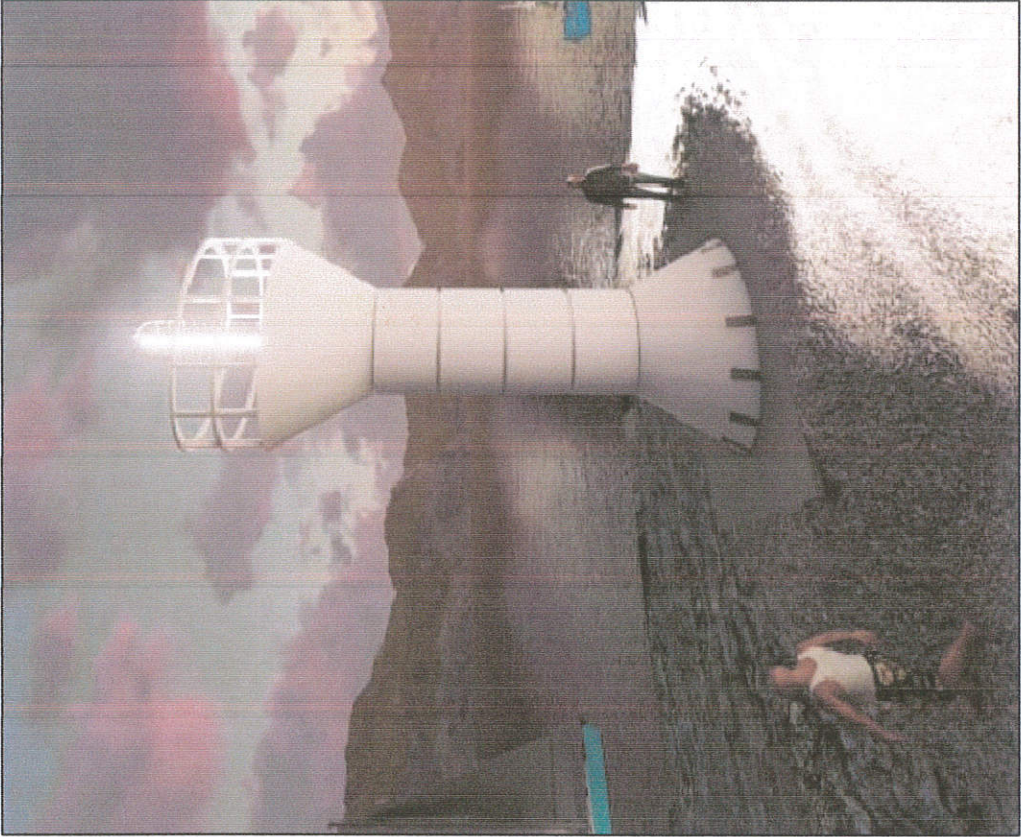
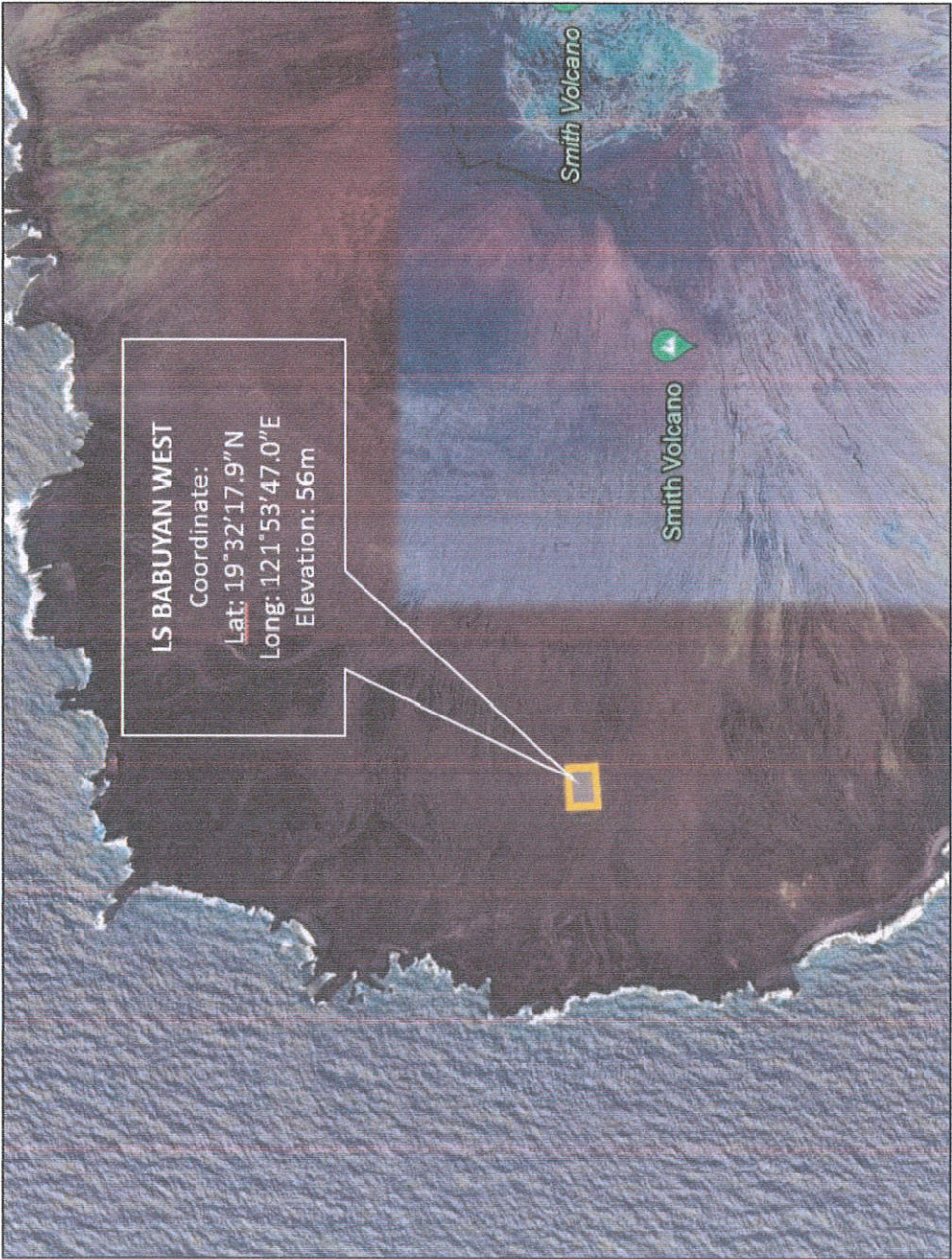




PERSPECTIVE



SITE DEVELOPMENT PLAN



PHILIPPINE COAST GUARD
HEADQUARTERS PHILIPPINE COAST GUARD
110 SOUTH ST. PORT MENENGA, CAGAYAN

COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE

PROJECT TITLE :
CONSTRUCTION OF LIGHT STATION BABUYAN WEST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERMOST ISLANDS OF THE COUNTRY

LOCATION:
DILIGALAN CAGAYAN
PHILIPPINE COAST GUARD

PREPARED BY
CG POB James B. Abboy
POIC CIVIL & STRUCTURAL BRANCH

REVISION
DATE

CHECKED BY:

CG ENS EDGARDO J. CORTEZ
Head, Project Performance and Evaluation

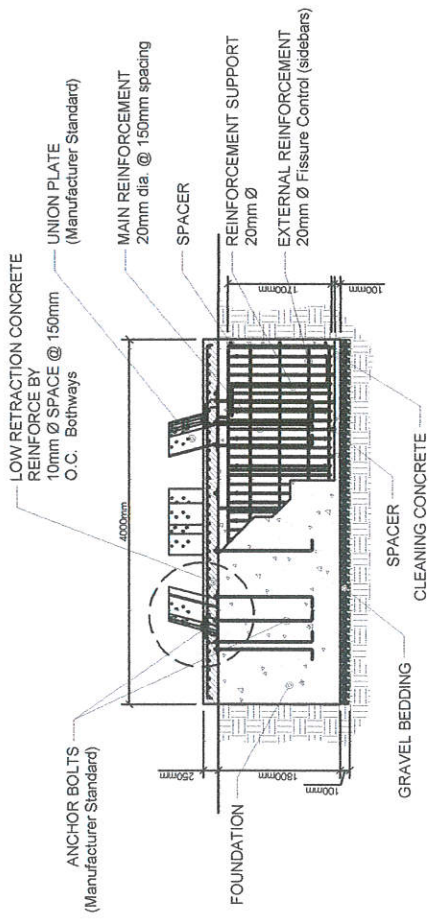
RECOMMENDED BY:

CG CDR KAY GARNET S. GAMALLO
Deputy Commander, CGDS

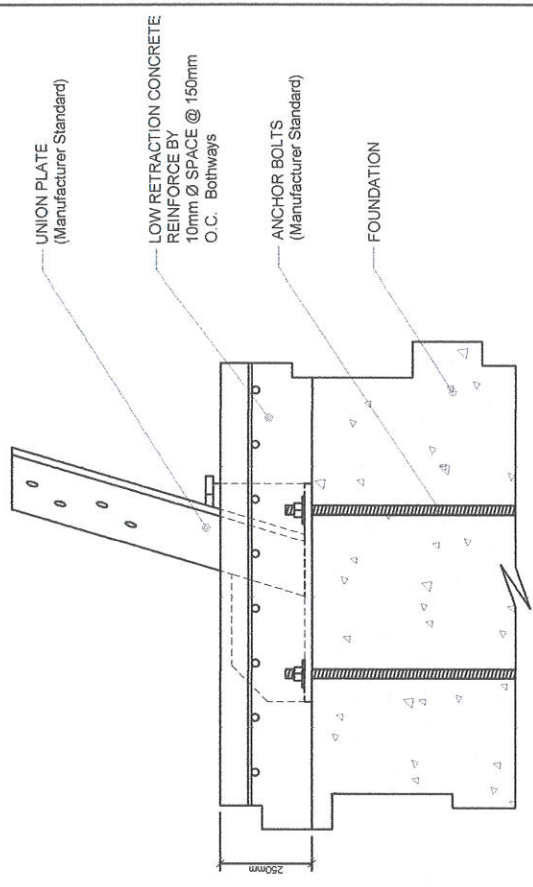
APPROVED BY:

CG CAPT PRUDENCO C. PATRICIO JR. (GSC)
Commander, CGDS

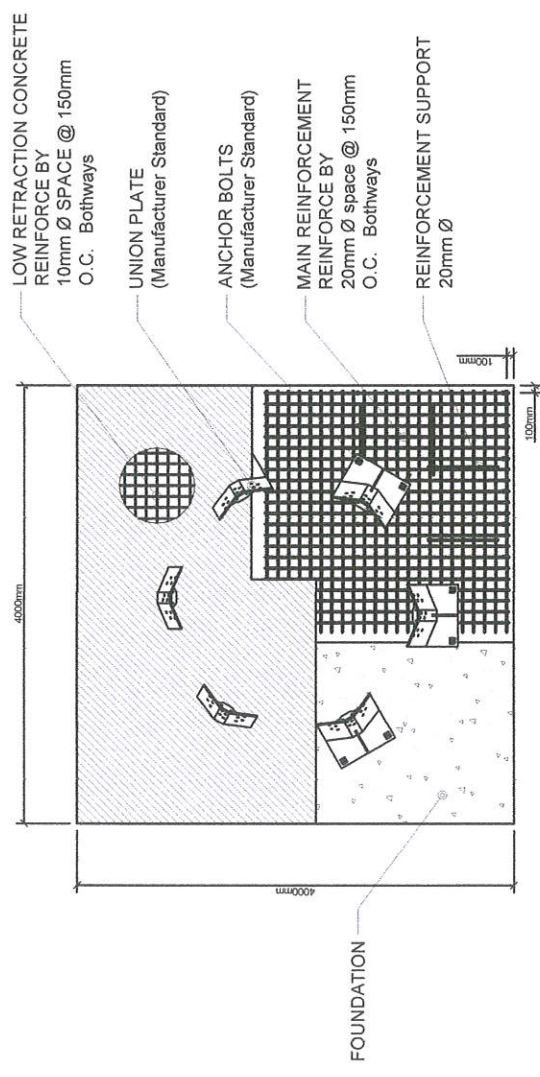
SHEET NO.



FOUNDATION DTL. SECTION
NTS

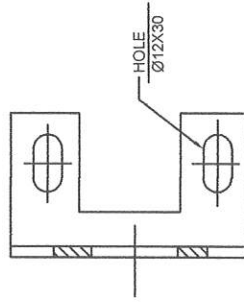
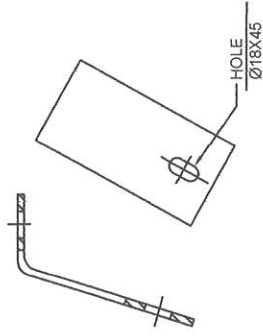
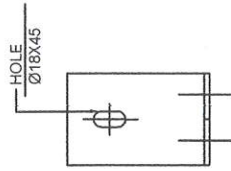
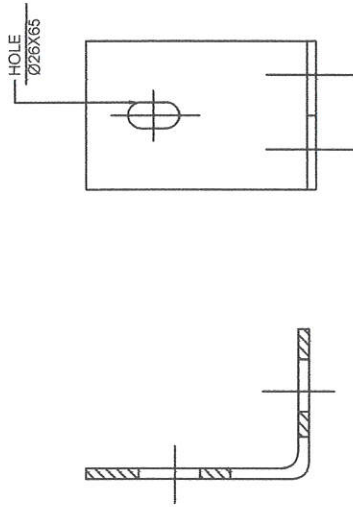


UNION PLATE CONNECTION DTL.
NTS

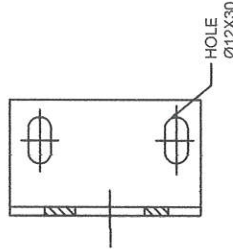


FOUNDATION DETAILS
NTS

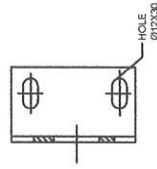
 PHILIPPINE COAST GUARD COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE	PROJECT TITLE : CONSTRUCTION OF LIGHT STATION BABUYAN WEST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION : BRGY. DILANGALAYAN, MAGAYAN, PHILIPPINE COAST GUARD		SHEET NO.
	OWNER : PHILIPPINE COAST GUARD	PREPARED BY : CG PO3 James B. Lobos	APPROVED BY : CG CAPT PRUDENCIO C. PATRICIO JR. (GSC) Commander, CGIDS
REVISION	DATE	RECOMMENDED BY : CG CAPT RAY GARNERIO GAMALLO Deputy Commander, CGIDS	
		CHECKED BY : CG ENS EDUARDO L. CORTEZ Head, Project Performance and Evaluation	



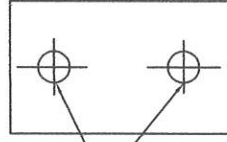
UNION CLAMPS
TYPE A
UNION C-D



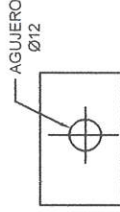
UNION CLAMPS
TYPE B
UNION B-A-B1



UNION CLAMPS
TYPE C
UNION F



UNIORLATES



GRP- STRUCTURAL UNION CLAMPS(A-B-C)



PHILIPPINE COAST GUARD
HEADQUARTERS PHILIPPINE COAST GUARD
1405 SOUTH AVE. PASAY, MANILA

COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE

PROJECT TITLE :
CONSTRUCTION OF LIGHT STATION BABUYAN WEST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY

LOCATION:
BROY, DILAM CALAYAN, CAGAYAN
PHILIPPINE COAST GUARD

OWNER:
PHILIPPINE COAST GUARD

PREPARED BY:
CG PFC James B. Loboy
POIC CIVIL & STRUCTURAL BRANCH

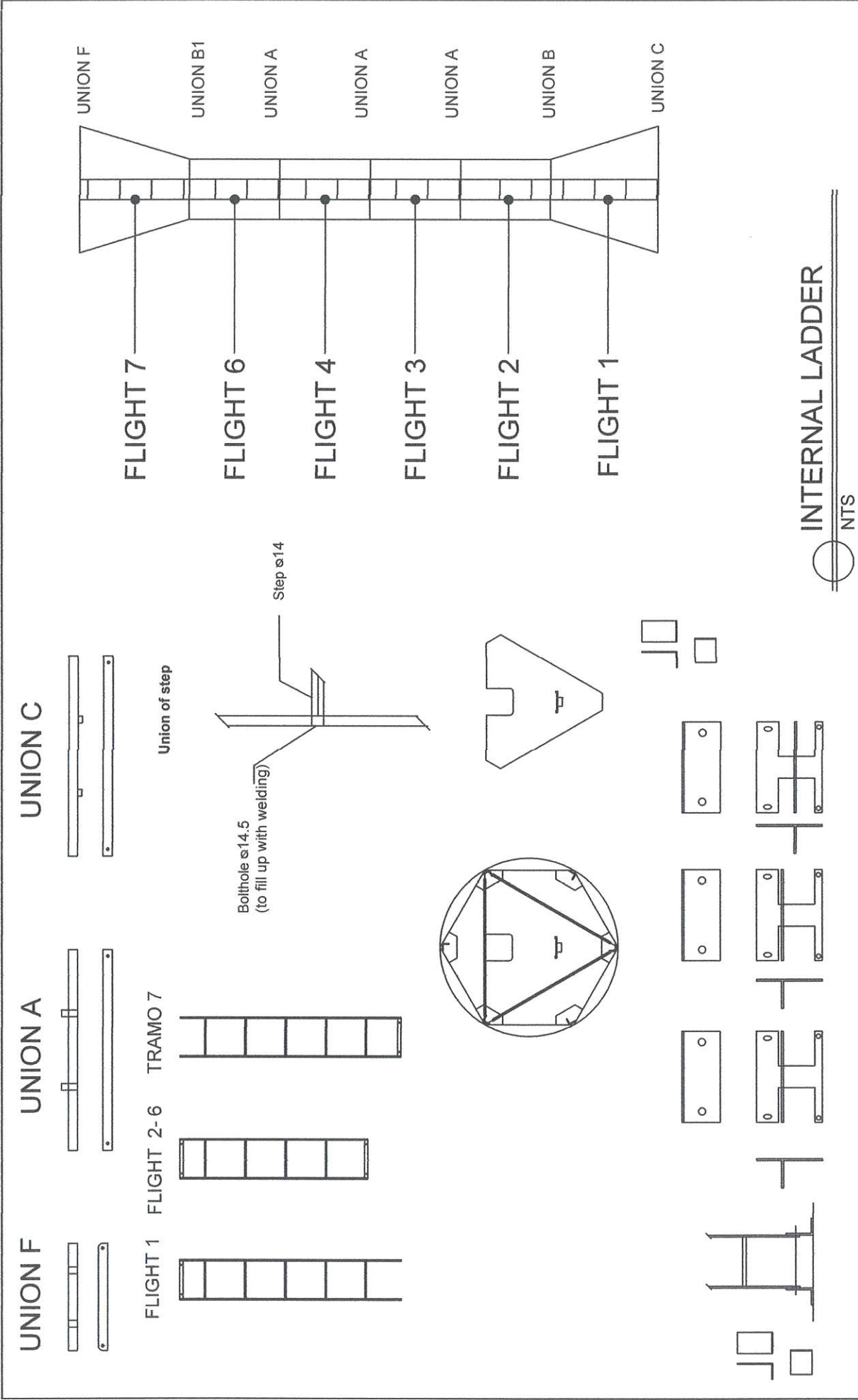
REVISION:
DATE

CHECKED BY:
CG CDR RAYCARIN C. CANALLO
Head, Project Performance and Evaluation

RECOMMENDED BY:
CG CDR RAYCARIN C. CANALLO
Deputy Commander, CGIS

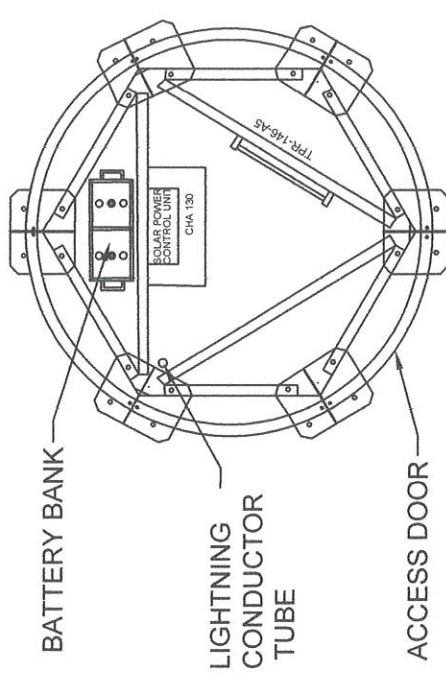
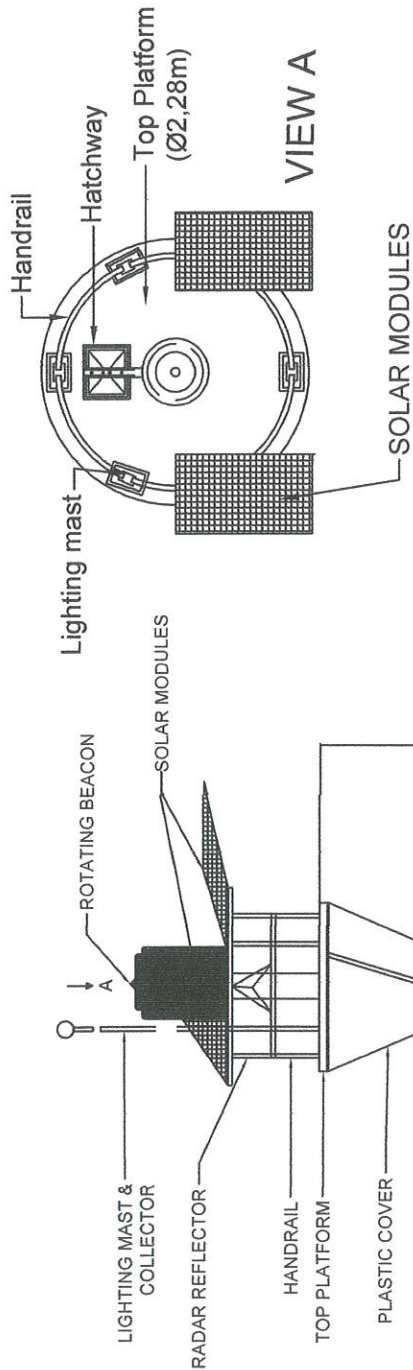
APPROVED BY:
CG CAPT PRUDENCIO C. PATRICIO JR. (GSC)
Commander, CGIS

SHEET NO.

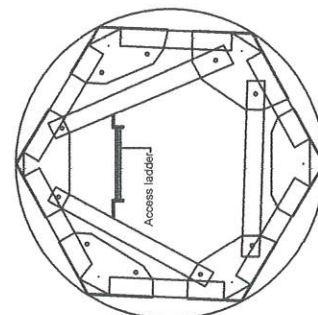


PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 100 SENATE TOWER, MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION BABUYAN WEST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHT HOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BIRY, DILAM, CALAYAN, CAGAYAN OWNER: PHILIPPINE COAST GUARD	SHEET NO.
PREPARED BY CG PO1 JAMES B. LORAN POIC CIVIL & STRUCTURAL BRANCH	REVISION	CHECKED BY CG ENS EDUARDO LOPEZ Head, Property Performance and Evaluation	RECOMMENDED BY CG CD PINK GARNIER COMALLO Deputy Commander, CAGOS	APPROVED BY CG CAPT PRUDENCIO C. MATRICO JR. (SSC) Commander, CAGOS	SIGNATURE

7 Meters LS	
Height	7000mm
Base Diameter	2000mm
Tower Diameter	1200mm
Foundation Bolt PCD	1850mm
Number of Modules / Section	6



SECTION C-C'

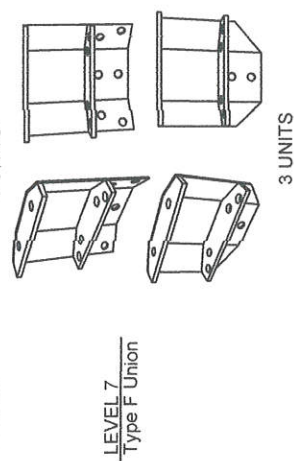
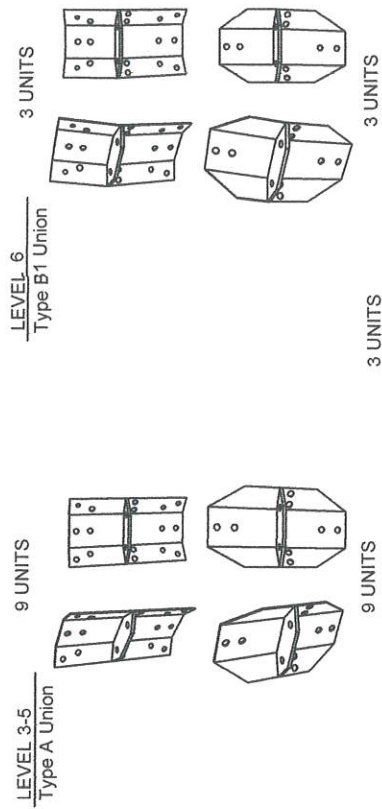
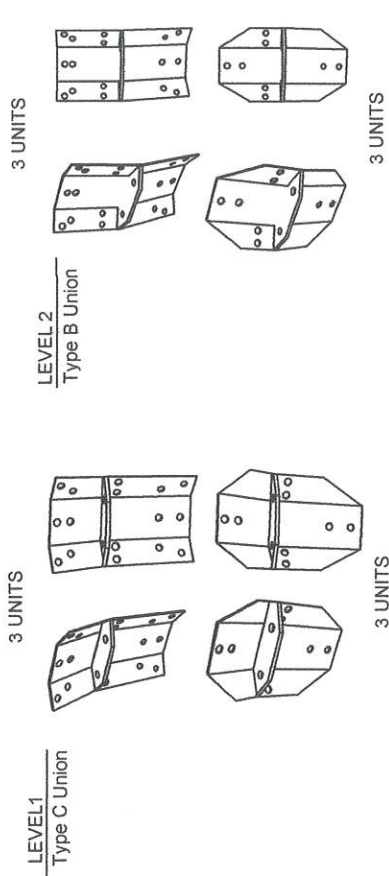


SECTION B-B'

GENERAL DRAWING NTS

PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 152 25TH ST. PORT AREA, MANILA		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION BABUYAN WEST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERMOST ISLANDS OF THE COUNTRY LOCATION : BRGY. DILAM, CALAYAN, CAGAYAN OWNER : PHILIPPINE COAST GUARD		SHEET NO.	
PREPARED BY : CG PO3 JAMES B. LOPEZ	REVISION	CHECKED BY : CG ENS EUGENIO B. JORDAN, Jr. Head, Project Management and Evaluation	RECOMMENDED BY : CG CAPT PRUDENCIO C. PATRICIO, JR. Commander, CGOS	APPROVED BY : <i>[Signature]</i>	CG CAPT PRUDENCIO C. PATRICIO, JR. (GSC) Commander, CGOS

Union clamps Type C	Type F union thickness=8mm	LEVEL 7
Union clamps Type B	Type B1 union thickness=10mm	LEVEL 6
Union clamps Type B	Type A union thickness=8mm	LEVEL 5
Union clamps Type B	Type A union thickness=8mm	LEVEL 4
Union clamps Type B	Type A union thickness=8mm	LEVEL 3
Union clamps Type B	Type B union thickness=10mm	LEVEL 2
Union clamps Type A	Type C union thickness=14mm	LEVEL 1

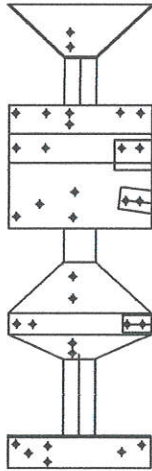


UNION PLATES DETAILS

NTS

PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 100 SEN. ST. PORT AU PRINCE, MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION BABUYAN WEST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY	SHEET NO.
LOCATION: BRGY. DILAM CALAYAN, CAGAYAN PHILIPPINE COAST GUARD		PREPARED BY: CG P. JAMES B. LOPEZ POIC CIVIL & STRUCTURAL BRANCH		CHECKED BY: 	APPROVED BY:
REVISION:		DATE:		RECOMMENDED BY: 	CG CAPT. PRUDENCIO C. PATRICIO JR. (SSC) Commander, CGIDS

UNION A

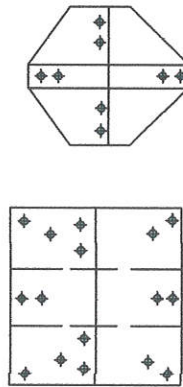
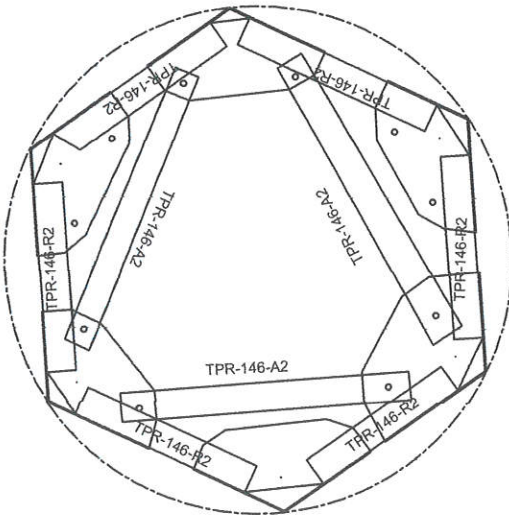
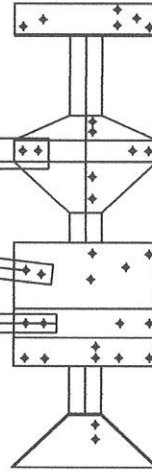


TPR-146-M2

TPR-146-D2

TPR-146-M2

UNION A

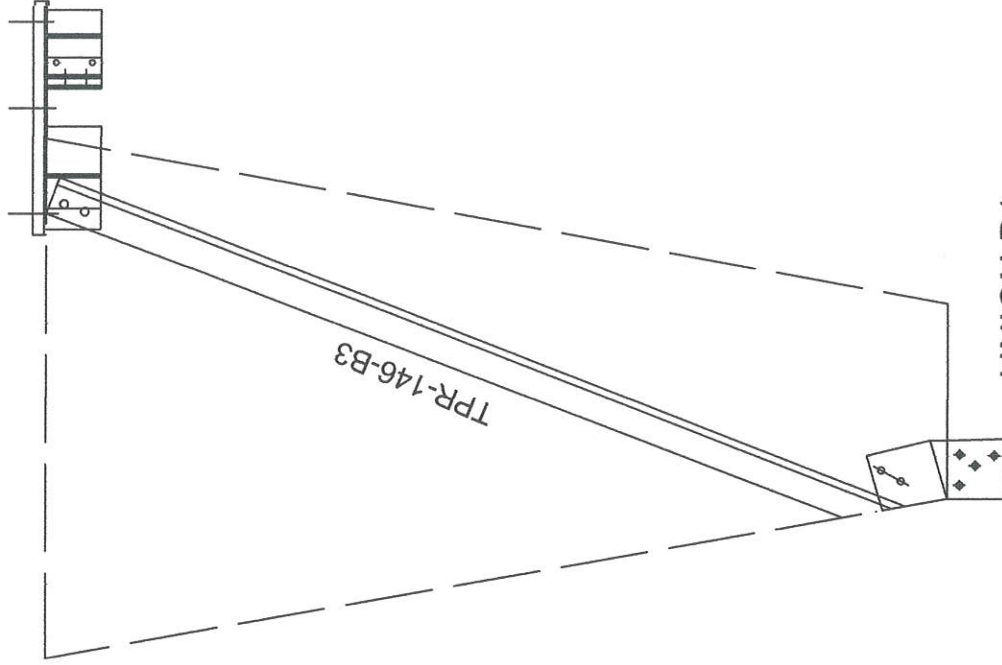


UNION A

CENTRAL MODULES

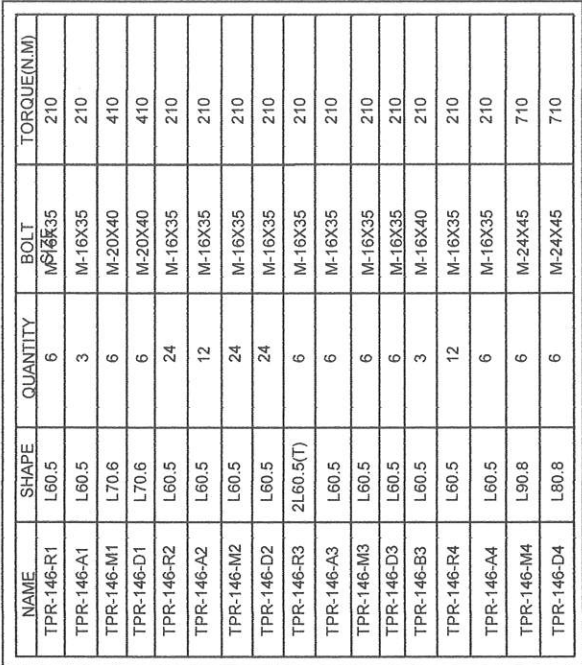
TPR-146-B3

UNION B1



TOP PLATFORM
CENTRAL SUPPORT

 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 138 25TH ST. PORT AREA MANILA		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION BABUYAN WEST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BRGY. DILAM CALAYAN/CAGAYAN OWNER: PHILIPPINE COAST GUARD		SHEET NO.
PREPARED BY: <i>[Signature]</i> CG P.O. James B. Lopez POIC CIVIL & STRUCTURAL BRANCH	CHECKED BY: <i>[Signature]</i> CG ENS EDUARDO J. CORRAZ Head, Project Performance and Evaluation	RECOMMENDED BY: <i>[Signature]</i> CG CD RAY GARNETT G. GAMBALLO Deputy Commander, CGIS	APPROVED BY: <i>[Signature]</i> CG CAPT PRUDENCIO C. PATRICIO JR. (SSC) Commander, CGIS	
REVISION	DATE			



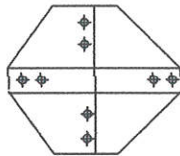
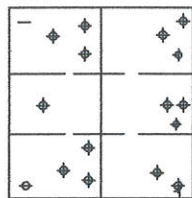
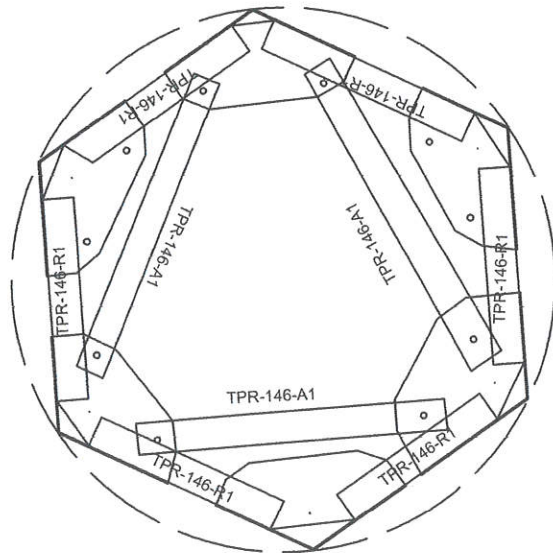
BARS DETAILS

 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 135-25TH ST. PORT AREA, MANILA COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE	PROJECT TITLE : CONSTRUCTION OF LIGHT STATION BABUYAN WEST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY		SHEET NO.		
	LOCATION: BRGY. DILAM, CALAYAN, CAGAYAN PHILIPPINE COAST GUARD				
	PREPARED BY CG PO James B. Lito POIC CIVIL & STRUCTURAL BRANCH	CHECKED BY: <i>[Signature]</i> CG ENS EDGARDO J. COMEJAN Head, Project Management and Evaluation	RECOMMENDED BY: <i>[Signature]</i> CG CD RAY GARNET OSANILLO Deputy Administration & Logistics	APPROVED BY: <i>[Signature]</i> CG CAPT PRUDENCIO C. PATRICIO JR. (SSC) Commanding Officer	
	REVISION	DATE			

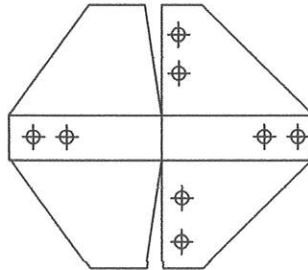
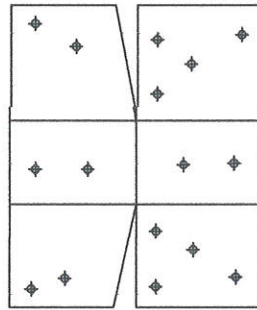
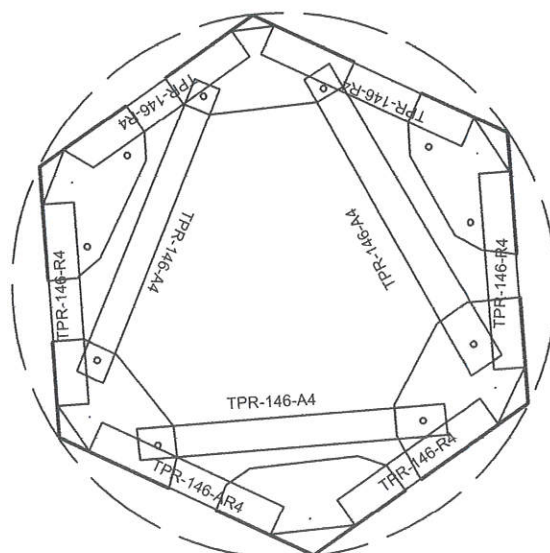


TOP MODULE

 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 150 25TH ST. PORT AREA, MANILA COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE	PROJECT TITLE : CONSTRUCTION OF LIGHT STATION BABUYAN WEST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY		SHEET NO.
	OWNER :	PHILIPPINE COAST GUARD	
	PREPARED BY :	CG F <i>[Signature]</i> James B. Lordey POIC CIVIL & STRUCTURAL BRANCH	
	REVISION DATE	CHECKED BY : <i>[Signature]</i> CG ENS Edgar C. Cortez Deputy Performance and Evaluation Head, Performance and Evaluation	
		RECOMMENDED BY : <i>[Signature]</i> N CG CDR RAY GARNET C. GAMALLO Deputy Performance and Evaluation Head, Performance and Evaluation	APPROVED BY : <i>[Signature]</i> CG CAPT PRUDENCE C. PATRICIO JR. (SSC) Commandant CGDS



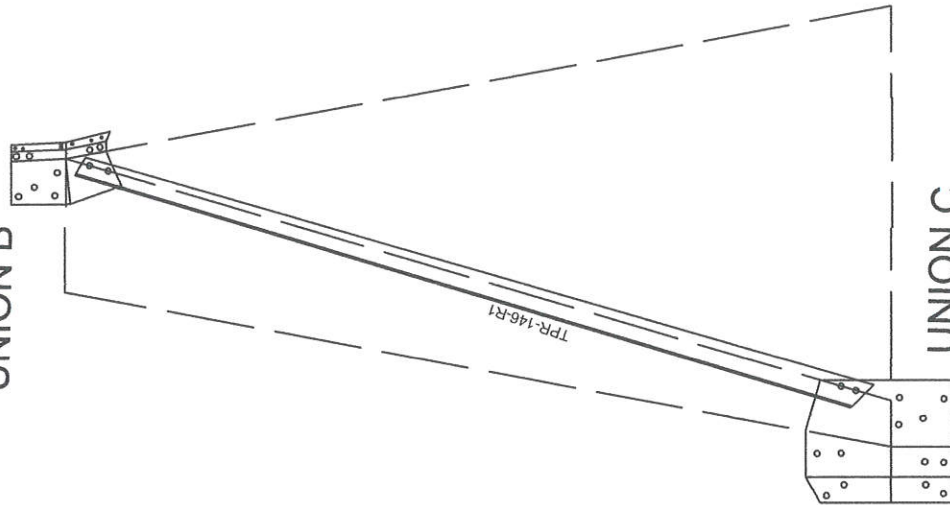
UNION B



UNION C

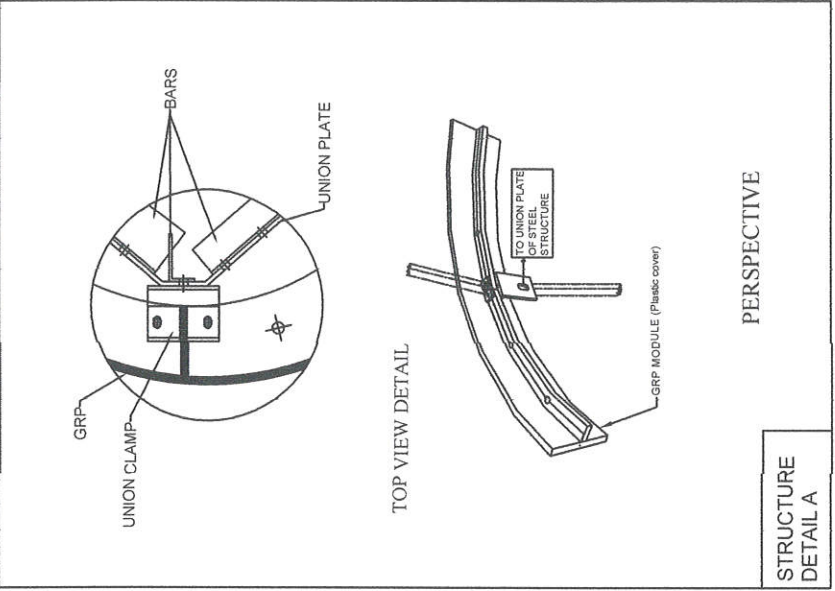
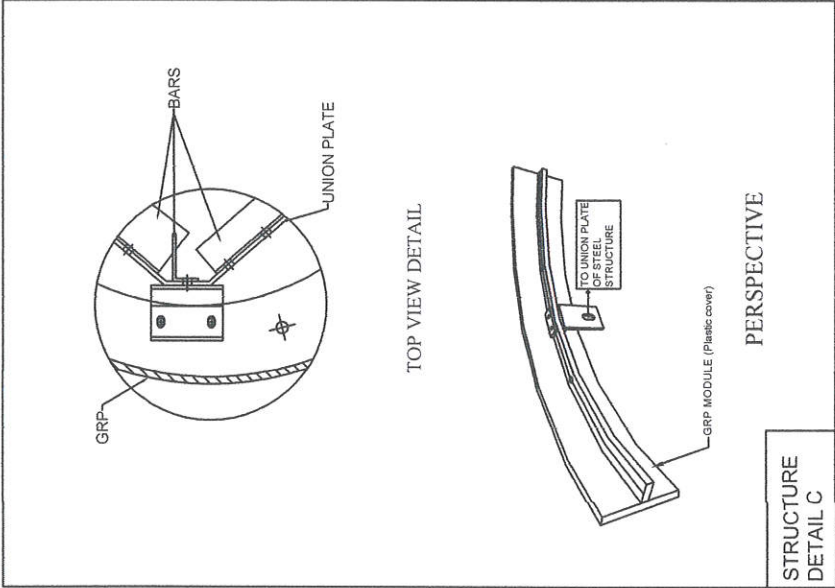
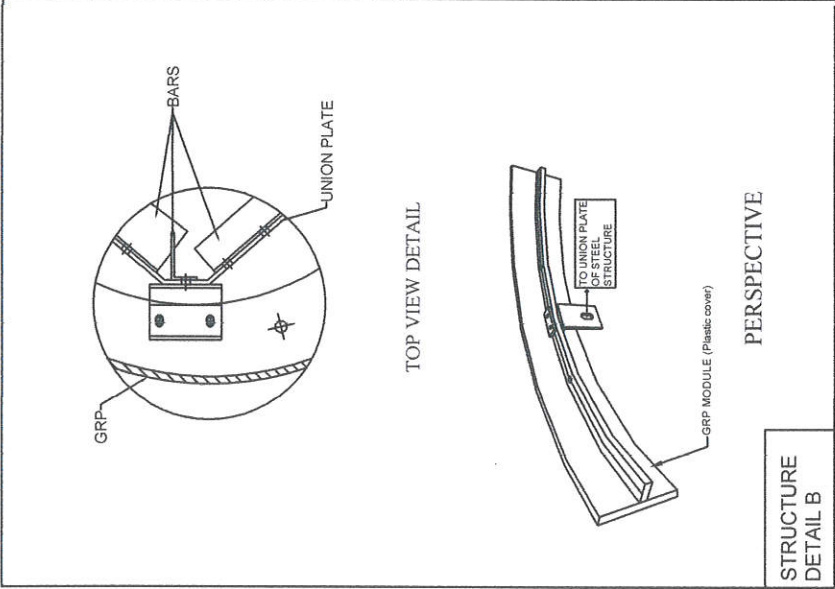
CONE TRUNCATED
MODULE-2

UNION B

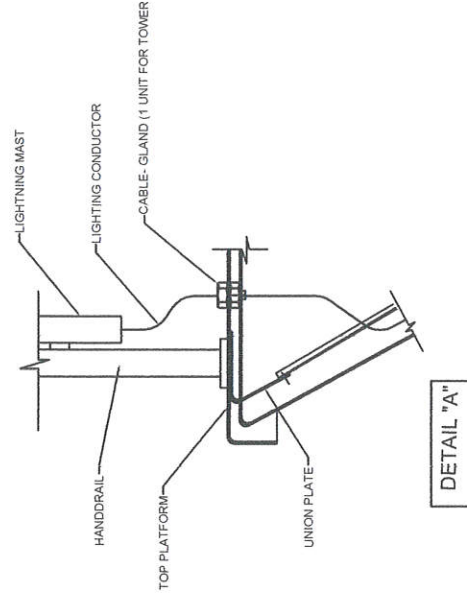
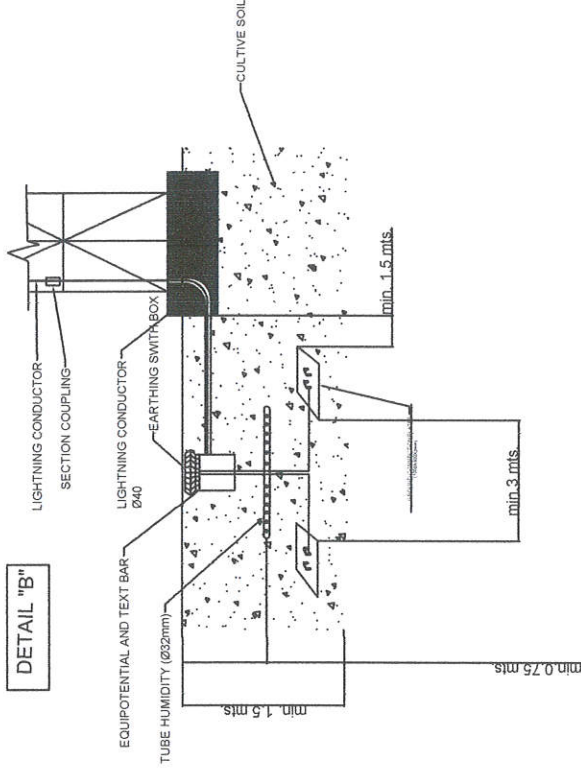
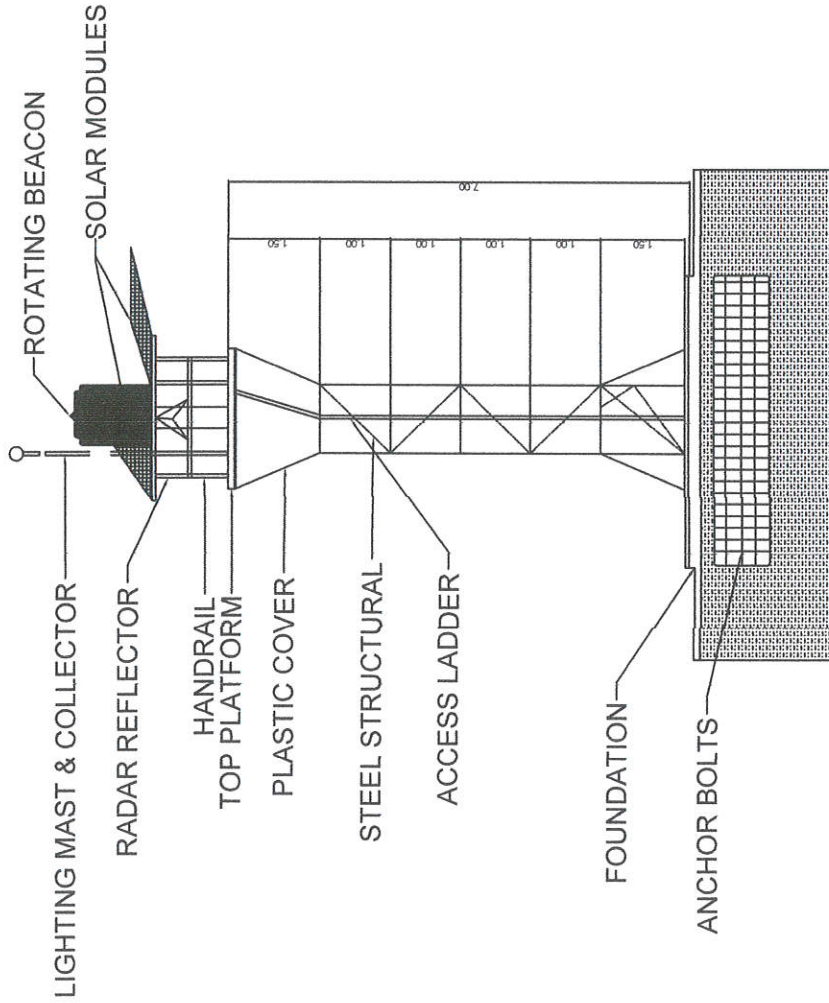


UNION C

 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 138 25TH ST. PORT AREA BANGAL, MANILA		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION BABUYAN WEST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BRGY. DILAM CALAYAN CAGAYAN OWNER: PHILIPPINE COAST GUARD PREPARED BY: CG PO James B. Lopez REVISION: POIC CIVIL & STRUCTURAL BRANCH		CHECKED BY: <i>Adj. Engr. Edgardo M. Cortez</i> DATE:		RECOMMENDED BY: <i>CG CAPT. GABRIEL C. GAMBALLO</i> APPROVED BY: <i>CG CAPT. PRUDENCIO C. PATRICIO JR.</i> Commander, CGIS		SHEET NO.	
--	--	--	--	---	--	--	--	-------------------------	--



		PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 159 25TH ST. PORT AREA MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE	
PROJECT TITLE : CONSTRUCTION OF LIGHT STATION BABUYAN WEST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY					
LOCATION : BIRGY, DILAM, CALAYAN, CAGAYAN					
OWNER : PHILIPPINE COAST GUARD					
PREPARED BY : <i>Edgar Reyes</i>		CHECKED BY : <i>Edgar Reyes</i>		RECOMMENDED BY : <i>CG CAPT PRUDEN M. O. PATRICIO JR.</i>	
REVISION : 1		DATE : 10/10/2018		CG CAPT PRUDEN M. O. PATRICIO JR. (GSC) Commander, CGUS	
POIC CIVIL & STRUCTURAL BRANCH		CG CD/PRN, GABRIEL C. GAMALLO Deputy Commander, CGUS		CG CAPT PRUDEN M. O. PATRICIO JR. (GSC) Commander, CGUS	
SHEET NO. 1					



GROUNDING PROTECTION SYSTEM

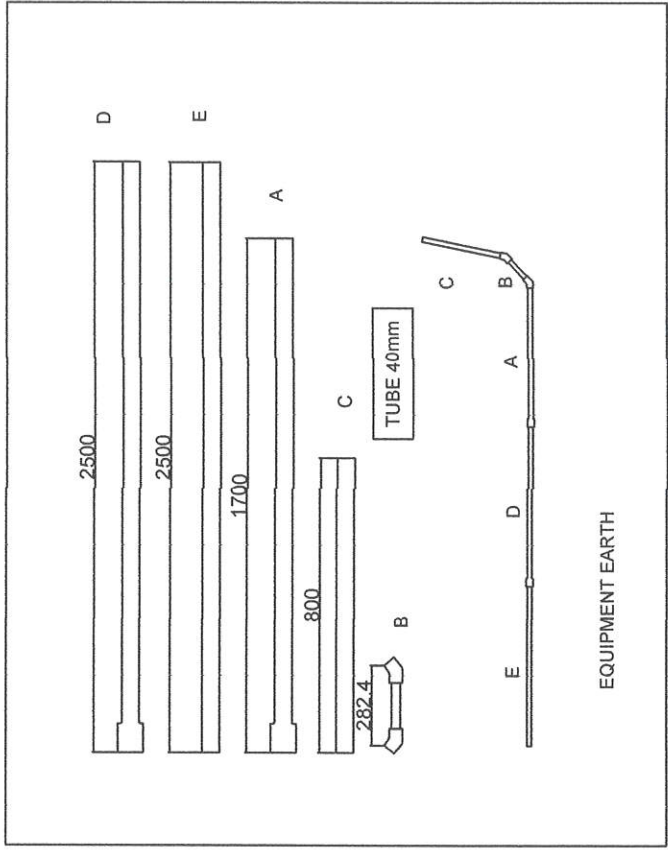
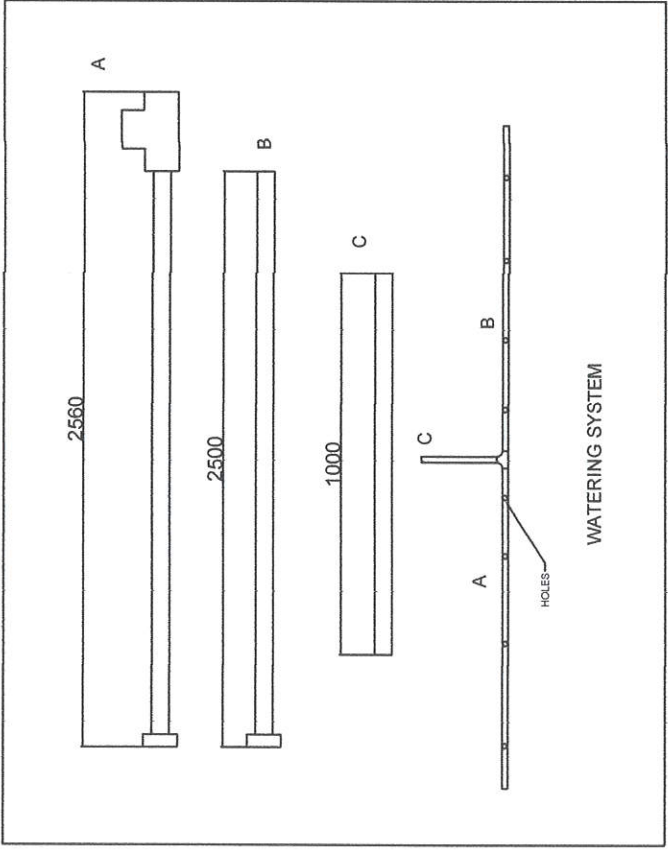


PHILIPPINE COAST GUARD
HEADQUARTERS PHILIPPINE COAST GUARD
125 SOUTH ST. PORT AREA MANILA

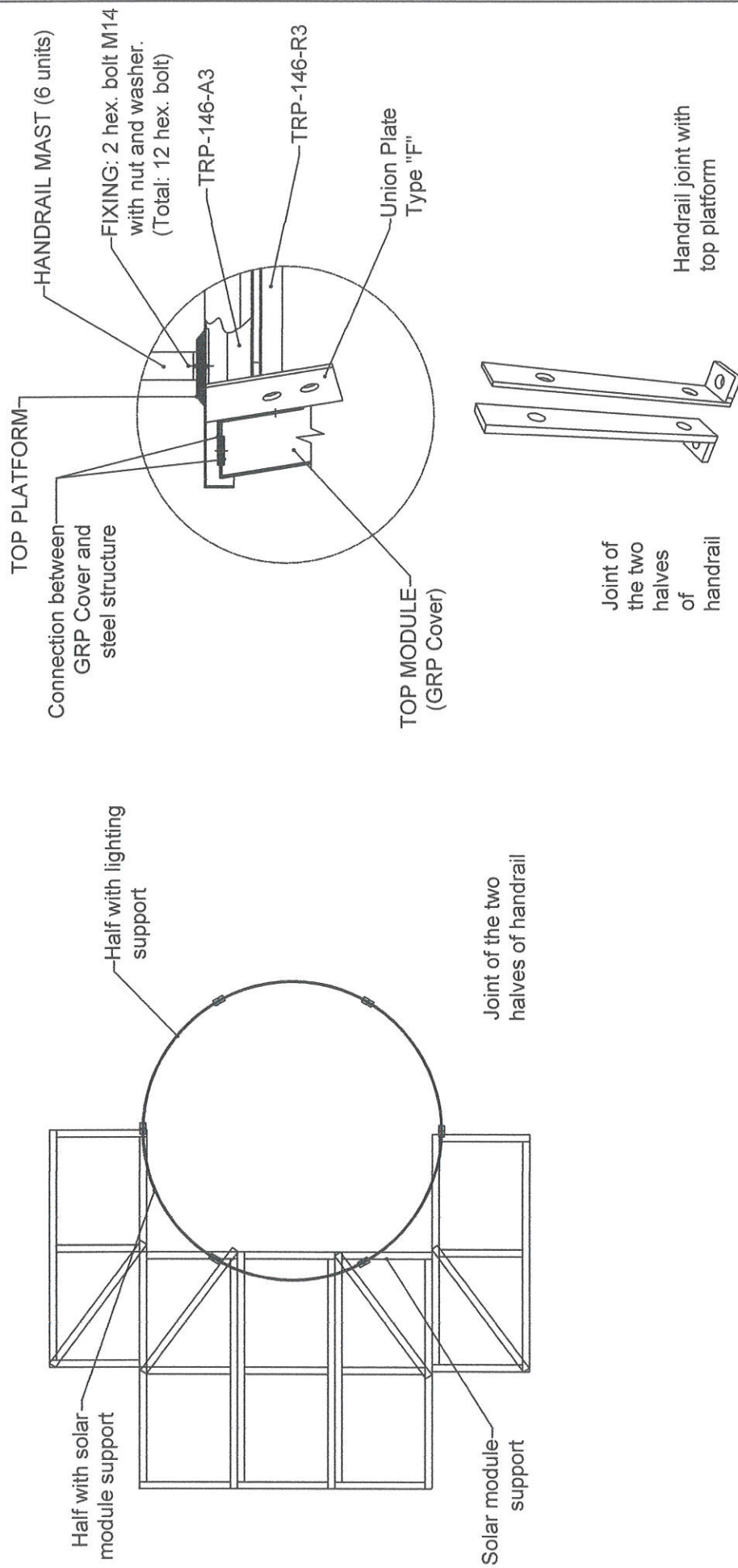
**COAST GUARD INFRASTRUCTURE
DEVELOPMENT SERVICE**

PROJECT TITLE : CONSTRUCTION OF LIGHT STATION BABUYAN WEST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY	
LOCATION: BRGY. DILAM CALAYAN CAGAYAN	OWNER: PHILIPPINE COAST GUARD
PREPARED BY: <i>[Signature]</i> CG PO3 JAMES B. LOPEZ POIC CIVIL & STRUCTURAL BRANCH	DATE: _____
REVISION: _____	DATE: _____

CHECKED BY: <i>[Signature]</i> CG ENS B. GARCIA Head, Performance and Evaluation	RECOMMENDED BY: <i>[Signature]</i> CG CORP. GABRIEL GAMALLO Deputy Commander, CGIDS	APPROVED BY: <i>[Signature]</i> CG CAPT PRUDENCIO C. PATRICIO JR. (GSC) Commander, CGIDS	SHEET NO.
--	---	--	-----------

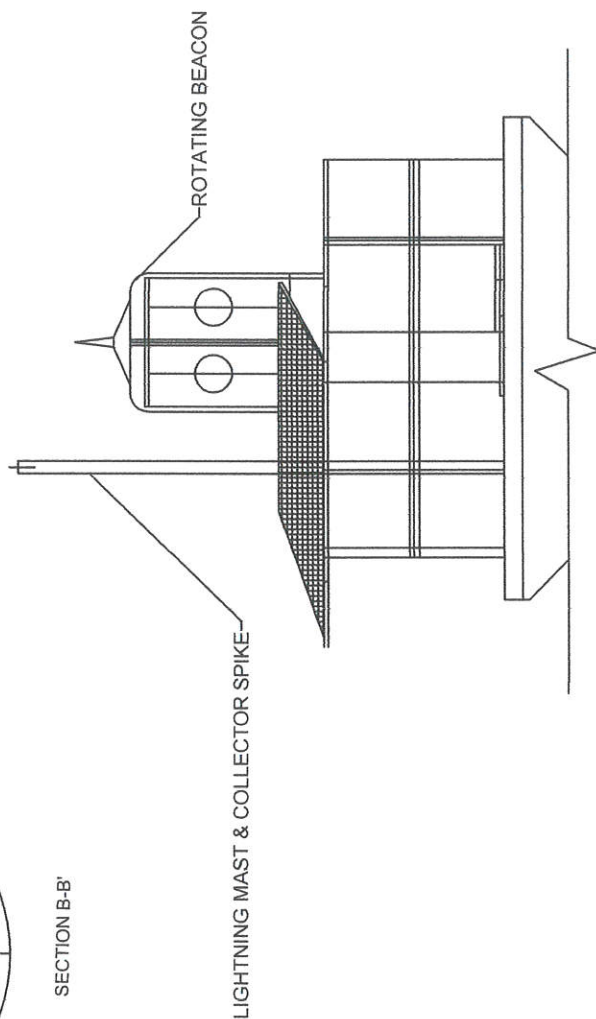


 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 139 35TH ST. PORT AREA MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION BABUYAN WEST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BRGY. DILAM, CALAYAN CAGAYAN OWNER: PHILIPPINE COAST GUARD	SHEET NO.
PREPARED BY CG PO3 <i>[Signature]</i> B. LARAY	CHECKED BY <i>[Signature]</i> CG ENS EDUARDO J. CORTEZ Head, Project Performance and Evaluation	RECOMMENDED BY <i>[Signature]</i> CG CAPT RAY GARNET O. GAMALLO Deputy Commander, CIGDS	APPROVED BY <i>[Signature]</i> CG CAPT PRUDENCIO C. PATRICIO JR. (SSC) Commander, CIGDS		
REVISION 1. <i>[Signature]</i> 10/10/2023	DATE				



PROTECTION HANDRAIL NTS

 PHILIPPINE COAST GUARD DEPARTMENT OF MARINE AND COASTAL RESOURCES MARITIME SAFETY AND SECURITY COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION BABUYAN WEST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION : BRGY. DILAW CALAYAN, CAGAYAN OWNER : PHILIPPINE COAST GUARD		SHEET NO.	
PREPARED BY : CG P. O. James B. Llobo POIC CIVIL & STRUCTURAL BRANCH	REVISION	CHECKED BY : <i>[Signature]</i> CG ENS EDUARDO J. CORTEZ Head, Project Performance and Evaluation	RECOMMENDED BY : <i>[Signature]</i> CG SDR FRANK GARNET G. GAMBALLO Deputy Commander, CGIDS	APPROVED BY : <i>[Signature]</i> CG CAPT PRUDENCIO C. PATRICIO JR. (SSC) Commander, CGIDS	DATE

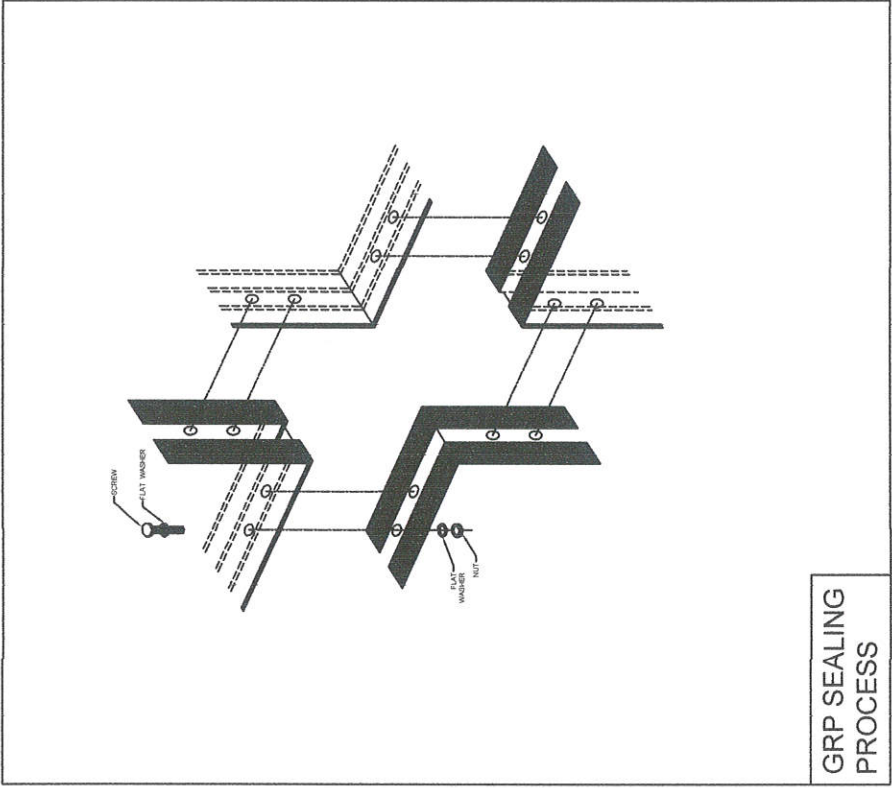
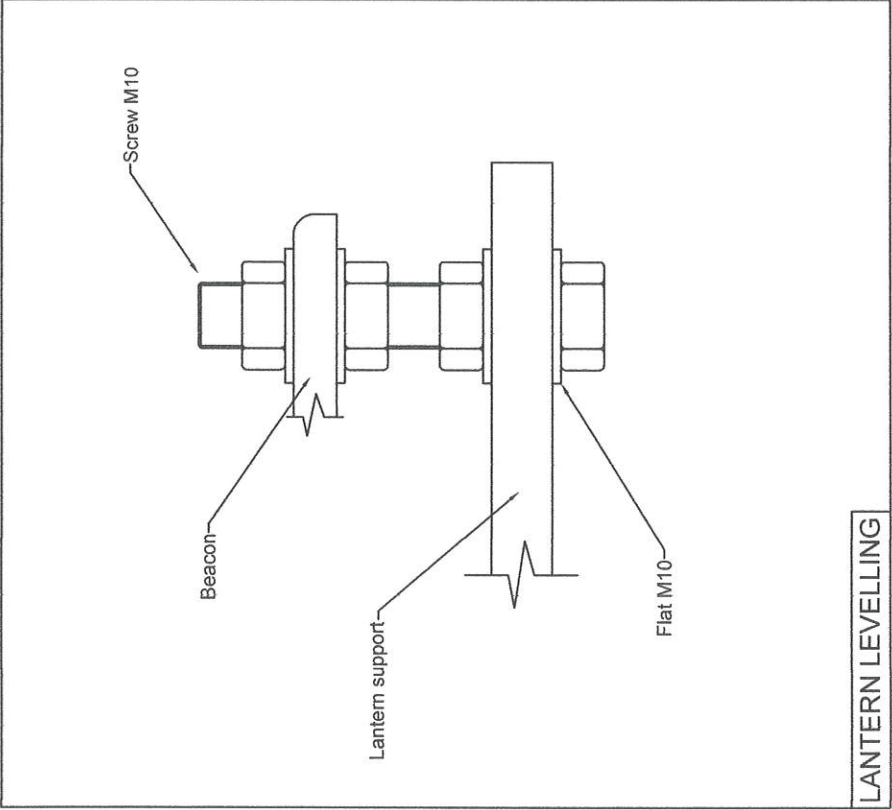


LANTERN SUPPORT

NTS

Lantern Support

 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 130-20TH ST. PORT AREA MANILA COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE	PROJECT TITLE : CONSTRUCTION OF LIGHT STATION BABUYAN WEST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BRGY. DILAM, CALAYAN, CAGAYAN OWNER: PHILIPPINE COAST GUARD		SHEET NO.		
	PREPARED BY <i>Edgardo J. Cortez</i> CG POSITIVE B. LORRY POIC CIVIL & STRUCTURAL BRANCH	CHECKED BY: <i>Edgardo J. Cortez</i> CG ENS EDUARDO J. CORTÉZ Head, Project Performance and Evaluation	RECOMMENDED BY: <i>[Signature]</i> CG CDR RAY GABRIEL C. SAILLO Deputy Commanding AGIS	APPROVED BY: <i>[Signature]</i> CG CAPT PRUDENCIO C. PATRICIO, JR. (SSC) Commanding AGIS	
	REVISION	DATE			



PHILIPPINE COAST GUARD
HEADQUARTERS PHILIPPINE COAST GUARD
150 25TH ST. PORT AREA, MANILA

COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE

PROJECT TITLE :

CONSTRUCTION OF LIGHT STATION BABUYAN WEST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY

LOCATION:

BRCY, DILAM, CALAYAN, CAGAYAN

OWNER:

PHILIPPINE COAST GUARD

PREPARED BY:

CG PO CIVIL & STRUCTURAL BRANCH

REVISION:

DATE

CHECKED BY:

CG ENS EDGARDO J. CORTEZ

Head, Project Performance and Evaluation

RECOMMENDED BY:

CG CDR RAY GARNET C. SINALLO

Deputy Commander, CGIS

APPROVED BY:

CG CAPT PRUDENCIO C. PATRICIO JR. (GSC)

Commandant, CGIS

SHEET NO.