STRUKTURAS

BRUKONFERANSEN 2026

BUILDABILITY FIRST

Turning bridge design into a safe construction sequence

Aquilino Raimundo

Chief Methods Engineer · Strukturas AS



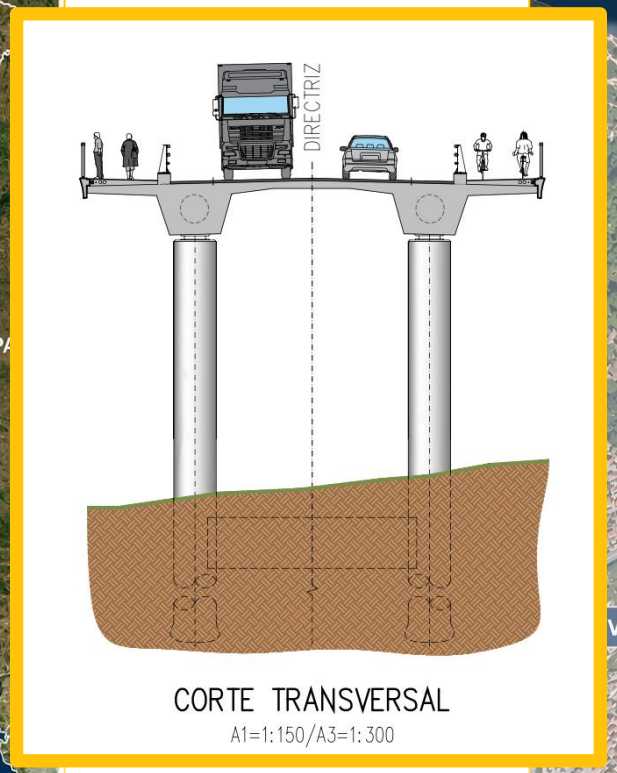
5 NOVEMBER 2026 · RADISSON BLU PLAZA HOTEL · OSLO

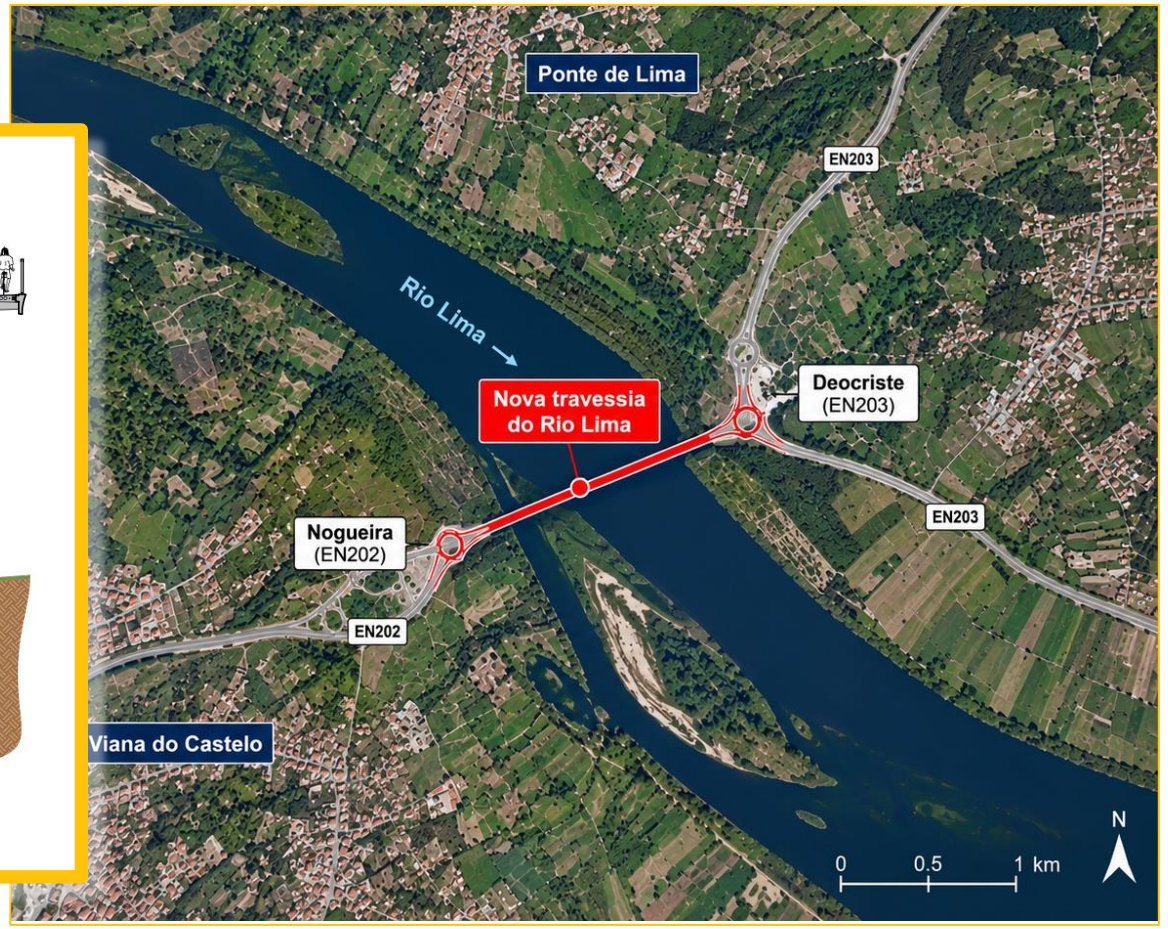
STRUKTURAS

THE OVERHEAD MSS & THE MULTISPAN DECKS

OHMSS RIVER LIMA - PORTUGAL



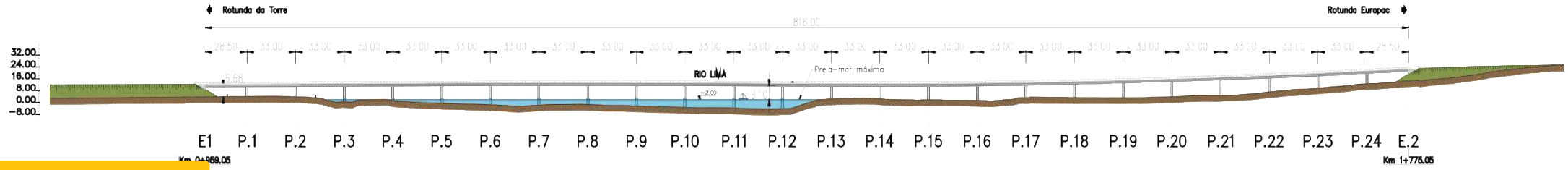




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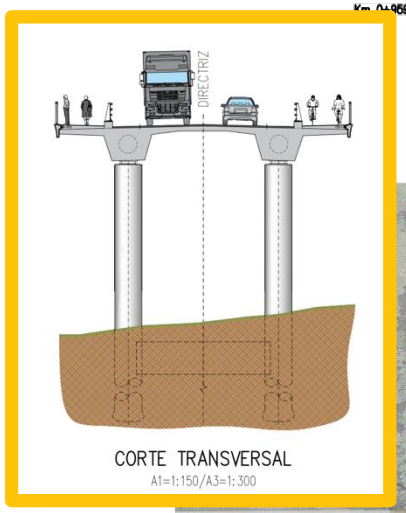
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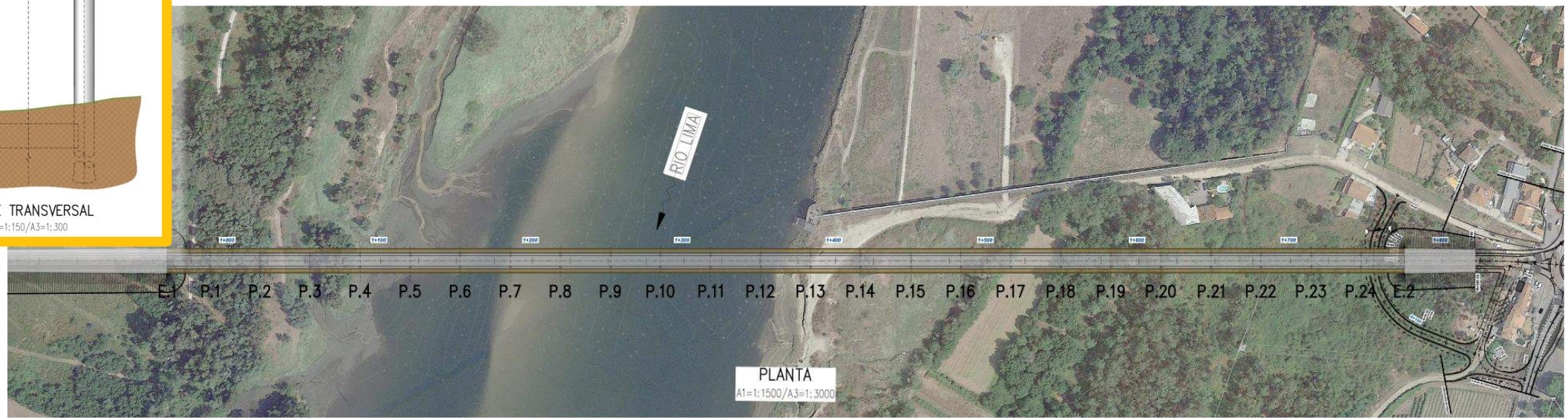
ALÇADO LONGITUDINAL

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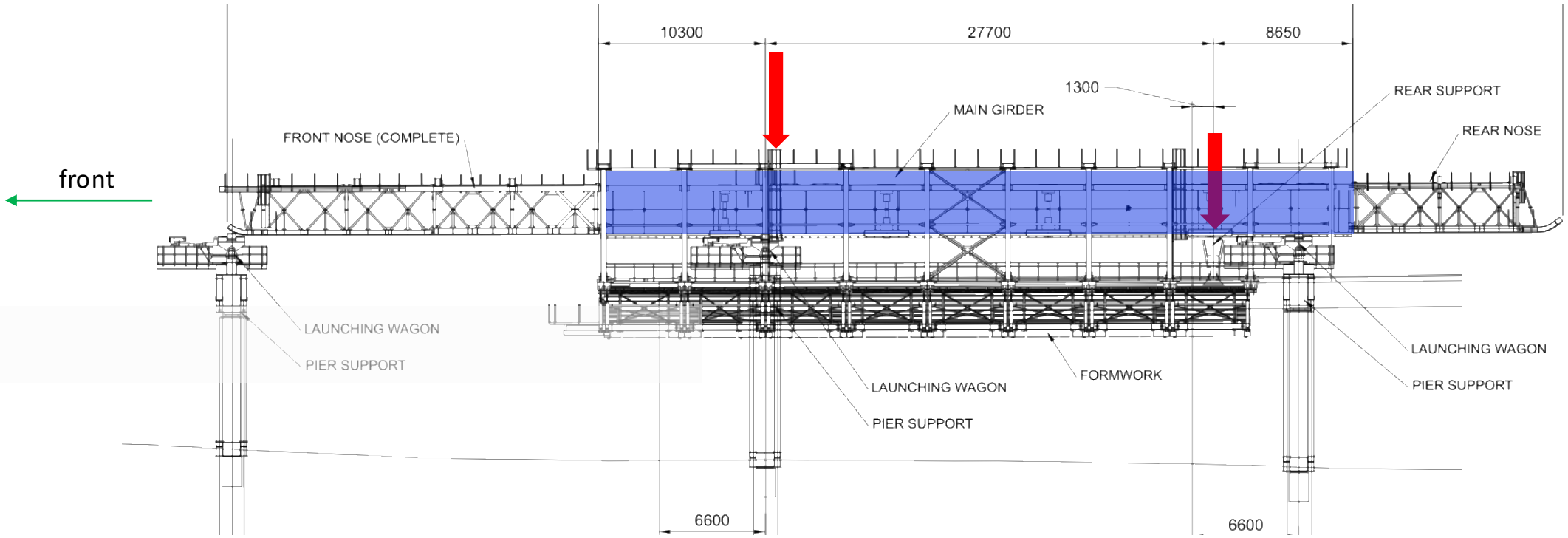
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PLANTA

A1=1:1500/A3=1:3000

THE OVERHEAD MSS & THE MULTISPAN DECKS

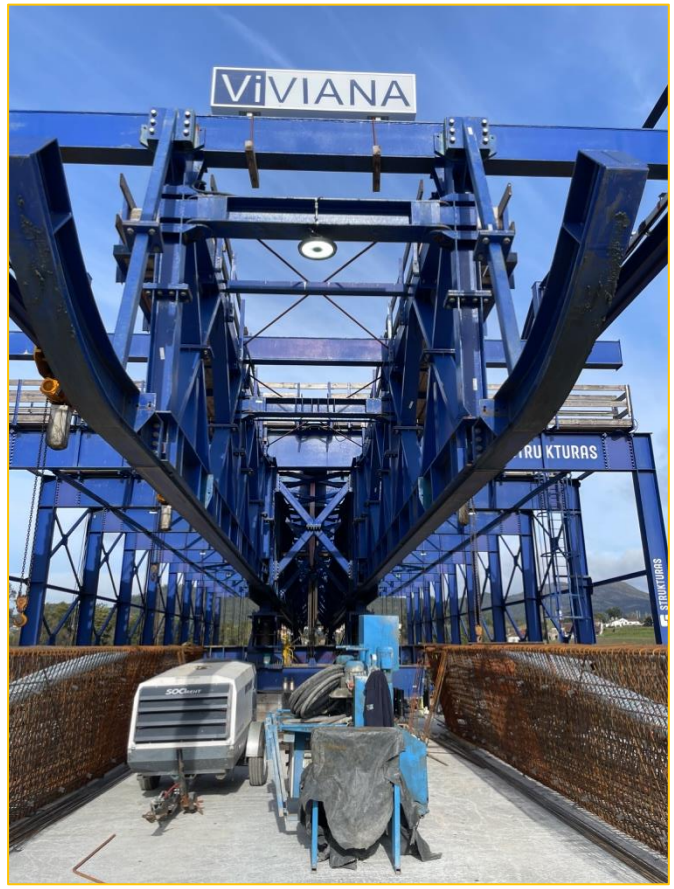


THE OHMSS CONCEPT

THE OVERHEAD MSS & THE MULTISPAN DECKS

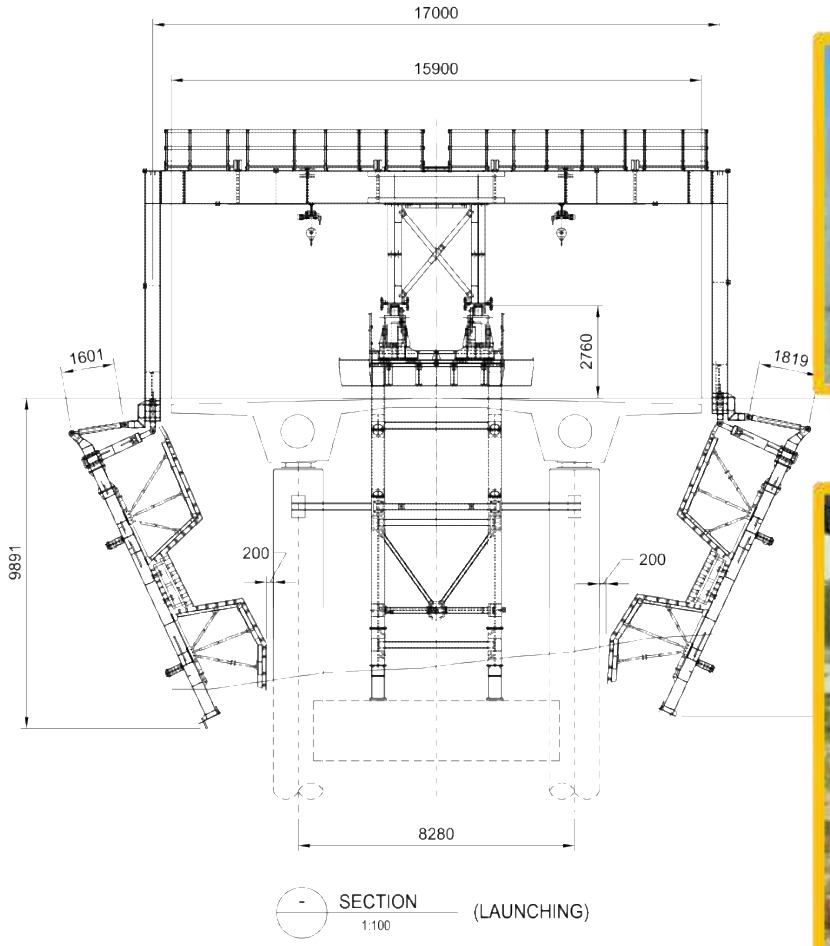
OHMSS RIVER LIMA - PORTUGAL





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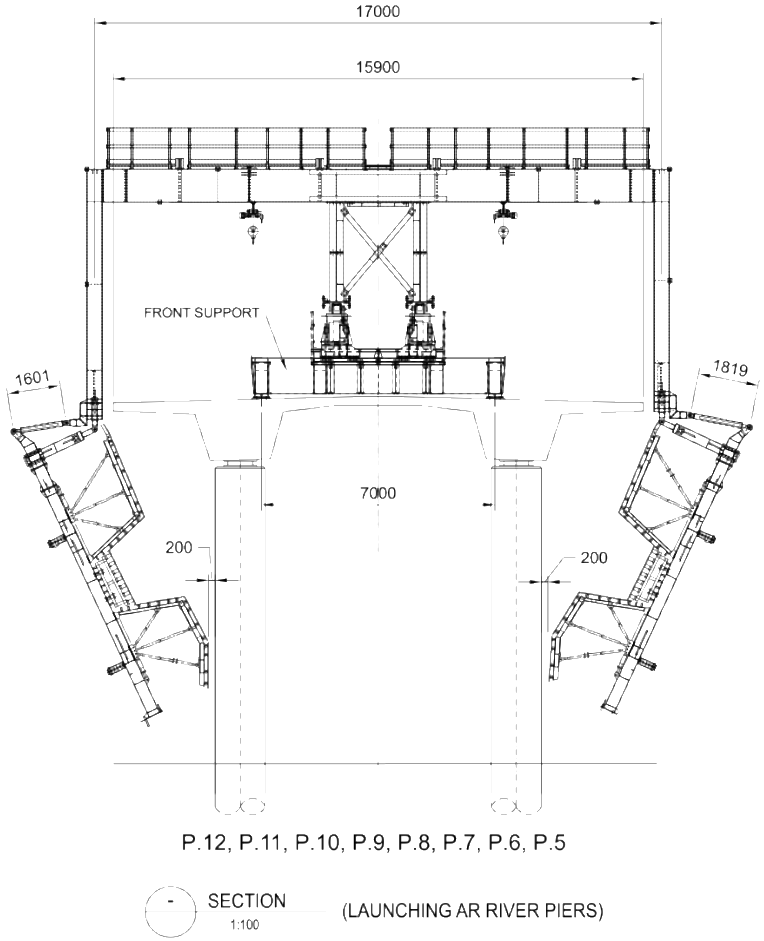






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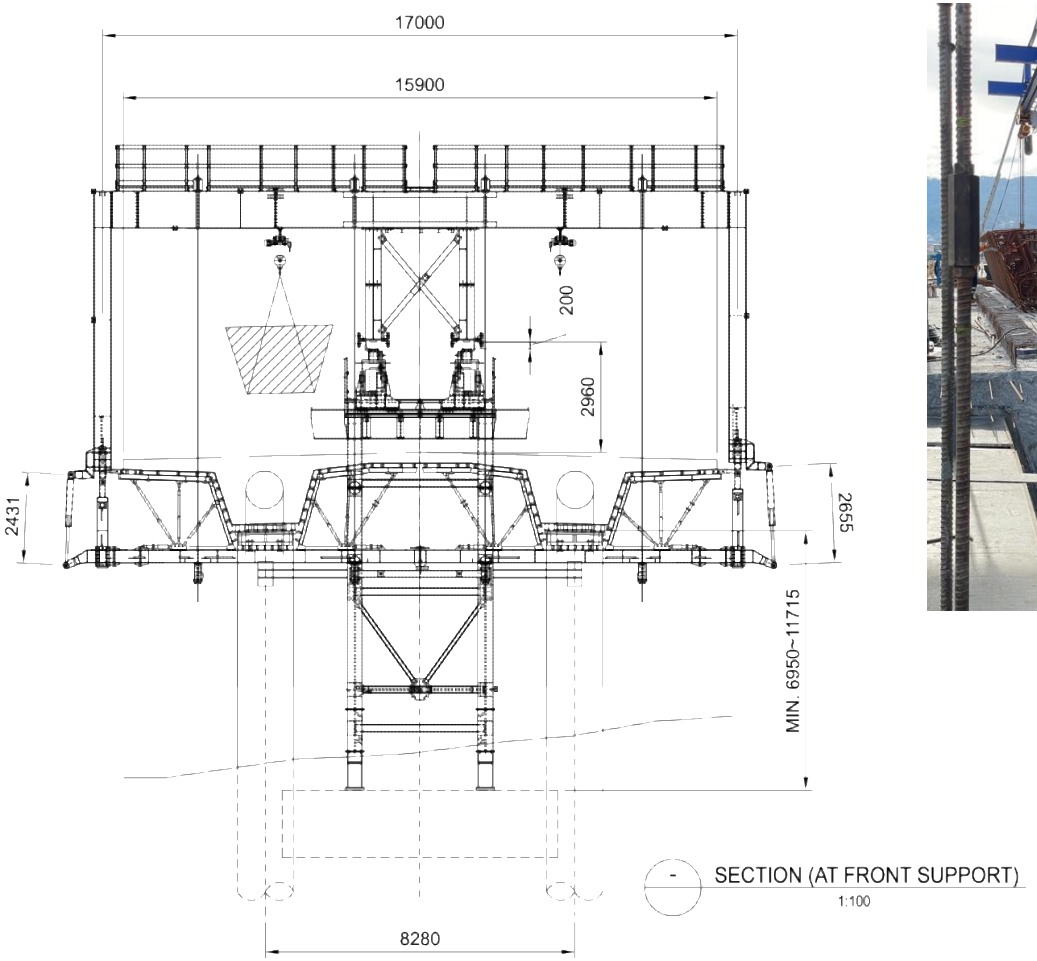
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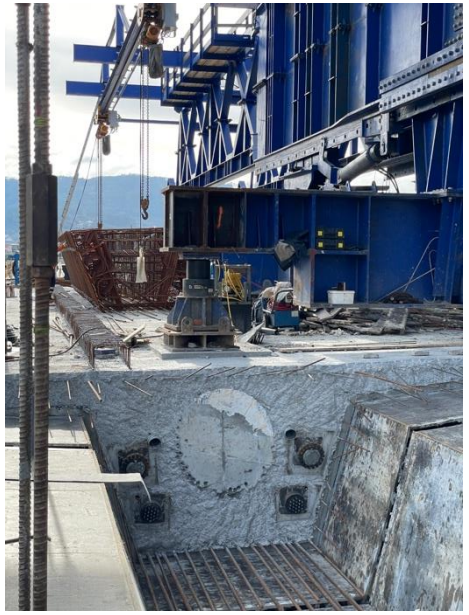




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THE OVERHEAD MSS & THE MULTISPAN DECKS









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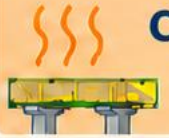
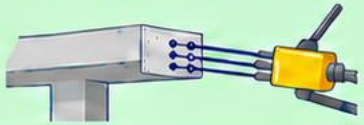
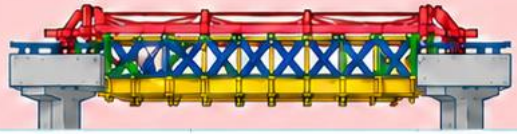


Aquilino Raimundo · Chief Methods Engineer

River Lima

Span construction cycle · OHMSS

One shift · 9 carpenters and 9 rebar workers

FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY
Span concreting 	**Concrete curing** Until Monday, 07:00 		07:00–09:00 **Post-tensioning**  09:00–end of day **Formwork opening, OHMSS launching and formwork closing** 	Until lunchtime **Formwork cleaning and camber adjustment**  **Reinforcement installation** Tuesday after lunch → Thursday, end of day 		

REINFORCEMENT CREW						
Yard pre-assembly 			**Yard pre-assembly** 	Morning **Yard pre-assembly** 		

Yard pre-assembly = reinforcement pre-assembly outside the MSS

Cycle restarts · concreting the following Friday

INDUSTRIALISING MULTISPAN DECK CONSTRUCTION

01 **MSS AS A MOBILE FACTORY**

The Overhead MSS is not merely a formwork system , but a mobile industrial production unit.

02 **INDUSTRIALIZATION STARTS WITH BRIDGE DESIGN**

Geometric simplicity, span repetition and constructa bility are essential to efficient MSS operation.

03 **THE CONSTRUCTION CYCLE IS THE KEY PERFORMANCE INDICATOR**

MSS efficiency must be measured by the total produ ction cycle, not merely by structural weight or equip ment cost.

04 **FUNCTIONAL MSS DESIGN DRIVES PRODUCTIVITY**

Minimise adjustments, auxiliary operations, unnece ssary movements and manpower requirements.

05 **REPETITION ENABLES CONTINUES IMPROVEMENT**

Standardised operations, work study and specialised crews lead to predictable cycles and cumulative pro ductivity gains.

06 **SAFETY AND QUALITY ARE PART OF INDUSTRIALIZATION**

Integrated safety, standardised procedures and syste matic inspections improve reliability and operationa l control.

“The true efficiency of an Overhead MSS lies not in the steel structure weight itself, but in the industrialisation of the entire deck construction process.”

Aquilino Raimundo · Chief Methods Engineer