



A46 STONELEIGH JUNCTION IMPROVEMENT SCHEME

EXISTING A46 BRIDGE CLOSURE –
STONELEIGH & ASHLOW PARISH COUNCIL

10 November 2022



COLAS

WE OPEN THE WAY



INTRODUCTIONS

A46 STONELEIGH JUNCTION IMPROVEMENT SCHEME

PAUL BENTLEY

PROJECT MANAGER – WARWICKSHIRE COUNTY COUNCIL

ANDY BOND

SENIOR PROJECT MANAGER - COLAS LIMITED

ZESHAN HUSSAIN

HIGHWAYS SUB-AGENT – COLAS LIMITED

STEVEN BROOKS

SENIOR QUANTITY SURVEYOR – COLAS LIMITED

PROJECT OVERVIEW

A46 STONELEIGH JUNCTION IMPROVEMENT SCHEME



Construction Overview

- New Gyrotory and Junction Upgrade
- New Bridge over A46 Carriageway – 36m
- New Bridge over Finham Brook – 19m
- Improvement works to Existing A46 Bridge



Stakeholders

- Contract between Colas and Warwickshire County Council
- National Highways take over part of works on completion



PROJECT ISSUES

NEW BRIDGE STRUCTURAL STEELWORK



New A46 Bridge Structural Steelwork

- 2 of the 8 girder had a fabrication error
- Collaborative working to resolve
- Deck was ready for concrete on 15th March
- Girders rectified on 18th October



Outcome

- Issue has delayed works by 7 months
- Colas, WCC and NH working to mitigate that delay
- Works to the Existing Bridge is one of those mitigations
- This is why planning approval is being sought



EXISTING BRIDGE WORKS

ORIGINALLY ACCEPTED PLANNING PROPOSAL



Existing Work Activities

- Bridge done in two halves – **North** & South
- Running Traffic maintained as it is one way
- New A46 Bridge open
- Works to take **16 weeks**
- Works happen in final phase – Majority of other works completed



Works Involve

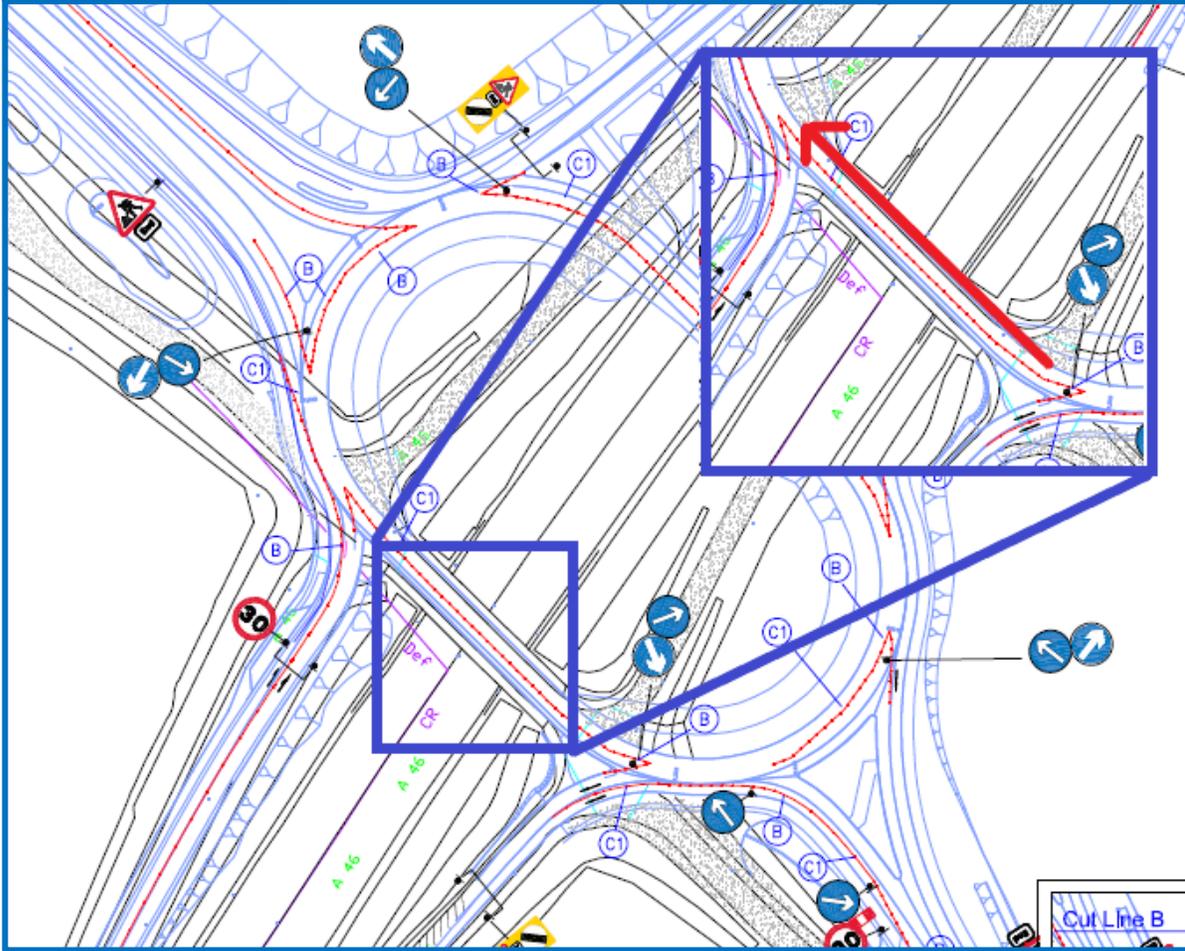
- Surfacing removal
- Concrete repairs
- Upgraded service trough
- Upgraded footpath
- Upgraded parapet
- Waterproofing and resurfacing



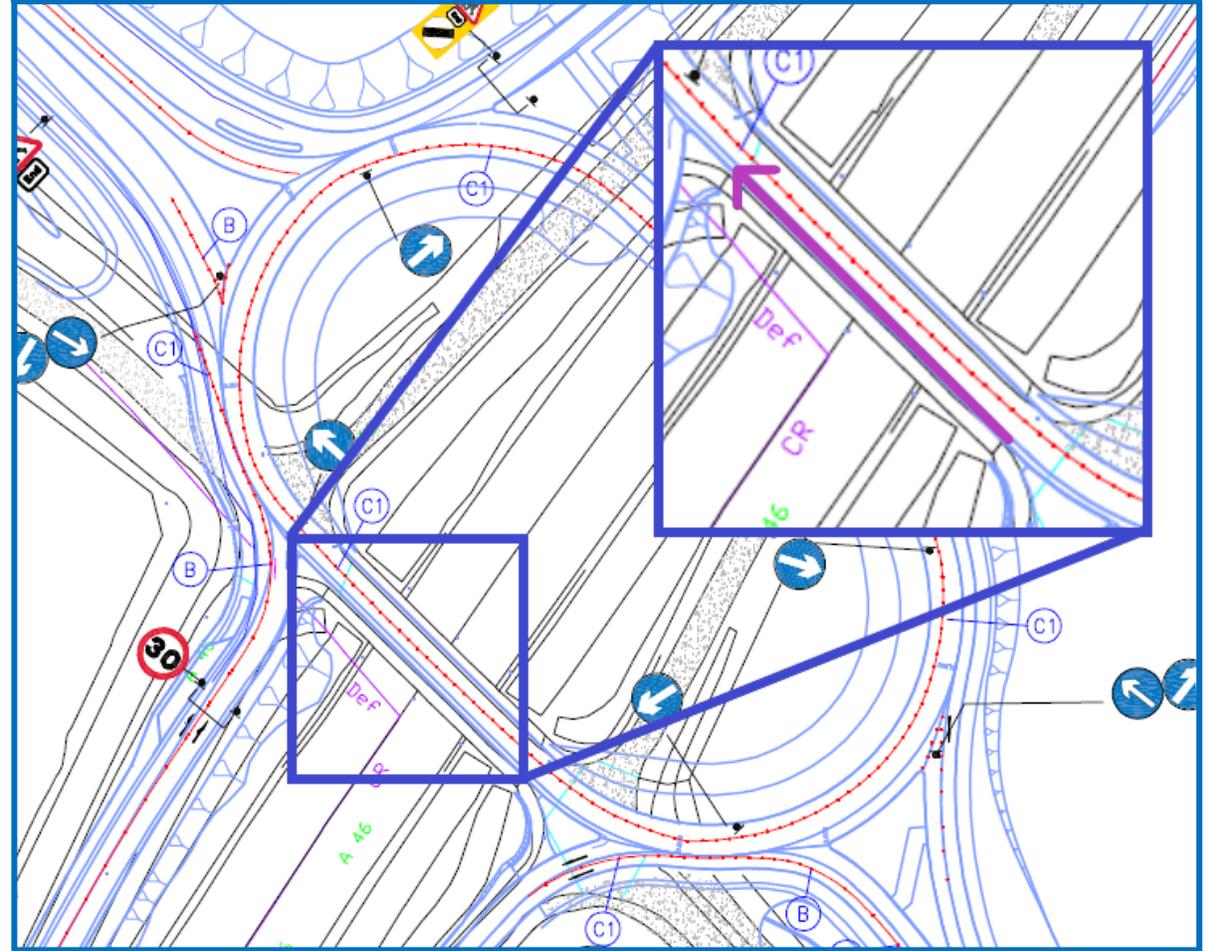
EXISTING BRIDGE WORKS

ORIGINAL TRAFFIC MANAGEMENT PLAN

North Verge



South Verge



EXISTING BRIDGE WORKS

ORIGINAL PROGRAMME OF WORKS

A46 Stoneleigh Junction Improvement Scheme

Existing Bridge Works - Original

Description	Duration	Week																																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
NEW A46 BRIDGE	19W																																				
Complete Bridge Deck	4W																																				
Bridge Deck Move	1W																																				
Concrete Works	5W																																				
Reinforced Earth	3W																																				
Finishings	6W																																				
EXISTING BRIDGE WORKS	16W																																				
Works to North Verge	8W																																				
Works to South Verge	8W																																				
TOTAL DURATION	35W																																				

EXISTING BRIDGE WORKS

PROPOSED WORKS TO EXISTING BRIDGE



New Work Activities

- Works done in **single phase**
- Reduction in total duration



Works Involve (Unchanged)

- Surfacing removal
- Concrete repairs
- Upgraded service trough
- Upgraded footpath
- Upgraded parapet
- Waterproofing and resurfacing



EXISTING BRIDGE WORKS

PROPOSED TRAFFIC MANAGEMENT PLAN



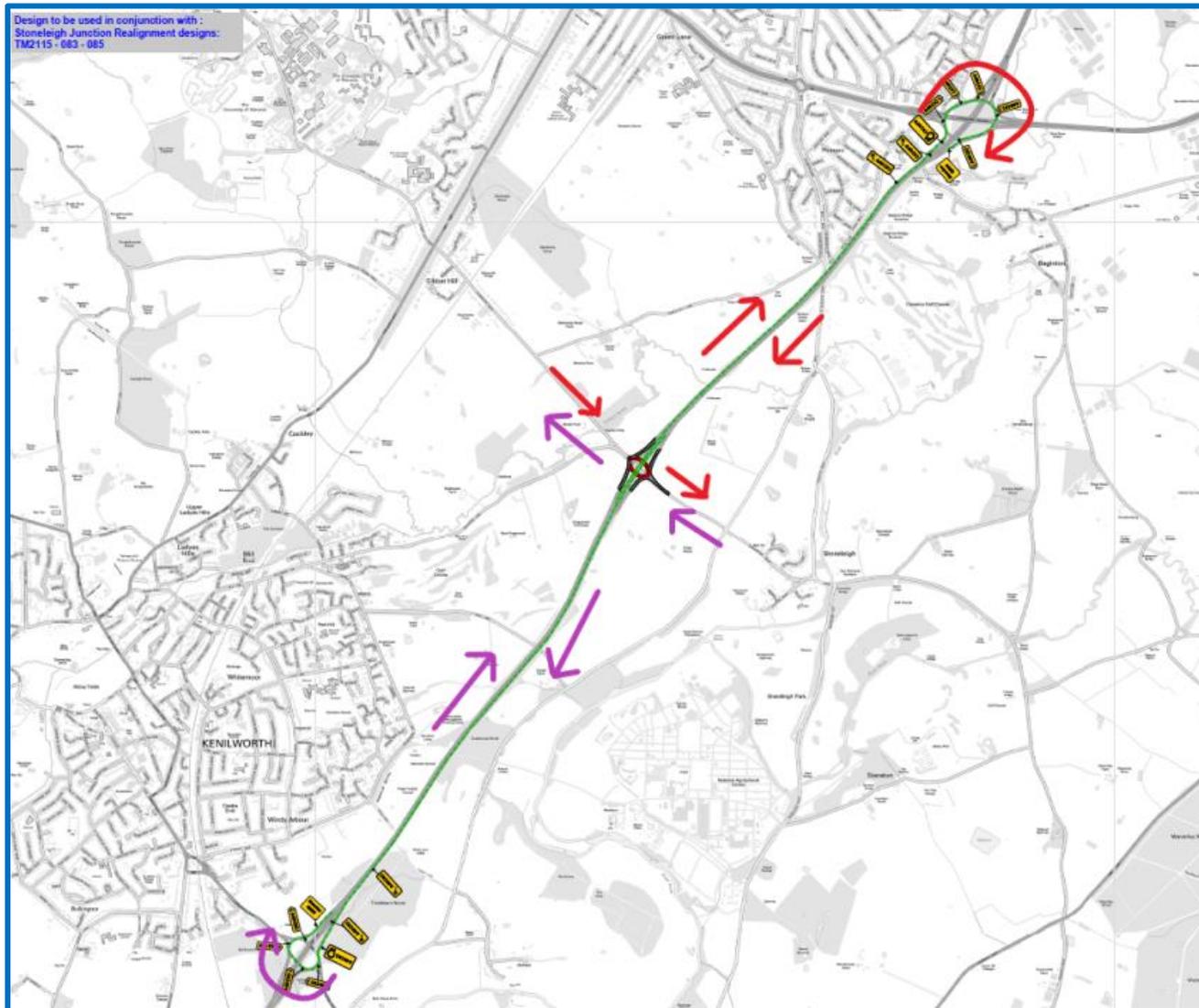
Effect on Traffic

- Both Bridges Closed
- A46 as diversion route
- No East or West bound traffic



EXISTING BRIDGE WORKS

PROPOSED TRAFFIC MANAGEMENT PLAN - DIVERSION



EAST BOUND TRAFFIC

1. North bound on slip
2. Stivichall interchange
3. South bound on A46
4. South bound off slip



WEST BOUND TRAFFIC

1. South bound on slip
2. Thickthorn roundabout
3. North bound on A46
4. North bound off slip

EXISTING BRIDGE WORKS

PROPOSED PROGRAMME OF WORKS

A46 Stoneleigh Junction Improvement Scheme

Existing Bridge Works - Proposed

Description	Duration	Week																																				
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Reinforced Earth	3W																																					
Finishings	6W																																					
EXISTING BRIDGE WORKS	5W																																					
Close Bridge	0W																																					
Works to Bridge Deck	5W																																					
TOTAL DURATION	19W																																					

EXISTING BRIDGE WORKS

PROPOSED TRAFFIC MANAGEMENT PLAN – VECTOS TRAFFIC DELAY ANALYSIS



ANTICIPATED IMPACT

- Vectos undertook analysis of closure
- Overall 5/7% delay on average
- 5 minute diversion route
- Queuing at Thickthorn Roundabout
- Better traffic at Stoneleigh and Stivichall

Flow Diagram – AM Peak

SUMMARY

A46 STONELEIGH JUNCTION IMPROVEMENT SCHEME

- 4 month saving on programme
- Shorter period of disruption
- Will provide a safer junction sooner





ANY OTHER BUSINESS

A46 STONELEIGH JUNCTION IMPROVEMENT SCHEME

QUESTIONS