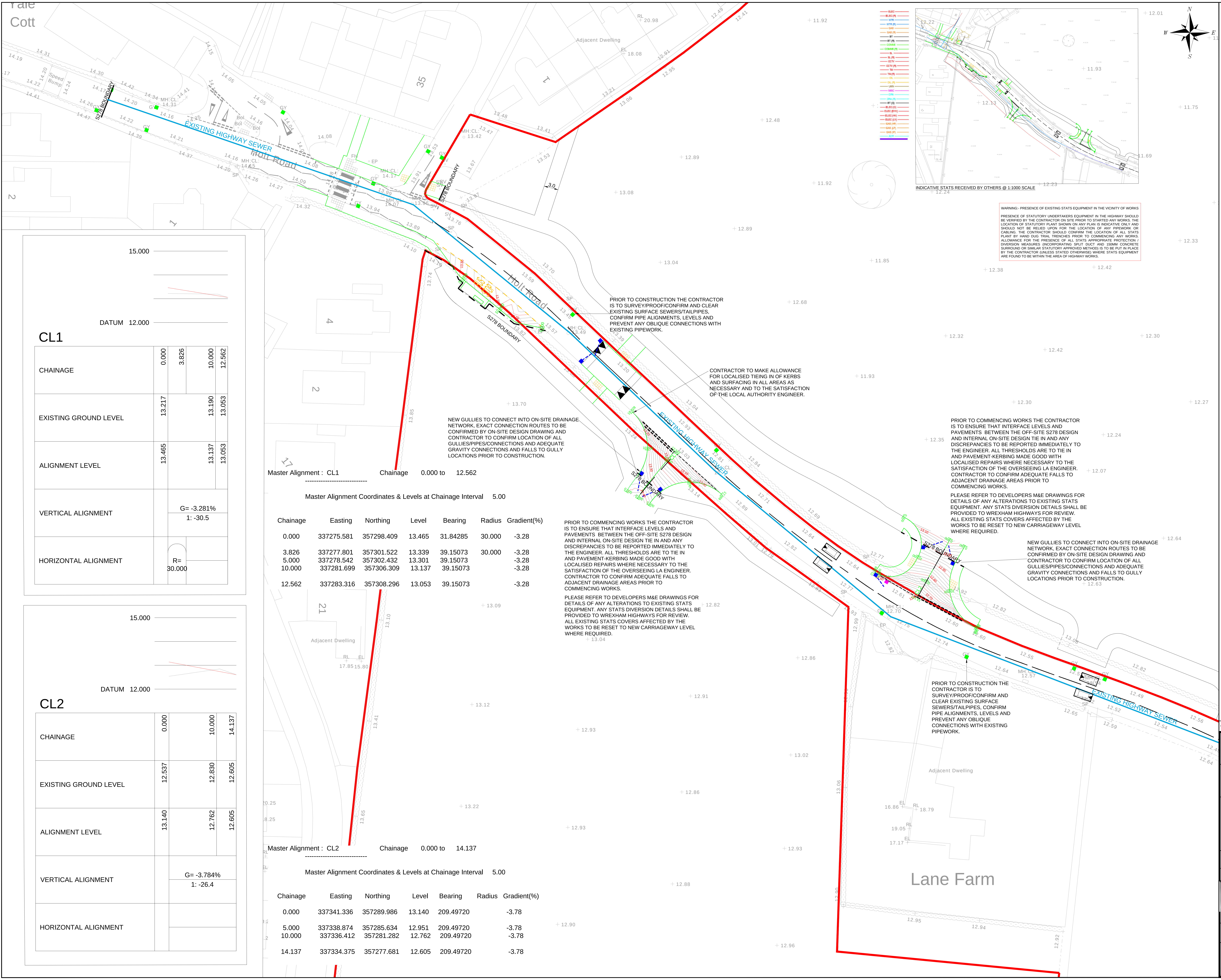

PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO SURVEY/PROOF/CONFIRM AND CLEAR EXISTING SURFACE SEWERS/TAILPIPES, CONFIRM PIPE ALIGNMENTS, LEVELS AND PREVENT ANY OBLIQUE CONNECTIONS WITH EXISTING PIPEWORK.

CONTRACTOR TO MAKE ALLOWANCE FOR LOCALISED TIEING IN OF KERBS AND SURFACING IN ALL AREAS AS NECESSARY AND TO THE SATISFACTION OF THE LOCAL AUTHORITY ENGINEER.

NEW GULLIES TO CONNECT INTO ON-SITE DRAINAGE NETWORK, EXACT CONNECTION ROUTES TO BE CONFIRMED BY ON-SITE DESIGN DRAWING AND CONTRACTOR TO CONFIRM LOCATION OF ALL GULLIES/PIPES/CONNECTIONS AND ADEQUATE GRAVITY CONNECTIONS AND FALLS TO GULLY LOCATIONS PRIOR TO CONSTRUCTION.

PRIOR TO COMMENCING WORKS THE CONTRACTOR IS TO ENSURE THAT INTERFACE LEVELS AND PAVEMENTS BETWEEN THE OFF-SITE S278 DESIGN AND INTERNAL ON-SITE DESIGN TIE IN AND ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO THE ENGINEER. ALL THRESHOLDS ARE TO TIE IN AND PAVEMENT-KERBING MADE GOOD WITH LOCALISED REPAIRS WHERE NECESSARY TO THE SATISFACTION OF THE OVERSEEING LA ENGINEER. CONTRACTOR TO CONFIRM ADEQUATE FALLS TO AREAS PRIOR TO COMMENCING WORKS.

PLEASE REFER TO DEVELOPERS M&E DRAWINGS FOR DETAILS OF ANY ALTERATIONS TO EXISTING STATS EQUIPMENT. ANY STATS DIVERSION DETAILS SHALL BE PROVIDED TO WREXHAM HIGHWAYS FOR REVIEW. ALL EXISTING STATS COVERS AFFECTED BY THE WORKS TO BE RESET TO NEW CARRIAGEWAY LEVEL WHERE REQUIRED.

PRIOR TO COMMENCING WORKS THE CONTRACTOR IS TO ENSURE THAT INTERFACE LEVELS AND PAVEMENTS BETWEEN THE OFF-SITE S278 DESIGN AND INTERNAL ON-SITE DESIGN TIE IN AND ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO THE ENGINEER. ALL THRESHOLDS ARE TO TIE IN AND PAVEMENT-KERBING MADE GOOD WITH LOCALISED REPAIRS WHERE NECESSARY TO THE SATISFACTION OF THE OVERSEEING LA ENGINEER. CONTRACTOR TO CONFIRM ADEQUATE FALLS TO DRAINAGE AREAS PRIOR TO COMMENCING WORKS.

PLEASE REFER TO DEVELOPERS M&E DRAWINGS FOR DETAILS OF ANY ALTERATIONS TO EXISTING STATS EQUIPMENT. ANY STATS DIVERSION DETAILS SHALL BE PROVIDED TO WREXHAM HIGHWAYS FOR REVIEW. ALL EXISTING STATS COVERS AFFECTED BY THE WORKS TO BE RESET TO NEW CARRIAGEWAY LEVEL WHERE REQUIRED.

NEW GULLIES TO CONNECT INTO ON-SITE DRAINAGE NETWORK, EXACT CONNECTION ROUTES TO BE CONFIRMED BY ON-SITE DESIGN DRAWING AND CONTRACTOR TO CONFIRM LOCATION OF ALL GULLIES/PIPES/CONNECTIONS AND ADEQUATE GRAVITY CONNECTIONS AND FALLS TO GULLY LOCATIONS PRIOR TO CONSTRUCTION.

PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO SURVEY/PROOF/CONFIRM AND CLEAR EXISTING SURFACE SEWERS/TAILPIPES, CONFIRM PIPE ALIGNMENTS, LEVELS AND PREVENT ANY OBLIQUE CONNECTIONS WITH EXISTING PIPEWORK.

WARNING:- PRESENCE OF EXISTING STATS EQUIPMENT IN THE VICINITY OF WORKS

PRESENCE OF STATUTORY UNDERTAKERS EQUIPMENT IN THE HIGHWAY SHOULD BE VERIFIED BY THE CONTRACTOR ON SITE PRIOR TO STARTED ANY WORKS. THE LOCATION OF STATUTORY PLANT SHOWN ON ANY PLAN 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.

CL1

CHAINAGE	0.000	3.826	10.000	12.562
EXISTING GROUND LEVEL	13.217		13.190	13.053
ALIGNMENT LEVEL	13.465		13.137	13.053
VERTICAL ALIGNMENT	G= -3.281% 1: -30.5			
HORIZONTAL ALIGNMENT	R= 30.000			

Master Alignment : CL1 Chainage 0.000 to 12.562

Master Alignment Coordinates & Levels at Chainage Interval 5.00

Chainage	Easting	Northing	Level	Bearing	Radius	Gradient(%)
0.000	337275.581	357298.409	13.465	31.84285	30.000	-3.28
3.826	337277.801	357301.522	13.339	39.15073	30.000	-3.28
5.000	337278.542	357302.432	13.301	39.15073		-3.28
10.000	337281.699	357306.309	13.137	39.15073		-3.28
12.562	337283.316	357308.296	13.053	39.15073		-3.28

CL2

CHAINAGE	0.000	10.000	14.137
EXISTING GROUND LEVEL	12.537	12.830	12.605
ALIGNMENT LEVEL	13.140	12.762	12.605
VERTICAL ALIGNMENT	G= -3.784% 1: -26.4		
HORIZONTAL ALIGNMENT			

Master Alignment : CL2 Chainage 0.000 to 14.137

Master Alignment Coordinates & Levels at Chainage Interval 5.00

Chainage	Easting	Northing	Level	Bearing	Radius	Gradient(%)
0.000	337341.336	357289.986	13.140	209.49720		-3.78
5.000	337338.874	357285.634	12.951	209.49720		-3.78
10.000	337336.412	357281.282	12.762	209.49720		-3.78
14.137	337334.375	357277.681	12.605	209.49720		-3.78

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.

🟪	EXISTING GULLY GRATING AND FRAME TO BE REMOVED TO TIP AND POT FILLED WITH MIX ST2 CONCRETE TO BELOW FORMATION LEVEL.
🟦	PRECAST CONCRETE STREET GULLY 450MM DIA X 900MM TO BS 5911 BS EN 124 WITH DUCTILE IRON HINGE GULLY GRATE AND 150MM FRAME WITH ENCAPSULATING GRATING TO EN 124 D400 SINGLE PIECE HINGED. LOCATION AND NATURE OF SEWER TO BE CONFIRMED ON SITE PRIOR TO COMMENCING ANY DRAINAGE WORKS. CONTRACTOR TO ENSURE THAT NO OBLIQUE TURNS ARE MADE IN ALL GULLY CONNECTIONS AND ADJUST CONNECTIONS WHERE NECESSARY TO THE SATISFACTION OF THE LA ENGINEER.
🟩	EXISTING GULLY TO REMAIN.

PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO SURVEY/PROOF AND IF NECESSARY CLEAR EXISTING SURFACE SEWERS/TAILPIPES TO CONFIRM PIPE ALIGNMENTS AND PREVENT ANY OBLIQUE CONNECTIONS WITH EXISTING PIPEWORK.

REV	DETAILS	DRAWN	CHECKED	DATE

CLIENT:
MACBRYDE HOMES

PROJECT:
ROSSETT ROAD,
WREXHAM

DRAWING TITLE:
S278 SETTING OUT & DRAINAGE

SCALES:
1:250 @ A0

DRAWN: JC
CHECKED: MC
DATE: MAY 21

Croft Transport Planning & Design
340 Deansgate
Manchester
M3 4LY

Email: info@croftts.co.uk
Tel: 0161 837 7380
Web: www.eddisons.com/services/transport-planning

DRAWING NUMBER: 3261-D005
REVISION: C

Eddisons Incorporating Croft

Z:\projects\3261 DD S278 Rossett Road, Wrexham, Castle Green\CAD\Croft Drawings\S278 Rossett Road, Wrexham Setting Out (3261) REV C.dwg