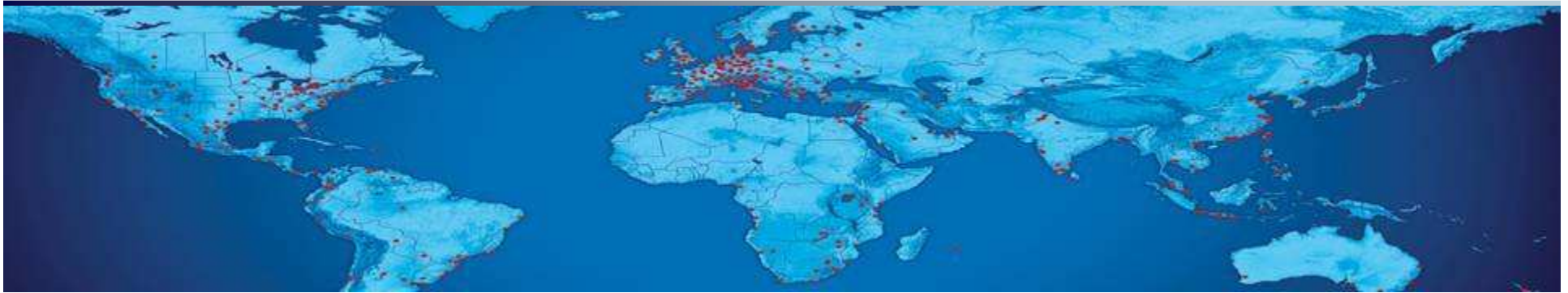




International Project Logistics – Planning & Execution of Specialized Transports

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Role of a freight forwarder

- Shipping consultation
- Vendor management
- Execution of shipments
- Monitoring



International Transportation Planning Shipping Consultation

- Shipping terms (Inco-Terms)
- Seaworthy Packing
- Mode of transport
- Route surveys



International Transportation Planning Vendor Management

- Establish contact
- Assist to prepare shipping documentation
- Pull strategy
- Prioritize cargo



International Transportation Planning Execution of shipments

- Marshalling yards
- In-House coordination at the clients office
- Technical Planning
- Cargo surveys



Execution of shipments

Marshalling Yard

The size and location of the project might require the setup of a marshalling yard as offsite storage facility and consolidation point for shipments to site.

- Receive incoming cargoes
 - Strip containers, return of equipment to carriers
 - Check for correct numbers and visible damages
 - Packing improvement if necessary
 - Detailed inspection with technical expeditors
 - Cross check shipment status against site requirements / construction schedule
 - Material management and inventory control based on Warehouse inventory system
 - Consolidation of shipments to site
 - Issue pre advice to site office
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Execution of shipments

In-House coordination at the clients office

In-House Coordinators form a vital part of the project as they build the closest interface between the project owner, the EPC and the K+N Project Division. They form an integrated part of the project team and are dedicated to optimize the project's logistic performance.

- Participate in kick off meetings with vendors
 - Follow up on PO status
 - Take part in project status meetings
 - Communicate with site management and expediting
 - Decide for mode of transport in accordance to site requirements
 - Issue Shipping release
 - Attend load out operation
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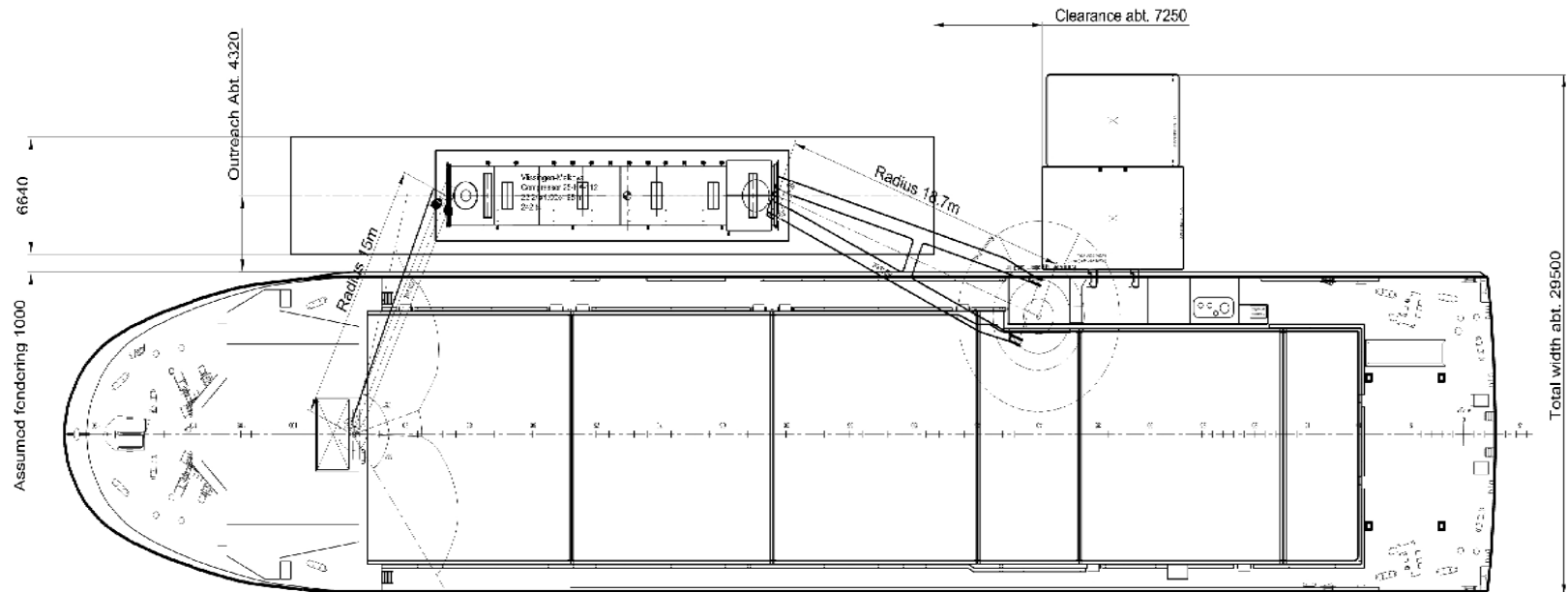


Execution of shipments

Technical Planning

Berthing Arrangements

Every loading operation demands for a specifically planned berthing arrangement. Components like the cargo's weight distribution, crane outreach, berthing draft and many more will have to be taken in consideration when planning for the right vessel type and load out method.



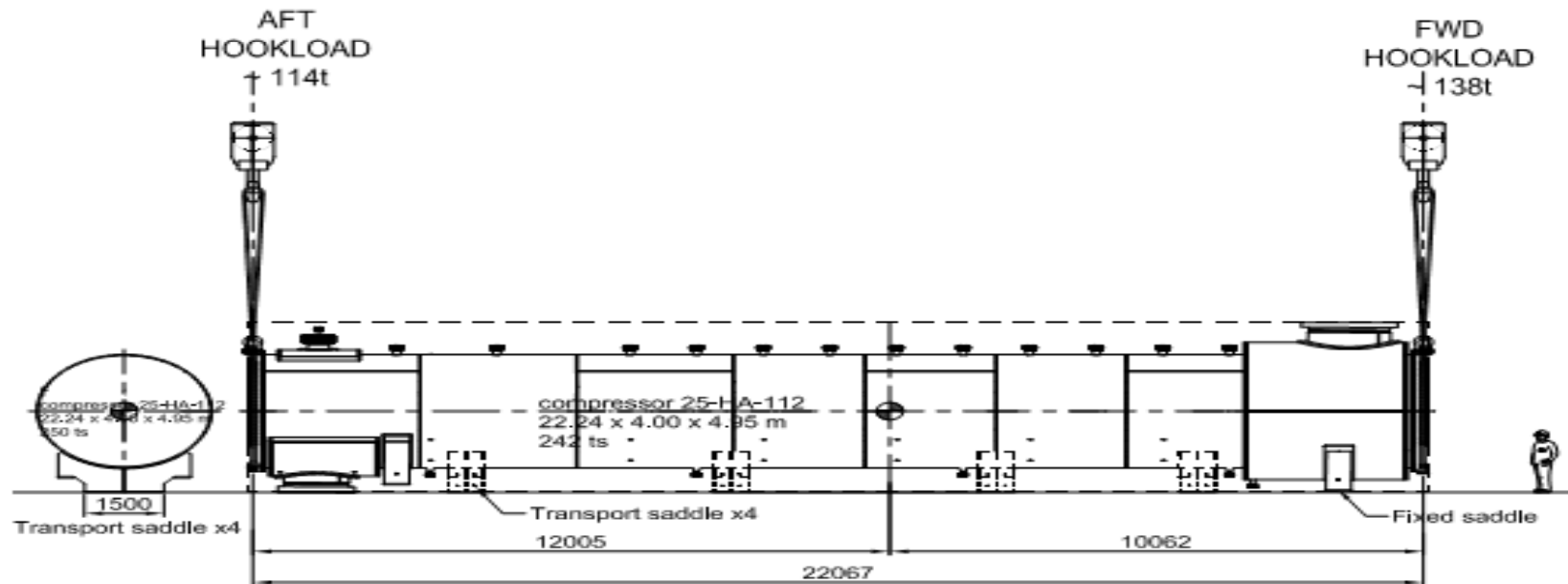


Execution of shipments

Technical Planning

Lifting Arrangements

The weight distribution as well as the position of the center of gravity have to be taken into consideration when planning for the right lifting arrangement.





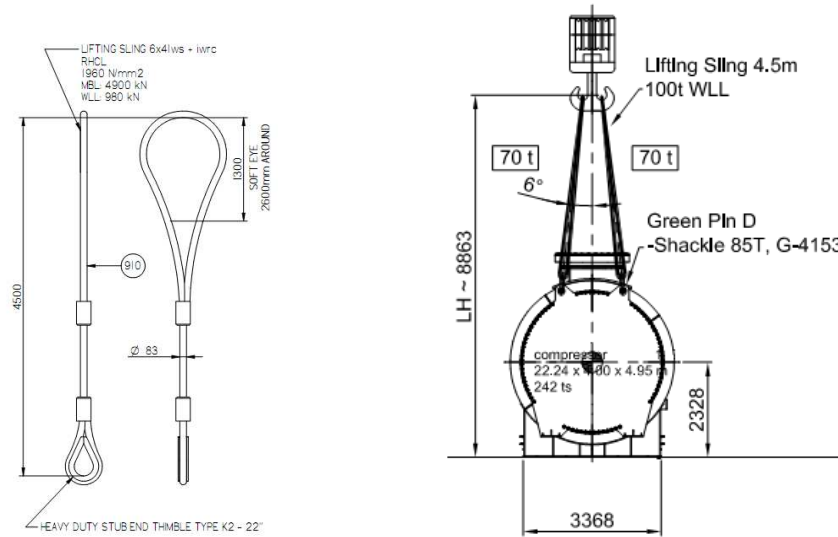
Execution of shipments

Technical Planning

Lifting Gear

Every component of the lifting arrangement needs to be accounted for and have valid certificates. Our representation at load out will make sure that very item will be according to plans and specifications previously agreed upon.

Our local contacts allow us to make sure that you will have the right gear at hand at the time of operation should carriers not provide same.





Execution of shipments

Technical Planning

Lashings

Lashings with cables and chains are utilized to protect the cargo against vertical uplift forces and free transformation during the sea voyage.

Every unit of oversized cargo demands for an individual lashing design to guarantee a safe journey and suffice IMO standards or the maritime warranty insurance's requirements.

In most cases lashing lugs or d-rings will have to be welded to the hold / deck of the vessel to accommodate for suitable lashings. This demands for detailed designs studies considering acceleration forces during the sea-voyage and the position of structurally strong points in the vessel.



International Transportation Planning Monitoring

- Tracking
- Pro-active adjustments
- Reacting to unexpected situations

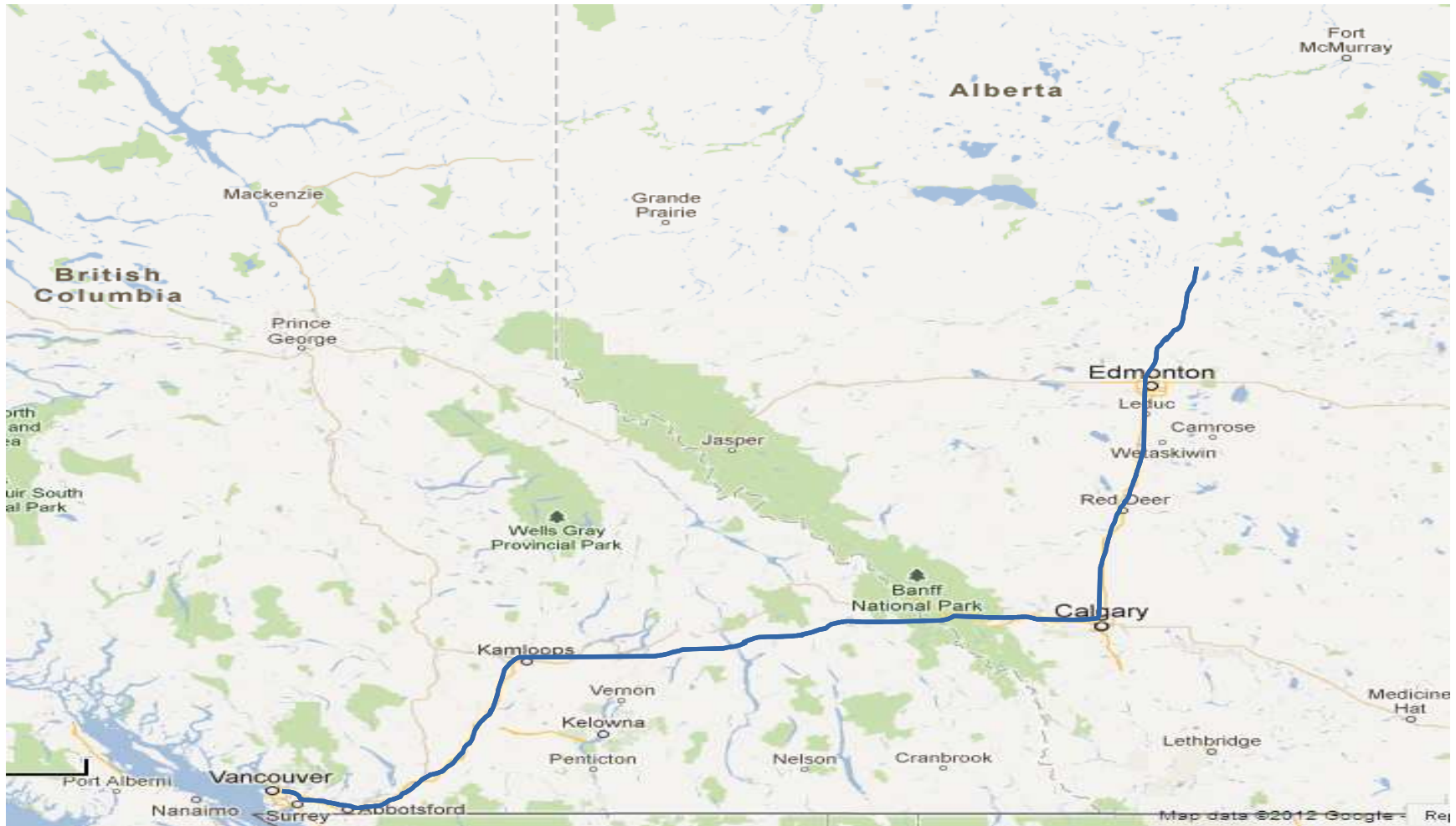


Example



Regular shipments

Routing from Port of Vancouver to Northern Alberta





Oilfield equipment (made in BC, Canada)

Dimensions & Weights

Cargo: Tower top

Length: 25'

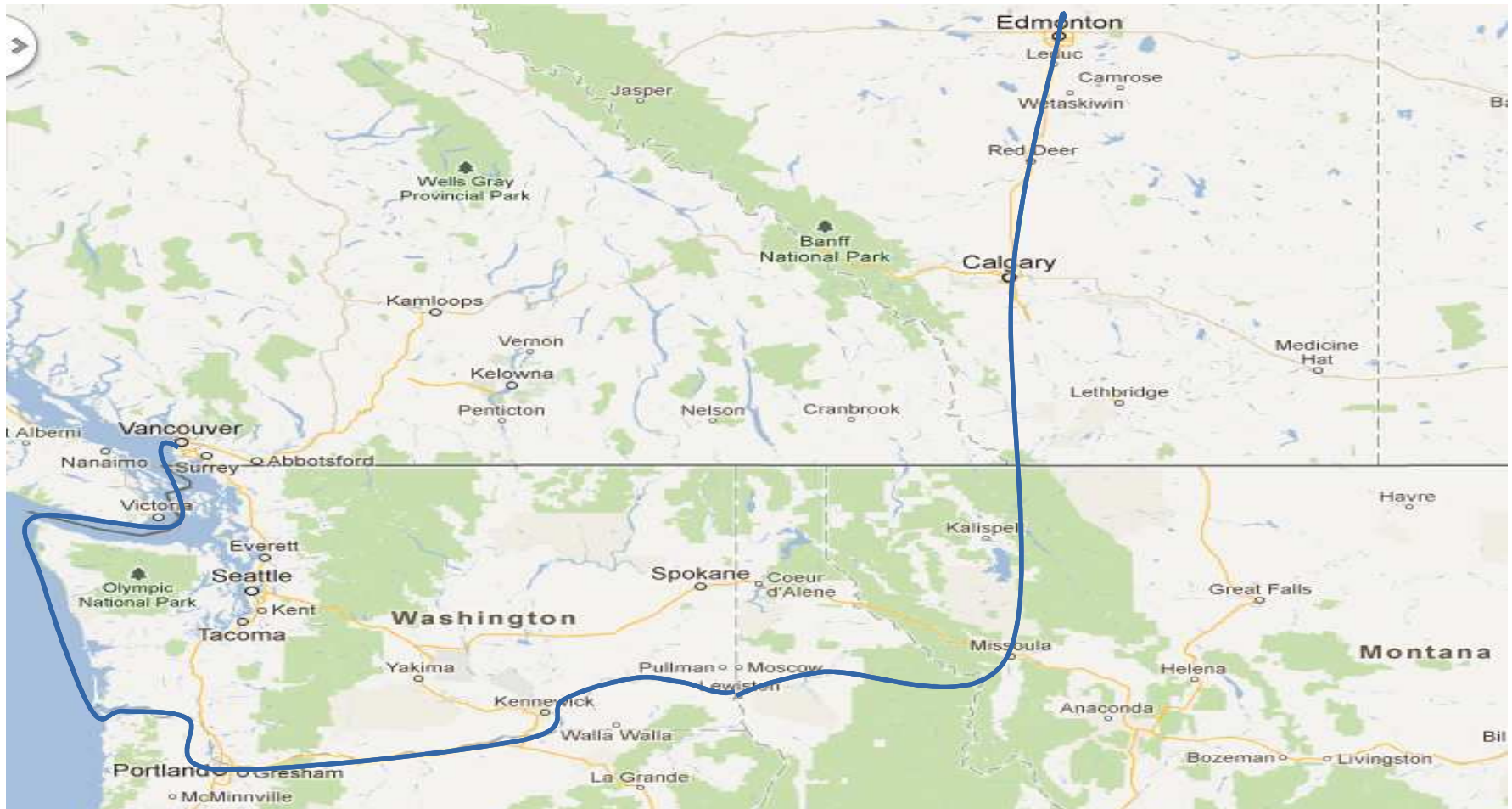
Height: 19'

Width: 19'

Weight: approx. 58,000 lbs



Oversized cargo Vancouver, BC – Vancouver, WA – Lewiston, ID....





Oilfield equipment (made in BC, Canada)





Oilfield equipment (made in BC, Canada)





Oilfield equipment (made in BC, Canada)





Questions?

Thank you for your attention