

# Riverside Energy Park

Construction Traffic Management Plan

Electrical Connection – London Borough of Bexley

In accordance with Requirement 13, Schedule 2, of the Riverside Energy Park Order (2020) as amended

Appendix B REP EC LBB Phasing Information



## TECHNICAL NOTE

**Job Name:** Riverside Energy Project - Electrical Connection  
**Job No:** 332510505  
**Note No:** 001  
**Date:** 26/07/2021  
**Prepared By:** Neil Bateman, Tim Hapgood, Adrian Neve  
**Subject:** Preliminary information of traffic management strategy within the London Borough of Bexley

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### 1. Introduction

- 1.1. On behalf of Cory Environmental Holdings Limited (trading as Cory (or 'the Undertaker')), Stantec UK is preparing the Construction Traffic Management Plans (CTMPs) necessary under Requirement 13 of the Riverside Energy Park Development Consent Order (the REP DCO). The REP DCO authorises both the integrated energy park and Electrical Connection, connecting REP and the electrical sub-station at Littlebrook, in Dartford. They are to be prepared substantially in accordance with the consented Outline CTMP which is a certified document of the DCO.
- 1.2. A series of three CTMPs are being prepared to subdivide the proposals: One for the construction works associated with the Main REP Site; one for construction of the Electrical Connection within Dartford Borough; and a third for construction of the Electrical Connection within the London Borough of Bexley (LBB).
- 1.3. This note is relevant to the third CTMP identified above, presenting the proposed strategy for the Temporary Traffic Management to deliver the Electrical Connection between the Main REP Site, at the northern end of Norman Road, and the LBB administrative boundary with Dartford Borough Council. Compass, the contractor appointed to develop the preliminary Traffic Management proposals on behalf of the Undertaker, has considered a phasing approach to the construction of the Electrical Connection and that has been reflected in this note.
- 1.4. The information provide in the Phase description tables below is to be read in conjunction with the outline Temporary Traffic Management Plans (the TM Plans) and Traffic Management Design document that have been prepared by Compass to illustrate the suggested approach to traffic management at the works areas along the Electrical Connection route.
- 1.5. The TM Plans are not proposed as an initial submission towards a formal works permitting process (London Permit Scheme / StreetManager) but are provided to present the method of management currently proposed. The preliminary TM Plans have been provided separately to this note. (Compass TM plans 28237-D1-Norman Rd to 28237-D51-Thames Rd)

## TECHNICAL NOTE

- 1.6. Feedback is sought from LBB and TfL on the strategy presented within the preliminary TM Plans and on the information set out within the Phase description tables below. That feedback will inform the development of the formal draft CTMP, which is to be submitted to LBB in due course for formal review and acceptance.
- 1.7. Subsequent to the acceptance of the final CTMP for the associated works, submissions for the street works permits will be made in due course to LBB as Local Highway Authority and Network Manager. These will be prepared by the works contractor or its sub-contractor and presented through the permitting process relevant at that time.

## 2. Phasing information

The Phase description tables below give an indication of:

- a. The location of the works;
- b. The section of the works proposed;
- c. The anticipated working hours;
- d. The indicative duration of those works;
- e. The associated Compass TM Plan;
- f. The TM mechanism and controls;
- g. Interface with bus services;
- h. Pedestrian access; and
- i. Ancillary comments.

# TECHNICAL NOTE

## Phase 1

### Main Site Access and Norman Road

**Chainage:** 0 to 146

**Working Hours:** Norman Road - weekdays 8am – 6pm  
 Crossing of culvert - weekdays out of hours working 8pm – 6am

**Indicative duration of works:** 17 days

**Indicative start date:** May 2022

**Indicative end date:** June 2022

**Route Alignment Sheet No:** 1

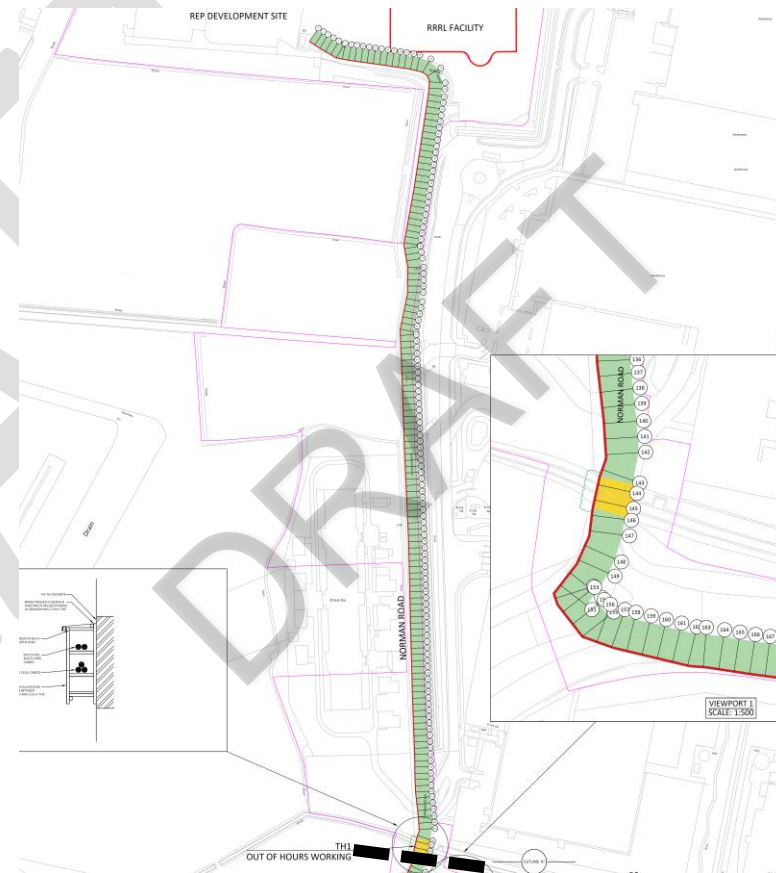
**TM Plans:** 28237-D1-Norman Rd to 28237-D2-Norman Rd

**Working arrangements:** Traffic signal controlled single alternate lane working

**Public transport:** No buses

**Pedestrian Access:** Access maintained on footway

**Comments:**  
 TM Plans for northern section of Norman Road currently not available  
 Advanced in circa 200m sections.



## TECHNICAL NOTE

### Norman Road junction with Picardy Manorway

**Chainage:** 146 to 153

**Working Hours:** Norman Road - weekdays 8am – 6pm  
 Crossing Norman Way weekdays out of hours working 8pm – 6am

**Indicative duration of works:** 1-3 days

**Indicative start date:** June 2022

**Indicative end date:** June 2022

**Route Alignment Sheet No:** 1

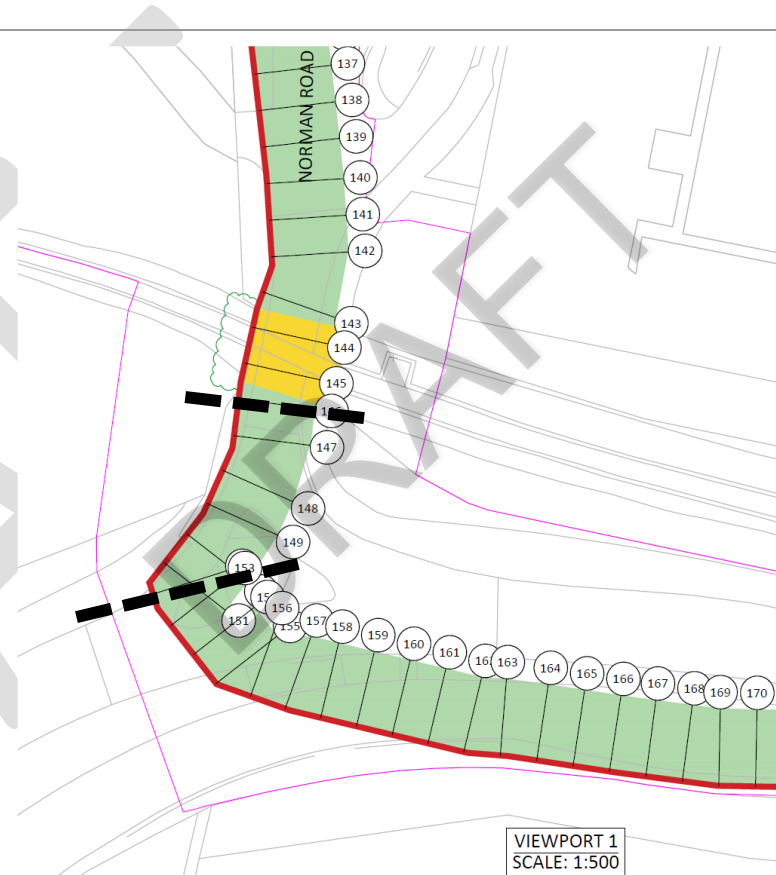
**TM Plans:** 28237-D3-Norman Rd

**Working arrangements:** Lane closures, temporary traffic signals at junction with on Norman Road

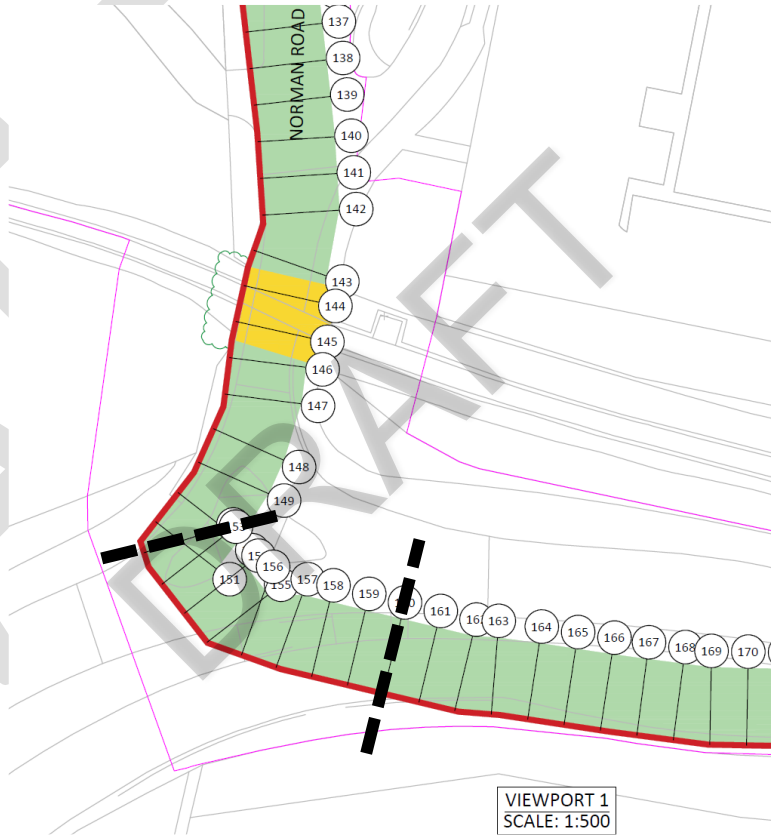
**Public transport:** No buses;

**Pedestrian Access:** Access maintained on footway

**Comments:** Works would be carried out in consultation with Asda distribution depot to identify best working arrangements and road closure timing. Works could potentially involve overnight working and temporary road closure of Norman Road access.

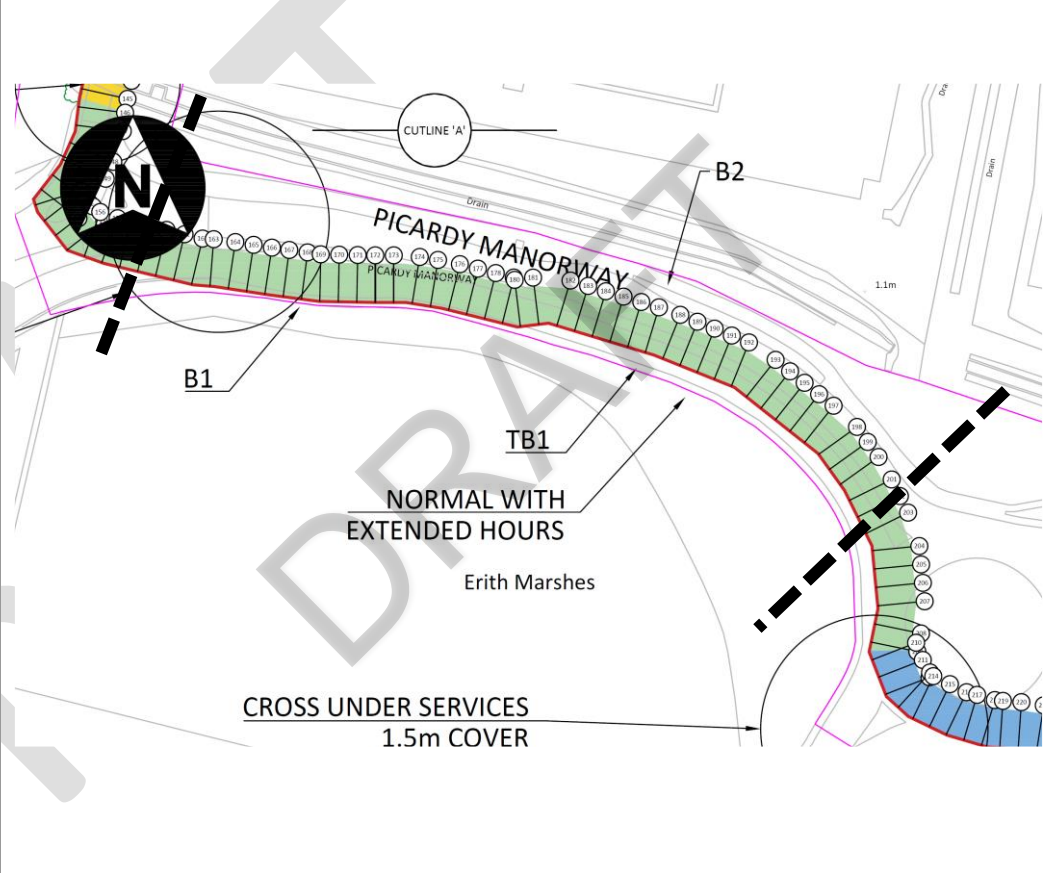


## TECHNICAL NOTE

<b>Crossing Picardy Manorway</b>	
<b>Chainage:</b> 153 to 160	
<b>Working Hours:</b> Weekend working	
<b>Indicative duration of works:</b> 3 days	
<b>Indicative start date:</b> June 2022	
<b>Indicative end date:</b> June 2022	
<b>Route Alignment Sheet No:</b> 1	
<b>TM Plans:</b> 28237-D4-Picardy Manorway to 28237-D5-Picardy Manorway	
<b>Working arrangements:</b> Lane closures	
<b>Public transport:</b> Picardy Manorway (180, 401, 601)	
<b>Pedestrian Access:</b> Pedestrian access maintained throughout	
<b>Comments:</b> Closure of Picardy Manorway is not proposed. Picardy Manorway would be crossed in stages.	

VIEWPORT 1  
SCALE: 1:500

## TECHNICAL NOTE

<b>Picardy Manorway A2016</b>	
<b>Chainage:</b> 160 to 202	 <p>The diagram shows a plan view of Picardy Manorway. A section of the road is highlighted in green, indicating the 'NORMAL WITH EXTENDED HOURS' area. A dashed line indicates a 'CROSS UNDER SERVICES' with a '1.5m COVER'. A north arrow is present, and a 'DRAIN' is shown. Labels B1, B2, and TB1 are used to identify specific points or features. A '1.1m' dimension is also shown. The area is identified as 'Erith Marshes'.</p>
<b>Working Hours:</b> Weekdays extended hours 7am – 8pm	
<b>Indicative duration of works:</b> 7.5 days	
<b>Indicative start date:</b> June 2022	
<b>Indicative end date:</b> June 2022	
<b>Route Alignment Sheet No:</b> 2	
<b>TM Plans:</b> 28237-D4-Picardy Manorway to 28237-D6-Picardy Manorway	
<b>Working arrangements:</b> Lane closure, single lane working	
<b>Public transport:</b> Maximum of 23 buses per hour during working hours: 180, 601, 401	
<b>Pedestrian Access:</b> Access maintained on footway	
<b>Comments:</b> Short term temporary bus stop required.	

# TECHNICAL NOTE

## Phase 2

### Picardy Manorway and Bronze Age Way Roundabout - Picardy Manorway junction crossing

**Chainage:** 201 to 223

**Working Hours:** Weekend working 8am – 6pm

**Indicative duration of works:** 8 days (4 Weekends)

**Indicative start date:** either June 2022 or December 2022

**Indicative end date:** either June 2022 or December 2022

**Route Alignment Sheet No:** 2

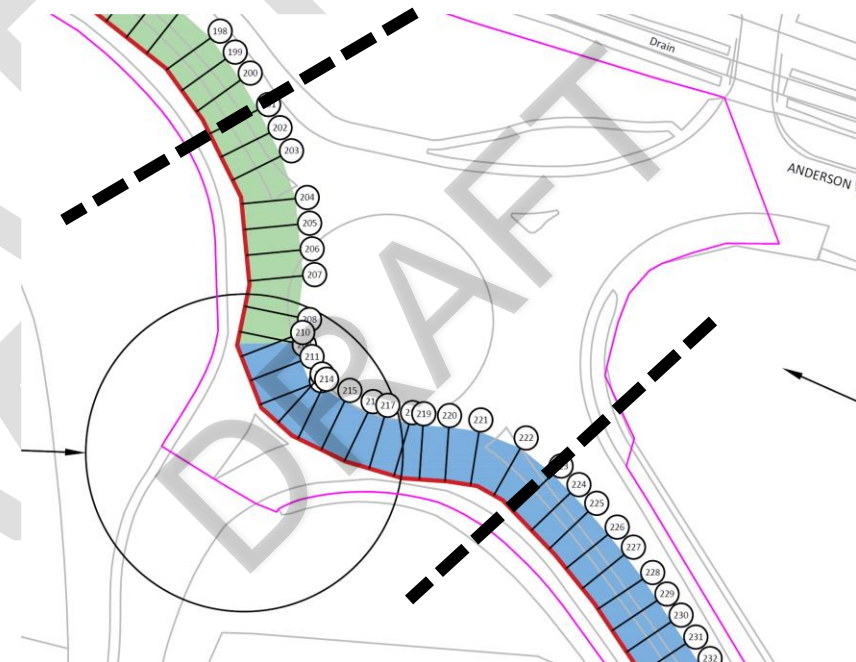
**TM Plans:** 28237-D5-Picardy Manorway to 28237-D7-SECTION3-Bronze Age Way

**Working arrangements:** Directional closures either side of splitter island

**Public transport:** Maximum of 23 buses per hour during working hours, 180, 401. Services 401 diverted onto Bronze Age Way during closure of Picardy Manorway northbound. School service 601 unaffected by weekend working.

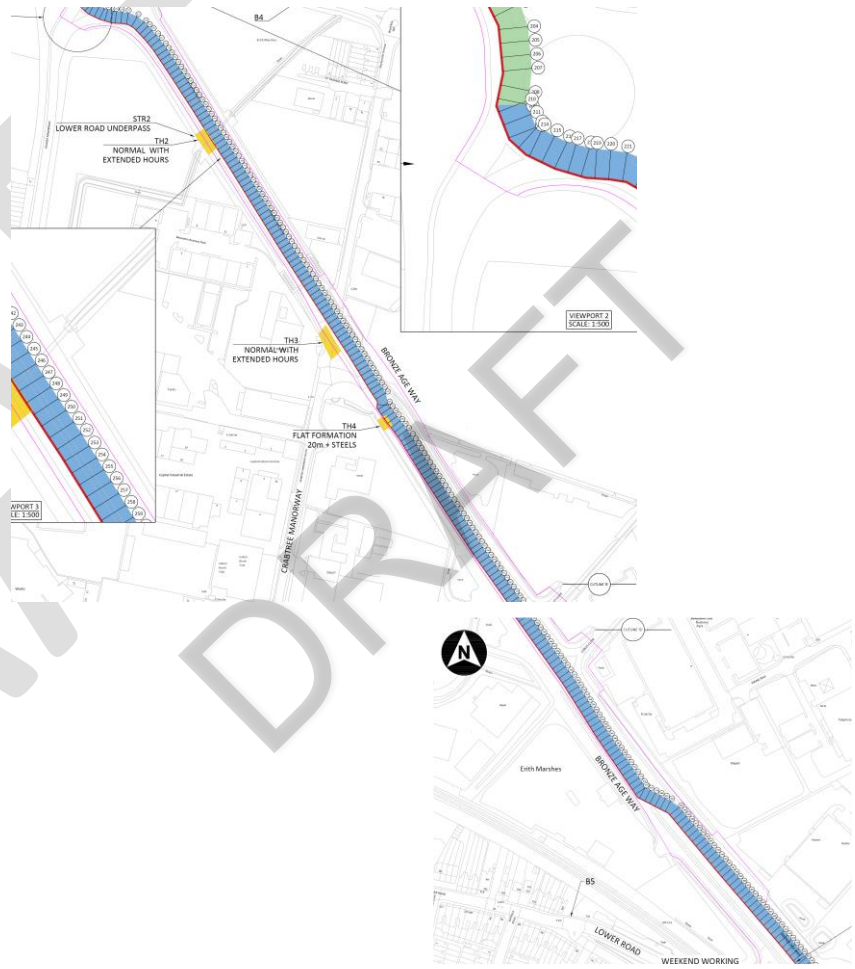
**Pedestrian Access:** access maintained on footway

**Comments:** Directional closure over a series of weekends to help minimise works duration and maintain safe working. TM would be removed during the week. **Option explored:** Potential to use alternate working arrangements i.e. keeping lane in both directions open. This would increase works duration and increase risk to traffic and workforce.





## TECHNICAL NOTE

<b>Bronze Age Way to Lower Road Junction</b>	
<b>Chainage:</b> 223 to 416	
<b>Working Hours:</b> Weekdays extended hours 7am – 8pm	
<b>Indicative duration of works:</b> 35.5 days	
<b>Indicative start date:</b> December 2022	
<b>Indicative end date:</b> January 2023	
<b>Route Alignment Sheet No:</b> 2-3	
<b>TM Plans:</b> 28237-D5-Picardy Manorway to 28237-D9-SECTION2-Bronze Age Way	
<b>Working arrangements:</b> Lane closure, single lane working	
<b>Public transport:</b> No bus services on Bronze Age Way.	
<b>Pedestrian Access:</b> No footway interaction	
<p><b>Comments:</b> Proposals indicate the cable route will go under the Lower Road Bridge using the middle lane, thereby avoiding disruption of traffic and bus services on Lower Road. <b>Option explored:</b> Route follows slip roads and over bridge. That option interfaced with bus services on Lower Road and would require temporary traffic signals to manage the crossing of Lower Road.</p>	

## TECHNICAL NOTE

### Bronze Age Way to Fish Roundabout (via Erith Station Approach)

**Chainage:** 416 to 670

**Working Hours:** weekdays extended hours 7am – 8pm

**Indicative duration of works:** 39 days

**Indicative start date:** January 2023

**Indicative end date:** April 2023

**Route Alignment Sheet No:** 7-11

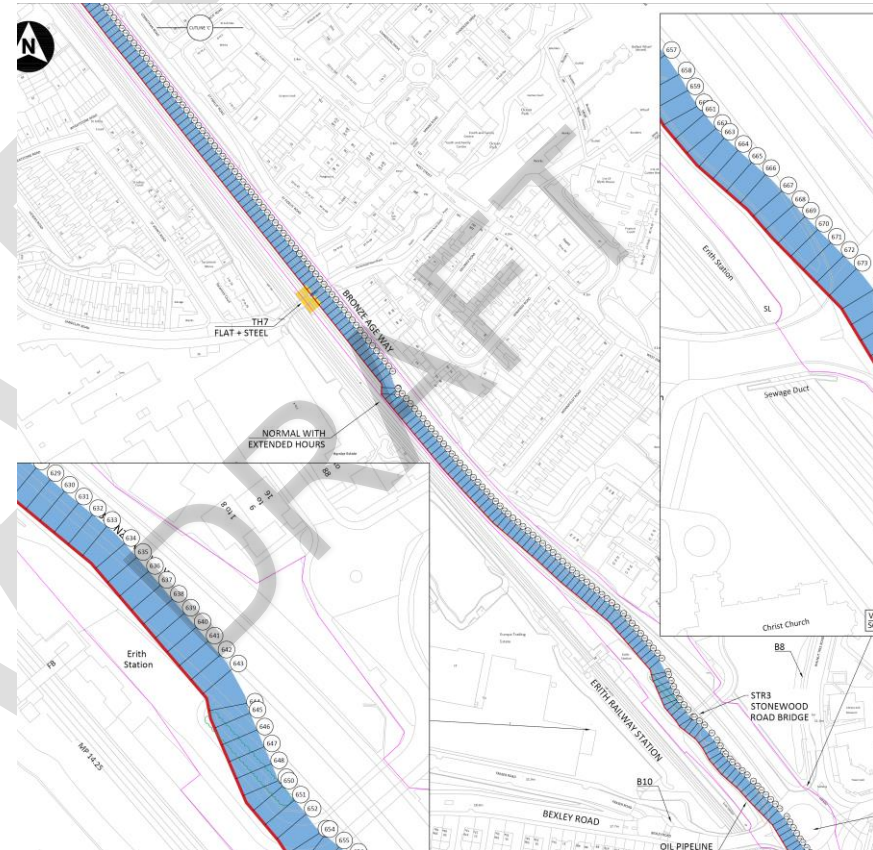
**TM Plans:** 28237-D9-OVERVIEW-Bronze Age Way to 28237-D11-SECTION2-Queens Rd

**Working arrangements:** Lane closure, single lane working

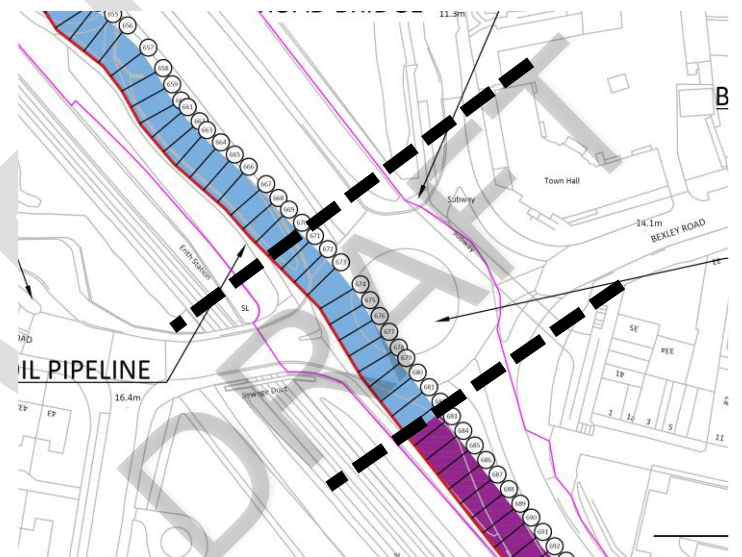
**Public transport:** No bus services on Bronze Age Way.

**Pedestrian Access:** No footways on Bronze Age Way. Station Approach closed during works – pedestrian access maintained to station. Footpath from Bexley Road to Station Approach diverted via Walnut Tree Road.

**Comments:** Pedestrian diversions will be minimised where practicable. Use of Station Approach reduces impacts on Bexley Road roundabout.  
**Option explored:** Maintaining route along Bronze Age Way. This would impact on the operation of the Bexley Road roundabout.



## TECHNICAL NOTE

<b>Fish Roundabout</b>	
<b>Chainage:</b> 670 to 682	
<b>Working Hours:</b> weekend working 8am – 6pm	
<b>Indicative duration of works:</b> 8 days (4 Weekends)	
<b>Indicative start date:</b> April 2023	
<b>Indicative end date:</b> May 2023	
<b>Route Alignment Sheet No:</b> 4	
<b>TM Plans:</b> 28237-D10-OVERVIEW-Queens Rd to 28237-D11-SECTION2-Queens Rd	
<b>Working arrangements:</b> Closure of Bexley Road, diversion via Colyers Lane	
<b>Public transport:</b> Max of 23.5 buses per hour during working hours, services 99, 229, B12. Closure of Bexley Road, diversion via Colyers Lane	
<b>Pedestrian Access:</b> access maintained on footway	
<p><b>Comments:</b> Proposed road closure over a series of weekends to help minimise works duration and maintain safe working. TM would be removed during the week. Service B12 curtailed. 669 and 602 school services only. 99 and 229 on diversion. <b>Option Explored:</b> Potential to use directional closure would significantly increase works duration and reduce safety of public and workforce. Horizontal Direction Drilling considered but not feasible due to other services. Route realignment through junction increases impact on junction.</p>	

# TECHNICAL NOTE

## Phase 3

### Queen's Road to James Watt Way

**Chainage:** 678 to 729

**Working Hours:** Weekdays extended hours 7am – 8pm

**Indicative duration of works:** 9 days

**Indicative start date:** July 2022

**Indicative end date:** August 2022

**Route Alignment Sheet No:** 4-5

**TM Plans:** 28237-D10-OVERVIEW-Queens Rd to 28237-D11-SECTION1-Queens Rd

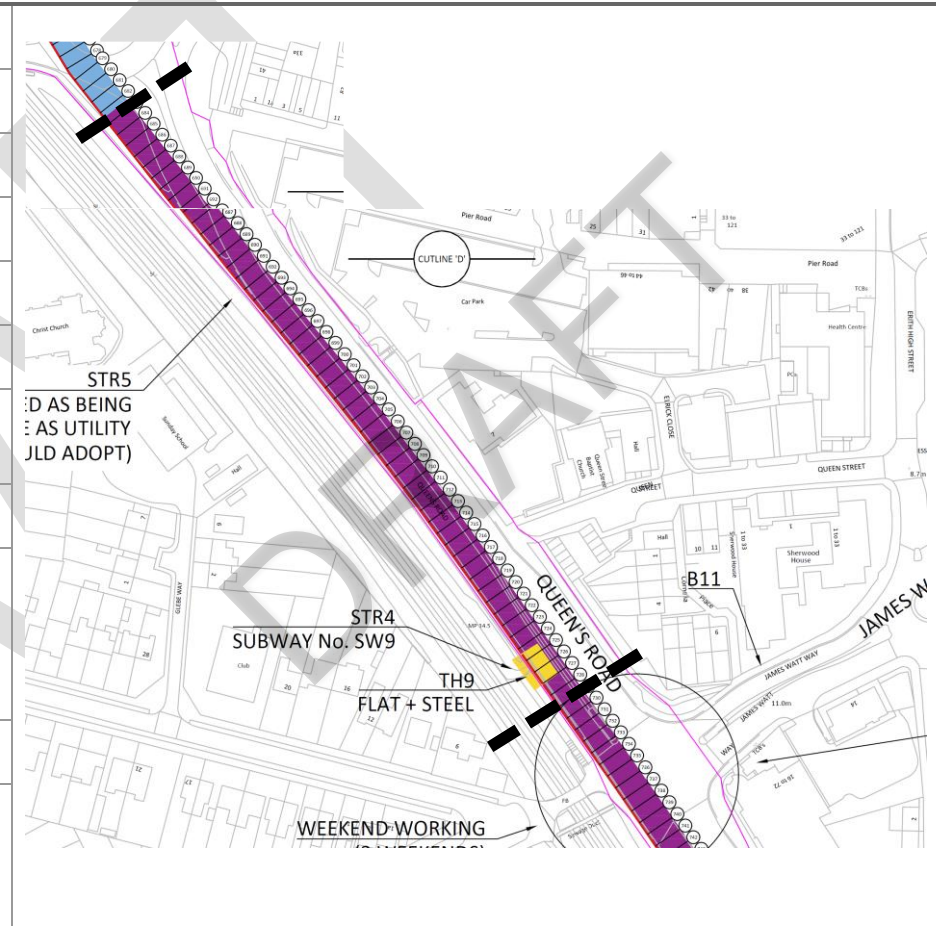
**Working arrangements:** Lane closure, single lane working

**Public transport:** Maximum of 4 buses per hour during working hours, Service 428 only service affected due to cable alignment. Due to closure of Bexley Road, diversion via Colyers Lane and along Queen's Road.

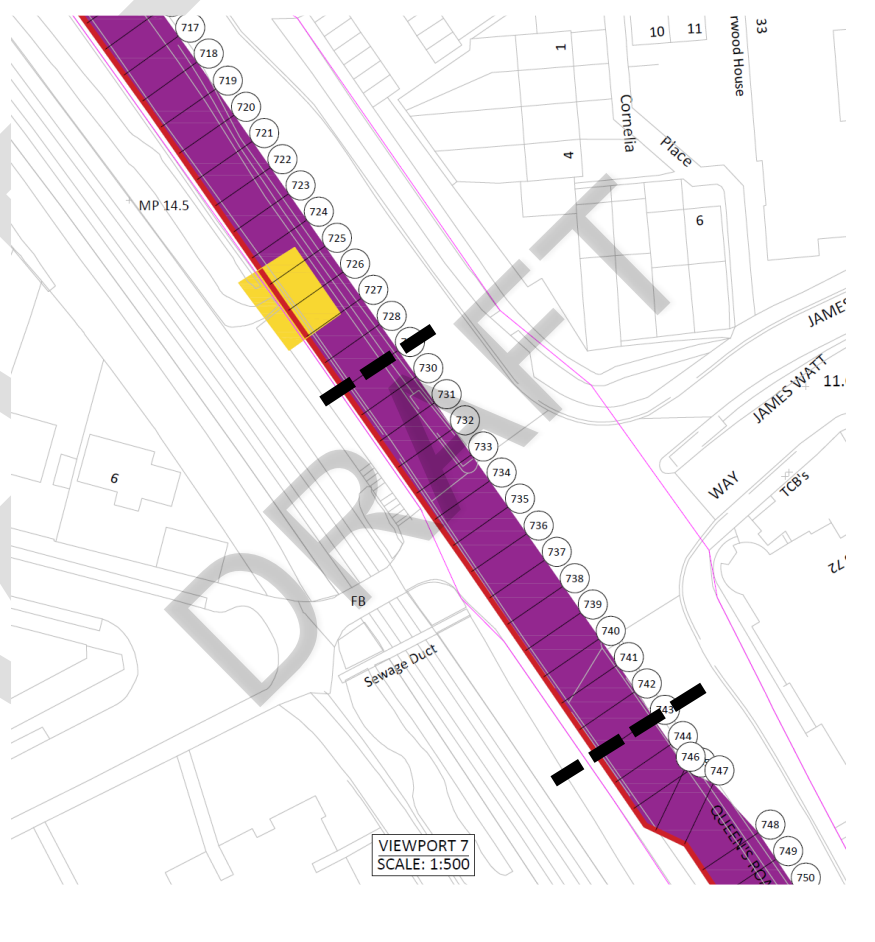
South of James Watt Way, service 428 runs on Queen's Road

**Pedestrian Access:** Access maintained on footway

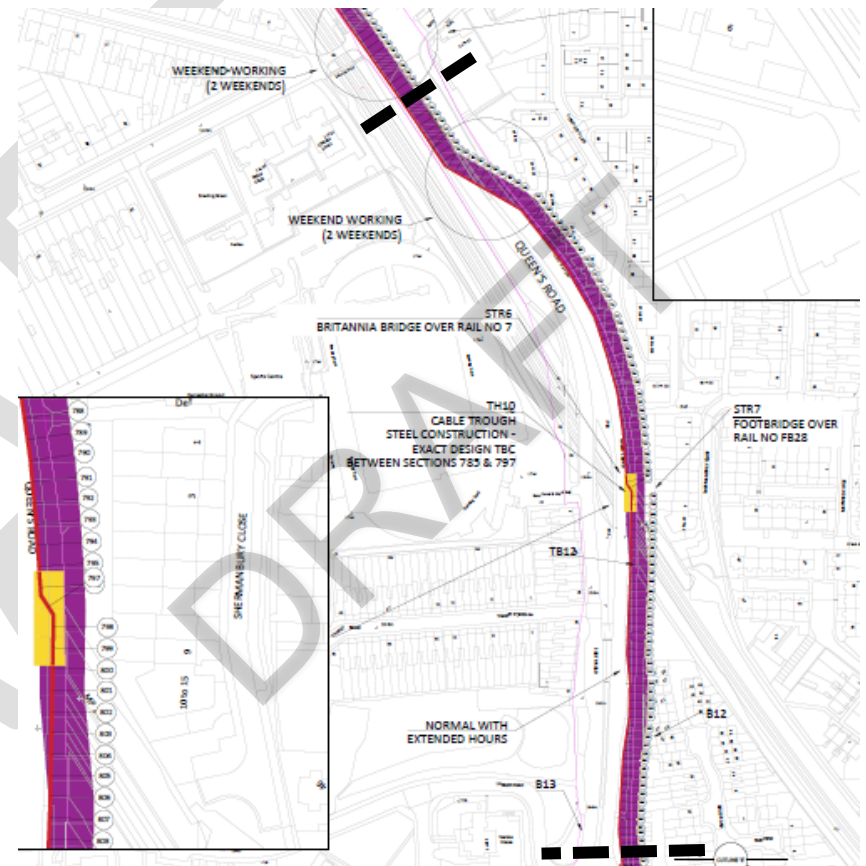
**Comments:** Cable route minimises direct impact on bus services from lane closure as public transport runs southbound between Fish roundabout and James Watt Way




## TECHNICAL NOTE

<b>Queen's Road junction with James Watt Way</b>	
<b>Chainage:</b> 729 to 743	
<b>Working Hours:</b> weekend working 8am – 6pm	
<b>Indicative duration of works:</b> 2 weekends (4 days)	
<b>Indicative start date:</b> August 2022	
<b>Indicative end date:</b> August 2022	
<b>Route Alignment Sheet No:</b> 5	
<b>TM Plans:</b> 28237-D10-OVERVIEW-Queens Rd to 28237-D13-SECTION1-Queens Rd	
<b>Working arrangements:</b> Lane closure, single lane working	
<b>Public transport:</b> Maximum of 4 buses per hour during working hours, Service 428 only service affected due to cable alignment. Due to closure of Bexley Road, diversion via Colyers Lane and along Queen's Road. South of James Watt Way, service 428 runs on Queen's Road	
<b>Pedestrian Access:</b> access maintained on footway	
<b>Comments:</b> Cable route alignment minimise impact on public transport services as only service 428 is directly in lane affected by works, and is the only service running south of this junction	


## TECHNICAL NOTE

<b>Queen's Road south of James Watt Way</b>	
<b>Chainage:</b> 678 to 842	
<b>Working Hours:</b> weekdays extended hours 7am – 8pm Start of rail bridge on Queen's Road - weekend working 8am – 6pm	
<b>Indicative duration of works:</b> 14.5 days + 2 weekends (4 days)	
<b>Indicative start date:</b> August 2022	
<b>Indicative end date:</b> September 2022	
<b>Route Alignment Sheet No:</b> 4-6	
<b>TM Plans:</b> 28237-D10-SECTION1-Queens Rd to 28237-D17-SECTION2-South Rd	
<b>Working arrangements:</b> Lane closure, single lane working	
<b>Public transport:</b> Maximum of 4 buses per hour during working hours, Service 428, bus stops kept open during works to minimise passenger disruption	
<b>Pedestrian Access:</b> access maintained on footway	
<b>Comments:</b>	

## TECHNICAL NOTE

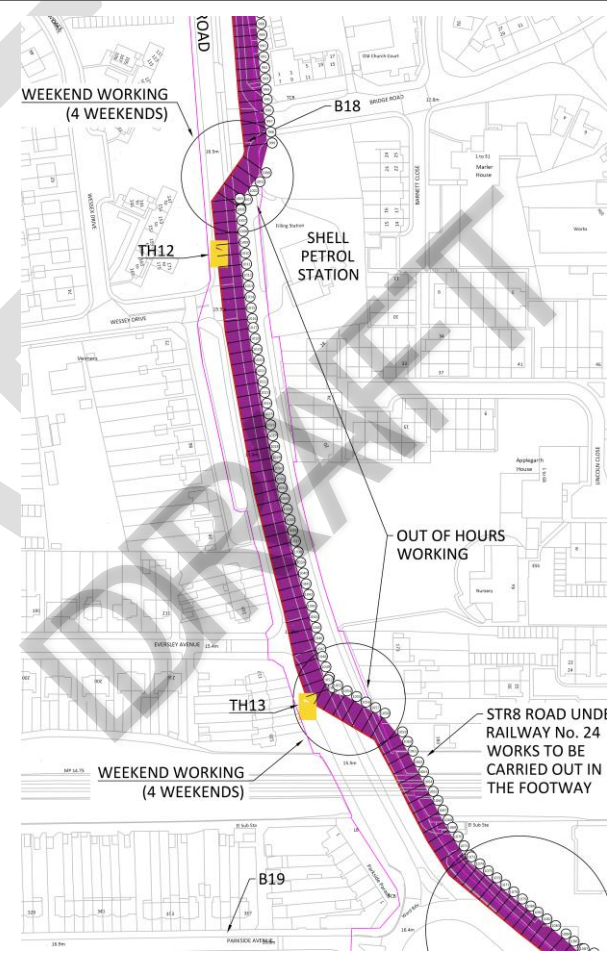
Queen's Road and Northend Road Roundabout	
<b>Chainage:</b> 842 to 854	
<b>Working Hours:</b> Weekend Working 8am-6pm	
<b>Indicative duration of works:</b> 2 Weekends (4 Days)	
<b>Indicative start date:</b> August 2022	
<b>Indicative end date:</b> September 2022	
<b>Route Alignment Sheet No:</b> 6	
<b>TM Plans:</b> 28237-D16 to 28237-D17	
<b>Working arrangements:</b> Lane closure, alternate way working under temporary traffic signal control, closure of gyratory movements. Access to Tesco maintained throughout works.	
<b>Public transport:</b> Maximum of 4 buses per hour during working hours, Service 428, bus stops kept open during works to minimise passenger disruption	
<b>Pedestrian Access:</b> Access maintained on footway	
<b>Comments:</b> Westbound diversion via Fish roundabout; Eastbound movements diverted via Perry Street roundabout. Service 428 not diverted. <b>Option explored:</b> Boundary Street side road closure required diversion via Peareswood Road	

## TECHNICAL NOTE

<b>Northend Road to Bridge Road</b>	
<b>Chainage:</b> 851 to 990	
<b>Working Hours:</b> Weekdays extended hours 7am – 8pm	
<b>Indicative duration of works:</b> 24 days	
<b>Indicative start date:</b> September 2022	
<b>Indicative end date:</b> October 2022	
<b>Route Alignment Sheet No:</b> 6-7	
<b>TM Plans:</b> 28237-D18 to 28237-D23	
<b>Working arrangements:</b> Lane closure, single lane working	
<b>Public transport:</b> Maximum of 19 buses per hour during working hours, Service 428, 89, N89. Closure of Bridge Road requires diversion of services onto Thames Road and Howbury Lane	
<b>Pedestrian Access:</b> Access maintained on footway	
<p><b>Comments:</b> Temporary bus stops required where affected. Pearsewood Road closed under weekend working. <b>Option explored:</b> relocate trench to off-side lane to reduce side road interfaces and reduce bus service impacts. Would require closure of Colyers Lane egress (diverted via Boundary Road) and closure of Bridge Road egress (diverted via Perry Street roundabout).</p>	

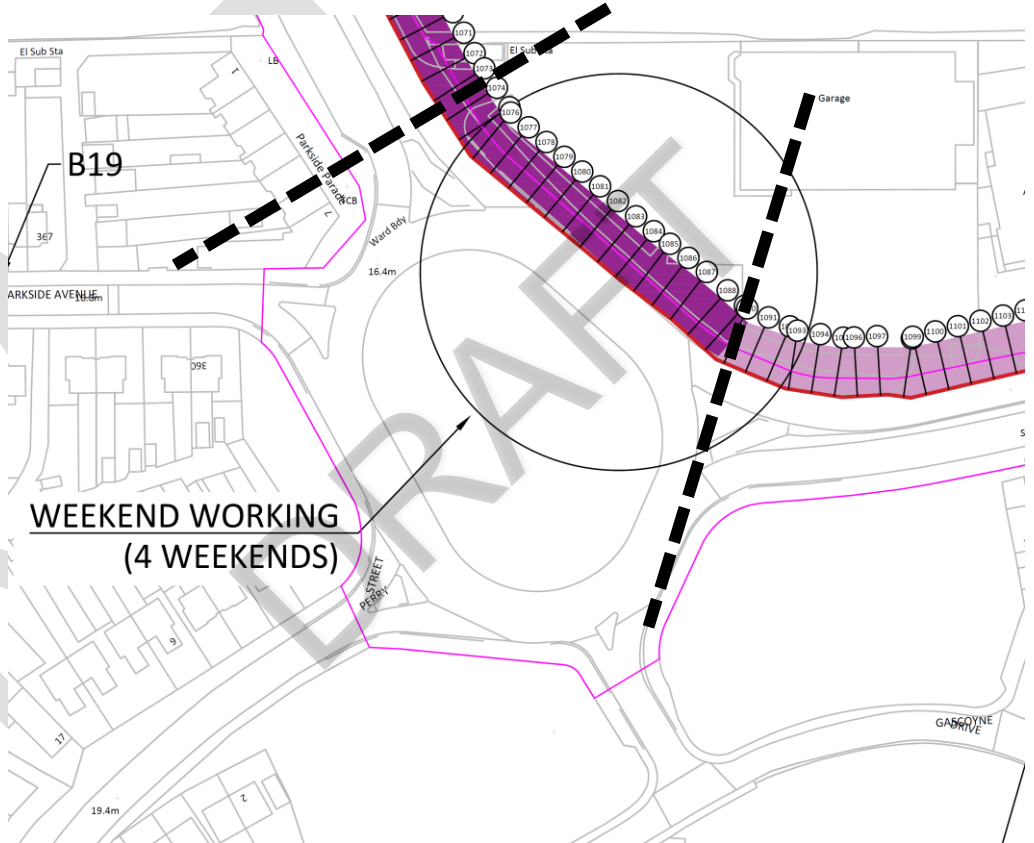


# TECHNICAL NOTE

Northend Road south of Bridge Road	
<b>Chainage:</b> 990 to 1073	 <p>The map shows the proposed trench alignment along Northend Road, highlighted in purple. Key features include:         <ul style="list-style-type: none"> <li><b>Work Zones:</b> 'WEEKEND WORKING (4 WEEKENDS)' at the top and bottom of the section, and 'OUT OF HOURS WORKING' in the middle section.</li> <li><b>Landmarks:</b> Shell Petrol Station, B18, B19, and STR8 Road under Railway No. 24.</li> <li><b>Other Labels:</b> TH12, TH13, and 'LOAD'.</li> <li><b>Notes:</b> 'STR8 ROAD UNDER RAILWAY No. 24 WORKS TO BE CARRIED OUT IN THE FOOTWAY'.</li> </ul> </p>
<b>Working Hours:</b> Crossing Bridge Road: Weekend working Crossing Northend Road x 2: Weekend working – out of hours Southbound along Northend Road: Normal working hours	
<b>Indicative duration of works:</b> Crossing Bridge Road: single weekend Crossing Northend Road x 2: 8 days (4 weekends) Southbound along Northend Road: 6 days	
<b>Indicative start date:</b> October 2022	
<b>Indicative end date:</b> November 2022	
<b>Route Alignment Sheet No:</b> 7	
<b>TM Plans:</b> 28237-D18 to 28237-D23	
<b>Working arrangements:</b> Lane closure, single lane working	
<b>Public transport:</b> No buses south of Bridge Road	
<b>Pedestrian Access:</b> access maintained on footway	
<b>Comments:</b> Route forced west to avoid filling station services. Trench to be laid in offside lane to avoid closure of Wessex Drive and Eversley Avenue side roads. <b>Option Explored:</b> Maintain trench in southbound offside lane.	

# TECHNICAL NOTE

## Phase 4

Northend Road and Thames Road Roundabout	
<b>Chainage:</b> 1073 to 1090	
<b>Working Hours:</b> Weekend working 8am – 6pm	
<b>Indicative duration of works:</b> 4 weekends (8 days)	
<b>Indicative start date:</b> November 2022	
<b>Indicative end date:</b> December 2022	
<b>Route Alignment Sheet No:</b> 7	
<b>TM Plans:</b> 28237-D20 to 28237-D23	
<b>Working arrangements:</b> Lane closure, single lane working	
<b>Public transport:</b> Maximum of 5 buses per hour during working hours, service 99	
<b>Pedestrian Access:</b> Access maintained on footway	
<b>Comments:</b> Westbound buses unaffected.	

## TECHNICAL NOTE

### Thames Road west of Howbury Lane

**Chainage:** 1090 to 1140

**Working Hours:** Weekdays 8am – 6pm

**Indicative duration of works:** 7 days

**Indicative start date:** December 2022

**Indicative end date:** December 2022

**Route Alignment Sheet No:** 7

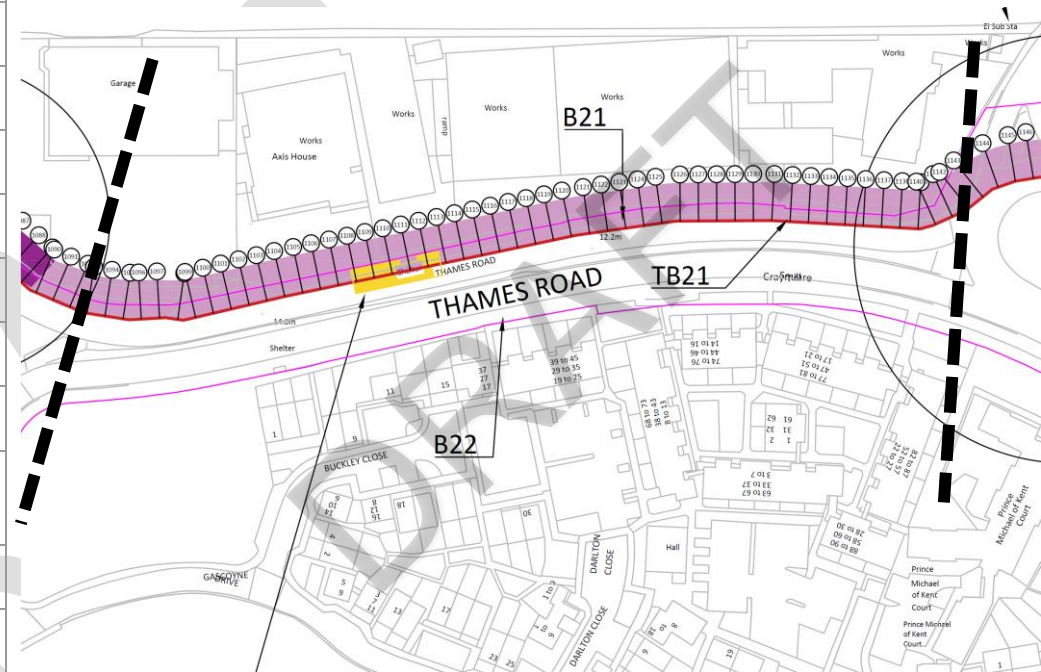
**TM Plans:** 28237-D23 to 28237-D24

**Working arrangements:** Lane closure, single lane working

**Public transport:** Maximum of 5 buses per hour during working hours, service 99. Bus stop temporary closure.

**Pedestrian Access:** Access maintained on footway

**Comments:** Westbound buses unaffected. Access to businesses maintained.



# TECHNICAL NOTE

## Thames Road and Howbury Lane Roundabout

**Chainage:** 1140 to 1161

**Working Hours:** Weekend working 8am – 6pm

**Indicative duration of works:** 4 weekends (8 days)

**Indicative start date:** January 2023

**Indicative end date:** February 2023

**Route Alignment Sheet No:** 7

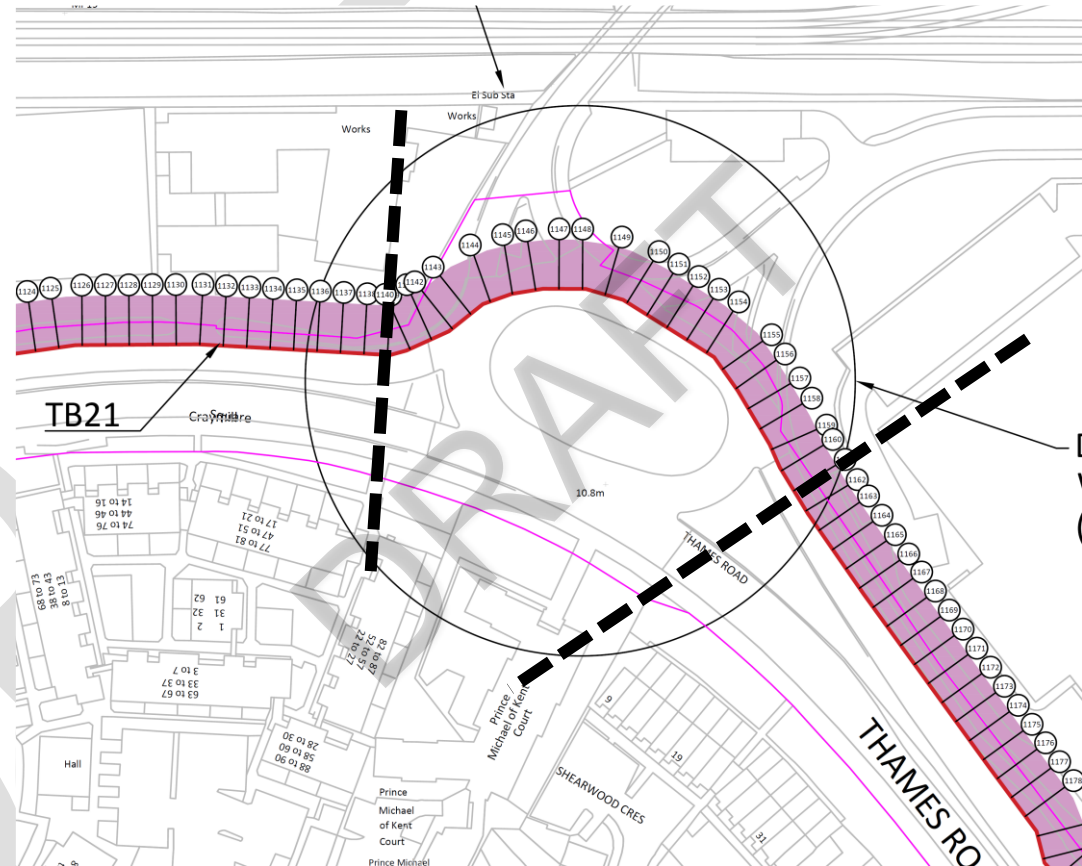
**TM Plans:** 28237-D24 to 28237-D26

**Working arrangements:** Lane closure, single lane working, closure of some movements into Thomas Road and Howbury Lane

**Public transport:** Maximum of 13 buses per hour during working hours, service 99 and 428. Need for diversion along Northend Road/ Bridge Road when Howbury Lane access closed

**Pedestrian Access:** Access maintained on footway

**Comments:** Proposed road closure over a series of weekends to help minimise works duration and maintain safe working. TM would be removed during the week.



## TECHNICAL NOTE

### Thames Road south of Howbury Lane Roundabout

**Chainage:** 1161 to 1350

**Working Hours:** Southbound carriageway: Weekdays 8am – 6pm  
 Kennet Road roundabout: Weekend working 8am – 6pm  
 Crossing Thames Road: Out of hours working 8pm – 6am

**Indicative duration of works:** 29 days

**Indicative start date:** January 2023

**Indicative end date:** March 2023

**Route Alignment Sheet No:** 8

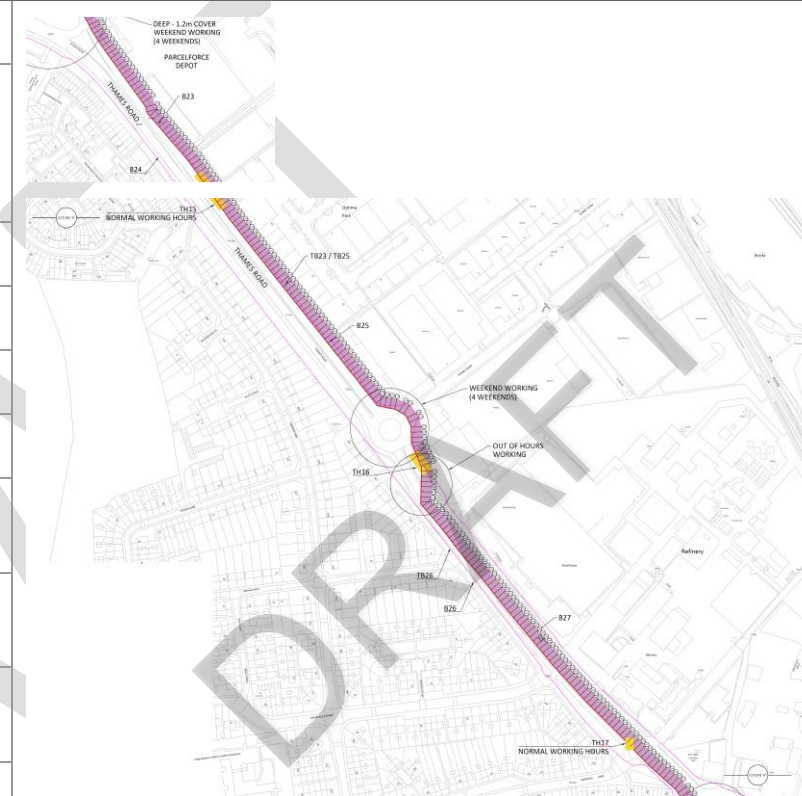
**TM Plans:** 28237-D27-Thames Rd to 28237-D30-SECTION2-Thames Rd

**Working arrangements:** Lane closure, single lane working. Partial road closure crossing Kennet Road roundabout.

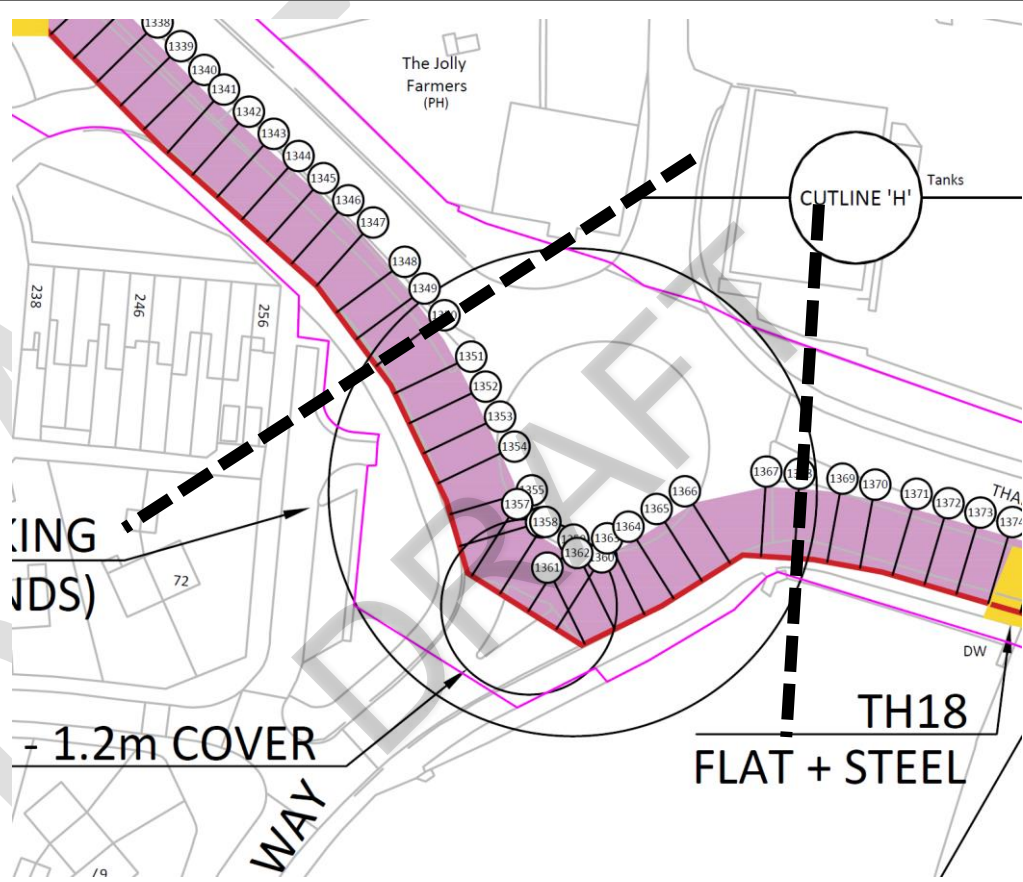
**Public transport:** Maximum of 8.5 buses per hour during working hours, service 428. Bus stop temporary closure

**Pedestrian Access:** Access maintained on footway


**Comments:** Proposed road closure over a series of weekends to help minimise works duration and maintain safe working. TM would be removed during the week. Access maintained to businesses



## TECHNICAL NOTE

Thames Road and Crayford Way Roundabout	
<b>Chainage:</b> 1350 to 1368	
<b>Working Hours:</b> Weekend working 8am – 6pm	
<b>Indicative duration of works:</b> 4 weekends (8 days)	
<b>Indicative start date:</b> March 2023	
<b>Indicative end date:</b> March 2023	
<b>Route Alignment Sheet No:</b> 8-9	
<b>TM Plans:</b> 28237-D30	
<b>Working arrangements:</b> Lane closure, single lane working	
<b>Public transport:</b> Maximum of 8.5 buses per hour during working hours, service 428. Closure of Crayford Way requires bus diversion, likely to use Perry Street as the alternative to Thames Road, and connect back to normal route at Howbury Lane.	
<b>Pedestrian Access:</b> Access maintained on footway	
<b>Comments:</b> Proposed road closure over a series of weekends to help minimise works duration and maintain safe working. TM would be removed during the week.	

# TECHNICAL NOTE

<b>Thames Road east of Crayford Way Roundabout</b>	
<b>Chainage:</b> 1368 to 1465	
<b>Working Hours:</b> Thames Road: weekdays 8am – 6pm Through Thames Road rail bridge: weekend working (6 weekends)	
<b>Indicative duration of works:</b> 15 days	
<b>Indicative start date:</b> May 2022	
<b>Indicative end date:</b> June 2022	
<b>Route Alignment Sheet No:</b>	
<b>TM Plans:</b> 28237-D31 to 28237-D34, 28237-D41, 28237-D51	
<b>Working arrangements:</b> Lane closure, alternate single lane working with traffic lights	
<b>Public transport:</b> No buses	
<b>Pedestrian Access:</b> Access maintained on footway, steel plates installed to maintain pedestrian access	
<b>Comments:</b> Proposed lane closure with alternate single lane working with traffic lights over a series of weekends to help minimise works duration and maintain safe working. TM would be removed during the week.	