

REPUBLIC OF THE PHILIPPINES **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

REGIONAL OFFICE No. IV-A BATANGAS 2ND DISTRICT ENGINEERING OFFICE KUMINTANG ILAYA, BATANGAS CITY

C.Y. 2025 PROJECT DETAILED ENGINEERING DESIGN PLAN FOR **CARRIAGEWAY MAINTENANCE - PAVEMENT MAINTENANCE -**SELECTIVE REPLACEMENT OF CONCRETE PAVEMENT ALONG **BATANGAS-QUEZON ROAD WITHIN K0134+(-654) - K0134+898**

> BATANGAS CITY, BATANGAS **BATANGAS-QUEZON ROAD** KO134+(-654) - KO134+898 NET LENGTH = 76.50 Lm.

SUBMITTED:

RECOMMENDED:

APPROVED:

RONALDO C. FRAGO

ARIEL V. ARMEDILLA ASSISTANT DISTRICT ENGINEER

CHIEF, MAINTENANCE SECTION

DISTRICT ENGINEER

SONIA D. PAGLICAUAN

INDEX OF DRAWINGS

A. GENERAL

B. ROADS



COVER PAGE



EXISTING ROADWAY SECTION



INDEX OF DRAWINGS, GENERAL NOTES & **LOCATION MAP**



SCHEDULE OF ITEMS



SUMMARY OF QUANTITIES



TYPICAL ROADWAY SECTION



TRAFFIC MANAGEMENT PLAN



STRAIGHT LINE DIAGRAM

GENERAL NOTES

1.0 SPECIFICATIONS

1.1 ALL WORKS SHALL COMPLY WITH THE "DPWH STANDARD SPECIFICATIONS, 2013 EDITIONS, 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 SECTIONS, AND STANDARD DRAWINGS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED ON THE DRAWINGS

3.0 ELEVATIONS AND GRADES:

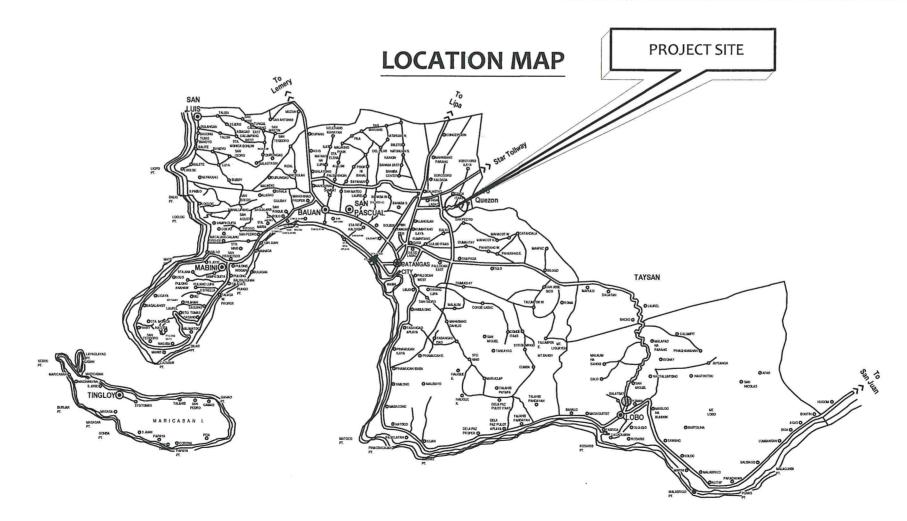
3.1 FINISHED GRADE ELEVATIONS ARE RELATIVE TO THE EXISTING GRADE LINE

4.0 ROAD CONNECTIONS AND PRIVATE ENTRANCES:

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

5.0 STANDARD DRAWINGS:

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





REPUBLIC OF THE PHILIPPINES
EPARTMENT OF PUBLIC WORKS AND HIGHWAYS BATANGAS 2ND DISTRICT **ENGINEERING OFFICE** KUMINTANG ILAYA, BATANGAS CITY

PROJECT NAME AND LOCATION:

CARRIAGEWAY MAINTENANCE - PAVEMENT MAINTENANCE - SELECTIVE REPLACEMENT OF CONCRETE PAVEMENT ALONG BATANGAS-QUEZON ROAD WITHIN K0134+(-54) - K0134+898 BATANGAS CITY, BATANGAS CITY, BATANGAS

HEET CONTENT

INDEX OF DRAWINGS GENERAL NOTES LOCATION PLAN

MAVERICK D. OLAYA

ADMINISTRATIVE ASSISTANT II ICAD OPERATO

ANTHONY LAURENCE P. DY

REINALD KEVIN L. JOBOG

EVIEWED:

RONALDO C. FRAGO

SUBMITTED:

ARIEL V. ARMEDILLA

RECOMMENDED:





SHEET NO.

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
PART A	OTHER GENERAL REQUIREMENT		
B.7 (2)	B.7 (2) Occupational Safety and Health		Lump Sum
B.8 (1)	Traffic Management	1.50	Month
B.9	Mobilization / Demobilization	1.00	Lump Sum
	TOTAL OF PART A		
PART B	EARTHWORKS		
101(3)b3	Removal of Actual Structures/Obstruction, 0.23 m thick, PCCP (Unreinforced)	260.00	sq. m.
102(2)	02(2) Surplus Common Excavation		cu.m.
105(1)b	Subgrade Preparation (Existing Pavement)	260.00	sq.m.
	TOTAL OF PART B		
PART C	SUBBASE COURSE		
200(1)	Aggregate Subbase Course	78.00	cu.m.
207 (1) a	Portland Cement Treated Plant Mix Course, New Soil Aggregate	78.00	cu.m.
	TOTAL OF PART C		
PART D	SURFACE COURSES		
311(2)f2	Portland Cement Concrete Pavement (Reinforced), 0.30 m thick, 7 days	260.00	sq.m.
	TOTAL OF PART D		

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIG REGIONAL OFFICEN. IVA BATANGAS 2ND DISTRICT
ENGINEERING OFFICE KUMINTANG ILAYA, BATANGAS CITY

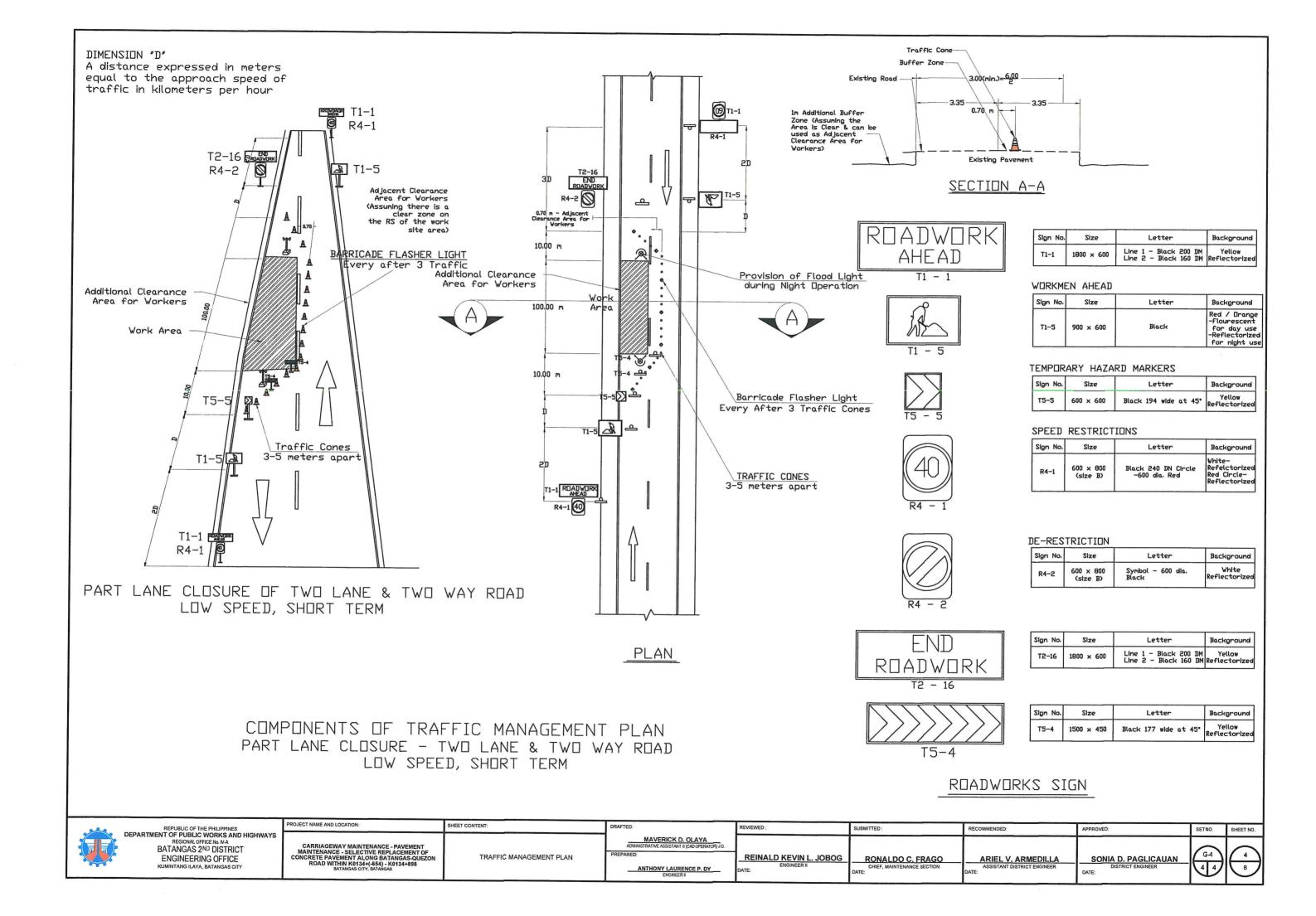
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ı	CARRIAGEWAY MAINTENANCE - PAVEME
ı	MAINTENANCE - SELECTIVE REPLACEMENT
	CONCRETE PAVEMENT ALONG BATANGAS-Q
	DOAD WITHIN MARKET STATE MARKET SEE

SUMMARY OF QUANTITIES

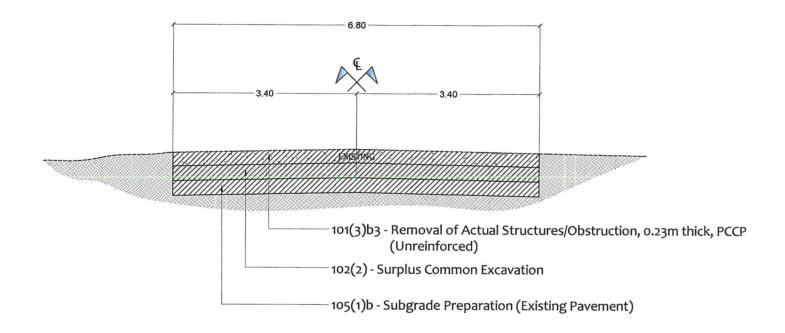
SHEET CONTENT:

DRAFTED:
MAVERICK D. OLAYA
ADMINISTRATIVE ASSISTANT II (CAD OPERATOR) J.O.
PREPARED:
ANTHONY LAURENCE P. DY
ENGINEER I

REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SI
REINALD KEVIN L. JOBOG ENGINEER II DATE:	RONALDO C, FRAGO CHIEF, MAINTENANCE SECTION DATE:	ARIEL V. ARMEDILLA ASSISTANT DISTRICT ENGINEER DATE:	SONIA D. PAGLICAUAN DISTRICT ÉNGINEER DATE:	(



BATANGAS - QUEZON ROAD





Item 105 - SUBGRADE PREPARATION

This Item shall consist of the preparation of the subgrade for the support of overlying structural layers. It shall extend to full width of the roadway. Unless authorized by the Engineer, subgrade preparation shall not be done unless the Contractor is able to start immediately the construction of the pavement structure.

ITEM 102 - EXCAVATION

Roadways excavation will include excavation and grading for roadways, parking areas, intersections, approaches, slope rounding, benching, waterways and ditches; removal of unsuitable material from the roadbed and beneath embankment areas; and excavating selected material found in the roadway as ordered by the Engineer for specific use in the improvement. Roadway excavation will be classified as "unclassified excavation", "rock excavation", "common excavation", or "muck excavation" as indicated in the Bill of Quantities and hereinafter described.

Common Excavation. Common excavations shall consist of all excavation not included in the Bill of Quantities under "rock excavation" or other pay items.

RECOMMENDED:

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	KIDANG

REPUBLIC OF THE PHILIPPINES
RTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. N.-A
BATANGAS 2ND DISTRICT
ENGINEERING OFFICE
KUMINTANG ILAYA. BATANGAS CITY

CARRIAGEWAY MAINTENANCE - PAVEMENT
MAINTENANCE - SELECTIVE REPLACEMENT OF
CONCRETE PAVEMENT ALONG BATANGAS-QUEZON
ROAD WITHIN K0134+(-554) - K0134+898
BATANGAS CIPY, PATANGAS

PROJECT NAME AND LOCATION

EXISTING ROADWAY SECTION

SHEET CONTENT

MAVERICK D. OLAYA
ADMINISTRATIVE ASSISTANT II (CAD OPERATOR) J.
PREPARED:
ANTHONY LAURENCE P. DY

REINALD KEVIN L. JOBOG

EVIEWED:

OG RONALI
CHIEF, MAII

SUBMITTED:

RONALDO C, FRAGO ARIEI

ARIEL V. ARMEDILLA
ASSISTANT DISTRICT ENGINEER
DATE:

SONIA D. PAGLICAUAN
DISTRICT ENGINEER
DATE:

APPROVED:



STAT	ON				
START	END	LENGTH	WIDTH	NO. OF BLOCKS	AREA
Sta. 134 + (-127.00)	Sta. 134 + (-118.00)	9.00	3.4	2	30.6
Sta. 134 + (-164.50)	Sta. 134 + (-151.00)	13.50	3.4	3	45.9
Sta. 134 + (-178.50)	Sta. 134 + (-165.00)	13.50	3.4	3	45.9
Sta. 134 + (-202.50)	Sta. 134 + (-189.00)	13.50	3.4	3	45.9
Sta. 134 + (-347.00)	Sta. 134 + (-320.00)	27.00	3.4	6	91.8

200(1)	Aggregate Subbase Course						
	STATION	STATION	LENGTH	WIDTH	NO. OF BLOCKS	THICKNESS	TOTAL
	Sta. 134 + (-127.00)	Sta. 134 + (-118.00)	9	3.4	2	0.30	9.18
	Sta. 134 + (-164.50)	Sta. 134 + (-151.00)	13.5	3.4	3	0.30	13.77
	Sta. 134 + (-178.50)	Sta. 134 + (-165.00)	13.5	3.4	3	0.30	13.77
	Sta. 134 + (-202.50)	Sta. 134 + (-189.00)	13.5	3.4	3	0.30	13.77
	Sta. 134 + (-347.00)	Sta. 134 + (-320.00)	27	3.4	6	0.30	27.54
			76.50		17.00		78.03

STATION	STATION	LENGTH	WIDTH	NO. OF BLOCKS	THICKNESS	TOTAL
Sta. 134 + (-127.00)	Sta. 134 + (-118.00)	9.00	3.40	2.00	0.37	11.322
Sta. 134 + (-164.50)	Sta. 134 + (-151.00)	13.50	3.40	3.00	0.37	16.983
Sta. 134 + (-178.50)	Sta. 134 + (-165.00)	13.50	3.40	3.00	0.37	16.983
Sta. 134 + (-202.50)	Sta. 134 + (-189.00)	13.50	3.40	3.00	0.37	16.983
Sta. 134 + (-347.00)	Sta. 134 + (-320.00)	27.00	3.40	6.00	0.37	33.966
		76.50		17.00		96.24

207 (1) a	Portland Cement Treated Plant Mix Cour	se, New Soil Aggregate	-				
	STATION	STATION	LENGTH	WIDTH	NO. OF BLOCKS	THICKNESS	TOTAL
	Sta. 134 + (-127.00)	Sta. 134 + (-118.00)	9	3.4	2	0.30	9.18
	Sta. 134 + (-164.50)	Sta. 134 + (-151.00)	13.5	3.4	3	0.30	13.77
	Sta. 134 + (-178.50)	Sta. 134 + (-165.00)	13.5	3.4	3	0.30	13.77
	Sta. 134 + (-202.50)	Sta. 134 + (-189.00)	13.5	3.4	3	0.30	13.77
	Sta. 134 + (-347.00)	Sta. 134 + (-320.00)	27	3.4	6	0.30	27.54
			76.50		17.00		78.03

STATION	STATION	LENGTH	WIDTH	NO. OF BLOCKS	AREA
Sta. 134 + (-127.00)	Sta. 134 + (-118.00)	9	3.4	2	30.6
Sta. 134 + (-164.50)	Sta. 134 + (-151.00)	13.5	3.4	3	45.9
Sta. 134 + (-178.50)	Sta. 134 + (-165.00)	13.5	3.4	3	45.9
Sta. 134 + (-202.50)	Sta. 134 + (-189.00)	13.5	3.4	3	45.9
Sta. 134 + (-347.00)	Sta. 134 + (-320.00)	27	3.4	6	91.8
		76.50		17.00	260.1

SHEET CONTENT:

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	REPUBLIC OF THE PHIL
9	DEPARTMENT OF PUBLIC WOR
	REGIONAL OFFICE No
	BATANGAS 2ND DI
***************************************	ENGINEERING O
	KUMINTANG ILAYA, BATAN

	PROJECT NAME AND LOCATION:
PHILIPPINES ORKS AND HIGHWAYS ENG. N-A DISTRICT GOFFICE ATANGAS CITY	CARRIAGEWAY MAINT MAINTENANCE - SELEC CONCRETE PAVEMENT AL ROAD WITHIN KO134 BATANGAS CIT

CARRIAGE	WAY MAINTENA	NCE - PAVEMENT
		REPLACEMENT OF
		BATANGAS-QUEZO
KOAD W	ITHIN K0134+(-65	4) - KU134+898
	BATANGAS CITY, BAT	ANGAS

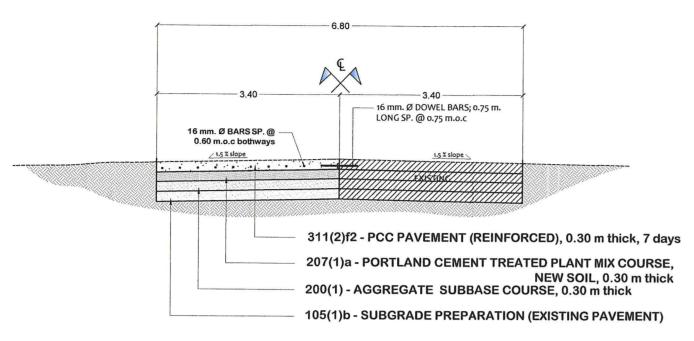
SCHEDULE OF ITEMS	PREPAR

DRAFTED:	
	MAVERICK D. OLAYA
ADMINI	STRATIVE ASSISTANT II (CAD OPERATOR) J.O.
PREPARED:	

IEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:		
EINALD KEVIN L. JOBOG ENGINEER II	RONALDO C. FRAGO CHIEF, MAINTENANCE SECTION DATE:	ARIEL V. ARMEDILLA ASSISTANT DISTRICT ENGINEER DATE:	SONIA D. PAGLICAUAN DISTRICT ENGINEER DATE:		

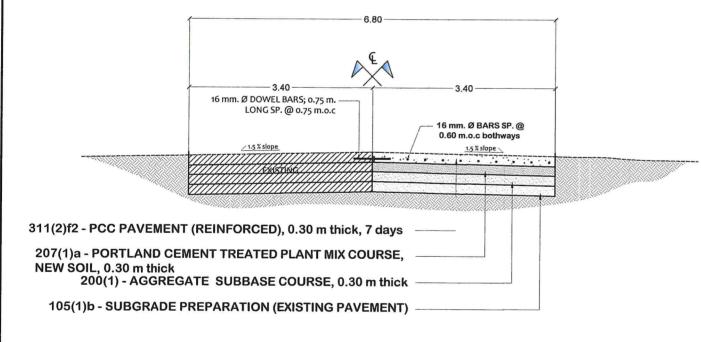


BATANGAS - QUEZON ROAD



(SEE TABLE OF REBLOCKING / STRAIGHT LINE DIAGRAM FOR STATIONING)

REBLOCKING AT ONE LANE (LL) LEFT LANE



(SEE TABLE OF REBLOCKING / STRAIGHT LINE DIAGRAM FOR STATIONING)

REBLOCKING AT ONE LANE (RL) RIGHT LANE



ITEM 200 - AGGREGATE SUB BASE COURSE

This item shall consist of furnishing, placing and compacting an aggregate subbase course on a prepared subgrade in accordance with this Specification and the lines, grades and cross-sections shown on the Plans, or as directed by the Engineer.

Aggregate for subbase shall consist of hard, durable particles or fragments of crushed stone, crushed slag, or crushed or natural gravel and filler of natural or crushed sand or other finely divided mineral matter. The composite material shall be free from vegetable matter and lumps or balls of clay, and shall be of such nature that it can be compacted readily to form a firm, stable subbase.

311(2)f2 Portland Cement Concrete Pavement (Reinforced), 0.30 m thick, 7 days						
STATION	STATION	LENGTH	WIDTH	NO. OF BLOCKS	AREA	REMARKS
Sta. 134 + (-127.00)	Sta. 134 + (-118.00)	9	3.4	2	30.6	LL
Sta. 134 + (-164.50)	Sta. 134 + (-151.00)	13.5	3.4	3	45.9	LL
Sta. 134 + (-178.50)	Sta. 134 + (-165.00)	13.5	3.4	3	45.9	RL
Sta. 134 + (-202.50)	Sta. 134 + (-189.00)	13.5	3.4	3	45.9	RL
Sta. 134 + (-347.00)	Sta. 134 + (-320.00)	27	3.4	6	91.8	LL
		76.50		17	260.1	

ITEM 311 - PORTLAND CEMENT CONCRETE PAVEMENT

This Item shall consist of pavement of Portland Cement Concrete, with or without reinforcement, constructed on the prepared base in accordance with this Specification and in conformity with lines, grades, thickness and typical cross-section shown on the Plans.

	REPUBLIC OF THE PHILIPPINES
*	DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
	REGIONAL OFFICE No. IV-A
	BATANGAS 2ND DISTRICT
****	ENGINEERING OFFICE
-	KUMINTANG ILAYA, BATANGAS CITY

CARRIAGEWAY MAINTENANCE - PAVEMENT MAINTENANCE - SELECTIVE REPLACEMENT OF CONCRETE PAVEMENT ALONG BATANGAS-QUEZON ROAD WITHIN K0134+(-654) - K0134+898 BATANGAS CITY, BATANGAS

PROJECT NAME AND LOCATION

TYPICAL ROADWAY SECTION

HEET CONTENT



REINALD KEVIN L. JOBOG

ENGINEER II

RECOMMENDED:

RONALDO C. FRAGO

CHIEF, MAINTENANCE SECTION
DATE:

RECOMMENDED:

ARIEL V. ARMEDILLA
ASSISTANT DISTRICT ENGINEER
DATE:

SONIA D. PAGLICAUAN
DISTRICT ENGINEER
DATE:

APPROVED:





STRAIGHT LINE DIAGRAM

LEGEND:

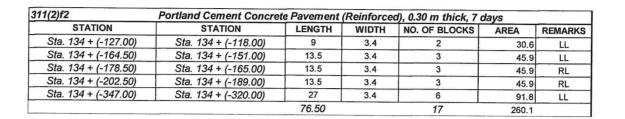
BATANGAS - QUEZON ROAD

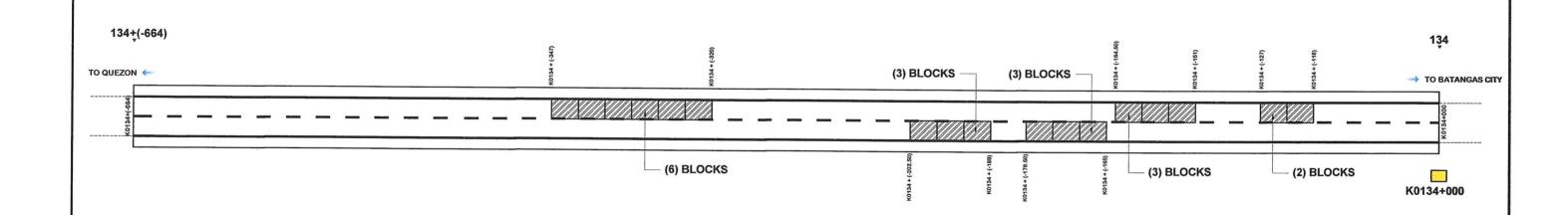
 NATIONAL	ROAD













REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. N'A
BATANGAS 2ND DISTRICT ENGINEERING OFFICE

PROJECT NAME AND LOCATION:

CARRIAGEWAY MAINTENANCE - PAVEMENT MAINTENANCE - SELECTIVE REPLACEMENT OF CONCRETE PAVEMENT ALONG BATANGAS-QUEZON ROAD WITHIN K0134+(-54) - K0134+898 BATANGAS CITY, BATANGAS CITY, BATANGAS CITY, BATANGAS CITY, BATANGAS

STRAIGHT LINE DIAGRAM

SHEET CONTENT:

DRAFTED: MAVERICK D. OLAYA

ADMINISTRATIVE ASSISTANT II (CAD OPERATOR) J.O. ANTHONY LAURENCE P. DY
ENGINEER II

REINALD KEVIN L. JOBOG

SUBMITTED:

REVIEWED:

RECOMMENDED: RONALDO C. FRAGO

SONIA D. PAGLICAUAN ARIEL V. ARMEDILLA DATE:

APPROVED:



