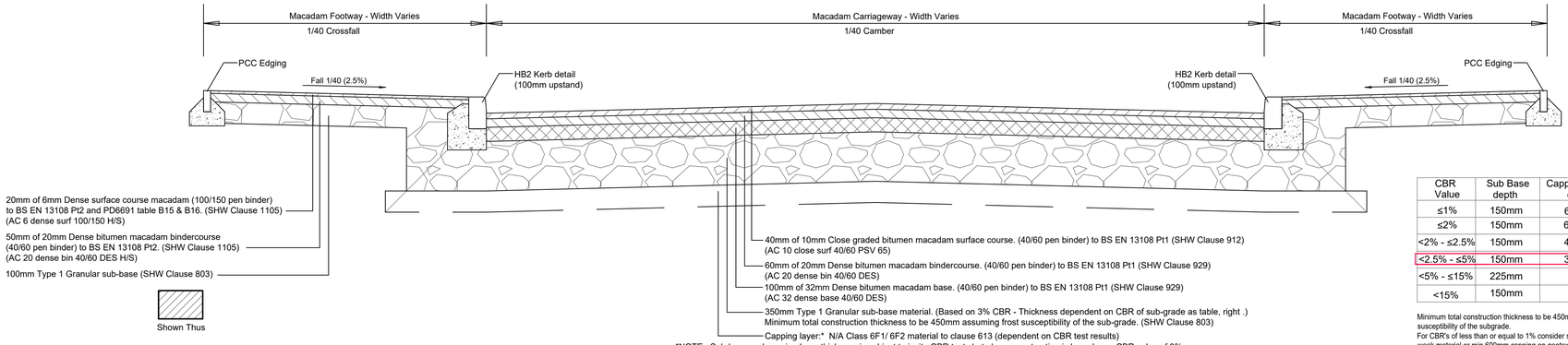



*NOTE: Sub-base and capping layer thickness is subject to insitu CBR tests but above construction is based on a CBR value of 3%.

## SECTION THROUGH BLACKTOP CARRIAGEWAY

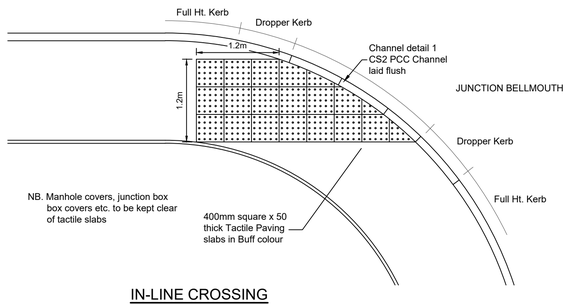
Scale 1:20

| CBR Value | Sub Base depth | Capping Layer depth | Notes |
|---|---|---|---|
| ≤1% | 150mm | 600mm | See note below table |
| ≤2% | 150mm | 600mm | Geotextile beneficial |
| <2% - ≤2.5% | 150mm | 450mm | |
| <2.5% - ≤5% | 150mm | 350mm | or 350mm Sub base |
| <5% - ≤15% | 225mm | | |
| <15% | 150mm | | |

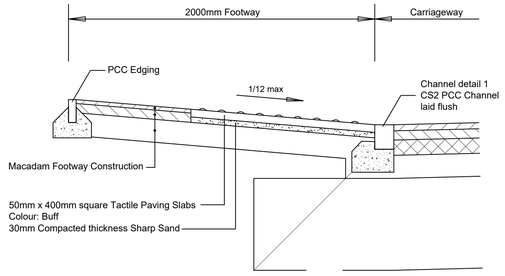
CBR result from S.I. Report

Minimum total construction thickness to be 450mm assuming frost susceptibility of the subgrade.
For CBR's of less than or equal to 1% consider stabilisation of weak material or min 600mm capping on geotextile plus 150mm sub base.

In areas requiring fill, levels beneath adoptable roads shall be made up and compacted to the satisfaction of the Surrey County Council.
Fill material is to be wholly in accordance with the DTp Specification for Highway Works (conforming to Clause 601/1) and may be assumed to be Classes 1A, 1B, 1C, 2B, 6F1 & 6F2.
(Max. 125mm, min 63 micron particle size).



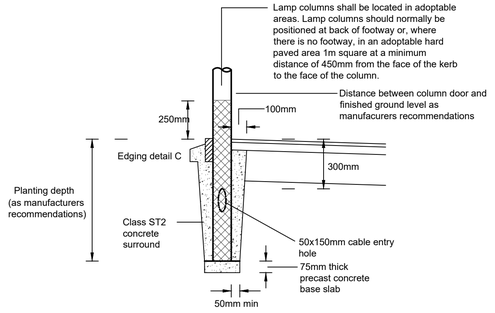

## IN-LINE CROSSING




## SECTION THROUGH TACTILE PAVED CROSSING

Scale 1:20

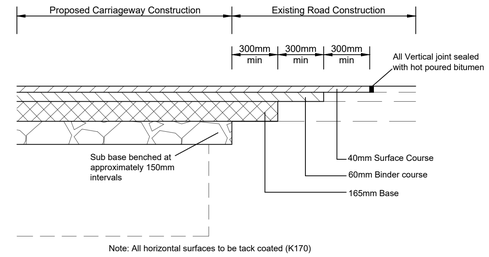
Note: Crossings in block paved areas are to be formed by substituting slabs for blocks with additional sharp sand bed to compensate for the difference in element thickness




NOTE: All columns shall be Hot Dipped Galvanised with Hot Bitumen Dipped for planting depth plus 250mm

## LAMP COLUMN PLANTING

Not to scale



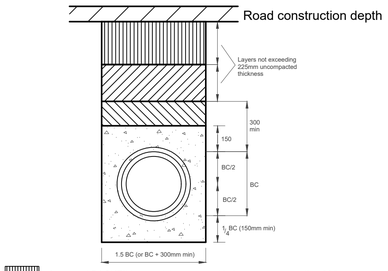

Note: All horizontal surfaces to be tack coated (K170)

## JOINT TO EXISTING CARRIAGEWAY DETAIL

Scale 1:20

## TACTILE PAVED PEDESTRIAN/ PRAM CROSSINGS

NTS




Approved BACKFILL material compacted in layers not exceeding 225mm uncompacted thickness

Backfill to trench beneath highway to be DoT limestone type 1 material compacted in layers not exceeding 225mm uncompacted thickness.
OR
Approved BACKFILL material hand packed (A light mechanical rammer may be used) in layers not exceeding 225mm uncompacted thickness.

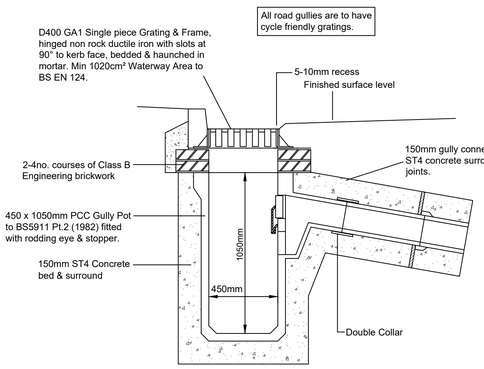
Selected FILL Type 'B' hand packed to 300mm min above crown of pipe in layers not exceeding 150mm. No mechanical ramming.

Grade C20P Concrete

Y=1/6 Bc or 100mm under pipe barrels whichever is the greater (but not less than 50mm under sockets)
N.B: Where rock is found at the base of the trench this dimension is to be increased to 1/4 BC and 150mm under sockets (400mm max)
BC= Outside diameter of pipe.

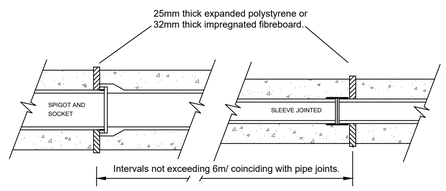
## CONCRETE BED & SURROUND

Pipes under carriageway or footways with less than 1.2m cover and road gully laterals

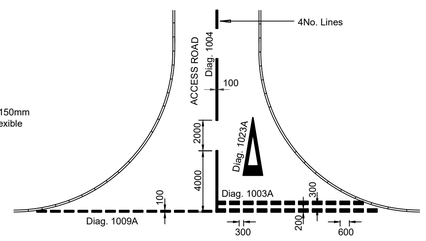



## ROAD GULLY DETAIL

Scale 1:20




## DETAIL OF FLEXIBLE JOINTS IN CONCRETE SURROUND




HARPERS ROAD

All road markings shall conform to the 'The Traffic Signs Regulations and General Directions 2016' and the 'Traffic Signs Manual'.

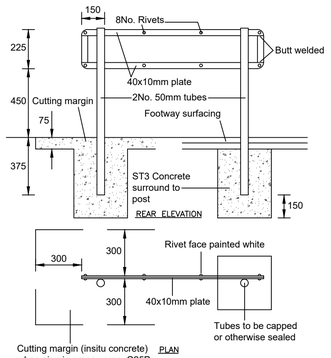
## GIVE WAY MARKINGS SCHEMATIC FOR ROAD 1 JUNCTION WITH TRUMPS GREEN ROAD

NTS

| DIAG No. | Size mm | Description |
|---|---|---|
| 1003A | 600 x 200, 300 gap 2No. rows, 300 apart | Give way |
| 1004 | 4000 x 100, 2000 gap | Hazard marking |
| 1009A | 600 x 150, 300 gap | Edge of c/way at a junction |
| 1023A | 1250 x 3750 long | Give way triangle |

Road markings shall be WHITE MMA (Methyl Methcrylate) and shall be screed or spray applied. A surface application of Ballotini shall be applied. All road markings shall conform to the 'The Traffic Signs Regulations and General Directions 2016' and the 'Traffic Signs Manual'.

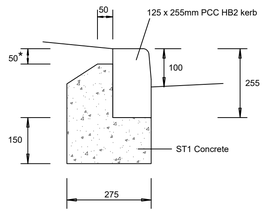
## ROAD MARKINGS SCHEDULE




Name plate to be made from 11 gauge pressed aluminium sheet with 89mm 'Kindersley' style characters, black on white background with a 12.5mm black border and the whole stove enamelled. Alternatively, heat applied 'scotchcal' plastic film characters and background or other approved may be used.

## STREET NAME PLATE

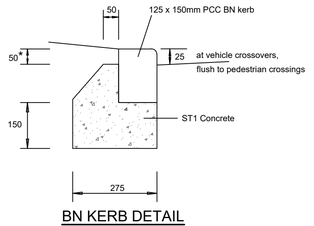
Scale 1:20




## HB2 KERB DETAIL

SCALE 1:10

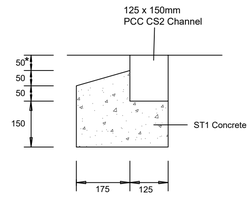
* = increase if necessary to accomodate block paving




## BN KERB DETAIL

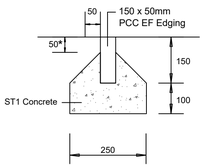
SCALE 1:10

* = increase if necessary to accomodate block paving




## CHANNEL DETAIL 1

SCALE 1:10




## P.C.C EDGING DETAIL

SCALE 1:10

* = increase if necessary to accomodate block paving

No Dimensions are to be scaled from this drawing.

NOTES

1. All works carried out in the Public Highway are to be carried out in accordance with the Surrey County Council specification to the satisfaction of the Highways Engineer.
2. The contractor is responsible for obtaining all necessary licences for works in the Public Highway.
3. If the CBR value for the sub grade is found to be less than 2%, the insitu measured value must be reported to Bellway Homes Technical Dept for further advice.
4. All necessary pedestrian and traffic management to be employed and agreed with the highway authority prior to works and be in accordance with Chapter 8 of the Traffic Signs Manual.
5. Continuity of access to occupied areas to be maintained to the satisfaction of the Surrey CC Engineer during any works within the Public Highway.
6. The Developer/Contractor is to provide suitable and effective means of wheel washing facilities to prevent mud from being conveyed on to the Public highway and to provide the means to clean the highway to the satisfaction of the Surrey CC Engineer.
7. Any soft spots within the proposed Highway shall be dug out and backfilled with Type 1 granular sub base material in 150mm (max.) compacted layers.
8. Any damage caused to the existing highways during the course of construction works to be replaced as directed by and to the satisfaction of the Surrey CC Engineer.
9. No concrete to be poured or laid at temperatures below 2°C on a falling max/min thermometer or before temperatures reaches 2°C on a rising max/min thermometer.
10. No works shall commence within the existing public highway until the agreement is signed.
11. All fill material up to foundation level of the proposed highways to be approved and compacted in layers as directed and to the satisfaction of the Highways Inspector.
12. Any existing live drains, sewers, ducts, cables etc. that will pass under the proposed highway shall be surveyed, probed, traced, rodded, jetted, cctv'd etc. to ascertain their structural condition and suitability to fall within the new highway. If deemed necessary, special protection and/ or replacement may be required as directed and to the satisfaction of the Highways Inspector, Area Engineer and/ or utility company involved.
13. Any existing live manholes, chambers, boxes etc. that will be located within the proposed highway shall be surveyed to ascertain their structural condition and suitability to fall within the new highway. If deemed necessary, special protection and/ or replacement may be required as directed and to the satisfaction of the Highways Inspector, Area Engineer and/ or Utility Company involved.

REVISIONS

| | | | |
|---|---|---|---|
| P1 | Preliminary Issue | 03/05/24 | maw |
| T1 | Tender Issue. | 10/05/24 | maw |
| T2 | Sheet number added to drawing title. | 09/08/24 | nas |


WITHERS DESIGN ASSOCIATES
CIVIL ENGINEERING & INFRASTRUCTURE DESIGN
Unit 12, Wakes Hall Business Centre
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CO6 2DY
01206 247081


PROJECT
**REGENTS GATE, TRUMPS GREEN ROAD VIRGINIA WATER, SURREY.**

CLIENT
Bellway

DRAWING TITLE
**SECTION 278 CONSTRUCTION DETAILS (Sheet 1 of 2)**

| SCALE | DATE | INIT | CHKD |
|---|---|---|---|
| As Shown | 04/24 | nas | maw |

STATUS
**TENDER**

DRG NO
**24-003/286**

REVISION
**T2**