

**PHILIPPINE BIDDING DOCUMENTS**

**Procurement of  
INFRASTRUCTURE  
PROJECTS**

Government of the Republic of the Philippines

**PROPOSED CONSTRUCTION AND INSTALLATION OF  
STREETLIGHT POSTS AT BARANGAY PAYATAS**

**Project number:  
21-00230**

**Sixth Edition  
July 2020**

# Preface

These Philippine Bidding Documents (PBDs) for the procurement of Infrastructure Projects (hereinafter referred to also as the “Works”) through Competitive Bidding have been prepared by the Government of the Philippines for use by all branches, agencies, departments, bureaus, offices, or instrumentalities of the government, including government-owned and/or -controlled corporations, government financial institutions, state universities and colleges, local government units, and autonomous regional government. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

The PBDs are intended as a model for admeasurements (unit prices or unit rates in a bill of quantities) types of contract, which are the most common in Works contracting.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract; (ii) the eligibility requirements of Bidders; (iii) the expected contract duration; and (iv) the obligations, duties, and/or functions of the winning Bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Works to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular Project.
- b. Specific details, such as the “*name of the Procuring Entity*” and “*address for bid submission*,” should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.
- d. The cover should be modified as required to identify the Bidding Documents as to the names of the Project, Contract, and Procuring Entity, in addition to date of issue.

- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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# *Glossary of Terms, Abbreviations, and Acronyms*

**ABC** – Approved Budget for the Contract.

**ARCC** – Allowable Range of Contract Cost.

**BAC** – Bids and Awards Committee.

**Bid** – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

**Bidder** – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

**Bidding Documents** – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

**BIR** – Bureau of Internal Revenue.

**BSP** – Bangko Sentral ng Pilipinas.

**CDA** – Cooperative Development Authority.

**Consulting Services** – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

**Contract** – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

**Contractor** – is a natural or juridical entity whose proposal was accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded. Contractor as used in these Bidding Documents may likewise refer to a supplier, distributor, manufacturer, or consultant.

**CPI** – Consumer Price Index.

**DOLE** – Department of Labor and Employment.

**DTI** – Department of Trade and Industry.

**Foreign-funded Procurement or Foreign-Assisted Project** – Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

**GFI** – Government Financial Institution.

**GOCC** – Government-owned and/or –controlled corporation.

**Goods** – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

**GOP** – Government of the Philippines.

**Infrastructure Projects** – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

**LGUs** – Local Government Units.

**NFCC** – Net Financial Contracting Capacity.

**NGA** – National Government Agency.

**PCAB** – Philippine Contractors Accreditation Board.

**PhilGEPS** - Philippine Government Electronic Procurement System.

**Procurement Project** – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

**PSA** – Philippine Statistics Authority.

**SEC** – Securities and Exchange Commission.

**SLCC** – Single Largest Completed Contract.

**UN** – United Nations.



## ***Section I. Invitation to Bid***

### **Notes on the Invitation to Bid**

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria.

The IB should be incorporated into the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.



**REPUBLIC OF THE PHILIPPINES**  
**QUEZON CITY GOVERNMENT**  
**BIDS AND AWARDS COMMITTEE FOR INFRASTRUCTURE &**  
**CONSULTANCY**



2<sup>nd</sup> floor, Finance Building, Procurement Department, Quezon City Hall Complex, Elliptical Road, Quezon City

December 3, 2021

## Invitation to Bid

| No                                    | Project No. | Project Name   | Location              | Amount        | Durati on Cal. Days | Office                 | Source Fund                     |
|---------------------------------------|-------------|--|-----------------------|---------------|---------------------|------------------------|---------------------------------|
| <b><u>Bridge – Small B</u></b>        |             |  |                       |               |                     |                        |                                 |
| 1                                     | 21-00216    | Proposed Rehabilitation of Steel Bridge at Morning Star Street                                       | Payatas               | 2,402,736.00  | 90                  | Engineering Department | Engineering Department          |
| <b><u>Flood Control – Small B</u></b> |             |  |                       |               |                     |                        |                                 |
| 2                                     | 21-00217    | Proposed Construction of Reinforced Concrete Retaining Wall at Kaingin 1 Bungad                      | Pansol                | 4,790,032.81  | 120                 | Engineering Department | Engineering Department-SB No. 1 |
| <b><u>Parks – Small B</u></b>         |             |  |                       |               |                     |                        |                                 |
| 3                                     | 21-00218    | Proposed Improvement of Sports and Recreational Park along William Extension, Pilarville Subdivision | Tandang Sora          | 10,702,334.95 | 150                 | Parks Department       | Engineering Department-SB No. 1 |
| <b><u>Roads – Small B</u></b>         |             |  |                       |               |                     |                        |                                 |
| 4                                     | 21-00219    | Proposed Rehabilitation of Alley and Drainage of Halili Alleys                                       | Krus Na Ligas         | 1,307,187.66  | 90                  | Engineering Department | Engineering Department          |
| 5                                     | 21-00220    | Proposed Rehabilitation of Road and Drainage of Interior Armando Street                              | Bagbag                | 3,005,334.22  | 90                  | Engineering Department | Engineering Department          |
| 6                                     | 21-00221    | Proposed Rehabilitation (Surface Improvement) at Spencer and Manhattan Street                        | Immaculate Concepcion | 3,594,941.38  | 90                  | Engineering Department | Engineering Department          |
| 7                                     | 21-00222    | Proposed Rehabilitation of Drainage System at Ermin Garcia Street (Albany-15th Avenue)               | Silangan              | 4,254,217.75  | 90                  | Engineering Department | Engineering Department-SB No. 1 |
| 8                                     | 21-00223    | Proposed Rehabilitation (Surface Improvement) of Various Streets at Pook Dagohoy                     | UP Campus             | 4,720,456.27  | 35                  | Engineering Department | Engineering Department          |
| 9                                     | 21-00224    | Proposed Rehabilitation of Road and Drainage at Asprer Street  | Payatas               | 4,852,646.66  | 90                  | Engineering Department | Engineering Department          |
| 10                                    | 21-00225    | Proposed Rehabilitation of Road and Drainage at Opel Street  | Fairview              | 6,225,364.30  | 120                 | Engineering Department | Engineering Department          |

|   |          |   |                 |               |     |                        |                        |
|---|----------|---|-----------------|---------------|-----|------------------------|------------------------|
| 11  | 21-00226 | Proposed Rehabilitation of Road and Drainage at Assistant and Accounting Streets        | Bahay Toro      | 9,537,716.75  | 150 | Engineering Department | Engineering Department |
| 12  | 21-00227 | Proposed Rehabilitation of Road and Drainage at Visayas Extension and Zamboanga Streets | Payatas         | 21,230,207.33 | 180 | Engineering Department | Engineering Department |
| <b><u>Roads – Medium A</u></b>                                  |          |   |                 |               |     |                        |                        |
| 13  | 21-00228 | Proposed Rehabilitation of Road and Drainage at Peso, Yuan, Dinar and Schilling Streets | North Fairview  | 93,315,411.39 | 330 | Engineering Department | Engineering Department |
| <b><u>Buildings – Medium A (Specialty-Electrical Works)</u></b> |          |   |                 |               |     |                        |                        |
| 14  | 21-00229 | Proposed Construction and Installation of Streetlight posts at Barangay Bagong Silangan | Bagong Silangan | 54,285,074.57 | 300 | Engineering Department | OCM-20% CDF            |
| 15  | 21-00230 | Proposed Construction and Installation of Streetlight posts at Barangay Payatas         | Payatas         | 57,409,659.07 | 300 | Engineering Department | OCM-20% CDF            |

1. The **QUEZON CITY LOCAL GOVERNMENT**, through *funding source of various years* intends to apply the sum stated above being the Approved Budget for the Contract (ABC) to payments under the contract *for the above stated Projects*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The **QUEZON CITY LOCAL GOVERNMENT** now invites bids for the above Procurement Project. Completion of the Works is required *as stated above*. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information from **QUEZON CITY LOCAL GOVERNMENT – BAC Secretariat** and inspect the Bidding Documents at the address given below *weekdays from 8:00 am. – 5:00 p.m.*
5. A complete set of Bidding Documents may be acquired by interested bidders on **6 December 2021 (Monday)** from given address and website/s below *and upon payment of a non-refundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees *presented in person*.

**STANDARD RATES:**

| Approved Budget for the Contract       | Maximum Cost of Bidding Documents<br>(in Philippine Peso) |
|--|---|
| More than 1 Million up to 5 Million    | 5,000.00  |
| More than 5 Million up to 10 Million   | 10,000.00   |
| More than 10 Million up to 50 Million  | 25,000.00   |
| More than 50 Million up to 500 Million | 50,000.00   |
| More than 500 Million                  | 75,000.00   |

The following are the requirements for purchase of Bidding Documents;

1. PhilGEPS Registration Certificate (Platinum – 3 Pages)
2. Document Request List (DRL)
3. Authorization to purchase bidding documents
  - 3.1 Secretary's Certificate (for corporation)
  - 3.2 Special Power of Attorney (for sole proprietorship)
4. Notarized Joint Venture Agreement (if applicable)
5. Letter of Intent

It must be duly received by the BAC Secretariat at 2<sup>nd</sup> Floor, Procurement Department, Finance Building, Quezon City Hall Compound on or before **December 13, 2021 - 5:00PM.**

6. The **QC- BAC- INFRASTRUCTURE & CONSULTANCY** will hold a Pre-Bid Conference<sup>1</sup> on **December 14, 2021 at 10:00 AM at 2<sup>nd</sup> Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** or we encourage the prospective bidders to join through our **Virtual Conference (ZOOM APP)** which shall be open to prospective bidders.

**Virtual Conference (ZOOM APP)**

**Meeting ID: 854 9489 0133**

**Password: 273320**

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before **December 28, 2021 – 9:00AM.** Late bids shall not be accepted.
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB Clause 16.**
9. Bid opening shall be on **December 28, 2021 - 10:00 AM at 2<sup>nd</sup> Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

**Virtual Conference (ZOOM APP)**

**Meeting ID: 810 3646 5257**

**Password: 201522**

10. The **Quezon City Local Government** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:

**ATTY. DOMINIC B. GARCIA**

OIC, Procurement Department

2<sup>nd</sup> Floor, Procurement Department,

Finance Building, Quezon City Hall Compound

Elliptical Road, Barangay Central Diliman, Quezon City.

Tel. No. (02)8988-4242 loc. 8506/8710

Email Add: [baconfra.procurement@quezoncity.gov.ph](mailto:baconfra.procurement@quezoncity.gov.ph)

Website: [www.quezoncity.gov.ph](http://www.quezoncity.gov.ph)



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<sup>1</sup> May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a pre-bid conference.

12. You may visit the following websites:

For downloading of Bidding Documents: <https://quezoncity.gov.ph/public-notices/procurement/>

By:

  
**ATTY. MARK DALE DIAMOND P. PERRAL**  
Chairman, BAC-Infra and Consultancy 

## ***Section II. Instructions to Bidders***

### **Notes on the Instructions to Bidders**

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contract.

## 1. Scope of Bid

The Procuring Entity, **Quezon City Government** invites Bids for the **PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS**, with Project Identification Number **21-00230**.

*[Note: The Project Identification Number is assigned by the Procuring Entity based on its own coding scheme and is not the same as the PhilGEPS reference number, which is generated after the posting of the bid opportunity on the PhilGEPS website.]*

The Procurement Project (referred to herein as “Project”) is for the construction of Works, as described in Section VI (Specifications).

## 2. Funding Information

2.1. The GOP through the source of funding as indicated below for **2021** in the amount of **Fifty-Seven Million Four Hundred Nine Thousand Six Hundred Fifty-Nine Pesos & 07/100 Cts. (P 57,409,659.07)**.

2.2. The source of funding is:

a. LGUs, the Annual or Supplemental Budget, as approved by the Sanggunian.

## 3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manual and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or invitation to bid by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

## 4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and

obstructive practices defined under Annex “P” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

## 5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA’s CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.  
  
A contract is considered to be “similar” to the contract to be bid if it has the major categories of work stated in the **BDS**.
- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

## 6. Origin of Associated Goods

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

## 7. Subcontracts

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that:

- a. **Subcontracting is not allowed.**

- 7.1. *[If Procuring Entity has determined that subcontracting is allowed during the bidding , state:]* The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criterial stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.
- 7.2. *[If subcontracting is allowed during the contract implementation stage, state:]* The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary



requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.

- 7.3. Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

## **8. Pre-Bid Conference**

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address on **December 14, 2021, 10:00 A.M. at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or we encourage the prospective bidders to join through our **Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320**

## **9. Clarification and Amendment of Bidding Documents**

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

## **10. Documents Comprising the Bid: Eligibility and Technical Components**

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their

complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.

- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

## **11. Documents Comprising the Bid: Financial Component**

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

## **12. Alternative Bids**

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

## **13. Bid Prices**

All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.

## **14. Bid and Payment Currencies**

- 14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.
- 14.2. *Payment of the contract price shall be made in:*
  - a. Philippine Pesos.

## **15. Bid Security**

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 15.2. The Bid and bid security **in no case shall exceed One Hundred Twenty (120) calendar days from the date of opening of bids, unless duly extended by the bidder upon the request of the Head of the Procuring Entity (HoPE) of the Quezon City Local Government**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

## **16. Sealing and Marking of Bids**

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission to the given website or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

## **17. Deadline for Submission of Bids**

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 5 of the **IB**.

## **18. Opening and Preliminary Examination of Bids**

- 18.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

- 18.2. The preliminary examination of Bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

## **19. Detailed Evaluation and Comparison of Bids**

- 19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC

shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.

- 19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 15 shall be submitted for each contract (lot) separately.
- 19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

## **20. Post Qualification**

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS), and other appropriate licenses and permits required by law and stated in the **BDS**.

## **21. Signing of the Contract**

The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

## ***Section III. Bid Data Sheet***

### **Notes on the Bid Data Sheet (BDS)**

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail, information, or requirements included in the ITB found in Section II, which are specific to each procurement.

This Section is intended to assist the Procuring Entity in providing the specific information in relation to corresponding clauses in the ITB and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bids. In preparing the BDS, the following aspects should be checked:

- a. Information that specifies and complements provisions of the ITB must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of the ITB as necessitated by the circumstances of the specific procurement, must also be incorporated.

# Bid Data Sheet

| ITB Clause  |   |                    |                     |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
|-------------|---|--------------------|---------------------|--------------------|---------------------|---|-----------------|-------------|---------|-----------|------------------|---------|-----------|-------------|--|-----------|---------|---|----------------|---------|---------|---|---------|---------|---------|---|----------------|---------|---------|---|--------|---------|---------|----|----------------|--------|----------|
| 5.2         | For this purpose, similar contracts shall refer to contracts which have the same major categories of work.  |                    |                     |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| 7.1         | <b>Subcontracting is not allowed.</b>   |                    |                     |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| 10.3        | <p><i>No additional contractor license or permit is required</i></p> <p><b><i>In addition, eligible bidders shall qualify or comply with the following:</i></b></p> <p>1. Bidders with valid Philippine Contractors Accreditation Board (PCAB)</p> <p style="padding-left: 40px;">Type</p> <p style="text-align: center;"><b>Buildings – Medium A (Specialty – Electrical Works)</b></p>  |                    |                     |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| 10.4        | <p>The minimum work experience requirements for key personnel are the following:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: center;">Qty.</th> <th style="text-align: center;">Key Personnel</th> <th style="text-align: center;">General Experience</th> <th style="text-align: center;">Relevant Experience</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Project Manager</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Project Engineer</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">1</td> <td>DPWH duly accredited<br/>Materials Engineer</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Safety Officer</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Foreman</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Skilled Worker</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Driver</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">10</td> <td>Laborer/Helper</td> <td style="text-align: center;">1 year</td> <td style="text-align: center;">3 months</td> </tr> </tbody> </table> <p><b><i>In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing personnel shall perform work exclusively for the project until its completion. Please see attached bid forms.</i></b></p> | Qty.               | Key Personnel       | General Experience | Relevant Experience | 1 | Project Manager | 3 years     | 3 years | 1         | Project Engineer | 3 years | 3 years   | 1           | DPWH duly accredited<br>Materials Engineer | 3 years   | 3 years | 1 | Safety Officer | 3 years | 3 years | 1 | Foreman | 3 years | 3 years | 5 | Skilled Worker | 3 years | 3 years | 2 | Driver | 3 years | 3 years | 10 | Laborer/Helper | 1 year | 3 months |
| Qty.        | Key Personnel   | General Experience | Relevant Experience |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| 1           | Project Manager   | 3 years            | 3 years             |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| 1           | Project Engineer  | 3 years            | 3 years             |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| 1           | DPWH duly accredited<br>Materials Engineer  | 3 years            | 3 years             |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| 1           | Safety Officer  | 3 years            | 3 years             |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| 1           | Foreman   | 3 years            | 3 years             |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| 5           | Skilled Worker  | 3 years            | 3 years             |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| 2           | Driver  | 3 years            | 3 years             |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| 10          | Laborer/Helper  | 1 year             | 3 months            |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| 10.5        | <p>The minimum major equipment requirements are the following:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Equipment</th> <th style="text-align: center;">Capacity</th> <th style="text-align: center;">Number of Units</th> </tr> </thead> <tbody> <tr> <td>Elf Truck</td> <td></td> <td style="text-align: center;">1</td> </tr> <tr> <td>Scaffolding</td> <td></td> <td style="text-align: center;">as needed</td> </tr> <tr> <td>Power Tools</td> <td></td> <td style="text-align: center;">as needed</td> </tr> <tr> <td>Minor Tools</td> <td></td> <td style="text-align: center;">as needed</td> </tr> </tbody> </table>   | Equipment          | Capacity            | Number of Units    | Elf Truck           |   | 1               | Scaffolding |         | as needed | Power Tools      |         | as needed | Minor Tools |  | as needed |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| Equipment   | Capacity  | Number of Units    |                     |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| Elf Truck   |   | 1                  |                     |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| Scaffolding |   | as needed          |                     |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| Power Tools |   | as needed          |                     |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |
| Minor Tools |   | as needed          |                     |                    |                     |   |                 |             |         |           |                  |         |           |             |  |           |         |   |                |         |         |   |         |         |         |   |                |         |         |   |        |         |         |    |                |        |          |

|      |  |
|------|--|
|      | <i>In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing equipment shall be used exclusively for the project until its completion. Please see attached bid forms.</i>   |
| 12   | <i>[Insert Value Engineering clause if allowed.]</i>   |
| 15.1 | The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts: <ul style="list-style-type: none"> <li>a) The amount of not less than Php 1,148,193.18 or equivalent to two percent (2%) of ABC if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or</li> <li>b) The amount of not less than Php 2,870,482.95 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.</li> </ul> |
| 19.2 | <b>Partial bid is not allowed.</b> The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.   |
| 20   | No additional requirement.   |
| 21   | <b>Additional Contract Documents relevant to the Project as required:</b> <ol style="list-style-type: none"> <li><b>1. Construction Schedule and S-curve,</b></li> <li><b>2. Manpower Schedule,</b></li> <li><b>3. Construction Methods,</b></li> <li><b>4. Equipment Utilization Schedule,</b></li> <li><b>5. PERT/CPM or other acceptable tools of project scheduling, shall be included in the submission of Technical Proposal.</b></li> </ol>   |

## ***Section IV. General Conditions of Contract***

### **Notes on the General Conditions of Contract**

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Contractor, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special Conditions of Contract.



## 1. **Scope of Contract**

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

## 2. **Sectional Completion of Works**

If sectional completion is specified in the **Special Conditions of Contract (SCC)**, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

## 3. **Possession of Site**

3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the **SCC**, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

3.2 If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

## 4. **The Contractor's Obligations**

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB** Clause 10.3 and specified in the **BDS**, to carry out the supervision of the Works.

The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

## 5. **Performance Security**

- 5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.
- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

## **6. Site Investigation Reports**

The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the SCC supplemented by any information obtained by the Contractor.

## **7. Warranty**

- 7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.
- 7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the SCC.

## **8. Liability of the Contractor**

Subject to additional provisions, if any, set forth in the SCC, the Contractor's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Contractor is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

## **9. Termination for Other Causes**

Contract termination shall be initiated in case it is determined *prima facie* by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in ITB Clause 4.

## **10. Dayworks**

Subject to the guidelines on Variation Order in Annex “E” of the 2016 revised IRR of RA No. 9184, and if applicable as indicated in the **SCC**, the Dayworks rates in the Contractor’s Bid shall be used for small additional amounts of work only when the Procuring Entity’s Representative has given written instructions in advance for additional work to be paid for in that way.

## **11. Program of Work**

11.1. The Contractor shall submit to the Procuring Entity’s Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the **SCC**.

11.2. The Contractor shall submit to the Procuring Entity’s Representative for approval an updated Program of Work at intervals no longer than the period stated in the **SCC**. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity’s Representative may withhold the amount stated in the **SCC** from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

## **12. Instructions, Inspections and Audits**

The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor’s accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.

## **13. Advance Payment**

The Procuring Entity shall, upon a written request of the Contractor which shall be submitted as a Contract document, make an advance payment to the Contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum, or at the most two installments according to a schedule specified in the **SCC**, subject to the requirements in Annex “E” of the 2016 revised IRR of RA No. 9184.

## **14. Progress Payments**

The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity’s Representative/Project Engineer. Except as otherwise stipulated in the **SCC**, materials and equipment delivered on the site but not completely put in place shall not be included for payment.

## **15. Operating and Maintenance Manuals**

15.1. If required, the Contractor will provide “as built” Drawings and/or operating and maintenance manuals as specified in the **SCC**.

- 15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the **SCC** from payments due to the Contractor.

## ***Section V. Special Conditions of Contract***

### **Notes on the Special Conditions of Contract**

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Works procured. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.

# Special Conditions of Contract

| GCC Clause |   |
|------------|---|
| 2          | Completion of work shall be within 300 calendar days.   |
| 4.1        | The Procuring Entity shall give possession of all parts of the Site to the Contractor upon receipt of the Notice to Proceed.  |
| 6          | The site investigation reports are: <i>[list here the required site investigation reports.]</i>   |
| 7.2        | <p><i>[Select one, delete the other.]</i></p> <p><i>[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:]</i> Fifteen (15) years.</p> <p><i>[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:]</i> Five (5) years.</p> <p><i>[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:]</i> Two (2) years.</p> |
| 10         | Dayworks are applicable at the rate shown in the Contractor’s original Bid.   |
| 13         | The amount of the advance payment is no more that fifteen percent (15%) of the Contract Price subject to approval by the HOPE and compliance with the conditions under RA 9184 and its IRR.   |
| 14         | No further instructions.  |
| 15.1       | <p>The date by which operating and maintenance manuals are required is <i>thirty (30) days</i></p> <p>The date by which “as built” drawings are required as part of final payment</p>   |
| 15.2       | The amount to be withheld for failing to produce “as built” drawings and/or operating and maintenance manuals by the date required is ten (10%) percent of the contract price.  |

## *Section VI. Specifications*

### **Notes on Specifications**

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying or conditioning their Bids. In the context of international competitive bidding, the specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of economy, efficiency, and fairness in procurement be realized, responsiveness of Bids be ensured, and the subsequent task of bid evaluation facilitated. The specifications should require that all goods and materials to be incorporated in the Works be new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

Samples of specifications from previous similar projects are useful in this respect. The use of metric units is mandatory. Most specifications are normally written specially by the Procuring Entity or its representative to suit the Works at hand. There is no standard set of Specifications for universal application in all sectors in all regions, but there are established principles and practices, which are reflected in these PBDs.

There are considerable advantages in standardizing General Specifications for repetitive Works in recognized public sectors, such as highways, ports, railways, urban housing, irrigation, and water supply, in the same country or region where similar conditions prevail. The General Specifications should cover all classes of workmanship, materials, and equipment commonly involved in construction, although not necessarily to be used in a particular Works Contract. Deletions or addenda should then adapt the General Specifications to the particular Works.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for goods, materials, and workmanship, recognized international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that goods, materials, and workmanship that meet other authoritative standards, and which ensure substantially equal or higher quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the SCC.

#### **Sample Clause: Equivalency of Standards and Codes**

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted

subject to the Procuring Entity's Representative's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Procuring Entity's Representative at least twenty-eight (28) days prior to the date when the Contractor desires the Procuring Entity's Representative's consent. In the event the Procuring Entity's Representative determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

These notes are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final Bidding Documents.





Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**  
5<sup>TH</sup>, 6<sup>TH</sup>, 7<sup>TH</sup> Floors, QC Civic Center Building "B"  
Telephone Nos. 8988-4242 Local 8538



**PROJECT TITLE :** PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS  
**LOCATION :** BARANGAY PAYATAS, DISTRICT 2, QUEZON CITY

## TECHNICAL SPECIFICATIONS

### 1.0 SITE WORK

#### WORK INCLUDED

- 1.1 Staking out and establishment of exact location for earthworks and civil works.
- 1.2 All excavation works including all necessary shoring, bracing and drainage of storm water from the site.
- 1.3 All backfilling, filling, compaction and grading, removal of excess material from site including restoration.

### 2.0 LINES, GRADES AND BENCHMARKS

- 2.1 Stake out accurately the construction line and/or the other structures included in the contract, and establish grades therefore, after which secure approval of the Implementing Agency before any excavation work is commenced.

### 3.0 EXCAVATION

**Structural Excavations:** Excavations shall be to the depths indicated in the drawings. All structural excavations shall extend a sufficient distance from other existing structures to allow for proper erection and dismantling of forms. All excavations shall be inspected and approved before pouring any concrete. Water that accumulates in excavated areas shall be removed by pumping before fill is placed therein. The contractor shall repair/restore any damage utility lines and the like affected during excavation, if there is any.

### 4.0 FILLING AND BACKFILLING

After forms have been removed and when concrete work is hard enough to resist pressure resulting from fill, backfilling may then be done. Materials excavated may be used for backfilling. All filling shall be placed in layers not exceeding six (6) inches in thickness, each layer being thoroughly compacted and rammed by wetting, tamping, rolling.

### 5.0 CONCRETE

#### 5.1 GENERAL

- 5.1.1 Unless otherwise specified herein, concrete work shall conform to the requirements of ACI Building Code. Before concrete is placed, embedded items shall be inspected and tested.

## 5.2 MATERIALS

- 5.2.1 Cement for concrete shall conform to the requirements of specifications for Portland cement (ASTM C150).
- 5.2.2 Water used in mixing concrete shall be clean and free from other injurious amounts of oil, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.
- 5.2.3 Fine Aggregates shall consist of hard, tough, durable uncoated particles. The shape of the particles shall be generally rounded or cubicle and reasonably free from flat or elongated particles. The stipulated percentages of fines in the sand shall be obtained either by processing sand or by the production of suitable graded manufactured sand.
- 5.2.4 Coarse Aggregates shall consist of gravel. Crushed gravel or rock Or a combination of gravel and rock. Coarse aggregates shall consist of hard, tough, durable, clean and uncoated particles. The size of coarse aggregates to be used in the various parts of the Work shall be ¾".
- 5.2.5 Reinforcing bars shall conform to the requirements of ASTM Standard specifications for Billet Steel Bars for concrete reinforcement and to Specification for minimum requirements for the deformed steel bars for concrete reinforcement (A615/615M). Tensile strength and grade for all reinforcing bars such as vertical (for pedestal columns), ties, stirrups and inserts shall be as follows:
- No. 3 (3/8") 10 mm – fy = 40,000 psi (Grade 40)  
 No. 4 (1/2") 12 mm – fy = 40,000 psi (Grade 40)  
 No. 5 (5/8") 16 mm – fy = 60,000 psi (Grade 60)

Reinforcing steel bars shall be tested against the minimum yield strength specified.

## 5.3 PROPORTIONING AND MIXING

- 5.3.1 Proportioning of all materials entering into the concrete mixture of 3,000 psi concrete shall be as follows:
- | <u>Class</u> | <u>Cement</u> | <u>Sand</u> | <u>Gravel</u> |
|--------------|---------------|-------------|---------------|
| A            | 1             | 2           | 4             |
- 5.3.2 Strength of Concrete: Concrete shall have 28-day cylinder strength of 3,000 psi for footing and column/pedestal on grade. Samples shall be tested on the 7<sup>th</sup>, 21<sup>st</sup>, and 28<sup>th</sup> day since concrete pouring.
- 5.3.3 Mixing: The 3,000 psi concrete can be machine mixed on-site or also ready mixed in transit from batching plant. On-site mixing shall be within 30 minutes after the cement has been added to the aggregates.

## 5.4 FORMS

**5.4.1 General:** Forms shall be used whenever necessary to hold the wet concrete in shape until it dries & hardens and ensure the concrete away from contamination from materials coming from adjacent excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent seeping of wet concrete. Forms for exposed surfaces against which backfill is not to be placed shall be lined with a form grade plywood.

## 6.0 ELECTRICAL WORKS

### 6.1 WORK INCLUDED

**6.1.1** The work to be done under this Division comprises the furnishing of all tools, labor, equipment, fixtures and materials, unless otherwise herein specified, required to complete and leave ready for use the electrical system of the proposed Construction/Installation of Streetlights in accordance with this specification and accompanying drawings of materials and finishes.

### 6.2 TESTS

**6.2.1** The Contractor shall apply such test, replace or remedy on all defective work and adjust such system as needed or as the Implementing Agency direct.

### 6.3 MEASUREMENTS

**6.3.1** The Contractor shall consult the Implementing Agency for detailed drawings of those parts of the work not fully shown on the plans and he shall verify this on site. Any adjustment shall be submitted at once to the Implementing Agency for settlement.

### 6.4 GROUNDINGS

**6.4.1** All metallic conduits, supports, cabinets and equipment shall be properly grounded and bonded by means of copper straps. The conduits of such system shall be grounded by connecting the grounding rod.

### 6.5 WIRING METHODS

**6.5.1** For aerial wiring, secondary racks must be provided with every post to provide proper safe anchorage for its guide wire.

## 6.6 MATERIALS

6.6.1 All materials shall be new and shall conform to the standards of Precision Construction Materials Testing Center. In every case where such a standard has been established for the particular type of materials in question.

6.6.2 All materials on all systems shall comply with the following specifications unless specified and all materials not specified, shall be of the best of their respective kind.

## 6.7 WIRES

6.7.1 All wires shall be copper, soft-drawn and annealed, shall be 98% conductivity, shall be smooth and true of a cylindrical form and shall be within the actual size called for. For aerial wirings, use 14mm<sup>2</sup> ACSR neutral messengers

6.7.2 All wires and cables shall comply with the requirements of Precision Construction Materials Testing Center. The ASTM and the IPCEA as to their particular usage.

## 6.8 CONDUITS

6.8.1 The conduit system shall consist of the following:

### Rigid steel conduit:

They shall be standard sizes and weight, mild steel hot dipped galvanized with inside enamel or epoxy coating equivalent to NICH1 or any approved brand equal and acceptable to the Electrical Engineer or the Owner.

## 6.9 ELECTRIC SERVICE

6.9.1 The electric service shall be single-phase, 3 wire, 230 volts, 60 hertz. The sizes of service entrance conductor and conduit are shown on the plans.

6.9.2 The electrical contractor shall inspect the site, consult with Meralco and check the orientation of the proposed service entrance before commencing work to avoid field problems

## 6.10 LIGHTING POLE

6.11.1 Steel Pole Shaft: Octagonal tapered (no vertical joint), sand blasted prior to application of Zinc rich primer with steel plates for base plates and stiffener plates, L shape anchor bolts with nuts & washer & banner holder. 25 feet or 7.62 meters in height.

- length of 2.0 mts, single row pole arrangement, pole distance of 25 mts, and road width of 8.0 mts.
- vii. Lumen Output, not less than 8,250 lumens
  - viii. Photometric Distribution IES Type I Short.

The LED luminaire should be Smart Streetlight – ready (with NEMA socket for 7 Terminals including socket cover, with dimmable driver), which shall be subject for Field Testing.

### 3.9 LIGHTING POLE

Steel Pole Shaft: Octagonal tapered (no vertical joint), sand blasted prior to application of Zinc rich primer with steel plates for base plates and stiffener plates, L shape anchor bolts with nuts & washer & banner holder. 25 feet or 7.62 meters in height.

### 3.10 LIGHTING CONTROL PANEL

Lighting Panel (NEMA 3R Enclosure)

Main Circuit Breaker :  
 50AT, 2P, 220V, 60Hz, Bolt-on  
 Magnetic Contactor :  
 40AT, 220V, 60Hz  
 Photo Control Switch: 10AT  
 By-pass switch double pole/single  
 Throw Internal Mounting in NEMA 3R  
 Enclosure:  
 Branches: 2-30AT, 2P Bolt-on  
 Cut-off fuse w/ case 32A  
 Selector switch  
 Terminal Block

  
**RALPH GREGOR M. MANALO**  
 Planning and Programming Division

  
**JOCELYN A. NAONG**  
 Planning and Programming Division

## ***Section VII. Drawings***

*[Insert here a list of Drawings. The actual Drawings, including site plans, should be attached to this section, or annexed in a separate folder.]*

**GENERAL**

- CONTRACTOR NOTES AND SPECIAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SPECIFIED BY THE PROJECT MANUAL, DETAILS AND SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE ACCURACY AND PLACEMENT OF ALL DIMENSIONS FOR ALL WORK BEFORE PROCEEDING.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORK IS BEGUN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORK IS BEGUN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORK IS BEGUN.
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- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN NECESSARY PERMITS AND APPROVALS OF THE STRUCTURE FOR ALL WORK TO BE PERFORMED ON OR NEAR THEREOF.
- IN CASE OF DISCREPANCY ARISING FROM THE INFORMATION PROVIDED BY THE CONTRACTOR, THE CONTRACTOR SHALL BE HELD RESPONSIBLE.

**CONCRETE & REINFORCEMENT**

- ALL CONCRETE SHALL BE PLACED AND FINISHED WITHIN THE SPECIFIED TIME FRAME. THE CONTRACTOR SHALL VERIFY THE STRENGTH OF THE CONCRETE AT THE TIME OF TESTING.
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  - ALL CONCRETE SHALL BE PLACED AND FINISHED WITHIN THE SPECIFIED TIME FRAME. THE CONTRACTOR SHALL VERIFY THE STRENGTH OF THE CONCRETE AT THE TIME OF TESTING.
- | LOCATION                          | STRENGTH            | AGE (DAYS) | TEST METHOD |
|-----------------------------------|---------------------|------------|-------------|
| 1. SUB-GRADING                    | 100 PSI (7 MPa)     | 7          | ASTM C1064  |
| 2. SLAB ON GRADE                  | 100 PSI (7 MPa)     | 7          | ASTM C1064  |
| 3. BEAMS, COLUMNS, SUPPORTED SLAB | 4000 PSI (27.6 MPa) | 28         | ASTM C1064  |
| 4. FOUNDATION                     | 4000 PSI (27.6 MPa) | 28         | ASTM C1064  |

- ALL REINFORCEMENT SHALL BE PLACED AND FINISHED WITHIN THE SPECIFIED TIME FRAME. THE CONTRACTOR SHALL VERIFY THE STRENGTH OF THE REINFORCEMENT AT THE TIME OF TESTING.
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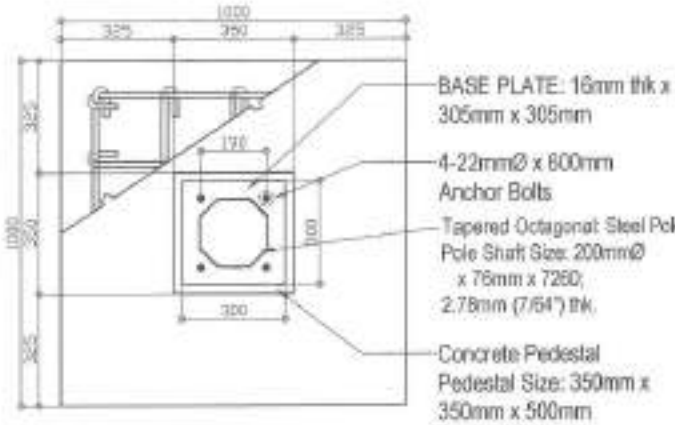
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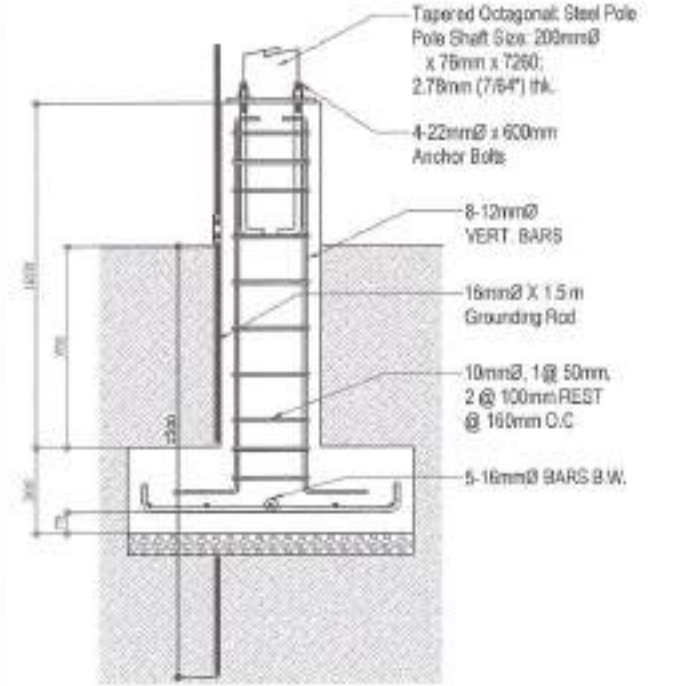
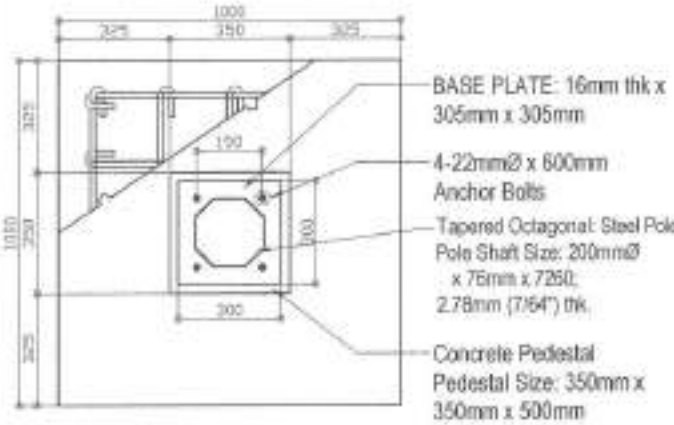
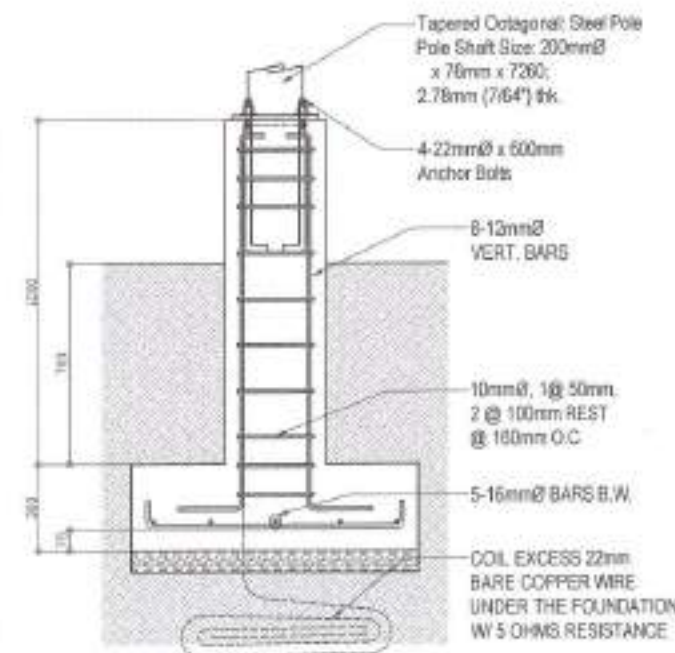
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PLAN NTS



**1 GENERAL NOTES**

Republic of the Philippines  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:  
**PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS**

LOCATION:  
BARANGAY PAYATAS, DISTRICT 2, QUEZON CITY

DESIGNED BY:  
ENGR. LEO S. DEL ROSARIO  
HEAD, PLANNING & PROGRAMMING DIVISION

CHECKED BY:  
ENGR. SARAH R. VERZOSA, JR.  
DC, CIVIL ENGINEERING DIVISION

APPROVED BY:  
HON. RA. JOSEFINA G. BELMONTE  
CITY ENGINEER

PROJECT NO.  
ST-01  
0153

**2 COLUMN FOOTING DETAILS**

SCALE: NTS

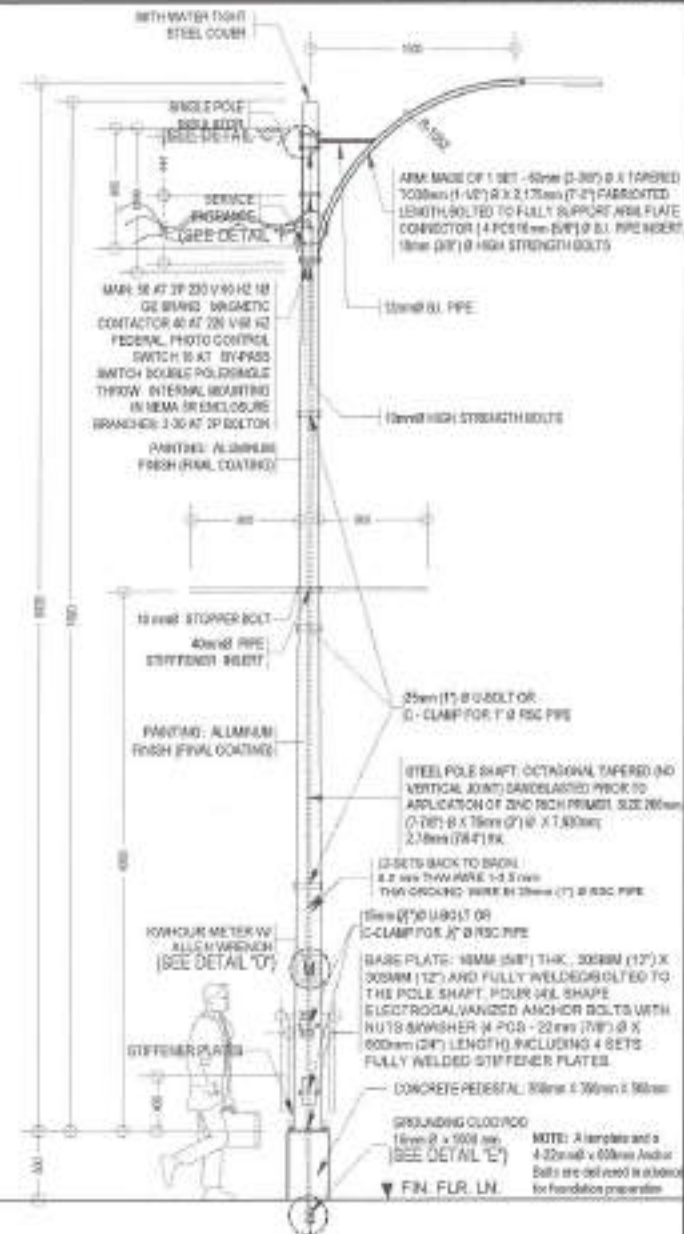
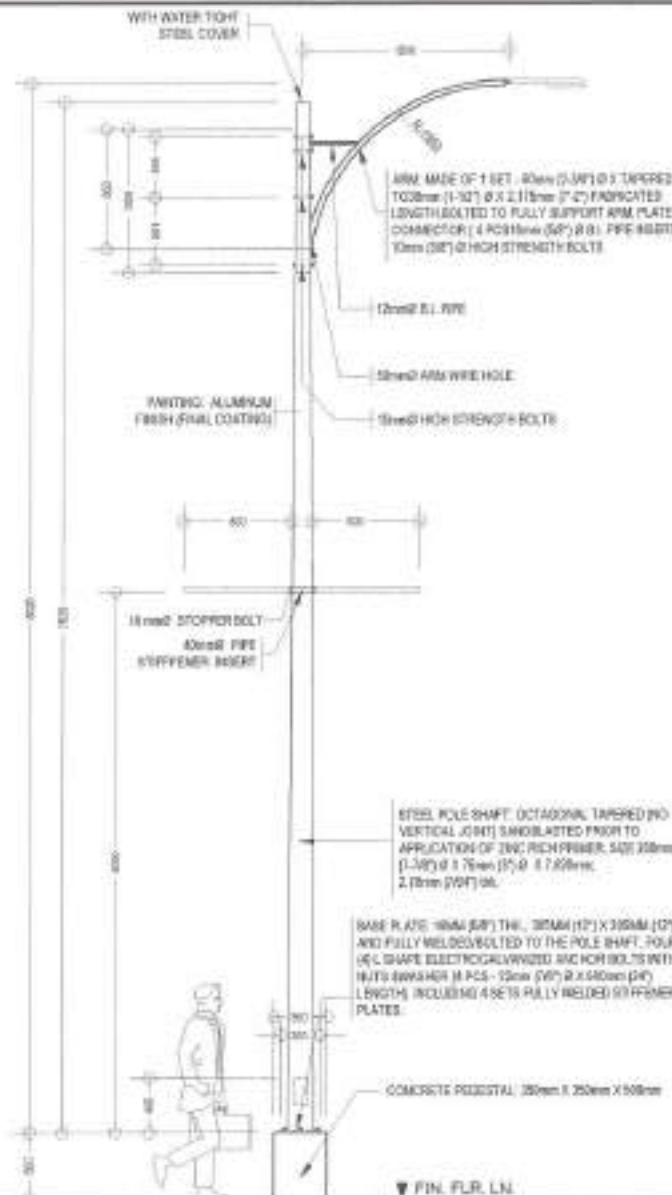
**3 GROUND CLOD ROD DETAILS**

SCALE: NTS





- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE COMPANIES, THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEERS.
- THE SERVICE ENTRANCE SHALL BE 230 VOLTS, SINGLE PHASE, 2-WIRES, 60 Hz IN RIGID STEEL CONDUIT (RSC).
- THE MAIN AND BRANCH CIRCUIT OVER CURRENT PROTECTION SHALL BE OF MOLDED CASE CIRCUIT BREAKER TYPR "GE", "WESTINGHOUSE", OR APPROVED EQUAL ENCLOSED IN A METAL CABINET.
- UNLESS SPECIFIED IN THE PLAN MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 3.5mm (14 AWG) AND 20mm (3/4") RESPECTIVELY. ALL WIRES SHALL BE RATED 600 VOLTS WITH THHN INSULATION.
- ALL SERVICE ENTRANCE EQUIPMENT, SWITCHES, PANELBOARDS, LIGHTING FIXTURES AND NON-CURRENT CARRYING METAL PARTS SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.
- CONVENIENCE OUTLET AND LIGHTING SWITCHES SHALL BE RATED AT 15A, 240V AND 10A, 240V RESPECTIVELY AS MANUFACTURED BY "NATIONAL" OR APPROVED EQUAL.
- ALL MOUNTING HEIGHTS OF WIRING DEVICES SHALL BE AS FOLLOWS:
  - LIGHTING SWITCHES - 1.40m ABOVE FLOOR FINISH
  - CONVENIENCE OUTLETS - 0.30m ABOVE FLOOR FINISH OR AS REQUIRED
  - PANEL BOARD & CABINETS - 1.40m ABOVE FLOOR FINISH @ CENTER
  - TELEPHONE OUTLETS - 0.30m ABOVE FLOOR FINISH OR AS REQUIRED
  - CONVENIENCE OUTLETS @ COUNTER - 0.15m ABOVE COUNTER
  - BRACKET LIGHT - 1.80m MOUNTING HEIGHT
- ALL BRANCHES AND CIRCUIT SHALL NOT BE LOADED MORE THAN 80% OF RATED CAPACITY.



## 1 GENERAL NOTES

## 2 TYPICAL ELEVATION OF ORDINARY STREET LIGHT

SCALE: NTS.

## 3 TYPICAL ELEVATION OF SERVICE ENTRANCE

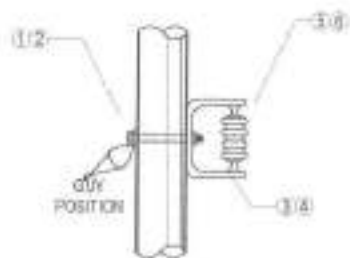
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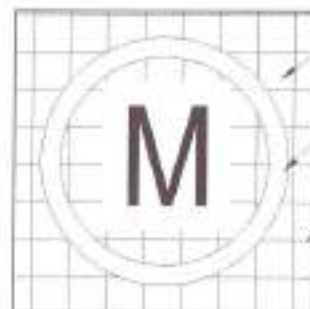
Republika ng Pilipinas  
Lungsod ng Cebu  
CTEY ENGINEERING DEPARTMENT

|   |                |   |   |   |  |            |
|---|----------------|---|---|---|--|------------|
| PROJECT TITLE:  | DRAWN BY:      | SUBMITTED BY:   | RECOMMENDERS APPROVAL:  | APPROVED BY:                                  | SHEET CONTENT:   | SHEET NO.: |
| PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE: 12-14-21 |   |   |   | GENERAL NOTES<br>TYPICAL ELEVATION OF ORDINARY STREET LIGHT<br>TYPICAL ELEVATION OF SERVICE ENTRANCE | EL-01      |
| LOCATION:<br>BARANGAY PAYATAS, DISTRICT 2, CEBU CITY                            | CHECKED BY:    | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROJECT MANAGEMENT | ENGR. ISMAEL H. VERZOSA, JR.<br>C.E., CITY ENGINEERING DEPARTMENT | HON. MA. JOSEFINA G. BELMONTÉ<br>CTEY MANAGER |  | 02/53      |
| REVISION NO.:   |                |   |   |   |  |            |



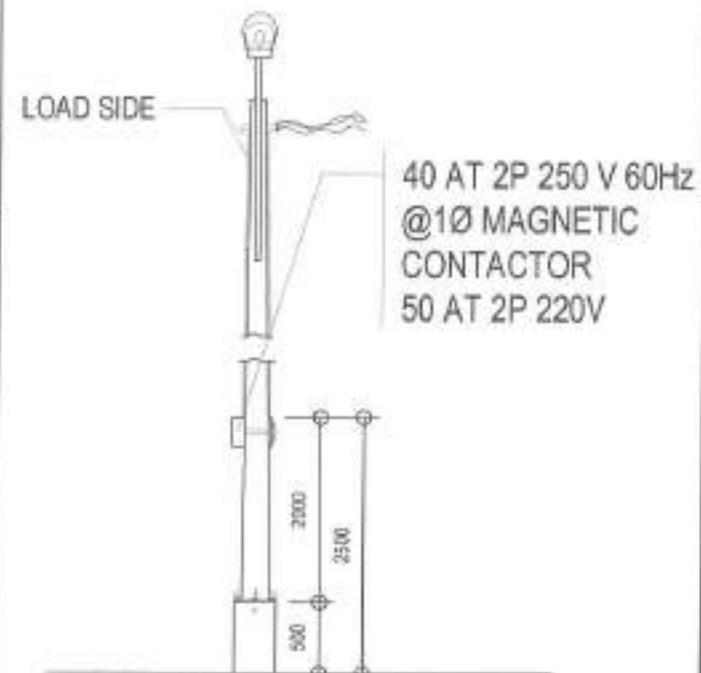
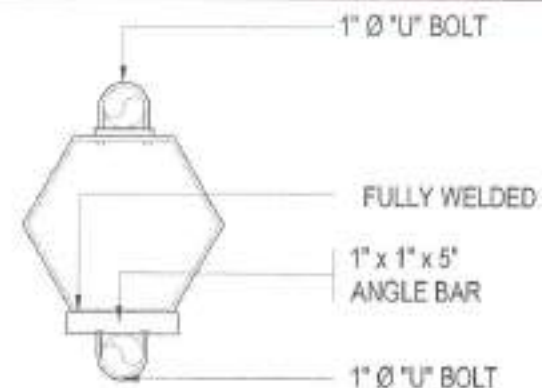


| ITEM | DESCRIPTION              | QNTY. |
|------|--------------------------|-------|
| 1    | MACHINE BOLT, 160 x 350  | 1     |
| 2    | S.O. WASHER FOR 160 BOLT | 2     |
| 3    | SECONDARY RACK, 1- SPOOL | 1     |
| 4    | SPOOL INSULATOR, WHITE   | 1     |
| 5    | TI WIRE FOR ALUMINUM     | 1     |
| 6    | FLAT ALUMINUM ARMOR      | 1     |



SQUARE  
BAR ( $\frac{1}{2}$ " x  $\frac{1}{2}$ ")  
@ 0.05m O.C.  
1" Ø HUB  
STEEL PLATE  
 $\frac{1}{8}$ " THK.

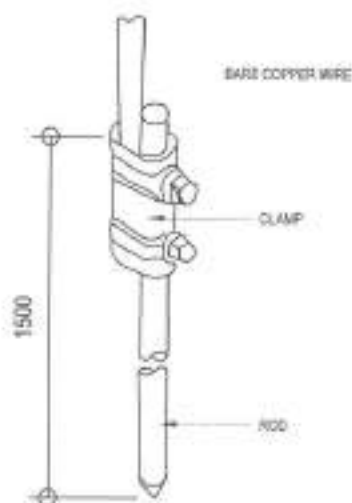
KWHOUR METER W/  
CAGE (DETAIL "D")



1 SINGLE POLE PORCELAIN  
INSULATOR WITH RACK (DETAIL "C")

3 KWHOUR METER WITH  
CAGE (DETAIL "D")

SCALE NTS.



2 ROD AND CLAMP  
DETAILS (DETAIL "E")

SCALE NTS.

4 TYPICAL SERVICE  
ENTRANCE (DETAIL "F")

SCALE NTS.

5 SERVICE ENTRANCE  
CONDUIT IN U-BOLT

SCALE NTS.



Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:  
PROPOSED CONSTRUCTION AND  
INSTALLATION OF STREETLIGHT  
POSTS AT BARANGAY PAYATAS

LOCATION:  
BARANGAY PAYATAS, DISTRICT 2, QUEZON CITY

DRAWN BY:  
DATE: 10/14/21  
CHECKED BY: J.S.A.  
REVISION NO.:

SUBMITTED BY:  
ENGR. LEO S. DEL ROSARIO  
HEAD, PLANNING & PROGRAMS DIVISION

RECOMMENDED APPROVAL:  
ENGR. ASAPH R. VERZOSA, JR.  
D.C. (PLANNING & PROGRAMS DIVISION)

APPROVED BY:  
HON. MA. JOSEFINA G. BELMONTÉ  
CITY MGR

SHEET CONTENT:  
SINGLE POLE PORCELAIN  
INSULATOR WITH RACK  
ROD AND CLAMP DETAILS  
KWHOUR METER  
WITH GAGE  
TYPICAL SERVICE  
ENTRANCE  
SERVICE ENTRANCE  
CONDUIT IN U-BOLT

SHEET NO.  
EL-02  
03/53

| SERVICE ENTRANCE 1   |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CKT NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 8 UNITS | 675 | 220 | 3.07 | 30A | USE 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 8 UNITS | 600 | 220 | 2.73 | 30A | USE 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 5.80 |     |  |
| IT = 5.80 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50AT, 220V, 10.00kA C.B.  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 2   |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CKT NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 8 UNITS | 600 | 220 | 2.73 | 30A | USE 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 8 UNITS | 600 | 220 | 2.73 | 30A | USE 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 5.46 |     |  |
| IT = 5.46 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50AT, 220V, 10.00kA C.B.  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 3   |                                   |     |     |      |     |  |
|--|-----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                   |     |     |      |     |  |
| CKT NO.  | LOAD DESCRIPTION                  | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 12 UNITS | 600 | 220 | 2.73 | 30A | USE 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 4 UNITS  | 300 | 220 | 1.36 | 30A | USE 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                   |     |     | 4.10 |     |  |
| IT = 4.10 AMPS   |                                   |     |     |      |     |  |
| MAIN FEEDER:   |                                   |     |     |      |     |  |
| USE: 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                   |     |     |      |     |  |
| MAIN BREAKER:  |                                   |     |     |      |     |  |
| USE: 50AT, 220V, 10.00kA C.B.  |                                   |     |     |      |     |  |

| SERVICE ENTRANCE 4   |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CKT NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 8 UNITS | 675 | 220 | 3.07 | 30A | USE 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 4 UNITS | 300 | 220 | 1.36 | 30A | USE 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 4.43 |     |  |
| IT = 4.43 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50AT, 220V, 10.00kA C.B.  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 5   |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CKT NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 8 UNITS | 600 | 220 | 2.73 | 30A | USE 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 8 UNITS | 600 | 220 | 2.73 | 30A | USE 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 5.46 |     |  |
| IT = 5.46 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50AT, 220V, 10.00kA C.B.  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 6   |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CKT NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 8 UNITS | 600 | 220 | 2.73 | 30A | USE 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 8 UNITS | 600 | 220 | 2.73 | 30A | USE 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 5.46 |     |  |
| IT = 5.46 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50AT, 220V, 10.00kA C.B.  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 7   |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CKT NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 8 UNITS | 675 | 220 | 3.07 | 30A | USE 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 5 UNITS | 600 | 220 | 2.73 | 30A | USE 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 5.80 |     |  |
| IT = 5.80 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50AT, 220V, 10.00kA C.B.  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 8   |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CKT NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 8 UNITS | 675 | 220 | 3.07 | 30A | USE 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 3.07 |     |  |
| IT = 3.07 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.0mm <sup>2</sup> THHN WIRE & 1-8.0mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50AT, 220V, 10.00kA C.B.  |                                  |     |     |      |     |  |

1 LOAD SCHEDULE



Republic of the Philippines  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

|  |  |   |  |                                    |   |               |
|--|--|---|--|------------------------------------|---|---------------|
| PROJECT TITLE:<br><b>PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS</b> | DRAWN BY:<br><i>[Signature]</i>                                  | SUBMITTED BY:<br><i>[Signature]</i>                             | RECOMMENDING OFFICIAL:<br><i>[Signature]</i> | APPROVED BY:<br><i>[Signature]</i> | DATE:<br>CHECKED BY: <i>[Signature]</i> | REVISION NO.: |
| LOCATION:<br>RDYF, PAYATAS, DISTRICT 3, QUEZON CITY  | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING AND PROGRAMS DIVISION | ENGR. HANS RUP VERZOSA, JR.<br>D.C. CITY ENGINEERING DEPARTMENT | HON. MA. JOSEFINA G. BELMONTI<br>CITY MNGR   | DATE: 10/10/2023                   | REVISION NO.:                           |               |

EL-03  
4 53

| SERVICE ENTRANCE 9  |                                   |     |     |      |     |  |
|---|-----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS   |                                   |     |     |      |     |  |
| INT. NO.  | LOAD DESCRIPTION                  | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1   | 75 WATTS LED LUMINAIRE - 11 UNITS | 825 | 220 | 3.75 | 30A | USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL   |                                   |     |     | 3.75 |     |  |
| IT = 3.75 AMPS  |                                   |     |     |      |     |  |
| MAIN FEEDER   |                                   |     |     |      |     |  |
| USE 3-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                   |     |     |      |     |  |
| MAIN BREAKER  |                                   |     |     |      |     |  |
| USE 30AT, 220V, 10, 60Hz CB   |                                   |     |     |      |     |  |

| SERVICE ENTRANCE 10   |                                  |     |     |      |     |  |
|---|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS   |                                  |     |     |      |     |  |
| INT. NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1   | 75 WATTS LED LUMINAIRE - 8 UNITS | 600 | 220 | 2.08 | 30A | USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2   | 75 WATTS LED LUMINAIRE - 4 UNITS | 300 | 220 | 1.36 | 30A | USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL   |                                  |     |     | 3.41 |     |  |
| IT = 3.41 AMPS  |                                  |     |     |      |     |  |
| MAIN FEEDER   |                                  |     |     |      |     |  |
| USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER  |                                  |     |     |      |     |  |
| USE 30AT, 220V, 10, 60Hz CB   |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 11   |                                  |     |     |      |     |  |
|---|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS   |                                  |     |     |      |     |  |
| INT. NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1   | 75 WATTS LED LUMINAIRE - 7 UNITS | 825 | 220 | 2.38 | 30A | USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2   | 75 WATTS LED LUMINAIRE - 8 UNITS | 825 | 220 | 2.05 | 30A | USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL   |                                  |     |     | 4.43 |     |  |
| IT = 4.43 AMPS  |                                  |     |     |      |     |  |
| MAIN FEEDER   |                                  |     |     |      |     |  |
| USE 3-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER  |                                  |     |     |      |     |  |
| USE 30AT, 220V, 10, 60Hz CB   |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 12   |                                  |     |     |      |     |  |
|---|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS   |                                  |     |     |      |     |  |
| INT. NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1   | 75 WATTS LED LUMINAIRE - 8 UNITS | 600 | 220 | 2.73 | 30A | USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2   | 75 WATTS LED LUMINAIRE - 3 UNITS | 225 | 220 | 0.98 | 30A | USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL   |                                  |     |     | 3.71 |     |  |
| IT = 3.71 AMPS  |                                  |     |     |      |     |  |
| MAIN FEEDER   |                                  |     |     |      |     |  |
| USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER  |                                  |     |     |      |     |  |
| USE 30AT, 220V, 10, 60Hz CB   |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 13   |                                  |     |     |      |     |  |
|---|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS   |                                  |     |     |      |     |  |
| INT. NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1   | 75 WATTS LED LUMINAIRE - 5 UNITS | 375 | 220 | 1.70 | 30A | USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2   | 75 WATTS LED LUMINAIRE - 8 UNITS | 600 | 220 | 1.76 | 30A | USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL   |                                  |     |     | 3.41 |     |  |
| IT = 3.41 AMPS  |                                  |     |     |      |     |  |
| MAIN FEEDER   |                                  |     |     |      |     |  |
| USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER  |                                  |     |     |      |     |  |
| USE 30AT, 220V, 10, 60Hz CB   |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 14   |                                  |     |     |      |     |  |
|---|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS   |                                  |     |     |      |     |  |
| INT. NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1   | 75 WATTS LED LUMINAIRE - 7 UNITS | 675 | 220 | 2.38 | 30A | USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2   | 75 WATTS LED LUMINAIRE - 8 UNITS | 600 | 220 | 2.05 | 30A | USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL   |                                  |     |     | 4.43 |     |  |
| IT = 4.43 AMPS  |                                  |     |     |      |     |  |
| MAIN FEEDER   |                                  |     |     |      |     |  |
| USE 3-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER  |                                  |     |     |      |     |  |
| USE 30AT, 220V, 10, 60Hz CB   |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 15   |                                  |     |     |      |     |  |
|---|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS   |                                  |     |     |      |     |  |
| INT. NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1   | 75 WATTS LED LUMINAIRE - 6 UNITS | 450 | 220 | 2.05 | 30A | USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL   |                                  |     |     | 2.05 |     |  |
| IT = 2.05 AMPS  |                                  |     |     |      |     |  |
| MAIN FEEDER   |                                  |     |     |      |     |  |
| USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER  |                                  |     |     |      |     |  |
| USE 30AT, 220V, 10, 60Hz CB   |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 16   |                                  |     |     |      |     |  |
|---|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS   |                                  |     |     |      |     |  |
| INT. NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1   | 75 WATTS LED LUMINAIRE - 3 UNITS | 225 | 220 | 0.97 | 30A | USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2   | 75 WATTS LED LUMINAIRE - 4 UNITS | 300 | 220 | 1.36 | 30A | USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL   |                                  |     |     | 2.33 |     |  |
| IT = 2.33 AMPS  |                                  |     |     |      |     |  |
| MAIN FEEDER   |                                  |     |     |      |     |  |
| USE 3-4.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER  |                                  |     |     |      |     |  |
| USE 30AT, 220V, 10, 60Hz CB   |                                  |     |     |      |     |  |

## 1 | LOAD SCHEDULE



Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION AND  
INSTALLATION OF STREETLIGHT  
POSTS AT BARANGAY PAYATAS

LOCATION:

BRGY. PAYATAS, DISTRICT 3, QUEZON CITY

DRAWN BY:

DATE:

CHECKED BY:

DESIGNED BY:

SUBMITTED BY:

ENGR. LEO S. DEL ROSARIO  
HEAD, PLANNING AND DESIGN DIVISION

RECOMMENDED APPROVAL:

ENGR. MARVIN R. VERZOSA, JR.  
D.C. CITY ENGINEERING DEPARTMENT

APPROVED BY:

HON. NA. JOSEFINA G. BELMONTÉ  
CITY MARCH

SHEET CONTENT:

LOAD SCHEDULE

SHEET NO.

EL-04  
5/53



| SERVICE ENTRANCE 17  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| UNIT NO.   | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 8 UNITS | 315 | 220 | 1.71 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 1.71 |     |  |
| IT = 1.71 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50AT, 220V, 10, 80% C.B.  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 18  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| UNIT NO.   | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 8 UNITS | 315 | 220 | 1.71 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 3 UNITS | 225 | 220 | 1.02 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 2.73 |     |  |
| IT = 2.73 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50AT, 220V, 10, 80% C.B.  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 19  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| UNIT NO.   | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 3 UNITS | 225 | 220 | 1.02 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 5 UNITS | 375 | 220 | 1.71 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 2.73 |     |  |
| IT = 2.73 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50AT, 220V, 10, 80% C.B.  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 20  |                                   |     |     |      |     |  |
|--|-----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                   |     |     |      |     |  |
| UNIT NO.   | LOAD DESCRIPTION                  | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 13 UNITS | 975 | 220 | 4.43 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 4 UNITS  | 300 | 220 | 1.36 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                   |     |     | 5.80 |     |  |
| IT = 5.80 AMPS   |                                   |     |     |      |     |  |
| MAIN FEEDER:   |                                   |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                   |     |     |      |     |  |
| MAIN BREAKER:  |                                   |     |     |      |     |  |
| USE: 50AT, 220V, 10, 80% C.B.  |                                   |     |     |      |     |  |

| SERVICE ENTRANCE 21  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| UNIT NO.   | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 8 UNITS | 315 | 220 | 1.71 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 4 UNITS | 300 | 220 | 1.36 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 3.07 |     |  |
| IT = 3.07 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50AT, 220V, 10, 80% C.B.  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 22  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| UNIT NO.   | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 4 UNITS | 300 | 220 | 1.36 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 3 UNITS | 225 | 220 | 1.02 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 2.38 |     |  |
| IT = 2.38 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50AT, 220V, 10, 80% C.B.  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 23  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| UNIT NO.   | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 8 UNITS | 315 | 220 | 1.71 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 1.71 |     |  |
| IT = 1.71 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50AT, 220V, 10, 80% C.B.  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 24  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| UNIT NO.   | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 5 UNITS | 375 | 220 | 1.71 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 3 UNITS | 225 | 220 | 1.02 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 2.73 |     |  |
| IT = 2.73 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50AT, 220V, 10, 80% C.B.  |                                  |     |     |      |     |  |

## LOAD SCHEDULE



Republika ng Pilipinas  
Lungsod ng Cebu  
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION AND  
INSTALLATION OF STREETLIGHT  
POSTS AT BARANGAY PAYATAS

LOCATION:

BRGY. PAYATAS, DISTRICT 2, CEBU CITY

DRAWN BY:

DATE:

CHECKED BY:

REVISIONS:

DESIGNED BY:

ENGR. LEO S. DEL ROSARIO  
HEAD, PLANNING & PROGRAM DIVISION

RECOMMENDING OFFICIAL:

ENGR. RAFAEL R. VERZOSA, JR.  
D.C. CITY ENGINEERING DEPARTMENT

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTÉ  
CITY MAOR

SHEET CONTENT:

LOAD SCHEDULE

SHEET NO.:

EL-05  
6/53

| SERVICE ENTRANCE 25  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CRIT. NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LAMP/WIRE - 3 LAMPS | 225 | 220 | 1.02 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LAMP/WIRE - 3 LAMPS | 225 | 220 | 1.02 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 2.04 |     |  |
| IT = 2.04 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50A T. 220V. 10.00% CB  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 26  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CRIT. NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LAMP/WIRE - 3 LAMPS | 225 | 220 | 1.02 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LAMP/WIRE - 3 LAMPS | 225 | 220 | 1.02 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 2.04 |     |  |
| IT = 2.04 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50A T. 220V. 10.00% CB  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 27  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CRIT. NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LAMP/WIRE - 8 LAMPS | 600 | 220 | 2.73 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LAMP/WIRE - 8 LAMPS | 600 | 220 | 2.73 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 5.45 |     |  |
| IT = 5.45 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50A T. 220V. 10.00% CB  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 28  |                                   |     |     |      |     |  |
|--|-----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                   |     |     |      |     |  |
| CRIT. NO.  | LOAD DESCRIPTION                  | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LAMP/WIRE - 11 LAMPS | 825 | 220 | 3.75 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LAMP/WIRE - 9 LAMPS  | 675 | 220 | 3.07 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                   |     |     | 6.82 |     |  |
| IT = 6.82 AMPS   |                                   |     |     |      |     |  |
| MAIN FEEDER:   |                                   |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                   |     |     |      |     |  |
| MAIN BREAKER:  |                                   |     |     |      |     |  |
| USE: 50A T. 220V. 10.00% CB  |                                   |     |     |      |     |  |

| SERVICE ENTRANCE 29  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CRIT. NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LAMP/WIRE - 8 LAMPS | 600 | 220 | 2.73 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LAMP/WIRE - 8 LAMPS | 600 | 220 | 2.73 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 5.46 |     |  |
| IT = 5.46 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50A T. 220V. 10.00% CB  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 30  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CRIT. NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LAMP/WIRE - 7 LAMPS | 525 | 220 | 2.38 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LAMP/WIRE - 5 LAMPS | 375 | 220 | 1.70 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 4.08 |     |  |
| IT = 4.08 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50A T. 220V. 10.00% CB  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 31  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CRIT. NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LAMP/WIRE - 7 LAMPS | 525 | 220 | 2.38 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LAMP/WIRE - 6 LAMPS | 450 | 220 | 2.05 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 4.43 |     |  |
| IT = 4.43 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50A T. 220V. 10.00% CB  |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 32  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CRIT. NO.  | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LAMP/WIRE - 8 LAMPS | 600 | 220 | 2.73 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LAMP/WIRE - 8 LAMPS | 600 | 220 | 2.73 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 5.46 |     |  |
| IT = 5.46 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER:   |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER:  |                                  |     |     |      |     |  |
| USE: 50A T. 220V. 10.00% CB  |                                  |     |     |      |     |  |

**LOAD SCHEDULE**



Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

|   |               |                                      |                                 |                               |               |               |
|---|---------------|--------------------------------------|---------------------------------|-------------------------------|---------------|---------------|
| PROJECT TITLE:  | DESIGNED BY:  | SUBMITTED BY:                        | RECOMMENDING APPROVAL:          | APPROVED BY:                  | DRAWN/CONTR.: | SHEET NO.:    |
| PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:         | ENGR. LEO S. DEL ROSARIO             | ENGR. ISABELA R. VERZOSA, JR.   | HON. MA. JOSEFINA G. BELMONTI | LOAD SCHEDULE | EL-06<br>7/53 |
| LOCATION:   | REVISION NO.: | HEAD, PLANNING & PRODUCTION DIVISION | CH. CITY ENGINEERING DEPARTMENT | CITY MGR.                     |               |               |

| SERVICE ENTRANCE 33  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CRY. NO.   | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 3 UNITS | 375 | 220 | 1.78 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 1.78 |     |  |
| IT = 1.78 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER  |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER   |                                  |     |     |      |     |  |
| USE: 30AT, 220V, 10, 60Hz C.B.   |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 34  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CRY. NO.   | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 3 UNITS | 375 | 220 | 1.78 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 4 UNITS | 300 | 220 | 1.36 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 3.07 |     |  |
| IT = 3.07 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER  |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER   |                                  |     |     |      |     |  |
| USE: 30AT, 220V, 10, 60Hz C.B.   |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 35  |                                   |     |     |      |     |  |
|--|-----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                   |     |     |      |     |  |
| CRY. NO.   | LOAD DESCRIPTION                  | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 12 UNITS | 900 | 220 | 4.09 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 3 UNITS  | 225 | 220 | 1.03 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                   |     |     | 5.11 |     |  |
| IT = 5.11 AMPS   |                                   |     |     |      |     |  |
| MAIN FEEDER  |                                   |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                   |     |     |      |     |  |
| MAIN BREAKER   |                                   |     |     |      |     |  |
| USE: 30AT, 220V, 10, 60Hz C.B.   |                                   |     |     |      |     |  |

| SERVICE ENTRANCE 36  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CRY. NO.   | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 6 UNITS | 450 | 220 | 2.04 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 3 UNITS | 375 | 220 | 1.71 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 3.75 |     |  |
| IT = 3.75 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER  |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER   |                                  |     |     |      |     |  |
| USE: 30AT, 220V, 10, 60Hz C.B.   |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 37  |                                   |     |     |      |     |  |
|--|-----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                   |     |     |      |     |  |
| CRY. NO.   | LOAD DESCRIPTION                  | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 11 UNITS | 825 | 220 | 3.75 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 7 UNITS  | 525 | 220 | 2.38 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                   |     |     | 6.14 |     |  |
| IT = 6.14 AMPS   |                                   |     |     |      |     |  |
| MAIN FEEDER  |                                   |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                   |     |     |      |     |  |
| MAIN BREAKER   |                                   |     |     |      |     |  |
| USE: 30AT, 220V, 10, 60Hz C.B.   |                                   |     |     |      |     |  |

| SERVICE ENTRANCE 38  |                                   |     |     |      |     |  |
|--|-----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                   |     |     |      |     |  |
| CRY. NO.   | LOAD DESCRIPTION                  | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 10 UNITS | 750 | 220 | 3.41 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 4 UNITS  | 300 | 220 | 1.36 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                   |     |     | 4.77 |     |  |
| IT = 4.77 AMPS   |                                   |     |     |      |     |  |
| MAIN FEEDER  |                                   |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                   |     |     |      |     |  |
| MAIN BREAKER   |                                   |     |     |      |     |  |
| USE: 30AT, 220V, 10, 60Hz C.B.   |                                   |     |     |      |     |  |

| SERVICE ENTRANCE 39  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CRY. NO.   | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 6 UNITS | 450 | 220 | 2.04 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 2 UNITS | 150 | 220 | 0.68 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 2.72 |     |  |
| IT = 2.72 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER  |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER   |                                  |     |     |      |     |  |
| USE: 30AT, 220V, 10, 60Hz C.B.   |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 40  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CRY. NO.   | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 5 UNITS | 375 | 220 | 1.71 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 1.71 |     |  |
| IT = 1.71 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER  |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER   |                                  |     |     |      |     |  |
| USE: 30AT, 220V, 10, 60Hz C.B.   |                                  |     |     |      |     |  |

| SERVICE ENTRANCE 41  |                                  |     |     |      |     |  |
|--|----------------------------------|-----|-----|------|-----|--|
| SCHEDULE OF LOADS  |                                  |     |     |      |     |  |
| CRY. NO.   | LOAD DESCRIPTION                 | VA  | V   | A    | CB  | SIZE OF WIRE AND CONDUITS  |
| 1  | 75 WATTS LED LUMINAIRE - 6 UNITS | 450 | 220 | 2.04 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| 2  | 75 WATTS LED LUMINAIRE - 4 UNITS | 300 | 220 | 1.36 | 30A | USE 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN WIRE (GROUNDING) IN 25mm <sup>2</sup> RSC |
| TOTAL  |                                  |     |     | 3.40 |     |  |
| IT = 3.40 AMPS   |                                  |     |     |      |     |  |
| MAIN FEEDER  |                                  |     |     |      |     |  |
| USE: 2-8.00mm <sup>2</sup> THHN WIRE & 1-8.00mm <sup>2</sup> THHN GROUND WIRE IN 25mm <sup>2</sup> RSC |                                  |     |     |      |     |  |
| MAIN BREAKER   |                                  |     |     |      |     |  |
| USE: 30AT, 220V, 10, 60Hz C.B.   |                                  |     |     |      |     |  |

## LOAD SCHEDULE



Republika ng Pilipinas  
Lungsod ng Cebu  
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION AND  
INSTALLATION OF STREETLIGHT  
POSTS AT BARANGAY PAYATAS

LOCATION:

BRGY. PAYATAS, DISTRICT 1, CEBU CITY

DRAWN BY:

DATE:

CHECKED BY:

REVISION NO.:

SUBMITTED BY:

DATE:

CHECKED BY:

REVISION NO.:

ENGR. LEO S. DEL ROSARIO  
HEAD, PLANNING & PROGRAM MANAGEMENT

RECOMMENDATION APPROVAL:

DATE:

CHECKED BY:

REVISION NO.:

ENGR. EDUARDO R. VERZOSA, JR.  
CH. CITY ENGINEERING DEPARTMENT

APPROVED BY:

DATE:

CHECKED BY:

REVISION NO.:

HON. MA. JOSEFINA G. BELMONTE  
CITY MAYOR

SHEET NO.:

DATE:

CHECKED BY:

REVISION NO.:

LOAD SCHEDULE

SHEET NO.:

DATE:

CHECKED BY:

REVISION NO.:

EL-07  
8 53





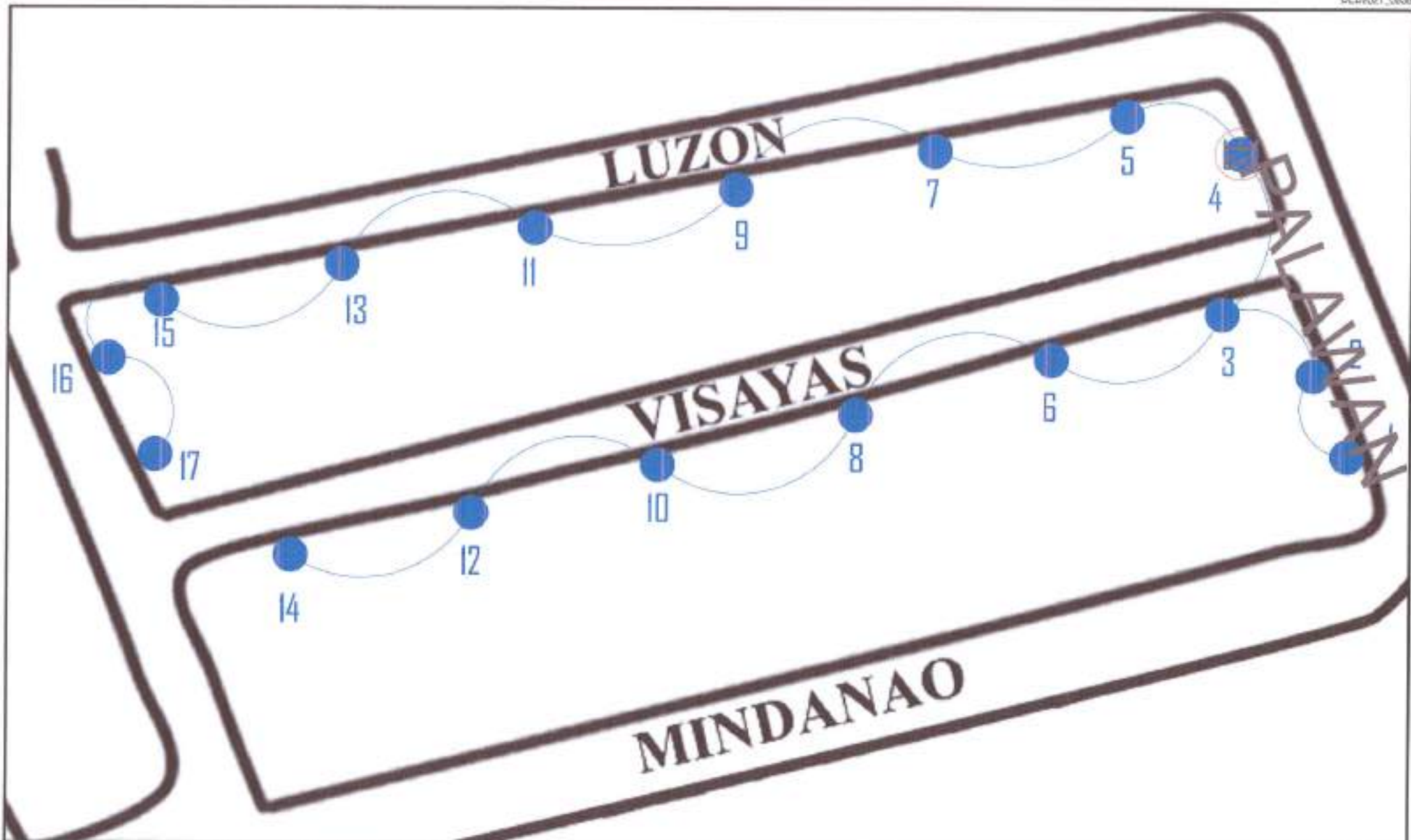
## 1 SITE DEVELOPMENT PLAN

SCALE: NTS



Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

|  |                        |   |   |  |                      |            |
|--|------------------------|---|---|--|----------------------|------------|
| PROJECT TITLE:   | DRAWN BY: <i>JAN</i>   | SUBMITTED BY:   | RECOMMENDING APPROVAL:  | APPROVED BY:                               | WEST CONTENT:        | SHEET NO.: |
| <b>PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS</b> | DATE:                  | <i>[Signature]</i>  | <i>[Signature]</i>  |  | 1ST DEVELOPMENT PLAN | EL-08      |
| LOCATION:  | CHECKED BY: <i>JAN</i> | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PRELIMINARY DESIGN | ENGR. ISIDORO R. VERZOSA, JR.<br>D.C. CITY ENGINEERING DEPARTMENT | HOH. NA. JOSEFINA G. BELMONTE<br>CITY MAOR |                      | 9/53       |
| BARANGAY: PAYATAS, DISTRICT 2, QUEZON CITY   | REVISION NO.:          |   |   |  |                      |            |



1 LIGHTING LAYOUT (SERVICE ENTRANCE 1)

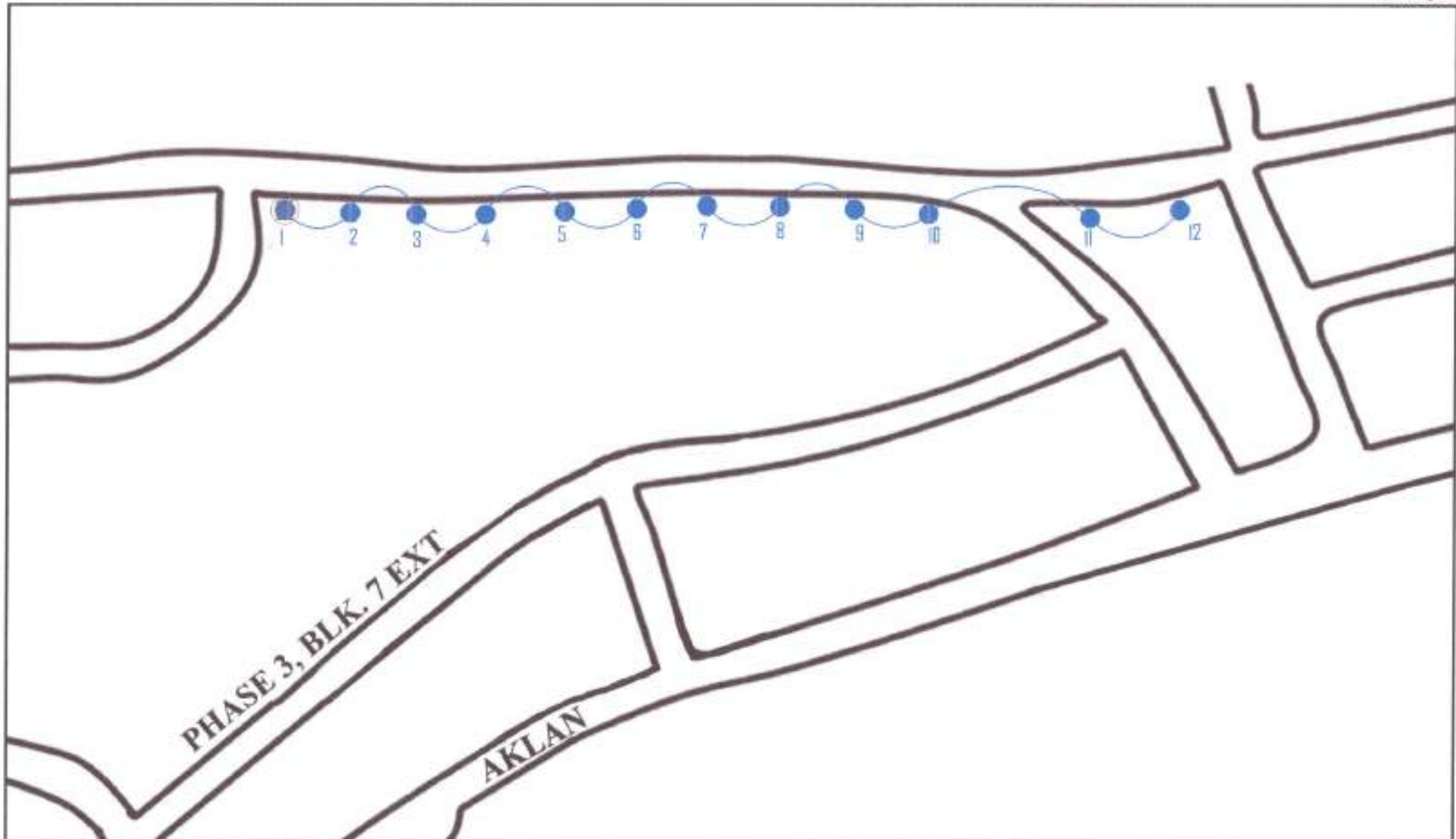
SCALE: NTS



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Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

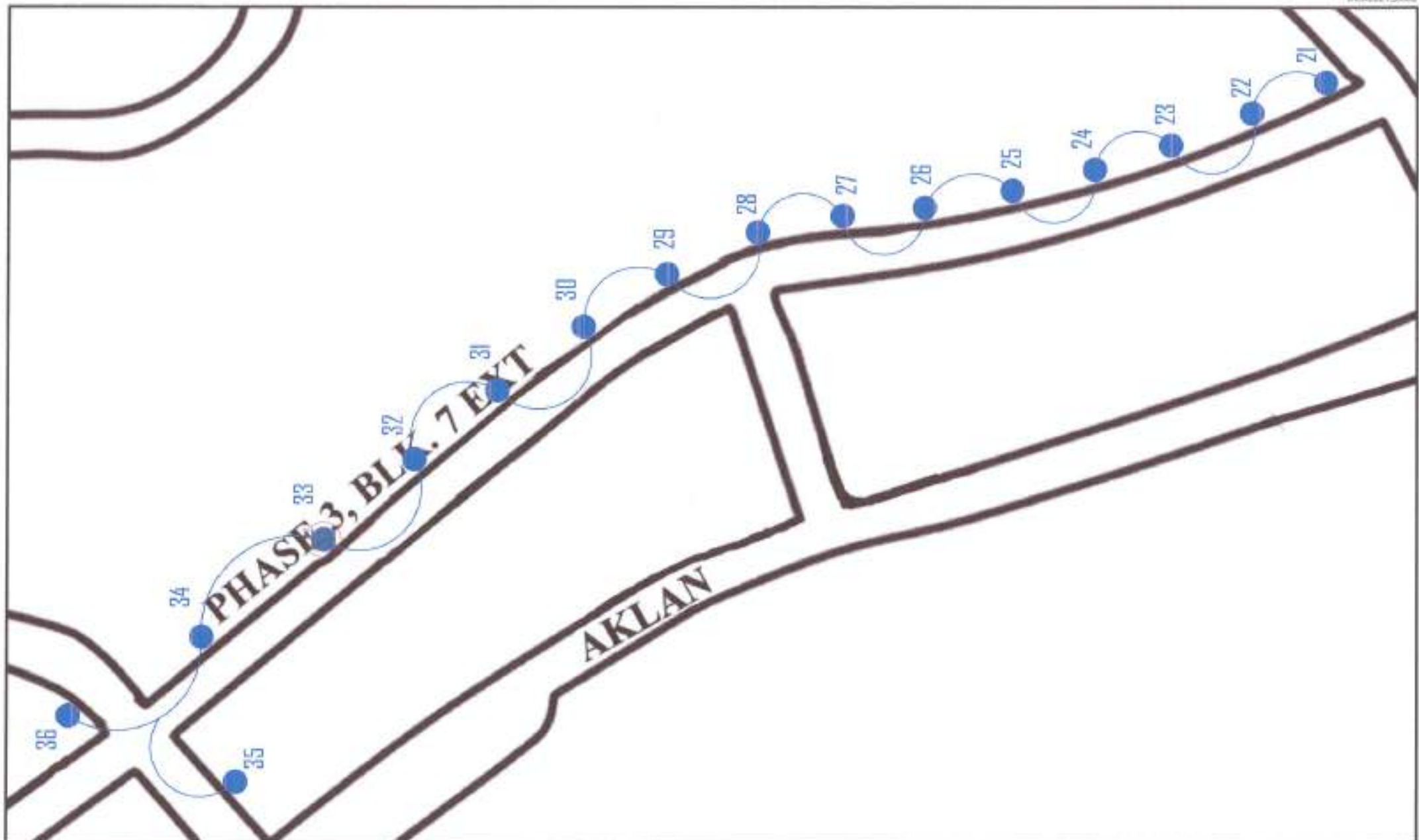
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| PROJECT TITLE:  | DRAWN BY: <i>[Signature]</i> | SUBMITTED BY:   | RECOMMENDING APPROVAL:  | APPROVED BY:                               | SHEET COUNT:                         | SHEET NO. |
| PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:                        | <i>[Signature]</i>  | <i>[Signature]</i>  |  | LIGHTING LAYOUT (SERVICE ENTRANCE 1) | EL-09     |
| LOCATION:<br>BRGY. PAYATAS, DISTRICT 2, QUEZON CITY                             | DESIGNED BY: JAN             | ENGR. LEO S. DEL ROSARIO<br>MAG. PLANNING & PROGRAMS DIVISION | ENGR. ISAGANI R. VERZOSA, JR.<br>D.D. CITY ENGINEERING DEPARTMENT | HON. MA. JOSEFINA G. BELMONTÉ<br>CITY MACE |                                      | 1053      |





### 1 LIGHTING LAYOUT (SERVICE ENTRANCE 2)

|  |  |  |   |   |   |   |                        |
|--|--|--|---|---|---|---|------------------------|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:   | DRAWN BY:  | SUBMITTED BY:   | RECOMMENDING APPROVAL:  | APPROVED BY:  | SHEET CONTENT:                              | SHEET NO:              |
|  | <p><b>PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS</b></p> <p>LOCATIONS:<br/>BRGY. PAYATAS, DISTRICT 2, QUEZON CITY</p> | <p>GATE:</p> <p>CHECKED BY: J.E.S.</p> <p>REVISIONS:</p> | <p>ENGR. GEO S. DEL ROSARIO<br/>ROAD, PLANNING &amp; POLYMER DIVISION</p> | <p>ENGR. SAGUN R. VERZOSA, JR.<br/>DCL, CITY ENGINEERING DEPARTMENT</p> | <p>HON. MA. JOSEFINA G. BELMORTE<br/>CITY MARCH</p> | <p>LIGHTING LAYOUT (SERVICE ENTRANCE 2)</p> | <p>EL-10<br/>11/53</p> |



1 LIGHTING LAYOUT (SERVICE ENTRANCE 3)



Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

|   |                                |   |  |  |                                      |                |
|---|--------------------------------|---|--|--|--------------------------------------|----------------|
| PROJECT TITLE:  | DRAWN BY: <i>[Signature]</i>   | SUBMITTED BY:   | RECOMMENDING APPROVAL:   | APPROVED BY:                               | SHEET CONTENT                        | SHEET NO.      |
| PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:                          | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAMMING DIVISION | ENGR. SAOANI R. VERZOSA, JR.<br>D.C. CITY ENGINEERING DEPARTMENT | HON. MA. JOSEFINA G. BELMONTI<br>CITY MANG | LIGHTING LAYOUT (SERVICE ENTRANCE 3) | EL-11<br>12/53 |
| LOCATION:<br>BPO, PAYATAS, DISTRICT 3, QUEZON CITY                              | CHECKED BY: <i>[Signature]</i> |   |  |  |                                      |                |

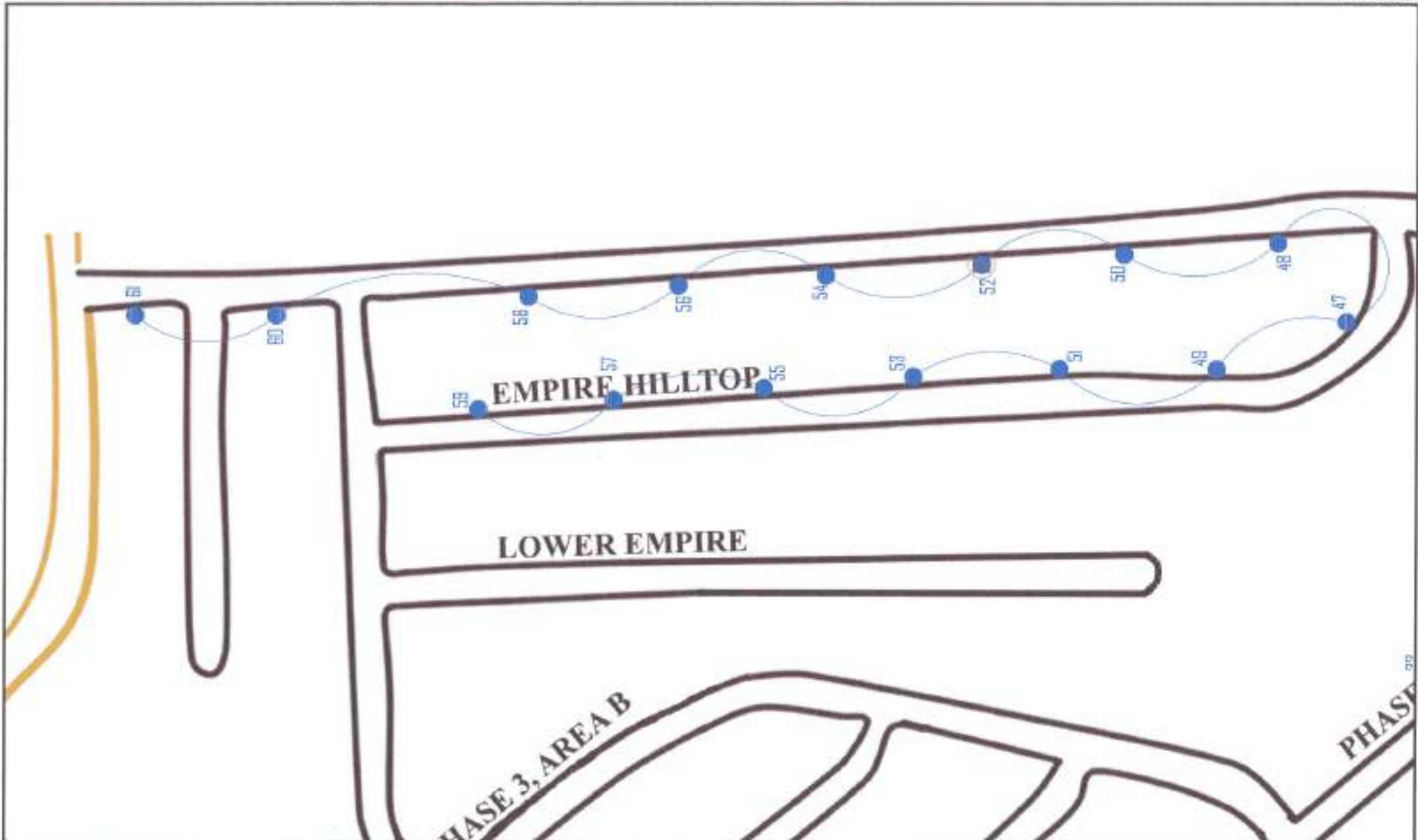
ENGR. LEO S. DEL ROSARIO  
HEAD, PLANNING & PROGRAMMING DIVISION

ENGR. SAOANI R. VERZOSA, JR.  
D.C. CITY ENGINEERING DEPARTMENT


HON. MA. JOSEFINA G. BELMONTI  
CITY MANG

LIGHTING LAYOUT (SERVICE ENTRANCE 3)

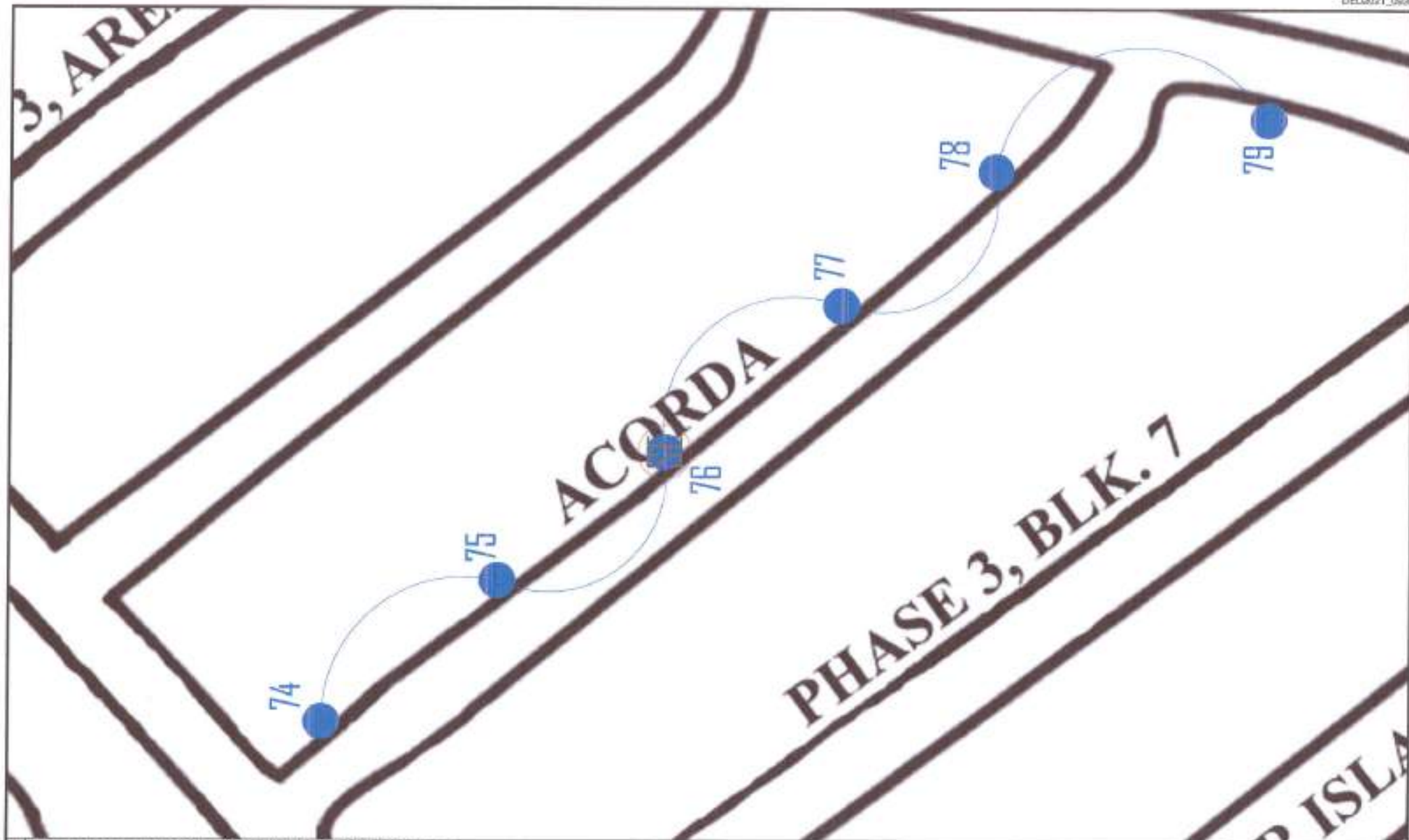
EL-11  
12/53




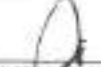



1 | LIGHTING LAYOUT (SERVICE ENTRANCE 4)

|   |   |                                |                                  |  |  |                                      |   |
|---|---|--------------------------------|----------------------------------|--|--|--------------------------------------|---|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/><b>CITY ENGINEERING DEPARTMENT</b></p> | PROJECT TITLE:  | DRAWN BY: <i>[Signature]</i>   | SUBMITTED BY: <i>[Signature]</i> | RECOMMENDING APPROVAL:   | APPROVED BY:   | SHEET CONTENT:                       | SHEET NO.   |
|   | PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | GATE:                          | <i>[Signature]</i>               | <i>[Signature]</i>   |  | LIGHTING LAYOUT (SERVICE ENTRANCE 4) | <div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">                 EL-12<br/>1353             </div> |
|   | LOCATION:<br>BUD. PAYATAS, DISTRICT 7, QUEZON CITY                              | CHECKED BY: <i>[Signature]</i> | REVISIONS:                       | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAM DEVELOPMENT | ENGR. ISAGANI R. VERZOSA, JR.<br>CH. CITY ENGINEERING DEPARTMENT |                                      |   |








**1 LIGHTING LAYOUT (SERVICE ENTRANCE 5)**

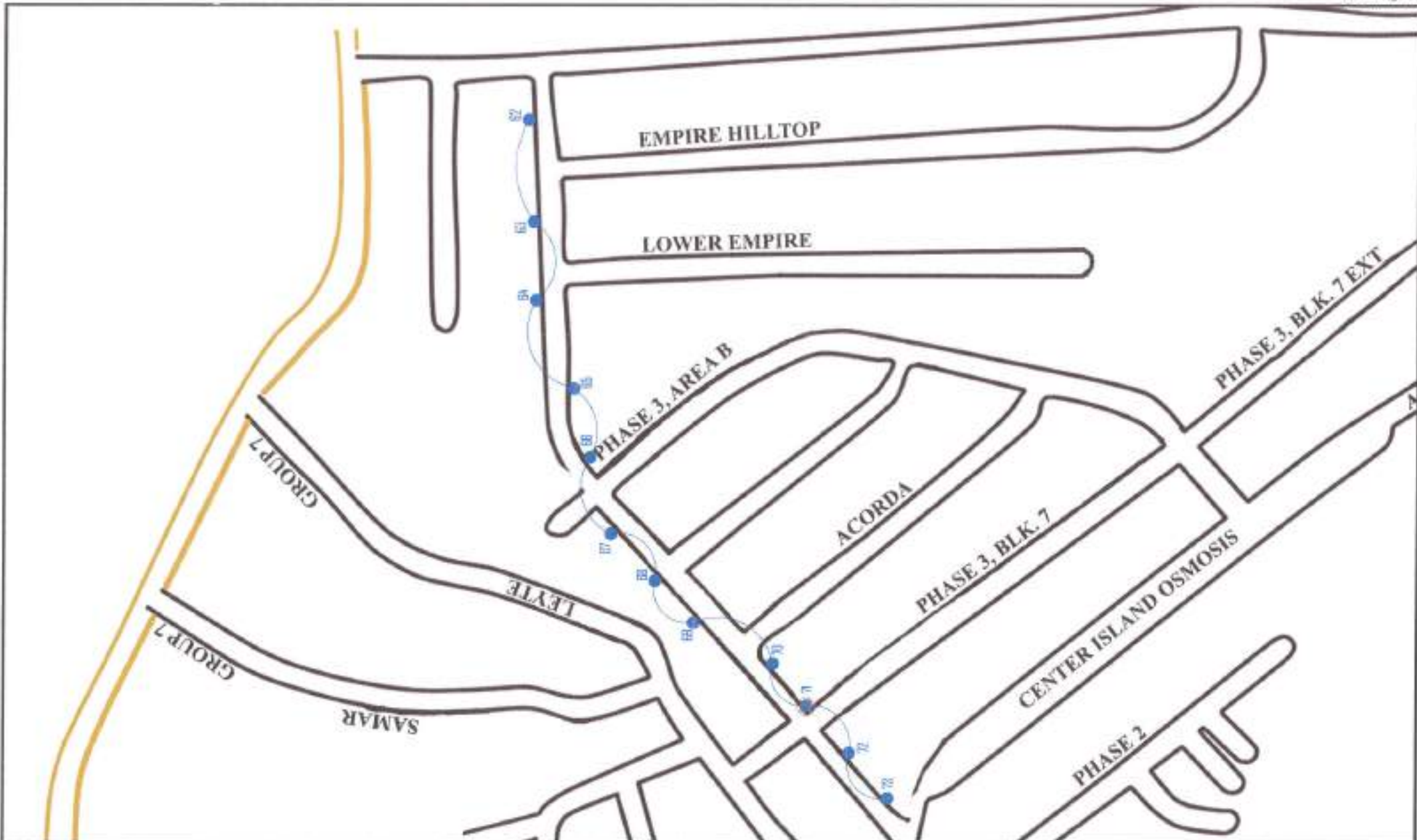
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|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/><b>CITY ENGINEERING DEPARTMENT</b></p> | PROJECT TITLE:   | DRAWN BY:    | SUBMITTED BY:  | RECOMMENDING APPROVAL:  | APPROVED BY:  | SHEET CONTENT:                                     | SHEET NO.:                                       |              |
|   | <b>PROPOSED CONSTRUCTION AND<br/>INSTALLATION OF STREETLIGHT<br/>POSTS AT BARANGAY PAYATAS</b> | DATE:   |   |  |   |  | <b>LIGHTING EXPLORE<br/>(SERVICE ENTRANCE 5)</b> | <b>EL-13</b> |
|   | LOCATION:<br>BHDY. PAYATAS, DISTRICT 2, QUEZON CITY  | CHECKED BY:  | REVISION NO.:   | <b>ENGR. LEE S. DEL ROSARIO</b><br>HEAD, PLANNING & DESIGN DIVISION  | <b>ENGR. EDGARD R. VERZOSA, JR.</b><br>I.C. CITY ENGINEERING DEPARTMENT | <b>HON. MA. JOSEFINA G. BELMONTE</b><br>CITY MAGER |  | <b>1453</b>  |



1 LIGHTING LAYOUT (SERVICE ENTRANCE 6)

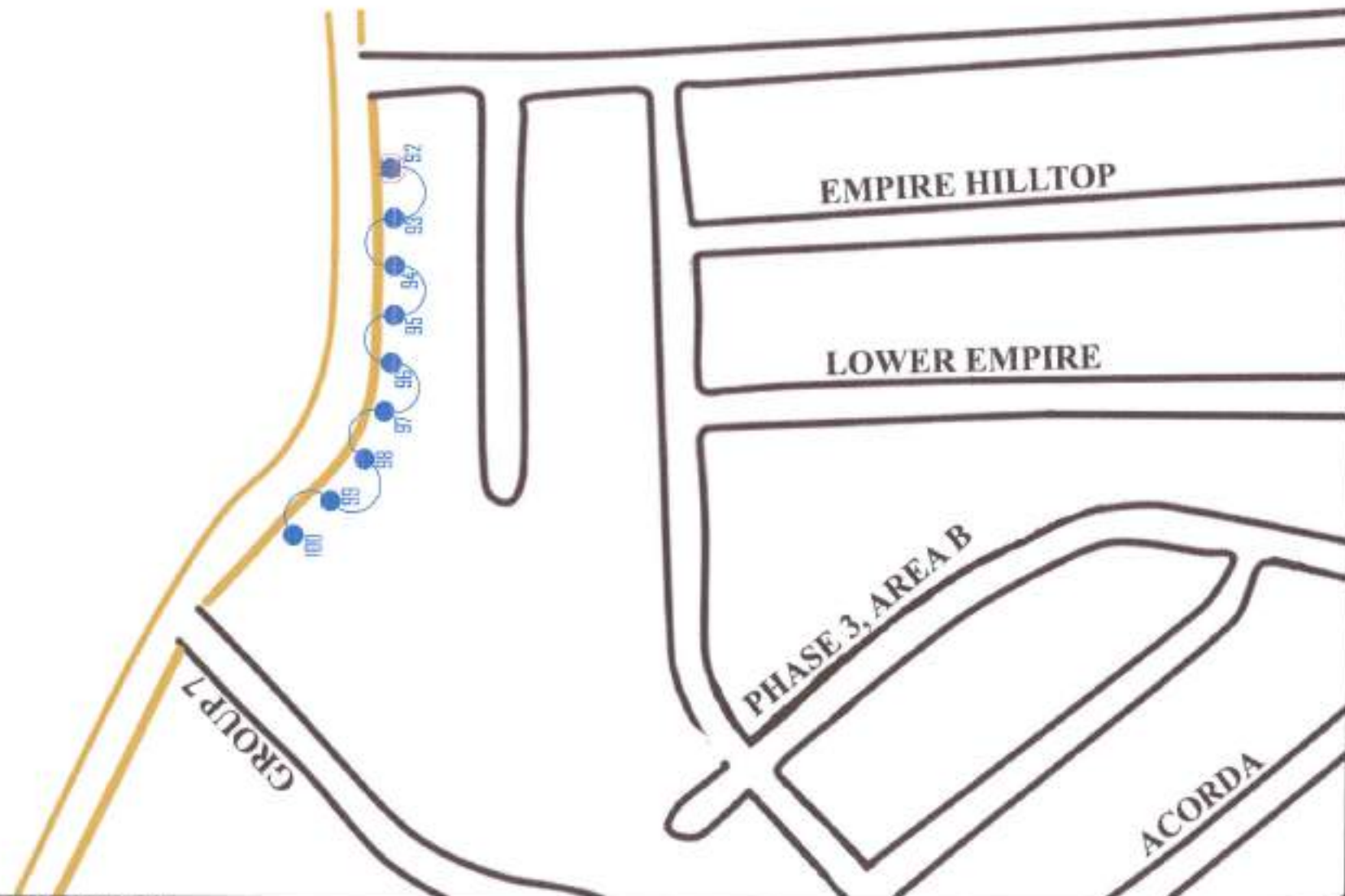
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|--|---|--------------|---|---|--|--------------------------------------|---|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:  | DIVAN BY:    | SUBMITTED BY:   | COORDINATOR'S APPROVAL:   | APPROVED BY:                               | SHEET CONTENT:                       | SHEET NO.   |
|  | PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:        |  |  |  | LIGHTING LAYOUT (SERVICE ENTRANCE 6) |  |
|  | LOCATION:<br>BRGY. PAYATAS, DISTRICT 7, QUEZON CITY                             | CHECKED BY:  | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING AND DESIGN DIVISION                        | ENGR. ESMERALDO R. VERZOSA, JR.<br>CH. ENGINEER-COORDINATOR                           | HON. MA. JOSEFINA G. BELMONTE<br>CITY MAOR |                                      |   |
|  |   | VERSION NO.: |   |   |  |                                      |   |





1 | LIGHTING LAYOUT (SERVICE ENTRANCE 7)

|  |  |   |  |  |  |   |   |
|--|--|---|--|--|--|---|---|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:<br><b>PROPOSED CONSTRUCTION AND<br/>INSTALLATION OF STREETLIGHT<br/>POSTS AT BARANGAY PAYATAS</b> | DRAWN BY: <i>[Signature]</i><br>DATE: _____<br>CHECKED BY: <i>[Signature]</i><br>REVIEWED BY: _____ | SUBMITTED BY:<br><br>ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING PROGRAMS DIVISION | RECOMMENDING APPROVAL:<br><br>EPAGR. ISAGANI R. VERZOSA, JR.<br>DE. CITY ENGINEERING DEPARTMENT | APPROVED BY:<br><br>HON. MA. JOSEFINA G. BELMONTE<br>CITY MAYOR | SHEET CONTENT:<br>LIGHTING LAYOUT<br>(SERVICE ENTRANCE 7) | SHEET NO.:<br> |
|  | LOCATION:<br>BRGY. PAYATAS, DISTRICT 2, QUEZON CITY  |   |  |  |  |   |   |


**1 LIGHTING LAYOUT (SERVICE ENTRANCE 8)**


Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

| PROJECT TITLE:  | DRAWN BY:                         | SUBMITTED BY:   | RECOMMENDING APPROVAL:  | APPROVED BY:   | SHEET CONTENT                        | SHEET NO.                    |
|---|-----------------------------------|---|---|--|--------------------------------------|------------------------------|
| <b>PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS.</b> | DATE: _____<br>CHECKED BY: J.A.N. | <br><b>ENGR. LEWIS DEL ROSARIO</b><br>HEAD, PLANNING & PROGRAMMING DIVISION | <br><b>ENGR. ROGAN R. VERZOSA, JR.</b><br>DEPT. CITY ENGINEERING DEPARTMENT | <br><b>HON. MA. JOSEFINA G. BELMONTE</b><br>CITY MAYOR | LIGHTING LAYOUT (SERVICE ENTRANCE 8) | <b>EL-16</b><br><b>17 53</b> |
| LOCATION:<br>BARAY, PAYATAS, DISTRICT 2, QUEZON CITY                                    | DESIGNED BY:                      |   |   |  |                                      |                              |



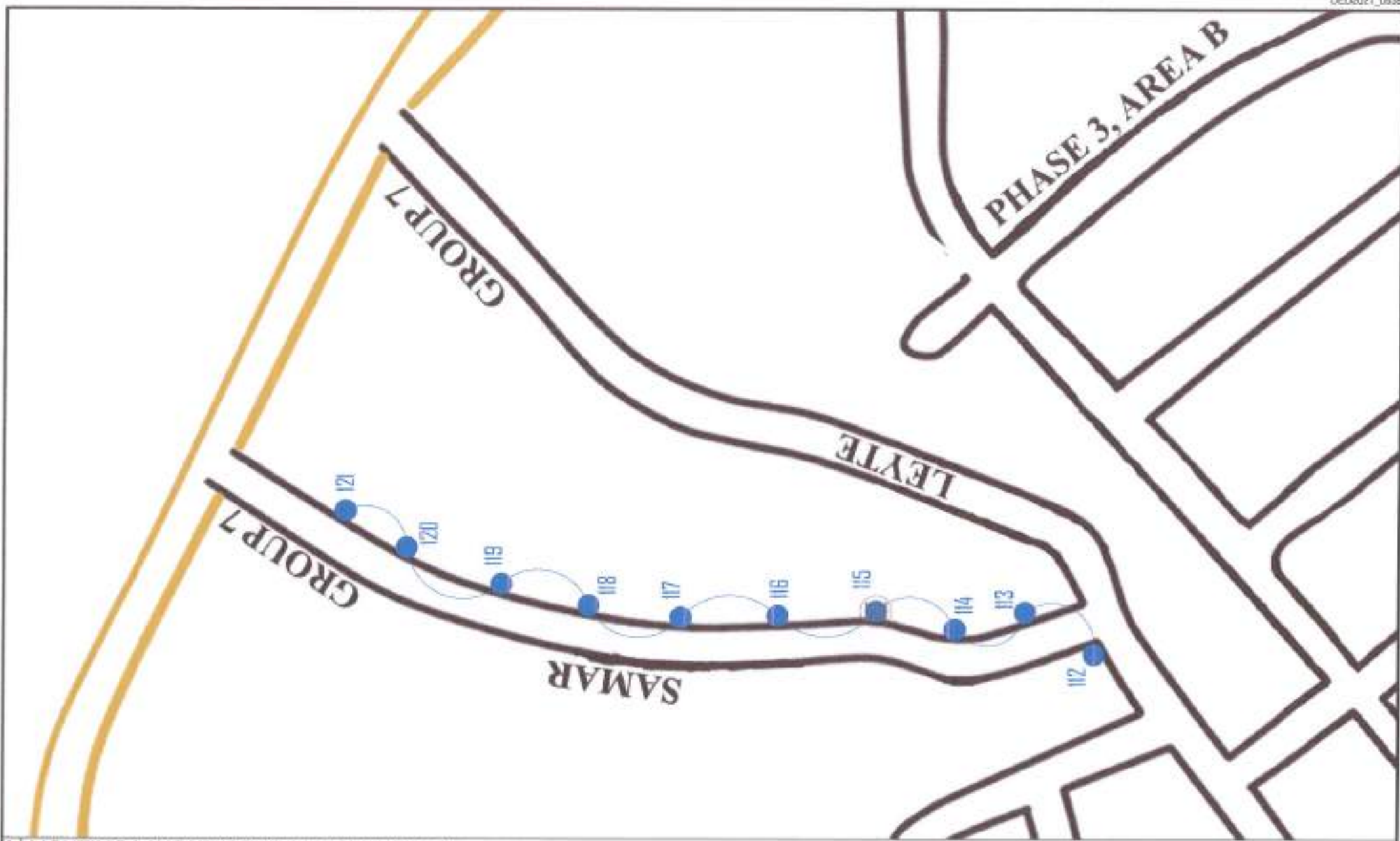
1 LIGHTING LAYOUT (SERVICE ENTRANCE 9)




Republika ng Pilipinas  
Lungsod ng Davao  
CITY ENGINEERING DEPARTMENT

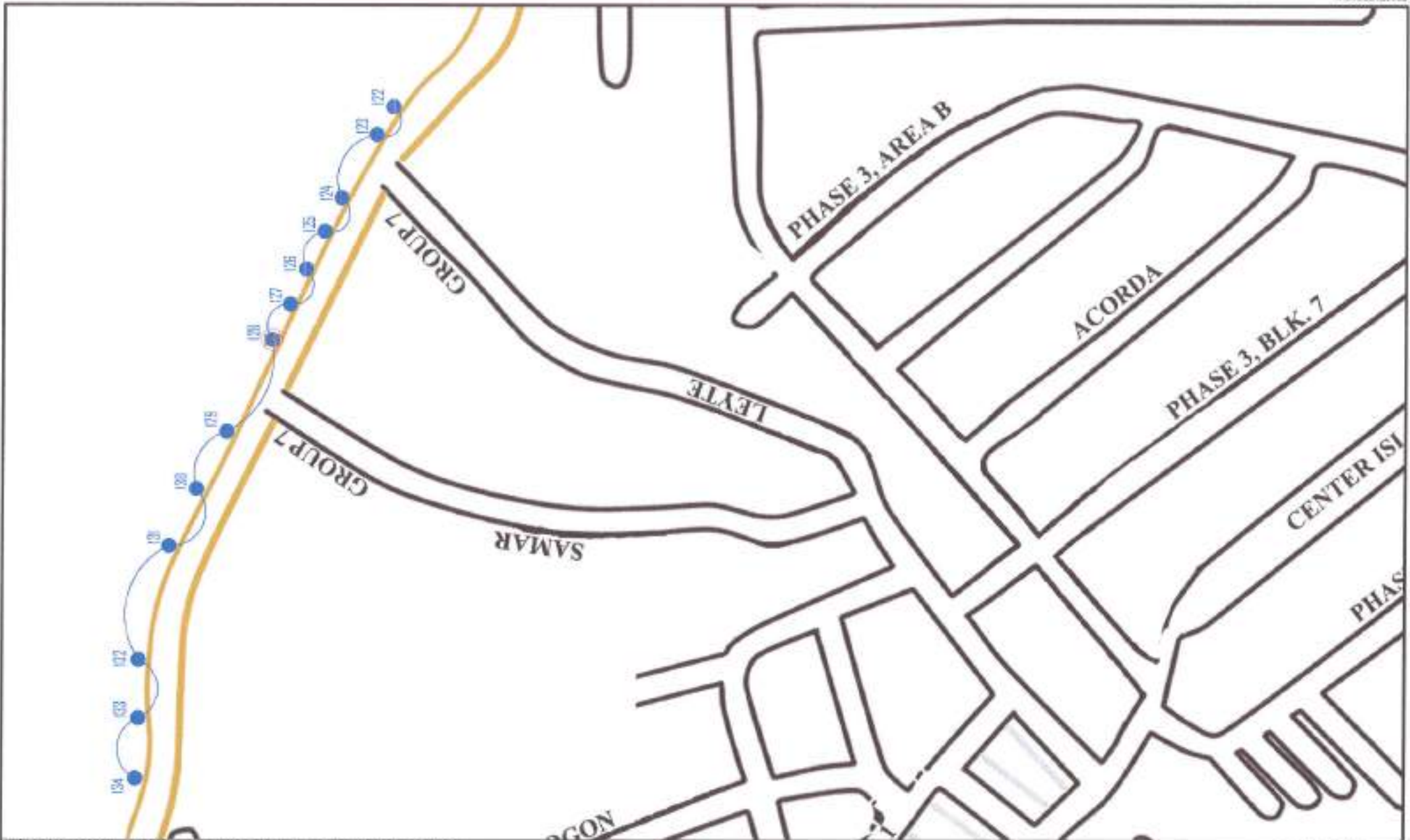
|  |  |                                  |   |   |  |   |
|--|--|----------------------------------|---|---|--|---|
| PROJECT TITLE:<br><b>PROPOSED CONSTRUCTION AND<br/>INSTALLATION OF STREETLIGHT<br/>POSTS AT BARANGAY PAYATAS</b> | DRAWN BY: <i>[Signature]</i>                       | SUBMITTED BY: <i>[Signature]</i> | RECOMMENDING APPROVAL: <i>[Signature]</i>                       | APPROVED BY: <i>[Signature]</i>                                     | SHEET COUNT:<br>LIGHTING LAYOUT (SERVICE ENTRANCE 9) | SHEET NO:<br><b>EL-17</b><br><b>18/53</b> |
|  | DATE:  | CHECKED BY: <i>[Signature]</i>   | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAMMING OFFICE | ENGR. JOSE RAM R. VERZOSA, JR.<br>CH. OF THE ENGINEERING DEPARTMENT | NON. MA. JOSEFA B. BELMONTE<br>CITY MAYOR            |   |
|  | LOCATION:<br>BRGY. PAYATAS, DISTRICT 4, DAVAO CITY | DESIGN NO.:                      |   |   |  |   |






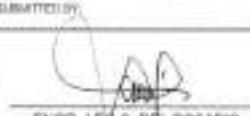
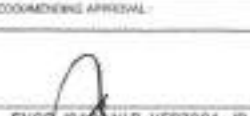

1 LIGHTING LAYOUT (SERVICE ENTRANCE 10)

|  |   |              |   |   |   |                                       |   |
|--|---|--------------|---|---|---|---------------------------------------|---|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:  | DRAWN BY:    | SUBMITTED BY:   | RECOMMENDING APPROVAL:  | APPROVED BY:                                | SHEET CONTENT:                        | SHEET NO.   |
|  | PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:        |  |  |   | LIGHTING LAYOUT (SERVICE ENTRANCE 10) |  |
|  | LOCATION:<br>BNGY. PAYATAS DISTRICT 2, QUEZON CITY                              | DESIGNED BY: | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAMMING DIVISION                     | ENGR. ISAGANI R. VERZOSA, JR.<br>DCC OFF. (ENGINEERING DEPARTMENT)                    | HON. MA. JOSEFINA D. BELMONTE<br>CITY MAYOR |                                       |   |

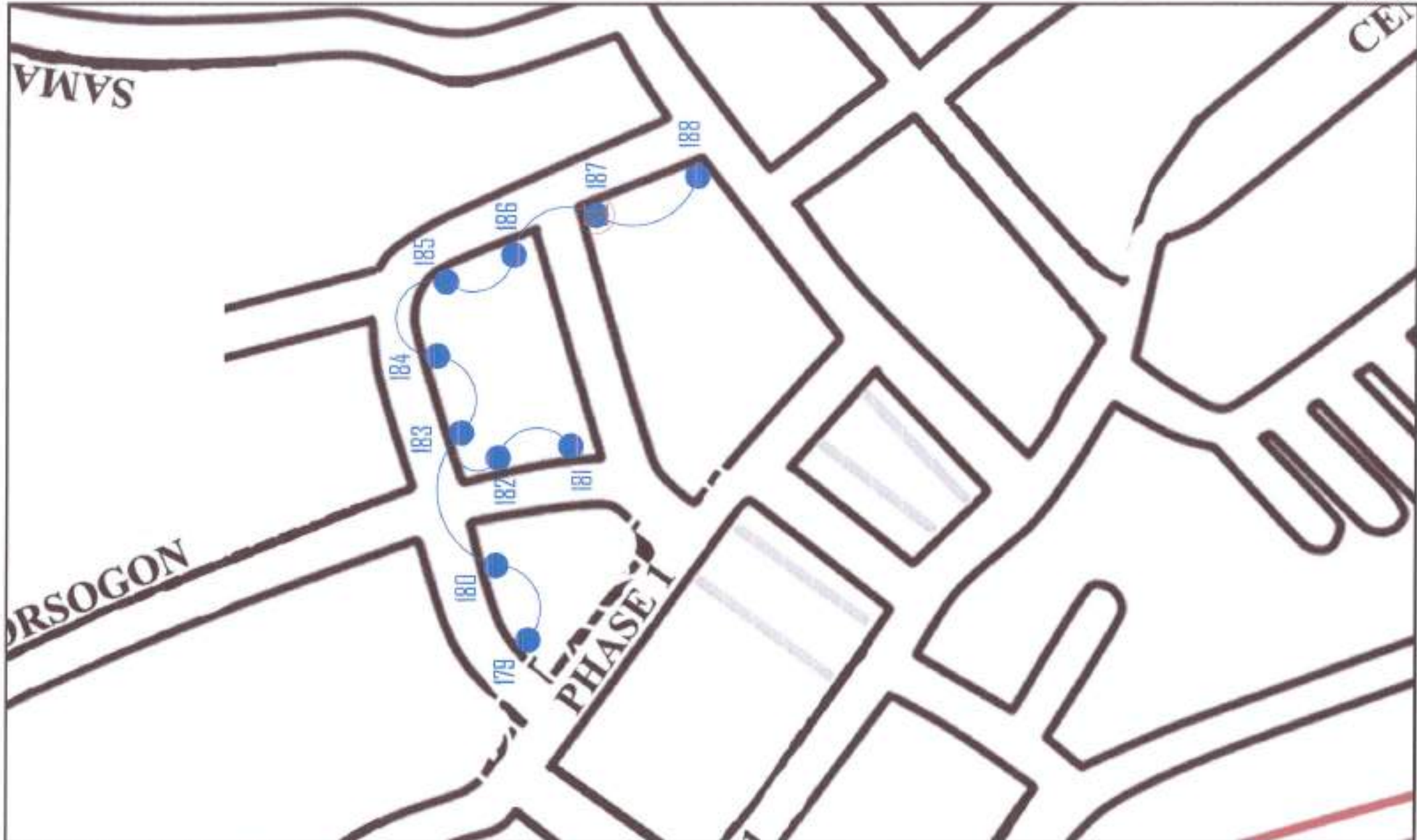


1 | LIGHTING LAYOUT (SERVICE ENTRANCE 11)


SCALE: NTS

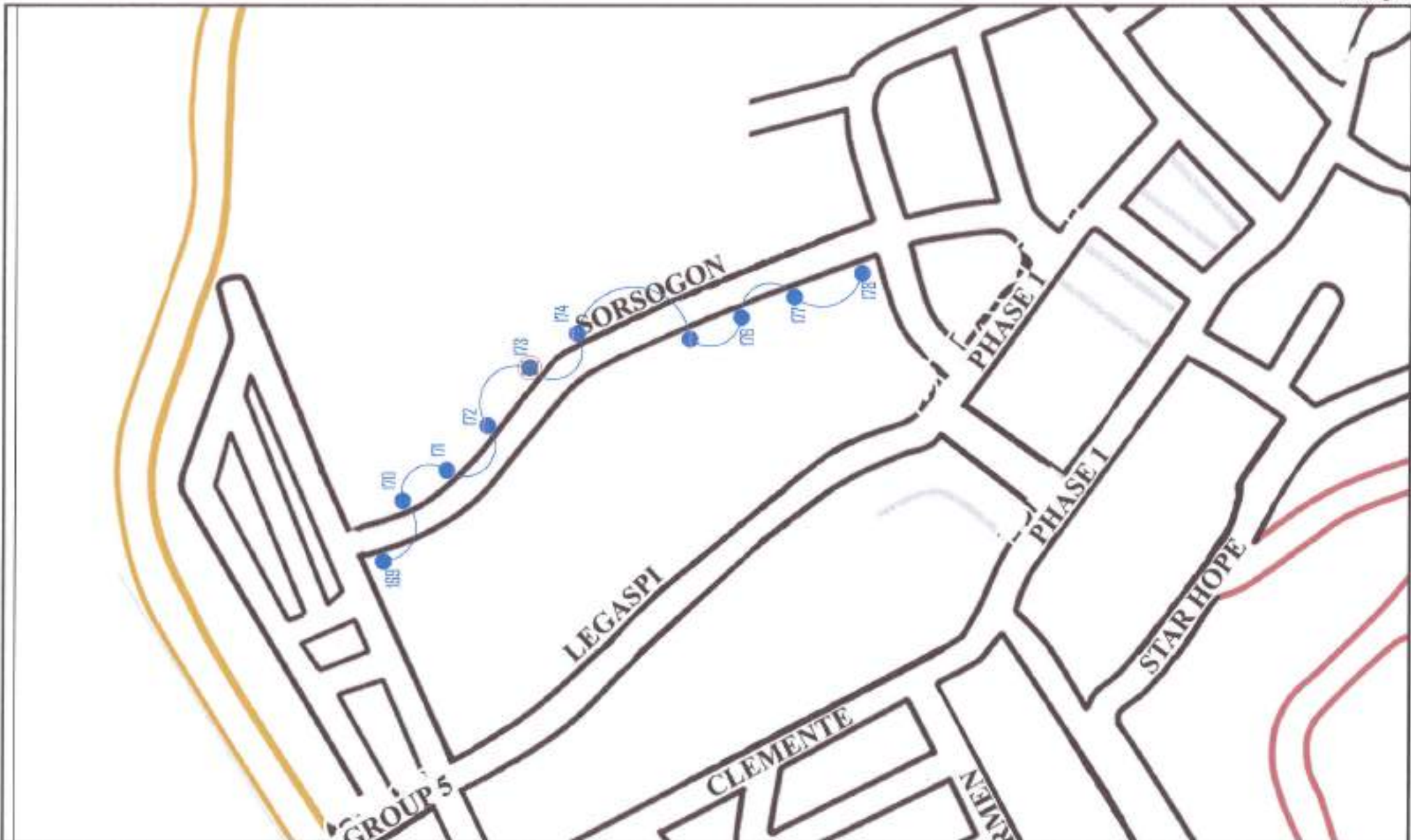
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|--|---|-----------------|---|---|---|--|------------|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:  | DRAWN BY:       | SUBMITTED BY:   | RECOMMENDING APPROVAL:  | APPROVED BY:  | SHEET NO.:                                     | SHEET NO.: |
|  | PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:           |  |  |  | LIGHTING LAYOUT (SERVICE ENTRANCE 11)          | EL-19      |
|  | LOCATION:<br>BRGY. PAYATAS, DISTRICT 2, QUEZON CITY                             | CHECKED BY: JAH | PERSON NO.:   | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING AND DESIGN DIVISION                        | ENGR. ISIDORO R. VERZOSA, JR.<br>CH. ENGINEER (REGISTERED)                            | HON. MA. JOSEFINA G. BELMONTE<br>CITY ENGINEER | 2053       |





1 | LIGHTING LAYOUT (SERVICE ENTRANCE 12)

|  |   |                              |   |  |   |                                       |                |
|--|---|------------------------------|---|--|---|---------------------------------------|----------------|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:  | DRAWN BY: <i>[Signature]</i> | SUBMITTED BY:   | RECOMMENDING APPROVAL:   | APPROVED BY:                                | SHEET CONTENT                         | SHEET NO.      |
|  | PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:                        | <i>[Signature]</i>  | <i>[Signature]</i>   |   | LIGHTING LAYOUT (SERVICE ENTRANCE 12) | EL-20<br>21/53 |
|  | LOCATION:<br>BRGY. PAYATAS, DISTRICT 2, QUEZON CITY                             | DRAWN BY: <i>[Signature]</i> | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAM DIVISION | ENGR. EMMANUEL R. VERZOSA, JR.<br>CH. ENGR. ENGINEERING DEPARTMENT | HON. MA. JOSEFINA G. BELMONTE<br>CITY MAJOR |                                       |                |



1 LIGHTING LAYOUT (SERVICE ENTRANCE 13)



Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

|   |                    |  |   |  |                                       |            |
|---|--------------------|--|---|--|---------------------------------------|------------|
| PROJECT TITLE:  | DRAWN BY:          | SUBMITTED ON:  | RECOMMENDING APPROVAL:  | APPROVED BY:                               | SHEET CONTENT:                        | SHEET NO.: |
| PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:              |  |   |  | LIGHTING LAYOUT (SERVICE ENTRANCE 13) | EL-21      |
| LOCATION:<br>BPOV, PAYATAS, DISTRICT 2, QUEZON CITY                             | CHECKED BY: J.A.H. | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING AND DESIGN DIVISION | ENGR. BASILIO R. VERZOSA, JR.<br>D.C. CITY ENGINEERING DEPARTMENT | HON. MA. JOSEFINA G. BELMONTE<br>CITY MAOR |                                       | 22/53      |
|   | REVISIONS:         |  |   |  |                                       |            |



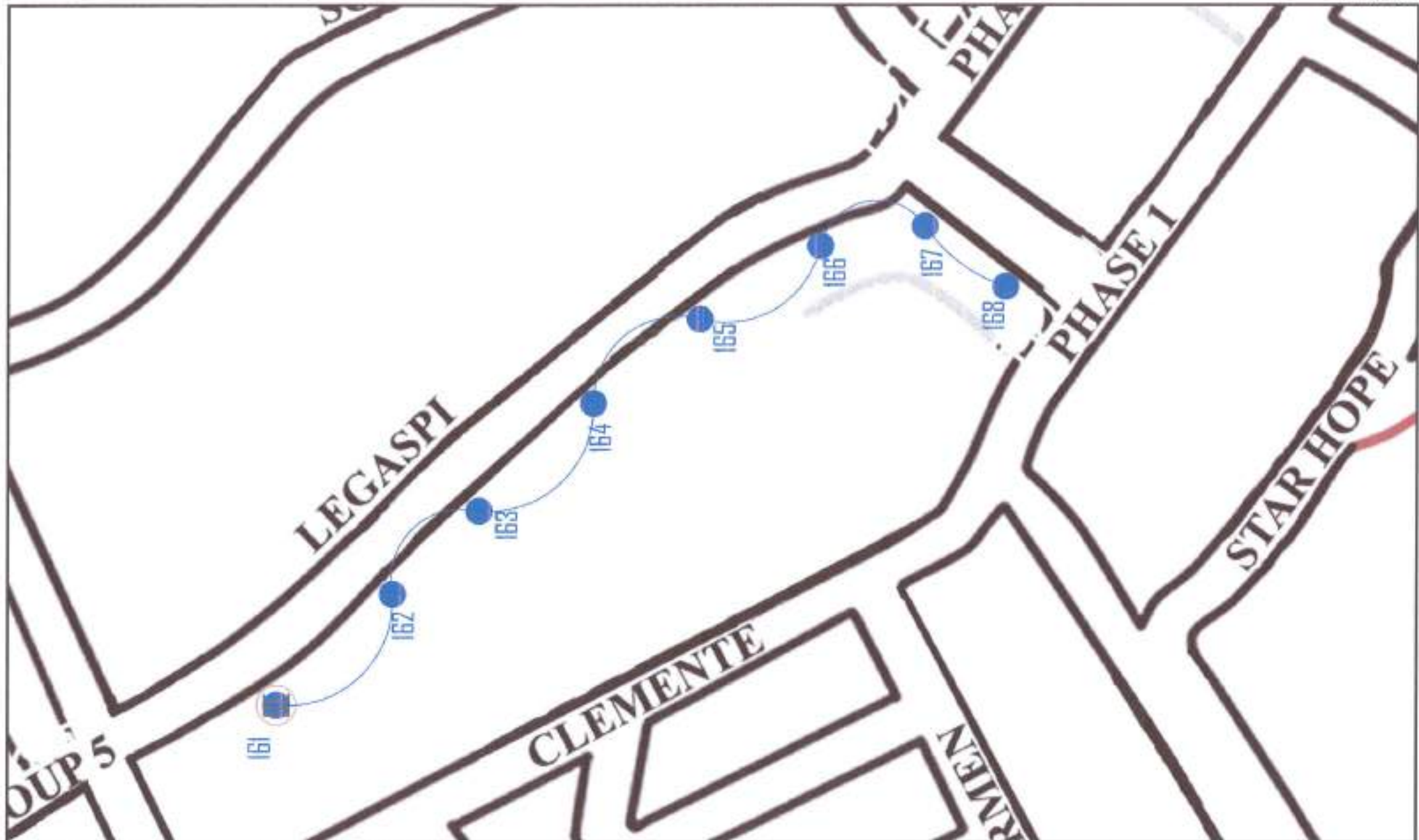


# 1 | LIGHTING LAYOUT (SERVICE ENTRANCE 14)



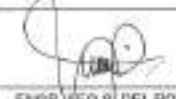

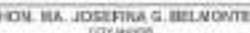


Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

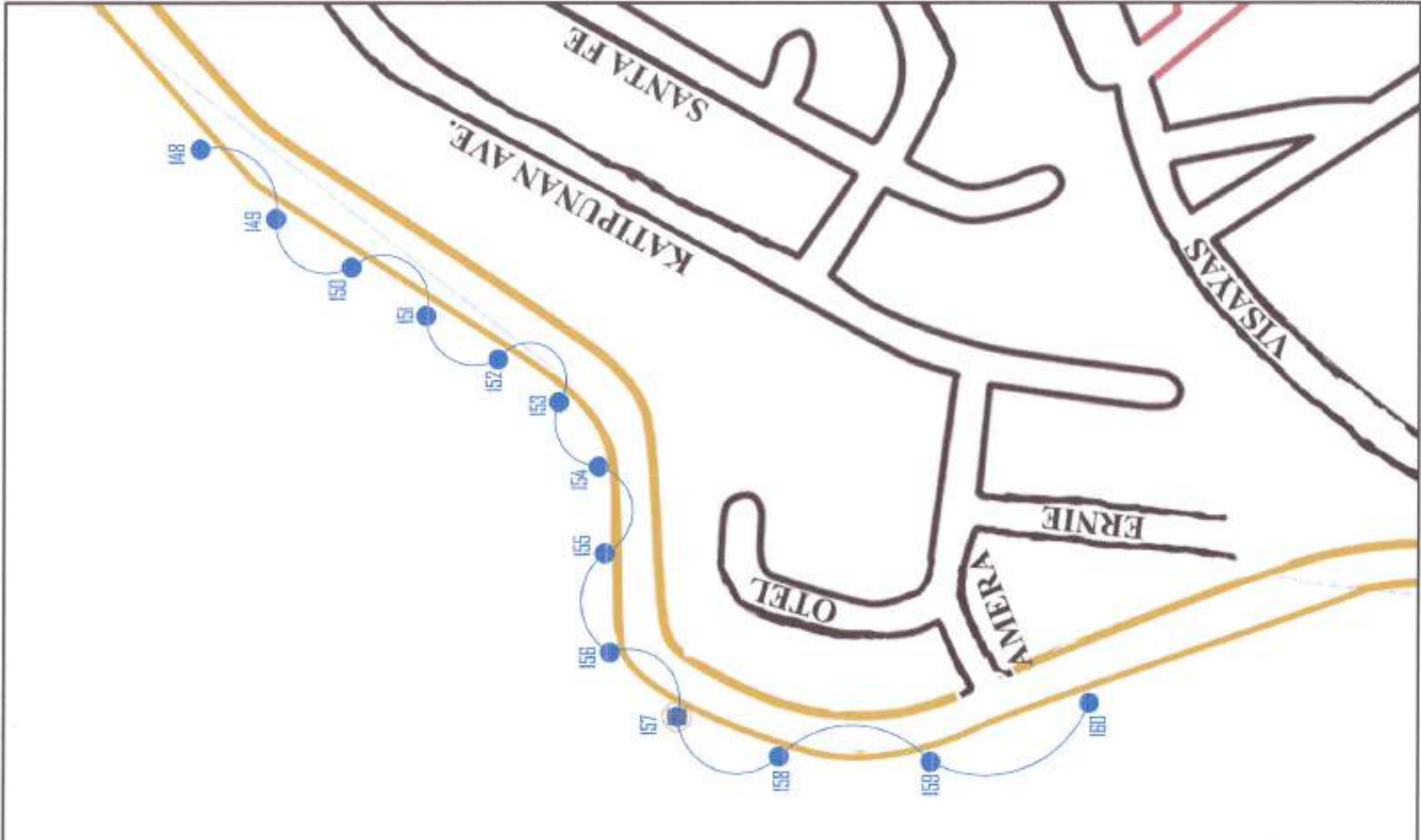
| PROJECT TITLE   | DRAWN BY           | DATE | CHECKED BY         | REVISION NO. | RECOMMENDING APPROVAL                                       | APPROVED BY   | SHEET CONTENT                              | SHEET NO.      |
|---|--------------------|------|--------------------|--------------|---|---|--|----------------|
| PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | <i>[Signature]</i> |      | <i>[Signature]</i> |              | <i>[Signature]</i>  | <i>[Signature]</i>  | LIGHTING LAYOUT (SERVICE ENTRANCE 14)      | EL-22<br>23/53 |
| LOCATION:<br>BNGC, PAYATAS, DISTRICT 8, QUEZON CITY                             |                    |      |                    |              | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING PROGRAM DIVISION | ENGR. JOSEAN R. VERZOSA, JR.<br>CC, CITY ENGINEERING DEPARTMENT | HON. MA. JOSEFINA G. BELMONTE<br>CITY MAOR |                |




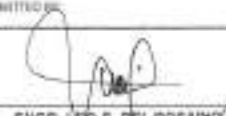
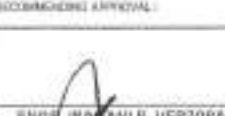

1 LIGHTING LAYOUT (SERVICE ENTRANCE 15)

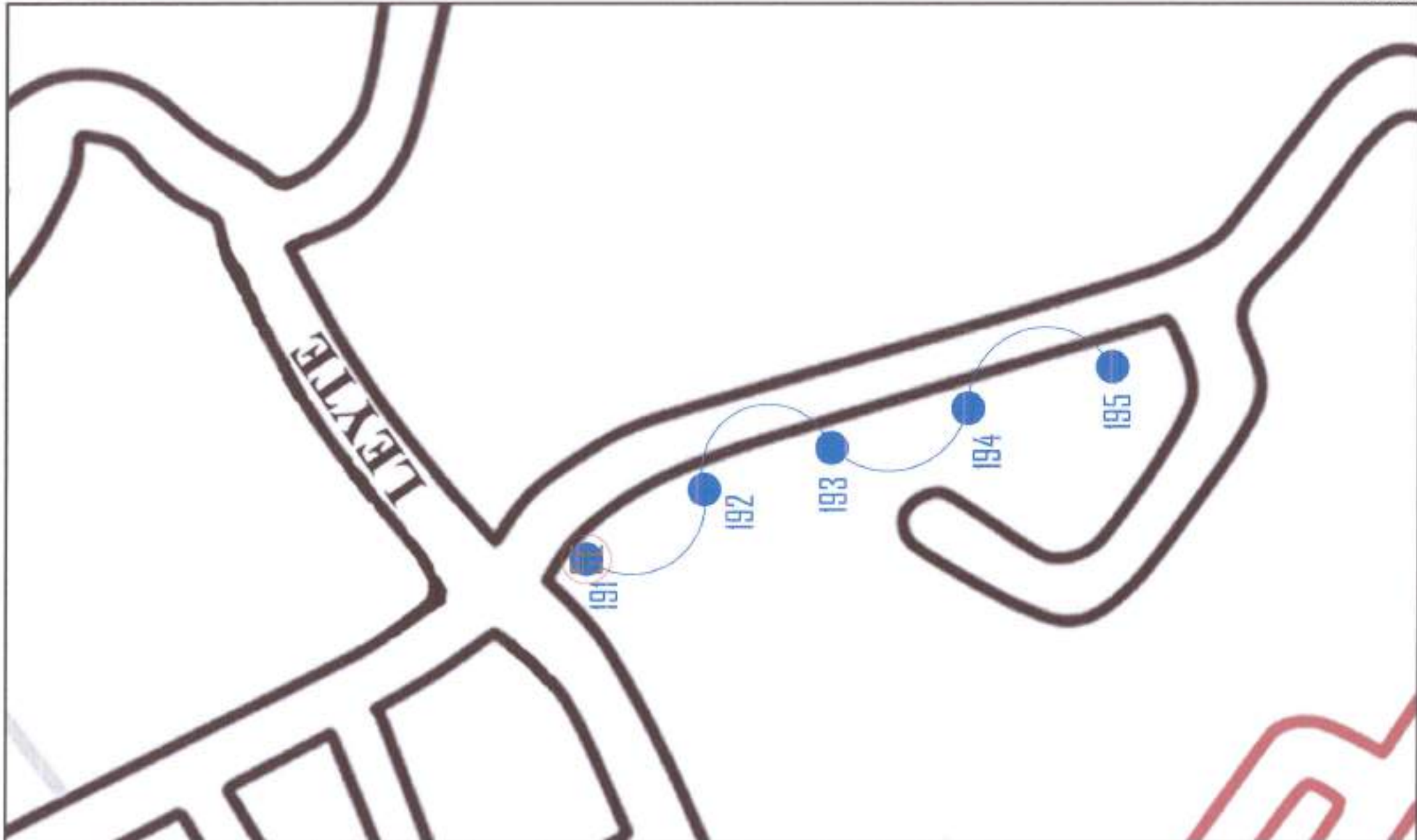
|   |   |   |  |  |   |  |                          |
|---|---|---|--|--|---|--|--------------------------|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/><b>CITY ENGINEERING DEPARTMENT</b></p> | PROJECT TITLE:  | DRAWN BY:  | SUBMITTED BY:  | RECOMMENDING APPROVAL:   | APPROVED BY:  | SHEET CONTENT:                               | SHEET NO.:               |
|   | <p><b>PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS</b></p> <p>LOCATION: BRGY. PAYATAS, DISTRICT 2, QUEZON CITY</p> | DATE:   | <br>ENGR. VEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAMMING DIVISION | <br>ENGR. GUILLERMO R. VERZOSA, JR.<br>CH. OF ELECTRICAL ENGINEERING DEPARTMENT | <br>HON. MA. JOSEFINA G. BELMONTTE<br>CITY MAYOR | <p>LIGHTING LAYOUT (SERVICE ENTRANCE 15)</p> | <p>EL-23</p> <p>2453</p> |





1 LIGHTING LAYOUT (SERVICE ENTRANCE 16)

|   |   |                    |   |   |   |                                       |           |
|---|---|--------------------|---|---|---|---------------------------------------|-----------|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/><b>CITY ENGINEERING DEPARTMENT</b></p> | PROJECT TITLE:  | DRAWN BY:          | SUBMITTED BY:   | RECOMMENDING APPROVAL:  | APPROVED BY:  | SHEET CONTENT:                        | SHEET NO. |
|   | PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:              |  |  |  | LIGHTING LAYOUT (SERVICE ENTRANCE 16) | EL-24     |
|   | LOCATION:<br>BREV. PAYATAS, DISTRICT 7, QUEZON CITY                             | CHECKED BY: J.A.M. | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAMS DIVISION                        | ENGR. ISAGANI H. VERZOSA, JR.<br>CH. ENGR., PLANNING & PROGRAMS DEPARTMENT            | HON. MA. JOSEFINA O. BELNORTE<br>CITY MARCH   | 25/53                                 |           |


**1 | LIGHTING LAYOUT (SERVICE ENTRANCE 17)**


Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE:

**PROPOSED CONSTRUCTION AND  
INSTALLATION OF STREETLIGHT  
POSTS AT BARANGAY PAYATAS**

LOCATION:

BRGY. PAYATAS, DISTRICT 2, QUEZON CITY

DRAWN BY:

DATE:

CHECKED BY:

DESIGN NAME:

SUBMITTED BY:

DATE:

CHECKED BY:

DESIGN NAME:

RECOMMENDING APPROVAL:

APPROVED BY:

SHEET CONTENT:

SHEET NO.:

LIGHTING LAYOUT  
SERVICE ENTRANCE 17

**EL-25**  
**26/53**

ENGR. LEO S. DEL ROSARIO  
HEAD, PLANNING & PROGRAMS DIVISION


ENGR. SARANI R. VERZOSA, JR.  
CH. ENGR. ENGINEERING DEPARTMENT

HON. MA. JOSEFINA G. BELMONTÉ  
CITY MAYOR






1 LIGHTING LAYOUT (SERVICE ENTRANCE 18)

|  |   |              |   |   |  |                                       |                |
|--|---|--------------|---|---|--|---------------------------------------|----------------|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:  | DATE:        | DESIGNED BY:  | RECOMMENDING APPROVAL:  | APPROVED BY:                               | SHEET CONTENT:                        | SHEET NO.:     |
|  | PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | CHECKED BY:  | ENGR. LEO S. DEL ROSARIO<br>MPLC, PLANNING & PROGRAMMING DIVISION | ENGR. ISABELA R. VERZOSA, JR.<br>OC, CIVIL ENGINEERING DEPARTMENT | HON. MA. JOSEFINA G. BELMONTE<br>CITY MAOR | LIGHTING LAYOUT (SERVICE ENTRANCE 18) | EL-26<br>27/53 |
|  | LOCATION:<br>BAR. PAYATAS, DISTRICT 2, QUEZON CITY                              | DESIGNED BY: |   |   |  |                                       |                |



1 LIGHTING LAYOUT (SERVICE ENTRANCE 19)



Republic of the Philippines  
 Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

PROJECT TITLE:  
**PROPOSED CONSTRUCTION AND  
 INSTALLATION OF STREETLIGHT  
 POSTS AT BARANGAY PAYATAS**

LOCATION:  
 BRGY. PAYATAS, DISTRICT 2, QUEZON CITY

DRAWN BY: *[Signature]*  
 DATE:  
 CHECKED BY: *[Signature]*  
 REVISION NO.:

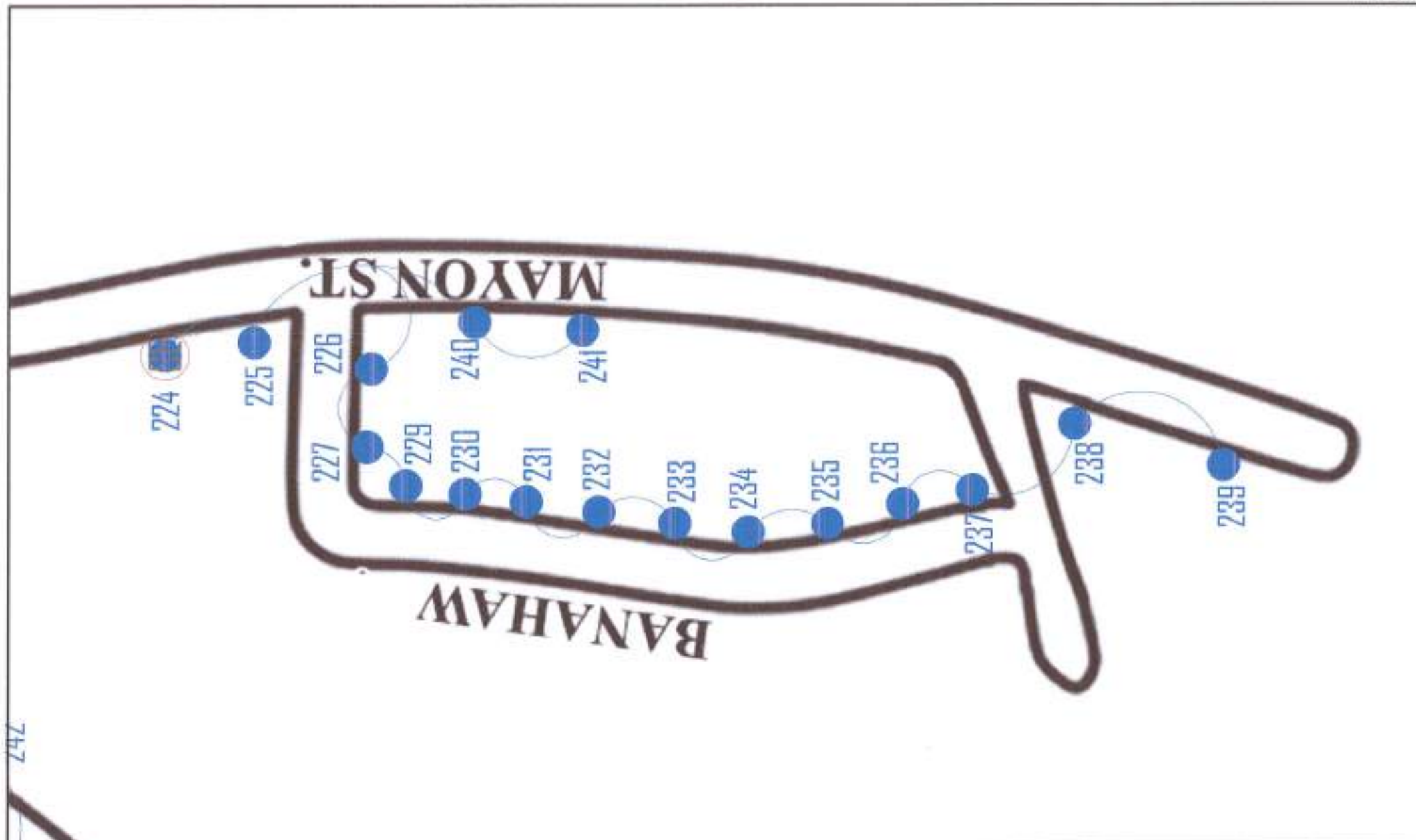
SUBMITTED BY:  
*[Signature]*  
**ENGR. LEO S. DEL ROSARIO**  
 HEAD, PLANNING AND DESIGN DIVISION

RECOMMENDED APPROVAL:  
*[Signature]*  
**ENGR. SAMAN R. VERZOSA, JR.**  
 DE. CITY ENGINEERING DEPARTMENT

APPROVED BY:  
*[Signature]*  
**HON. MA. JOSEFINA G. BELMONTÉ**  
 CITY MAOR

SHEET CONTENT:  
 LIGHTING LAYOUT  
 (SERVICE ENTRANCE 19)

SHEET NO:  
**EL-27**  
**2853**



1 LIGHTING LAYOUT (SERVICE ENTRANCE 20)

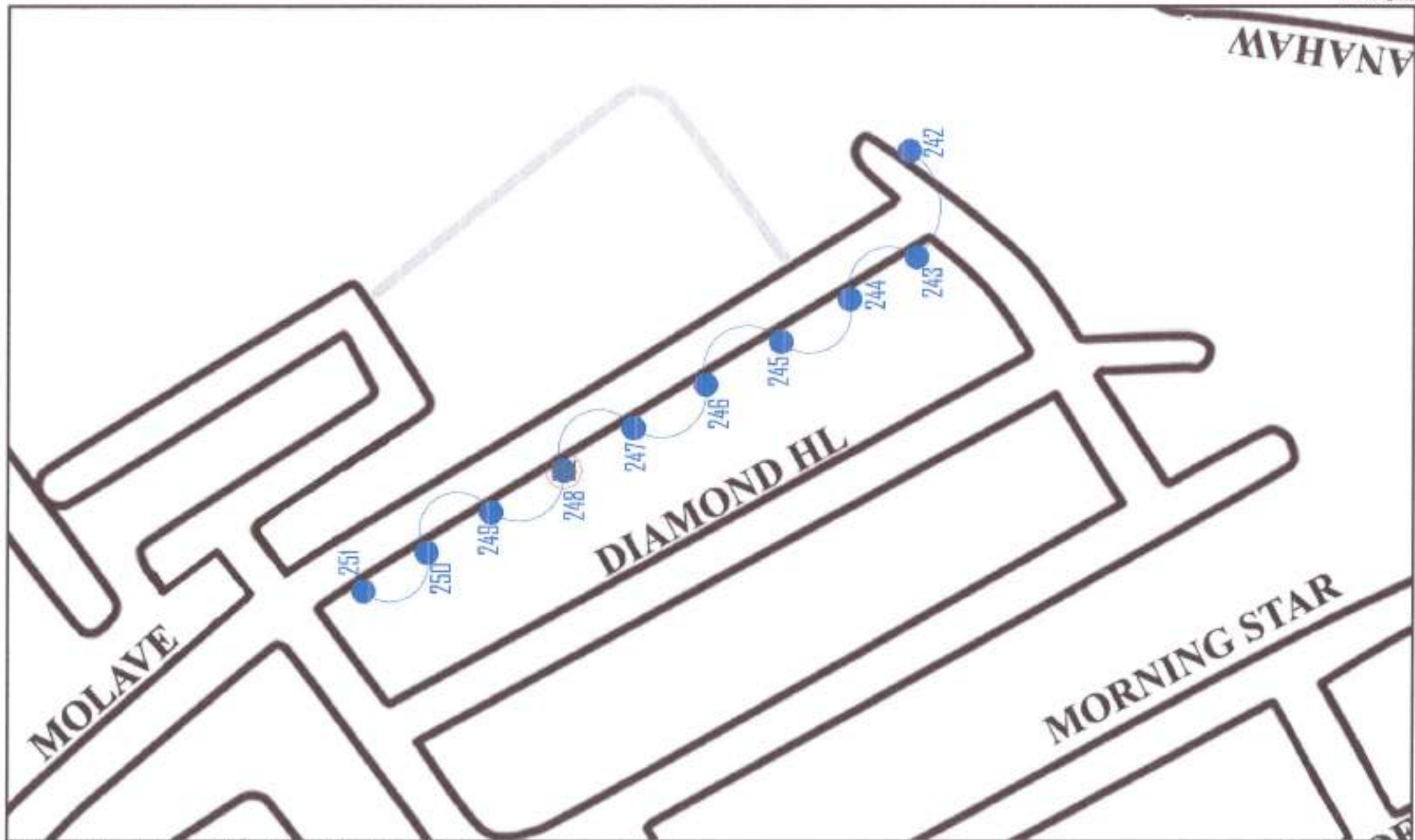


Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

|   |             |               |   |   |                                       |               |
|---|-------------|---------------|---|---|---------------------------------------|---------------|
| PROJECT TITLE:  | DRAWN BY:   | SUBMITTED BY: | REGISTERED APPROVAL:  | APPROVED BY:  | SHEET CONTENT:                        | SHEET NO.:    |
| PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:       |               |   |   | LIGHTING LAYOUT (SERVICE ENTRANCE 20) | EL-28<br>2953 |
| LOCATION:<br>BRGY. PAYATAS, DISTRICT 7, QUEZON CITY                             | CHECKED BY: | PERSONNEL:    | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING PROGRAM DIVISION | ENGR. SAMANI N. VERZOSA, JR.<br>OC, CIV. ENGINEERING DIVISION |                                       |               |



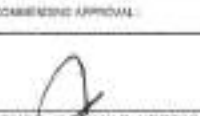



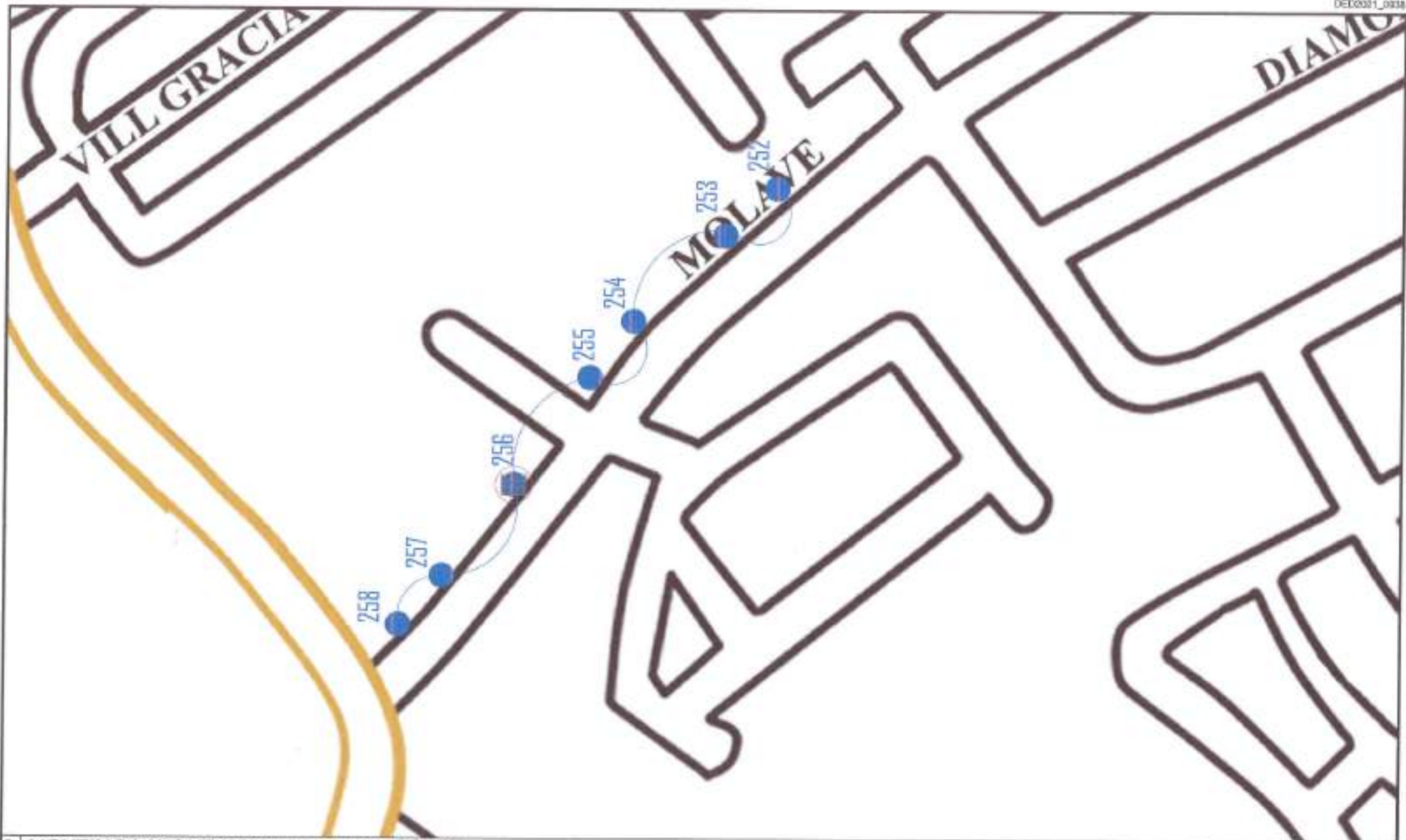
ANAHAW




1 | LIGHTING LAYOUT (SERVICE ENTRANCE 21)

SCALE: NTS

|  |   |                    |   |   |   |                                       |            |
|--|---|--------------------|---|---|---|---------------------------------------|------------|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:  | DRAWN BY:          | SUBMITTED BY:   | RECOMMENDING APPROVAL:  | APPROVED BY:  | SHEET CONTENT:                        | SHEET NO.: |
|  | PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:              |  |  |  | LIGHTING LAYOUT (SERVICE ENTRANCE 21) | EL-29      |
|  | LOCATION:<br>BAGY. PAYATAS, DISTRICT 2, QUEZON CITY                             | CHECKED BY: J.A.M. | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAMS DIVISION                        | ENGR. ROGANI R. VERZOSA, JR.<br>CIC, CITY ENGINEERING DEPARTMENT                      | HON. MA. JOSEFINA G. BELMONTE<br>CITY MAJOR   |                                       | 30/53      |



1 LIGHTING LAYOUT (SERVICE ENTRANCE 22)



Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

|  |
|--|
| PROJECT TITLE:<br><b>PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS</b> |
| LOCATION:<br>BRGY. PAYATAS, DISTRICT 2, 09050010 CITY  |

|                                    |
|------------------------------------|
| DESIGNED BY:<br><i>[Signature]</i> |
| DATE:                              |
| CHECKED BY: J.A.N.                 |
| REVISION NO.:                      |

|   |
|---|
| PERMITTED BY:<br><i>[Signature]</i><br>ENGR. LEO S. DEL ROSARIO<br>(HEAD, PLANNING & PROGRAMS DIVISION) |
|---|

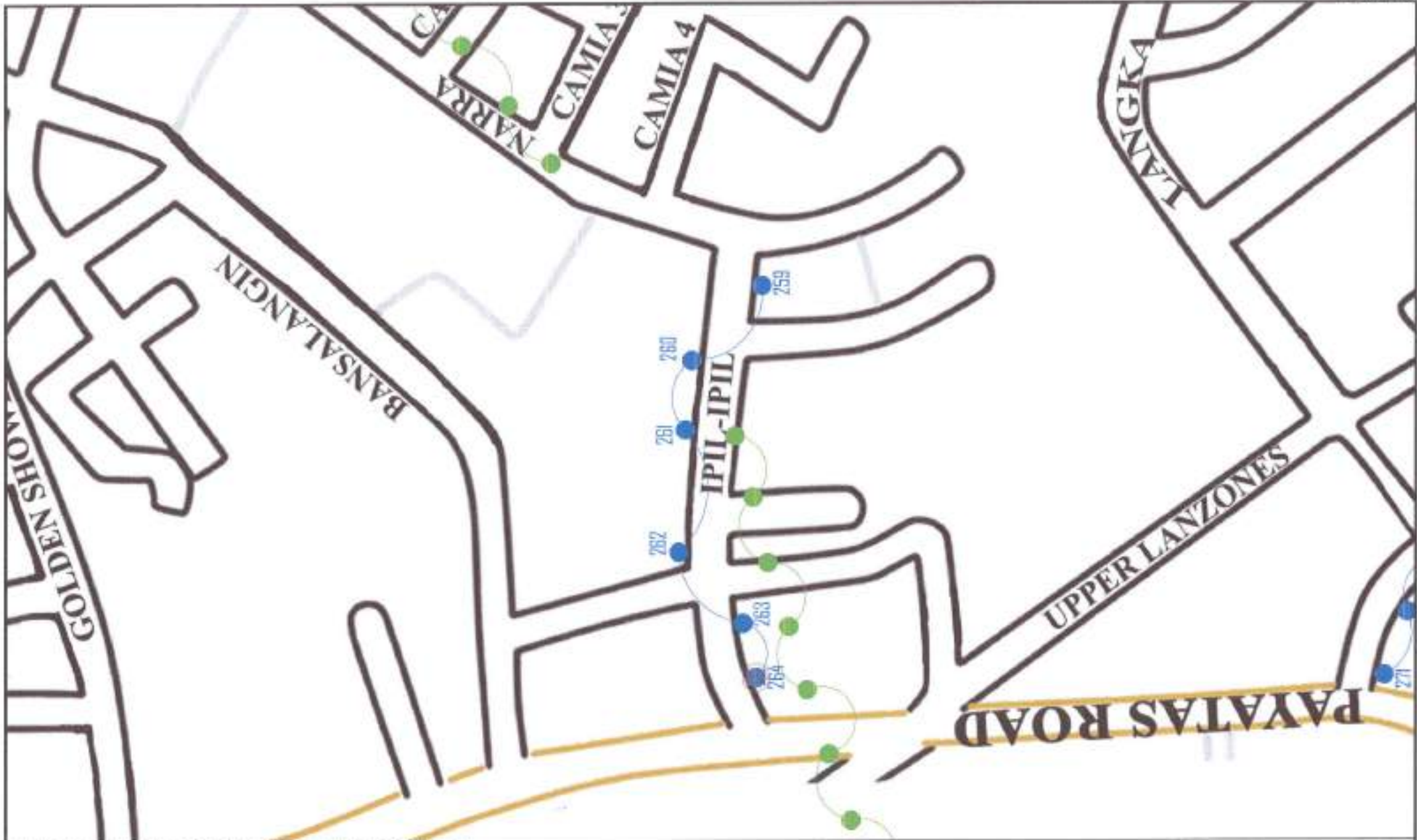
|   |
|---|
| RECOMMENDED APPROVAL:<br><i>[Signature]</i><br>ENGR. ISAGANI R. VERZOSA, JR.<br>(CITY ENGINEERING DEPARTMENT) |
|---|

|   |
|---|
| APPROVED BY:<br><i>[Signature]</i><br>HON. MA. JOSEFIA G. BELMONTE<br>CITY MAOR |
|---|


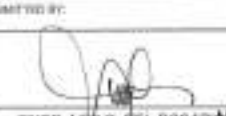

|   |
|---|
| SHEET CONTENT:<br>LIGHTING LAYOUT (SERVICE ENTRANCE 22) |
|---|

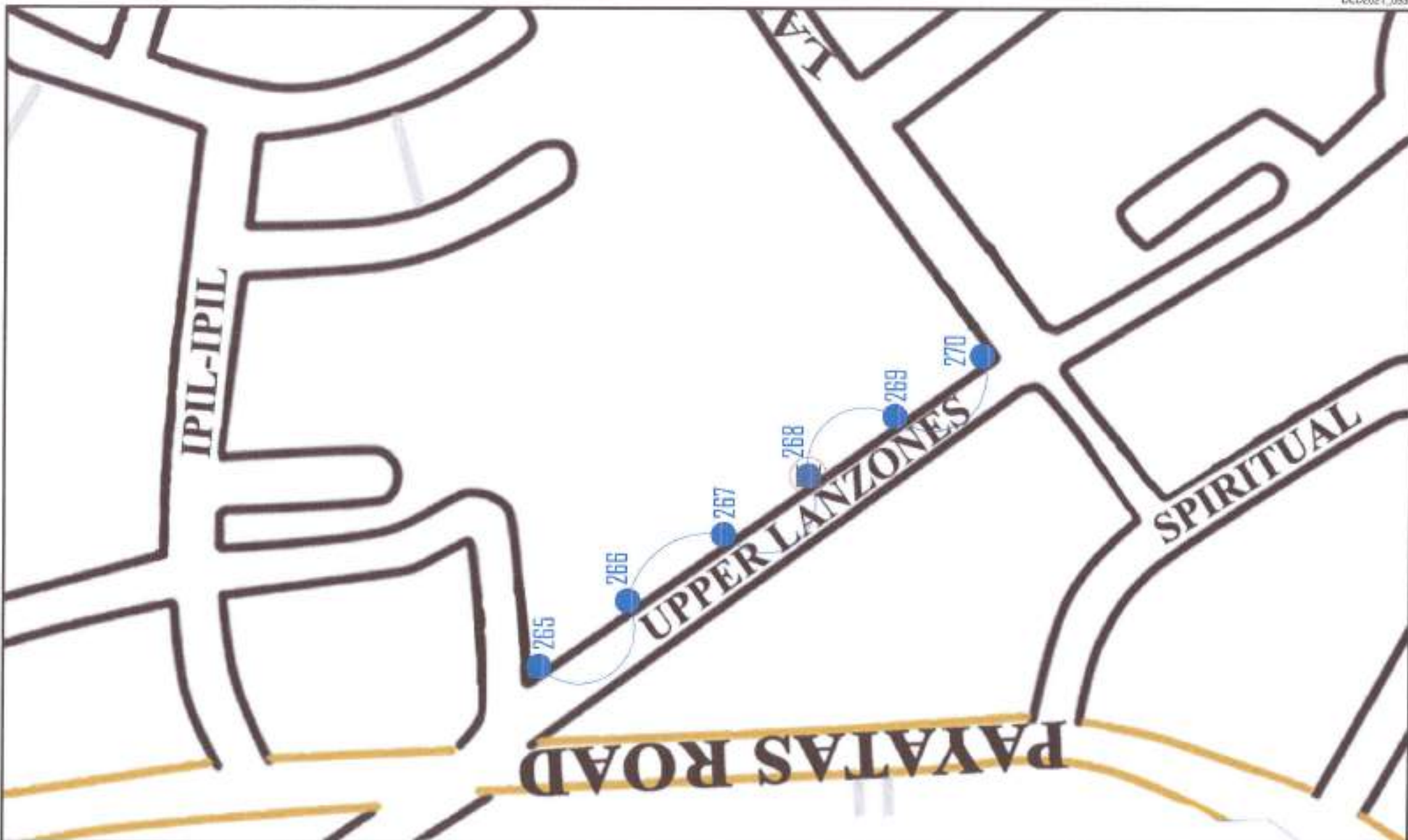
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|-----------------------------|
| SHEET NO.<br>EL-30<br>31/53 |
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1 | LIGHTING LAYOUT (SERVICE ENTRANCE 23)

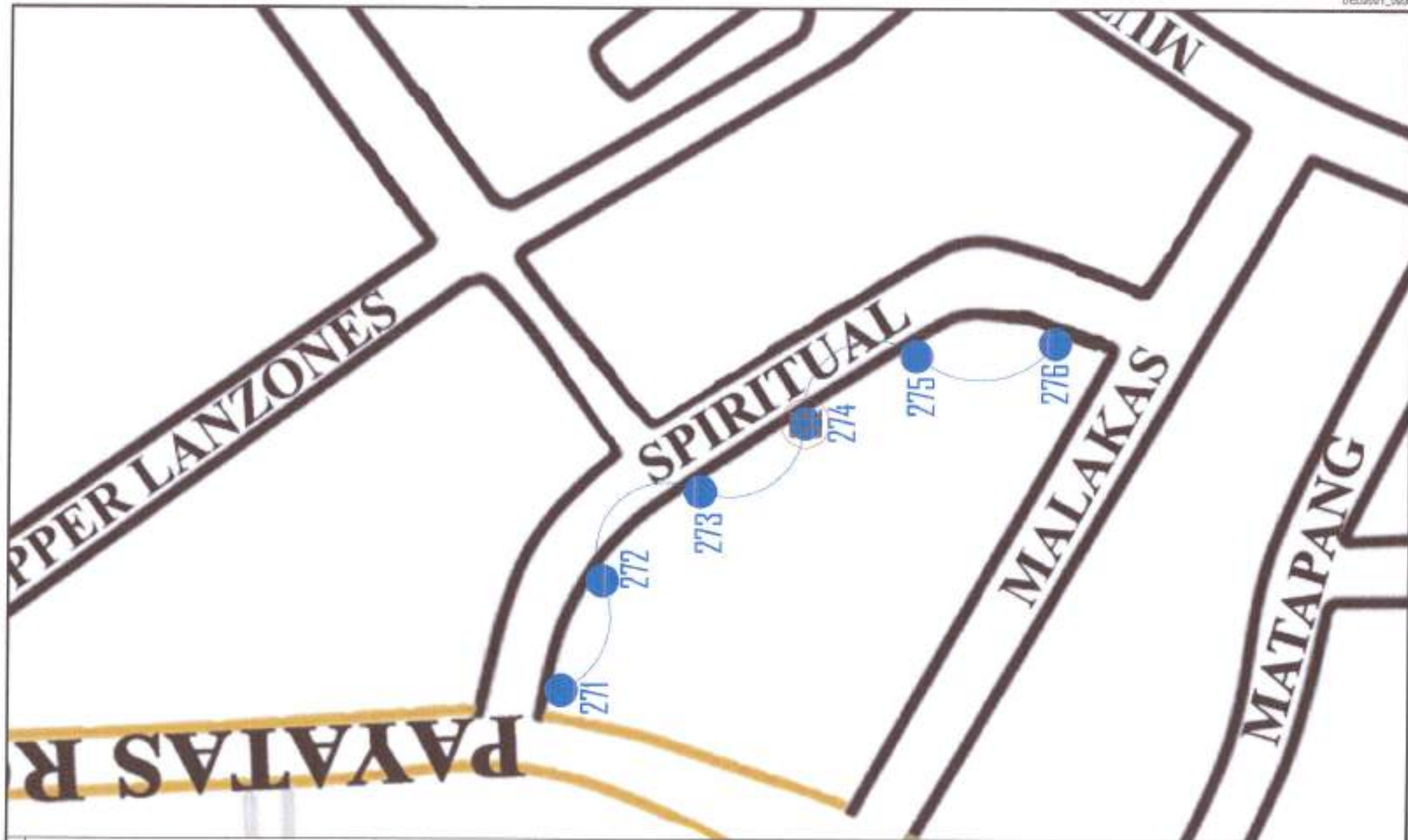
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|--|---|---|---|--|--|--------------------------|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:  | DESIGNED BY:  | RECOMMENDED APPROVAL:   | APPROVED BY:   | SHEET CONTENT:                               | SHEET NO.:               |
|  | <p><b>PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS</b></p> | <p>DATE:</p> <p>CHECKED BY: LAN</p> <p>DESIGNED BY: </p> <p>ENGR. LEO S. DEL ROSARIO<br/>HEAD, PLANNING &amp; PROGRAMMING DIVISION</p> | <p></p> <p>ENGR. ISAGANI R. VERZOSA, JR.<br/>CITY ENGINEERING DEPARTMENT</p> | <p></p> <p>HON. MA. JOSEFINA B. BELMONTE<br/>CITY MAYOR</p> | <p>LIGHTING LAYOUT (SERVICE ENTRANCE 23)</p> | <p>EL-31</p> <p>3253</p> |
|  | LOCATION:   | REVISION NO.:   |   |  |  |                          |



1 LIGHTING LAYOUT (SERVICE ENTRANCE 24)

|  |   |   |   |  |                    |                |  |
|--|---|---|---|--|--------------------|----------------|--|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:  | DRAWN BY: <i>[Signature]</i>                                  | SUBMITTED BY:   | RECOMMENDING OFFICIAL:                     | APPROVED BY:       | SHEET CONTENT: | SHEET NO.:                               |
|  | PROPOSED CONSTRUCTION AND<br>INSTALLATION OF STREETLIGHT<br>POSTS AT BARANGAY PAYATAS | DATE:   | <i>[Signature]</i>  | <i>[Signature]</i>                         | <i>[Signature]</i> |                | LIGHTING LAYOUT<br>(SERVICE ENTRANCE 24) |
| LOCATION:<br>BRGY. PAYATAS, DISTRICT 2, QUEZON CITY  | REVISION NO.:   | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAM DIVISION | ENGR. GABRIEL R. VERZOSA, JR.<br>CH. CITY ENGINEER'S OFFICE | HON. MA. JOSEFINA G. BELMONTE<br>CITY MGR. |                    |                |  |





1 | LIGHTING LAYOUT (SERVICE ENTRANCE 25)



Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:  
**PROPOSED CONSTRUCTION AND  
INSTALLATION OF STREETLIGHT  
POSTS AT BARANGAY PAYATAS**

LOCATION:  
BAR. PAYATAS, DISTRICT 2, QUEZON CITY

DATE: \_\_\_\_\_  
CREATED BY: J.A.M.  
REVISION NO: \_\_\_\_\_

SUBMITTED BY:  
  
ENGR. LEO S. BEL ROSANO  
HEAD, CIVIL ENGINEERING DIVISION

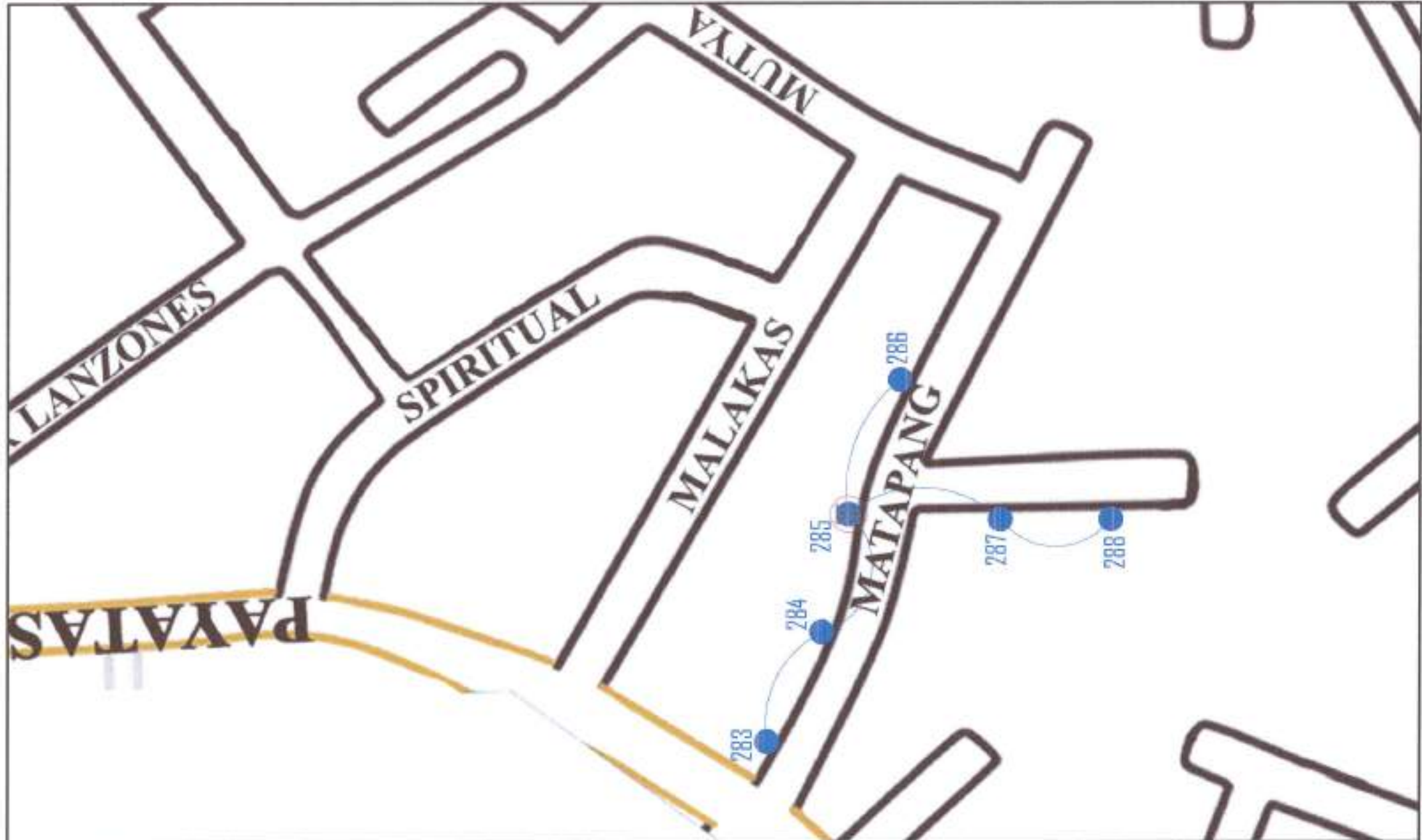
RECOMMENDATION APPROVAL:  
  
ENGR. SALVADOR H. VERZOSA, JR.  
SEC. CITY ENGINEERING DEPARTMENT

APPROVED BY:  
  
HON. MA. JOSEFINA G. BELMONTE  
CITY MAYOR


SHEET CONTENT:  
LIGHTING LAYOUT  
(SERVICE ENTRANCE 25)

SHEET NO:  
EL-33  
34/53





1 LIGHTING LAYOUT (SERVICE ENTRANCE 26)

|   |   |                              |   |   |  |                                     |            |
|---|---|------------------------------|---|---|--|-------------------------------------|------------|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/><b>CITY ENGINEERING DEPARTMENT</b></p> | PROJECT TITLE:  | DRAWN BY: <i>[Signature]</i> | SUBMITTED BY:   | RECOMMENDING OFFICIAL:  | APPROVED BY:                                   | SHEET DESIGN:                       | SHEET NO.: |
|   | PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:                        | <i>[Signature]</i>  | <i>[Signature]</i>  |  | STREET LAYOUT (SERVICE ENTRANCE 26) | EL-34      |
|   | LOCATION:<br>BRGY. PAYATAS, DISTRICT 2, QUEZON CITY                             | CHECKED BY: JAH              | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAMMING DIVISION | ENGR. ISAGANI R. VERZOSA, JR.<br>D.C. CITY ENGINEERING DEPARTMENT | HON. NA. JOSEFINA O. BELMONTÉ<br>CITY ENGINEER |                                     | 35/53      |



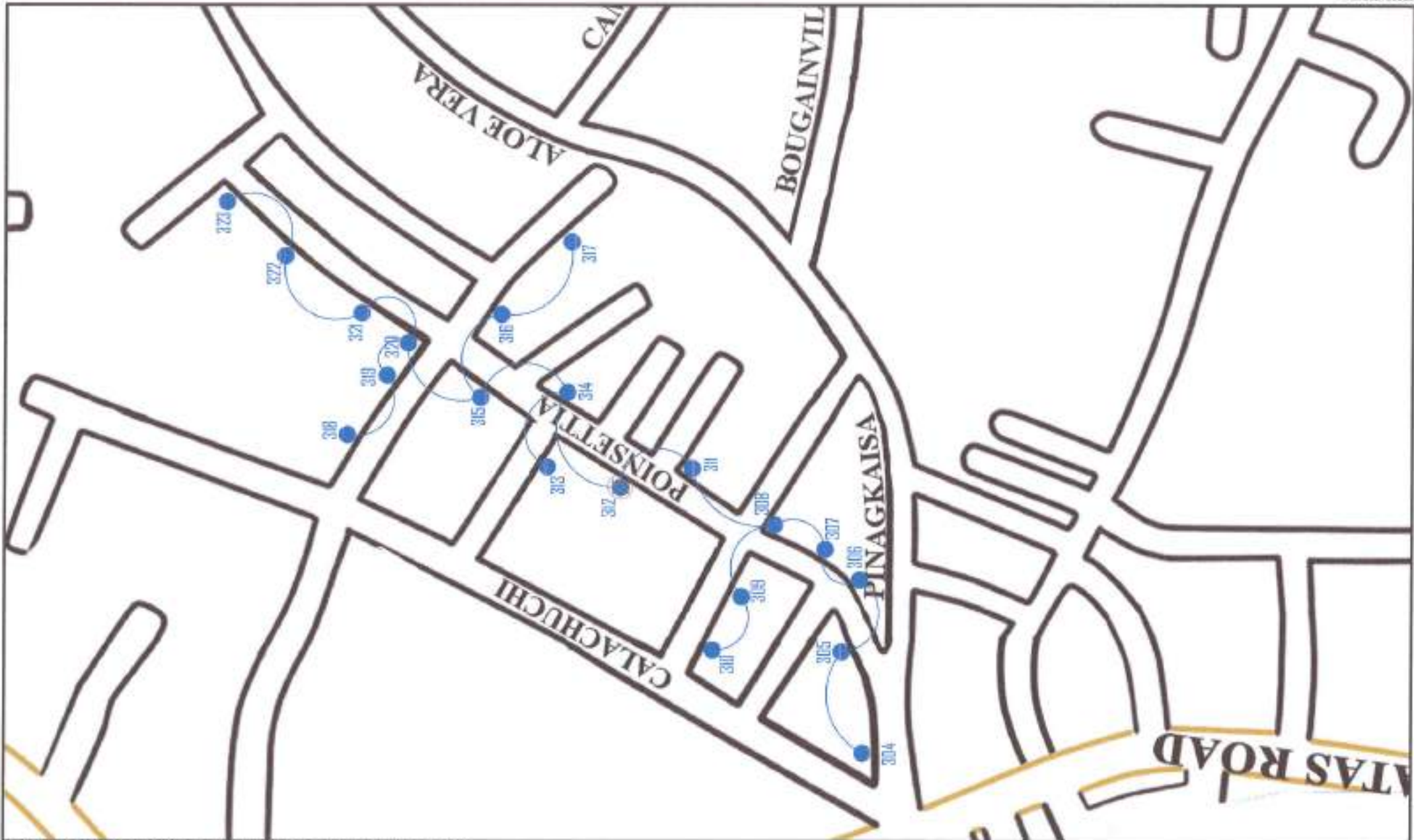
### 1 LIGHTING LAYOUT (SERVICE ENTRANCE 27)




Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

| PROJECT TITLE:   | DRAWN BY:          | SUBMITTED BY:  | RECOMMENDING APPROVAL:  | APPROVED BY:                               | SHEET CONTENT:                        | SHEET NO.: |
|--|--------------------|--|---|--|---------------------------------------|------------|
| PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS, | DATE:              |  |   |  | LIGHTING LAYOUT (SERVICE ENTRANCE 27) | EL-35      |
| LOCATION:<br>DIST. PAYATAS, DISTRICT 2, QUEZON CITY                              | CHECKED BY: J.A.K. | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAMS DIVISION | ENGR. ISIDRO R. VERZOSA, JR.<br>OC, CITY ENGINEERING DEPARTMENT | HON. MA. JOSEPHA G. BELMONTE<br>CITY MAYOR |                                       | 36/53      |
|  | REVISIONS:         |  |   |  |                                       |            |




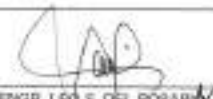



1 LIGHTING LAYOUT (SERVICE ENTRANCE 28)

|   |   |   |  |   |  |  |   |
|---|---|---|--|---|--|--|---|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/><b>CITY ENGINEERING DEPARTMENT</b></p> | <p>PROJECT TITLE:</p> <p><b>PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS</b></p> | <p>DATE:</p> <p>CHECKED BY: <i>[Signature]</i></p> <p>DESIGNED BY: <i>[Signature]</i></p> | <p>SUBMITTED BY:</p> <p><i>[Signature]</i></p> <p>ENGR. LEO S. DEL ROSARIO<br/>HEAD, PLANNING PROGRAMMING DIVISION</p> | <p>RECOMMENDING OFFICER:</p> <p><i>[Signature]</i></p> <p>ENGR. IRAGANI R. VERZOSA, JR.<br/>DC, CITY ENGINEERING DEPARTMENT</p> | <p>APPROVED BY:</p> <p><i>[Signature]</i></p> <p>HON. NA. JOSEFINA G. BELMONTE<br/>CITY MAOR</p> | <p>SHEET CONTENT:</p> <p>LIGHTING LAYOUT (SERVICE ENTRANCE 28)</p> | <p>SHEET NO.</p> <p><b>EL-36</b><br/><b>37/53</b></p> |
|   | <p>LOCATION:</p> <p>BARAY PAYATAS DISTRICT 2, QUEZON CITY</p>   | <p>REVISIONS:</p>   |  |   |  |  |   |



1 LIGHTING LAYOUT (SERVICE ENTRANCE 29)

|  |   |   |  |   |   |   |                          |
|--|---|---|--|---|---|---|--------------------------|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:  | DRAWN BY:   | SUBMITTED BY:  | RECOMMENDING APPROVAL:  | APPROVED BY:  | SHEET CONTENT:  | SHEET NO.:               |
|  | <p><b>PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS</b></p> <p>LOCATION:<br/>BRGY. PAYATAS, DISTRICT 2, QUEZON CITY</p> | <p>DATE:</p> <p>CHECKED BY: JAN</p> <p>REVISION(S):</p> |  <p>ENGR. LEO S. DEL ROSARIO<br/>HEAD, PLANNING AND DESIGN DIVISION</p> |  <p>ENGR. JESSAM R. VERZOSA, JR.<br/>DEPT. CITY ENGINEERING DEPARTMENT</p> |  <p>HON. MA. JOSEPHA G. BELMONTE<br/>CITY ENGINEER</p> | <p>SHEET CONTENT</p> <p>LIGHTING LAYOUT (SERVICE ENTRANCE 29)</p> | <p>EL-37</p> <p>3853</p> |





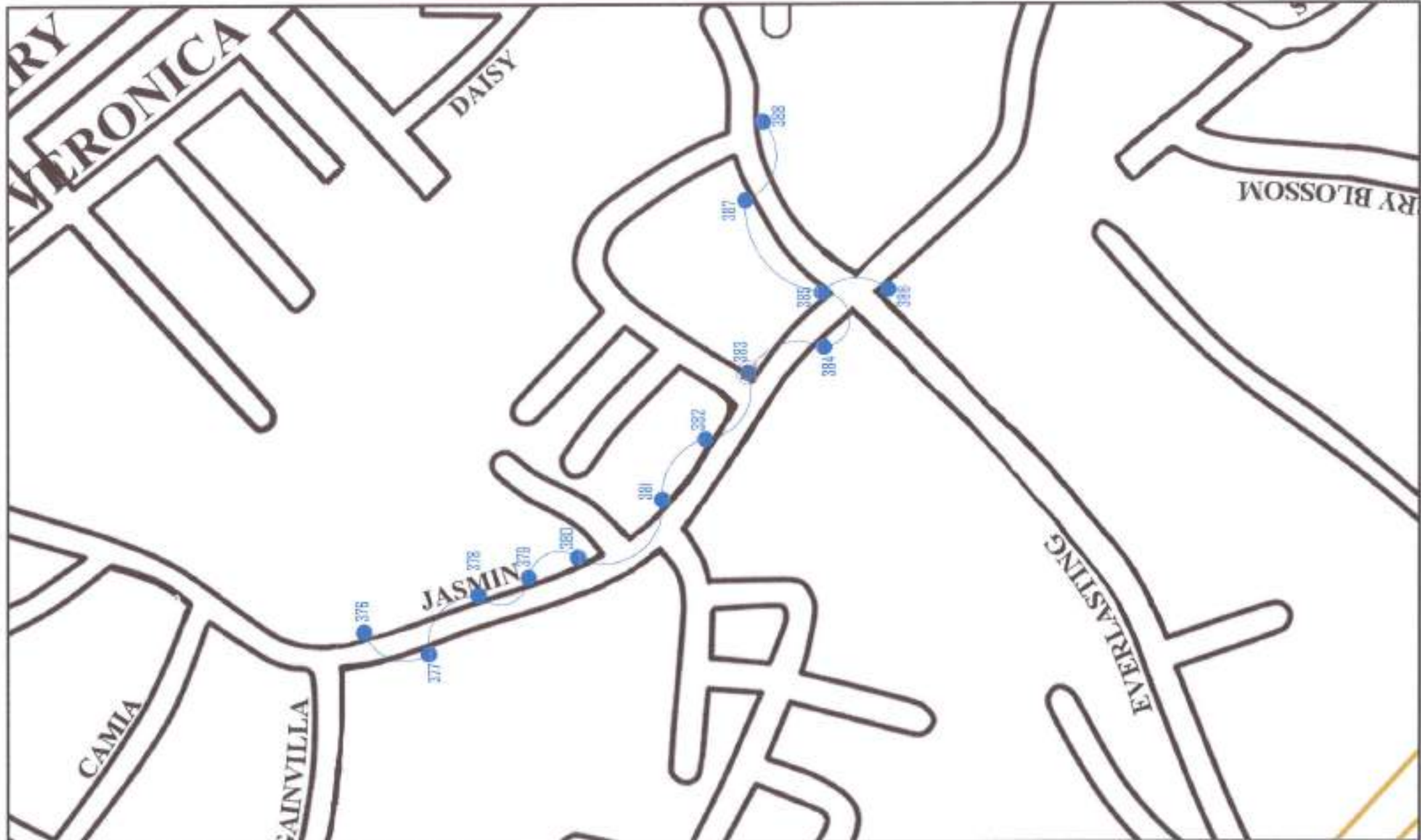
**1 LIGHTING LAYOUT (SERVICE ENTRANCE 30)**



Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**


|  |   |   |   |  |   |                                     |
|--|---|---|---|--|---|-------------------------------------|
| PROJECT TITLE:<br><b>PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS</b> | DRAWN BY:<br><i>[Signature]</i>         | SUBMITTED BY:<br><i>[Signature]</i>                               | RECOMMENDED APPROVAL:<br><i>[Signature]</i>                       | APPROVED BY:<br><i>[Signature]</i>           | SHEET CONTENT:<br>LIGHTING LAYOUT (SERVICE ENTRANCE 30) | SHEET NO.<br><b>EL-38<br/>39/53</b> |
| LOCATION:<br>BRGY. PAYATAS, DISTRICT #, QUEZON CITY  | DATE:<br>CHECKED BY: <i>[Signature]</i> | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAMMING DIVISION | ENGR. RICHARD H. VERZOSA, JR.<br>C.E. CITY ENGINEERING DEPARTMENT | HON. MA. JOSEFINA G. BELMONTTE<br>CITY MAYOR |   |                                     |

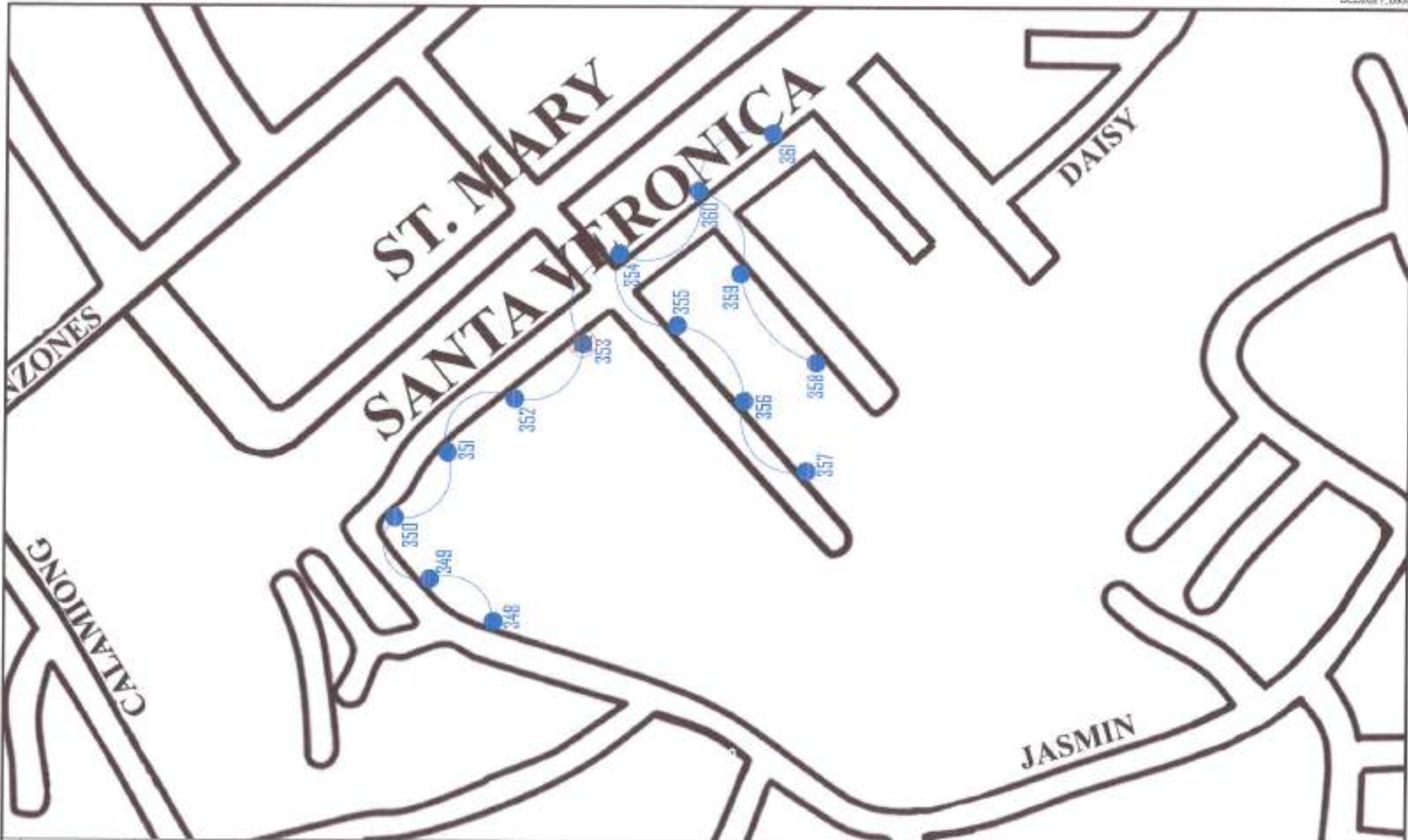





1 LIGHTING LAYOUT (SERVICE ENTRANCE 31)

SCALE: NTS

|  |   |            |              |  |  |  |                                      |               |
|--|---|------------|--------------|--|--|--|--------------------------------------|---------------|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:  | DRAWN BY:  | DESIGNED BY: | RECOMMENDING AGENCY:   | APPROVED BY:   | SHEET CONTENT:                             | SHEET NO.                            |               |
|  | PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:      | CHECKED BY:  | ENGR. LEON S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAMMING DIVISION | ENGR. SUSAN R. VERZOSA, JR.<br>CC, CITY ENGINEERING DEPARTMENT | HON. NA. JOSEFRA B. BELMONTI<br>CITY MAYOR | LEADING LAYOUT (SERVICE ENTRANCE 31) | EL-39<br>4053 |
|  | LOCATION:<br>BRGY. PAYATAS, DISTRICT 2, QUEZON CITY                             | REVISIONS: |              |  |  |  |                                      |               |




1 LIGHTING LAYOUT (SERVICE ENTRANCE 32)

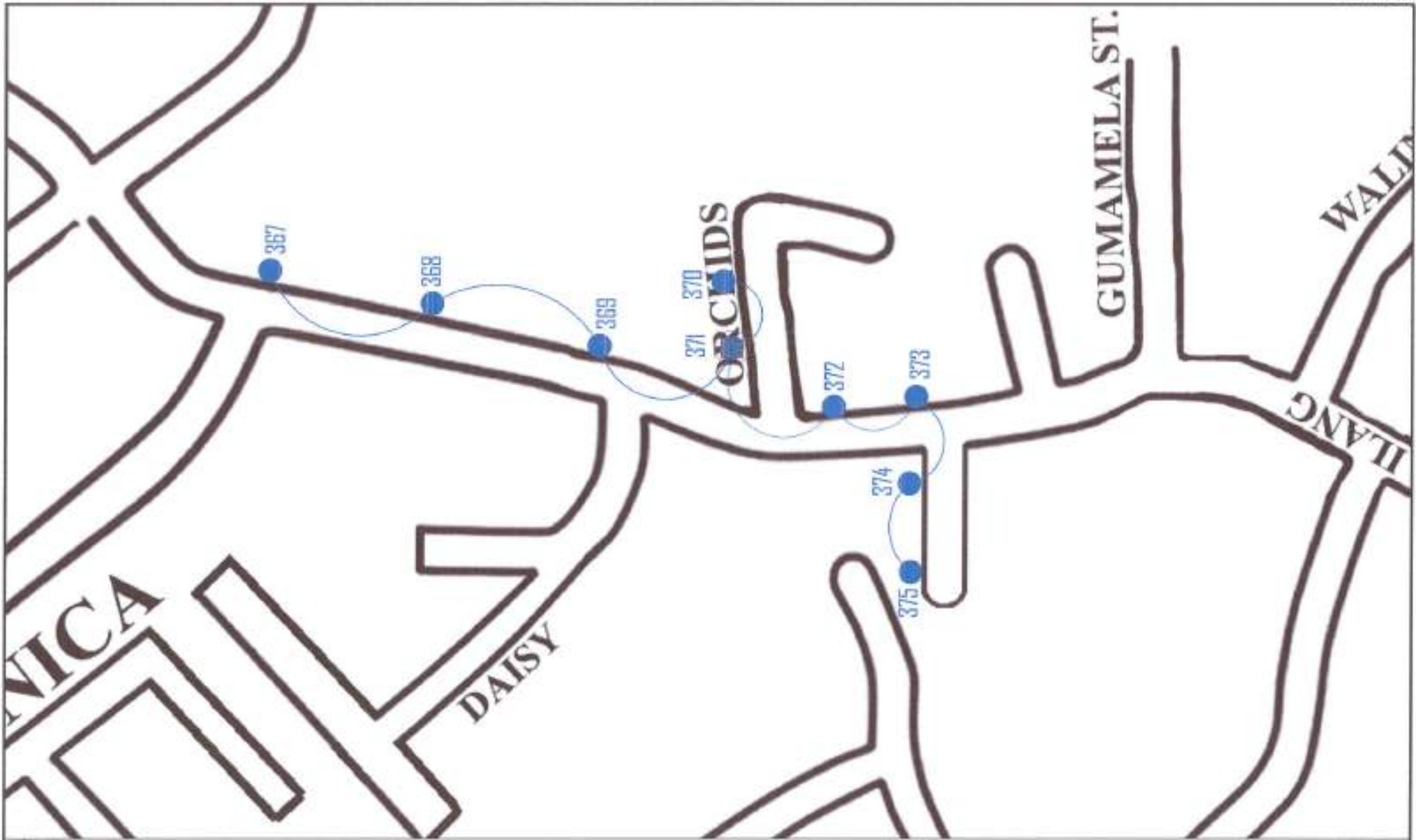
|  |   |             |   |   |  |  |                             |       |
|--|---|-------------|---|---|--|--|-----------------------------|-------|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:  | DATE:       | DRAWN BY:   | SUBMITTED BY:   | RECOMMENDED APPROVAL:                          | APPROVED BY:   | DRAWN BY:                   | DATE: |
|  | PROPOSED CONSTRUCTION AND<br>INSTALLATION OF STREETLIGHT<br>POSTS AT BARANGAY PAYATAS | CHECKED BY: | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAMMING DIVISION | ENGR. SAMANTHA R. VERZOSA, JR.<br>CITY ENGINEERING DEPARTMENT | MON. MA. JOSEFINA O. BELMONTE<br>CITY ENGINEER | SHEET NO.:<br>LIGHTING LAYOUT<br>(SERVICE ENTRANCE 32) | SHEET NO.:<br>EL-40<br>4153 |       |
| LOCATION:<br>BAR. PAYATAS DISTRICT 2, QUEZON CITY  | REVISIONS:  |             |   |   |  |  |                             |       |






## 1 LIGHTING LAYOUT (SERVICE ENTRANCE 33)

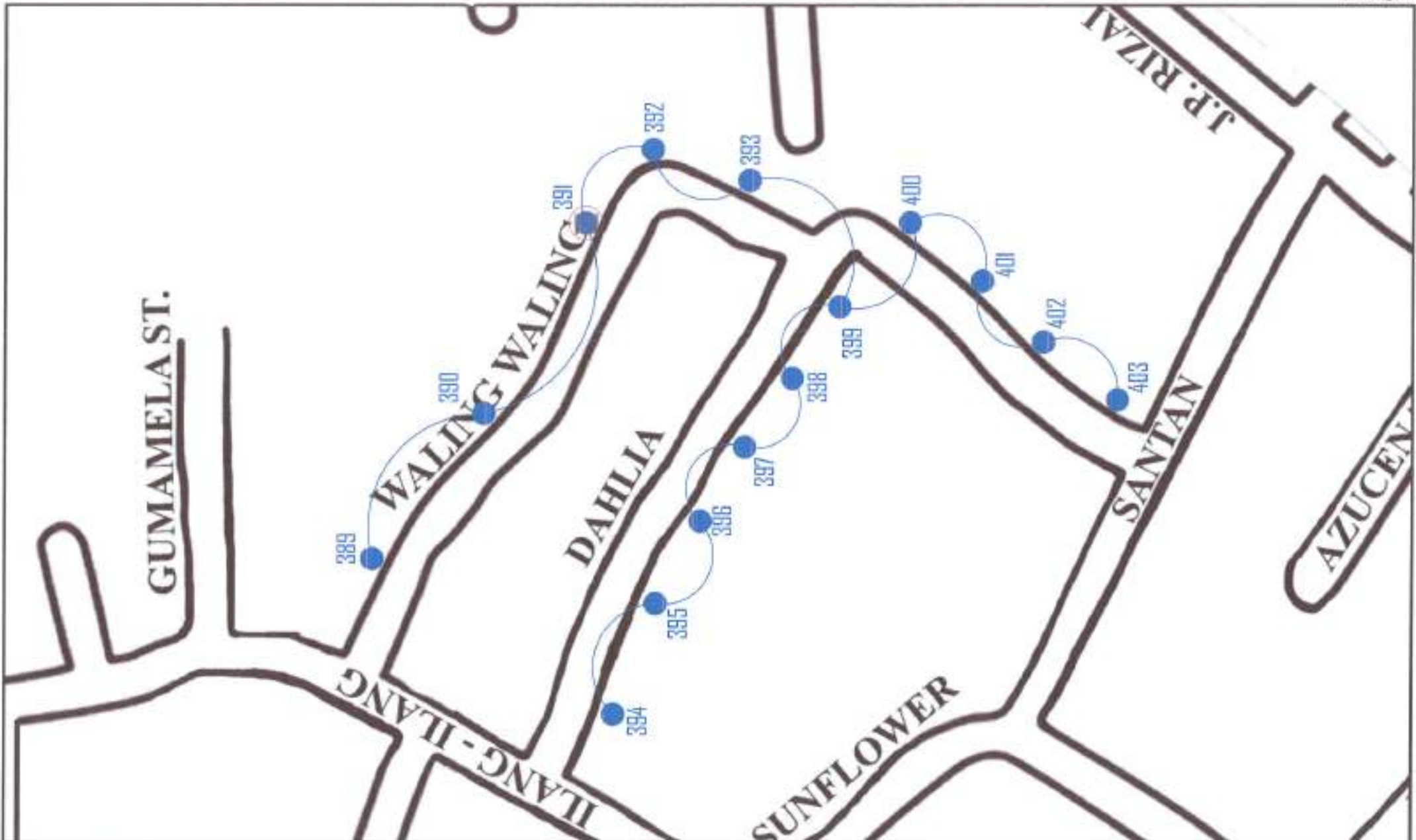
|  |  |                              |  |  |   |                |  |
|--|--|------------------------------|--|--|---|----------------|--|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:   | DRAWN BY: <i>[Signature]</i> | SUBMITTED BY:  | RECOMMENDING APPROVAL:   | APPROVED BY:                                      | SHEET CONTENT: | SHEET NO.:                               |
|  | <b>PROPOSED CONSTRUCTION AND<br/>INSTALLATION OF STREETLIGHT<br/>POSTS AT BARANGAY PAYATAS</b> | DATE:                        | <i>[Signature]</i>   | <i>[Signature]</i>   | <i>[Signature]</i>                                |                | LIGHTING LAYOUT<br>(SERVICE ENTRANCE 33) |
| LOCATION:<br>BNGY. PAYATAS, DISTRICT 6, QUEZON CITY  | DESIGNED BY: <i>[Signature]</i>  | REASON NO.:                  | <b>ENGR. LEO S. DEL ROSARIO</b><br>HEAD, PLANNING PROGRAM DIVISION | <b>ENGR. ISABIAN R. VERZOSA, JR.</b><br>CH. OF PLANNING DEPARTMENT | <b>HON. MA. JOSEFINA G. BELMONTE</b><br>CITY MAOR |                |  |



1 LIGHTING LAYOUT (SERVICE ENTRANCE 34)

|   |   |   |   |   |   |  |  |
|---|---|---|---|---|---|--|--|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/><b>CITY ENGINEERING DEPARTMENT</b></p> | <p>PROJECT TITLE:</p> <p><b>PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS</b></p> | <p>DRAWN BY: <i>[Signature]</i></p> <p>DATE:</p> <p>CHECKED BY: JAN</p> <p>REVISION(S):</p> | <p>SUBMITTED BY:</p> <p><i>[Signature]</i></p> <p><b>ENGR. LED S. DEL ROSARIO</b><br/>HEAD, PLANNING PROGRAMMING DIVISION</p> | <p>RECOMMENDING OFFICIAL:</p> <p><i>[Signature]</i></p> <p><b>ENGR. HAZRAN R. VERZOSA, JR.</b><br/>DEP. CITY ENGINEERING DEPARTMENT</p> | <p>APPROVED BY:</p> <p><i>[Signature]</i></p> <p><b>HON. NA. JOSEFINA O. BELMONTTE</b><br/>CITY MAYOR</p> | <p>SHEET CONTENT:</p> <p>LIGHTING LAYOUT (SERVICE ENTRANCE 34)</p> | <p>SHEET NO.:</p> <p><b>EL-42</b><br/><b>43/53</b></p> |
|   | <p>LOCATION:</p> <p><b>BRGY. PAYATAS, DISTRICT 2, QUEZON CITY</b></p>   |   |   |   |   |  |  |

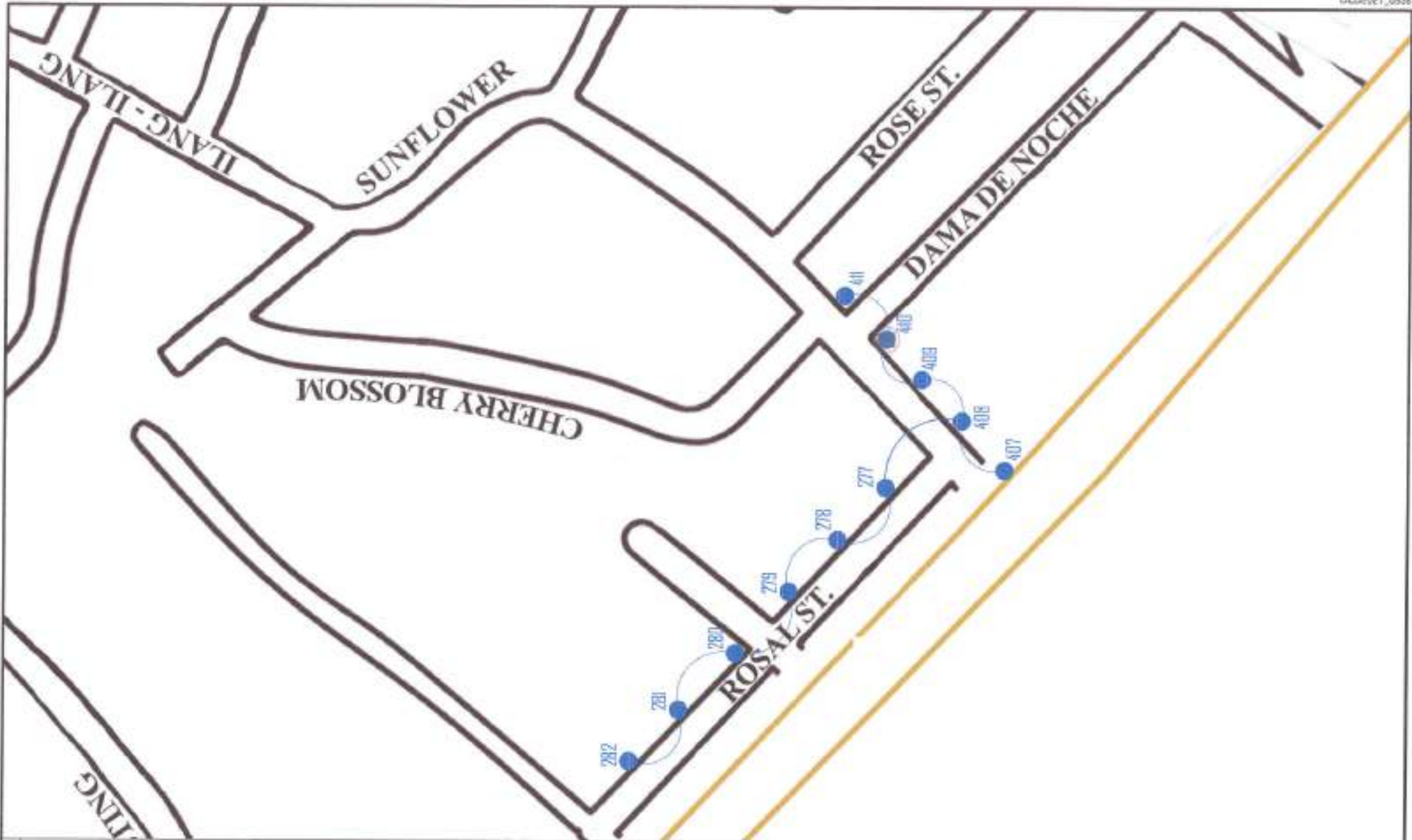




1 LIGHTING LAYOUT (SERVICE ENTRANCE 35)

|  |   |                    |   |   |   |                                       |            |
|--|---|--------------------|---|---|---|---------------------------------------|------------|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:  | DRAWN BY:          | SUBMITTED BY:   | RECOMMENDING APPROVAL:  | APPROVED BY:  | SHEET CONTENT:                        | SHEET NO.: |
|  | PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:              |  |  |  | LIGHTING LAYOUT (SERVICE ENTRANCE 35) | EL-43      |
|  | LOCATION:<br>BRT, PAYATAS DISTRICT 2, QUEZON CITY                               | CHECKED BY: J.E.M. | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAM DIVISION                         | ENGR. SAMANIR, VERZOSA, JR.<br>CITY ENGINEERING DEPARTMENT                            | HOW, MA, JOSEFINA G. BELMONTE<br>CITY MARCH   | 44/53                                 |            |





1 LIGHTING LAYOUT (SERVICE ENTRANCE 36)



Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

|  |                                 |                         |   |  |  |  |                             |
|--|---------------------------------|-------------------------|---|--|--|--|-----------------------------|
| PROJECT TITLE:<br><b>PROPOSED CONSTRUCTION AND<br/>INSTALLATION OF STREETLIGHT<br/>POSTS AT BARANGAY PAYATAS</b> | DATE:<br>CHECKED BY: <i>LJK</i> | DESIGNED BY: <i>PRM</i> | SUBMITTED BY:<br><i>[Signature]</i><br>ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAMS DIVISION | RECOMMENDING APPROVAL:<br><i>[Signature]</i><br>ENGR. MORGAN R. VERZOSA, JR.<br>DCL, CITY ENGINEERING DEPARTMENT | APPROVED BY:<br><i>[Signature]</i><br>HON. MA. JOSEFINA S. BELMONTE<br>CITY ENGINEER | SHEET CONTENT:<br>LIGHTING LAYOUT<br>(SERVICE ENTRANCE 36) | SHEET NO:<br>EL-44<br>45/53 |
| LOCATION:<br>BAR. PAYATAS, DISTRICT 2, QUEZON CITY   | REVISIONS:                      |                         |   |  |  |  |                             |



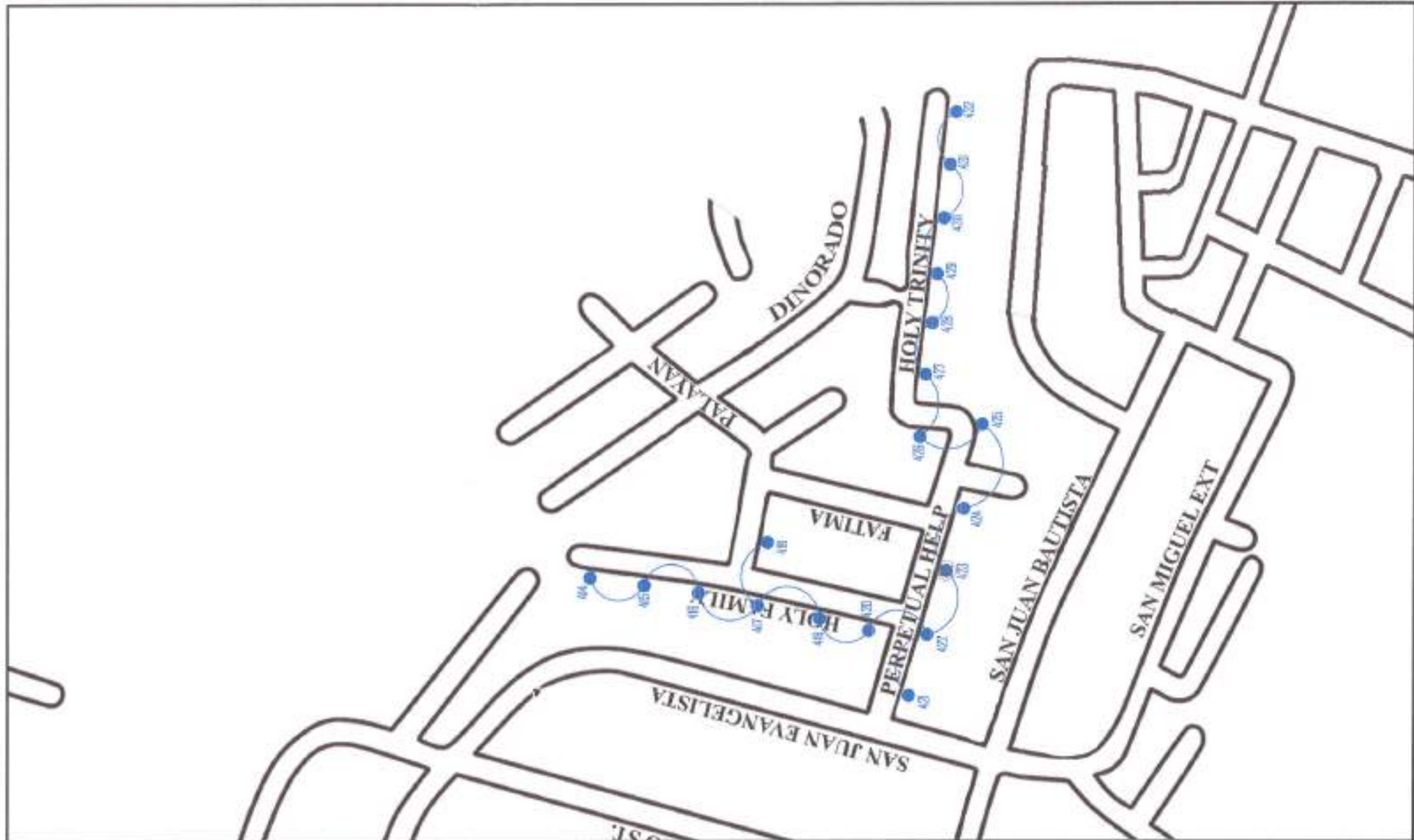
**1 | LIGHTING LAYOUT (SERVICE ENTRANCE 37)**



Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

|  |               |   |   |   |                                       |              |
|--|---------------|---|---|---|---------------------------------------|--------------|
| PROJECT TITLE:   | DRAWN BY:     | SUBMITTED BY:   | RECOMMENDING OFFICIAL:  | APPROVED BY:                                | ISSUE CONTENT:                        | SHEET NO.:   |
| <b>PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS</b> | DATE:         |   |   |   | LIGHTING LAYOUT (SERVICE ENTRANCE 37) | <b>EL-45</b> |
| LOCATION:<br>BHWY, BARANGAY, DISTRICT 2, QUEZON CITY                                   | CHECKED BY:   | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAMMING DIVISION | ENGR. SAADANI R. VERZOSA, JR.<br>O.C. OFFICE, CITY ENGINEERING DEPARTMENT | HON. MA. JOSEFINA G. BELMONTE<br>CITY MAJOR |                                       | <b>4653</b>  |
|  | REVISION NO.: |   |   |   |                                       |              |



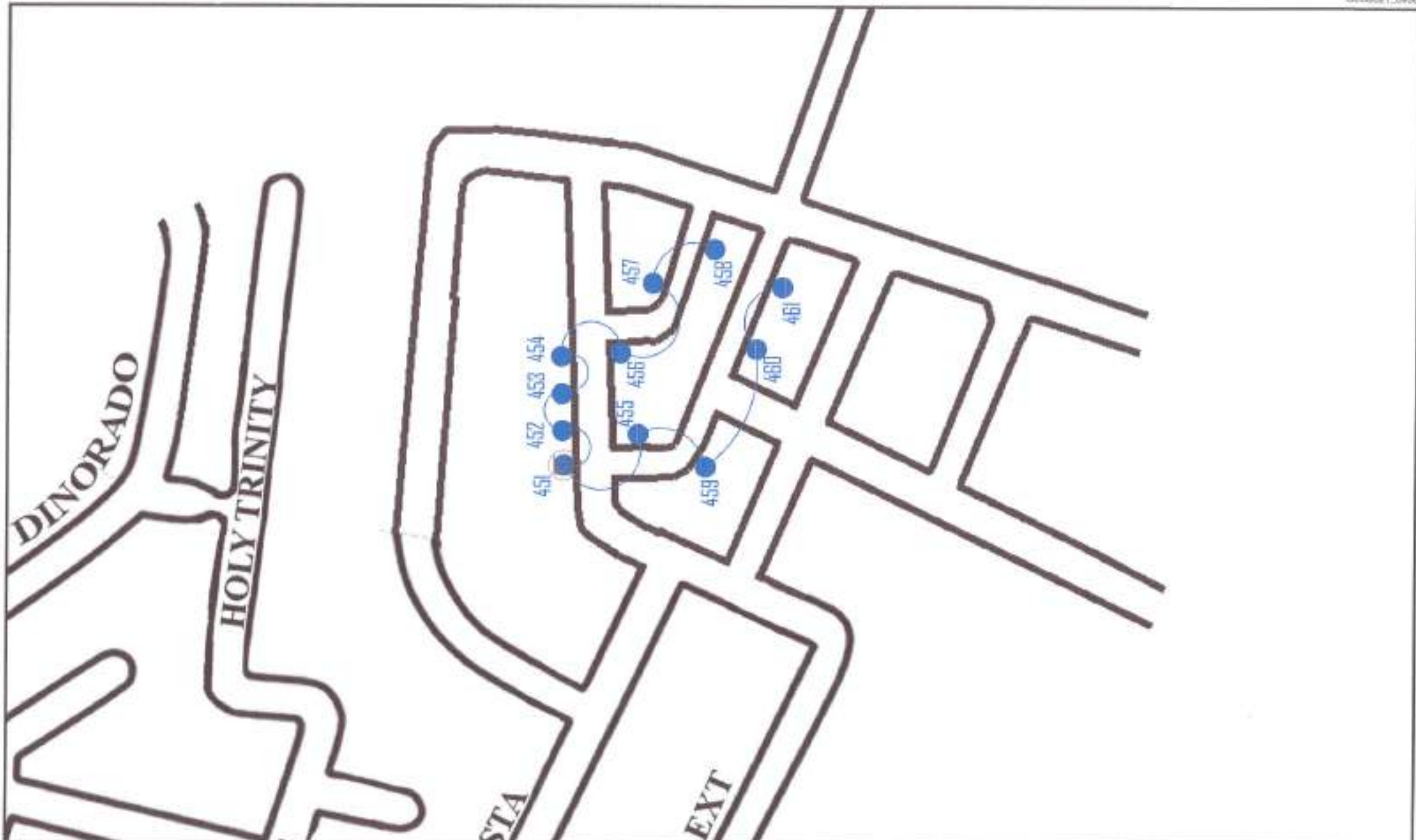


1 LIGHTING LAYOUT (SERVICE ENTRANCE 38)




Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

|  |                                    |   |  |   |   |                             |
|--|------------------------------------|---|--|---|---|-----------------------------|
| PROJECT TITLE:<br><b>PROPOSED CONSTRUCTION AND<br/>INSTALLATION OF STREETLIGHT<br/>POSTS AT BARANGAY PAYATAS</b> | DESIGNED BY:<br><i>[Signature]</i> | SUBMITTED BY:<br><i>[Signature]</i>                             | RECOMMENDING APPROVAL:<br><i>[Signature]</i>                     | APPROVED BY:<br><i>[Signature]</i>        | SHEET NUMBER:<br>LIGHTING LAYOUT<br>(SERVICE ENTRANCE 38) | SHEET NO.<br>EL-46<br>47/53 |
| LOCATION:<br>BAR. PAYATAS, DISTRICT 3, QUEZON CITY   | DATE:<br>CHECKED BY: JAA           | ENGR. LEO S. DEL ROSARIO<br>REG. P. BOARD PROFESSIONAL ENGINEER | ENGR. ISMAEL R. VERZOSA, JR.<br>C.E. CITY ENGINEERING DEPARTMENT | HON. RA. JOSEFINA G. BELMONTE<br>CITY MGR |   |                             |



1 LIGHTING LAYOUT (SERVICE ENTRANCE 39)

|  |   |                                 |   |  |   |                                       |   |
|--|---|---------------------------------|---|--|---|---------------------------------------|---|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:  | DESIGNED BY: <i>[Signature]</i> | SUBMITTED BY:   | RECOMMENDING APPROVAL:   | APPROVED BY:                                | SHEET COUNT:                          | SHEET NO.:  |
|  | PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:                           | <i>[Signature]</i>  | <i>[Signature]</i>   |   | LIGHTING LAYOUT (SERVICE ENTRANCE 39) |  |
|  | LOCATION:<br>BRGY. PAYATAS, DISTRICT 9, QUEZON CITY                             | CHECKED BY: JAN                 | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING AND PRELIMINARY DESIGN | ENGR. EMMANUEL R. VERZOSA, JR.<br>DC CITY ENGINEERING DEPARTMENT | HON. MA. JOSEFINA G. BELMONTÉ<br>CITY MAYOR |                                       |   |



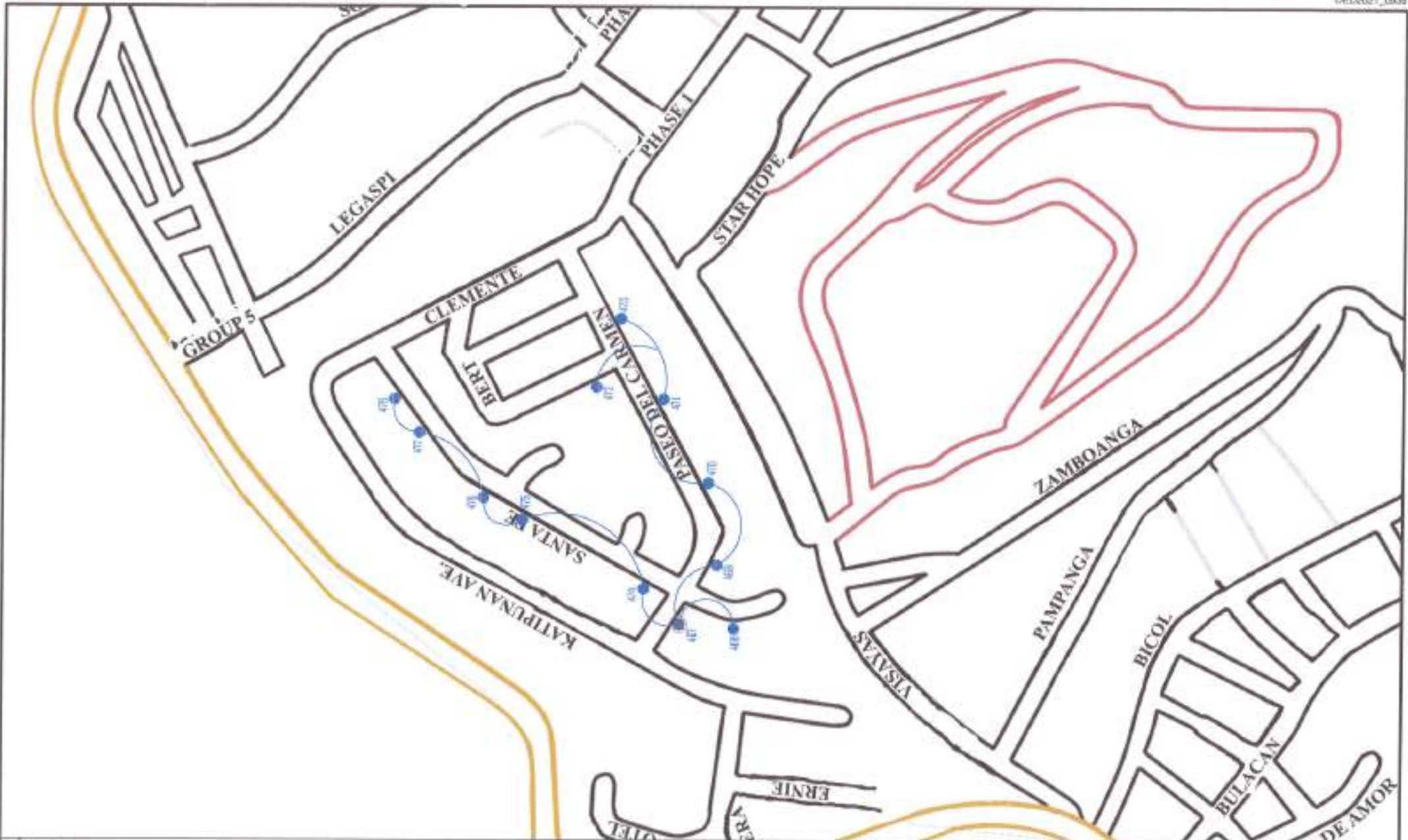
1 LIGHTING LAYOUT (SERVICE ENTRANCE 40)



Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ENGINEERING DEPARTMENT**

|   |             |  |   |   |                                       |               |
|---|-------------|--|---|---|---------------------------------------|---------------|
| PROJECT TITLE   | DRAWN BY    | SUBMITTED BY   | RECOMMENDING APPROVAL   | APPROVED BY                                 | SHEET CONTENT                         | SHEET NO.     |
| PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | CHECKED BY  | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING PROGRAMS DIVISION | ENGR. EUGENIO H. VERZOSA, JR.<br>SAC, CITY ENGINEERING DEPARTMENT | HON. MA. JOSEFINA G. BELMONTÉ<br>CITY MAYOR | LIGHTING LAYOUT (SERVICE ENTRANCE 40) | EL-48<br>4953 |
| LOCATION  | DESIGNED BY |  |   |   |                                       |               |
| BRGY. PAYATAS, DISTRICT 2, QUEZON CITY  |             |  |   |   |                                       |               |





1 LIGHTING LAYOUT (SERVICE ENTRANCE 41)

SCALE: NTS



Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:  
**PROPOSED CONSTRUCTION AND  
INSTALLATION OF STREETLIGHT  
POSTS AT BARANGAY PAYATAS**

LOCATION:  
BRED, PAYATAS, DISTRICT 9, QUEZON CITY

DESIGNED BY:  
DATE:  
CHECKED BY:  
REVISION NO.:

SUBMITTED BY:  
  
ENGR. LEO S. DEL ROSARIO  
HEAD, PLANNING & PROJECTS DIVISION

RECOMMENDING APPROVAL:  
  
ENGR. EDGMAR R. VERZOSA, JR.  
D.C. ENGINEERING DEPARTMENT

APPROVED BY:  
  
HON. MA. JOSEFINA G. BELMONTE  
CITY MGR.

SHEET CONTENT:  
LIGHTING LAYOUT  
(SERVICE ENTRANCE 41)

SHEET NO.  
EL-49  
50/53



1 LIGHTING LAYOUT



Republika ng Pilipinas  
Lungsod ng Quezon  
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:  
**PROPOSED CONSTRUCTION AND  
INSTALLATION OF STREETLIGHT  
POSTS AT BARANGAY PAYATAS**

LOCATION:  
BRGY. PAYATAS DISTRICTS, QUEZON CITY

DRAWN BY: *[Signature]*  
DATE:  
CHECKED BY: *[Signature]*  
REVISION NO.:

SUBMITTED BY:  
*[Signature]*  
ENGR. LEO S. DEL ROSARIO  
HEAD, PLANNING & PROGRAMMING DIVISION

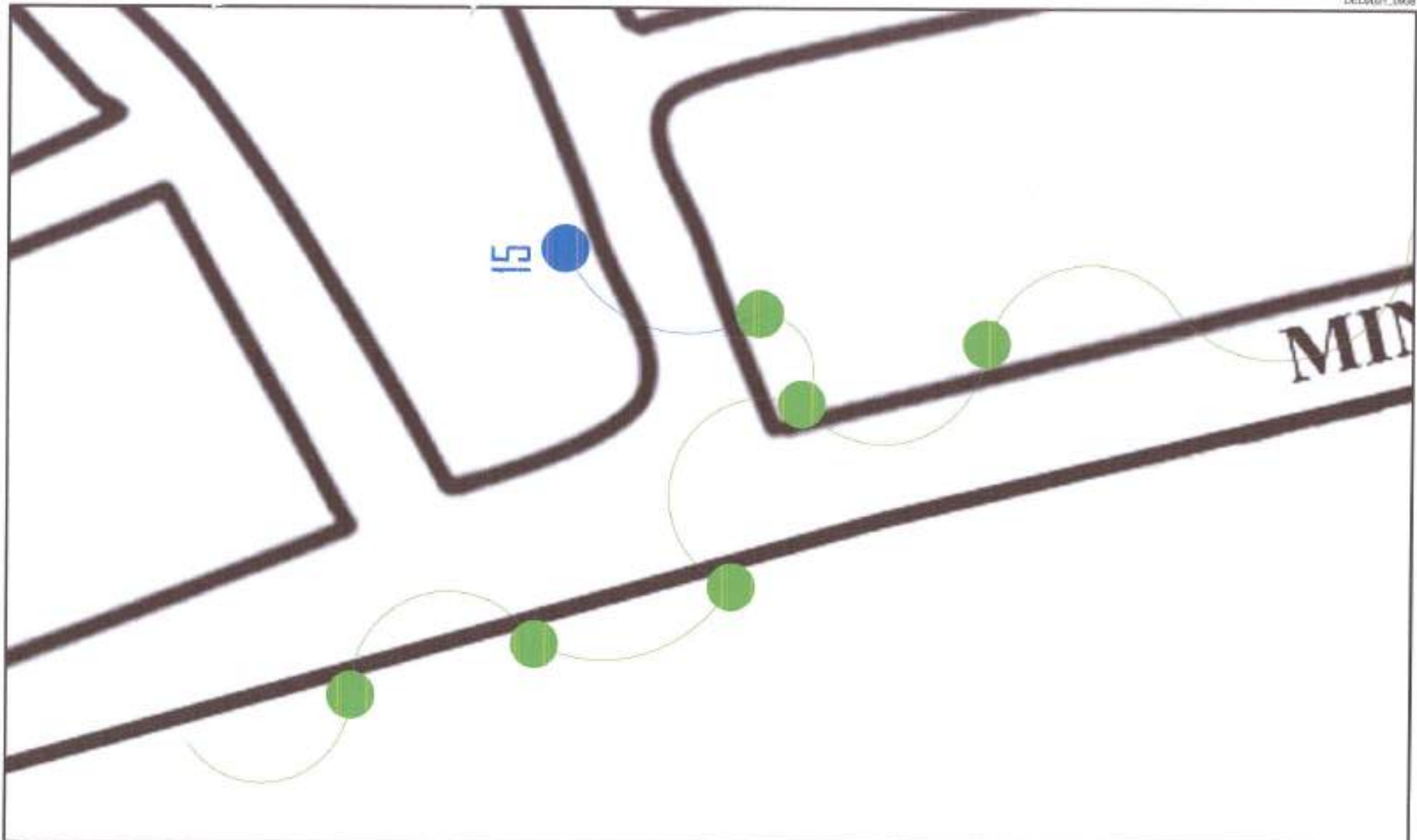
RECOMMENDING APPROVAL:  
*[Signature]*  
ENGR. ISMAEL R. VERZOSA, JR.  
CH. CITY ENGINEERING DEPARTMENT

APPROVED BY:  
*[Signature]*  
HON. MA. JOSEFINA G. BELMONTE  
CITY MANOR



DRAWING CONTENT:  
LIGHTING LAYOUT  
(SERIAL NUMBER 41)

SHEET NO.:  
**EL-50**  
**51/53**






1 LIGHTING LAYOUT

|  |   |                              |                    |   |  |                                       |   |
|--|---|------------------------------|--------------------|---|--|---------------------------------------|---|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:  | DRAWN BY: <i>[Signature]</i> | SUBMITTED BY:      | RECOMMENDING OFFICIAL:  | APPROVED BY:   | SHEET CONTENT                         | SHEET NO.   |
|  | PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:                        | <i>[Signature]</i> | <i>[Signature]</i>  |  | LIGHTING LAYOUT (SERVICE DISTANCE 45) |  |
|  | LOCATION:<br>BAR. PAYATAS, DISTRICT 8, QUEZON CITY                              | DRAWN BY: <i>[Signature]</i> | PERSON IN CHARGE:  | ENGR. LEO S. DEL ROSARIO<br>HEAD, PLANNING & PROGRAMMING DIVISION | ENGR. ISAGANI VERZOSA, JR.<br>D/C, CITY ENGINEERING DEPARTMENT |                                       |   |



1 LIGHTING LAYOUT

|  |   |                                    |                    |  |  |   |            |
|--|---|------------------------------------|--------------------|--|--|---|------------|
|  <p>Republika ng Pilipinas<br/>Lungsod ng Quezon<br/>CITY ENGINEERING DEPARTMENT</p> | PROJECT TITLE:  | DESIGNED BY:<br><i>[Signature]</i> | SUBMITTED BY:      | RECOMMENDING APPROVAL:   | APPROVED BY:   | SHEET LOCATION:                             | SHEET NO.: |
|  | PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS | DATE:                              | <i>[Signature]</i> | <i>[Signature]</i>   |  | LIGHTING LAYOUT                             | EL-52      |
|  | LOCATION:<br>BARANGAY PAYATAS, DISTRICT 2, QUEZON CITY                          | CHECKED BY:<br>J.A.N.              | REVISIONS:         | ENGR. LEY S. DEL ROSARIO<br>HEAD, PLANNING & PROJECT MANAGEMENT DIVISION | ENGR. ERICANTH R. VERZOSA, JR.<br>CITY ENGINEER'S DEPARTMENT | HON. MA. JOSEFINA G. DELMONTE<br>CITY MAYOR | 53/53      |



## ***Section VIII. Bill of Quantities***

### **Notes on the Bill of Quantities**

#### **Objectives**

The objectives of the Bill of Quantities are:

- a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and
- b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

#### **Daywork Schedule**

A Daywork Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Entity of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise the following:

- a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.
- b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

#### **Provisional Sums**

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

### **Signature Box**

A signature box shall be added at the bottom of each page of the Bill of Quantities where the authorized representative of the Bidder shall affix his signature. Failure of the authorized representative to sign each and every page of the Bill of Quantities shall be a cause for rejection of his bid.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final documents.

**PROJECT TITLE: PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS**

**LOCATION : BARANGAY BAGONG SILANGAN, DISTRICT 2, QUEZON CITY**

**PROJECT NO. : 21 - 000230**

**DURATION : Three Hundred (300) Calendar Days**

***BREAKDOWN OF COST***

| Item No. | Item of Work (Description)        | MATERIALS COST | LABOR COST | INDIRECT COST | AGGREGATE COST |
|----------|-----------------------------------|----------------|------------|---------------|----------------|
| I        | GENERAL REQUIREMENTS              |                |            |               |                |
| II       | CONSTRUCTION OF STREETLIGHT POSTS |                |            |               |                |
| III      | DISTRIBUTION LINES                |                |            |               |                |

**TOTAL COST P** \_\_\_\_\_

JMP SUM BID IN WORDS : \_\_\_\_\_  
\_\_\_\_\_

Contractor : \_\_\_\_\_

## BILL OF QUANTITIES

(Building (Electrical Works Specialty) - Construction/Rehabilitation Project)

**PROJECT TITLE :** PROPOSED CONSTRUCTION AND INSTALLATION OF STREETLIGHT POSTS AT BARANGAY PAYATAS

**LOCATION :** BARANGAY PAYATAS, DISTRICT 2, QUEZON CITY

**PROJECT NO. :** 21 - 00230

**DURATION :** Three Hundred (300) Calendar Days

**SCOPE OF WORK :**

- I General Requirements include temporary enclosure, billboard, scaffolding, construction safety and health and clearing, hauling and disposal of construction materials and debris.
- II Construction of Street Light Posts
  - a Construction and Installation of Street Light Posts
  - b Construction and Installation of Street Light Posts with Service Entrance.
- III Distribution Lines include installation of wirings.
- IV All necessary testing and commissioning shall be performed in accordance to standards.

| ITEM NO    | WORK DESCRIPTION & SCOPE OF WORKS                                    | QTY    | UNIT  | UNIT COST                | TOTAL COST |
|------------|--|--------|-------|--------------------------|------------|
| <b>I</b>   | <b>GENERAL REQUIREMENTS</b>  |        |       |                          |            |
|            | Billboard  | 1      | unit  | ₱                        | ₱          |
|            | Clearing, Hauling and Disposal of Construction Materials and Debris  | 10     | t.l.  |                          |            |
|            | Construction Safety and Health                                       | 1      | unit  |                          |            |
|            | Scaffolding (Rental)   | 12     | sq.m. |                          |            |
|            | Temporary Enclosure Around the Construction Area (h= 2.4m)           | 4      | l.m.  |                          |            |
|            |  |        |       | <b>DIRECT COST I</b>     | ₱          |
| <b>II</b>  | <b>CONSTRUCTION OF STREETLIGHT POSTS</b>                             |        |       |                          |            |
|            | Construction and Installation of Street Light Posts                  | 441    | set   | ₱                        | ₱          |
|            | Construction and Installation of Street Light Posts with Panel Board | 41     | set   |                          |            |
|            |  |        |       | <b>MATERIALS COST II</b> | ₱          |
|            |  |        |       | <b>LABOR COST II</b>     |            |
|            |  |        |       | <b>DIRECT COST II</b>    | ₱          |
| <b>III</b> | <b>DISTRIBUTION LINES</b>  |        |       |                          |            |
|            | Wires and Cables   |        |       |                          |            |
|            | 2.0mm <sup>2</sup> THW Wire  | 16,870 | l.m.  |                          |            |
|            | 3.5mm <sup>2</sup> THW Wire  | 33,740 | l.m.  |                          |            |
|            | 8.0mm <sup>2</sup> THW Wire  | 1,148  | l.m.  |                          |            |
|            | 14.0mm <sup>2</sup> Triplex Wire (ACSR-Neutral Wire)                 | 16,870 | l.m.  |                          |            |
|            | Miscellaneous & Consumables  |        |       |                          |            |
|            | Electrical Tape  | 50     | roll  |                          |            |



| ITEM NO | WORK DESCRIPTION & SCOPE OF WORKS | QTY | UNIT | UNIT COST                 | TOTAL COST |
|---------|-----------------------------------|-----|------|---------------------------|------------|
|         | Rubber Tape                       | 50  | roll |                           |            |
|         |                                   |     |      | <b>MATERIALS COST III</b> | <b>₱</b>   |
|         |                                   |     |      | <b>LABOR COST III</b>     |            |
|         |                                   |     |      | <b>DIRECT COST III</b>    | <b>₱</b>   |
|         |                                   |     |      |                           |            |

| ITEM NO. | WORK DESCRIPTION & SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|----------|-----------------------------------|-----|------|-----------|------------|
|----------|-----------------------------------|-----|------|-----------|------------|

**SUMMARY**

| ITEM NO.   | WORK DESCRIPTION & SCOPE OF WORKS  | TOTAL COST                                 |
|--|--|--|
| I<br>II<br>III   | GENERAL REQUIREMENTS<br>CONSTRUCTION OF STREETLIGHT POSTS<br>DISTRIBUTION LINES  | ₱  |
| NOTE:<br><br>• Strictly enforce Health Protocols relative to the latest applicable DPWH Memorandum | <b>TOTAL DIRECT COST</b><br>Overhead, Contingencies and Miscellaneous Expenses (OCM)<br>Profit<br>VAT<br><br><b>TOTAL ESTIMATED COST</b> | ₱<br><br><br><br><br><br><br><br><br><br>₱ |

## ***Section IX. Checklist of Technical and Financial Documents***

### **Notes on the Checklist of Technical and Financial Documents**

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary “pass/fail” criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

# Checklist of Technical and Financial Documents

## I. TECHNICAL COMPONENT ENVELOPE

### *Class “A” Documents*

#### Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);  
**and**
- (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;  
**and**
- (c) Mayor’s or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;  
**and**
- (e) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

#### Technical Documents

- (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (*please see attached prescribed forms required by the QC – BAC for Infrastructure and Consultancy*); **and**
- (g) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules with an attached Notice of Award, Notice to Proceed, Contract and Certificate of Acceptance (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*); **and**
- (h) Philippine Contractors Accreditation Board (PCAB) License;  
**or**  
Special PCAB License in case of Joint Ventures;  
**and** registration for the type and cost of the contract to be bid; **and**
- (i) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;  
**or**  
Original copy of Notarized Bid Securing Declaration; **and**
- (j) Project Requirements, which shall include the following:
  - a. Organizational chart for the contract to be bid;
  - b. List of contractor’s key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*);
  - c. List of contractor’s major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment



lessor/vendor for the duration of the project, as the case may be (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*); **and**

- (k) Original duly signed Omnibus Sworn Statement (OSS); **and** if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Additional Technical Requirements:

- Certificate of Site Inspection or Affidavit of Site Inspection as part of Omnibus Sworn Statement
- Affidavit of Undertaking for Key Personnel and Equipment (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*)
- Equipment Utilization Schedule
- Manpower Schedule
- Construction Schedule and S-Curve
- PERT-CMP
- Construction Methods

#### Financial Documents

- (l) The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**
- (m) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*).

#### **Class "B" Documents**

- (n) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence; **or** duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

## **II. FINANCIAL COMPONENT ENVELOPE**

- (o) Original of duly signed and accomplished Financial Bid Form; **and**

#### Other documentary requirements under RA No. 9184

- (p) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- (q) Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; **and**
- (r) Cash Flow by Quarter.

**Bid Form for the Procurement of Infrastructure Projects**  
*[shall be submitted with the Bid]*

---

**BID FORM**

Date : \_\_\_\_\_  
Project Identification No. : \_\_\_\_\_

To: *[name and address of Procuring Entity]*

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: *[insert name of contract]*;
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: *[insert information]*;
- d. The discounts offered and the methodology for their application are: *[insert information]*;
- e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines<sup>1</sup> for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

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<sup>1</sup> currently based on GPPB Resolution No. 09-2020

- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].
- l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: \_\_\_\_\_

Legal Capacity: \_\_\_\_\_

Signature: \_\_\_\_\_

Duly authorized to sign the Bid for and behalf of: \_\_\_\_\_

Date: \_\_\_\_\_

## **Bid Securing Declaration Form**

*[shall be submitted with the Bid if bidder opts to provide this form of bid security]*

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REPUBLIC OF THE PHILIPPINES)  
CITY OF \_\_\_\_\_) S.S.

### **BID SECURING DECLARATION** **Project Identification No.: *[Insert number]***

To: *[Insert name and address of the Procuring Entity]*

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
  - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
  - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
  - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this \_\_\_\_ day of *[month]* *[year]* at *[place of execution]*.

*[Insert NAME OF BIDDER OR ITS AUTHORIZED  
REPRESENTATIVE]  
[Insert signatory's legal capacity]  
Affiant*

**[Jurat]**

*[Format shall be based on the latest Rules on Notarial Practice]*



## Omnibus Sworn Statement (Revised)

*[shall be submitted with the Bid]*

---

REPUBLIC OF THE PHILIPPINES )  
CITY/MUNICIPALITY OF \_\_\_\_\_ ) S.S.

### AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. *[Select one, delete the other:]*

*[If a sole proprietorship:]* I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

*[If a partnership, corporation, cooperative, or joint venture:]* I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. *[Select one, delete the other:]*

*[If a sole proprietorship:]* As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

*[If a partnership, corporation, cooperative, or joint venture:]* I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. *[Select one, delete the rest:]*

*[If a sole proprietorship:]* The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

*[If a partnership or cooperative:]* None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project

Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

*[If a corporation or joint venture:]* None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and
8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
  - a. Carefully examining all of the Bidding Documents;
  - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
  - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
  - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**
11. We pledge that the project will be completed in accordance and congruency with the approved plans and programs.

**IN WITNESS WHEREOF**, I have hereunto set my hand this \_\_\_ day of \_\_\_\_\_ 20\_\_ at \_\_\_\_\_, Philippines.

*[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]*

*[Insert signatory's legal capacity]*

Affiant

**[Jurat]**

*[Format shall be based on the latest Rules on Notarial Practice]*

**Contract Agreement Form for the  
Procurement of Infrastructure Projects (Revised)**

*[not required to be submitted with the Bid, but it shall be submitted within ten (10) days after  
receiving the Notice of Award]*

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**CONTRACT AGREEMENT**

THIS AGREEMENT, made this *[insert date]* day of *[insert month]*, *[insert year]* between *[name and address of PROCURING ENTITY]* (hereinafter called the "Entity") and *[name and address of Contractor]* (hereinafter called the "Contractor").

WHEREAS, the Entity is desirous that the Contractor execute *[name and identification number of contract]* (hereinafter called "the Works") and the Entity has accepted the Bid for *[contract price in words and figures in specified currency]* by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, viz.:
  - a. Philippine Bidding Documents (PBDs);
    - i. Drawings/Plans;
    - ii. Specifications;
    - iii. Bill of Quantities;
    - iv. General and Special Conditions of Contract;
    - v. Supplemental or Bid Bulletins, if any;
  - b. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;  
  
Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;
  - c. Performance Security;
  - d. Notice of Award of Contract and the Bidder's conforme thereto; and
  - e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**
3. In consideration for the sum of *[total contract price in words and figures]* or such other sums as may be ascertained, *[Named of the bidder]* agrees to *[state the object of the contract]* in accordance with his/her/its Bid.

4. The *[Name of the procuring entity]* agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

*[Insert Name and Signature] [Insert Name and Signature]*

*[Insert Signatory's Legal Capacity] [Insert Signatory's Legal Capacity]*

*for: for:*

*[Insert Procuring Entity] [Insert Name of Supplier]*

**Acknowledgment**

*[Format shall be based on the latest Rules on Notarial Practice]*



## Performance Securing Declaration (Revised)

*[if used as an alternative performance security but it is not required to be submitted with the Bid, as it shall be submitted within ten (10) days after receiving the Notice of Award]*

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REPUBLIC OF THE PHILIPPINES)  
CITY OF \_\_\_\_\_ ) S.S.

### PERFORMANCE SECURING DECLARATION

Invitation to Bid: [Insert Reference Number indicated in the Bidding Documents] To:  
[Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, to guarantee the faithful performance by the supplier/distributor/manufacturer/contractor/consultant of its obligations under the Contract, I/we shall submit a Performance Securing Declaration within a maximum period of ten (10) calendar days from the receipt of the Notice of Award prior to the signing of the Contract.
2. I/We accept that: I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of one (1) year for the first offense, or two (2) years **for the second offense**, upon receipt of your Blacklisting Order if I/We have violated my/our obligations under the Contract;
3. I/We understand that this Performance Securing Declaration shall cease to be valid upon:
  - a. issuance by the Procuring Entity of the Certificate of Final Acceptance, subject to the following conditions:
    - i. Procuring Entity has no claims filed against the contract awardee;
    - ii. It has no claims for labor and materials filed against the contractor; and
    - iii. Other terms of the contract; or
  - b. replacement by the winning bidder of the submitted PSD with a performance security in any of the prescribed forms under Section 39.2 of the 2016 revised IRR of RA No. 9184 as required by the end-user.

**IN WITNESS WHEREOF**, I/We have hereunto set my/our hand/s this \_\_\_\_ day of [month] [year] at [place of execution].

*[Insert NAME OF BIDDER OR ITS  
AUTHORIZED REPRESENTATIVE]  
[Insert signatory's legal capacity]  
Affiant*

**[Jurat]**

*[Format shall be based on the latest Rules on Notarial Practice]*

LIST OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS

NAME OF CONTRACTOR: \_\_\_\_\_

| PROJECT TITLE<br>(Name of the Contract)<br>& EXACT PROJECT LOCATION | DATE OF<br>CONTRACT | CONTRACT<br>DURATION | PROJECT OWNER &<br>POSTAL ADDRESS | NATURE OF WORK | CONTRACTOR'S ROLE<br>(SOLE CONTRACTOR, SUBCONTRACTOR,<br>PARTNER IN A JV)<br>and PERCENTAGE OF<br>PARTICIPATION | TOTAL<br>CONTRACT<br>VALUE AT<br>AWARD | DATE OF<br>COMPLETION or<br>ESTIMATED<br>COMPLETION TIME | TOTAL<br>CONTRACT<br>VALUE AT<br>COMPLETION<br>IF APPLICABLE | PERCENTAGE                                 |                           | VALUE OF OUTSTANDING<br>WORKS (IN PHP) |
|---|---------------------|----------------------|-----------------------------------|----------------|---|--|--|--|--|---------------------------|--|
|   |                     |                      |                                   |                |   |  |  |  | ACTUAL<br>ACCOMPLISHMENT                   | PLANNED<br>ACCOMPLISHMENT |  |
|   |                     |                      |                                   |                |   |  |  |  |  |                           |  |
|   |                     |                      |                                   |                |   |  |  |  | TOTAL AMOUNT (Php) OF<br>OUTSTANDING WORKS |                           |  |

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

**LIST OF ALL AWARDED BUT NOT YET STARTED GOVERNMENT AND PRIVATE CONTRACTS OF THE BIDDER**

**NAME OF CONTRACTOR:** \_\_\_\_\_

**PROJECT TITLE:** \_\_\_\_\_

| PROJECT TITLE & EXACT LOCATION | MAJOR SCOPE OF WORKS & DATE STARTED | NAME AND ADDRESS OF PROJECT OWNER | CONTRACT PRICE (PHP) AS AWARDED | DATE OF SCHEDULED COMPLETION | ROLE OF BIDDER IN THE <u>CONTRACT</u> <u>SOLE CONTRACTOR / SUB-CONTRACTOR/PARTNER IN A</u> |
|--------------------------------|-------------------------------------|-----------------------------------|---------------------------------|------------------------------|--|
|                                |                                     |                                   |                                 |                              |  |
|                                | TOTAL AMOUNT OF CONTRACT (Php)      |                                   |                                 |                              |  |

**SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID**

**NAME OF CONTRACTOR:** \_\_\_\_\_

**PROJECT TITLE:** \_\_\_\_\_

| PROJECT TITLE<br>(Name of the Contract)<br>& EXACT PROJECT LOCATION | DATE OF<br>CONTRACT | CONTRACT<br>DURATION | PROJECT OWNER & POSTAL<br>ADDRESS | NATURE OF WORK | CONTRACTOR'S ROLE<br>(SOLE CONTRACTOR, SUBCONTRACTOR,<br>PARTNER IN A JV)<br>and PERCENTAGE OF<br>PARTICIPATION | TOTAL<br>CONTRACT<br>VALUE AT<br>AWARD | DATE OF<br>COMPLETION or<br>ESTIMATED<br>COMPLETION TIME | TOTAL<br>CONTRACT<br>VALUE AT<br>COMPLETION<br>IF APPLICABLE |
|---|---------------------|----------------------|-----------------------------------|----------------|---|--|--|--|
|   |                     |                      |                                   |                |   |  |  |  |

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page \_\_\_\_\_ of \_\_\_\_\_



**LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT**

**NAME OF CONTRACTOR:** \_\_\_\_\_

**PROJECT TITLE:** \_\_\_\_\_

| TYPE | DESCRIPTION / CAPACITY | SERIAL NO. | YEAR ACQUIRED | PRESENT LOCATION (SPECIFIC ADDRESS) | STATUS OF AVAILABILITY (OWNED/LEASED) |
|------|------------------------|------------|---------------|-------------------------------------|---------------------------------------|
|      |                        |            |               |                                     |                                       |

**A. LIST OF KEY CONSTRUCTION PERSONNEL TO BE ASSIGNED TO THE PROJECT**

NAME OF CONTRACTOR: \_\_\_\_\_

PROJECT TITLE: \_\_\_\_\_

| NAME | POSITION | AGE | EDUCATIONAL<br>ATTAINMENT | TYPE OF<br>CONSTRUCTION<br>EXPERIENCE | NO.OF YEARS<br>WITH THE<br>CONTRACTOR | PROFESSION | PRC NO. |
|------|----------|-----|---------------------------|---------------------------------------|---------------------------------------|------------|---------|
|      |          |     |                           |                                       |                                       |            |         |

## COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER: \_\_\_\_\_

|  |        |     |       |
|--|--------|-----|-------|
| CURRENT ASSETS*  |        | PHP | _____ |
| (LESS) CURRENT LIABILITIES*  | (LESS) | PHP | _____ |
| NETWORTH   |        | PHP | _____ |
| NETWORTH x 15  | x 15   | PHP | _____ |
| (LESS) VALUE OF ALL OUTSTANDING ON-GOING CONTRACTS**                   | (LESS) | PHP | _____ |
| (LESS) VALUE OF ALL AWARDED BUT NOT YET STARTED CONTRACTS AS OF DATE** | (LESS) | PHP | _____ |
| <b>NET FINANCIAL CONTRACTING CAPACITY</b>                              |        | PHP | _____ |

NOTES: \* CURRENT ASSETS AND LIABILITIES BASED ON AUDITED FINANCIAL STATEMENT FOR THE PRECEDING CALENDAR YEAR SUBMITTED TO B.I.R.

\*\* BASED ON LIST OF ON-GOING AND AWARDED BUT NOT YET STARTED CONTRACTS SUBMITTED

REPUBLIC OF THE PHILIPPINES)

\_\_\_\_\_ ) S.S.

### AFFIDAVIT OF UNDERTAKING

I, \_\_\_\_\_ of legal age, Filipino, \_\_\_\_\_ [OFFICER OR REPRESENTATIVE]

with office address at \_\_\_\_\_ after having been duly sworn to in accordance with law, hereby voluntary depose and state:

That I am duly authorized representative of the [Name of Bidder] to execute this undertaking as evidenced by Secretary's Certificate and Board Resolution.

That [Name of Bidder] bidding for the (Name of Project)

That relative to the aforementioned Project, the [Name of Bidder] hereby undertake that the equipment to be use and the key personnel to be assign shall exclusively be used and will only perform to the said project until its completion.

That I am executing this affidavit to attest to the truth of the foregoing and in compliance with the submission of the technical requirements for the public bidding of the said project.

IN WITNESS HEREOF, I have hereunto signed my name below this \_\_\_\_\_ day of \_\_\_\_\_ at \_\_\_\_\_.

AFFIANT FURTHER SAYETH NAUGHT.

\_\_\_\_\_  
Affiant

SUBSCRIBED AND SWORN TO BEFORE ME this \_\_\_\_\_ day of \_\_\_\_\_  
in \_\_\_\_\_

affiant exhibiting to me his/her \_\_\_\_\_ issued at \_\_\_\_\_  
on \_\_\_\_\_

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