

UrbanGrowth NSW Development Corporation

The new Sydney Fish Market – Construction Staging – Early Works

April 2019



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Development Corporation

New fish market - Construction Staging
Early Works – Demolition
Stage 1 – Demolition of above ground structures on Wharfs

Building Description Description

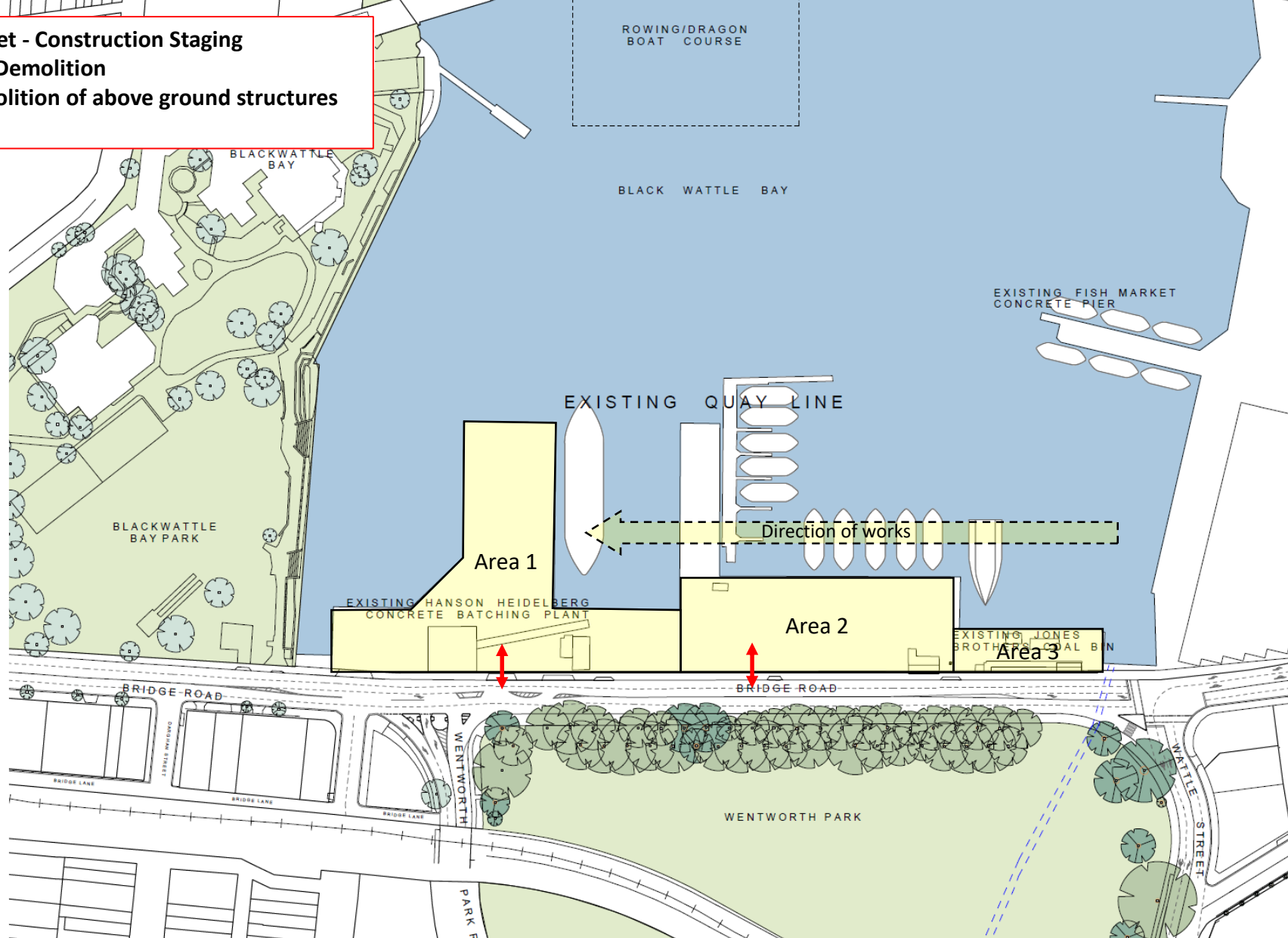
Area 1: Concrete Batching Plant Structures

Area 2: Black Wattle Bay Marina buildings

Area 3: Coal Loader

Construction Staging

- Construction vehicle entrance/exit via existing Hanson and BBM gates



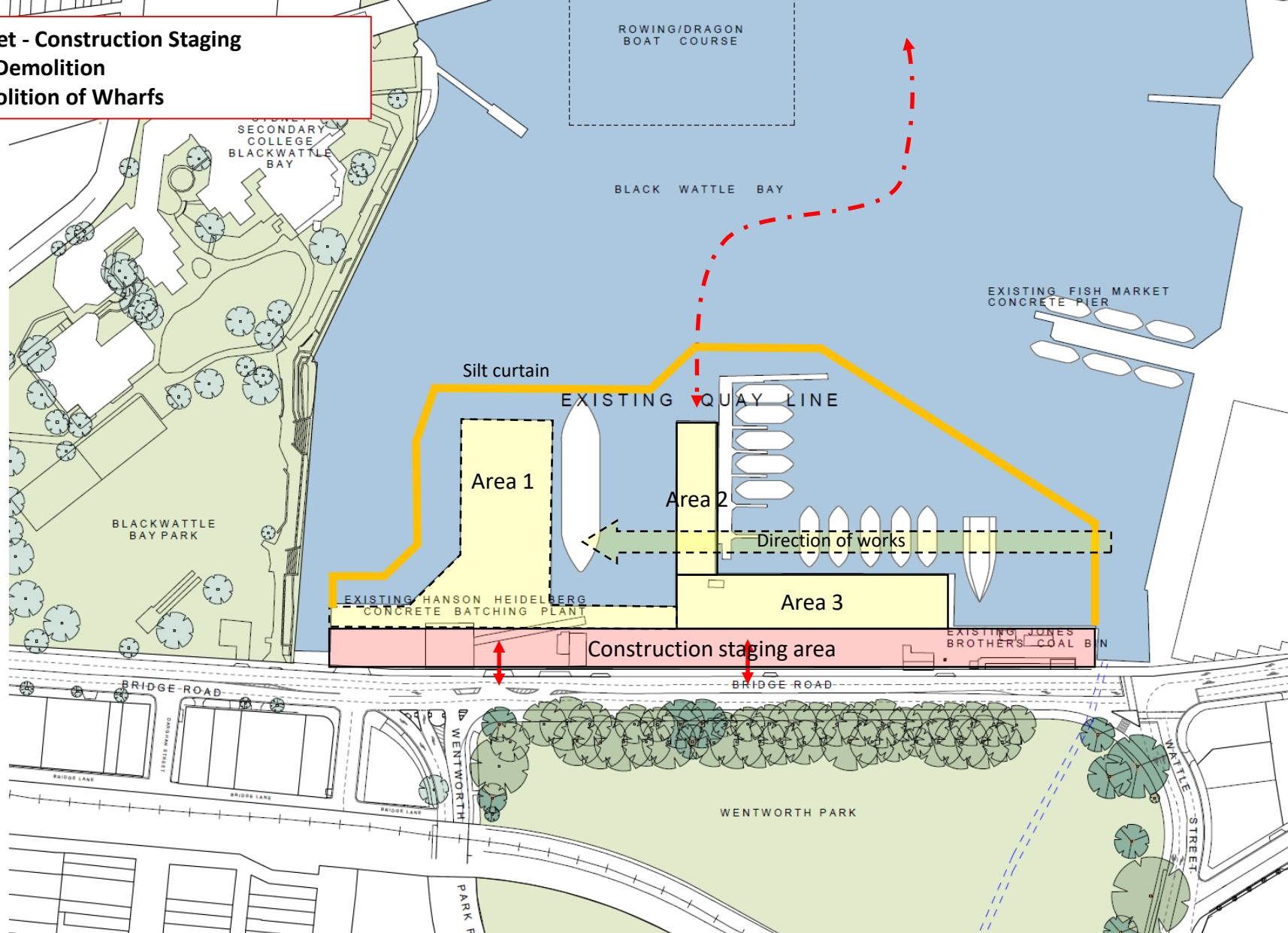
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 MORETON BAY FIG TREES
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■ OUTER SITE EXTENTS TREES

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New fish market - Construction Staging
Early Works – Demolition
Stage 2 – Demolition of Wharfs



Wharf Description

- Area 1: Reinforced concrete deck supported by hardwood girders and headstocks, in turn supported by turpentine piles.
- Area 2: Asphalt applied to reinforced concrete deck supported by concrete reinforced substructure, in turn supported by a mix of turpentine & raking reinforced concrete piles.
- Area 3: Post tensioned reinforced concrete slab supported by post tensioned reinforced concrete beams, in turn supported by steel piles.

Construction Staging

- Entrance via existing Hanson and BBM gates
- Area 1 may be left insitu depending on Main works builders requirements for construction staging

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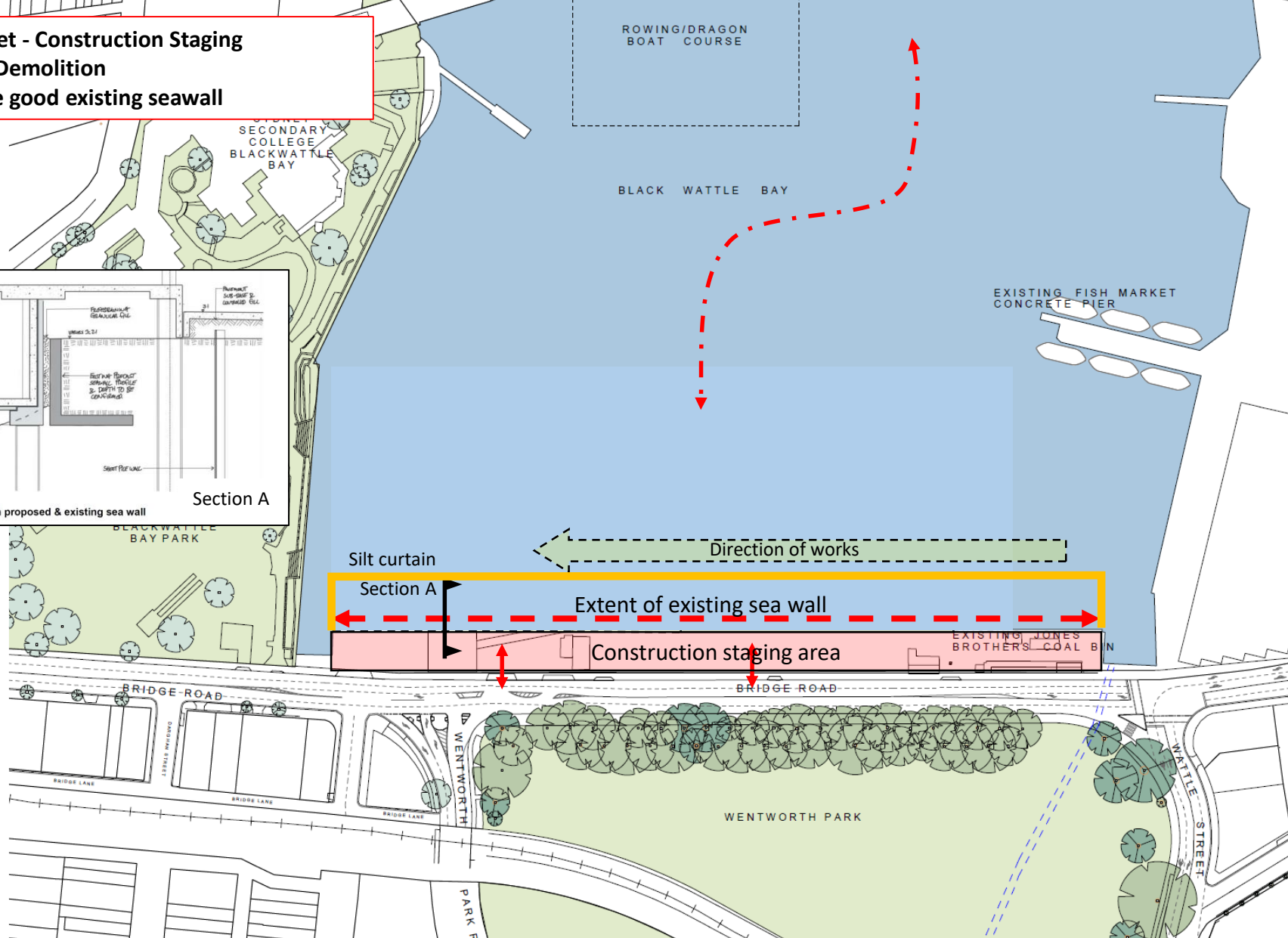
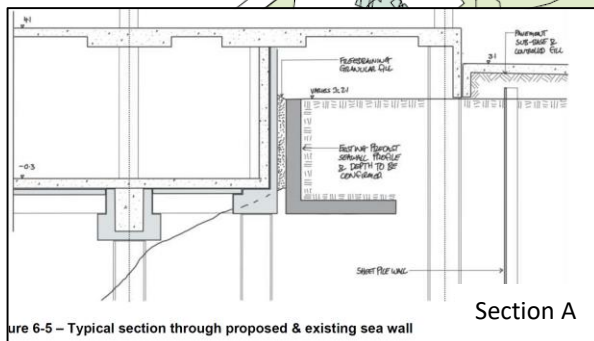
New fish market - Construction Staging
Early Works – Demolition
Stage 3 – Make good existing seawall


Make good existing seawall

- Structural make good works to Sea wall
- Cap sea wall with concrete reinforced capping beam to match existing hardstand

Construction Staging

- Entrance via existing Hanson and BBM gates



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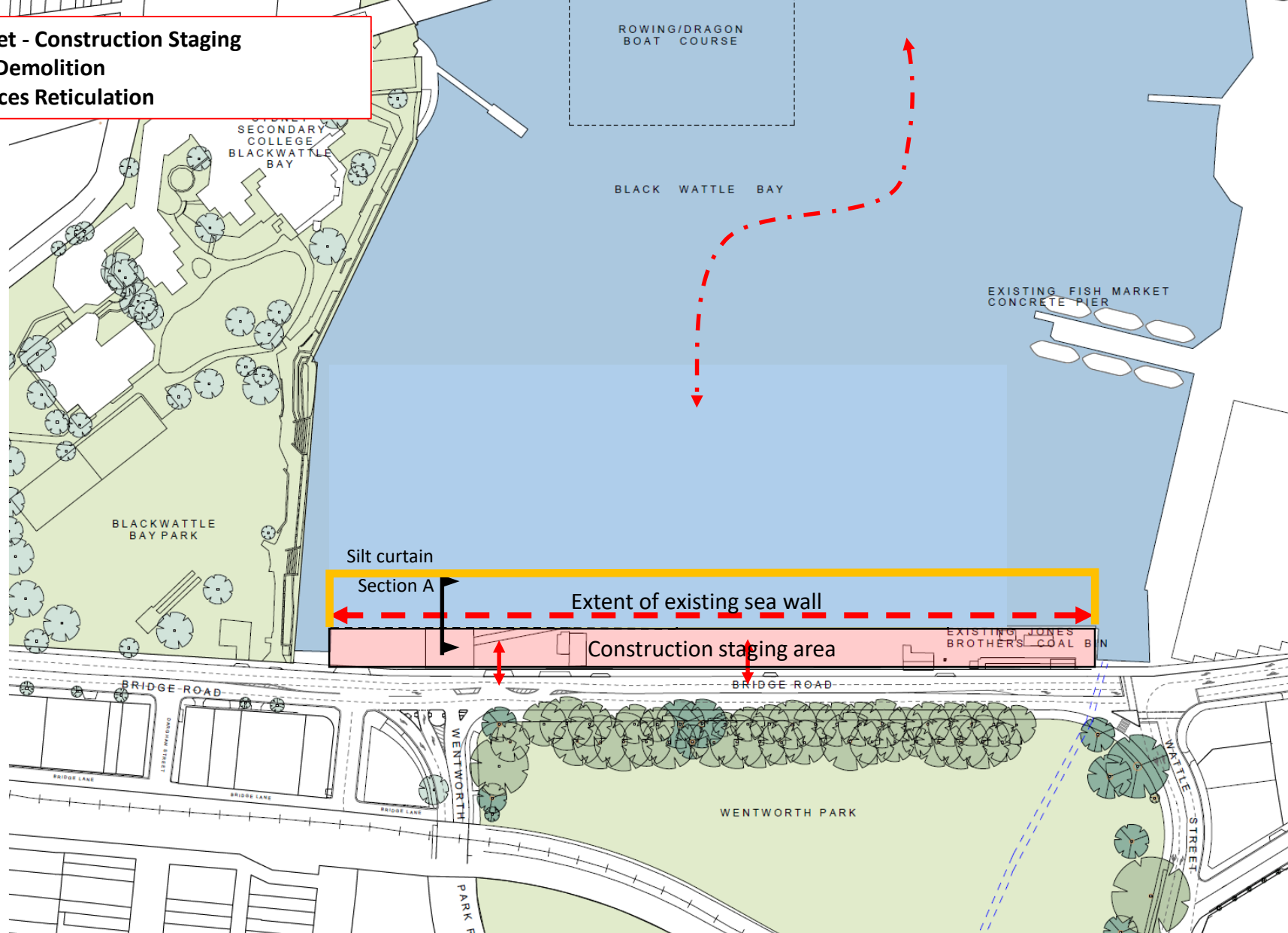
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New fish market - Construction Staging
Early Works – Demolition
Stage 4 – Services Reticulation

- Services Reticulation Description**
- Underground existing overhead services
 - Provide lead-in connections for water, wastewater, gas and electricity

Construction Staging

- Entrance via existing Hanson and BBM gates



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The new Sydney Fish Market – Construction Staging – Main Works

April 2019

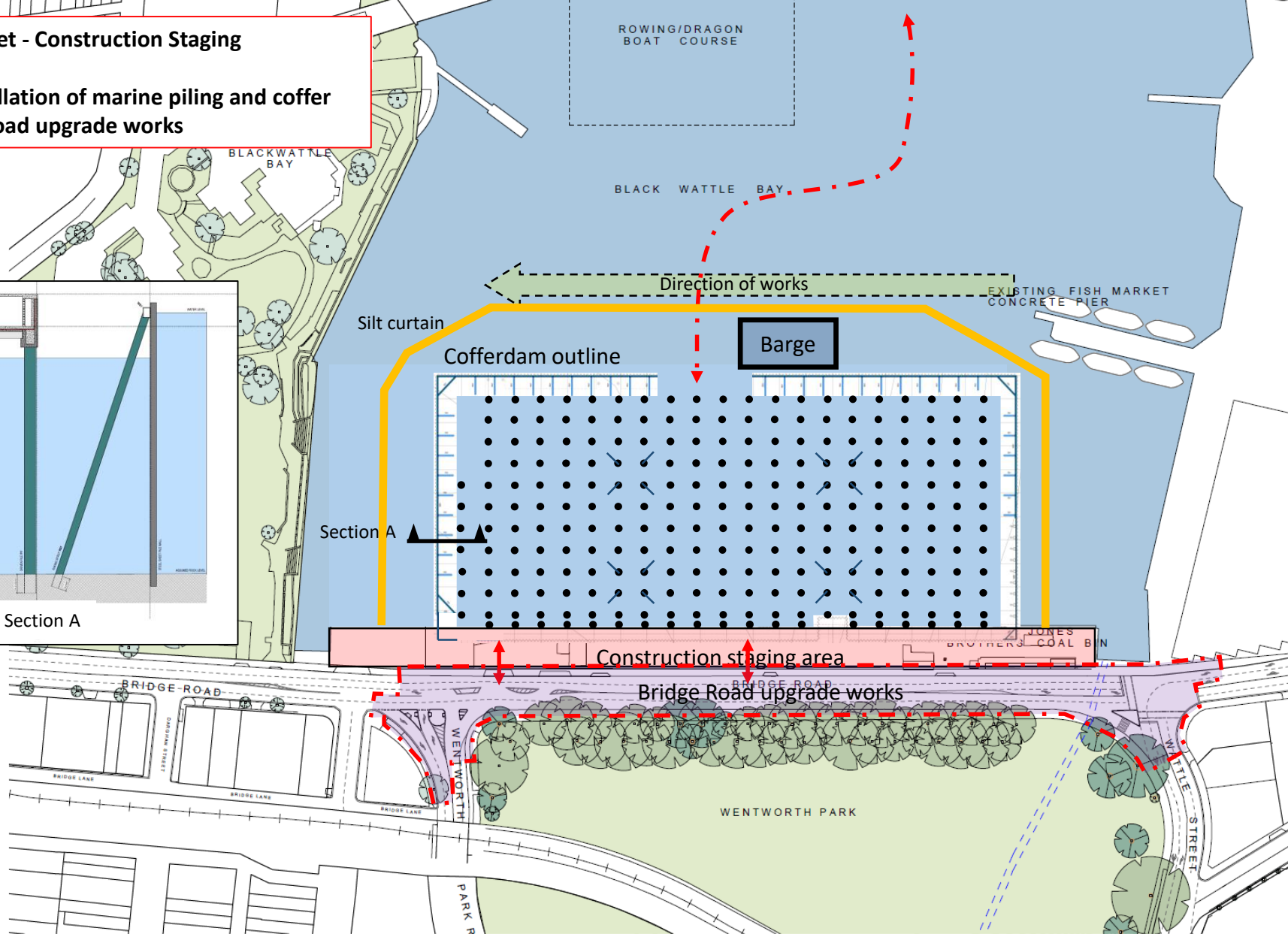
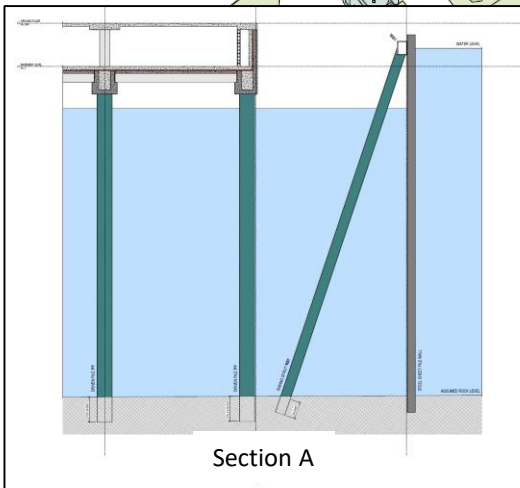


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New fish market - Construction Staging

Main Works

Stage 1 – Installation of marine piling and coffer dam. Bridge Road upgrade works



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Marine Piling Description

- 210 x Steel Hollow Section (CHS) piles driven into Class III rock.
- 16 x CHS raking piles around core locations.

Cofferdam Description

- Single skin sheet pile coffer dam wall made up of 450 x AZ1400 sheetpiles x 20m long
- Sheetpiles installed landside on South elevation and waterside on all other elevations.
- Structural steel wailer beams
- Raking and cantilevered props to rock

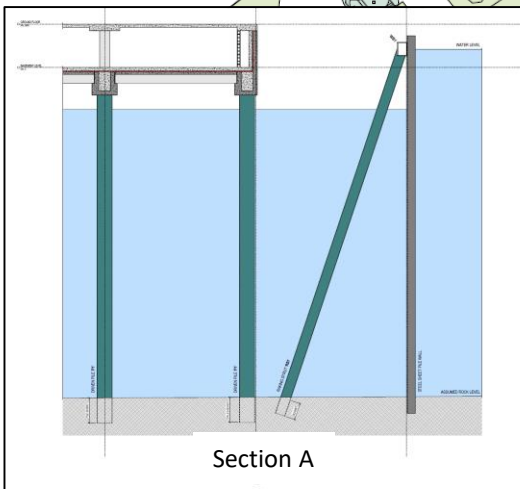
Bridge Road upgrade works

- Intersection, road and services upgrade works – see separate staging plans

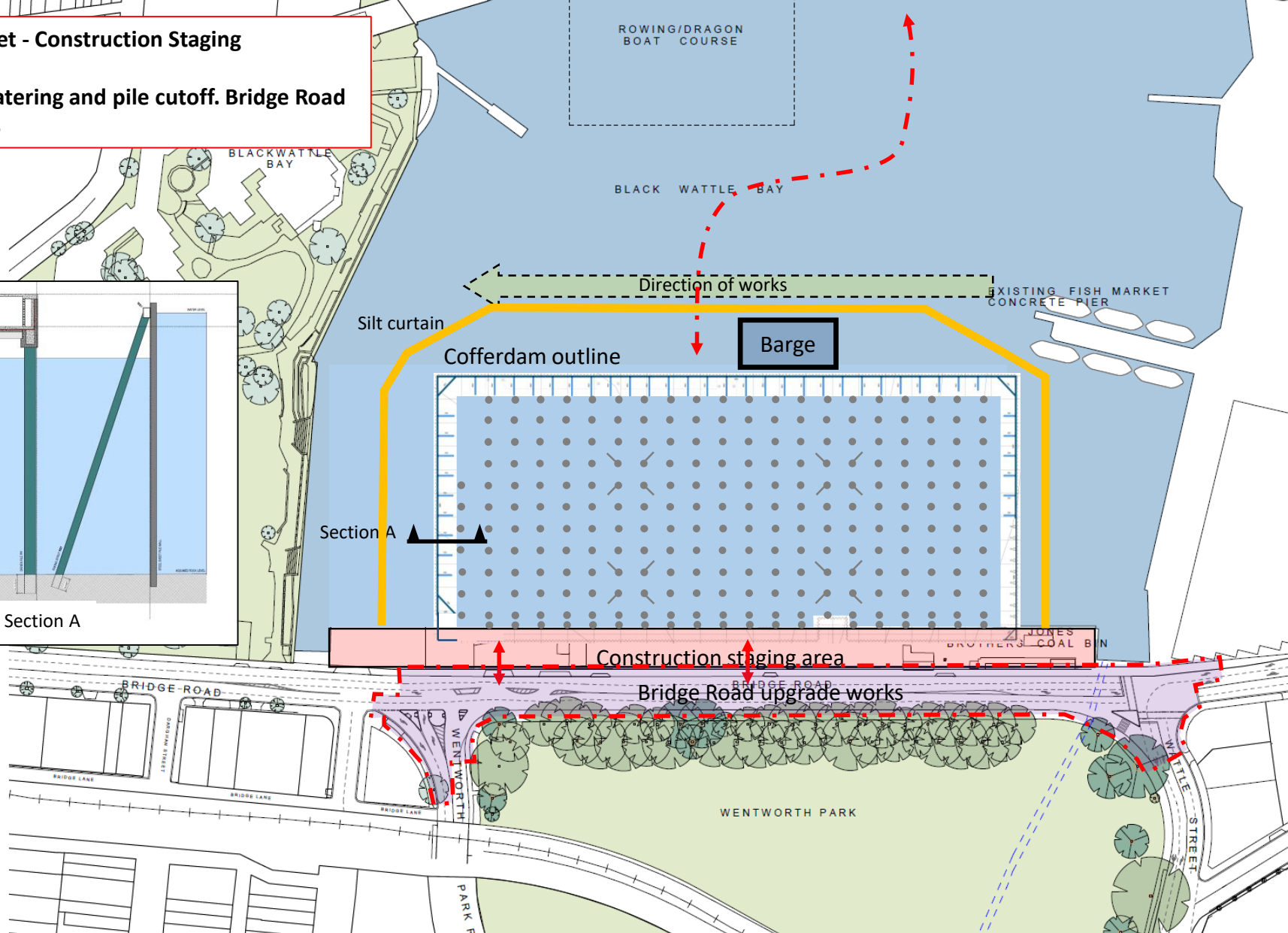
Construction Staging

- Entrance via existing Hanson and BBM gate
- Gap in cofferdam maintained on northern elevation for barge access until all piling complete

New fish market - Construction Staging
Main Works
Stage 2 – Dewatering and pile cutoff. Bridge Road upgrade works



Section A



Dewatering Description

- Dewater approx. 2m of water to expose top of piles using submersible pumps

Pile cutoff Description

226 x piles trimmed to receive pile cap
 Bridge Road upgrade works

- Intersection, road and services upgrade works – see separate staging plans

Construction Staging

- Entrance via existing Hanson gate
- Small barge 'locked' inside cofferdam for pile trimming works
- Large barge outside cofferdam for pile trimming works

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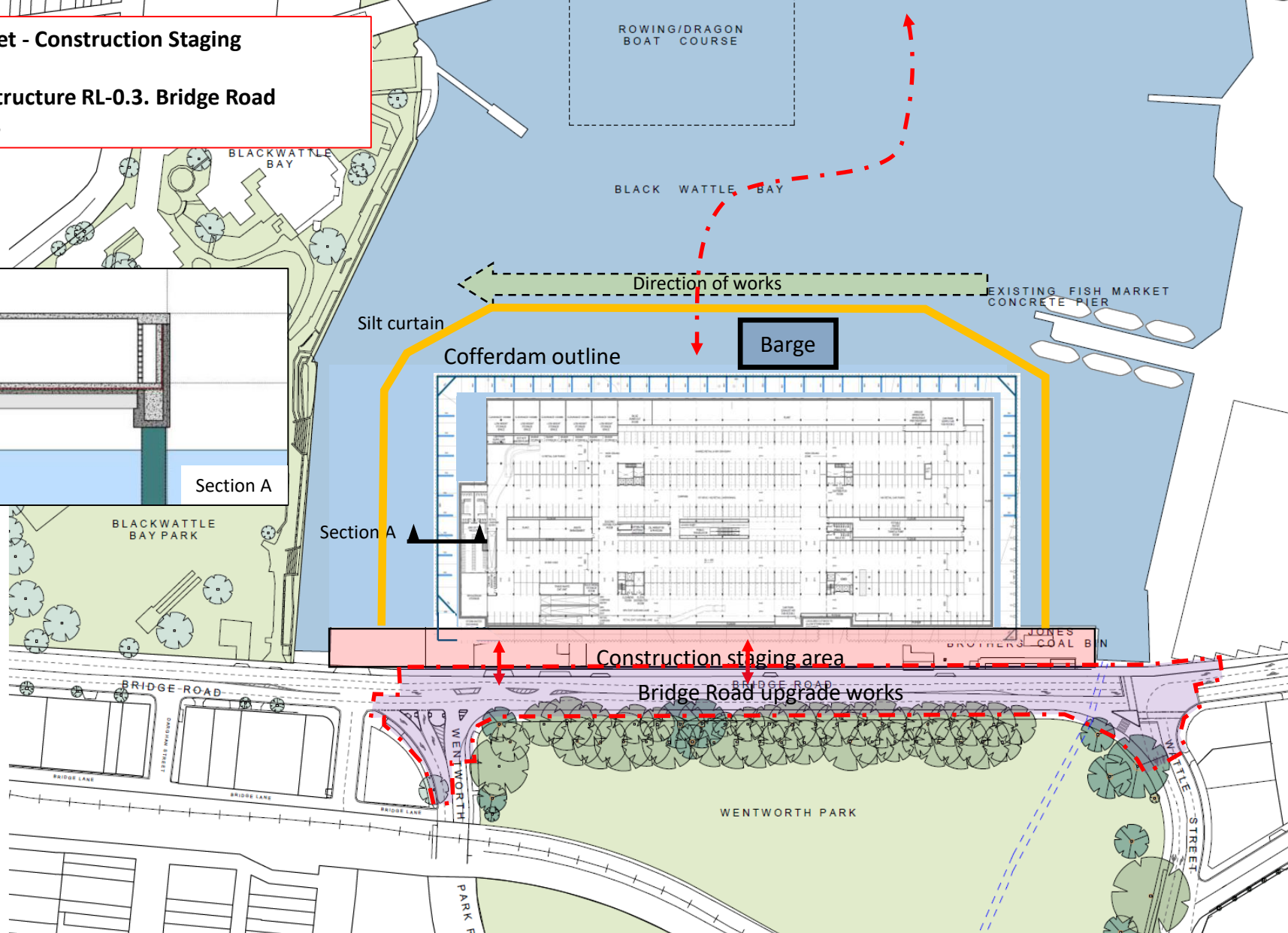
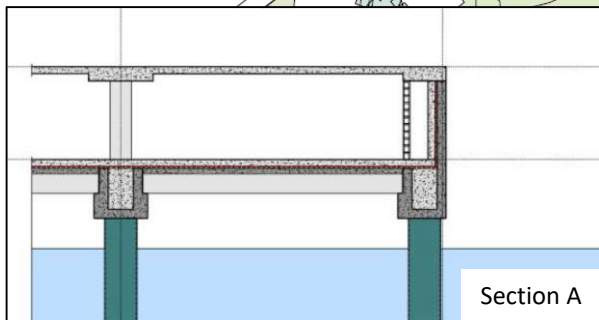
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New fish market - Construction Staging
Main Works
Stage 3 – Substructure RL-0.3. Bridge Road
upgrade works



Precast substructure Description

- **Basement Slab:** Precast pile caps, beams and slabs installed to entire basement area
 - **Basement Walls:** Precast and cast insitu walls to entire basement perimeter
 - **Cast insitu slab** to entire basement area to RL -0.3
- Bridge Road upgrade works**
- **Intersection, road and services upgrade works** – see separate staging plans

Construction Staging

- **Entrance via existing Hanson and BBM gates**

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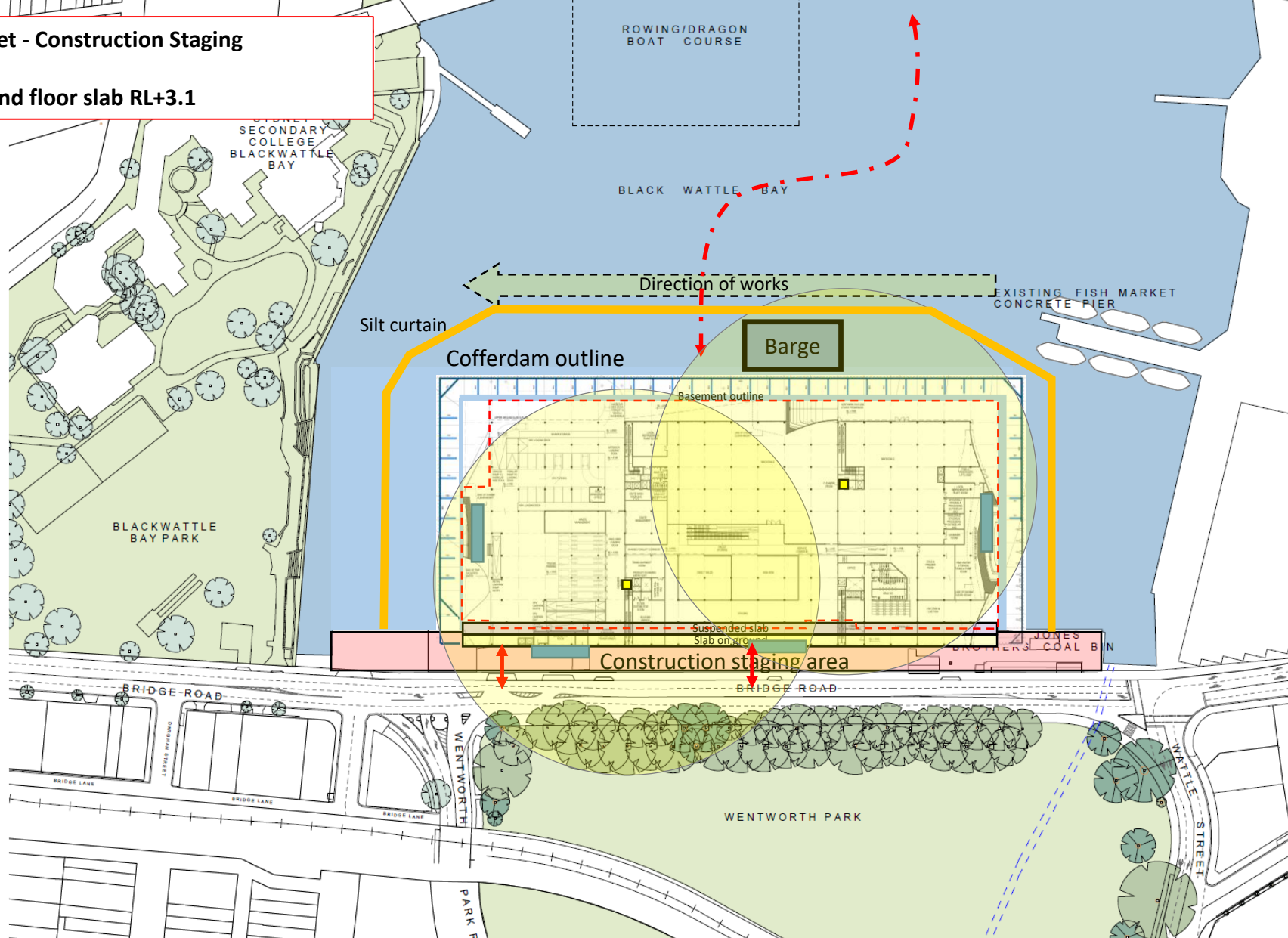
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New fish market - Construction Staging
Main Works
Stage 4 – Ground floor slab RL+3.1

- Ground floor slab Description**
- Cast insitu slab to entire basement area to RL+3.1
 - Cast insitu suspended slab over sea wall at RL+3.1
 - Cast insitu slab on ground and piles

- Construction Staging**
- Entrance via existing Hanson and BBM gates
 - Tower cranes plus supplementary mobile crainage



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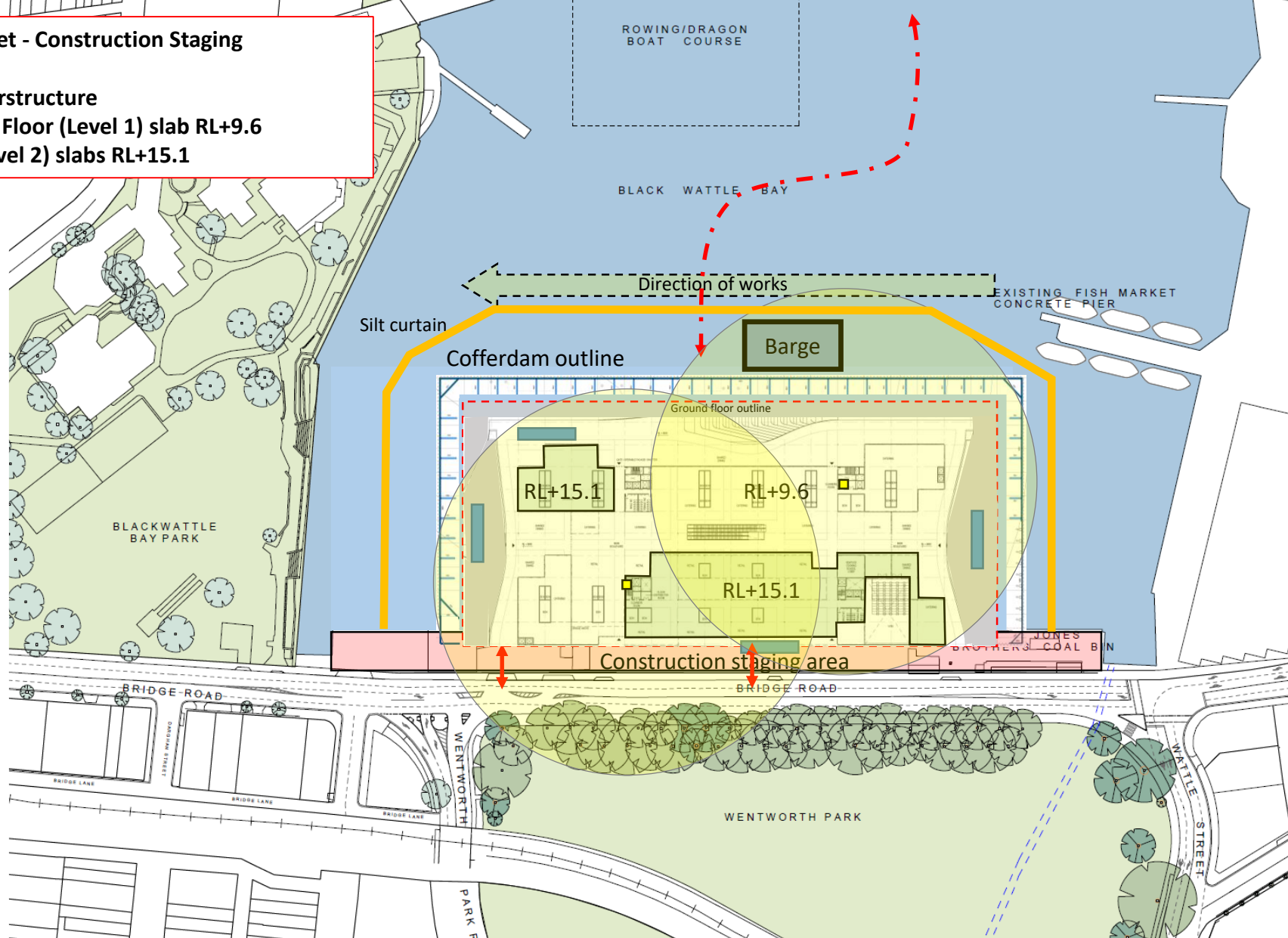
New fish market - Construction Staging
Main Works
Stage 5 – Superstructure
Upper Ground Floor (Level 1) slab RL+9.6
Mezzanine (Level 2) slabs RL+15.1

Ground floor slab Description

- Cast insitu suspended slab at RL+9.6
- Cast insitu suspended slab at RL+15.1

Construction Staging

- Entrance via existing Hanson and BBM gates
- Tower cranes plus supplementary mobile crainage



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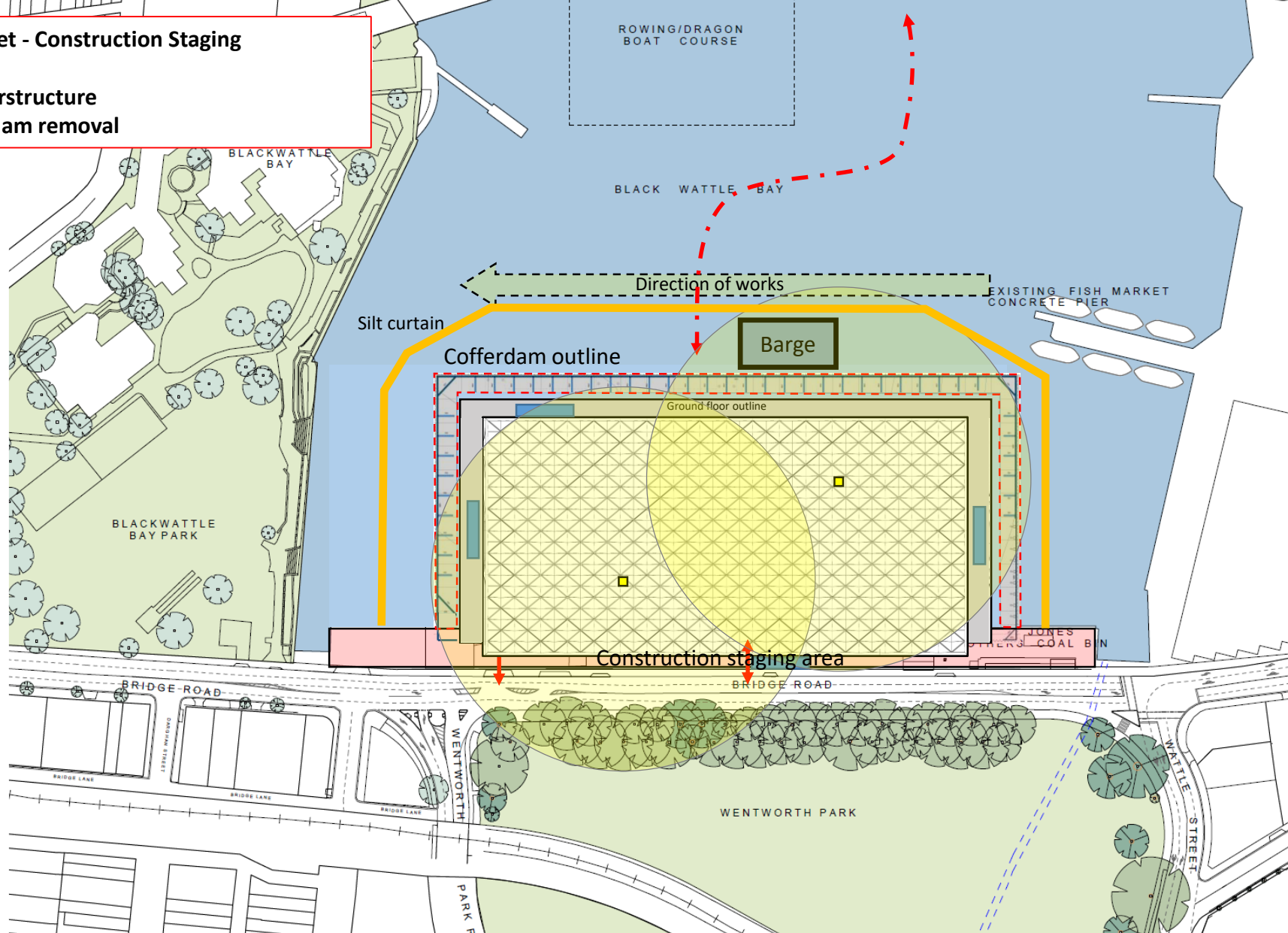
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New fish market - Construction Staging
Main Works
Stage 6 – Superstructure
Roof & Cofferdam removal



Roof Description

- Structural steel columns x 220
- CLT primary structure. 600 beams 1.2m x 0.4m x 10.8m
- Structural steel secondary structure
- Prefabricated roof modules x 200.

Cofferdam removal description

- Remove sheetpiles, structural steel wailer beams and raking & cantilevered props via barge

Construction Staging

- Entrance via existing Hanson and BBM gates
- Tower cranes plus supplementary mobile crainage

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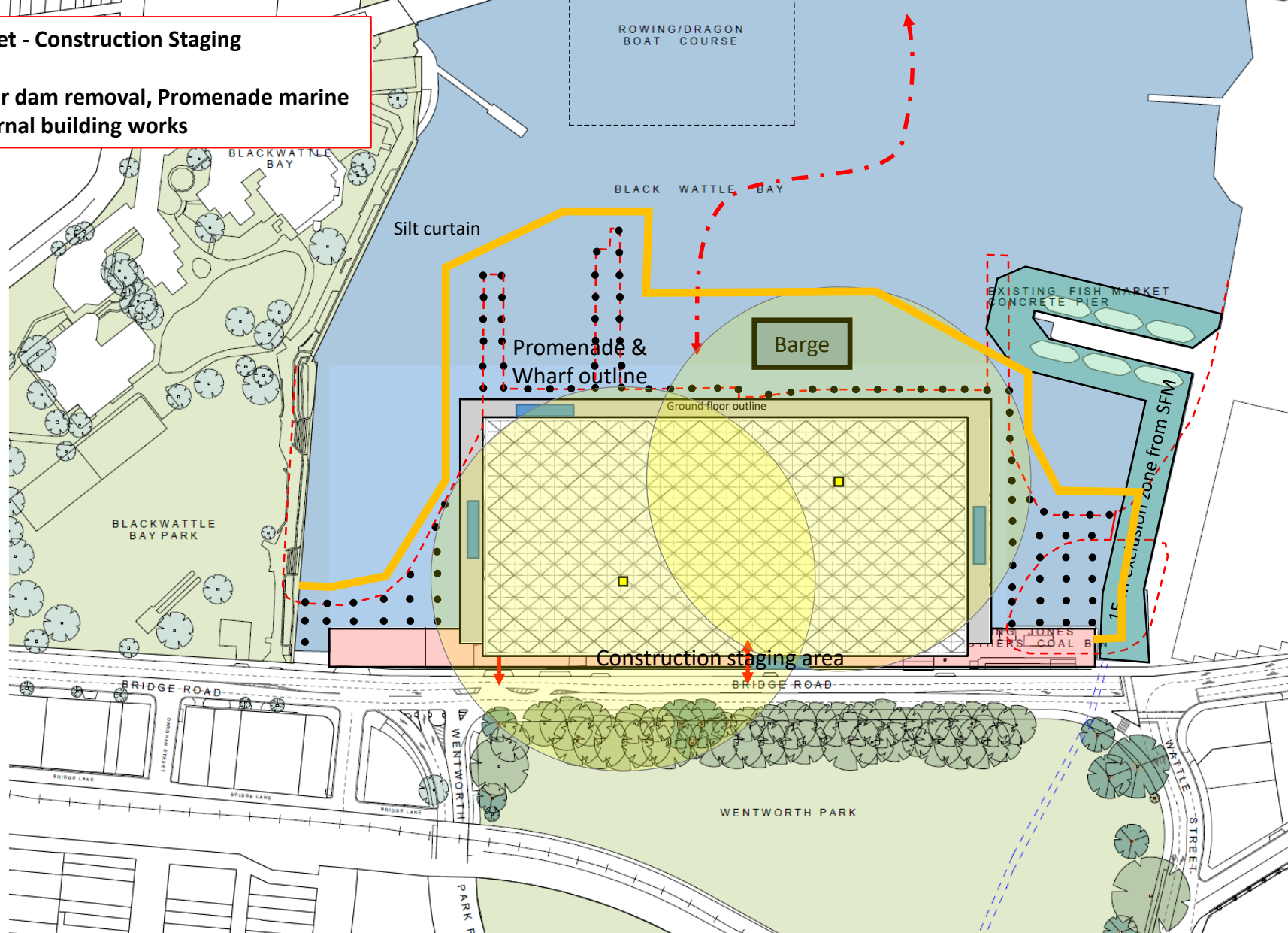
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New fish market - Construction Staging

Main Works

Stage 7 – Cofferdam removal, Promenade marine piling and internal building works



Cofferdam removal description

- Remove sheetpiles, structural steel wailer beams and raking & cantilevered props via barge

Promenade marine piling

Description


- 100 x Steel Hollow Section (CHS) piles driven into Class III rock.

Internal Works description

- Fitout, Services, Facade


Construction Staging

- Entrance via existing Hanson and BBM gates
- Tower cranes plus supplementary mobile crainage

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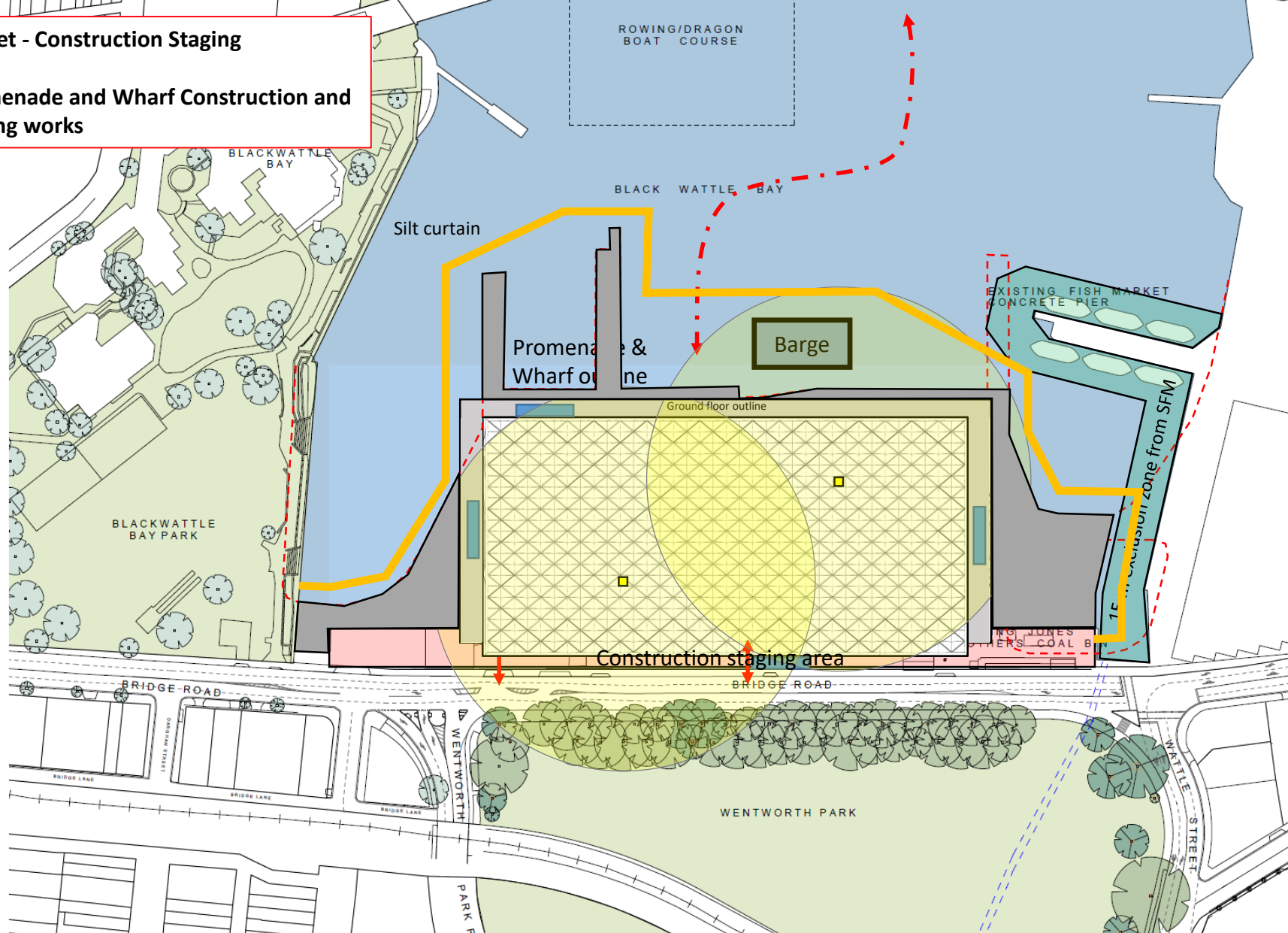
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New fish market - Construction Staging
Main Works
Stage 8 – Promenade and Wharf Construction and internal building works

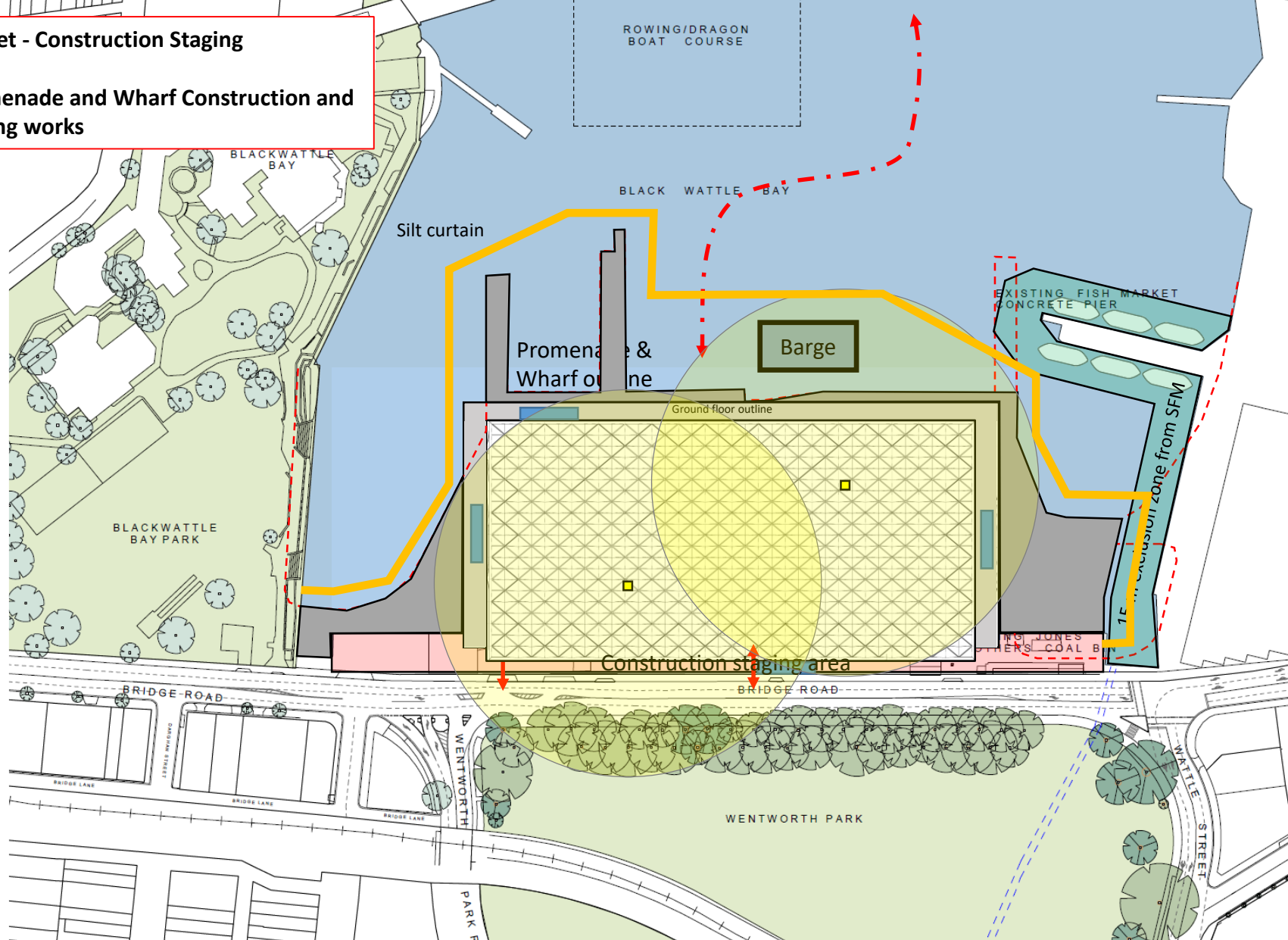
- Promenade and Wharf Construction description**
- Installation of precast promenade and wharf elements by barge
- Internal Works description**
- Fitout, Services, Facade



- Construction Staging**
- Entrance via existing Hanson and BBM gates
 - Tower cranes plus supplementary mobile crainage

New fish market - Construction Staging
Main Works
Stage 9 – Promenade and Wharf Construction and internal building works

- Promenade and Wharf Construction description**
- Installation of precast promenade and wharf elements by barge
- Internal Works description**
- Fitout, Services, Facade



- Construction Staging**
- Entrance via existing Hanson and BBM gates
 - Tower cranes plus supplementary mobile crainage

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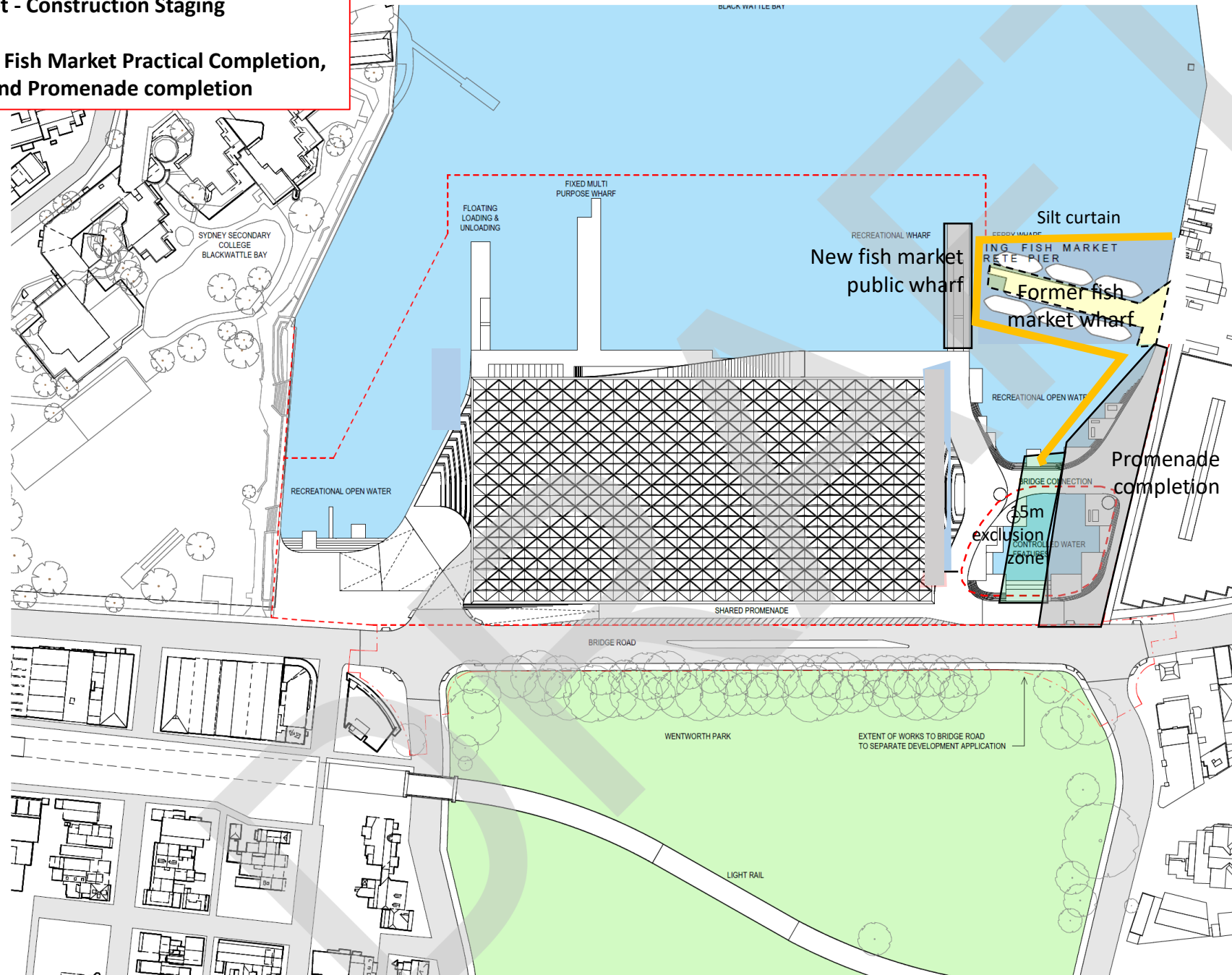
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New fish market - Construction Staging

Main Works

Stage 10 – New Fish Market Practical Completion, Wharf works, and Promenade completion



New Fish Market Practical Completion description

- Testing commissioning and opening of new fish market for operation.

Wharf works description

- Demolition of former fish market wharf
- Construction of new fish market public wharf

Promenade completion description

- Marine piling, precast promenade, and landscaping works to tie into former fish market site.

Construction Staging

- Entrance via former fish market site