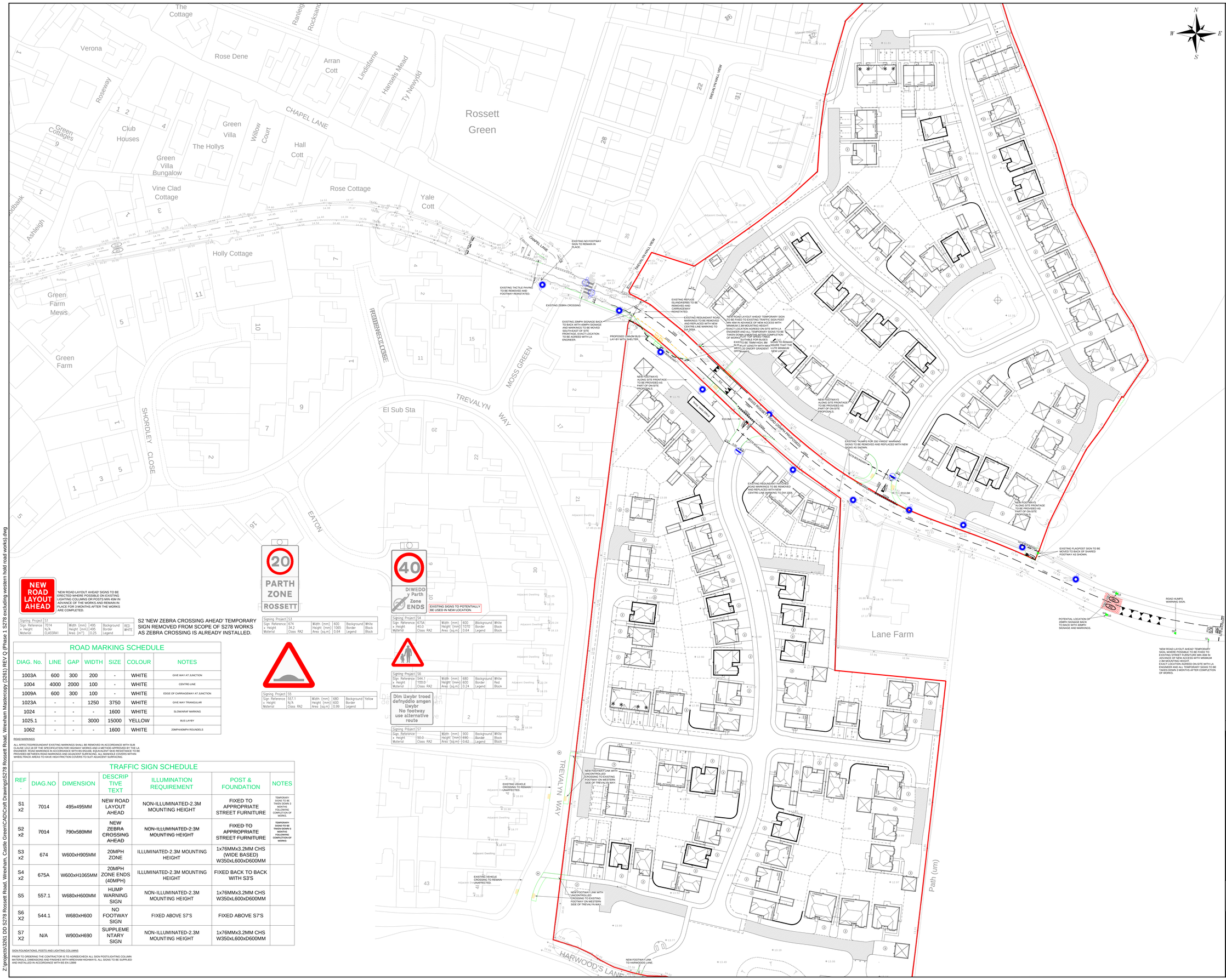


NOTES

1. ALL ADOPTABLE SEWERS AND ASSOCIATED WORKS ARE TO COMPLY FULLY WITH "SEWERS FOR ADOPTION" 7TH EDITION, AS AMENDED, AND TO BE READ IN CONJUNCTION WITH THE ON-SITE DRAINAGE 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 AND ANY SIGNIFICANT 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 WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION REPORT PROVIDED 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 UNDERTAKING 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 IPIEWORK OR CABLING. THE CONTRACTOR SHOULD CONFIRM THE EXACT LOCATION OF ALL PLANT ON SITE PRIOR TO COMMENCEMENT OF WORKS. CONTRACTOR TO MAKE 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 EQUIPMENT AND ELECTRICAL FEEDS TO LIGHTING AND SIGNALS PRIOR TO WORKS COMMENCING. CONTRACTOR TO MAKE ALLOWANCE FOR ANY LEAD-INS WITHIN THEIR PROGRAMME OF WORKS.

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 1436ALL 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 THROUGH THE DESIGN PROCESS. WHERE THIS HAS NOT BEEN POSSIBLE WE HAVE ADOPTED METHODS TO REDUCE 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 CHDIT BELOW.

1. TRENCH EXCAVATIONS IN EXCESS OF 1.2M DEEP.
2. GUARDING TO EDGES OF EXCAVATIONS TO PREVENT PEOPLE, MATERIALS AND VEHICLES FALLING INTO EXCAVATIONS.
3. GUARDING OF EXCAVATIONS OUTSIDE WORKING HOURS TO PREVENT UNAUTHORISED ACCESS.
4. UNDERMINING TO ADJACENT ROADS OR STRUCTURES.
5. CONFINED SPACE OPERATIONS.
6. CONFLICT 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. ALL CONTRACTORS TO ENSURE THAT THEIR STAFF AND 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 EQUIPMENT 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 2.3M 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.

PROPOSED STREET LIGHTING COLUMN

NEW ROAD LAYOUT AHEAD

'NEW ROAD LAYOUT AHEAD' SIGNS TO BE ERECTED WHERE POSSIBLE ON EXISTING LIGHTING COLUMNS OR POSTS MIN 45M IN ADVANCE OF THE WORKS AND REMAIN IN PLACE FOR 3 MONTHS AFTER THE WORKS ARE COMPLETED.

Signing Project	S1					
Sign Reference	7014	Width (mm)	495	Background	RED
x Height	N/A	Height (mm)	495	Border	WHITE
Material	CLASSRA1	Area (m²)	0.25	Legend	

S2 'NEW ZEBRA CROSSING AHEAD' TEMPORARY SIGN REMOVED FROM SCOPE OF S278 WORKS AS ZEBRA CROSSING IS ALREADY INSTALLED.

Signing Project	S3					
Sign Reference	674	Width (mm)	600	Background	White
x Height	34.2	Height (mm)	1065	Border	Black
Material	Class RA2	Area (sq.m)	0.64	Legend	Black

EXISTING SIGNS TO POTENTIALLY BE USED IN NEW LOCATION.

Signing Project	S4					
Sign Reference	675A	Width (mm)	600	Background	White
x Height	40.0	Height (mm)	1070	Border	Black
Material	Class RA2	Area (sq.m)	0.64	Legend	Black

Signing Project	S5				
Sign Reference	557.1	Width (mm)	680	Background	Yellow
x Height	N/A	Height (mm)	600	Border	
Material	Class RA2	Area (sq.m)	0.99	Legend	

Signing Project	S6					
Sign Reference	544.1	Width (mm)	680	Background	White
x Height	700.0	Height (mm)	600	Border	Red
Material	Class RA2	Area (sq.m)	0.24	Legend	Black

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Llwybr
No footway use alternative route

Signing Project	S7					
Sign Reference		Width (mm)	900	Background	White
x Height	50.0	Height (mm)	690	Border	Black
Material	Class RA2	Area (sq.m)	0.62	Legend	Black

ROAD MARKING SCHEDULE

DIAG. No.	LINE	GAP	WIDTH	SIZE	COLOUR	NOTES
1003A	600	300	200	-	WHITE	GIVE WAY AT JUNCTION
1004	4000	2000	100	-	WHITE	CENTRE-LINE
1009A	600	300	100	-	WHITE	EDGE OF CARRIAGEWAY AT JUNCTION
1023A	-	-	1250	3750	WHITE	GIVE WAY TRIANGULAR
1024	-	-	-	1600	WHITE	SLOW/ARAF MARKING
1025.1	-	-	3000	15000	YELLOW	BUS LAYBY
1062	-	-	-	1600	WHITE	20MPH/40MPH ROUNDELS

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.

TRAFFIC SIGN SCHEDULE

REF.	DIAG.NO	DIMENSION	DESCRIPTIVE TEXT	ILLUMINATION REQUIREMENT	POST & FOUNDATION	NOTES
S1 x2	7014	495x495MM	NEW ROAD LAYOUT AHEAD	NON-ILLUMINATED-2.3M MOUNTING HEIGHT	FIXED TO APPROPRIATE STREET FURNITURE	TEMPORARY SIGNS TO BE TAKEN DOWN 3 MONTHS FOLLOWING COMPLETION OF WORKS.
S2 x2	7014	790x580MM	NEW ZEBRA CROSSING AHEAD	NON-ILLUMINATED-2.3M MOUNTING HEIGHT	FIXED TO APPROPRIATE STREET FURNITURE	TEMPORARY SIGNS TO BE TAKEN DOWN 3 MONTHS FOLLOWING COMPLETION OF WORKS
S3 x2	674	W600xH905MM	20MPH ZONE	ILLUMINATED-2.3M MOUNTING HEIGHT	1x76MMx3.2MM CHS (WIDE BASED) W350xL600xD600MM	
S4 x2	675A	W600xH1065MM	20MPH ZONE ENDS (40MPH)	ILLUMINATED-2.3M MOUNTING HEIGHT	FIXED BACK TO BACK WITH S3'S	
S5	557.1	W680xH600MM	HUMP WARNING SIGN	NON-ILLUMINATED-2.3M MOUNTING HEIGHT	1x76MMx3.2MM CHS W350xL600xD600MM	
S6 X2	544.1	W680xH600	NO FOOTWAY SIGN	FIXED ABOVE S7'S	FIXED ABOVE S7'S	
S7 X2	N/A	W900xH690	SUPPLEMENTARY SIGN	NON-ILLUMINATED-2.3M MOUNTING HEIGHT	1x76MMx3.2MM CHS W350xL600xD600MM	

SIGN FOUNDATIONS, POSTS AND LIGHTING COLUMNS

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

REV	DETAILS	DRAWN	CHECKED	DATE
P	AMENDED TO COMMENTS (STAGE 1 S278 EXC. HOLT ROAD)	JC	JC	SEP 24
O	AMENDED TO COMMENTS	LB	JC	JUN 24
N	AMENDED TO COMMENTS	LB	JC	JUN 24
M	UPDATED SITE LAYOUT	LB	JC	MAR 24
L	REVISED FOLLOWING WREXHAM COMMENTS	LB	JC	MAR 24
K	REVISED FOLLOWING WREXHAM COMMENTS	JC	MC	AUG 22
J	REVISED FOLLOWING WREXHAM COMMENTS	JC	MC	JUN 22
I	REVISED FOLLOWING WREXHAM PLANNING COMMENTS	JC	MC	APR 22
H	REVISED FOLLOWING WREXHAM PLANNING COMMENTS	JC	MC	FEB 22
G	REVISED FOLLOWING WREXHAM FIRST TECHNICAL REVIEW	JC	MC	NOV 21
F	REVISED FOLLOWING WREXHAM PLANNING COMMENTS	JC	MC	OCT 21
E	REVISED FOLLOWING WREXHAM PLANNING COMMENTS	JC	MC	OCT 21
D	ADDITIONAL CROSSING ON HOLT ROAD	JC	MC	OCT 21
C	REVISED IN LINE WITH STAGE 1/2 RSA	JC	MC	MAY 21
B	ADDITIONAL FOOTWAY LINKS OUTSIDE OF RED EDGE ADDED	JC	MC	APR 21
A	ADDITIONAL FOOTWAY LINKS OUTSIDE OF RED EDGE ADDED	JC	MC	MAR 21

CLIENT:
MACBRYDE HOMES

PROJECT:
ROSSETT ROAD,
WREXHAM

DRAWING TITLE:
PHASE 1
S278 SIGNS & MARKINGS

SCALES:
1:250 @ A0

DRAWN:	CHECKED:	DATE:
JC	MC	JAN 21

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REVISION: P

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