

Z:\projects\3381.DD S278 Heritage Way Brymbo, Wrexham, TW NW\CAD\Croft Drawings\S278 Heritage Way Brymbo Mastercopy (3381) REV A.dwg



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 x3
Sign Reference	7014
Height	60.0
Material	Class RA1
Width (mm)	495
Height (mm)	495
Area (sqm)	0.25
Background	Red
Border	White
Legend	White

REF.	DIAG.NO	DIMENSION	DESCRIPTIVE TEXT	ILLUMINATION REQUIREMENT	POST & FOUNDATION	NOTES
S1 X2	7014	W495xH495	NEW ROAD LAYOUT AHEAD	NON-ILLUMINATED-2.3M MOUNTING HEIGHT	FIXED TO APPROPRIATE LIGHTING COLUMNS 45M-110M IN ADVANCE OF WORKS	TEMPORARY SIGNS TO BE TAKEN DOWN 3 MONTHS FOLLOWING COMPLETION OF WORKS.

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.

DIAG. No.	LINE	GAP	WIDTH	SIZE	COLOUR	NOTES
1003A	600	300	200	-	WHITE	GIVE WAY LINING AT JUNCTION
1004	4000	2000	100	-	WHITE	CENTRE LINE MARKINGS
1009A	600	300	100	-	WHITE	EDGE OF CARRIAGEWAY AT JUNCTION
1018.1	-	100	100	-	YELLOW	DOUBLE YELLOWS-CONTRACTOR TO ENSURE WITH MATCHES EXISTING.
1023A	-	-	1250	3750	WHITE	GIVE WAY TRIANGULAR

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.

POTENTIAL LOCATION FOR 'NEW ROAD LAYOUT AHEAD'
TEMPORARY SIGN TO BE INSTALLED BETWEEN 45-110M
IN ADVANCE OF WORKS WITH MINIMUM 2.3M MOUNTING
HEIGHT FIXED TO APPROPRIATE LIGHTING COLUMN.
EXACT LOCATION AGREED ON-SITE WITH LA ENGINEER
AND ALL TEMPORARY SIGNS TO BE TAKEN DOWN 3
MONTHS AFTER COMPLETION OF WORKS.

SHORT EXTENT OF EXISTING
DOUBLE YELLOW LINING
WITHIN THE AREA OF THE
NEW ACCESS SHALL BE
REMOVED.

EXISTING MARKINGS TO
REMAIN SHOWN IN GREY.

NEW DOUBLE YELLOW LINES
TO TIE IN WITH EXISTING. ANY
AMENDMENTS REQUIRED TO
EXISTING TRO'S/NEW TRO'S
SHALL BE PROGRESSED BY
WREXHAM AND FUNDED BY
THE DEVELOPER.

POTENTIAL LOCATION FOR 'NEW ROAD LAYOUT AHEAD'
TEMPORARY SIGN TO BE INSTALLED BETWEEN 45-110M
IN ADVANCE OF WORKS WITH MINIMUM 2.3M MOUNTING
HEIGHT FIXED TO APPROPRIATE LIGHTING COLUMN.
EXACT LOCATION AGREED ON-SITE WITH LA ENGINEER
AND ALL TEMPORARY SIGNS TO BE TAKEN DOWN 3
MONTHS AFTER COMPLETION OF WORKS.

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

- PRIOR TO ORDERING THE CONTRACTOR IS TO AGREE ALL SIGN POST/LIGHTING COLUMN
MATERIALS AND FINISHES WITH THE LOCAL AUTHORITY ENGINEER.
- ALL SIGNS TO COMPLY WITH BS EN 12899:2007 AND ITS NATIONAL ANNEX.
- ALL SIGNS TO HAVE A MINIMUM CLEARANCE OF 450MM FROM THE CARRIAGEWAY AND 2.1M TO
UNDERBRIE OF SIGN.
- ALL NEW ROAD MARKINGS TO BE THERMOPLASTIC 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.
- 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.
- 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 1884.
CONTRACTOR TO MAKE ALLOWANCE FOR POTENTIAL REQUIREMENT OF RESURFACING IN
AREAS WHERE LINING ARE REMOVED SUBJECT TO CONDITION OF SURFACING FOLLOWING THE
WORKS.
- ALL NEW MARKINGS TO HAVE EQUIVALENT PSV TO ADJACENT SURFACING IN ACCORDANCE
WITH BS EN 1436.
- ALL MANHOLE AND ACCESS COVERS WITHIN WHEELTRACKS TO HAVE HIGH FRICTION COVERS
TO MATCH ADJACENT SURFACING PSV.

NOTES

- ALL ADAPTABLE 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.
- ALL HIGHWAY AND DRAINAGE WORKS TO BE TO ADAPTABLE 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 DRAINAGE TO ALL GULLIES PRIOR TO UNDERTAKING ANY PAVEMENT WORKS.
- ANY PRIVATE WORKS ARE TO COMPLY FULLY WITH THE LATEST EDITIONS OF THE BUILDING REGULATIONS
- 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
- 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 PROVIDES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR)
- 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.
- 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 PIPES OR CABLES. 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.
- 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 ANY SIGNALS PRIOR TO WORKS COMMENCING.
CONTRACTOR TO MAKE ALLOWANCE FOR ANY LEAD-INS WITHIN THEIR PROGRAMME.
- 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
- 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:

- TRENCH EXCAVATIONS IN EXCESS OF 1.2M DEEP
- GUARDING TO EDGES OF EXCAVATIONS TO PREVENT PEOPLE, MATERIALS AND VEHICLES FALLING INTO
EXCAVATION
- GUARDING OF EXCAVATIONS OUTSIDE WORKING HOURS TO PREVENT UNAUTHORISED ACCESS.
- UNDERMINING TO ADJACENT ROADS OR STRUCTURES.
- CONFINED SPACE OPERATIONS
- DEALING WITH EXISTING SERVICES.
- TRAFFIC MANAGEMENT ON EXISTING HIGHWAYS AND PROTECTION OF SITE PERSONNEL AND MEMBERS OF THE
PUBLIC.
- PROCEDURE TO BE FOLLOWED IN EVENT OF ACCIDENT OR EMERGENCY.
- METHOD OF WORKING WHERE CONTAMINATED GROUND IS PRESENT ON SITE.
- CONFIRMATION WILL BE REQUIRED THAT ALL OPERATIVES ARE ADEQUATELY TRAINED. COPIES OF RELEVANT
TRAINING CERTIFICATES TO BE SUPPLIED.
- 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:

- THE FULL DESIGNERS AND CONTRACTORS RISK ASSESSMENTS AND RISK REGISTERS.
- THE DEVELOPED CONSTRUCTION HEALTH AND SAFETY PLAN.
- 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.

REV	DETAILS	DRAWN	CHECKED	DATE
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TAYLOR WIMPEY

PROJECT:
HERITAGE WAY, BRYMBO,
WREXHAM

DRAWING TITLE:

S278 SIGNS & MARKINGS

SCALES:
1:250 @ A1

DRAWN:	JC	CHECKED:	MC	DATE:	APR 21
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Croft