

**Tourism Infrastructure and Enterprise Zone Authority
Office of the Chief Operating Officer**



DOCUMENT TRACKING/ACTION PAGE		Date Received:	Acct.:
		July 05, 2021	Symonds
		Serial No. 21070504	Pages: 28 pages
FROM/SUBJECT: Municipality of Currimao, Ilocos Norte (Mayor Edward T. Quilala) - Request for Funding of the Construction/Installation of Streetlights Along Seawall Boulevard, Currimao, Ilocos Norte			
FROM			REMARKS/ACTIONS
OCIO	6000	For appropriate action, please. Thank you.	



Republic of the Philippines
Province of Ilocos Norte
Municipality of Currimao

Office of the Municipal Mayor

Telefax No. 670-1301

June 24, 2021

HON. MARK T. LAPID

Chief Operating Officer

Tourism Infrastructure and Enterprise Zone Authority(TIEZA)

7TH Floor, Tower 1

Double Dragon Plaza

Double Dragon Meridian Park

Macapagal Avenue cor EDSA Ext

1302, Bay Area Pasay City

Dear Sir:

Greetings!

The Municipality of Currimao is located in the southwestern portion of Ilocos Norte along the vast shorelines of the West Philippine Sea. It is 27 kms from Laoag City proper and 30 kms to Laoag International Airport. It has two Ports in the area- one Government owned and the other one is a Private Port.

Currimao is one of the promising tourist destinations in the North. It is a small town composed of 23 barangays and a 4th class income Municipality. Its pristine sea and child-friendly shore made it so popular and has become one of the most visited places in the north.

Currimao's main livelihood is fishing. They depend on fishing occupation to sustain their families. However, there are so many challenges that comes with it like the unstable weather and scarcity of catch brought about by climate change, then of course, the pandemic.

Amidst the growing crisis brought about by the pandemic, the people found alternative livelihood in local tourism. Local tourists from Ilocos Norte would visit Currimao's Pangil Rock Formation, the twin watchtowers and they would find comfort in just sitting by the seawall watching the sunset and the Currimao Bay. Currimao folks found an opportunity - they built small huts, tents and started selling street foods along the seawall of Currimao. It has become the street food Mecca of Ilocos Norte.



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The local government of Currimao, with its menial income, largely depending on IRA, can only give limited support. Seeing the potential of the area in terms of tourism, the LGU provided temporary street lights made up of simple bulb covered with light fabric, hung over bamboo posts and scattered along the seawall (please see enclosed photos daytime and night time). The lightings have brought so much life and vibrance in that part of our Municipality. It is so astonishing to see the old, sleepy town become alive and active. However, we know that such can only last for a short period of time. Maybe a typhoon can totally wash these out.

It is for this reason that we request your good office for the funding of 2 km decorative lights along seawall boulevard of Currimao. This will not only make the place safer but it will further boost our tourism industry, thus giving the people alternative livelihood other than fulltime fishing.

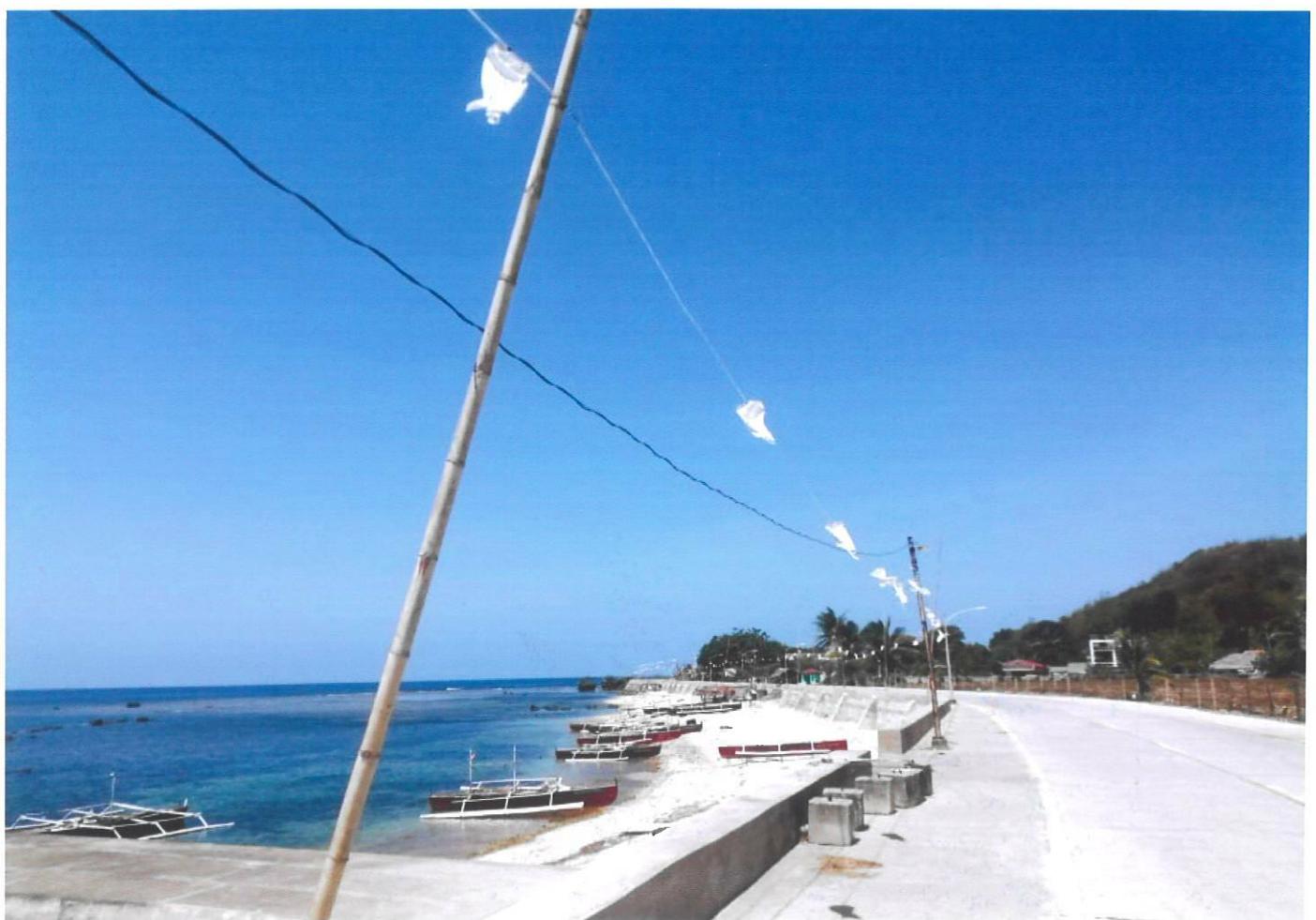
With the right promotion thru the Tourism Promotions board, Currimao Seawall Boulevard, with its refreshing ambiance plus the sight of our majestic sunset is not far from what Calle Crisologo of Vigan has become.

Knowing your benevolence and all-out support to tourism development, we are optimistic that you can support us in this endeavor as we partner together in promoting tourism, thereby creating jobs and economic activities for our local communities.

Thank you and More Power!

Respectfully yours,

EDWARD T. QUIDALA
Municipal Mayor





Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ILOCOS NORTE
SECOND DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE I
San Pablo, San Nicolas, Ilocos Norte

INZ-PDS-004-0028
DPWH-INSDEO, RMU, HRAS
DATE: 21/01/21
FILE NO.: 403.72

February 01, 2021

HON. EDWARD T. QUILALA
Municipal Mayor
Municipality of Currimao
Ilocos Norte

Sir:

May we respectfully furnish you the photocopy of the Electrical Plan and Programs of Work for the Construction/Installation of Streetlights along Seawall Boulevard, Currimao, Ilocos Norte.

For your information and file.

Very truly yours,

REYNALDO S. ORGANO
District Engineer

RO1.10.1/BPE/SPS

Received: 2/01/21



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PROGRAM OF 1

Project	CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE
Project ID	
Location	CURRIMAO, ILOCOS NORTE
Station Limits	
Appropriation	P17,574,000.00
Source of Fund	FOR FUNDING

DESCRIPTION OF WORKS TO BE DONE		QUANTITY	UNIT	
PART II	OTHER GENERAL REQUIREMENTS			
PART III	CIVIL, MECHANICAL, ELECTRICAL AND SANITARY/PLUMBING WORKS			
PART A	EARTHWORKS			
PART B	PLAIN AND REINFORCED CONCRETE WORKS			
PART D	ELECTRICAL			
				Total

EQUIPMENT:

BREAKDOWN OF EXPENDITURES:

BREAKDOWN OF EXPENDITURES		A
1. Labor		
2. Materials		
3. Rental of Equipment		
4. Provisional Sum / Daywork		
5. OCM and Profit		
6. Value Added Tax		
7. FAO, 0.2 %		
8. RROW Acquisition		
9. Physical Reserved (Contingency)		
10. TOTAL ESTIMATED COST		SAV

Preparation and Submission:

Prepared by:

MARIA KAY S. ECO

Engineering II

Checked/Submitted by:

510

SUSAN B. SIMEON

Chief Planning & Design Section

Reviewed by:

~~ALBERT KAISEO A. BATUYONG, JR~~
Engineer II

Engineer II



CONSTRUCTION/INSTALLATION OF STREETLIGHTS
CURRIMA

ITEM NO	DESCRIPTION	%	QUALITY	UNIT	ITEM NO
PART II OTHER GENERAL REQUIREMENTS					
B.3	Permits and Clearances	0.33%	1.00	L.S.	
B.5	Project Billboard/Signboard	0.07%	2.00	ea.	
B.7(1)	Occupational Safety and Health Program	1.94%	3.00	mo.	22
B.9	Mobilization and Demobilization	0.81%	1.00	L.S.	
TOTAL OF PART II					
PART III CIVIL, MECHANICAL, ELECTRICAL AND SANITARY/PLUMBING WORKS					
PART A EARTHWORKS					
801(1)	Removal of Structures and Obstruction (Concrete)	2.24%	1.00	L.S.	
803(1)a	Structure Excavation (Common Soil, Manual Excavation)	1.57%	1246.62	cu.m.	
804(1)a	Embankment from Structure Excavation	0.15%	490.28	cu.m.	
804(4)	Gravel Bedding	2.21%	435.20	cu.m.	21
TOTAL OF PART A					
PART B PLAIN AND REINFORCED CONCRETE WORKS					
900(1)c1	Structural Concrete, 28 days	19.43%	566.51	cu.m.	1,79
902(1)b	Reinforcing Steel, Grade 50	3.07%	6,487.36	kgs	27
903(1)	Forms and Falseworks	3.18%	1.00	L.S.	25
TOTAL OF PART B					
PART D ELECTRICAL					
110(10)	Conduits, Boxes and Fittings (Conduit Works/Conduit Rough-In)	0.15%	1.00	L.S.	12,216
1101(33)	Wires and Wiring Devices	13.93%	1.00	L.S.	1,724.5
1102(1)	Panelboard with Main & Branch Breakers	0.33%	1.00	L.S.	40,376
1103(1)	Lighting Fixtures and Lamps	50.59%	1.00	L.S.	6,328.7
TOTAL OF PART D					
TOTAL OF PART III					
GRAND TOTAL					
		100.00%			10,935.1

Preparation and Submission:

Prepared by:

[Signature]
MARIA KAY S. ECO
Engineer II

Checked/Submitted by:

[Signature]
SUSAN P. SIMEON
Chief Planning & Design Sector

Reviewed by:

[Signature]
ALBERT KAISER A. BATUWONG, JR.
Engineer II



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ILOCOS NORTE
SECOND DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE I
San Pablo, San Nicolas, Ilocos Norte

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE

LOCAL

FORM POW-2015-01B-00

MINIMUM EQUIPMENT REQUIREMENT

Equipment Description	Capacity	Number of Equipment	No.	Equipment Description	Capacity	Number of Equipment
Concrete Chipper/Jack Hammer		2	26			
Plate Compactor/Tamping Rammer	5 hp	1	27			
One Bagger Mixer	4-6 ft ³ /min	1	28			
Bar Bender	Three Phase	1	29			
Bar Cutter	Single Phase	1	30			
Truck Mounted Crane, 200hp	20-25mT	1	31			
Cargo/Service Truck, 270hp	9-10 mT	1	32			
			33			
			34			
			35			
			36			
			37			
			38			
			39			
			40			
			41			
			42			
			43			
			44			
			45			
			46			
			47			
			48			
			49			
			50			
SUB-TOTAL		8		SUB-TOTAL		0
						8

MINIMUM EQUIPMENT REQUIREMENTS

MINIMUM EQUIPMENT REQUIREMENTS			TECHNICAL PERSONNEL REQUIRED		
		REQUIRED NO. OF UNITS	MINIMUM CAPACITY / UNIT	Description	No.
Concrete Chipper/Jack Hammer				Construction Foreman	1
Concrete Compactor/Tamping Rammer				Mason	2
Bagger Mixer	1			Steel Man	2
Bender	1			Electrician	1
Cutter	1			Laborer	16
Mobile Mounted Crane, 200hp	1				
Service Truck, 270hp	1				
MINIMUM MINOR EQUIPMENT REQUIREMENTS					
		REQUIRED NO. OF UNITS	MINIMUM CAPACITY / UNIT		
Concrete Chipper/Jack Hammer	2				
Concrete Compactor/Tamping Rammer	1		5 hp		
Bagger Mixer	1		4-6 ft ³ /min		
Bender	1		Three Phase		
Cutter	1				
Mobile Mounted Crane, 200hp	1		20-25mT		
Service Truck, 270hp	1		9-10 mT		
LABORATORY EQUIPMENT			LABORATORY EQUIPMENT		
		REQUIRED NO. OF UNITS	MINIMUM CAPACITY / UNIT	REQUIRED NO. OF UNITS	MINIMUM CAPACITY / UNIT
Std., 200mm	1		pc.	Pan, Brass, 200 mm dia. X 50 mm deep	1
Std., diameter, opening 75 mm (3")	1		pc.	Cover, brass, sieve	1
Std., diameter, opening 63 mm (2-1/2")	1		pc.	Brush, fine, sieve	1
Std., diameter, opening 50 mm (2")	1		pc.	Brush, wire, sieve	1
Std., diameter, opening 37.5 mm (1-1/2")	1		pc.	Mold, Steel Beam (150mmx150mmx500mm)	6
Std., diameter, opening 25 mm (1")	1		pc.		
Std., diameter, opening 19 mm (3/4")	1		pc.		
Std., diameter, opening 12.5 mm (1/2")	1		pc.		
Std., diameter, opening 9.5 mm (3/8")	1		pc.		
Std., diameter, opening 4.75 mm (No.4)	1		pc.		
Std., diameter, opening 2.36 mm (No.8)	1		pc.		
Std., diameter, opening 2.00 mm (No.10)	1		pc.		
Std., diameter, opening 1.18 mm (No.16)	1		pc.		
Std., diameter, opening 0.600 mm (No.30)	1		pc.		
Std., diameter, opening 0.425 mm (No.40)	1		pc.		
Std., diameter, opening 0.300 mm (No.50)	1		pc.		
Std., diameter, opening 0.150 mm (No.100)	1		pc.		
Std., diameter, opening 0.075 mm (No.200)	1		pc.		



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ILOCOS NORTE
SECOND DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE I
San Pablo, San Nicolas, Ilocos Norte

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE

LOCAL

FORM POW-2015-01B-00

MINIMUM EQUIPMENT REQUIREMENT

Equipment Description	Capacity	Number of Equipment	No.	Equipment Description	Capacity	Number of Equipment
Concrete Chipper/Jack Hammer		2	26			
Plate Compactor/Tamping Rammer	5 hp	1	27			
One Bagger Mixer	4-8 ft ³ /min	1	28			
Bar Bender	Three Phase	1	29			
Bar Cutter	Single Phase	1	30			
Truck Mounted Crane, 200hp	20-25mT	1	31			
Cargo/Service Truck, 270hp	9-10 mT	1	32			
			33			
			34			
			35			
			36			
			37			
			38			
			39			
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			45			
			46			
			47			
			48			
			49			
			50			
SUB-TOTAL		8	SUB-TOTAL		0	8

MINIMUM EQUIPMENT REQUIREMENTS			TECHNICAL PERSONNEL REQUIRED			
MINIMUM MAJOR EQUIPMENT REQUIREMENTS		REQUIRED NO. OF UNITS	MINIMUM CAPACITY / UNIT	Description	No.	
				Construction Foreman Mason Steel Man Electrician Laborer	1 2 2 1 16	
MINIMUM MINOR EQUIPMENT REQUIREMENTS		REQUIRED NO. OF UNITS	MINIMUM CAPACITY / UNIT			
Concrete Chipper/Jack Hammer		2				
Plate Compactor/Tamping Rammer		1	5 hp			
Telescopic Bagger Mixer		1	4-6 R3/min			
Wire Bender		1	Three Phase			
Wire Cutter		1				
Crane Mounted Crane, 200hp		1	20-25mT			
Service Truck, 270hp		1	9-10 mT			
LABORATORY EQUIPMENT		REQUIRED NO. OF UNITS	MINIMUM CAPACITY / UNIT	LABORATORY EQUIPMENT	REQUIRED NO. OF UNITS	MINIMUM CAPACITY / UNIT
Sieve, Std., 200mm		1	pc.	Pan, Brass, 200 mm dia. X 50 mm deep	1	pc.
Sieve, Std., diameter, opening 75 mm (3")		1	pc.	Cover, brass, sieve	1	pc.
Sieve, Std., diameter, opening 63 mm (2-1/2")		1	pc.	Brush, fine, sieve	1	pc.
Sieve, Std., diameter, opening 50 mm (2")		1	pc.	Brush, wire, sieve	1	pc.
Sieve, Std., diameter, opening 37.5 mm (1-1/2")		1	pc.	Mold, Steel Beam (150mmx150mmx500mm)	6	pcs.
Sieve, Std., diameter, opening 25 mm (1")		1	pc.			
Sieve, Std., diameter, opening 19 mm (3/4")		1	pc.			
Sieve, Std., diameter, opening 12.5 mm (1/2")		1	pc.			
Sieve, Std., diameter, opening 9.5 mm (3/8")		1	pc.			
Sieve, Std., diameter, opening 4.75 mm (No.4)		1	pc.			
Sieve, Std., diameter, opening 2.36 mm (No.8)		1	pc.			
Sieve, Std., diameter, opening 2.00 mm (No.10)		1	pc.			
Sieve, Std., diameter, opening 1.18 mm (No.16)		1	pc.			
Sieve, Std., diameter, opening 0.600 mm (No.30)		1	pc.			
Sieve, Std., diameter, opening 0.425 mm (No.40)		1	pc.			
Sieve, Std., diameter, opening 0.300 mm (No.50)		1	pc.			
Sieve, Std., diameter, opening 0.150 mm (No.100)		1	pc.			
Sieve, Std., diameter, opening 0.075 mm (No.200)		1	pc.			

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE

DETAILED UNIT PRICE ANALYSIS

Item No./Description	:	B.3	Permits and Clearances
Unit of Measurement	:	L.S.	
Output per hour - As Submitted	:	1.00	
Output per hour - As Evaluated	:		

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.1	Labor				
	Sub - Total for A.1 - As Submitted				0.00
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Name and Capacity	No of Units	No. of Days	Daily Rate	Amount
	Equipment				
	Sub - Total for B.1 - As Submitted				0.00
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				0.00
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				1.00
D.2	Output per hour - As Evaluated				
E.1	Direct Unit Cost (C.1 / D.1) - As Submitted				0.00
E.2	Direct Unit Cost (C.2 / D.2) - As Evaluated				
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount
	Materials				
	Permits and Clearances <i>(Note: PEE and In-charge EE Fees Included)</i>	L.S.	1.00	50,000.00	50,000.00
	Sub - Total for F.1 - As Submitted				50,000.00
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1+ F.1) - As Submitted				50,000.00
G.2	Direct Unit Cost (E.2+ F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			0%	0.00
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1	Contractor's Profit (CP) - As Submitted			8%	4,000.00
I.2	Contractor's Profit (CP) - As Evaluated				
J.1	Value Added Tax (VAT) - As Submitted			5%	2,700.00
J.2	Value Added Tax (VAT) - As Evaluated				
K.1	Total Unit Cost - As Submitted				56,700.00
K.2	Total Unit Cost - As Evaluated				

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE

DETAILED UNIT PRICE ANALYSIS

Item No./Description	:	B.5	Project Billboard/Signboard
Unit of Measurement	:	ea.	
Output per hour - As Submitted	:	2.00	
Output per hour - As Evaluated	:		

	Designation	No. of Person	No. of Days	Hourly Rate	Amount
A.1	Labor				
	Construction Foreman	1	1.00	749.70	749.70
	Skilled Laborer	1	1.00	541.90	541.90
	Unskilled Laborer	1	1.00	418.29	418.29
	Sub - Total for A.1 - As Submitted				1,709.89
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Name and Capacity	No of Units	No. of Days	Hourly Rate	Amount
	Equipment				
	Minor Tools (10% of labor cost)				170.99
	Sub - Total for B.1 - As Submitted				170.99
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				1,880.88
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				2.00
D.2	Output per hour - As Evaluated				
E.1	Direct Unit Cost (C.1 / D.1) - As Submitted				940.44
E.2	Direct Unit Cost (C.2 / D.2) - As Evaluated				
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount
	Materials				
	a. 8' x 8' Tarpaulin	ft ²	128.00	20.00	2,560.00
	b. Good Lumber (Frames)	bd.ft.	96.00	55.00	5,280.00
	c. Assorted Common Working Nails	kg.	1.00	65.50	65.50
	Sub - Total for F.1 - As Submitted				7,905.50
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				9,786.38
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%	1,174.37
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1	Contractor's Profit (CP) - As Submitted			8%	782.91
I.2	Contractor's Profit (CP) - As Evaluated				
J.1	Value Added Tax (VAT) - As Submitted			5%	587.18
J.2	Value Added Tax (VAT) - As Evaluated				
K.1	Total Unit Cost - As Submitted				12,330.84
K.2	Total Unit Cost - As Evaluated				

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE

DETAILED UNIT PRICE ANALYSIS

Item No./Description : B.7(1) Occupational Safety and Health Program
 Unit of Measurement : mo.
 Output per hour - As Submitted : 3.00
 Output per hour - As Evaluated :

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.1	Labor				
	Health and Safety Practitioner				
a.	Safety Practitioner/ Officer (Part Time)	1	30.00	749.70	22,491.00
b.	First Aider	1	90.00	541.90	48,771.00
	Sub - Total for A.1 - As Submitted				71,262.00
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Name and Capacity	No of Units	No. of Days	Daily Rate	Amount
	Equipment				
	Sub - Total for B.1 - As Submitted				0.00
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				71,262.00
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				3.00
D.2	Output per hour - As Evaluated				
E.1	Direct Unit Cost (C.1 / D.1) - As Submitted				23,754.00
E.2	Direct Unit Cost (C.2 / D.2) - As Evaluated				
	Name and Specification	Unit	Quantity	Unit Cost	Amount
	Materials				
	Medicine Kit				
	First Aid Kit	L.S.	1.00	1,000.00	1,000.00
	Personal Protective Equipment				
F.1	a. Safety Helmet	man-days	2,400.00	0.34	816.00
	b. Safety Shoes	man-days	2,400.00	4.11	9,864.00
	c. Safety Gloves	man-days	2,400.00	7.67	18,408.00
	d. Vest	man-days	2,400.00	2.22	5,328.00
	e. Rain Coats	man-days	565.00	0.34	192.10
	f. Dust Mask	man-days	480.00	10.00	4,800.00
	g. Eye Goggles	man-days	2,400.00	5.00	12,000.00
	h. Ear Muff	man-days	1,600.00	0.83	1,328.00
	i. Body Harness and Lanyard	man-days	405.00	3.21	1,300.05
	j. Rubber Boots	man-days	1,610.00	1.39	2,237.90
	Antiseptics and Disinfectant				
	a. Sanitizing Solution	lit	165.00	100.00	16,500.00
	b. Ethyl Alcohol	lit	205.00	185.00	37,925.00
	c. Disinfectant Spray	can	85.00	1,000.00	85,000.00
	d. Liquid Hand Soap	lit	60.00	200.00	12,000.00
	COVID-19 Rapid Antibody Test	each	15.00	1,000.00	15,000.00

	Sub - Total for F.1 - As Submitted				223,699.05
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1+ F.1) - As Submitted				294,961.05
G.2	Direct Unit Cost (E.2+ F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		0%		0.00
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1	Contractor's Profit (CP) - As Submitted		8%		23,596.88
I.2	Contractor's Profit (CP) - As Evaluated				
J.1	Value Added Tax (VAT) - As Submitted		5%		15,927.90
J.2	Value Added Tax (VAT) - As Evaluated				
K.1	Total Unit Cost - As Submitted				334,485.83
K.2	Total Unit Cost - As Evaluated				

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE

DETAILED UNIT PRICE ANALYSIS

Item No./Description	:	B.9	Mobilization and Demobilization
Unit of Measurement	:	L.S.	
Output per hour - As Submitted	:	1.00	
Output per hour - As Evaluated	:		

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.1	Labor				
	Sub - Total for A.1 - As Submitted				0.00
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
	Name and Capacity	No of Units	No. of Days	Daily Rate	Amount
	Equipment				
B.1	a. Mobilization/Demobilization (1% of Part III)				114,225.61
	Sub - Total for B.1 - As Submitted				114,225.61
	Equipment				
B.2					
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				114,225.61
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				1.00
D.2	Output per hour - As Evaluated				
E.1	Direct Unit Cost (C.1 / D.1) - As Submitted				114,225.61
E.2	Direct Unit Cost (C.2 / D.2) - As Evaluated				
	Name and Specification	Unit	Quantity	Unit Cost	Amount
F.1	Materials				
	Sub - Total for F.1 - As Submitted				0.00
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1+ F.1) - As Submitted				114,225.61
G.2	Direct Unit Cost (E.2+ F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				0.00
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1	Contractor's Profit (CP) - As Submitted				0.00
I.2	Contractor's Profit (CP) - As Evaluated				
J.1	Value Added Tax (VAT) - As Submitted			5%	5,711.28
J.2	Value Added Tax (VAT) - As Evaluated				
K.1	Total Unit Cost - As Submitted				119,936.89
K.2	Total Unit Cost - As Evaluated				

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE
DETAILED UNIT PRICE ANALYSIS

Item No./Description : 801(1) Removal of Structures and Obstruction (Concrete)
 Unit of Measurement : L.S.
 Output per hour - As Submitted : 1.00
 Output per hour - As Evaluated :

	Designation	No. of Person	No. of days	Daily Rate	Amount
A.1	Labor				
	Construction Foreman	1	35.00	749.70	26,239.50
	Skilled Laborer				
	Unskilled Laborer	12	35.00	418.29	175,681.80
	Sub - Total for A.1 - As Submitted				201,921.30
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Name and Capacity	No of Units	No. of Hours	Hourly Rate	Amount
	Equipment				
	Concrete Chipper/Jackhammer	2	280.00	150.00	84,000.00
	Minor Tools (10% of Labor Cost)				20,192.13
	Sub - Total for B.1 - As Submitted				104,192.13
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				306,113.43
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				1.00
D.2	Output per hour - As Evaluated				
E.1	Direct Unit Cost (C.1 / D.1) - As Submitted				306,113.43
E.2	Direct Unit Cost (C.2 / D.2) - As Evaluated				
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount
	Materials				
	Volume of concrete to be demolished = 528.61 cu.m.				
	Sub - Total for F.1 - As Submitted				0.00
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1+ F.1) - As Submitted				306,113.43
G.2	Direct Unit Cost (E.2+ F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%	36,733.61
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1	Contractor's Profit (CP) - As Submitted			8%	24,489.07
I.2	Contractor's Profit (CP) - As Evaluated				
J.1	Value Added Tax (VAT) - As Submitted			5%	18,366.81
J.2	Value Added Tax (VAT) - As Evaluated				
K.1	Total Unit Cost - As Submitted				385,702.92
K.2	Total Unit Cost - As Evaluated				

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE
DETAILED UNIT PRICE ANALYSIS

Item No./Description : 803(1)a Structure Excavation (Common Soil, Manual Excavation)
 Unit of Measurement : cu.m.
 Output per hour - As Submitted : 1246.62 (Total Quantity)
 Output per hour - As Evaluated :

	Designation	No. of Person	No. of days	Daily Rate	Amount
A.1	Labor				
	Construction Foreman	1	60.00	749.70	44,982.00
	Skilled Laborer				
	Unskilled Laborer	6	60.00	418.29	150,584.40
	Sub - Total for A.1 - As Submitted				195,566.40
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Name and Capacity	Np of Units	No. of Hours	Hourly Rate	Amount
	Equipment				
	Minor Tools (10% of Labor Cost)				19,556.64
	Sub - Total for B.1 - As Submitted				19,556.64
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				215,123.04
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				1,246.62
D.2	Output per hour - As Evaluated				
E.1	Direct Unit Cost (C.1 / D.1) - As Submitted				172.57
E.2	Direct Unit Cost (C.2 / D.2) - As Evaluated				
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount
	Materials				
	Sub - Total for F.1 - As Submitted				0.00
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1+ F.1) - As Submitted				172.57
G.2	Direct Unit Cost (E.2+ F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%	20.71
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1	Contractor's Profit (CP) - As Submitted			8%	13.81
I.2	Contractor's Profit (CP) - As Evaluated				
J.1	Value Added Tax (VAT) - As Submitted			5%	10.35
J.2	Value Added Tax (VAT) - As Evaluated				
K.1	Total Unit Cost - As Submitted				217.43
K.2	Total Unit Cost - As Evaluated				

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE

DETAILED UNIT PRICE ANALYSIS

Item No./Description : 804(1)a Embankment from Structure Excavation
Unit of Measurement : cu.m.
Output per hour - As Submitted : 490.28 (Total Quantity)
Output per hour - As Evaluated :

	Designation	No. of Person	No. of days	Daily Rate	Amount
A.1	Labor				
	Construction Foreman	1	7.00	749.70	5,247.90
	Skilled Laborer				
	Unskilled Laborer	3	7.00	418.29	8,784.09
Sub - Total for A.1 - As Submitted					14,031.99
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Name and Capacity	No of Units	No. of Hours	Hourly Rate	Amount
	Equipment				
	Plate Compactor/Tamping Rammer (5 hp)	1	42.00	123.00	5,166.00
	Minor Tools (10% of Labor Cost)				1,403.20
Sub - Total for B.1 - As Submitted					6,569.20
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				20,601.19
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				490.28
D.2	Output per hour - As Evaluated				
E.1	Direct Unit Cost (C.1 / D.1) - As Submitted				42.02
E.2	Direct Unit Cost (C.2 / D.2) - As Evaluated				
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount
	Materials				
	Sub - Total for F.1 - As Submitted				0.00
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1+ F.1) - As Submitted				42.02
G.2	Direct Unit Cost (E.2+ F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%	5.04
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1	Contractor's Profit (CP) - As Submitted			8%	3.36
I.2	Contractor's Profit (CP) - As Evaluated				
J.1	Value Added Tax (VAT) - As Submitted			5%	2.52
J.2	Value Added Tax (VAT) - As Evaluated				
K.1	Total Unit Cost - As Submitted				52.94
K.2	Total Unit Cost - As Evaluated				

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE
DETAILED UNIT PRICE ANALYSIS

Item No./Description : 804(4) Gravel Bedding
 Unit of Measurement : cu.m.
 Output per hour - As Submitted : 435.20 (Total Quantity)
 Output per hour - As Evaluated :

Designation		No. of Person	No. of days	Daily Rate	Amount
A.1	Labor				
Construction Foreman		1	23.00	749.70	17,243.10
Skilled Laborer					
Unskilled Laborer		6	23.00	418.29	57,724.02
Sub - Total for A.1 - As Submitted					74,967.12
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
Name and Capacity		No of Units	No. of Hours	Hourly Rate	Amount
B.1	Equipment				
Minor Tools (10% of Labor Cost)					7,496.71
Sub - Total for B.1 - As Submitted					7,496.71
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				82,463.83
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				435.20
D.2	Output per hour - As Evaluated				
E.1	Direct Unit Cost (C.1 / D.1) - As Submitted				189.48
E.2	Direct Unit Cost (C.2 / D.2) - As Evaluated				
Name and Specification		Unit	Quantity	Unit Cost	Amount
F.1	Materials				
Gravel Bedding (G1)		cu.m	11.53	635.00	7,320.92
Fine Sand (for Sand Cushion) (w/ 5% Shrinkage Factor)		cu.m	423.68	500.00	211,837.50
Sub - Total for F.1 - As Submitted					219,158.42
F.2	Materials				
Sub - Total for F.2 - As Evaluated					
G.1	Direct Unit Cost (E.1+ F.1) - As Submitted				219,347.90
G.2	Direct Unit Cost (E.2+ F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%	26,321.75
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1	Contractor's Profit (CP) - As Submitted			8%	17,547.83
I.2	Contractor's Profit (CP) - As Evaluated				
J.1	Value Added Tax (VAT) - As Submitted			5%	13,160.87
J.2	Value Added Tax (VAT) - As Evaluated				
K.1	Total Unit Cost - As Submitted				276,378.35
K.2	Total Unit Cost - As Evaluated				

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE
DETAILED UNIT PRICE ANALYSIS

Item No./Description : 900(1)c1 Structural Concrete, 28 days
 Unit of Measurement : cu.m.
 Output per hour - As Submitted : 566.51 (Total Quantity)
 Output per hour - As Evaluated :

	Designation	No. of Person	No. of days	Daily Rate	Amount
A.1	Labor				
	Construction Foreman	1	60.00	749.70	44,982.00
	Skilled Laborer	8	60.00	541.90	260,112.00
	Unskilled Laborer	16	60.00	418.29	401,558.40
	Sub - Total for A.1 - As Submitted				706,652.40
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Name and Capacity	No of Units	No. of days	Daily Rate	Amount
	Equipment				
	One-bagger Concrete Mixer	1	60.00	1,376.00	82,560.00
	Minor Tools (10% of Labor Cost)				70,665.24
	Sub - Total for B.1 - As Submitted				153,225.24
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				859,877.64
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				566.51
D.2	Output per hour - As Evaluated				
E.1	Direct Unit Cost (C.1 / D.1) - As Submitted				1,517.85
E.2	Direct Unit Cost (C.2 / D.2) - As Evaluated				
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount
	Materials				
	Column Footing				
	Portland Cement, 40 kgs	bags	5099.00	265.00	1,351,235.00
	Fine Aggregates	cu.m	253.00	500.00	126,500.00
	Coarse Aggregates (G3/4)	cu.m	505.00	630.00	318,150.00
	Sub - Total for F.1 - As Submitted				1,795,885.00
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1+ F.1) - As Submitted				1,797,402.85
G.2	Direct Unit Cost (E.2+ F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%	215,688.34
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1	Contractor's Profit (CP) - As Submitted			8%	143,792.23
I.2	Contractor's Profit (CP) - As Evaluated				
J.1	Value Added Tax (VAT) - As Submitted			5%	107,844.17
J.2	Value Added Tax (VAT) - As Evaluated				
K.1	Total Unit Cost - As Submitted				2,264,727.60
K.2	Total Unit Cost - As Evaluated				

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE

DETAILED UNIT PRICE ANALYSIS

Item No./Description : 902(1)b Reinforcing Steel, Grade 60
 Unit of Measurement : kgs
 Output per hour - As Submitted : 6,487.36 (Total Quantity)
 Output per hour - As Evaluated :

	Designation	No. of Person	No. of days	Daily Rate	Amount
A.1	Labor Construction Foreman Skilled Laborer Unskilled Laborer	1 6 12	12.00 12.00 12.00	749.70 541.90 418.29	8,996.40 39,016.80 60,233.76
	Sub - Total for A.1 - As Submitted				108,246.96
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Name and Capacity Equipment Bar Cutter Bar Bender Minor Tools (10% of Labor Cost)	No of Units	No. of days	Daily Rate	Amount
	1 1 1	6.00 6.00	1,758.00 2,812.00	10,548.00 16,872.00	10,824.70
	Sub - Total for B.1 - As Submitted				38,244.70
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				146,491.66
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				6,487.36
D.2	Output per hour - As Evaluated				
E.1	Direct Unit Cost (C.1 / D.1) - As Submitted				22.58
E.2	Direct Unit Cost (C.2 / D.2) - As Evaluated				
F.1	Name and Specification Materials Deformed Bars, Grade 60 #16 G.I. Tie wire	Unit	Quantity	Unit Cost	Amount
	kgs kgs	6,487.36 111.00	41.00 70.00	265,981.76 7,770.00	
	Column Footing 12mmØ x 6m Deformed RSB	kgs	1,302.96		
	Column 12mmØ x 6m Deformed RSB 10mmØ x 6m Deformed RSB	kgs kgs	1,628.70 3,555.70		
	Sub - Total for F.1 - As Submitted				273,751.76
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1+ F.1) - As Submitted				273,774.34
G.2	Direct Unit Cost (E.2+ F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%	32,852.92
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1	Contractor's Profit (CP) - As Submitted			8%	21,901.95
I.2	Contractor's Profit (CP) - As Evaluated				
J.1	Value Added Tax (VAT) - As Submitted			5%	16,426.46
J.2	Value Added Tax (VAT) - As Evaluated				
K.1	Total Unit Cost - As Submitted				344,955.67
K.2	Total Unit Cost - As Evaluated				

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE

DETAILED UNIT PRICE ANALYSIS

Item No./Description	:	903(1) Forms and Falseworks
Unit of Measurement	:	L.S.
Output per hour - As Submitted	:	1.00
Output per hour - As Evaluated	:	

	Designation	No. of Person	No. of days	Daily Rate	Amount
A.1	Labor				
	Construction Foreman	1	12.00	749.70	8,996.40
	Skilled Laborer	6	12.00	541.90	39,016.80
	Unskilled Laborer	14	12.00	418.29	70,272.72
	Sub - Total for A.1 - As Submitted				118,285.92
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Name and Capacity	No of Units	No. of days	Daily Rate	Amount
Equipment					
	Minor Tools (10 % of Labor Cost)				11,828.59
	Sub - Total for B.1 - As Submitted				11,828.59
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				130,114.51
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				1.00
D.2	Output per hour - As Evaluated				
E.1	Direct Unit Cost (C.1 / D.1) - As Submitted				130,114.51
E.2	Direct Unit Cost (C.2 / D.2) - As Evaluated				
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount
Materials					
	Ordinary Plywood, 1/2" x 4'x8' (3 Uses)	pcs	39.00	695.00	27,105.00
	2"x3" Form Lumber, Tanguile (3 Uses)	bd.ft	1803.00	55.00	99,165.00
	Consumables (5% of Material Cost)				132,583.50
	Sub - Total for F.1 - As Submitted				258,853.50
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1+ F.1) - As Submitted				388,968.01
G.2	Direct Unit Cost (E.2+ F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%	46,676.16
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1	Contractor's Profit (CP) - As Submitted			8%	31,117.44
I.2	Contractor's Profit (CP) - As Evaluated				
J.1	Value Added Tax (VAT) - As Submitted			5%	23,338.08
J.2	Value Added Tax (VAT) - As Evaluated				
K.1	Total Unit Cost - As Submitted				490,099.70
K.2	Total Unit Cost - As Evaluated				

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE

DETAILED UNIT PRICE ANALYSIS

Item No./Description : 1100(10) Conduits, Boxes and Fittings (Conduit Works/Conduit Rough-in)
 Unit of Measurement : L.S.
 Output per hour - As Submitted : 1.00
 Output per hour - As Evaluated :

Designation		No. of Person	No. of days	Daily Rate	Amount
A.1	Labor				
Construction Foreman		1	23.00	749.70	17,243.10
Skilled Laborer		2	23.00	541.90	24,927.40
Unskilled Laborer		4	23.00	418.29	38,482.68
Sub - Total for A.1 - As Submitted					80,653.18
A.2	Labor				
Sub - Total for A.2 - As Evaluated					
Name and Capacity		No of Units	No. of days	Daily Rate	Amount
B.1	Equipment				
Minor Tools (10% of Labor Cost)					8,065.32
Sub - Total for B.1 - As Submitted					8,065.32
B.2	Equipment				
Sub - Total for B.2 - As Evaluated					
C.1	Total (A.1 + B.1) - As Submitted				88,718.50
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				1.00
D.2	Output per hour - As Evaluated				
E.1	Direct Unit Cost (C.1 / D.1) - As Submitted				88,718.50
E.2	Direct Unit Cost (C.2 / D.2) - As Evaluated				
Name and Specification		Unit	Quantity	Unit Cost	Amount
F.1	Materials				
20mm dia PVC Pipe (3/4")		pcs.	1,034.00	92.00	95,128.00
20mm dia PVC Elbow (3/4")		pcs.	350.00	18.00	6,300.00
25mm dia PVC Pipe (1")		pcs.	1,176.00	120.00	141,120.00
25mm dia PVC Elbow (1")		pcs.	298.00	18.00	5,364.00
Service Entrance Cap (3/4" dia)		pcs.	5.00	95.00	475.00
Service Entrance Cap (1" dia)		pcs.	1.00	195.00	195.00
Eyebolt (3/4" galvanized iron)		pcs.	5.00	120.00	600.00
Eyebolt (1" galvanized iron)		pcs.	1.00	120.00	120.00
Consumables (5% of Material Cost)					12,465.10
Sub - Total for F.1 - As Submitted					261,767.10
F.2	Materials				
Sub - Total for F.2 - As Evaluated					
G.1	Direct Unit Cost (E.1+ F.1) - As Submitted				350,485.60
G.2	Direct Unit Cost (E.2+ F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%	42,058.27
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1	Contractor's Profit (CP) - As Submitted			8%	28,038.85
I.2	Contractor's Profit (CP) - As Evaluated				
J.1	Value Added Tax (VAT) - As Submitted			5%	21,029.14
J.2	Value Added Tax (VAT) - As Evaluated				
K.1	Total Unit Cost - As Submitted				441,611.85
K.2	Total Unit Cost - As Evaluated				

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE

DETAILED UNIT PRICE ANALYSIS

Item No./Description	: 1101(33) Wires and Wiring Devices
Unit of Measurement	: L.S.
Output per hour - As Submitted	: 1.00
Output per hour - As Evaluated	:

	Designation	No. of Person	No. of days	Daily Rate	Amount
A.1	Labor				
	Construction Foreman	1	25.00	749.70	18,742.50
	Skilled Laborer	6	25.00	541.90	81,285.00
	Unskilled Laborer	6	25.00	418.29	62,743.50
	Sub - Total for A.1 - As Submitted				162,771.00
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Name and Capacity	No of Units	No. of days	Daily Rate	Amount
	Equipment				
	Minor Tools (10% of Labor Cost)				16,277.10
	Sub - Total for B.1 - As Submitted				16,277.10
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				179,048.10
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				1.00
D.2	Output per hour - As Evaluated				
E.1	Direct Unit Cost (C.1 / D.1) - As Submitted				179,048.10
E.2	Direct Unit Cost (C.2 / D.2) - As Evaluated				
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount
	Materials				
	3.5 mm ² THHN Wire	m.	2,745.00	24.00	65,880.00
	5.5 mm ² THHN Wire	m.	6,283.00	27.00	169,641.00
	8.0 mm ² THHN Wire	m.	6,240.00	57.00	355,680.00
	22 mm ² THHN Wire	m.	7,052.00	141.00	994,332.00
	Electrical Tape (3/4" X 20 yds)	pcs	144.00	40.00	5,760.00
	Rubber Tape	pcs	71.00	65.00	4,615.00
	Solvent Cement (400 cc)	cans	79.00	190.00	15,010.00
	Grounding Rod 20mm dia X 3m copper weld	pcs	6.00	1,040.00	6,240.00
	Grounding Clamp 20mm dia Grounding Rod	pcs	6.00	80.00	480.00
	Solderless Connector for 8.0mm ² THHN Wire	pcs	426.00	65.00	27,690.00
	Solderless Connector for 22mm ² THHN Wire	pcs	260.00	100.00	26,000.00
	Meter Base	pcs	6.00	500.00	3,000.00
	Consumables (3% of Material Cost)				50,229.84
	Sub - Total for F.1 - As Submitted				1,724,557.84
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1+ F.1) - As Submitted				1,903,605.94
G.2	Direct Unit Cost (E.2+ F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%	228,432.71
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1	Contractor's Profit (CP) - As Submitted			8%	152,288.48
I.2	Contractor's Profit (CP) - As Evaluated				
J.1	Value Added Tax (VAT) - As Submitted			5%	114,216.36
J.2	Value Added Tax (VAT) - As Evaluated				

K.1	Total Unit Cost - As Submitted		
K.2	Total Unit Cost - As Evaluated		2,398,543.48

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE

DETAILED UNIT PRICE ANALYSIS

Item No./Description : 1102(1) Panelboard with Main & Branch Breakers
 Unit of Measurement : L.S.
 Output per hour - As Submitted : 1.00
 Output per hour - As Evaluated :

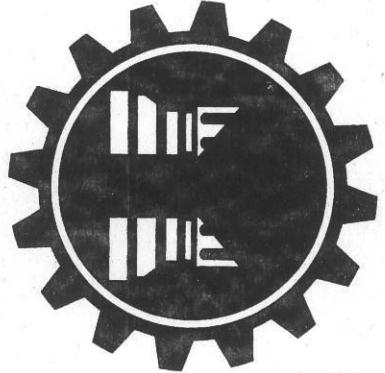
	Designation	No. of Person	No. of days	Daily Rate	Amount
A.1	Labor Construction Foreman Skilled Laborer Unskilled Laborer Sub - Total for A.1 - As Submitted	1 1 2	2.00 2.00 2.00	749.70 541.90 418.29	1,499.40 1,083.80 1,673.16 4,256.36
A.2	Labor Sub - Total for A.2 - As Evaluated				
B.1	Name and Capacity Equipment Minor Tools (10% of Labor Cost) Sub - Total for B.1 - As Submitted		No of Units	No. of days	Daily Rate
B.2	Equipment Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				4,682.00
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				1.00
D.2	Output per hour - As Evaluated				
E.1	Direct Unit Cost (C.1 / D.1) - As Submitted				4,682.00
E.2	Direct Unit Cost (C.2 / D.2) - As Evaluated				
F.1	Name and Specification Materials Panelboard "LPA" in Nema 3R Enclosure Main : 40AT, 2P, 230V, 22kAIC Branches : 2 - 20AT, 2P, 230V Panelboard "LPA" in Nema 3R Enclosure Main : 40AT, 2P, 230V, 22kAIC Branches : 4 - 20AT, 2P, 230V Panelboard "LPA" in Nema 3R Enclosure Main : 80AT, 2P, 230V, 22kAIC Branches : 8 - 20AT, 2P, 230V Consumables (3% of Material Cost) Sub - Total for F.1 - As Submitted	Unit	Quantity	Unit Cost	Amount
F.2	Materials Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1+ F.1) - As Submitted				45,058.00
G.2	Direct Unit Cost (E.2+ F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%	5,406.96
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1	Contractor's Profit (CP) - As Submitted			8%	3,604.64
I.2	Contractor's Profit (CP) - As Evaluated				
J.1	Value Added Tax (VAT) - As Submitted			5%	2,703.48
J.2	Value Added Tax (VAT) - As Evaluated				

K.1	Total Unit Cost - As Submitted			
K.2	Total Unit Cost - As Evaluated			56,773.07

CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD, CURRIMAO, ILOCOS NORTE
DETAILED UNIT PRICE ANALYSIS

Item No./Description : 1103(1) Lighting Fixtures and Lamps
 Unit of Measurement : L.S.
 Output per hour - As Submitted : 1.00
 Output per hour - As Evaluated :

Designation		No. of Person	No. of days	Daily Rate	Amount
A.1	Labor				
Construction Foreman		1	26.00	749.70	19,492.20
Skilled Laborer		12	26.00	541.90	169,072.80
Unskilled Laborer		12	26.00	418.29	130,506.48
Sub - Total for A.1 - As Submitted					319,071.48
A.2	Labor				
Sub - Total for A.2 - As Evaluated					
Name and Capacity		No of Units	No. of days	Daily Rate	Amount
B.1	Equipment				
Truck Mounted Crane (20-25mT, 200hp)		1	18.00	13,048.00	234,864.00
Minor Tools (10% of Labor Cost)					31,907.15
Sub - Total for B.1 - As Submitted					266,771.15
B.2	Equipment				
Sub - Total for B.2 - As Evaluated					
C.1	Total (A.1 + B.1) - As Submitted				585,842.63
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				1.00
D.2	Output per hour - As Evaluated				
E.1	Direct Unit Cost (C.1 / D.1) - As Submitted				
E.2	Direct Unit Cost (C.2 / D.2) - As Evaluated				585,842.63
Name and Specification		Unit	Quantity	Unit Cost	Amount
F.1	Materials				
Castle Lantern w/ Decorative Post and Base, 19 Watts Warm White Led Bulb		pcs	305.000	20,750.00	6,328,750.00
Sub - Total for F.1 - As Submitted					6,328,750.00
F.2	Materials				
Sub - Total for F.2 - As Evaluated					
G.1	Direct Unit Cost (E.1+ F.1) - As Submitted				6,914,592.63
G.2	Direct Unit Cost (E.2+ F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%	829,751.12
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1	Contractor's Profit (CP) - As Submitted			8%	553,167.41
I.2	Contractor's Profit (CP) - As Evaluated				
J.1	Value Added Tax (VAT) - As Submitted			5%	414,875.56
J.2	Value Added Tax (VAT) - As Evaluated				
K.1	Total Unit Cost - As Submitted				8,712,386.71
K.2	Total Unit Cost - As Evaluated				



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS & HIGHWAYS
REGIONAL OFFICE NO. 1
ILOCOS NORTE SECOND DISTRICT ENGINEERING OFFICE
SAN PABLO, SAN NICOLAS, ILOCOS NORTE

F.Y. 2021 LOCAL INFRASTRUCTURE PROGRAM

DETAILED PLAN FOR

**CONSTRUCTION / INSTALLATION OF STREETLIGHTS
ALONG SEAWALL BOULEVARD,
CURRIMAO ILOCOS NORTE**

CHECKED AND SUBMITTED BY:


SUSAN P. SIMEON
CHIEF PLANNING AND DESIGN SECTION

RECOMMENDING APPROVAL:


SHERRELL S. PE BENITO
OIC, ASSISTANT DISTRICT ENGINEER

APPROVED:


MATHIAS L. MALENAB
DISTRICT ENGINEER

GENERAL NOTES

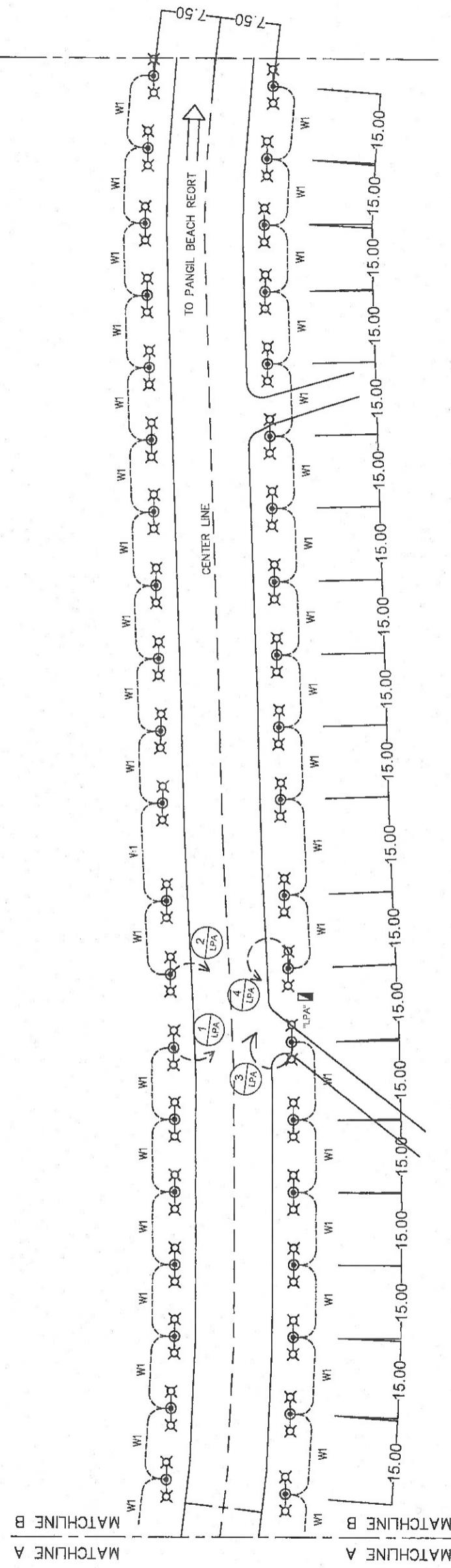
1. ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE THE LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES.
2. THE CONTRACTOR SHALL SECURE ALL PERMITS AND ALL FEES REQUIRED FOR THE WORK AND FURNISH THE OWNER THROUGH THE ENGINEERS FINAL CERTIFICATE OF ELECTRICAL INSPECTION AND APPROVAL FROM THE PROPER GOVERNMENT AUTHORITIES FOR COMPLETE WORK.
3. THE ELECTRICAL SERVICE VOLTAGE SHALL BE 220V, SINGLE PHASE 2W, 60HZ, ALL MATERIALS TO BE USED AND EQUIPMENT TO BE INSTALLED SHALL BE OF BRAND NEW AND SHALL BE OF THE APPROVED TYPES FOR THE PARTICULAR LOCATION AND PURPOSE INTENDED.
4. ALL WIRES SHALL BE COPPER 3.5mm² MINIMUM AND THERMOPLASTIC INSULATED TYPE THHN/THWN, UNLESS OTHERWISE INDICATED. PHELPS DODGE OR ANY APPROVED EQUAL SHALL BE USED.
5. BOXES SHALL BE OF STEEL, ZINC CHROMATE PROTECTED.
6. ALL UNDERGROUND CONDUIT PIPES SHALL BE UNPLASTICIZED POLYVINYL CHLORIDE CONDUIT(PVC) SCHEDULE 40 OR POLY ETHYLENE PIPE AS MANUFACTURED BY FREEMAN, NELTEX OR APPROVED EQUAL PROVIDE INTERMEDIATE STEEL CONDUITS (MATSUSHITA OR APPROVED EQUAL) WHERE SHOWN IN THE DRAWINGS.
7. THE CONTRACTOR SHALL VERIFY AND ORIENT THE SERVICE ENTRANCE FOR THE CONNECTION TO THE POWER SUPPLY, Likewise THE CONCRETE PEDESTAL SHALL BE PROVIDED BY THE CONTRACTOR.
8. PROVIDE 20mm x 304mm COPPER CLAD GROUND ROD AS SHOWN ON THE DRAWINGS.
9. UNDERGROUND CONDUIT RUNS SHALL BE BURIED AT A MINIMUM OF 600mm BELOW GROUND LEVEL CONDUIT RUN CROSSING STREET SHALL BE ENCAUSED IN STEEL BAR THICK REINFORCED, 2500psi CONCRETE WITH MINIMUM OF 75mm (3INCHES) COVER ALL AROUND.
10. UNPROTECTED CONDUIT RISERS AND EXPOSED CONDUIT RUNS SHALL BE IN INTERMEDIATE STEEL CONDUITS. (IMC)
11. ALL PANELBOARD ENCLOSURES SHALL BE RAIN TIGHT NEMA-4x ENCLOSURE, 11.3MM THK, MINIMUM GAUGE #14 FOR BOX AND COVER, THE PANELBOARD SHALL BE SURFACE MOUNTED WITH CONCEALED TRIM CLAMPS.
12. CIRCUIT RUNS SHALL BE PROVIDED WITH A THHN GROUND WIRE (PE PLEASE REFER TO LOAD SCHEDULE FOR THE SIZES OF CONDUIT AND WIRES) THIS GROUND WIRE SHALL BE TERMINATED AT THE PANEL BOARD LOCATION AT ALL STREET LIGHT POLE LOCATIONS, ALL METAL SURFACES SHALL LICENSE BE GROUNDED.
13. ALL STREET LUMINAIRE ASSEMBLY SHALL INCLUDES POLE AND FOUNDATION WITH STAND UP TO 250MPH GUSTING WINDS WITHOUT PERMANENT DEFORMATION.
14. DO NOT INSTALL POLE WITHOUT COMPLETE INSTALLATION/CONNECTION ASSEMBLY.
15. IN THE EVENT THAT SOME EXISTING STREET LIGHT POSTS HAVE TO BE RETIRED AND REMOVED, AND SOME TO BE RETAINED, THE CONTRACTOR SHALL PROVIDE THE NECESSARY RECONNECTIONS TO COMPLETE THE CIRCUIT OF THE RETAINED LIGHT POST AND MAKE THESE OPERATIONAL. REMOVAL, RESTORATION, RECONNECTION ETC. SHALL BE INCLUDED IN CONTRACTOR'S BID PROPOSAL.
16. THE ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF THE DULY REGISTERED ELECTRICAL ENGINEER.

ELECTRICAL SYMBOLS

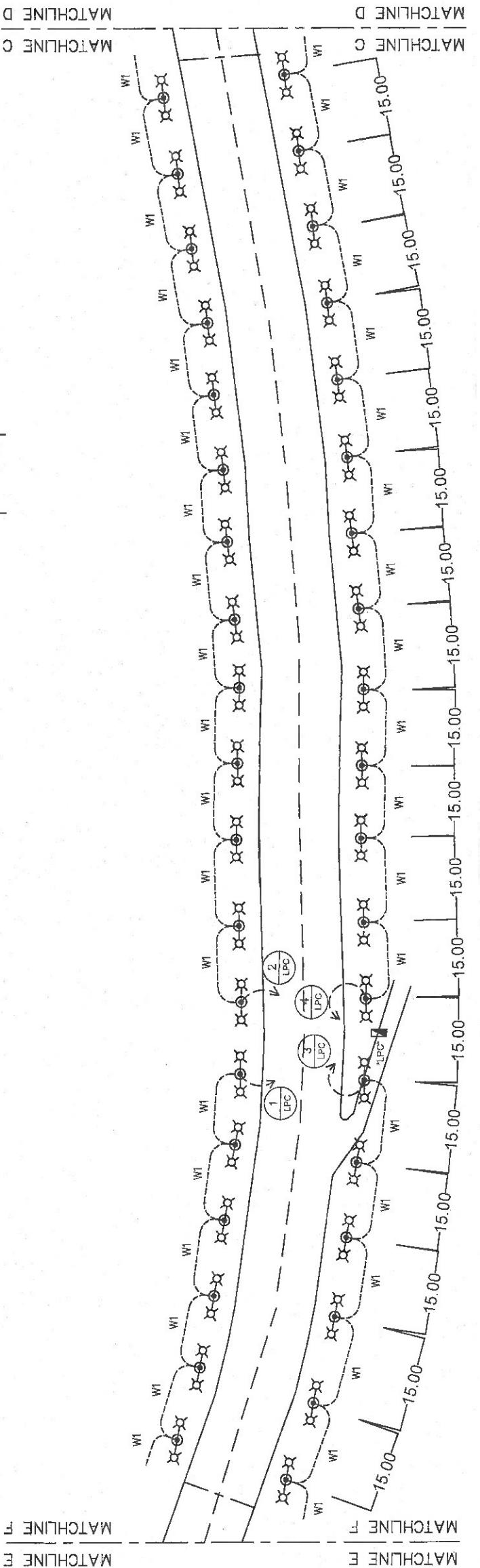
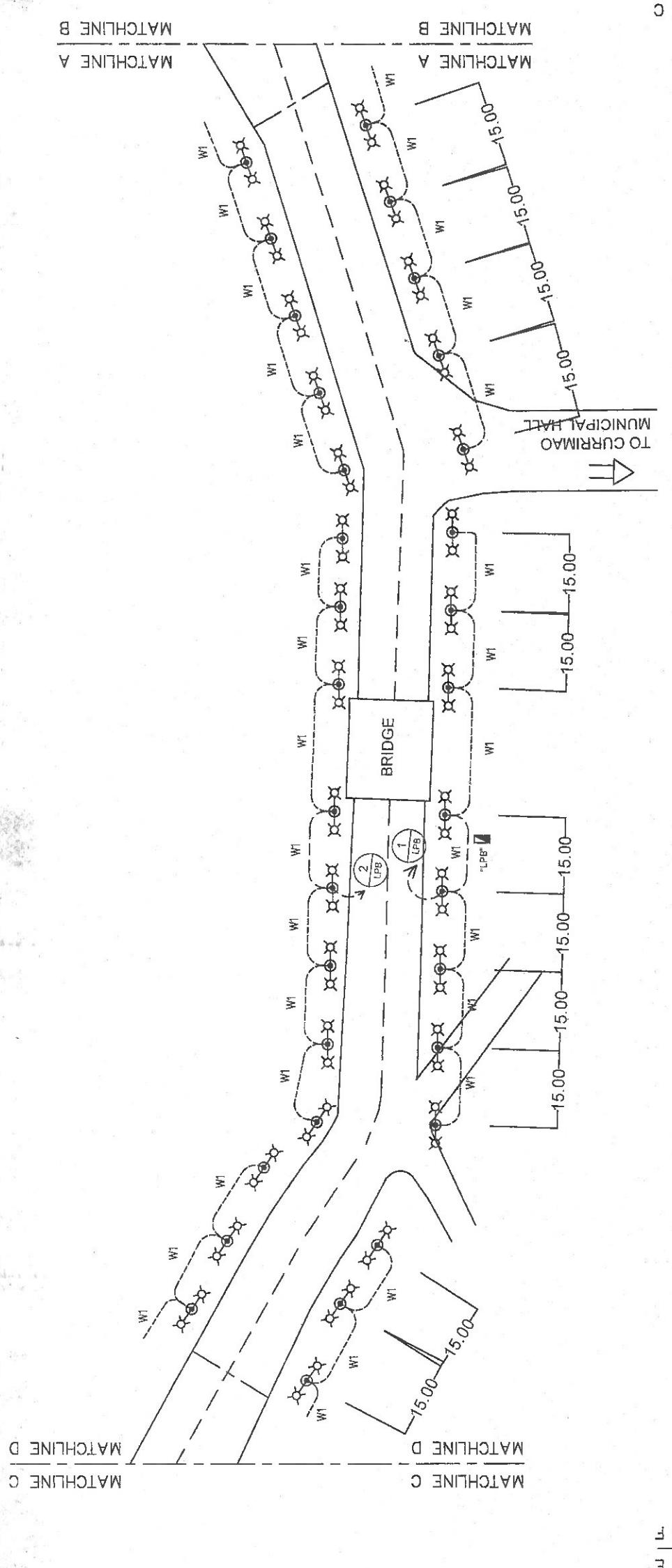
SYMBOL	DESCRIPTION
	CASTLE LANTERN WITH DECORATIVE POST AND BASE, 2-19 WATTS WARM WHITE LED BULB
	RACEWAY CONDUIT CONCEALED UNDER PAVEMENT
	PANEL BOARD (NEMA 4X), MARKED AS "LP"
	CIRCUIT BREAKER, RATING AS INDICATED
	CIRCUIT BREAKER
	SERVICE ENTRANCE
	SERVICE METER
	- 2 - 0.0mm ² THHN WIRE + 1 - 5.5mm ² THHN WIRE IN 20mm dia. PVC
	- 2 - 22mm ² THHN WIRE + 1 - 5.5mm ² THHN WIRE IN 20mm dia. PVC

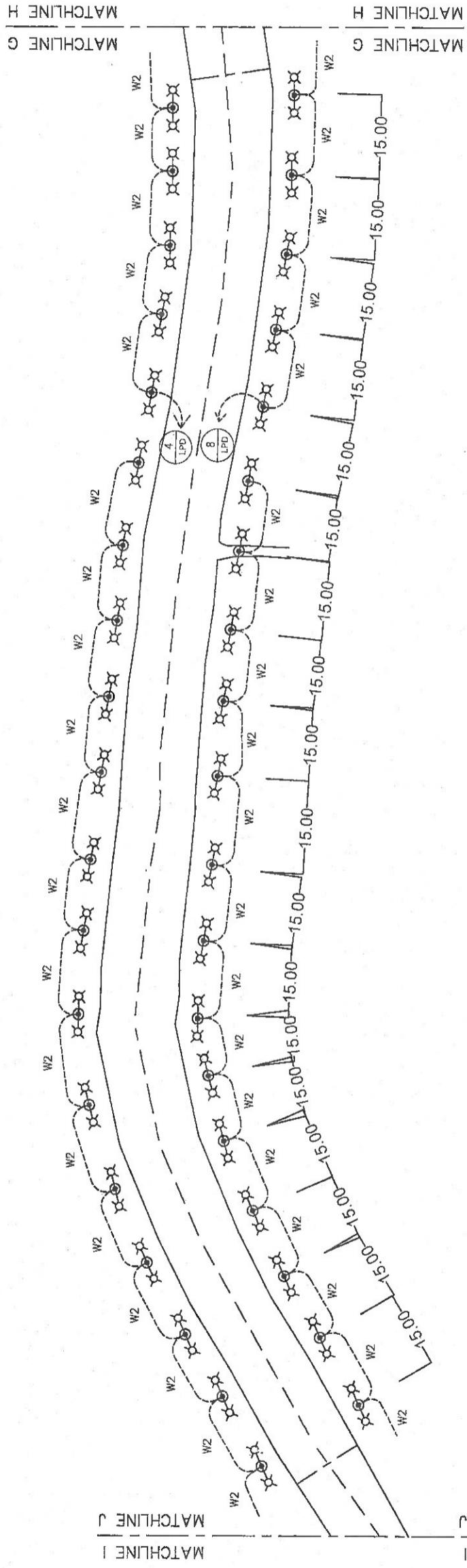
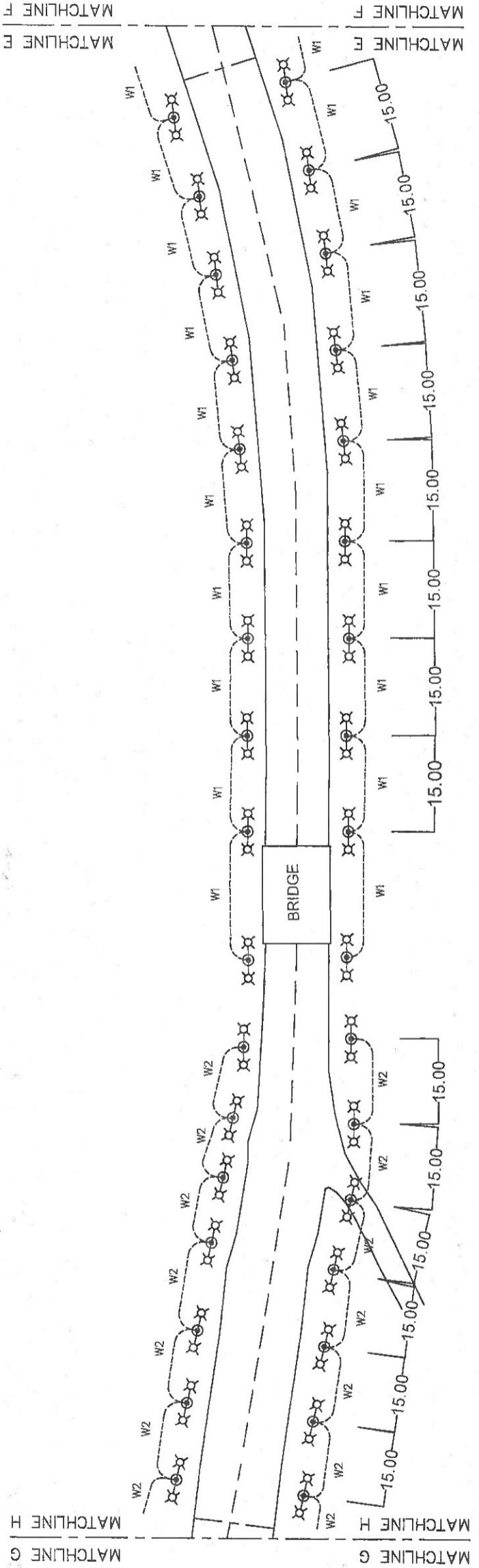
VICINITY MAP

NOT TO SCALE

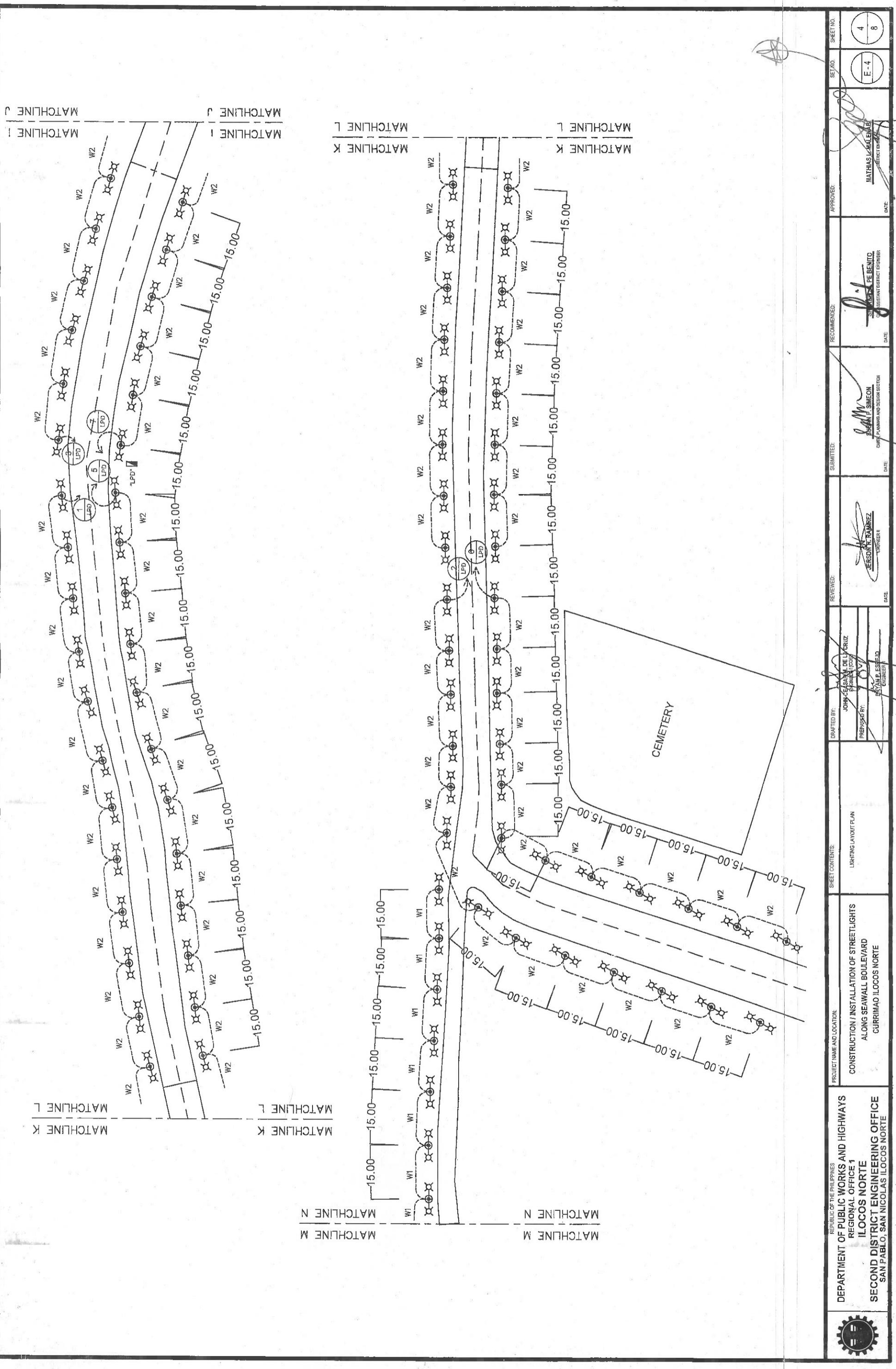


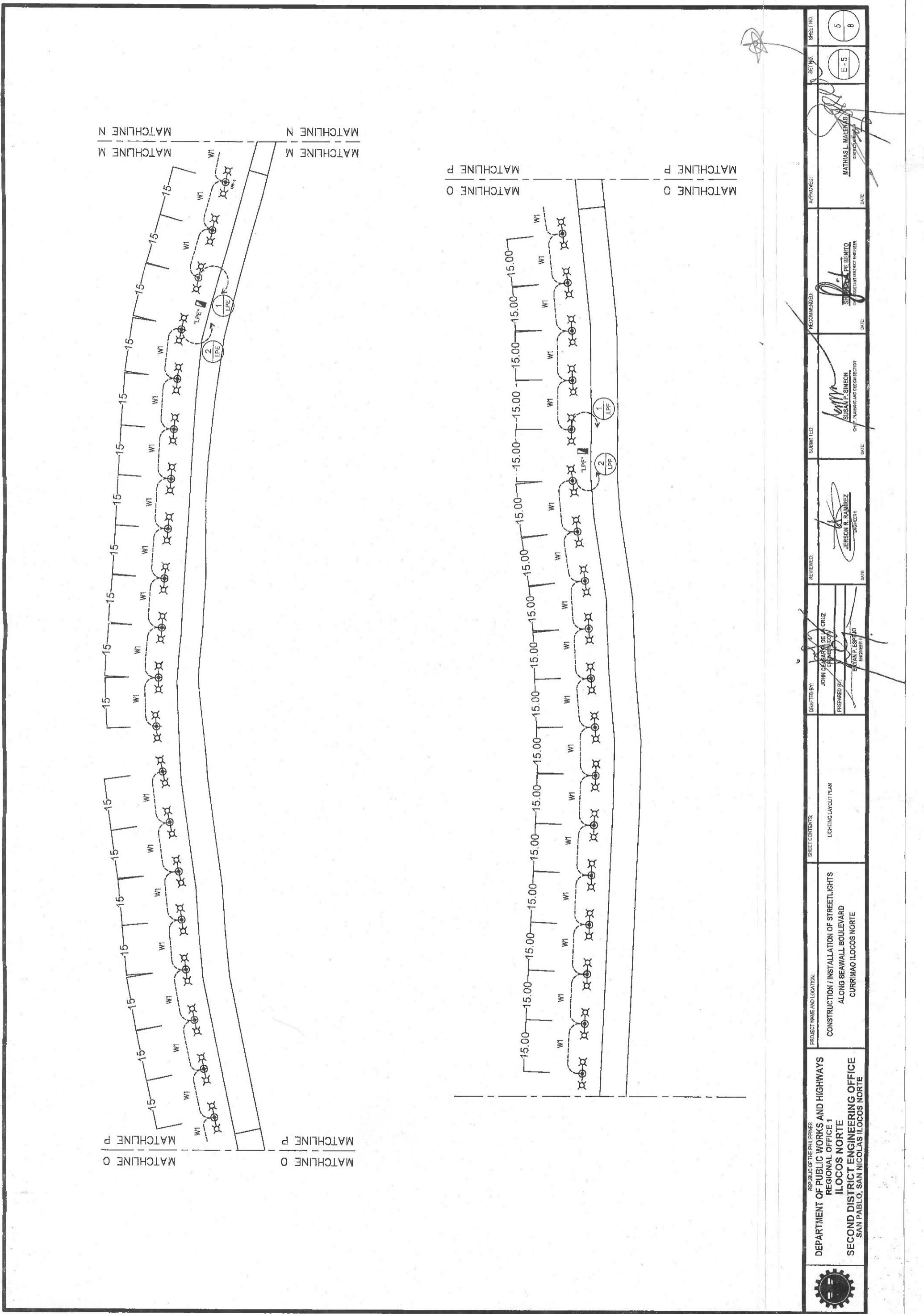
REPUBLIC OF THE PHILIPPINES REGIONAL OFFICE 4 ILOCOS NORTE SECOND DISTRICT ENGINEERING OFFICE SAN PABLO, SAN NICOLAS, ILOCOS NORTE	PROJECT NAME AND LOCATION: CONSTRUCTION/INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD CURRIMA, ILOCOS NORTE	RECOMMENDED:	APPROVED: 	DRAWN BY: JOHN CRISTIAN DE ACUZA ENGINEER	SUBMITTED: 	REVIEWED: 	PREPARED BY: BRYAN P. ERBIO ENGINEER	SHEET NO. 1
		SHEET CONTENTS: GENERAL NOTES VICINITY MAP ELECTRICAL SYMBOLS LIGHTING LAYOUT PLAN						
		MATHIAS L. MALENA DISTRICT ENGINEER	SHEILA S. BENITO CHIEF PLANNING AND DESIGN SECTION					
		DATE:	DATE:					





REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE 1 ILOCOS NORTE SECOND DISTRICT ENGINEERING OFFICE SAN NICOLAS, ILLOCOS NORTE	PROJECT NAME AND LOCATION CONSTRUCTION INSTALLATION OF STREETLIGHTS ALONG SEAWALL BOULEVARD CURRIHAI, ILLOCOS NORTE	SHEET CONTENTS: LIGHTING LAYOUT PLAN	RECOMMENDED: <i>[Signature]</i>	APPROVED: <i>[Signature]</i>
		JOHN CECILIA VERA CRUZ SENIOR PLANNING AND DESIGN SECTION DATE:		
DRAFTED BY: <i>[Signature]</i> JOHN CECILIA VERA CRUZ PREPARED BY: <i>[Signature]</i> BRYAN P. ESPED ENGINEER II DATE:	REVIEWED: <i>[Signature]</i> JOHN CECILIA VERA CRUZ DATE:	SUBMITTED: <i>[Signature]</i> MATIAS L. MALEJAS DISTRICT ENGINEER DATE:		
		SPRING E-3 3 8	SHEET NO. 3 8	





Circuit No.	Feeder Line No.1 Load Description	Watts per unit	Quantity	System Volts	VA per Circuit	Amp. per Circuit	Wires and Cables			Conduit	Feeder Length (ft.)
							A _T	Line+Line	Ground		
1	Park Light	100	13	230	1300	5.65	20	2-8.0mm ² THHN	1-5.5mm ² THHN	20mm dia. PVC (3/4" dia. PVC)	672.4
2	Park Light	100	12	230	1200	5.22	20	2-8.0mm ² THHN	1-5.5mm ² THHN	20mm dia. PVC (3/4" dia. PVC)	672.4
3	Park Light	100	13	230	1300	5.85	20	2-8.0mm ² THHN	1-5.5mm ² THHN	20mm dia. PVC (3/4" dia. PVC)	672.4
4	Park Light	100	12	230	1200	5.22	20	2-8.0mm ² THHN	1-5.5mm ² THHN	20mm dia. PVC (3/4" dia. PVC)	672.4

ANEL BOARD: LPA (Brgy. Poblacion 1)

or Main Protective Device: 40A^T, 2P, 22kAIC, 230VAC Circuit Breaker in Nema 3R Enclosure
or Main Feeder: 2 - 8.0mm² THHN + 1 - 5.5mm² THHN(G) in 20mm dia. PVC

PANEL BOARD: LPB (Brgy. Poblacion 2)										
Circuit No.	Feeder Line No. 2		Wires and Cables			Conduit (ft.)				
	Load Description	Watts per unit	Quantity	System Volts	VA per Circuit					
1	Park Light	100	6	230	800	3.48	20	2-8.0mm ² THHN 1-5.5mm ² THHN	20mm dia. PVC (3/4" dia. PVC)	208.28
2	Park Light	100	8	230	800	3.48	20	2-8.0mm ² THHN 1-5.5mm ² THHN	20mm dia. PVC (3/4" dia. PVC)	208.28

Total: 1000

For Main Protective Device: 40AT, 2P, 22kAic, 230VAC Circuit Breaker

For Main Feeder: 2 - 8.0mm² THHN 1 - 5.5mm² THHN(G)

For Main Protective Device: 40AT, 2P, 22kAIC, 230VAC Circuit Breaker in Nema 3R Enclosure
 For Main Feeder: 2 - 8.0mm² THHN + 1 - 5.5mm² THHN(G) in 20mm dia. PVC

Circuit No.	Feeder Line No. 3 Load Description	Wires and Cables			Conduit	Feeder Length (ft.)					
		Watts per unit	Quantity	VA per Circuit Volts	Amp. per Circuit						
1	Park Light	100	16	230	1600	6.96	20	2.80mm ² THHN	1.55mm ² THHN	20mm dia. PVC (3/4" dia. PVC)	787.2
2	Park Light	100	16	230	1600	6.96	20	2.80mm ² THHN	1.55mm ² THHN	20mm dia. PVC (3/4" dia. PVC)	787.2
3	Park Light	100	16	230	1600	6.96	20	2.80mm ² THHN	1.55mm ² THHN	20mm dia. PVC (3/4" dia. PVC)	787.2
4	Park Light	100	16	230	1600	6.96	20	2.80mm ² THHN	1.55mm ² THHN	20mm dia. PVC (3/4" dia. PVC)	787.2

or Main Protective Device: 40AT, 2P, 22kAic, 230VAC Circuit Breaker in Nema 3R Enclosure.

Z	Park Light	100	13	230	1300	3.00	2600	11.30
					Total:			

PANEL BOARD: LPD (Brgy. Torre)

For Main Protective Device: 30AT, 2P, 22Kaic, 230V/AC Circuit Breaker in Nema 3R Enclosure
 For Main Feeder: 2 - 22mm² THHN+N + 1 - 8.0mm² THHN[G] in 25mm dia. PVC

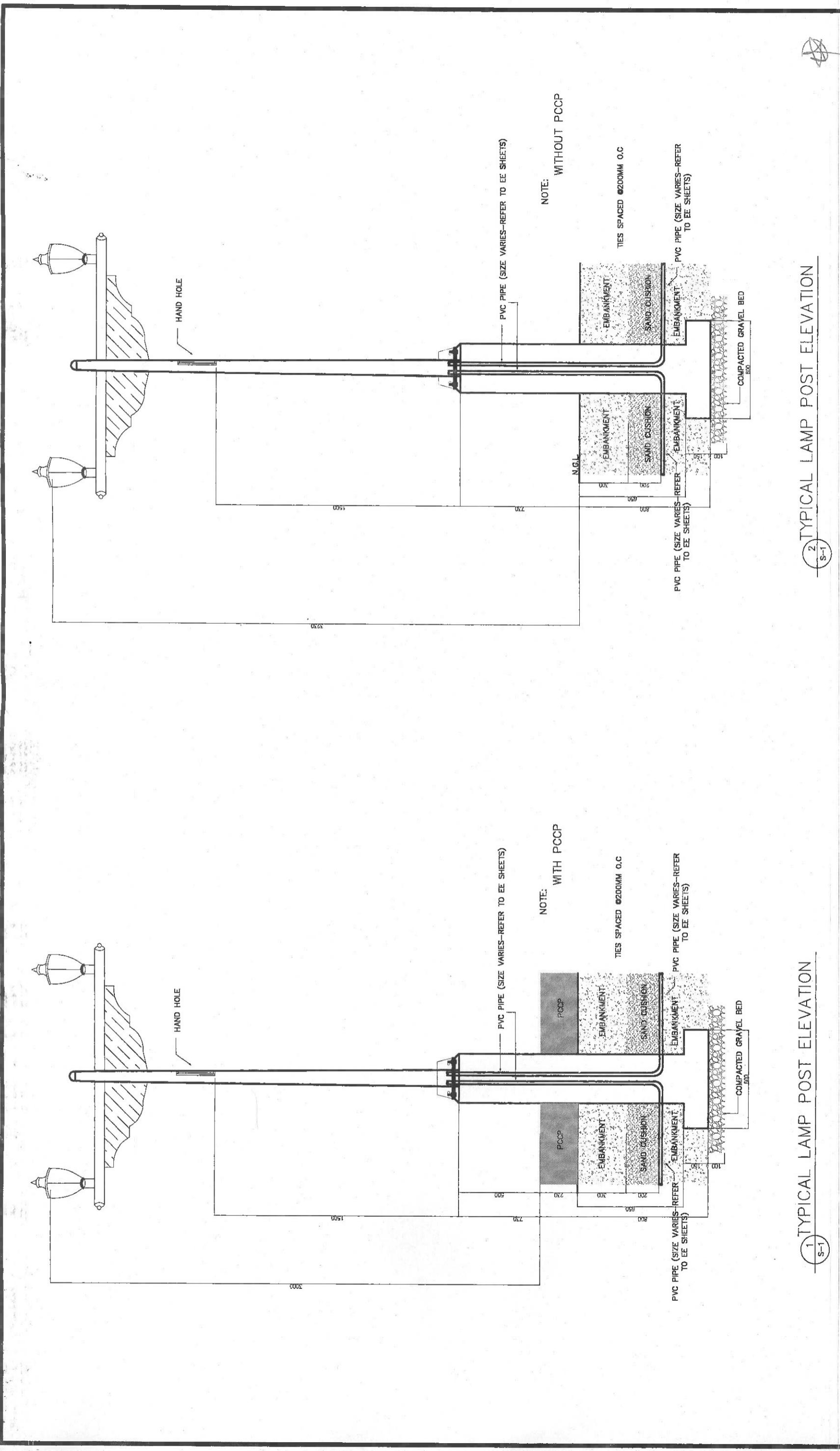
Circuit No.	Feeder Line No. 4		Watts per unit	Quantity	System Volts	VA per Circuit	Amp. per Circuit	C.B. 22 KAIC		Wires and Cables		Conduit	Feeder Length (ft.)
	Load Description	AT						Line-to-Line	Ground				
1	Park Light	100	20	230	2000	870	20	2.22mm ² THHN	1.8-0mm ² THHN	25mm dia. PVC (1" dia. PVC)	789.66		
2	Park Light	100	13	230	1300	565	20	2.22mm ² THHN	1.8-0mm ² THHN	25mm dia. PVC (1" dia. PVC)	1579.32		
3	Park Light	100	20	230	2000	870	20	2.22mm ² THHN	1.8-0mm ² THHN	25mm dia. PVC (1" dia. PVC)	789.66		
4	Park Light	100	12	230	1200	522	20	2.22mm ² THHN	1.8-0mm ² THHN	25mm dia. PVC (1" dia. PVC)	1579.32		
5	Park Light	100	20	230	2000	870	20	2.22mm ² THHN	1.8-0mm ² THHN	25mm dia. PVC (1" dia. PVC)	789.66		
6	Park Light	100	13	230	1300	565	20	2.22mm ² THHN	1.8-0mm ² THHN	25mm dia. PVC (1" dia. PVC)	1579.32		
7	Park Light	100	20	230	2000	870	20	2.22mm ² THHN	1.8-0mm ² THHN	25mm dia. PVC (1" dia. PVC)	789.66		
8	Park Light	100	12	230	1200	522	20	2.22mm ² THHN	1.8-0mm ² THHN	25mm dia. PVC (1" dia. PVC)	1579.32		

PANEL BOARD: LPE (Brug; Torre)

For Main Protective Device: 40AT, 2P, 22kAic, 230VAC Circuit Breaker in Neutra 3R Enclosure
For Main Feeder: 2 - 8.0mm² THHN + 1 - 5.5mm² THHN[G] in 20mm dia. PVC

PANEL BOARD: LPF (Brgy. Salugan)							Conduit	Feeder Length (ft.)
Circuit No.	Feeder Line No. 6 Load Description	Watts per unit	Quantity	System Volts	Amp. per Circuit	C. B. 22 KA/c	Wires and Cables	
					AT	Line+Line	Ground	
1	Park Light	100	13	230	1300	5.65	2-8.0mm ² THHN	1-5.5mm ² THHN (3/4" dia. PVC)
2	Park Light	100	13	230	1300	5.65	2-8.0mm ² THHN	1-5.5mm ² THHN (3/4" dia. PVC)

PROFESSOR
C.
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE 1
ILOCOS NORTE
SECOND DISTRICT ENGINEERING OFFICE
SAN JUAN, ILOCOS NORTE



REPUBLIC OF THE PHILIPPINES REGIONAL OFFICE 1 ILLOCOS NORTE SECOND DISTRICT ENGINEERING OFFICE SAN NICOLAS, SAN PABLO, ILLOCOS NORTE	SHEET CONTENTS: GENERAL NOTES VICINITY MAP ELECTRICAL SYMBOLS LIGHTING LAYOUT PLAN	DRAINED BY: JOANNA MARG SANAGA ENGINEER I CO. 3	REVIEWED: JOSEPH P. SIMEON CHIEF PLANNING AND DESIGN SECTION	APPROVED: SHIRLEY S. BENITO ASSISTANT DISTRICT ENGINEER DATE: 10/10/2010	APPROVED: MATHIAS MATEAR DISTRICT ENGINEER DATE: 10/10/2010	SHEET NO. REF. NO. S-1 S-1
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