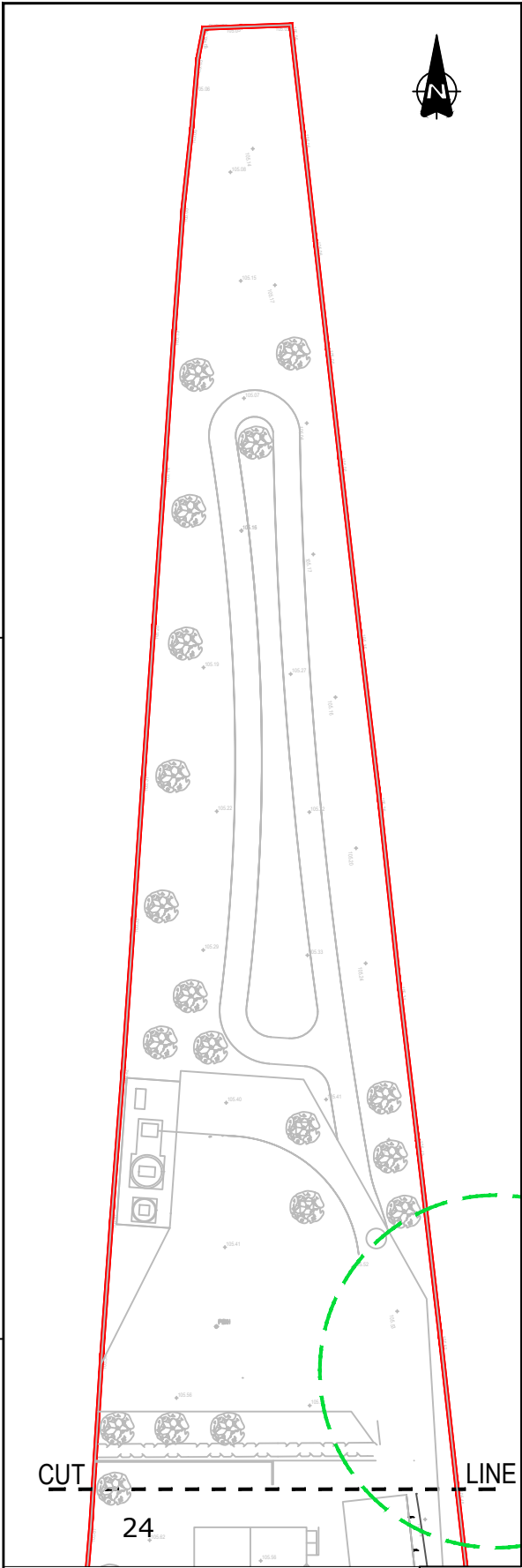




PAVEMENT ZONE A
FULL CARRIAGEWAY CONSTRUCTION

SURFACE COURSE 40mm THIN SURFACE COURSE WITH 10mm MAX AGGREGATES WITH PSV 50 MAX AAV 16 CLAUSE 942

BINDER COURSE 60mm THICK AC 20 DENSE BIN 40/60 REC (BS EN 13108-1) TO CLAUSE 906.

BASE COURSE 100mm THICK AC 32 DENSE BASE 40/60 REC TO CLAUSE 906

SUB BASE 350mm TYPE 1 GRANULAR MATERIAL TO CLAUSE 803. DESIGN BASED ON 2.5% CBR REFER TO TABLE 1

CAPPING 250mm 6F2 TO CLAUSE 613. DESIGN BASED ON 2.5% CBR REFER TO TABLE 1

PAVEMENT ZONE B (BS EN 13108-1)
FULL DEPTH FOOTWAY CONSTRUCTION

SURFACE COURSE 20MM THICK AC 6 DENSE 160/220 REC

BINDER COURSE 40mm THICK AC 20 DENSE BIN 160/220 REC

SUB BASE 100mm THICK TYPE 1 GRANULAR MATERIAL TO CLAUSE 803

PAVEMENT ZONE C (BS EN 13108-1)
FULL DEPTH VEHICULAR FOOTWAY CROSSINGS

SURFACE COURSE 30MM THICK AC 6 DENSE 160/220 REC

BINDER COURSE 40mm THICK AC 20 DENSE BIN 160/220 REC

SUB BASE 150mm THICK TYPE 1 GRANULAR MATERIAL TO CLAUSE 803

UNCONTROLLED PEDESTRIAN CROSSING (TACTILE PAVING)

SURFACE COURSE 400 x 400 x 70mm BUFF COLOURED BLISTER SLABS SURFACE COURSE

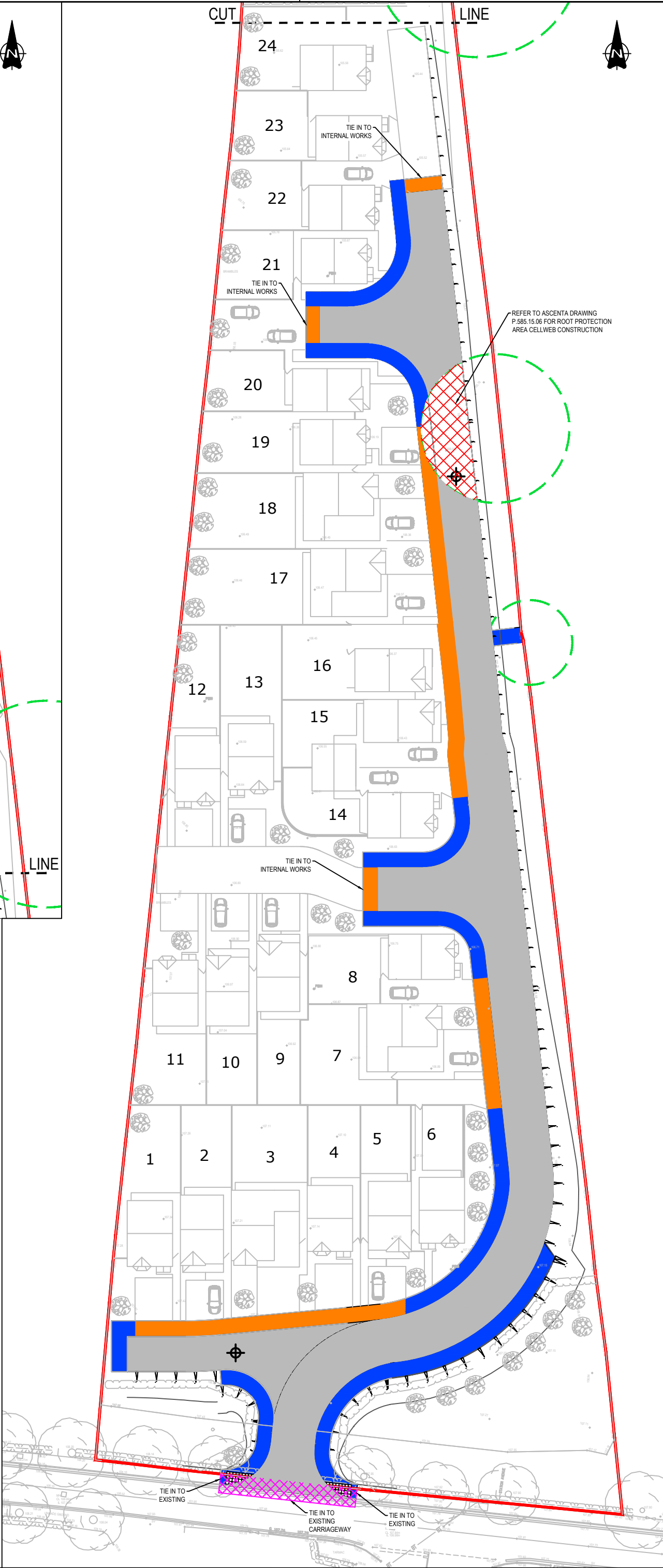
LAYING COURSE 25mm SEMI DRY MORTAR MIX 3:1 SAND & CEMENT MORTAR

SUB BASE 200mm THICK DOT TYPE 1 GRANULAR MATERIAL TO CLAUSE 803. REFER TO DWG. 108287-SD-001

PAVEMENT ZONE D - VERGE
400mm 5B MATERIAL AND GRASS SEEDING

EXTENT OF JUNCTION WORKS WITHIN THE EXISTING HIGHWAY

NOT APPROVED FOR CONSTRUCTION



NOTES

- DO NOT SCALE FROM THIS DRAWING
- DRAWING TO BE PRINTED IN COLOUR
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED
- THE TOPOGRAPHICAL SURVEY UPON WHICH THIS DESIGN IS BASED HAS BEEN PROVIDED BY A THIRD PARTY AND SHOULD BE CHECKED ON SITE FOR ACCURACY.
- THE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES SPECIFICATION FOR HIGHWAY WORKS, WITH REFERENCE TO WCBG SPECIFICATION AND APPROVAL
- FOR STANDARD DETAILS REFER TO DRAWING 108287-SD-001
- SURPLUS MATERIAL TO BE TAKEN OUT TO TIP OFF SITE UNLESS DIRECTED BY THE ENGINEER TO REUSE WITHIN THE SITE
- LOCALISED AREAS OF REGULATING MATERIAL MAY BE REQUIRED TO ACHIEVE CORRECT LEVEL FOR LAYING NEW BINDER AND SURFACE COURSE. EXPOSED SURFACES TO HAVE TACK COAT APPLIED
- UNBOUND MATERIALS (SUB-BASE) TO BE SPREAD IN LAYERS NO GREATER THAN 150MM THICK.
- PAVING DESIGN BASED ON A CBR VALUE OF 2.5% AT FORMATION LEVEL. IF THIS IS EXCEEDED THE THICKNESS OF SUB-BASE AND CAPPING LAYER CAN BE REDUCED AS PER TABLE 1 AND TO BE AGREED WITH WCBG BEFORE CONSTRUCTION CONTINUES.
- VEHICULAR FOOTWAY CROSSING GRADIENT:- A MAXIMUM CROSSFALL OF 1/10 IS PERMISSIBLE FOR FOOTWAY CROSSING UP TO 10m IN LENGTH. ANY CROSSING THAT EXCEEDS 10m IN LENGTH SHALL HAVE A MAXIMUM CROSSFALL OF 1/24 AND THE LONGITUDINAL ALIGNMENT OF THE BACK OF FOOTWAY ADJUSTED TO SUIT.

- CLAUSE 801.7 - NO MATERIAL WITHIN 450MM OF THE FINISHED ROAD LEVEL SHALL BE FROST SUSCEPTIBLE.
- CLAUSE 802 - REFER TO TABLE 8/4 FOR COMPACTION REQUIREMENTS. AN EQUIVALENT CBR OF 15% ON THE CAPPING LAYER AND 30% ON THE SUB-BASE FORMATION SHALL BE ACHIEVED RESPECTIVELY.
- CLAUSE 903 - DETERMINATION OF COMPACTION FOR BASE AND BINDER COURSE MATERIALS TO BE IN ACCORDANCE WITH B5594987, SECTION 9.
- CLAUSE 612 - COMPACTION REQUIREMENTS TABLE 6/4 METHOD 2 FOR IMPORTED CLASS 1A FILL.
- CLAUSE 920 - TACK COAT TO COMPLY AND BE IN ACCORDANCE WITH THIS CLAUSE.

KEY

- SITE BOUNDARY
- EXISTING TOPOGRAPHICAL SURVEY
- PROPOSED KERB ALIGNMENT
- IN-SITU CBRs AT FORMATION (2.5%) CAPPING (15%) AND SUB BASE LEVEL (30%) TO BE UNDERTAKEN. CBRs TO BE POSITIONED AS INDICATED ON THE DRAWING TO VERIFY VALUES PRIOR TO FURTHER MATERIALS BEING LAID. RESULTS AND ANY PROPOSALS FOLLOWING CBR TESTING ARE TO BE SUBMITTED TO THE HIGHWAY AUTHORITY FOR APPROVAL
- PLOT NUMBERS
- ROOT PROTECTION AREA (RPA)

TABLE 1

ESTIMATED CBR (%)	Foundation Option 1 Sub base only	Foundation Option 2 Sub base and capping	
	Sub Base Depth (mm)	Capping Depth (mm)	Sub Base Depth (mm)
2.500	450	250	350
3	410	240	320
4	360	230	270
5	320	210	240
6	300	200	220
7	280	200	210
8	260	190	200
9	250	180	190
10	240	170	180
11	230	170	170
12	220	160	160
13	210	160	160
14	210	150	150
>15	100	150	150

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Client: **EDWARDS HOMES**

Project: **STATION AVENUE, CHIRK WREXHAM**

Site: **S38 PAVEMENT CONSTRUCTION**

Drawn: **NH** Checked: **DEB** Approved: **DEB**

Original dsg size: **A1** Date: **18.09.2019** Scale: **1:250**

Drawing Status: **FOR APPROVAL** Drawing Number: **108287-700-001**