RDP National Meet the Buyers

Scheme Presentation

18 August 2022



A12 Chelmsford to A120 Widening

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Scheme Overview – A12

- Part of Highways England's strategic road network connecting the ports of Felixstowe and Harwich to London
- Due to a lack of capacity, the A12 suffers from congestion, lack of resilience and poor journey time reliability, which negatively impacts the economy, society and environment.
- Several junctions directly from the A12 provide access to residential, commercial and agricultural properties, which have congestion and safety implications.
- Due to the lack of nearby alternative routes, the resilience on this section of the A12 is an issue.
- Sections of the route have been identified as having safety issues with a high collision rate and maintenance issues.
- The current transport capacity does not accommodate future employment, development growth, housing growth and increase in freight traffic.







Programme

Activity	2022	2023	2024	2025	2026	2027
End of Preliminary Design (Submit DCO)	•					
PCF Stage 4 – Statutory Process						
PCF Stage 5 - Detailed Design						
Advanced Works – Archaeology, Ecology Mitigation, SU Diversions						
Target Cost and Procurement for Construction						
Commence Main Construction			•			
PCF Stage 6 – Main Construction						
Open for Traffic						•





A12 Works Summary

The scheme includes:

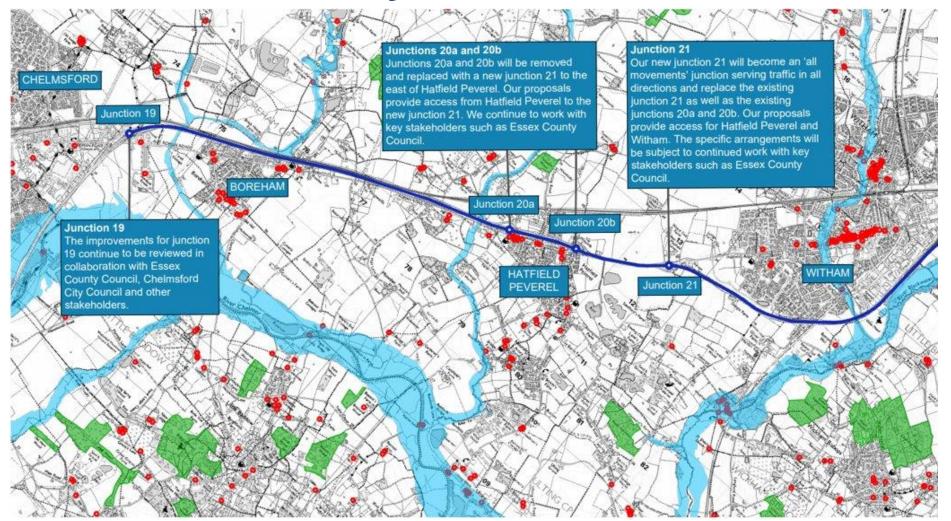
- Improvements to J19 and J25
- Widening from 2 lanes to 3 lanes from J20 to J25
- Bypass at J22-23 (Rivenhall) and J24-25
- 3 New Grade Separated Junctions

- 6 New WCH Bridges
- Installation of roadside technology





A12 Works Summary







A12 Works Summary

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Junction 23 We are considering whether we can remove junction 23, but with new access roads provided from Kelvedon to junction 22. The Government's Road Investment Strategy 2 (RIS2) stated that the A12 scheme will need to take into account the evolving proposals for the A120 Braintree to A12 improvements. We therefore may need to include scope for a potential future road link joining to the proposed improvements to the A120 road.

Junction 23

Junction 22

unction 2

Our new Junction 22 will remain an 'all movements' junction serving traffic in all directions. Our proposals provide access to Rivenhall and Kelvedon via the existing A12. Our proposals also provide access for Witham and Little Braxted. The specific arrangements will be subject to continued work with key stakeholders such as Essex County Council.

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Junction 24

Our new junction 24 will become an 'all movements' junction serving traffic in all directions. Our proposals provide access to the improved A12 from Inworth Road which will serve the communities of Kelvedon, Inworth, Tiptree and others. The specific arrangements will be subject to continued work with key stakeholders such as Essex County Council.

unction 2

Junction 25

Prior to the existing junction 25, we will connect to the current A12. At this connection point we propose to create new slip roads and a roundabout. Alongside this, we will modify and improve the existing junction. It will remain an 'all movements' junction serving traffic in all directions. Our proposals provide access to Marks Tey, Copford and the A120, and provide a connection to the existing A12. The specific arrangements will be subject to continued work with key stakeholders such as Essex County Council.



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Listed Buildings

Flood Zones
Ancient Woodlands



Preliminary Design – Key Quantities

- Fencing 120 km
- Concrete Barrier 23 km
- Steel VRS 65 km
- Carrier and Filter Drains 210 km
- Manholes / Chamber 2,500 No.
- Excavation / Cut 2.9m m3
- Channel / Slot Drain 31 km
- Kerbs / Edging / CKD 115 km
- Footways 88,000 m2

- Traffic Signs 1,200 No.
- MS4s 45 No.
- CCTV 39 No.
- New Overbridges 11 No.
- Modular Block Retaining Walls 1600 linear m
- Sheet Pile Retaining Walls 2000 linear m
- Works / widening to existing structures 12 No.
- Culverts 1300 linear m





Key procurement activities

Site security - CCTV Site security - security guards Security solutions Compound catering Compound cleaning **Temporary Compound Electrics** Accommodation Temporary surfacing Soil stabilisation -Fencing/Hoarding/Ped guard rail IT Set up PAT testing Office equipment & consumables Drainage General civils works (ducting, foundations, drainage) Compound design **Direct Works** Site clearance



Fencing temporary Fencing permanent Environmental barrier Concrete safety barrier Pedestrian guard rail Steel safety barrier (inc. road reinstatement) Drainage Surveys (CCTV draiange and jetting) Drainage repairs Saw cutting and rock saw (diamond drilling?) Carriageway joint repairs Concrete pavements Slip form Surface water channel/ slot drain Kerbing Access Steps & Pathways Road signs Permanent road marking (inc. anti-skid) Road lighting (inc. ducting) CCD Works Gantries (Structural & Steelwork) - standardisation MS3s, MS4s and AMIs Emergency Roadside Telephones (ERT's) CCTV Side fire radar CCTV Masts Stop vehicle detection Hadecs Pre-cast beams Concrete repairs Bridge jacking Structural Steel Beams Steel weathering surveys Footbridges Steelwork Protection - not antic. Waterproofing (inc. bridge joints) Brickwork, Blockwork and Stonework - not antic. Landscaping Special ecological measures Buildability/Temporary works Archaeological mitigation Indirect Works Ground investigation Labour hire

Temporary average speed cameras Temporary vehicle restraint system Commercial/Estimating support Utilities stat support Temporary works design - see above Emergency spill response Cranage & contract lifts Traffic Signal Supply & install Thrust bore for drainage NRTS Comms commissioning Ground water monitoring - archaeology mitigation Ground water monitoring - main works Commodities Accommodation & temporary fencing/hoarding (evo units, etc) Non-operated plant (inc. small tools) Cranes **Builders Merchant** Personal protective Equipment Site consumables& equipment, janitorial products & beverages Safety Signage Bulk Fuels (Gas Oil & Diesel) Utility Bureau Service (Gas & Electric) Concrete fixings Reinforcement accessories **Commercial Vehicle Hire Timber Merchant** Washroom & Pest Control Laundry Service Mobile Phones Operated plant Crushing and screening Pumps Concrete pipework Plastic pipework Geotextiles Pre cast concrete units (PCC) Drainage Disposal off site Temp bridges Structural concrete Rebar



How to get involved

- · Majority tendering opportunities remain
- Please complete our expressions of interest form if you are interested in any of the opportunities here: <u>https://forms.office.com/r/TPv1X4ewmf</u>
- Or by scanning this QR Code:



How to get involved, contact <u>teik.tan@costain.com</u>, Procurement & Supply Chain Manager



