

NEW FISH MARKETS CONSTRUCTION STAGING - MAIN WORKS

STAGE 0 - PRE-COMMENCEMENT WORKS

KEY ACTIVITIES:

- SILT CURTAIN ESTABLISHMENT
- SEDIMENT REDISTRIBUTION

Activity Description:

Silt Curtain Install

- Silt installed and closed prior to commencement of other works.

Sediment Redistribution

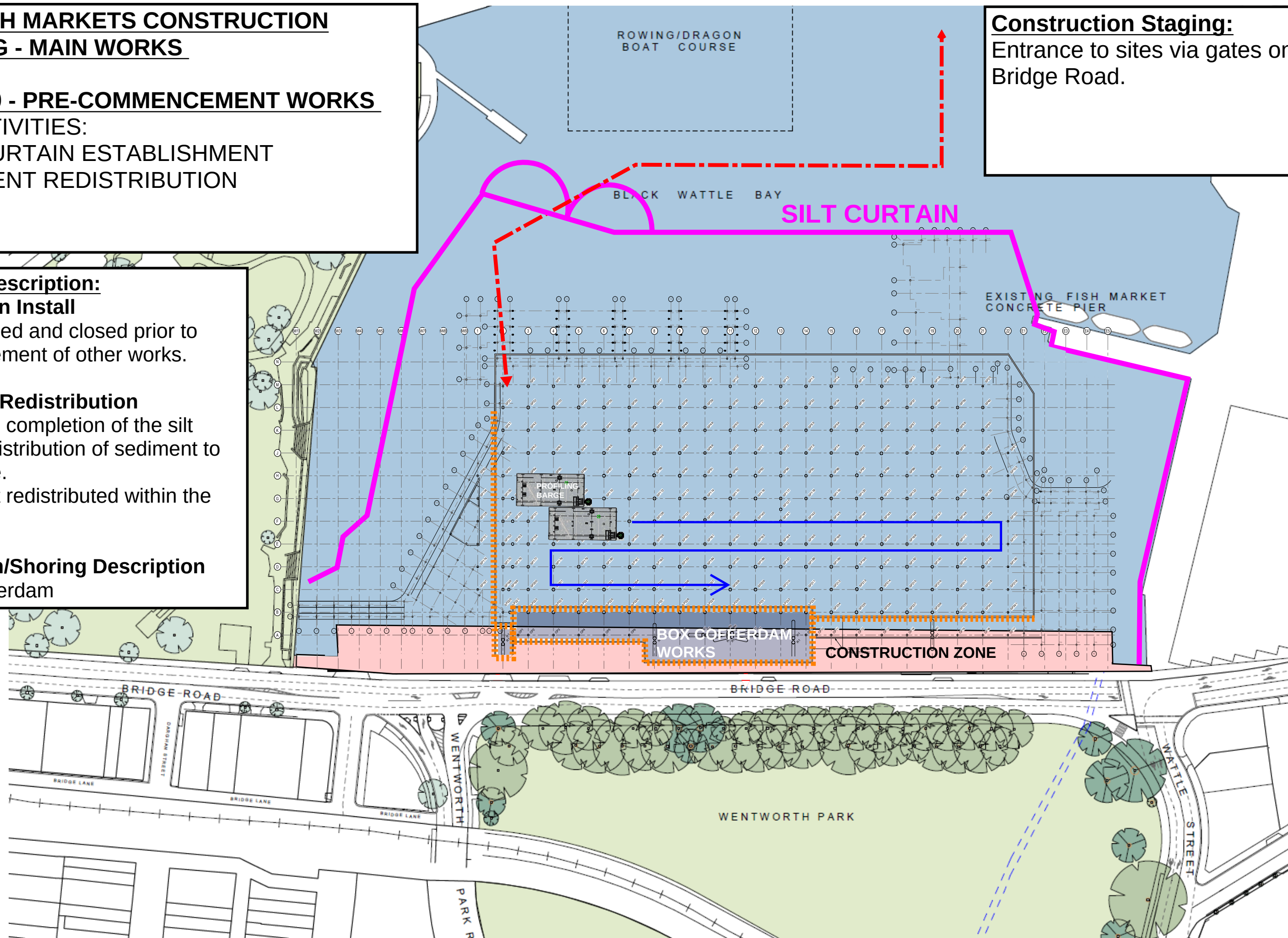
- Following completion of the silt curtain redistribution of sediment to commence.
- Sediment redistributed within the site.

Cofferdam/Shoring Description

- Start cofferdam

Construction Staging:

Entrance to sites via gates on Bridge Road.



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STAGE 1 - MARINE WORKS

- KEY ACTIVITIES:
- COFFERDAM/SHORING INSTALL
 - BOX COFFERDAM WORKS
 - MARINE AND LAND BASED PILING
 - SITE ESTABLISHMENT
 - BACKFILL WITHIN COFFERDAM
 - SITE ESTABLISHMENT

Activity Description:

Marine Piling Description

- Install of Steel Hollow Section piles into Class III rock. Including some promenade piles not impacted by cofferdam.
- Piles
- Promenade Piles

Cofferdam/Shoring Description

- Single skin steel pile cofferdam wall made up sheet piles.
- Southern Shoring wall to be completed landbased and waterside on other elevations.

Box Cofferdam Description

- Southern box cofferdam to be completed with steel pile cofferdam walls.
- Install of anchors to box cofferdam southern sheets
- Commence prep works for piling platform and landbased piles.

Backfill within Cofferdam Description

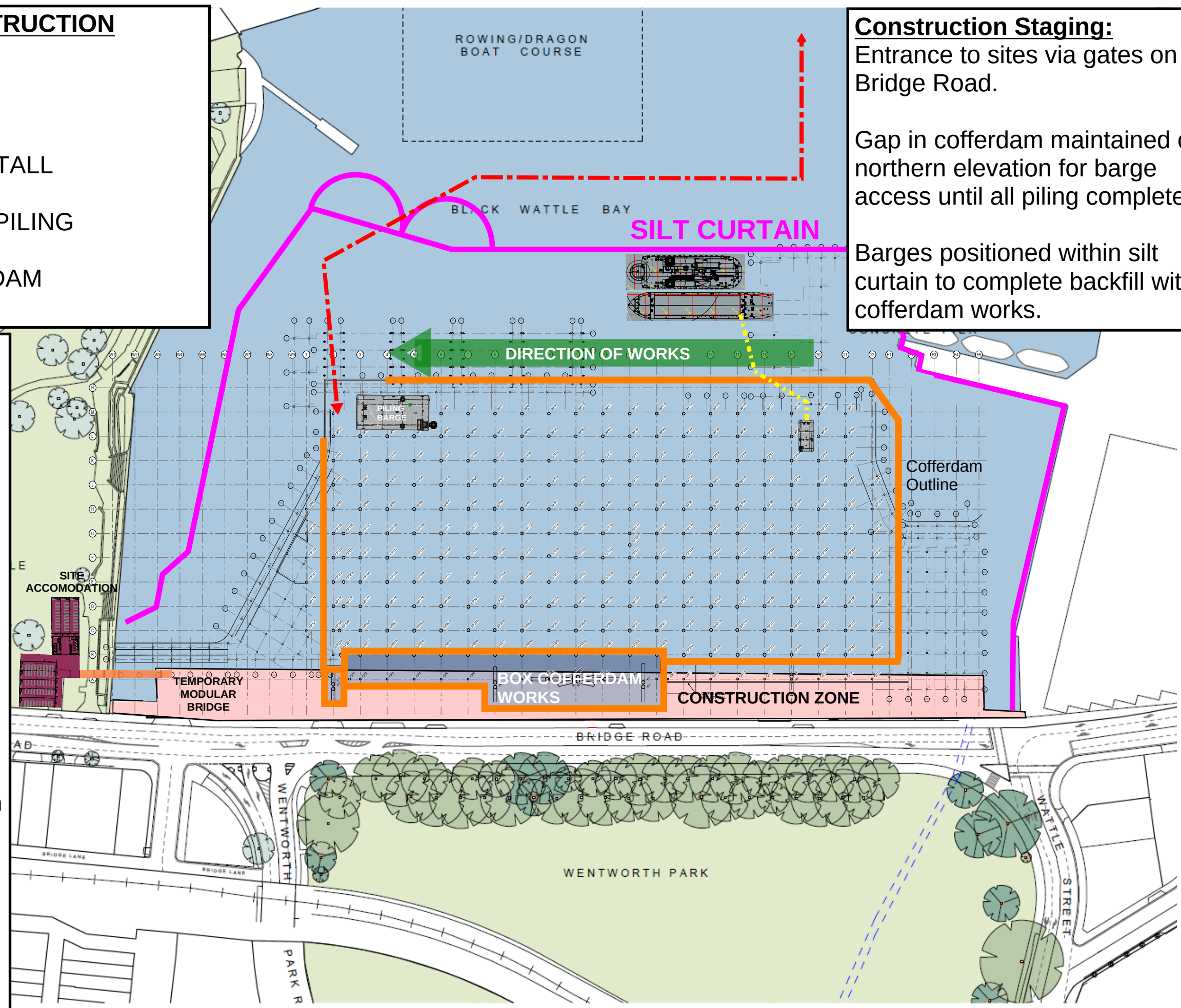
- Split Hopper and Excavator Barge feeding sand/stone backfill inside cofferdam.

Construction Staging:

Entrance to sites via gates on Bridge Road.

Gap in cofferdam maintained on northern elevation for barge access until all piling complete.

Barges positioned within silt curtain to complete backfill within cofferdam works.



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STAGE 2 - DEWATERING, LANDBASED PILES

KEY ACTIVITIES:

- DEWATERING OF COFFERDAMS
- COMPLETION OF LANDBASED PILES
- PROMENADE SLABS
- CRANE ERECTION

Activity Description:

Backfill within Cofferdam Description

- Split Hopper and Excavator Barge feeding sand/stone backfill inside.

Cofferdam Dewatering

- Dewater approx 2m of water to expose top of piles using submersible pumps.
- Trim piles installed to allow install of pile caps.

Landbased Piling:

Commence install of land based piles. Raker piles and Plumb Piles

Promenade Slabs:

Headstocks and pre-cast concrete elements to be install. Promenade slabs poured to allow for additional construction staging space.

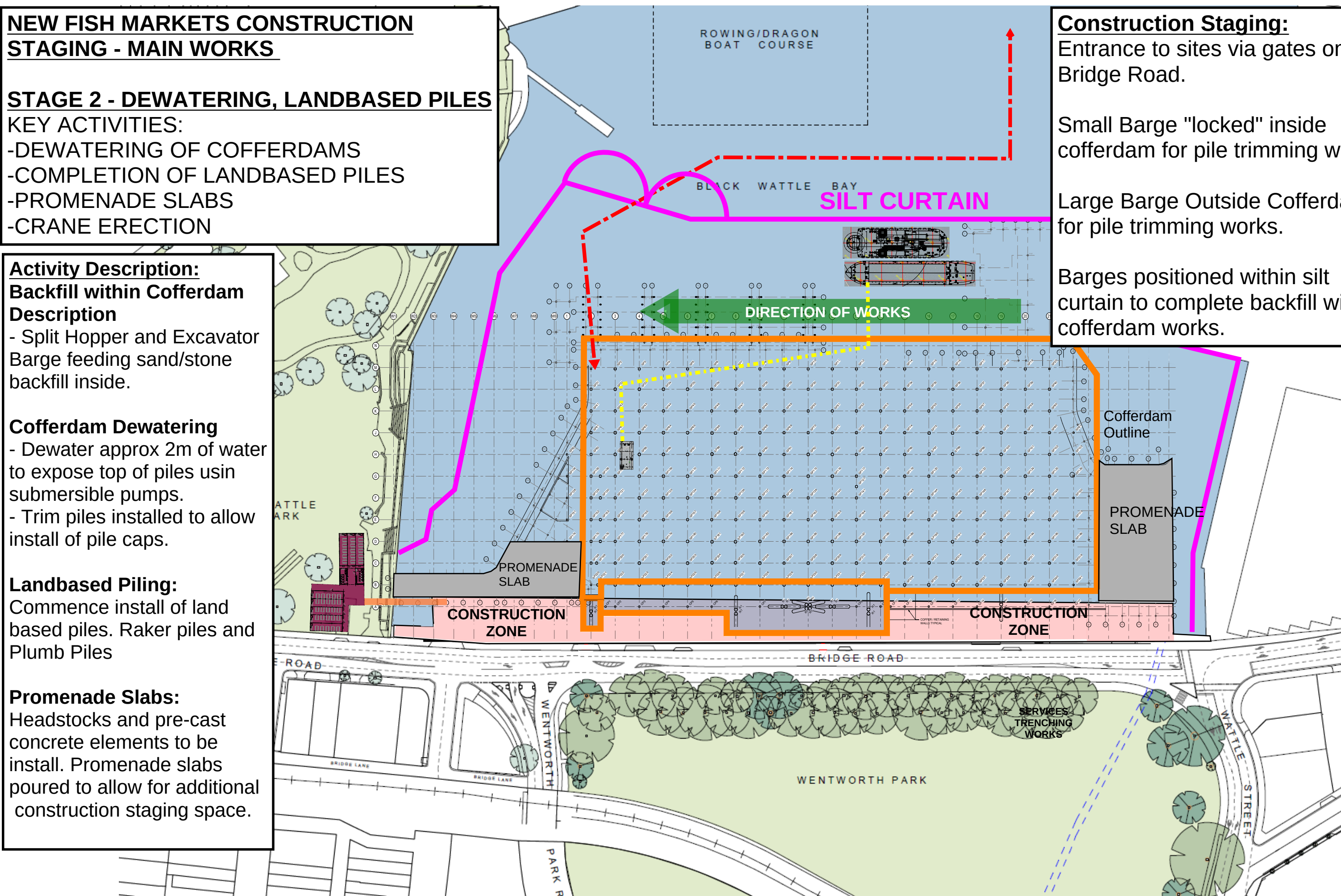
Construction Staging:

Entrance to sites via gates on Bridge Road.

Small Barge "locked" inside cofferdam for pile trimming works.

Large Barge Outside Cofferdam for pile trimming works.

Barges positioned within silt curtain to complete backfill within cofferdam works.



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STAGE 3 - SUBSTRUCTURE RL -0.3

- KEY ACTIVITIES:
- SUBSTRUCTURE RL-0.3
 - SETUP OF SITE CRANES

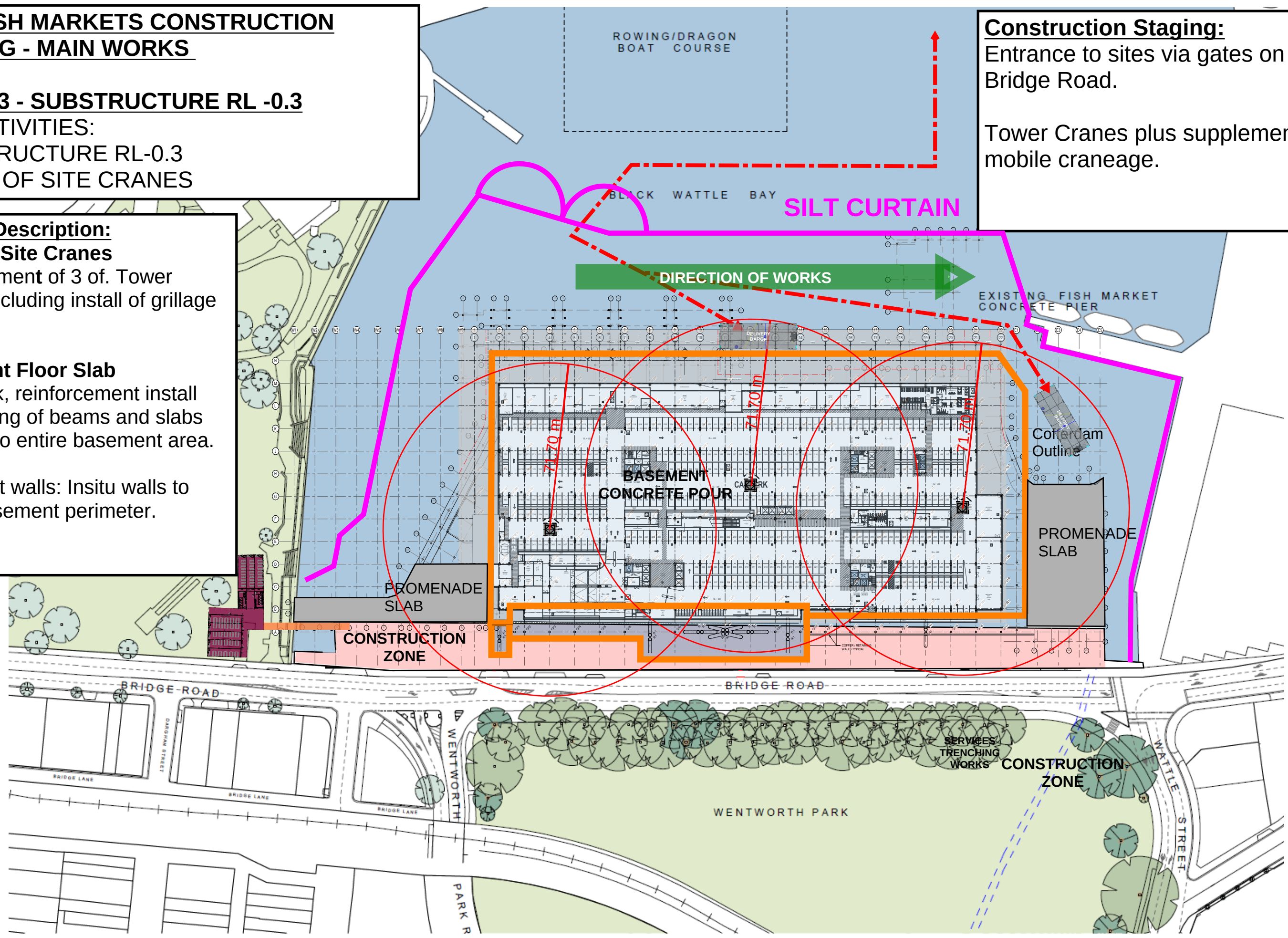
Activity Description:
Setup of Site Cranes
Establishment of 3 of. Tower Cranes including install of grillage to piles.

Basement Floor Slab
Formwork, reinforcement install and pouring of beams and slabs installed to entire basement area.

Basement walls: Insitu walls to entire basement perimeter.

Construction Staging:
Entrance to sites via gates on Bridge Road.

Tower Cranes plus supplementary mobile craneage.



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STAGE 4 - GROUND FLOOR SLAB RL 3.1

KEY ACTIVITIES:
-GROUND FLOOR

Activity Description:

Ground Floor Slab

Cast in-situ slab to entire basement area RL+3.1

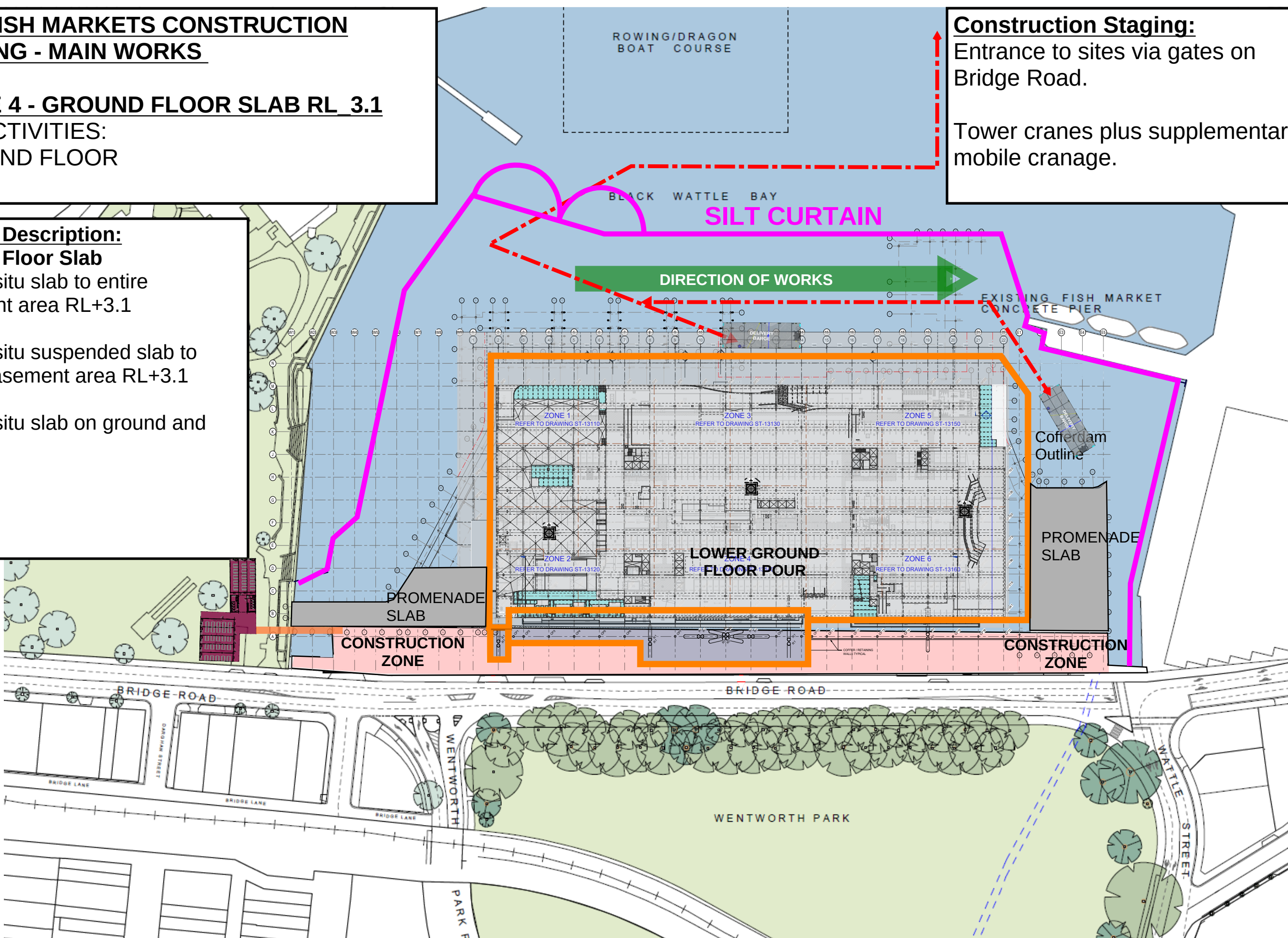
Cast in-situ suspended slab to entire basement area RL+3.1

Cast in-situ slab on ground and piles.

Construction Staging:

Entrance to sites via gates on Bridge Road.

Tower cranes plus supplementary mobile craneage.



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STAGE 5 - SUPERSTRUCTURE

KEY ACTIVITIES:

- UPPER GROUND FLOOR (LEVEL 1) Slab RL +9.6
- MEZZANINE (LEVEL 2) Slab RL +15.1
- BRIDGE ROAD UPGRADE EASTBOUND

Activity Description:

Upper Ground Floor Slab

Cast insitu suspended slab at RL+9.6

Mezzanine Slab

Cast insitu suspended slab at RL+15.1

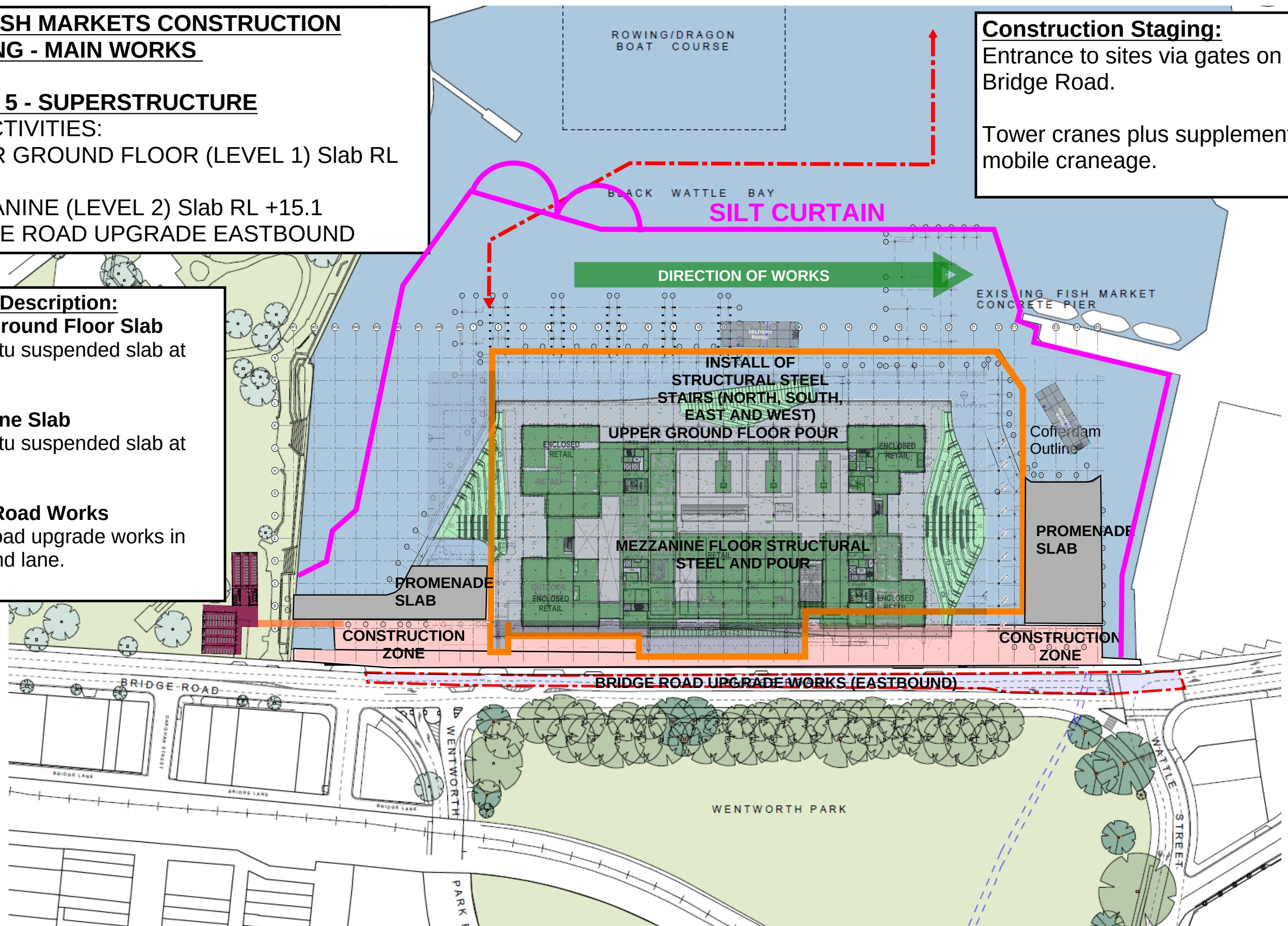
Bridge Road Works

Bridge road upgrade works in eastbound lane.

Construction Staging:

Entrance to sites via gates on Bridge Road.

Tower cranes plus supplementary mobile craneage.



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STAGE 6 - SUPERSTRUCTURE ROOF & COFFERDAM REMOVAL

KEY ACTIVITIES:

- ROOF CONSTRUCTION
- COFFERDAM REMOVAL
- BRIDGE ROAD UPGRADE WORKS (WESTBOUND)

Activity Description:

Roof Construction

Structural Steel Columns
CLT Primary structure.
Structural Steel secondary
structure
Prefabricated cassette roof
modules

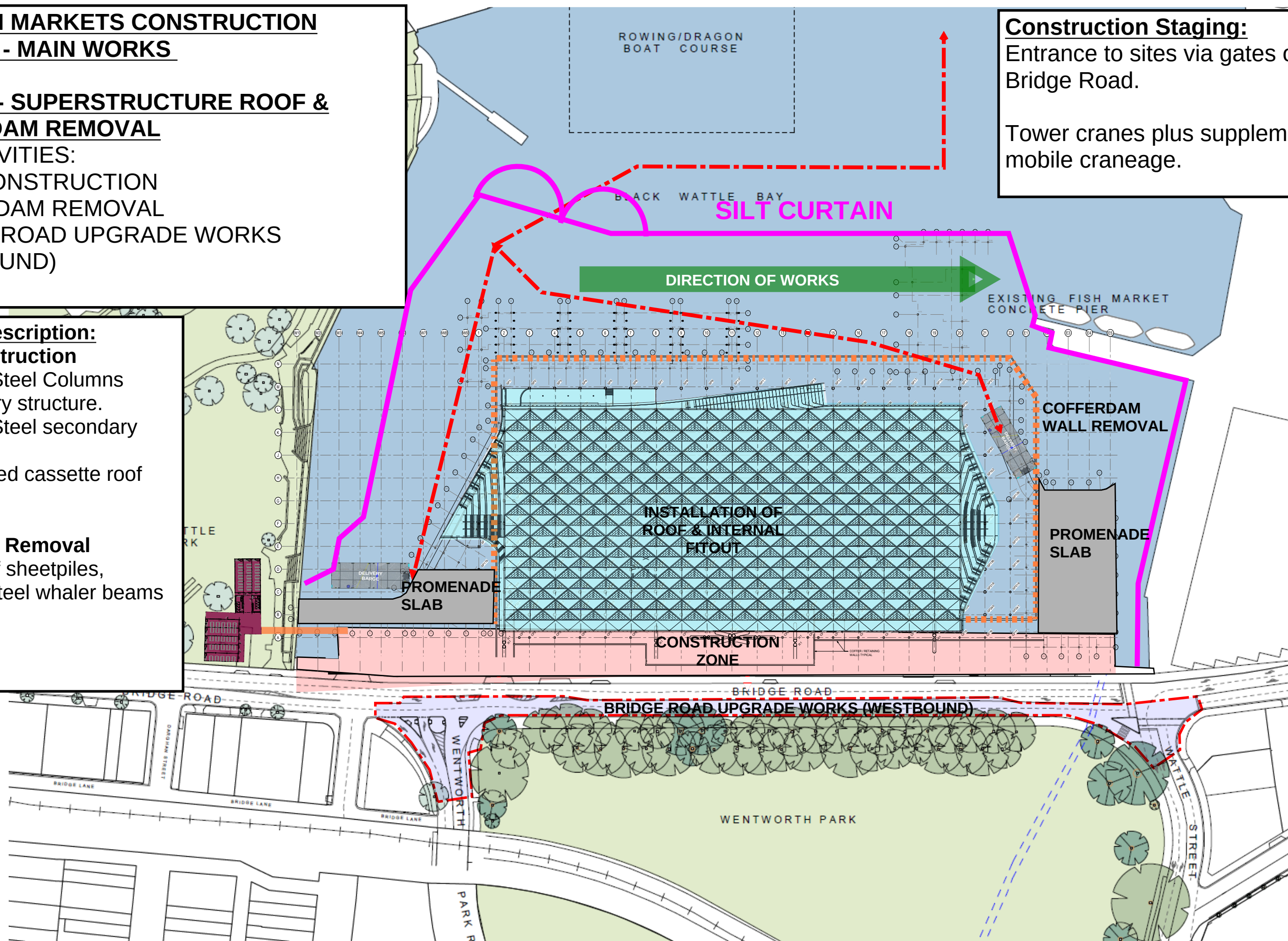
Cofferdam Removal

Removal of sheetpiles,
structural steel whaler beams
via barge

Construction Staging:

Entrance to sites via gates on Bridge Road.

Tower cranes plus supplementary mobile craneage.



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STAGE 7 - COFFERDAM REMOVAL, PROMENADE MARINE PILING AND INTERNAL BUILDING WORKS

KEY ACTIVITIES:

- COFFERDAM REMOVAL
- PROMENADE WORKS
- INTERNAL BUILDING WORKS
- ONGOING BRIDGE ROAD UPGRADE (WESTBOUND)

Construction Staging:

Entrance to sites via gates on Bridge Road.

Tower cranes plus supplementary mobile craneage.

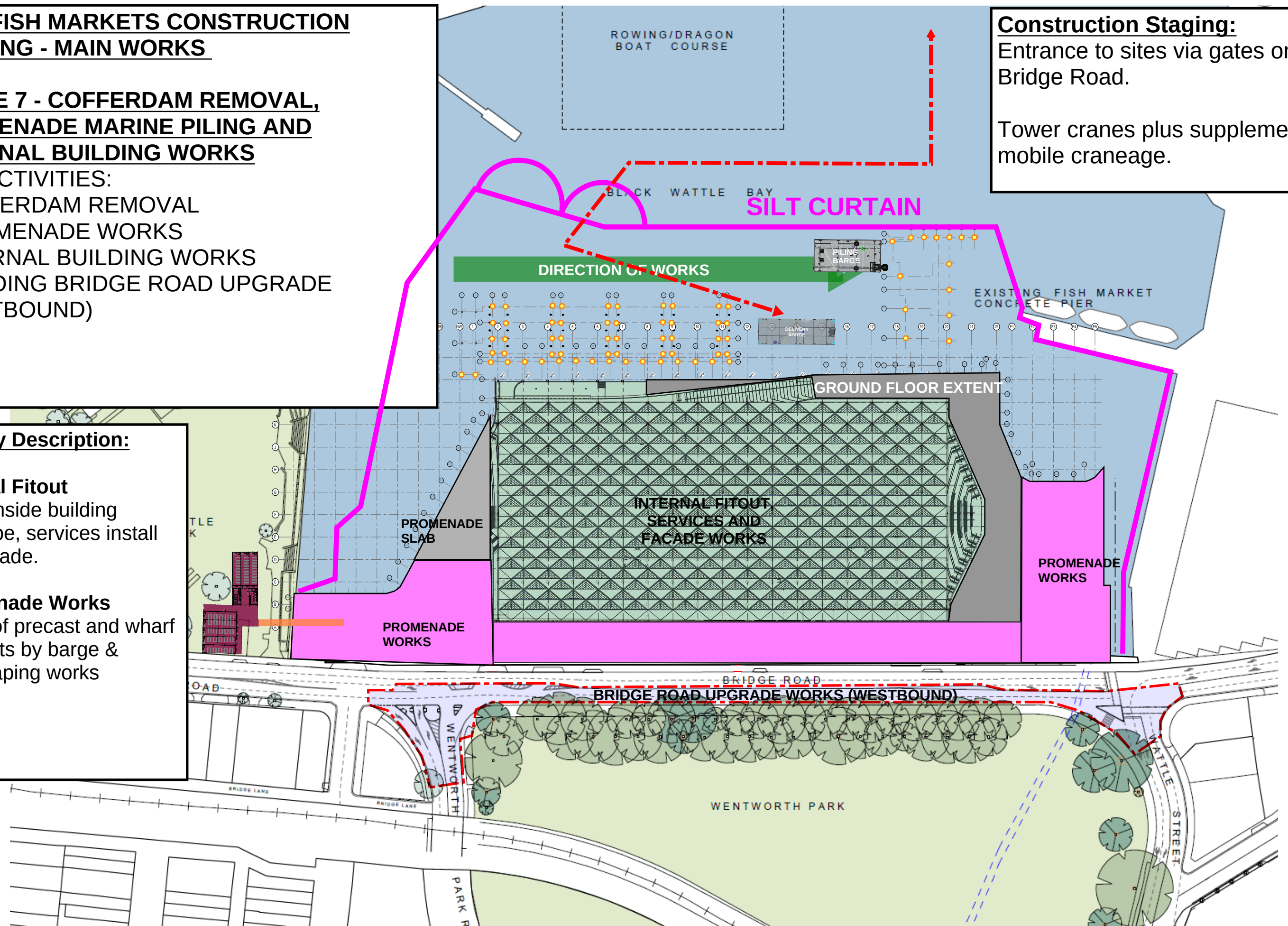
Activity Description:

Internal Fitout

Fitout inside building envelope, services install and facade.

Promenade Works

Install of precast and wharf elements by barge & landscaping works



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STAGE 8 -PROMENADE AND WHARF
CONSTRUCTION AND INTERNAL BUILDING
WORKS

KEY ACTIVITIES:

- ONGOING INTERNAL FITOUT
- WHARF CONSTRUCTION
- EXTERNAL WORKS
- BRIDGE ROAD FINALISATION

Activity Description:

Wharf Completion

Installation of precast promenade and wharf elements by barge

Internal Works

Fitout, Services, Facade

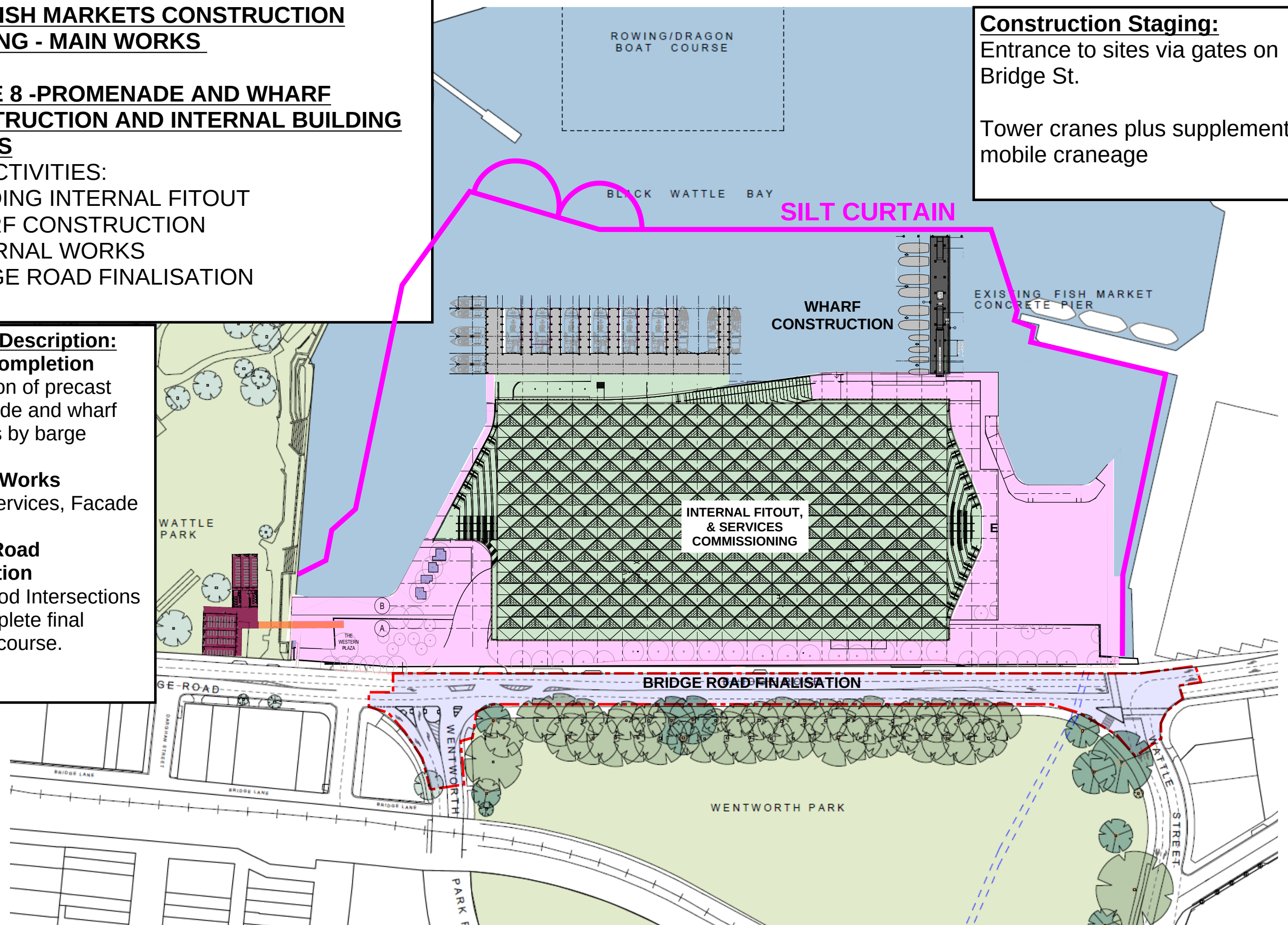
Bridge Road Finalisation

Make good Intersections and complete final wearing course.

Construction Staging:

Entrance to sites via gates on Bridge St.

Tower cranes plus supplementary mobile craneage



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STAGE 9 - NEW FISH MARKET PRACTICAL **COMPLETION, WHARF WORKS and** **PROMENADE COMPLETION**

KEY ACTIVITIES:

- COMPLETION OF WHARVES
- TESTING COMMISSIONING AND OPENING OF NEW FISH MARKET

Activity Description:

Wharf Completion

Completion of new fish market public wharf for use.

Fish Market Practical Completion

User testing and training in the space. Opening of Fish market for operation.

Site Accommodation Dismantle

Dismantle site accommodation complex

Construction Staging:

Entrance to sites via former fish markets.

