## ROAD MARKING SCHEDULE

| DIAG. No. | LINE | GAP | WIDTH | SIZE | COLOUR | NOTES |
|---|---|---|---|---|---|---|
| 1001 | - | - | 200 | - | WHITE | STOP LINE AT CROSSING |
| 1003.1 | 1000 | 1000 | 200 | - | WHITE | GIVE WAY MARKINGS AT RBT |
| 1004 | 4000 | 2000 | 100 | - | WHITE | CENTRE LINE MARKINGS |
| 1040 | 4000 | 2000 | 100 | - | WHITE | TAPER MARKINGS |
| 1040 (HATCHING) | - | 3000 | 150 | - | WHITE | INTERNAL HATCHING |

ROAD MARKINGS

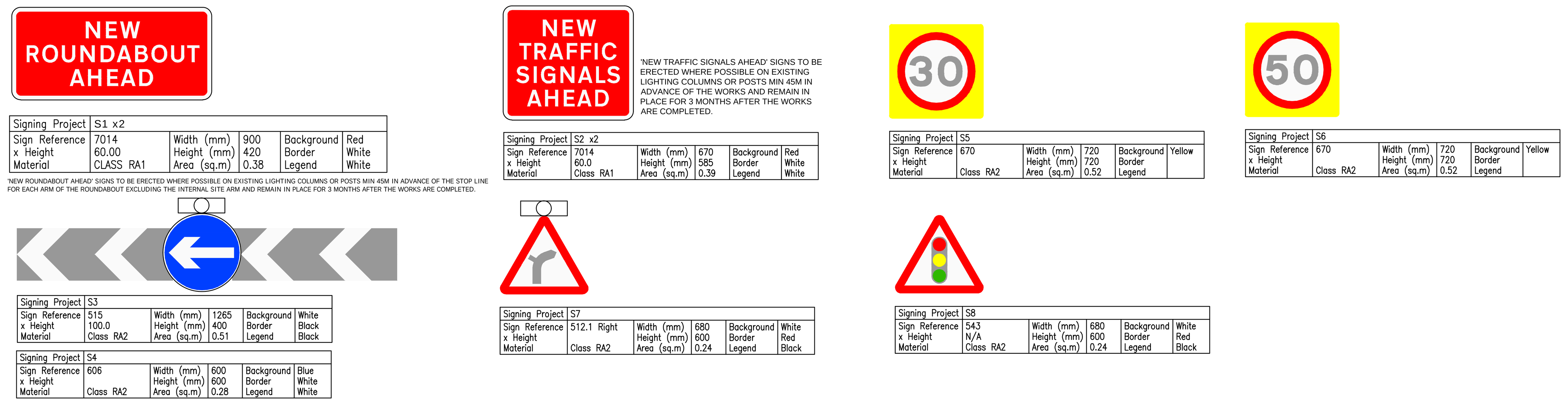
ALL AFFECTED/REDUNDANT EXISTING MARKINGS SHALL BE REMOVED IN ACCORDANCE WITH SUB CLAUSE 1212.18 OF THE SPECIFICATION FOR HIGHWAY WORKS AND A METHOD APPROVED BY THE LA ENGINEER. ROAD MARKINGS IN ACCORDANCE WITH BS EN1436. EQUIVALENT SKID RESISTANCE TO BE PROVIDED BETWEEN ROAD MARKINGS AND ADJACENT SURFACING. ALL MANHOLE COVERS WITHIN WHEELTRACK AREAS TO HAVE HIGH FRICTION COVERS TO SUIT ADJACENT SURFACING.

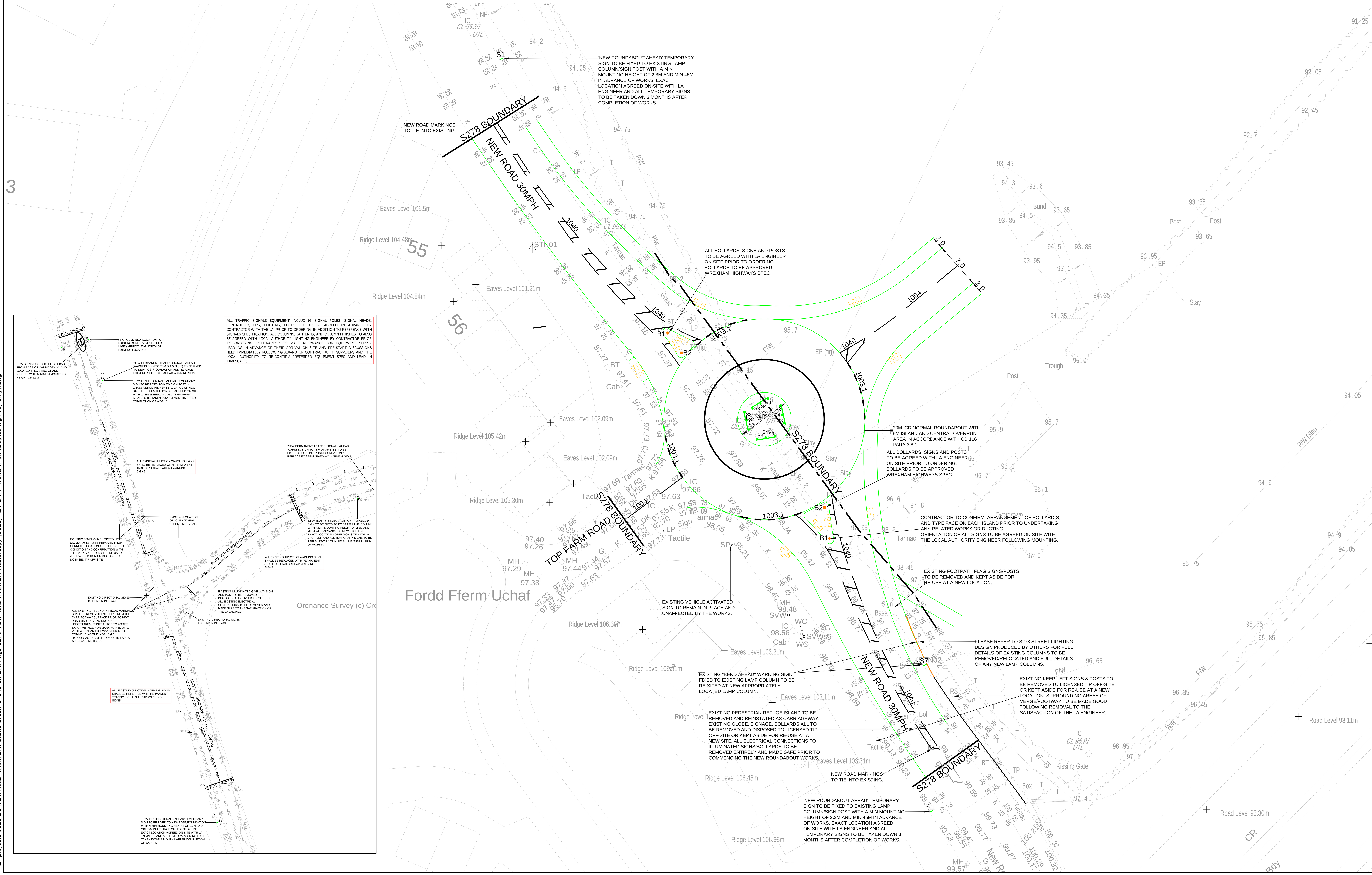
SIGN FOUNDATIONS, POSTS AND LIGHTING COLUMNS

PRIOR TO ORDERING THE CONTRACTOR IS TO AGREE/CHECK ALL SIGN POST/LIGHTING COLUMN MATERIALS, DIMENSIONS AND FINISHES WITH THE LOCAL AUTHORITY ENGINEER. ALL SIGNS TO BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH BS EN 12899.

## TRAFFIC SIGN SCHEDULE

| REF. | DIAG.NO | DIMENSION | DESCRIPTIVE TEXT | ILLUMINATION REQUIREMENT | POST & FOUNDATION | NOTES |
|---|---|---|---|---|---|---|
| S1 X2 | 7014 | W900xH420 | NEW ROUNDABOUT AHEAD | NON-ILLUMINATED-2.3M MOUNTING HEIGHT | FIXED TO APPROPRIATE LIGHTING COLUMNS MIN 45M IN ADVANCE OF WORKS | TEMPORARY SIGNS TO BE TAKEN DOWN 3 MONTHS FOLLOWING COMPLETION OF WORKS. |
| S2 x3 | 7014 | W670xH585 | NEW TRAFFIC SIGNALS AHEAD | NON-ILLUMINATED-2.3M MOUNTING HEIGHT | 1X76MMX3.2 CHS W350XD600XL600MM | TEMPORARY SIGNS TO BE TAKEN DOWN 3 MONTHS FOLLOWING COMPLETION OF WORKS. |
| S3 x8 | 515 | W1265xH400 | SHARP DEVIATION OF ROUTE | NON-ILLUMINATED-1.0M MOUNTING HEIGHT | 2X76MMX3.2 CHS W350XD600XL600MM | |
| S4 x4 | 606 | 600 DIA | KEEP LEFT | ILLUMINATED-1.0M MOUNTING HEIGHT | 1X76MMX3.2 CHS (WIDE BASED) W350XD600XL600MM | |
| S5 x2 | 670 | W720xH720 (INC. YELLOW BACKING BOARD) | 30MPH SPEED LIMIT | NON-ILLUMINATED-2.3M MOUNTING HEIGHT | 1X76MMX3.2 CHS W350XD600XL600MM | |
| S6 x2 | 670 | W720xH720 (INC. YELLOW BACKING BOARD) | 50MPH SPEED LIMIT | NON-ILLUMINATED-2.3M MOUNTING HEIGHT | FIXED BACK TO BACK WITH S5'S | |
| S7 | 512.1 | W680xH600 | BEND AHEAD WARNING SIGN | ILLUMINATED-2.3M MOUNTING HEIGHT | FIXED TO APPROPRIATE LIGHTING COLUMN AS EXISTING | |
| S8 x2 | 543 | W680xH600 | TRAFFIC SIGNAL WARNING SIGN | NON-ILLUMINATED-2.89M MOUNTING HEIGHT (ABOVE S2) | FIXED ABOVE S2 | |
| B1 | 610 | AS SUPPLIED ON BOLLARD APPROX 300MM | EVO-N BOLLARD BY TMP SOLUTIONS. CONTRACTOR TO AGREE EXACT SPEC WITH LA ENGINEER PRIOR TO ORDERING. | RETRO-REFLECTIVE WITH KEEP LEFT ASPECT WITH NAL SOCKET | REFER TO MANUFACTURERS INSTRUCTIONS | |
| B2 | PLAIN FACED | AS SUPPLIED | EVO-N BOLLARD BY TMP SOLUTIONS. CONTRACTOR TO AGREE EXACT SPEC WITH LA ENGINEER PRIOR TO ORDERING. | RETRO-REFLECTIVE WITH PLAIN ASPECT WITH NAL SOCKET | REFER TO MANUFACTURERS INSTRUCTIONS | |




## NOTES

1. ALL ADOPTABLE SEWERS AND ASSOCIATED WORKS ARE TO COMPLY FULLY WITH "SEWERS FOR ADOPTION" 7TH EDITION. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ON-SITE DRAWINGS PRIOR TO UNDERTAKING ANY WORKS AND ANY DISCREPANCIES WITH BOUNDARIES, FENCELINES, EARTHWORKS OR OTHERWISE REPORTED IMMEDIATELY TO THE ENGINEER PRIOR TO WORKS COMMENCING.

2. ALL HIGHWAY AND DRAINAGE WORKS TO BE TO ADOPTABLE STANDARDS AND SHALL COMPLY FULLY WITH THE LOCAL AUTHORITY SPECIFICATION, APPROVED STANDARD DETAILS AND THE RELEVANT SECTIONS OF THE DESIGN MANUAL FOR ROADS AND BRIDGES, SPECIFICATION FOR HIGHWAY WORKS AND BRITISH STANDARDS. CONTRACTOR TO ENSURE POSITIVE DRAINAGE TO ALL GULLIES PRIOR TO UNDERTAKING ANY PAVEMENT WORKS.

3. ANY PRIVATE WORKS ARE TO COMPLY FULLY WITH THE LATEST EDITIONS OF THE BUILDING REGULATIONS

4. ALL EXISTING STATIONS, INVERT LEVELS AND DRAINAGE NETWORK 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 DRAWINGS TO BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION

5. ALL MATERIALS TO BEAR THE RELEVANT B.S.KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL MATERIALS TO BE AGREED WITH THE OVERSEEING LOCAL AUTHORITY REPRESENTATIVE PRIOR TO ORDERING. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT (UNLESS THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR)

6. ALL STATUTORY CONSENTS, OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS AND WATER INDUSTRIES 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., NHBC OR STATUTORY AUTHORITY AS APPLICABLE.

7. CONTRACTOR TO MAKE ADVANCE ALLOWANCE FOR THE MANAGEMENT AND COORDINATION OF STATUTORY UNDERTAKERS DIVERSIONS WITHIN THEIR PROGRAMME OF WORKS. PRESENCE OF STATUTORY UNDERTAKERS EQUIPMENT IN THE HIGHWAY SHOULD BE VERIFIED BY THE CONTRACTOR ON SITE PRIOR TO STARTING ANY WORKS. THE LOCATION OF STATUTORY PLANT SHOWN ON ANY PLANS IS INDICATIVE ONLY AND SHOULD NOT BE RELIED UPON FOR THE LOCATION OF ANY PIPEWORK OR CABLING. THE CONTRACTOR SHOULD CONFIRM THE LOCATION OF ALL STATS PLANT BY HAND DUG TRIAL TRENCHES PRIOR TO COMMENCING ANY WORKS. ALLOWANCE FOR THE PRESENCE OF ALL STATS APPROPRIATE PROTECTION / DIVERSION MEASURES (INCORPORATING SPLIT DUCT AND 150MM CONCRETE SURROUND OR SIMILAR STATUTORY APPROVED METHOD) IS TO BE PUT IN PLACE BY THE CONTRACTOR (UNLESS STATED OTHERWISE) WHERE STATS EQUIPMENT ARE FOUND TO BE WITHIN THE AREA OF HIGHWAY WORKS.

8. PRIOR TO ORDERING THE CONTRACTOR IS TO AGREE ALL SIGN POST/LIGHTING COLUMN MATERIALS AND FINISHES WITH THE LOCAL AUTHORITY. ALL SIGNS TO COMPLY WITH BS EN 12899:2007 AND ITS NATIONAL ANNEX. TYPE OF POSTS, FINISHES AND LIGHTING UNITS/COLUMNS TO BE AGREED WITH LA STREETLIGHTING ENGINEER PRIOR TO ORDERING. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE PROVISION OF ALL REQUIRED EQUIPMEMT AND ELECTRICAL FEEDS TO LIGHTING AND ANY SIGNALS PRIOR TO WORKS COMMENCING, CONTRACTOR TO MAKE ALLOWANCE FOR ANY LEAD-INS WITHIN THEIR PROGRAMME.

9. ALL ROADMARKINGS TO BE LAID IN ACCORDANCE WITH THE REQUIREMENTS OF THE TRAFFIC SIGNS MANUAL CHAPTER 5, TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS. ROADMARKING MATERIALS, LAYING AND PERFORMANCE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF BS EN 1436.ALL ACCESS COVERS WITHIN THE VICINITY OF THE WORKS TO HAVE HIGH FRICTION COVERS AND AGREED WITH LA ENGINEER. PSV OF ALL LINING AND COVERS TO SUIT ADJACENT SURFACING

10. 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 ADVANCE PROVISION OF ALL ELECTRICAL WORKS AND EQUIPMENT FOR SIGNALS AND STREETLIGHTING WITHIN THEIR PROGRAMME OF WORKS

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IN LINE WITH THE ABOVE REGULATIONS WE ARE OBLIGED TO INFORM THE CLIENT OF THE RISKS THAT MAY BE ENCOUNTERED IN THE CONSTRUCTION OF THESE WORKS. WHEREVER POSSIBLE RISKS HAVE BEEN ELIMINATED FROM THE DESIGN, HOWEVER DUE TO THE VERY NATURE OF THIS TYPE OF WORK IT IS NOT POSSIBLE TO REMOVE ALL THE RISKS FROM THE DESIGN. WE WOULD ALSO RESPECTFULLY REMIND THE CLIENT OF HIS OBLIGATIONS TO TAKE ALL REASONABLE STEPS IN ENSURING THAT ONLY COMPETENT CONTRACTORS WHO HAVE A VALID SAFETY POLICY ARE EMPLOYED. THEY SHOULD ALSO PROVIDE SATISFACTORY RESPONSES AT TENDER STAGE AS TO THE MANNER IN WHICH THEY WILL DEAL WITH THE ELEMENTS OF RISK INVOLVED IN THIS TYPE OF WORK AND IN PARTICULAR THOSE HIGHLIGHTED BY CROFT BELOW:-

1. TRENCH EXCAVATIONS IN EXCESS OF 1.2M DEEP.
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. UNDERMINING TO ADJACENT ROADS OR STRUCTURES.
5. CONFINED SPACE OPERATIONS.
6. DEALING WITH EXISTING SERVICES.
7. TRAFFIC MANAGEMENT ON EXISTING HIGHWAYS AND PROTECTION OF SITE PERSONNEL AND MEMBERS OF THE PUBLIC.
8. PROCEDURE TO BE FOLLOWED IN EVENT OF ACCIDENT OR EMERGENCY.
9. METHOD OF WORKING WHERE CONTAMINATED GROUND IS PRESENT ON SITE.
10. CONFIRMATION WILL BE REQUIRED THAT ALL OPERATIVES ARE ADEQUATELY TRAINED, COPIES OF RELEVANT TRAINING CERTIFICATES TO BE SUPPLIED.
11. ANY CONSTRUCTION PERSONNEL, INCLUDING OPERATIVES INTENDING TO CONSTRUCT THE DESIGNS SHOWN ON THIS DRAWING SHOULD ENSURE THAT THEY HAVE BEEN REGULARLY AND THOROUGHLY BRIEFED BY THE PRINCIPAL CONTRACTOR ON ALL HEALTH AND SAFETY MATTERS AND HAVE HAD SIGHT OF:

I) THE FULL DESIGNERS AND CONTRACTORS RISK ASSESSMENTS AND RISK REGISTERS.
II) THE DEVELOPED CONSTRUCTION HEALTH AND SAFETY PLAN
III) THE CONTRACTORS CONSTRUCTION METHOD STATEMENTS.

THE ABOVE LIST IS BY NO MEANS EXHAUSTIVE BUT IT DOES HIGHLIGHT OPERATIONS THAT PRESENT A RISK TO CONTRACTORS AND THE GENERAL PUBLIC.

GENERAL

ALL SIGNS TO COMPLY WITH BS EN 12899:2007 AND ITS NATIONAL ANNEX

LIGHTING UNITS/COLUMNS TO BE AGREED WITH LA STREETLIGHTING ENGINEER PRIOR TO ORDERING. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE PROVISION OF ALL REQUIRED EQUIPMEMT AND ELECTRICAL FEEDS TO LIGHTING AND SIGNALS PRIOR TO WORKS COMMENCING, CONTRACTOR TO MAKE ALLOWANCE FOR ANY LEAD-INS WITHIN THEIR PROGRAMME.

THE CONTRACTOR IS TO REFER TO STANDARD DETAILS AS SUPPLIED FOR CONSTRUCTION DETAILS RELATING TO THE WORKS. ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS. 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 PROVISION OF ALL ELECTRICAL WORKS AND EQUIPMENT FOR SIGNALS AND STREETLIGHTING AND PROVISION OF STATUTORY DIVERSIONS WITHIN THEIR PROGRAMME OF WORKS, PRIOR TO ARRIVAL ON SITE.

SIGN POSTS LINING AND LIGHTING COLUMNS

1. PRIOR TO ORDERING THE CONTRACTOR IS TO AGREE ALL SIGN POST/LIGHTING COLUMN MATERIALS AND FINISHES WITH THE LOCAL AUTHORITY ENGINEER.
2. ALL SIGNS TO COMPLY WITH BS EN 12899:2007 AND ITS NATIONAL ANNEX.
3. ALL SIGNS TO HAVE A MINIMUM CLEARANCE OF 450MM FROM THE CARRIAGEWAY AND 2.1M TO UNDERSIDE OF SIGN.
4. ALL NEW ROAD MARKINGS TO BE THEROMOPLASTIC UNLESS SPECIFIED OTHERWISE IN ACCORDANCE WITH BS EN 1871 WITH SURFACE TREATMENT CONFORMING TO CLAUSES 1212 OF THE SPECIFICATION AND ALL MARKINGS SHALL HAVE PERFORMANCE REQUIREMENTS IN ACCORDANCE WITH BS EN 1436.
5. ALL MARKINGS TO BE LAID IN ACCORDANCE WITH THE TRAFFIC SIGNS MANUAL CHAPTER 5 WITH A MINIMUM THICKNESS OF 3MM IN ACCORDANCE WITH THE SPECIFICATION. PRIMER TO BE APPLIED AS NECESSARY AND THE CARRIAGEWAY SURFACE FOR ALL NEW MARKINGS SHALL BE CLEAN, DRY AND FREE FROM DEBRIS/DUST.
6. ALL REDUNDANT MARKINGS TO BE REMOVED IN ACCORDANCE WITH SUB CLAUSE 1212.18 OF THE SHW AN A METHOD AGREED WITH THE LA ENGINEER TO BS EN 1871 AND BS EN 1824. CONTRACTOR/CLIENT TO MAKE ALLOWANCE FOR POTENTIAL REQUIREMENT OF RESURFACING IN AREAS WHERE LINING ARE REMOVED SUBJECT TO CONDITION OF SURFACING FOLLOWING THE WORKS.
7. ALL NEW MARKINGS TO HAVE EQUIVALENT PSV TO ADJACENT SURFACING IN ACCORDANCE WITH BS EN 1436.
8. ALL MANHOLE AND ACCESS COVERS WITHIN WHEELTRACKS TO HAVE HIGH FRICTION COVERS TO MATCH ADJACENT SURFACING PSV.

| REV | DETAILS | DRAWN | CHECKED | DATE |
|---|---|---|---|---|
| E | REVISED FOLLOWING SIGNAGE COMMENTS | JC | MC | MAR 22 |
| D | BOUNDARY AMENDMENTS | JC | MC | JAN 22 |
| C | REVISED IN LINE WITH WREXHAM COMMENTS | JC | MC | SEP 21 |
| B | REVISED IN LINE WITH WREXHAM COMMENTS | JC | MC | JUL 21 |
| A | REVISED IN LINE WITH STAGE 1/2 RSA | JC | MC | MAY 21 |

CLIENT: CASTLE GREEN

PROJECT: MAIN ROAD, WREXHAM

DRAWING TITLE: S278/S38 SIGNS & MARKINGS

SCALES: 1:200/1:500 @ A0

DRAWN: JC | CHECKED: MC | DATE: MAR 21


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Tel: 0161 837 7380
Web: www.eddisons.com/services/transport-planning


DRAWING NUMBER: 3311-D003 | REVISION: E

Eddisons Incorporating Croft

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