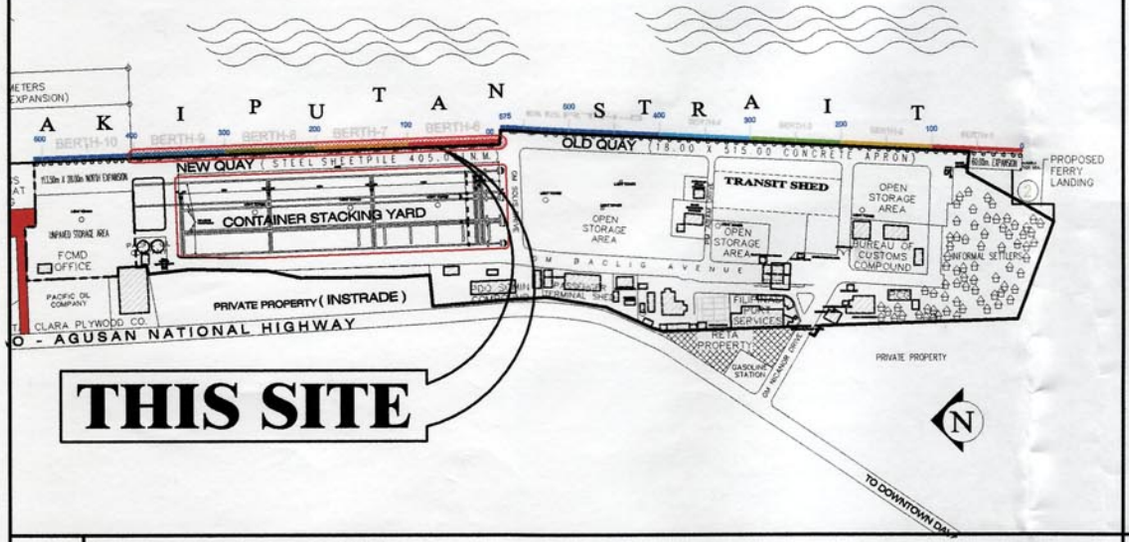


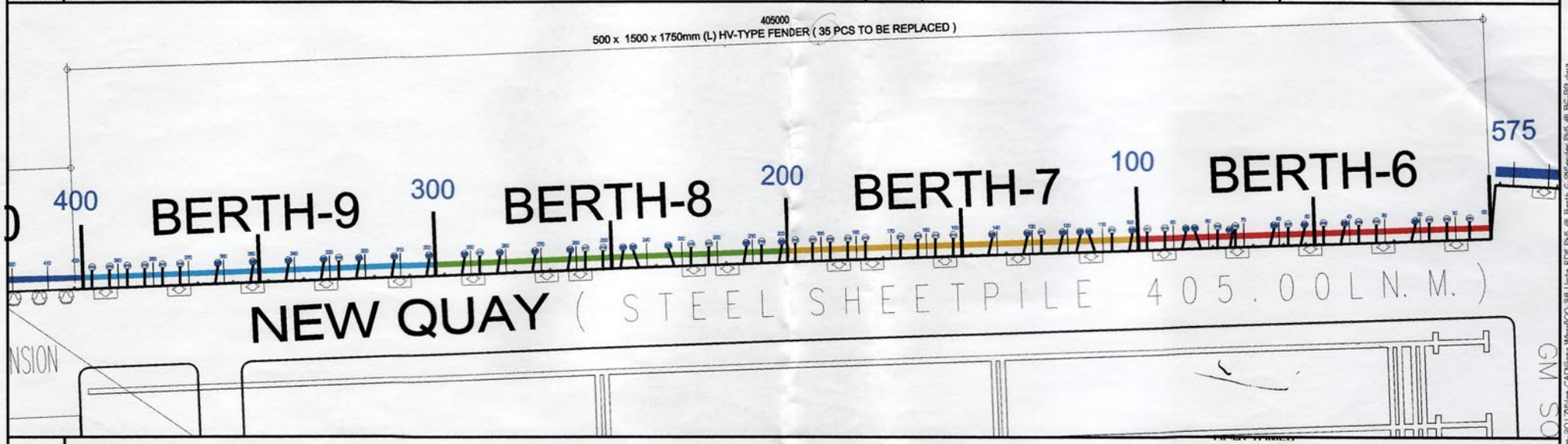
01.1 **LOCATION PLAN**
SCALE 1:6000 METERS



01.2 **VICINITY MAP**
SCALE 1:NTS METERS

SHT. NO.	DESCRIPTION
01	LOCATION PLAN VICINITY MAP KEY PLAN SHEET CONTENTS
02	BLOW-UP PLAN
03	BILLBOARD FRAME DETAILS DETAIL OF FENDER AT BERTH 6-9 (600D x 1200W x 2300L HV-TYPE FENDER) BLOW-UPDETAIL-01
04	SUMMARY OF DAMAGED RUBBER DOCK FENDER SCHEDULE OF ANCHOR BOLT

01.3 **SHEET CONTENTS**
SCALE 1:NTS METERS



01.4 **KEY PLAN**
SCALE 1:1200 METERS

PHILIPPINE PORTS AUTHORITY

PREPARED BY:	CHECKED AND RECOMMENDING APPROVAL BY:	APPROVED BY:
LOY JOHANNE L. BEDICO CONSTRUCTION FOREMAN A	GARY LEE L. ANGHAG ACTING ESD MANAGER	ANALEE G. AGUILA ACTING PORT MANAGER

OWNER: ANALEE G. AGUILA, ACTING PORT MANAGER

PROJECT TITLE: REPAIR AND MAINTENANCE OF 35 UNITS RUBBER DOCK FENDERS AT BERTHS 6 TO 9 SASA WHARF, DAVAO CITY

LOCATION: SASA PORT AREA, KM. 10. SASA, DAVAO CITY

SHEET CONTENTS: LOCATION PLAN, VICINITY MAP, SHEET CONTENTS

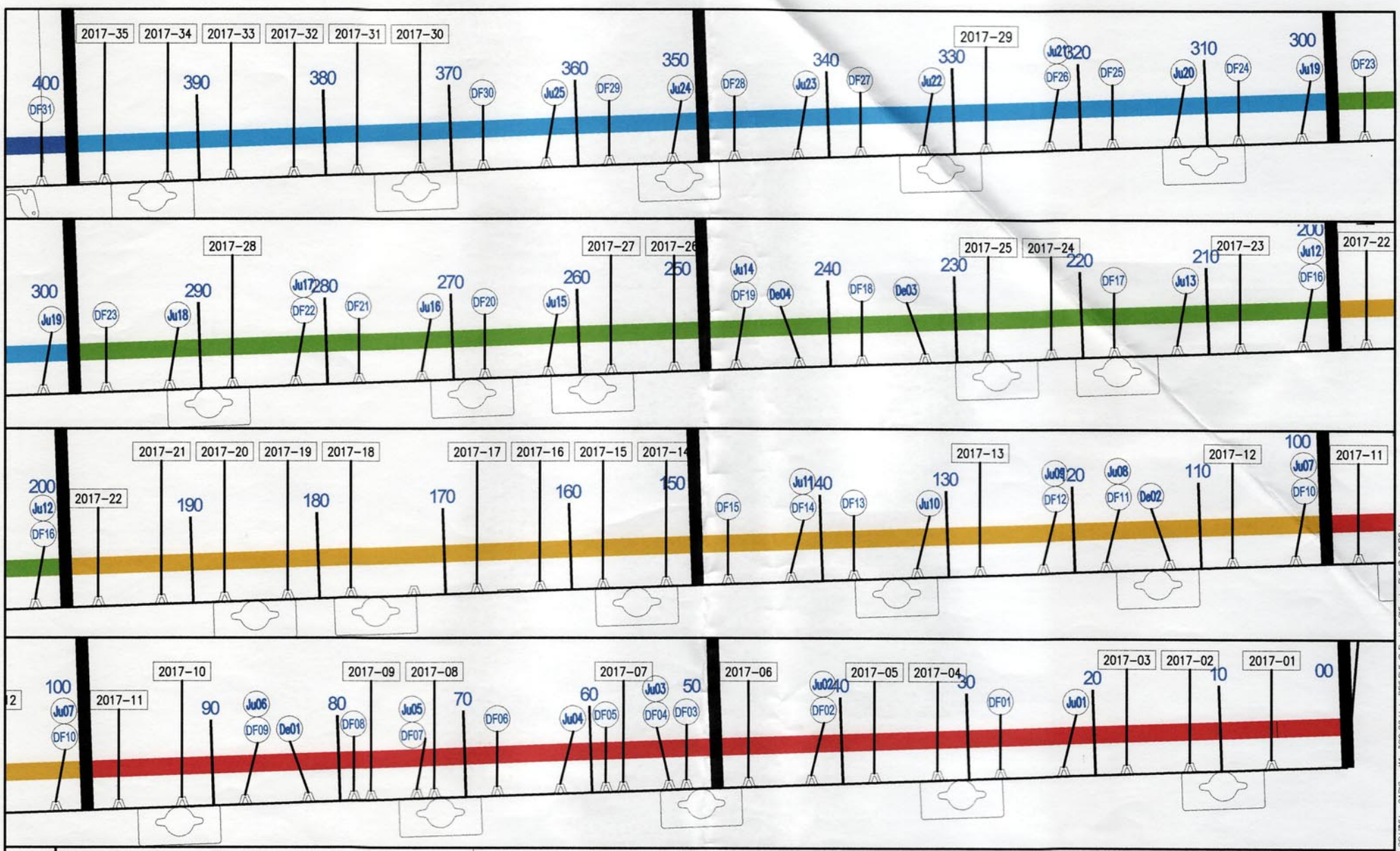
REVISIONS		
DATE	REMARKS	
-	-	
ADDENDUM		
NO.	-	
PROJECT	-	
DATE	-	
DRAWN	-	

SHEET NO. 01 OF 4

CADD BY: LJBEDICO
DATE DRAWN: 08-21-17
DATE UPDATED: 08-29-17

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CAD FILE: J:\ODO ESD Files\ESD-Files-2017\Files-CADSasa Wharf\ODO-36 Units RDF Ph5 @ Berth 6-9\Fender Ph5 @ B6-B9.dwg
PLOTTED DATE: Aug 29, 2017 - 5:13pm



02.1 **BLOW-UP PLAN**
SCALE 1: 300 METERS

Juf - NO. OF DAMAGED FENDERS REPALCED/FUNDED/COMPLETED CY 2014/23 JUNE 2015

Def - NO. OF DAMAGED FENDERS REPALCED/FUNDED/COMPLETED CY 2015/18 DECEMBER 2015

2017# - NO. OF DAMAGED FENDERS (ON-GOING CONSTRUCTION)

DF# - NO. OF DAMAGED FENDERS TO BE REPLACED FOR CY 2017

PHILIPPINE PORTS AUTHORITY

PREPARED BY:
LOY JOHANNE L. BEDICO
CONSTRUCTION FOREMAN A

CHECKED AND RECOMMENDING APPROVAL BY:
GARY LEE L. ANGHAG
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APPROVED BY:
ANALEE G. AGUILA
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OWNER:
ANALEE G. AGUILA
ACTING PORT MANAGER

PROJECT TITLE:
REPAIR AND MAINTENANCE OF 21 UNITS RUBBER DOCK FENDERS AT BERTHS 6 TO 9 SASA WHARF, DAVAO CITY

LOCATION:
SASA PORT AREA, KM. 10. SASA, DAVAO CITY

SHEET CONTENTS:
BLOW-UP PLAN

REVISIONS

DATE	REMARKS
-	-

ADDENDUM

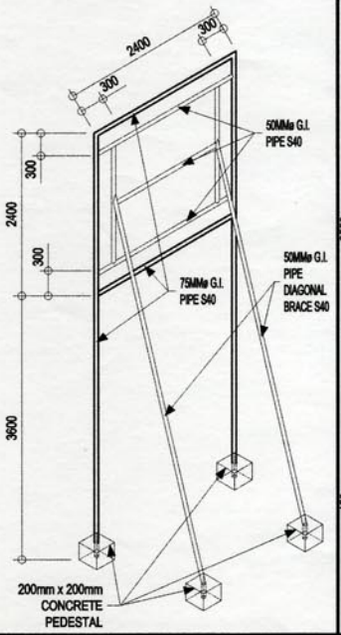
NO.	-
PROJECT	-
DATE	-
DRAWN	-

SHEET NO. 02 OF 4

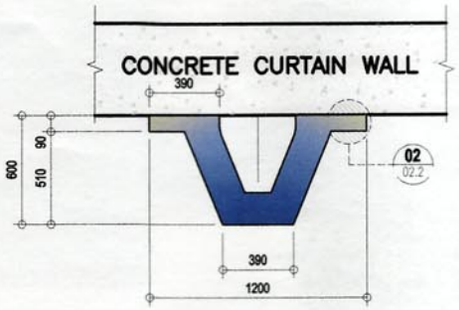
CADD BY: L.BEDICO
DATE DRAWN: 08-21-17
DATE UPDATED: 08-29-17

CAD FILE: JICA-ESD Files\ESD-Files-2017\Files-CAD\Sasa Wharf\00-38 Units RDF Ph5 @ Berth 6-9\Fender Ph5 @ BG-BG.dwg
PLOTTED DATE: Aug 29, 2017 - 5:13pm

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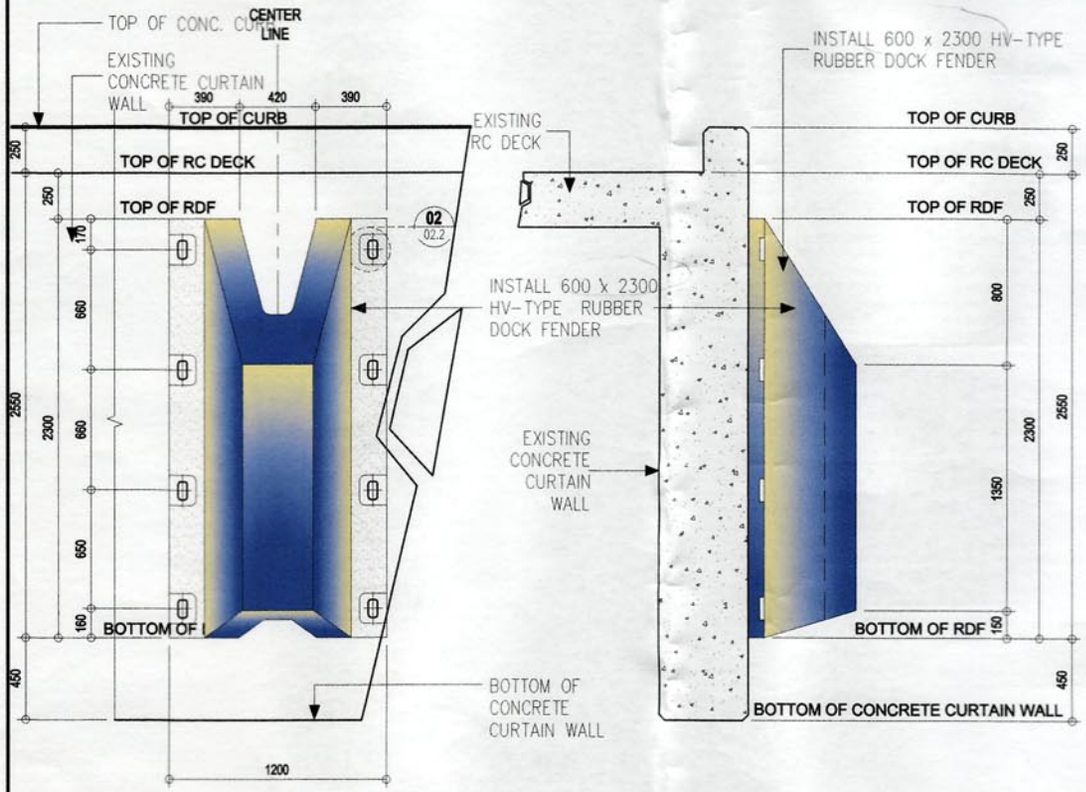


03.1 **BILLBOARD FRAME DETAILS**
SCALE 1:200 METERS

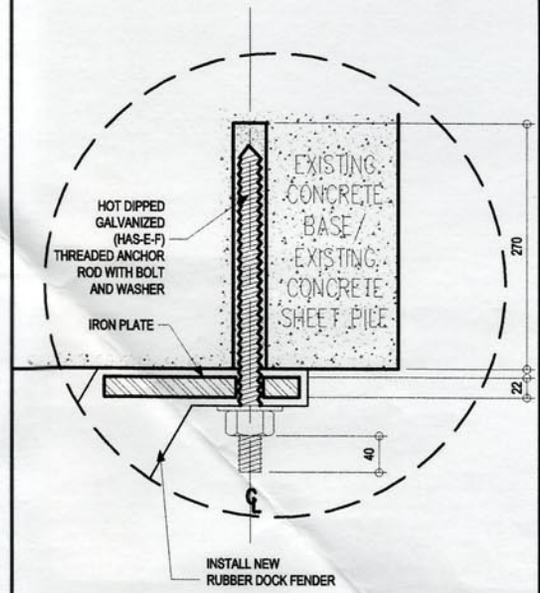


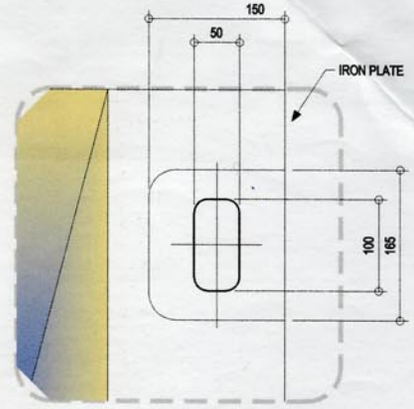
PERFORMANCE CHARACTERISTIC OF 600H (HV-Type)

AT RATED DEFLECTION OF FENDER (45%)		
HULL PRESSURE	REACTION FORCE	ENERGY ABSORPTION
TON/M^2	TON	TON-M
200-300	51.30 (max.)	10.30 (min.)



03.2 **DETAIL OF FENDER AT BERTH 6-9 (600 x 1200 x 2300 (L) HV-TYPE FENDER)**
SCALE 1:20 METERS





03.3 **BLOW-UP DETAIL-01**
SCALE 1:6 METERS

PHILIPPINE PORTS AUTHORITY

PREPARED BY:
LOY JOHANNE L. BEDICO
CONSTRUCTION FOREMAN A

CHECKED AND RECOMMENDING APPROVAL BY:
GARY LEE L. ANGHAG
ACTING ESD MANAGER

APPROVED BY:
ANALEE G. AGUILA
ACTING PORT MANAGER

OWNER:
ANALEE G. AGUILA
ACTING PORT MANAGER

PROJECT TITLE:
REPAIR AND MAINTENANCE OF 21 UNITS RUBBER DOCK FENDERS AT BERTHS 6 TO 9
SASA WHARF, DAVAO CITY

LOCATION:
SASA PORT AREA, KM. 10.
SASA, DAVAO CITY

REVISIONS

NO.	DATE	REMARKS
-	-	-
ADDENDUM		
NO.	-	
PROJECT	-	
DATE	-	
DRAWN	-	

SHEET NO. 03 OF 4

SHEET CONTENTS:
BILLBOARD FRAME DETAILS
DETAIL OF FENDER-03 AT BERTH 6-9 (500 x 1500 x 1750mmL HV-TYPE FENDER)
BLOW-UPDETAIL-01

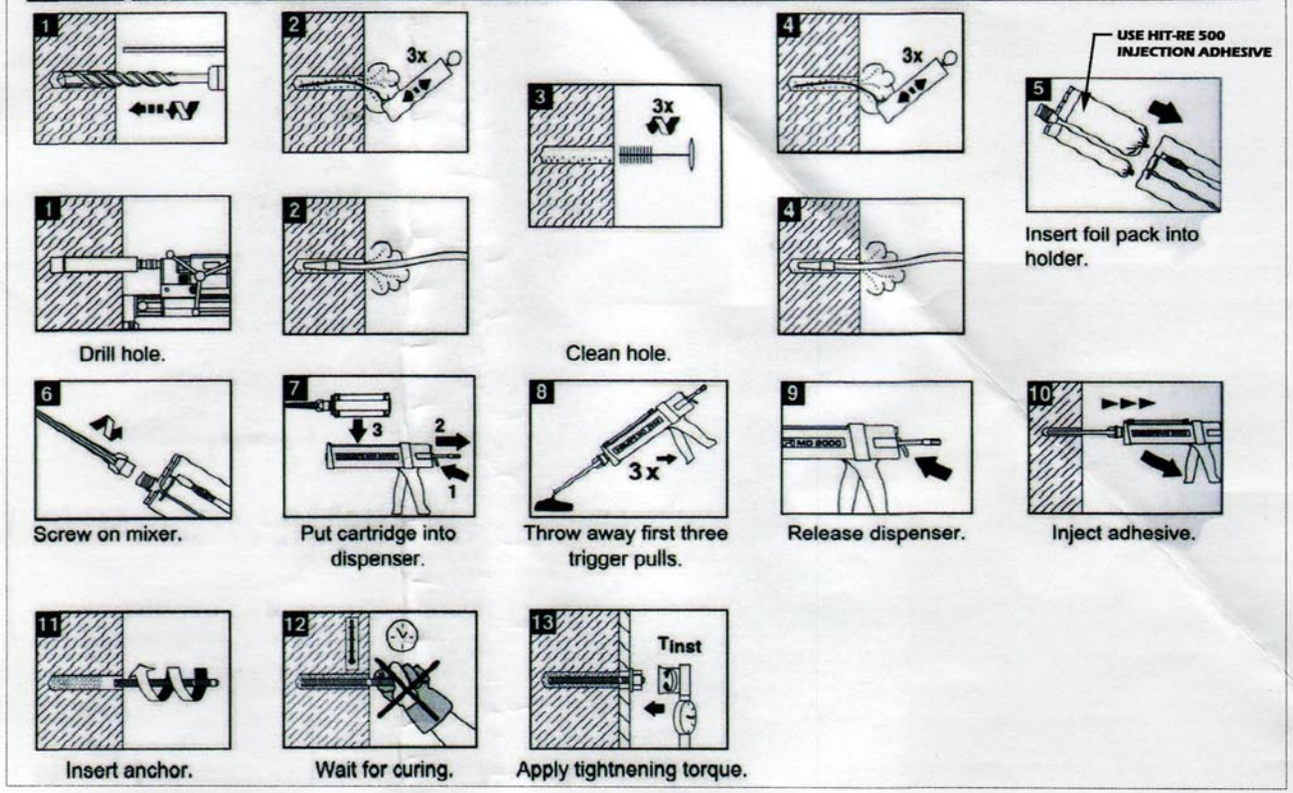
CADD BY: L.BEDICO
DATE DRAWN: 08-21-17
DATE UPDATED: 08-29-17

CAD FILE: J:\JOO-ESD Files\ESD-Files-2017\Files-CAD\Sasa Wharf\00-36 Units RDF Ph5 @ Berth 6-9\Fender Ph5 @ B6-B9.dwg
PLOTTED DATE: Aug 29, 2017 - 5:15pm

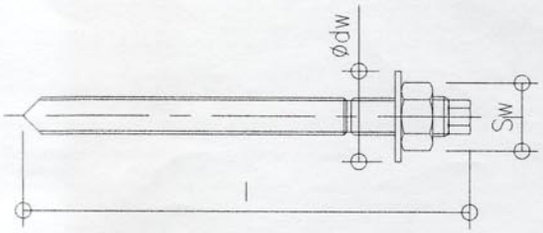
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TYPE OF FENDER	BERTH NO.	STATION NO.	DAMAGED RDF
500(d) x 1200(w) x 2300mm(L) EXISTING HV-TYPE FENDER	BERTH - 6	10 - 20	1
		30 - 40	—
		40 - 50	1
		50 - 60	3
		60 - 70	1
		70 - 80	2
		80 - 90	1
		90 -100	—
	BERTH - 7	100 - 110	1
		110 - 120	1
		120 - 130	1
		130 - 140	1
		140 - 150	2
		150 - 160	—
		160 - 170	—
		180 - 190	—
		190 - 200	—
	BERTH - 8	200 - 210	1
		210 - 220	1
		220 - 230	—
		230 - 240	1
		240 - 250	1
		250 - 260	—
		260 - 270	1
		270 - 280	1
		280 - 290	1
		290 - 300	1
	BERTH - 9	300 - 310	1
		310 - 320	1
		320 - 330	1
		330 - 340	1
		340 - 350	1
		350 - 360	1
		360 - 370	1
		370 - 380	—
		380 - 390	—
		400 - 405	1
	TOTAL		31

Setting operations



HOT DIPPED GALVANIZED (HAS-E-F) THREADED ANCHOR ROD		M30x270/70
l (mm)	ANCHOR LENGTH	380
Sw (mm)	WIDTH ACROSS FLATS	46
dw (mm)	WASHER DIAMETER	56



04.1 **SUMMARY OF DAMAGED RUBBER DOCK FENDERS**
SCALE 1:NTS METERS

04.2 **SCHEDULE OF ANCHOR BOLT**
SCALE 1:NTS METERS

PHILIPPINE PORTS AUTHORITY

PREPARED BY:	CHECKED AND RECOMMENDING APPROVAL BY:	APPROVED BY:
LOY JOHANNE L. BEDICO CONSTRUCTION FOREMAN A	GARY LEE L. ANGHAG ACTING ESD MANAGER	ANALEE G. AGUILA ACTING PORT MANAGER

OWNER: ANALEE G. AGUILA, ACTING PORT MANAGER

PROJECT TITLE: REPAIR AND MAINTENANCE OF 31 UNITS RUBBER DOCK FENDERS AT BERTHS 6 TO 9 SASA WHARF, DAVAO CITY

SHEET CONTENTS: SUMMARY OF DAMAGED RUBBER DOCK FENDER; SCHEDULE OF ANCHOR BOLT

LOCATION: SASA PORT AREA, KM. 10. SASA, DAVAO CITY

REVISIONS		
NO.	DATE	REMARKS
-	-	-
ADDENDUM		
NO.	-	
PROJECT	-	
DATE	-	
DRAWN	-	

SHEET NO. 04 OF 4

CADD BY: LJBEDICO
DATE DRAWN: 08-21-17
DATE UPDATED: 08-29-17

CAD FILE: JADO-ESD Files\ESD-Files-2017\Files-CADD\Sasa Wharf\DO-30 Units RDF Ph5 @ Berth 6-9\Fender Ph5 @ BC-B9.dwg
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