

# New Cross Gate Station

Sainsbury's/ Mount Anvil

*Progress Meeting*

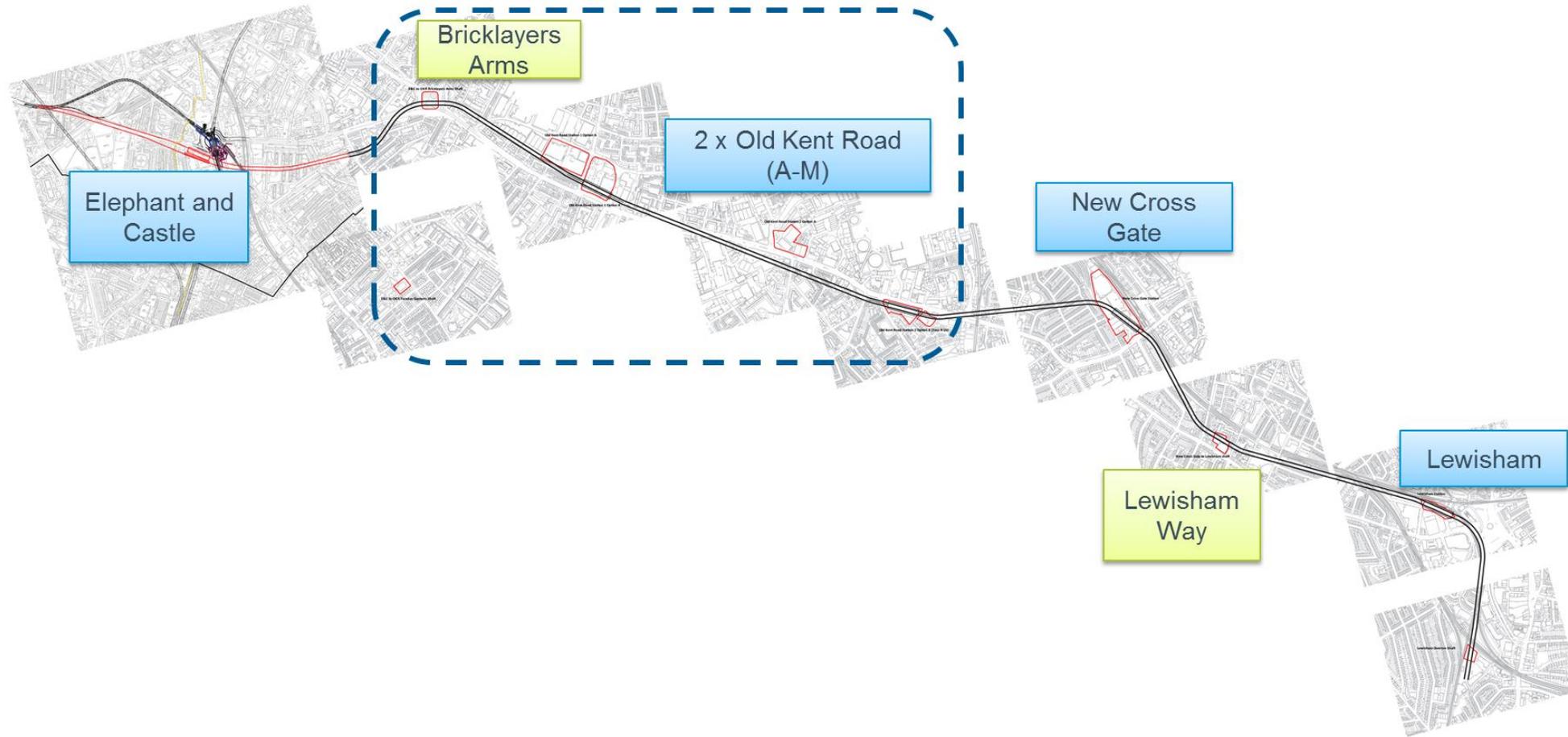
*Monday 18<sup>th</sup> December, 15:00-16:00*

# Agenda

- Introductions
- Recap of Last Meeting
- TfL Update:
  - Status of Design Work
  - Route Alignment Impacts
  - New Cross Gate Site Considerations
- Sainsbury's and Mount Anvil Update

# Recap of Last Meeting

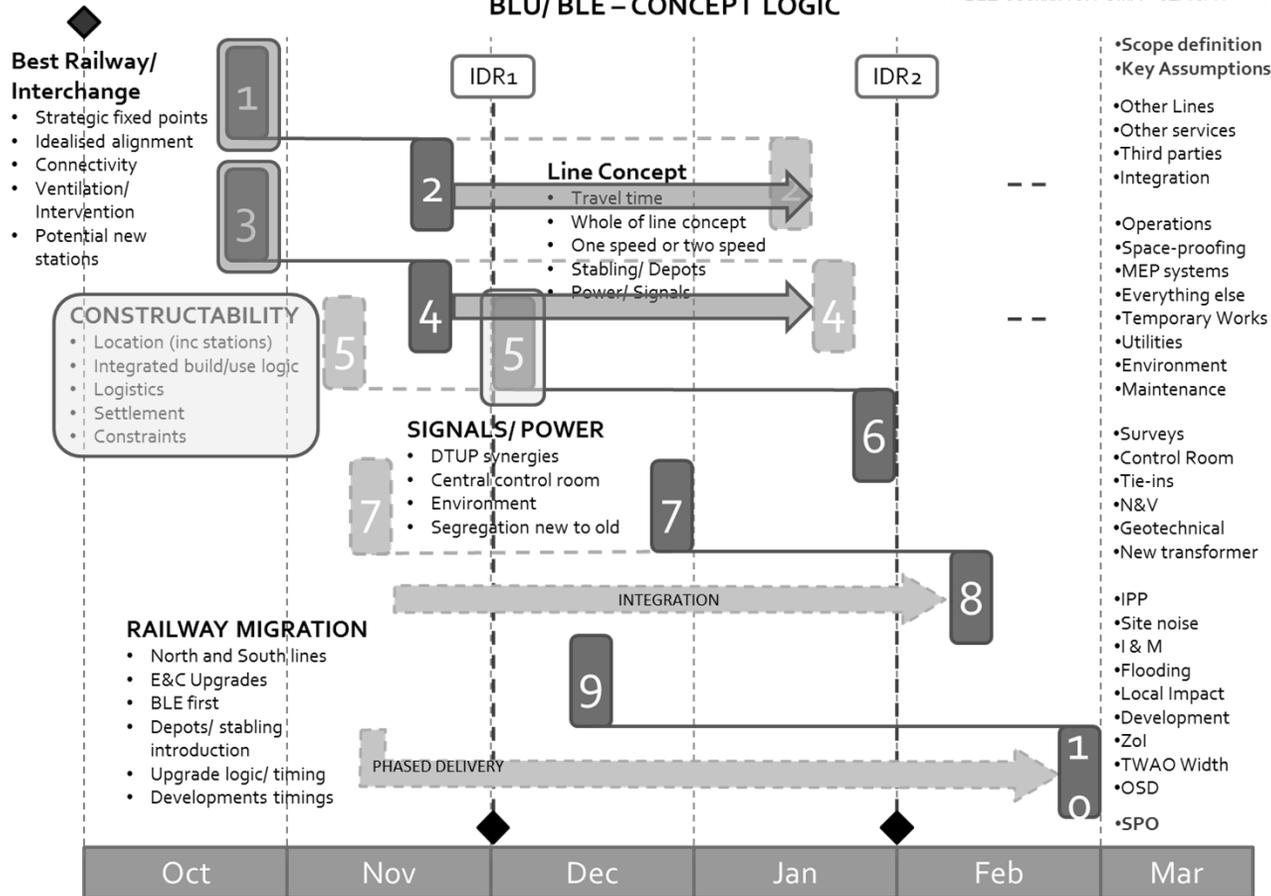
# TfL Update | Status of Design Work



# TfL Update | Status of Design Work

BLE-000xxx v0.1 CMA 02/10/17

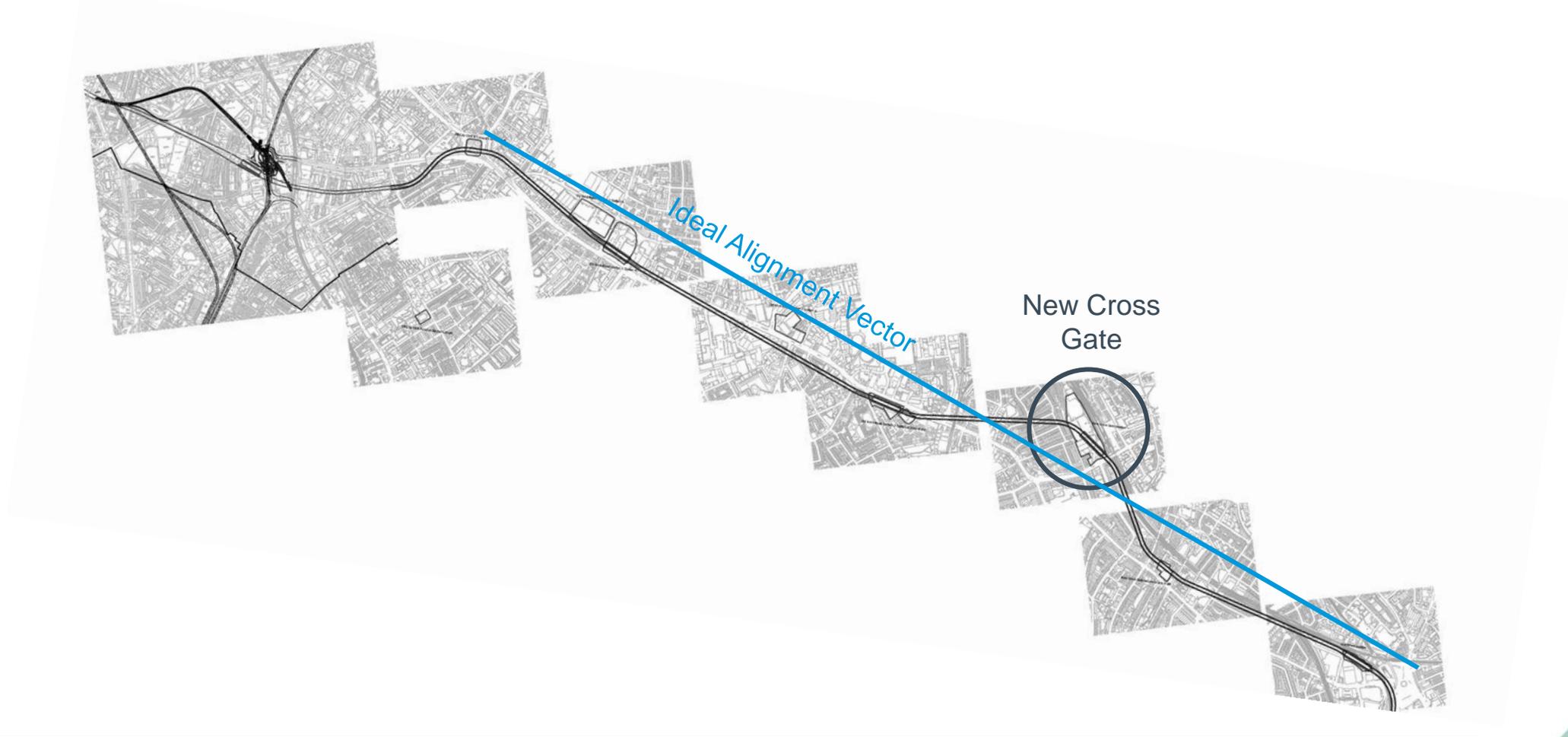
## BLU/ BLE – CONCEPT LOGIC



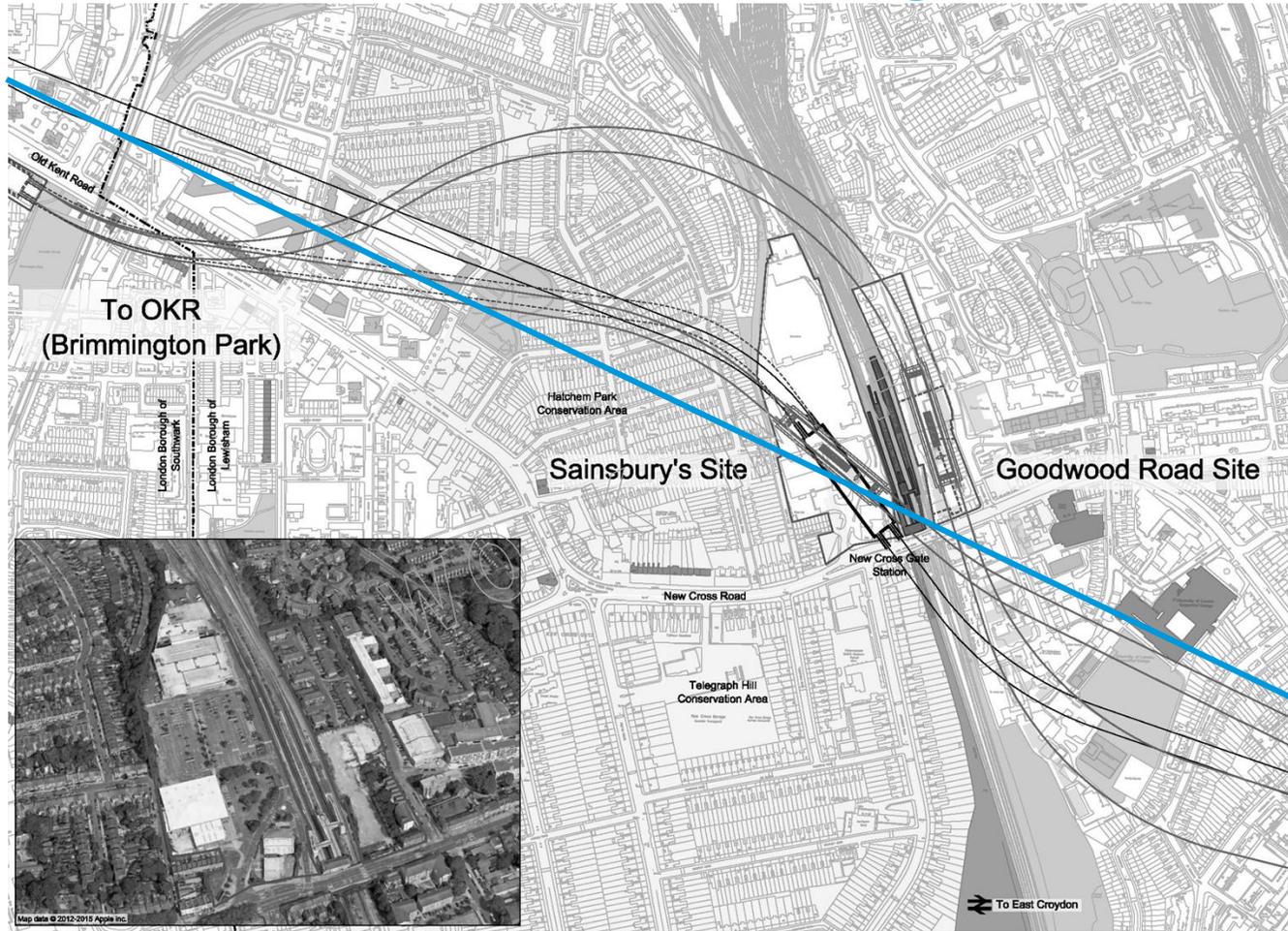
## Work Stream in Progress:

- Best Rail / Interchange
  - Ideal alignment
  - Ventilation / Intervention
  - Tie-in at Elephant & Castle
  - Connectivity
- Whole line operational concept
- Constructability
- Signals / Power
- Railway Migration

# TfL Update | Route Alignment Impacts



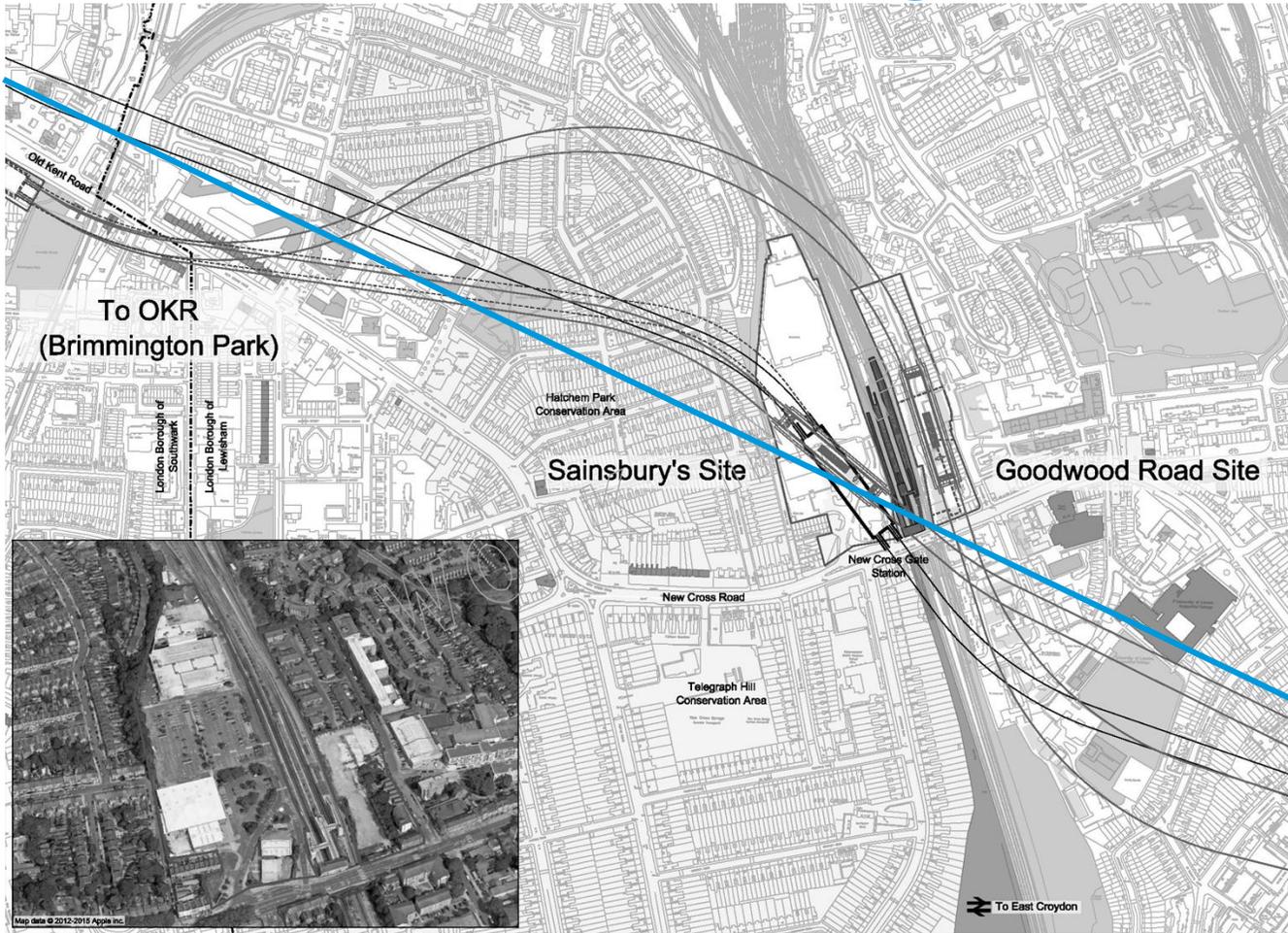
# TfL Update | Route Alignment Impacts



## Straight Alignment:

- Maintain optimum line speed
- Best passenger journey times
- Minimised distance between fire/emergency intervention points (mitigating the potential requirement for additional intervention shafts)

# TfL Update | Route Alignment Impacts



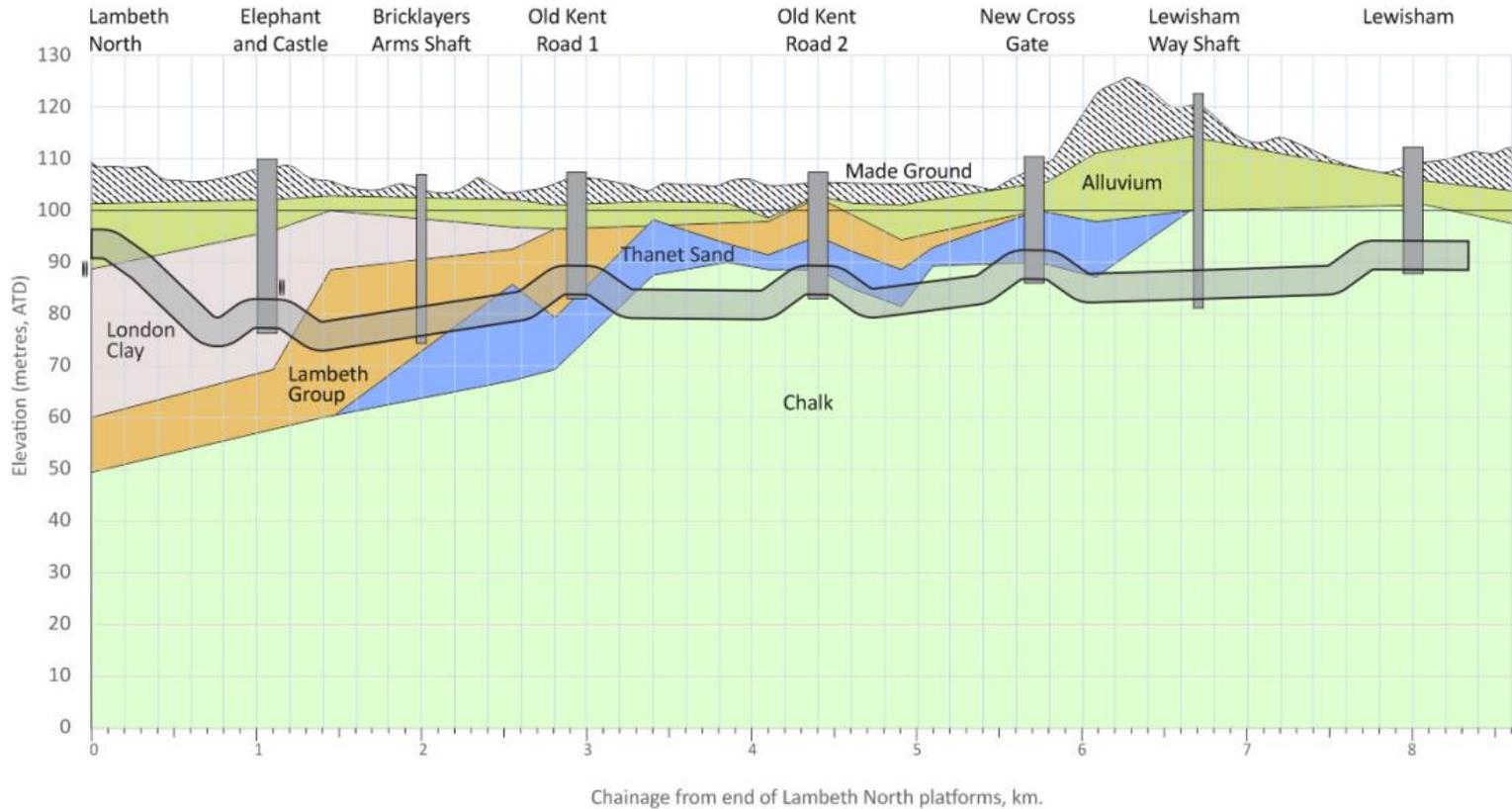
## Straight Alignment:

- Enable potential TBM launch
- Minimise wear on rolling stock
- Mitigate 'curve squeal'
- Allow scissor crossovers adjacent to the station on parallel, straight track

# Station Arrangement Options



# TfL Update | Site Considerations



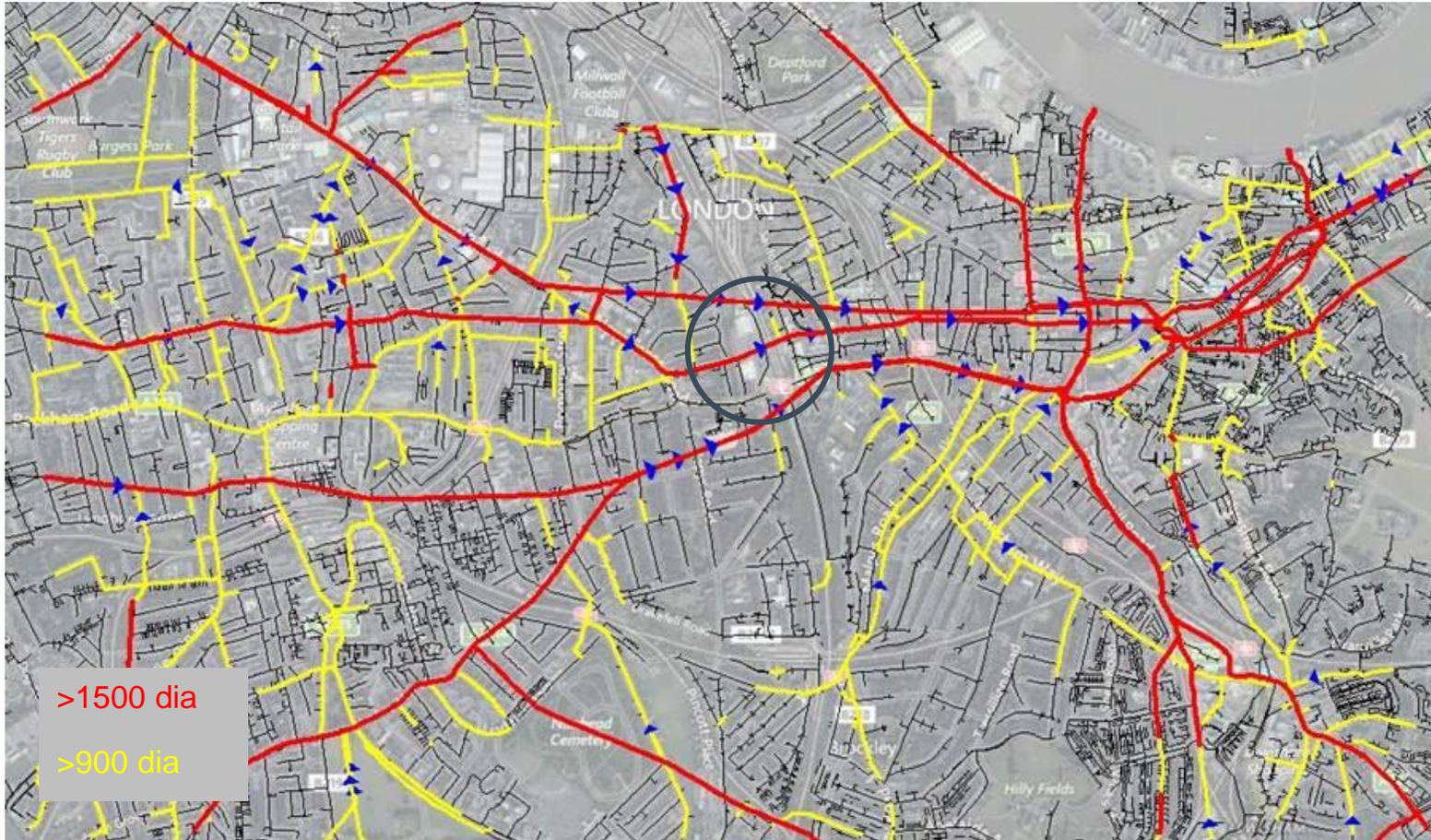
## Stratigraphy:

- Made Ground
- Alluvium
- Lambeth Group (mixed stiff clays and granular materials)
- Thanet Sands
- Chalk – **competent ground 20-30m below surface**

## Construction depths:

- Box 20m
- Mined / SCL 30m (Ground treatment required)

# TfL Update | Site Considerations - Sewers



# TfL Update | Site Considerations - Sewers



Low Level 1

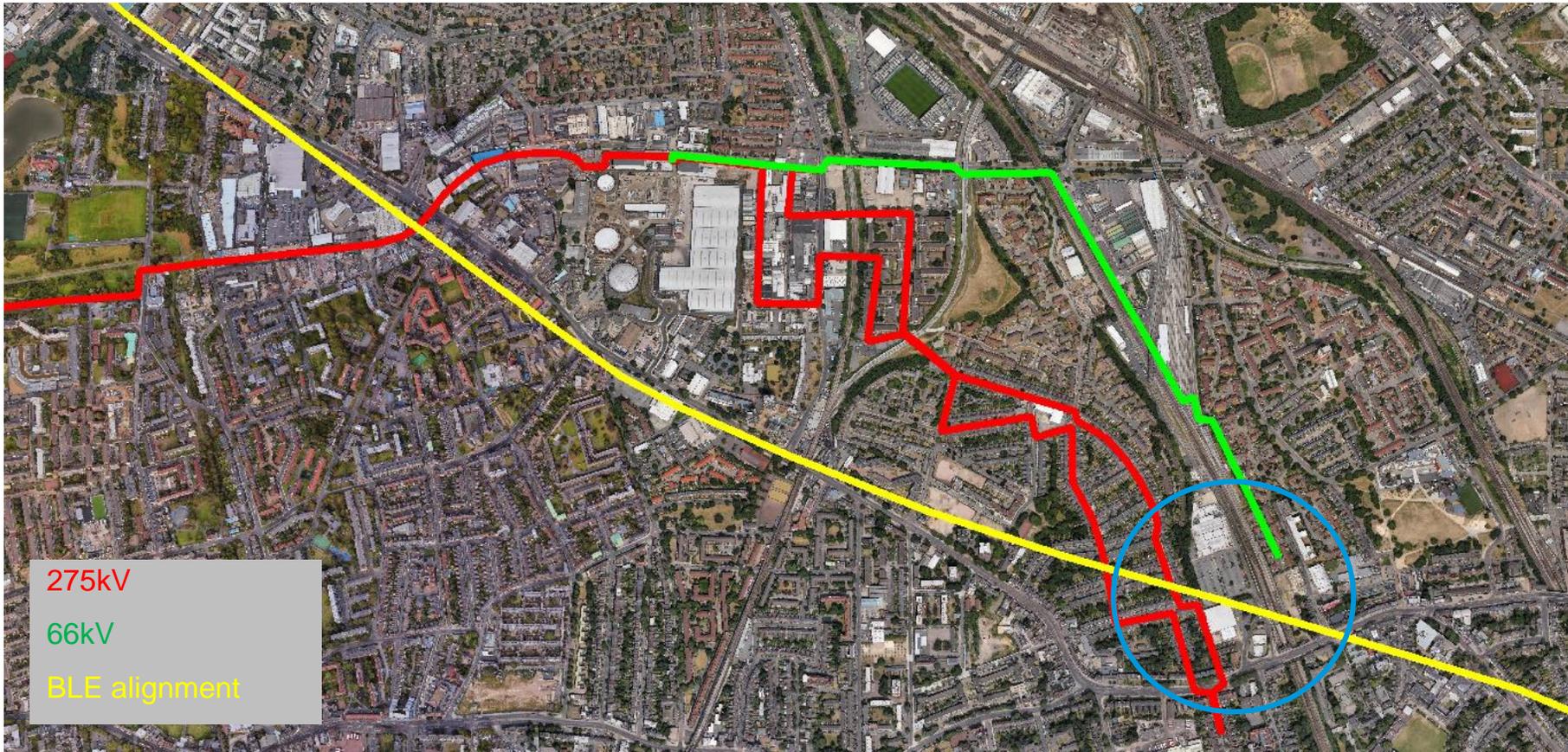
Low Level 2

## Buried Service:

- 2nr Thames Water sewers

	All levels given in mATD (OD + 100 m)	
	Low Level No. 1	Low Level No. 2
Ground level (west side)	105.0	108.0
Invert of trunk sewer	97.0	98.0
Extrados of trunk sewer, invert	96.5	97.5
Top of BLE tunnel: 1 diameter below sewer	90.5	91.5
Extrados of tunnel, invert	84.5	85.5
Approximate rail level	86.0	87.0
Top of chalk*	93.5	95.0

# TfL Update | Site Considerations - Power



# Sainsbury's and Mount Anvil Update