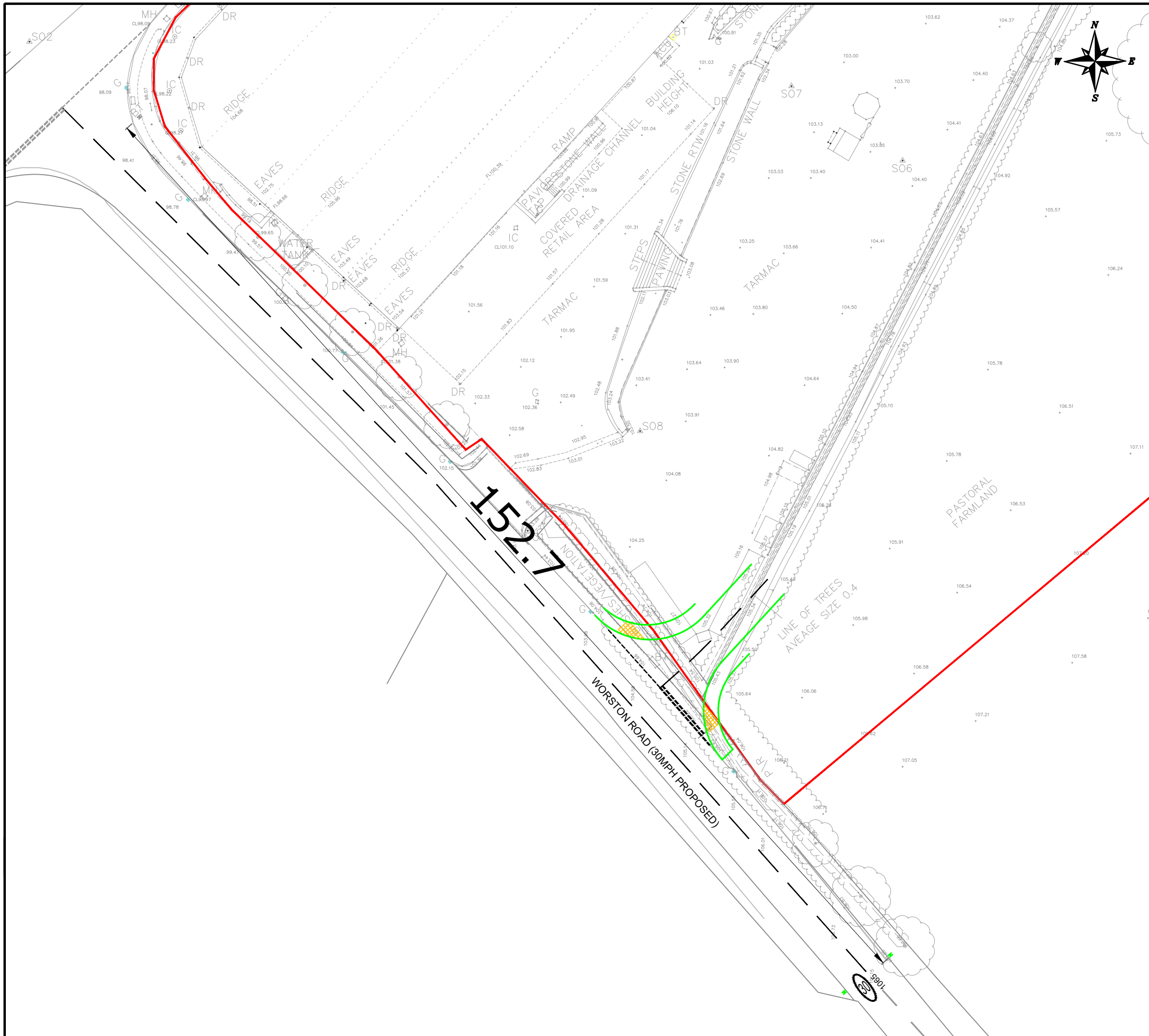


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NOTES

REV	DETAILS	DRAWN	CHECKED	DATE

CLIENT: **CSA**

PROJECT: **SHACKLETONS GARDEN CENTRE, LANCASHIRE**

DRAWING TITLE: **S278 TRO PLAN**

SCALES: **1:500 @ A3**

DRAWN: LB	CHECKED: JC	DATE: MAY 24
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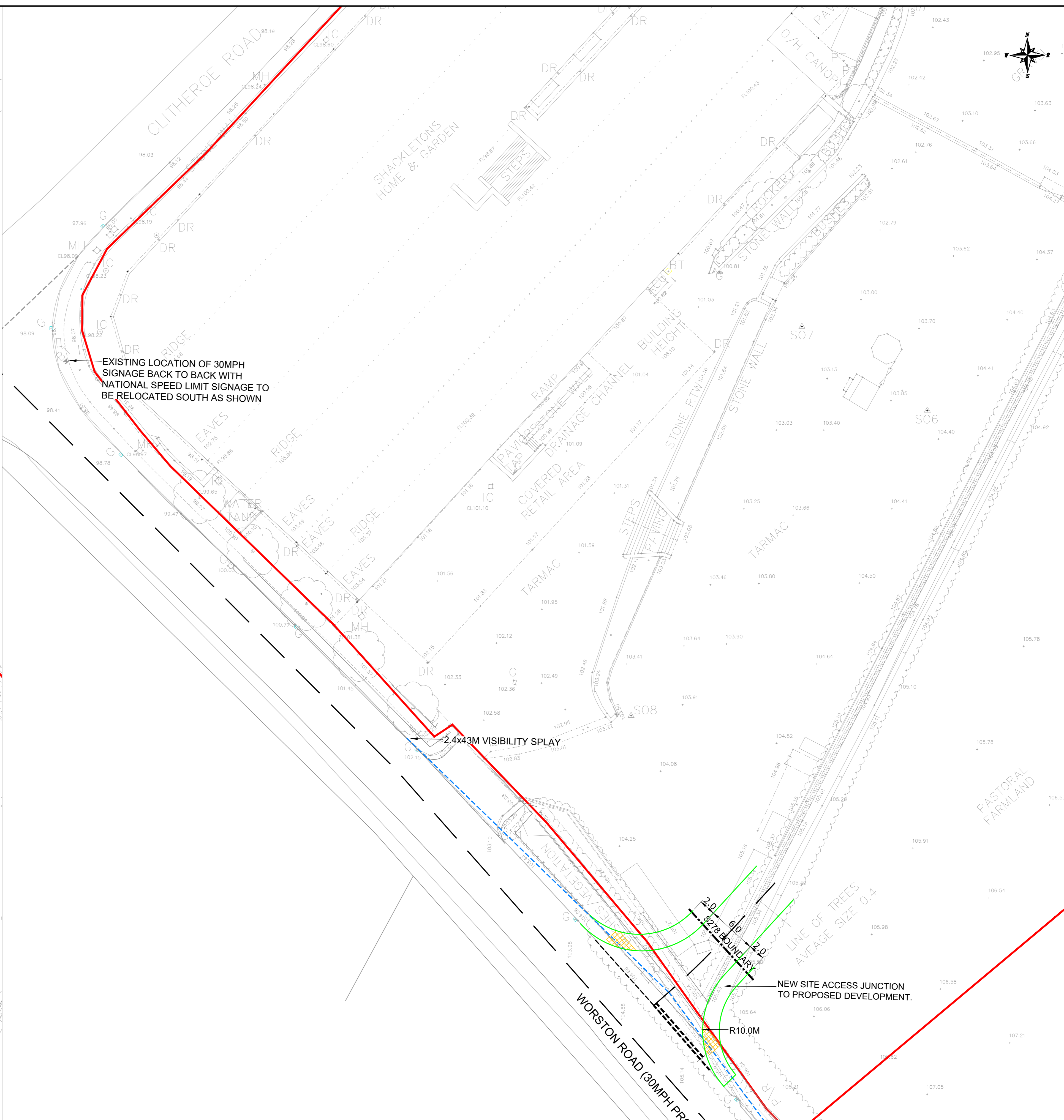
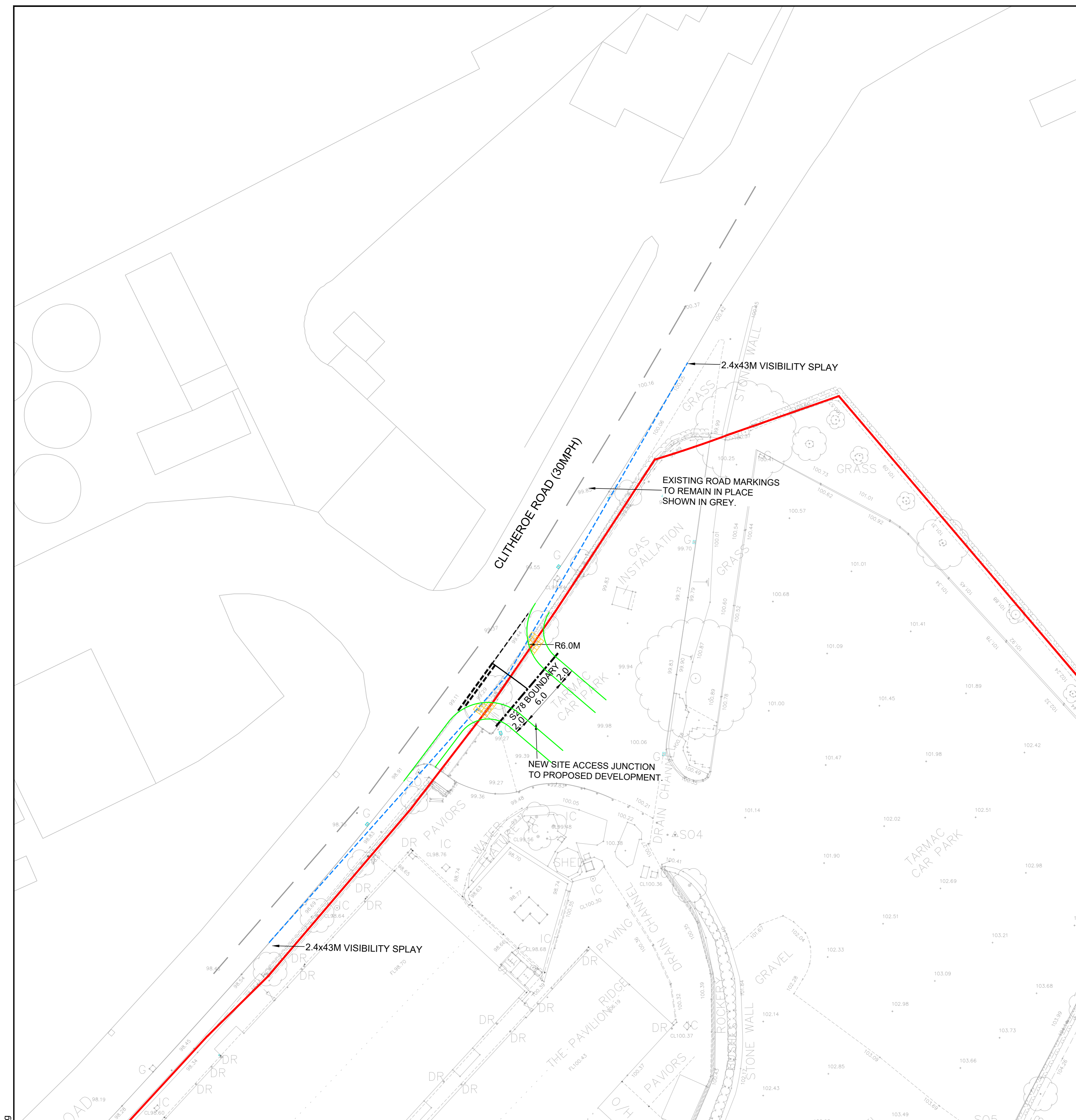
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Web: www.eddisons.com/services/transport-planning

DRAWING NUMBER: 4086-01 TRO PLAN	REVISION: -
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- NOTES**
1. ALL ACCEPTABLE SERVICES AND ASSOCIATED WORKS ARE TO COMPLY FULLY WITH RELEVANT ADAPTATION OF THE UNDERGROUNDING ANY WORKS AND ANY DISCREPANCIES WITH BOUNDARIES, RECORDS, EARTHWORKS OR OTHERS IDENTIFIED IMMEDIATELY TO THE ENGINEER PRIOR TO CONSTRUCTION.
 2. ALL HIGHWAY AND DRAINAGE WORKS TO BE ACCEPTABLE STANDARDS AND SHALL COMPLY FULLY WITH THE MANUAL FOR ROAD AND BRIDGES SPECIFICATION FOR HIGHWAY WORKS AND BRITISH STANDARDS CONTRACTOR SPECIFICATION FOR DRAINAGE FROM SOLE AND DISCREPANCIES WILL NOT OCCUR.
 3. ANY PRIVATE WORKS ARE TO COMPLY FULLY WITH THE LATEST EDITIONS OF THE BUILDING REGULATIONS.
 4. ALL EXISTING STATIONS, LEVELS AND DRAINAGE NETWORKS TO BE CHECKED BY THE CONTRACTOR AT THE START OF WORKS AND ANY DISCREPANCIES NOTIFIED TO THE ENGINEER. ALL LEVELS ARE BASED ON TOPOGRAPHICAL SURVEY INFORMATION PROVIDED BY OTHERS. ANY DISCREPANCIES BETWEEN THIS AND OTHER DRAINAGE TO BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
 5. ALL MATERIALS TO BEAR THE RELEVANT STATEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL MATERIALS TO BE STORED WITH THE CORRESPONDING LOCAL AUTHORITY REPRESENTATIVE PRIOR TO ORDERING ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT UNLESS THE SITE INVESTIGATION REPORT STATES THAT SULPHATE ATTACK FROM SOLE AND DISCREPANCIES WILL NOT OCCUR.
 6. ALL STATUTORY COMMENTS, OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS AND WATER INDUSTRY ACTS ARE TO BE OBTAINED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF THE WORKS UNLESS OTHERWISE STATED. ALL WORKS ARE TO BE INSPECTED BY L.A. NMC OR STATUTORY AUTHORITY AS APPLICABLE.
 7. CONTRACTOR TO MAKE ADVANCE ALLOWANCE FOR THE MANAGEMENT AND COORDINATION OF STATUTORY UNDERTAKING OPERATIONS WITHIN THEIR PROGRAMME OF WORKS. PRESENCE OF STATUTORY UNDERTAKING EQUIPMENT IN THE HIGHWAY SHOULD BE VERIFIED BY THE CONTRACTOR ON SITE PRIOR TO STARTING ANY WORKS. THE LOCATION OF STATUTORY PLANT SHOULD BE ON ANY PLANS OF REGULATION AND SHOULD NOT BE RELOCATED FROM THE LOCAL AUTHORITY OR OTHER SOURCE. THE LOCATION OF ALL PLANT SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING ANY WORKS. ALLOWANCE FOR THE PRESENCE OF ALL STATUTORY UNDERTAKING EQUIPMENT SHOULD BE MADE PRIOR TO COMMENCING ANY WORKS. CONCRETE PRODUCTS SHOULD BE STORED UNDER STATUTORY APPROVED METHODS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATUTORY UNDERTAKING EQUIPMENT AND TO BE STORED BY THE CONTRACTOR PRIOR TO COMMENCING ANY WORKS.
 8. CONTRACTOR TO OBTAIN PERMISSION TO AGREE ALL SIGN POSTING COLUMN MATERIALS AND FINISHES WITH THE LOCAL AUTHORITY. ALL SIGNS TO COMPLY WITH THE NATIONAL SPECIFICATION AND ITS NATIONAL ANNEX TYPE OF POSTS, FRAMES AND LIGHTING UNLESS OTHERWISE STATED TO BE AGREED WITH A STATUTORY UNDERTAKING CONTRACTOR. ALL SIGNS TO BE AGREED WITH A STATUTORY UNDERTAKING CONTRACTOR PRIOR TO COMMENCING ANY WORKS.
 9. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL ADVANCE NOTICES ARE IN PLACE AND TRAFFIC MANAGEMENT AGREED FOR THE WORKS PRIOR TO COMMENCING. THE CONTRACTOR IS TO MAKE ALLOWANCE FOR THE DISRUPTION OF ALL ELECTRICAL WORKS AND EQUIPMENT FOR SIGNALS AND STREET LIGHTING WITHIN REGULATED ZONES.
 10. THE FULL DESIGNER AND CONTRACTOR RISK ASSESSMENTS AND RISK REGISTER.
 11. THE DEVELOPER CONSTRUCTION HEALTH AND SAFETY PLAN.
 12. THE CONTRACTORS CONSTRUCTION METHOD STATEMENTS.



REV	DESCRIPTION	BY	DATE
1	AWENDED TO LCC COMMENTS	LB	MAY 24
2	AWENDED TO LCC COMMENTS	JC	MAY 24
3	DETAILS	JC	MAY 24

CLIENT: **CSA**

PROJECT: **SHACKLETONS GARDEN CENTRE, LANCASHIRE**

DRAWING TITLE: **S278 GENERAL ARRANGEMENT**

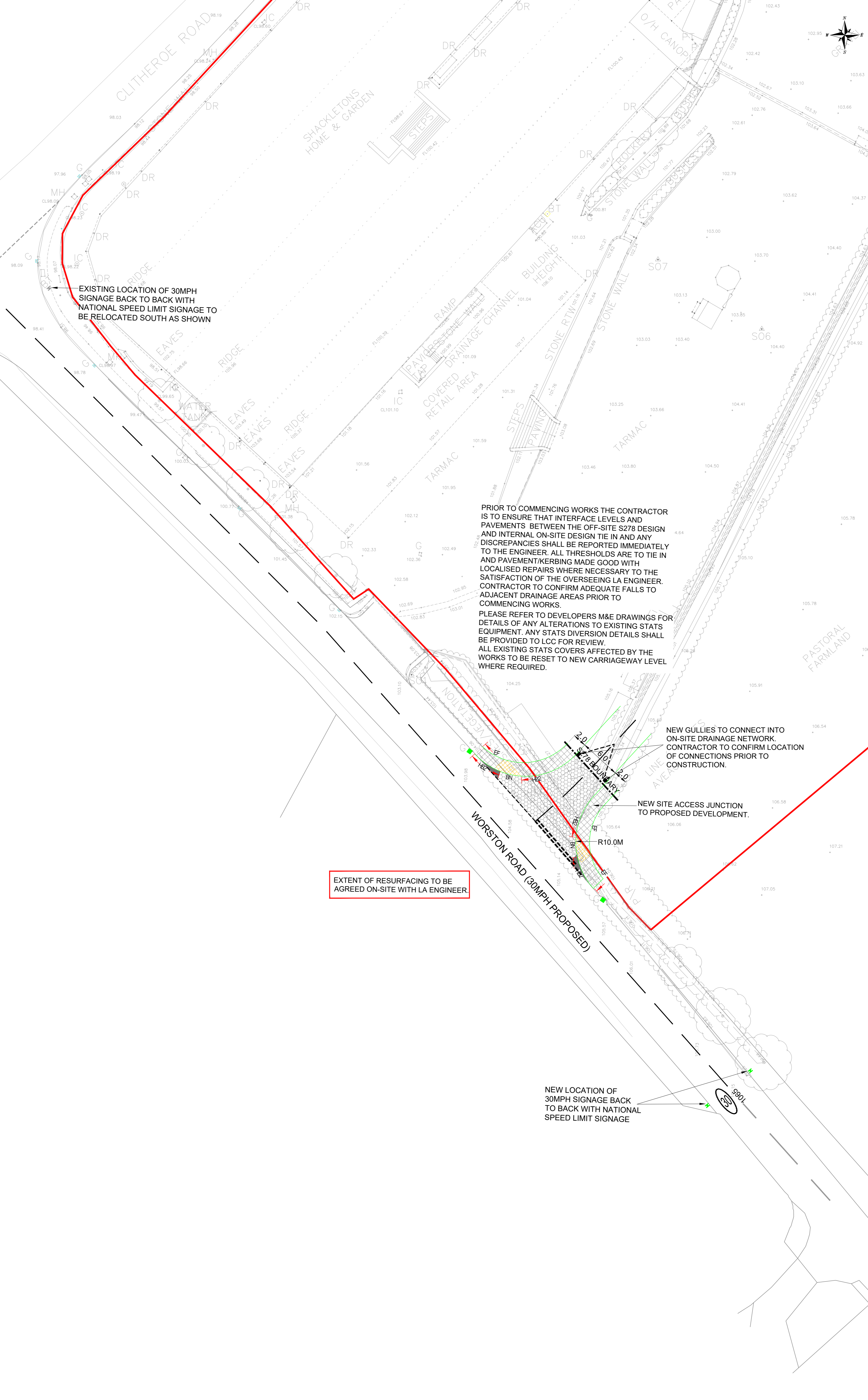
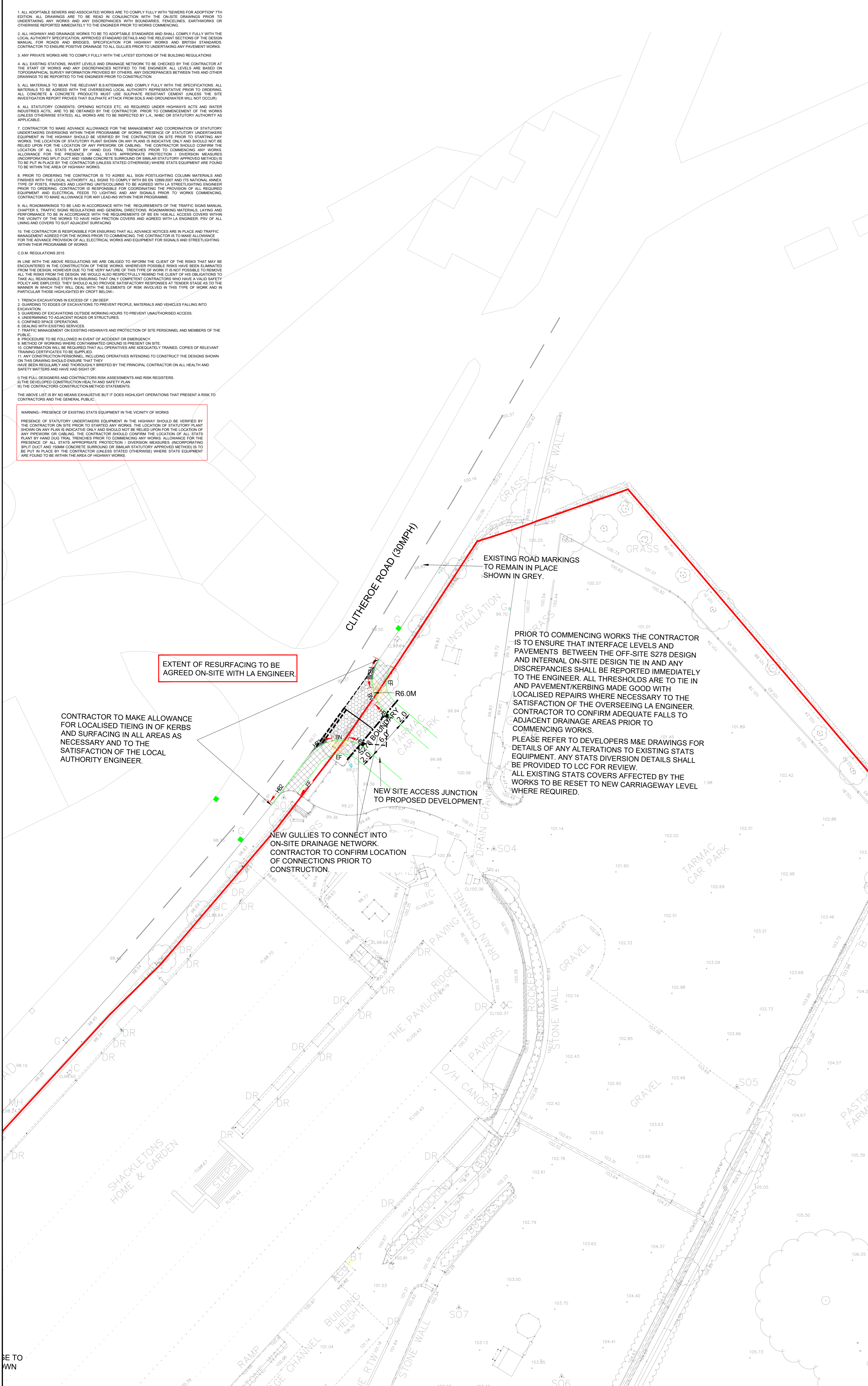
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DRAWN: LB CHECKED: JC DATE: JUN 23

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DRAWING NUMBER: **4086-D001** REVISION: **B**

Eddisons



- NOTES**
- MATERIALS TO BE IN ACCORDANCE WITH LCC STANDARD DETAILS AS SHOWN ON SHEET 004 AND AGREED WITH LCC HIGHWAYS PRIOR TO COMMENCEMENT OF WORKS.
 - FULL DEPTH CARRIAGEWAY CONSTRUCTION MAIN CARRIAGEWAY AND LIME STONE AGGREGATE TO BE USED IN SURFACE COURSE OR ANY SURFACES TO BE TEMPORARILY THATCHED. ALL MATERIALS TO BE LAID AND TRANSPORTED IN ACCORDANCE WITH THE SHW AND THE LANCASHIRE SPECIFICATION FOR HIGHWAY WORKS AND BRUSHED SURFACES TO BE APPLIED IN ACCORDANCE WITH THE SHW BUT WITH ALL ESTIMATED LAYERS CONTRACTOR TO CONFIRM FINISH SPEC AND POST WITH CLERK OF WORKS PRIOR TO ORDERING.
 - SURFACE: 30MM THICK CLAUSE 863 HRA 20/14 4000 P SURF WITH 20MM THICK COATED CHIPPINGS PLY BLEN TO BS EN 12184 AND THE LCC SPEC PROVIDED.
 - BINDER: 60MM MCHV C046 AC20 DENSE BIN 100/150 REC WYATO BS EN 12184
 - BASE: 150MM THICK MCHV C086 AC 20 DENSE BIN 100/150 REC WYATO BS EN 12184
 - SUB-BASE: 30MM THICK SUB-BASE TYPE 1 GRANULAR MATERIAL LAD AND COMPACTED TO MCHV CLAUSES 803, 804, 806 OR 807 CBR HERE ESTIMATED TO BE 1.5% CBR TO BE CONFIRMED ON SITE IN ACCORDANCE WITH LCC SPEC AND DMRB REITS.
 - CAPPING: 30MM THICK #2 CAPPING SUBJECT TO ON-SITE CBR TEST RESULTS. REFER TO LCC SPEC FOR FULL DETAILS OF CAPPING REITS. LAD AND COMPACTED TO THE SPECIFICATION OF HIGHWAY WORKS CLAUSE 813 CBR TO ESTABLISHED ON SITE PRIOR TO STARTING WORKS. CONTRACTOR TO REFER RESULTS TO A REPRESENTATIVE OF THE LOCAL AUTHORITY AND THE DESIGN MANUAL FOR ROADS AND BRIDGES VOLUME 7, SECTION 8, PART 3, CHAPTER 3 FOR FURTHER GUIDANCE ON SUB-BASE CAPPING RELATIONSHIP AND LANCASHIRE SPEC AS SUPPLIED APPROPRIATE TERMINAL GEOTEXTILE MEMBRANE TO BE LAID BENEATH CAPPING LAYER TO MANUFACTURERS PROPRIETARY REQUIREMENTS.
 - NARROW KERBS IN AREAS LESS THAN 1.2M AS FULL DEPTH CARRIAGEWAY CONSTRUCTION BUT BASE AND SUB-BASE LAYER REPLACED WITH 30MM #7 CONCRETE IN ACCORDANCE WITH LCC SPEC AND STANDARD DETAIL ON DWG 004.
 - FOOTWAY CONSTRUCTION: 20MM THICK AGGREGATE SURF 100/150 REC TO BS EN 12184. 60MM THICK ZONE 2 DENSE BIN 100/150 REC TO BS EN 12184. 10MM AT VEHICULAR CROSSINGS. 10MM TYPE 1 SUB-BASE 22MM AT VEHICULAR CROSSINGS. KERBS: PRECAST CHANNELS, RINGS, EDGERS ETC CONTRACTED TO THE RESULTS OF BS EN 1238 1345, BS 7533 AND BS 7261. ANY GAP BETWEEN KERB AND EXISTING CARRIAGEWAY TO BE FILLED WITH HOT PURCHASE BITUMEN MAX WITH 20MM WEAR. THE GAP IS GREATER THAN 20MM SHALL BE IDENTIFIED AS SHOWN IN THE RESURFACING STANDARD DETAIL. ALL NEW TO EXISTING WEARING COURSE JOINTS TO BE SEALED WITH HOT BITUMEN. WHERE NECESSARY EXISTING SURFACES TO BE SAW CUT TO PROVIDE A NEAT VERTICAL EDGE. KERBS IN CONCRETE CARRIAGEWAYS TO BE RESET IN ACCORDANCE WITH THE REQUIREMENTS OF THE DMRB AND A METHOD AGREED WITH LOCAL AUTHORITY ENGINEER PRIOR TO CONSTRUCTION.
 - PRECAST CHANNELS HALF BATTERED KERB: 100x205, BS REF 142 SET WITH 30MM FACE UNLESS OTHERWISE NOTICED.
 - PRE-CAST CONCRETE FLAT TOP EDGING 200x205, BS REF 171, FLUSH WITH FOOTWAY SURFACE.
 - DROPPED KERB CONSISTING OF PRECAST CONCRETE SHALL HAVE KERB 120 x 60, BS REF 171, AND FAPER KERBS 120 x 250, BS REF 171. 100mm SET FLUSH OR 60mm UPSTAND, 25mm UPSTAND AT VEHICLE CROSSOVERS.
 - DITCHES TO EXTENT OF NEW KERBING.
 - FACTILE PAVING: 400x400x20 CONCRETE BUFF COLOURED FACTILE PAVING PLOTS. 20MM #1 SANDMEDIUM BED. 300MM TYPE 1 GRANULAR SUB-BASE MATERIAL TO CLAUSE 803.
 - DRAINAGE: PRIOR TO COMMENCING WORKS THE CONTRACTOR TO SURVEY AND IF NECESSARY CLEAR EXISTING SURFACE SENSITIVE PLANTS TO CORRECT ALIGNMENTS AND PREVENT ANY OBSCURE CONNECTIONS WITH EXISTING PREVIOUS ALL EXISTING WORK WITHIN THE VICINITY OF THE WORKS TO BE RESET TO NEW CARRIAGEWAY LEVEL WHERE REQUIRED.
 - EXISTING GULLY TO REMAIN.

REV	DETAILS	DATE
1	ARRANGED TO LCC COMMENTS	JUN 24 2014
2	ARRANGED TO LCC COMMENTS	MAY 24 2014

CLIENT: CSA

PROJECT: SHACKLETONS GARDEN CENTRE, LANCASHIRE

DRAWING TITLE: S278 CONSTRUCTION MATERIALS

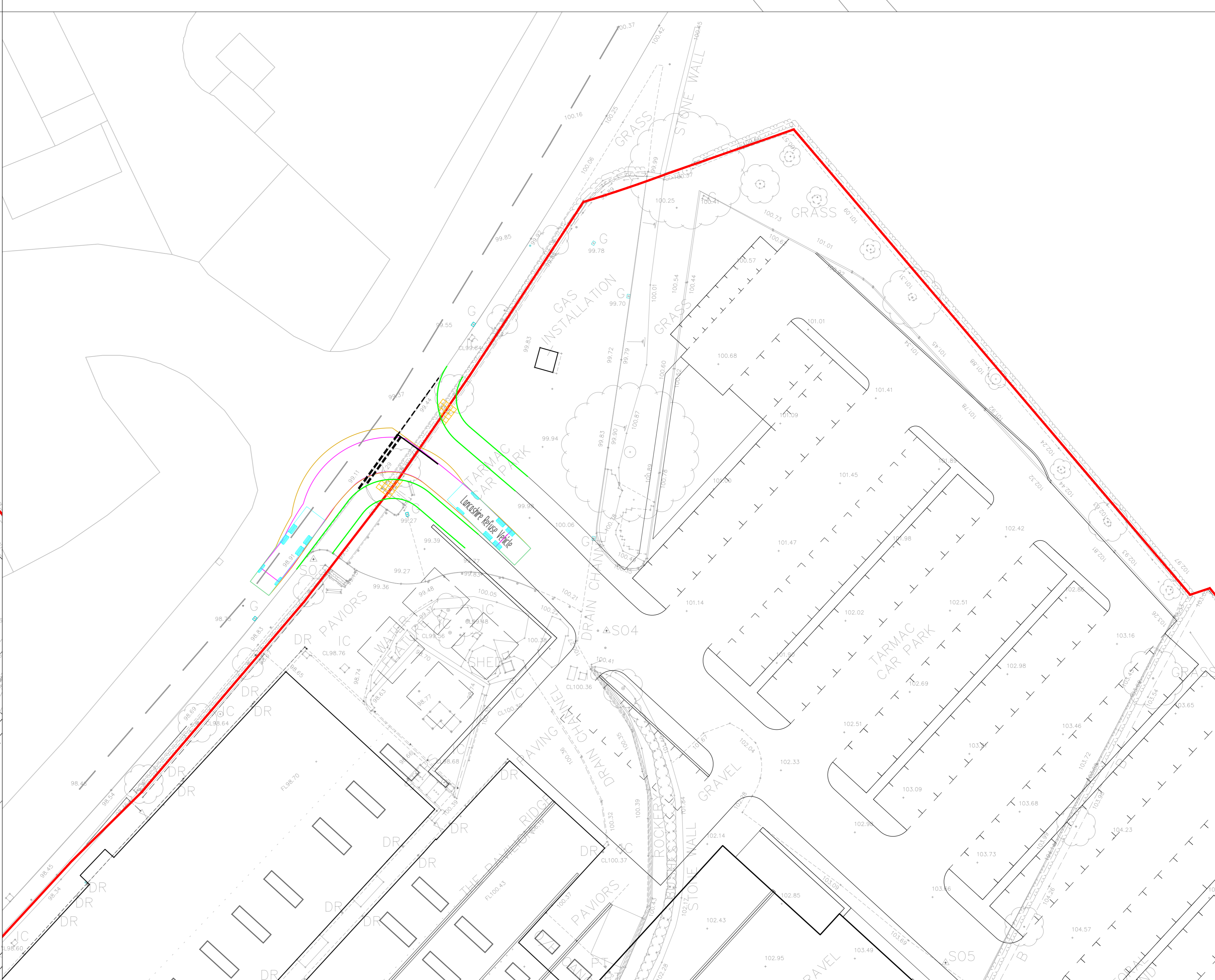
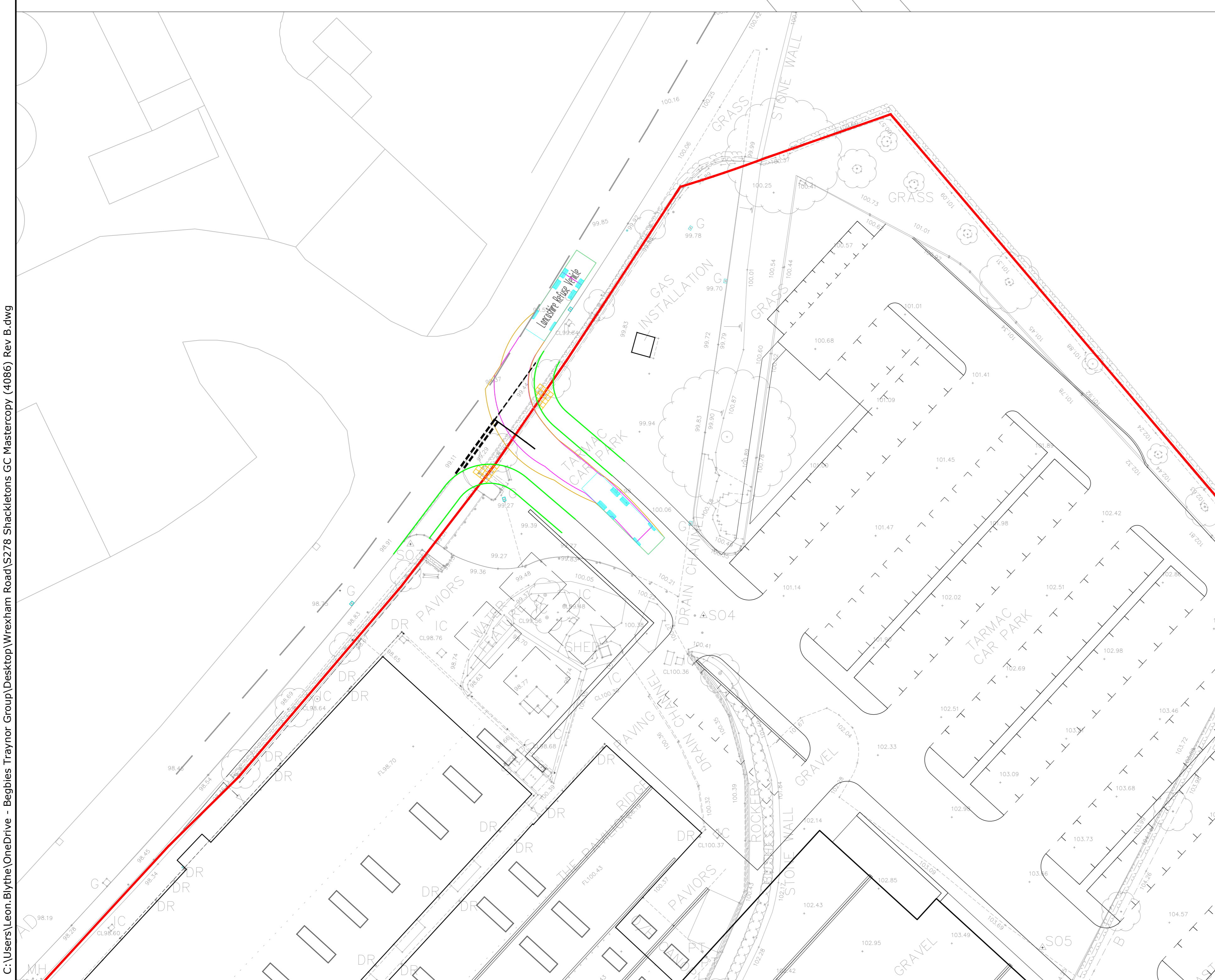
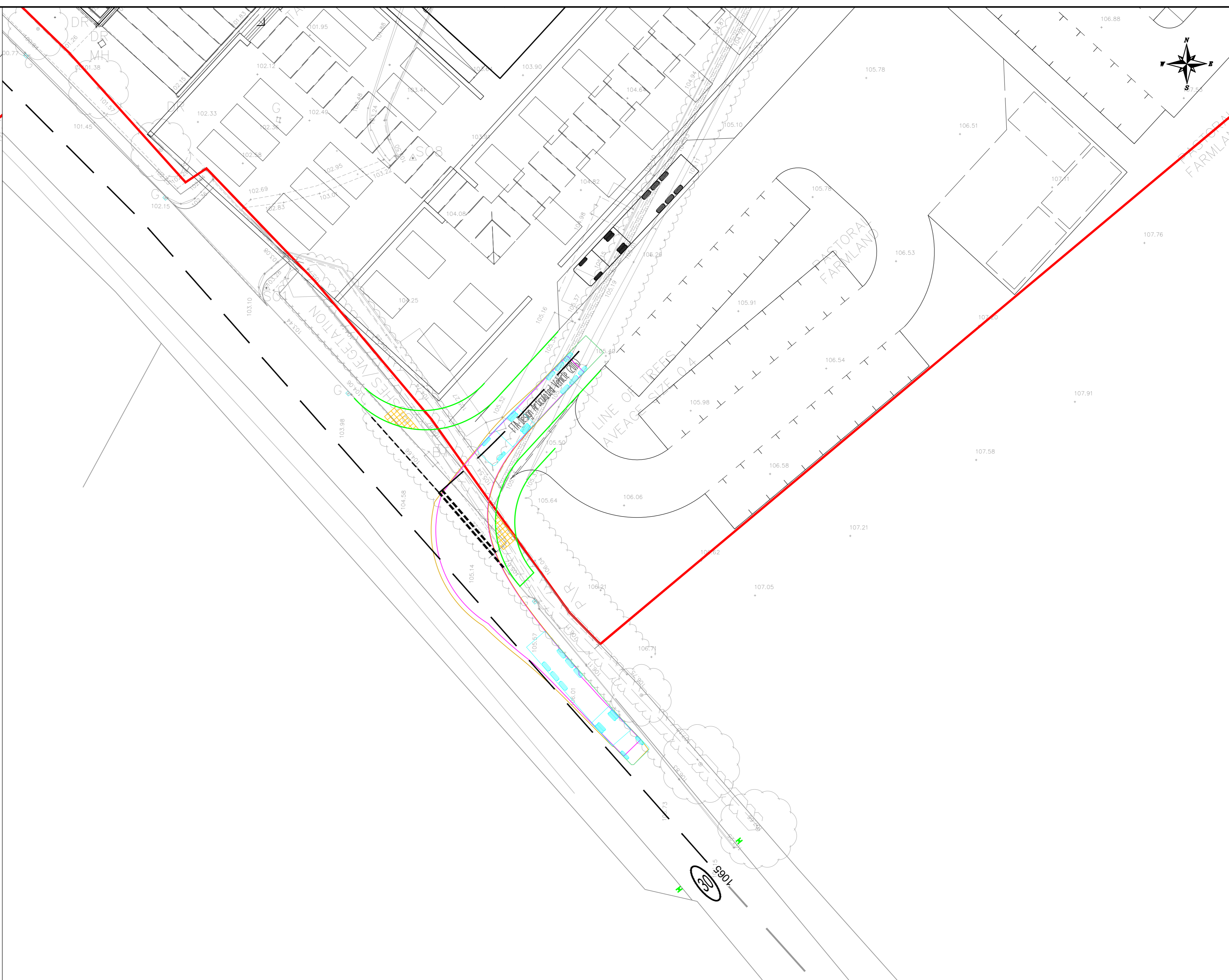
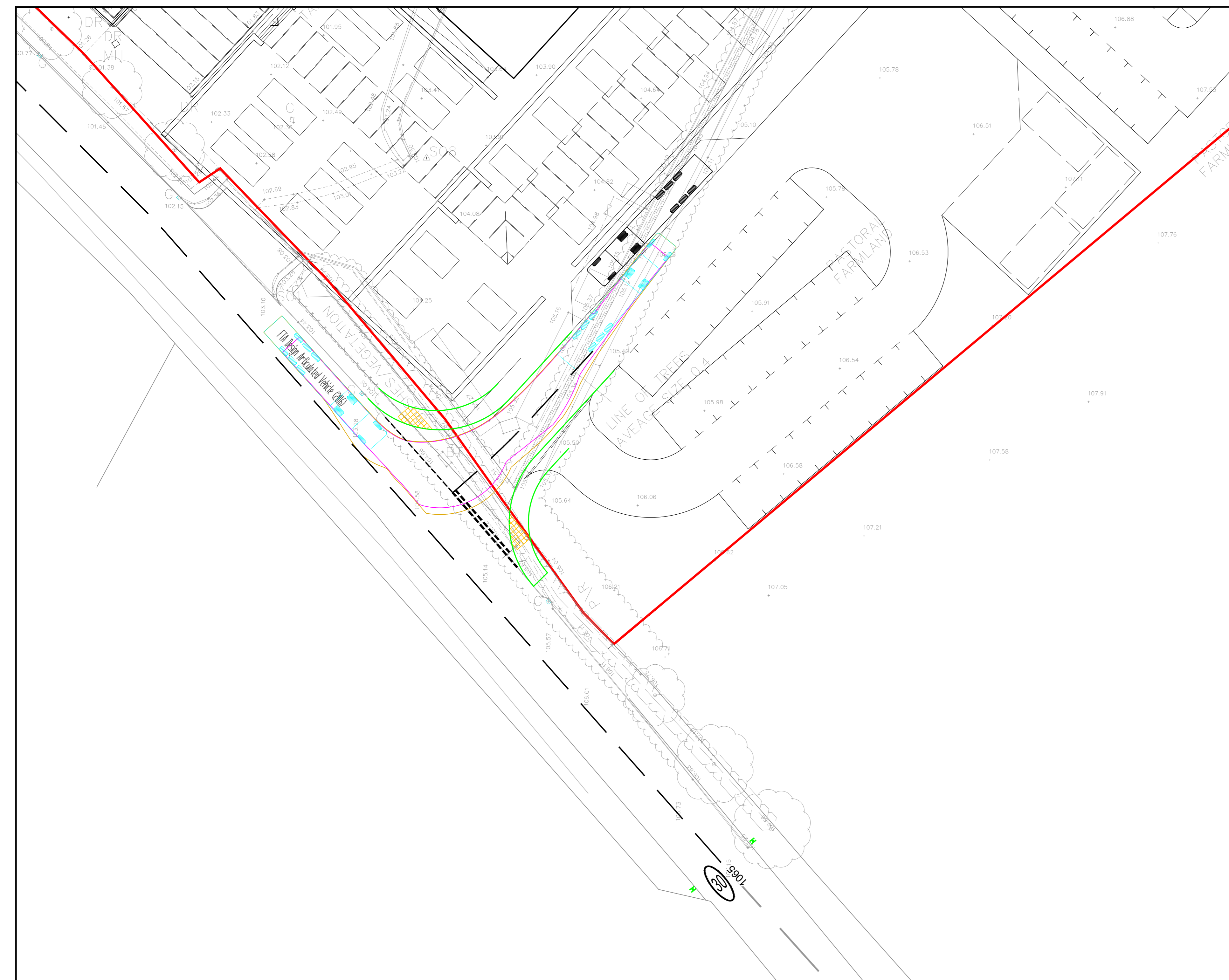
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DRAWING NUMBER: 4086-D002 REVISION: C

Eddisons



NOTES

FTA Design Articulated Vehicle (1998)
 Overall Length 16.480m
 Overall Width 2.550m
 Overall Body Height 5.870m
 Min Body Ground Clearance 0.315m
 Max Track Width 2.470m
 Lock to Lock Time 3.00s
 Kerb to Kerb Turning Radius 6.550m

Lancashire Refuse Vehicle
 Overall Length 9.860m
 Overall Width 2.450m
 Overall Body Height 3.814m
 Min Body Ground Clearance 0.366m
 Track Width 2.450m
 Lock to lock time 4.00s
 Kerb to Kerb Turning Radius 9.500m

REV	DETAILS	DRAWN	CHECKED	DATE	
CLIENT:	CSA				
PROJECT:	SHACKLETONS GARDEN CENTRE, LANCASHIRE				
DRAWING TITLE:	SWEEP PATH ANALYSIS				
SCALE:	1:250 @ A0				
DRAWN:	LB	CHECKED:	JC	DATE: MAR 24	
Croft Transport Planning & Design 340 Deansgate Manchester M3 4LY Email: info@crofts.co.uk Tel: 0161 837 7380 Web: www.eddisons.com/services/transport-planning					
DRAWING NUMBER:	4086-SP01			REVISION:	A



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