

Service Capability Profile



Construction Delivery Services

Delivering Excellence through Self-Perform

Massy Wood offers enhanced services provided through various self-perform technical and labour intensive construction scopes. Our fully outfitted fabrication facility for welding, fabrication, testing and blasting and painting allows us to execute and deliver in-house construction delivery services through certified, multi-skilled personnel.

Massy Wood continues to train, retool, multi-skill and certify our personnel affording them a high level of proficiency and understanding of all processes, systems, equipment and technology to effectively deliver our client's needs and ensure added value to any project or scope of work.

Fabrication Facility:

155,000 sq. ft.

Manhours:

+178,000

This integrated, value added approach to delivery aims to reduce risks, minimise costs and prevent reputational damage.

Quayside Capabilities:

Massy Wood has access to 2 Quay / Bulkhead facilities at strategic marine locations in Chaguaramas located on the North West side of Trinidad and Tobago.

Quay side and load out capacity:

Chagterms:

- 270m, 120m Quay walls, 10m draft
- 5.7 acres assembly yard
- 900 psf load out capacity

Capital Signal:

- 98m Quay wall, 3.5m draft
- 3 acres assembly yard
- 900 psf load out capacity

Technology:

Computerized / Digital Radiography

- Immediate results
- No need for a dark room and traditional film development
- Ability to adjust digital results
- Eliminates use of chemicals needed to develop film, thereby reducing environmental impact

Remote Visual Inspection

- Eliminates the need for onsite inspections

Scan to Fab

- Digital scanning of piping and structural with real time development of fabrication drawings

Construction Delivery Services:

- Fabrication and welding
- Mechanical erection and installation
- of process piping
- Rigging and Lifting
- Abrasive blasting and coating
- Fabric maintenance
- Bolt torquing
- Hydrostatic testing
- Cold cutting
- Access solutions: scaffolding and rope access

Client Benefits:

- Strong safety performance
- Best in class quality performance
- Single interface for delivery: one-stop shop approach
- Execution visibility and control based on "One Team"
- Ability and flexibility to respond and mobilise for emergency call-out
- Multiskilled craft resources
- Optimised commercial options
- Optimised organisation in construction management integration and planning
- Competitive personnel and equipment rates
- Greater response to emergent scopes
- Greater influence on project outcome due to interface management by Massy Wood project teams

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KEY PROJECTS:

bp Trinidad & Tobago (bpTT)

Mahogany B 40" Y Valve Replacement (20T)

The scope involved:

- shop fabrication of piping and lifting frame for valve transfer and rigging activity
- scaffold erection and dismantling
- complex rigging and lifting
- bolt torquing and leak testing

Highlights:

- safe execution and completion of complex rigging and lifting activities to remove and reinstate new valve.
- 100% completion by a Massy Wood core team within a shutdown window where the facility and other NUIs were taken offline.
- opportune works liquidated due to the completion of planned scopes ahead of schedule.
- all activities were integrated with Atlantic's Train 4 TAR; no LTIs recorded.

Cashima Anomalies

Several piping anomalies identified posed an LOPC risk on the facility. Several of these could only be addressed and replaced with the facility shutdown.

The scope involved:

- piping fabrication and welding
- rigging and lifting for deconstruct and installation of newly fabricated spools
- bolt torquing and leak testing for reinstatement of the system
- replacement of corroded body bolts on flowline wet gas meter FT isolation valves
- installation of Lokring flanges and engineered clamp on 26" departing pipeline

Highlights:

- all identified anomalies were replaced within the allotted shutdown period
- onsite hot works eliminated using Lokring flange technology on the low-pressure piping systems
- hot works eliminated and complexity of flushing and purging the 26" departing pipeline was significantly decreased due to installation of an engineered clamp on the defect. This was classified by the client as a permanent repair solution for this particular defect

Flowlines Campaigns on Amherstia, Cannonball, Immortelle, Kapok, Serrette

The scope involved:

- onshore fabrication of flowline, casing vent piping (Duplex/Super Duplex) and associated structural components
- abrasive blasting/passivating and coating where applicable
- hydrostatic testing of new piping configurations
- field installation of new flowlines, casing vent lines, casing valves, HIPPS etc.
- bolt torquing
- electrical and instrumentation installation for new wells
- commissioning mechanical support

Highlights:

- safe execution and completion of complex rigging and lifting activities to install new piping, valves to ensure safe commission of new gas production wells
- 100% completion by Massy Wood Core Team. All activities were integrated with Atlantic Train 4 TAR
- platform re-started leak free ahead of schedule
- opportune works liquidated due to completion of planned scopes ahead of schedule
- completion of all activities within the allotted shutdown time with no LTIs recorded

Shell Trinidad

DAUP – East Coast Marine Area (ECMA)

Fabrication of CS and SS piping, structural members and pipe supports for installation of new Accommodation Unit.

Barracuda – East Coast Marine Area (ECMA)

Fabrication of CS and SS piping, structural members and pipe supports for acquisition of gas from the reservoirs to the Dolphin Platform.

Atlantic LNG Trinidad & Tobago

TROC Project – Small Bore Piping

Fabrication and modification of new piping and rigging and fabrication to facilitate installation of the new piping and tie-in of the new module.

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