

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS LAGUNA 3rd DISTRICT ENGINEERING OFFICE

Mariflor Subd., Brgy. Del Remedio, San Pablo City, Region IV-A

C.Y. 2025 PROJECT DETAILED ENGINEERING DESIGN PLAN FOR

CONVERGENCE AND SPECIAL SUPPORT PROGRAM SPECIAL ROAD FUND - MOTOR VEHICLE USER'S CHARGE (MVUC) AS PER R.A.11239 INSTALLATION OF SOLAR STREET LIGHTS ALONG

CALAUAN - NAGCARLAN BDRY. RD. -K0077+(-930) - K0090+153

LOCATION: NAGCARLAN, LAGUNA

START: 14.166984, 121.338965; END: 14.133741, 121.415459

REVIEWED & SUBMITTED: APPROVED:

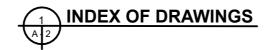
MA. SHIRLEY M. SAMIANO

CHIEF, PLANNING & DESIGN SECTION CONCURRENT CAPACITY AS OFFICER-IN-CHARGE OFFICE OF THE ASSISTANT DISTRICT ENGINEER **CARLOS C. MUERE**

ASSISTANT DISTRICT ENGINEER
CONCURRENT CAPACITY AS OFFICER-IN-CHARGE
OFFICE OF THE DISTRICT ENGINEER

DATE:

DATE:



A. GENERAL

+ COVER SHEET

+ INDEX OF DRAWINGS

16

+ LAYOUT PLAN + VICINITY

+ KEY MAP

+ GENERAL CONSTRUCTION NOTES

+ LEGEND / SYMBOLS & ABBREVIATIONS

B. DRAINAGE AND STREET LIGHTS



+ SUMMARY OF QUANTITIES

+ TRAFFIC MANAGEMENT

R 3 9



+ TRAFFIC MANAGEMENT

+ FOUNDATION ELEVATION

- + BASE PLATE DETAIL FOR 8M POLE
- + PEDESTAL DETAIL + STIFFENER DETAIL
- + DESIGN CRITERIA

- + TYPICAL ELEVATION
- - + SECTION OF MAST ARM
 - + LED LUMINAIRE DETAILS
 - + STIFFENER DETAIL
 - + MANHOLE PLAN

- + MANHOLE COVER REINFORCEMENT

INDEX OF DRAWINGS

- + MANHOLE SECTION "A"
- + MANHOLE SECTION "B"
- + DETAIL OF OPEN CANAL

SHEET CONTENT:

C. STRAIGHT LINE DIAGRAM

7 9



+ STRAIGHT LINE DIAGRAM STA. 78+000.00 - STA. 79+800.00

B 8 9



+ STRAIGHT LINE DIAGRAM STA. 79+800.00 - STA. 80+400.00 STA. 85+000.00 - STA. 86+200.00



+ STRAIGHT LINE DIAGRAM STA. 87+000.00 - STA. 88+800.00

C. PROJECT BILLBOARD

1 2



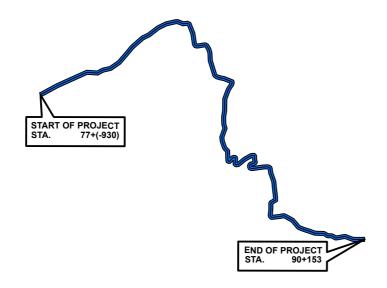
+ DETAIL OF DPWH STANDARD PROJECT BILLBOARD

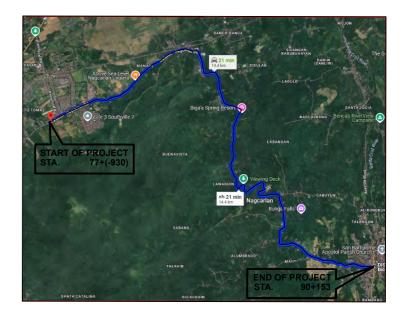


+ DETAIL OF COA'S STANDARD PROJECT BILLBOARD

K0077+(-930) - K0090+153

GELANSON P. MALABUYO

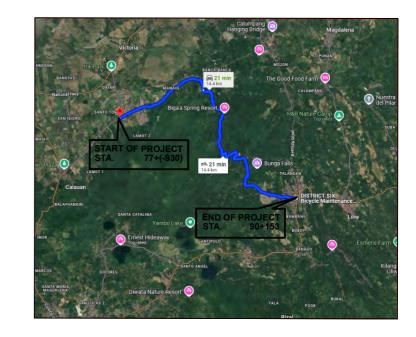








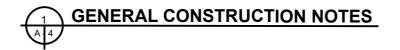
CALAUAN - NAGCARLAN SECTION	STATION	LENGTH	TOTAL NUMBER OF STREET LIGHTS
BEGINNING OF PROJECT (SECTION 1)	STA. 78+000.00 - STA. 79+000.00	997.00	78
(SECTION 2)	STA. 79+ 000.00 - STA. 80+026.00	1,026.00	82
(SECTION 3)	STA. 85+000.00 - STA. 86+950.00	950.00	76
(SECTION 4)	STA. 87+000.00 - STA. 88+000.00	1,000.00	80
END OF PROJECT (SECTION 5)	STA. 88+000.00 - STA. 88+700.00	677.00	56
TOTAL LENGTH	=	4,650.00 L.M.	372 pcs.





	Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS LAGUNA 3 rd DISTRICT ENGINEERING OFFICE Mariflor Subd. Brgy. Del Remedio, San Pablo City, Region IV-A
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PROJECT NAME & LOCATION:	SHEET CONTENT:	DRAFTED:	REVIEWED:	SUBMITTED:	APPROVED:	SET NO.	SHEET NO.
CONVERGENCE AND SPECIAL SUPPORT PROGRAM SPECIAL ROAD FUND-MOTOR VEHICLE USER'S CHARGE (MVUC) AS PER RA.11239 INSTALLATION OF SOLAR STREET LIGHTS ALONG CALAUAN - NAGCARLAN BDRY, RD K0077+(-930) - K0090+153	+ LAYOUT PLAN + VICINITY MAP + KEY MAP	BERNARDO K. ESEO ENG'G ASSISTANT PREPARED: GELANSON P. MALABUYO DATE: ENGINEER II	NEIL JOHN U. CONOCONO ENGINEER II	MA. SHIRLEY M. SAMIANO CHIEF, PLANNING & DESIGN SECTION CONCURRENT CAPACITY AS OFFICER-IN-CHARGE OFFICE OF THE ASSISTANT DISTRICT ENGINEER DATE:	CARLOS C. MUERE OFFICER-IN-CHARGE OFFICE OF THE DISTRICT ENGINEER DATE:	G 3 5	3 16



1.0 SPECIFICATIONS:

1.1 ALL WORKS SHALL COMPLY WITH THE "DPWH STANDARD SPECIFICATIONS, 2013 EDITION, VOLUME II - HIGHWAYS, BRIDGES AND AIRPORTS", SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS TO THIS PROJECT.

2.0 DIMENSIONS

- 2.1 ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2.2 DIMENSIONS ON DRAINAGE, TYPICAL ROAD SECTION AND STANDARD DRAWINGS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

3.0 STATIONINGS AND RADIUS OF HORIZONTAL CURVE

- 3.1 THE STATIONINGS OF HORIZONTAL ALIGNMENT OF THE PROJECT ROADS ARE RELATIVE TO THE CENTERLINE SHOWN ON THE PLANS.
- 3.2 STATIONINGS OF CIM, MH, AND OTHERS STRUCTURES ARE RECKONED AT THE STATIONINGS OF THE CENTERLINE SHOWN ON THE PLANS.
- 3.3 THE RADIUS OF THE HORIZONTAL CURVE SHOWN ON THE PLAN WERE BASED ON THE ACTUAL LAID-OUT ROADWAY CENTERLINE.

4.0 HORIZONTAL CONTROLS

THE AZIMUTH USED IN THIS PROJECT WAS RECKONED FROM THE CENTERLINE OF STRAIGHT TANGENT OF EXISTING CONCRETE PAVEMENT ALONG MASPANG HIGHWAY, THE AZIMUTH OF SUCCEEDING TANGENT WERE DETERMINED BY ADDING AND/OR SUBTRACTING MEASURED DEFLECTION ANGLE. CALCULATED AZIMUTH = 276°21'30".

5.0 VERTICAL CONTROLS:

THE DATUM USED IN THIS PROJECT WAS ASSUMED. IT WAS REFERRED FROM KM POST 70 ASSUMED ELEVATION = 101.22 M.

6.0 ELEVATIONS AND GRADES:

- 6.1 FINISHED GRADE ELEVATIONS ARE RELATIVE TO CENTERLINE OF EACH ROAD.
- 6.2 THE ELEVATIONS SHOWN ON THE ORIGINAL GROUND ON THE PLAN AND PROFILE ARE RELATIVE TO CENTERLINE OF THE ROAD.

7.0 ROAD CONNECTIONS AND PRIVATE ENTRANCES:

- 7.1 APPROACHES AND CONNECTIONS SHALL BE CONSTRUCTED BY THE CONTRACTOR AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IIN SUCH MANNER AS TO ENSURE SMOOTH CONNECTION AND RIDING QUALITY.
- 7.2 NO OPENING FOR DRIVEWAYS OR PRIVATE ENTRANCES SHALL BE ALLOWED ESPECIALLY ALONG CRITICAL SECTIONS EXCEPT WITH PRIOR APPROVAL OF THE PROPER AUTHORITIES.

8.0 DRAINAGE STRUCTURES:

- 8.1 LOCATIONS OF EXISTING DRAINAGE STRUCTURES REFLECTED IN THE PLAN WAS BASED ON THE TOP SURVEY
- 8.2 EXACT LOCATIONS, GRADIANTS OUTFALLS AND TOP AND INVERT ELEVATION OF DRAINAGE STRUCTURES SHALL BE CHECKED AND VERIFIED IN THE FIELD, DURING CONSTRUCTION BY THE ENGINEER. FIELD ADJUSTMENT MAY BE MADE BY THE ENGINEER TO SUIT ACTUAL FIELD CONDITIONS.
- 8.3 EXTENSIONS AND OTHER IMPROVEMENTS OF EXISTING DRAINAGE STRUCRURES ARE SUBJECT TO CHANGE AND SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER.

- 8.4 PRIOR TO INSTALLATION OF RCPC AND OTHER DRAINAGE STRUCTURES. ALL MATERIALS MUST BE TESTED AND CONFORMING WITH THE TECHNICAL SPECIFICATION.
- 8.5 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY MATERIALS INSTALLED AND FOUND TO BE DEFICIENT IN WORKMANSHIP AND QUALITY OF WORK.
- 8.6 RCPC DIAMETERS ARE IN MILIMETERS UNLESS OTHERWISE SPECIFIED.
- 8.7 INLETS AND OUTLETS IF NEW AND EXISTING CULVERTS TO BE UTILIZED SHOULD BE CHANNELIZED AND CLEARED OF DEBRIS IN ORDER TO HAVE A SMOOTH FLOW OF WATER.

9.0 REMOVAL OF EXISTING STRUCTURES AND RELOCATION OF EXISTING UTILITIES:

- 9.1 REMOVAL OF EXISTING BUILDING, HOUSES, AND FENCES, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR, THEY WILL BE PAID ACCORDING TO THE CONTRACT.
- 9.2 PORTIONS OF EXISTING UTILITIES, SUCH AS WATER LINES, TELEPHONE TRUCK LINES, ELECTRIC LINES ETC. THAT MAY OBSTRUCT THE CONSTRUCTION OF THE PROJECT SHALL BE RELOCATED BY THE ENTITIES OR OWNER'S CONCERNED. EXTREME PRECAUTION SHALL BE EXERCISED BY THE CONTRACTOR SO AS NOT TO DAMAGE THE EXISTING UTILITIES DURING CONSTRUCTION. ANY DAMAGE THEREOF SHALL BE ON THE ACCOUNT OF THE CONTRACTOR.

10.0 ROAD SIGNS:

10.1 ROAD SIGNS SHALL CONFORM WITH THE LATEST MANUAL ONM PHILIPPINES ROAD SIGNS (REVISED EDITION) OF THE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS, TRAFFIC ENGINEERING ANDS MANAGEMENT PROJECTS.

11.0 GENDER AND DEVELOPMENT

- 11.1 THE DESIGN SHALL CONFORMS WITH THE REPUBLIC ACT 7192
- 11.2 THE DESIGN SHALL CONFORMS WITH THE REPUBLIC ACT 9710

12.0 ACCESSIBILITY LAW

12.1 STRICT COMPLIANCE WITH THE BATAS PAMBANSA 344 AND ITS IMPLEMENTING RULES AND REGULATION SHALL BE IMPOSED THE IMPLEMENTING OFFICE IDENTIFY LOCATIONS OF AND PROVIDE ACCESSIBILITY FACILITIES FOR PERSONS WITH DISABILITY IN ACCORDANCE WITH D.O. 37 SERIES OF 2007.

13.0 DESIGN DATA / REFERENCE

- 13.1 THE DESIGN DATA ADOPTED IN THIS PROJECT WAS MAINLY ESTABLISHED WITH REFERENCE TO AASHTO'S. A POLICY ON GEOMETRIC DESIGN OF HIGHWAY AND STREETS DESIGN GUIDELINES, CRITERIA AND STANDARDS (DGCS) DPWH.
- 13.2 GUIDELINES FOR ROAD DRAINAGE, DPWH.

14.0 STANDARD DRAWINGS:

14.1 THE NECESSARY DRAWINGS CONTAINED IN THE DPWH STANDARD DRAWINGS FOR ROADS AND BRIDGES SHALL UTILIZED FOR THIS PROJECT, UNLESS OTHERWISE A MORE DETAILED DRAWING IS SPECIFIED AND/OR PROVIDED AND APPROVED.



CONVERGENCE AND SPECIAL SUPPORT PROGRAM
PECIAL ROAD FUND-MOTOR VEHICLE USER'S CHARGE (MVUI AS PER R.A.11239
INSTALLATION OF SOLAR STREET LIGHTS ALONG CALAUAN - NAGCARLAN BDRY, RD. -K0077+(-930) - K0090+153

OJECT NAME & LOCATION

GENERAL CONSTRUCTION NOTES

SHEET CONTENT:

BERNARDO K. ESEO ENG'G ASSISTANT

D: NEIL JOHN U. CONOCONO
ENGINEER II

SMCNHEED II

MA. SHIRLEY M. SAMIANO

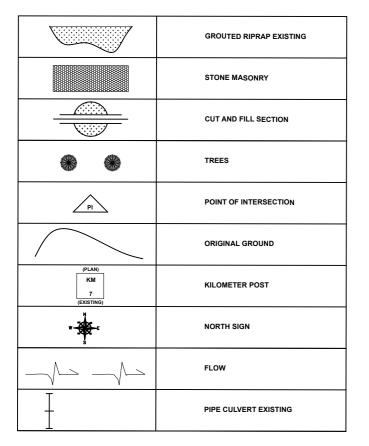
CHIEF, PLANNING & DESIGN SECTION

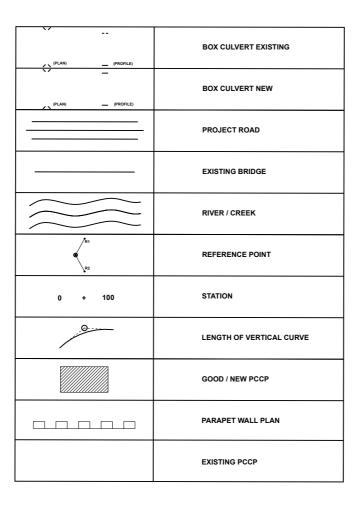
CONCURRENT CAPACITY AS OFFICER-IN-CHARGE
OFFICE OF THE ASSISTANT DISTRICT ENGINEER

CARLOS C. MUERE
OFFICER-IN-CHARGE
OFFICE OF THE DISTRICT ENGINEER











ACP	ASPHALT CONCRETE PAVEMENT	Max	MAXIMUM
AZIM	AZIMUTH	МН	MANHOLE
BLDG	BUILDING	mm	MILLIMETER
BM	BENCH MARK	Мо	MIDDLE ORDINATE
BOQ	BILL OF QUANTITIES	MUN	MUNICIPAL
BR	BRIDGE	NB	NORTH BOUND
BRDY	BOUNDERY	0.C	ON CENTER
BRGY	BARANGAY	OIE	OUTLET INVERT ELEVATION
BVCE	BEGIN OF VERTICAL ELEV.	PC	POINT OF CURVATURE
BVCS	BEGIN OF VERTICAL CURVE STATION	PCCP	PORTLAND CONCRETE CEMENT PAVEMENT
BW	BOTHWAYS	PI	POINT OF INTERSECTION
CIM	CURB INLET MANHOLE	PT	POINT OF TANGENCY
CL	CENTERLINE	PVI	POINT OF VERTICAL INTERSECTION
cm	CENTIMETER	PVC	POINT OF VERTICAL CURVE
cs	CURB TO SPIRAL	PVT	POINT OF VERTICAL TANGENCY
си	CULVERT	R	RADIUS
D	DEGREE OF CURVE	RC	REINFORCE CONCRETE
DIST.	DISTANCE	RCBC	REINFORCE CONCRETE BOX CULVERT
DLI-01	DRAINAGE MANHOLE MEMBER	RCPC	REINFORCE CONCRETE PIPE CULVERT
DPWH	DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	RD	ROAD
E	EXTERNAL DISTANCE/EASTING	RROW	ROAD RIGHT-OF-WAY
е	SUPERELEVATION	RT	RIGHT
EB	EAST BOUND	s	NORMAL CROSSFALL
ELEV.	ELEVATION	SB	SOUTH BOUND
EXTG.	EXISTING	SHLDR	SHOULDER
g	GRADIENT	STA	STATION
HOR	HORIZONTAL	STD	STANDARD
I	INTERSECTION ANGLE	sw	SOUTHWEST
IIE	INLET INVVERT ELEVATION	Т	TANGENT
INT'L	INTERNATIONAL	ТВМ	TEMPORARY BENCH MARK
KMS	KILOMETER	vc	VERTICAL CURVE
L	LEFT OR LENGTH	VERT,V	VERTICAL
Lc	LENGHT OF HORIZONTAL CURVE	w	WIDENING
Lm	LINEAR METER	WB	WEST BOUND
LT	LEFT	ww	WING WALL
LVC	LENGTH OF VERTICAL CURVE	Ø	DAIMETER
М	METER	NC	NORMAL CROWN

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PROJECT NAME & LOCATION.
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SPECIAL ROAD FUND-MOTOR VEHICLE USER'S CHARGE (MVUC)
AS PER R.A.11239
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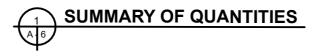
SHEET CONTENT:

+ LEGEND + ABBREVIATIONS



SUBMITTED:



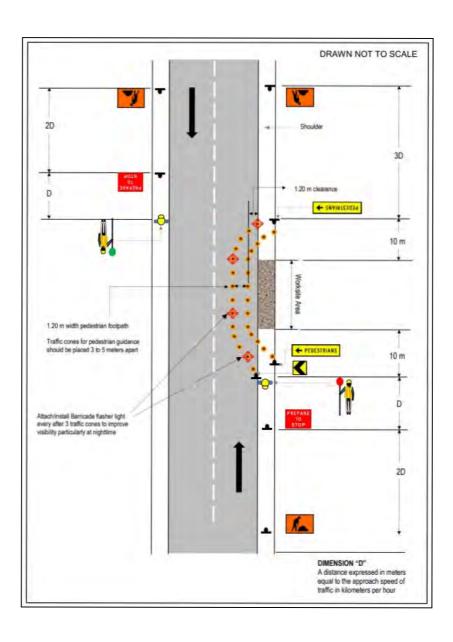


ITEM NO.	DESCRIPTION	QUANTITY	UNIT	REMARKS
PART A	FACILITIES FOR THE ENGINEER			
A.1.4 (1)	Provision of Progress Photographs	6.00	month	
PART B	OTHER GENERAL REQUIREMENTS			
B.5	Project Billboard / Signboard	4.00	each	
B.7 (2)	Occupational Safety and Health Program	1.00	l.s.	
B.8 (2)	Traffic Management	1.00	l.s.	
B.9	Mobilization / Demobilization	1.00	l.s.	
PART C	EARTHWORKS			
101 (1)	Removal of Structures and Obstruction	1.00	l.s.	
103 (1) a	Structure Excavation (Common Soil)	858.00	cu.m.	
103 (3)	Foundation Fill	53.00	cu.m.	
104 (1) a	Embankment from Roadway Excavation (Common Soil)	482.00	cu.m.	
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES			
404 (1) a	Reinforcing Steel (Grade 40)	15,142.00	kg	
405 (1) a3	Structural Concrete (20.68Mpa, Class A, 28 days)	376.00	cu.m.	
404 (1) b	Reinforcing Steel (Grade 60)	14,197.00	kg	
PART H	MISCELLANEOUS STRUCTURES			
624 (11)	Roadway Lighting	1.00	l.s.	

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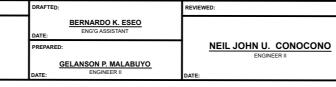




PART LANE CLOSURE DUE TO WORKS ON SIDEWALK - 2 LANE 2 WAY ROAD LOW SPEED, SHORT TERM

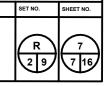
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CONVERGENCE AND SPECIAL SUPPORT PROGRAM
SPECIAL ROAD FUND-MOTOR VEHICLE USER'S CHARGE (MVL
AS PER R.A.11239
INSTALLATION OF SOLAR STREET LIGHTS ALONG
CALAUAN - NAGCARLAN BDRY. RD
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+ TRAFFIC MANAGEMENT

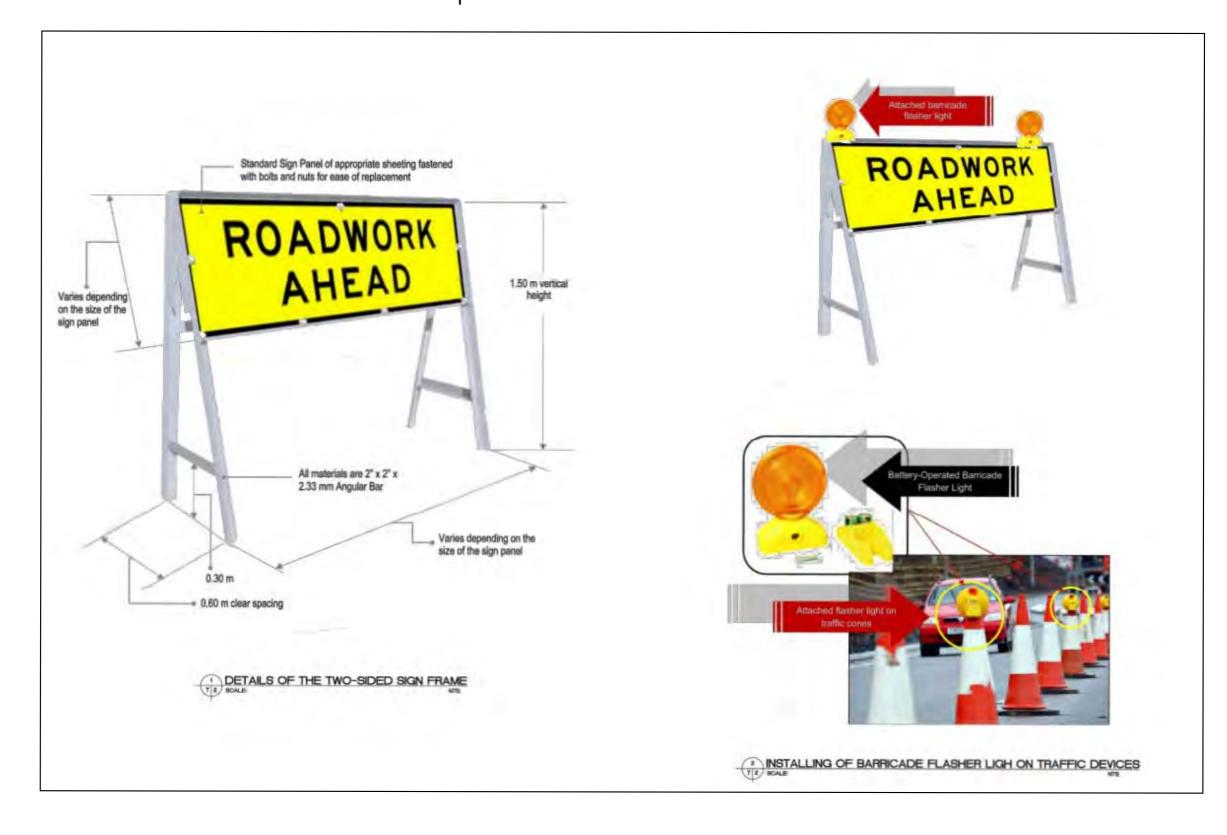








TRAFFIC MANAGEMENT



CONVERGENCE AND SPECIAL SUPPORT PROGRAM
SPECIAL ROAD FUND-MOTOR VEHICLE USER'S CHARGE (MVU
AS PER R.A.11239
INSTALLATION OF SOLAR STREET LIGHTS ALONG
CALAUAN - NAGCARLAN BDRY. RD
K0077+(-930) - K0090+153

+ TRAFFIC MANAGEMENT	

SHEET CONTENT:

BERNARDO K. ESEO
ENG'G ASSISTANT

ED:

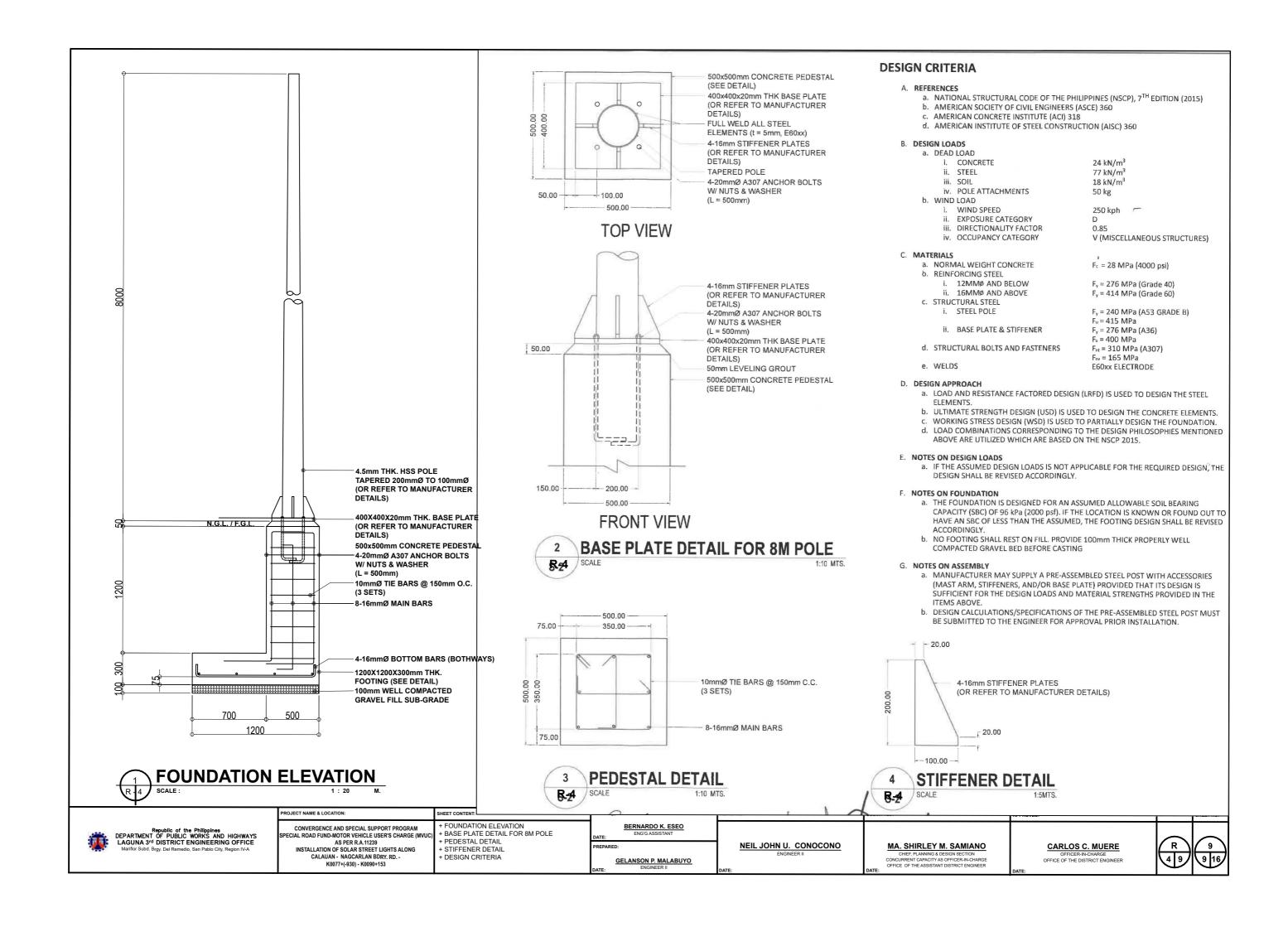
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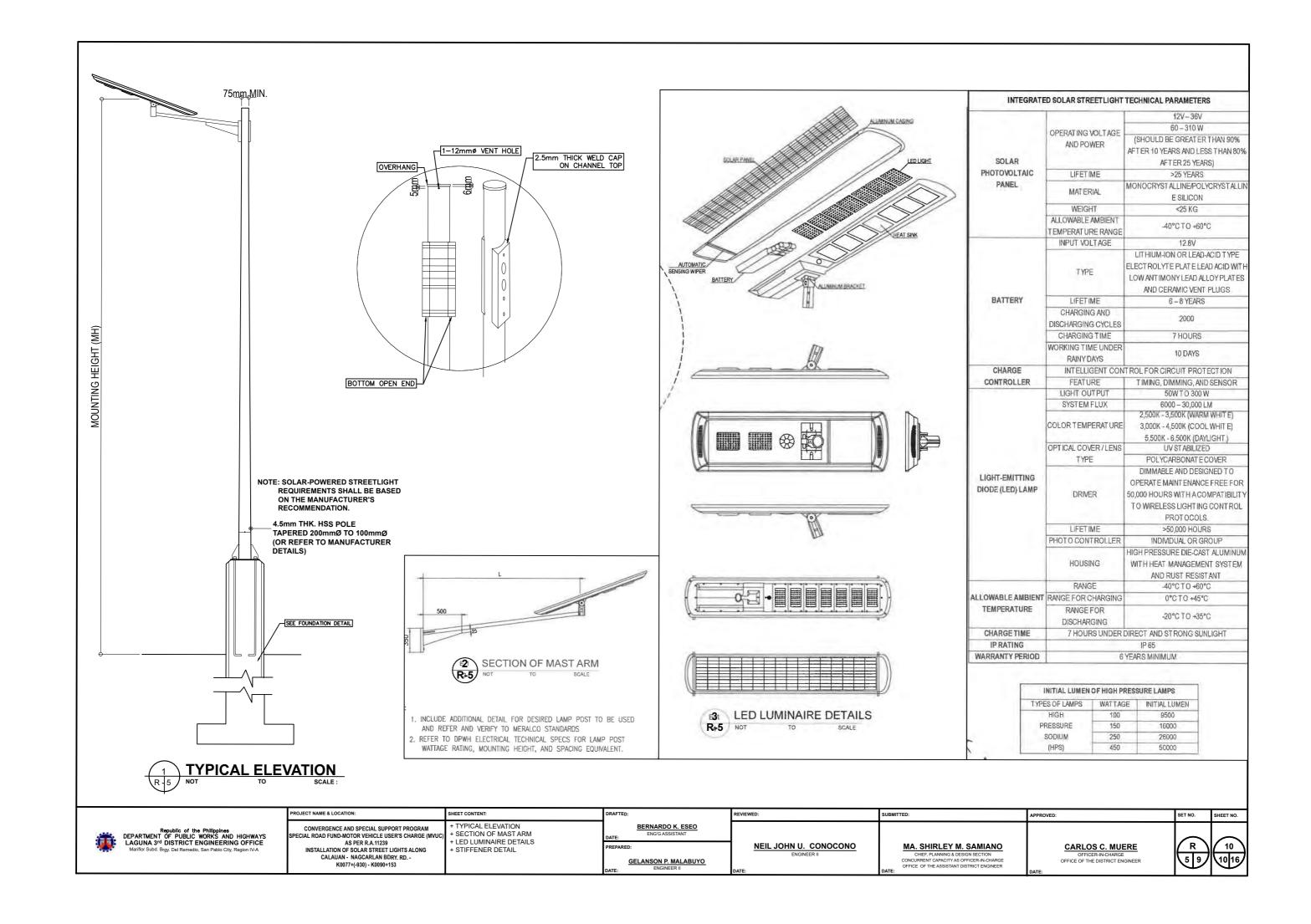
NEIL JOHN U. CONOCONO ENGINEER II

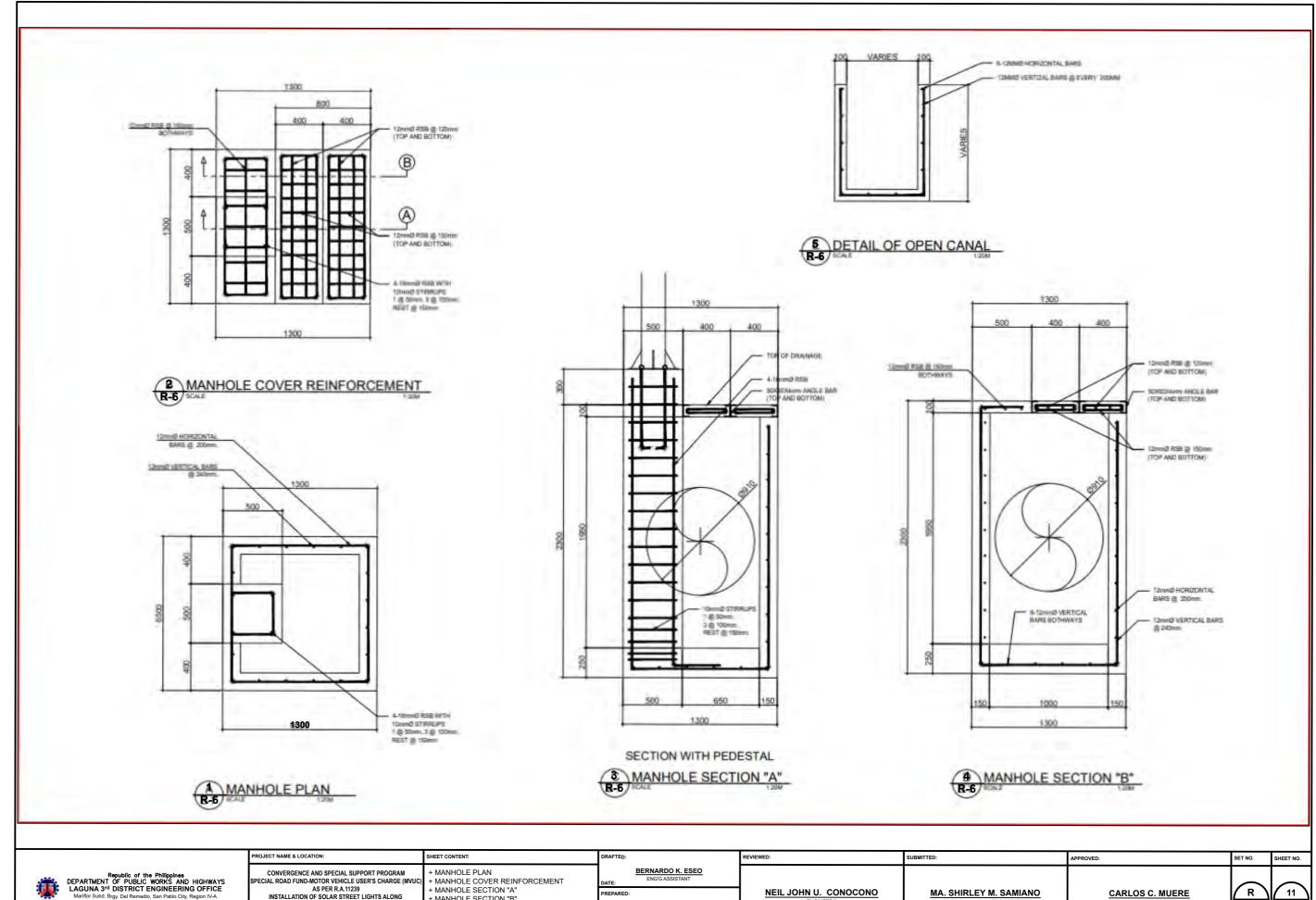
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LAGUNA 3rd DISTRICT ENGINEERING OFFICE
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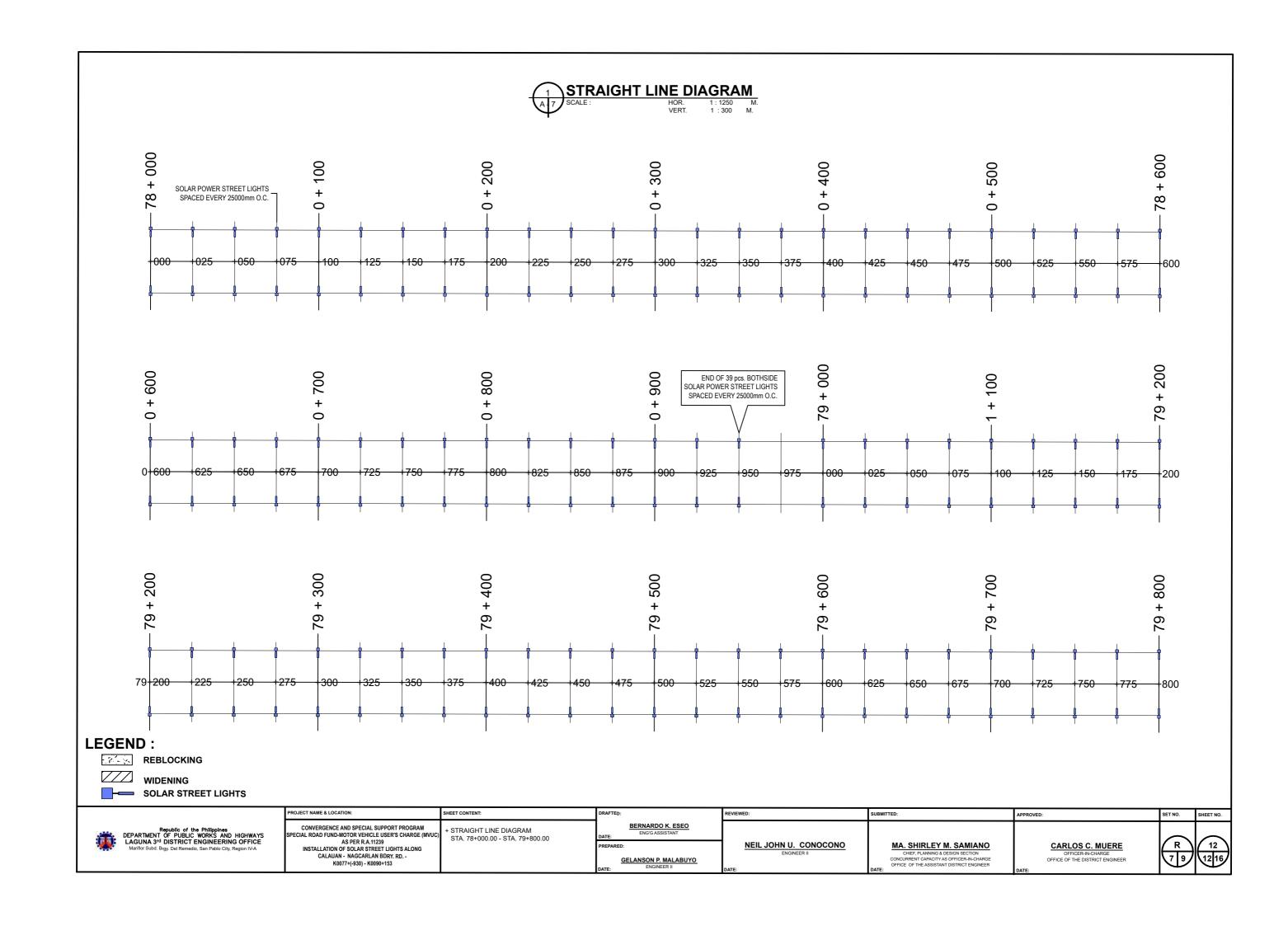
INSTALLATION OF SOLAR STREET LIGHTS ALONG
CALAUAN - NAGCARLAN BDRY. RD. -

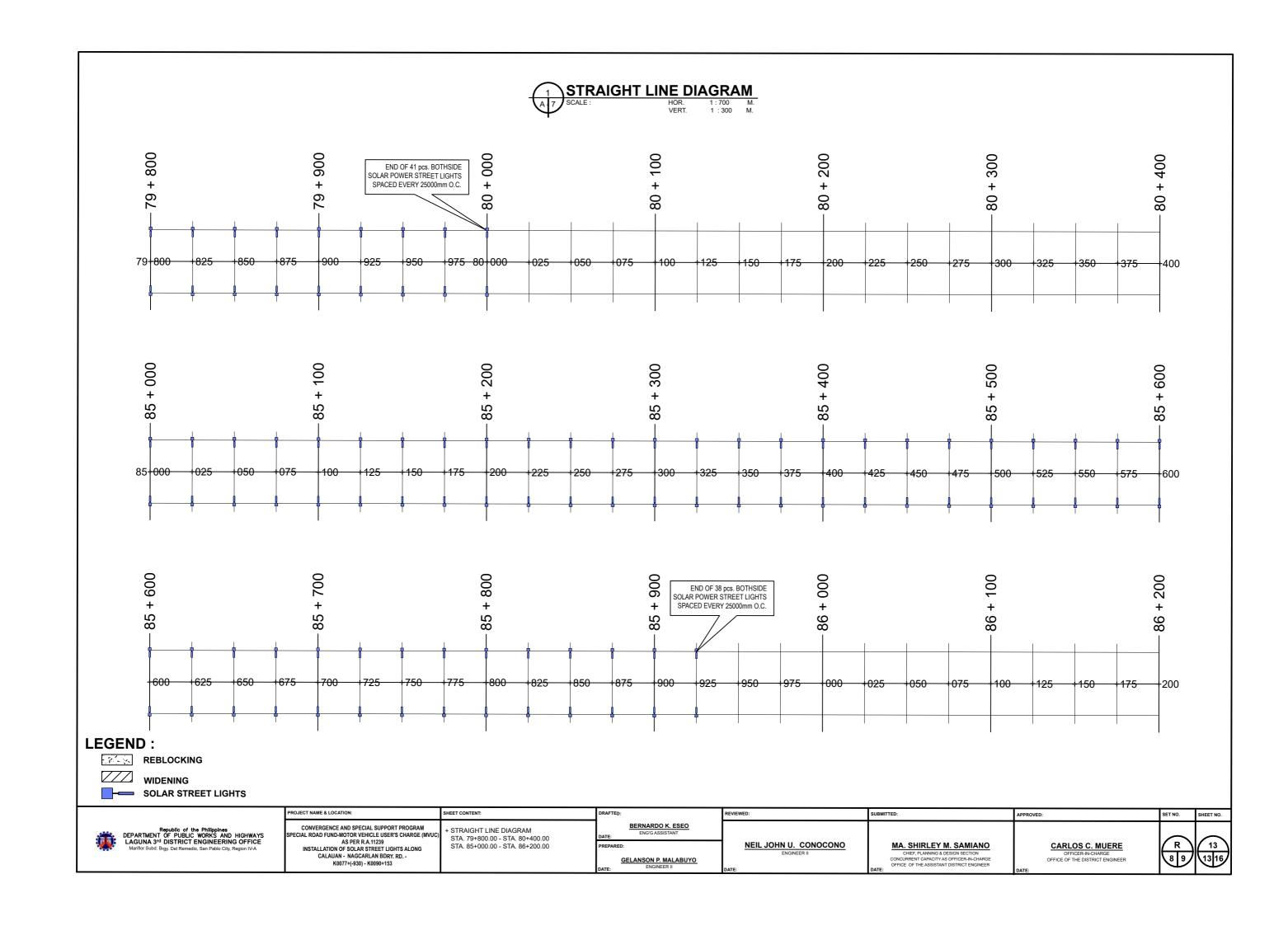
+ MANHOLE SECTION "B" DETAIL OF OPEN CANAL GELANSON P. MALABUYO ENGINEER II

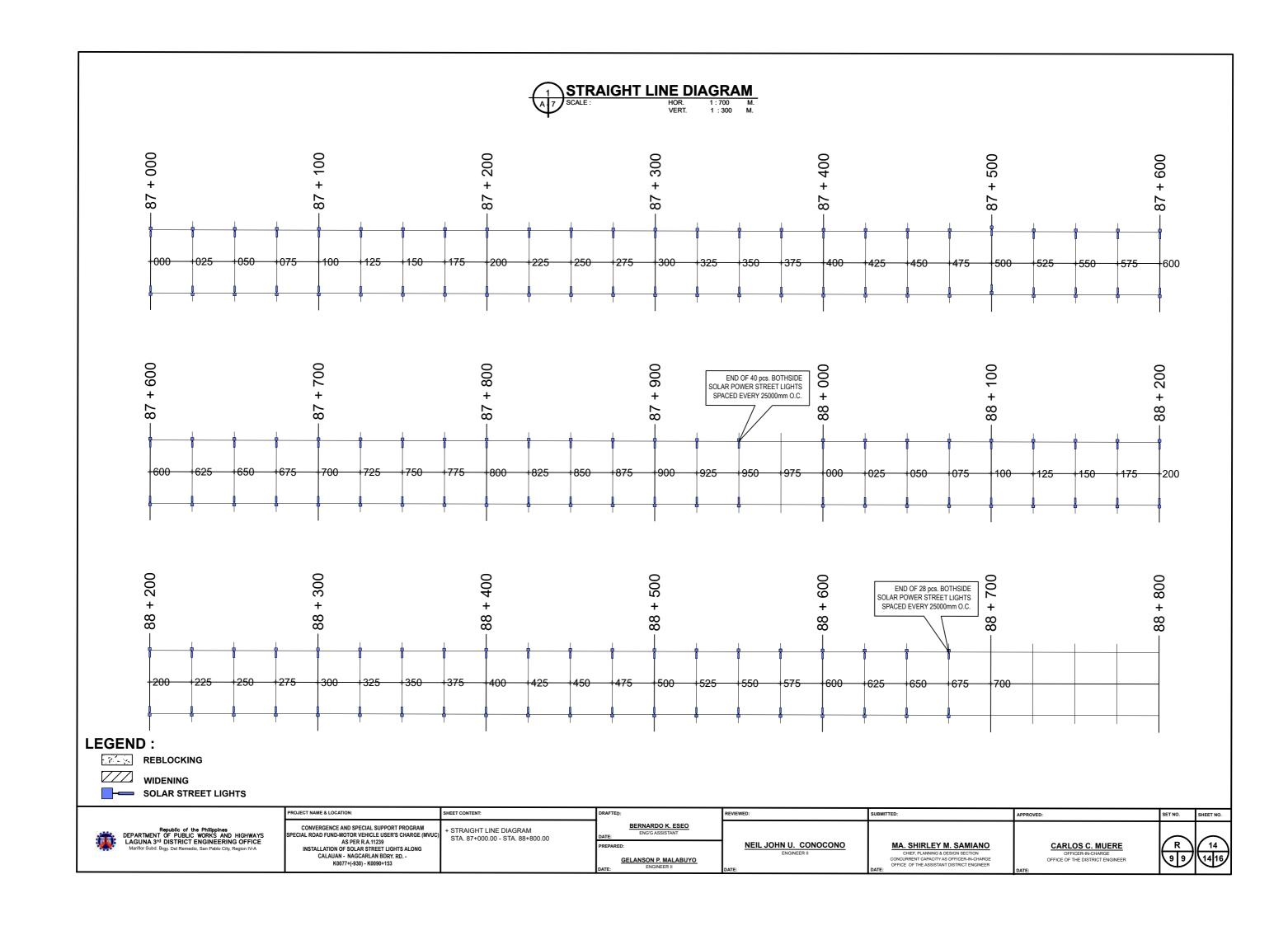
MA. SHIRLEY M. SAMIANO CHIEF, PLANNING & DESIGN SECTION CONCURRENT CAPACITY AS OFFICER-IN-CHARGE OFFICE OF THE ASSISTANT DISTRICT ENGINEER

OFFICE OF THE DISTRICT ENGINEER

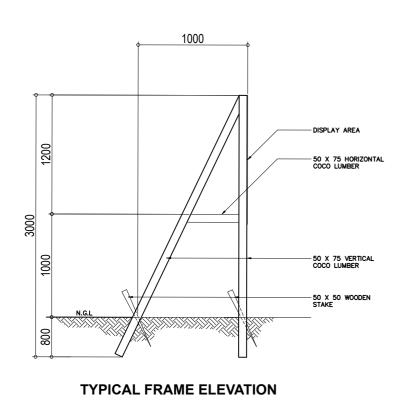


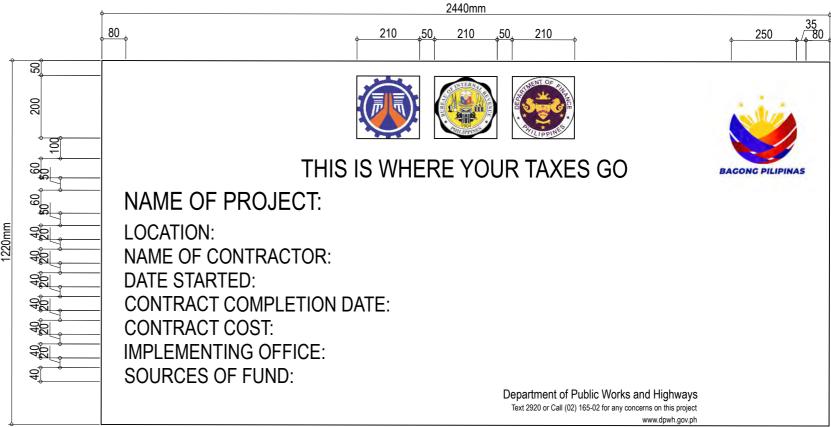


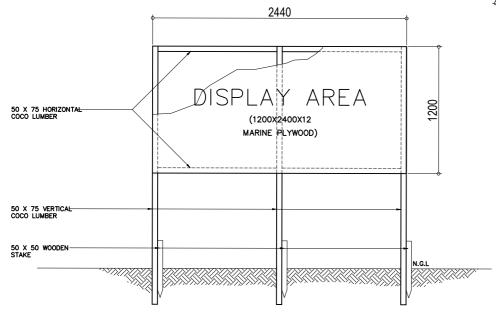




DPWH STANDARD PROJECT BILLBOARD O







GENERAL NOTES:

1. FONT STYLE SHALL ARIAL, WHILE THE DIMENSION AND LETTER SIZES AS INDICATED ON THE DESIGN LAYOUT SHALL BE ON WHITE BACKGROUND.

2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

FOOD OF ROAD

ORIENTATION

FRONT ELEVATION

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
LAGUNA 3rd DISTRICT ENGINEERING OFFICE
Mariflor Subd. Brgy. Del Remedio, San Pablo City, Region IV-A

CONVERGENCE AND SPECIAL SUPPORT PROGRAM
SPECIAL ROAD FUND-MOTOR VEHICLE USER'S CHARGE (MVUC)
AS PER R.A.11239
INSTALLATION OF SOLAR STREET LIGHTS ALONG
CALAUAN - NAGCARLAN BDRY. RD. K0077+(-930) - K0090+153

PROGRAM
CHARGE (MVUC)

BILLBOARD

S ALONG

BERNARDO K. ESEO
ENG'G ASSISTANT

D:

MEIL JOHN U. CONOCONO
ENGINEER II

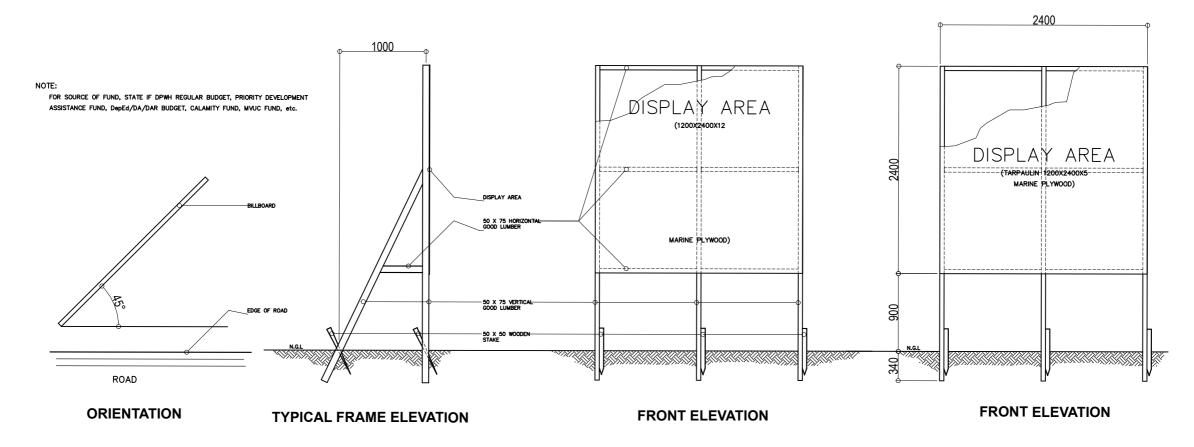
ENGINEER II

MA. SHIRLEY M. SAMIANO
CHIEF, PLANNING & DESIGN SECTION
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CARLOS C. MUERE
OFFICER-IN-CHARGE
OFFICE OF THE DISTRICT ENGINEER



_					Cos	st:		
ocation —		:	:Fund Source/S:					
mplementir	ng Agency/ie	s :						
evelopmen	nt Partner/s	:						
Contractor/	Supplier	:						
rief Descrip	tion of Proje	ect :						
roject Deta	il·							
roject beta	PROJECT DATE			PROJECT STATUS				
	STARTED	TARGET DATE OF COMPLETION	PERCENTAGE OF COMPLETION	AS OF DATE	COST INCURRED TO DATE	DATE COMPLETED	REMARKS	
DURATION		1	I .					
DURATION		1	I .					
DURATION								
DURATION								



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
LAGUNA 3rd DISTRICT ENGINEERING OFFICE
Mariflor Subd. Brgy, Del Remedio, San Pablo City, Region IVA

PROJECT NAME & LOCATION:

SHECT CONVERGENCE AND SPECIAL SUPPORT PROGRAM
SPECIAL SUPPORT PROGRAM
SPECIAL SUPPORT PROGRAM
SPECIAL SUPPORT PROGRAM
SPECIAL ROAD FUND-MOTOR VEHICLE USER'S CHARGE (MVUC)
AS PER R.4.17239
INSTALLATION OF SOLAR STREET LIGHTS ALONG
CALAUAN - NAGCARLAN BDRY, RD.
CALAUAN - NAGCARLAN BDRY, RD.
K0077+(930) - K00990+153

PROJECT NAME & LOCATION:
SHECT OC.
SHERT D.

NEIL JOHN U. CONOCONO
DATE:
ENGINEER II

NEIL JOHN U. CONOCONO
DATE:
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