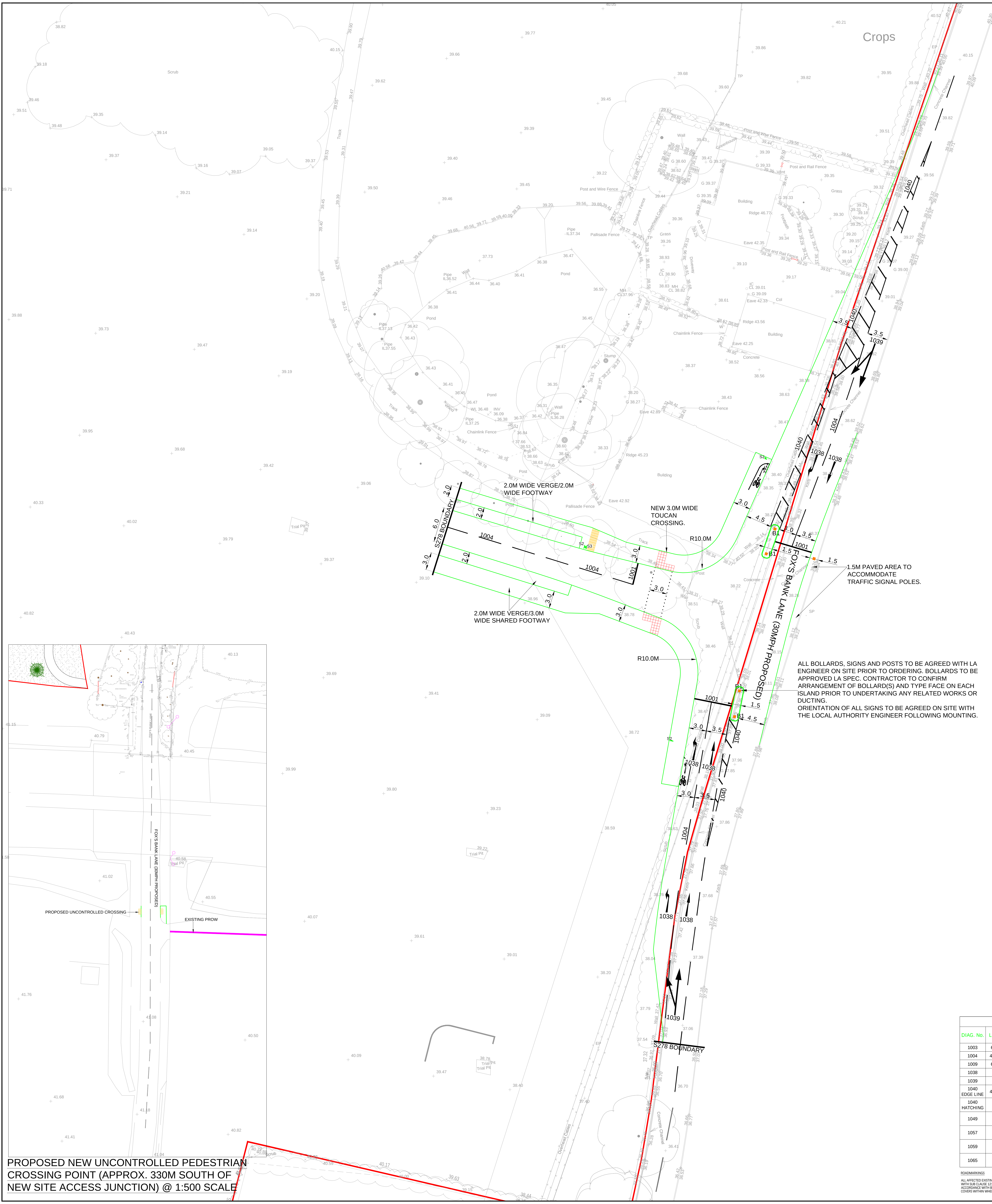
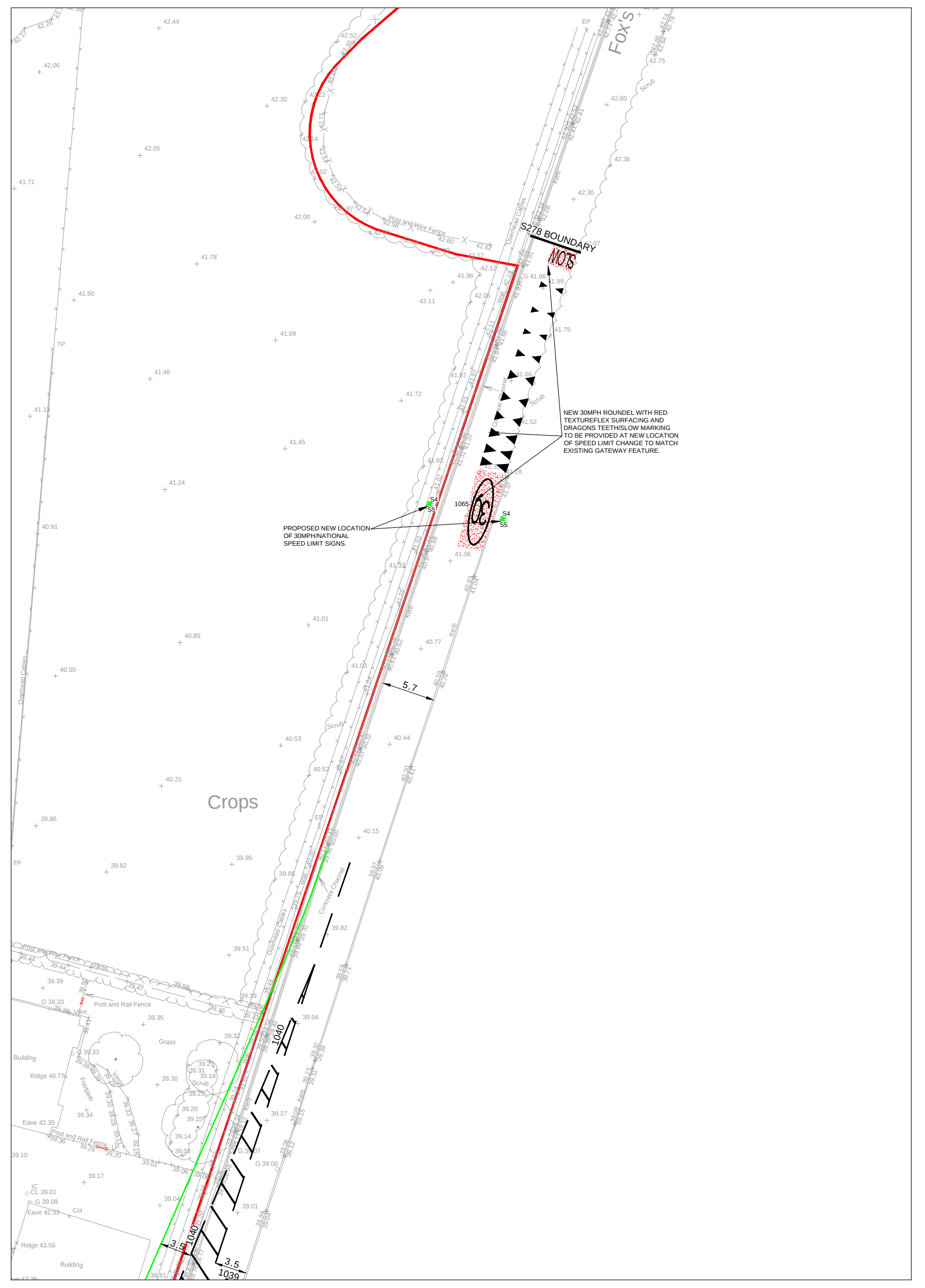

Crops
2.0M WIDE VERGE/2.0M WIDE FOOTWAY
NEW 3.0M WIDE TOUCAN CROSSING.
R10.0M
1.5M PAVED AREA TO ACCOMMODATE TRAFFIC SIGNAL POLES.
2.0M WIDE VERGE/3.0M WIDE SHARED FOOTWAY
FOX'S BANK LANE (30MPH PROPOSED)
S278 BOUNDARY
R10.0M
1004
1001
1040
1038
1039
S1
S2
S3
B1
3.0
3.5
4.5
6.0
2.0
1.5
PROPOSED UNCONTROLLED CROSSING
EXISTING PROW
FOX'S BANK LANE (30MPH PROPOSED)

ALL BOLLARDS, SIGNS AND POSTS TO BE AGREED WITH LA ENGINEER ON SITE PRIOR TO ORDERING. BOLLARDS TO BE APPROVED LA SPEC. CONTRACTOR TO CONFIRM ARRANGEMENT OF BOLLARD(S) AND TYPE FACE ON EACH ISLAND PRIOR TO UNDERTAKING ANY RELATED WORKS OR DUCTING.
ORIENTATION OF ALL SIGNS TO BE AGREED ON SITE WITH THE LOCAL AUTHORITY ENGINEER FOLLOWING MOUNTING.

PROPOSED NEW UNCONTROLLED PEDESTRIAN CROSSING POINT (APPROX. 330M SOUTH OF NEW SITE ACCESS JUNCTION) @ 1:500 SCALE

Z:\projects\3251 DD Fox's Bank Signals, Knowsley, TW\CAD\Croft Drawings\S278 Fox's Bank Lane Signals Knowsley Mastercopy (3251) REV H.dwg


Crops
S278 BOUNDARY
NEW 30MPH ROUNDEL WITH RED TEXTUREFLEX SURFACING AND DRAGONS TEETH/SLOW MARKING TO BE PROVIDED AT NEW LOCATION OF SPEED LIMIT CHANGE TO MATCH EXISTING GATEWAY FEATURE.
PROPOSED NEW LOCATION OF 30MPH/NATIONAL SPEED LIMIT SIGNS.
1065
S4
S5
5.7
1040
1039
3.5
N
E
S
W

PROPOSED SPEED LIMIT LOCATION TO THE NORTH OF NEW JUNCTION @ 1:500 SCALE

# 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

C.D.M. REGULATIONS 2015

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.

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 REDUNDANT MARKINGS TO BE REMOVED IN ACCORDANCE WITH SUB CLAUSE 1212.18 OF THE SHW AND A METHOD TO BE AGREED WITH THE LOCAL AUTHORITY PRIOR TO COMMENCING. CONTRACTOR/CLIENT TO MAKE ALLOWANCE FOR POTENTIAL REQUIREMENT OF RESURFACING IN AREAS WHERE LINING ARE REMOVED SUBJECT TO CONDITION OF SURFACING FOLLOWING THE WORKS.

5. ALL NEW MARKINGS TO HAVE EQUIVALENT PSV TO ADJACENT SURFACING IN ACCORDANCE WITH BS EN 1436.

6. ALL MANHOLE AND ACCESS COVERS WITHIN WHEELTRACKS TO HAVE HIGH FRICTION COVERS TO MATCH ADJACENT SURFACING PSV. FORM OF ANTI SKID TO BE AGREED WITH LA ENGINEER PRIOR TO INSTALLATION.

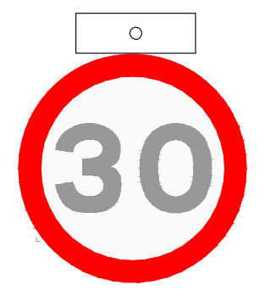
EXISTING REFELECTIVE ROAD STUDS WITHIN THE VICINITY OF THE WORKS TO BE REMOVED AND REPLACED AS NECESSARY PRIOR TO RESURFACING.

'NEW TRAFFIC SIGNALS AHEAD' SIGNS TO BE ERECTED WHERE POSSIBLE ON EXISTING LIGHTING COLUMNS OR POSTS MIN 45M IN ADVANCE OF THE STOP LINE FOR EACH ARM OF THE JUNCTION AND REMAIN IN PLACE FOR 3 MONTHS AFTER THE WORKS ARE COMPLETED.

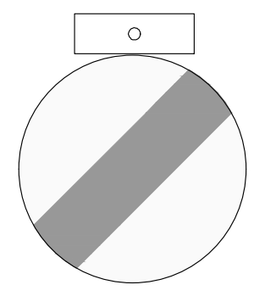
| | | | | | |
|---|---|---|---|---|---|
| Signing Project | S1 X2 | | | | |
| Sign Reference<br>x Height<br>Material | 7014<br>60.0<br>Class RA1 | Width (mm)<br>Height (mm)<br>Area (m²) | 670<br>585<br>0.39 | Background<br>Border<br>Legend | Red<br>White<br>White |

| | | | | | |
|---|---|---|---|---|---|
| Signing Project | S2 | | | | |
| Sign Reference<br>x Height<br>Material | 956<br>N/A<br>Class RA2 | Width (mm)<br>Height (mm)<br>Area (m²) | 450<br>450<br>0.16 | Background<br>Border<br>Legend | Blue<br>White<br>White |

| | | | | | |
|---|---|---|---|---|---|
| Signing Project | S3 | | | | |
| Sign Reference<br>x Height<br>Material | 965<br>50.0<br>Class RA2 | Width (mm)<br>Height (mm)<br>Area (m²) | 495<br>540<br>0.27 | Background<br>Border<br>Legend | Blue<br>White<br>White |



| | | | | | |
|---|---|---|---|---|---|
| Signing Project | S4 | | | | |
| Sign Reference<br>x Height<br>Material | 670<br>N/A<br>Class RA2 | Width (mm)<br>Height (mm)<br>Area (m²) | 750<br>750<br>0.44 | Background<br>Border<br>Legend | White<br>Red<br>Black |



| | | | | | |
|---|---|---|---|---|---|
| Signing Project | S5 | | | | |
| Sign Reference<br>x Height<br>Material | 671<br>N/A<br>Class RA2 | Width (mm)<br>Height (mm)<br>Area (m²) | 750<br>750<br>0.44 | Background<br>Border<br>Legend | Green<br>White<br>White |

## ROAD MARKING SCHEDULE

| DIAG. No. | LINE | GAP | WIDTH | SIZE | COLOUR | NOTES |
|---|---|---|---|---|---|---|
| 1003 | 600 | 300 | 200 | - | WHITE | 300L 150G 100W AT CYCLEWAY GIVE WAY |
| 1004 | 4000 | 2000 | 100 | - | WHITE | LANE LINE |
| 1009 | 600 | 300 | 100 | - | WHITE | LANE LINE |
| 1038 | - | - | - | 4000 | WHITE | LANE ARROW |
| 1039 | - | - | - | 8000 | WHITE | BIFURCATION ARROW |
| 1040 EDGE LINE | 4000 | 2000 | 100 | - | WHITE | INTERNAL HATCHING TO BE 150MM THICK |
| 1040 HATCHING | - | 3000 | 150 | - | WHITE | INTERNAL DIAGONAL HATCHING |
| 1049 | - | - | 150 | - | WHITE | CYCLEWAY LINE |
| 1057 | - | - | 1100 | 1780 | WHITE | CYCLE SYMBOL 1100X1780, 2750X1700 AT ASL |
| 1059 | - | | 500 | 2000 | WHITE | CYCLE LANE ARROW |
| 1065 | - | - | 1500 | 7500 | WHITE | 30MPH ROUNDEL MARKING |

ROADMARKINGS

ALL AFFECTED EXISTING MARKINGS OUTSIDE AREA OF FULL DEPTH CARRIAGEWAY CONSTRUCTION OR RESURFACING SHALL BE REMOVED IN ACCORDANCE WITH SUB CLAUSE 1212.18 OF THE SPECIFICATION FOR HIGHWAY WORKS AND A METHOD APPROVED BY THE LA ENGINEER. ROADMARKINGS IN ACCORDANCE WITH BS EN1436. EQUIVALENT SKID RESISTANCE TO BE PROVIDED BETWEEN ROADMARKINGS AND ADJACENT SURFACING. ALL MANHOLE COVERS WITHIN WHEELTRACK AREAS TO HAVE HIGH FRICTION COVERS TO SUIT ADJACENT SURFACING.

## TRAFFIC SIGN SCHEDULE

| REF. | DIAG.NO | DIMENSION | DESCRIPTIVE TEXT | ILLUMINATION REQUIREMENT | POST & FOUNDATION | NOTES |
|---|---|---|---|---|---|---|
| S1 x2 | 7014 | 670x585 | NEW TRAFFIC SIGNALS AHEAD | NON-ILLUMINATED-2.3M MOUNTING HEIGHT | TO BE MOUNTED TO EXISTING STREET FURNITURE WHERE POSSIBLE OR 76MMX3.2MM CHS 350X600X600MM | TEMPORARY SIGNS ARE TO BE MOUNTED ON STREET FURNITURE WHERE POSSIBLE WITH A MINIMUM MOUNTING HEIGHT OF 2.3M |
| S2 x2 | 956 | 450 DIA | SHARED USE CYCLEWAY | NON-ILLUMINATED-2.3M MOUNTING HEIGHT | HARDWOOD TIMBER POST 350X600X600MM | TIMBER POSTS IN ACCORDANCE WITH HALSNEAD DESIGN GUIDE. |
| S3 x2 | 965 | 440 X 300 | END OF CYCLEWAY | NON-ILLUMINATED-2.3M MOUNTING HEIGHT | HARDWOOD TIMBER POST 350X600X600MM | TIMBER POSTS IN ACCORDANCE WITH HALSNEAD DESIGN GUIDE. |
| S4 x4 | 670 | 750 DIA | 30MPH SPEED LIMIT | ILLUMINATED-2.3M MOUNTING HEIGHT | 76MMX3.2MM CHS 350X600X600MM (WIDE BASED) | TO BE MOUNTED BACK TO BACK WITH S7 |
| S5 x4 | 671 | 750 DIA | NATIONAL SPEED LIMIT | ILLUMINATED-2.3M MOUNTING HEIGHT | 76MMX3.2MM CHS 350X600X600MM (WIDE BASED) | TO BE MOUNTED BACK TO BACK WITH S6 |
| B1 | 610 | AS SUPPLIED ON BOLLARD 270MM APPROX | MALLATITE DURAFLEX | REFLECTORISED WITH KEEP LEFT ASPECT | REFER TO MANUFACTURERS INSTRUCTIONS | |

| REV | DETAILS | DRAWN | CHECKED | DATE |
|---|---|---|---|---|
| E | SITE ACCESS CROSSING REDUCED TO 3M/FOOTWAY AMENDS | JC | MC | SEP 23 |
| D | UPDATED TO LATEST GA | JC | MC | JAN 22 |
| C | REVISED IN LINE WITH KNOWSLEY COMMENTS & SPEED LIMIT | JC | MC | OCT 21 |
| B | REVISED IN LINE WITH KNOWSLEY COMMENTS & RSA | JC | MC | AUG 21 |
| A | S278 BOUNDARY AMENDED IN LINE WITH S38 BOUNDARY | JC | MC | MAR 21 |

CLIENT:
TAYLOR WIMPEY

PROJECT:
FOX'S BANK LANE, WHISTON, KNOWSLEY

DRAWING TITLE:
S278 SIGNS & MARKINGS

SCALES:
1:250 @ A0

DRAWN: JC
CHECKED: MC
DATE: JAN 21

Croft Transport Planning & Design
340 Deansgate
Manchester
M3 4LY

Email: info@croftts.co.uk
Tel: 0161 837 7380
Web: www.croftts.co.uk

DRAWING NUMBER: 3251-D003
REVISION: E

CROFT