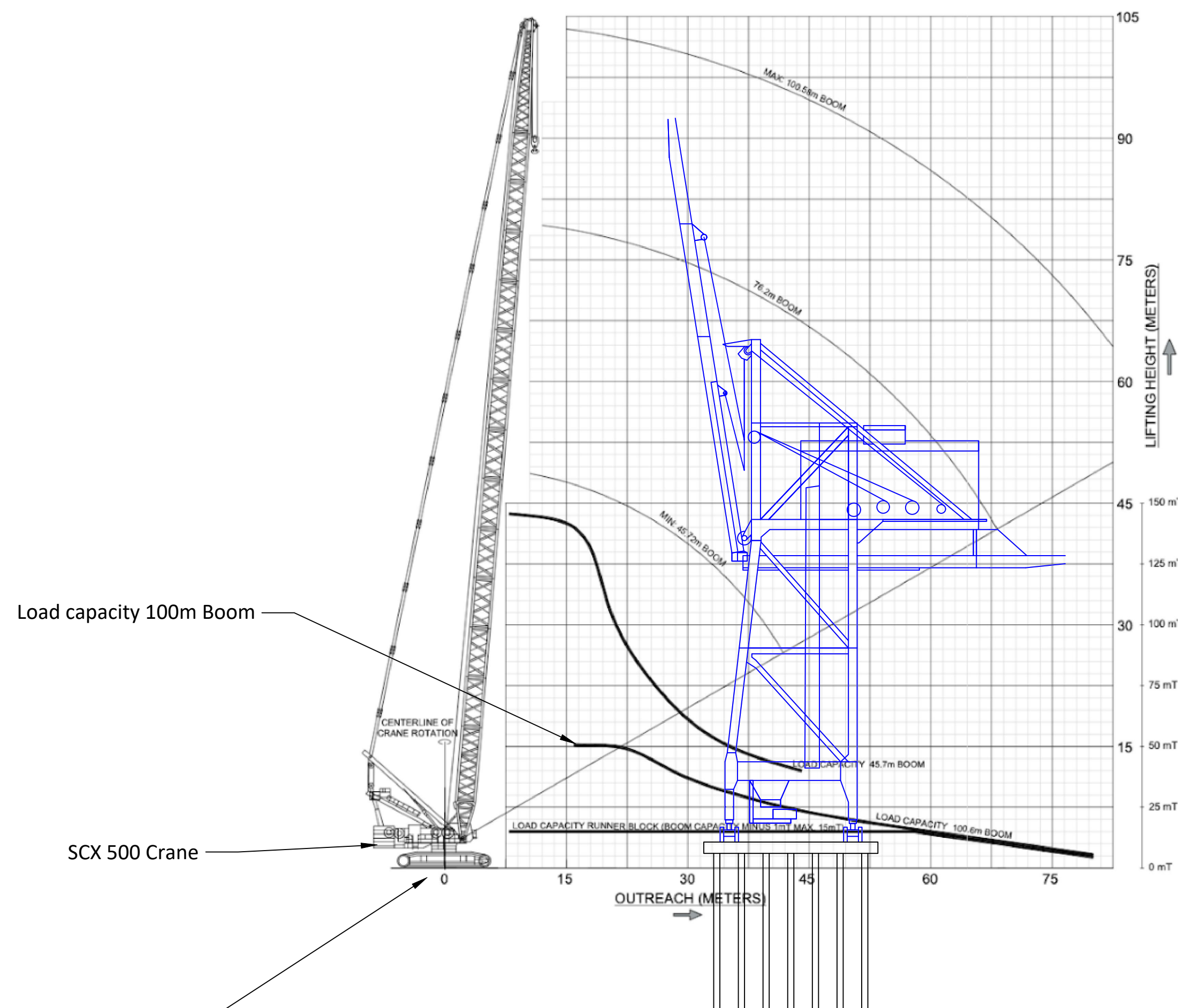
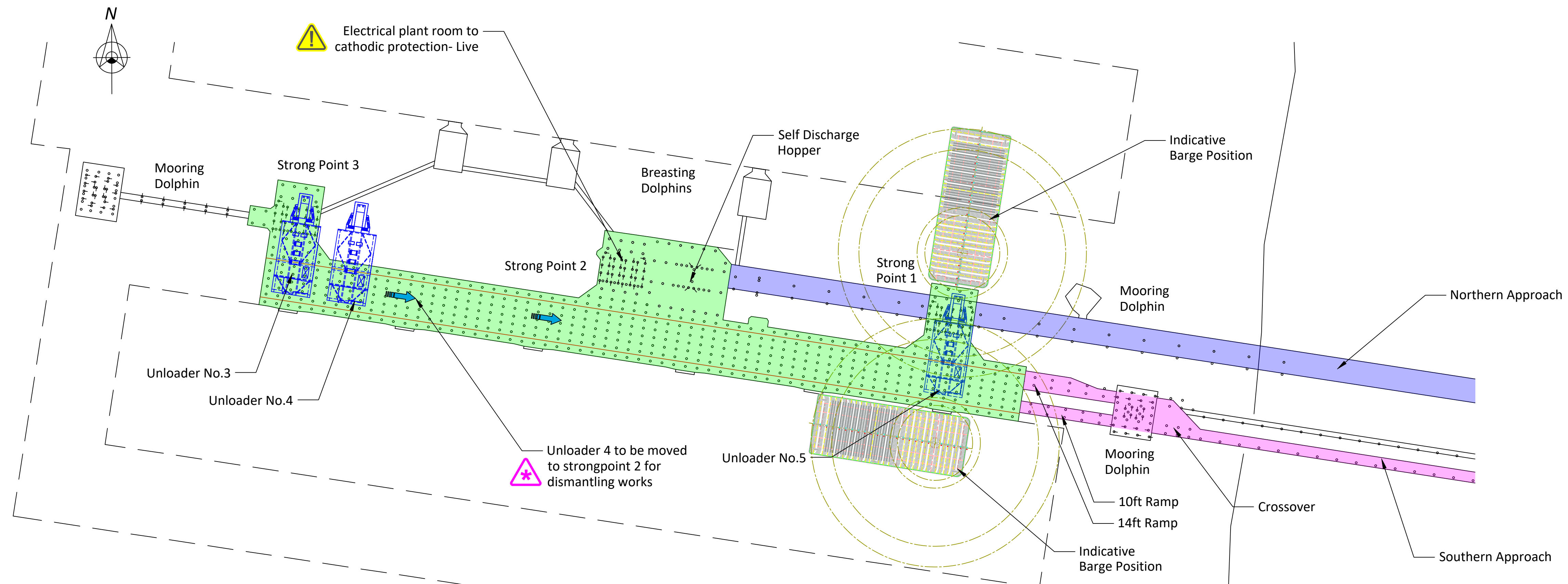




Barge positioned at Mean Neap High Tide. Barge not shown.

P03	28-08-2025	Draft
P02	15-08-2025	Draft
P01	14-08-2025	Draft
Rev	Date	Status

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Warning symbols: Red circle, Orange circle, Green circle, and a yellow triangle with an exclamation mark.

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Designed By DS	Date 28-Aug-2025	Checked By DS	Date 28-Aug-2025
Filename AEC-32094-3		Suitability S2	Scale As Shown
Drawing Title Iron Ore Unloader Demolition Methodology General Arrangement			
Drawing Number 32094-3-TDS-PTJ-IOU-DRAW-02-001 P03			Sheet 1/6



All weights have been taken from the report by Stothert and Pitt based on the OEM detail drawings not made available to Andun. These are assumed to be accurate.

CoG when lifting and operational

2. Shuttle Trolley and Cab to be removed

Daggers should be lashed down with 5 tonne ratchet straps or similar to prevent accidental release.



During the inspection, the boom was held on the boom winch. The boom should be lowered onto the daggers in a controlled way prior to removing the boom hoist winch cables.



Boom is to be at minimum outreach, placed in upright position.

CoG moves a further 2.2m back under wind loading.

Note - Grab and hoist ropes already removed. Where removal is not possible, these should be removed between Phase 3 & 4

1. Main trolley, Hook blocks and winch ropes to be removed.
- Main trolley - 14te
- Cab - 4.4te
- Shuttle Trolley - 14.3te
- Grab and Contents - 15te
- Miscellaneous - 11.3te

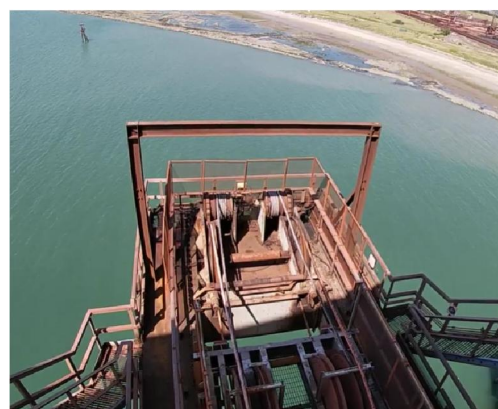
Access tower to be removed piecemeal as demolition progresses - Total Weight - 22te

Top of dock is 7.925m above OD Newlyn level

GA - Boom Down
Scale 1:400

Enabling Works
Scale 1:400

Lift 1.1 - Portion of Rear Boom - 20 Tonnes



Lift 2.1 - Total - 42 Tonnes for total machine house structure excluding floor.

Machine house walls to be removed to 1.2m above deck level to provide edge protection during winch removal

3No. Winches inside Machinery house to be removed individually. Each of these lifts is assumed to be returnable.

CoG to be determined for each individual lift.

Winch under the beam may require skating out prior to lifting. If not possible, lift 3.3 can be carried out following the removal of the boom and apex steelwork (Phase 11)

Unknown centre of gravity of rear end of rear boom due to pulleys at rear. Likely to be towards rear of section.

Tension ties

Phase 1
Scale 1:500

4 Point lift with lifting beams is advised if both beams are to be removed together as booms are not braced adjacent to tension ties. Tension ties MUST NOT be cut.



Non-returnable Lift

Phase 2
Scale 1:500

The machinery house is to be progressively deconstructed. COG post removal is shown and the lift weight for the entire structure.



Non-returnable Lift

CoG of lifts



CoG of remaining structure

Phase 3
Scale 1:200

Machinery House winches to be disconnected and removed individually



All lift weights shown are unfactored and do not allow for slinging or lifting tackle.

Slinging arrangement to be detailed by the Appointed Person in the lift plan.

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SCHEME

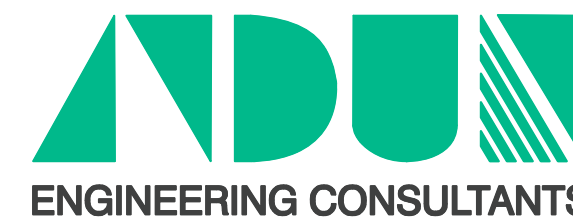


Notes

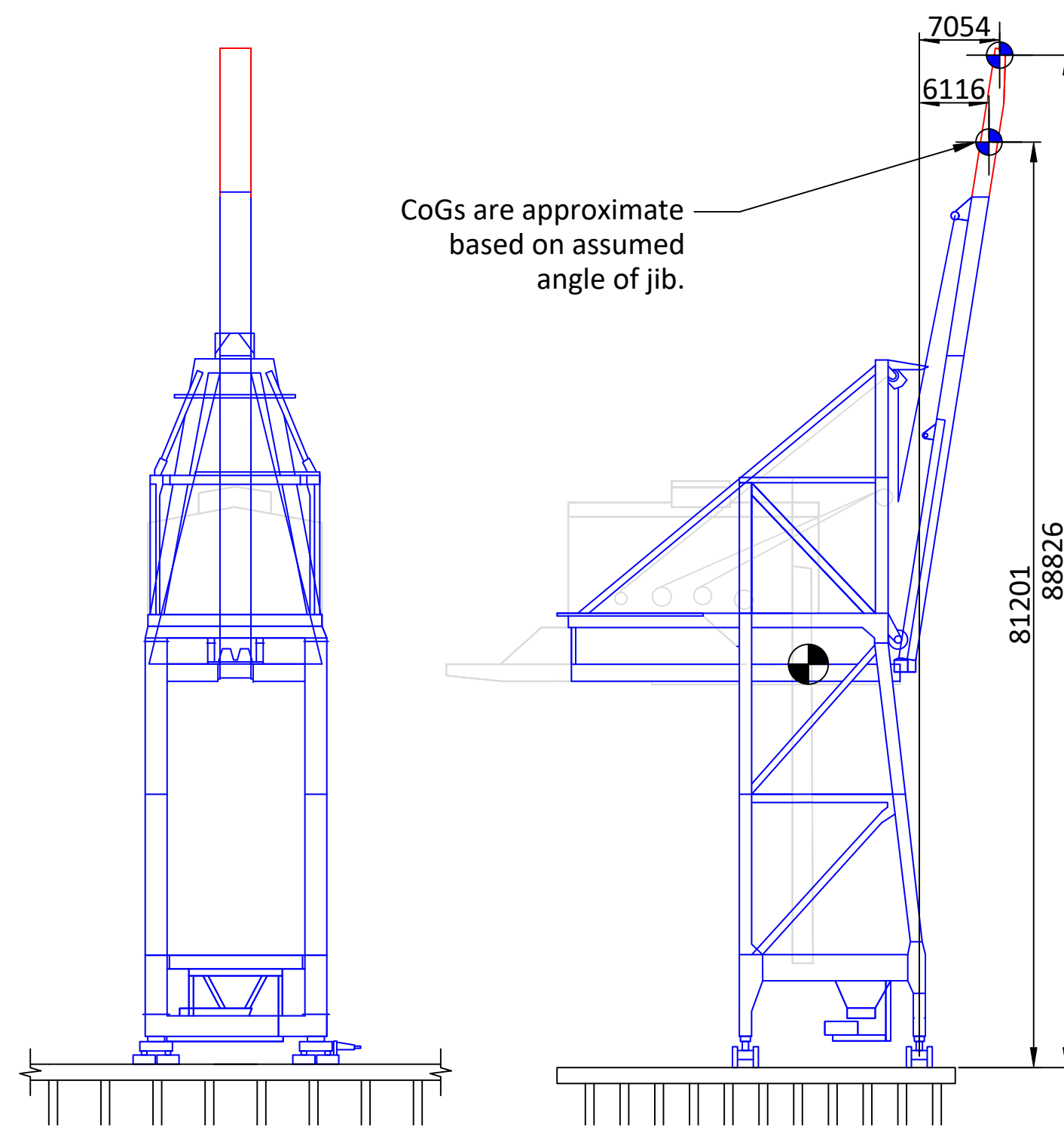
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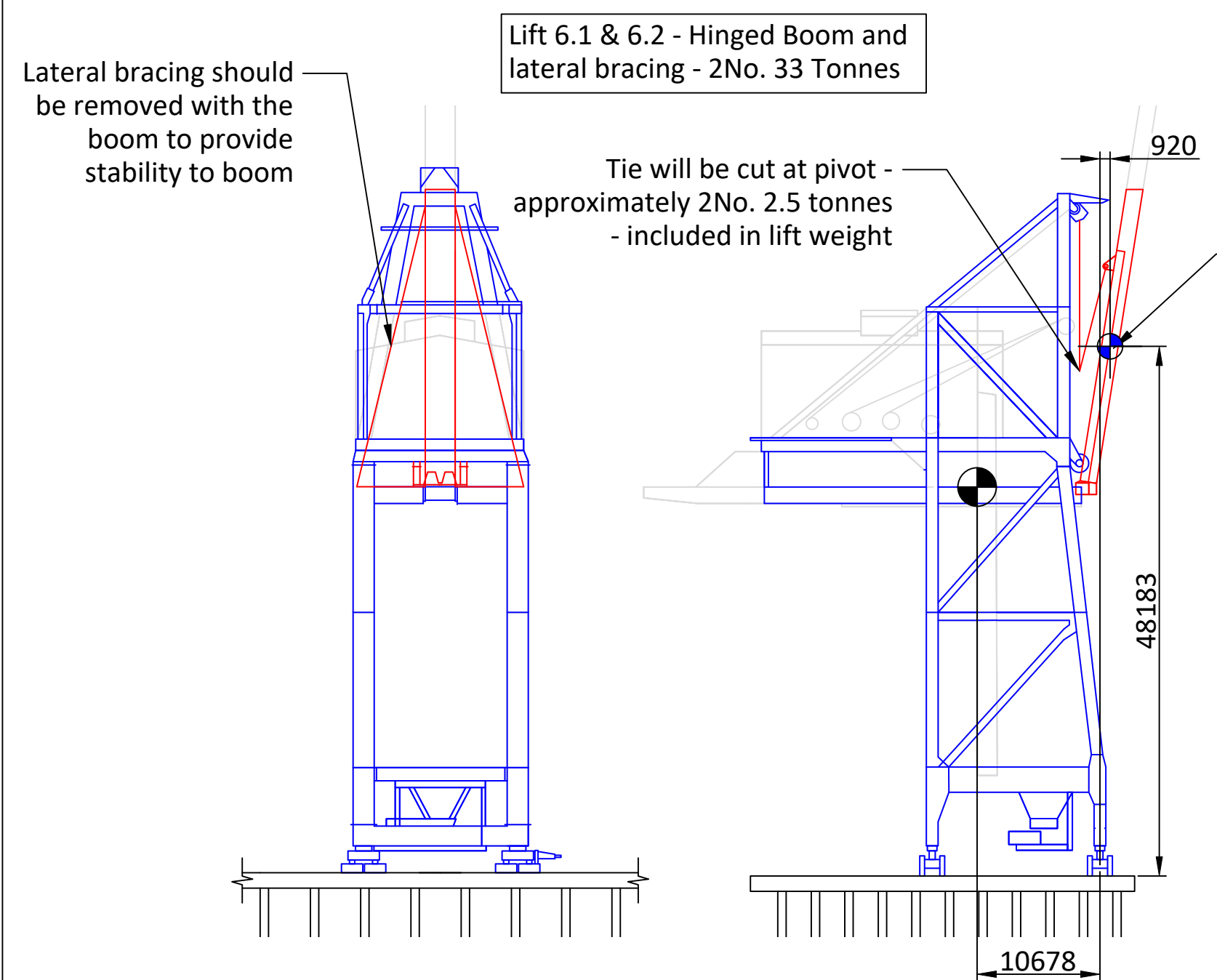
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Designed By DS	Date 28-Aug-2025	Checked By DS	Date 28-Aug-2025
Filename AEC-32094-3	Suitability S2	Scale As Shown	
Drawing Title Iron Ore Unloader Demolition Methodology Unloader 4 & 5 - Phase 1 - 3	Drawing Number 32094-3-TDS-PTJ-IU-DRAW-02-002 P02	Sheet 2/6	



Phase 4
Scale 1:500

⚠ Non-returnable Lift

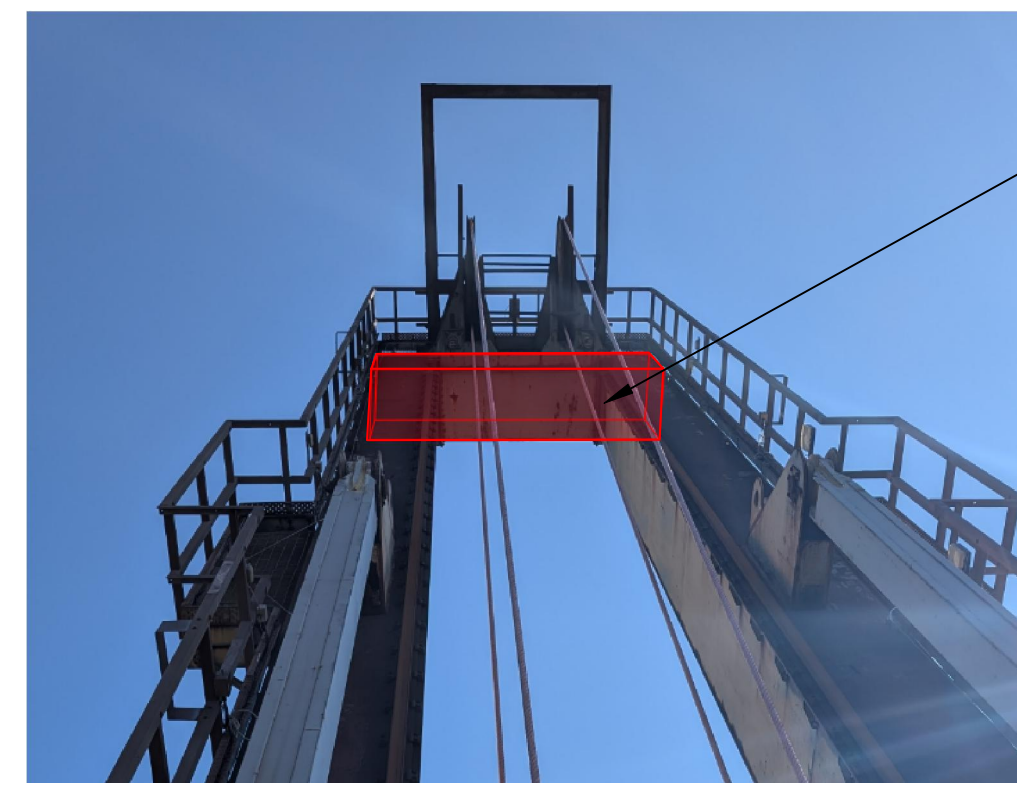
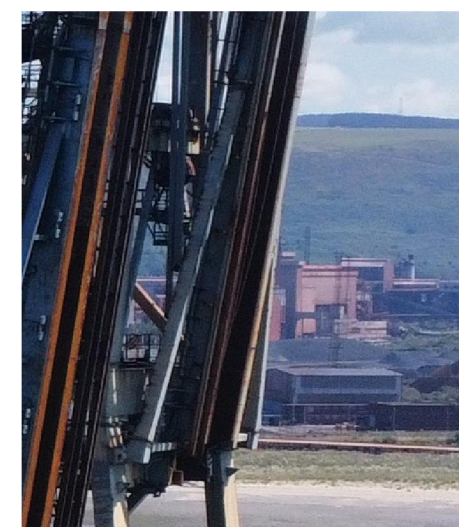
Hinged boom to be removed in 3 phases. Due to lack of access the weight distribution along the boom could not be checked. Significant weight is present at the tip of the boom and the lift plan should allow for this.



Phase 6
Scale 1:500

⚠ Non-returnable Lift

Remainder of boom removed. Tirfors to be fixed at the base of the boom. Crane to take the weight of the boom prior to the daggers being cut at the top. Following this, the pins are to be cut and Tirfors used to control the swing of the boom.



Lift 4.1 - 10 Tonnes

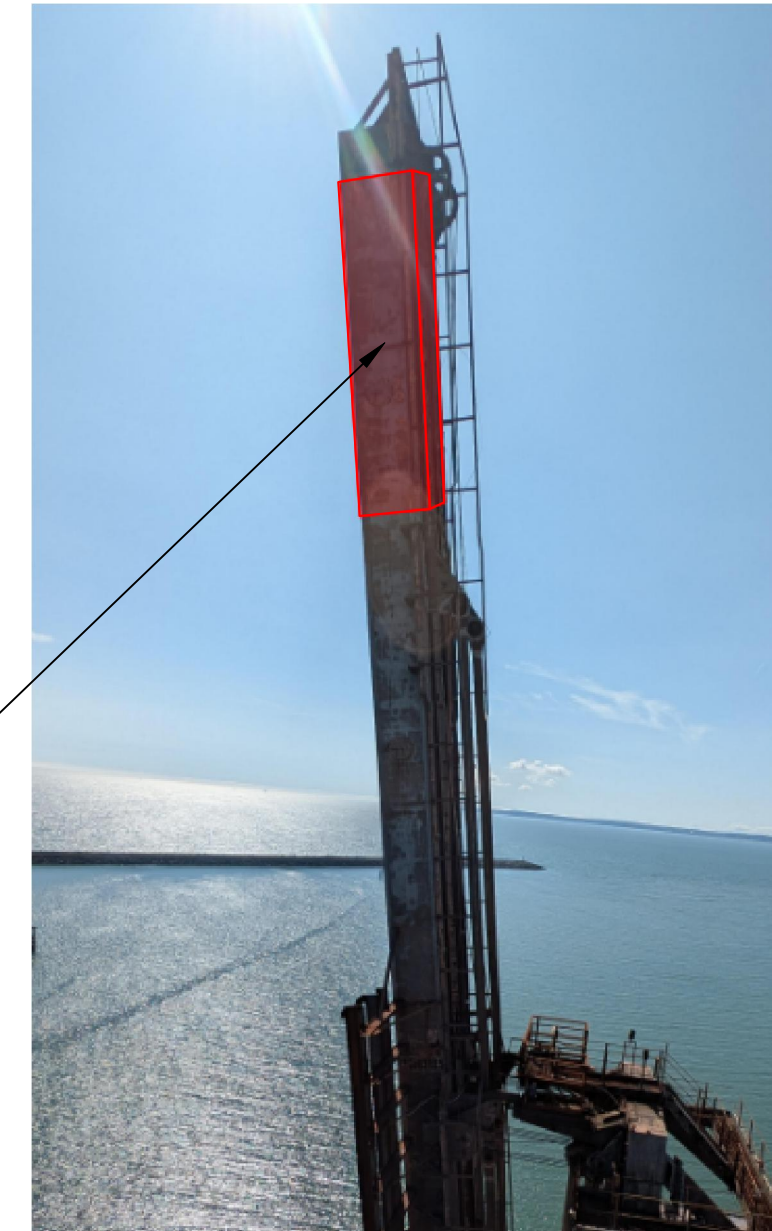
Hinged boom tip to be cut
approximate lift weight:
- 10 Tonnes

⚠ All lift weights shown are unfactored and do not allow for slinging or lifting tackle.

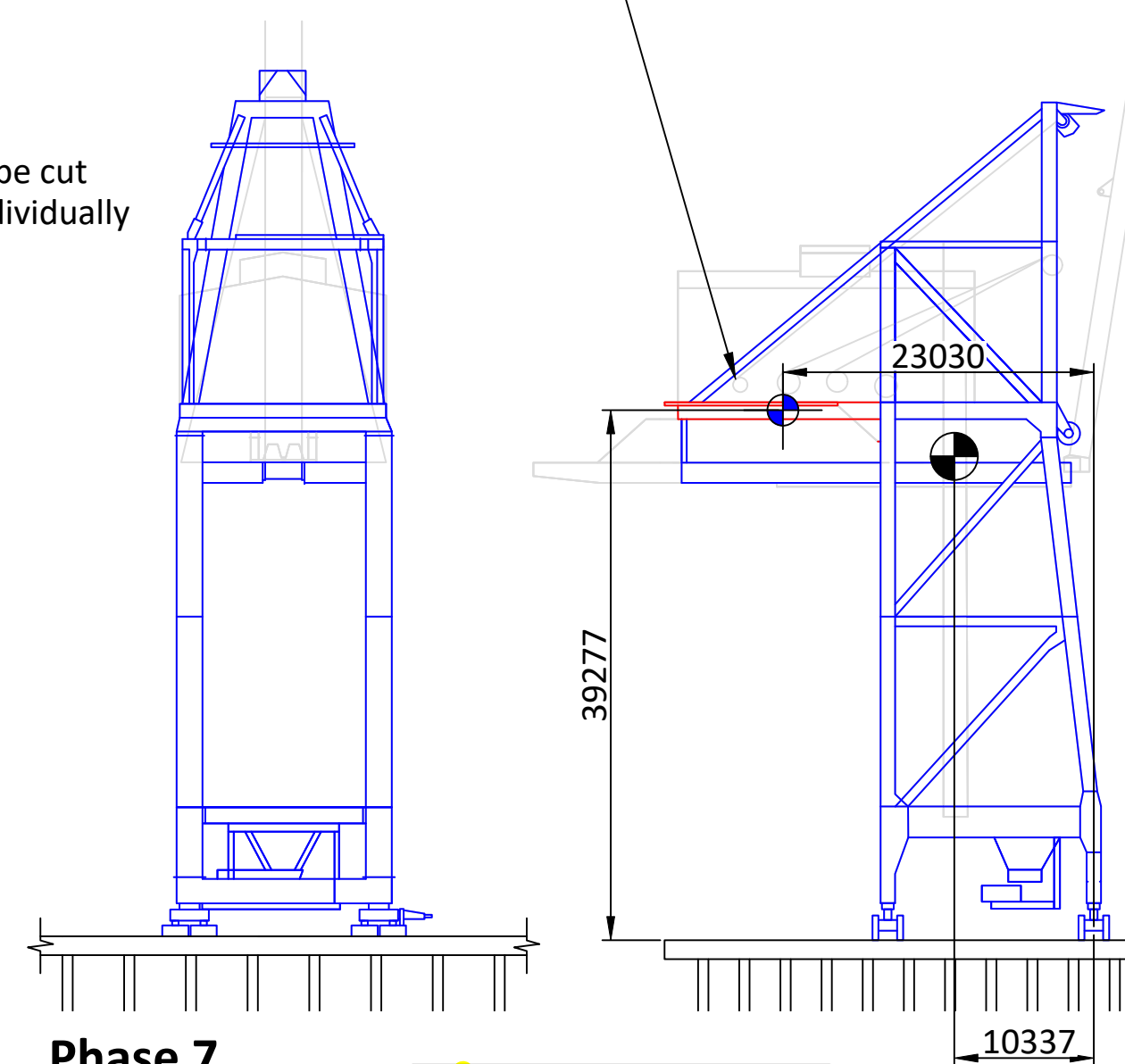
⚠ Slinging arrangement to be detailed by the Appointed Person in the lift plan.

Lift 4.2 & 4.3 - 15 Tonnes

Boom ends to be cut and removed individually
-approximate lift weight:
2No. 15 Tonnes



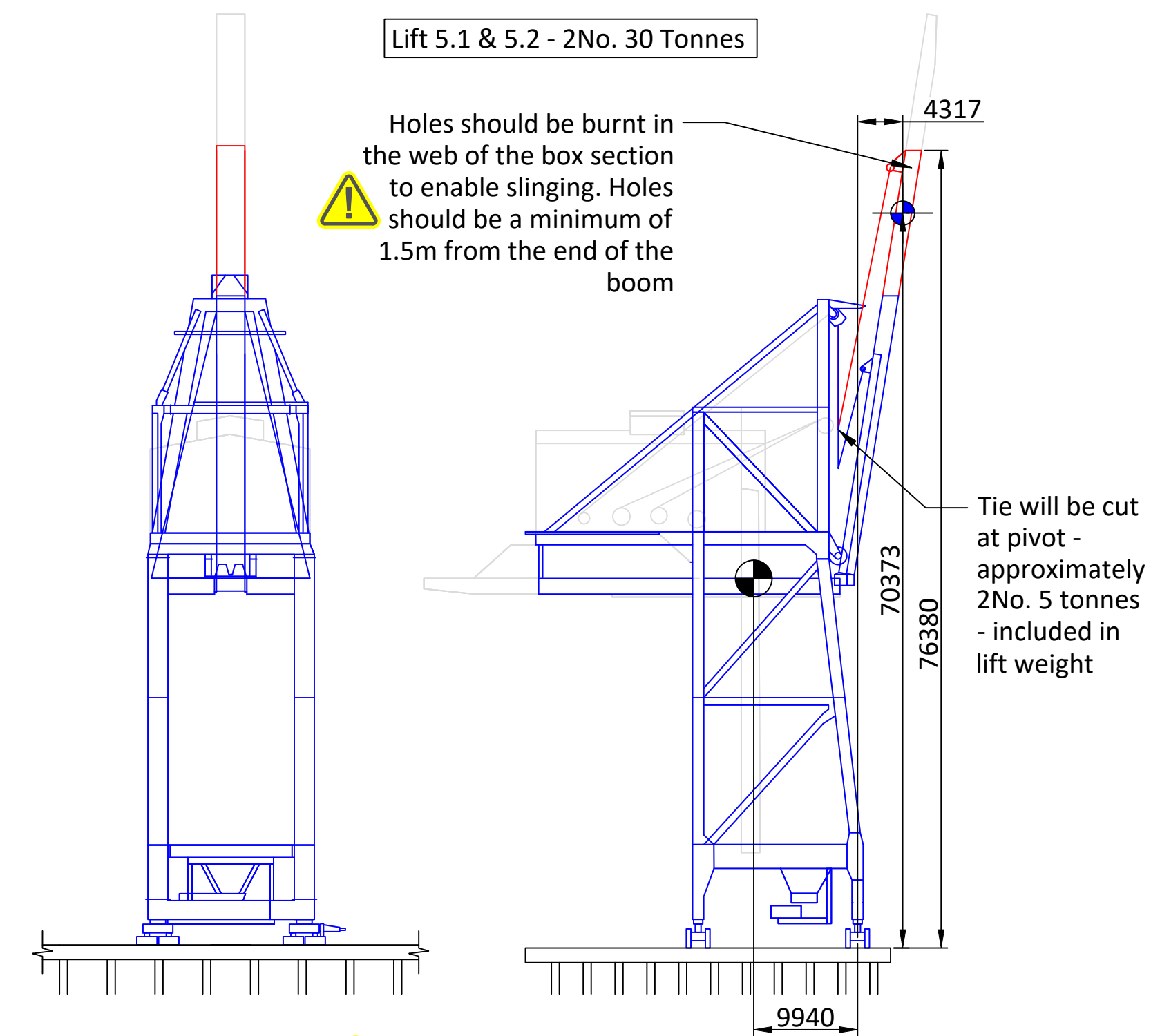
Lift 7.1 - Boom Hoist Winch - 18te



Phase 7
Scale 1:500

⚠ Non-returnable Lift

Machinery House floor removed piecemeal followed by the internal Machinery level girders.



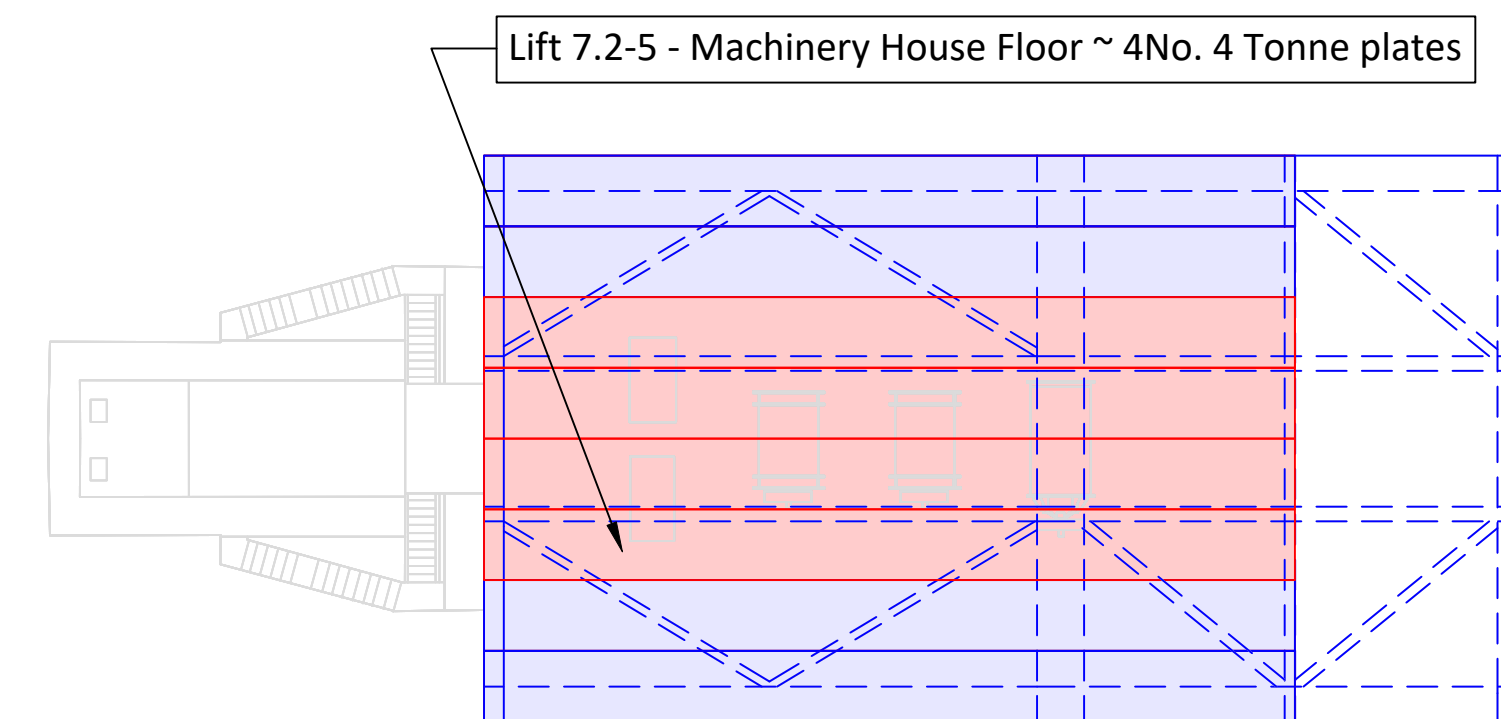
Phase 5
Scale 1:500

⚠ Non-returnable Lift

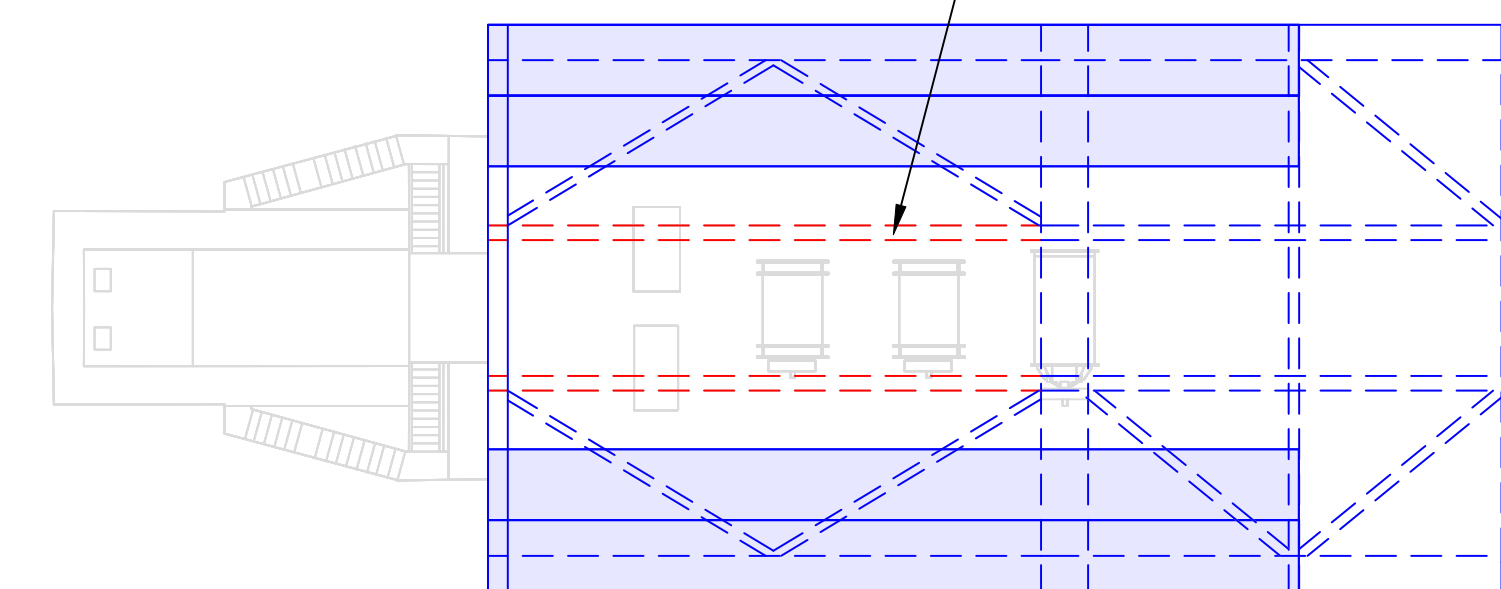
Stays to be lifted with boom.

⚠ CoG of lifts

⚠ CoG of remaining structure



Lift 7.6 & 7.7 - Machinery Level Bracing - 4 Tonne



Plan View - Machinery House Floor
Scale 1:200

P02	15-08-2025	Draft
P01	14-08-2025	Draft
Rev	Date	Status

⚠ DRAFT SCHEME

⚠

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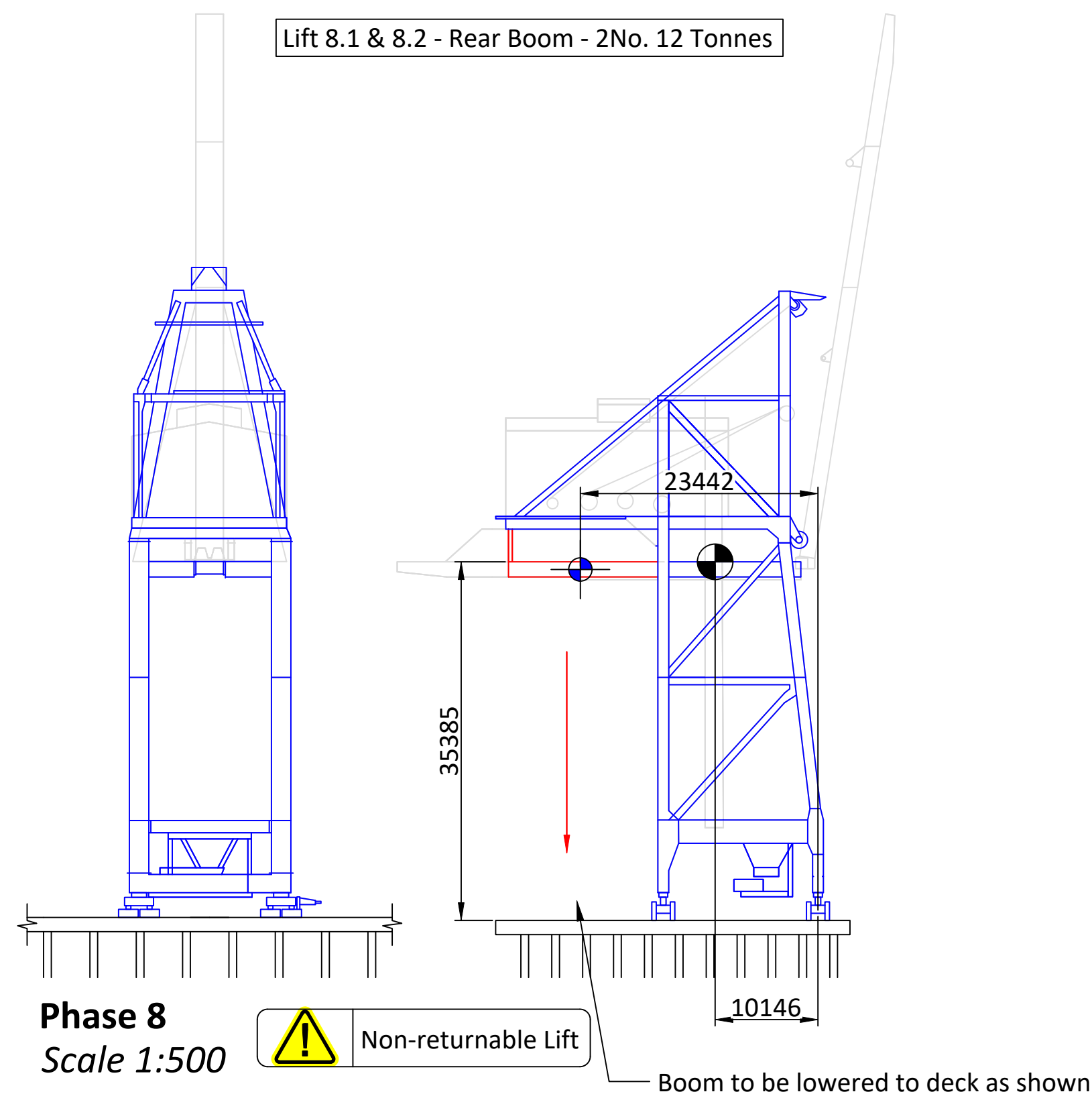
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DS	28-Aug-2025	DS	28-Aug-2025

Filename	Suitability	Scale
AEC-32094-3	S2	As Shown

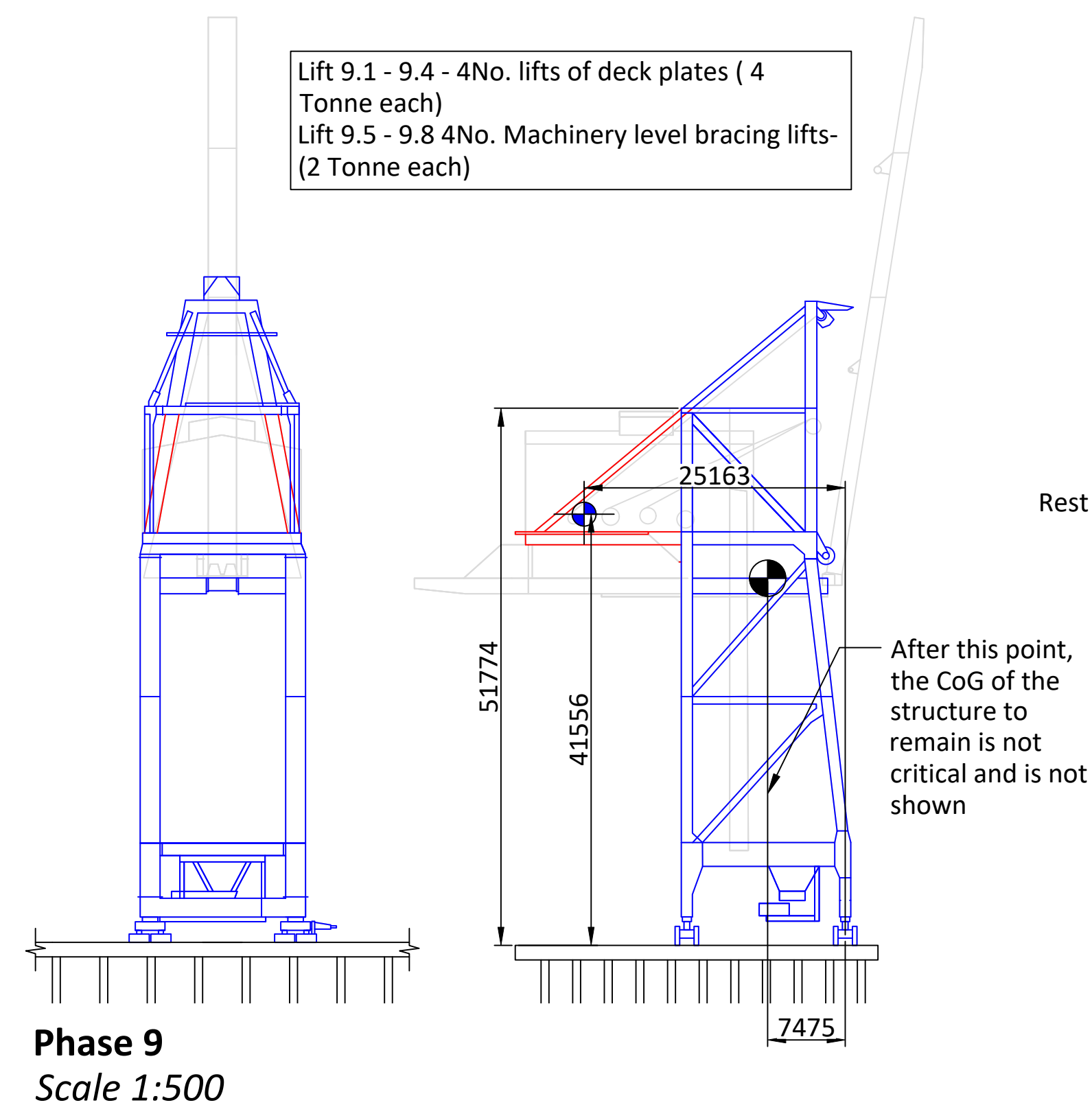
Drawing Title
Iron Ore Unloader Demolition Methodology
Unloader 4 & 5 - Phase 4 - 7

Drawing Number
32094-3-TDS-PTJ-IOU-DRAW-02-003 P02

Sheet
3/6



Crane to take the weight of the boom from inside the machinery house girders prior to cutting.

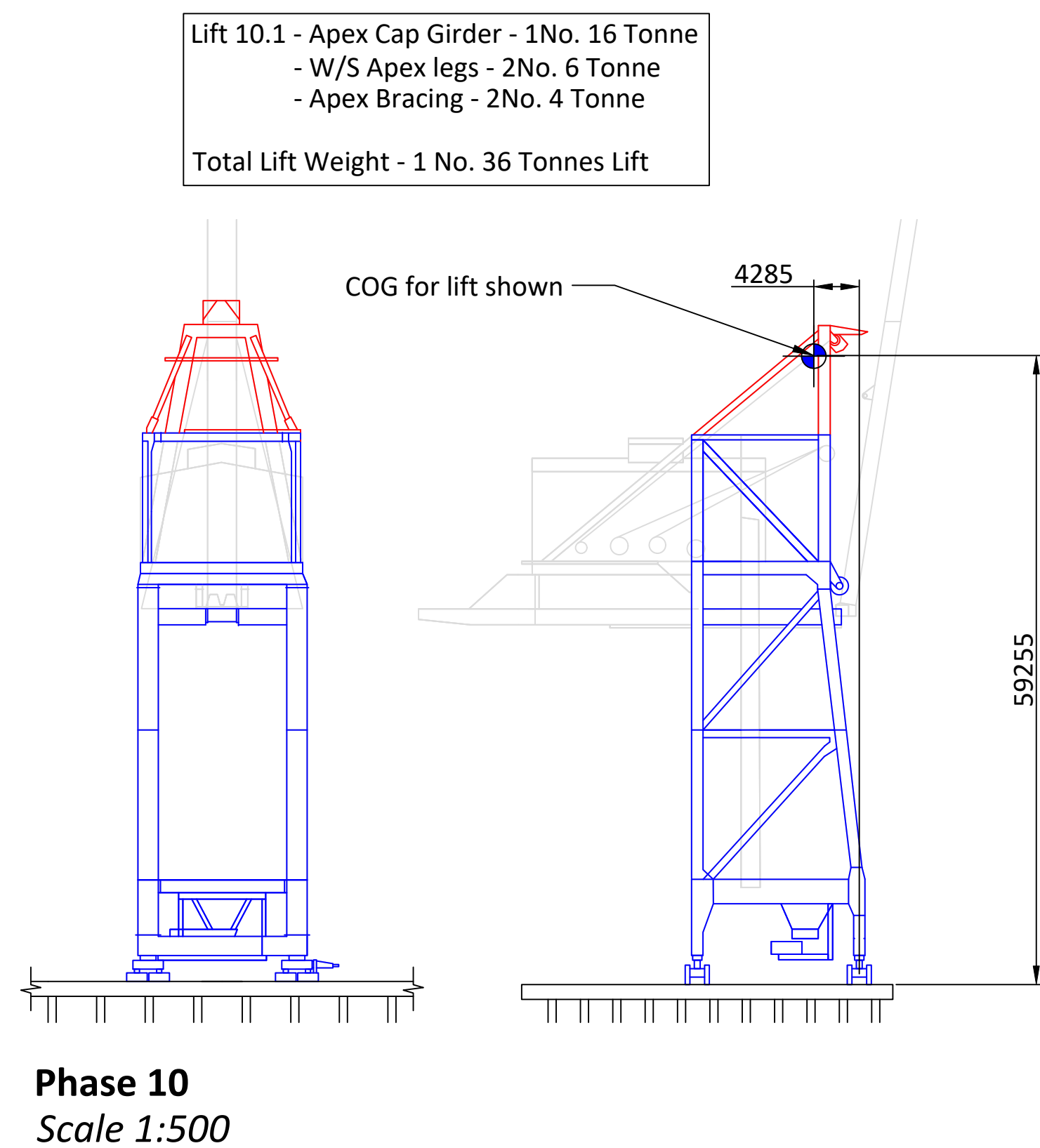


Disconnect apex bracings from the machine house girders and L/S apex legs and remove.

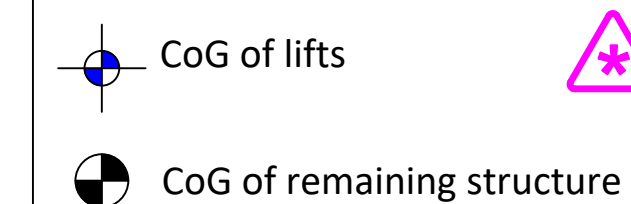
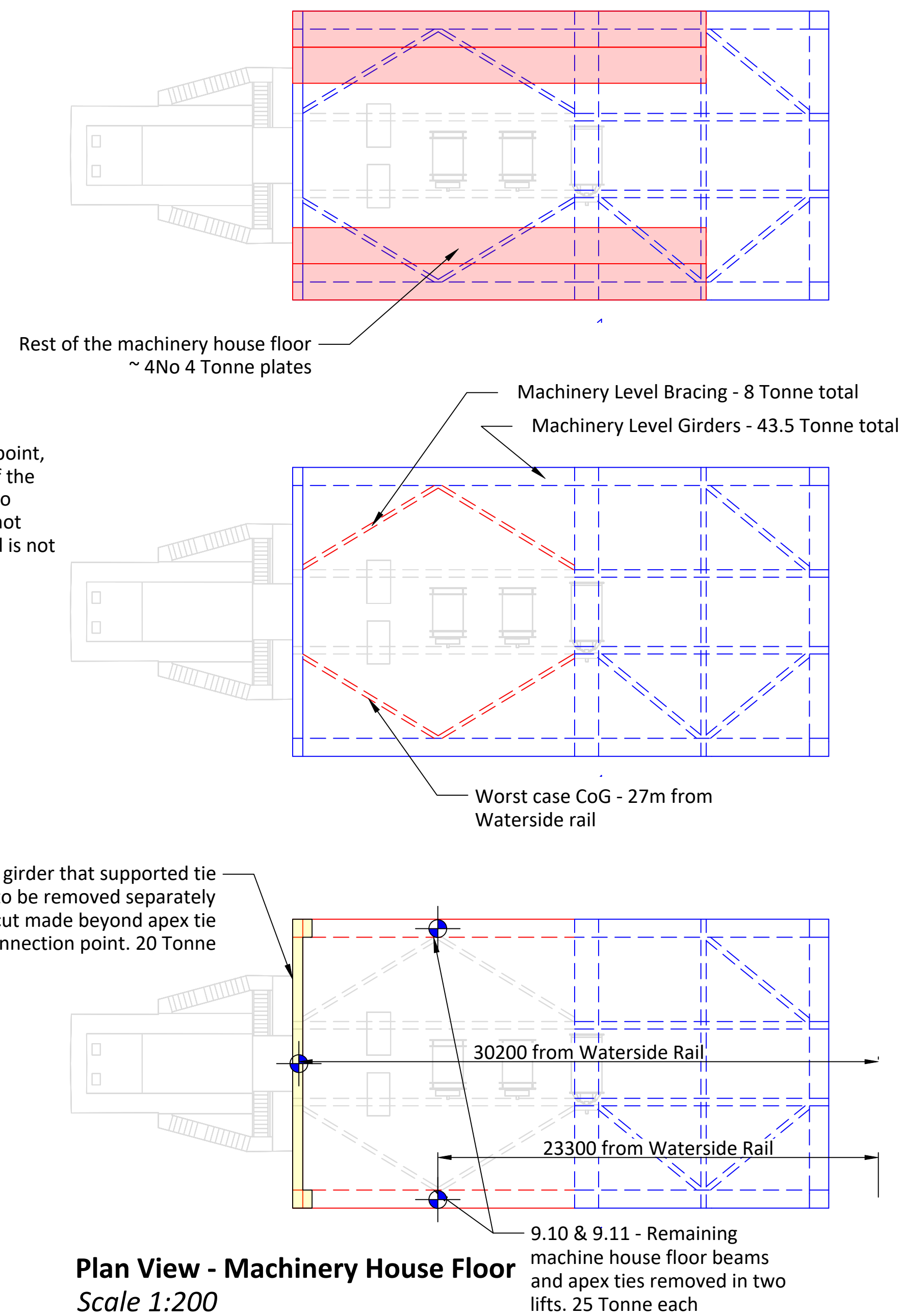
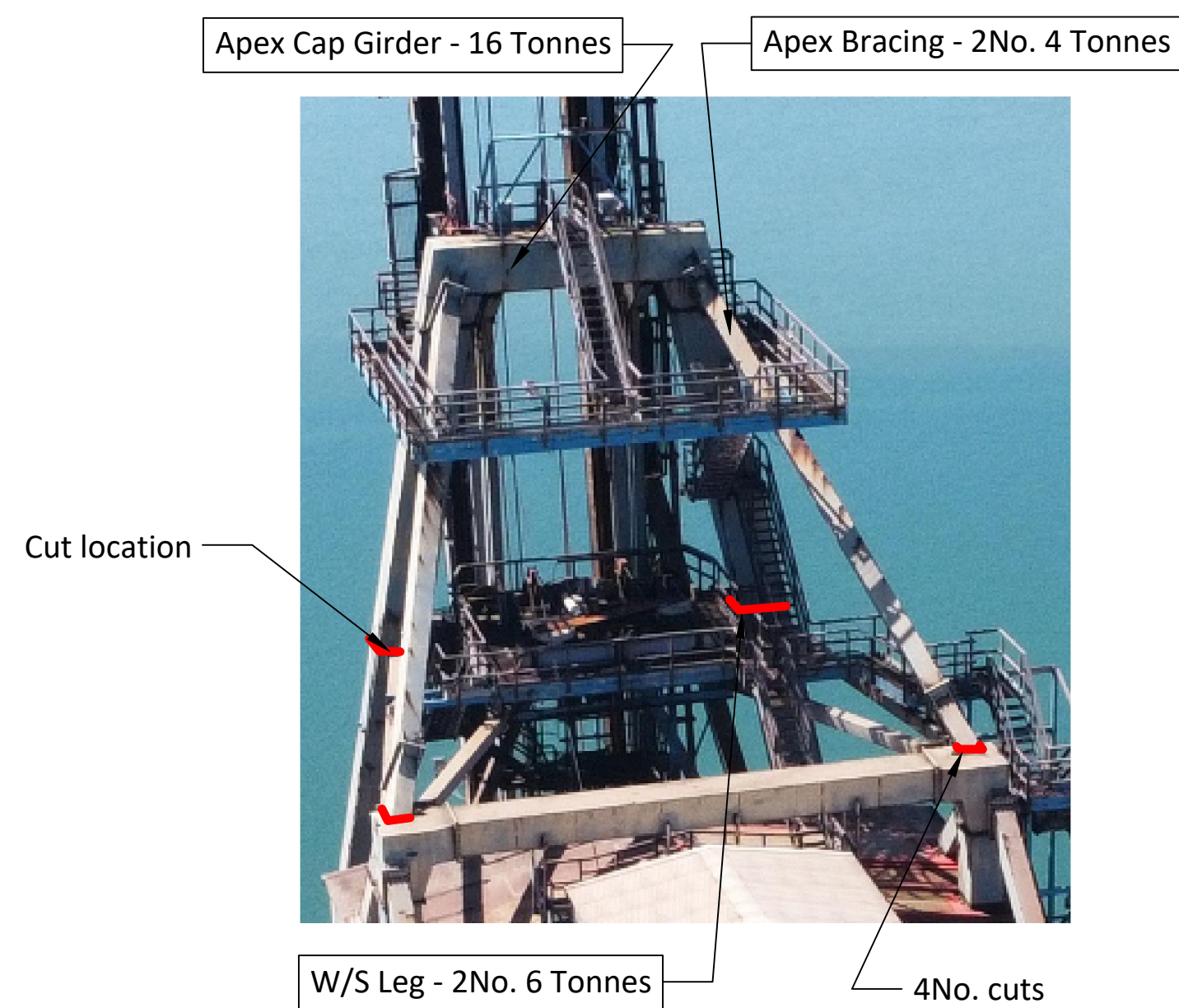


Total weight of lifts 9.9 - 9.11 consists of the following

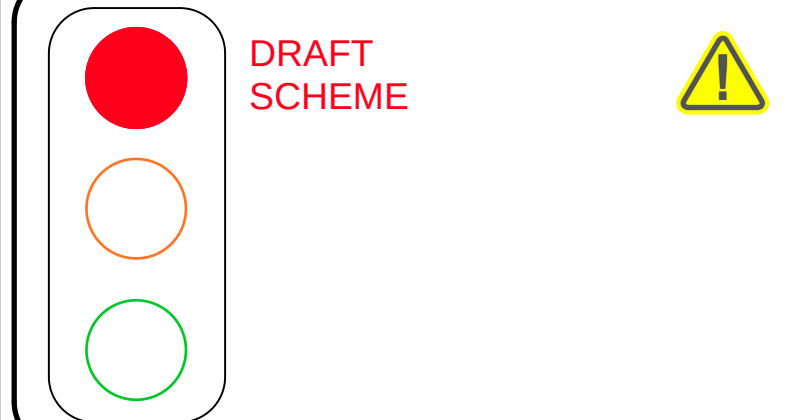
- Apex Rear Ties - 12 Tonne
- Machinery Level Girders - 43.5 Tonnes



Section to be taken as a single lift. Crane to be attached to the apex cap girder. Cuts to be made at the base of the apex bracing and the intersection between the Waterside legs and bracing then lifted.



P02	15-08-2025	Draft
P01	14-08-2025	Draft
Rev	Date	Status

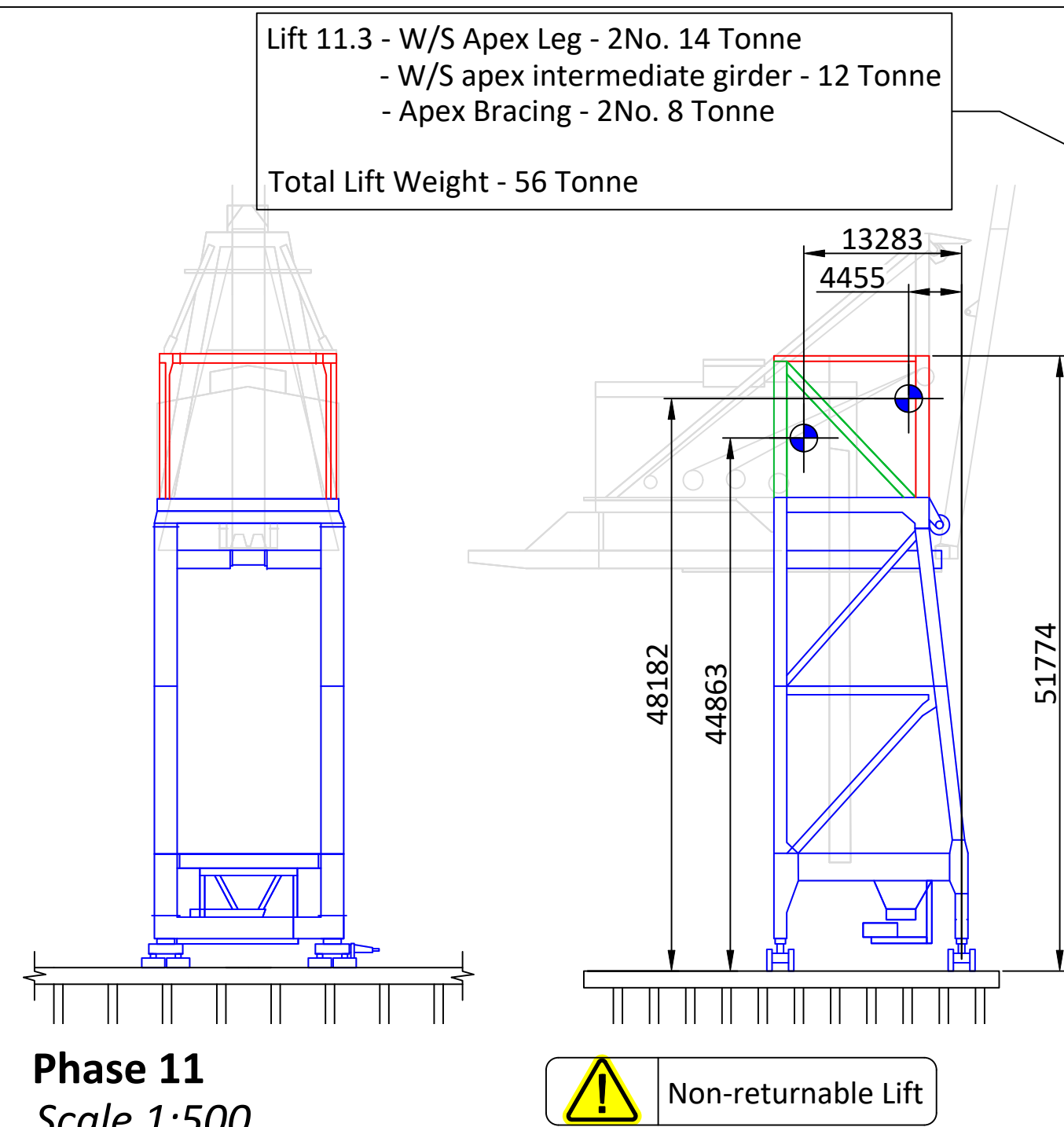


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Filename AEC-32094-3	Suitability S2	Scale As Shown	
Drawing Title Iron Ore Unloader Demolition Methodology Unloader 4 & 5 - Phase 8 - 10			
Drawing Number 32094-3-TDS-PTJ-IU-DRW-02-004 P02			Sheet 4/6

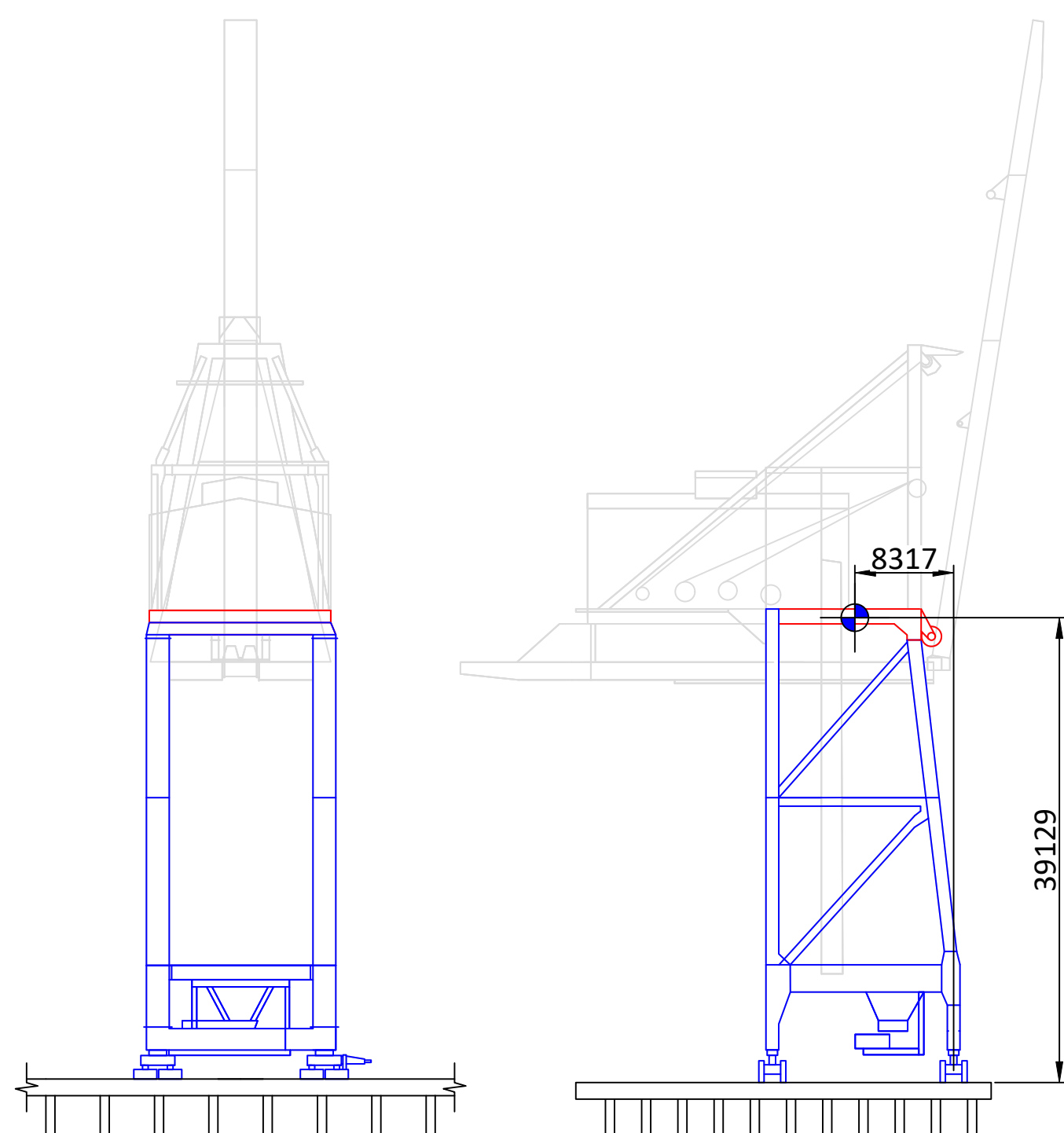


Crane to take the weight of the Apex girders before disconnecting and removing.
11.1 & 11.2 - Apex Plan Bracing (Yellow)
11.3 - Apex cap girder and W/S leg (Red)
11.4 - Apex brace and L/S leg (Green)



All lift weights shown are unfactored and do not allow for slinging or lifting tackle.

Slinging arrangement to be detailed by the Appointed Person in the lift plan.

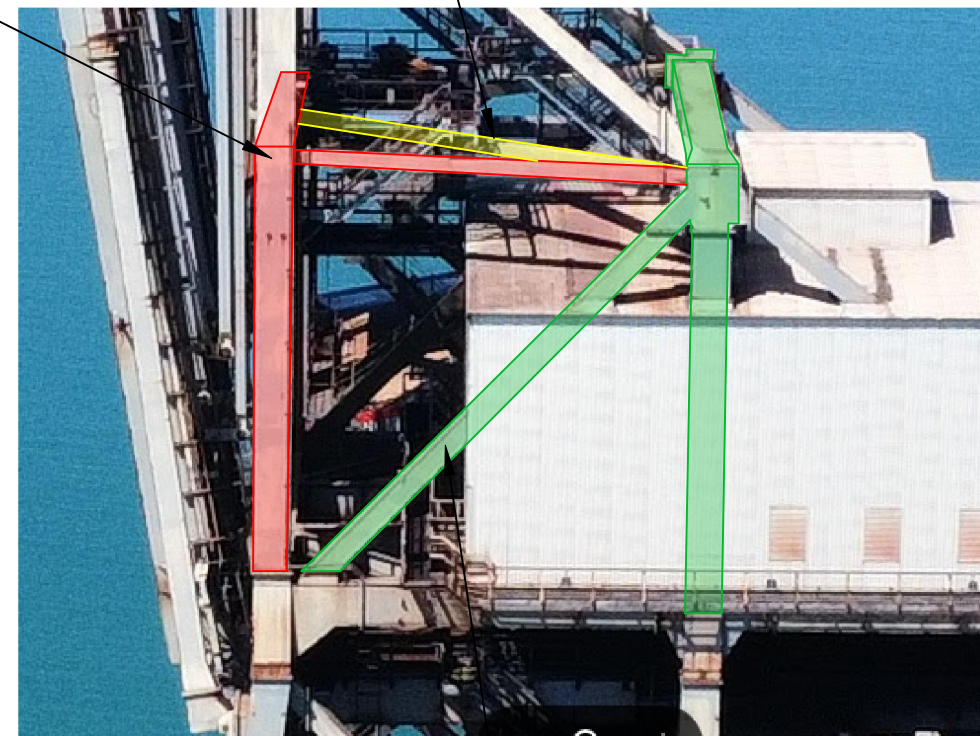


Phase 13
Scale 1:500

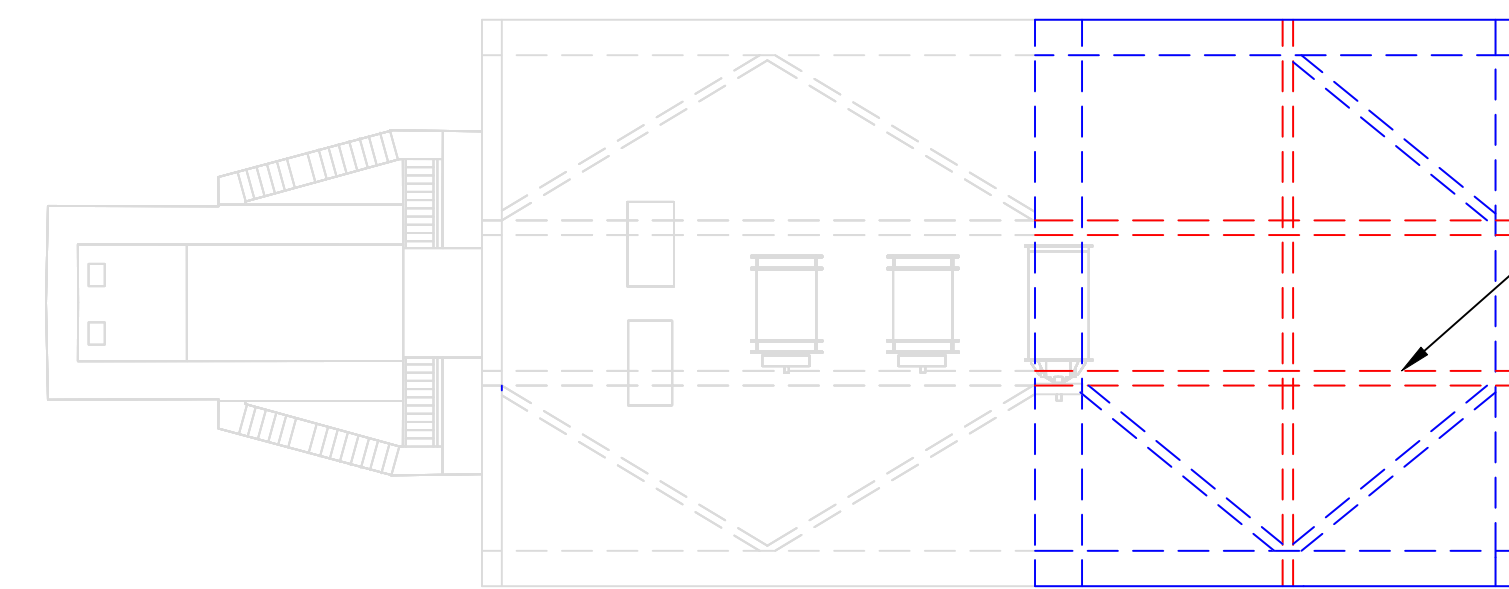
⚠ Non-returnable Lift

Remaining Machinery house level Girder to be cut and removed individually.

Lift 11.1 & 11.2 - Apex Plan Bracing - 2No 3 Tonne Lifts



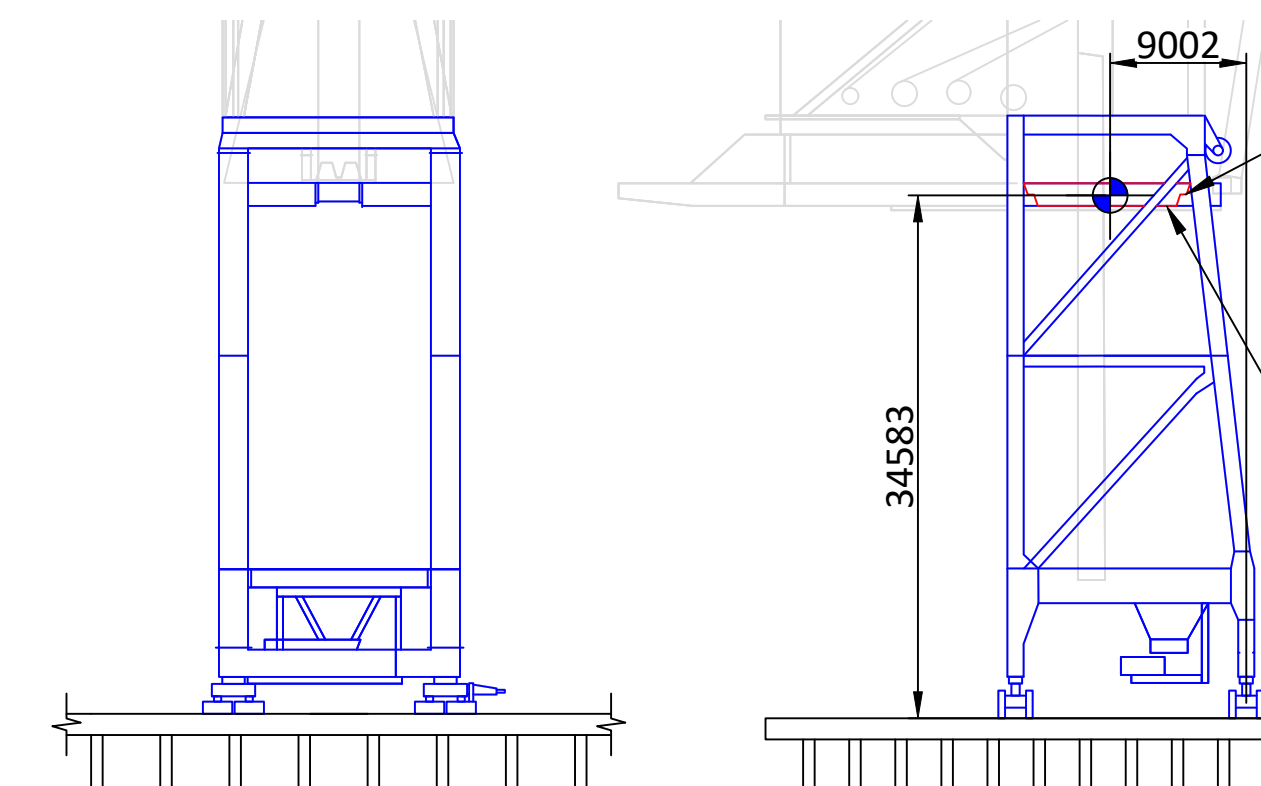
Lift 11.4 - L/S Apex Leg - 2No. 4.5 Tonne
- L/S apex intermediate girder - 13 Tonne
- Apex Bracing - 2No. 8 Tonne
Total Lift Weight - 38 Tonne



Lift 12.1 - 12.3 - Machinery Level Bracing - 3No 4 Tonne Lifts



Non-returnable Lift



Sit cuts on the central boom to allow it to be removed upwards



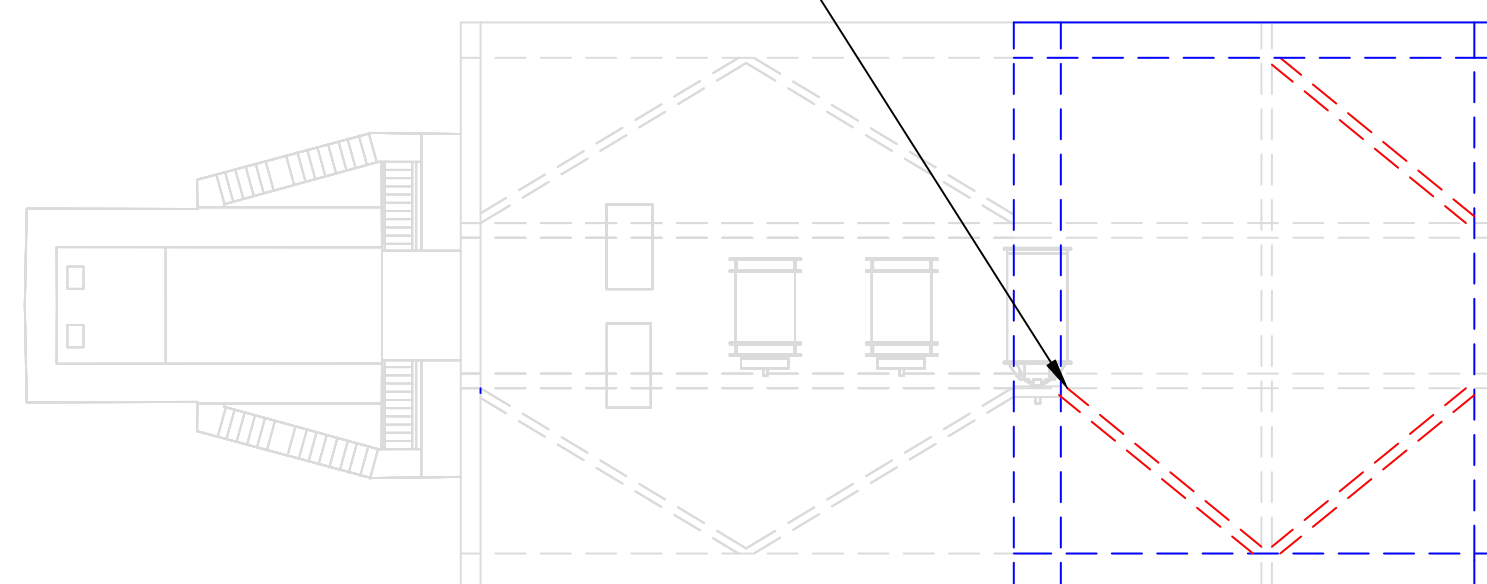
Lift 12.4 - Centre Boom - 1No 40 Tonne lift

Phase 12
Scale 1:500

⚠ Non-returnable Lift

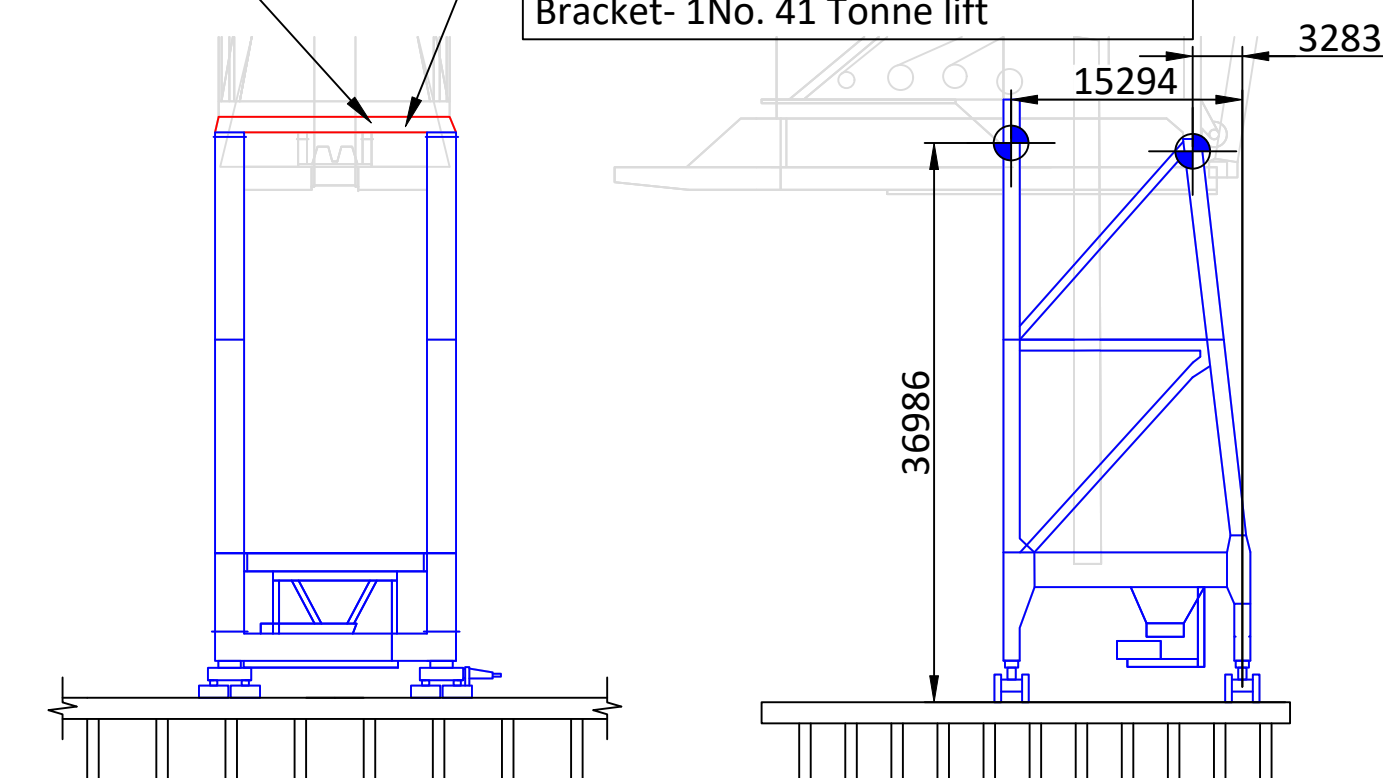
Remaining Machinery house level bracing to be removed to allow the central boom to be dropped.

Lift 13.1- 13.3 - Machinery house level bracing - 3No 2 Tonne lifts



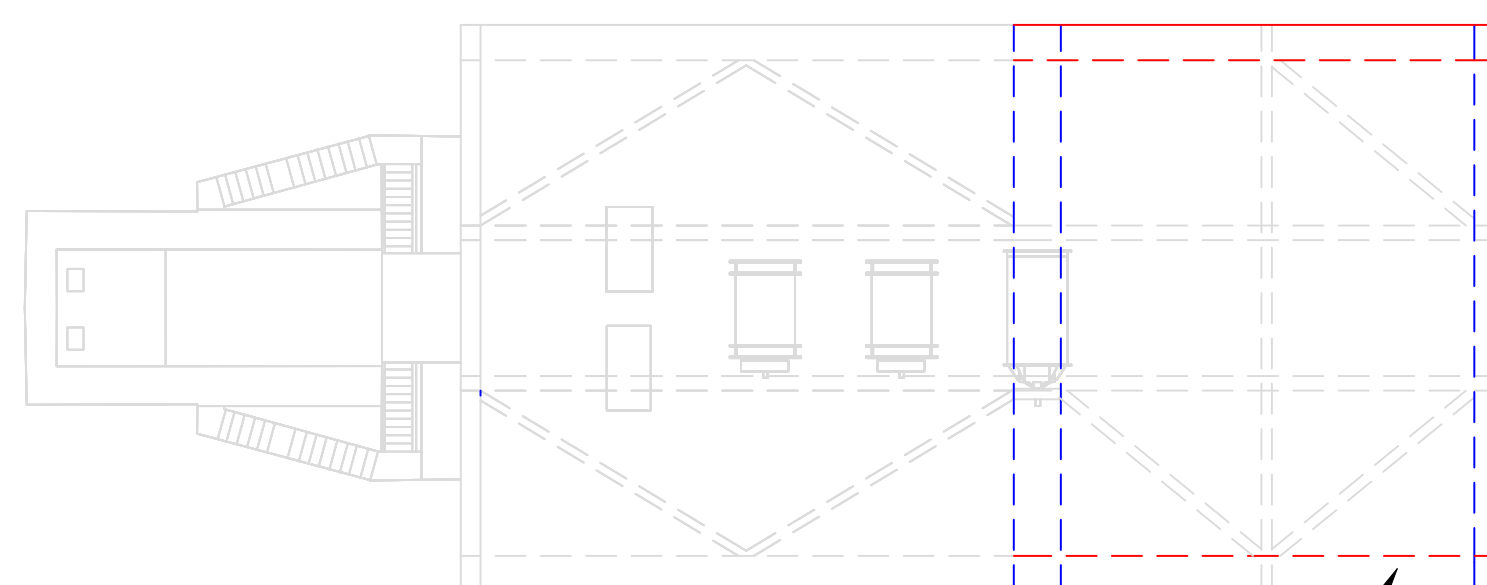
Lift 14.1 - W/S Cap Girder & Front Boom Bracket - 1No. 38 Tonne lift

Lift 14.2 - L/S Cap Girder & Rear Boom Bracket- 1No. 41 Tonne lift



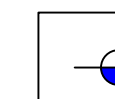
Phase 14
Scale 1:500

Front bracket and beam to be lifted off as one, Rear boom to be removed in identical fashion. Castle cuts to be undertaken on legs to enable a returnable lift.



Plan View - Machinery House Floor Level
Scale 1:200

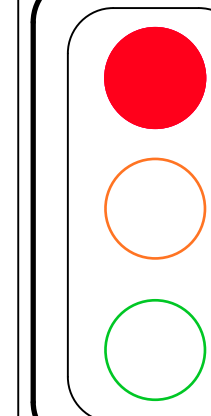
Lift 13.4 & 13.5 - Remaining Machinery House Girders - 2No. 24 Tonne Lifts



CoG of lifts



P02	15-08-2025	Draft
P01	14-08-2025	Draft
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Notes

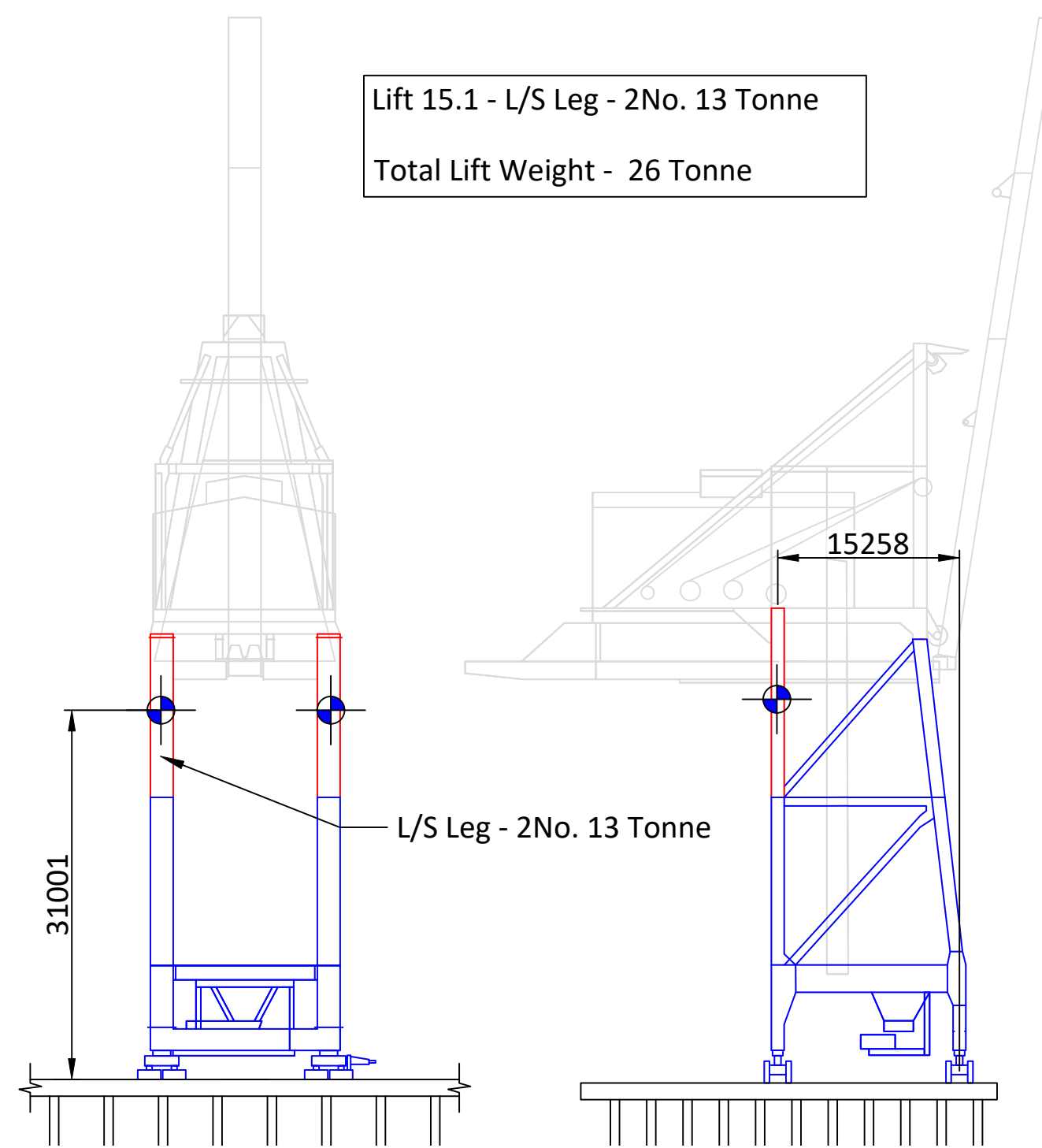
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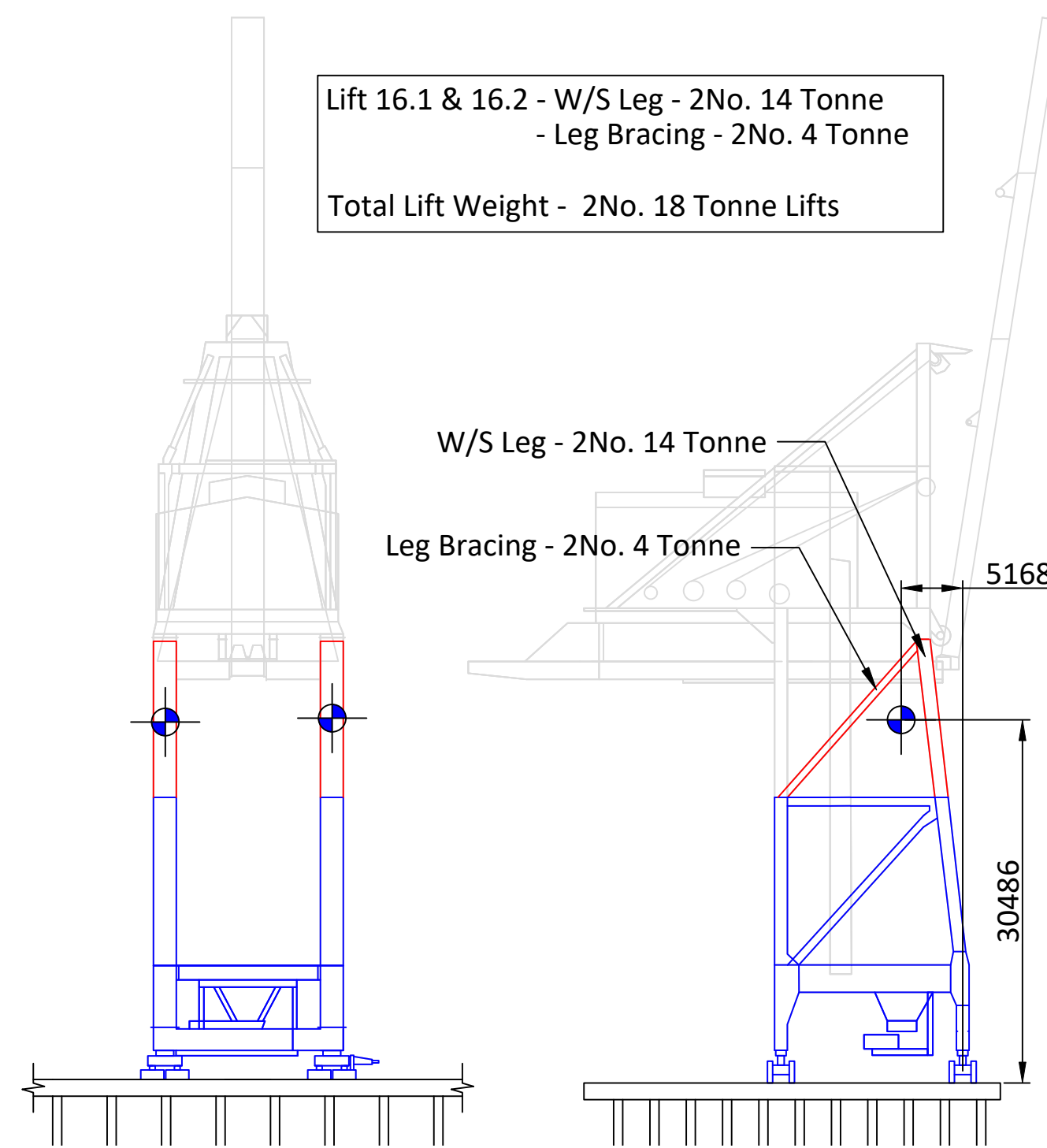
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Filename AEC-32094-3	Suitability S2	Scale As Shown	
Drawing Title Iron Ore Unloader Demolition Methodology Unloader 4 & 5 - Phase 11 - 14			
Drawing Number 32094-3-TDS-PTJ-IOU-DRAW-02-005 P02			Sheet 5/6



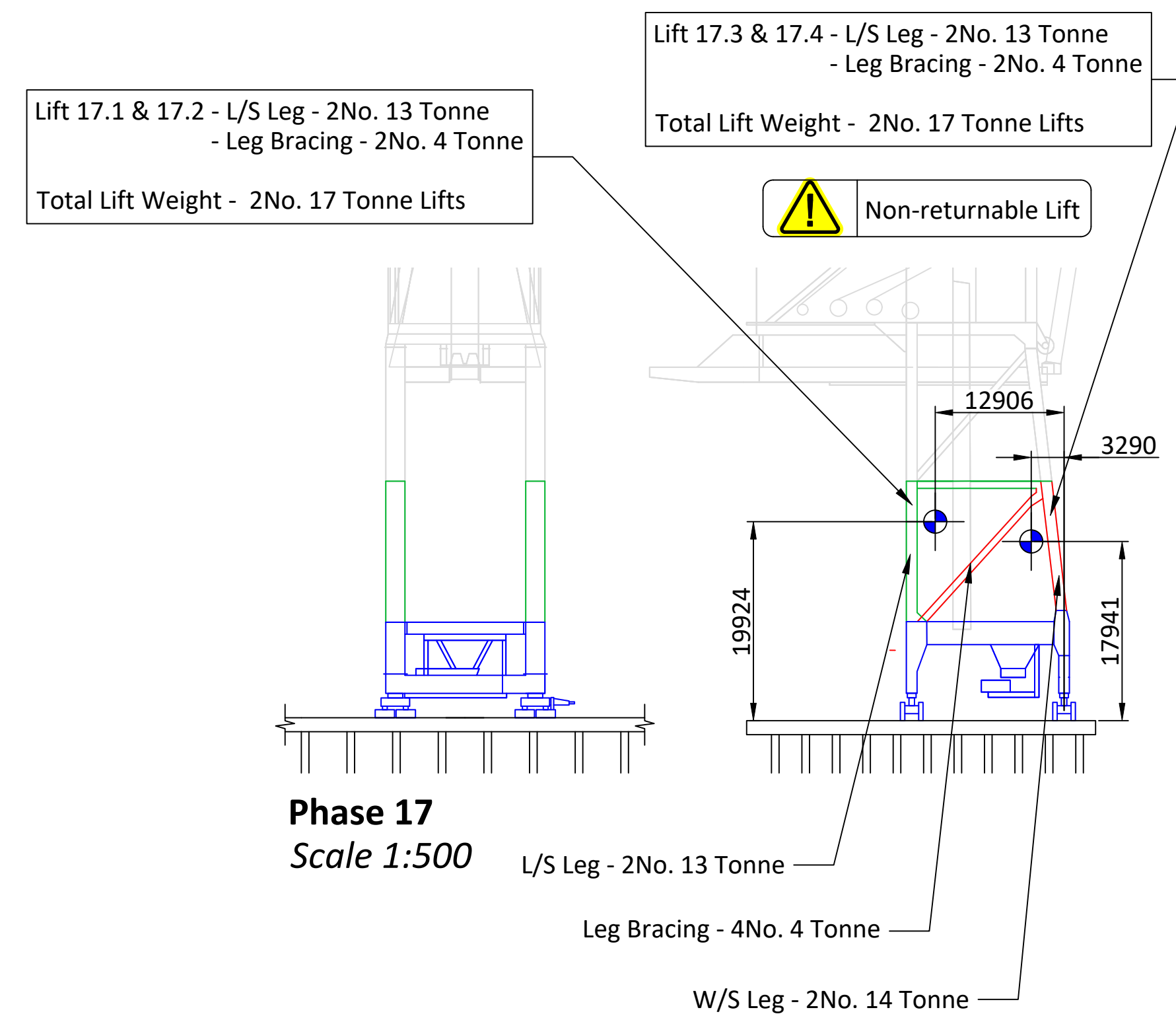
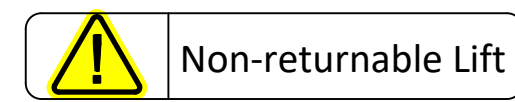
Phase 15
Scale 1:500



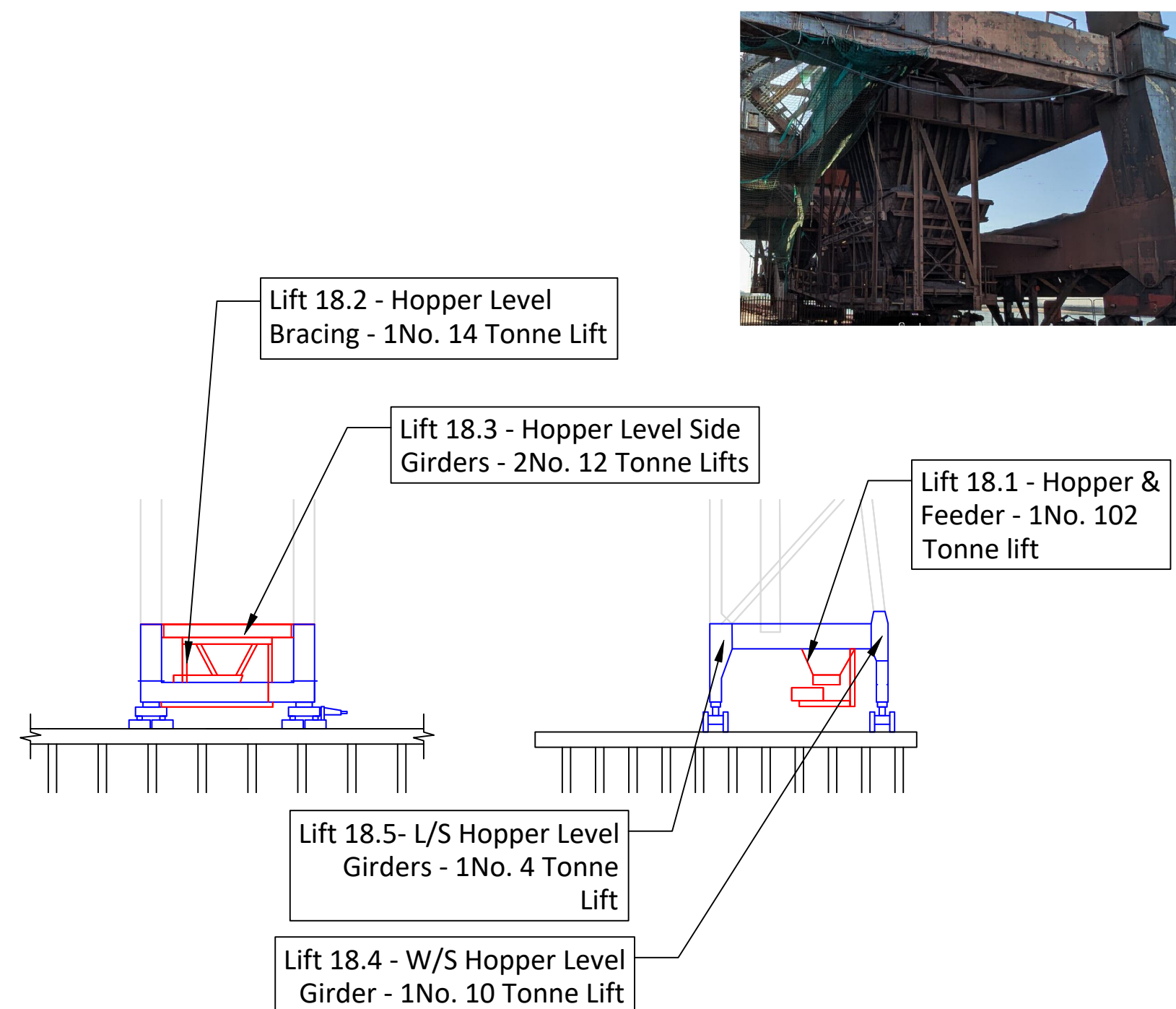
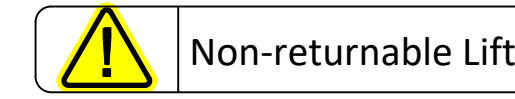
L/S legs and Rear Boom Bracket to be lifted together and lower on to the deck



Phase 16
Scale 1:500



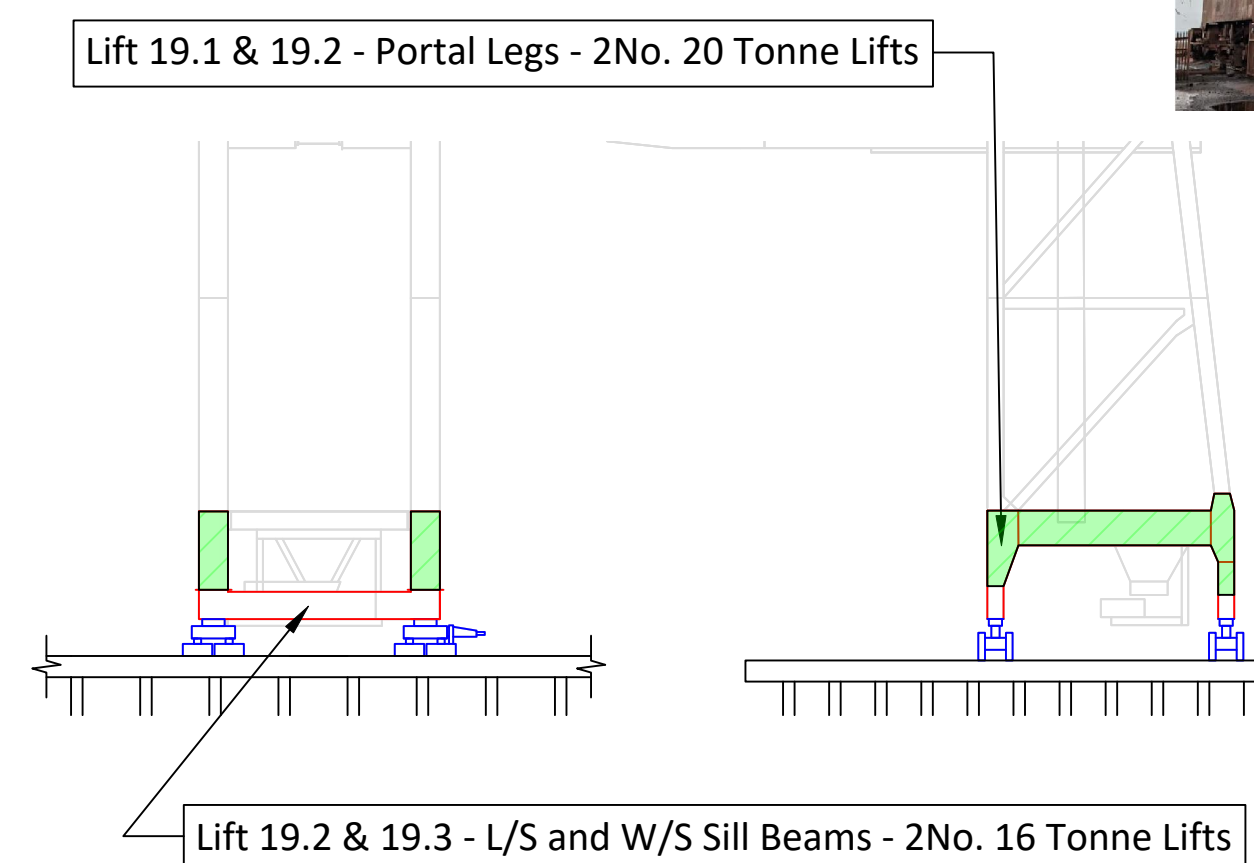
Phase 17
Scale 1:500



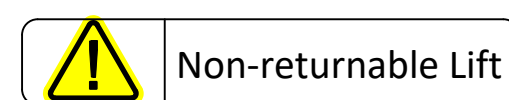
Phase 18
Scale 1:500



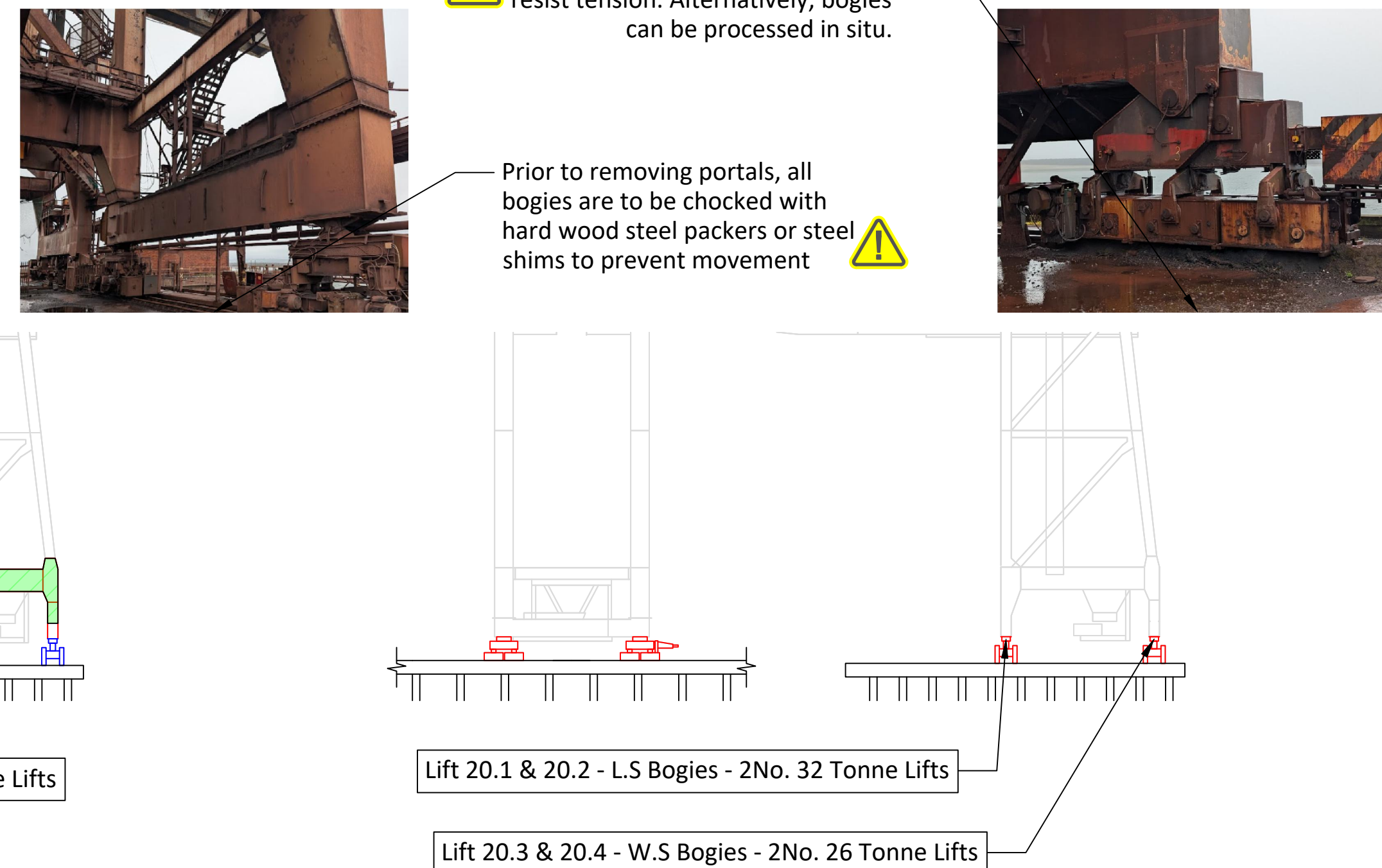
Hopper and feeder to be lifted out separately, followed by the disconnecting and lifting out of the hopper level girders and braces. Feeder may be able to be processed from the jetty to avoid lifting.



Phase 19
Scale 1:500

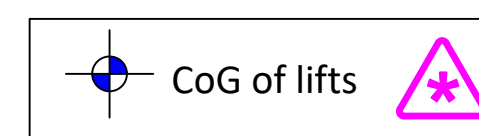


Portal frames and then sill beams to be removed.

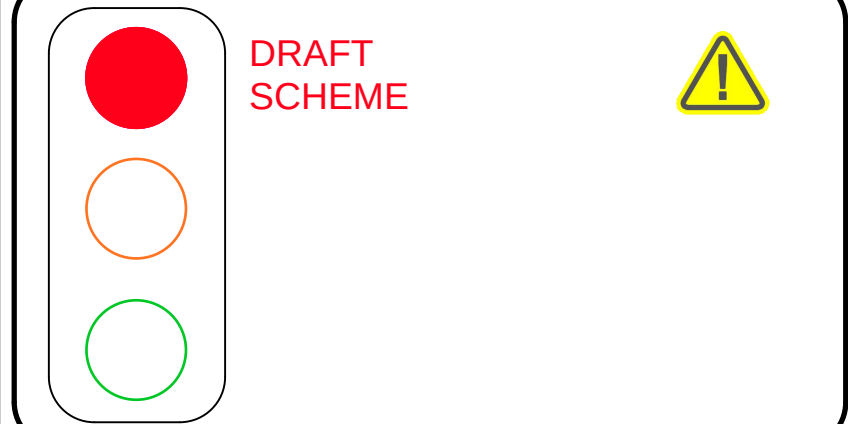


Phase 20
Scale 1:500

Bogies to be lifted individually



P02	15-08-2025	Draft
P01	14-08-2025	Draft
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 - Remaining/Unusual Hazards Identified Thus:
 - Items Of Importance Highlighted Thus:
 - Check Components As Supplied Match Drawings. Where Substitutions Are Made, The Engineer (AEC) MUST Be Informed Prior To Loading.
 - Where We Are Supplied With Drawing Files To Produce Setting Out Points, The Site Team Are To Check All Coordinates Prior To Construction. AEC Cannot Take Responsibility For The Accuracy Of The Supplied Survey/Drawings
 - All Drawings To Be Printed In Colour.

Port Talbot Jetty

TDS TECHNICAL DEMOLITION SERVICES LTD

ADUN ENGINEERING CONSULTANTS

Head Office - Monarch House, Unit 6, Drakes Lane Industrial Estate, Drakes Lane, Bonham, Chelmsford, Essex, CM3 3BE
www.adun.co.uk Tel: 01245 360 194 Info@adun.co.uk

Designed By DS	Date 28-Aug-2025	Checked By DS	Date 28-Aug-2025
Filename AEC-32094-3		Suitability S2	Scale As Shown
Drawing Title Iron Ore Unloader Demolition Methodology Unloader 4 & 5 - Phase 15 - 20			
Drawing Number 32094-3-TDS-PTJ-IU-DRAW-02-006 P02			Sheet 6/6