

East Anglia ONE
Offshore Windfarm

East Anglia ONE Offshore Windfarm

Highway Improvements and
Access Management Plan - Substation
DCO Requirements 14 & 25 (c)
Work No 38 to 41
Final for Discharge

ID: EA1-CON-R-IBR-022981

Created by / date: IEC / 20th March 2017

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REVISION CONTROL

Revision and Approvals					
Rev	Date	Reason for Issue	Originated by	Checked by	Approved by
0	12-12-2016	Final for review	IEC	CD	AC
1	26-01-2017	Final for Approval	IEC	CD	RM
2	21-03-2017	Final for Discharge updated following SCC comments	IEC	CD	RM

Abbreviations

AC	Alternating Current
CfD	Contract for Difference
DECC	Department for Energy and Climate Change
DC	Direct Current
DCO	Development Consent Order
EAOL	East Anglia One Limited
EA ONE	East Anglia One Offshore Wind Farm
HI&AP	Highway Improvements and Access Management Plan
MW	Megawatts
SCC	Suffolk County Council
SPR	ScottishPower Renewables

1.Introduction

1.1 Project Overview

1. East Anglia ONE Limited (EAOL), was awarded a Development Consent Order (DCO) by the Secretary of State, Department of Energy and Climate Change (DECC) on June 17th 2014 for East Anglia ONE Offshore Wind Farm (EA ONE). The DCO granted consent for the development of a 1200MW offshore windfarm and associated infrastructure.
2. In February 2015 EAOL secured a Contract for Difference (CfD) award to build a 714MW project and Scottish Power Renewables announced its role in leading East Anglia ONE towards construction. In April 2015 EAOL submitted a non-material change application to DECC to amend the consent from direct current (DC) technology to alternating current (AC). In March 2016, DECC authorised the proposed change application and issued a Corrections and Amendments Order.
3. This plan relates to the onshore construction works associated with EA ONE, which based on the AC technology with a capacity of 714MW and transmission connection of 680MW, comprises;
 - A landfall site at Bawdsey, Suffolk
 - Up to six underground cables, approx. 37km in length
 - Up to four cable ducts for future East Anglia THREE project
 - An onshore substation located at Bramford next to existing National Grid infrastructure
4. The scope of this document relates to the highway improvements and access management for the onshore substation at Bramford, referred to as Work No. 38 to 41 (Stage j) in the DCO.

1.2 Purpose and Scope

5. This Highway Improvements and Access Management Plan (HI&AP) focuses solely on the procedures for managing the impact of access to the new substation for the EA ONE onshore construction works. A separate HI&AP has been produced for the cable route (EA1-CON-R-IBR-009582) and is provided under separate cover. This HI&AP sets out the details of the localised highway improvement (HX-01) necessary to facilitate safe use of the existing road network and details of the access management measures to be installed (AX-subs) to allow safe access and egress to the substation and associated temporary compound area. This document has been produced to discharge DCO Requirements 14 and 25 (1) (c) in relation to the Work No 38 to 41 (Stage j), which state:

14.—(1) No stage of the connection works shall commence until for that stage written details(which accord with the outline access management plan) of the siting, design, layout and any access management measures for any new permanent or temporary means of access to a highway to be used by vehicular traffic, or any alteration to an existing means of access to a highway used by vehicular traffic, has, after consultation with the highway authority, been submitted to and approved by the relevant planning authority.

(2) The highway accesses for that stage must be constructed or altered and the works described in sub-paragraph (1) in relation to access management measures must be carried out, as the case may be, in accordance with the approved details before they are brought into use for the purposes of the authorised development.

(3) No stage of the connection works shall commence until for that stage, a scheme of highway improvements within the highway boundary (in accordance with table 1 of the outline traffic management plan) has been submitted to, and approved by the local planning authority in consultation with the relevant highway authority. The scheme must describe whether the proposed improvements are to be temporary or permanent.

(4) The highway improvements must be constructed in accordance with the approved details before they are brought in to use for the purposes of the authorised development.

25.—(1) No stage of the connection works shall be commenced until for that stage, after consultation with the relevant highway authority, the following have been submitted to and approved by the relevant local authority in consultation with the relevant highway authority—

(c) an access management plan which must be in accordance with the outline access management plan

6. This HI&AP sets out the location, frontage, general layout and visibility available for access (AX-subs) onto the existing road network from the onshore substation. It presents the requirements and standards that have been incorporated into the final access design.
7. This HI&AP also sets the required highway improvement (HX-01) within the highway boundary at the junction of Bullen Lane and Loraine Way and presents the details of the location and design. The improvement identified is a temporary measure, and the highway will be returned to the existing layout following construction, unless otherwise requested by Suffolk County Council (SCC) Highways Authority. The improvement has been designed to a standard required for a permanent improvement.
8. EAOL will work with the SCC Highways Authority to ensure appropriate resourcing is in place to monitor compliance with the provisions of this HI&AP, this will be done through the Planning Performance Agreement.

1.3 Background

9. An assessment was undertaken as part of the Traffic Assessment to inform the Environmental Statement which examined the appropriateness, viability and justification for the use of the existing transport networks available to ensure any impact of the additional delivery and transport movements are minimised to an acceptable level. The outcome of the assessment established construction routes that will adequately provide the requirements of the construction logistics which is based as far as reasonably practical upon the published Suffolk Lorry Route Network, thereby minimising the use of publically maintained local access roads as far as possible. Details of the Construction Access Routes are presented in Appendix 1.
10. A further Construction Access Route Assessment¹ was undertaken to evaluate the Local Access Routes of the construction road network, which do not form part of the Suffolk Lorry Route Network. The assessment included:
 - An on-site engineering survey;
 - An assessment and route evaluation of the construction access routes for the delivery of equipment, construction plant, materials; and
 - The construction workforce along the Local Access Routes.
11. The assessment determined that the local access roads identified present viable and safe routes for use by construction traffic over the duration of the onshore construction works, subject to the implementation of mitigating measures and temporary road improvements.
12. This HI&AP takes account of the route surveys, assessments and route evaluations undertaken and has been developed in accordance with the Outline Access Management Plan (EA1-CON-N-IBR-00225).

¹RSK, East Anglia ONE Offshore Windfarm Construction Access Route Assessment Document 371024-TRNS-REP-002 Rev02, September 2012

2. Local Community Liaison

13. EAOL will manage public relations with local residents and businesses that will be affected by construction traffic. Public relations for the entire works will be co-ordinated on site by a designated member of the construction management team. A proactive public relations campaign will be maintained, keeping local residents informed of the type and timing of works involved, the transport routes associated with the works, the hours of likely construction traffic movements and key traffic management measures. As provided for by the Code of Construction Practice (EA1-CON-F-GBE-008547), a combination of communication mechanisms such notices, exhibitions, letters, newsletters, posters, website and Parish Council meetings will be used to keep local residents and businesses informed.
14. A designated EA ONE Local Community Liaison Officer will field and respond to any public concerns, queries or complaints in a professional and diligent manner as set out in the Community Liaison and Public Relations Procedure contained within the Code of Construction Practice (EA1-CON-F-GBE-008547) provided under separate cover.
15. Bramford Parish Council will be contacted (in writing) in advance of the proposed works and ahead of key milestones. The information provided to the Parish Council will include a timetable of works, a schedule of working hours, the extent of the works, and a contact name, address and telephone number in case of complaint or query. Enquiries will be dealt with in an expedient and courteous manner. All complaints will be logged, investigated and, where appropriate, rectifying action will be taken.
16. As part of the Traffic Management Plan (EA1-CON-R-IBR-009583) all transport related to EA ONE onshore construction works will be registered and issued with a unique identification code from which an identification sticker/board will be placed in a prominent positions to enable the site management team and members of the public to identify the vehicle and its association to EA ONE. This will be monitored by both contractor Site Managers who will report into the designated Traffic Management Supervising Officer.

3.Requirement and Standards

18. This HI&AP and the works detailed within comply with the following guidance and standards:
- New Roads and Street Works Act 1991
 - Highways Act 1980
 - Design Manual for Roads and Bridges
 - HSG47: Avoiding danger from underground Services (Third edition, 2014)
 - Department of Transport's Chapter 8: Traffic Safety Measures and Signs for Road Works and Temporary Situations Parts 1 and 2
19. The design of the highway improvement works (HX-01) presented in this document have been reviewed and approved by SCC Highways Authority prior to inclusion in this plan (confirmed in email correspondence from David Stiff Highways Manager SCC 19.01.17).

4. Construction Details

20. The EA ONE onshore substation will be located within a fenced compound (150m by 190m) to the north of the existing National Grid Bramford Substation. The substation will contain electrical equipment including power transformers, switchgear, reactive compensation equipment, harmonic filters, cables, control buildings and other associated equipment, which will largely be outside with a number of the components being within the buildings.
21. The construction of the substation will include a number of key stages;
- Enabling works;
 - Foundations, trenching and drainage installation;
 - Construction of buildings; and
 - Equipment installation and commissioning.
22. The enabling works will include grading and earthworks to remove any unsuitable materials from the substation area and provide a level platform. Where possible, the materials excavated will be reused on site as engineering fill or landscaping depending on material properties. The enabling works will also include the construction of the main concrete access road to the substation.
23. Following the completion of the enabling works, work will commence on the excavations for foundations for the buildings and trenches to accommodate electrical infrastructure and installation of the drainage networks. Work will also commence on the construction of the buildings. Once these works are complete, the substation equipment is installed and commissioned.
24. During the construction of the substation, site establishment and laydown areas will be required hereafter referred to as the temporary construction compound. This will include temporary offices, welfare, car parking, materials and equipment storage. The area directly east of the substation will be used as the substation temporary construction compound (referred to as Work No 38 within the DCO).

5. Access Management

25. Access to the onshore substation and associated temporary construction compound will be served from Bullen Lane, which leads eastwards from the substation location to the B1113. This road serves the existing Bramford National Grid substation and is suitable for use as a means of permanent access. The road is suitable to carry the vehicles which will be associated with the construction of the substation, and the alignment of Bullen Lane from its eastern end with the B1113 is suitable to accommodate abnormal loads.
26. Concrete access roads will be constructed to provide permanent access into and within the substation. A new concrete external access road will be constructed to lead into the substation (AX-sub), this will be used to access the temporary construction compound once constructed. Prior to the construction of the main access road a temporary trackway will be installed to access the temporary construction compound.
27. The main access road will run parallel to Bullen Lane and the bridleway to the north of the Bramford National Grid substation in an east-west direction. The junction with the new access road and Bullen Lane will be located immediately west of the private track to Bullenhall Farm. This will be a 5m access road with two lay-by/waiting areas suitably sized to accommodate vehicles used for the construction and maintenance of the substation. A concrete internal access and service road and car parking area will be constructed within the substation. This is a 5m wide circulation road designed to meet the load bearing capacity of the vehicles delivering the electrical components. The appearance of the access road will be further integrated into the landscape by hedgerow planting on either side.
28. Maintenance of the access point will be carried out via daily inspections by the site management team reporting of defects. Regular road sweeping and installation of wheel washing facilities shall prevent contamination of the adjacent highways.
29. The following procedures shall be adopted to manage the impact of access to the substation during the construction works:
 - All access arrangements will be including in the briefing to all site staff at induction stage;
 - All access routes will be given a unique identification number and each will have signage displaying the identification number;
 - All access points will have appropriate advance warning signage;
 - All gates will be manned or locked daily when there is no construction activity;
 - All access points will have grit bins placed at the entrance way;
 - Wheel wash facilities will be installed at all access points; and
 - All Contractors will be advised of Traffic Management Plan (EA1-CON-R-IBR-009583) and this HI&AP prior to engagement by EAOL.

6. Access and Highway Improvements

30. This section presents the details of the access improvement (AX-subs) and highway improvement (HX-01) work to be undertaken to facilitate construction of the substation. Details of the improvement works, including location, frontage, general layout and visibility and details of the identified access point and associated improvements are provided.

6.1 Access Improvement

31. The access improvement for the substation (AX-subs) comprises of a new permanent access road installed from a new access junction at Bullen Lane.
32. The new access road will run parallel to Bullen Lane and the bridleway to the north of the Bramford National Grid substation in an east-west direction. The road will be constructed using concrete with a filter drain in one verge and utility services in the other. Details of the design of the access road are shown on drawing EA1-GRD-D-FHT-007834 Rev 4 'Road Construction Details Sheet 1' in Appendix 2. The location of the new access road is shown on drawing EA1-GRD-D-FHT-007836 Rev 2 'Setting Out' in Appendix 2.
33. The junction for the new access road at Bullen Lane will be located immediately west of the private track to Bullenhall Farm. The new access junction comprises a 2m verge and a 30m radius turn in area to the east side of the new junction only to facilitate safe HGV access and new road layout signage will be installed. Details of the new access junction are shown on drawing EA1-GRD-D-FHT-007840 Rev 1 'Junction Arrangement' presented in Appendix 2.

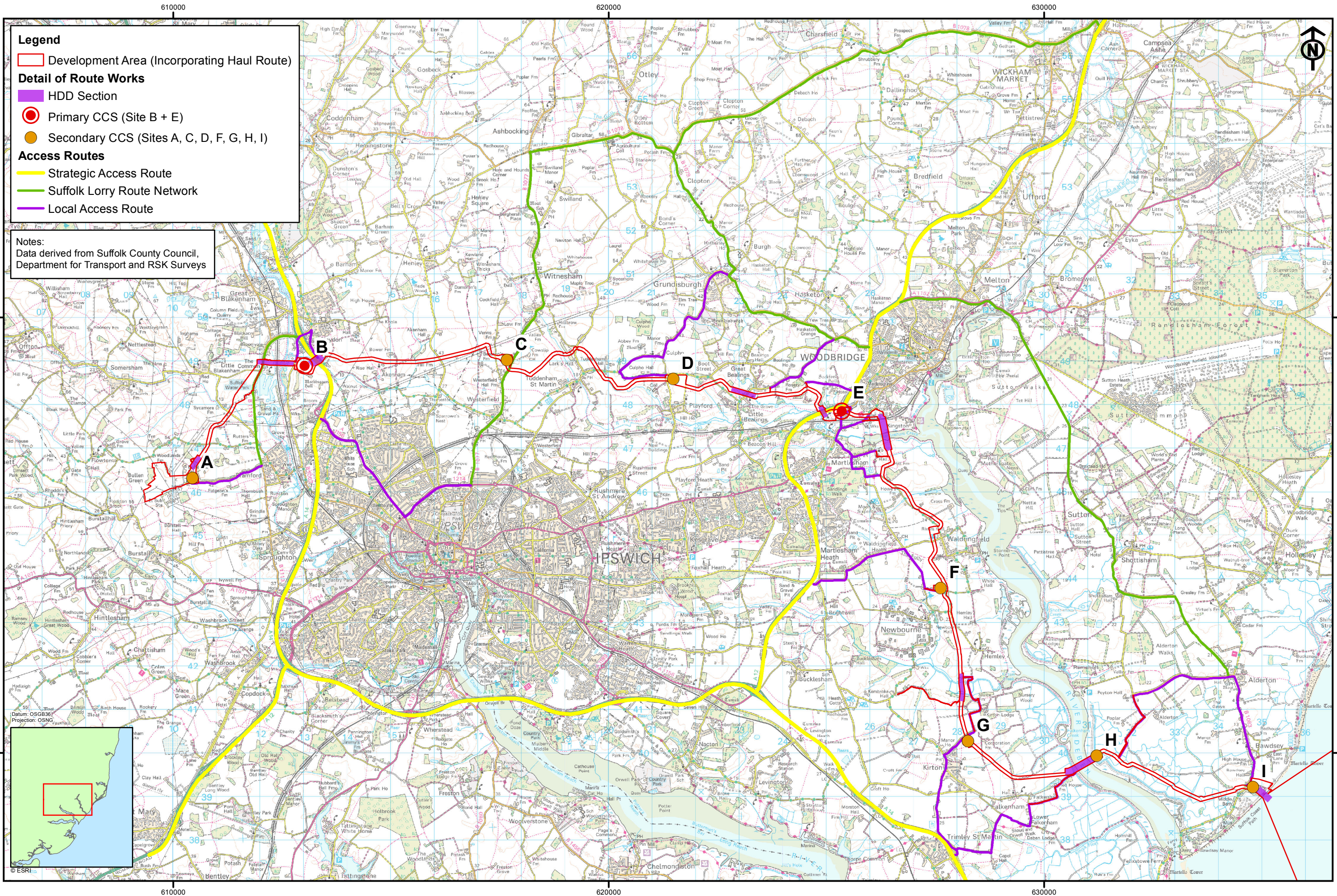
6.2 Highway Improvement

34. As part of the Traffic Assessment for the Environmental Statement, it was confirmed that the existing SCC Lorry Route Network adequately provides for the construction activities required. An appraisal² of the existing Local Road Network necessary to accommodate construction related traffic has been undertaken to identify where road improvements are required to facilitate the works.
35. The route appraisals have taken into consideration features pertinent to the geometry and safety of the route for the size of vehicle proposed. These included:
- Road width;
 - Traffic volume and capacity;
 - Visibility along route;
 - Extent of hedgerows and trees along verges;
 - Level of route in relation to adjacent land;
 - Verges and extent of Public Highway;
 - Third party land requirement;
 - Pedestrian and non-motorised traffic flow; and
 - Swept path tracking analysis
36. To facilitate access to the substation and the temporary construction compound a highway improvement is required at the junction of Loraine Way and Bullen Lane (HX-01). This comprises the widening of the Loraine Way road surface along the western verge to create a filter lane to permit traffic turning into Bullen Lane. Details of the highway improvement (HX-01) are shown on drawing on the following plans presented in Appendix 3:
- EA1-GRD-D-FHT-022159 Rev 8 'Layout of Junction Improvement at Bullen Lane/Loraine Way (HX-01)';
 - EA1-GRD-D-FHT-022160 Rev 6 'Bullen Lane/Loraine Way Road Construction Details'
 - EA1-GRD-D-FHT-022180 Rev 5 'Road Signs'

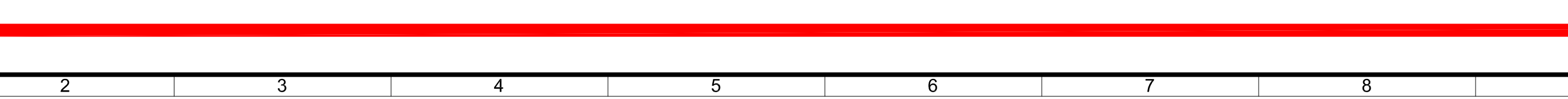
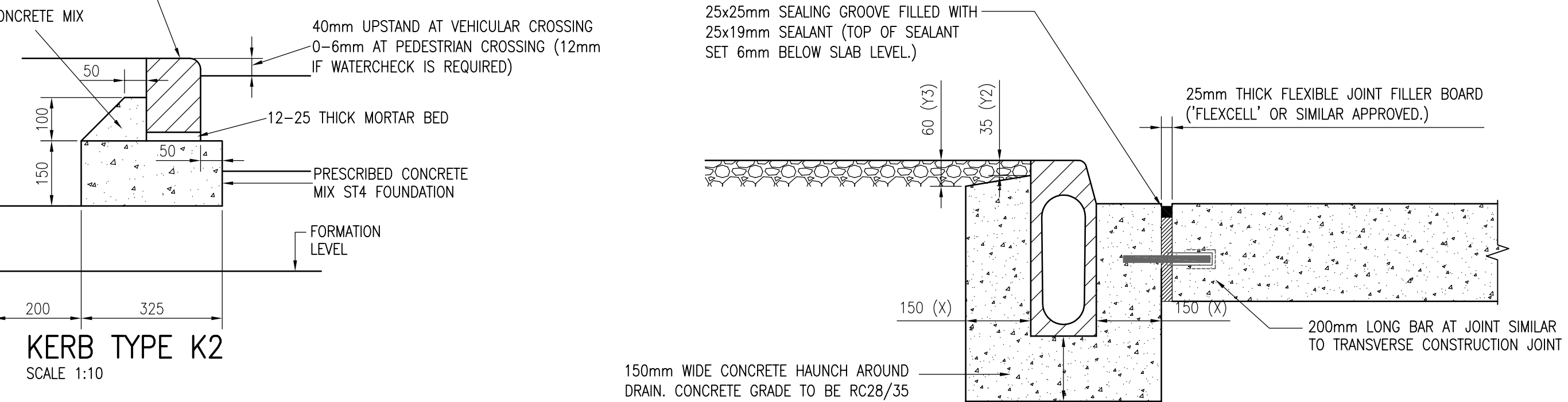
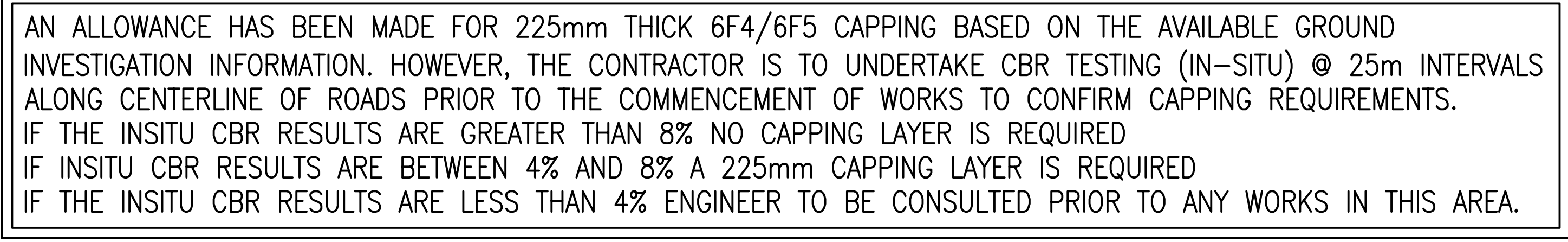
²RSK, East Anglia ONE Offshore Windfarm Construction Access Route Assessment Document 371024-TRNS-REP-002 Rev02, September 2012

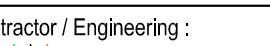

- 37. The proposal presented is considered necessary as a temporary improvement unless otherwise requested by SCC Highways Authority. However the improvement has been designed to a standard required for a permanent improvement.
- 38. The highway improvement presented has been developed in discussion with SCC Highways Authority and has been submitted and approved by them prior to inclusion in this plan (confirmed in email correspondence from David Stiff Highways Manager SCC 19.01.17).

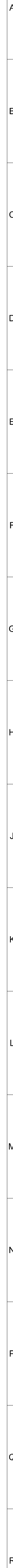
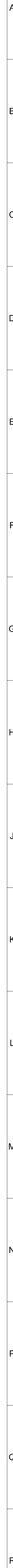
Appendix 1 Construction Access Routes



Appendix 2 Substation Access Improvement Details



3		20/07/16		GAV	GAV	AJR	*	DESIGN UPDATES AND RE-USE DETAILS FOR FUTURE WORKS CLARIFIED. VERSIVE TREATMENT AT BAYN ACCESS TRACK DETAIL CLARIFIED. SECTION THROUGH CONTRACTORS COMPAK MAKE-UP PROVIDED.			
4		28/07/16		GAV	GAV	SOD	*	WIDTH OF STONE PILE TRINCH TO SURFACE OF VERGE MINIMISED UPDATED TO SUIT DESIGN CHANGES RELATING TO LAYOUT REV 9			
REV		DATE		Drawn	Prep.	Checked	Approv.	REASON, STATUS OF REVISION			
Client:								Client drawing ref:			
								Other ref. of client:			
General Contractor / Engineering:								QUALITY LIST: rev 01 NO.02 DESIGN REVISIONS: NO.01 - 20/07/16 by GAV, NO.02 - 28/07/16 by SOD			
								Approval / Release for Construction			
								According standards on drawing			
Project:								Classification:			
OSS EAST ANGLIA ONE											
Titles:								Type of Document			
ROAD CONSTRUCTION DETAILS SHEET 1											
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10/05/16 WITH DISC								Next 5			
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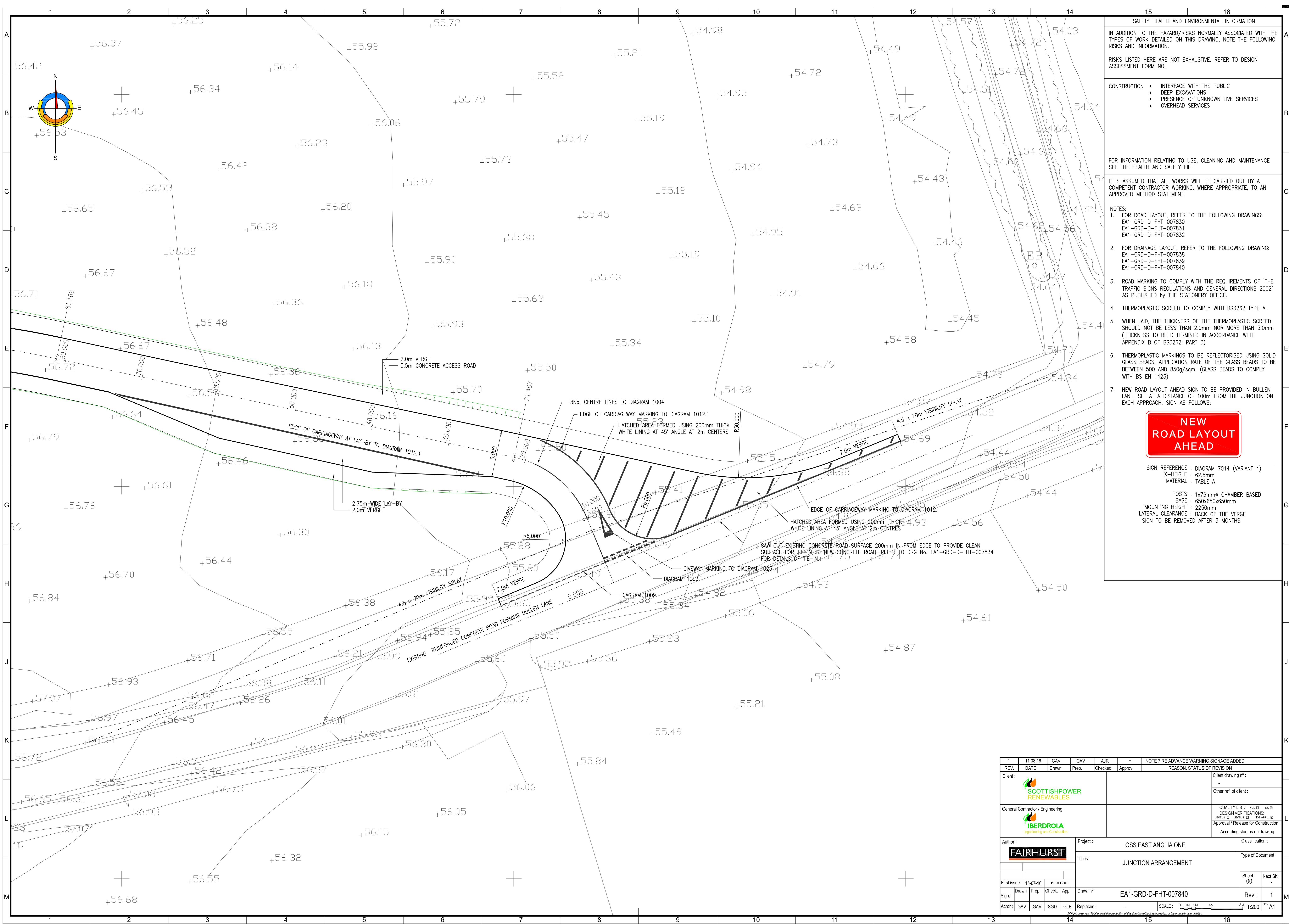
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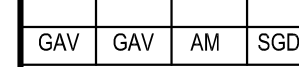
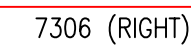
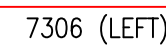
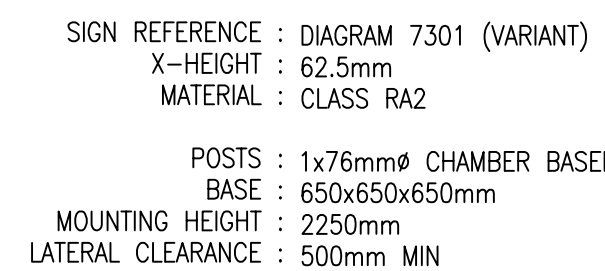
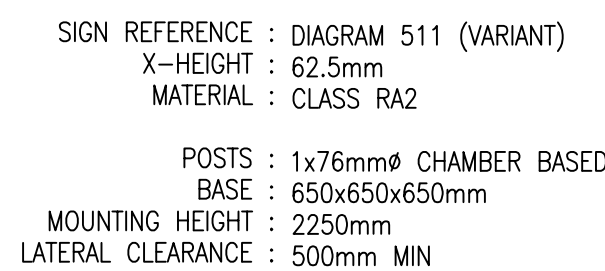
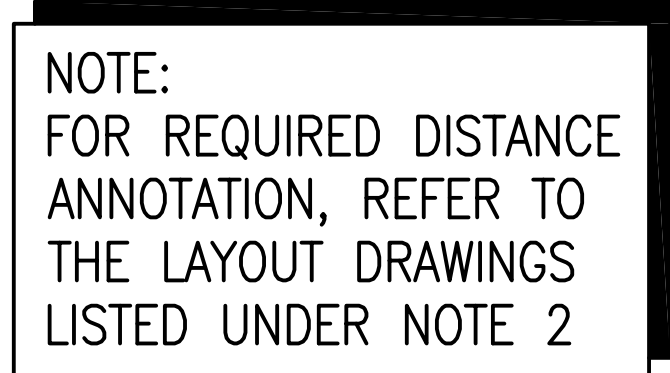
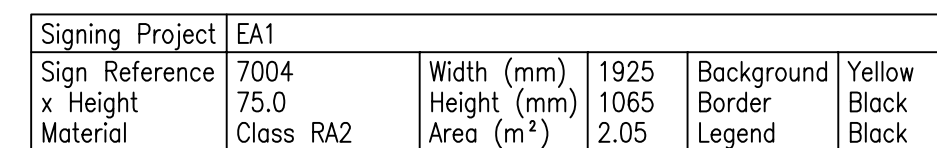
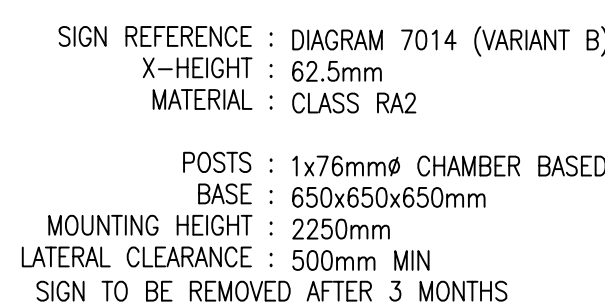
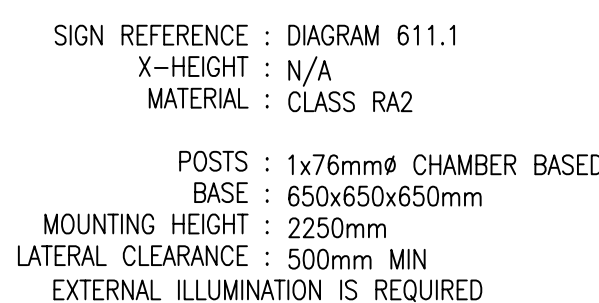
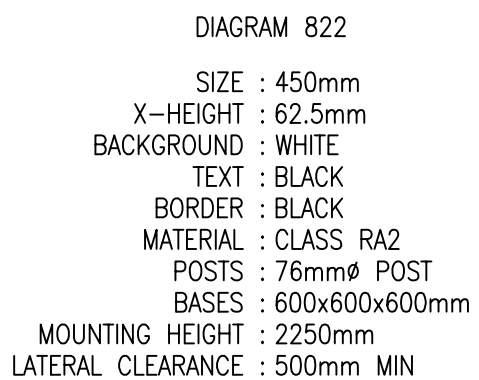
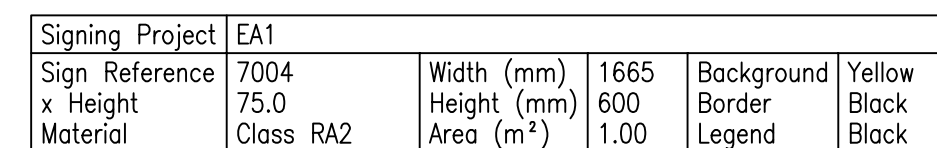
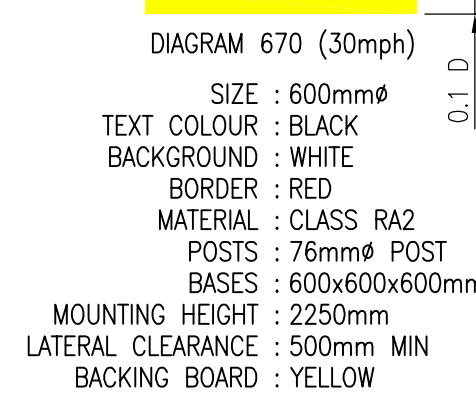
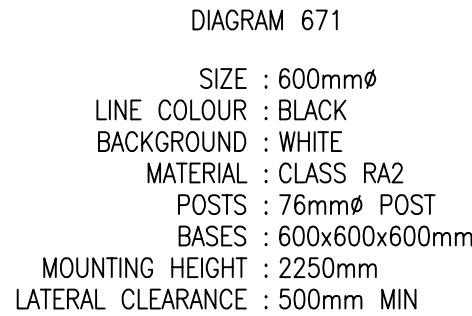
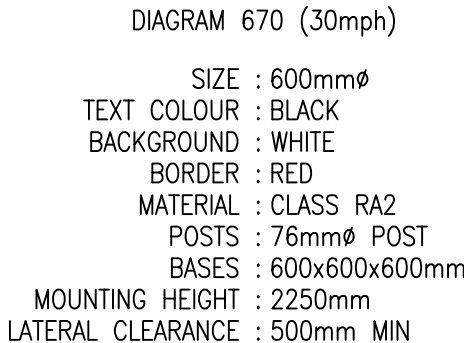
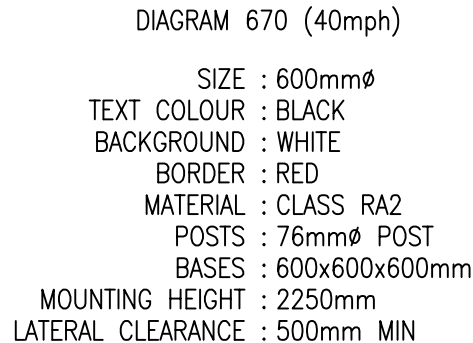
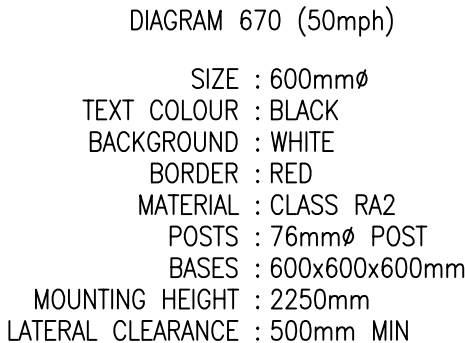
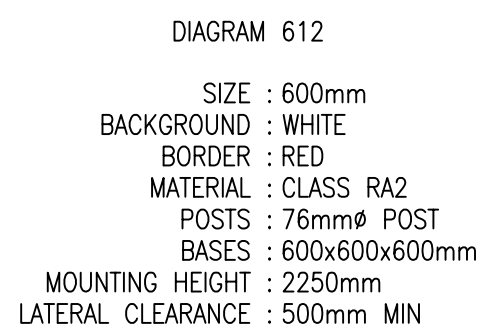
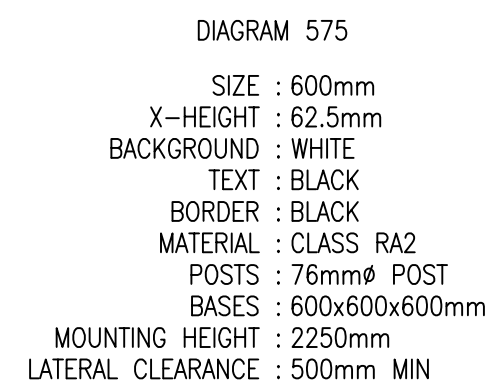
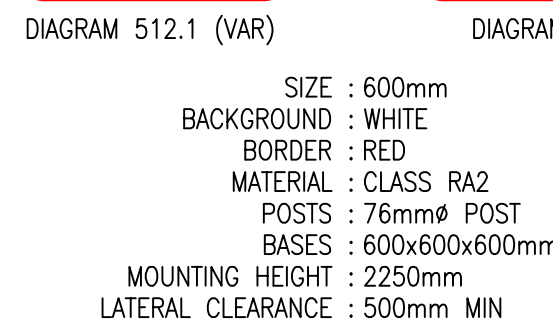
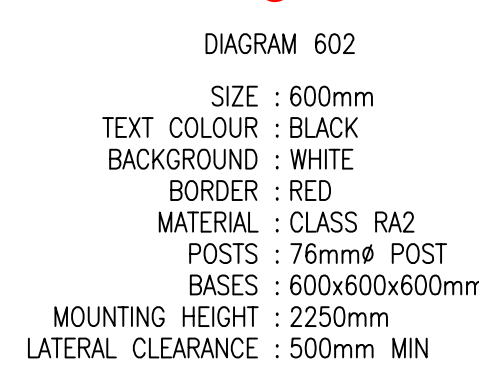
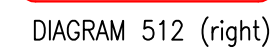
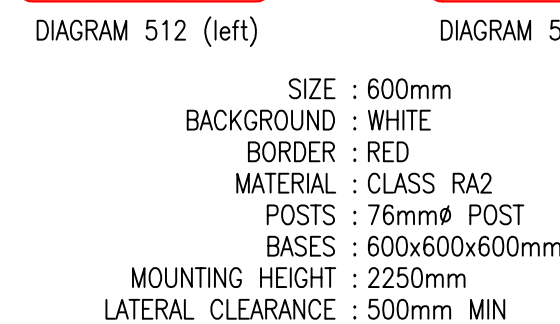
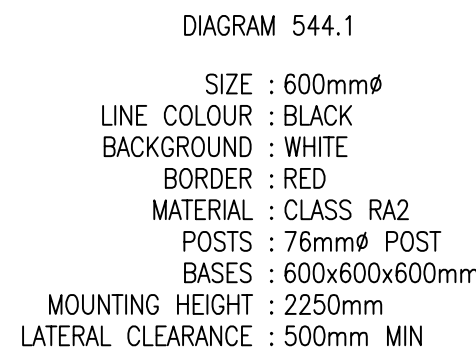
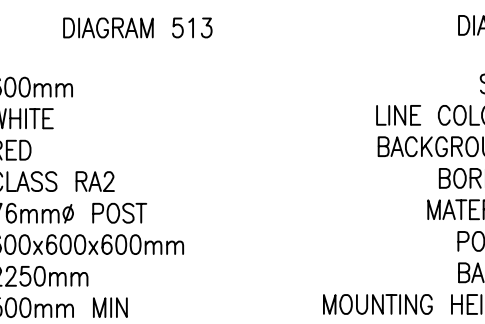
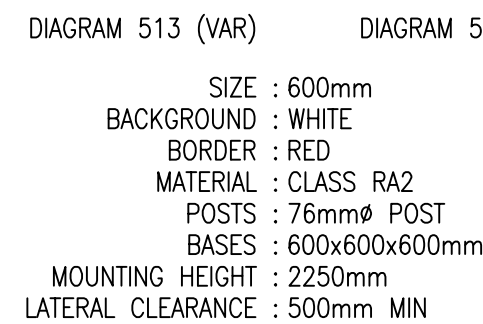
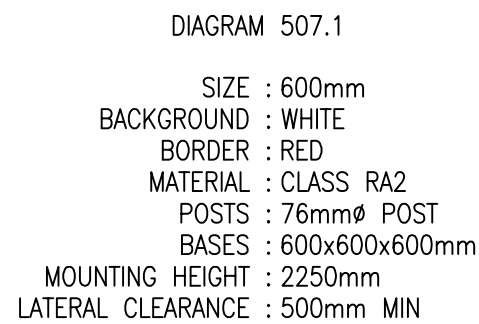
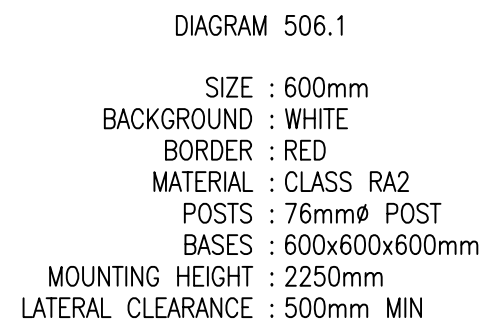
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Appendix 3 Substation Highways Improvement Details



Class :	-	ONCA EAST ANGLIA ONE
Type :	-	ROAD SIGNS
File :	EA1-GRD-O-FHT-022180 Rev 5	

**VALID FOR
CONSTRUCTION**

Gavin Park - 27/01/2017
for FAIRHURST

5	08/02/17	ACM	ACM	GAV	SGD	DRAWING BORDER UPDATED.
4	30-01-17	ACM	ACM	GAV	SGD	ADDITIONAL SIGN DETAILS ADDED, DIAGRAMS 513 AND 7304
3	27-01-17	ACM	ACM	GAV	SGD	STATUS UPDATED TO BE 'VALID FOR CONSTRUCTION'
2	13-01-17	SF	AM	GAV	SGD	ADDITIONAL SIGN DETAILS ADDED FOLLOWING SCC COMMENTS 506-1, 507-1, 513, 612, 822
1	02-12-16	SF	SF	AM	SGD	30mph SIGN WITH YELLOW BACKING BOARD ADDED
REV	DATE	Drawn	Design	Checked	Agreed	REASON STATUS OF REVISION

ONCA EAST ANGLIA ONE			
ROAD SIGNS			
EA1-GRD-D-FHT-022180			Rev : 5
Replaces : -	Sheet: -	Next: -	Of : A1

- GULLY NOTES :
- GULLY TO COMPLY WITH SPECIFICATION CLAUSE 508 AND MAY BE CAST INSITU USING A PLASTIC GULLY AS PERMANENT FORMWORK, OR PRECAST CONCRETE TO B.S. 5911.
 - THE MINIMUM DEPTH FROM THE TOP OF THE GRATING TO THE TOP OF THE GULLY OUTLET IS TO BE 750mm WHEN THE CONNECTING PIPE IS UNDER THE CARRIAGEWAY, ELSEWHERE 600mm. ABANDONED GULLIES TO BE DISCONNECTED AND INFILLED WITH CONCRETE GRADE S14.
 - GULLY GRATING AND FRAME TO B.S. EN124, TO BE 400, 100MM DEEP, DOUBLE TRIANGULAR OR HINGED, AS REQUIRED BY S.C.C.
 - GULLY FRAME TO BE SET 5-10mm BELOW CARRIAGEWAY SURFACE.
 - BOTH PRECAST AND INSITU GULLIES CAN BE INSTALLED ADJACENT TO KERB OR VERGE.

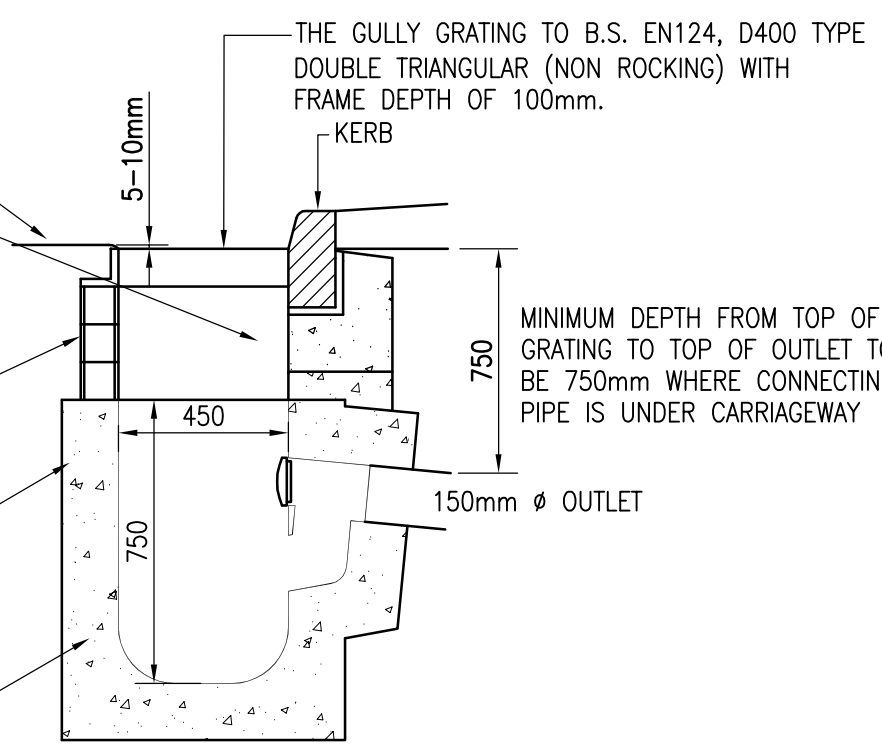
FINISHED SURFACE LEVEL

THE BACK FACE OF THE GULLY POT SHALL BE IN A VERTICAL LINE WITH THE FRONT FACE OF THE KERB.

RECYCLED PLASTIC INTERLOCKING BRICK SYSTEM

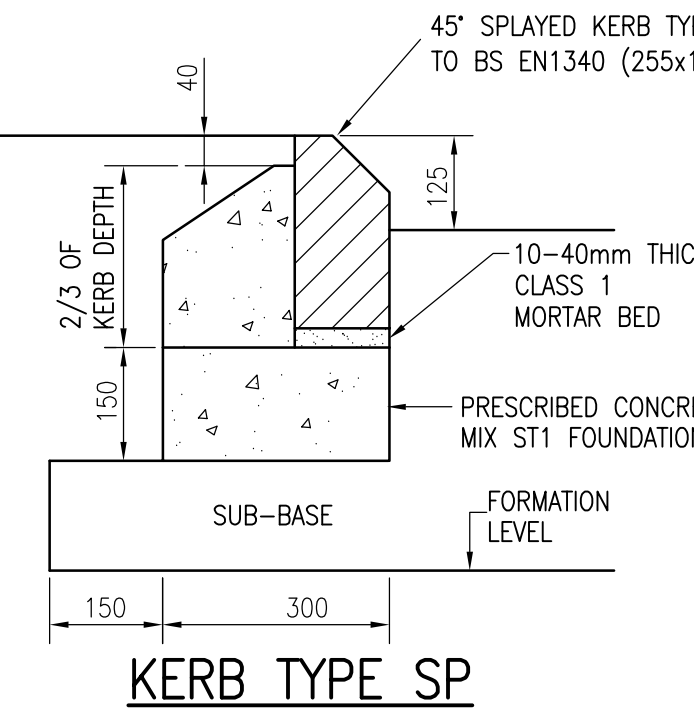
TRAPPED ROAD GULLY HDP 750mm x 450mm TO SPECIFICATION CLAUSE 508. THIS MAY BE SUBSTITUTED FOR PRECAST CONCRETE UNIT TO B.S. 5911 (CONCRETE SURROUND TO BE ST1 IF CONCRETE POT USED).

150mm MIN. PRESCRIBED MIX ST4 CONCRETE BASE & SURROUND 150mm THICK



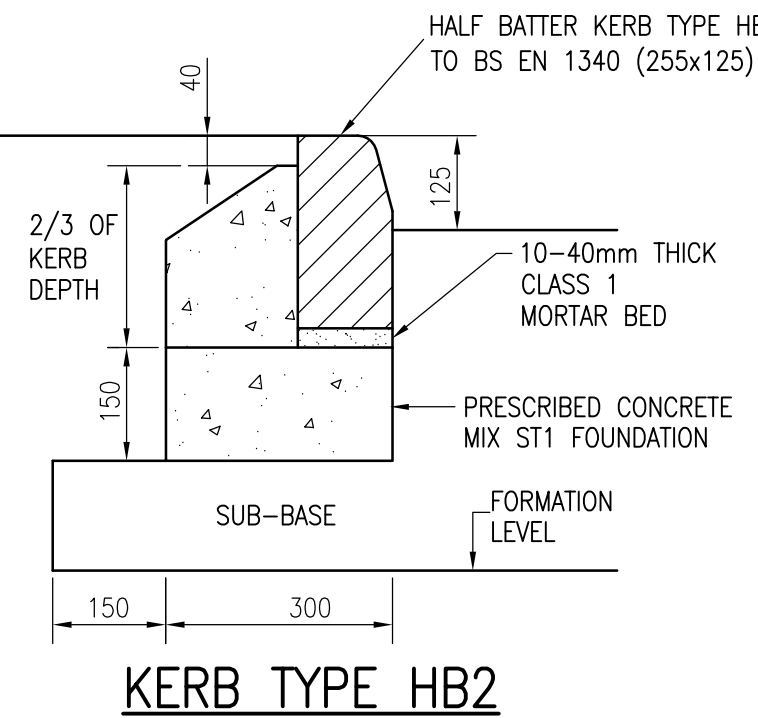
GULLY DETAIL

SCALE: 0 400mm 800mm 1:20



KERB TYPE SP

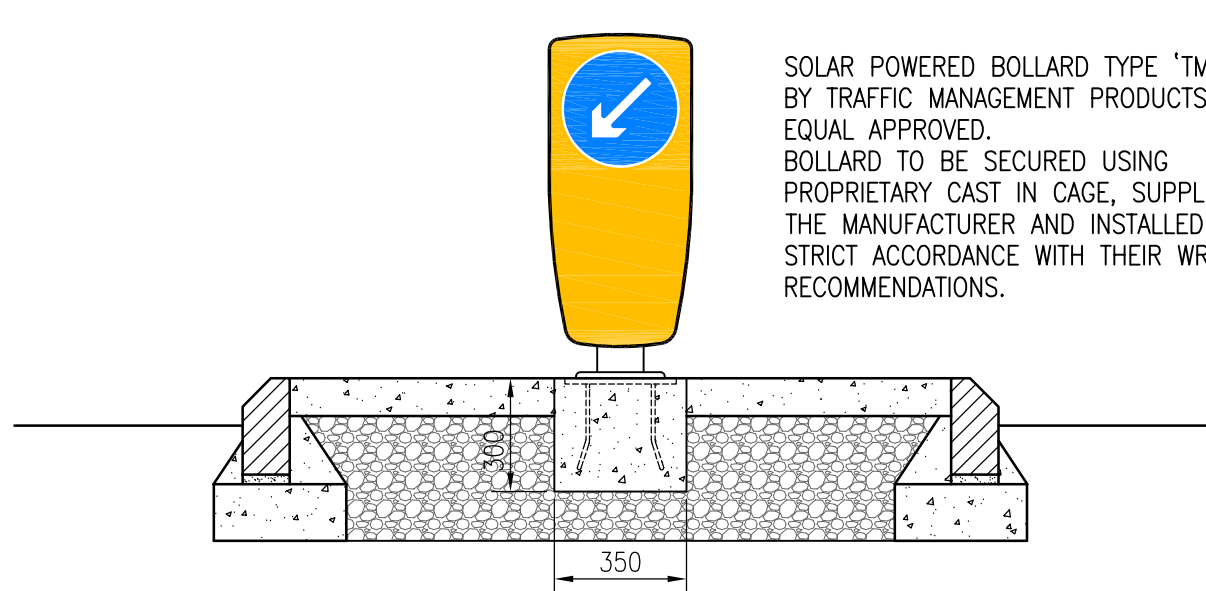
SCALE: 0 200mm 400mm 1:10



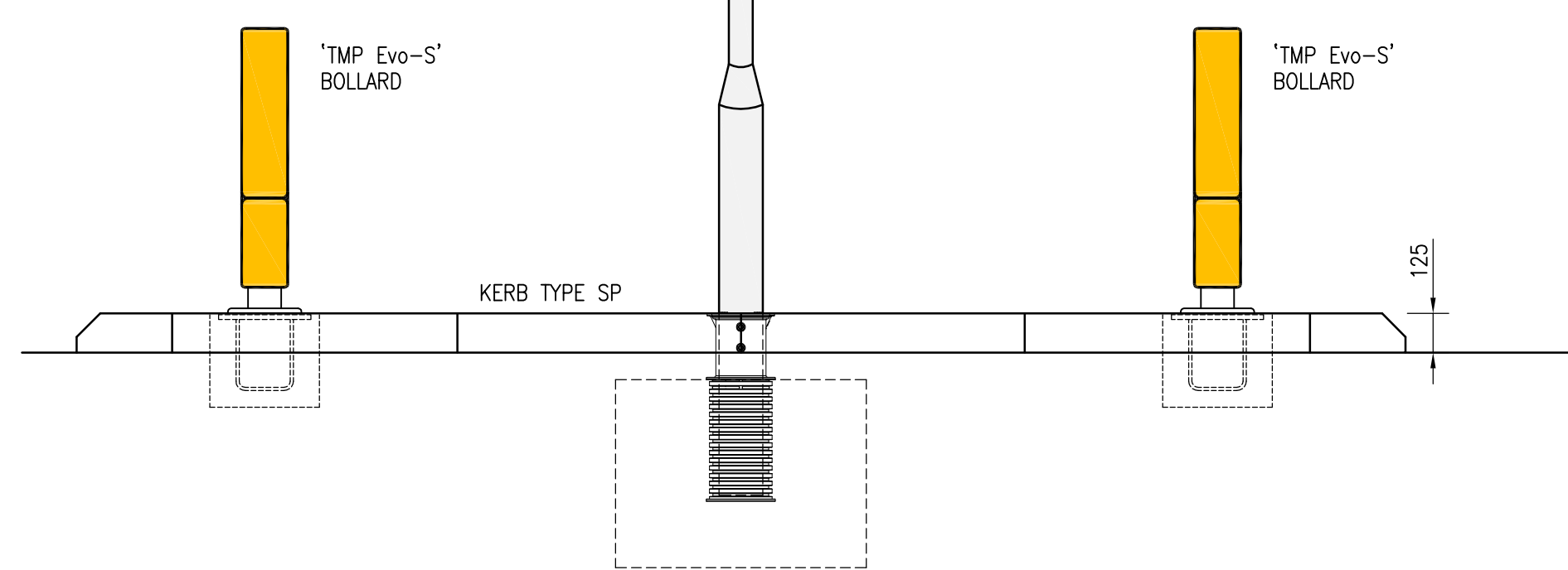
KERB TYPE HB2

SCALE: 0 200mm 400mm 1:10

- KERB NOTES :
- THESE DETAILS ARE FOR KERBING LAID IN CONJUNCTION WITH NEW CARRIAGEWAY CONSTRUCTION INCLUDING HAUNCHING.
 - CONCRETE BED TO BE MECHANICALLY VIBRATED AND THE SURFACE ROUGHENED TO PROVIDE A KEY FOR BACKING.
 - THE MORTAR BED MAY BE OMITTED IF METHOD OF LAYING KERBS DIRECT ONTO WET CONCRETE IS APPROVED BY S.C.C. THE BACKING CONCRETE MUST BE PLACED WITHIN ONE HOUR OF LAYING THE CONCRETE BED. ALL CONCRETE TO BE MIX ST1.
 - KERB FACE TO BE 125mm.
 - KERBS LAID TO SMOOTH HORIZONTAL AND VERTICAL ALIGNMENT.
 - BACKING TO KERBS TO BE A MINIMUM OF 2/3 OF KERB DEPTH UNLESS OTHERWISE STATED.
 - 0-6mm UPSTAND FOR PEDESTRIAN CROSSINGS AND 25mm FOR VEHICULAR ACCESS.

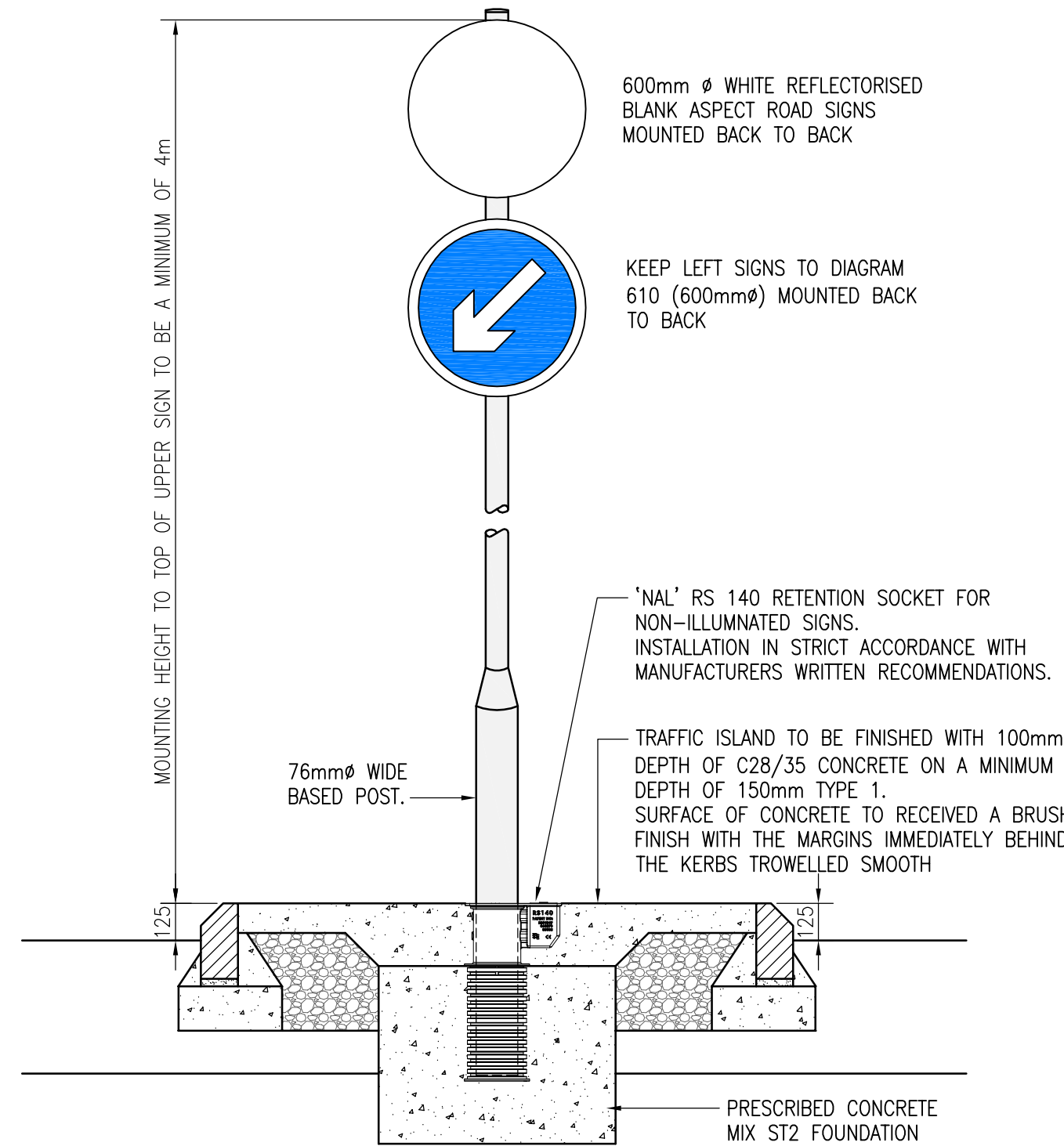


ELEVATION ON KEEP LEFT BOLLARD

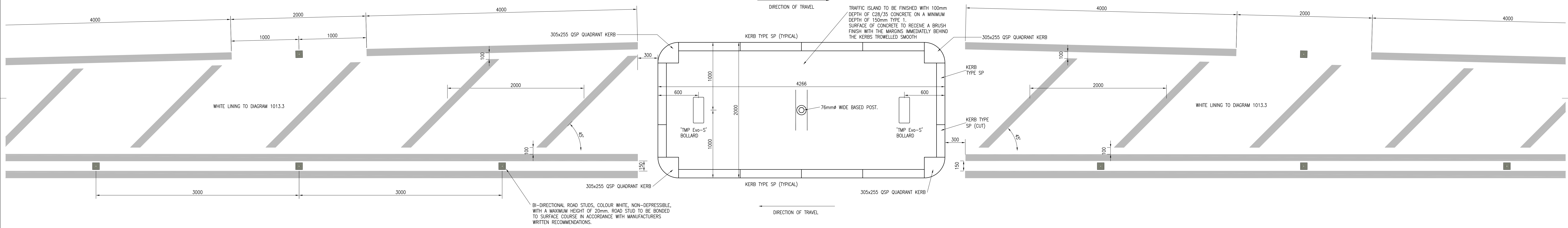


ELEVATION ON TRAFFIC CALMING ISLAND

SCALE: 0 400mm 800mm 1:20

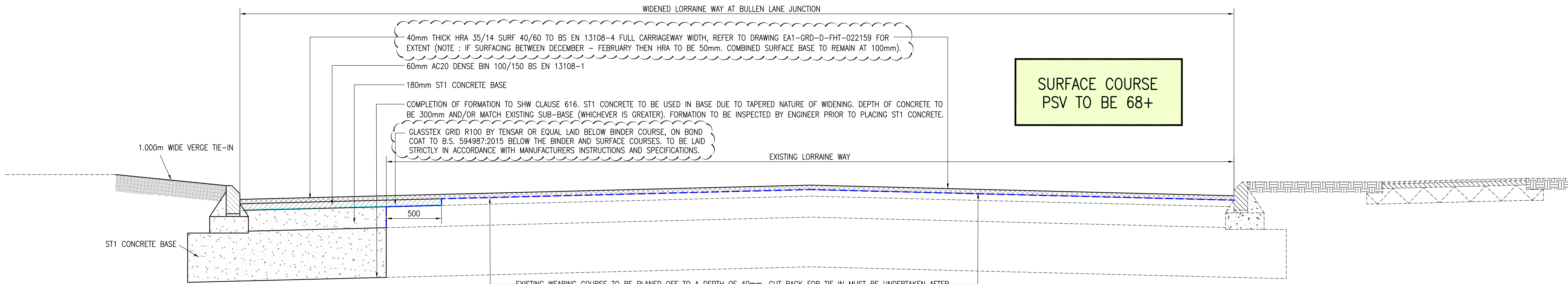


NON-ILLUMINATED SIGN POLE DETAIL



PLAN ON TRAFFIC CALMING ISLAND

SCALE: 0 400mm 800mm 1:20



SECTION THROUGH ROAD WIDENING AT LORRAINE WAY/BULLEN LANE

SCALE: 0 400mm 800mm 1:20



6	16-02-17	ACM	ACM	GAV	SGD	SURFACE COURSE SPECIFICATION UPDATED TO SUIT SCC COMMENTS DATED 16/02/16. NOTE RE: GLASSTEX UPDATED.
5	01-02-17	ACM	ACM	GAV	SGD	SECTION NOTE AMENDED TO ST1 CONCRETE IN BASE LAYER.
4	27-01-17	ACM	ACM	GAV	SGD	STATUS UPDATED TO BE VALID FOR CONSTRUCTION.
3	23-01-17	ACM	GAV	SGD	SGD	SURFACE COURSE UPDATED TO BE HRA 35/14 OF 60mm NOTED.
2	13-12-16	ACM	GAV	SGD	SGD	ALL DETAILS REDRAWN FOLLOWING S.C.C. COMMENTS.
1	11-10-16	ACM	GAV	SGD	SGD	FULL WIDTH WEARING COURSE NOW SHOWN TO LORRAINE WAY.
REV	DATE	Drawn	Prep.	Checked	Approved	REASON STATUS OF REVISION
						ONCA EAST ANGLIA ONE
						BULLEN LANE/LORRAINE WAY ROAD CONSTRUCTION DETAILS
						EA1-GRD-DK-FHT-022160
						Rev: 6
						Sheet: A0