



SUPPLIER DOCUMENT COVER SHEET

Greater Stella Development Project



Supplier Name: TM.P

Purchase Order Title: JI-675-PPFM-002# EXPORT OIL & BOOSTER PUMPS

Equipment / Tag Number: P-0152 A/B EXPORT OIL PIPELINE PUMPS

Supplier's Document No.: 1252195000 R02

Supplier's Issue Record

Rev	Date	Issue	By	Checked	Approved
03	20/05/13	REVIEW	LAZZERI	<i>[Signature]</i>	<i>[Signature]</i>
02	12/03/13	REVIEW	LAZZERI	<i>[Signature]</i>	MUSSI
01	13/11/12	FIRST ISSUE	LAZZERI	LAZZERI	MUSSI

Project Document Number

Purchase Order Number	Document Type Code	Discipline Code	Seq. No	Revision	Revision Date
JI-675-PPFM-002	MB1	M	001	03	20/05/13

DOCUMENT TITLE: OUTLINE DRAWING

SUPPLIER DOCUMENT REVIEW

Purchaser's review of Supplier's documents does not relieve Supplier of the responsibility for correctness under the Purchase Order. Permission to proceed does not constitute acceptance of design, detail and calculations, test methods or materials developed or selected by the Supplier and does not relieve the Supplier from full compliance with the Purchase Order or any other obligations, nor detract from any of the Purchaser's rights.

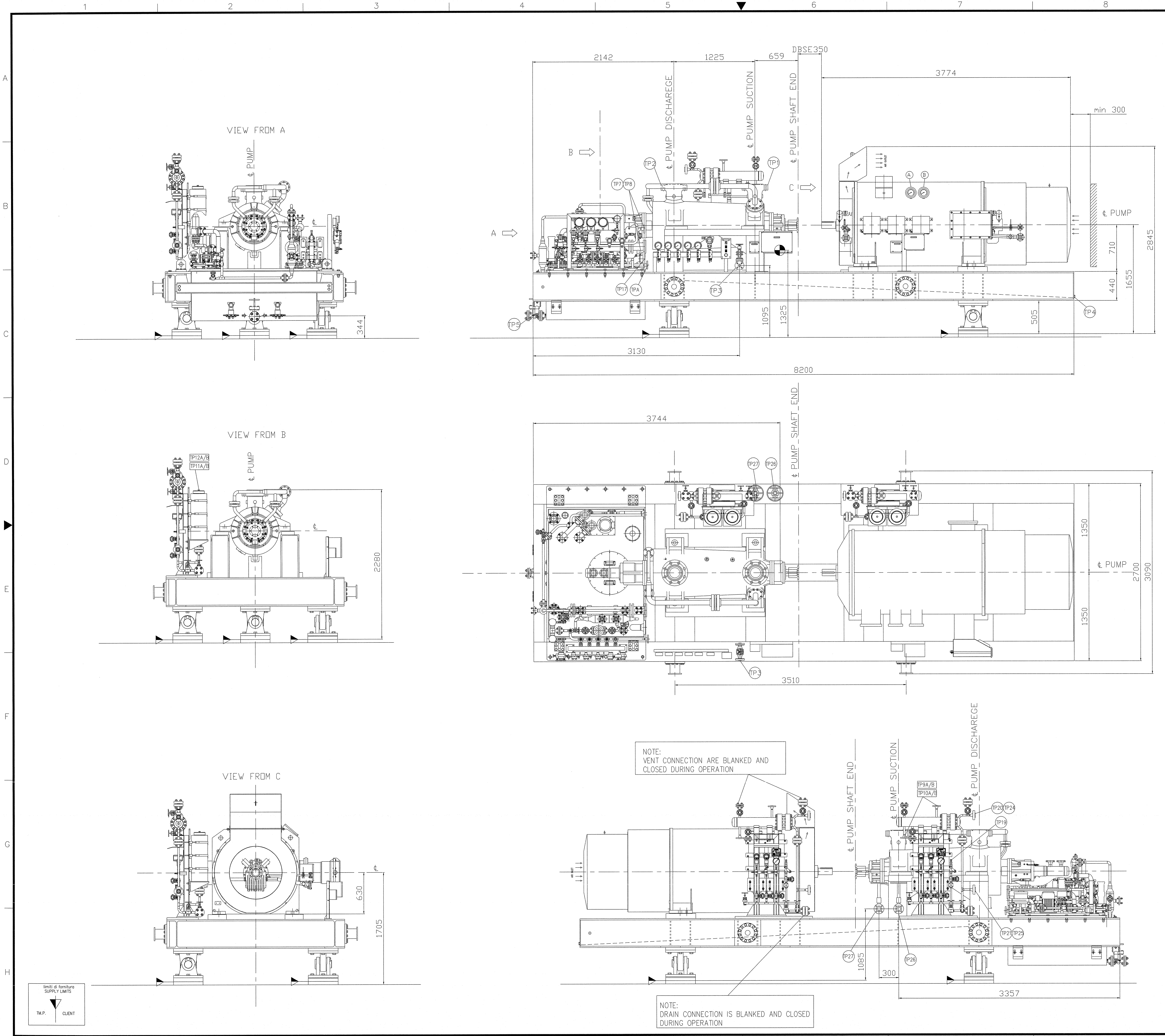
	A	B	C	D	E
SIGNATURE	<i>[Signature]</i>				
DATE	11/6/2013				

- CODE 1 - Accepted. Work may proceed.
- CODE 2 - Accepted With Comments. Revise and re-submit, but work may proceed subject to the incorporation of Purchaser comments.
- CODE 3 - Rejected. Revise and re-submit, but work may NOT proceed until the incorporation of Purchaser comments and approval received by Supplier
- CODE 4 - Information only Accepted for Information Only.

IMPORTANT

If the Supplier considers that any comments made by the Purchaser change the Scope of Supply the Supplier shall advise the price and delivery implications of such changes within five working days of receipt. The Supplier must not incorporate such changes without prior approval of the Purchaser of the revised price and/or delivery period. RETROSPECTIVE CLAIMS WILL NOT BE CONSIDERED.

The document consists of this front sheet plus 2 pages.



forze e momenti ammissibili sulle flange
MAX. ALLOWABLE FORCES AND TORQUES ON FLANGES

	forze - FORCES (N)			momenti - TORQUES (Nm)		
	F _x	F _y	F _z	M _x	M _y	M _z
aspirazione - SUCTION	9960	8200	12440	9200	4720	7040
mandata - DISCHARGE	9960	8200	12440	9200	4720	7040

PUMP

PUMP TYPE : MESB 150.11
 CAPACITY DISCHARGE : 170 m³/h
 HEAD FPS condition(3280 RPM) : 2073 m
 HEAD J-BLOCK condition(2720 RPM) : 1350 m
 RPM : 2700 RPM MIN
 3564 RPM MAX

ELECTRIC MOTOR

EL. MOTOR TYPE : AMD 630 L2 TBSBFM
 MFR. : ABB
 POWER : 1500kW
 VOLTAGE : 6600 V
 RPM : 2700 RPM MIN
 2720 RPM J-BLOCK
 2980 RPM J-BLOCK START
 3280 RPM FPS
 3564 RPM FPS START

CONNECTIONS

TP1	PUMP SUCTION	6" ANSI B16.5 - 1500LB - RTJ
TP2	PUMP DISCHARGE	6" ANSI B16.5 - 1500LB - RTJ
TP3	DRAIN PUMP	1" ANSI B16.5 - 1500 RTJ
TP26	COOLING WATER INLET	2" ANSI B16.5 - 150LB - RF
TP27	COOLING WATER OUTLET	2" ANSI B16.5 - 150LB - RF
TP4	BASEPLATE DRAIN	1" NPT-F
TP5	LUBE OIL TANK DRAIN	2" ANSI B16.5 - 150LB - RF
TP21	CONNECTION TO MECH. SEAL (INSIDE CONNECTION)	3/4" ANSI B16.5 - 2500LB - RTJ
TP25	CONNECTION FROM MECH. SEAL (INSIDE CONNECTION)	3/4" ANSI B16.5 - 2500LB - RTJ
TP20	CONNECTION FROM MECH. SEAL (INSIDE CONNECTION)	3/4" ANSI B16.5 - 2500LB - RTJ
TP19	REFIL QUICK COUPLING	1/2" NPT - MALE
TP9A/B	MECH. SEAL COOLING IN-OUTLET (INSIDE CONNECTION)	3/4" ANSI B16.5 - 300LB - RF
TP10A/B	MECH. SEAL COOLING IN-OUTLET (INSIDE CONNECTION)	3/4" ANSI B16.5 - 300LB - RF
TP11A/B	NITROGEN REFIL CONNECTION	1/4" BSP-M
TP12A/B	NITROGEN REFIL CONNECTION	1/4" BSP-M
TP7	OIL COOLER WATER CONNECTION (INSIDE CONNECTION)	1" ANSI B16.5 - 300LB - RF
TP8	OIL COOLER WATER CONNECTION (INSIDE CONNECTION)	1" ANSI B16.5 - 300LB - RF
TP17	OIL RETURN TO TANK (INSIDE CONNECTION)	3" ANSI B16.5 - 150LB - RF
TP18	OIL RETURN TO TANK (INSIDE CONNECTION)	3" ANSI B16.5 - 150LB - RF
TPA	LUBE OIL OUTLET (INSIDE CONNECTION)	3" ANSI B16.5 - 150LB - RF

NOTE:
 a) SEAL SYSTEMS ARE REMOVABLE TO ALLOW THE LIFTING OF THE ELECTRIC MOTOR
 b) THE LIFTING LUGS ARE REMOVABLE

REV	DESCRIPTION	ORIG	DRWN	CK'D	APP'D	DATE
03	REVIEW		LAZZERI	LAZZERI	MUSI	20/05/13
02	REVIEW		LAZZERI	LAZZERI	MUSI	12-03-13
01	FIRST ISSUE		FABRELO	LAZZERI	MUSI	20-11-12

ITHACA ENERGY
STELLA

GREATER STELLA AREA DEVELOPMENT

Petrofac

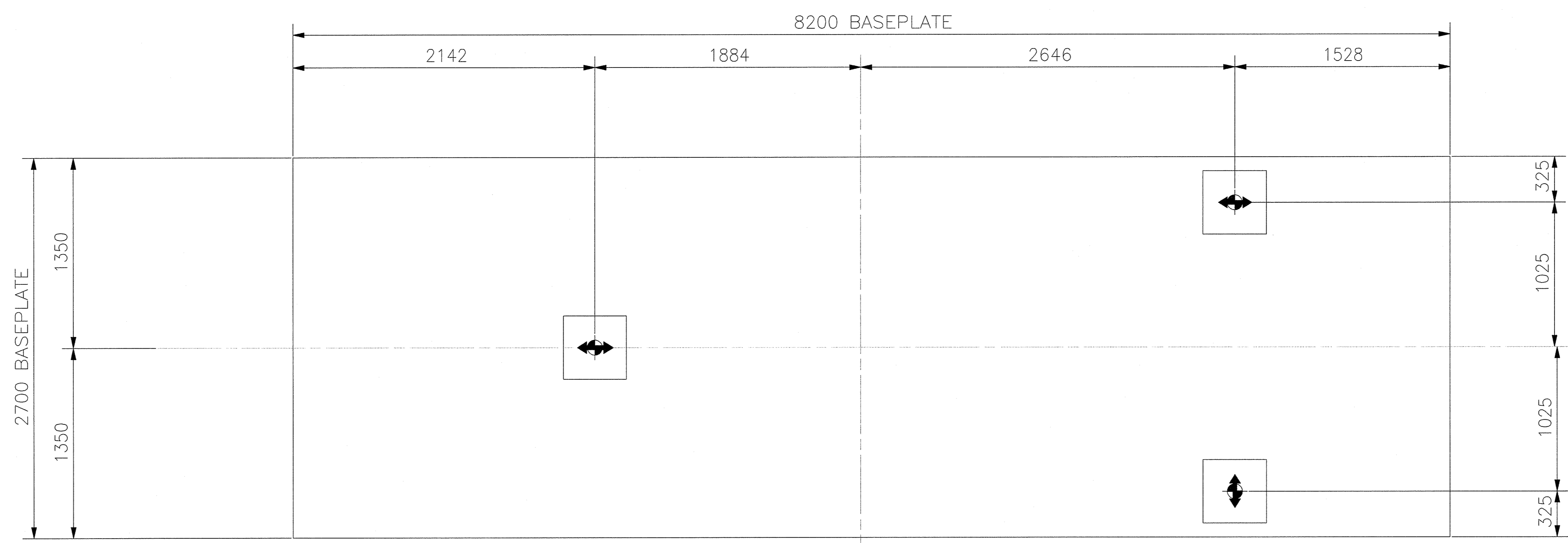
CONTRACT No. : JI-675-PPFM-002
 PETROFAC JOB No. :
 ORIGINAL DWG SIZE : A0
 SCALE : /

CLIENTE/CUSTOMER	COSTRUZIONE/CONSTRUCTION	DESCRIZIONE/DESCRIPTION	TAVOLA/TABLE
ITACAPETROFAC	12521	OUTLINE DRAWING	1 / 1

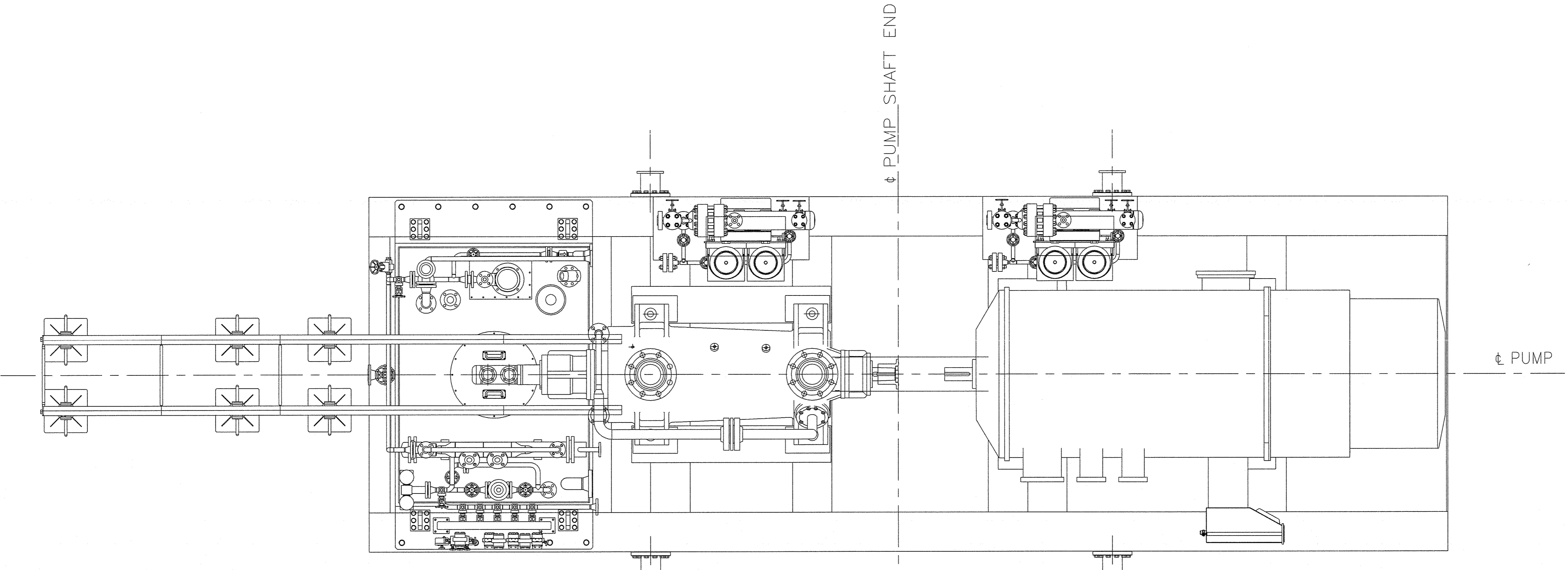
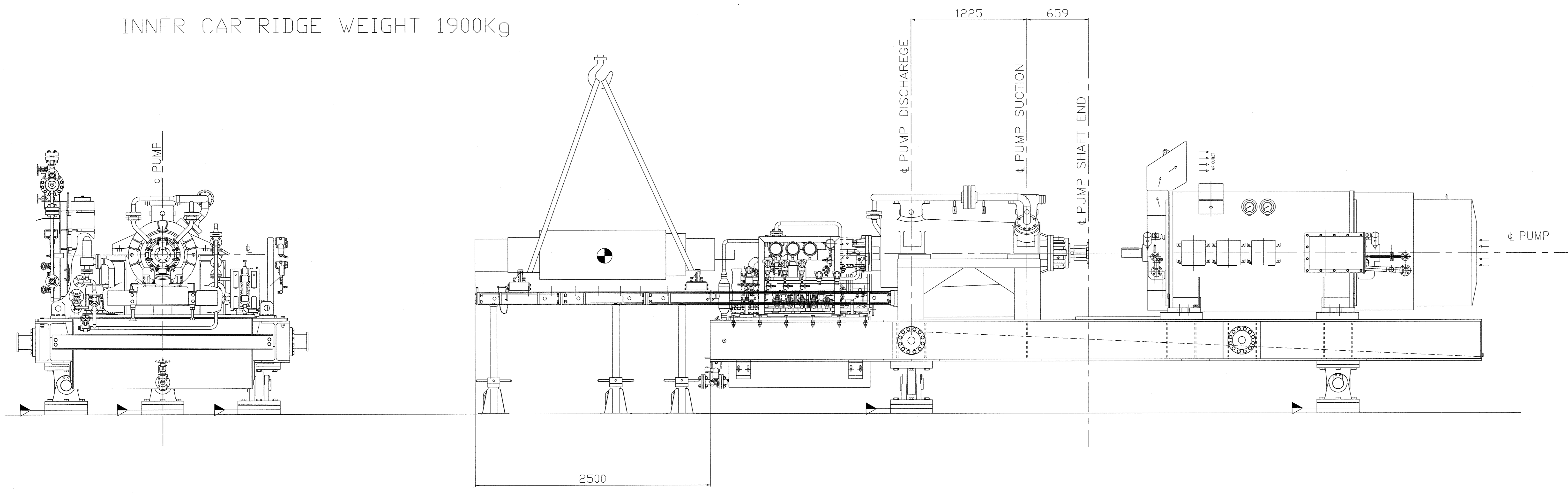
TM.P. S.p.A.
 Termomeccanica Pompe
 La Spezia - Italy

RES F.16
 DISEGNO/DRAWING
 A0 1252195000_R02
 SCALE/SCALE

ELECTRONIC FILE :
 P-0152A/B EXPORT OIL PUMPS OUTLINE DRAWING
 DWG. JI-675-PPFM-002-MB1-M-001 SH. 1/2 REV 03



INNER DISASSEMBLY DEVICE
INNER CARTRIDGE WEIGHT 1900Kg

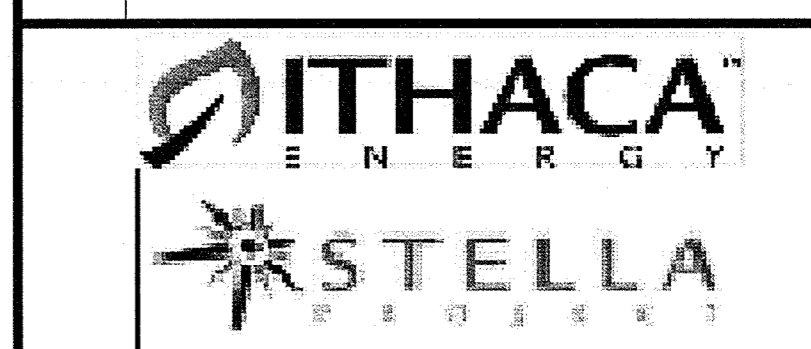


FOUNDATION LOAD

STATIC	
PUMP	: 6000Kg
ELECTRIC MOTOR	: 8000Kg
BASEPLATE	: 7340Kg
LUBE OIL DRY	: 2500Kg
MECH. SEAL SYSTEM	: 960Kg
TOTAL WEIGHT DRY	: 24800Kg
TOTAL WEIGHT	: 26000Kg

REFERENCE DOCUMENTS	DWG NUMBER
SECTIONAL DRAWING	J1-675-PPFM-002-MF3-M-001
PART AND MATERIAL LIST	J1-675-PPFM-002-MF3-M-002
MECHANICAL SEAL SYSTEM	J1-675-PPFM-002-MF3-M-008
ELECTRIC MOTOR OUTLINE	J1-675-PPFM-002-EB1-E-001
FOUNDATION LOADING DIAGRAM AND SUPPORT DETAILS	J1-675-PPFM-002-MB4-M-001
MECHANICAL DATA SHEET	J1-675-PPFM-002-MD2-M-001
P&ID	J1-675-PPFM-002-MC2-M-001
INSTRUMENT & PANEL OUTLINE DRAWING	J1-675-PPFM-002-IB2-J-001

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03	REVIEW		LAZZERI	LAZZERI	MUSSI	20/05/13
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01	FIRST ISSUE		FABRELLO	LAZZERI	MUSSI	20-11-12



GREATER
STELLA AREA
DEVELOPMENT



CONTRACT No. : J1-675-PPFM-002
PETROFAC JOB No. :
ORIGINAL DWG SIZE : A0
SCALE : /

CLIENTE/CUSTOMER ITHACA/PETROFAC	COSTRUZIONE/COSTRUCTION 12521	DESCRIZIONE/DESCRIPTION OUTLINE DRAWING	TAVOLA/TABLE 1 / 1
TM.P. S.p.A. Termomeccanica Pompe La Spezia - Italy		RES F. No. DISCONO/DRAWING <input type="checkbox"/> A0	SCALA/SCALE 1252195000_R02

ELECTRONIC FILE :
P-0152A/B EXPORT OIL PUMPS OUTLINE DRAWING
DWG. J1-675-PPFM-002-MB1-M-001 SH. 2/2 REV 03