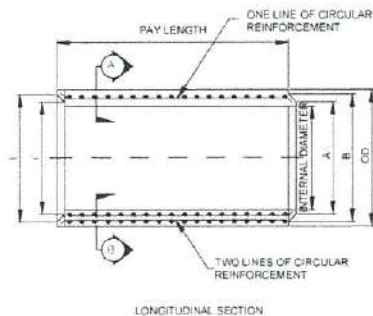
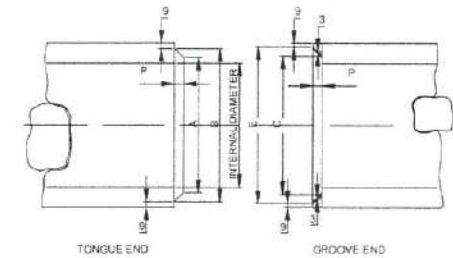
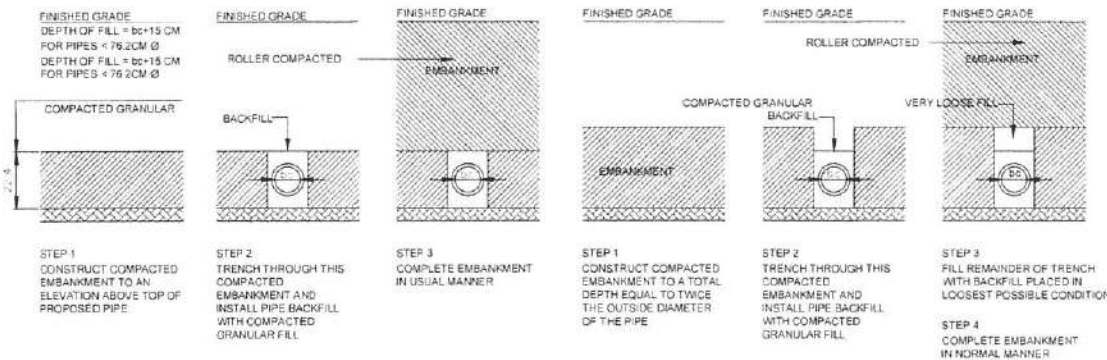


DETAIL OF PIPE COLLAR



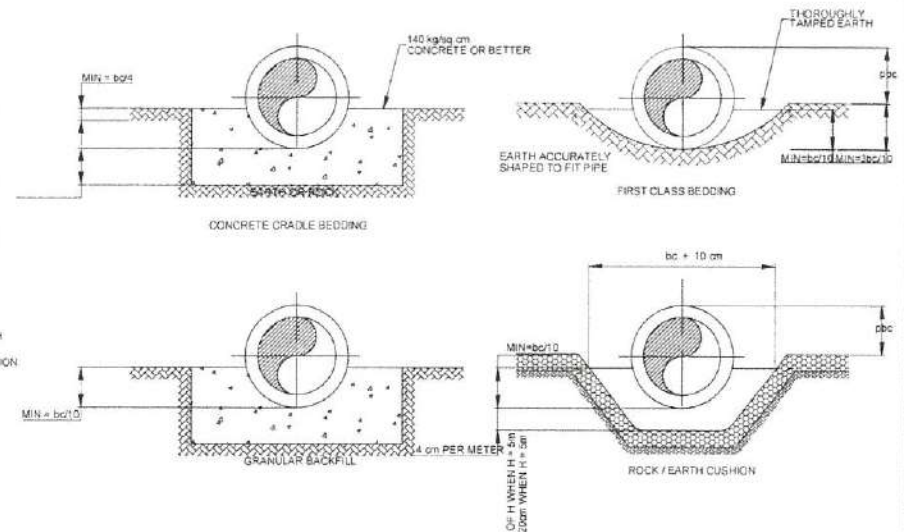
DETAIL OF RCPC ENDS

REINFORCED CONCRETE PIPE CULVERTS



CALIFORNIA METHOD "A"

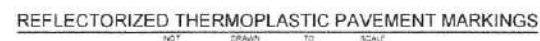
CALIFORNIA METHOD "B"



DESIGN REQUIREMENT OF REINFORCED CONCRETE PIPE CULVERT

SIZE OF PIPE (mm)	WALL THICKNESS (mm)	STANDARD STRENGTH REINFORCED CONCRETE PIPE CULVERTS																EXTRA STRENGTH REINFORCED CONCRETE PIPE CULVERTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
		I.D.	t	A.	B.	C.	K.	P.	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS (mm)	TONGUE (mm)	GROOVE (mm)	DEPTH (mm)	MINIMUM REINFORCEMENT (mm ² / m OF PIPE)	THREE EDGE BEARING METHOD	WALL THICKNESS 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REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII SARANGANI, PALO, LUTIT	PROJECT NAME AND LOCATION	SHEET CONTENTS	PREPARED	REVIEWED	RECOMMENDED	APPROVED	DATE	SHEET NO.
	BPAG - COASTAL ROADS AUGMENT RESILIENCY OF COASTAL COMMUNITIES - CONSTRUCTION OF COASTAL ROAD, BARANGAY GARDEN, Poblacion, ARTECHE, EASTERN SAMAR EASTERN SAMAR LD	DETAILS FOR STANDARD RCPC	JAKE M. S. HERNANDEZ NOVEMBER 1, 2018	FELIX R. SACUS CHIEF ENGINEER AND DESIGN DIVISION DATE	AGNES M. BARRONDA CHIEF ENGINEER AND DESIGN DIVISION DATE	MA. MARGARITA C. JULIA, D.M. ASST. CHIEF ENGINEER DATE	EDGAR B. TABACON, CESO III CHIEF ENGINEER DATE	29/24 42



43 **PAVEMENT MARKING APPLICATION OF NO PASSING ZONES**
(WHERE PASSING MUST BE PROHIBITED BECAUSE OF HAZARDOUS CONDITIONS)



 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII SARASI, PALO LEYTE	PROJECT NAME AND LOCATION SIPAG - COASTAL ROADS AUGMENT RESILIENCY OF COASTAL COMMUNITIES - CONSTRUCTION OF COASTAL ROADS BARANGAY GABRIEL Poblacion, Arteche, Eastern Samar	SHEET CONTENTS STANDARD PAYMENT MARKINGS	PREPARED  JARK CHARLES S. HECHANOVA CHIEF PLANNER AND DESIGN DIVISION (ENGINEER I-BBB)	REVIEWED  FELIX R. BICUS CHIEF HIGHWAY DESIGN SECTION	 AGNES M. BARONDA CHIEF PLANNING AND DESIGN DIVISION	RECOMMENDED  MA. MARGARET A. LUNA, D.M. ASSISTANT REGIONAL DIRECTOR	APPROVED  EDGAR B. ABACAN, DESO IV REGIONAL DIRECTOR	SET NO. A	SHEET NO. 31
	EASTERN SAMAR LD								31 24

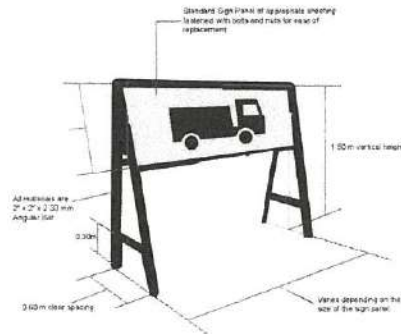
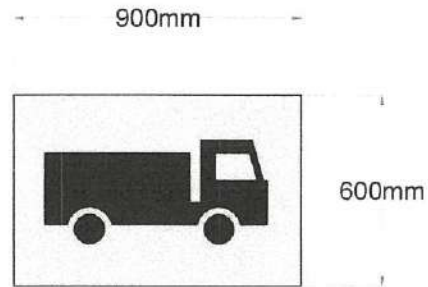


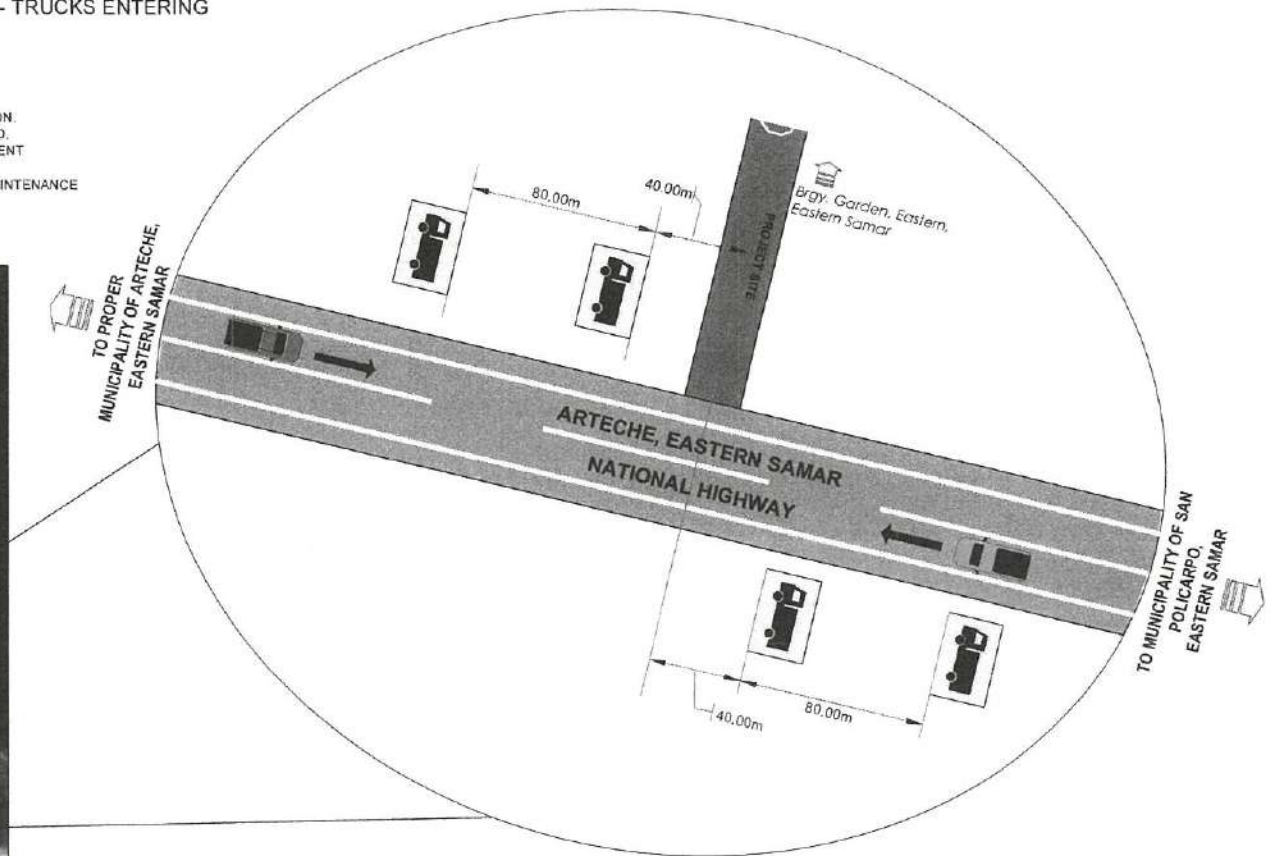
Figure 2. Details of the two-sided sign frame



T2-25 - TRUCKS ENTERING

NOTE:

- ADJUSTMENT OF TRAFFIC MANAGEMENT PLAN SHALL BE MADE DURING PROJECT IMPLEMENTATION.
- ADDITIONAL ROADWORKS SIGNAGES SHALL BE IDENTIFIED BY THE PROJECT ENGINEER ASSIGNED.
- TRAFFIC MANAGEMENT AND SAFETY & HEALTH REQUIREMENTS SHALL CONFORM WITH DEPARTMENT ORDER NO. 12, SERIES OF 2018, GUIDELINES FOR THE PREPARATION OF COST ESTIMATES FOR TRAFFIC MANAGEMENT AND SAFETY & HEALTH REQUIREMENTS FOR THE CONSTRUCTION AND MAINTENANCE OF ROADS, BRIDGES AND SAFETY & HEALTH REQUIREMENTS FOR SCHOOL BUILDINGS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO VIII
BARAS PAULO, LAYTE

PROJECT NAME AND LOCATION
SIPAG - COASTAL ROADS AUGMENT RESILIENCY
OF COASTAL COMMUNITIES - CONSTRUCTION OF
COASTAL ROAD, BARANGAY GARDEN,
POBLACION, ARTECHE, EASTERN SAMAR
EASTERN SAMAR LD

SHEET CONTENTS
TRAFFIC MANAGEMENT PLAN

PREPARED
JOEL PAUL C. AVORQUE
ENGINEER II

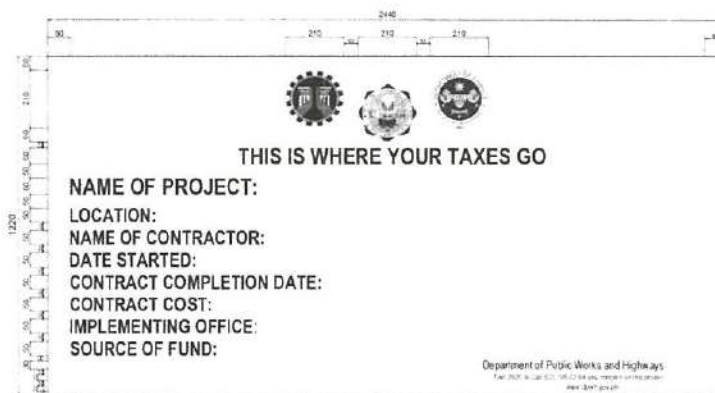
REVIEWED
FELIX R. LACAS
CHIEF HIGHWAY DESIGN SECTION
DATE

SUBMITTED
AGNES M. BARONDA
CHIEF PLANNING AND DESIGN DIVISION
DATE

RECOMMENDED
MA. MARGARITA C. JUNIA, D.M.
ASSISTANT REGIONAL DIRECTOR
DATE

APPROVED
EDGAR R. TABACON/CESO
REGIONAL DIRECTOR
DATE

SHEET NO
A
32 33
SHEET NO
32 42



2440

210 210 210

1200

THIS IS WHERE YOUR TAXES GO

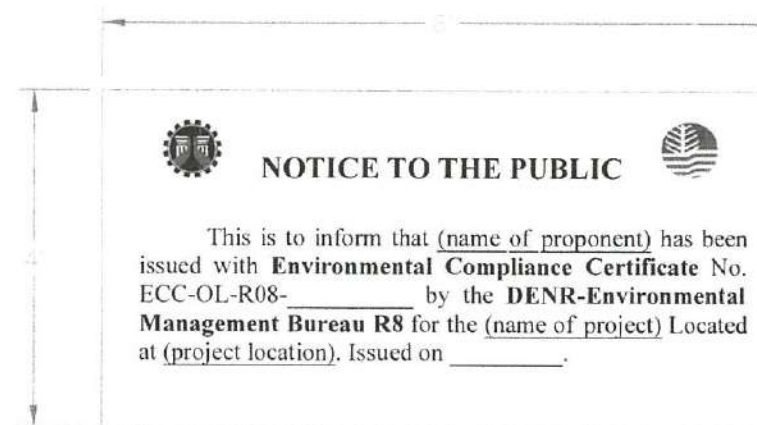
NAME OF PROJECT:
 LOCATION:
 NAME OF CONTRACTOR:
 DATE STARTED:
 CONTRACT COMPLETION DATE:
 CONTRACT COST:
 IMPLEMENTING OFFICE:
 SOURCE OF FUND:

Department of Public Works and Highways
 (DPWH Logo)

DPWH STANDARD PROJECT BILLBOARD

NOTE:

INSTALLATION OF BILLBOARD SHALL CONFORM WITH
 DEPARTMENT ORDER NO. 37, SERIES OF 2010.
 INSTALLATION OF REVISED PROJECT BILLBOARDS



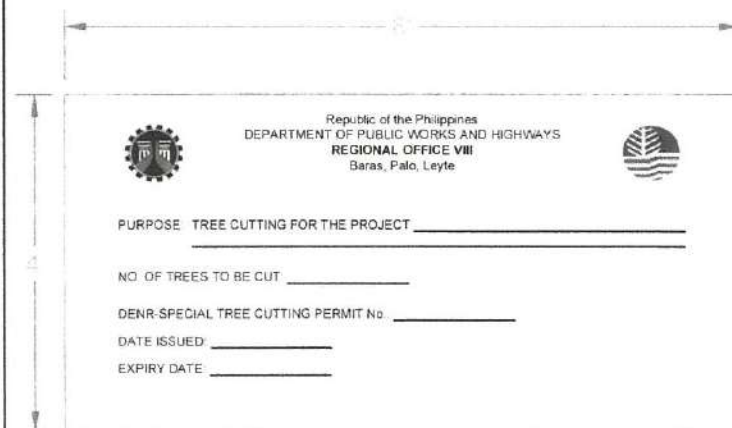
2440

1200

NOTICE TO THE PUBLIC

This is to inform that (name of proponent) has been
 issued with **Environmental Compliance Certificate** No.
 ECC-OL-R08-_____ by the **DENR-Environmental**
Management Bureau R8 for the (name of project) Located
 at (project location). Issued on _____.

ECC BILLBOARD (4' x 8')



Republic of the Philippines
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 REGIONAL OFFICE VIII
 Baras, Palo, Leyte

PURPOSE TREE CUTTING FOR THE PROJECT _____

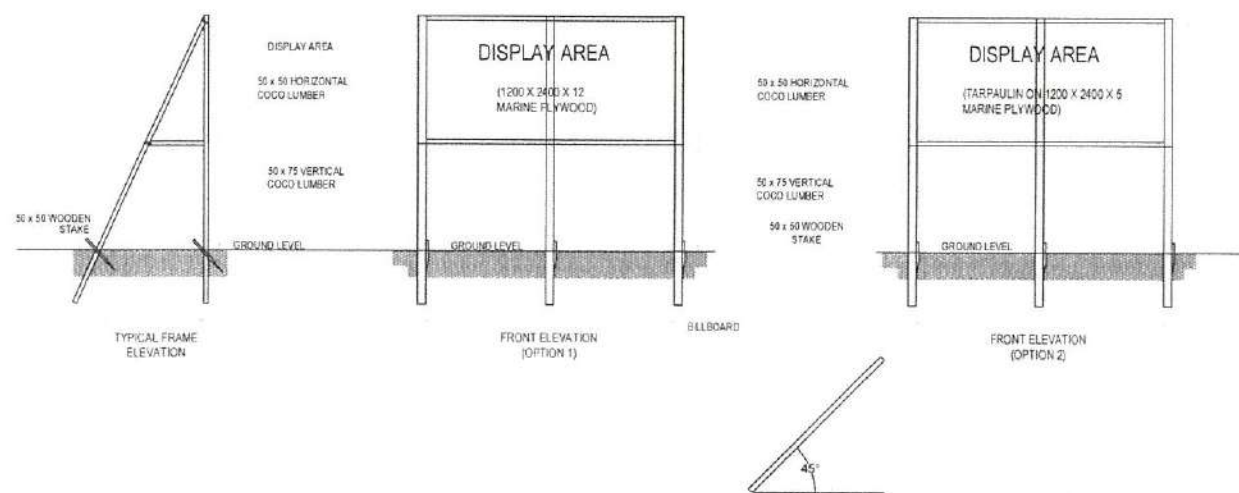
NO. OF TREES TO BE CUT _____

DENR-SPECIAL TREE CUTTING PERMIT No. _____

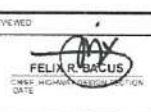
DATE ISSUED: _____

EXPIRY DATE: _____

SPECIAL TREE CUTTING PERMIT BILLBOARD (4' x 8')



BILLBOARD FRAME
 (NOT TO SCALE. ALL DIMENSIONS ARE IN MILLIMETERS)

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII BARAS, PALO, LEYTE	PROJECT NAME AND LOCATION SPAG - COASTAL ROADS AUGMENT RESILIENCY OF COASTAL COMMUNITIES - CONSTRUCTION OF COASTAL ROAD, BARANGAY GARDEN, POBLACION, ARTECHE, EASTERN SAMAR EASTERN SAMAR LD	SHEET CONTENTS PROJECT BILLBOARD/SIGNBOARD	PREPARED  JAKE CHARLES S. HECHANOVA ENGINEER'S SIGN	REVIEWED  FELIX R. BACUS CHIEF HIGHWAY DESIGN SECTION DATE	RECOMMENDED  AGNES M. BARONDA CHIEF PLANNING AND DESIGN DIVISION DATE	MA. MARGARITA C. JUNIA, D.M. ASSISTANT REGIONAL DIRECTOR DATE	APPROVED  EDGAR B. TABACON, CESO IV REGIONAL DIRECTOR	SHEET NO. 33 SHEET NO. 42
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[illegible]

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII BARAS PAJO, LEYTE	PROJECT NAME AND LOCATION	SHEET CONTENTS	PREPARED	REVIEWED	RECOMMENDED	APPROVED	SET NO.	SHEET NO.
	SIPAG - COASTAL ROAD'S AUGMENT RESILIENCY OF COASTAL COMMUNITIES - CONSTRUCTION OF COASTAL ROAD, BARANGAY GARDEN, Poblacion, ARTECHE, EASTERN SAMAR EASTERN SAMAR I.D	PROJECT BILLBOARD/SIGNBOARD	<i>[Signature]</i> JAKE CHARLES S. HICHAYOVA DESIGNER/DRIVER	<i>[Signature]</i> FELIX M. BACUS CHIEF HIGHWAY DESIGN SECTION DATE: 10/10/2023	<i>[Signature]</i> AGNES M. BARONDA CHIEF PLANNING AND DESIGN DIVISION DATE: 10/10/2023	<i>[Signature]</i> MA. MARGARITA C. JUNIA, D.M. ASSISTANT REGIONAL DIRECTOR DATE: 10/10/2023	<i>[Signature]</i> EDGAR B. TAYACON, CESO V REGIONAL DIRECTOR DATE: 10/10/2023	A 34 24

PLAN
SCALE 1:1250



ITEM NO.	DESCRIPTION	UNIT	QUANTITY
100(3)a1	Individual Removal of Trees (Small 150 - 300 mm dia.)	Each	14.00

PREMIUM TREE 5.00
 COCONUT 9.00

BEG. OF PROJECT
 STA. 0+000.00
 N:1,357,030.080 E:758,207.539

END OF PROJECT
 STA. 0+234.00
 N:1,357,230.6054 E:758,136.4475

PI NO	Station PI	COORDINATES		Angle of Intersection (I)	Radius (R)	Length of curve (Lc)	External distance (E)	ELEMENTS OF CURVE				Station PT	Degree of Curve (D)	Design speed (V)	S	W
		NORTHINGS	EASTINGS					Tangent distance (T)	Station PC	Station PT	Degree of Curve (D)	Design speed (V)				
6	0+283.920	1,357,106.725	758,230.854	62° 20' 06"	49.578	53.945	8.379	30.003	0+250.000	0+103.945	33° 06' 29"	30	0.011	1.500		
6	0+209.920	1,357,201.573	758,133.340	53° 53' 17"	82.000	71.053	8.593	38.062	0+171.858	0+242.911	14° 19' 20"	30	0.050	1.200		



REPUBLIC OF THE PHILIPPINES
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 REGIONAL OFFICE NO. VIII
 BARANGAL, LAYTE

PROJECT NAME AND LOCATION
 SIPAG - COASTAL ROADS AUGMENT RESILIENCY
 OF COASTAL COMMUNITIES - CONSTRUCTION OF
 COASTAL ROAD, BARANGAY GARDEN, POBLACION,
 ARTECHE, EASTERN SAMAR
 EASTERN SAMAR LO

SHEET CONTENTS
 PLAN

PREPARED

 JAKE CHARLES S. HECHANOVA
 (REGISTERED)

REVIEWED

 FELIX R. BACUS
 (REGISTERED PROFESSIONAL DESIGNER)

SUPERVISOR

 AGNES M. BARONDA
 CHIEF PLANNING AND DESIGN DIVISION

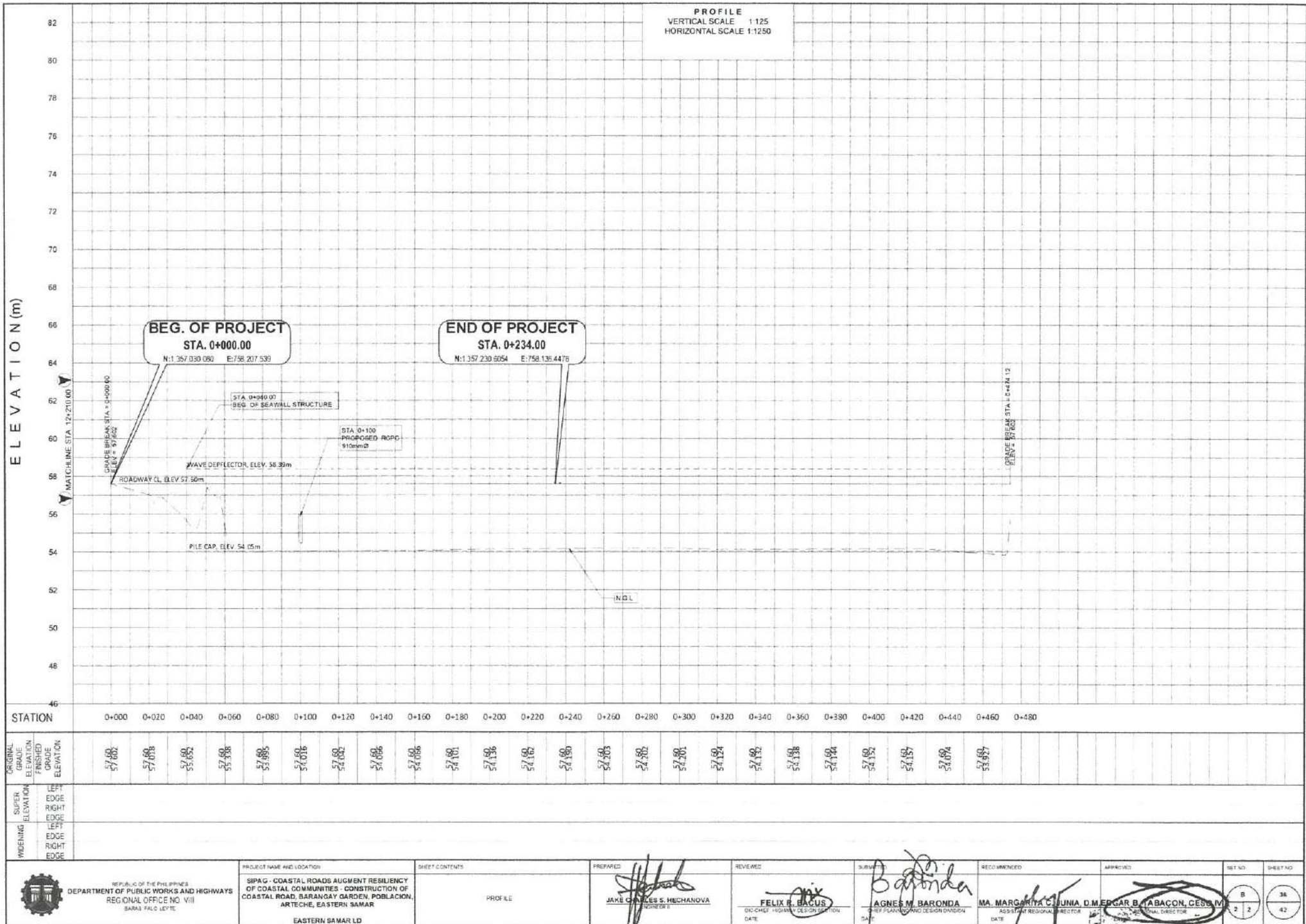
RECOMMENDED

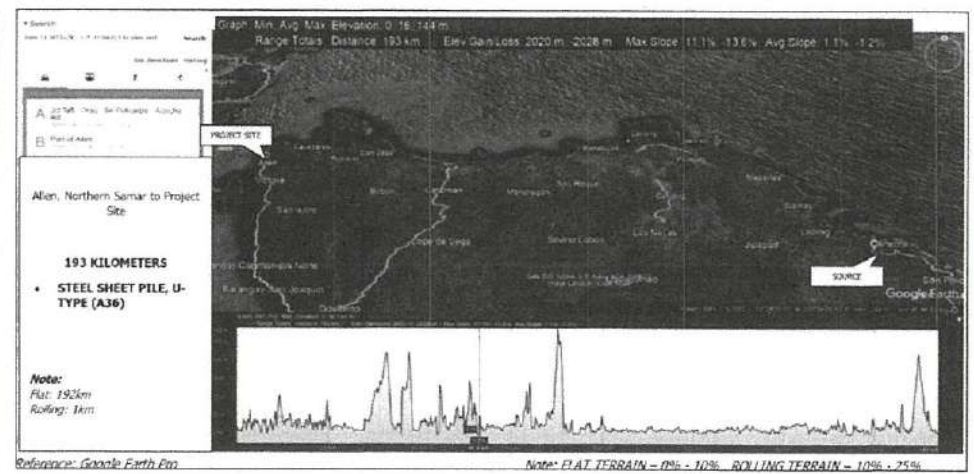
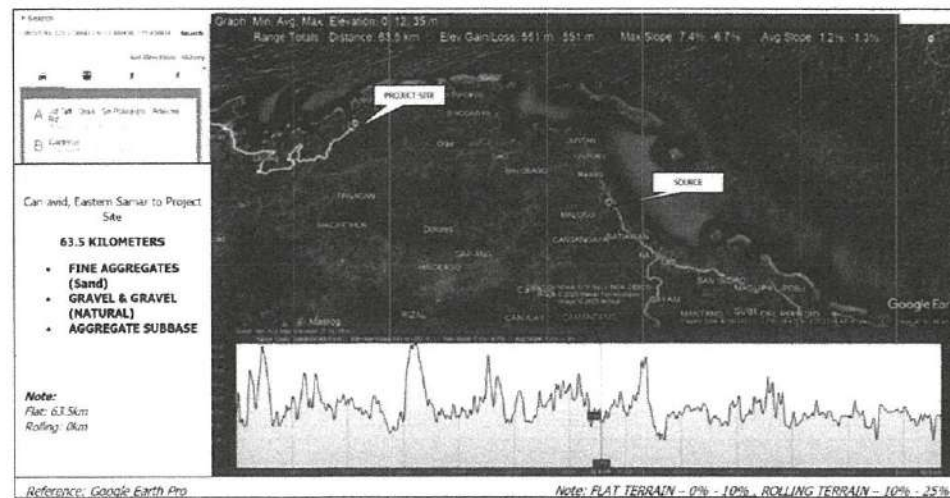
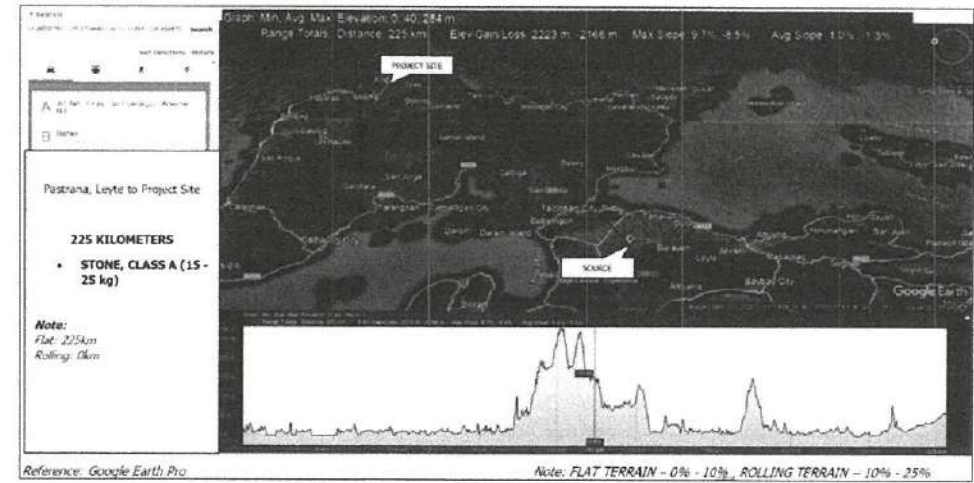
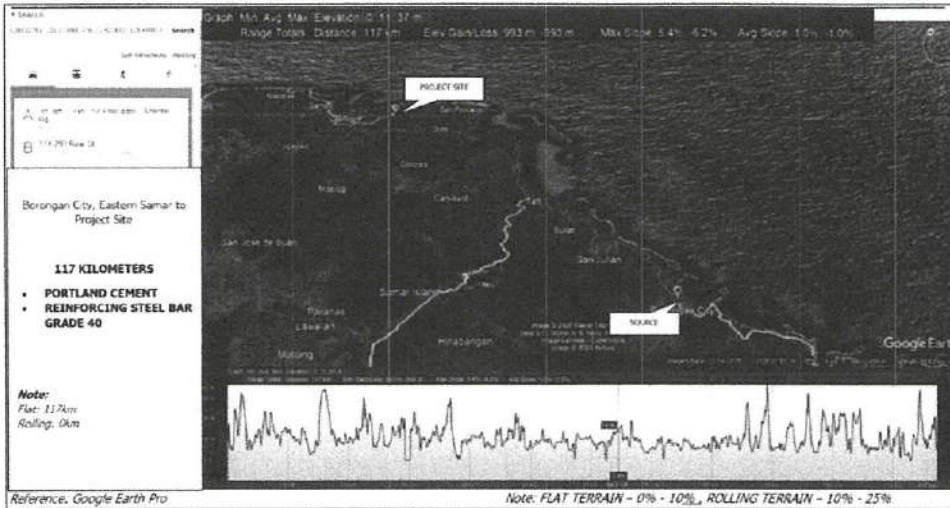
 MA. MARGARITA G. JUNIA
 ASSISTANT REGIONAL DIRECTOR

APPROVED

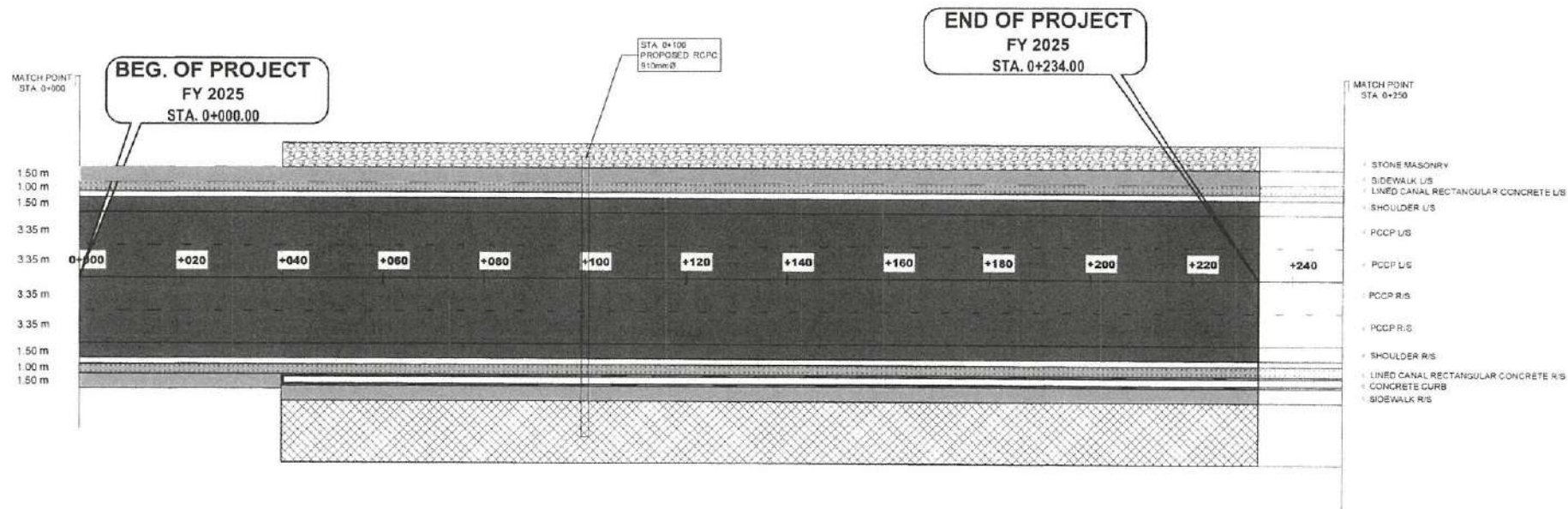
 MA. MARGARITA G. JUNIA
 ASSISTANT REGIONAL DIRECTOR

SET NO. 1
 SHEET NO. 42



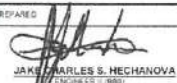
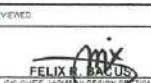
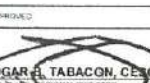


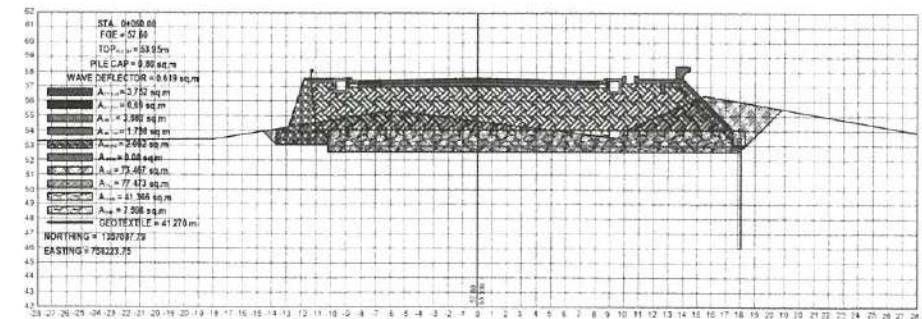
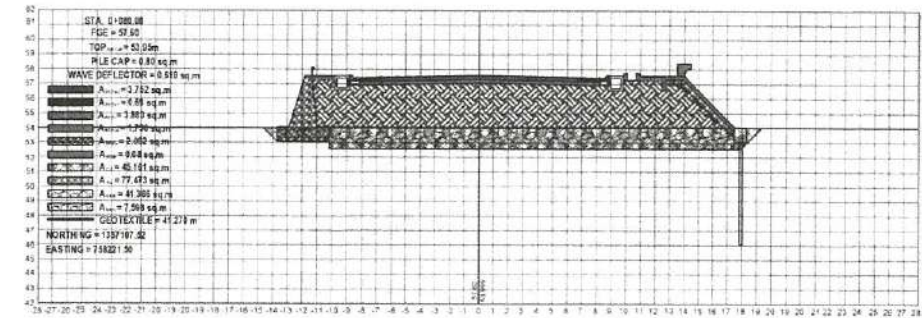
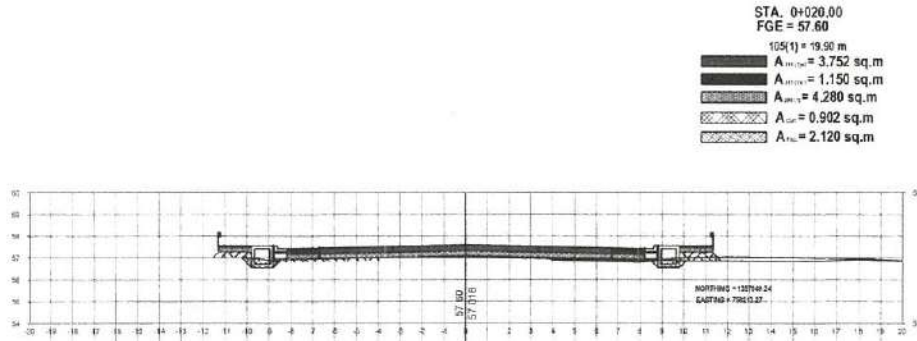
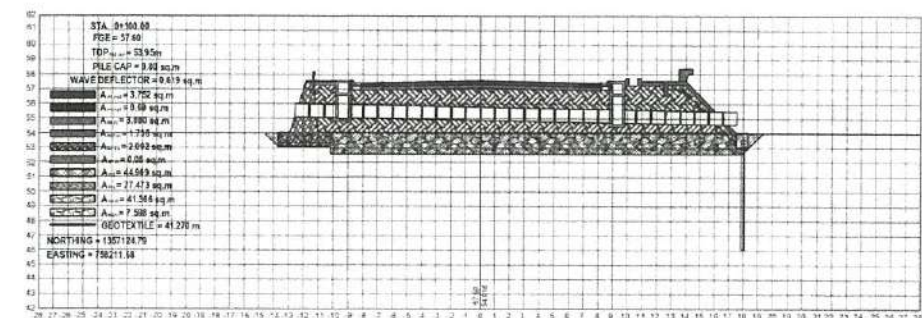
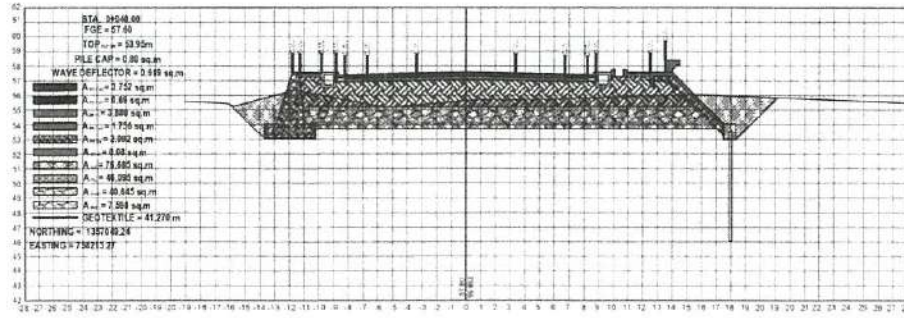
	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII BARAS PAID LEYTE	PROJECT NAME AND LOCATION SPAO - COASTAL ROADS AUGMENT RESILIENCY OF COASTAL COMMUNITIES CONSTRUCTION OF COASTAL ROAD, BARANGAY GARDEN, Poblacion, ARTECHE, EASTERN SAMAR EASTERN SAMAR LD	SHEET CONTENTS SOURCE MAP	REVIEWED JAKE CHARLES S. HEDRANOVA CHIEF ENGINEER	REVIEWED FELIX R. JACUS CHIEF HIGHWAYS DIVISION	SUBMITTED AGNES M. BARONGA CHIEF PLANNING AND DESIGN DIVISION	RECOMMENDED MA. MARGARETHA G. JUNIA, D.M. ASSISTANT REGIONAL DIRECTOR	APPROVED EDGAR R. TABACON, CESAO IV REGIONAL DIRECTOR	SET NO. C 1	SHEET NO. 37 42
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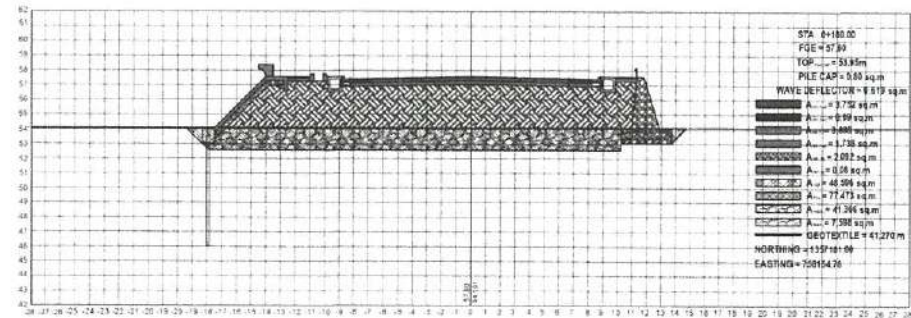
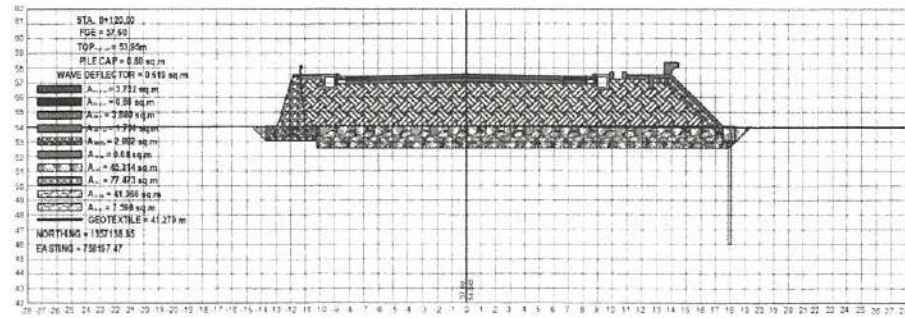
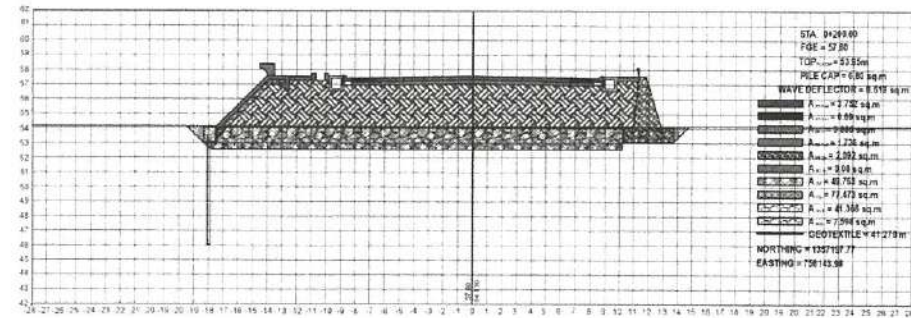
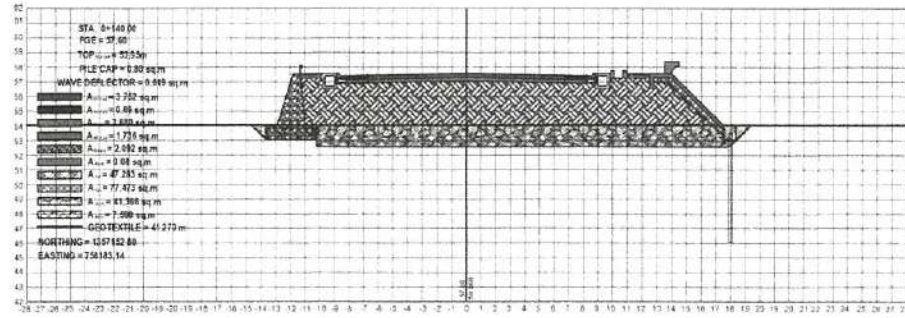
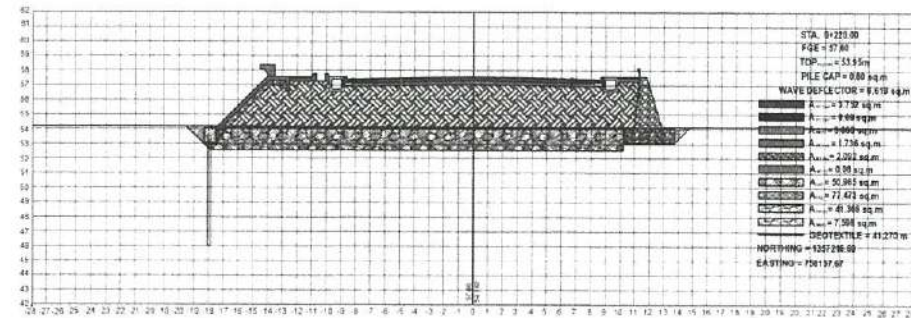
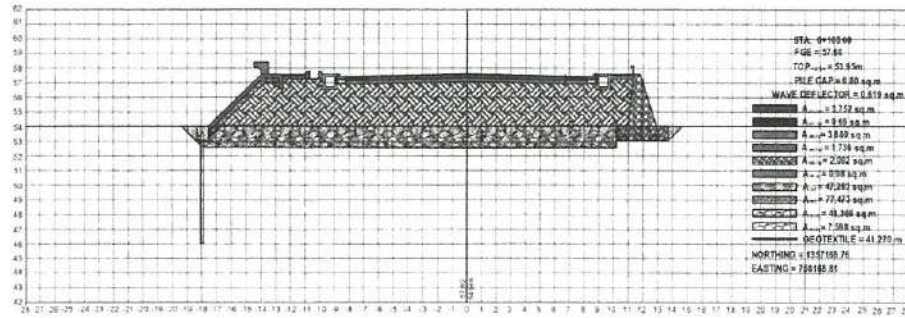
LEGEND

-  PCCP
-  SIDEWALK
-  LINED CANAL RECTANGULAR CONCRETE
-  STONE MASONRY
-  SEAWALL REVETMENT STRUCTURE
-  RCPC

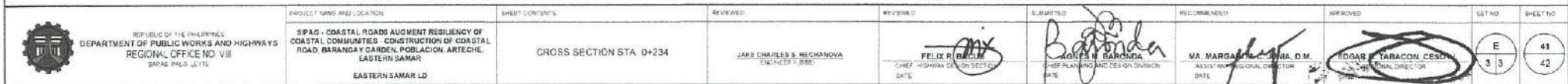
 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII SARAS PAJO, LEYTE	PROJECT NAME AND LOCATION: SIPAG - COASTAL ROADS AUGMENT RESILIENCY OF COASTAL COMMUNITIES - CONSTRUCTION OF COASTAL ROAD, BARANGAY GARDEN, POBLACION, ARTECHE, EASTERN SAMAR EASTERN SAMAR LG	SHEET CONTENTS: STRAIGHT LINE DIAGRAM	PREPARED:  JAMES CHARLES S. HECHANOVA ENGINEER II (R00)	REVIEWED:  FELIX S. BALUS C/C CHIEF HIGHWAY DESIGN SECTION DATE: 1/1/25	SUBMITTED:  AGNES M. BARONDA CHIEF PLANNING AND DESIGN DIVISION DATE: 1/1/25	RECOMMENDED:  MA. MARGARITA C. JUNA, D. EDGAR R. TABACON, CESO II ASSISTANT REGIONAL DIRECTOR DATE: 1/1/25	APPROVED:  MA. MARGARITA C. JUNA, D. EDGAR R. TABACON, CESO II REGIONAL DIRECTOR DATE: 1/1/25	SET NO. 1 SHEET NO. 38
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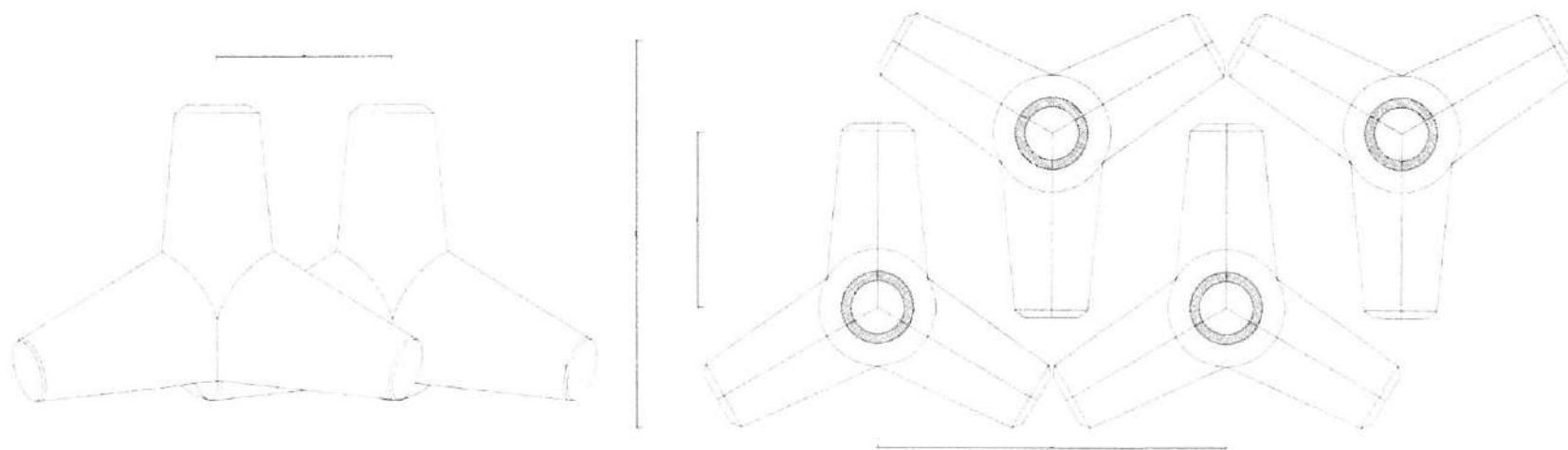
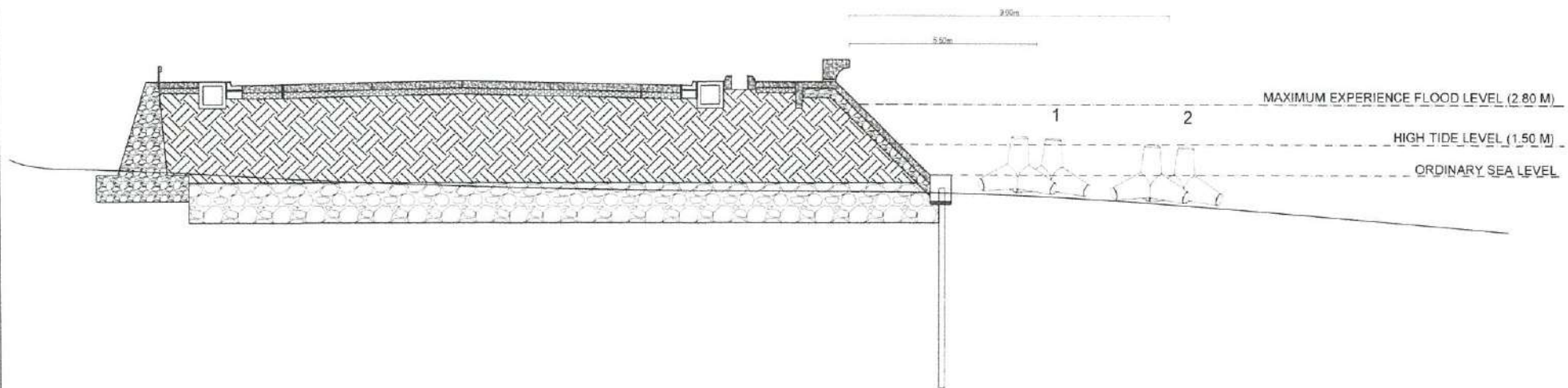


 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII BANGALLO, CEBU	PROJECT NAME AND LOCATION SPAG - COASTAL ROADS AUGMENT RESILIENCY OF COASTAL COMMUNITIES - CONSTRUCTION OF COASTAL ROAD, BAKANGAY GARDEN, POBLACION, ARTECHE, EASTERN SAMAR	SHEET CONTENTS CROSS SECTION STA. 0+000 - 0+100	REVIEWED JANE S. S. S. MECHANOWA CHECKER	REVIEWED FELIX S. BACUS CHECK PLANNING AND DESIGN DIVISION	SUBMITTED ROSE M. BARONDA CHECK PLANNING AND DESIGN DIVISION	RECOMMENDED MA. MARGARITA C. JUNIA, D.M. ASSISTANT REGIONAL DIRECTOR	APPROVED ROGAR B. SABACON, CESO IV REGIONAL DIRECTOR	SHEET NO. 39 SHEET NO. 42
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	PROJECT NAME AND LOCATION SIPAG - COASTAL ROADS AUGMENT RESILIENCY OF COASTAL COMMUNITIES - CONSTRUCTION OF COASTAL ROAD D. BARRAGAY GARDEN, Poblacion, ARTILOQUE, EASTERN SAMAR	SHEET CONTENTS CROSS SECTION STA. 0+120 - 0+220	REVIEWED JANETTE S. DE GUANOVA NUMBER 8 8888	REVIEWED FELIX R. BACUS CHIEF HIGHWAY DESIGN SECTION DATE	SUBMITTED AGNES M. BARONIA CHIEF PLANNING AND DESIGN DIVISION DATE	RECOMMENDED MA. MARGARITA C. JUNA, D.M. ASSISTANT REGIONAL DIRECTOR DATE	APPROVED EDGAR TABACON, CESO IV REGIONAL DIRECTOR DATE	SHEET NO. E 23 SHEET NO. 40 42
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RELOCATION OF TETRAPODS PLAN LAYOUT (SINGLE LAYER)

NOT TO SCALE

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. VIII DANAO, SORSOGON CITY	PROJECT NAME AND LOCATION SIPAG - COASTAL ROADS AUGMENT RESILIENCY OF COASTAL COMMUNITIES - CONSTRUCTION OF COASTAL ROAD, BARANGAY GARDEN, POBLACION, ARTECHE, EASTERN SAMAR EASTERN SAMAR LD	SHEET CONTENTS RELOCATION OF TETRAPODS	PREPARED JAMES CHARLES S. MECHANOSA (ENGINEER II - 938)	REVIEWED FELIX R. [Signature] CHIEF HIGHWAY DESIGN SECTION	SUBMITTED [Signature] CHIEF PLANNING AND DESIGN DIVISION	RECOMMENDED MA MARGARET L. [Signature] D.M. CHIEF ASSISTANT REGIONAL DIRECTOR	APPROVED EDGARDO TABACON, JR. D.M. REGIONAL DIRECTOR	SHEET NO. F 1 1 SHEET NO. 42 42
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