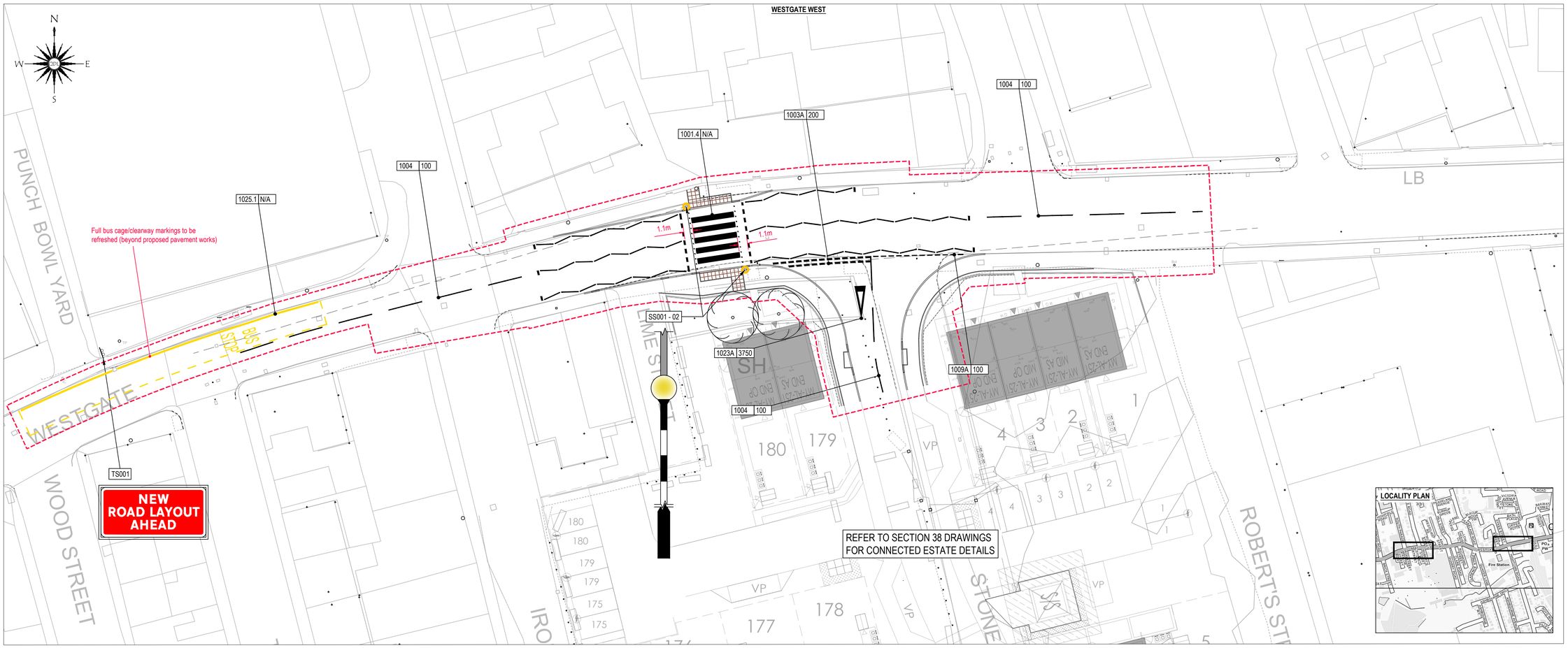

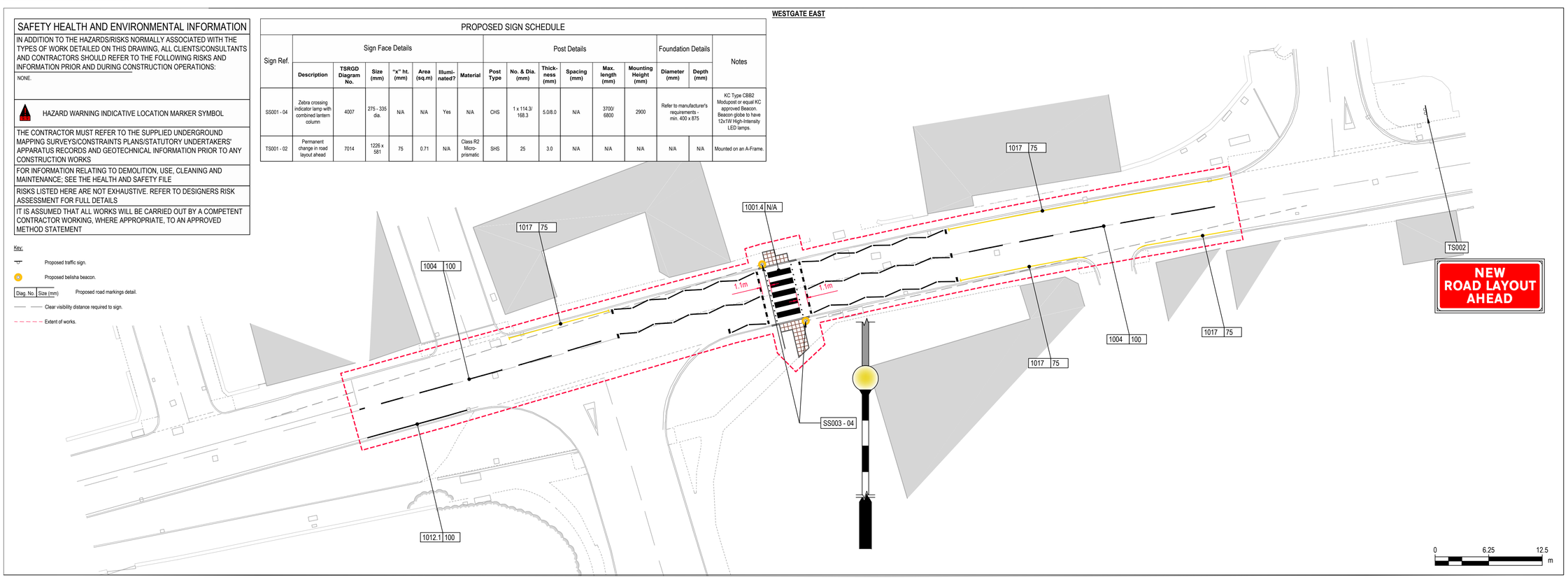

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, ALL CLIENTS/CONSULTANTS AND CONTRACTORS SHOULD REFER TO THE FOLLOWING RISKS AND INFORMATION PRIOR AND DURING CONSTRUCTION OPERATIONS:

NONE.

HAZARD WARNING INDICATIVE LOCATION MARKER SYMBOL

THE CONTRACTOR MUST REFER TO THE SUPPLIED UNDERGROUND MAPPING SURVEYS/CONSTRAINTS PLANS/STATUTORY UNDERTAKERS' APPARATUS RECORDS AND GEOTECHNICAL INFORMATION PRIOR TO ANY CONSTRUCTION WORKS

FOR INFORMATION RELATING TO DEMOLITION, USE, CLEANING AND MAINTENANCE; SEE THE HEALTH AND SAFETY FILE

RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DESIGNERS RISK ASSESSMENT FOR FULL DETAILS

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

Key:

Proposed traffic sign.

Proposed belisha beacon.

Diag. No. | Size (mm) — Proposed road markings detail.

Clear visibility distance required to sign.

Extent of works.

PROPOSED SIGN SCHEDULE

Sign Ref.	Sign Face Details							Post Details						Foundation Details		Notes
	Description	TSRGD Diagram No.	Size (mm)	"x" ht. (mm)	Area (sq.m)	Illumi-nated?	Material	Post Type	No. & Dia. (mm)	Thick-ness (mm)	Spacing (mm)	Max. length (mm)	Mounting Height (mm)	Diameter (mm)	Depth (mm)	
SS001 - 04	Zebra crossing indicator lamp with combined lantern column	4007	275 - 335 dia.	N/A	N/A	Yes	N/A	CHS	1 x 114.3/ 168.3	5.0/8.0	N/A	3700/ 6800	2900	Refer to manufacturer's requirements - min. 400 x 875		KC Type CBB2 Modupost or equal KC approved Beacon. Beacon globe to have 12x1W High-Intensity LED lamps.
TS001 - 02	Permanent change in road layout ahead	7014	1226 x 581	75	0.71	N/A	Class R2 Micro-prismatic	SHS	25	3.0	N/A	N/A	N/A	N/A	N/A	Mounted on an A-Frame.

Only PDF/ DWF Issues of this drawing are controlled. All other formats (eg. DWG AutoCAD FILES) are UN-controlled and are used at your own risk.

General Notes:

1. DO NOT USE THIS DRAWING IN ISOLATION. This drawing has been prepared as part of a set, and must therefore be read in conjunction with all other drawings. Any discrepancies or design queries must be reported to the engineer prior to completion of tender and commencement of works. Following completion of tender it is assumed that developer and Contractor are in full agreement with the design drawings (with the exception of pre tender queries only).
2. Third party information is used to prepare the engineering design (including, architectural layout, ground investigation, existing utilities records, and specialist design items). The engineering design must therefore be read in conjunction with all third party information prior to commencing work. Queensberry Design Ltd are not responsible for any third party information or details.
3. House type working drawings are to be used in conjunction with the plot setting out drawing.
4. Drawing status will remain preliminary until full technical approval is received from local authority and sewerage undertaker. Works commenced prior to technical approval are done so at risk and may be subject to change.
5. The Contractor is expected to prepare appropriate construction method statements for all aspects of appointed work. This should include any temporary protection works.
6. Land drainage is not permitted to discharge into the public sewer network. Any need for land drainage should be assessed by the ground worker and landscaper during construction and placement of gardens on an individual plot basis. If land drainage designs are required, they should be appointed prior to plot completion.
7. The Contractor is expected to cross check all drainage inverts prior to commencing work, this may involve completion of trial holes if invert levels have been interpolated.
8. The Contractor must monitor the "as build" progress of each construction stage (roads/sewers/plot works/ etc), to enable the next stages of construction to be checked before installation. For this reason the design of, floor levels, external works, retaining walls, and plot drainage are to be read as guidance only.

Highways

1. All highway works to be carried out in accordance with the Design Manual for Roads and Bridges (DMRB); the Manual of Contract Documents for Highway Works, Specification for Highway Works (MCHW SHW) and the current local authority highway design guide.
2. All excavations below proposed and existing highways to be back-filled with granular type 1 sub-base and well compacted in layers not exceeding 150mm, unless otherwise agreed.
3. Highway authority to be notified by the Contractor prior to the commencement of works.
4. All statutory consents opening notices etc. as required under the highways act are to be obtained by the Contractor.
5. Material for permanent traffic signs and their construction, assembly, location and erection shall comply with series 1200 and 1400 of the MCHW SHW.
6. All signs and road markings are to be in accordance with the Traffic Signs Regulations & General Directions 2016 (TSRGD), Traffic Signs Manual (TSM) and MCHW SHW series 1200.
7. Permanent road markings shall be thermoplastic material or paint in accordance with BS EN 1871.
8. All sign locations indicated are approximate and must be agreed on site with the supervisor/inspector prior to erection.
9. Where proposed road markings tie into existing road markings they shall be correctly aligned in accordance with dimensions shown in the TSRGD.
10. Any road markings removed or covered outside the extents of the main works for traffic management purposes are to be reinstated as existing upon scheme completion.
11. Where road markings are to be laid on existing pavements, redundant road markings are to be removed by appropriate methods.
12. All road markings shall be reflectorised in accordance with SHW Cl. 1212.4, have the performance to Cl. 1212.5 and skid resistance complying with Class S3 to BS EN 1436, Table 7.
13. Coloured surface treatment shall be with a thermoplastic Rosin Ester pigmented binder, containing 55% ± 1% coloured quartzite aggregate to a minimum 60 PSV and a minimum 1.55mm texture depth as measured by 'Sand Patch' testing.
14. All temporary signs shall be constructed to the standards for permanent signs, except that the sign face material may be punctured to accommodate fixing.
15. All temporary signs are required to have a date on their reverse by which they should be removed (to be 3 months after installation on site). Text to measure 50mm height and label to be manufactured from one piece of U.V. Stabilised self-adhesive vinyl.
16. Any existing sign plates noted to be re-used are subject to a condition assessment and compliance with current standards. Sign to be approved by KC works inspector. Any sign face found not to be in suitable condition is to be replaced with a new plate. Noted sign face dimensions are assumed and may vary.
17. Where signs are to be illuminated, provision shall be made for cable entry through concrete foundations by means of a 100mm dia. flexible UPVC duct. The duct shall enter the foundations at the front, 250mm below formation level. All illuminated signs shall be provided with a root/switch box to house the equipment.
18. Unless recommended by the manufacturer, all sign post foundations shall be to standardised prescribed concrete grade ST2 to SHW Cl. 2602 and have a minimum 150mm cover.
19. Sign posts shall be formed from tubular hollow section steel to BS EN 10210 and protected against corrosion by galvanising in accordance with BS EN ISO 1461. The posts shall then be sealed with a resin solution corresponding to RAL 6005.
20. The exposed ends of all tubular steel posts shall be topped with matching plastic caps.
21. Sign plates shall be constructed of aluminium and covered with a plastic coating, microprismatic, retro-reflective material to BS 8408 for the face and non-reflective plastic coating, Grey in colour for the back.
22. Signs installed prior to the date of implementation of the new road layout or order to which they refer, shall be covered according to SHW Cl. 1209.1, until that date.
23. Vertical spacing of 50mm to be allowed when signs mounted above one another on same post.
24. All signs shall have a minimum carriageway clearance of 450mm.
25. Existing lighting columns shall not be used to support traffic signs above 0.3m^2 unless specifically designed for that purpose.
26. Permanent road studs shall be in accordance with TSM Chapter 5, series D of the MCHW SHW Highway Construction Details and BS EN 1463. Studs used shall be depressible rubber inserts let into a cast iron base with reflex lenses which are cleansed by the passage of a vehicle wheel under the squeegee action of the depressible rubber - the cast iron base shall be capable of securing a traffic cylinder to BS 873. Where existing road studs are of condition deemed suitable for re-use, the Contractor shall install new reflecting inserts.
27. Refer to proposed sign schedule on this drawing for sign face, post and base details.
28. Refer to drawing sheet numbers QD1776-0200-11 for site clearance details.
29. Refer to drawing sheet numbers QD1776-03-11 for engineering layout.

Existing Services

Any existing services which may be affected by the proposed works should be located by means of a hand dig in close liaison with the statutory service authorities. The Contractor shall inform the developer of any services that may affect the proposed design.
Contractor to notify statutory service authorities prior to commencement of work.

As Constructed Information

Refer to General Note 8 above. It is the Contractors responsibility to provide the following as constructed drawings to the developer upon the completion of the works covered by the contract:

1. Position/co-ordinates of all adoptable manholes.
2. Invert and cover levels of all adoptable manholes.
3. New gully positions and connections.
4. Position and depth of service ducts for water, gas, electric, BT, cable and street lighting, stating size and number of ducts.

CONTRACTOR TO NOTE THAT MATERIALS TESTING IS REQUIRED THROUGHOUT. CONTRACTOR TO LIAISE WITH KC HIGHWAYS TESTING LABORATORY REGARDING THE REQUIRED TESTING STANDARDS; TYPICALLY INCLUDING FOR FILL, ASPHALT, HOT APPLIED BOND COAT, STRUCTURAL CONCRETE AND ROAD MARKINGS.

Rev.	Date	Revision Details	Drawn	Checked
D	30.01. 2025	MODIFIED TO REFLECT DESIGN DEVELOPMENT.	MK	ND
C	17.05. 2024	MODIFIED TO REFLECT DESIGN DEVELOPMENT.	MK	ND
B	11.03. 2024	MODIFIED FOLLOWING KC COMMENTS.	MK	ND
A	10.10. 2023	FOR KC DESIGN REVIEW.	MK	ND
-	29.09 2023	INITIAL ISSUE: DRAFT, FOR CLIENT COMMENT AND TENDER.	MK	ND

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Client
STRATA HOMES

Project
Westgate
Cleckheaton

Title
Section 278
Traffic Signs and Road Markings

Drawn	Checked	Date
MK	ND	SEPTEMBER 2023

Drawing Number
QD1776-1200-11

Drawing Status	Scale	Rev.
PRELIMINARY	1:250 (@ A1)	D