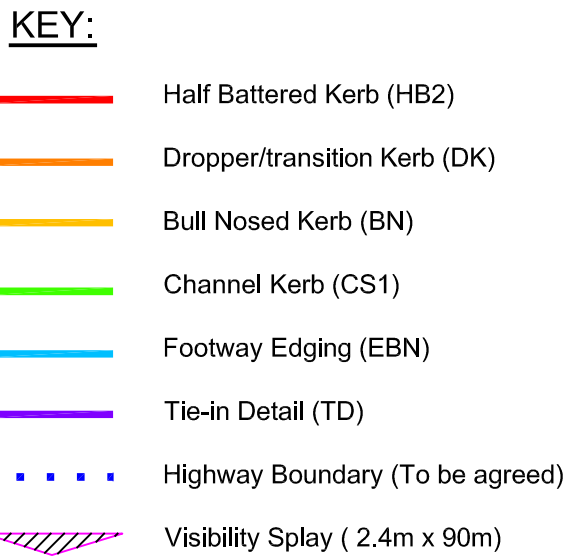




For Kerb details refer to drawing
B1305210/CE/170.009

1. Do not scale from this drawing.
2. All dimension in metres unless otherwise indicated.
3. Work to given dimensions.
4. This drawing to be read in conjunction with all other Jacobs drawings and the specification relevant to this scheme.
5. All surplus materials arising from site clearance works shall be disposed of by the Contractor.
6. The Contractor shall ensure that the site is secure from access to the general public at all times.
7. The Contractor shall limit the movement of site vehicles during peak traffic hours in order to minimise impact to local traffic.
8. Existing signage to remain throughout and to be supported where necessary.
9. All signs shall be in accordance with the Traffic Signs Regulations and General Directions 2002, published by Her Majesty's Stationary Office (HMSO)
10. All traffic signs shall comply with the current Specification for Highway Works published by The Department of Transport as Volume 1 of the Manual of Contract Document for Highway Works.
11. The position of all road signs and street furniture shall be agreed at detailed design.
12. All posts shall be galvanneal steel to BS EN ISO 1461:1999, and shall be circular hollow sections not less than 76.1mm in diameter, complying to BS 873, Part 7. The root section shall have a G1 finish. All posts shall be painted light grey unless otherwise indicated.
13. Plastic coated posts are not permitted.
14. No exposed part of any sign assembly is to be within 450mm of the carriageway edge.
15. ADS signs to be located approximately 45m in advance of the junction. Wherever practical signposts shall be located to rear of footway or in the verge.
16. No traffic sign assembly will be permitted to be attached to lighting columns, unless the lighting column and base has been specifically designed to accommodate the additional wind loading.
17. All traffic signs shall be mounted at 2.1m above ground level, unless otherwise indicated on the drawing, or in the schedule. All signs adjacent to or with cycleways shall be mounted at 2.3m
18. All signs to be fabricated from 3M DG² reflective material except yellow backing boards which shall be Class 1 reflective material. Grey backing boards, when specified, shall be non reflective.
19. All road markings shall be in accordance with the Traffic Signs Regulations and General Directions 2002, published by Her Majesty's Stationary Office (HMSO)
20. All road markings shall comply with the current Specification for Highway Works published by the Department of Transport as Volume 1 of the Manual of Contract Document for Highway Works.
21. The position of all road markings shall be agreed at detailed design.
22. Road markings shall be white thermoplastic material Class A to BS EN 1824:1998, rectorified with solid glass beads complying to BS EN 1423:1998.
23. Road markings shall be screed applied in accordance with BS EN 1824:1998, with minimum skid resistance level of 55.
24. All road marking symbols shall be performed thermoplastic and not drawn freehand.
25. All longitudinal road markings shall be extruded or screed applied, spray applied markings will not be permitted.
26. All works on existing highway subject TSM Chapter 8 and Local Authority requirements.
27. All works to existing highway subject to S278 Agreement with the Local Highway Authority.
28. Tactile paving at crossing points to be provided subject to Local Highway Authority requirements and Section 278 Agreement.
29. Proposed levels and drainage subject to detail design.
30. Protection of existing surfaces subject to Statutory Undertakers requirements.

Existing junction and footway to remain

Double sided Directional Sign wording and location to be confirmed with Client/Highway Authority

Give Way Sign

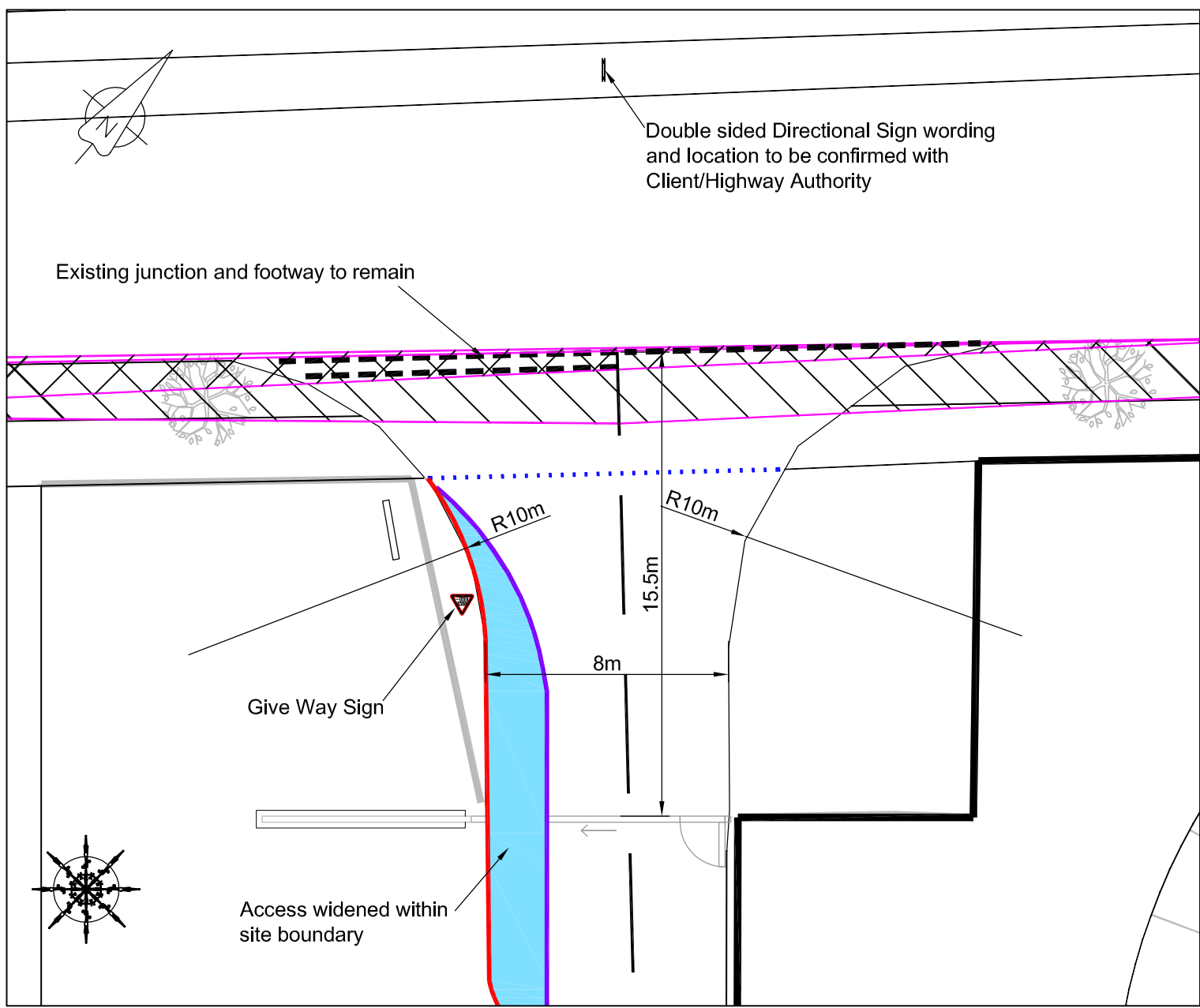
6m

10m

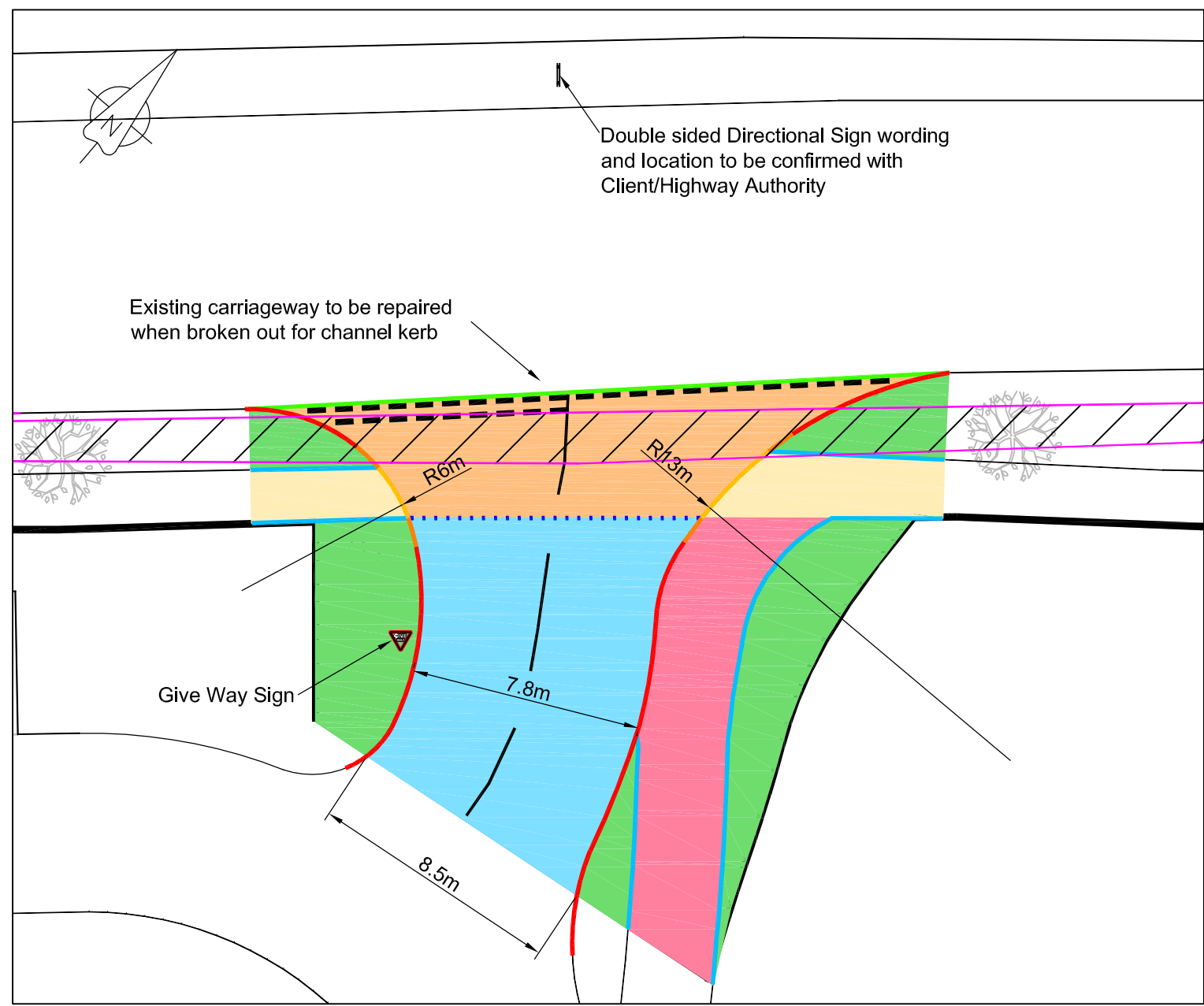
R4 25m

R4 25m

JUNCTION 1 DETAIL
(AS EXISTING)
SCALE 1:200



JUNCTION 2 DETAIL
(AS EXISTING WITH WIDENING WITHIN SITE)
SCALE 1:200



JUNCTION 3 DETAIL
SCALE 1:200

	Bituminous Carriageway				
Layer	Clause	Material	Binder	Thickness	Special Requirements
Surface Course	912	Close Graded Surface	100/150	45mm	0/14mm Aggregate to BS 4987 Cl 7.3 Min PSV 60 (AC 14 Close Surf 100/150 PSV 60 to BS EN 13108)
Binder Course	906	Dense Macadam Binder	100/150	60mm	0/20mm Aggregate To BS 4987 Cl 6.5. (AC 20 Dense Bin 100/150 to BS EN 13108)
Base Course	906	Dense Macadam Base	100/150	90mm	0/32mm Aggregate To BS 4987, Cl 5.1. (AC 32 Dense Base/Bin 100/150 to BS EN13108)
Sub-base	803	Type 1	N/A	255mm	Refer to Table for Capping and Sub-base requirements (CBR values and Capping requirements to be confirmed at formation by Contractor testing)
Capping	613	6F	N/A	TBC	
Geotextile Membrane	N/A	Terram Nonwoven	N/A	N/A	

	Resin Bonded Footway				
Layer	Clause	Material	Binder	Thickness	Special Requirements
Surface Course	909	Resin Bonded Gravel on dense surface course	100/150	5 mm / 20mm	Resin Bonded Gravel specification to be agreed BS 4987; Pt 1: Cl 7.5 0/6mm Aggregate (AC 6 Dense Surf 100/150 to BS En 13108)
Binder Course	906	Dense Macadam Surface	100/150	20 mm	BS 4987; Pt 1: Cl 6.5 0/20mm Aggregate (AC 20 Dense Bin 100/150 to BS-EN 13108)
Base	—	—	—	—	—
Sub-base	803	Type 1	N/A	150 mm	Sub-base thickness to be increased to 200mm at vehicle crossovers
Capping	613	6F	N/A	TBC	Refer to Table for Capping requirements (CBR values and Capping requirements to be confirmed at formation by Contractor testing)

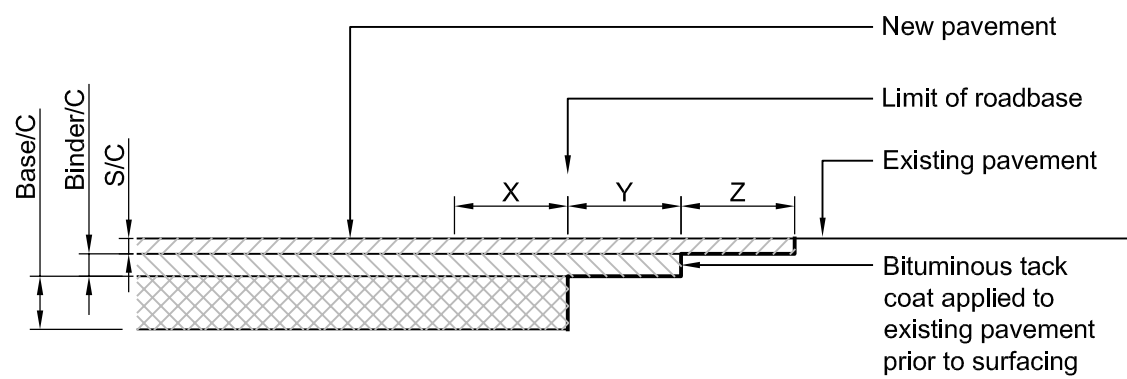
 Verge / Margin

150mm Topsoil Class 5B SHW
(To be confirmed with Landscape Architect)

Capping Thickness
(In accordance with DMRB HD 25/94)
If required.

CBR	Capping	Sub-base only
< 2.0%	600mm	150mm
2.0 - 5.0%	350mm	150mm
>5.0%	0mm	255mm

Capping Material 6F1 / 6F2 or 6F4 / 6F5
to SHW Table 6.1



TIE - IN DETAIL
SCALE 1:20

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following :

- Contractor to maintain adequate traffic/pedestrian management on live site.
- Contractor to maintain adequate traffic/pedestrian management on existing highway. All traffic management and Chapter 8 requirements are to be agreed with the Local Highway Authority.
- All buried services to be marked out, prior to start of works
- Contractor to ensure that work is conducted in accordance with the HSE Document Avoiding Danger from Underground Services.
- Ensure all trenches are adequately supported and or the sides of all trenches stepped/battered in accordance with up to date HSE legislation
- Ensure all hot surfacing works to be undertaken by specialist surfacing contractor and a safe system of work employed
- Follow manual handling regulations when lifting heavy construction materials

- Ensure adequate future maintenance regime is established
- Follow manual handling regulations when lifting heavy construction materials
- Do not excavate adjacent to utilities unless absolutely required.
- Implement adequate maintenance regime in order to ensure the integrity and skid resistance of vehicle and pedestrian areas

- Consult project Building Maintenance Manual / Health and Safety File before carrying out excavation / site clearance next to building and retaining structures.

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

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P0	23.07.2015	PLANNING ISSUE	N.W.	J.P.	J.P.	D.H.
Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Rev'd	Apprv



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Client

POLICE AND CRIME
COMMISSIONER OF NORTH WALES

Project EASTERN COMMAND AND
CUSTODY FACILITY

PROPOSED HIGHWAY JUNCTION DETAIL LAYOUTS

Drawing title

Drawing status	PLANNING ISSUE
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Scale	As Shown @ A1	DO NOT SCALE
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Jacobs No.	B13055210
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Drawing number
B1305210/CE/170.010

Rev
P0

This drawing is not to be used in whole or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.