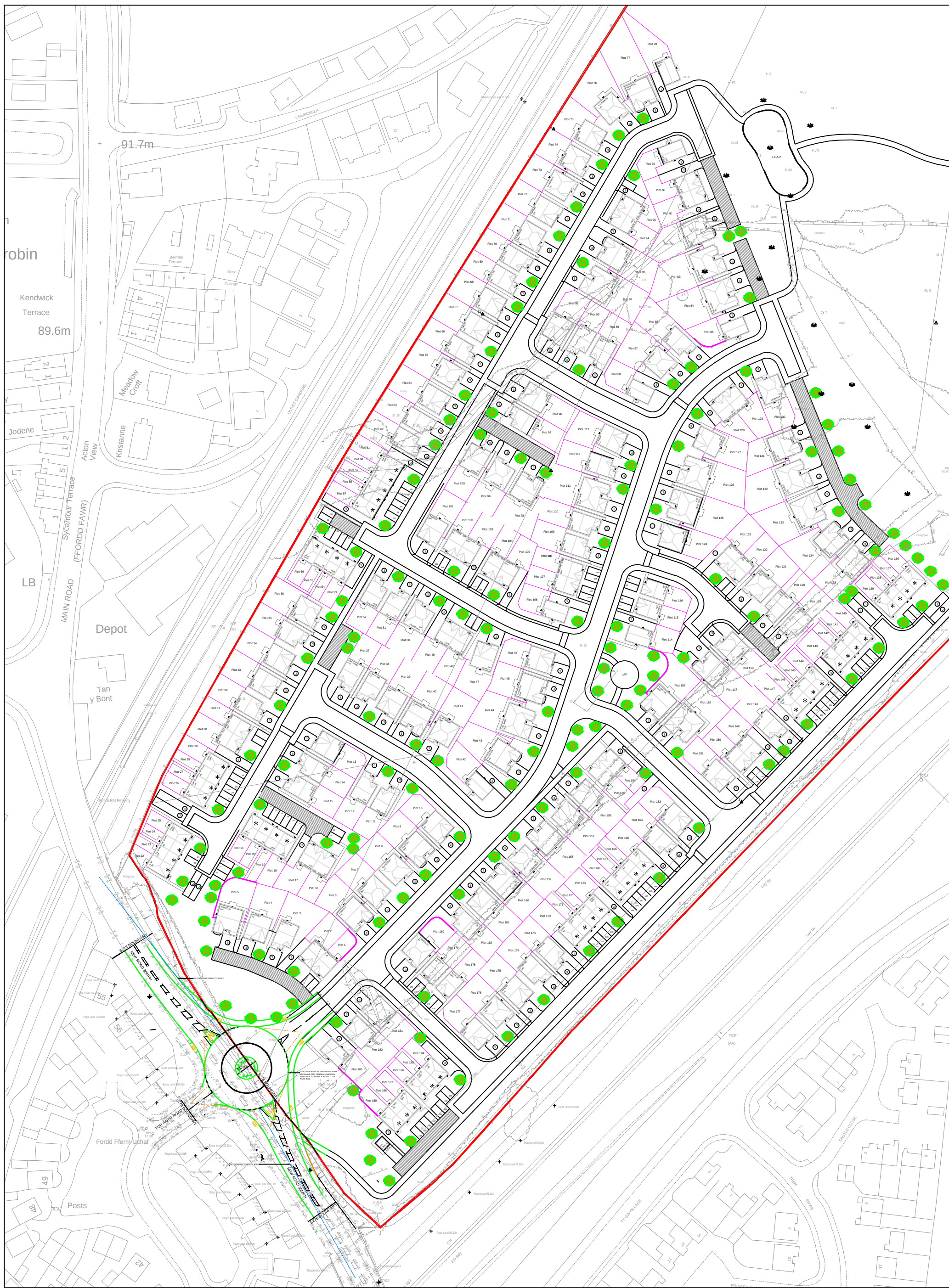
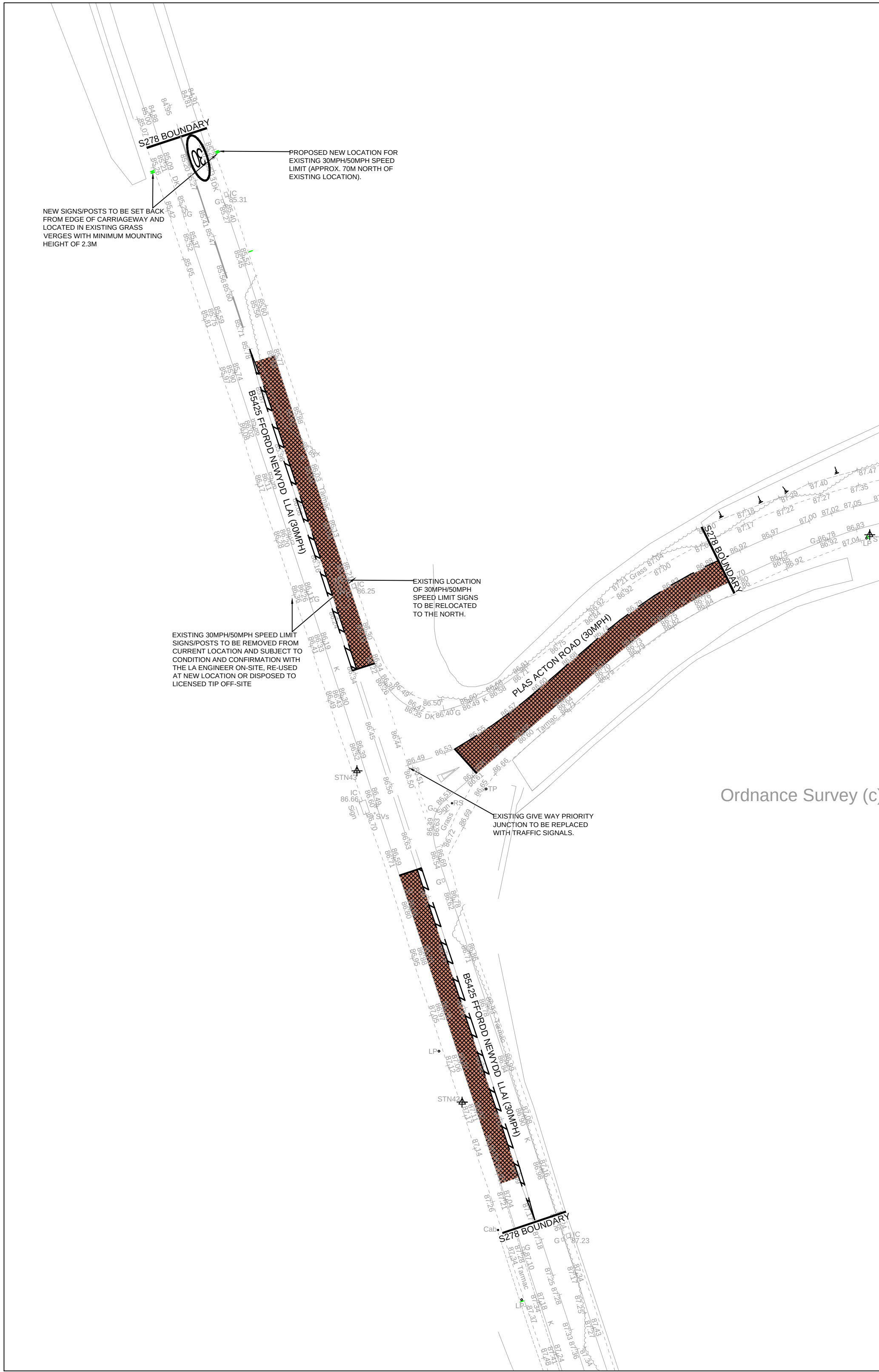
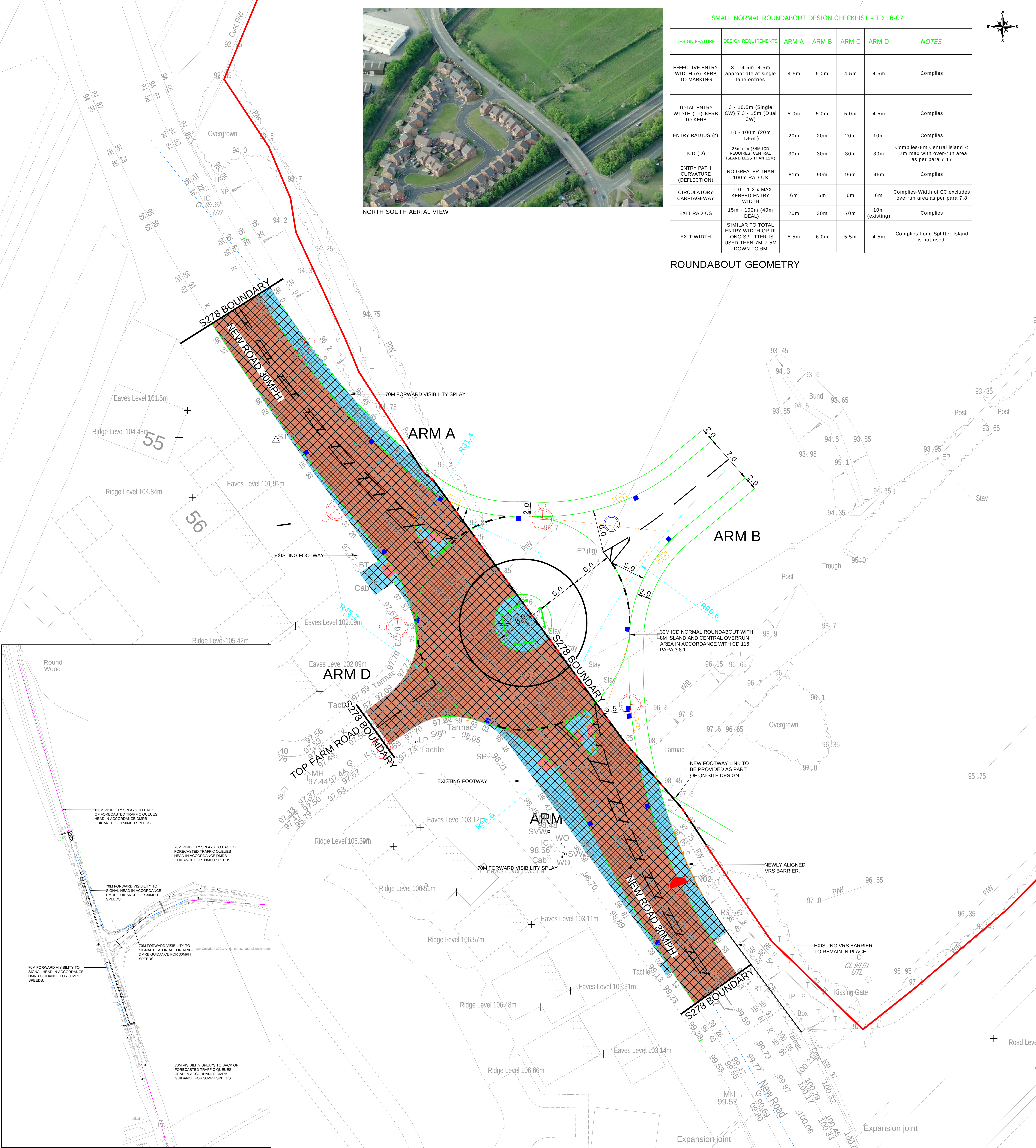




SITE LAYOUT @ 1:1250 SCALE



S278 WORKS TO B5425/PLAS ACTION ROAD JUNCTION @ 1:500 SCALE



VISIBILITY SPLAYS @ 1:1250 SCALE



NORTH SOUTH AERIAL VIEW

SMALL NORMAL ROUNDABOUT DESIGN CHECKLIST - TD 16-07

DESIGN FEATURE	DESIGN REQUIREMENTS	ARM A	ARM B	ARM C	ARM D	NOTES
EFFECTIVE ENTRY WIDTH (e)-KERB TO MARKING	3 - 4.5m, 4.5m appropriate at single lane entries	4.5m	5.0m	4.5m	4.5m	Complies
TOTAL ENTRY WIDTH (Te)-KERB TO KERB	3 - 10.5m (Single CW) 7.3 - 15m (Dual CW)	5.0m	5.0m	5.0m	4.5m	Complies
ENTRY RADIUS (r)	10 - 100m (20m IDEAL)	20m	20m	20m	10m	Complies
ICD (D)	28m min (34m ICD REQUIRES CENTRAL ISLAND LESS THAN 12M)	30m	30m	30m	30m	Complies-8m Central island < 12m max with over-run area as per para 7.1.7
ENTRY PATH CURVATURE (DEFLECTION)	NO GREATER THAN 100m RADIUS	81m	90m	96m	46m	Complies
CIRCULATORY CARRIAGEWAY	1.0 - 1.2 x MAX. KERBED ENTRY WIDTH	6m	6m	6m	6m	Complies-Width of CC excludes overrun area as per para 7.8
EXIT RADIUS	15m - 100m (40m IDEAL)	20m	30m	70m	10m (existing)	Complies
EXIT WIDTH	SIMILAR TO TOTAL ENTRY WIDTH OR IF LONG SPLITTER IS USED THEN 7M-7.5M DOWN TO 5M	5.5m	6.0m	5.5m	4.5m	Complies-Long Splitter Island is not used.

ROUNDABOUT GEOMETRY

NOTES

1. ALL ADAPTABLE SEWERS AND ASSOCIATED WORKS ARE TO COMPLY FULLY WITH 'TENDERS FOR ADOPTION' 7TH EDITION. ALL DRAWINGS ARE TO BE RELEVANT TO CONSTRUCTION WITH THE CLIENT'S DRAWINGS PRIOR TO COMMENCING ANY WORKS AND ANY DISCREPANCIES WITH BOUNDARIES, ELEVATIONS, EARTHWORKS OR OTHERWISE REPORTED IMMEDIATELY TO THE ENGINEER PRIOR TO WORKS COMMENCING.
2. ALL HIGHWAY AND DRAINAGE WORKS TO BE TO ADAPTABLE STANDARDS AND SHALL COMPLY FULLY WITH THE LOCAL AUTHORITY'S SPECIFICATION APPROVED STANDARDS AND THE RELEVANT SECTIONS OF THE DESIGN MANUAL FOR ROADS AND BRIDGES. SPECIFICATIONS FOR HIGHWAY WORKS AND BRIDGE STANDARDS SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF THE WORKS UNLESS OTHERWISE STATED. ALL WORKS ARE TO BE INSPECTED BY L.A. AND/OR STATUTORY AUTHORITY AS APPLICABLE.
3. ANY PRIVATE WORKS ARE TO COMPLY FULLY WITH THE LATEST EDITIONS OF THE BUILDING REGULATIONS.
4. ALL EXISTING EXPOSURE, INVERT 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 TORSIONLESS SURVEY INFORMATION PROVIDED BY THE CLIENT. ANY DISCREPANCIES BETWEEN THE EXISTING DRAWINGS AND THE ACTUAL SITUATION SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER PRIOR TO CONSTRUCTION.
5. ALL STATUTORY CONSENTS, PERMITS, ETC. ARE REQUIRED PRIOR TO COMMENCING ANY WORKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSENTS AND PERMITS PRIOR TO COMMENCING ANY WORKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSENTS AND PERMITS PRIOR TO COMMENCING ANY WORKS.
6. ALL ROADWORKS TO BE LAID IN ACCORDANCE WITH THE REQUIREMENTS OF THE TRAFFIC SIGNS MANUAL PART 1, TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS. ROADWORKING MATERIALS, LAYING AND FINISHES WITH THE LOCAL AUTHORITY. ALL SIGNS TO COMPLY WITH BS 6841 AND ITS NATIONAL INDEX. TYPE OF POSTS, FINISHES AND LIGHTING UNITS/STANDARDS TO BE AGREED WITH LA STREETLIGHTING ENGINEER PRIOR TO ORDERING. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE PROVISION OF ALL REQUIRED EQUIPMENT AND ELECTRICAL SERVICES TO LIGHTING AND ANY SIGNALS PRIOR TO WORKS COMMENCING. CONTRACTOR TO MAKE ALLOWANCE FOR ANY LEADING WORKS WHERE STATION APPROVED METHODS TO BE WITHIN THE AREA OF HIGHWAY WORKS.
7. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL ADVANCE NOTICES ARE IN PLACE AND TRAFFIC MANAGEMENT ARRANGEMENTS ARE IN PLACE PRIOR TO COMMENCING. THE CONTRACTOR IS TO MAKE ALLOWANCE FOR THE ADVANCE PROVISION OF ALL ELECTRICAL WORKS AND EQUIPMENT FOR SIGNALS AND STREETLIGHTING WITHIN THE PROGRAMME OF WORKS.
8. THE FULL DESIGNER AND CONTRACTOR ARE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE ROUNDABOUT. THE CONTRACTOR IS TO MAKE ALLOWANCE FOR THE ADVANCE PROVISION OF ALL ELECTRICAL WORKS AND EQUIPMENT FOR SIGNALS AND STREETLIGHTING WITHIN THE PROGRAMME OF WORKS.
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1. TRAFFIC MANAGEMENT ARRANGEMENTS TO BE IN PLACE PRIOR TO COMMENCING.
2. GUARDING TO EDGES OF EXCAVATIONS TO PREVENT PEOPLE, MATERIALS AND VEHICLES FALLING INTO EXCAVATION.
3. GUARDING OF EXCAVATIONS OUTSIDE WORKING HOURS TO PREVENT UNAUTHORISED ACCESS.
4. UNDERSTANDING TO AVOIDING ROADWORKS OR STRUCTURES.
5. CONSTRUCTION OF EXISTING ROADWORKS.
6. DEALING WITH EXISTING SERVICES.
7. TRAFFIC MANAGEMENT ON EXISTING HIGHWAYS AND PROTECTION OF SITE PERSONNEL AND MEMBERS OF THE PUBLIC.
8. NOTICES ARE TO BE FOLLOWED IN EVENT OF ACCIDENT OR EMERGENCY.
9. METHODS OF WORKING MUST BE COMPLETED PRIOR TO COMMENCING.
10. CONFIRMATION WILL BE REQUIRED THAT ALL OPERATIONS ARE ADEQUATELY TRAINED. COPIES OF RELEVANT TRAINING CERTIFICATES TO BE SUPPLIED.
11. ANY CONSTRUCTION PERSONNEL, INCLUDING OPERATIVES INTENDING TO CONSTRUCT THE DESIGN SHOWN ON THIS DRAWING, SHOULD PROVE THAT THEY ARE COMPETENT TO PERFORM THE WORKS.
12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL ADVANCE NOTICES ARE IN PLACE AND TRAFFIC MANAGEMENT ARRANGEMENTS ARE IN PLACE PRIOR TO COMMENCING. THE CONTRACTOR IS TO MAKE ALLOWANCE FOR THE ADVANCE PROVISION OF ALL ELECTRICAL WORKS AND EQUIPMENT FOR SIGNALS AND STREETLIGHTING WITHIN THE PROGRAMME OF WORKS.
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- THE ABOVE LIST IS BY NO MEANS EXHAUSTIVE BUT DOES HIGHLIGHT OPERATIONS THAT PRESENT A RISK TO CONTRACTORS AND THE GENERAL PUBLIC.
- INDICATIVE SITE BOUNDARY
 - EXISTING ROAD MARKINGS
 - PROPOSED ROAD MARKINGS
 - SECTION 278 WORKS
 - CARRIAGEWAY (brown)
 - FOOTWAY (blue)
 - SERVICE STRIP (green)
 - FOOTWAY LINK/PEDESTRIAN CROSSING (pink)
 - EASEMENT (yellow)
 - STREET LIGHTING (red)
 - GULLEY (dark blue)
 - SITE BOUNDARY (red)

REV	DETAILS	DRAWN	CHECKED	DATE
1	CASTLE GREEN			
2	MAIN ROAD, WREXHAM			
3	S278 GENERAL ARRANGEMENT			
4	SCALES: 1:200/1:500 @ A0			
5	DRAWN: JC	CHECKED: MC	DATE: MAR 21	
6	Croft Transport Planning & Design 340 Deansgate Manchester M3 4LY Email: info@crofts.co.uk Tel: 0161 827 7500 Web: www.eddisons.com/services/transport-planning			
7	DRAWING NUMBER: 3311-D007			
8	Eddisons	Incorporating	Croft	