



JOINT PROJECTS TEAM

STRUCTURE A & E DEVELOPMENT PROJECT NC41 BLOCK LIBYAN OFFSHORE

Invitation for Pre-Qualification

PROVISION OF OFFSHORE DRILLING RIG SERVICE FOR “A” STRUCTURE



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1. SCOPE OF DOCUMENT

Tender Pre-Qualification is open for local and international vendors specialized in provision of Offshore Drilling Rig Services (for both Jack-Up rig and/or Semisubmersible rig) Service and therefore invited to express their interest by submitting their documents and providing the requested information as per the following requirements.

This document defines only:

- Information for the Planned Activity
- Main Technical Requirements of the requested Drilling Units
- Minimum Requirements of the Drilling Rig Crew.

2. INFORMATION FOR THE PLANNED ACTIVITY

Mellitah Oil & Gas plans to drill 8 (eight) offshore development wells (subsea wet & dry tree wells) in structure A - block NC41,

“A” **Structure** is about 75 km from the Libyan coast. The target depth of the deepest well is expected to be around 5300 m MD (approx. 2800 m. TVD), in a water depth of 95 m (to be confirmed). It has been considered to pre-drill the wells, then re-entry the same to be tied-back and completed with a work-over light rig working from the platform itself.

Mellitah Oil & Gas intends to pre-qualify drilling contractors who can provide offshore Jack-Up Rig and/or Semisubmersible Rig service.

The spud date of the first well is foreseen on March 2021. Company Operation Bases will be located in Malta and/or Tripoli.

The qualified drilling contractor shall be capable to prove continuous service provision in the last five (5) years.

IMPORTANT NOTE:

The final selection whether to use the Jack-up rig or semisubmersible rig will be decided by COMPANY upon receiving the result of the Geotechnical and Geophysical survey which is currently not available. Therefore, interested bidders are urged to provide all technical details and features for both types of rigs as stipulated hereunder in section (3); however, bidders who have the capabilities to provide only one type rig (Jack Up or Semisubmersible) can also apply.

3. MAIN TECHNICAL REQUIREMENTS

3.1. REFERENCES

National Laws, Rule, Regulation & Standard

All the laws, rules and regulations in force in the area of operation and related to drilling activity shall be applied. All the international rules and regulations concerning requirements for drilling personnel, drilling rig and relevant equipment, as hoisting equipment, pressure vessels, electric equipment in general and electrical equipment installed in areas classified “hazardous” in particular shall be applied.

3.2. RIGS

3.2.1. **JACK-UP DRILLING UNIT**

The requested **Jack Up Drilling Unit** shall have the capability to operate in a **water depth of 95m (to be confirmed)** and be fitted with a Pollution Prevention system with adequate treatment facilities compliant to requirements coming from Environmental Impact Assessment process to reach the target concerning water quality related to local legislation, International Conventions for offshore discharge.

The drilling Unit shall have the Class Certificates minimum compliant with the IMO MODU CODE 1989 issued and valid periodical surveys.

The Derrick Skidding System has to be capable to cover Pre-Drilling Template footprint (refer to ANNEX – Structure A Pre-drilling Template Preliminary Design) and be equipped with Drilling Conductor Tensioning System (able to hang Conductor Pipes and Casings while drilling).



The rig shall be equipped with:

- Minimum of three mud pumps, with min rated input power of 1600HP, designed and manufactured as per API 7K.
- Rotary table max opening has to be 49½”.
- 10,000 psi Surface BOP Stack (preferable 18¾” nominal size) in compliance with the API Specification 16A and API standard 53 manufactured as per API 16-A and shall be provided with:
 - *At least three (3) ram type preventer (one blind/shear ram and two pipe rams)*
 - *one 5,000 psi annular type preventer.*

The accommodation module should have at least 40 beds for Company’s people and third party Company’s Service people and shall comply with IMO MODU Code requirements.

3.2.1.1. JACK-UP RIG MAIN FEATURES

Drilling Contractor is kindly requested to fill in and return the below table assuming info and requirements defined above:

GENERAL INFO

Vendor name
 Vendor previous experience in Country of operation
 Vendor previous experience in the area of operation
 Proposed Unit previous experience in the area of operation

RIG DATA

Unit Name
 Unit type
 Unit design
 Year of unit construction
 Upgrading info
 Rig class certification (IMO MODU 1989)
 Environmental protection rig feature
 Actual Unit Location
 Actual Unit Status (drilling, Idle.)
 Availability for this project (specify period)

OPERATING PARAMETERS

Outfitted max water depth capability m
 Available Leg Length below the Hull m
 Variable deck load, drilling and transit mode t
 Crane types and min load t

DRILLING SYSTEMS

Op. mode (e.g: single, activity, off-line capability, dual activity) :
 Max static hook load that rig can handle in csg running mode t.
 Max static hook load that rig can handle in drilling mode t



MUD SYSTEM

H.P. Mud Pumps

Total installed	no.	<input type="text"/>
Make-type	:	<input type="text"/>
Max rated input power	:	<input type="text"/>
Fluid end working pressure	psi	<input type="text"/>

Mud System

Total mud storage	mc	<input type="text"/>
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Solid Control System

Description of waste cutting and fluids treatment equipment	<input type="text"/>
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CEMENTING UNIT

Make-type	<input type="text"/>
Max rated input power	<input type="text"/>
Working pressure	psi <input type="text"/>

JACKING AND SKIDDING SYSTEM

Make and Type	:	(cantilever load beam chart is required)
Maximum cantilever longitudinal skidding capability:	m	<input type="text"/>
Maximum derrick transversal skidding capability:	m	<input type="text"/>

WELL CONTROL EQUIPMENT

Main BOP Stack

Stack configuration	:	<input type="text" value="(sketch to be provided)"/>
Built as per API specification	:	<input type="text"/>
Compliant to API STD 53	yes/ no	<input type="text"/>

Bag Preventer

Make and type	:	<input type="text"/>
Size and working Pressure	in-psi	<input type="text"/>

Ram Preventer

Quantity	no.	<input type="text"/>
Make and type	:	<input type="text"/>
Size and working Pressure	in-psi	<input type="text"/>
Is one equipped with blind-shear rams?		<input type="text"/>

TUBULARS

Main data of the Drill pipes (available)	:	<input type="text"/>
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HELICOPTER DECK

Helideck	:	<input type="text"/>
Compliant with CAP 437	yes/ no	<input type="text"/>
Refueling system	yes/ no	<input type="text"/>



ACCOMODATION MODULE

LIVING QUARTERS

Compliant to rules /standard
 Total persons Capacity
 Beds Reserved to Company

:
 No.
 No.

H2S SERVICE

Description of Main Safety Equipment
 Safety Breathing Equipment (CASCADE System)

:
 yes/no

3.2.2. SEMISUBMERSIBLE RIG DRILLING UNIT

The requested Semisubmersible Drilling Unit shall have the capability to operate in a water depth of 95 m (to be confirmed) and be fitted with a Pollution Prevention system with adequate treatment facilities compliant to requirements coming from Environmental Impact Assessment process to reach the target concerning water quality related to local legislation, International Conventions for offshore discharge.

The drilling Unit shall be moored type and shall have the Class Certificates and valid periodical surveys compliant with the IMO MODU CODE last edition, minimum compliant with the IMO MODU CODE 1989 issued by an International Agency. The Drilling Unit should have the Class notation for drilling system.

The rig shall be provided of:

- minimum of three mud pumps (preferable four mud pumps, with one unit dedicated for booster line), with min rated input power of 1600HP, designed and manufactured as per API 7K.
- rotary table max opening has to be 49½”.
- Minimum Class-5 10,000 psi Subsea BOP Stack in compliance with the API Specification 16A and API standard 53 manufactured.

The hoisting system shall be suitable to hoist and run BOP and Riser to the maximum expected water depth and the heaviest casing load as per above project information.

A Vetco H4 27” wellhead connector is preferred.

In addition to the Subsea BOP Primary Control System, the following BOP Secondary and Emergency Control Systems shall be installed:

- Deadman System as defined by the API Specification 16D
- Autoshear System as defined by the API Specification 16D
- ROV Intervention Interface Panel in compliance with ISO 13628-8/API RP 17H with standard high flow hot stabs.

The accommodation module should have at least 40 beds for Company’s people and third party Company’s service people and shall comply with IMO MODU Code requirements as per API 16-A.



3.2.2.1. MAIN SEMISUBMERSIBLE RIG FEATURES

Drilling Contractor is kindly requested to fill in and return the below table assuming info and requirements defined above:

GENERAL INFO

Vendor name	
Vendor previous experience in Country of operation	-----
Vendor previous experience in the area of operation	-----
Proposed Unit	-----
previous experience in the area of operation	-----

RIG DATA

Unit Name	-----
Unit type	-----
Unit design	-----
Year of unit construction	-----
Upgrading info	-----
Rig class certification (IMO MODU 1989)	-----
Environmental protection rig feature	-----
Actual	-----
Unit Location	-----
Actual Unit Status (drilling, Idle.)	-----
Availability for this project (specify period)	-----

OPERATING PARAMETERS

Outfitted max water depth capability	m	-----
Minimum water depth capability	m	-----
Variable deck load, drilling and transit mode	t	-----
Crane types and min load	t	-----

STATION KEEPING SYSTEM/S

Type	-----
Description of main features.	-----

DRILLING SYSTEMS

Op. mode (e.g: single, activity, off-line capability, dual activity)	:	-----
Max static hook load that rig can handle in running casing mode	t.	-----
Motion Compensator system	:	-----
Rated capacity compensated	t.	-----
Rated capacity locked	t	-----

MUD SYSTEM

H.P. Mud Pumps	
Total installed	no. -----
Make-type	: -----
Max rated input power	: -----
Fluid end working pressure	psi -----

Mud System	
Total mud storage	no. -----

Solid Control System	
Description of waste cutting and fluids treatment equipment	-----

CEMENTING UNIT

Make-type	-----
Max rated input power	-----
Working pressure	psi -----

RISER SYSTEM

Riser	:	
Make and type	:	
Riser joint total length	m	
Riser pipe outside/inside diameter	in	
Riser tensioning system	:	
Make and type	:	
Max rated tension capacity	t	

WELLHEAD CONNECTOR

W.H. connector	:	
Make and type	:	
Diameter	in	
Rating working pressure	psi	

WELL CONTROL EQUIPMENT

SUBSEA BOP STACK

Make and type	:	
Size and working Pressure	in-psi	
Stack configuration	:	(sketch to be provided)
Built as per API specification:	:	
Compliant to API STD 53	yes/no	
Upper connector (LMRP) pressure rating:	psi	
Emergency Control System:	:	
Secondary Control System:	:	

TUBULARS

Data of the Drill pipes (available)	:	
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HELICOPTER DECK

Accommodable Helicopters	:	
Built in Accordance with CAP 437	:	
yes/no	:	

ACCOMODATION MODULE

LIVING QUARTERS

Compliant to rules /standard	:	
Total persons Capacity	No.	
Beds Reserved to Company	No	

H2S SERVICE

Description of Main Safety Equipment	:	
Safety Breathing Equipment (CASCADE System)	yes/no	

4. PERSONNEL

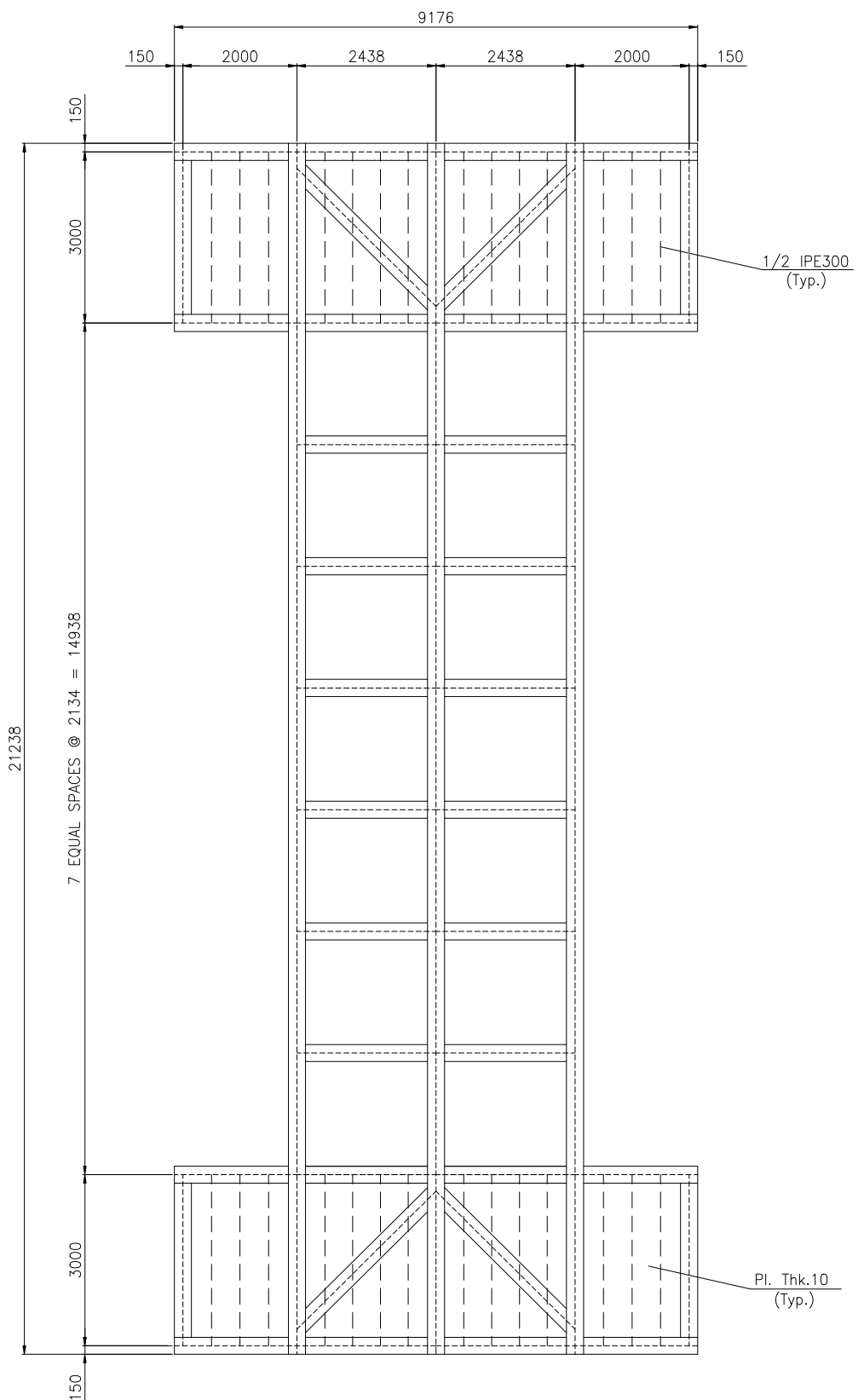
Personnel of Drilling Contractor involved in the operation shall be fully trained and skilled to carry out work in a safe and proper manner and hold the necessary authorizations to operate in the requested Country, in accordance with local laws and regulations.

All training courses (BOSIET, H2S, Fire Fighting, First Aid, IWCF) shall be performed by a specialized training centre (OPITO, EPT, etc.).

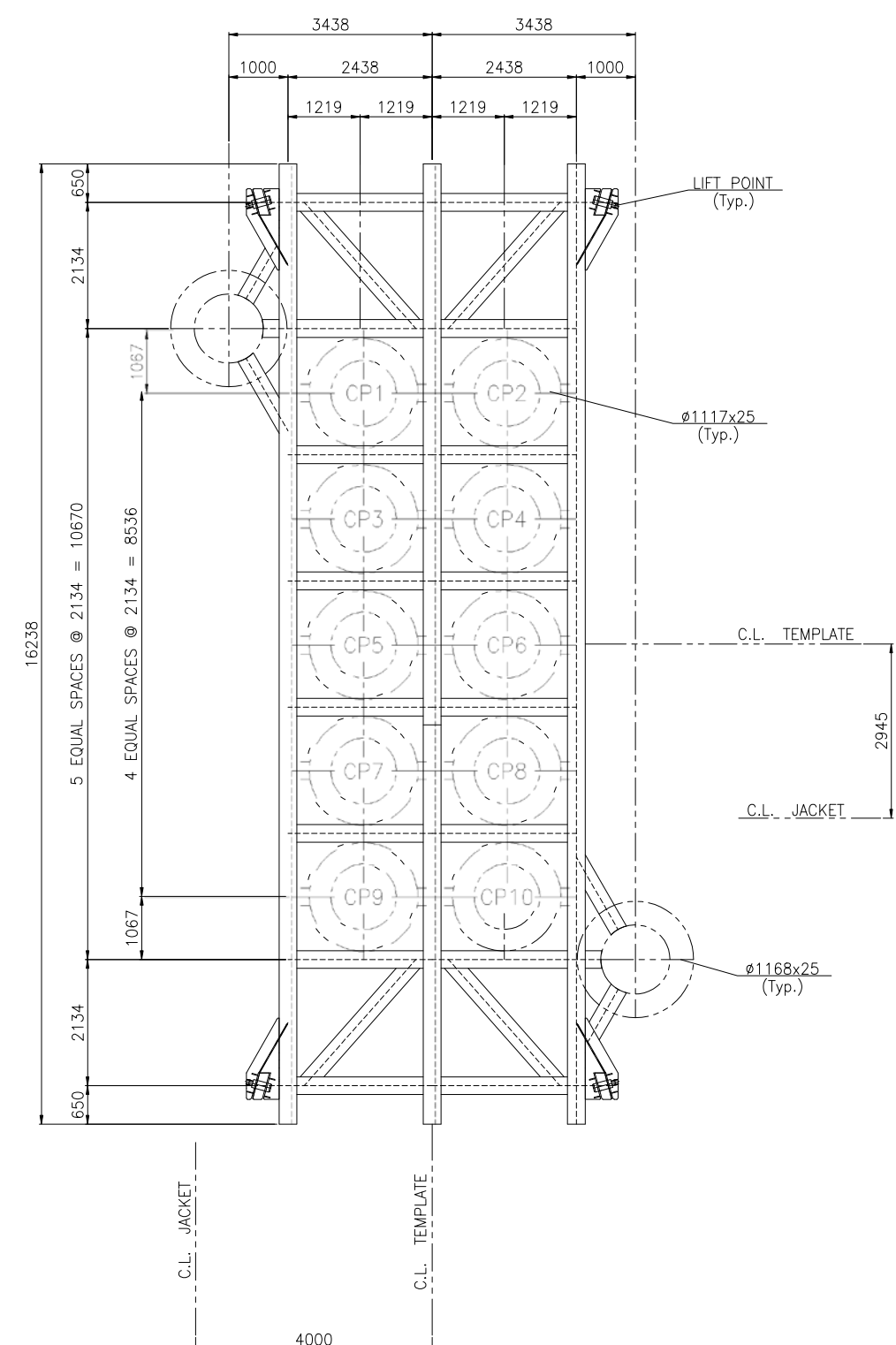


5. ANNEX – STRUCTURE “A” PRE-DRILLING TEMPLATE PRELIMINARY DESIGN

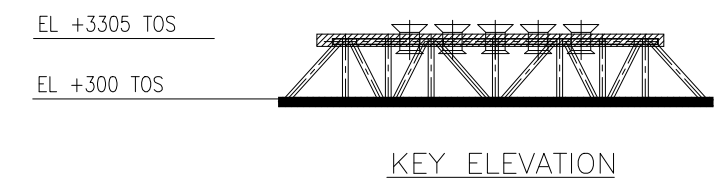
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EN-100-D-S-1059-04-P2	WHPA ELEVATIONS



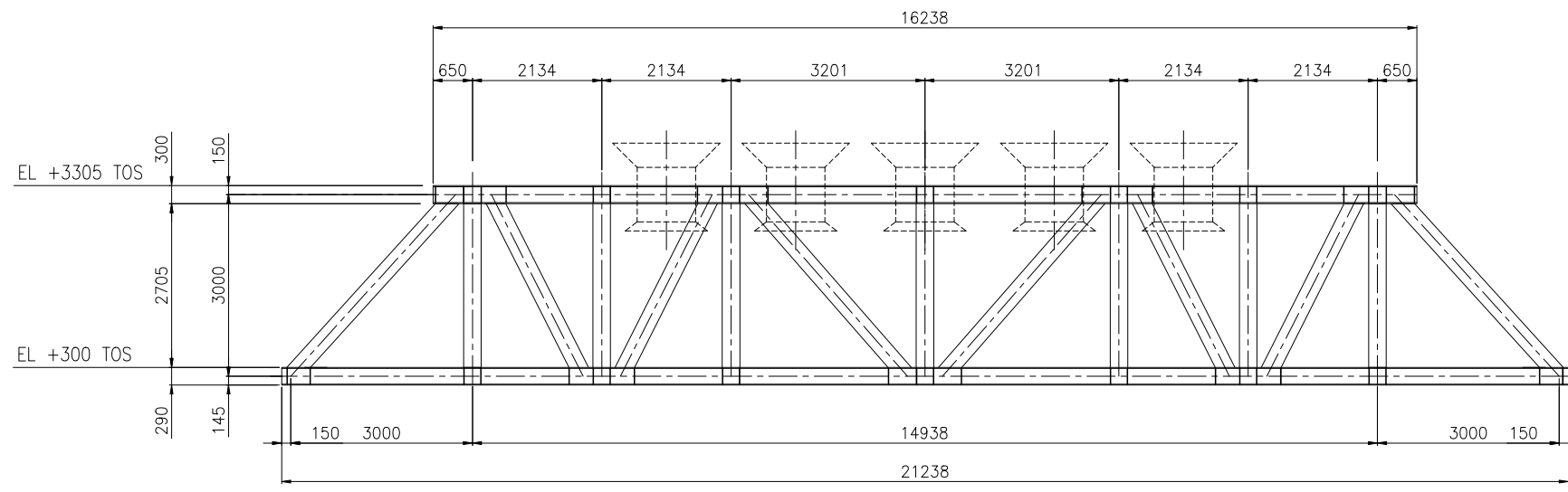
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(ALL BEAMS TO BE HEA300)



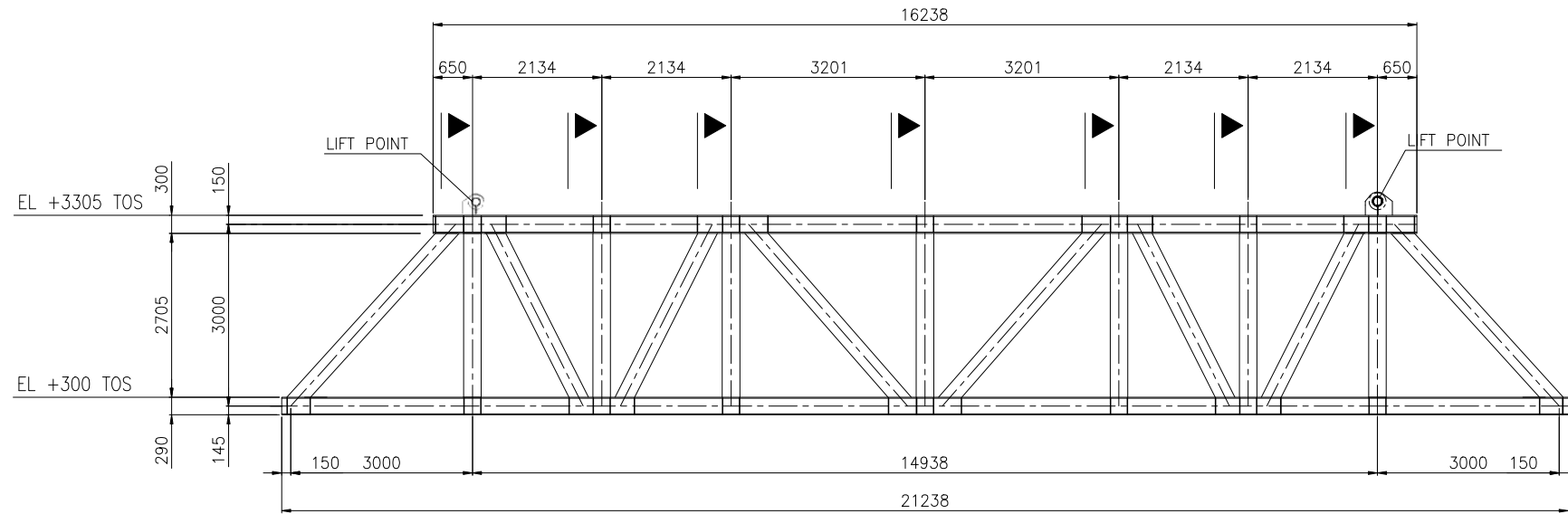
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(ALL BEAMS TO BE HEA300)



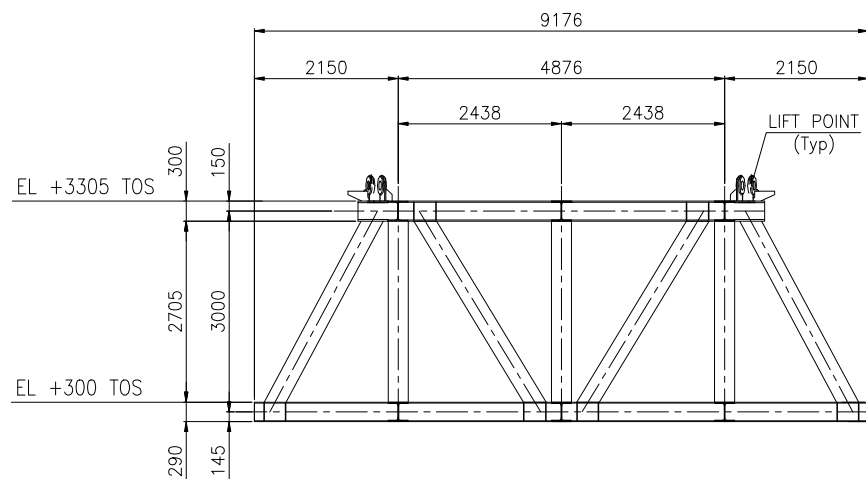
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00	EV-FS	13/04/2018	ISSUE FOR COMMENTS	Eni Project TEAM	Eni A. Mikkogi	EniNA M. Sait	MOE
Revision Number	Validity Status	Date	Description	PREPARED	VERIFIED	APPROVED	COMPANY APPROVED
Customer Logo and Business Name				Project Name		Company Document ID	
				STRUCTURES A & E, MELLITAH COMPLEX EXPANSION AND CO2 MANAGEMENT INTEGRATED DEVELOPMENT PROJECT		EN-100-D-S-1059-03-P2	
Facility and Sub Facility Name				Scale		Sheet of Sheets	
STRUCTURES A & E, MELLITAH COMPLEX EXPANSION AND CO2 MANAGEMENT				1 / 75		3 / 4	
Document Title				Supersedes N°		Superseded by N°	
PPE & WHPA PRE DRILLING TEMPLATE MAIN STRUCTURE WHPA PLANS				Plant Area		Plant Unit	
				N.A.		N.A.	



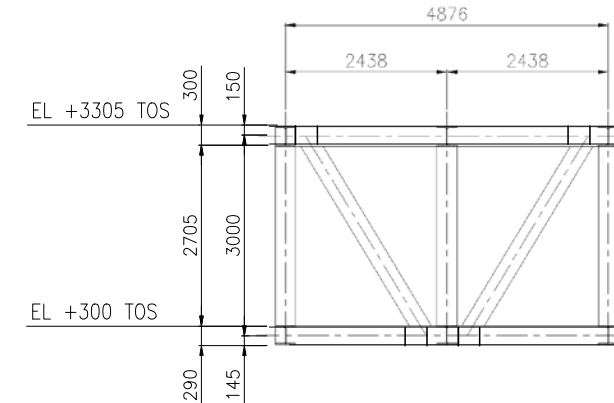
CENTRAL TRUSS
(ALL BRACES AND COLUMNS TO BE HEA300)



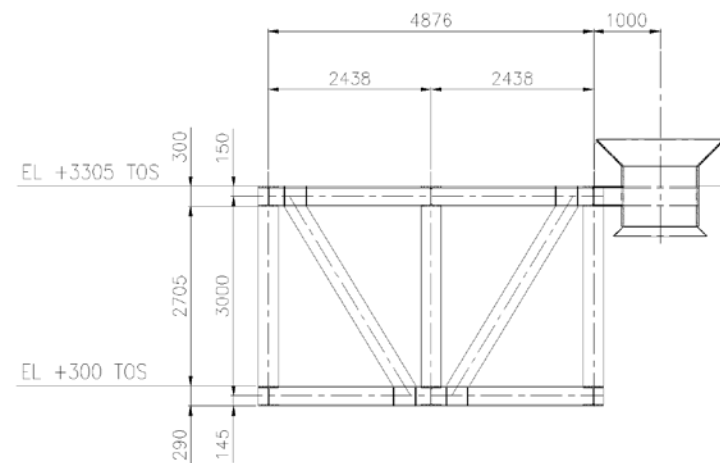
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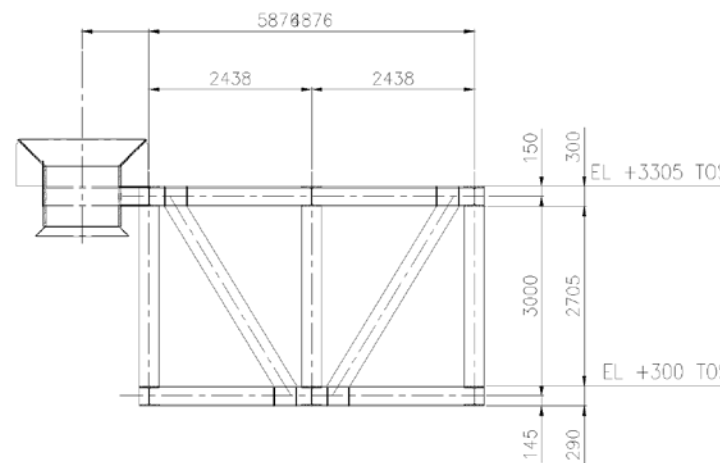
SECTION A-A
(ALL BRACES TO BE HEA300)



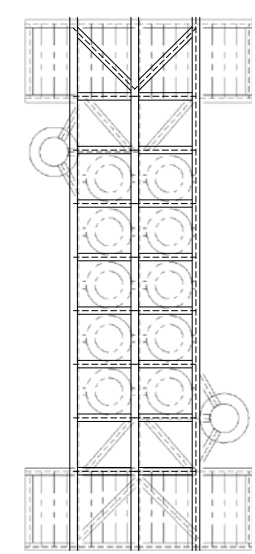
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(ALL BRACES TO BE HEA300)



SECTION C-C
(ALL BRACES TO BE HEA300)



SECTION D-D
(ALL BRACES TO BE HEA300)



KEY PLAN

REFERENCE DOCUMENTS	
NUMBERS	TITLE
EN-100-D-S-1059-03-P2	WHPA PLANS

01	EV-FS	09/11/2018	ISSUE FOR FEED TENDER	Eni Project TEAM	Eni A. M. S. S. S.	Eni M. S. S. S.	MOX
00	EV-FS	13/04/2018	ISSUE FOR COMMENTS	Eni Project TEAM	Eni A. M. S. S. S.	Eni M. S. S. S.	MOX
Revision number	Validity Status	Date	Description	PREPARED	VERIFIED	APPROVED	COMPANY APPROVED
Customer Logo and Business Name				Project Name		Company Document ID	
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Facility and Sub Facility Name				Scale	Sheet of Sheets		
STRUCTURES A & E, MELLITAH COMPLEX EXPANSION AND CO2 MANAGEMENT				1 / 75	4 / 4		
Document Title				Supersedes N°		Superseded by N°	
PPE & WHPA PRE DRILLING TEMPLATE MAIN STRUCTURE WHPA ELEVATIONS				Plant Area		Plant Unit	
				N.A.		N.A.	

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