

RDP National Meet the Buyers

Scheme Presentation

18 August 2022



A12 Chelmsford to A120 Widening

Paul Sprague – *Project Manager, A12*

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						◆



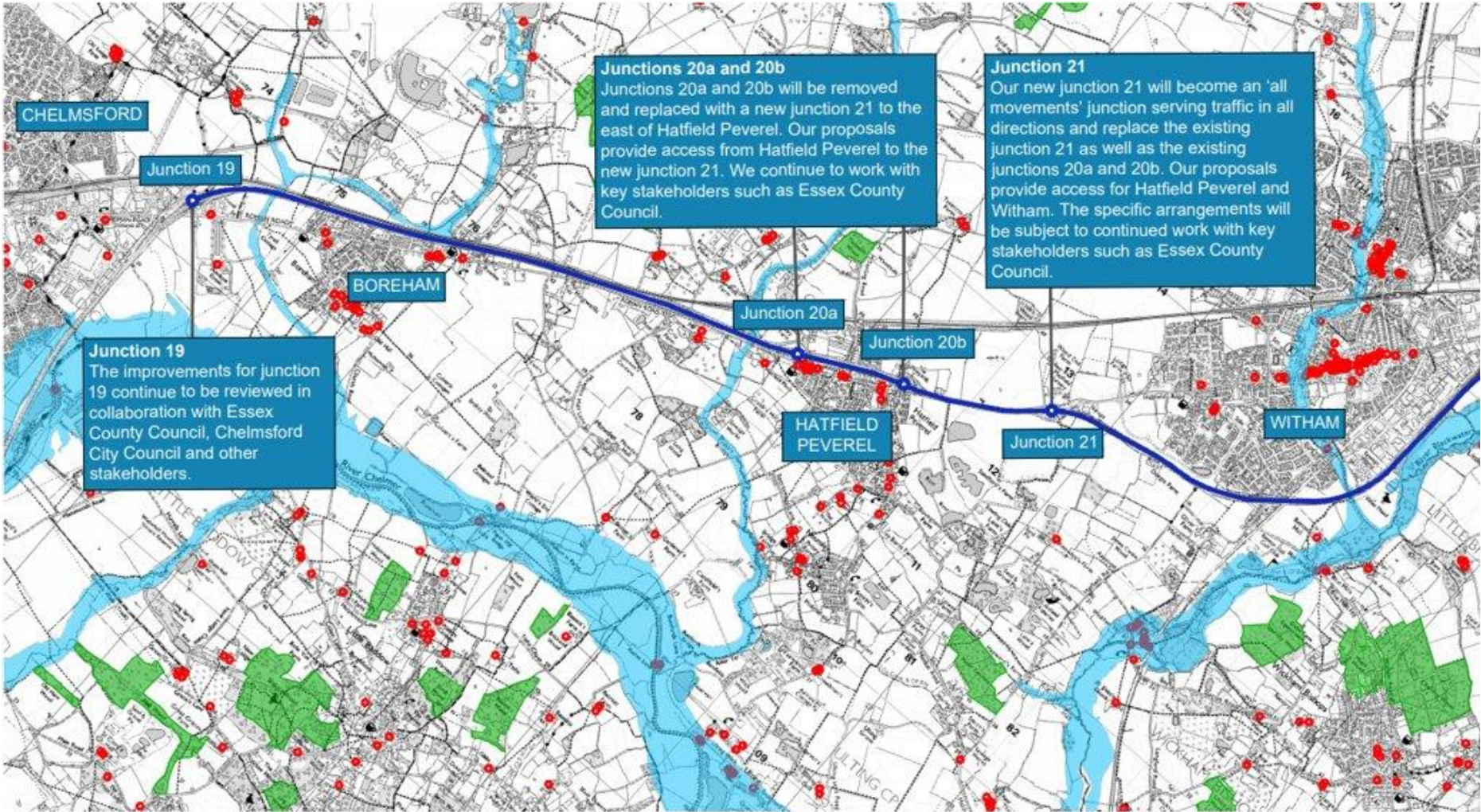
A12 Works Summary

The scheme includes:

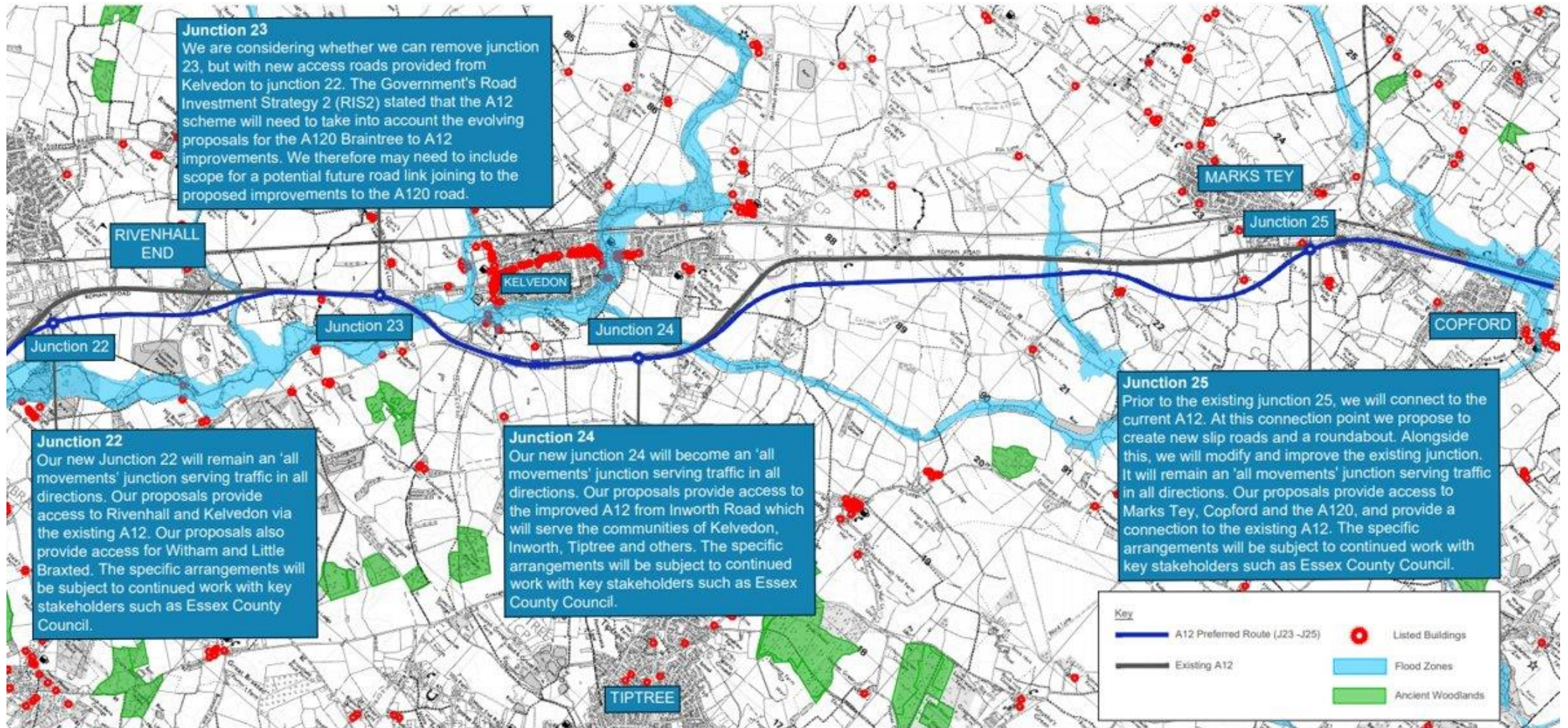
- Improvements to J19 and J25
- Widening from 2 lanes to 3 lanes from J20 to J25
- Bypass at J22-23 (Rivenhall) and J24-25
- 3 New Grade Separated Junctions
- 6 New WCH Bridges
- Installation of roadside technology



A12 Works Summary



A12 Works Summary



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 drainage 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
Crane & 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: <https://forms.office.com/r/TPv1X4ewmf>
- Or by scanning this QR Code:



- How to get involved, contact teik.tan@costain.com, Procurement & Supply Chain Manager

COSTAIN

Jacobs

