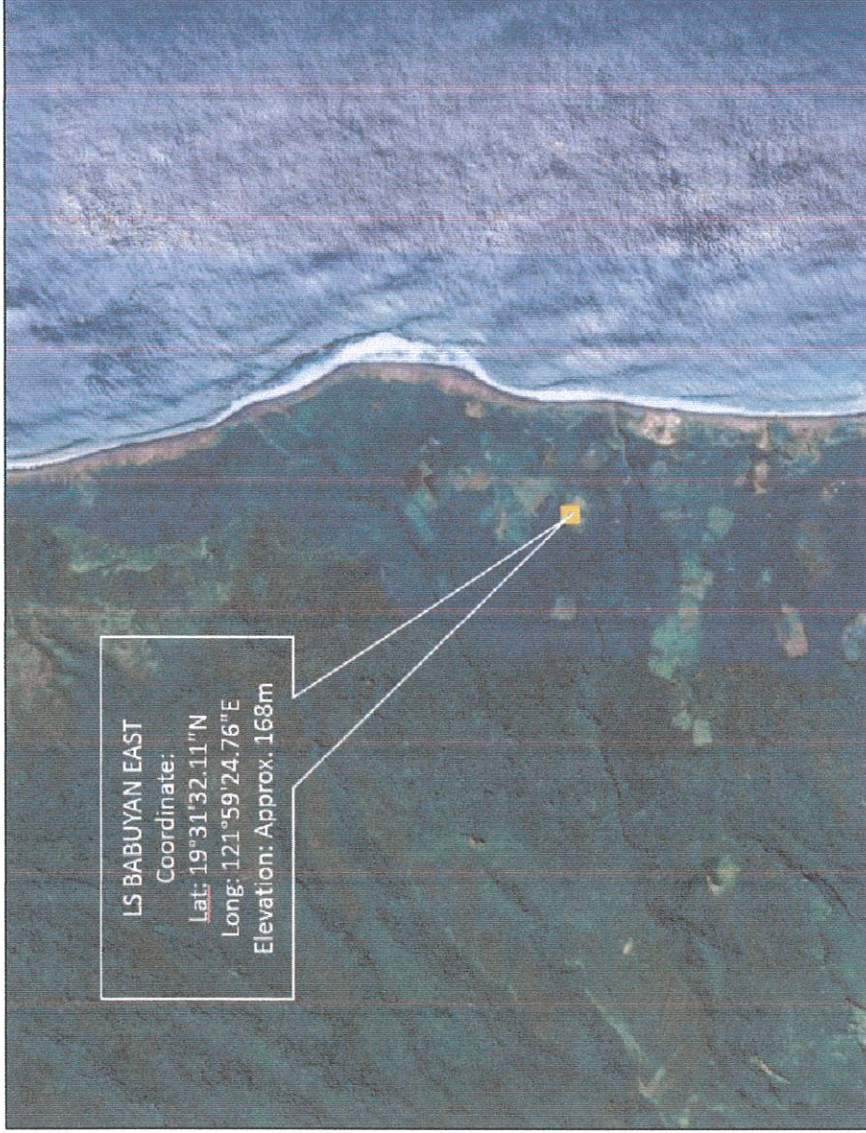
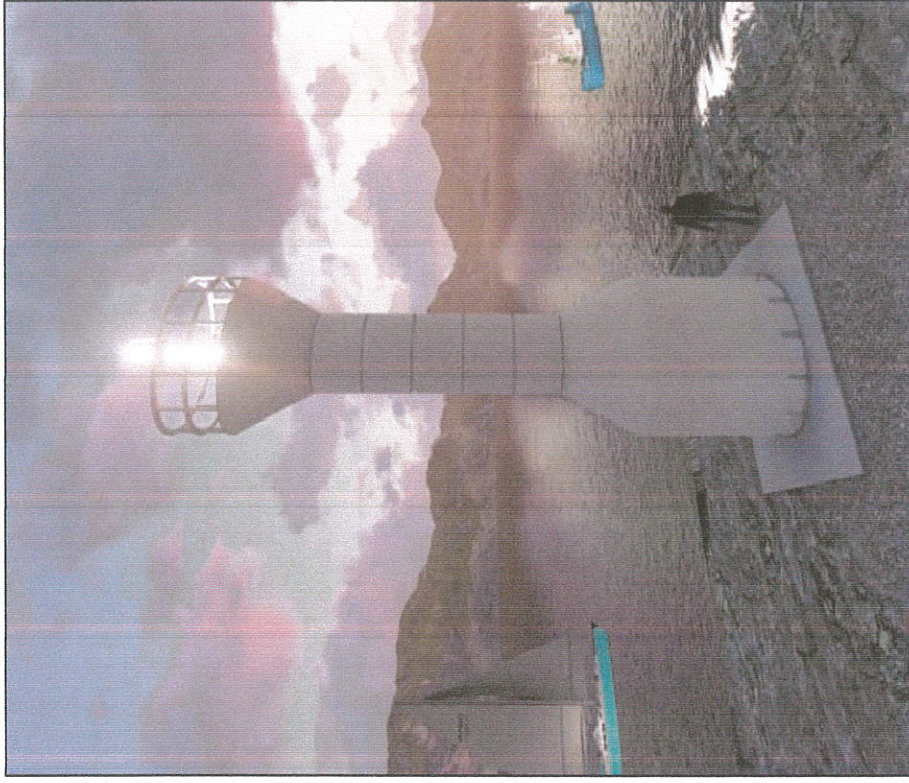




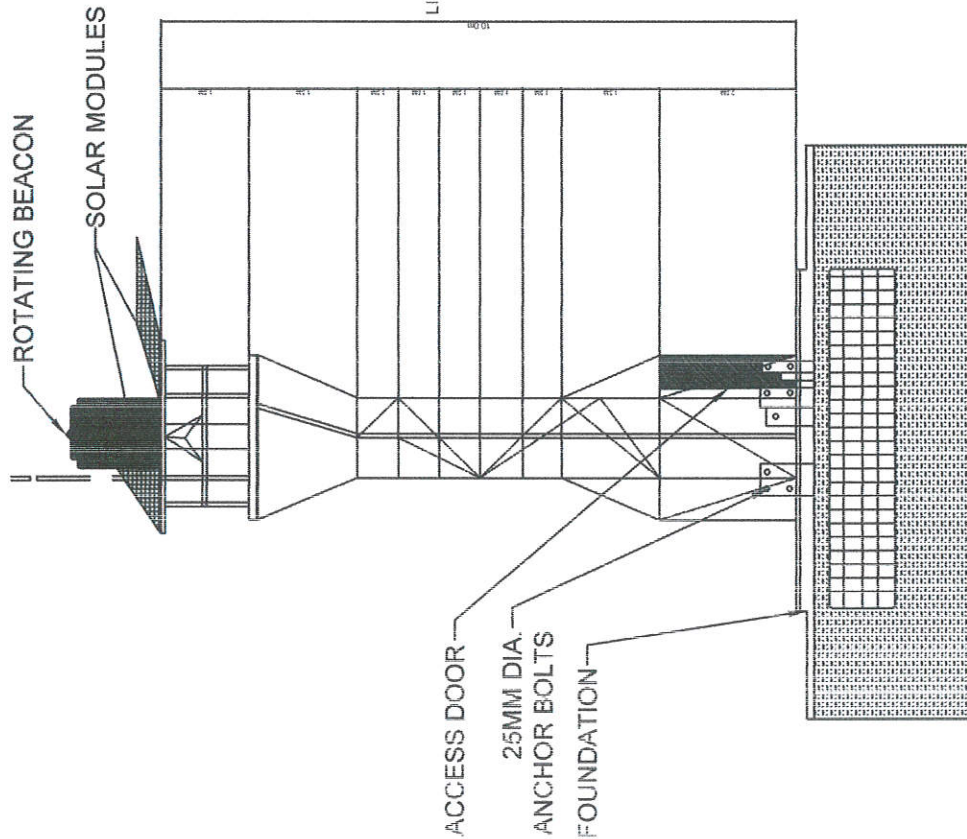
LS BABUYAN EAST
Coordinate:
Lat: 19°31'32.11"N
Long: 121°59'24.76"E
Elevation: Approx. 168m

SITE DEVELOPMENT PLAN

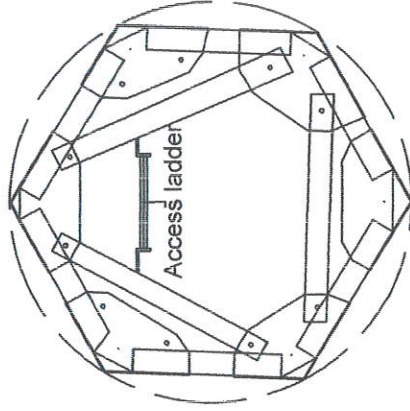
PERSPECTIVE

 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 129 25TH ST. PORT AREA, MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION BABUYAN EAST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BRGY. DADAO, CALAYAN, CAGAYAN OWNER: PHILIPPINE COAST GUARD		SHEET NO.	
PREPARED BY CG CGENJO Reynor J. de Pascual Estimator/CAD Operator, CGDS		CHECKED BY  CGENJO Reynor J. de Pascual Estimator/CAD Operator, CGDS		RECOMMENDED BY  CGCDR AN GABRIEL CAMALLO Deputy Commander, CGDS		APPROVED BY  CG CAPT PRUDENCIO PATRICIO JR. (GSC) Commander, CGDS	
REVISION DATE		Head, Project Performance and Evaluation  CGENJO Reynor J. de Pascual					

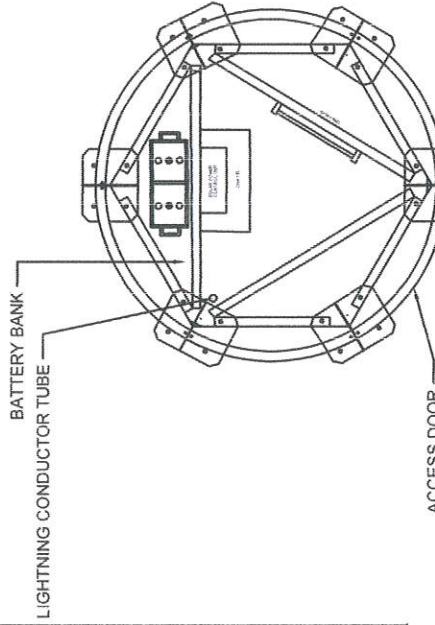
GENERAL DRAWING



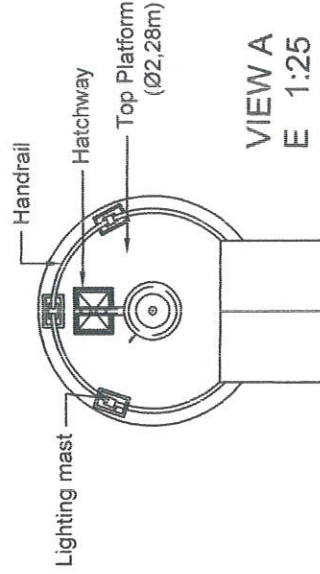
TOWER DESCRIPTION	DIMENSION
HEIGHT	10000mm
BASE DIAMETER	2000mm
TOWER DIAMETER	1200mm
FOUNDATION BOLT PCD	1850mm
NUMBER OF MODULES/SECTIONS	8



SECTION B-B'
E 1:15

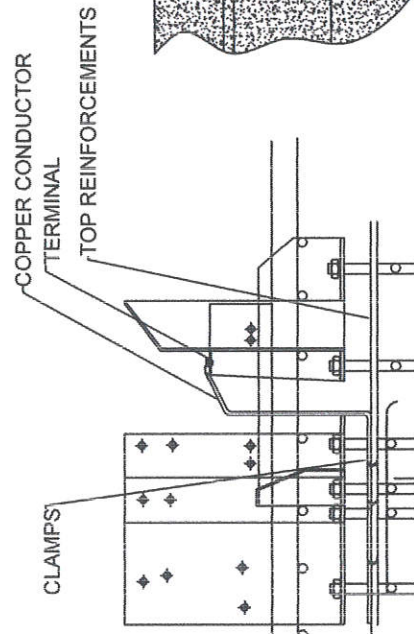
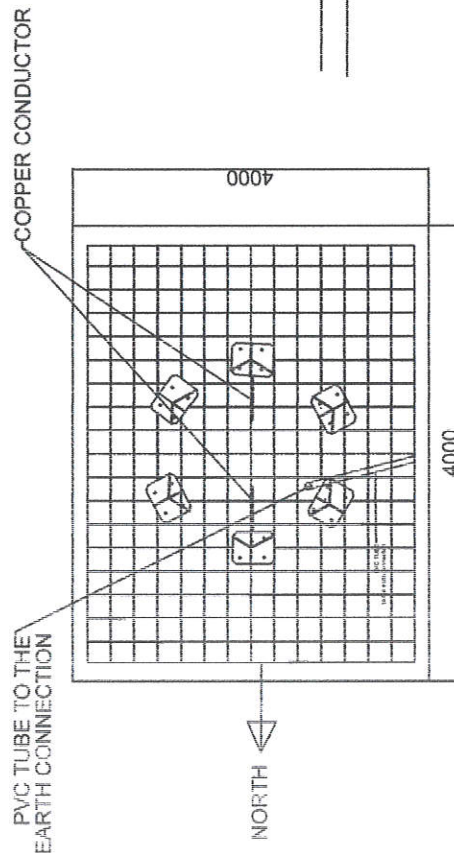
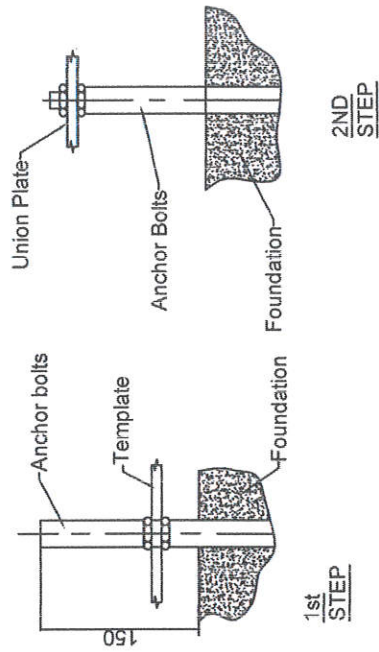
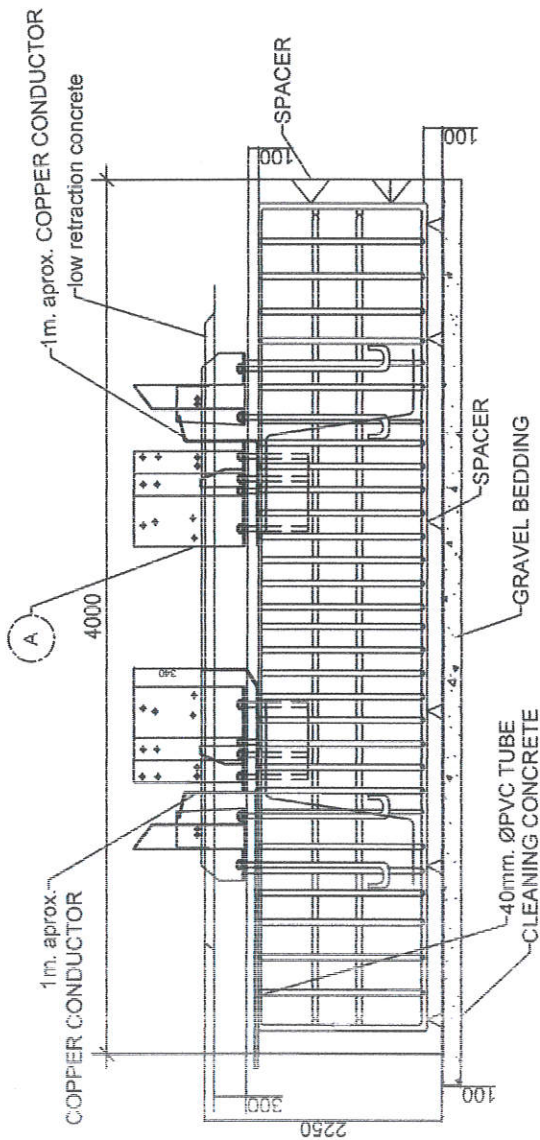


SECTION C-C'
E 1:25



VIEW A
E 1:25

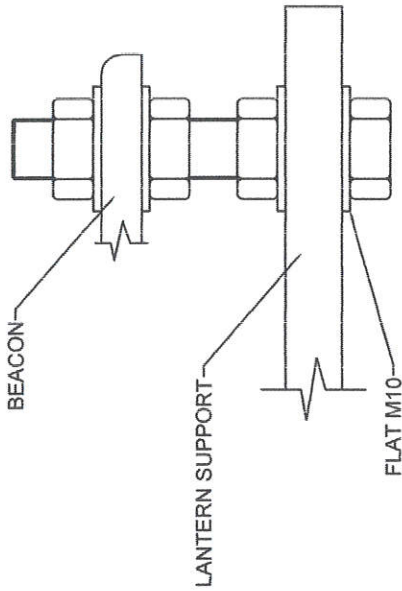
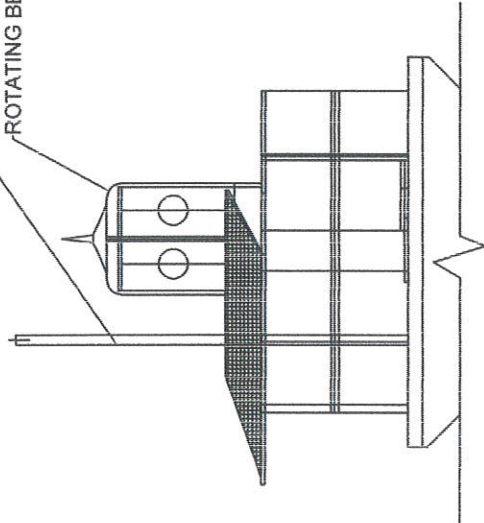
PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 139 25TH ST. PORT AREA MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE	
PROJECT TITLE : CONSTRUCTION OF 13 BABUYAN EAST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BRGY. DADAO, CALAYAN, CAGAYAN OWNER: PHILIPPINE COAST GUARD			
PREPARED BY CG CGNO RAYNOR ACE PASCUAL Estimator/CAD Operator, CGDS	CHECKED BY: CG ENS EDUARDO C. COPEZ Head, Project performance and evaluation	RECOMMENDED BY: CG CAPT RAY GARNET C. GAMALLO Deputy Commander, CGDS	APPROVED BY: CG CAPT PRUDENCIO PATRICIO JR (GSC) Commander, CGDS
SHEET NO.		SHEET NO.	



FOUNDATION

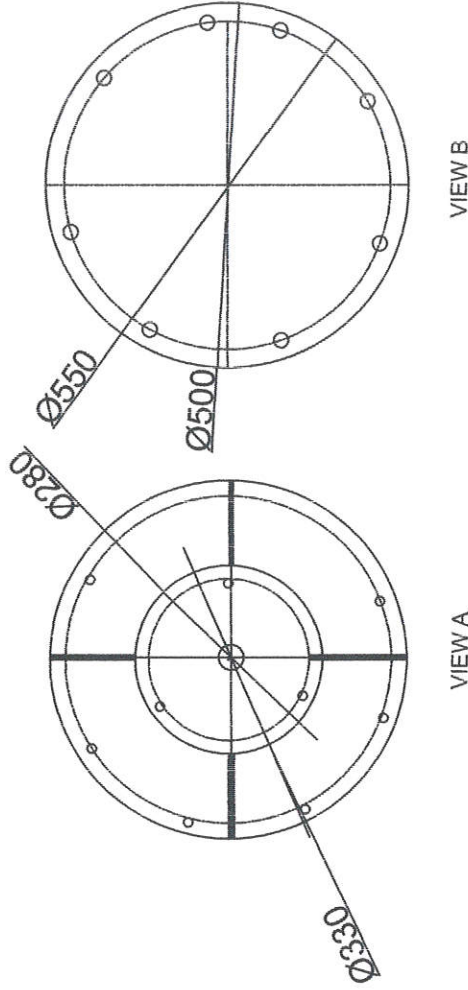
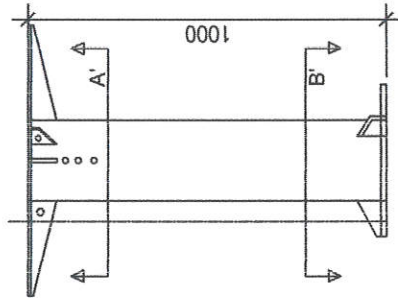
 PHILIPPINE COAST GUARD 1142 QUANTRO PHILIPPINE COAST GUARD 139-25TH ST. PORT AREA NAKA		PROJECT TITLE : CONSTRUCTION OF 13 BABUYAN EAST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BRGY. DADAO, CALAYAN, CAGAYAN OWNER: PHILIPPINE COAST GUARD		SHEET NO.	
PREPARED BY: CG CGONO RAYNORACE PASCUAL Environmental Operator, CGDS REVISION DATE		CHECKED BY: CG EDGARDO JOSE		RECOMMENDED BY: CG CARAN GARNET C GAMALO Deputy Commander, CGDS	
APPROVED BY: CG CAPT PRUDENCIO CPATRICIO JR (GSC) Commander, CGDS		CG CAPT PRUDENCIO CPATRICIO JR (GSC) Commander, CGDS			

LIGHTNING MAST & COLLECTOR SPIKE
ROTATING BEACON

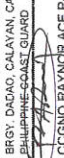
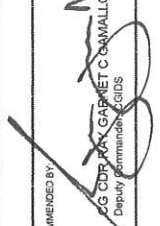
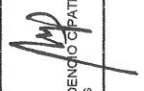


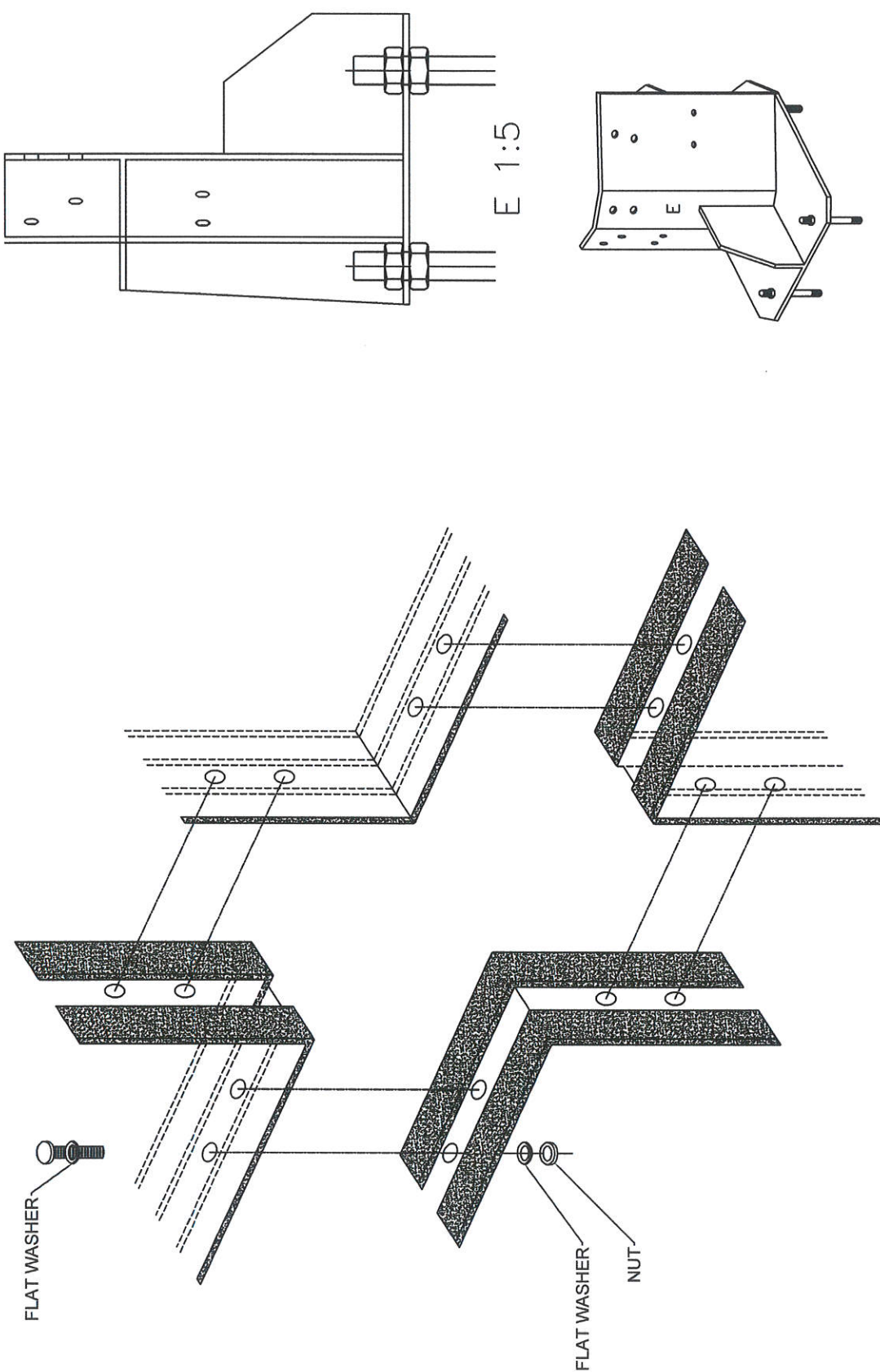
LANTERN LEVELLING

LIGHTNING MAST
HATCHWAY
HANDRAIL
TOP PLATFORM
(02.28M)



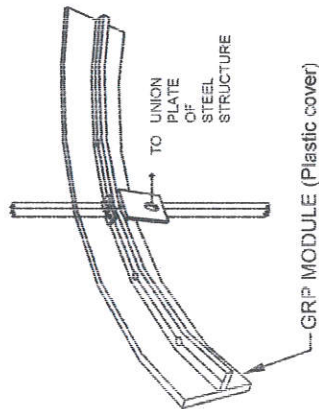
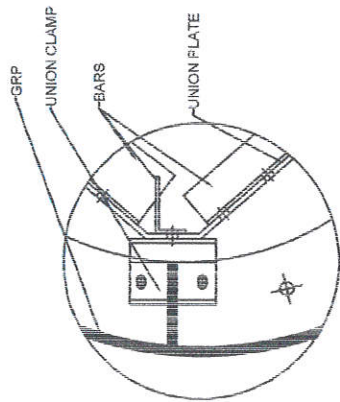
LANTERN SUPPORT

		PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 152 25TH ST. PORT AREA MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LS BABUYAN EAST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BRGY. DADAO, CALAYAN, CAGAYAN OWNER: PHILIPPINE COAST GUARD	SHEET NO.
PREPARED BY CG CCGNO RAYNOR ACE PASCUAL Estimator/CAD Operator, CGIDS		CHECKED BY: 		RECOMMENDED BY: 		APPROVED BY: 	CG CAPT PRUDENCIO PATRICIO JR (GSC) Commander, CGIDS
REGION		DATE		CG ENS EDGARDO TORRES Head, Project Performance and Evaluation			

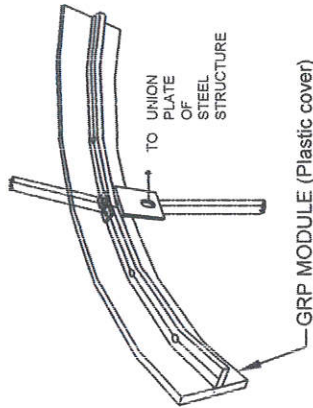
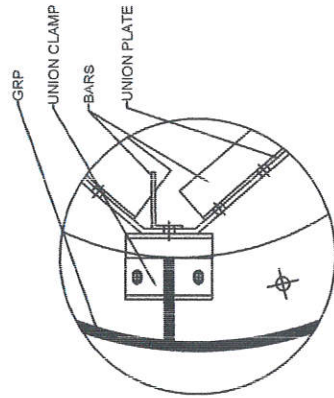


GRP SEALING PROCESS

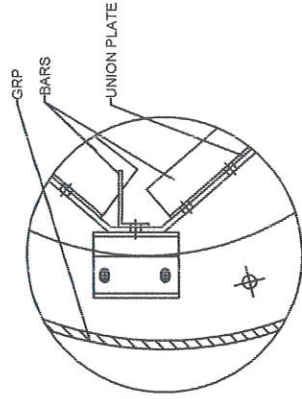
 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 100 SEN. E. AVENUE, PASAYEN, MANILA		PROJECT TITLE : CONSTRUCTION OF LS BABUYAN EAST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BRIGHT, DADAGA, CALAYAN, CAGAYAN OWNER: PHILIPPINE COAST GUARD		SHEET NO.	
PREPARED BY CG CGNO RAYNOR ACE PASUAL Estimator/CAD Operator, CGIS		CHECKED BY:  CG ENS EDOARDO J. CORTES Head, Project Performance and Evaluation		RECOMMENDED BY:  CG CDR AN GARNET C. GAMALLO Deputy Commander, CGIS	
REVISION		DATE		APPROVED BY:  CG CAPT PRUDENCIO CEPATRICIO JR (GSC) Commander, CGIS	



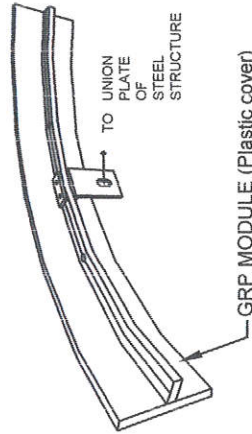
STRUCTURE DETAIL A



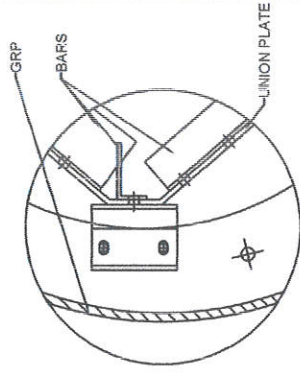
STRUCTURE DETAIL B



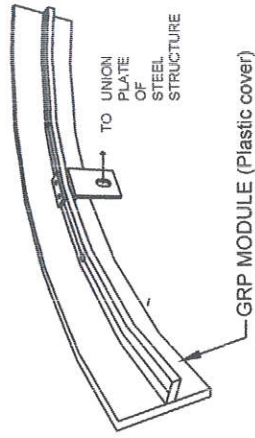
TOP VIEW
DETAIL



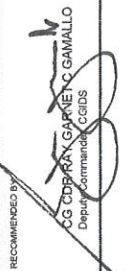
STRUCTURE DETAIL C

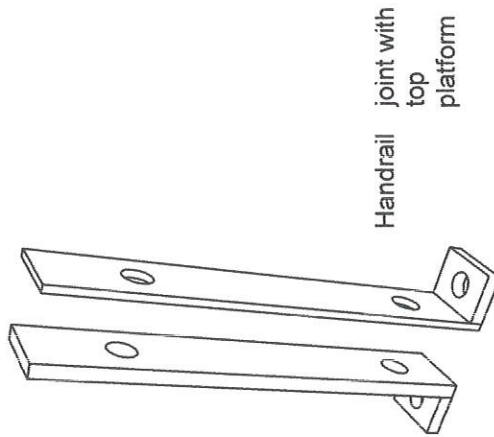
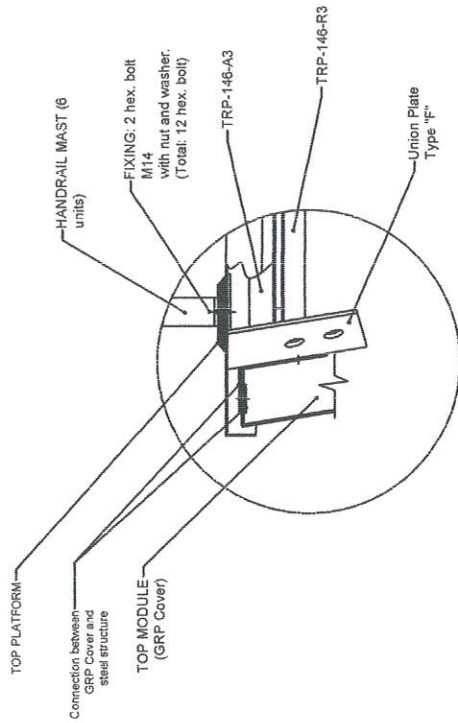
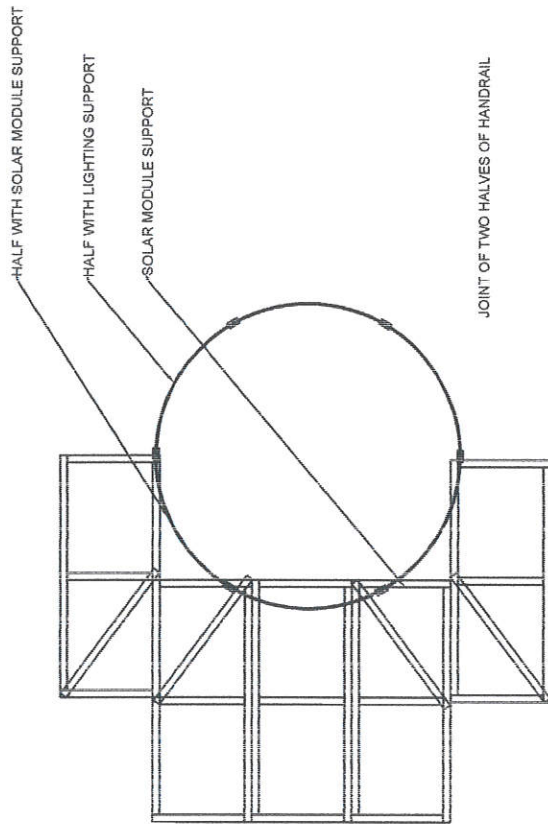


TOP VIEW
DETAIL

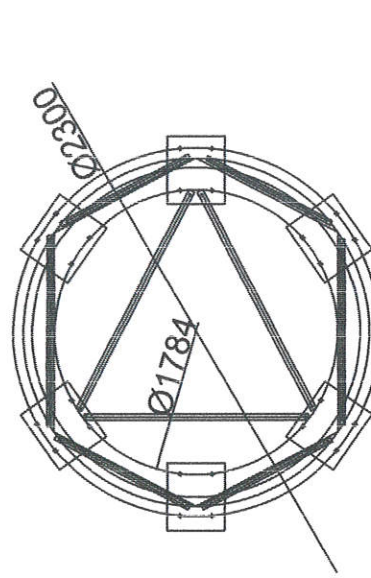


STRUCTURE DETAIL D

 PHILIPPINE COAST GUARD 100 SOUTH STREET, PORT AREA, MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LS BABUYAN EAST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BRGY. DADAQ, CALAYAN, CAGAYAN OWNER: PHILIPPINE COAST GUARD		SHEET NO.	
PREPARED BY CG CECILIO P. VENTURA ESTABLISHMENT OPERATOR, CGIS		CHECKED BY:  CG ENSIGN EDUARDO J. CORPUZ Head Project Performance and Evaluation		RECOMMENDED BY:  CG COPRAN GARNER C. GAMALLO Deputy Commander, CGIS		APPROVED BY:  CG CAPT PRUDENCIO C. PATRICIO JR (GSC) Commander, CGIS	



Joint of the two halves of handrail



 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 130 25TH ST. PORT AREA MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LS BABUYAN EAST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BRGY. DADAO, CALAYAN, CAGAYAN OWNER: PHILIPPINE COAST GUARD	SHEET NO.
PREPARED BY : CG CGNO RAYNOR ACE PASCUAL Estimator/COA Operator, CGIDS	CHECKED BY : <i>[Signature]</i> CG ENS EDGARDE P. ROKETZ Head Project Performance and Evaluation	RECOMMENDED BY : <i>[Signature]</i> CG CD RAN GARNET C GAMALLO Deputy Commander, CGIDS	APPROVED BY : <i>[Signature]</i> CG CAPT PRUDENCIO C PATRICIO JR (GSC) Commander, CGIDS		
REVISION DATE					

The diagram illustrates a multi-level structure with seven levels, labeled LEVEL 1 to LEVEL 7. Each level is represented by a 3D geometric shape (a cube or a pyramid) and is associated with a specific material or component label (e.g., TRP-1.6B-A1, TRP-1.6B-A2, etc.). The levels are arranged in a vertical stack, with LEVEL 1 at the bottom and LEVEL 7 at the top. The diagram also includes a cross-section view of the structure, showing the internal layers and the overall dimensions (e.g., thickness=8mm, thickness=10mm, etc.). The cross-section view is labeled 'Type F Union' and 'Type B Union'.

LEVEL 7
TRP-1.6B-A2
TRP-1.6B-A2

LEVEL 6
TRP-1.6B-A2
TRP-1.6B-A2

LEVEL 5
TRP-1.6B-A2
TRP-1.6B-A2

LEVEL 4
TRP-1.6B-A2
TRP-1.6B-A2

LEVEL 3
TRP-1.6B-A1
TRP-1.6B-A1

LEVEL 2
TRP-1.6B-A4
TRP-1.6B-A4

LEVEL 1
TRP-1.6B-A5
TRP-1.6B-A5

Type F Union
thickness=8mm

Type B Union
thickness=10mm

Type A Union
thickness=8mm

Type A Union
thickness=8mm

Type A Union
thickness=8mm

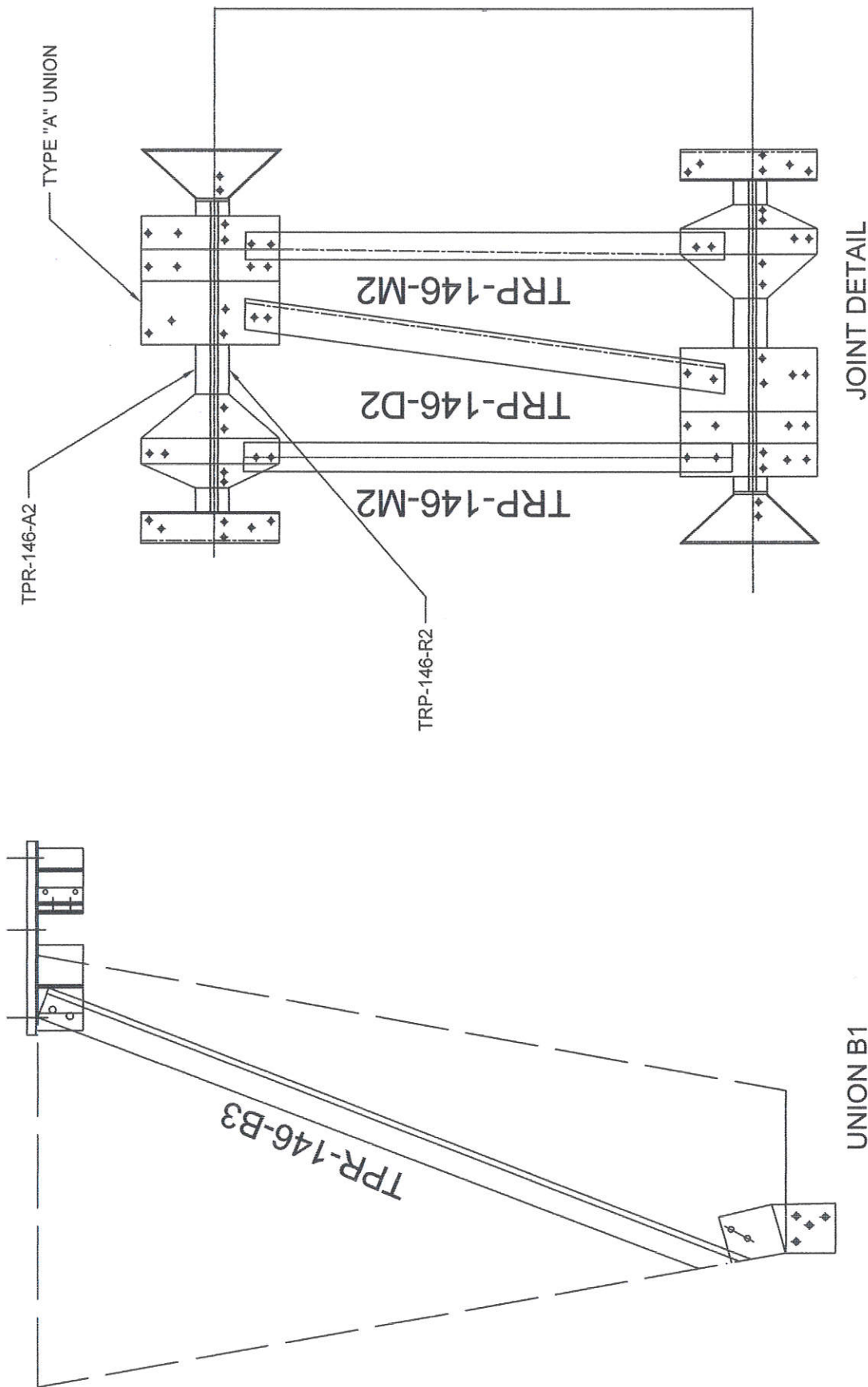
Type B Union
thickness=10mm

Type C Union
thickness=14mm

Type E Union
thickness=10mm

E 1.75

NAME	SHAPE	QUANTITY	BOLT SIZE	TORQUE(N.M)
TPR-146-R1	L60.5	6	M-16X35	210
TPR-146-A1	L60.5	3	M-16X35	210
TPR-146-M1	L70.6	6	M-20X40	410
TPR-146-D1	L70.6	6	M-20X40	410
TPR-146-R2	L60.5	24	M-16X35	210
TPR-146-A2	L60.5	12	M-16X35	210
TPR-146-M2	L60.5	24	M-16X35	210
TPR-146-D2	L60.5	24	M-16X35	210
TPR-146-R3	2L60.5(T)	6	M-16X35	210
TPR-146-A3	L60.5	6	M-16X35	210
TPR-146-M3	L60.5	6	M-16X35	210
TPR-146-D3	L60.5	6	M-16X35	210
TPR-146-B3	L60.5	3	M-16X40	210
TPR-146-R4	L60.5	12	M-16X35	210
TPR-146-A4	L60.5	6	M-16X35	210
TPR-146-M4	L90.8	6	M-24X45	710
TPR-146-D4	L80.8	6	M-24X45	710
TPR-146-R5	L60.5	6	M-16X35	210
TPR-146-A5	L60.5	3	M-16X35	210
TPR-146-M5	L100.8	6	M-24X45	710



UNION B1

JOINT DETAIL

TOP PLATFORM CENTRAL SUPPORT

 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 132 25TH ST. PORT AREA MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LS BABUYAN EAST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BRGY. DADAO, CALAYAN, CAGAYAN OWNER: PHILIPPINE COAST GUARD	SHEET NO.
PREPARED BY: <i>[Signature]</i> CGS CCGNO RIVERO, Ace Priscual Estimator/CAD Operator, CGIDS		CHECKED BY: <i>[Signature]</i> CGS ENS EDGARDO J. CORTEZ Head, Project Performance and Evaluation	RECOMMENDED BY: <i>[Signature]</i> CGS DORR RAY GARNIER, C. GAMALLO Deputy Commander, CGIDS	APPROVED BY: <i>[Signature]</i> CG CAPT PRUDENCIO C. PATRICIO JR. (GSC) Commander, CGIDS	DATE:

UNION



UNION



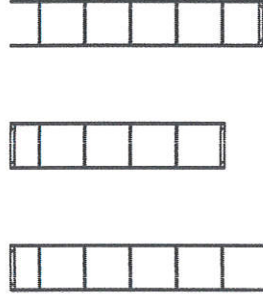
UNION



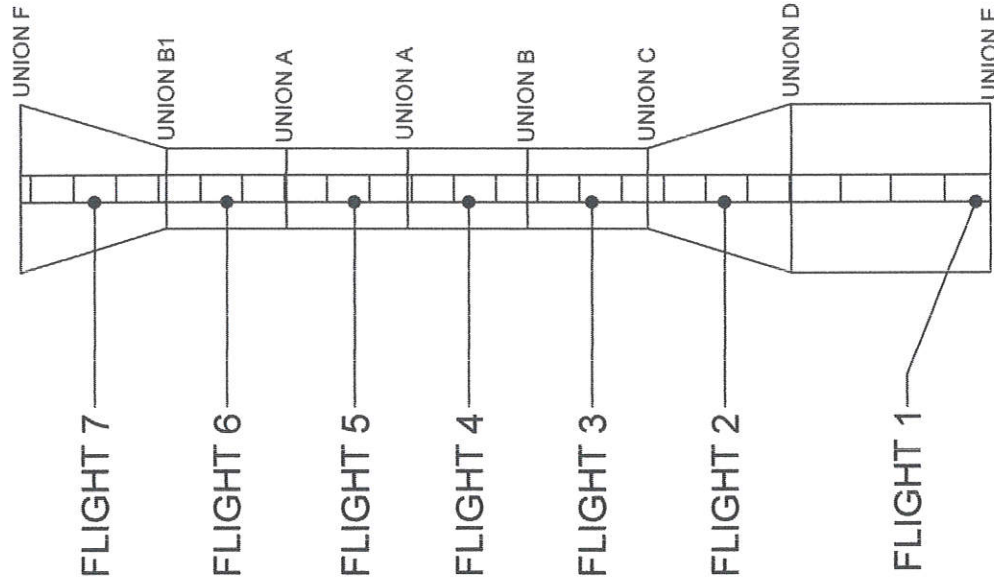
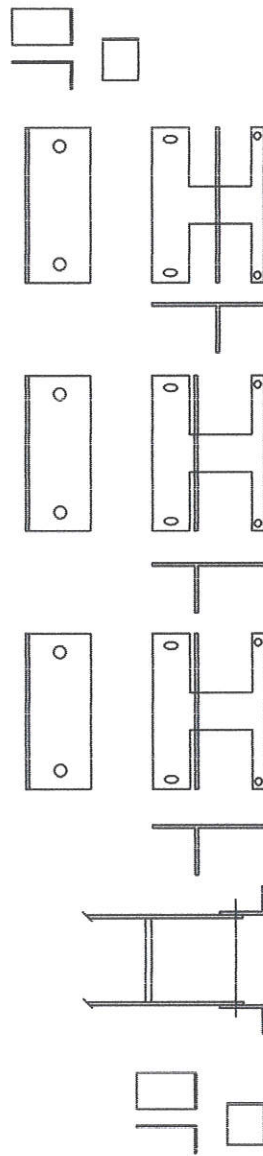
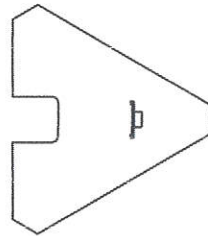
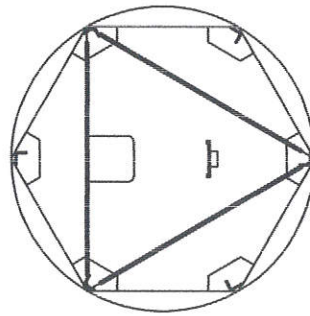
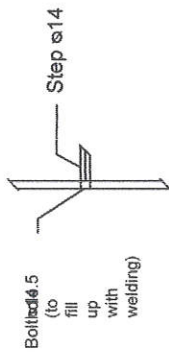
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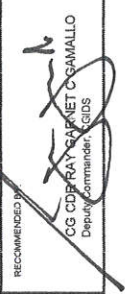
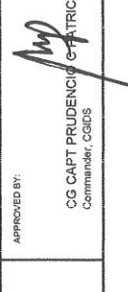
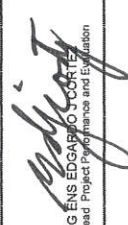
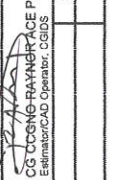
FLIGHT FLIGHTS 3 & 6 TRAMIO

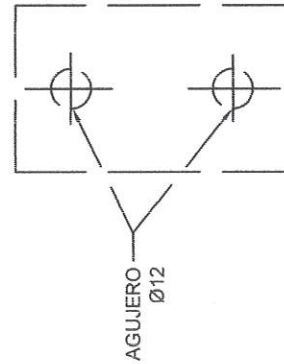
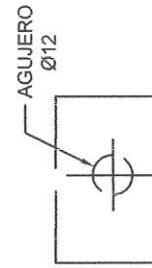
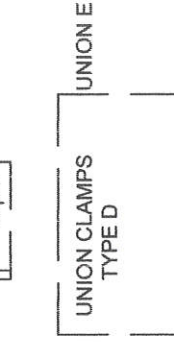
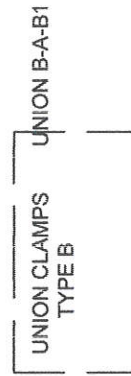
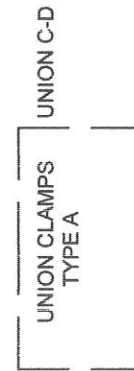
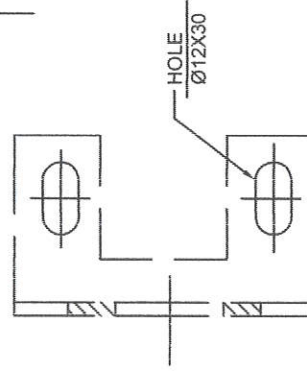
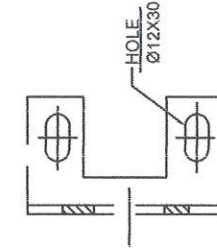
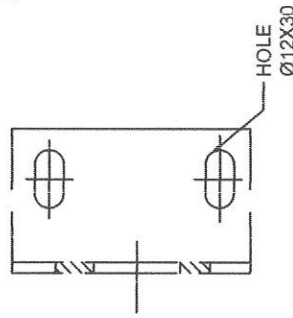
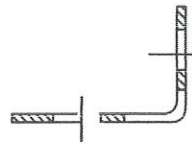
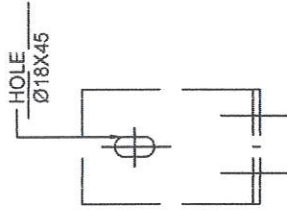
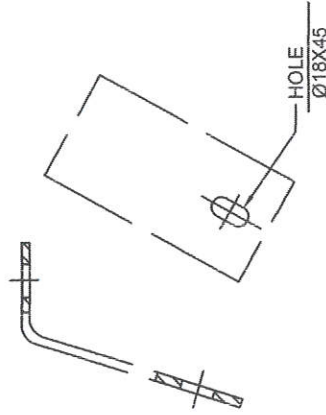
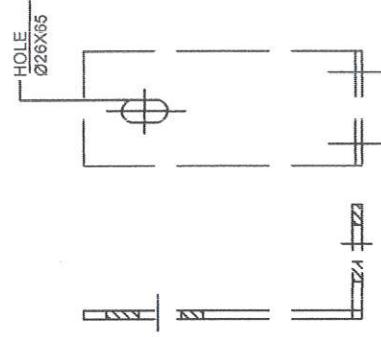


Union of step



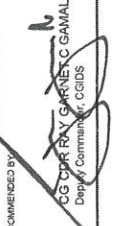
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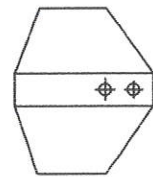
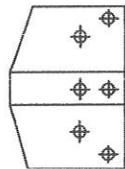
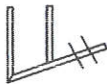
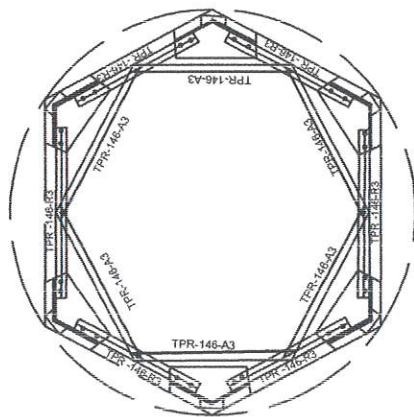
 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 139 25TH ST. PORT AREA MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LS BABUYAN EAST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY	SHEET NO.
LOCATION: BRGY. DADAO, CALAYAN, CAGAYAN	OWNER: PHILIPPINE COAST GUARD	RECOMMENDED BY:  CG CDR RAY GARNET C. GAMALLO Deputy Commander, CGDS	APPROVED BY:  CG CAPT PRUDENCIO Commander, CGDS		
PREPARED BY:  CG ENS EDGARDO V. CORTES Head, Project Performance and Evaluation	CHECKED BY:  CG CDR RAY GARNET C. GAMALLO Deputy Commander, CGDS	DATE			



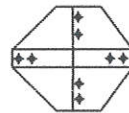
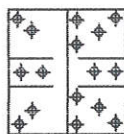
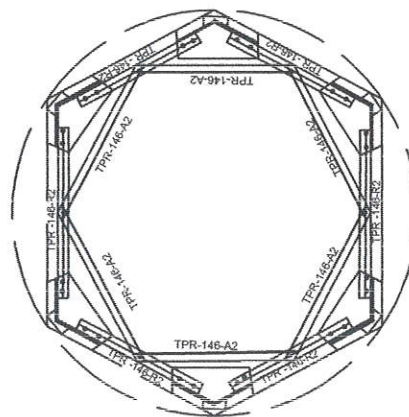
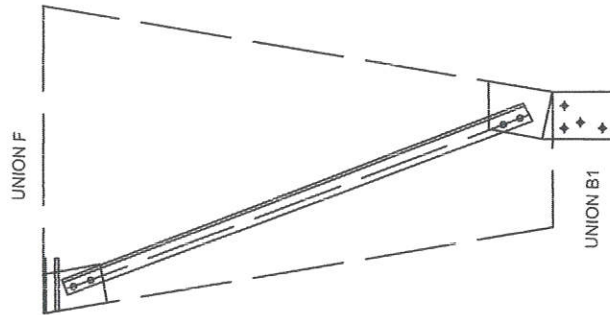
GRP- UNION STRUCTURAL CLAMPS(A-B-C-D)

UNION PLATES

 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 139 25TH ST. PORT AREA MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LS BABUYAN EAST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BRGY. DADAQ, CALAYAN, CAGAYAN OWNER: PHILIPPINE COAST GUARD	SHEET NO.
PREPARED BY CG ENS EDUARDO TORRES Estimation and Evaluation	CHECKED BY:  CG ENS EDUARDO TORRES Head Project Performance and Evaluation	RECOMMENDED BY:  CG CAPT PRUDENCIO C PATRICIO JR (GSC) Commander, CGIDS	APPROVED BY:  CG CAPT PRUDENCIO C PATRICIO JR (GSC) Commander, CGIDS		
REVISION	DATE				



UNION F



UNION B1



PHILIPPINE COAST GUARD

HEADQUARTERS PHILIPPINE COAST GUARD
139 26TH ST, PORT AREA MANILA

**COAST GUARD INFRASTRUCTURE
DEVELOPMENT SERVICE**

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

LOCATION: BRGY. DADAO, CALAYAN, CAGAYAN
OWNER: PHILIPPINE COAST GUARD

PREPARED BY: CG CUNYON-PAYANORACE PASCUAL
Estimator/CO Operator, CGIS

REVISION

DATE

CHECKED BY:

CG ENSEPIRADO VORTIZ
Head Project Performance and Evaluation

RECOMMENDED BY:

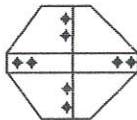
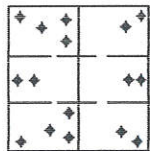
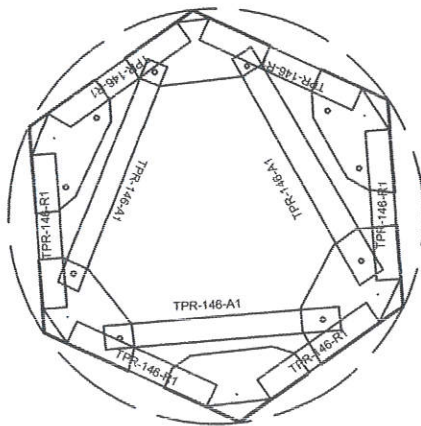
CG COPRAN GARRET GAMALLO
Deputy Commander, CGIS

APPROVED BY:

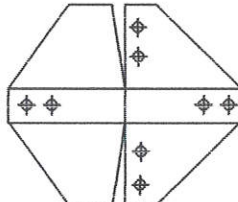
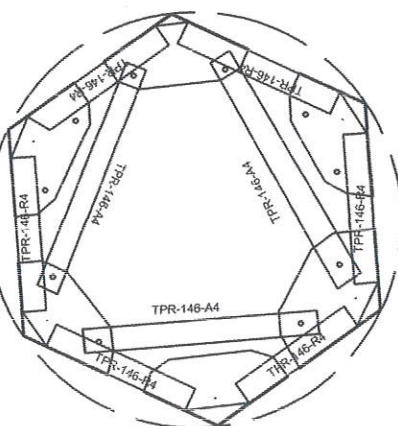
CG CAPT PRUDENCIO C PATRICIO JR (GSC)
Commander, CGIS

SHEET NO.

UNION B



UNION B

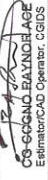


TPR-146-A3

UNION C

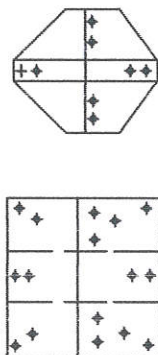
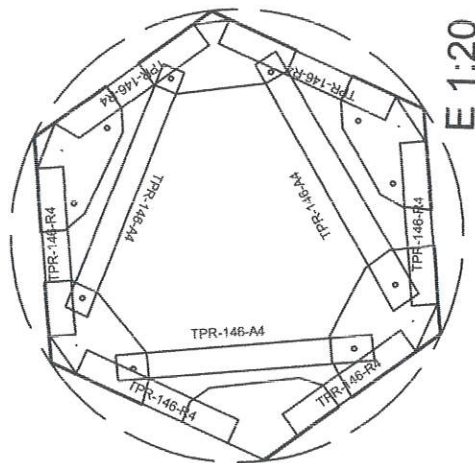
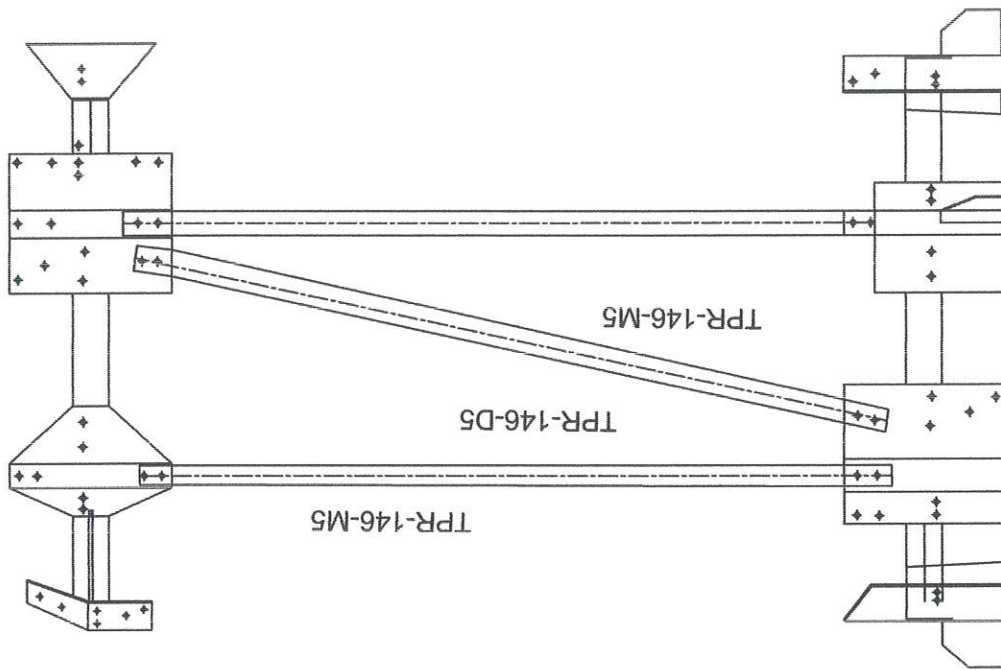
CONE TRUNCATED MODULE-2

UNION C

 PHILIPPINE COAST GUARD 152 25TH ST, PORT AREA MANILA		PROJECT TITLE : CONSTRUCTION OF LS BABUYAN EAST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BRGY. DAQAO, CALAYAN, CAGAYAN OWNER: PHILIPPINE COAST GUARD		SHEET NO.	
COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		RECOMMENDED BY:  CGDR RAY SARIN CAGAMALLO Deputy Commander, CGDS		APPROVED BY:  CG CAPT PRUDENCIO C PATRICIO JR (GSC) Commander, CGDS	
CHECKED BY:  CG ENS EDOARDO TORREZ Head Project Performance and Evaluation		PREPARED BY:  CG-GGNO EDALYN LAGAS PASCUAL Estimation/CO Operator, CGDS		REVISION	
DATE		DATE		DATE	

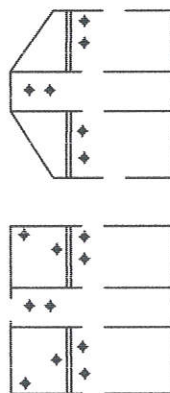
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UNION C



UNION C

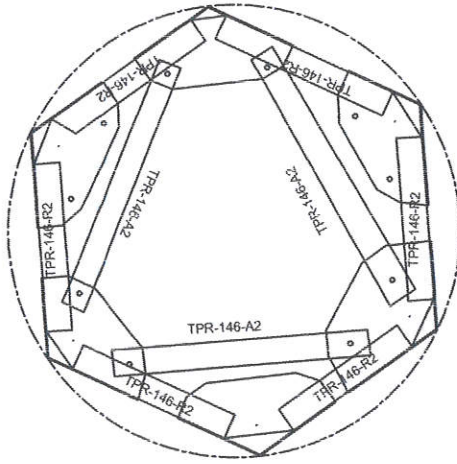
UNION E



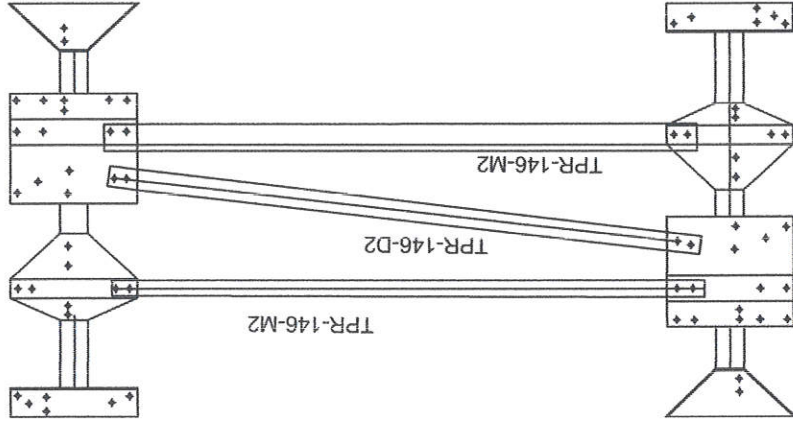
UNION E

 PHILIPPINE COAST GUARD 1450 SOUTH AVENUE, PORT AREA MANILA 132 25TH ST. PORT AREA MANILA		PROJECT TITLE : CONSTRUCTION OF LS BABUYAN EAST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BRGY. DADAO, CALAYAN, CAGAYAN OWNER: PHILIPPINE COAST GUARD		SHEET NO.	
COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		RECOMMENDED BY: CG CAPT PRUDENCIO C PATRICIO JR (GSC) Commander, CGDS		APPROVED BY: CG CAPT PRUDENCIO C PATRICIO JR (GSC) Commander, CGDS	
PREPARED BY: CG CDR RAYNOR PASCUAL Estimator, CGDS		CHECKED BY: CG CDR RAYNOR PASCUAL Estimator, CGDS		COVENS EDGARDO J. CORTES Head Project Performance and Evaluation	
REVISION		DATE		DATE	

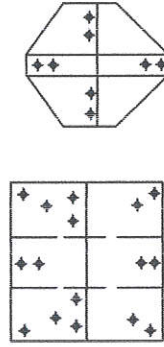
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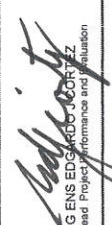
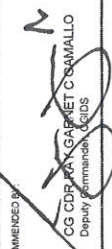


UNION A



UNION A



 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 139 25TH ST. PORT AREA MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LS BABUYAN EAST AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: BRGY. DADAO, CALAYAN, CAGAYAN OWNER: PHILIPPINE COAST GUARD		SHEET NO.	
PREPARED BY CG-CCGO RAYNOB AGE PASCUAL Estimator/CAD Operator, CGDS		CHECKED BY:  CG ENS EDGARDO RIVERA Head Project Performance and Evaluation		RECOMMENDED BY:  CG CDR RAN GARNET C SAMALLO Deputy Commander, CGDS		APPROVED BY:  CG CAPT PRUDENCIO CPATRICIO JR (GSC) Commander, CGDS	



PHILIPPINE COAST GUARD

HEADQUARTERS PHILIPPINE COAST GUARD
139 25TH ST. PORT AREA MANILA

**COAST GUARD INFRASTRUCTURE
DEVELOPMENT SERVICE**

PROJECT TITLE :
LOCATION:
OWNER:

PREPARED BY

CG CCGNO-RAYNOR ACE PASCUAL
Estimator/CAD Operator, CGIDS

CG CCGNO RAYNOR ACE PASCO
Estimator/CAD Operator, CGIDS

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

APPROVED BY:  CG CDR RAY GARNETT C GAMALLO
Deputy Commander, CGIDS

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

APPROVED BY:

CG CAPT PRUDENCIO C PATRICIO JR (GSC)
Commander, CGIDS

SHEET NO.

DETAIL "B"



 PHILIPPINE COAST GUARD 139 SOUTH 67, PORT AREA MANILA	COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LS BABUYAN EAST 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	APPROVED BY: <i>[Signature]</i> CG CAPT PRUDENCIO C PATRICIO JR (GSC) Commander, CGIDS		
PREPARED BY: CG CGSNO. RAYNER ACE PASQUAL Estimator/CAD Operator, CGIDS	CHECKED BY: <i>[Signature]</i> CG ENS EUGENIO CORTES JR Head, Project Performance and Evaluation	RECOMMENDED BY: <i>[Signature]</i> CG CD/FRAN. SARNET C GAWALLO Deputy Commander, CGIDS	DATE	REVISION