

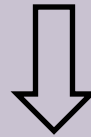
Danjiang Bridge Project

- Main span longer than 400m
- Blend into the Environment and Sunset Scenery
- Reflect the District and Local Culture
- Reduce Environmental and Ecological Impact
- Remarkable Silhouette to Attract Tourists



Team Organization

West Coast Expressway Northern Region Temporary Engineering Office
Directorate General of Highways, M.O.T.C.



 中興工程顧問股份有限公司
SINOTECH ENGINEERING CONSULTANTS, LTD.


Leonhardt, Andrä und Partner

Sinotech Engineering
Consultants, Ltd
Taiwan R.O.C

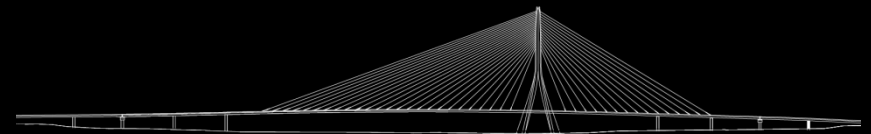
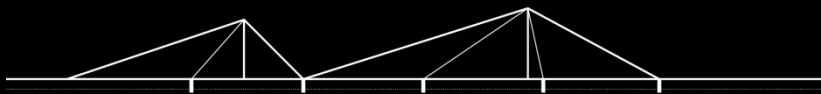
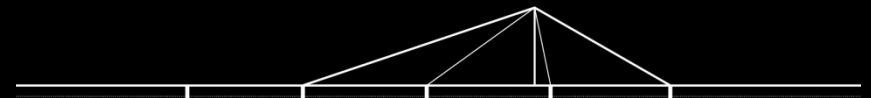
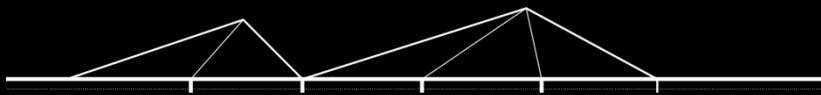
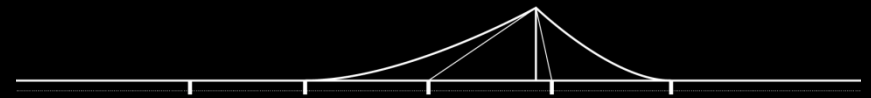
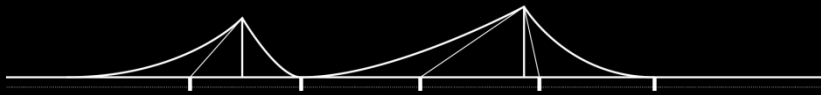
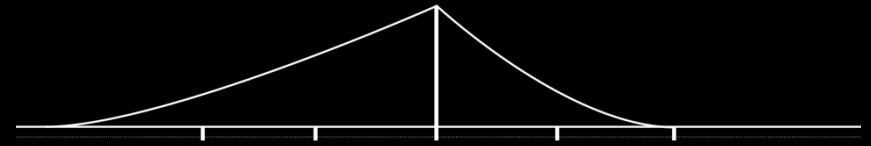
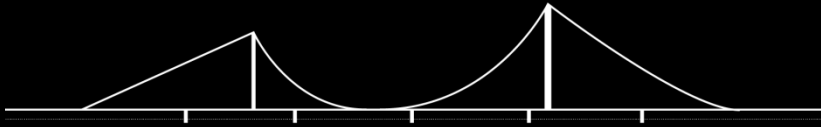
Leonhardt, Andrä und
Partner VBI AG
Germany

USA Bridge Expert Advisor
(QI YE)

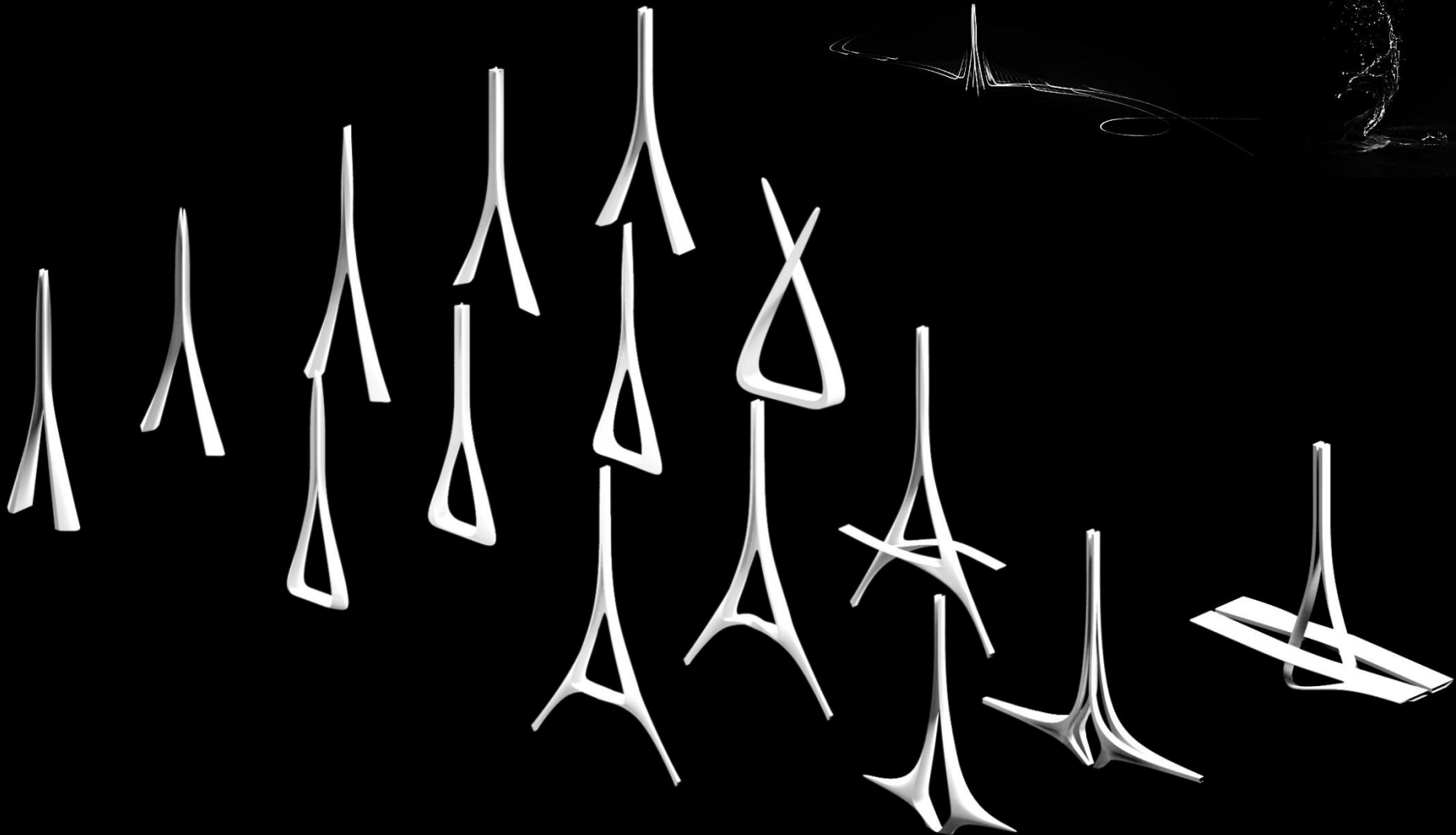
Zaha Hadid Architects
London UK

Japan Bridge Expert Advisor
(T. TSUTSUMI)

Typology Evolution



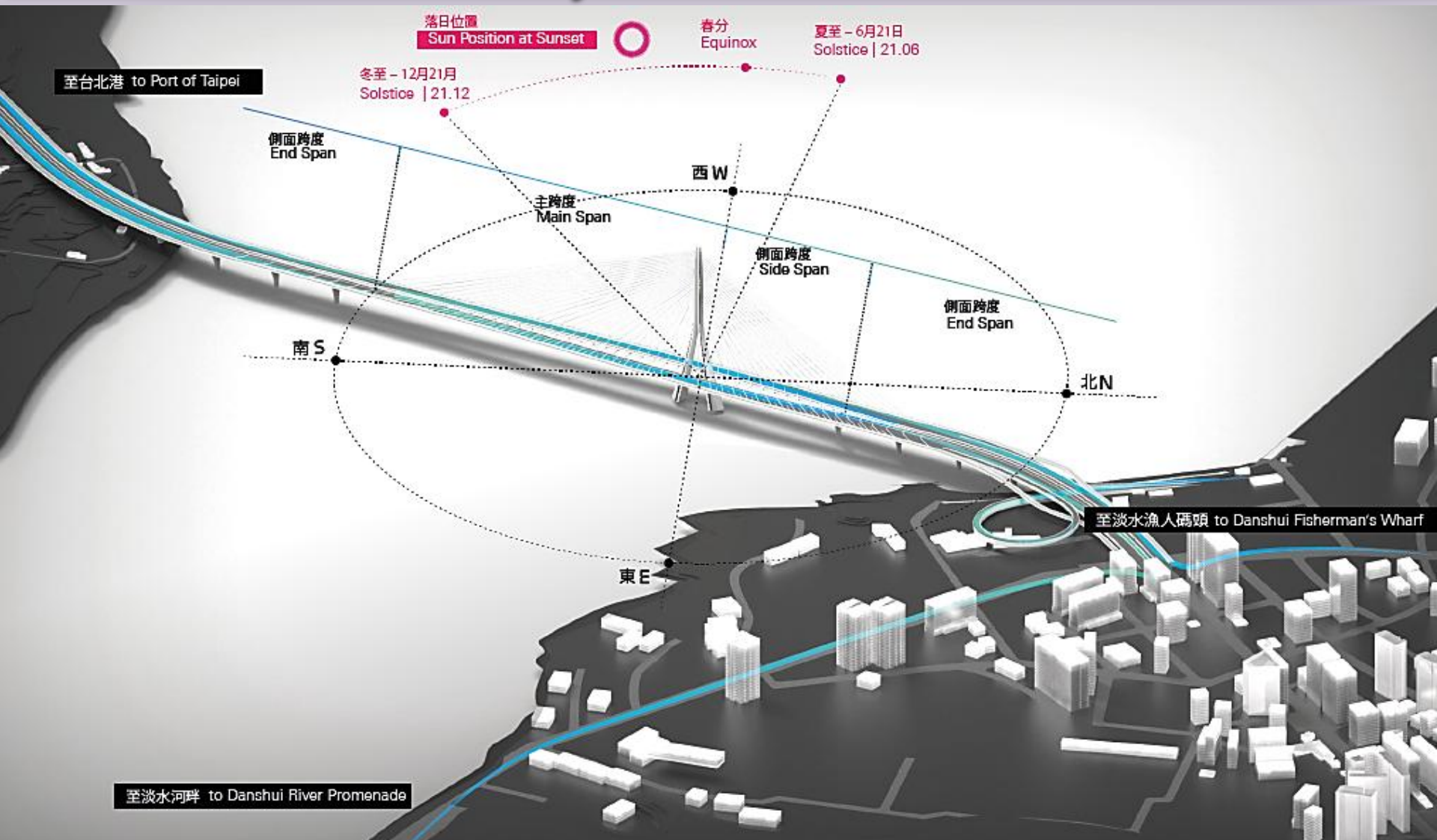
Pylon Design Studies



The Serene Dancer



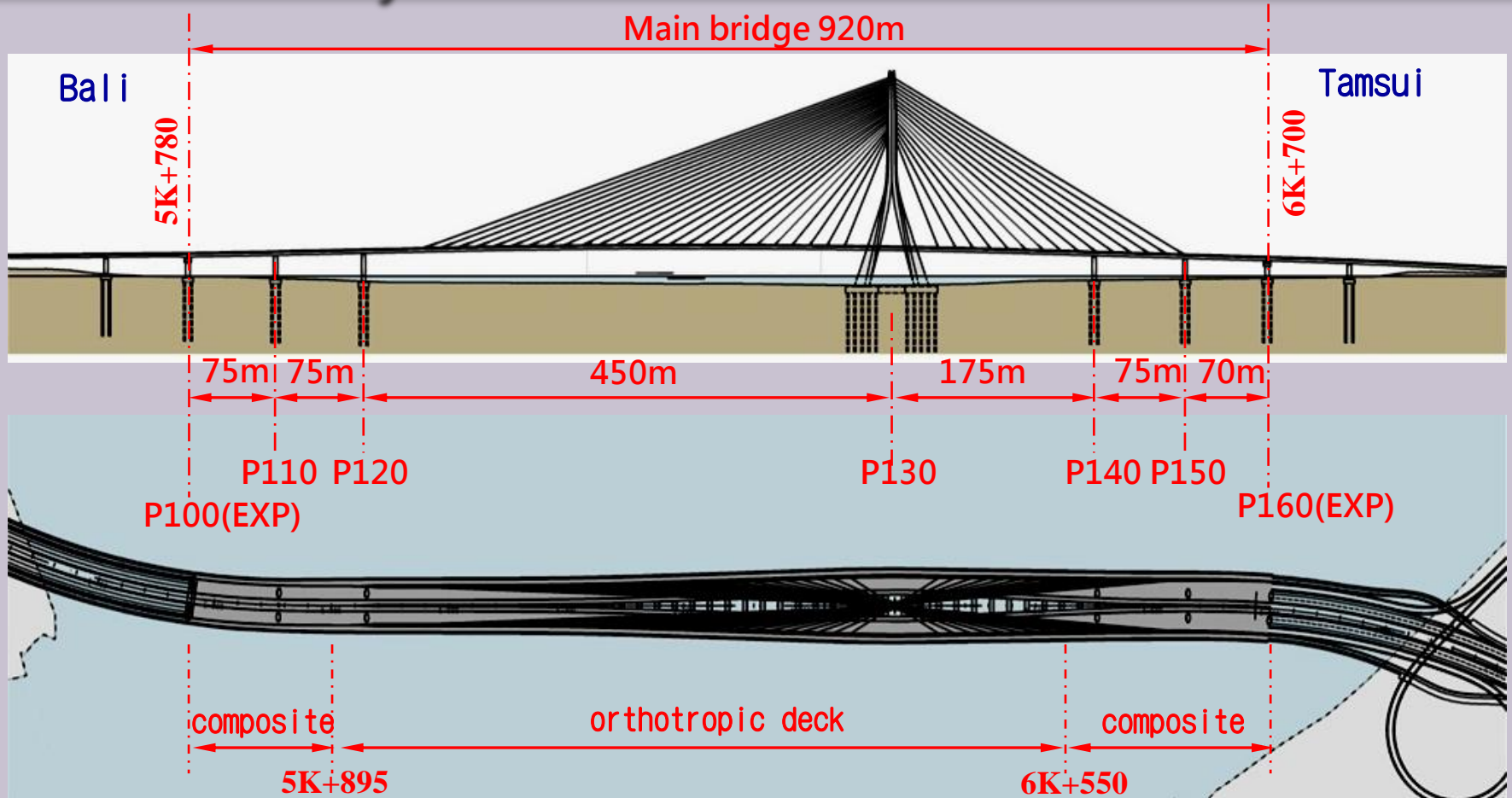
Sunset Views Analysis



Sunset Simulation

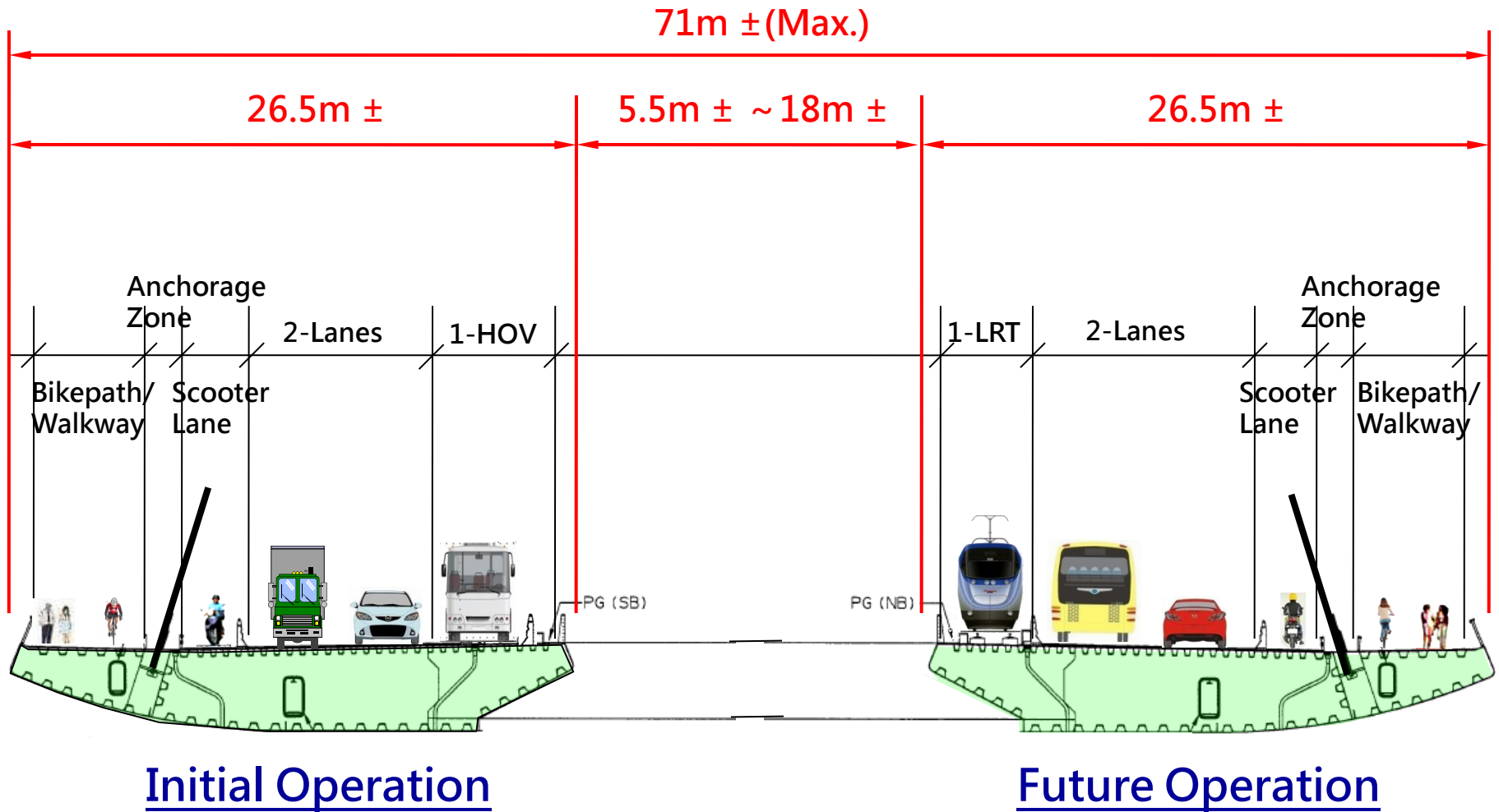


General Layout

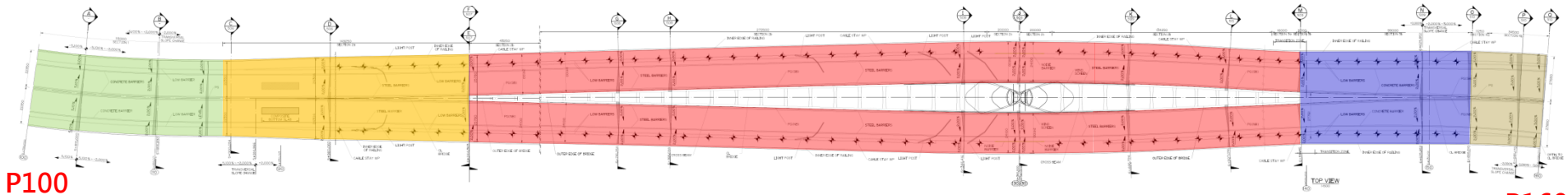


- The World's Longest Asymmetrical Cable-Stayed Bridge

Main Bridge Cross Section

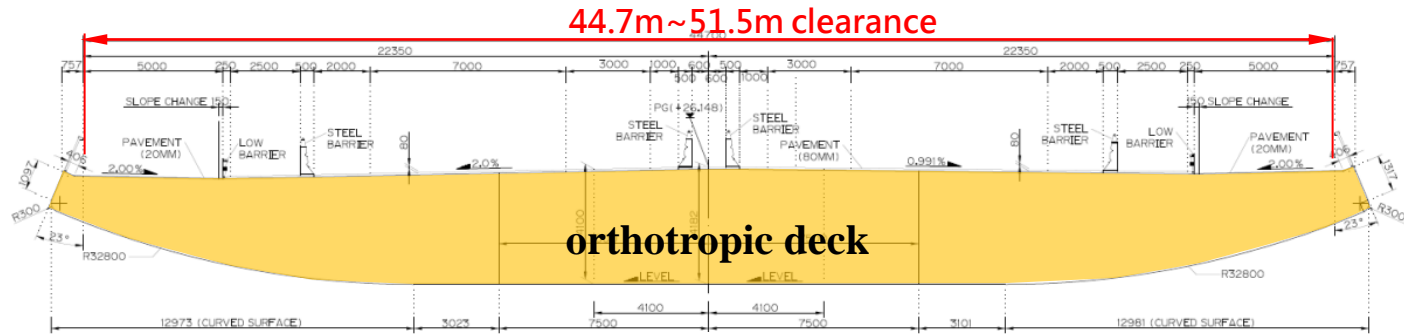
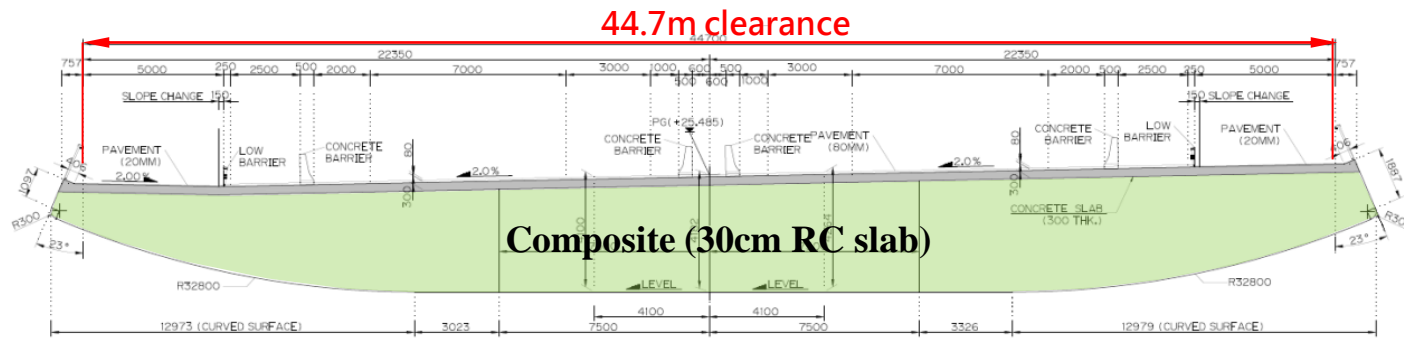


Steel Girder Arrangement-1

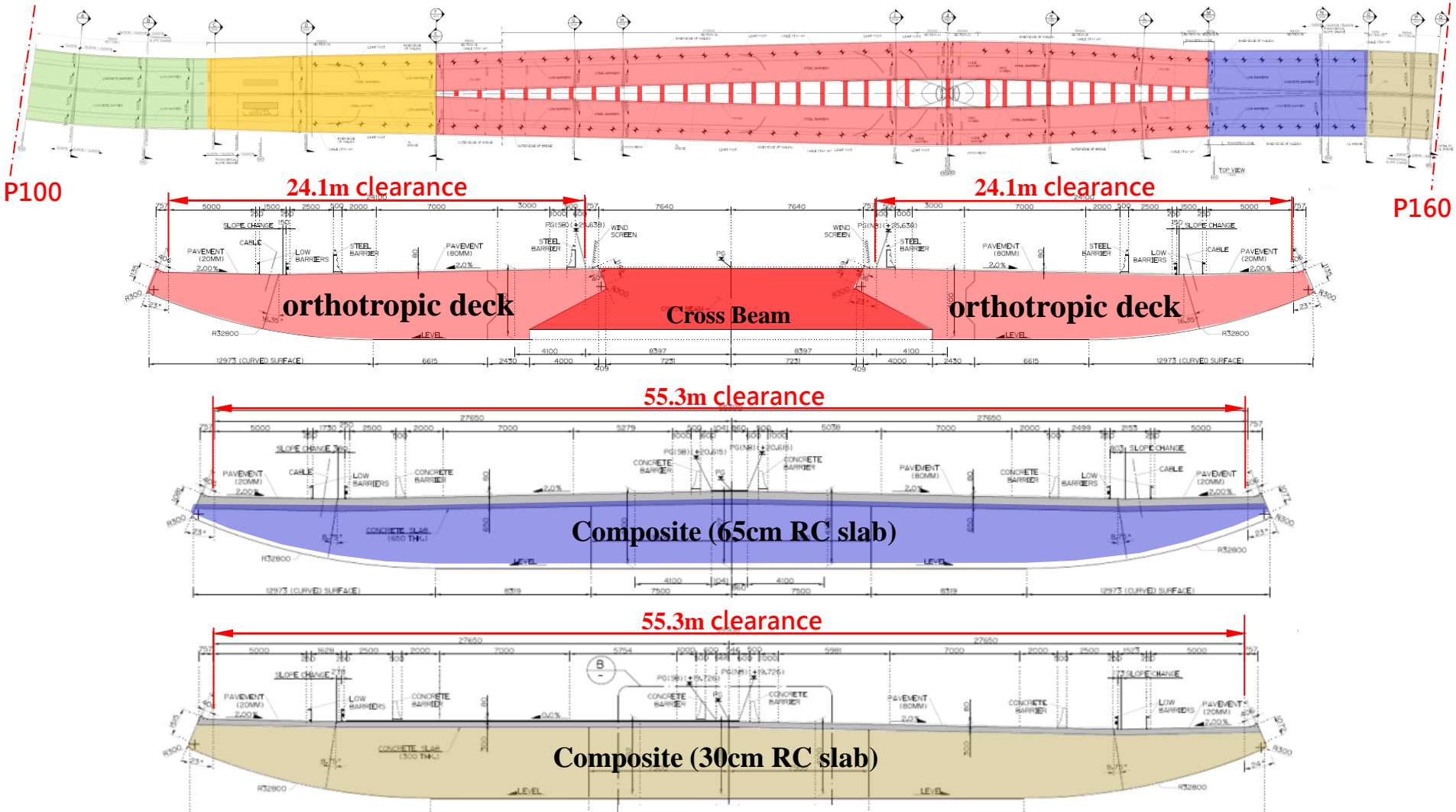


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P160

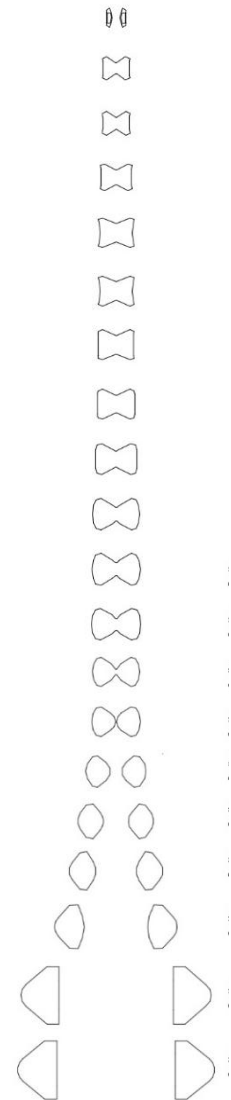
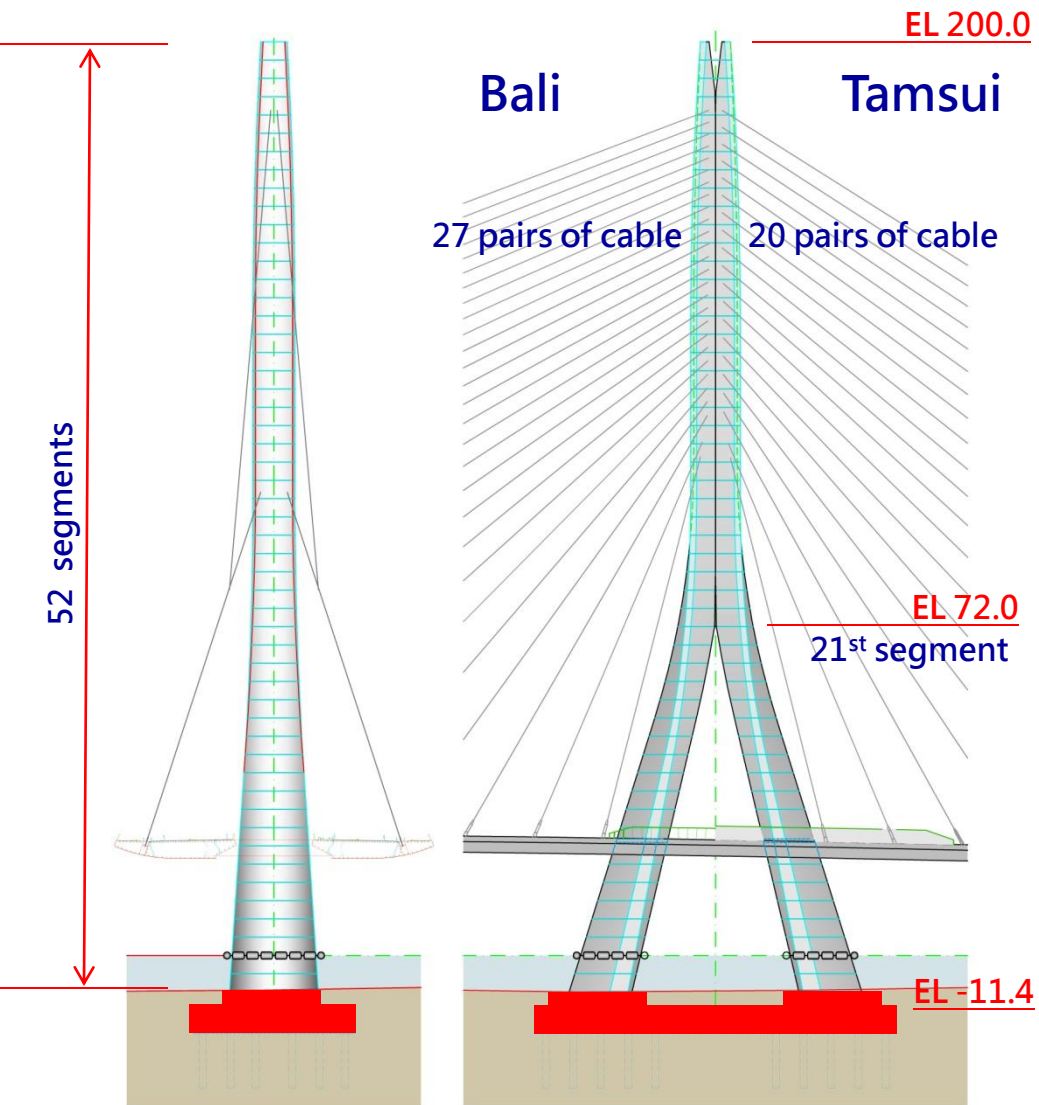


Steel Girder Arrangement-1



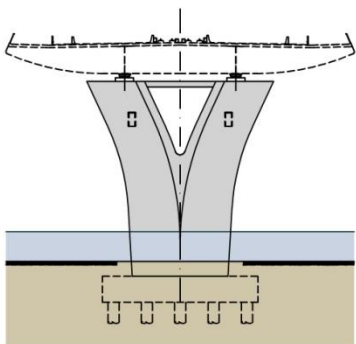
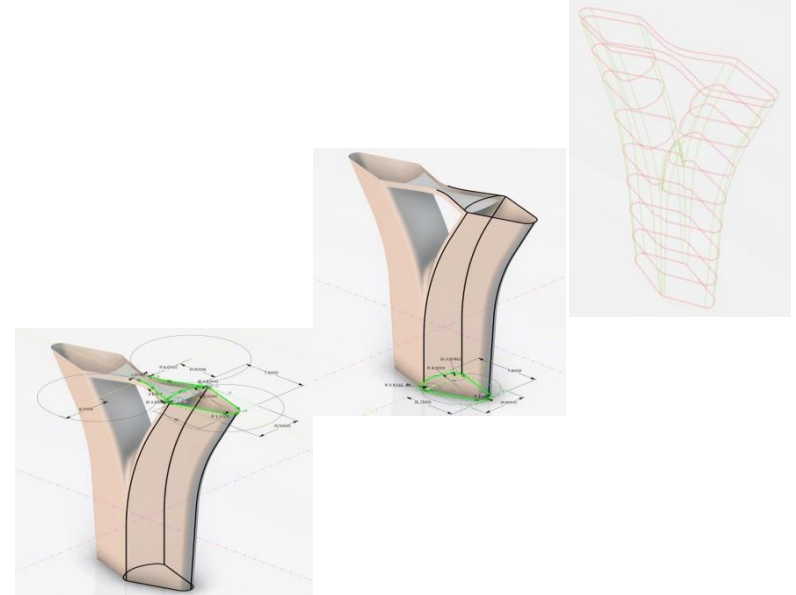
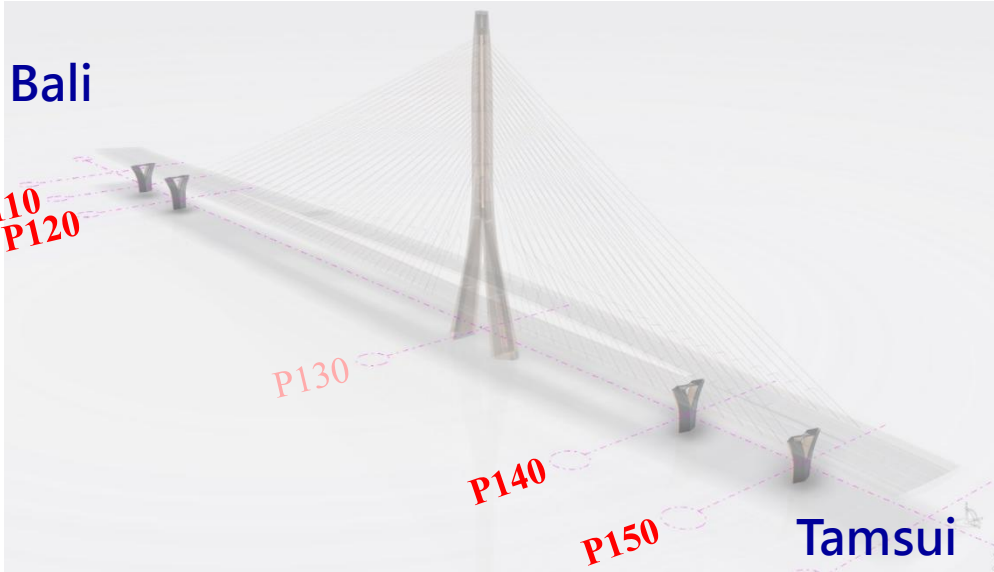


Pylon

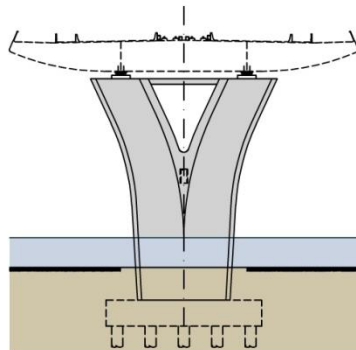




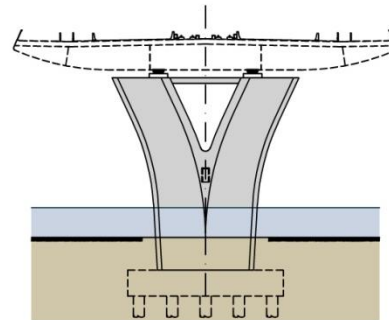
Piers



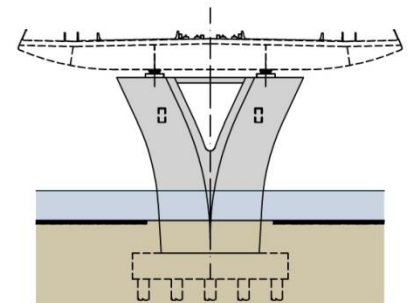
P110



P120



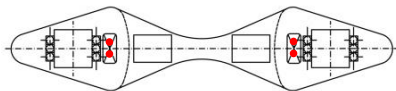
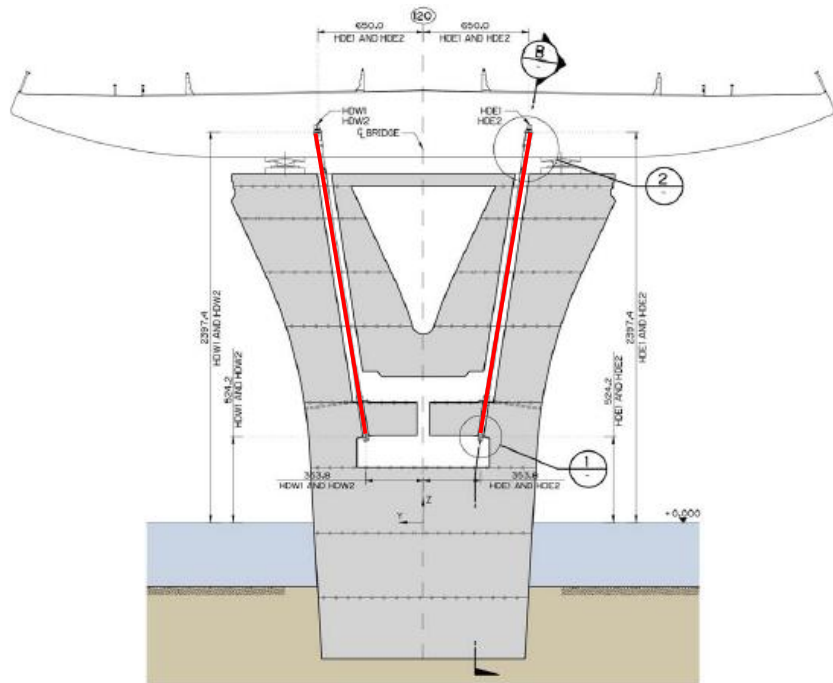
P140



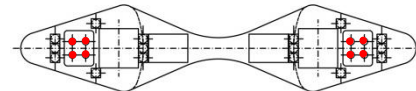
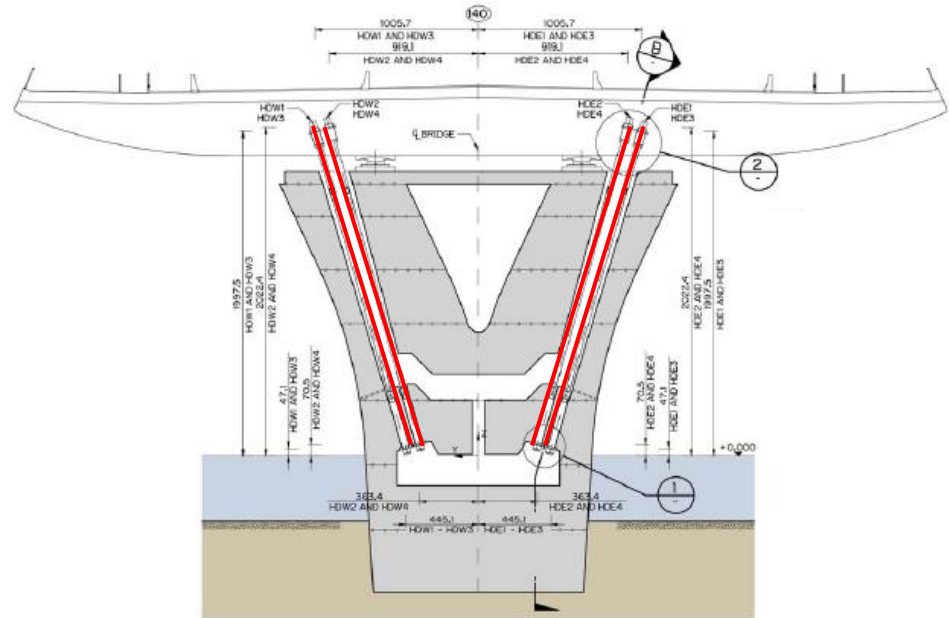
P150



Hold-down Piers

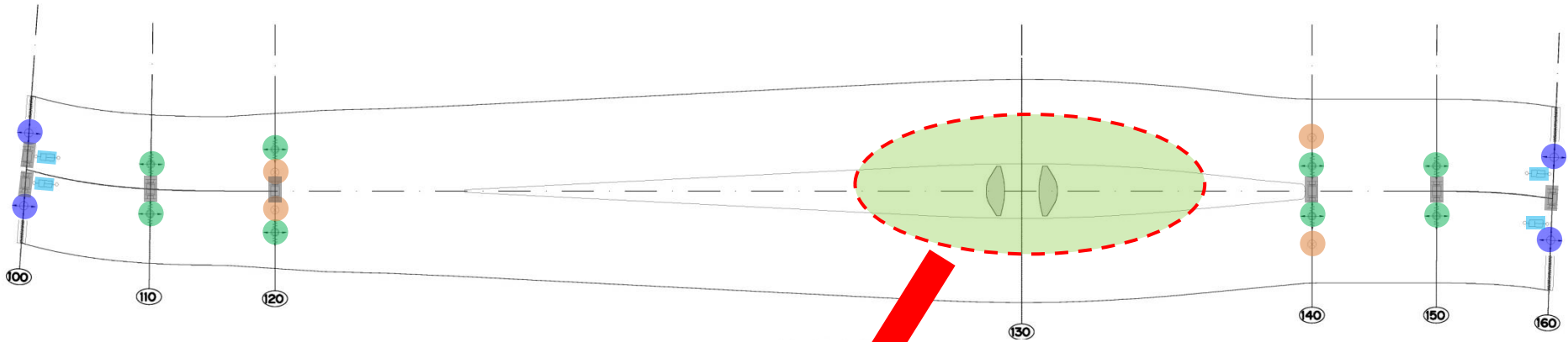


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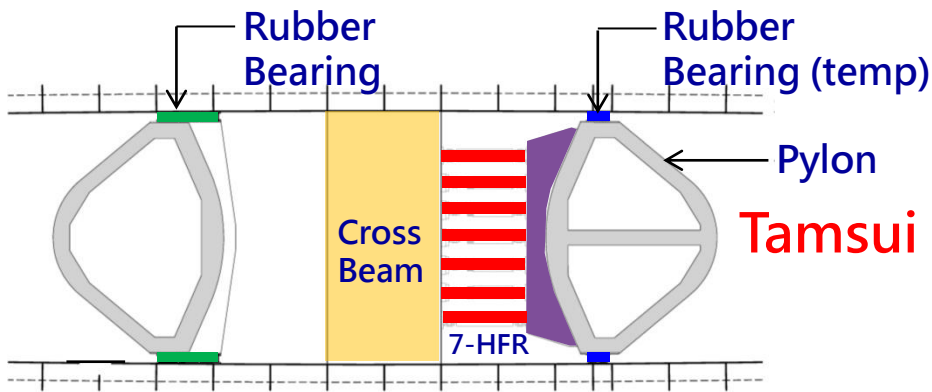


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Bridge System
















Bali

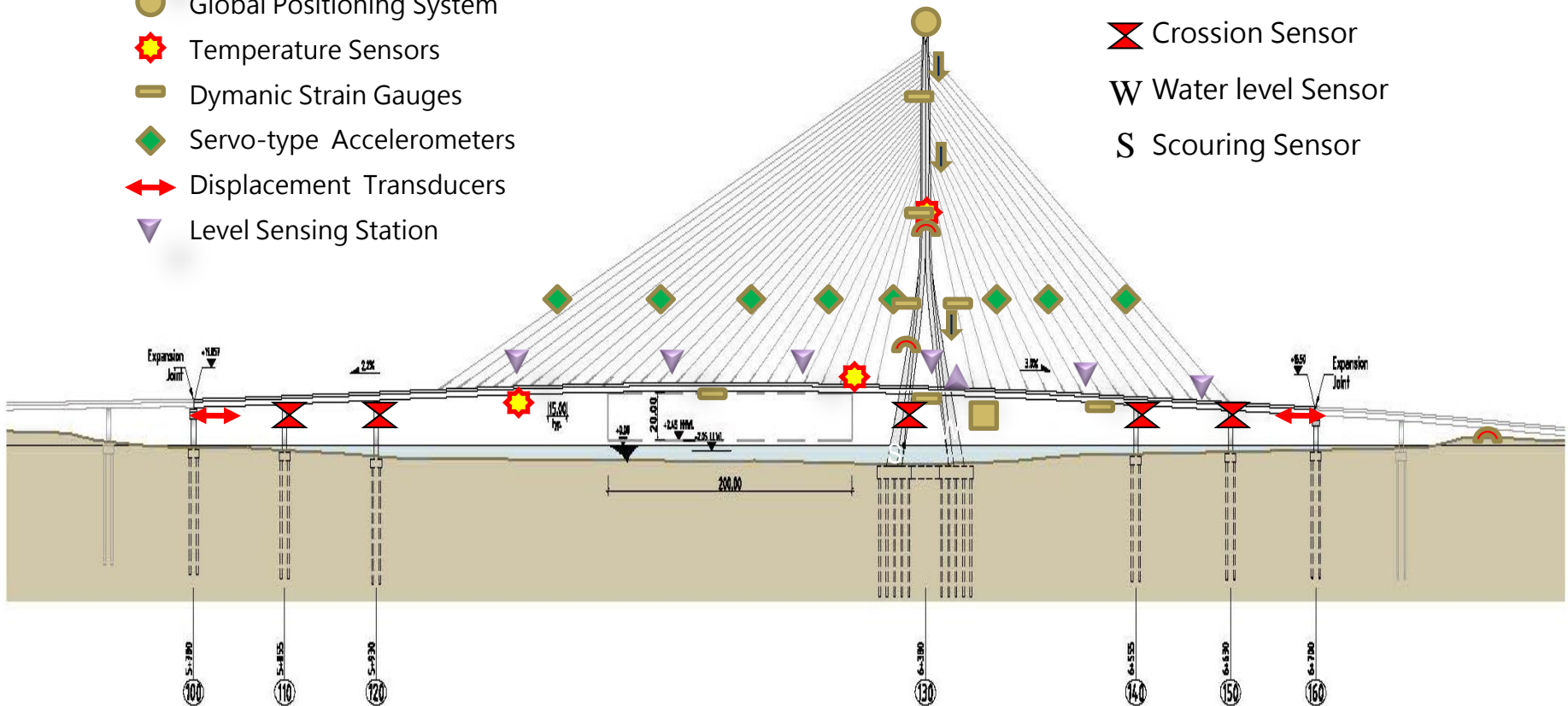


Tamsui

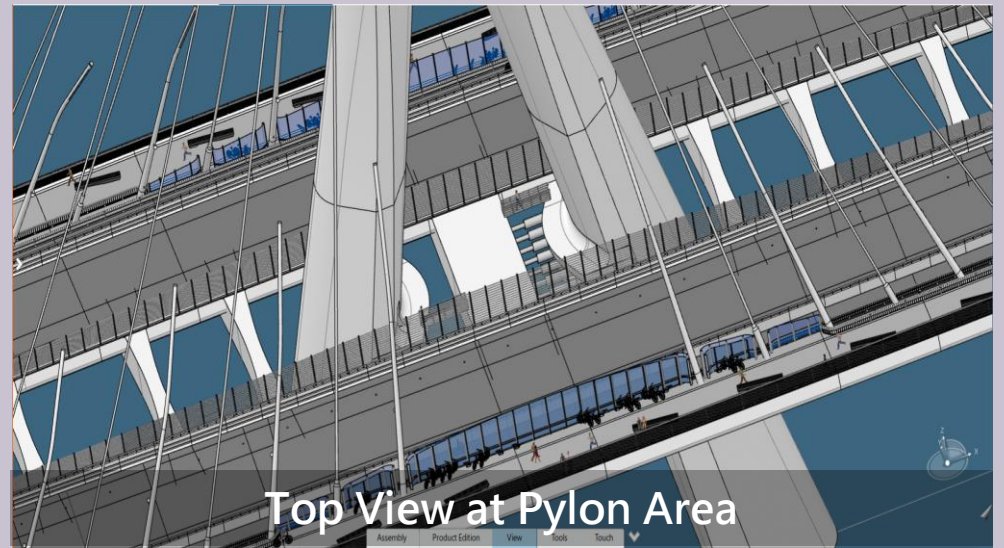
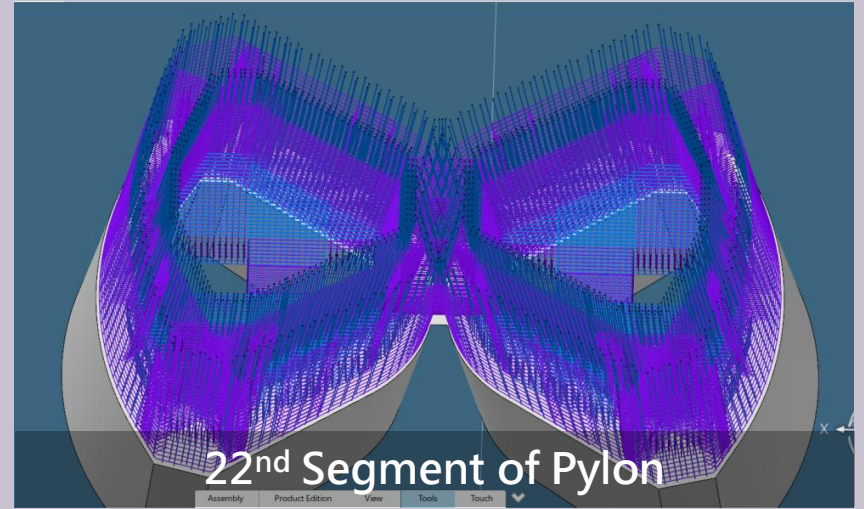
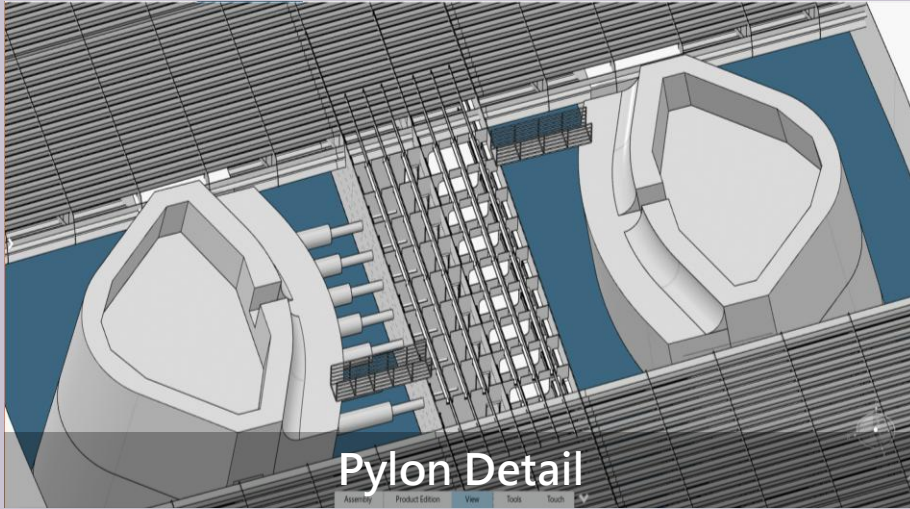
GUIDED FRICTION PENDULUM BEARING	
SPHERICAL BEARING	
LAMINATED RUBBER BEARING	
HYDRAULIC FUSE RESTRAINT	
FLUID VISCOUS DAMPER	
HOLD-DOWN CABLE	
EXPANSION JOINT	
SHEAR KEY WITH ELASTOMERIC PAD (SK)	

Durability : Monitoring

-  Earthquake Sensor*3
-  Anemometer
-  Global Positioning System
-  Temperature Sensors
-  Dynamic Strain Gauges
-  Servo-type Accelerometers
-  Displacement Transducers
-  Level Sensing Station
-  Slope Defection Sensor
-  Data Acquisition System
-  Crossion Sensor
-  Water level Sensor
-  Scouring Sensor



BIM Application



BIM Application

