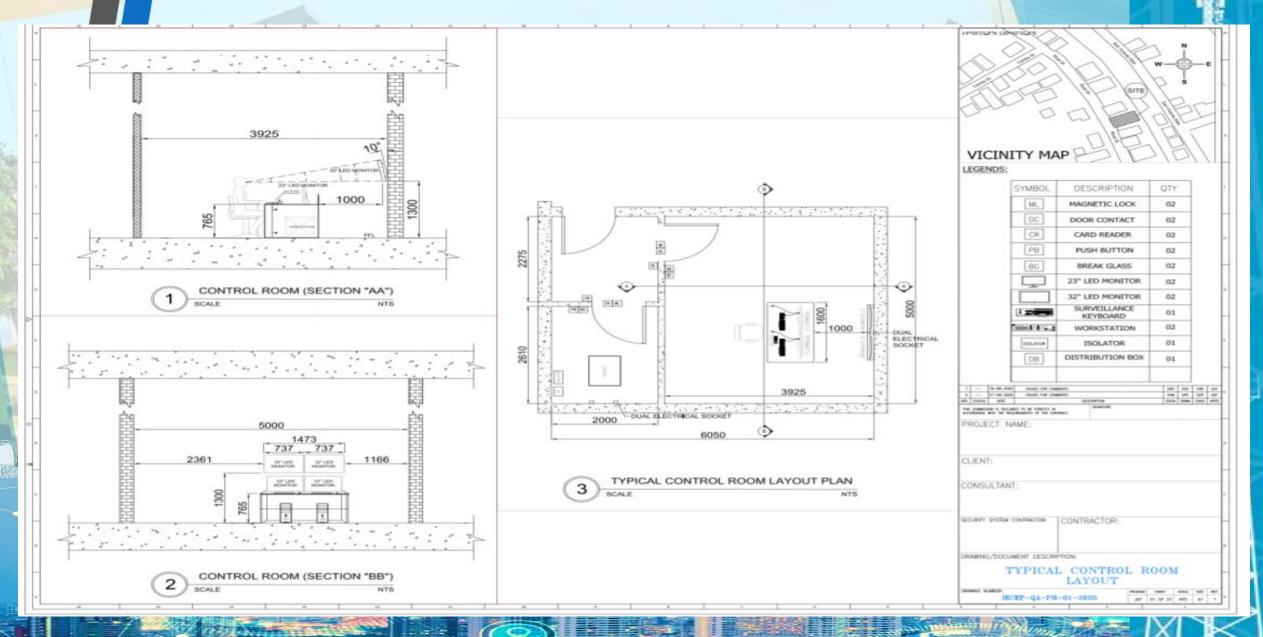
### Sample of Floor Plan (SECURITY AND ALARM SYSTEM)



### Sample of Floor Plan (SECURITY AND ALARM SYSTEM)



### Sample of Floor Plan (SECURITY AND ALARM SYSTEM)



### Sample of Floor Plan (TELECOMMUNICATION SYSTEM)

