



EAST LEEDS ORBITAL ROUTE(ELOR) Phase 3

Feb 2020



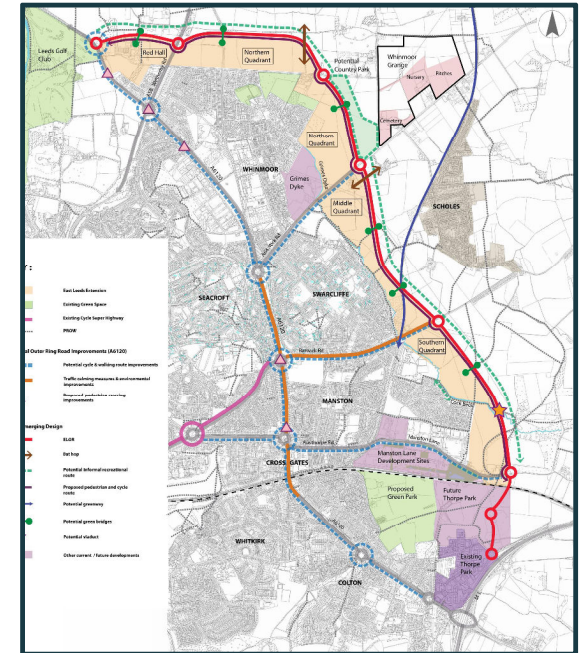
Aim

- Scheme overview & update
- Programme
 - High level summary
 - Works planned for the next 3 months
- Construction of intersecting junctions
- Closure of Coal Road & Thorner Lane
- Traffic management and Public Rights of Way (PROW)



Overview

- Infrastructure required to allow the construction of 5000 new homes within the East Leeds Extension and to ease congestion on surrounding routes
- Planning Approval P Granted
- Land Acquisition Process P Done
- Improvements to a number of existing Outer Ring Road junctions
- Phase 3 – Main works from A6120 Red Hall to Manston Lane Junction
 - 6.8Km new carriageway
 - Segregated cycleway/footpath
 - Extensive landscaping
 - 5 New round-about junctions + 1 Tie in to existing junction
 - 2 bridges
 - 3 footbridges

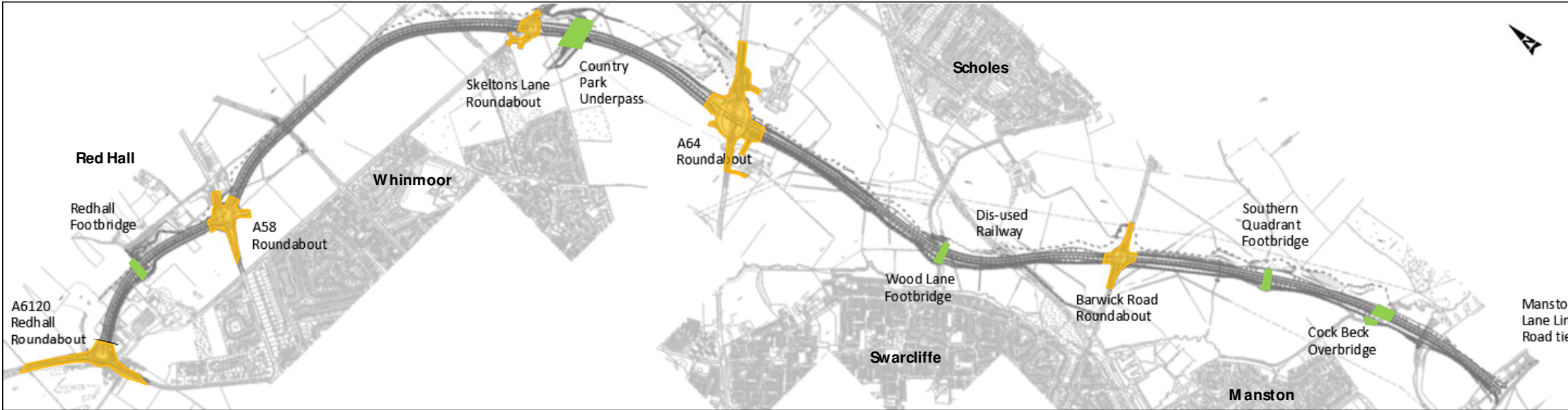


Programme Overview

- 2 Year main construction works programme starting after Easter, Spring 2020 – Summer 2022
- Preconstruction works from January 2020 –
 - land access, site clearance, surveys, archaeological works, main site compound
- Offline junctions prioritised to gain access to the site and allow SU service diversion works to commence
- Start offline bulk earthworks on 3 working fronts;
 - Manston Lane
 - Barwick Rd roundabout
 - A64 roundabout
- Structures to commence June 2020 until October 2021



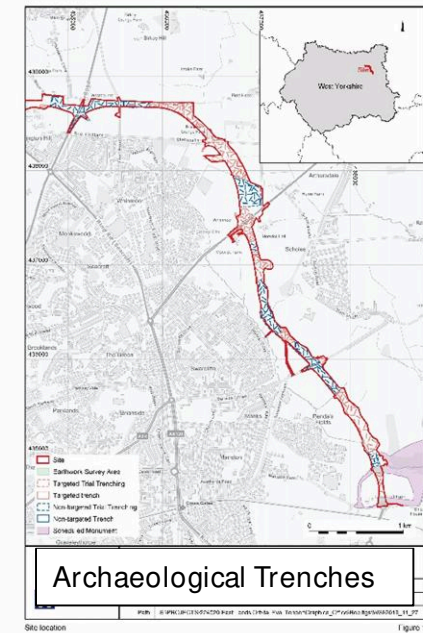
High Level Summary – Overall Programme



PHASE	2020												2021												2022														
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D			
Overall ELOR Phase 3 Prog	[Blue bar]																																						
Site Clearance/ Archaeological Works (trenches)	[Light Blue bar]																																						
Start Main Works (After Easter 2020)				[Blue bar]																																			
Junction Works (5 no)				[Yellow bar]																																			
Bulk Earthworks				[Brown bar]																																			
Roadworks				[Grey bar]																																			
Verge & Footways				[Grey bar]																																			
Structures (6 no)				[Green bar]																																			
Landscaping & Planting				[Green bar]																																			

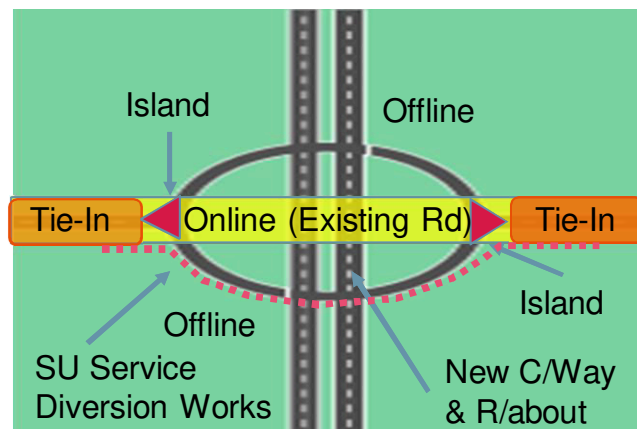
Works planned for the next 3 months (Upto May 2020)

- Site Compound – Main/Satellite
- Access/SU Service utilities protection works
- SU Service utilities diversion works
- Archaeological trial trenches and recording
- Site clearance
- Setting out/fencing works
- Commence main works:
 - Junction works – Offline
 - SU Service diversions
 - Topsoil strip
 - Bulk earthworks
 - Ponds
 - Drainage



Junctions – General Concept

- Build Offline to allow SU service diversion works
- SU service diversion Works
- Online carriageway works
- Tie-In Works
- Island Construction
- Final Surfacing



- Minimise disruption to road users and pedestrians. short construction duration, keep the traffic flowing.
- Road speed limit reduced to 30mph
- Working Hours:
 - 0800 – 1800hrs Weekdays
 - Peak
 - Off Peak
 - Minimise night-time and weekend working
 - Minimise lane & road closures

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goalsposts that will compromise the safety clearances. If work must be undertaken in these areas, authorisation will be given by Balfour Beatty stating all control measure to be implemented and authorisation given by a member of the Project Management Team.

Underground Services
 Be aware when accessing site that there are dangers from underground utility services. Beware we have 2 high pressure gas mains on this site. All vulnerable pipes and cables have been protected by suitable means prior to any vehicle accessing site and will also be clearly highlighted using appropriate signage. If the protection system has been disturbed or does not appear to be satisfactory, then do not attempt to drive any vehicle across and call for assistance and further guidance.

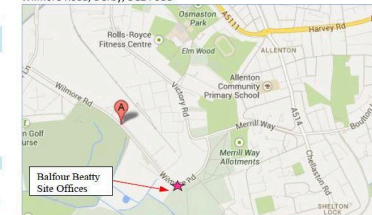
Operational Sites, Work Areas & Site Demarcation
 All work areas within the site will be demarcated by the working party for the safety of themselves and others. When entering site you may observe cones and rope, Heras fencing or other temporary makers that clearly demarcate the working area. Do not enter or attempt to enter these areas unless you are specifically instructed to by a Balfour Beatty member of staff.

Only enter these work areas under the direct supervision of an appointed Vehicle Marshal and beware of plant and machinery working in the vicinity. Follow all instructions given to you and please wait if asked to do so, for your own safety.

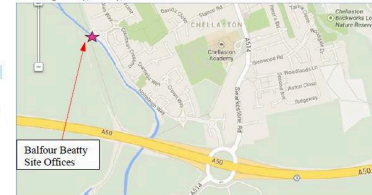
Accident, Incident, Near Miss & Hazard Reporting
 If you are involved or observe any accident, incident, near miss or hazard whilst working on any Balfour Beatty site, you must report the event to a member of the Project Management Team as soon as reasonably practicable. This will enable us to offer prompt medical assistance where necessary and/or implement suitable control measures as appropriate to prevent a similar event occurring in the future. When reporting the accident, incident, near miss or hazard, ensure you provide factual information relating to the circumstances, time, date and location of the occurrence

Site Safety Induction Flash Card for visiting drivers

Balfour Beatty Site Offices (Rolls Royce)
 Wilmore Road, Derby, DE24 9BD



Satellite Compound (A50)
 Holmleigh Way, Derby, DE73 5XE



Controlled access for deliveries

- Redhall Lane – No access to construction traffic

Example of visiting drivers flash card





Ch.0-60

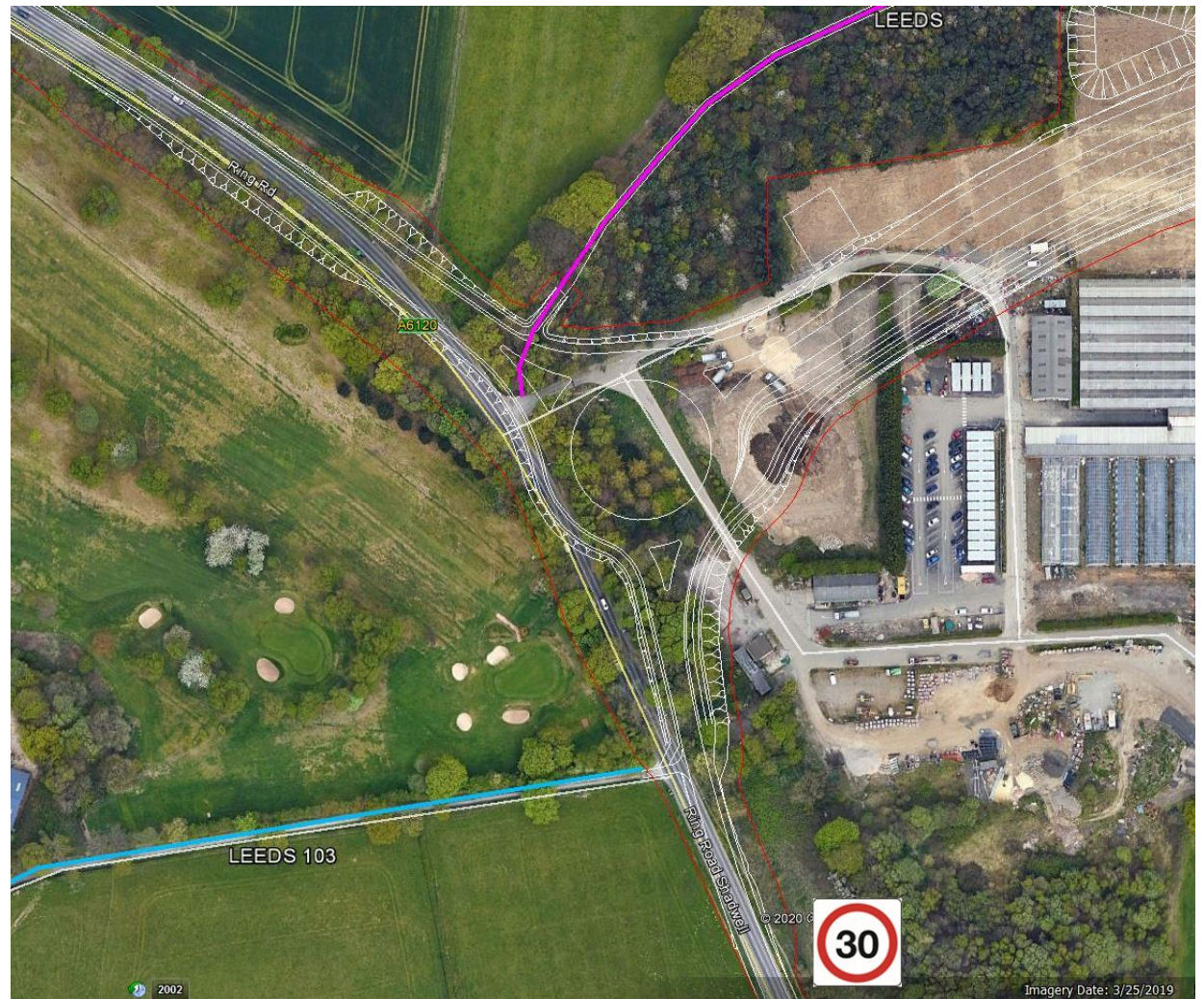
A6120 Redhall Roundabout



Ch.0-60

A6120 Redhall R/ abt

- Offline construction for SU service utilities diversion works
- Extensive site clearance – ongoing
- New access to main site compound
- Extensive cut/fill earthworks
- Road speed limit reduced to 30mph
- Narrow Lanes – Offline works
- Ability to divert 2 way traffic onto new offline roundabout to construct remainder of online
- 2 Way traffic signals – SU & carriageway tie-ins
- Minimum Closures – Surfacing
- Pedestrians managed through the works to north side.





Ch740-900 A58 Roundabout



Ch740-900

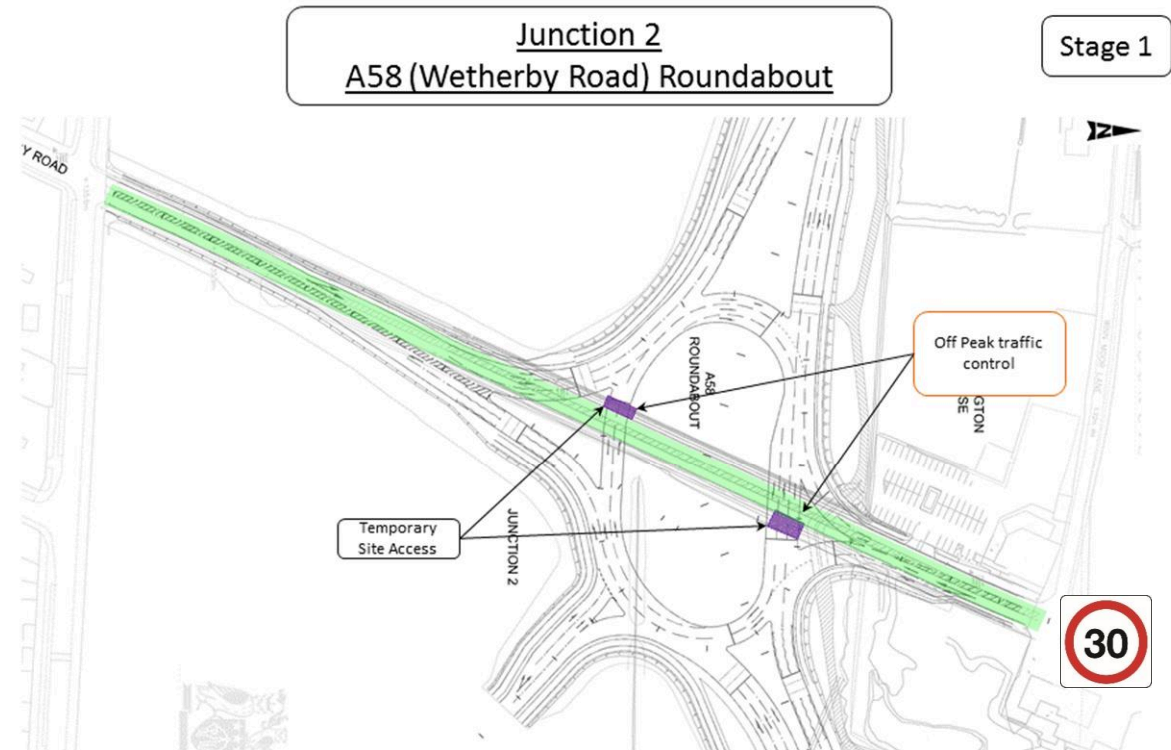
A58 Roundabout

- Road crossing for construction traffic
- Offline construction for SU service utilities diversion works
- Access maintained to The Wellington pub
- Low volume of fill earthworks
- Road speed limit reduced to 30mph
- Narrow Lanes – Offline works
- Ability to divert 2 way traffic onto new offline roundabout to construct remainder of online works
- 2 Way traffic signals – Off peak works
- Minimum closures – Surfacing
- Pedestrian route maintained whilst east side constructed offline then divert to new west footpath



Stage 1 – Temp Access Points

- Temporary access for materials delivery and inter-site earthworks movements.
- 2 way traffic signals

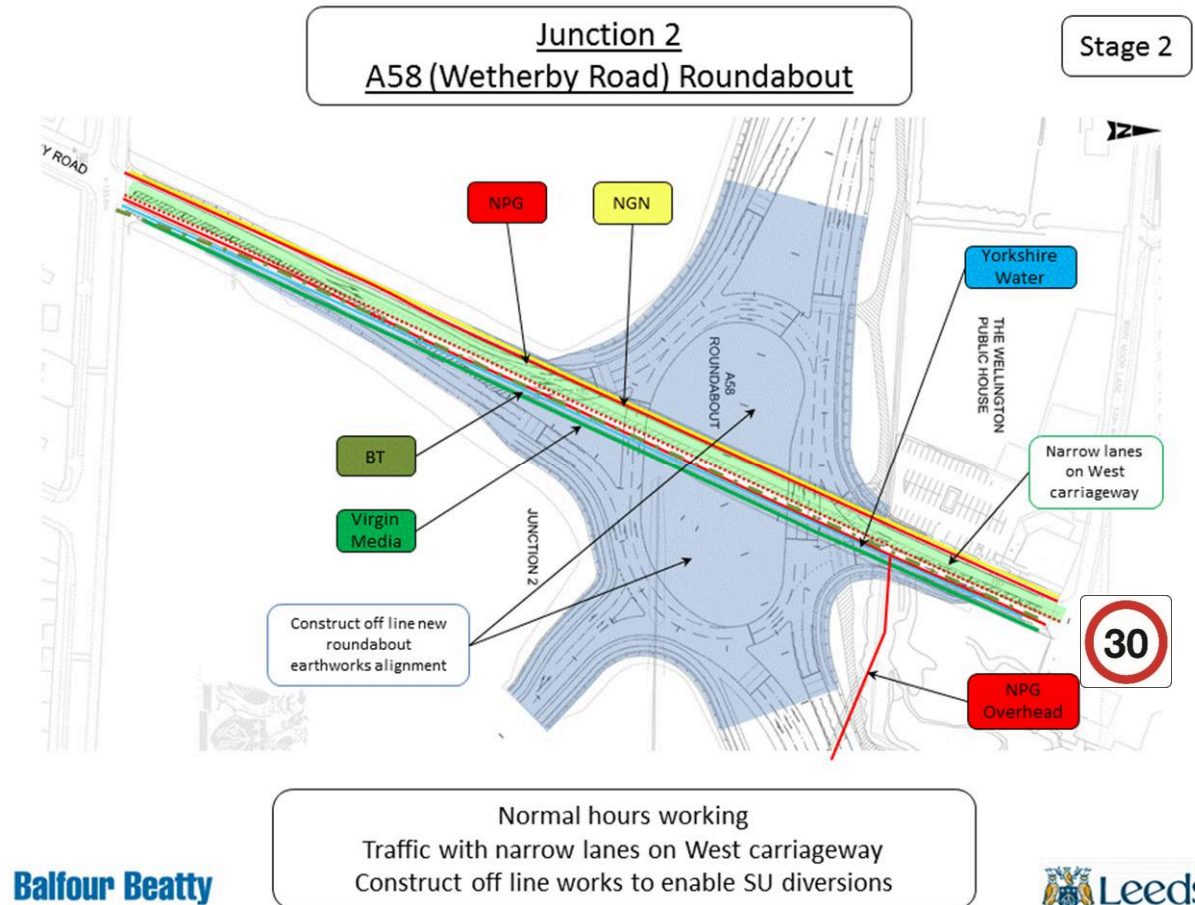


Off peak working
Traffic Under Control to Construct Temporary Site Access



Stage 2 – Offline Works

- Offline works to provide new corridor for SU service utilities diversion works
- Narrow lane running.
- Pedestrians managed locally through the works.
- Public rights of way adjacent to site diverted onto approved routes



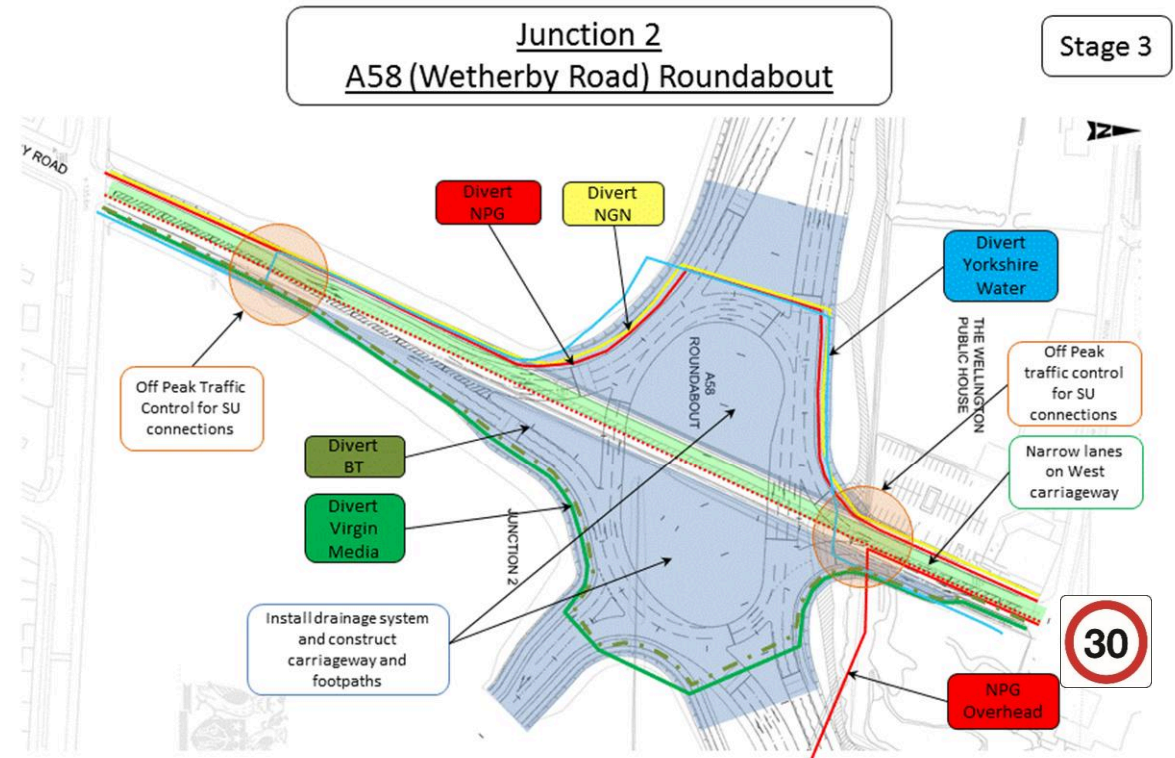
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Stage 3 – SU Service Diversions

- Offline SU service utilities diversion routes with existing traffic on narrow lane running.
- 2 way traffic signals for SU service utilities connections
- Footpath construction on new alignment



Normal hours working
Traffic on narrow lanes on West carriageway
Construct off line works and divert Service Utilities.

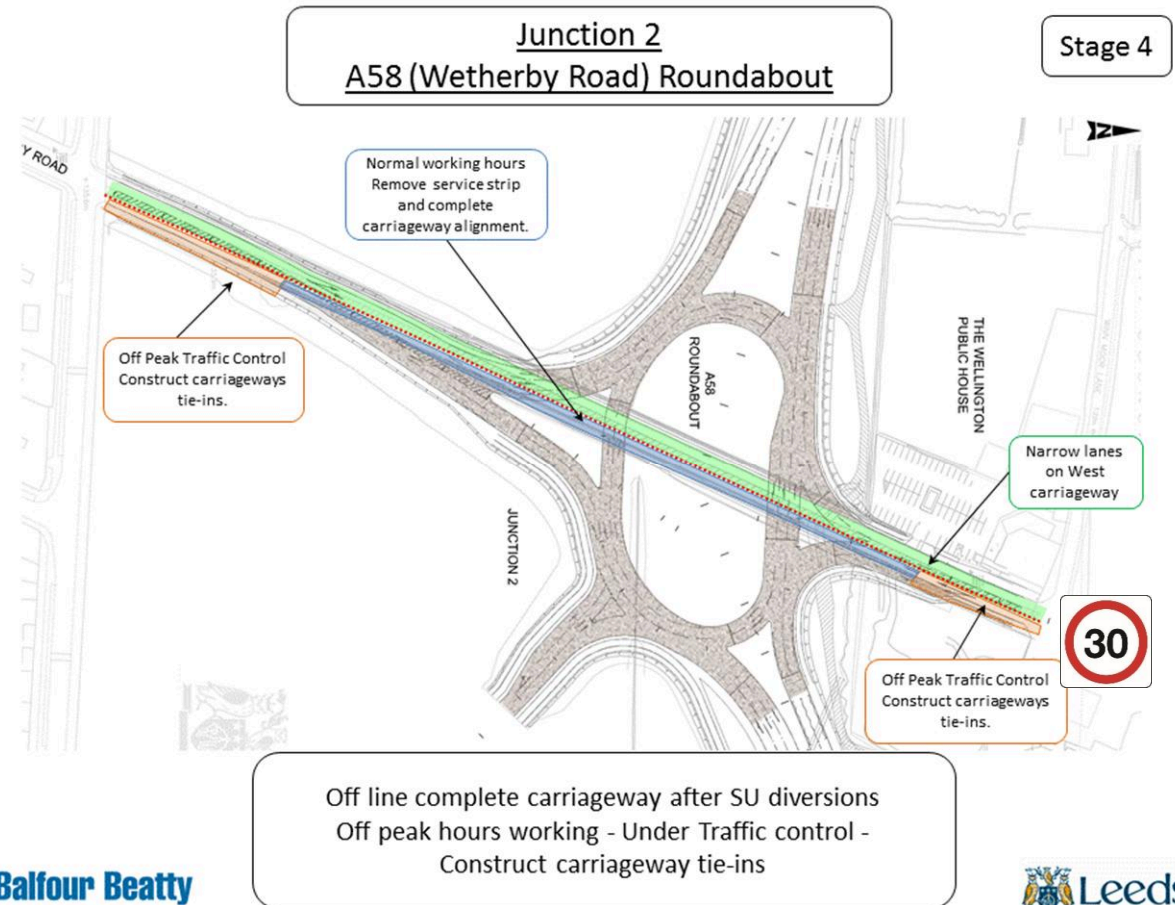
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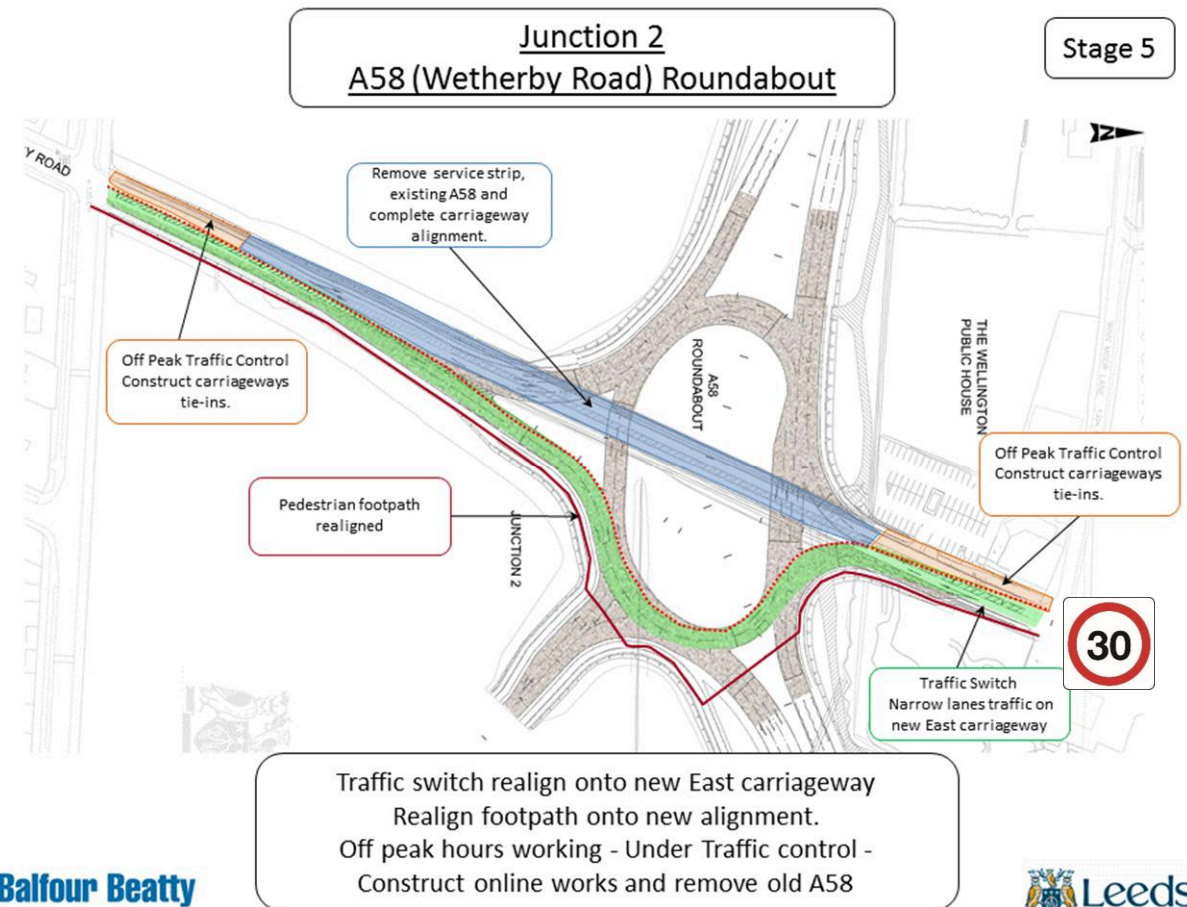
Stage 4 – Tie-in to Existing Rd

- Tie-in to existing road.
- Complete carriageway alignment to service strip following SU service utilities diversion works
- Off-peak 2 way traffic signals
- Pedestrians remain on existing road alignment.



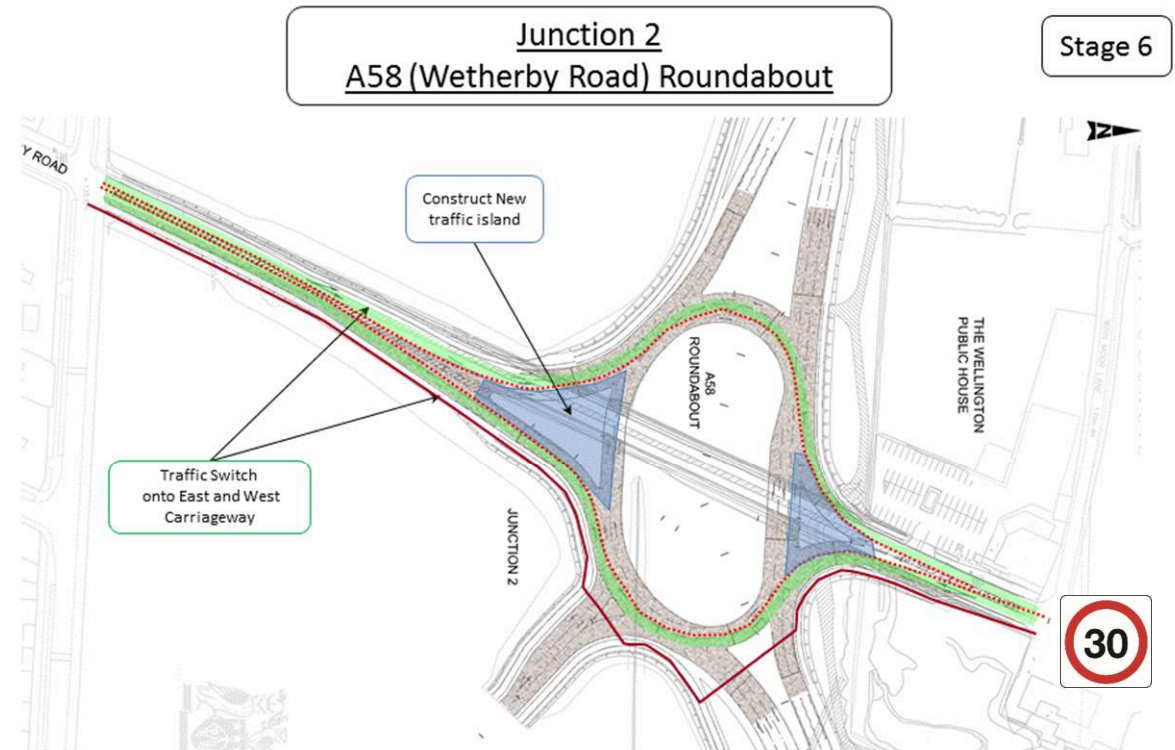
Stage 5 – Tie-in to Existing Rd

- Switch 2 way traffic onto east side of new roundabout.
- Narrow lane running.
- Complete tie-in and service strip alignment west side of existing road.
- Pedestrian re-routed onto new footpath alignment to east side of new roundabout



Stage 6 – Islands

- Traffic switch onto east and west carriageway with through traffic only to allow construction of new traffic islands
- Pedestrians remain on east side of new roundabout.



Traffic switch onto East and West carriageway
Off line – Construct traffic Islands

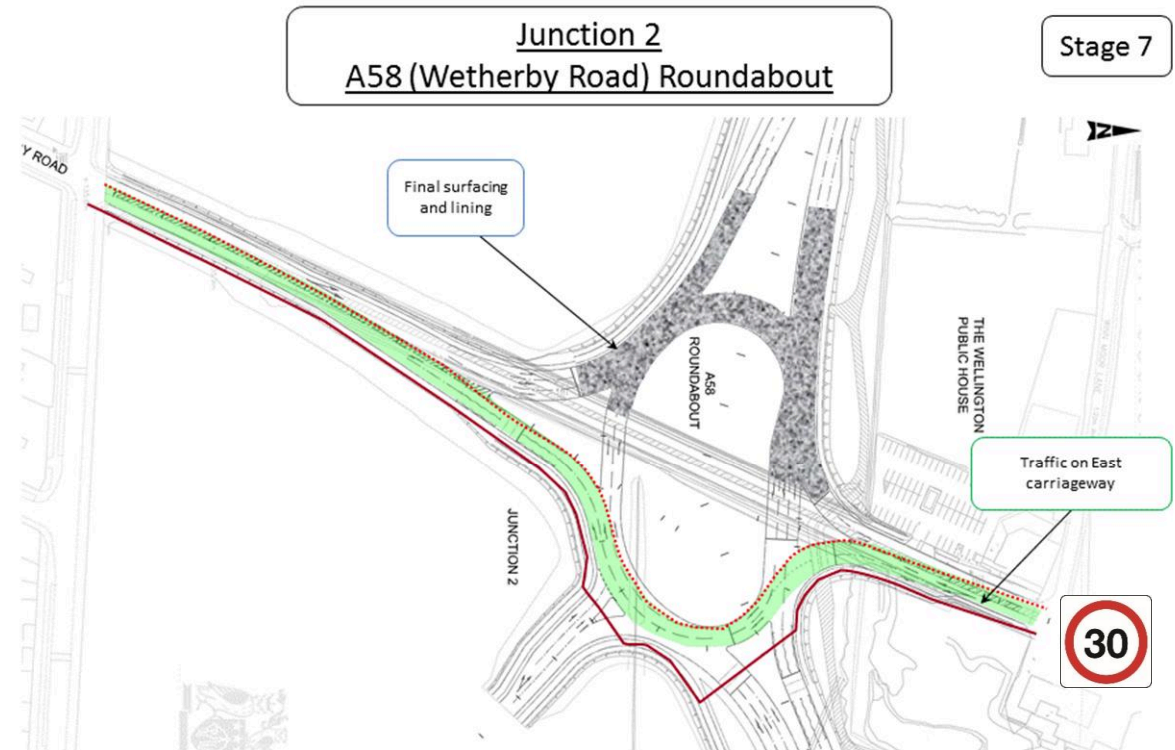
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Stage 7 – Final Surfacing

- 2 way traffic switched to east side of new roundabout
- Maximise working area for final surfacing to westside of roundabout
- Pedestrians remain on east side of new roundabout.



Normal hours working
Off line - Surface carriageway and white line

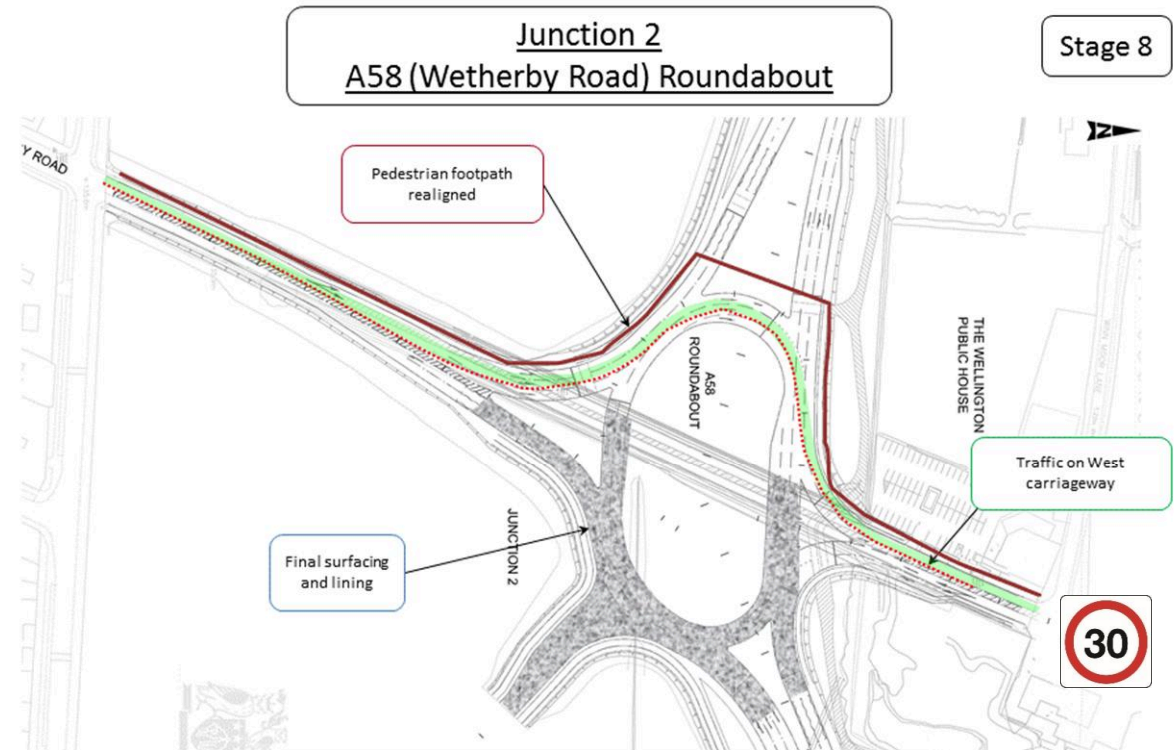
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Stage 8 – Final Surfacing

- 2 way traffic switched to west side of new roundabout
- Maximise working area for final surfacing to east side of roundabout
- Pedestrians switched to west side of new roundabout.



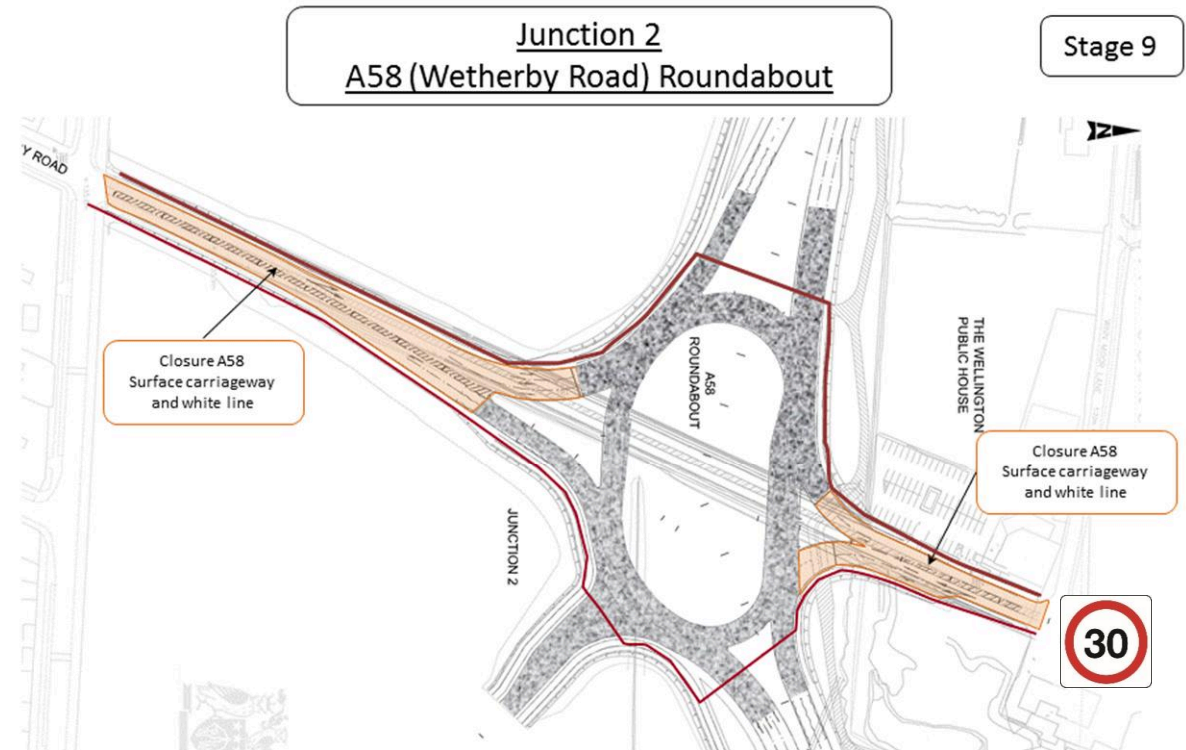
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Stage 9 - Tie-in Surfacing

- Short term closure of Wetherby road to complete final surfacing to tie-ins
- Both east and west footpaths available for pedestrians. Local closures to suit progress of the works.



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Closures of A58 off peak
Surface carriageway and white line

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Ch.2340-2480

Skeltons Lane Roundabout



Ch.2340-2480 Skeltons Lane

- Road crossing for construction traffic
- Offline construction for SU service utilities diversion works
- Very limited earthworks
- Road speed limit reduced to 30mph
- 2 Way traffic signals for tie-in to existing carriageway works and online works, divert traffic onto new roundabout for main surfacing
- Minimum closures – final surfacing at tie-ins
- No existing pedestrian footpath
- Access for Country Park Underpass structure





Ch.3240-3460 A64 Roundabout



Ch.3240-3460

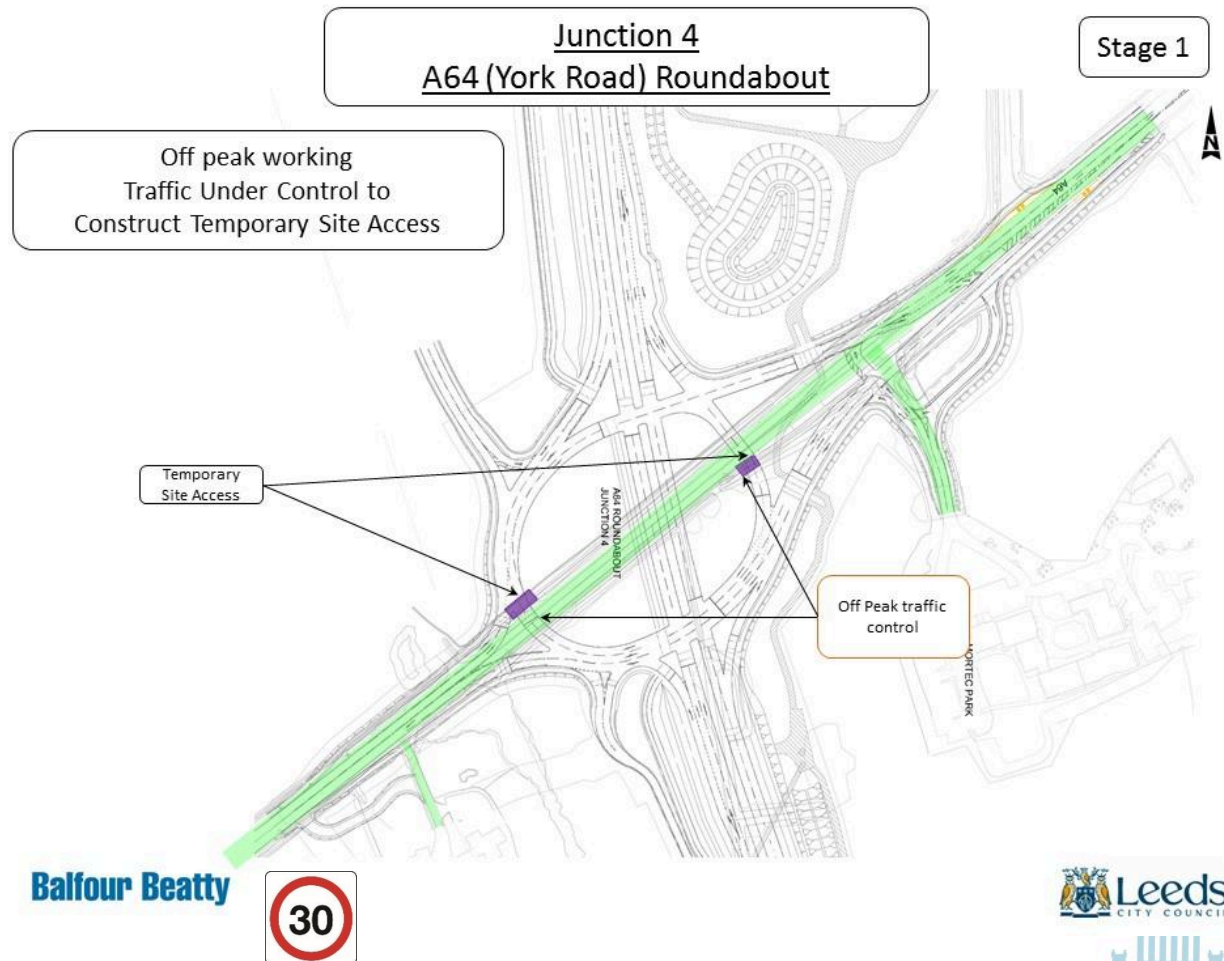
A64 Roundabout

- Minimise disruption to road users narrow lane running where possible
- Road speed limit reduced to 30mph
- Minimise impact on Mortec Park & Morwick Farm – staged working
- Thorner Lane permanent closure timing tbc, as late as possible.
- Temp. relocate bus layby.
- Construct offline for SU service utilities diversion works.
- Pedestrian management through the works



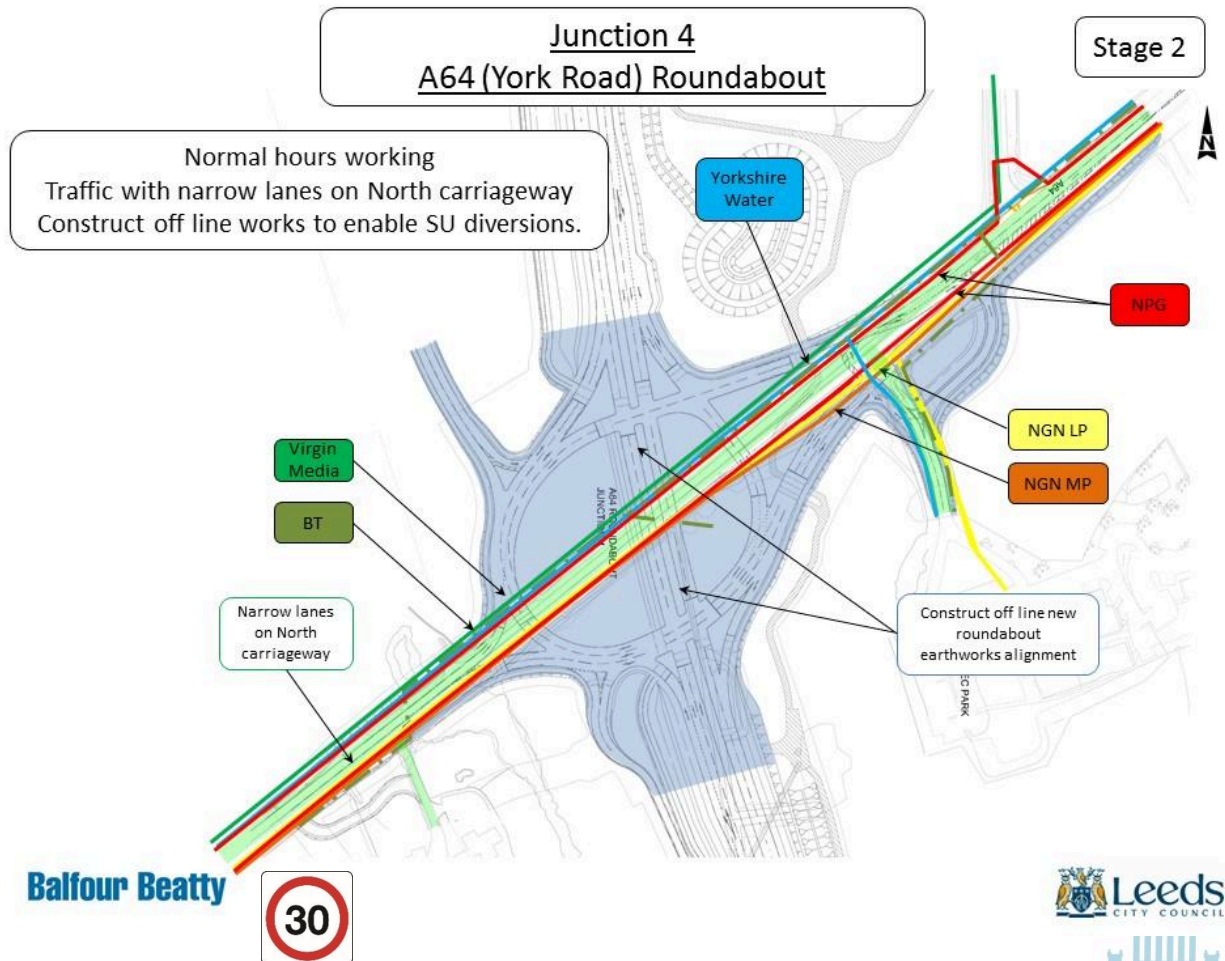
Stage 1 – Temp Access Points

- Temporary access points - protection for existing SU service utilities.
- Temporary access/road crossing points – Materials delivery and earthworks movements from other sections of the new works
- Traffic to remain on current alignment.



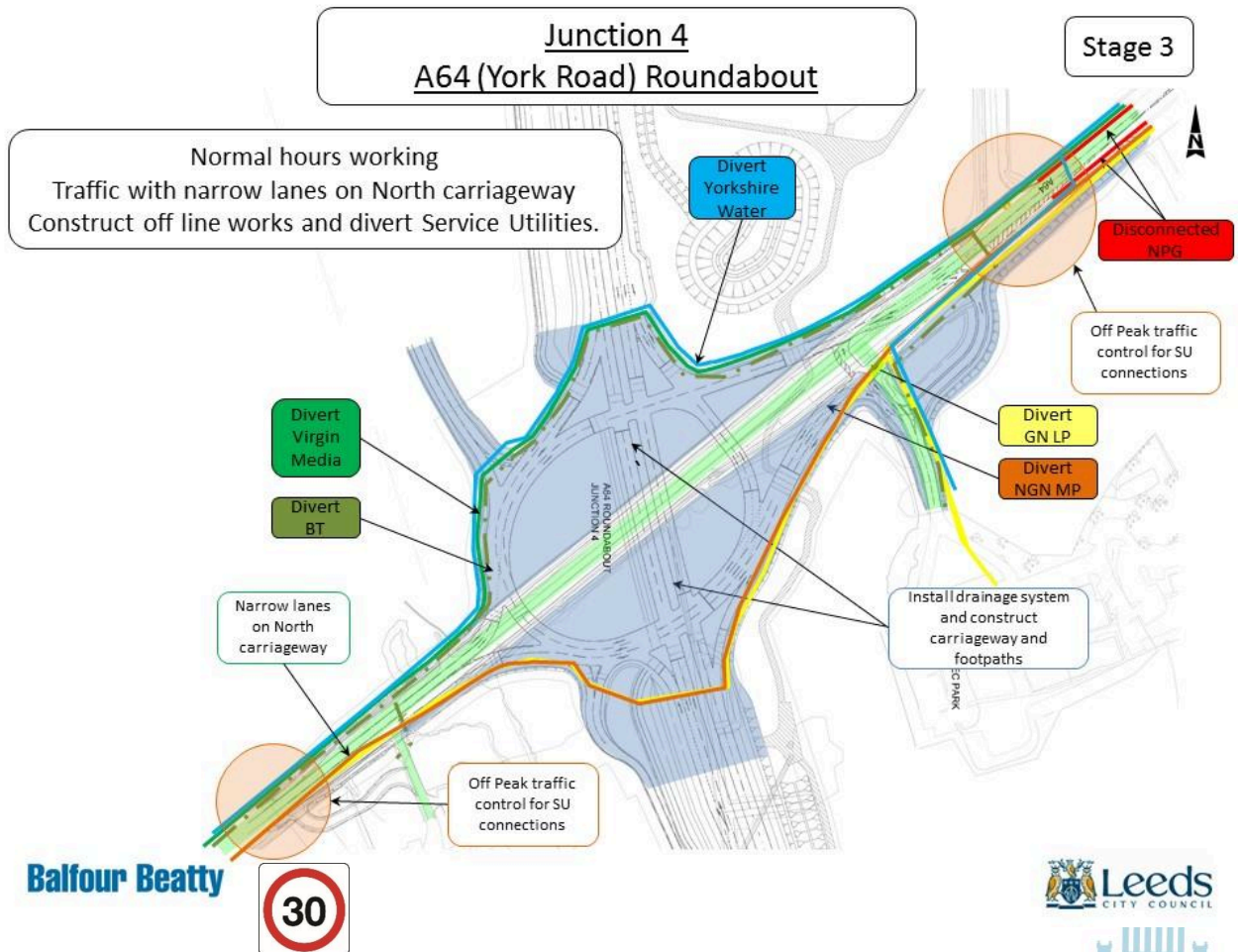
Stage 2 – Offline Works

- Traffic islands and turning lanes in middle of road removed.
- Traffic realigned to run under narrow lanes on north side of the carriageway.
- Thorner Lane to remain open.
- Mortec Park access maintained.
- This provides a working lane on south side of carriageway to allow maintenance of footpath during the construction period.
- Off line areas of new roundabout to be constructed to allow SU service utility diversions.



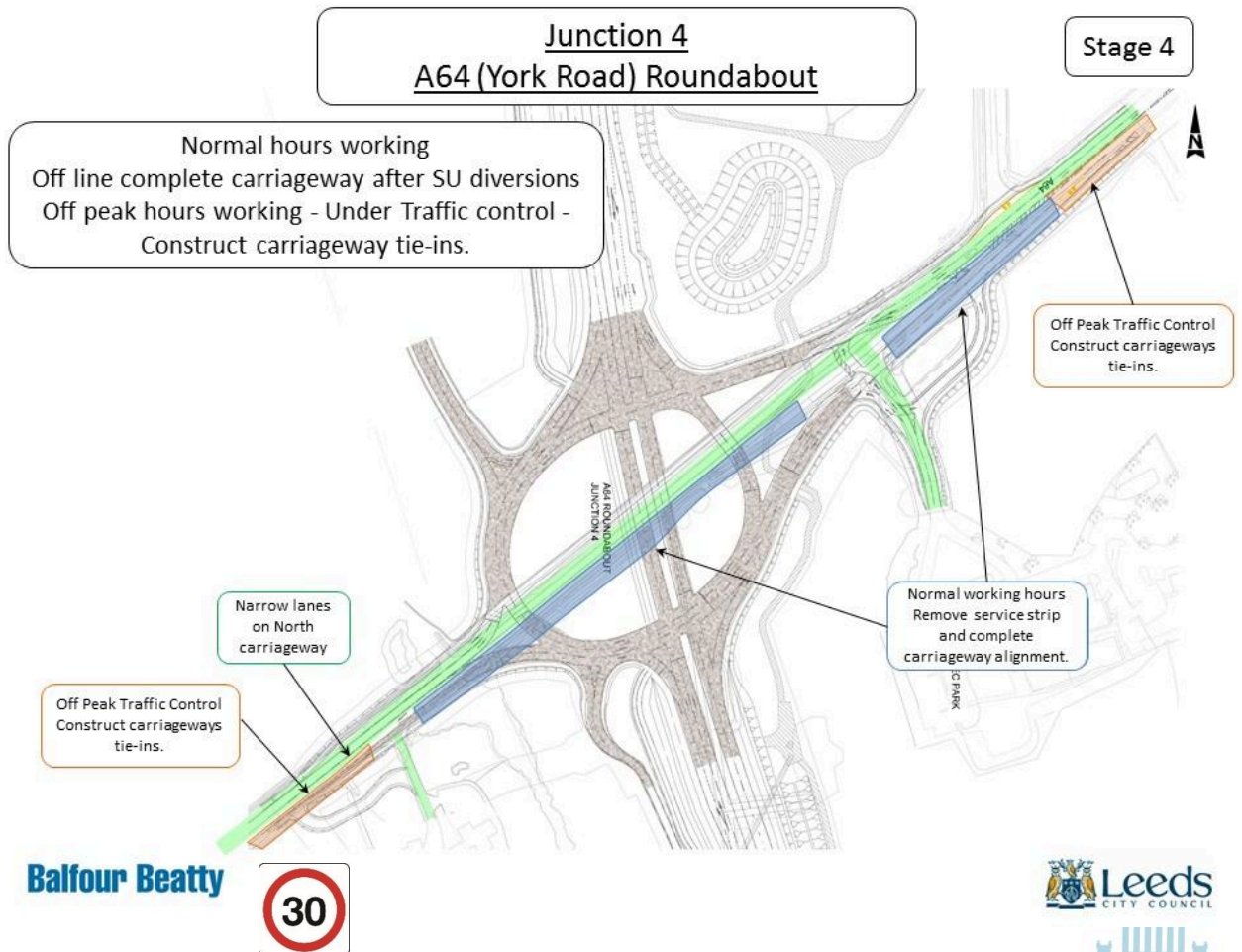
Stage 3 – SU Service Diversions

- Traffic realigned to run under narrow lanes on north side of the carriageway.
- Thorner Lane to remain open.
- Mortec Park access maintained.
- Off peak traffic lights required at tie-in points for SU service utilities and connections.



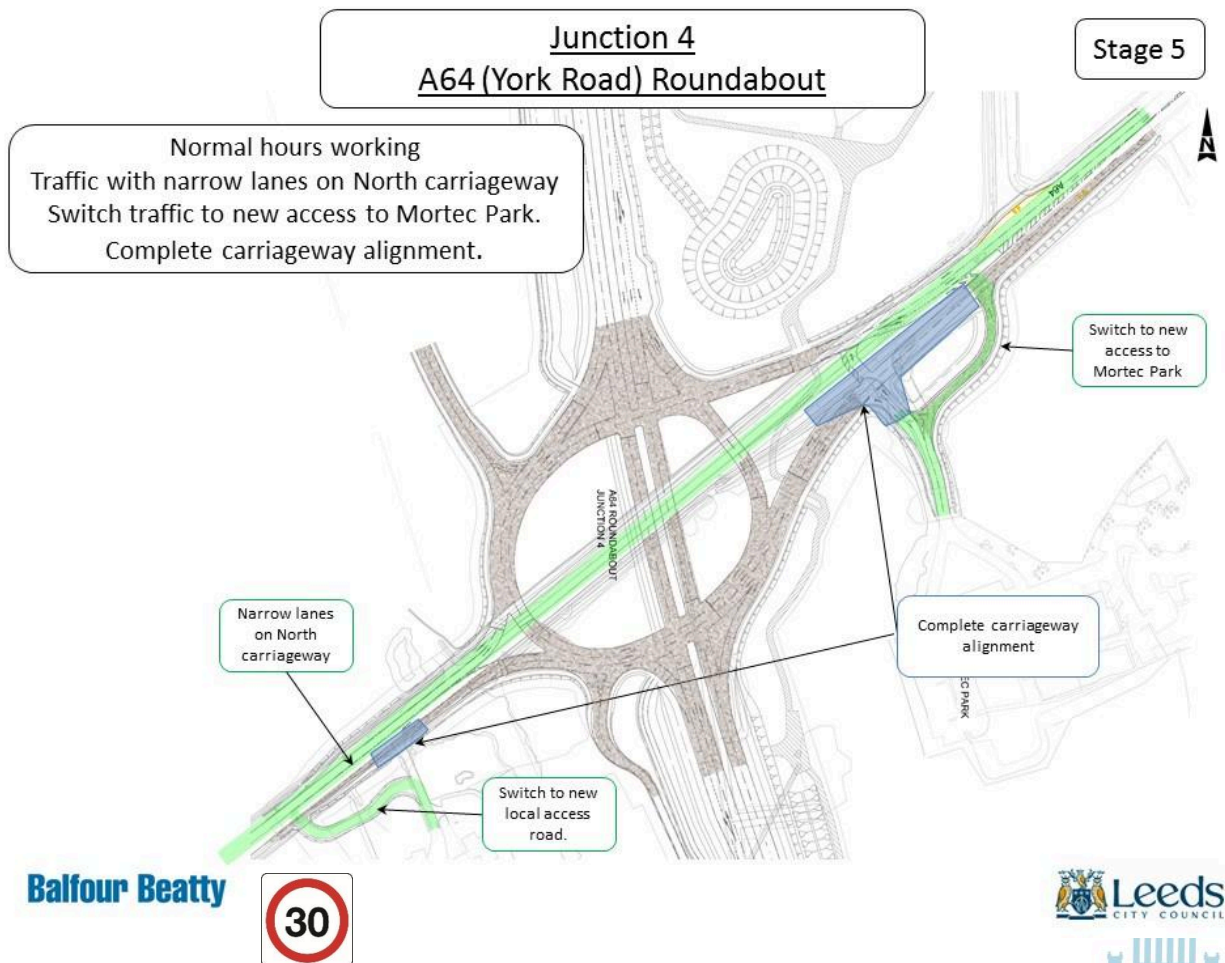
Stage 4 – Tie-in to Existing Rd

- Traffic realigned to run under narrow lanes on north side of the carriageway.
- Thorner Lane to remain open.
- Mortec Park access maintained.
- SU service utility works complete allowing completion of the South carriageway.
- Off peak traffic lights required at carriageway tie-ins.



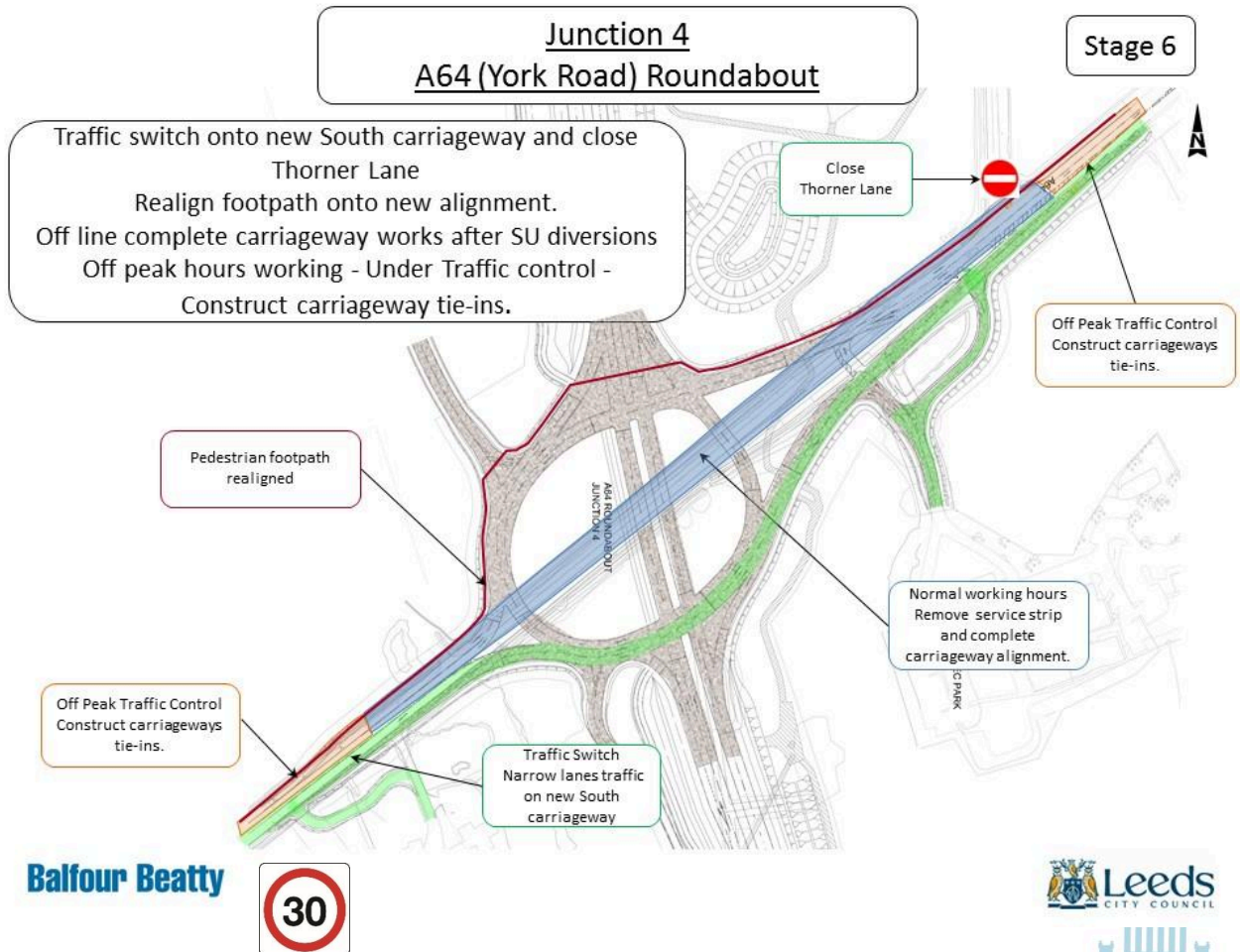
Stage 5 – Relocate local access

- Traffic realigned to run under narrow lanes on north side of the carriageway.
- Thorner Lane to remain open.
- Mortec Park and Morwick Farm accesses to switch to new alignment.
- This allows completion of the south carriageway.



Stage 6 – Tie-in to Existing Rd

- Traffic realigned onto new south carriageway.
- Thorner Lane be closed permanently.
- Footpath to be realigned onto north side of new roundabout.
- Completion of north carriageway with off-peak traffic lights required at carriageway tie-ins.



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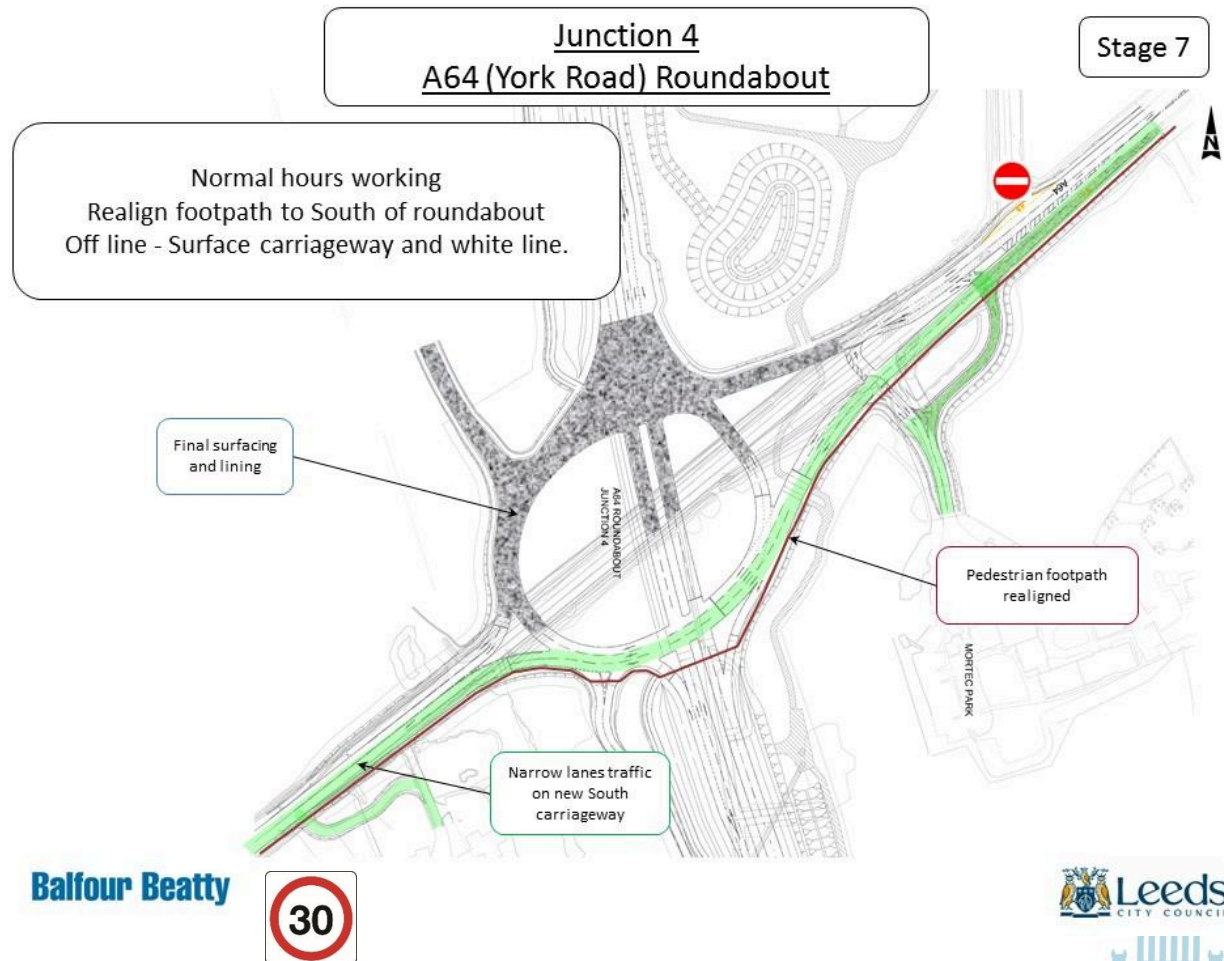


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Stage 7 – Final Surfacing

- Traffic on new south carriageway.
- Thorner Lane be closed permanently.
- Footpath to be realigned onto south side of new roundabout.
- Final surfacing and white lining to north side of roundabout.



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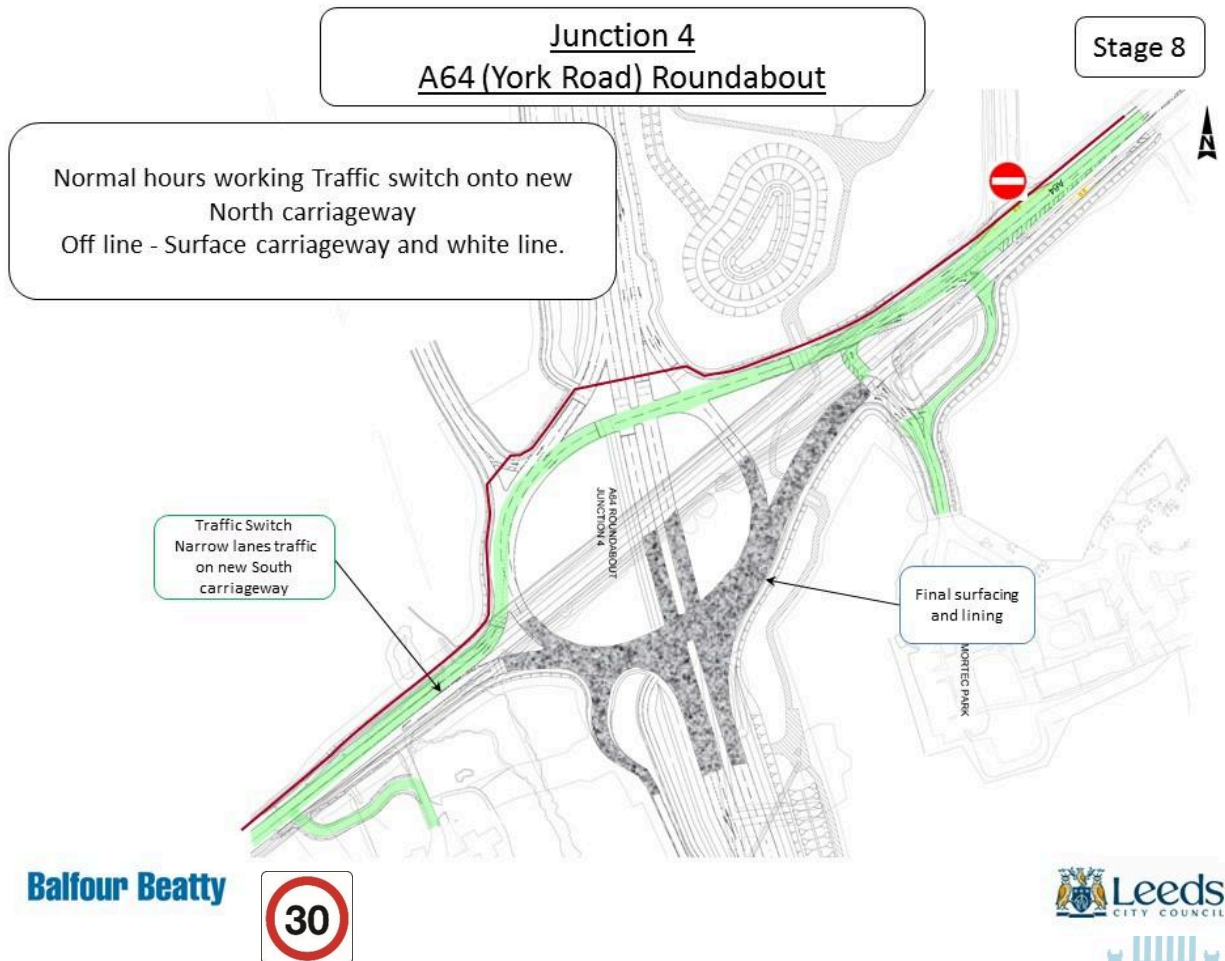


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Stage 8 – Final Surfacing

- Traffic realigned onto new north carriageway.
- Thorner Lane be closed permanently.
- Footpath to be realigned onto north side of new roundabout.
- Final surfacing and white lining to south side of roundabout.



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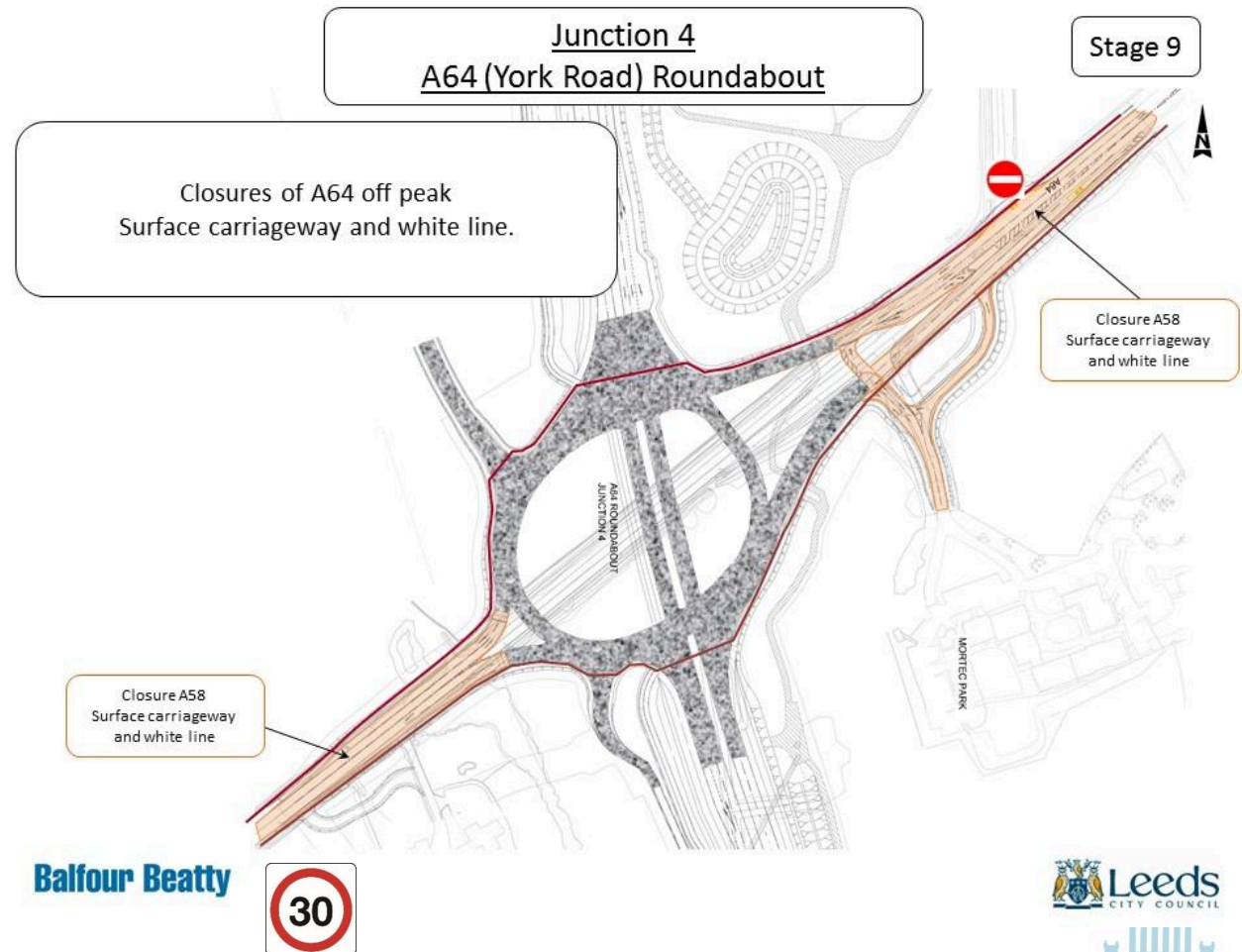


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Stage 9 - Tie-in Surfacing

- Off peak closure of A64 required to complete surfacing and white lining at tie-ins.
- Closures kept to a minimum by undertaking off line surfacing in stages 7 and 8.





Ch.5040-5160 Barwick Road Roundabout



Ch.5040-5160

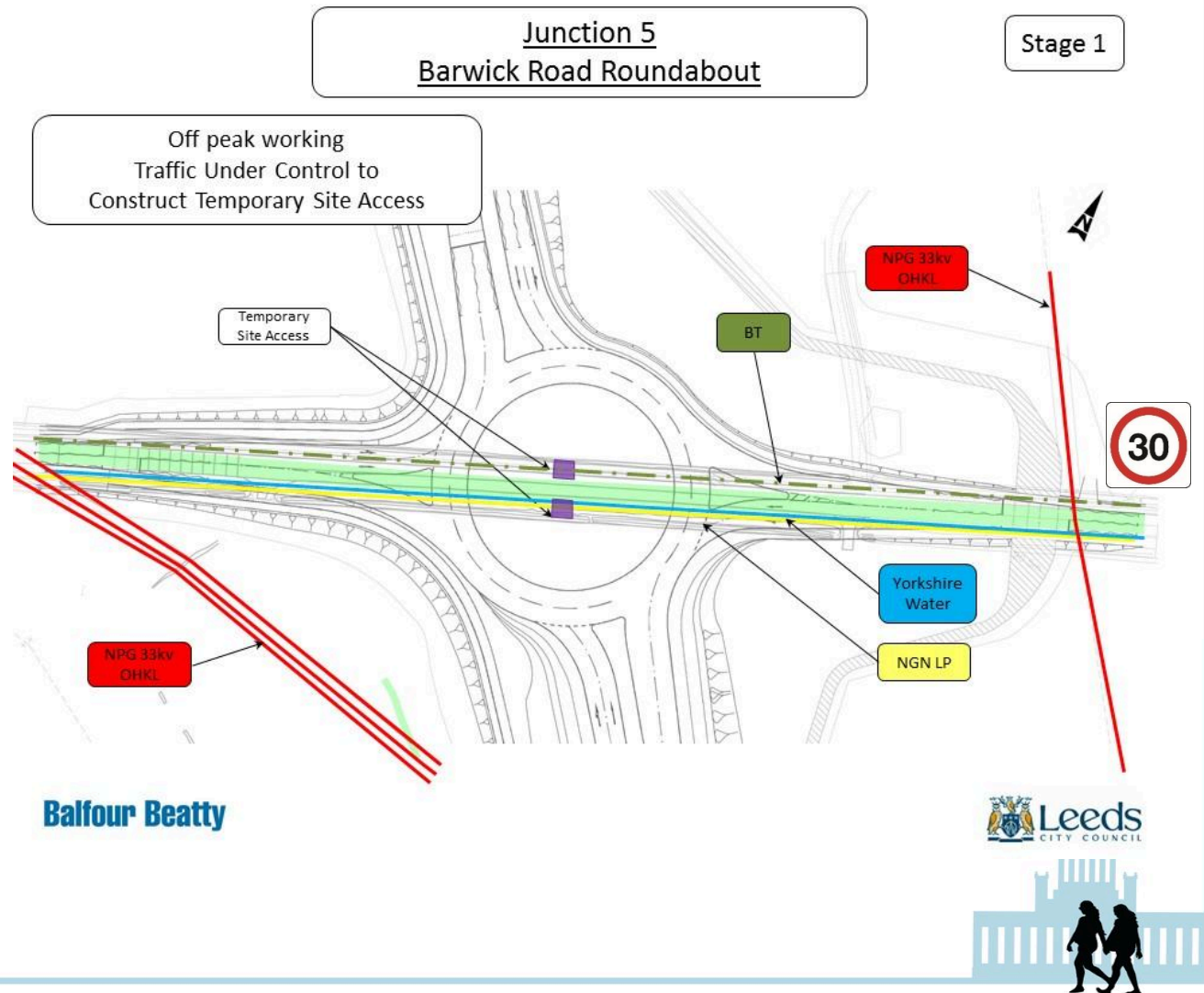
Barwick Rd R/ abt

- Road crossing for construction traffic due to earthworks material movements
- Offline construction for extensive SU service utilities diversion works
- Road speed limit reduced to 30mph
- 2 Way traffic signals for tie-ins to existing carriageway works
- Divert traffic onto south side of new roundabout for online works
- Minimum closures – final surfacing
- Pedestrian access maintained through the works via local diversions to suit phasing of the works.
- Access for Wood Lane footbridge structure



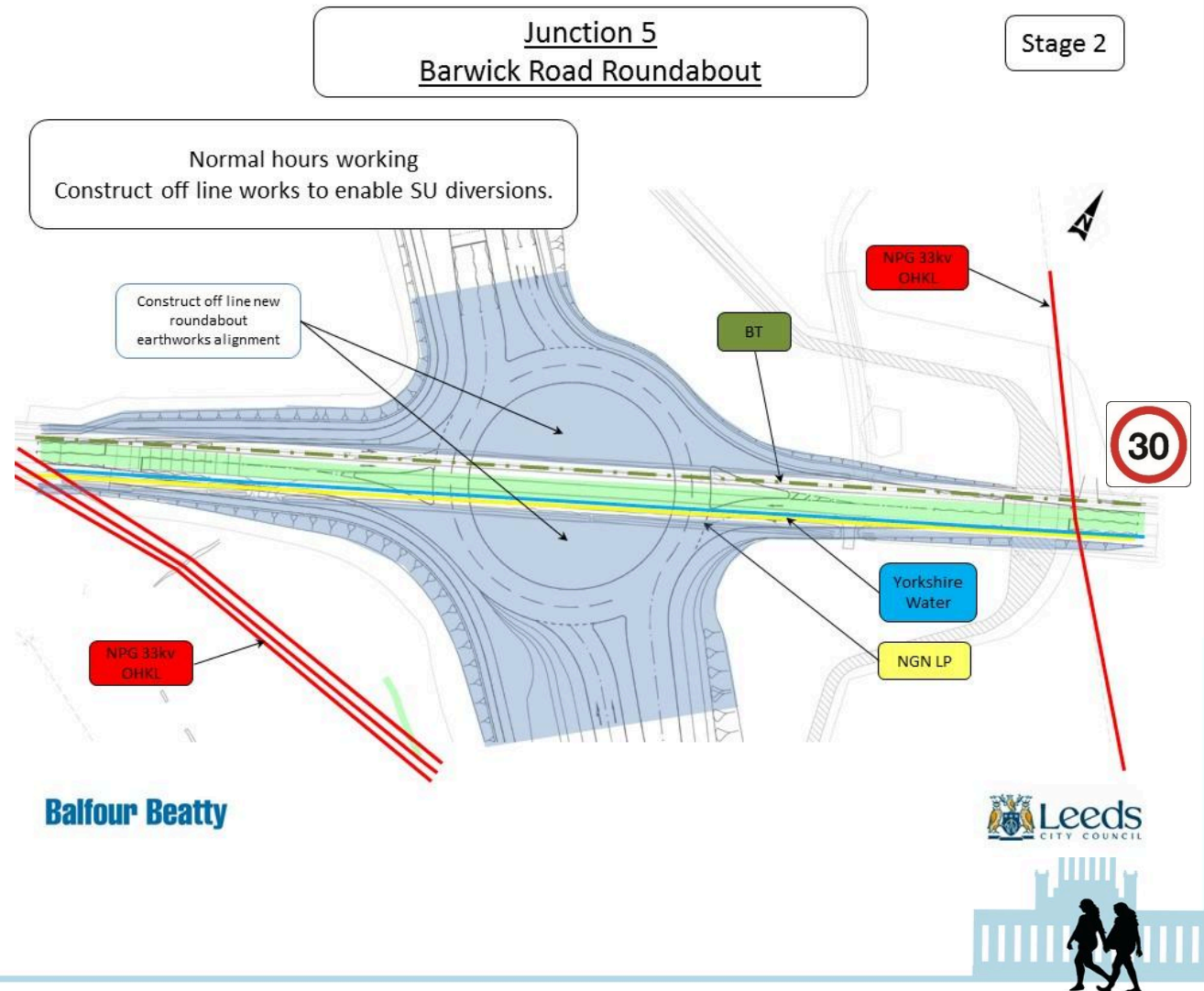
Stage 1 – Temp Site Access

- Temporary access points - protection for existing SU service utilities.
- Temporary access/road crossing points – Earthworks movements from other sections of the new works
- Traffic to remain on current alignment.
- Pedestrians remain on north side.



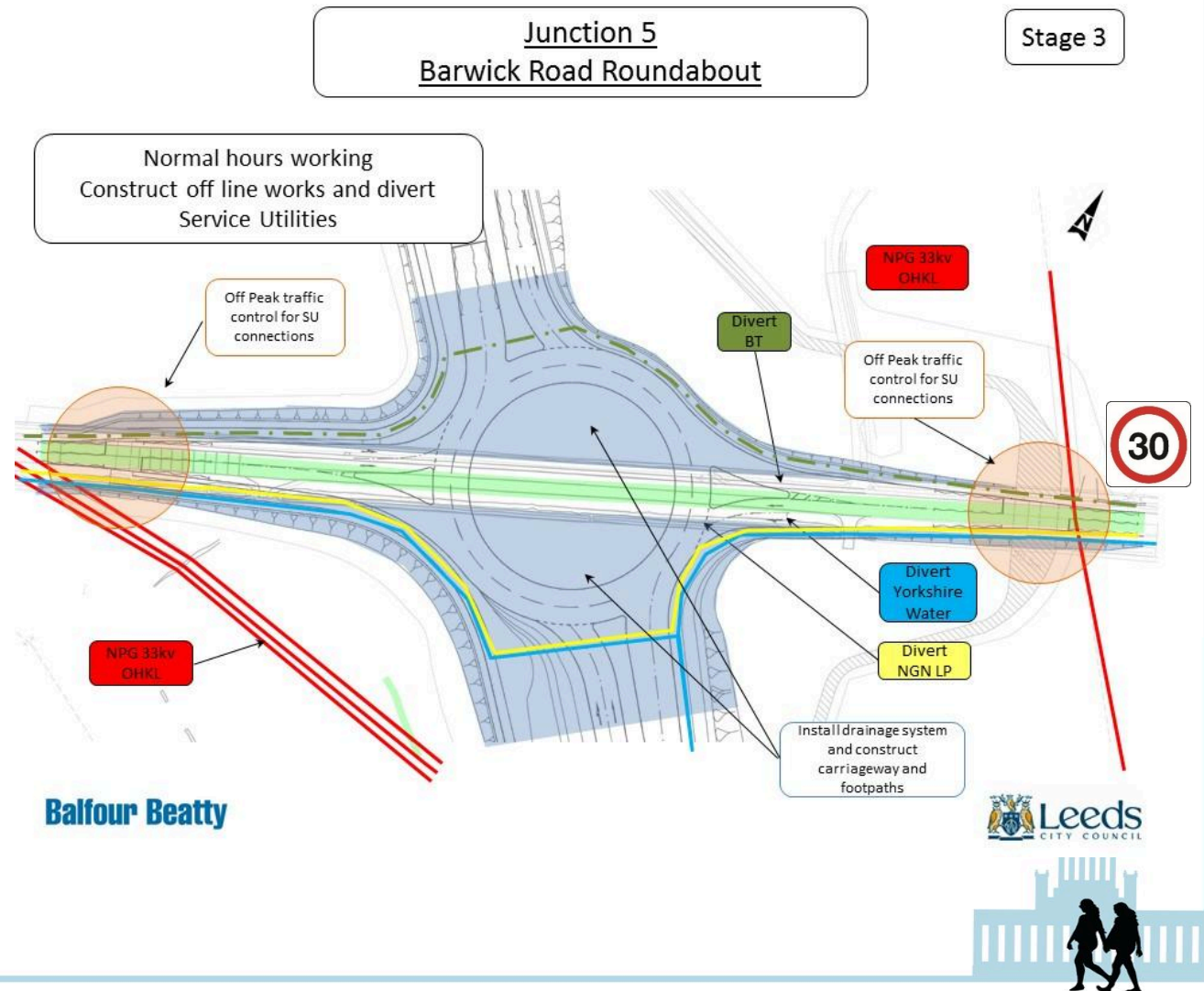
Stage 2 – Offline Works

- Construct offline new roundabout earthworks to enable SU service utilities diversion works
- Traffic maintained on existing alignment.
- 2 way traffic signals for tie-in works adjacent to existing carriageway.
- Pedestrians remain on north side.



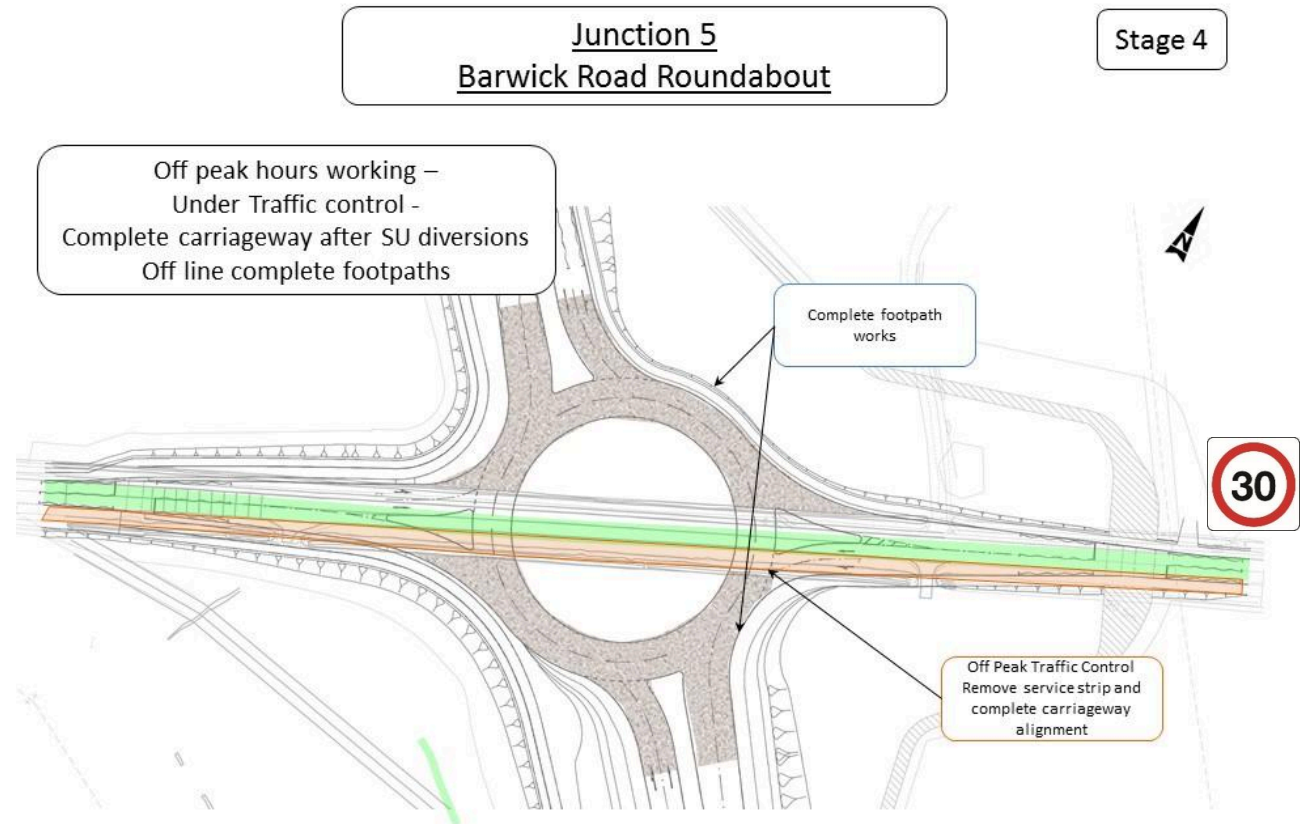
Stage 3 – SU Diversion Works

- Complete SU service utilities diversion works offline and online service connections.
- 2 way traffic signals for SU service utilities connection works.
- Construct carriageway and footpath works offline



Stage 4 – Online Service Strip

- Complete offline footpath works.
- 2 way traffic signals to complete online service strip once SU service utilities have been diverted



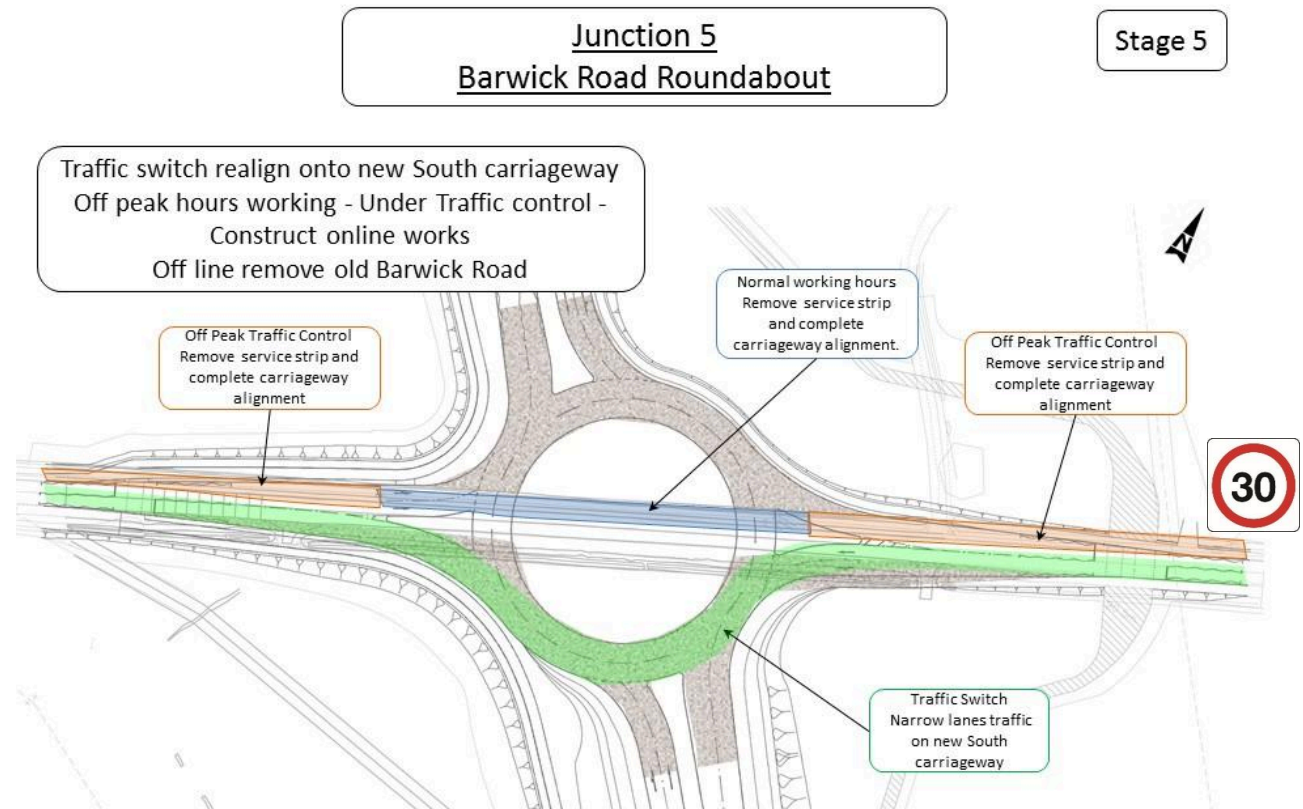
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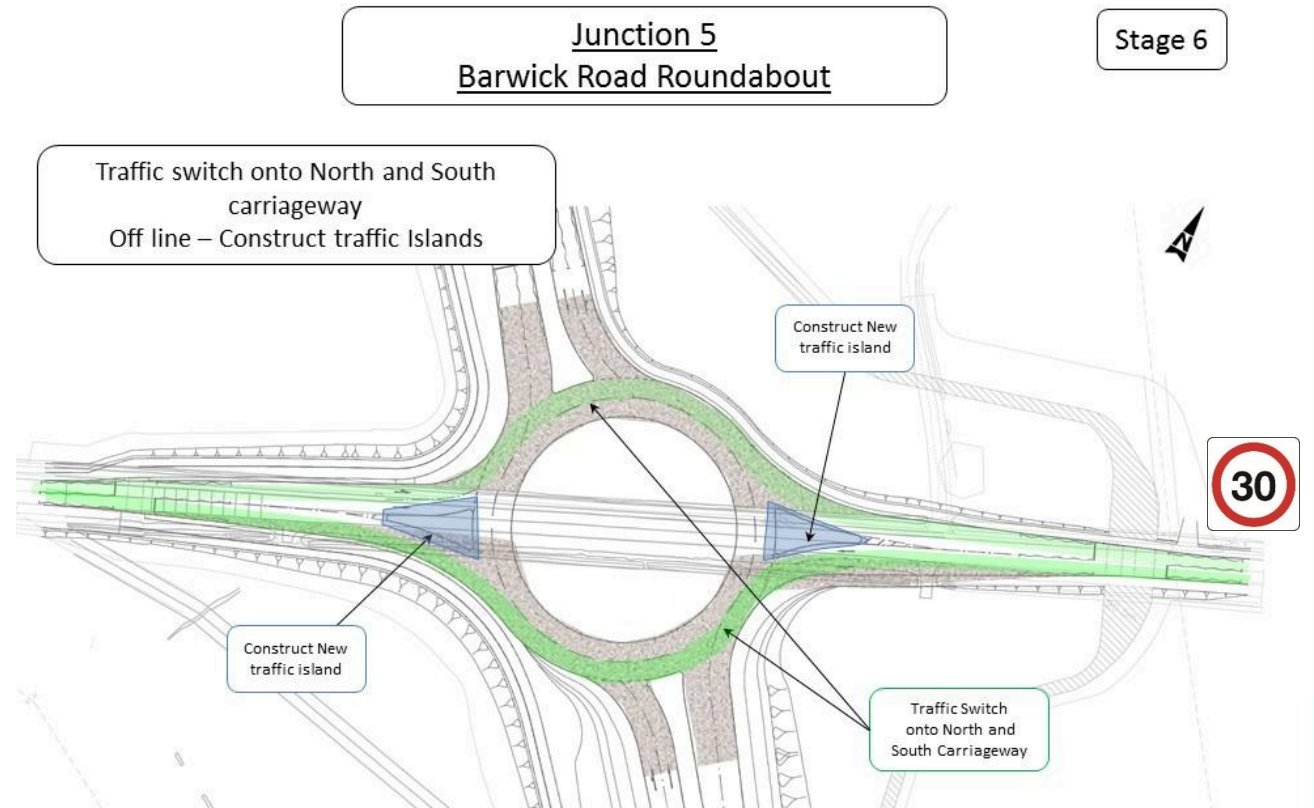
Stage 5 – Tie-in Works

- Switch 2 way traffic onto new carriageway using narrow lanes on south side of roundabout.
- Remove service strip to centre of roundabout and complete carriageway construction.
- 2 way traffic signals to complete tie-in works.



Stage 6 – Traffic Islands

- Reduce roundabout to single lane to each side of roundabout for through traffic only to construct traffic islands



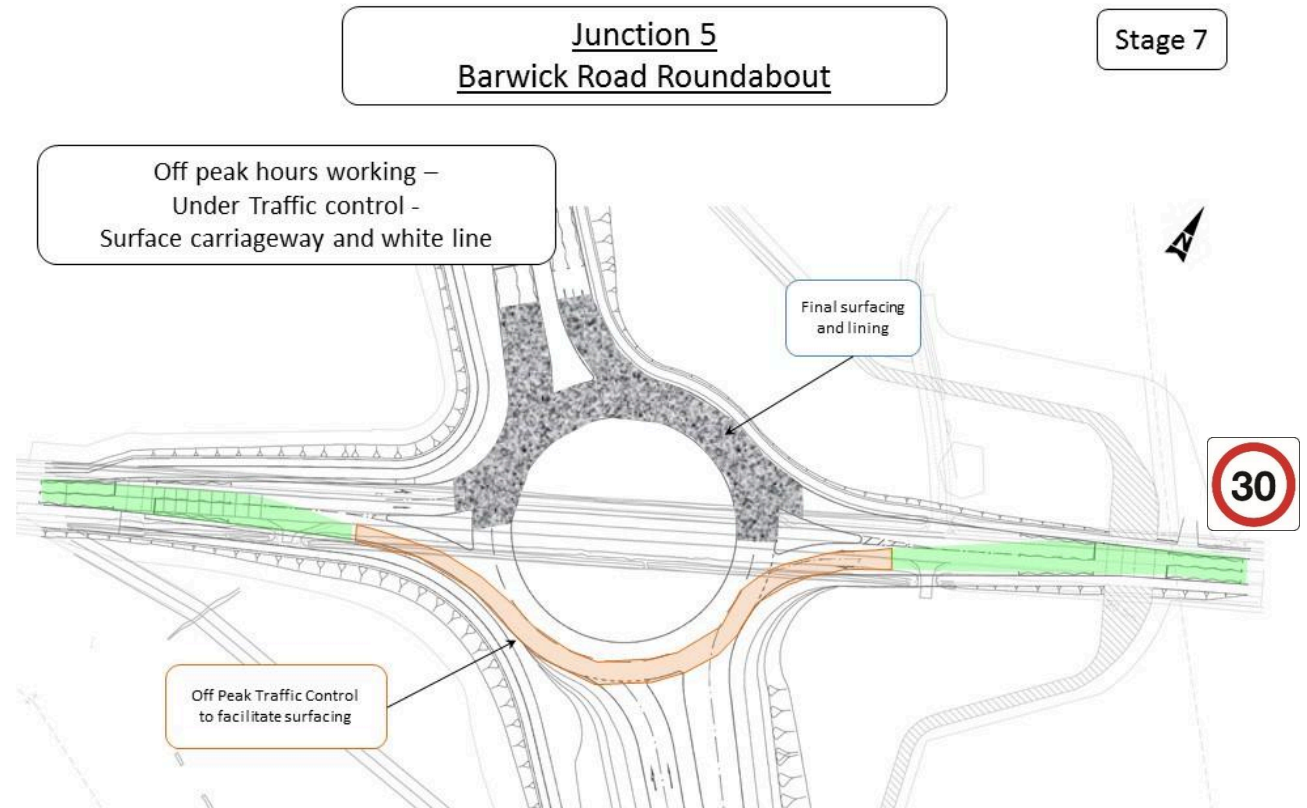
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Stage 7 – Final Surfacing

- Off peak traffic control
- Live traffic to south side of new roundabout
- Maximise working area to the north for final surfacing works



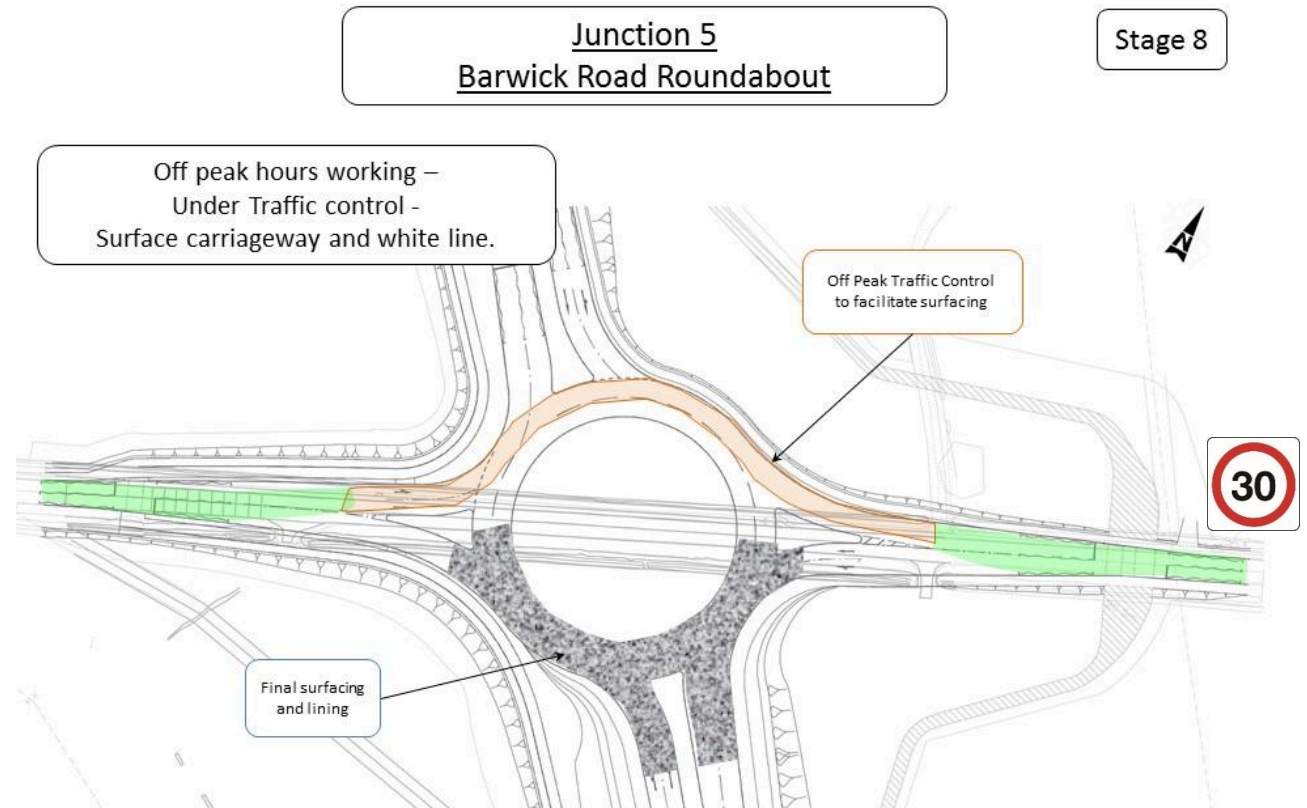
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Stage 8 – Final Surfacing

- Traffic management switch to maximise working area to the south for final surfacing works
- Off peak traffic control
- Live traffic to north side of new roundabout



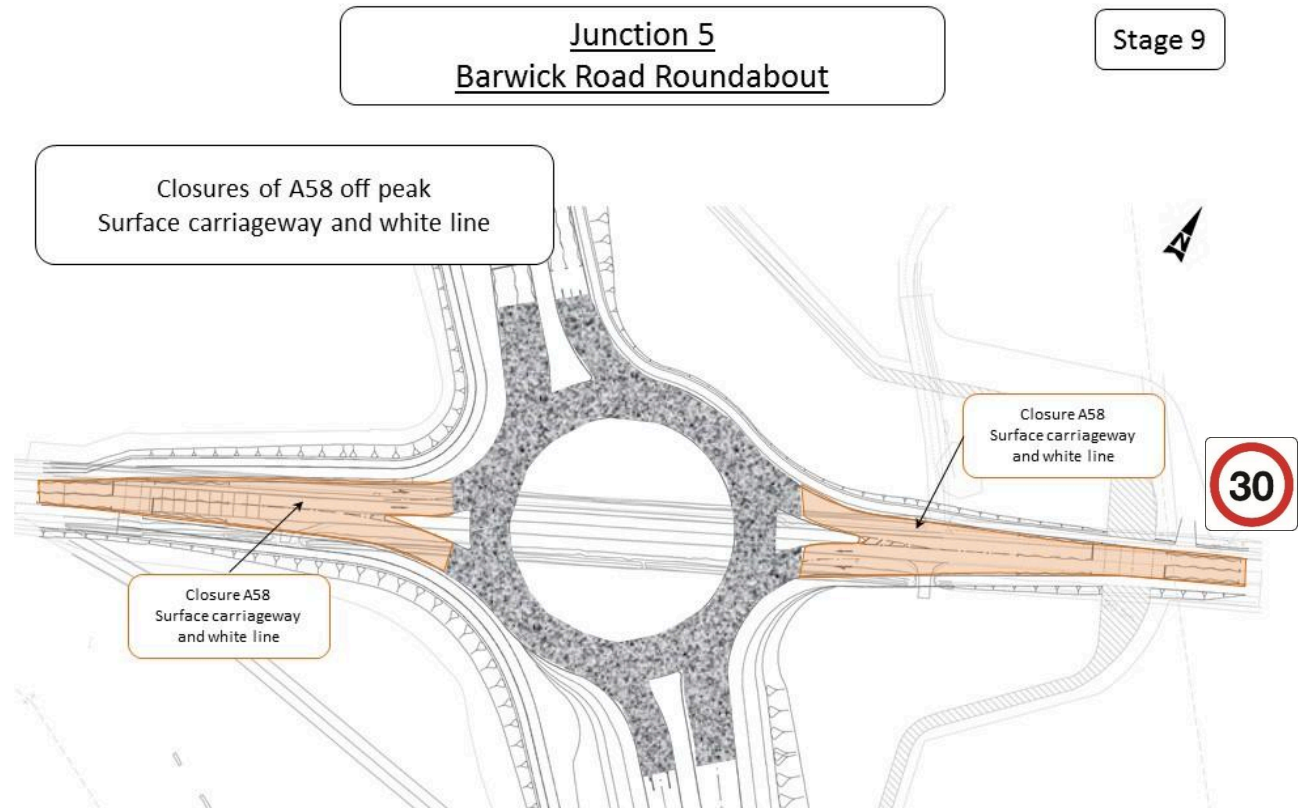
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Stage 9 – Final Surfacing

- Short term closure to complete final surfacing to tie-in with Barwick Road



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Ch.6770 Manston Ln Tie-In

- Tie-in to newly constructed roundabout on Manston Lane
- Temp access west of proposed road whilst new embankment constructed
- Early access to structures and ground improvement locations.
- SU service utilities diversion local to existing roundabout
- Public Rights of Way – Alternative routes



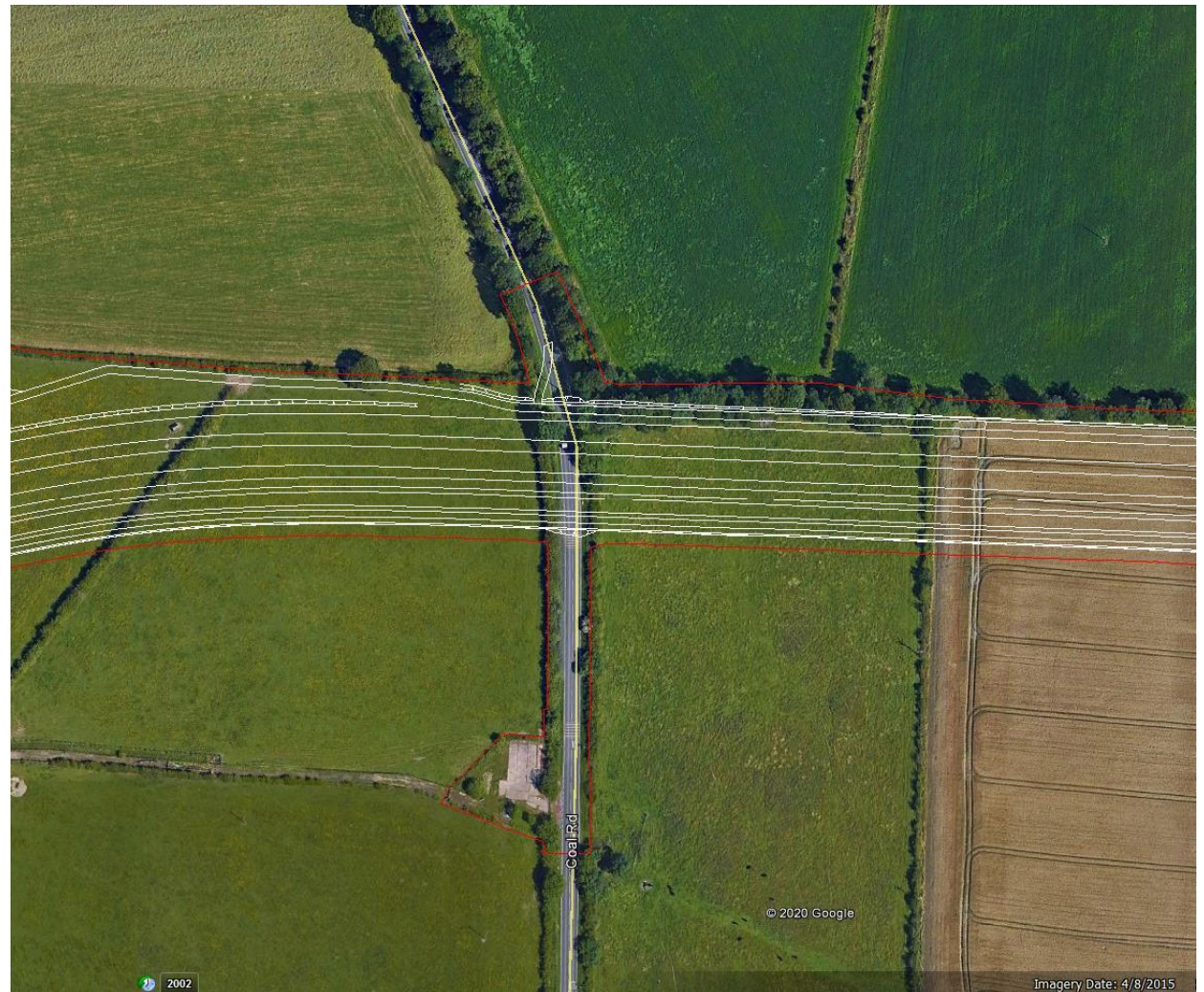
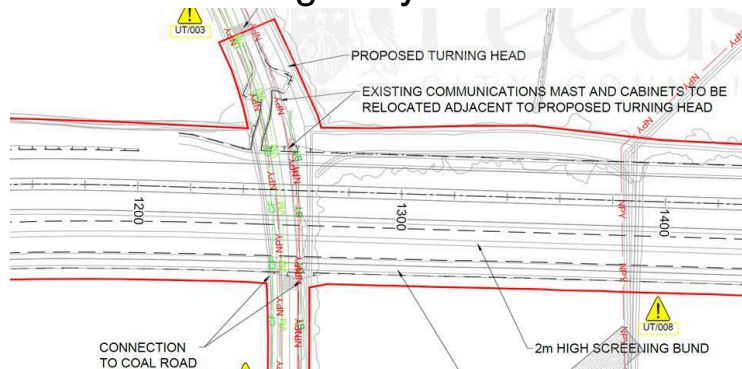


Closure of Coal Road & Thorner Lane



Coal Road

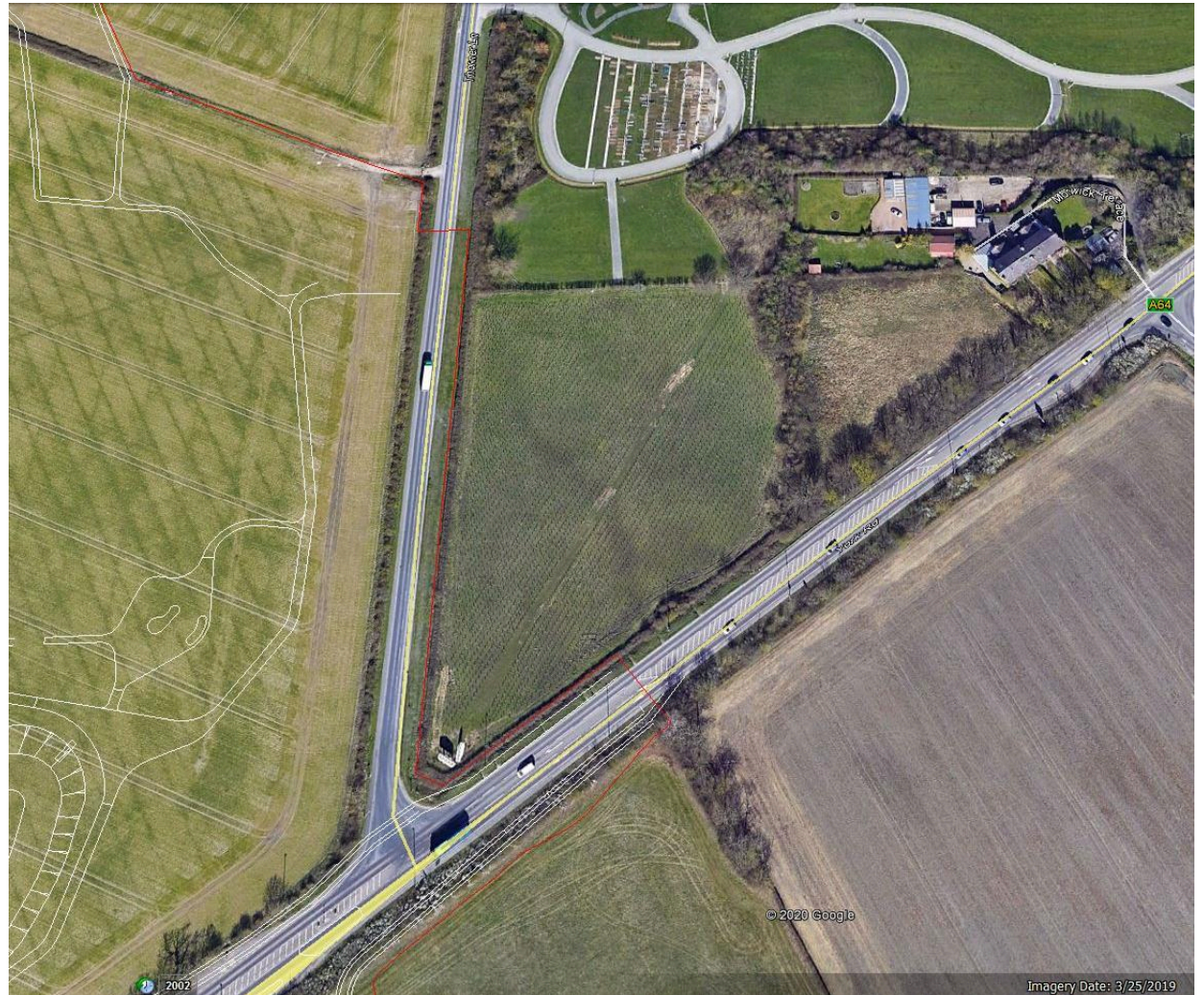
- Only close when necessary
- Multiple SU service utilities diversions, new and slew/lower existing. Temporary lane or full closures maybe required once more detailed information is received from the Stat's Undertakers.
- New carriageway construction



RM 1 Carriageway construction May 2021
Redmond, Martin, 24/02/2020

Thorner Lane

- Only close as necessary
- Multiple SU service utilities diversions, working room at SU service tie-in locations to be confirmed
- New carriageway construction
- Carriageway tie-in location
- Location of bus layby
- Access option for large sized deliveries for bridge structures to the north.



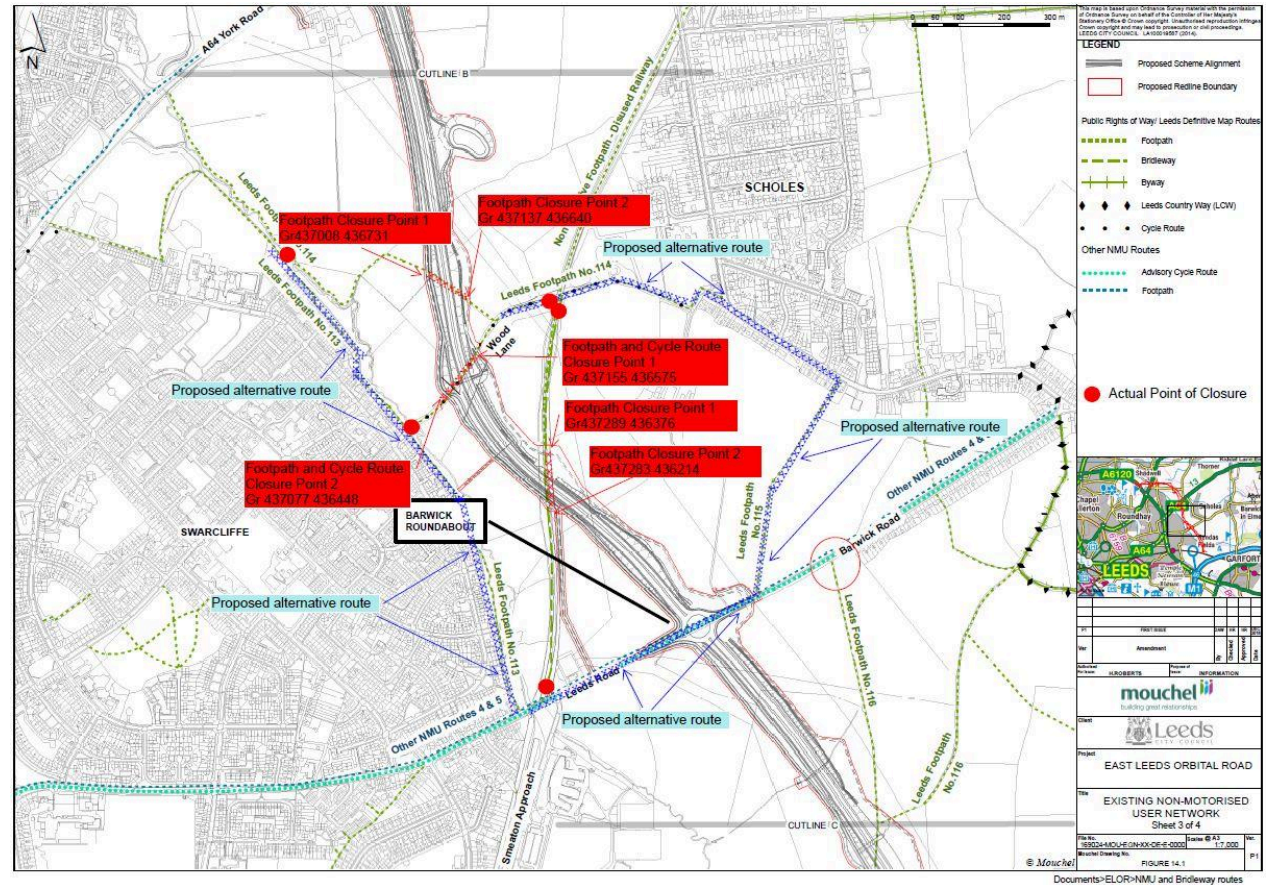


Public Rights of Way

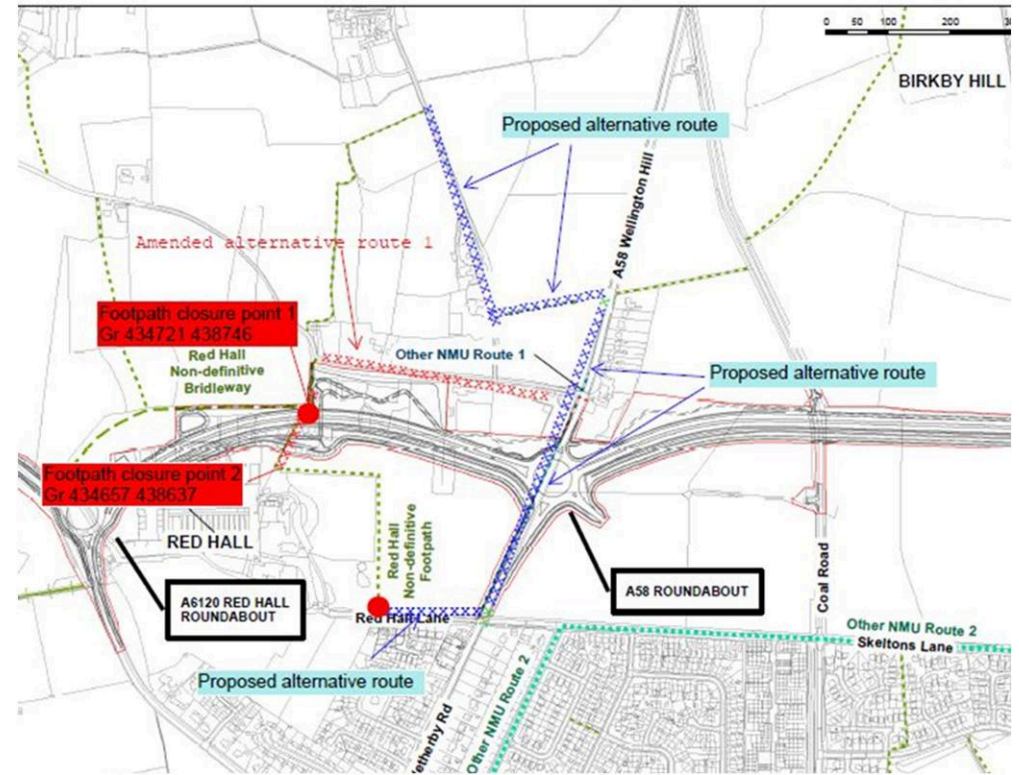


Temporary footpath closures

- Footpaths will not be closed until works are being undertaken in that area.
- Closure of footpaths expected to be on a rolling programme of closures from April – June until completion of project.
- Permanent routes – Footbridges
- Advanced notification signs where the public rights of way leave the roadside.
- Regular inspections of signs

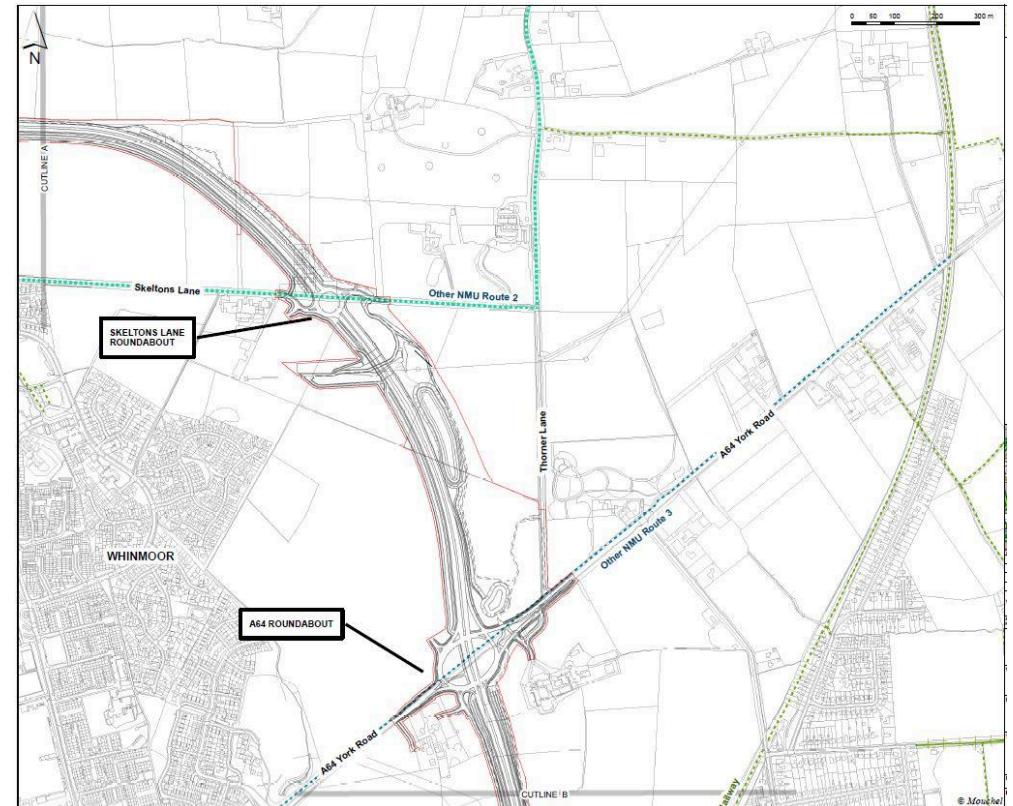


A6120 Redhall to A58



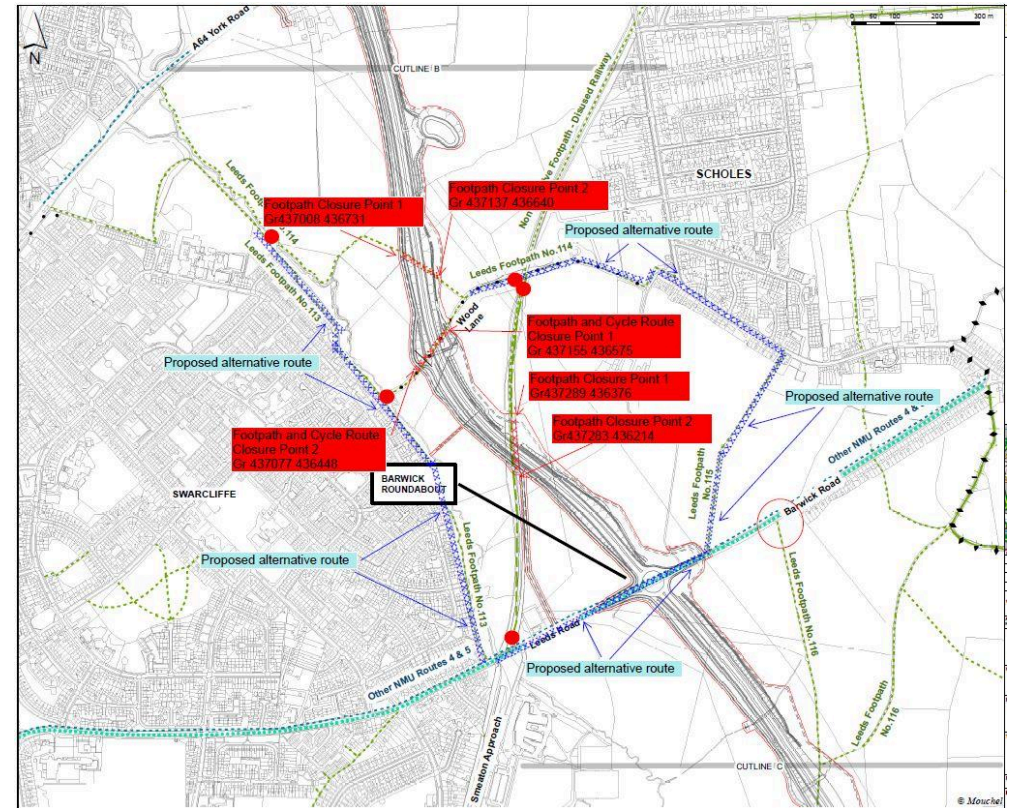
- Temporary closure & diversion route using alternative routes where existing PROW crosses the new carriageway
- Footpaths at junction locations will be managed with local footpath diversions

Skeltons Lane to A64



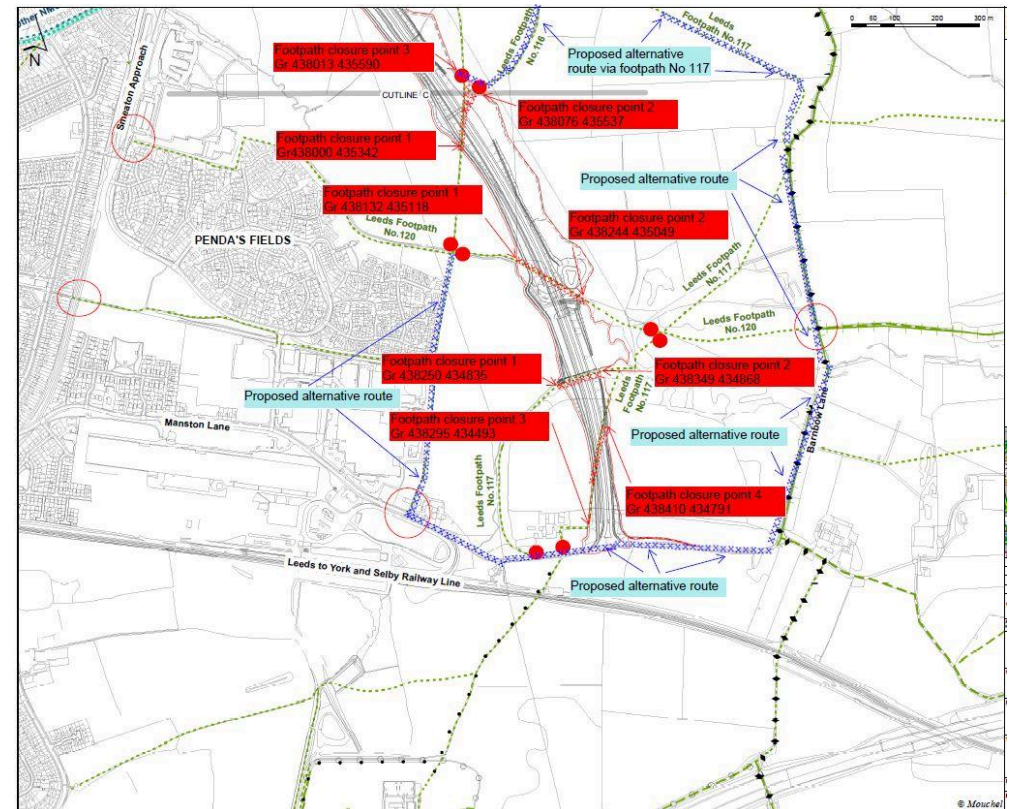
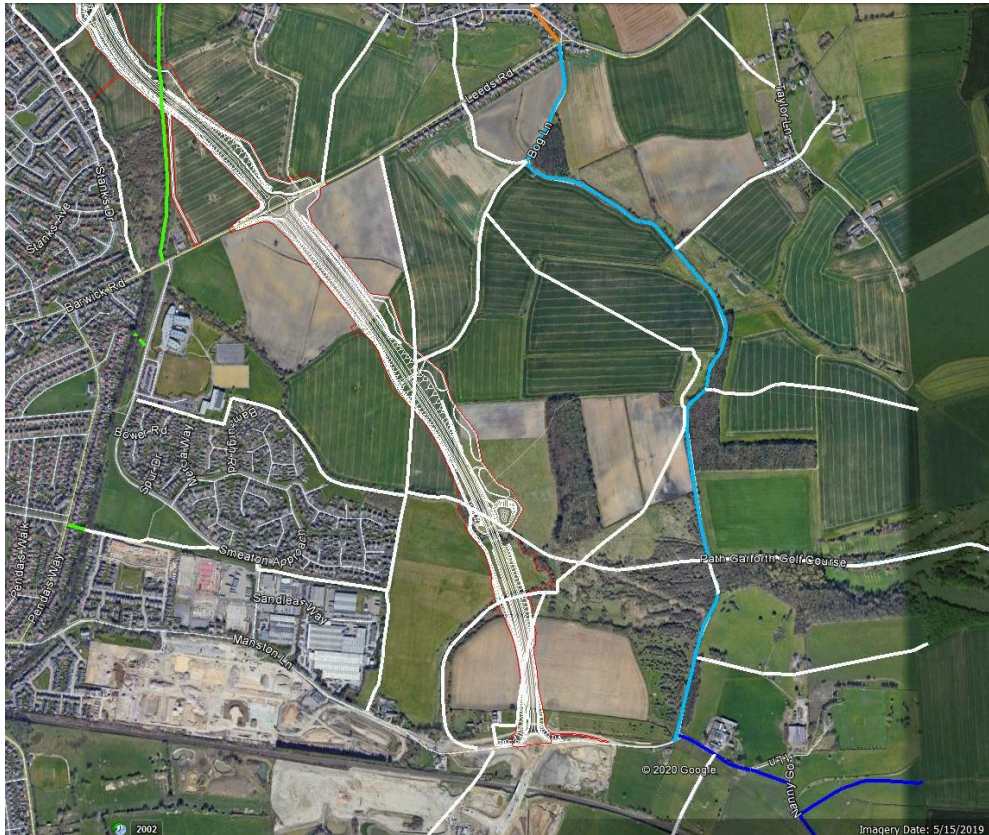
- Footpaths at junction locations will be managed with local footpath diversions

A64 to Barwick Road



- Temporary closure & diversion route using alternative routes where existing PROW crosses the new carriageway
- Footpaths at junction locations will be managed with local footpath diversions

Barwick Rd to Manston Lane



- Temporary closure & diversion route using alternative routes where existing PROW crosses the new carriageway
- Footpaths at junction locations will be managed with local footpath diversions



Contact
Details

Example of project scheme sign – Phase 1