

NON CONFORMANCE REPORT

Non Conformance Report	: Kesalahan Pembelian Material Pekerjaan "Frame Lube Oil Cooler C1-A"	No.	: 003/NC-BB/IX/2014
Departement/Supplier	: Project Dept "Maintenance"	Prod. Code	: J138
Originator/Requestor	: Engineering Sign :	Date	: 05-Sep-14

Detail of Nonconformity:

Ditemukan perbedaan antara material yang tercantum dalam BOM Engineering dengan MR yang dibuat oleh project. Bagian PMC membuat MR pemesanan material Steel Channel UNP 150 x 75 berdasarkan acuan CTR atas request Project Maintenance dimana material yang seharusnya dibeli adalah Steel Channel UNP 75 x 40 sesuai acuan sket lapangan yang disahkan dalam gambar dan BOM dari Engineering. Hal ini menyebabkan pihak fabrikasi tidak dapat melakukan proses fabrikasi karena material yang tersedia tidak sesuai dengan gambar yang berlaku.

Root Cause : Tidak adanya koordinasi dari pihak Project Maintenance ke pihak PMC dan Engineering terkait perbedaan material yang ada di CTR dan sket gambar lapangan.

Approved by	:	Ruswan Tanor
Signature	:	
Date	:	08-Sep-14

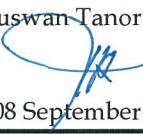
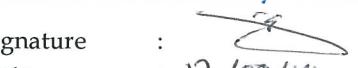
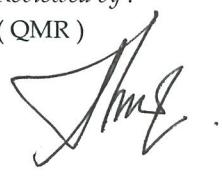
Disposition :

■ Corrective Action Recommendation:

1. Bersama - sama dengan Engineering melakukan review gambar terkait penentuan material steel Channel yang digunakan untuk fabrikasi dengan mempertimbangkan interface terhadap struktur lain.
2. Bagian PMC mengajukan permintaan revisi gambar single part ke Dept Engineering agar menyesuaikan material yang sudah dibeli (Steel Channel UNP 150 x 75).
3. Fabrikasi dilakukan sesuai dengan single part drawing yang sudah direvisi oleh Engineering.

■ Preventive Action Recommendation:

1. Melaksanakan meeting bersama dengan MR, PMC, Engineering, dan Commercial untuk menentukan mekanisme acuan pembelian material diluar prosedur yang telah ditetapkan (pemesanan material sebelum BOM & gambar diturunkan).

Dispositioner : Dheo E. Melde Signature :  Date : 08 September 2014	Approved by : Ruswan Tanor Signature :  Date : 08 September 2014	Completion Date : 17-Sep-14
Closed by : Yussatriw Taya. (Quality Department) Comment : <u>Attachment Closing</u> . - Revisi gambar No. F138-S-4-329 rev 1 - BOM No. BM/BJU-BPN/E/075 - Transmittal No. 027/DR-BB/E/1x/2019 - Retrieval No. 112/DT-BB/E/1x/2019 - NOM tanggal 17 Sept 2019	Signature :  Date : 17/09/14. Cost : ± Rp. 61.863	Reviewed by : (QMR)  Date : 17 Sept 14

Distribution : 1. Originator (Original)
2. Quality Department

3. Branch Manager
4. Dispositioner

NCR COSTS MEASUREMENT

NCR No.	:	003/NC-BB/XI/2014	Date	:	05-Sep-14
Project Name	:	-	Project Code	:	J138
Title	:	Kesalahan pembelian material Channel untuk pekerjaan "Frame Lube Oil Cooler C1-A"			
Start	:	-	Completion	:	-
Target	:	-	Delay	:	- days

Processing time (duration) 1 hari

Man Power

Position	Qty	Working Hours	Salary/hour	Total Salary
Quality Control	1 person	0,5 jam		
Warehouse	1 person	0,5 jam		
Drafter	1 person	0,5 jam		
Operator Forklift	1 person	0,5 jam		
Man Power Costs				Rp 33.239

Material & Consumable

Material	Qty	Price	Total Cost
ATK	1 lot	Rp 10.000	Rp 10.000
Solar	1 liter	Rp 13.000	Rp 13.000
Material & Consumable Costs			Rp 23.000

Equipment & Machine

Machine	Qty	Time duration	Fuel Costs	Fuel Costs
Equipment & Machine Costs			Rp -	

menggunakan listrik
incls. dlm overhead

Overall Rework Costs :

Man Power	Rp 33.239
Material	Rp 23.000
Mesin & Equipment	Rp -
Overhead 10%	Rp 5.624
Total Costs	Rp 61.863

Note :

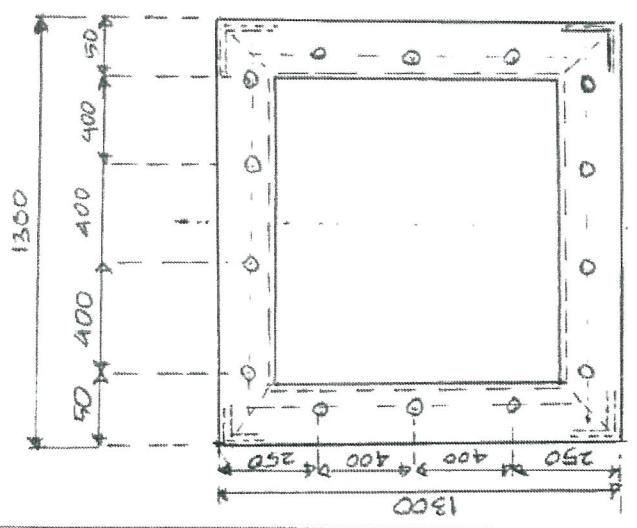
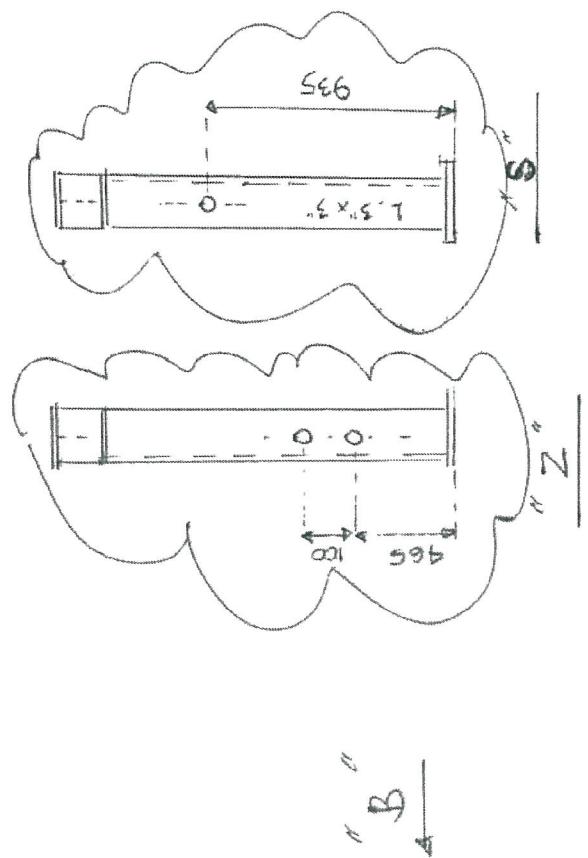
Prepared by, <i>Ilham Sunyoto</i>	Review by, Ilham Sunyoto Quality Coordinator	Approved by, Yussatriajaya Head of Quality Dept.
Quality Control		

CRF & SKET GAMBAR LAPANGAN .

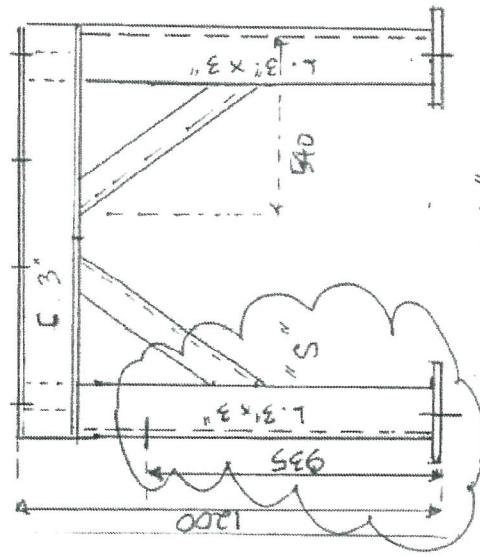
BUKAKA PT. BUKAKA TEKNIK UTAMA Jln. Mulawarman KM 21 Manggar, Balikpapan, Kalimantan Timur - Indonesia 76116 Tlp : +62-542-743 312 (Hunting), Fax : +62-542-743 319 E-mail : bukakabp@bukaka.com		PT. BUKAKA TEKNIK UTAMA Balikpapan Workshop & Office Jln. Mulawarman KM 21 Manggar, Balikpapan, Kalimantan Timur - Indonesia 76116 Tlp : +62-542-743 312 (Hunting), Fax : +62-542-743 319 E-mail : bukakabp@bukaka.com		CRF ID : 050-0814 DATE : 10 AUGUST 2014 CUSTOMER : CHEVRON - MAINTENANCE PROJECT CODE : J-138 PROD. CODE : J138B007	
CUSTOMER REQUEST FORM (CRF)					
END USER (KLIEN/PEMESAN)	NAME : Mr. RUSWAN TANOR DEPARTMENT : PROJECT MAINTENANCE POSITION : PROJECT MANAGER		REF. : SR 1254938 DATE : JUNE 16, 2014 OTHERS :		
	JOB TITLE / DESCRIPTION (URAIAN/JUDUL PEKERJAAN)	FABRICATION FRAME LUBE OIL COOLER C1-A SOUTH AREA			Qty = 1 LOT
ORDER SCOPE (TIPE PEKERJAAN)	<input type="checkbox"/> DESIGN		Schedule : BY CHEVRON		
	<input checked="" type="checkbox"/> DRAWING		Schedule : 14-Agu-14		
	<input checked="" type="checkbox"/> INSPECTION & TEST PLAN (ITP)		Schedule : 14-Agu-14		
	<input checked="" type="checkbox"/> MATERIAL		Schedule : 19-Agu-14		
	<input checked="" type="checkbox"/> FABRICATION		Schedule : 20/08/2014 - 22/08/2014		
	<input checked="" type="checkbox"/> TESTING		Schedule : 23/08/2014		
	<input checked="" type="checkbox"/> BLASTING		Schedule : 24/08/2014 - 27/08/2014		
	<input checked="" type="checkbox"/> PAINTING		Schedule : 24/08/2014 - 27/08/2014		
	<input type="checkbox"/> INSTALLATION (WS/ON SITE)		Schedule :		
	<input checked="" type="checkbox"/> DELIVERY		Schedule : 28-Agu-14		
<input type="checkbox"/> OTHERS		Schedule :			
DRAWING/SKETCH (GAMBAR/SKET)	BY CHEVRON (Attachment sketch)				
SUPPLIED MATERIAL (PENGADAAN MATERIAL)	All material, Fabrication, Painting, Delivery to Point (Onshore) will be Provided by Bukaka				
OTHERS TERMS & CONDITION (INSTRUKSI PENTING LAINNYA)	NOTE: PAINTING FINISH COLOR : FOLLOW ITP INSTRUCTION COATING SYSTEM : FOLLOW ITP INSTRUCTION NDT BY CONSTRUCTION CVX				
Internal Distribution :		Sign Received :		Prepared by :	
Project Manager		<input checked="" type="checkbox"/>		 BAMBANG HARI SAPTAADI	
Engineering		<input checked="" type="checkbox"/>		 MUSLIMIN SANAFI	
Procurement		<input checked="" type="checkbox"/>		 Branch Manager	
Quality		<input checked="" type="checkbox"/>		 Approved by :	
HSE		<input type="checkbox"/>		 Approved by :	
PMIC / Planner		<input checked="" type="checkbox"/>		 Approved by :	
HRD		<input type="checkbox"/>		 Approved by :	
Maintenance		<input type="checkbox"/>		 Approved by :	
File (Original)		<input checked="" type="checkbox"/>		 Approved by :	

NO BILL OF MATERIAL

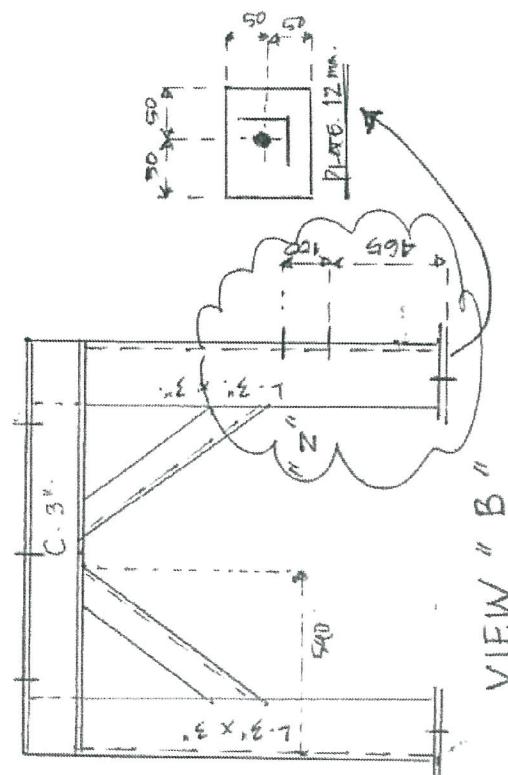
- 1 ANGLE 3" x 3".
- 2 CHANNEL 3".
- 3 PLATE / BASE PLATE 12 m.
- 4.



VIEW "A"



VIEW "A"



VIEW "B"

WO. 2904239

DUG

FRAME LUBE OIL
COOLER C 1-A -

BUKAKA

MATERIAL / SERVICE REQUEST

MR/SR : R.BPN/14/08/D053

Date : 13-Aug-2014

Proj. Code : J138

Prod. Code : J138B007

NO	DESCRIPTION	SPEC	QTY	DATE IN USE	TO BE USE	PROD CODE	REMARKS
	Steel Angle 75 x 75 x 6 mm - 6 m 55400 /ASTM A36		3	PCS	15/08/14	J138B007	MAINTENANCE PROJECT
	Steel Channel UNP 150 x 75 x 10 - 6 m ASTM A36		1	PCS	15/08/14		SR 1254938
	6.5 ✓	Xxxxxxxxxxxxxxxxxxxxxxx					

NOTE : FABRICATION OF FRAME LUBE OIL COOLER C-1-A (SR 1254938)

Request by

Passed by

Approved by

Name : Yudhi M
Date : 13-Aug-2014Name : Noormansyah
Date : 18-Aug-2014Name : Ruswan T
Date : 13-Aug-2014

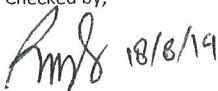
White (Original) : Purchasing

Red : PPIC

Blue : User

BUKAKA PT. BUKAKA TEKNIK UTAMA ENGINEERING DEPARTMENT		BILL OF MATERIAL FRAME LUBE OIL COOLER C1-A								No. : BM/BTU-BPN/E/075 Project Code : J-138 Revision : 0 No. of Pages : 1 of 1 Date : 18-Aug-14		
		No. Drawing : F138-S-4-329 Created By : YH		Area / Location : SOUTH AREA Customer : CICo								
NO	DESCRIPTION	SIZE		UNIT	WEIGHT		QTY	T.W (Kg)	T.Lgh (M)	P.A	T.P.A.	DRAWING NO.
		Spec	thk	width	lgh		Unit Weigth	Unit Weight				F138-S-4-329
	L 75X75X4,5	ASTM A-36						77,405	11,300	0,000	0,000	
1	L 75X75X4,5	0,005	0,050	1,125	M	6,85	7,706	4	30,825	4,500		
2	L 75X75X4,5	0,005	0,050	0,850	M	6,85	5,823	8	46,580	6,800		
	L 75X75X4,5	3 LENGTHT						35,984	5,200	0,000	0,000	
	C 75X40X5	ASTM A-36										
3	C 75X40X5	0,005	0,040	1,300	M	6,92	8,996	4	35,984	5,200		
	C 75X40X5	1 LENGTHT						3,768	0,040	0,000	0,000	
	PLATE 12MM	ASTM A-36										
4	PLATE 12MM	0,012	0,100	0,100	M	7850,0	0,942	4	3,768	0,040		
	PLATE 12MM	1 SHEET										
	BOLTING M.12 - 50mm LENGTH	ASTM A-36						0,000	0,000	0,000	0,000	
	BOLTING M.12 - 50mm LENGTH	0,000	0,050	M	0,000	0,000	21	0,000	0,000			
	BOLTING M.12 - 50mm LENGTH	21	EA									
					WT TOTAL	117,157	KG					

NB:

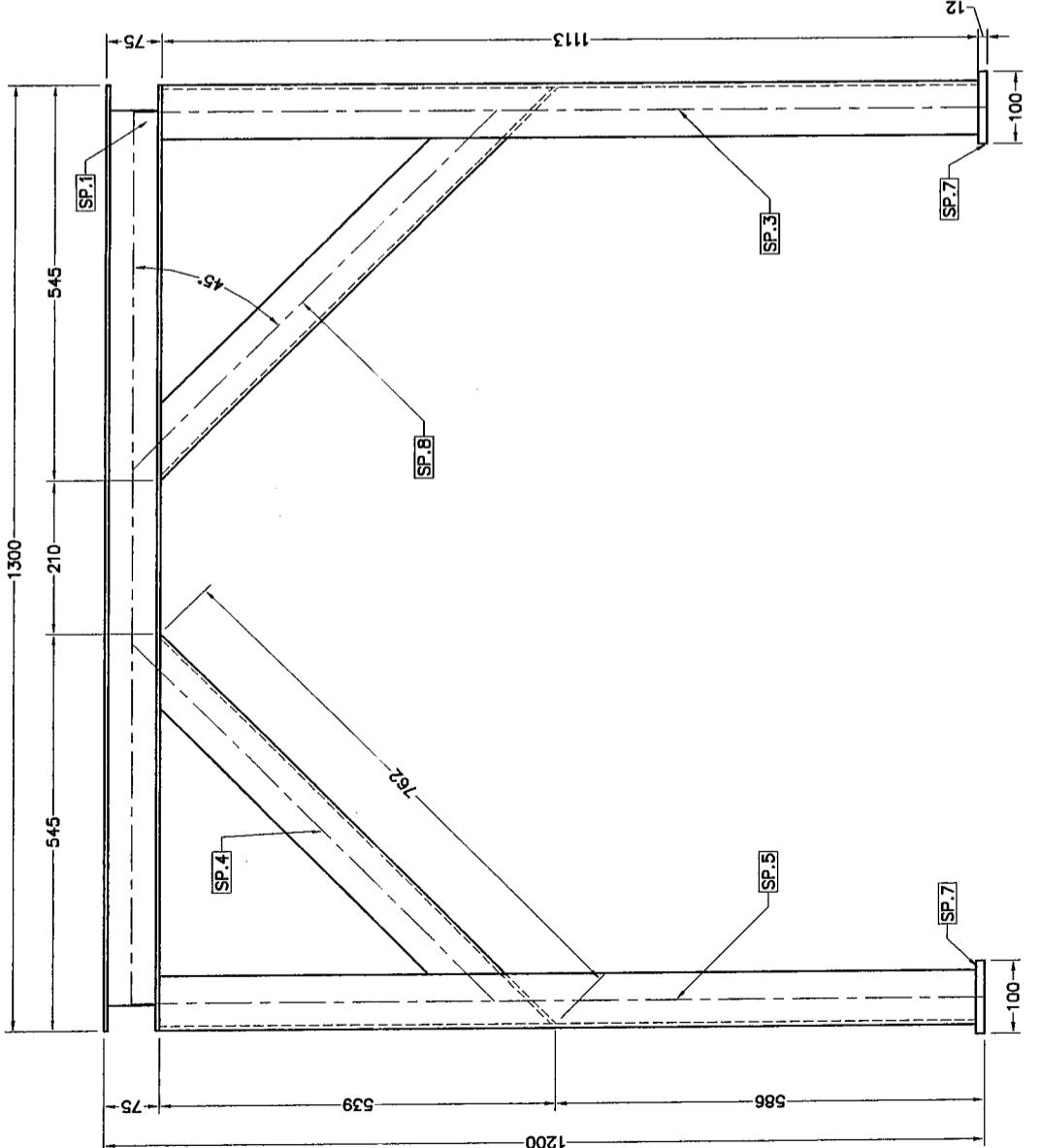
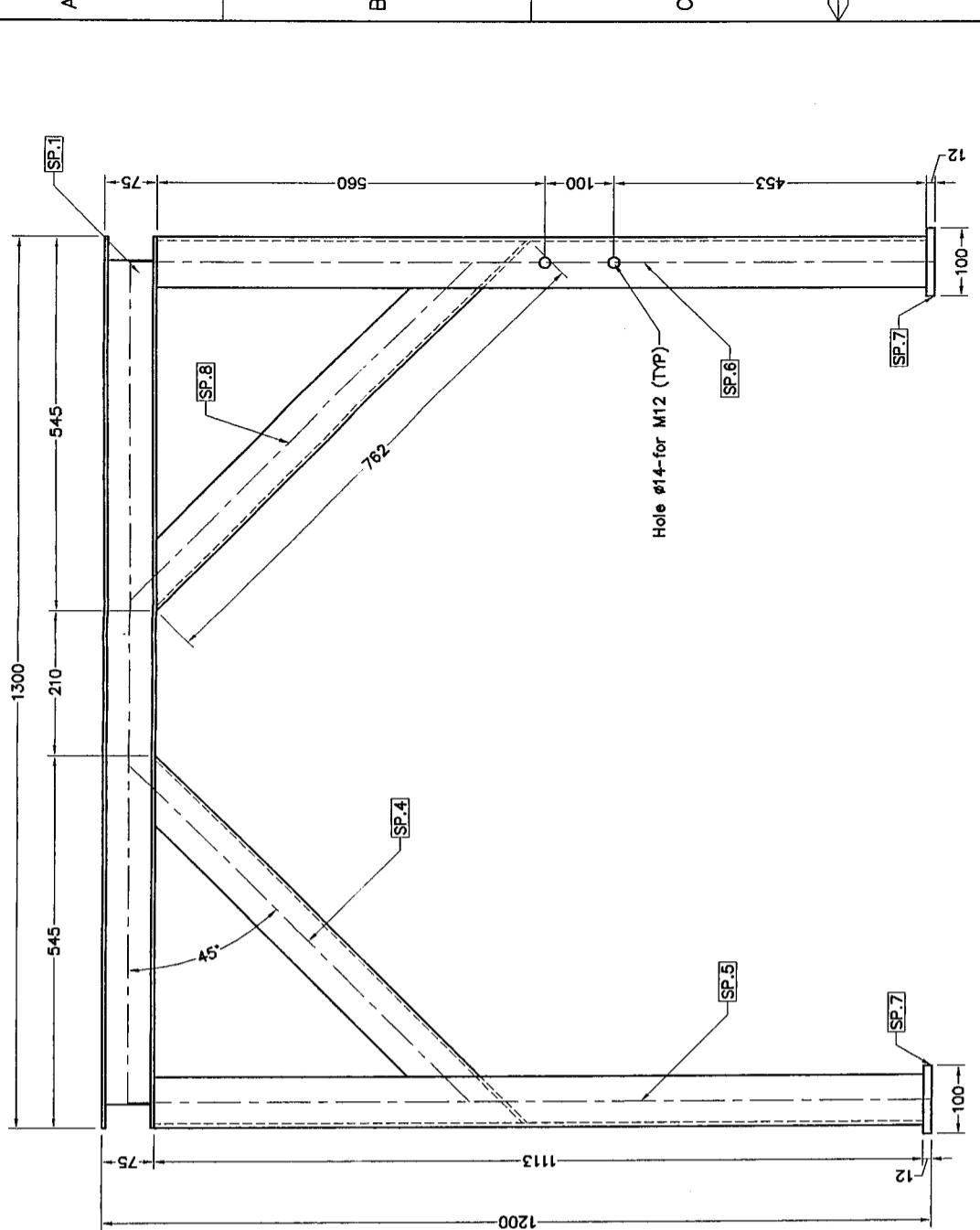
Checked by,

Rano Susandi

Approved by,

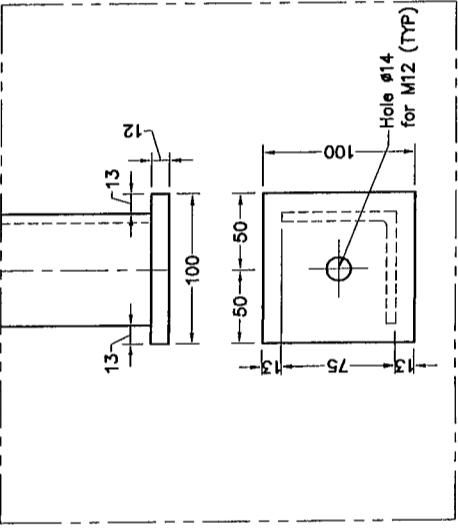
M. Taufiq Firdaus

Spec Channel yg di MR ukuran 150x75

R.BPN/19/08 (0053)



VIEW C (RIGHT)
SCALE 1:10



VIEW B (LEF) -
SCALE 1:10

UNIT USAHA BERSAMA IKAPAN
DOCUMENT CONTROL CENTRE

ORIGINAL
18 AUG 2004

بِهِمَا نَحْنُ سَعَى

PT. BUKAKA TEKNIK UTAMA Tbk.
BALIKPAPAN BRANCH OFFICE & WORKSHOP
ENGINEERING DEPARTMENT
Jl. Lawirmann, Km. 21 Menger - BALIKPAPAN, INDONESIA
Telp. 0542-743312 (Rumting), Fax. 0542-743333
Email Address: bukakabp@bukaka.com

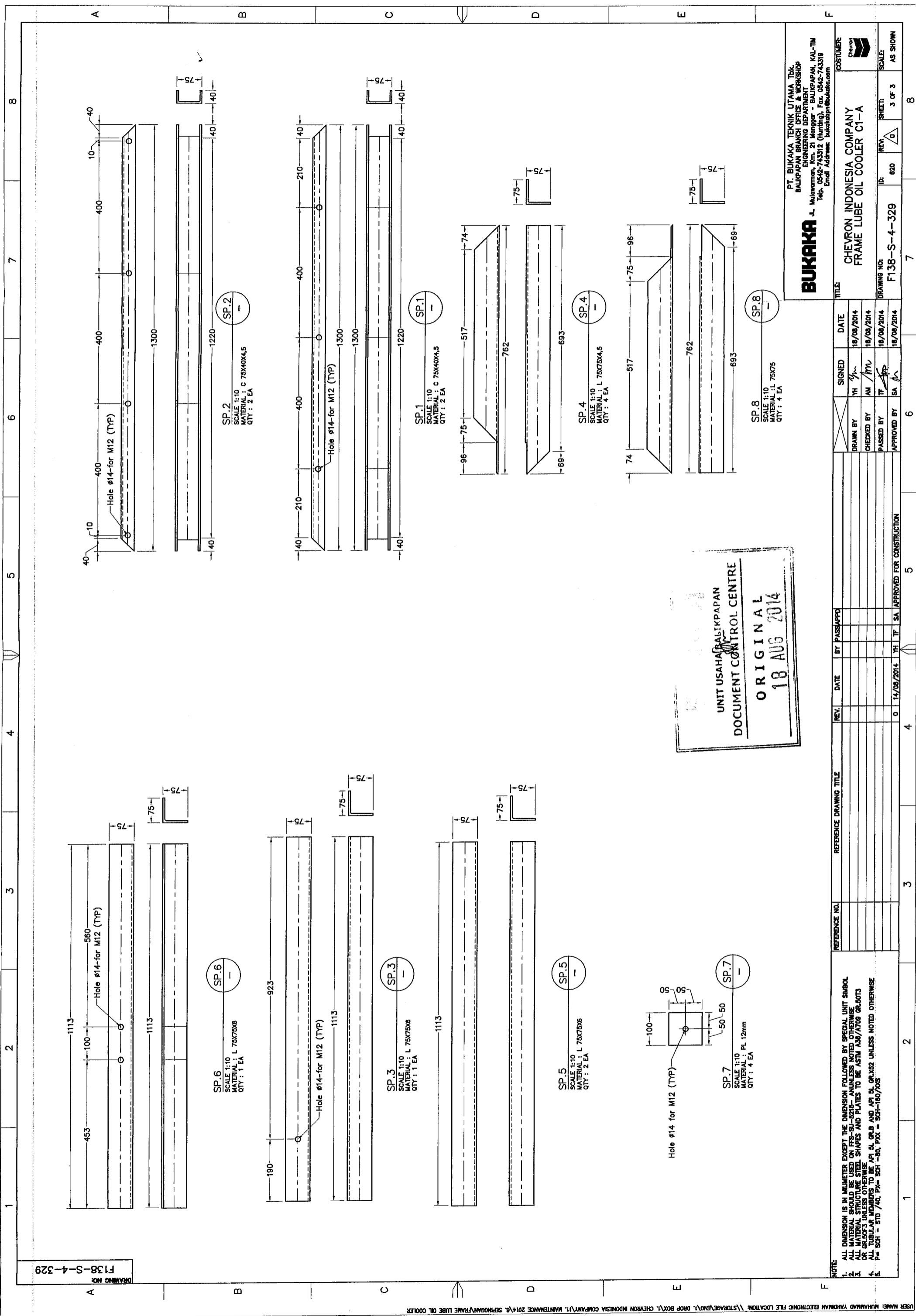
COSTUMER:		AS SHOWN	
		SCALE:	
INDONESIA COMPANY OIL COOLER C1-A LE PART		SHEET:	2 OF 3
ID:	REF#:		
6220	0		

		TITLE		CHEVRON INDONESIA COMPANY		COSTUMER:	
		FRAME LUBE OIL COOLER C1-A					
		SINGLE PART					
				DRAWING NO:	F138-S-4-329	101	REV. SHEET:
SIGNED	DATE				620	0	2 OF 3
DRAWN BY	18/08/2014						AS SHOWN
CHECKED BY	18/08/2014						
PASSED BY	18/08/2014						
APPROVED BY	18/08/2014						

REFERENCE NO.

NOTE: ALL DIMENSION IS IN MILLIMETER EXCEPT THE DIMENSION FOLLOWED BY SPECIAL UNIT SYMBOL.
ALL MATERIAL SHOULD BE USED ON FFS-SU-5215 - UNLESS NOTED OTHERWISE.
ALL MATERIAL STRUCTURE STEEL SHAPES AND PLATES TO BE ASTM A36/A708 OR 50T3
OR GR.50T3 UNLESS OTHERWISE.
ALL TURBINE MEMBERS TO BE API 5L GP-5L AND API 5L OR 5L2 UNLESS NOTED OTHERWISE.
P, SCH = STD /4S, PK = SCH
P, SCH = STD /4S, PK = SCH

F138-S-4-329



EMAIL PERMINTAAN REVISI GAMBAR

Hesti Mugiastuti

From: Nurhamsari <sari@eng.bukakabalikpapan.com>
Sent: 05 September 2014 13:49
To: Hesti Mugiastuti
Subject: FW: Revisi Drawing Frame Lube Oil

Mba Hes, FYI ☺

Best Regards,

Nurhamsari
Document Controller Engineering

From: Muhammad Yahdiman [mailto:yahdiman@eng.bukakabalikpapan.com]
Sent: 05 September 2014 14:39
To: 'Deo Firstocbera Melde'; 'normansyah'; 'Taufik Firdaus'
Cc: ruswan_tanor@bukakabalikpapan.com; nicken.pratiwy@btubpn.com; 'Syamsuwar Andi'; 'zaini'; bambanghari@bukakabalikpapan.com; Nurhamsari
Subject: RE: Revisi Drawing Frame Lube Oil

Assalamualaikum wr. Wb.

Mas Deo,

Dalam kasus ini, seluruh spesifikasi teknis yang tertuang dalam sketsa yang diberikan sebagai acuan kami untuk menggambar telah sesuai dengan

Sketsa tersebut.

Berdasarkan hasil diskusi kita tadi dengan mas norman, disimpulkan bahwa pada saat Material Request terjadi kekeliruan

Antara material yang di request dengan spesifikasi dengan dokumen (gambar & BOM) yang diturunkan oleh Dept. Engineering sehingga material yang datang pun berbeda dengan yang seharusnya.

Mengeluarkan gambar revisi pada kasus ini saya rasa tidak tepat. dikarenakan mengeluarkan gambar revisi, berarti ada kesalahan pada gambar awal. Sementara pada kasus ini gambar awal telah sesuai dengan gambar sketsa referensi.

Untuk langkah selanjutnya maka kami dari pihak Engineering akan mengeluarkan NCR sesuai mekanisme yang ada.

Wassalamualaikum Wr.Wb

Best regards

Muhammad Yahdiman S
Jr. Engineer

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Balikpapan | Your Preferable Partner
Engineering, Fabrication, Construction and
Onshore & Offshore Services
Jl. Mulawarman KM 21 Manggar
Telp : 0542 - 743 312 (hunting)
Fax : 0542 - 743 319
Mobile : 0852-5525-8893
Keep On Fighting Till The End, We Are The Champion

From: Deo Firstocbera Melde [mailto:deo@ppic.bukakabalikpapan.com]
Sent: 05 September 2014 14:04
To: 'normansyah'; 'Muhammad Yahdiman'; 'Taufik Firdaus'
Cc: ruswan_tanor@bukakabalikpapan.com; nicken.pratiwy@btubpn.com; 'Syamsuwar Andi'; 'zaini'; bambanghari@bukakabalikpapan.com
Subject: RE: Revisi Drawing Frame Lube Oil

iya mas,sorry my bad

THANK YOU,
BEST REGARDS,

DEO MELDE

MAINTENANCE PROJECT
SOUTH AREA COORDINATOR

"NOTHING IS TRUE EVERYTHING IS PERMITTED"

From: normansyah [mailto:noorman@bukakabalikpapan.com]
Sent: Friday, September 05, 2014 2:01 PM
To: 'Deo Firstocbera Melde'; 'Muhammad Yahdiman'; 'Taufik Firdaus'
Cc: ruswan_tanor@bukakabalikpapan.com; nicken.pratiwy@btubpn.com; 'Syamsuwar Andi'; 'zaini'; bambanghari@bukakabalikpapan.com
Subject: RE: Revisi Drawing Frame Lube Oil

Mas Deo lain kali kalau email mengacu ke email yg lama saja agar komunikasinya nyambung, thanks.

Salam
Noorman

From: Deo Firstocbera Melde [mailto:deo@ppic.bukakabalikpapan.com]
Sent: 05 September 2014 13:57
To: 'Muhammad Yahdiman'; Taufik Firdaus
Cc: ruswan_tanor@bukakabalikpapan.com; 'Bukaka Norman'; nicken.pratiwy@btubpn.com; 'Syamsuwar Andi'; 'zaini'; bambanghari@bukakabalikpapan.com
Subject: Revisi Drawing Frame Lube Oil

Mas yahdi,Mas Taufiq
Untuk drawing Frame Lube Oil tolong direvisi karena terjadi kesalahan dalm pembelian material,
Mohon revisinya di turun kan sore ini,mengingat target perkerjaan hari senin ini 8th sept 2014.

THANK YOU,
BEST REGARDS,

DEO MELDE

MAINTENANCE PROJECT
SOUTH AREA COORDINATOR

"NOTHING IS TRUE EVERYTHING IS PERMITTED"

BUKAKA

PT BUKAKA TEKNIK UTAMA
Unit Usaha Balikpapan
Jl. Mulawarman Km. 21 Manggar - Balikpapan, KAL-TIM
Telp. : 0542 - 743312 (Hunting), Fax : 0542 - 743319

DOCUMENT TRANSMITTAL

To : QA/QC	Transmittal No. : 112/DT-BB/E/IX/2014
Departement	Project Code : J134
	No. of Pages : 1 of 1
Attn : Ilham Sunyoto	Date : 05-Sep-14
PLEASE FIND THIS DOCUMENT FOR:	
<input type="checkbox"/> RECORD	<input checked="" type="checkbox"/> APPROVAL
<input type="checkbox"/> INFO	<input type="checkbox"/> CONSTRUCTION
<input type="checkbox"/> REVIEW	<input type="checkbox"/> OTHERS
CODE	
<input type="checkbox"/> ORIGINAL	<input type="checkbox"/> TRANSPERANCY
<input checked="" type="checkbox"/> COPY	<input type="checkbox"/> OTHERS
ATTACHMENT :	
<input type="checkbox"/> Drawing	
<input checked="" type="checkbox"/> BOM (Bill Of Material)	
No. of Document : 4 sheets	

As acknowledgement please return to us one receiver-signed copy of this Transmittal form

DOCUMENT DESCRIPTION

NO.	DOC. REF. NO	DOCUMENT TITLE	REVISI	REMARK
1	F138-S-4-329	FRAME LUBE OIL COOLER C1-A	1	3 sheets
2	BM/BTU-BPN/E/075	BOM FRAME LUBE OIL COOLER C1-A	1	1 sheet

Send by,Name
Date: Nurhamsari
: 05-Sep-14**Received by,**Name
Date: Ilham Sunyoto
: 05-Sep-14

BUKAKA

PT BUKAKA TEKNIK UTAMA
 Unit Usaha Balikpapan
 Jl. Mulawarman Km. 21 Manggar - Balikpapan, KAL-TIM
 Telp. : 0542 - 743312 (Hunting), Fax : 0542 - 743319

DOCUMENT TRANSMITTAL

To : PPIC	Transmittal No.	: 112/DT-BB/E/IX/2014
Department	Project Code	: J134
	No. of Pages	: 1 of 1
Attn : Noormansyah / Najib Rahman	Date	: 05-Sep-14

PLEASE FIND THIS DOCUMENT FOR:

- | | |
|--|--|
| <input type="checkbox"/> RECORD | <input type="checkbox"/> APPROVAL |
| <input type="checkbox"/> INFO | <input checked="" type="checkbox"/> CONSTRUCTION |
| <input type="checkbox"/> REVIEW | <input type="checkbox"/> OTHERS |
| CODE | |
| <input type="checkbox"/> ORIGINAL | <input type="checkbox"/> TRANSPERANCY |
| <input checked="" type="checkbox"/> COPY | <input type="checkbox"/> OTHERS |

ATTACHMENT :

- | | |
|-------------------------------------|------------------------|
| <input checked="" type="checkbox"/> | Drawing |
| <input checked="" type="checkbox"/> | BOM (Bill Of Material) |
| <input type="checkbox"/> | |

No. of Document : 4 x 3 = 12 sheets

As acknowledgement please return to us one receiver-signed copy of this Transmittal form

DOCUMENT DESCRIPTION

NO.	DOC. REF. NO	DOCUMENT TITLE	REVISI	REMARK
1	F138-S-4-329	FRAME LUBE OIL COOLER C1-A	1	3 sheets
2	BM/BTU-BPN/E/075	BOM FRAME LUBE OIL COOLER C1-A	1	1 sheet

Send by
for 06/09/2014

 Name
 Date

 : Nurhamsari
 : 05-Sep-14

Received by,

 Name : Noormansyah / Najib Rahman
 Date : 05-Sep-14

DOCUMENT RETRIEVAL

To : PPIC	Retrieval No. : 027/DR-BB/E/IX/2014
Departement	Project Code : J138
	No. of Pages : 1 of 1
Attn : Normansyah / Najib Rahman	Date : 05-Sep-14
PLEASE FIND THIS DOCUMENT FOR:	
<input type="checkbox"/> RECORD	<input type="checkbox"/> APPROVAL
<input type="checkbox"/> INFO	<input checked="" type="checkbox"/> CONSTRUCTION
<input type="checkbox"/> REVIEW	<input type="checkbox"/> OTHERS
CODE	
<input type="checkbox"/> ORIGINAL	<input type="checkbox"/> TRANSPERANCY
<input checked="" type="checkbox"/> COPY	<input type="checkbox"/> OTHERS
ATTACHMENT :	
<input checked="" type="checkbox"/> Drawing _____	
<input checked="" type="checkbox"/> Bill Of Material _____	
No. of Document : 4 x 3 = 12 sheets	

As acknowledgement please return to us one receiver-signed copy of this Retrieval form

DOCUMENT DESCRIPTION

NO.	DOC. REF. NO	DOCUMENT TITLE	REVISI	REMARK
1	F138-S-4-329	FRAME LUBE OIL COOLER C1-A	0	3 sheets
2	BM/BTU-BPN/E/075	BOM FRAME LUBE OIL COOLER C1-A	0	1 sheet

Send by,

PPIC
14
Nurhamsari

Name : Nurhamsari
 Date : 05-Sep-14

Received by,

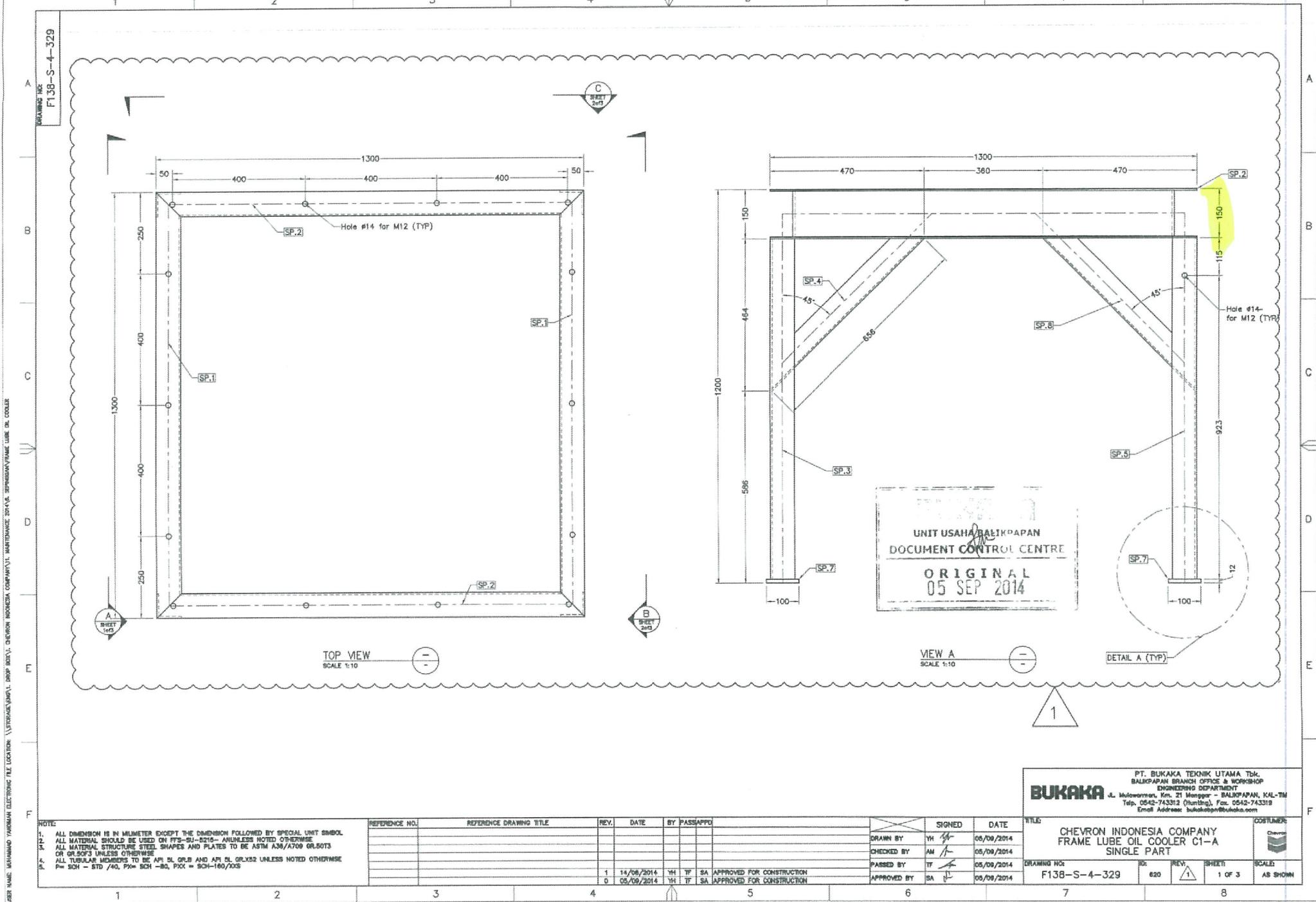
Normansyah / Najib Rahman
 05-Sep-14

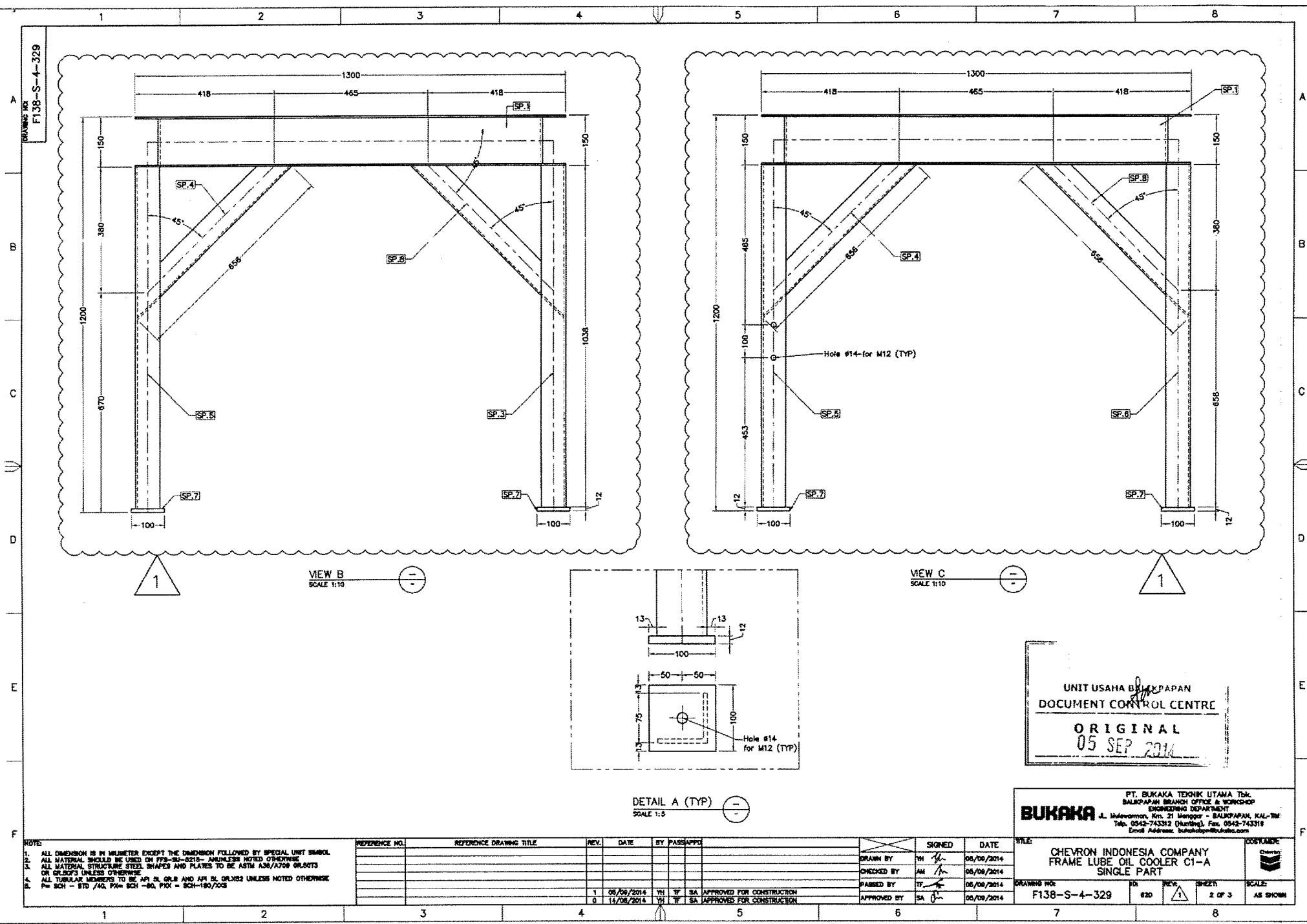
BILL OF MATERIAL

FRAME LUBE OIL COOLER C1-A

No. : BM/BTU-BPN/E/075
Project Code : J-138
Revision : 1
No. of Pages : 1 of 1
Date : 10-Sep-14

NO	DESCRIPTION	SIZE		UNIT	WEIGHT		QTY	T.W (Kg)	T.Lgh (M)	P.A	T.P.A.	DRAWING NO.		
		Spec	thk		width	lgh								
												F138-S-4-329		
	L 75X75X4,5	ASTM A-36												
1	L 75X75X4,5	0,005	0,050	1,125	M	6,85	7,706	4	30,825	4,500				
2	L 75X75X4,5	0,005	0,050	0,850	M	6,85	5,823	8	46,580	6,800				
	L 75X75X4,5	ASTM A-36		3	LENGHT									
3	C 150X75X6,5	0,005	0,040	1,300	M	18,61	24,193	4	96,772	5,200	0,000	0,000		
	C 150X75X6,5	ASTM A-36		1	LENGHT									
	PLATE 12MM	ASTM A-36												
4	PLATE 12MM	0,012	0,100	0,100	M	7850,0	0,942	4	3,768	0,040	0,000	0,000		
		PLATE 12MM		1	SHEET									
	BOLTING M.12 - 50mm LENGTH	ASTM A-36												
	BOLTING M.12 - 50mm LENGTH	0,000	0,050	M	0,000	0,000	21	0,000	0,000					
	BOLTING M.12 - 50mm LENGTH	21 EA												
						WT TOTAL	177,945	KG						
NB:														
Checked by,														
Rano Susandi														
Approved by,														
M. Taufiq Firdaus														





UNIT USAHA BUKAKA
DOCUMENT CONTROL CENTRE
ORIGINAL
05 SEP 2014

PT. BUKAKA TEKNIK UTAMA TBK.
BALIKPAPAN BRANCH OFFICE & WORKSHOP
ENGINEERING DEPARTMENT
Jl. Muhammadiyah, Km. 21 Menggar - BALIKPAPAN, KALIMANTAN BARAT
Tel. 0542-743302 (Menggar), Fax. 0542-743319
Email Address: bukakateknik@bukakateknik.com

BUKAKA

REFERENCE NO.	REFERENCE DRAWING TITLE	REV.	DATE	BY	PASSPORT	DRAWN BY	SIGNED	DATE
						YH	05/09/2014	
						AM	05/09/2014	
						IT	05/09/2014	
						SA	0	05/09/2014
						APPROVED BY	SA	05/09/2014

DETAIL A (TYP)
SCALE 1:10

NOTE: CHEVRON INDONESIA COMPANY
FRAME LUBE OIL COOLER C1-A
SINGLE PART

DRAWING NO. ID. REV. SHEET SCALE
F138-S-4-329 620 1/2 AS SHOWN

