Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE SECRETARY
Manila

May 29, 2017

MEMORANDUM

FOR : **MARK A. VILLAR**
Secretary
This Department

This refers to the memorandum dated 23 May 2017 of **DPWH Region V OIC-Assistant Director ESMERALDO S. SARMIENTO,** requesting for the **modification** of the hereunder stated project:

Location	Project Description		Physical Target / Cost	
	as per GAA **UACS: 165003015300241**	***as modified***	***per GAA/Original***	***as modified***
Sorsogon 1st Lagislative District	**MFO-1 National Road Network Services:** Network Development - Construction of By-Passes/ Diversion Roads, including ROW, Sorsogon City Coastal By-Pass Road incl ROW and Bridge, Sorsogon *(Construction of Concrete Road)* *(Construction of Gravel Road)* *(Construction of Concrete Bridge)* *(ROW Acquisition)*	**MFO-1 National Road Network Services:** Network Development - Construction of By-Passes/ Diversion Roads, including ROW, Sorsogon City Coastal By-Pass Road incl ROW and Bridge, Sorsogon ***(Construction of Asphalt Road)*** ***(Construction of Concrete Road)*** ***(Construction of Two (2) Concrete Bridges)***	CW-1 Construction of Concrete Road: 4.308 Lane-km CW-2 Construction of Gravel Road: 2.08 Lane-km CW-3 Construction Concrete Bridge: 549 Sq.m. ROW Acquisition: 5862.5 Sq.m. **Unit Cost:** CW-1 Construction of Concrete Road: P23,212.628/ Lane-km CW-2 Construction of Gravel Road: P28,846.154/ Lane-km CW-3 Construction Concrete Bridge: P218.579/Sq.m. ROW Acquisition: P3.412/Sq.m.	CW-1 Construction of Asphalt Road: **12.88 Lane-km** CW-2 Construction of Concrete Road: **0.43628 Lane-km** CW-3 Construction Two (2) Concrete Bridges: **1,337.40 Sq.m.** **Unit Cost:** CW-1 Construction of Asphalt Road: **P16,357.094/ Lane-km** CW-2 Construction of Concrete Road: **P17,959.838/ Lane-km** CW-3 Construction Two (2) Concrete Bridges: **P60.928T/Sq.m.**
			Allocation: PhP 300M	**Estimated Cost:** PhP 300M

Justification: Modification is requested due to the change in physical target and component cost, viz;

1. CW1 - Construction of Concrete Road to Construction of Asphalt Road: Change in the scope of work and increases in physical target.
   - The construction of asphalt/flexible pavement is adopted instead of concrete pavement. The project road is not yet suitable for concrete paving due to the anticipated slight settlement of the embankment materials considering that it is on top of a rock causeway.
   - Decrease in unit cost was based on approved POW/DUPA using the prevailing construction cost of materials in the area. The increase in physical target is due to the inclusion of jogger's lane (2-lanes at 3.50m width each). It is an essential feature for the coastal road/boulevard and will function as a park and leisure area.

2. CW2 - Construction of Gravel Road to Concrete Road: Change/decrease in physical target is due to the new shorter alignment of the access road leading to the construction site for utilization of equipment and workers.
   - Change in the scope of work from gravel to concrete: Rigid pavement was adopted to be resilient to heavy loads (e.g. construction equipment) and will serve as alternate route after the completion of project.
   - Decrease in unit cost is based on approve POW/DUPA using the prevailing cost of construction materials for concrete road.
3. CW3 - Construction of Concrete Bridge: The original project calls for a 1 unit bridge only (Bypass Bridge-A). The increase in physical target is due to the inclusion of the Bypass Bridge -B to replace the existing RCBC, thus, providing wider waterway to prevent clogging during heavy rains/flooding.
   - The decrease in the unit cost is based on the approved POW/DUPA using the prevailing cost of construction materials for concrete bridge on bored piles.
4. RROW - the allocation for RROW is deleted since the section to be opened with RROW Acquisition will not be implemented this year, but on succeeding years.

Based on our evaluation, the submitted request for modification of the said project is in order; hence, approval hereof is recommended.

ROMEO S. MOMO, CESO I
Undersecretary for Luzon Operations

APPROVED/DISAPPROVED:

MARK A. VILLAR
Secretary

NOTE: *Copies of the approved project modification requests are forwarded to the Office of Undersecretary Maria Catalina E. Cabral, PhD, CESO I.*

2.4 mksa/AVS/ERP/RSM

May 29, 2017

MEMORANDUM

FOR : **MARK A. VILLAR**
Secretary
This Department

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   - Decrease in unit cost was based on approved POW/DUPA using the prevailing construction cost of materials in the area. The increase in physical target is due to the inclusion of jogger's lane (2-lanes at 3.50m width each). It is an essential feature for the coastal road/boulevard and will function as a park and leisure area.

2. CW2 - Construction of Gravel Road to Concrete Road: Change/decrease in physical target is due to the new shorter alignment of the access road leading to the construction site for utilization of equipment and workers.
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   - Decrease in unit cost is based on approve POW/DUPA using the prevailing cost of construction materials for concrete road.
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ROMEO S. MOMO, CESO I
Undersecretary for Luzon Operations

APPROVED/DISAPPROVED:

MARK A. VILLAR
Secretary

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2.4 mksa/AVS/ERP/RSM

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE V
Regional Government Center, Rawis, Legaspi City

May 23, 2017

MEMORANDUM

FOR : **Secretary MARK A. VILLAR**
This Department

THRU : **Undersecretary ROMEO S. MOMO, CESO I**
Undersecretary for Regional Operations

SUBJECT : **Modification Request for Project included under the FY 2017 GAA (RA 10924) within Sorsogon 1st Legislative District for Regional Office V Implementation**

We are submitting the proposed modification of One (1) project under **MFO-1 National Road Network Services, Network Development, Construction of By-Passes/ Diversion Roads, including ROW,** included in FY 2017 DPWH Infrastructure Program based on General Appropriations Act (GAA) RA 10924, for Regional Office implementation, viz.:

FROM				TO		
ORIGINAL LOCATION				RECOMMENDED NEW PROJECT TITLE		
PAP/ UACS Code No./ Project Component ID	Name/Location of Project	Physical Target	Allocation ('000)	Name/Location of Project	Physical Target	Allocation ('000)
I - PROGRAM **MFO 1 - National Road Network Services** **1. Network Development** **a. Construction of By-Passes/Diversion Roads, including ROW**				**I - PROGRAM** **MFO 1 - National Road Network Services** **1. Network Development** **a. Construction of By-Passes/Diversion Roads, including ROW**		
165003015300241				**Sorsogon City Coastal By-Pass Road incl Bridges, Sorsogon**		
P00109546LZ-CW1	Construction of Concrete Road - Sorsogon City Coastal By- Pass Road incl ROW and Bridge, Sorsogon	**4.308 lane km**	**100,000**	(P00109546LZ-CW1) Construction of Asphalt Road with Jogger's lane and bike lane	12.88 lane km	210,679.375
P00109546LZ-CW2	Construction of Gravel Road - Sorsogon City Coastal By- Pass Road incl ROW and Bridge, Sorsogon	**2.08 lane km**	**60,000**	(P00109546LZ-CW2) Construction of Concrete Road (Access Road)	.43628 lane km	7,835.518
P00109546LZ-CW3	Construction of Concrete Bridge - Sorsogon City Coastal By- Pass Road incl ROW and Bridge, Sorsogon	**549 Sq. meters**	**120,000**	(P00109546LZ-CW3) Construction of 2 Concrete Bridges (Bypass Bridge 1-Phase 1 and Bypass Bridge 2)	1337.4 Sq. meters	81,485.107
P00109545LZ-ROW	ROW Acquisition - Sorsogon City Coastal By-Pass Road incl ROW and Bridge, Sorsogon	**5863 Sq. meters**	**20,000**			
TOTAL			**300,000**			**300,000.000**

Attached are accomplished Evaluation Form for Modification, Approved Program of Work, Certificate of Availability of Funds, and Straight Line Diagram in support to the request.

For consideration and favorable action.

ESMERALDO S. SARMIENTO
OIC-Assistant Regional Director

RO5.1 LBD/EMV/VAM/MNL

Form for Evaluation of Modification Request (2017, version 2.1)

A. GENERAL

1. REGION	2. DEO	3. LEGISLATIVE DISTRICT
Region V	Sorsogon 1st DEO	Sorsogon 1st Legislative District

B. ORIGINAL PROJECT

4. UACS (Unified Account Code Structure as defined in GAA)
165003015300241

5. Project ID
P00109546LZ

Component ID(s)
P00109546LZ-CW1, P00109546LZ-CW2, P00109546LZ-CW3, P00109546LZ-ROW

6. Project Category
MFO-1 National Road Network Services

7. Thrust
Network Development - Construction of By-Passes/ Diversion Roads, including ROW

8. Type of Work (Enter Details for all Components below)

Component ID	Type of Work
P00106018LZ-CW1	Construction of Concrete Road
P00106018LZ-CW2	Construction of Gravel Road
P00106018LZ-CW3	Construction of Concrete Bridge
P00106018LZ-ROW	ROW Acquisition

9. PROJECT DESCRIPTION (as recorded in GAA]
Construction of Concrete Road –
Construction of Gravel Road –
Construction of Concrete Bridge –
ROW Acquisition –
Sorsogon City Coastal By- Pass Road incl ROW and Bridge, Sorsogon

10. ALLOCATION (P'000) (as recorded in GAA)
300,000

11. OBLIGATION (This must be checked to confirm there are no obligations) ☒ NO

12. PHYSICAL TARGET (Enter Details for all Components below)

Component ID	Target	Target Unit
P00106018LZ-CW1	4.308	Lane Km
P00106018LZ-CW2	2.08	Lane Km
P00106018LZ-CW3	549	Square Meters (m2)
P00106018LZ-ROW	5862.5	Square Meters (m2)

13. UNIT COST (Enter Details for all Components below)

Component ID	Component Cost (P'000)	Unit Cost (P'000)
P00106018LZ-CW1	100,000	P 23,212.628/ Lane Km
P00106018LZ-CW2	60,000	P 28,846.154/ Lane Km
P00106018LZ-CW3	120,000	P 218.579/Square Meters

C. NEW PROJECT

18. UACS (to be entered only upon approval of realignment)
165003015300241

19. Project ID (to be entered only upon approval of realignment)
P00109546LZ

Component ID(s) (to be entered only upon approval of realignment)
P00109546LZ-CW1, P00109546LZ-CW2, P00109546LZ-CW3

20. Project Category
MFO-1 National Road Network Services

21. Thrust
Network Development - Construction of By-Passes/ Diversion Roads, including ROW

22. Type of Work (Enter Details for all Components below)

Component ID	Type of Work
P00106018LZ-CW1	Construction of Asphalt Road
P00106018LZ-CW2	Construction of Concrete Road
P00106018LZ-CW3	Construction of Concrete Bridge: *(Bypass Bridge 1- Phase I, Bypass Bridge 2)*

23. PROJECT DESCRIPTION (of the new project]
Construction of Asphalt Road *with jogger's lane and bike lane–*
Construction of Concrete *Access Road*
Construction of Two (2) Concrete Bridges
Sorsogon City Coastal By-Pass Road incl Bridges, Sorsogon

24. ESTIMATED COST (P'000)
300,000

25. CAF (To be obtained from Financial Management office)
☒ YES

26. PHYSICAL TARGET (Enter Details for all Components below)

Component ID	Target	Target Unit
P00106018LZ-CW1	12.88	Lane Km
P00106018LZ-CW2	0.43628	Lane Km
P00106018LZ-CW3	1,337.40	Square Meters (m2)

27. UNIT COST (Enter Details for all Components below)

Component ID	Component Cost (P'000)	Unit Cost (P'000)
P00106018LZ-CW1	210,679.375	P 16,357.0943/ Lane Km
P00106018LZ-CW2	7,835.518	P 17,959.838 / Lane Km
P00106018LZ-CW3	81,485.107	P 60.928/ Square Meters

14. PROJECT LOCATION (Must be defined in strict accordance with DO 65 Series 2014)		28. PROJECT LOCATION (Must be defined in strict accordance with DO 65 Series 2014)	
Sorsogon 1st Legislative District - Sorsogon City Coastal By- Pass Road incl ROW and Bridge, Sorsogon		Sorsogon 1st Legislative District - Sorsogon City, Sorsogon - Sorsogon City Coastal By- Pass Road incl Bridges, Sorsogon	
Start X	**End X**	**Start X** 12°58'18.21"	**End X** 12°58'07.23"
Start Y	**End Y**	**Start Y** 124°01'12.33"	**End Y** 124°01'31.56"
15. ROAD CLASSIFICATION (if applicable)		**29. ROAD CLASSIFICATION** (if applicable)	
N/A		N/A	
16. IMPLEMENTING OFFICE (Record the Implementing Office of the original project)		**30. IMPLEMENTING OFFICE** (Record the Implementing Office of the new project)	
Regional Office V		Regional Office V	
17. PROJECT IMPLEMENTATION PLAN (PIP)		**31. PROJECT IMPLEMENTATION PLAN (PIP)**	
Planned Start Date	**Planned End Date**	**Planned Start Date**	**Planned End Date**
24 April 2017	24 April 2018	24 April 2017	24 April 2018
		32. OVERLAP?	
		No	
		33. WARRANTY	
		N/A	

D. EVALUATION & JUSTIFICATION

ASSET PRESERVATION (ROADS)	
34a. Existing Surface Type (from RBIA)	N/A
34b. Roughness (IRI) (from RBIA)	N/A
34c. RoCOND (from RBIA)	N/A
ASSET PRESERVATION (BRIDGES)	
34d. General Bridge Type (from BMS)	N/A
34e. Bridge Needs Ratio (BNR) (from BMS)	N/A
NETWORK DEVELOPMENT	
34f. Existing Surface Type (from RBIA)	N/A
34g. Volume Capacity Ratio (VCR) (from RBIA)	N/A
34h. Endorsement of Regional Development Council (RDC)	RDC Endorsed
34.i Feasibility and Other Technical Studies for Bridges	N/A
FLOOD CONTROL	
34j. Project Impact Analysis	N/A
34k. Master Plan	N/A

35. JUSTIFICATION

Modification is requested due to the change in physical target and sub-component cost, viz;

1. CW1 – Construction of Concrete Road to Construction of Asphalt Road
Change in the scope of work and increase in physical target.

Increase in physical target due to change in scope of work along the carriageway from "construction of concrete pavement" to "construction of asphalt/flexible pavement" since the project road is not yet suitable for concrete paving due to anticipated settlement of the embankment materials considering that it is on top of a rock causeway.

The project also includes jogger's lane (2-lanes at 3.50 m width each), which is an essential feature for a coastal road/boulevard. This will function as a park and leisure area

Decrease in unit cost was based on approved POW/DUPA using the prevailing construction cost of materials in the area..

2. CW2 – Construction of Gravel to Concrete Road
Rigid pavement was adopted for the construction of access road leading to the construction site to be resilient to heavy loads (e.g. construction equipment) and will serve as alternate route after the completion of project, hence the decrease in physical target.

The original proposed gravel road is the road opening part of the project but will not be implemented this year to give priority to the completion of rock causeway' road component.

Decrease in unit cost is based on approved POW/DUPA using the prevailing cost of construction materials for concrete road.

3. CW3 – Construction of Concrete Bridge.
The original project is for a 1 unit bridge only (Bypass Bridge 1). The increase in physical target is due to the inclusion of the Bypass Bridge 2, to replace the existing RCBC, providing wider waterway to provide access to fishermen's banca as requested by local fisherfolks and to prevent flooding in the area.

The decrease in the unit cost is based on the approved POW/DUPA using the prevailing cost of construction materials for concrete bridge on bored piles.

4. RROW – The allocation for RROW is deleted since the section to be opened with RROW Acquisition will not be implemented this year, but on succeeding years.

36. GEOTAGGED PHOTOS SUBMITTED ☒ NO ☐ YES

37. EVALUATED BY:
ESTER M. VARGAS, Chief, PPS-RO

38. DATE: 5/23/2017

E. REVIEW AND APPROVAL

REVIEWED:	MARILOU N. LACUNA, Chief of Planning and Design Division	**DATE: 5/23/2017**
RECOMMENDED:	ESMERALDO S. SARMIENTO, OIC-Assistant Regional Director	**DATE: 5/23/2017**
NOTED:		**DATE:**
ENDORSED / APPROVED:		**DATE:**

Region V
Rawis, Legazpi City

PROGRAM OF WORK / BUDGET COST

Name of Project:	**Construction of By-Passes/ Diversion Roads, including**	Roadbed Width:	15.04 m
	ROW - Sorsogon City Coastal By-Pass Road incl ROW and	Pavement Width:	14.70 m
	Bridge, Sorsogon	Bridge Width:	20.84
Location:	**Sorsogon 1st Legislative District**	Type of Superstructure: Bypass Bridge 1	Flat Slab
Appropriation:	P 300,000,000.00	Type of Superstructure: Bypass Bridge 2	Flat Slab
Source of Fund:	GAA FY - 2017	Type of Substructure:	Bored Pile
Classification:	Road & Bridge	No. of Span/Abut.: Bypass Bridge 1	5/2
Limits: Road	Sta. 0+000.00 - Sta. 1+796.60 (w/ Exception)	No. of Span/Abut.: Bypass Bridge 2	1/2
	Sta. 0+007.19 - Sta. 0+225.33 (Access Road)	No. of Piers: Bypass Bridge 1	4
Limits: Bridge	Sta. 0+525.70 - Sta. 0+586.30 (Bypass Bridge 1)	No. of Piers: Bypass Bridge 2	n/a
	Sta. 1+703.25 - Sta. 1+716.75 (Bypass Bridge 2)	No. of Cal. Days to Complete	330 C.D.
Net Length:	1.7225 km (Road) - (2.875 lane km; 0.21814 km (Access Road) - 0.43628 lane km		
	60.60 l.m. (Bypass Bridge 1) - 1262.90 sq.m. ; 13.50 (Bypass Bridge 2) - 281.34 sq.m.		

Description of Work to be Done	% of Total
Facilities for the Engineer	0.40
General Requirements	0.24
Earthworks	2.91
Bridge Construction	39.30
Subbase and Base Course	3.81
Surface Course	28.20
Drainage and Slope Protection Structures	10.46
Miscellaneous Structures	14.68
Gender and Development Attribution (7.34%)	
Road Safety (7.34%)	
Curb and Gutter, Precast	
Sidewalk, 100m thk.	
Reflectorized Thermoplastic Pavement Markings White	
Reflectorized Thermoplastic Pavement Markings Yellow	
Single Arm Post, with Street Light, 8m, LED, 130W	
Paver Blocks	
Total	100.00

EQUIPMENT		
TYPE	NUMBER NEEDED	NUMBER AVAILABLE
Backhoe/Payloader/Generator Set/Jack Hamme	1/1/1/2	
Dump Truck/Motorized Road Grader	3/1	
Vibratory Roller/Concrete Vibrator/Bulldozer	1/2/1	
Water Truck/Plate Compactor/Batching Plant	1/1/1	
Bar Bender/Bar Cutter/Drop Hammer	1/1/1	
Truck Mounted Crane/Water Pump/Power Broo	1/1/1	
Cutting Outfit/Bentonite Bin/Compressor	1/1/1	
Air Compressor/Cargo Truck/Bentonite Mixer	1/1/1	
Vibro Hammer w/ Hydraulic Power Pack	1	
Pile Integrity Testing (Sonic)/Grinding Machine	1/1	
Dynamic Pile Testing/Service Crane (25T)	1/1	
One Bagger Mixer/Tremie Pipe Set/Drilling Rig	1/1/1	
Pneumatic Tire Roller/Tandem Steel Roller	1/1	
Asphalt Distributor/Tower Lights/Concrete Screeder	1/1/1	
Welding Machine/Asphalt Paver/Boom Truck	1/1/1	
Crawler Crane (60T)/Crane w/ Bucket	1/1	
SPT & Desanding Machine/Portable Breaker	1/2	
Backhoe (Wheel Type)/Transit Mixer	1/4	

ESTIMATED COST OF PROGRAM OF WORK

Item No.	Description	Unit	Quantity	Unit Cost (P)	Total Cost (P)
Part A	**Facilities for the Engineer**				
A.1.1(6)	Provision of Combined Field Office, Laboratory and Living Quarters Building for the Engineer (Rental Basis)	month	11.00	11,340.00	124,740.00
A.1.2(2)	Provision of 4x4 Pick Up Type Service Vehicle for the Engineer on Bare Rental Basis	month	11.00	58,702.35	645,725.85
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	month	11.00	35,328.18	388,609.97
				Sub-Total:	***1,159,075.82***
Part B	**General Requirements**				
B.5	Project Billboard/Signboard	ea.	2.00	5,356.54	10,713.09
B.7	Occupational Safety and Health Program	month	11.00	28,469.46	313,164.08
B.9	Mobilization and Demobilization	l.s.	1.00	357,537.60	357,537.60
				Sub-Total:	***681,414.77***
I.	**ROADWAY**				
Part C	**Earthworks**				
102(2)	Surplus Common Excavation	cu. m.	17,372.00	174.98	3,039,832.11
103(6)a	Pipe Culverts and Drain Excavations, Common Soil	cu. m.	5,333.00	279.35	1,489,754.09
				Sub-Total:	***4,529,586.20***
Part D	**Subbase and Base Course**				
200(1)	Aggregate Subbase Course	cu. m.	6,907.00	746.82	5,158,261.26
201(1)	Aggregate Base Course	cu. m.	5,526.00	1,026.96	5,674,961.38
				Sub-Total:	***10,833,222.64***
Part E	**Surface Course**				
301(2)d	Bituminous Prime Coat - RC – Cut-back Asphalt, Grade 3000	sq. m.	23,598.00	85.26	2,012,004.42
302(2)	Emulsified Asphalt	sq. m.	23,598.00	57.72	1,362,101.43
310(2)	Bituminous Concrete Surface Binder Course, Hot-Laid (50 mm)	sq. m.	23,598.00	1,621.65	38,267,773.45
310(1)a3	Bituminous Concrete Surface Wearing Course, Hot-Laid (50 mm)	sq. m.	23,598.00	1,621.65	38,267,773.45
				Sub-Total:	***79,909,652.75***
Part G	**Drainage and Slope Protection Structures**				
500(1)a3	Pipe Culverts, 910mm dia., Class II, RCPC	l.m.	3,508.00	5,831.59	20,457,210.97
404(1)a	Reinforcing Steel, Grade 40	kg.	44,114.00	57.27	2,526,572.42
405(1)a3	Structural Concrete, fc' = 20.68 Mpa, Class "A", 28 Days	cu. m.	616.00	7,332.05	4,516,541.10
				Sub-Total:	***27,500,324.49***
Part H	**Miscellaneous Structures**				
	Gender and Development Attribution: Road Safety				
600(7)	Curb and Gutter, Precast	pc.	3,445.00	2,082.51	7,174,242.79
601(1)	Sidewalk, 100mm thk.	sq. m.	16,129.00	591.65	9,542,763.88
612(1)	Reflectorized Thermoplastic Pavement Markings White	sq. m.	829.00	848.49	703,400.63
612(2)	Reflectorized Thermoplastic Pavement Markings Yellow	sq. m.	15.00	907.72	13,615.84
624(1)a1	Single Arm Post, with Street Light, 8m, LED, 130W	each	148.00	141,757.04	20,980,042.04
807(9)	Paver Blocks	sq. m.	3,591.00	832.94	2,991,102.26
				Sub-Total:	***41,405,167.43***
				Total for I	***164,177,953.51***
II.	**ACCESS ROAD**				
Part C	**Earthworks**				
102(2)	Surplus Common Excavation	cu. m.	394.00	174.98	68,943.92
104(2)a	Embankment from Borrow, Common Soil	cu. m.	3,215.00	527.58	1,696,158.31
				Sub-Total:	***1,765,102.23***
Part D	**Subbase and Base Course**				
200(1)	Aggregate Subbase Course	cu. m.	266.00	746.82	198,653.18
				Sub-Total:	***198,653.18***

Prepared by:

WARREN V. GUMABAO/ERWIN R. MACATINGRAO
Engineer II *Engineer II*

MENDIBEL N. SAÑOSA
Engineer III

Checked by:

VICENTE A. MIRABALLES
Asst. Chief, Planning and Design Division

Submitted by:

MARILOU N. LACUNA
Chief, Planning and Design Division

Approved:
For and in the absence of the Regional Director

ESMERALDO S. SARMIENTO
OIC - Assistant Regional Director

Name of Project:	**Construction of By-Passes/ Diversion Roads, including**	Roadbed Width:	25.04 m
	ROW - Sorsogon City Coastal By-Pass Road incl ROW and	Pavement Width:	14.70m
	Bridge, Sorsogon	Bridge Width:	20.84
Location:	**Sorsogon 1st Legislative District**	Type of Superstructure: Bypass Bridge 1	Flat Slab
Appropriation:	P 300,000,000.00	Type of Superstructure: Bypass Bridge 2	Flat Slab
Source of Fund:	GAA FY - 2017	Type of Substructure:	Bored Pile
Classification:	Road & Bridge	No. of Span/Abut.: Bypass Bridge 1	5/2
Limits: Road	Sta. 0+000.00 - Sta. 1+796.60 (w/ Exception)	No. of Span/Abut.: Bypass Bridge 2	1/2
	Sta. 0+007.19 - Sta. 0+225.33 (Access Road)	No. of Piers: Bypass Bridge 1	4
Limits: Bridge	Sta. 0+525.70 - Sta. 0+586.30 (Bypass Bridge 1)	No. of Piers: Bypass Bridge 2	n/a
	Sta. 1+703.25 - Sta. 1+716.75 (Bypass Bridge 2)	No. of Cal. Days to Complete	330 C.D.
Net Length:	1.7225 km (Road) - 3.2275lane km; 0.21814 km (Access Road) - 0.43628 lane km		
	60.60 l.m. (Bypass Bridge 1) - 1262.90 sq.m. ; 13.50 (Bypass Bridge 2) - 281.34 sq.m.		

Description of Work to be Done	% of Total
Facilities for the Engineer	0.40
General Requirements	0.24
Earthworks	2.91
Bridge Construction	39.30
Subbase and Base Course	3.81
Surface Course	28.20
Drainage and Slope Protection Structures	10.46
Miscellaneous Structures	14.68
Gender and Development Attribution (7.34%)	
Road Safety (7.34%)	
Curb and Gutter, Precast	
Sidewalk, 100m thk.	
Reflectorized Thermoplastic Pavement Markings White	
Reflectorized Thermoplastic Pavement Markings Yellow	
Single Arm Post, with Street Light, 8m, LED, 130W	
Paver Blocks	
Total	100.00

EQUIPMENT		
TYPE	NUMBER NEEDED	NUMBER AVAILABLE
Backhoe/Payloader/Generator Set/Jack Hamme	1/1/1/2	
Dump Truck/Motorized Road Grader	3/1	
Vibratory Roller/Concrete Vibrator/Bulldozer	1/2/1	
Water Truck/Plate Compactor/Batching Plant	1/1/1	
Bar Bender/Bar Cutter/Drop Hammer	1/1/1	
Truck Mounted Crane/Water Pump/Power Broo	1/1/1	
Cutting Outfit/Bentonite Bin/Compressor	1/1/1	
Air Compressor/Cargo Truck/Bentonite Mixer	1/1/1	
Vibro Hammer w/ Hydraulic Power Pack	1	
Pile Integrity Testing (Sonic)/Grinding Machine	1/1	
Dynamic Pile Testing/Service Crane (25T)	1/1	
One Bagger Mixer/Tremie Pipe Set/Drilling Rig	1/1/1	
Pneumatic Tire Roller/Tandem Steel Roller	1/1	
Asphalt Distributor/Tower Lights/Concrete Screeder	1/1/1	
Welding Machine/Asphalt Paver/Boom Truck	1/1/1	
Crawler Crane (60T)/Crane w/ Bucket	1/1	
SPT & Desanding Machine/Portable Breaker	1/2	
Backhoe (Wheel Type)/Transit Mixer	1/4	

Item No.	Description	Unit	Quantity	Unit Cost (P)	Total Cost (P)
Part E	**Surface Course**				
311(1)c1	Portland Cement Concrete Pavement (Unreinforced), 0.23 m thick, 14 days	sq. m.	1,331.00	1,304.66	1,736,496.29
				Sub-Total:	***1,736,496.29***
Part G	**Drainage and Slope Protection Structures**				
103(1)a	Structure Excavation, Common Soil	cu. m.	131.00	279.35	36,594.37
103(3)	Foundation Fill	cu. m.	46.00	1,068.94	49,171.07
403(4)	Structural Steel, furnished, and fabricated	kg.	12.00	89.63	1,075.55
404(1)a	Reinforcing Steel, Grade 40	kg.	9,881.00	57.27	565,921.52
405(1)a3	Structural Concrete, fc' = 20.68 Mpa, Class "A", 28 Days	cu. m.	154.00	7,332.05	1,129,135.27
505(2)a	Grouted Riprap, Class A	cu. m.	337.00	2,923.82	985,328.68
				Sub-Total:	***2,767,226.47***
Part H	**Miscellaneous Structures**				
600(7)	Curb and Gutter, Precast	pc.	436.00	2,082.51	907,973.83
612(1)	Reflectorized Thermoplastic Pavement Markings White	sq. m.	219.00	848.49	185,819.95
				Sub-Total:	***1,093,793.78***
				Total for II	***7,561,271.95***
III.	**BYPASS BRIDGE 1**				
Part C	**Earthworks**				
104(2)a	Embankment from Borrow, Common Soil	cu. m.	5.00	527.58	2,637.88
104(5)	Boulder Fill	cu. m.	805.00	1,323.56	1,065,465.15
				Sub-Total:	***1,068,103.03***
Part F	**Bridge Construction**				
400(23)a5	Bored Piles, 1.20m	l.m.	900.00	40,630.45	36,567,401.50
400(24)e1	Permanent Casing, 1.20m (10mm thk.)	l.m.	648.00	21,869.90	14,171,692.10
400(27)b	Pile Integrity Testing, Low Strain	each	10.00	79,871.57	798,715.68
400(28)	High Strain Dynamic Testing (P.D.A)	each	5.00	155,638.98	778,194.90
401(2)a	Concrete Railing, Standard	l.m.	120.00	3,832.00	459,839.96
404(1)a	Reinforcing Steel, Grade 40	kg.	220.00	57.27	12,600.22
404(1)b	Reinforcing Steel, Grade 60	kg.	145,425.00	61.38	8,925,654.17
405(1)a3	Structural Concrete, fc' = 20.68 Mpa, Class "A", 28 Days	cu. m.	15.00	7,332.05	109,980.71
405(1)b3	Structural Concrete, fc' = 27.58 Mpa, Class "A", 28 Days	cu. m.	1,059.00	9,692.28	10,264,123.30
509(3)c	Sheet Piles, Concrete, Furnished and Driven	l.m.	1,920.00	4,635.52	8,900,189.26
517(1)a	Drain Pipe, Galvanized	l.m.	48.00	12,260.02	588,480.97
				Sub-Total:	***81,576,872.76***
				Total for III	***82,644,975.79***

Prepared by:

WARREN V. GUMABAO/ERWIN R. MACATINGRAO
Engineer II *Engineer II*

MENDIPEL N. SAÑOSA
Engineer III

77 P Cy

Checked by:

VICENTE A. MIRABALLES
Asst. Chief, Planning and Design Division

Submitted by:

MARILOU N. LACUNA
Chief, Planning and Design Division

Approved:
For and in the absence of the Regional Director

ESMERALDO S. SARMIENTO
OIC - Assistant Regional Director

PROGRAM OF WORK / BUDGET COST

Name of Project:	**Construction of By-Passes/ Diversion Roads, including**	Roadbed Width:	25.00 m
	ROW - Sorsogon City Coastal By-Pass Road incl ROW and	Pavement Width:	14.70 m
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	Sta. 0+007.19 - Sta. 0+225.33 (Access Road)	No. of Piers: Bypass Bridge 1	4
Limits: Bridge	Sta. 0+525.70 - Sta. 0+586.30 (Bypass Bridge 1)	No. of Piers: Bypass Bridge 2	n/a
	Sta. 1+703.25 - Sta. 1+716.75 (Bypass Bridge 2)	No. of Cal. Days to Complete	330 C.D.
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Surface Course	28.20
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Gender and Development Attribution (7.34%)	
Road Safety (7.34%)	
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Sidewalk, 100m thk.	
Reflectorized Thermoplastic Pavement Markings White	
Reflectorized Thermoplastic Pavement Markings Yellow	
Single Arm Post, with Street Light, 8m, LED, 130W	
Paver Blocks	
Total	100.00

EQUIPMENT		
TYPE	NUMBER	
	NEEDED	AVAILABLE
Backhoe/Payloader/Generator Set/Jack Hamme	1/1/1/2	
Dump Truck/Motorized Road Grader	3/1	
Vibratory Roller/Concrete Vibrator/Bulldozer	1/2/1	
Water Truck/Plate Compactor/Batching Plant	1/1/1	
Bar Bender/Bar Cutter/Drop Hammer	1/1/1	
Truck Mounted Crane/Water Pump/Power Broo	1/1/1	
Cutting Outfit/Bentonite Bin/Compressor	1/1/1	
Air Compressor/Cargo Truck/Bentonite Mixer	1/1/1	
Vibro Hammer w/ Hydraulic Power Pack	1	
Pile Integrity Testing (Sonic)/Grinding Machine	1/1	
Dynamic Pile Testing/Service Crane (25T)	1/1	
One Bagger Mixer/Tremie Pipe Set/Drilling Rig	1/1/1	
Pneumatic Tire Roller/Tandem Steel Roller	1/1	
Asphalt Distributor/Tower Lights/Concrete Screeder	1/1/1	
Welding Machine/Asphalt Paver/Boom Truck	1/1/1	
Crawler Crane (60T)/Crane w/ Bucket	1/1	
SPT & Desanding Machine/Portable Breaker	1/2	
Backhoe (Wheel Type)/Transit Mixer	1/4	

Item No.	Description	Unit	Quantity	Unit Cost (P)	Total Cost (P)
IV.	**BYPASS BRIDGE 2**				
Part C	**Earthworks**				
104(2)a	Embankment from Borrow, Common Soil	cu. m.	5.00	527.58	2,637.88
104(5)	Boulder Fill	cu. m.	805.00	1,323.56	1,065,465.15
				Sub-Total:	***1,068,103.03***
Part F	**Bridge Construction**				
400(23)a5	Bored Piles, 1.20m	l.m.	300.00	40,630.45	12,189,133.83
400(24)e1	Permanent Casing, 1.20m (10mm thk.)	l.m.	216.00	21,869.90	4,723,897.37
400(27)b	Pile Integrity Testing, Low Strain	each	6.00	79,871.57	479,229.41
400(28)	High Strain Dynamic Testing (P.D.A)	each	6.00	155,638.98	933,833.87
401(2)a	Concrete Railing, Standard	l.m.	24.00	3,832.00	91,967.99
404(1)a	Reinforcing Steel, Grade 40	kg.	220.00	57.27	12,600.22
404(1)b	Reinforcing Steel, Grade 60	kg.	30,978.00	61.38	1,901,316.25
405(1)a3	Structural Concrete, fc' = 20.68 Mpa, Class "A", 28 Days	cu. m.	15.00	7,332.05	109,980.71
405(1)b3	Structural Concrete, fc' = 27.58 Mpa, Class "A", 28 Days	cu. m.	288.00	9,692.28	2,791,376.31
509(3)c	Sheet Piles, Concrete, Furnished and Driven	l.m.	1,920.00	4,635.52	8,900,189.26
517(1)a	Drain Pipe, Galvanized	l.m.	6.00	12,260.02	73,560.12
				Sub-Total:	***32,207,085.33***
				Total for IV	***33,275,188.36***

BREAKDOWN OF ESTIMATED EXPENDITURES

1.	Labor	237,866,687.70	A.	Total Cost	289,499,880.20
2.	Materials		B.	Quality Control	
3.	Rentals of Equipment		C.	Eng'g. Admin. Overhead	3.5% 10,500,000.00
4.	VAT/TAX	13,785,708.58	D.	Reserve for Tree Planting	
5.	Indirect Cost/Mark-Up	37,847,483.92	E.	Reserve for RROW	
6.	Eng'g. Administrative Overhead	10,500,000.00	F.	R.O. Retention	
7.	Reserve for RROW		G.	C.O. Retention	
8.	Reserve for Tree Planting			**TOTAL ESTIMATED COST**	299,999,880.20
	TOTAL	299,999,880.20		**SAY**	**300,000,000.00**

Prepared by:

WARREN V. GUMABAO/ERWIN R. MACATINGRAO
Engineer II *Engineer II*

MENDIBIL N. SAÑOSA
Engineer III

Checked by:

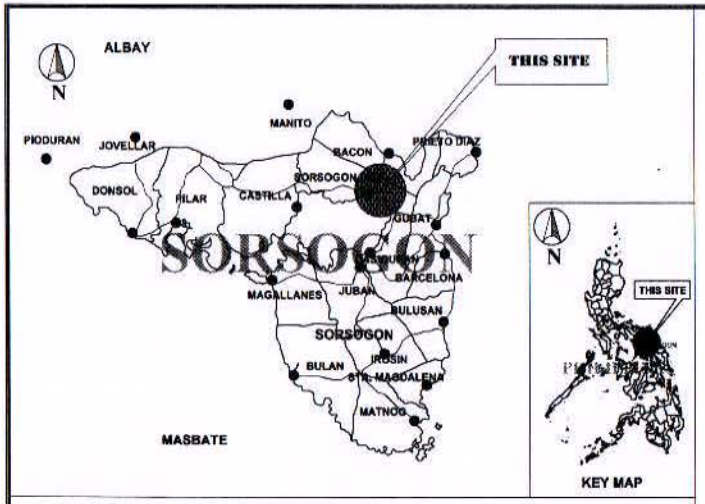
VICENTE A. MIRABALLES
Asst. Chief, Planning and Design Division

Submitted by:

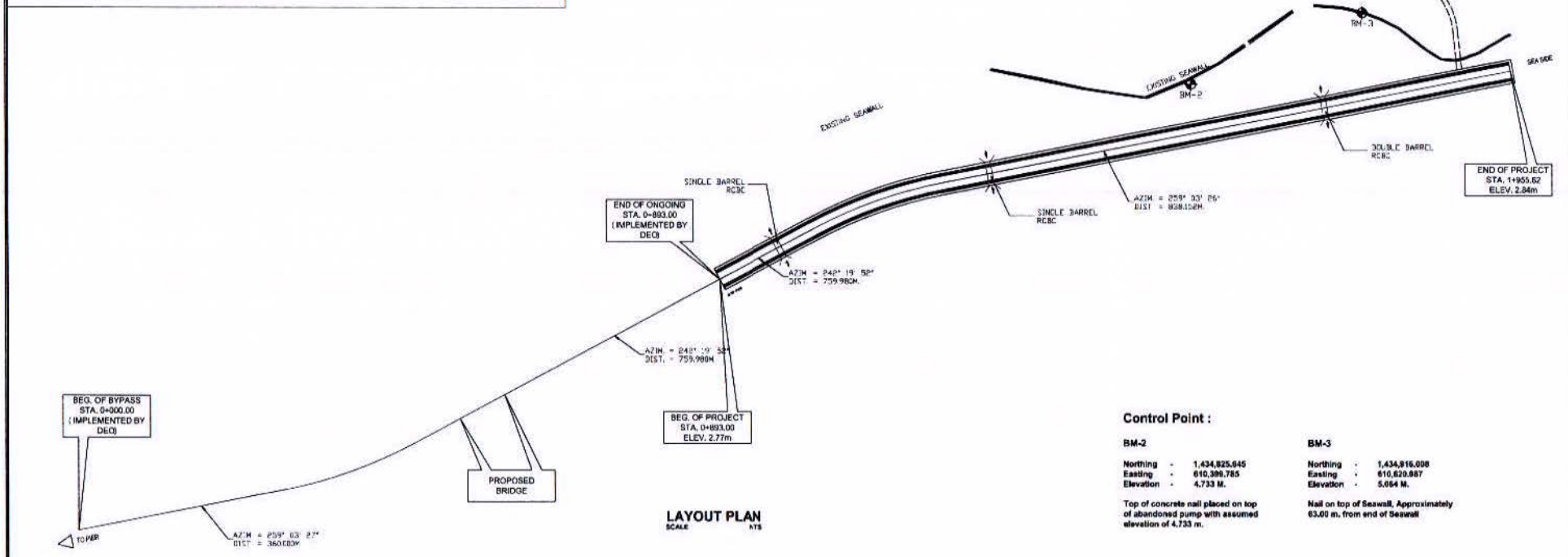
MARILOU N. LACUNA
Chief, Planning and Design Division

Approved:
For and in the absence of the Regional Director

ESMERALDO S. SARMIENTO
OIC - Assistant Regional Director



VICINITY MAP



LAYOUT PLAN

SCALE NTS

Control Point :

BM-2

Northing - 1,434,825.045
Easting - 610,300.785
Elevation - 4.733 M.

Top of concrete nail placed on top of abandoned pump with assumed elevation of 4.733 m.

BM-3

Northing - 1,434,916.008
Easting - 610,620.887
Elevation - 5.064 M.

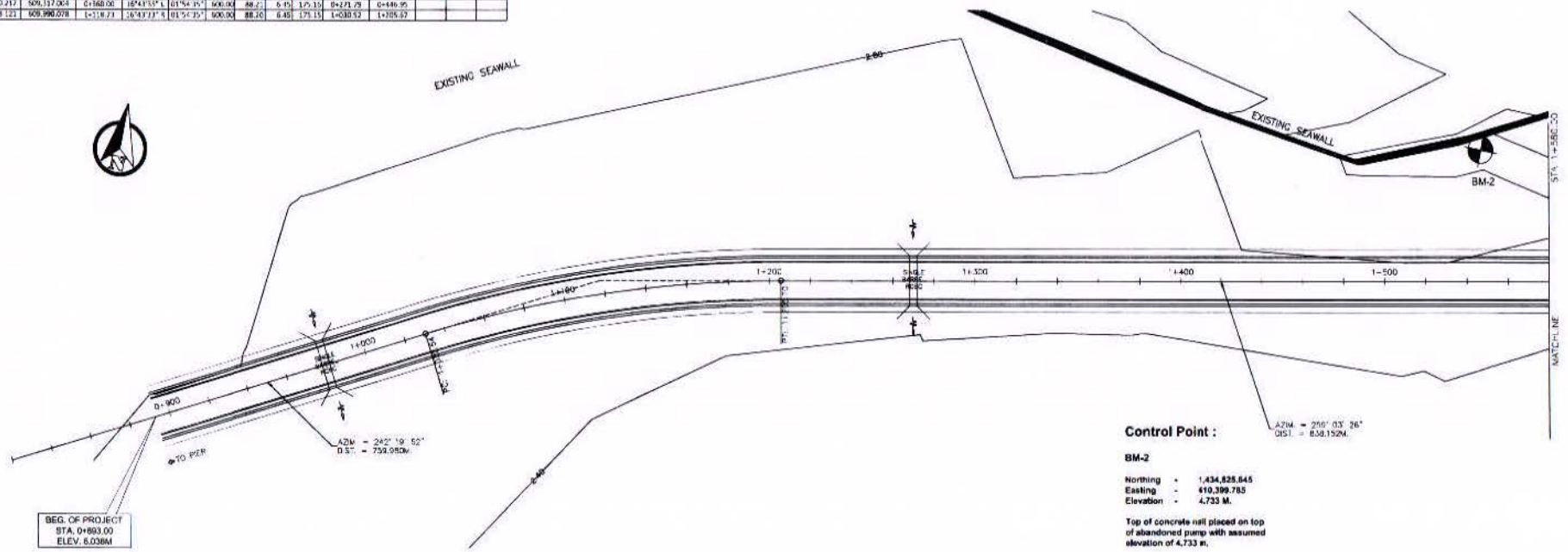
Nail on top of Seawall, Approximately 63.00 m. from end of Seawall

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No.V
REGIONAL CENTER SITE, Rawis, LEGAZPI CITY

PROJECT AND LOCATION :	SHEET CONTENTS :	SURVEYED BY :	CHECKED BY :	REVIEWED BY :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED :	SET NO.	SHEET NO.
CONSTRUCTION OF BY-PASSES/DIVERSION ROADS, INCLUDING RIGHT-OF-WAY SORSOGON CITY COASTAL BYPASS ROAD, SORSOGON 1ST LD LOCATION: SORSOGON "S", 2ND ENGR. DIST. FIRST	LAYOUT PLAN, KEY MAP AND VICINITY MAP	ERWIN R. MACATANGRAO ENGINEER II SYVIRINA M. ARUTAS ENGINEER III	SALVADOR MARC R. BOTIN ENGINEER II MENDREL N. SARROSA ENGINEER III	VICENTE A. MIRABALES ASSISTANT CHIEF, PDD	MARIOLI N. LACUNA CHIEF, PLANNING & DESIGN DIVISION	ARMANDO G. ESTRELLA, CESO V ASSISTANT REGIONAL DIRECTOR	REYNALDO G. TAGUDANDO REGIONAL DIRECTOR, REGION V	0-3	3 37

TABLE OF ELEMENTS OF CURVE

PI No.	NORTHING	EASTING	STATION	I	D	R	T	E	Lc	PC	PT	V	c%	w (m.)
BOA	1,434,261.881	608,963.549	0+000.00											
PI - 1	1,434,330.217	609,137.004	0+360.00	18°43'55" L	01°54'35"	600.00	88.27	6.45	175.15	0+271.79	0+446.95			
PI - 2	1,434,683.121	609,990.078	1+119.73	36°43'33" R	01°54'35"	600.00	88.30	6.45	175.15	1+030.52	1+205.67			

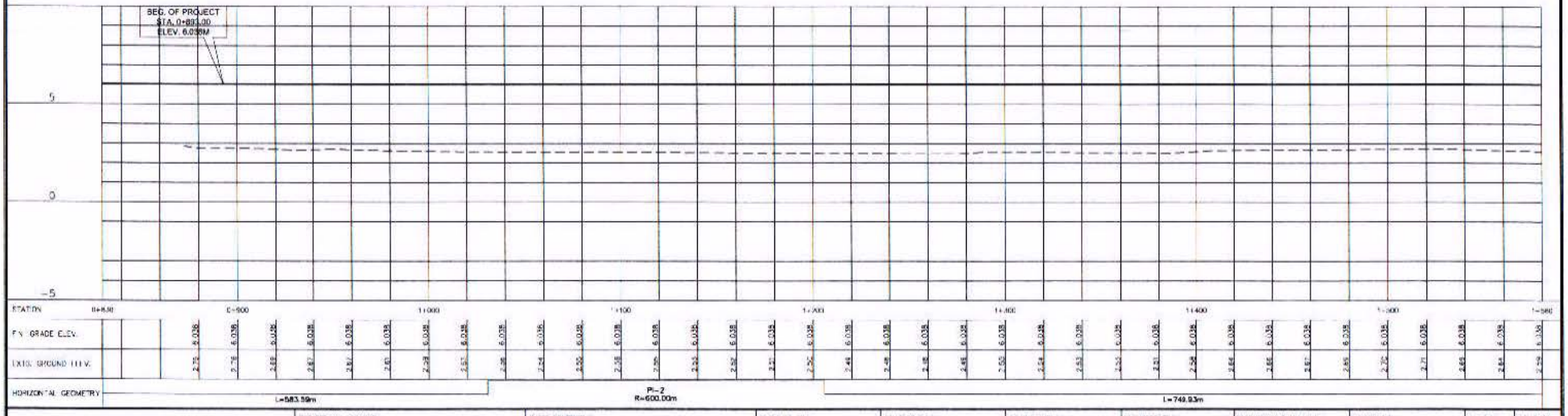


Control Point :

BM-2

Northing - 1,434,828.845
Easting - 610,399.785
Elevation - 4.733 M.

Top of concrete nail placed on top of abandoned pump with assumed elevation of 4.733 m.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
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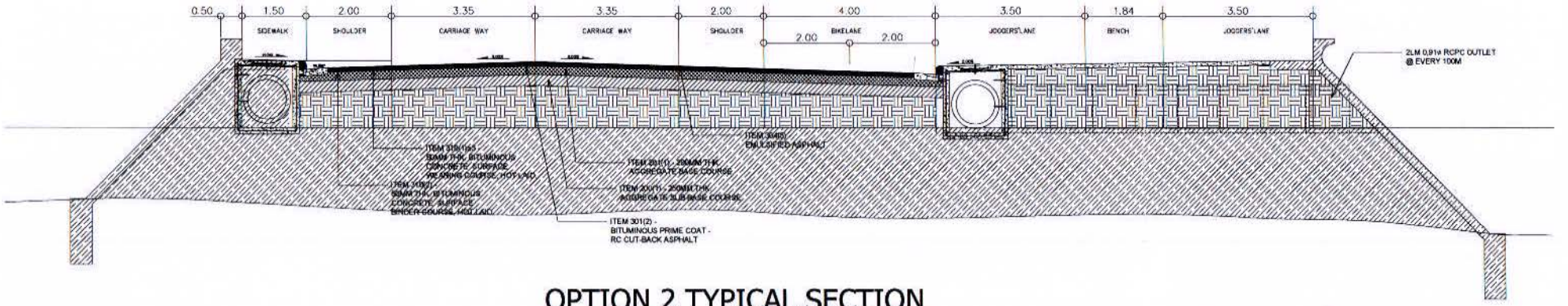
CONSTRUCTION OF BY-PASSES/DIVERSION ROADS, INCLUDING RIGHT-OF-WAY SORSOGON CITY COASTAL BYPASS ROAD, SORSOGON 1ST LD LOCATION: SORSOGON 1ST DISTRICT	PLAN AND PROFILE K0 0+893.00 - K0 1+580.00	JEWIN C. MAGAMPAO ENGINEER II SYLVINA M. RAMOS ENGINEER III	SALVADOR MARC R. JOHN ENGINEER II WENBERT N. SANTOS ENGINEER III	JOCELYN A. MIRANDILLA ASSISTANT CHIEF, PDD	MARIDO N. TACLINA CHIEF, PLANNING & DESIGN DIVISION	ARNANDO G. ESTRELLA, CESO V ASSISTANT REGIONAL DIRECTOR	REYNALDO S. TACLIBANDO REGIONAL DIRECTOR, REGION V	R-8	14 37

Construction of By-Passes/ Diversion Roads, including
ROW - Sorsogon City Coastal By-Pass Road including ROW and Bridge, Sorsogon
Location: Sorsogon 1st Legislative District



OPTION 2 TYPICAL SECTION
SCALE 1:50

No. of Lanes = $\frac{W_T}{3.35}$

= $\frac{25.04\ m}{3.35\ m}$

= 7.474 lane

Net Length in Lane km = L_T (no. of lanes)

= 1.725km (7.47 lane = 12.88 lane-km

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE REGIONAL DIRECTOR
Region V
Regional Government Center, Rawis, Legazpi City

CERTIFICATE OF AVAILABILITY OF ALLOTMENT

This is to certify that the amount of **TWO HUNDRED NINETY FIVE MILLION FIVE HUNDRED THOUSAND PESOS ONLY (295,500,000.00)** for Network Development Construction of By-Passes/ Diversion Roads, including ROW Sorsogon City Coastal By-Pass Road incl ROW and Bridge, Sorsogon of SR2017-01-000281 dated January 28, 2017 RA 10924 is still available for obligation.

Issued this 23rd day of May, 2017 for record and reference purposes.

SHEILA V. BARRO
Administrative Officer V
(Budget Officer III)

FE M. MAGANA
Chief Administrative Officer
(Fiscal Controller V)

ESMERALDO S. SARMIENTO
OIC- Asst. Regional Director

UACS PAP	Project Component Description	Project Component ID	Type of Work	Target Unit	Target	Allocation	Operating Unit / Implementing Office	Revisions Flag
	Asset Preservation of National Roads - Rehabilitation/ Reconstruction/ Upgrading of Damaged Paved National Roads including drainage based on Pavement Management System/ Highway Development Management-4 (HDM-4) - Primary							
165003014100139	Rehabilitation of Asphalt Road - Daang Maharlika (LZ) - K0548 + 647 - K0548 + 697, K0556 + 833 - K0557 + 000, K0562 + 600 - K0562 + 670, K0569 + 414 - K0569 + 504	P00101541LZ-CW1	Rehabilitation of Asphalt Road	Lane Km	0.76	13,477,000	Sorsogon District Engineering Office / Sorsogon District Engineering Office	
	Asset Preservation of National Roads - Rehabilitation/ Reconstruction/ Upgrading of Damaged Paved National Roads including drainage based on Pavement Management System/ Highway Development Management-4 (HDM-4) - Tertiary							
165003014300216	Reconstruction from Concrete to Concrete - Bacon-Sawanga-Prieto Diaz Rd - K0591 + -959 - K0591 + -440, K0591 + -427 - K0591 + -096, K0596 + 512 - K0597 + 000, K0602 + 713 - K0603 + 000, K0604 + 421 - K0604 + 715, K0606 + 313 - K0606 + 425, K0606 + 828 - K0607 + 600, K0609 + 155 - K0609 + 227, K0609 + 970 - K0610 + 000	P00102789LZ-CW1	Reconstruction from Concrete to Concrete	Lane Km	6.796	78,000,000	Central Office / Sorsogon District Engineering Office	
165003014300347	Reconstruction from Concrete to Concrete - Jct Donsol-Banuang Gurang Rd - K0578+800 - K0579+732, K0580+604 - K0580+906, K0583+540 - K0584+423, K0585+046 - K0585+333	P00102773LZ-CW1	Reconstruction from Concrete to Concrete	Lane Km	4.6	48,000,000	Sorsogon District Engineering Office / Sorsogon District Engineering Office	
165003014300348	Reconstruction from Concrete to Concrete - Jct Putiao-Pilar-Donsol Rd - K0561+145 - K0561+492, K0561+596 - K0562+000, K0562+475 - K0562+622	P00102795LZ-CW1	Reconstruction from Concrete to Concrete	Lane Km	1.866	21,319,000	Sorsogon District Engineering Office / Sorsogon District Engineering Office	
	Asset Preservation of National Roads - Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide - Primary							
165003014400066	Construction of Road Slope Protection Structure - Daang Maharlika (LZ) - K0542+234 - K0542+374, K0565+430 - K0565+515, K0567+247 - K0567+321, K0568+529 - K0568+636, K0568+947 - K0569+000	P00103021LZ-CW1	Construction of Road Slope Protection Structure	Square meters	2095	13,020,000	Sorsogon District Engineering Office / Sorsogon District Engineering Office	
	Asset Preservation of National Roads - Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide - Tertiary							
165003014600214	Construction of Road Slope Protection Structure - Jct Donsol-Banuang Gurang Rd - K0575+910 - K0576+006, K0576+104 - K0576+134, K0576+183 - K0576+200, K0576+255 - K0576+282, K0576+638 - K0576+715, K0576+838 - K0576+920, K0584+423 - K0584+450, K0584+706 - K0584+787	P00104201LZ-CW1	Construction of Road Slope Protection Structure	Square meters	2129	10,845,000	Sorsogon District Engineering Office / Sorsogon District Engineering Office	
165003014600215	Construction of Road Slope Protection Structure - Jct Putiao-Pilar-Donsol Rd - K0561+-300 - K0561+-228, K0561+(-144) - K0561+-047, K0561+740 - K0561+762	P00104200LZ-CW1	Construction of Road Slope Protection Structure	Square meters	1284	5,258,000	Sorsogon District Engineering Office / Sorsogon District Engineering Office	
	Network Development - Construction of By-Passes/ Diversion Roads, including ROW							
165003015300241	Construction of Concrete Bridge - Sorsogon City Coastal By-Pass Road incl ROW and Bridge, Sorsogon	P00109546LZ-CW3	Construction of Concrete Bridge	Square meters	549	120,000,000	Central Office / Region V	
165003015300241	Construction of Concrete Road - Sorsogon City Coastal By-Pass Road incl ROW and Bridge, Sorsogon	P00109546LZ-CW1	Construction of Concrete Road	Lane Km	4.308	100,000,000	Central Office / Region V	

UACS PAP	Project Component Description	Project Component ID	Type of Work	Target Unit	Target	Allocation	Operating Unit / Implementing Office	Revisions Flag
165003015300241	Construction of Gravel Road - Sorsogon City Coastal By-Pass Road incl ROW and Bridge, Sorsogon	P00109546LZ-CW2	Construction of Gravel Road	Lane Km	2.08	60,000,000	Central Office / Region V	
165003015300241	ROW Acquisition - Sorsogon City Coastal By-Pass Road incl ROW and Bridge, Sorsogon	P00109546LZ-ROW	ROW Acquisition	Square meters	5862.5	20,000,000	Central Office / Region V	
	Network Development - Construction of Missing Gaps connecting National Roads, Including ROW							
165003015400100	Construction of Concrete Bridge - Bacon-Manito Road incl. Bridge and Slope Protection, Sorsogon	P00111029LZ-CW1	Construction of Concrete Bridge	Square meters	380.8	60,000,000	Central Office / Region V	
165003015400100	Construction of Gravel Road - Bacon-Manito Road incl. Bridge and Slope Protection, Sorsogon	P00111029LZ-CW2	Construction of Gravel Road	Lane Km	5.267	80,000,000	Central Office / Region V	
165003015400100	Construction of Road Slope Protection Structure - Bacon-Manito Road incl. Bridge and Slope Protection, Sorsogon	P00111029LZ-CW3	Construction of Road Slope Protection Structure	Square meters	1142.857	10,000,000	Central Office / Region V	
	Network Development - Improvement/Widening of National Roads - N1							
165003016500037	Road Widening - Daang Maharlika (LZ) - K0555 + 883 - K0555 + 909, K0557 + 980 - K0558 + 000, K0559 + 485 - K0559 + 573, K0567 + 439 - K0567 + 760, K0568 + 974 - K0570 + 400, K0581 + 680 - K0581 + 845, K0584 + 900 - K0584 + 950, K0599 + 751 - K0599 + 998	P00107525LZ-CW1	Road Widening	Lane Km	4.445	73,067,000	Central Office / Sorsogon District Engineering Office	
	Network Development - Improvement/Widening of National Roads - Secondary							
165003015100228	Road Widening - Sorsogon Diversion Rd, including RROW - K0577 + 475 - K0578 + 956, K0579 + 210 - K0579 + 402, K0579 + 417 - K0580 + 636, K0582 + 376 - K0583 + 240	P00108624LZ-CW1	Road Widening	Lane Km	7.5	101,250,000	Central Office / Region V	
165003015100228	ROW Acquisition - Sorsogon Diversion Rd, including RROW - K0577 + 475 - K0578 + 956, K0579 + 210 - K0579 + 402, K0579 + 417 - K0580 + 636, K0582 + 376 - K0583 + 240	P00108624LZ-ROW	ROW Acquisition	Square meters	14776	48,750,000	Central Office / Region V	
	Network Development - Off-Carriageway Improvement including drainage - Primary							
165003016700007	Off-Carriageway Improvement: Shoulder Paving / Construction - Daang Maharlika (LZ) - K0556 + 000 - K0557 + 084, K0558 + 000 - K0559 + 777, K0559 + 819 - K0560 + 024, K0565 + 750 - K0565 + 811, K0565 + 845 - K0566 + 071, K0574 + 047 - K0574+147, K0574 + 173 - K0576 + 000, K0576 + 500 - K0576 + 577, K0577 + 562 - K0579 + 000, K0580 + 699 - K0581 + 571, K0584 + 950 - K0585 + 129, K0585 + 153 - K0585 + 287, K0595 + 473 - K0595 + 873, K0595 + 885 - K0596 + 093, K0597 + 240 - K0597 + 411, K0597 + 430 - K0597 + 535, K0598 + 347 - K0599 + 294	P00106018LZ-CW1	Off-Carriageway Improvement: Shoulder Paving / Construction	Square meters	30270	150,000,000	Central Office / Region V	