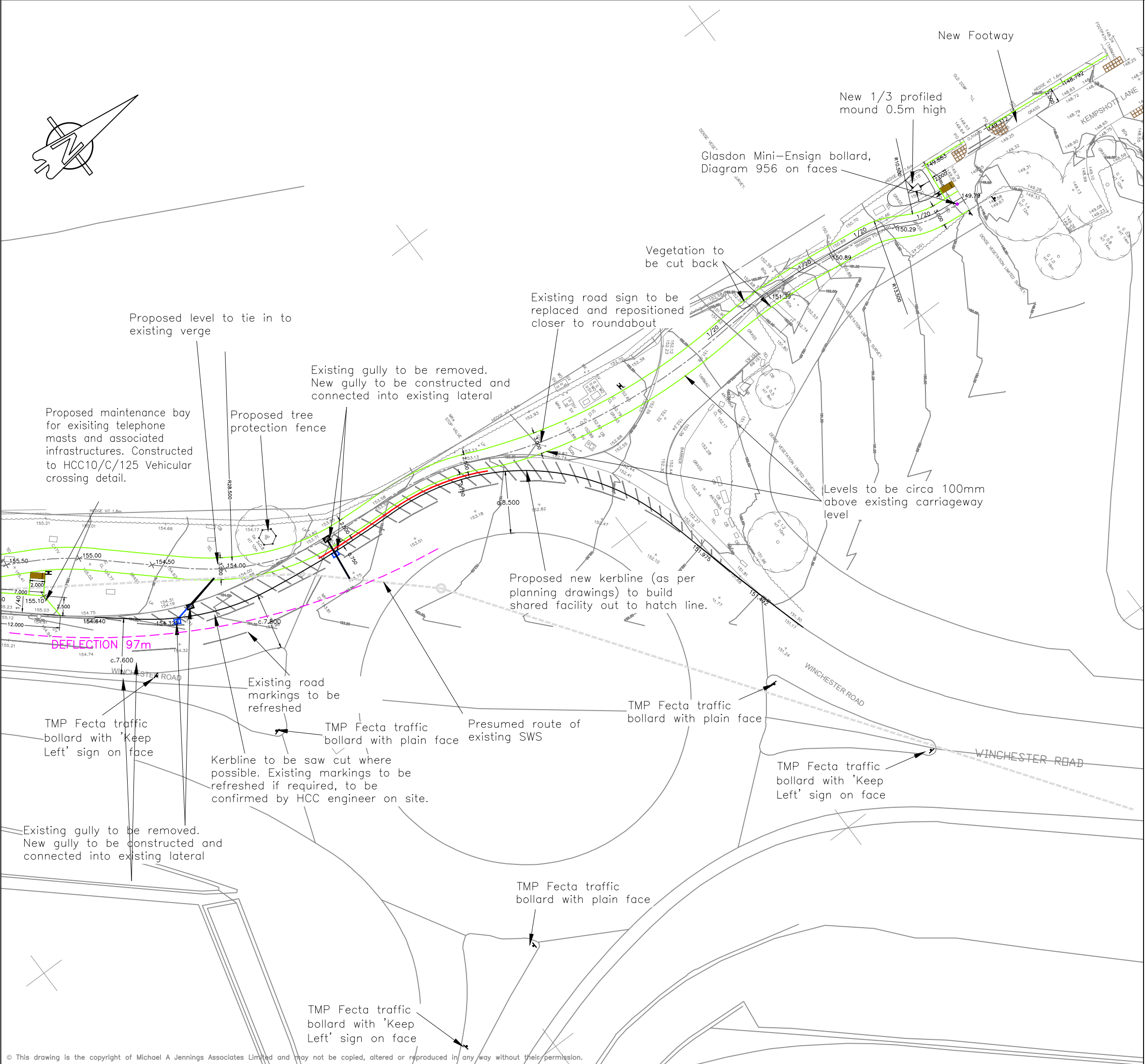
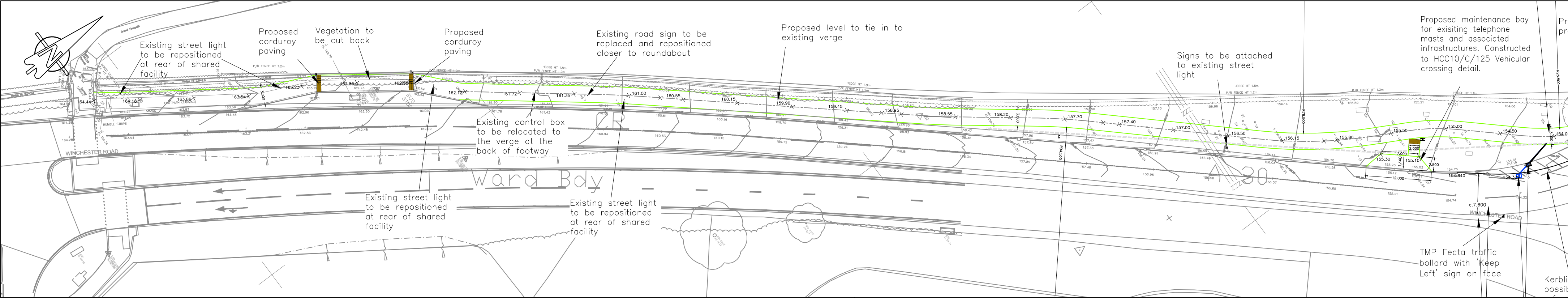




GENERAL NOTES

- These notes are to be referred to throughout the design pack 5648-WD-S278
- All dimensions are in metres unless otherwise stated.
- Topographical survey information provided by others. MJA cannot be held responsible for any inaccuracies
- Levels are in metres and relate to OS GPS datum.
- This drawing is to be read in conjunction with all drawings, notes and specification from the MJA design pack 5648-HW-S278. The contractor is to satisfy themselves that there are no discrepancies within the design pack before commencing on site. If in doubt, ask.
- All works to be carried out in strict accordance with "The Specification for Highway Works – modified & extended",
- All works shall be completed to the satisfaction of the Hampshire County Council (HCC) engineer.
- All works within the public highway shall be carried out and comply with the requirements of the DTP 'Traffic Signs Manual' Chapter 8 – traffic measures and signs for land works and temporary situations'.
- All road markings and traffic signs shall comply with "The Traffic Signs Regulations and General Directions 2016".
- The repositioning and placement of lighting columns to comply with national clearance distance or at minimum of 0.5m from the cycleway surface to the column.
- All road existing road markings within the vicinity of the site to be refreshed.
- All existing levels to be confirmed on site prior to commencement of any works.
- The contractor shall contact all utilities companies prior to commencing and excavation. It is the contractor's responsibility to locate the exact position of all underground and overhead services, cables, pipes etc prior to the excavations and to take all necessary protective measures.
- The contractor shall make good any damage caused to walls, fences, kerbing, surfacing, road signs etc at his own expense as instructed by the Engineer and Highway Authority.
- The contractor shall indemnify the Client, Engineer and Highway Authority against damage to any highway authority property or statutory undertakers plant and any costs associated with the disruption of services and the repair/replacement of the damaged plant. no work on site shall commence until written evidence of the above indemnity has been submitted to and accepted by the Engineer.
- All works to be undertaken in compliance with project specification & to HCC approval.
- Any discrepancies between project specification & HE requirements to be reported immediately to the engineer.
- Core samples, CBR's and other invasive investigations to be carried out prior to construction. All findings to be reported to the Engineer.

KEY:

- Proposed new kerbline to roundabout
- Proposed edging to cycle/footway
- 400mm x 400mm x 65mm Tactile Paving Slabs coloured buff, laid at dropped pedestrian crossing points. Refer to construction details
- 400mm x 400mm x 50mm Corduroy Paving Slabs, coloured buff, laid at end of cycleway. Refer to construction details drawing.
- Proposed Glasdon Mini-Ensign or equivalent with Diagram 956 on faces
- Proposed pedestrian guardrail to HCC10/M/045
- Proposed sign. Refer to Signs & Markings drawing for details
- Proposed gully and lateral. (HCC Type 1) to be connected into existing lateral with 150ø pipe run.
- Existing lateral 150ø pipe run.
- Existing 225ø Storm sewer pipe.
- Roundabout entry deflection.

CONSTRUCTION

L	30.04.21	Updated to construction following Technical approval	EP
K	08.04.21	Entry widths amended to suit HCC's comments. Layout updated to suit.	CF
J	04.03.21	Deflection and entry widths shown.	EP
H	10.11.20	Note 10 added as per HCC lighting's comment	EP
G	31.10.19	Amended to HCC's comments received 29.10.19	EP
F	28.10.19	Amended to HCC's comments received 25.10.19	EP
REV. No.	DATE	DESCRIPTION	INITIALS

Client

Vistry Group

Hounsme Fields Hatch Warren R'bout

MJA CONSULTING

CIVIL & STRUCTURAL ENGINEERS

Ipsum Court, 24 The Quadrant, Abingdon Science Park, Oxon, OX14 3YS
Tel: 01235 555173
Fax: 01235 523226

Scale

1:500 @ A2

Checked

AKD

Date

May '19

Drawn

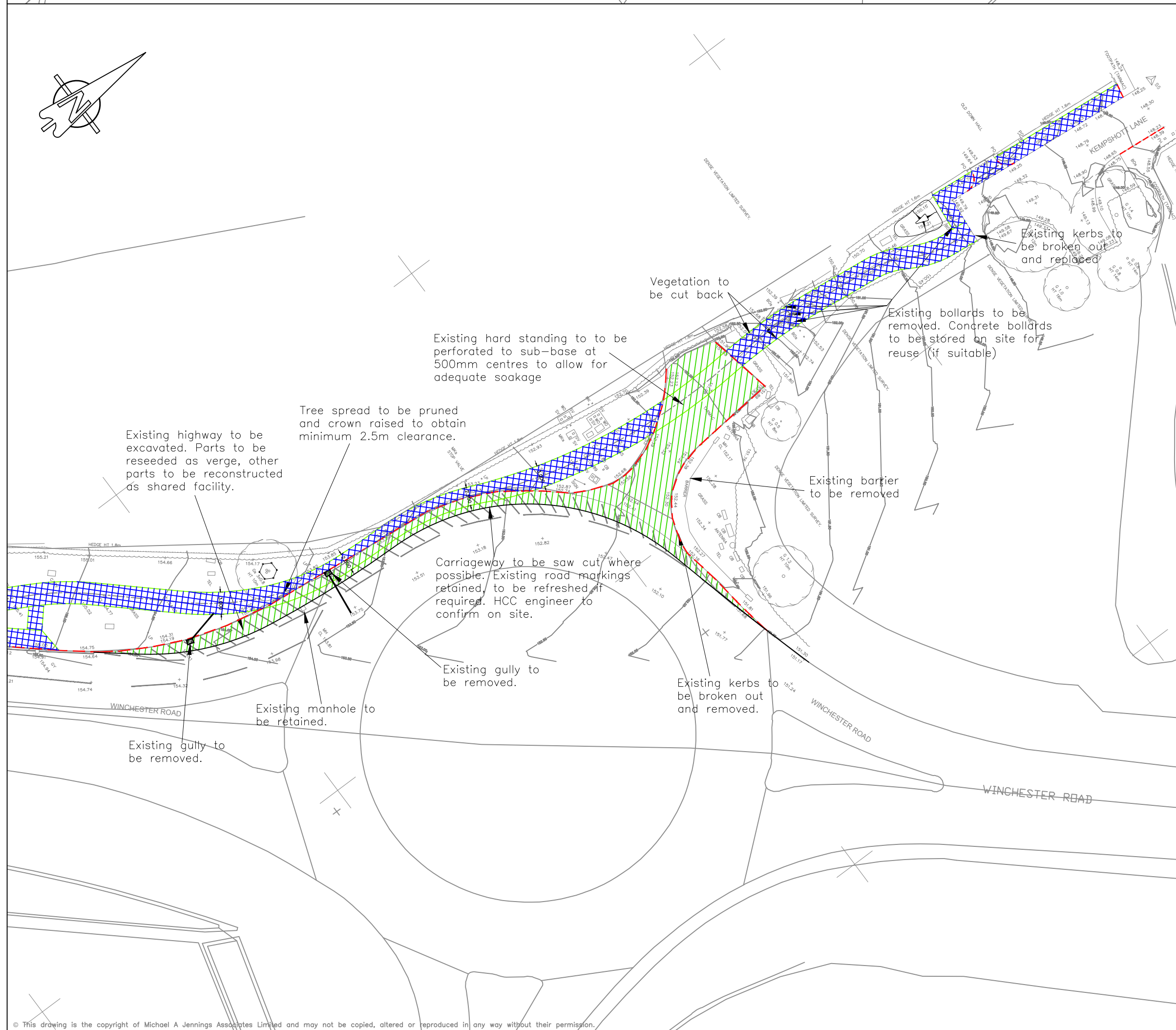
TDF

Drawing No.

5648:HW:100

Rev

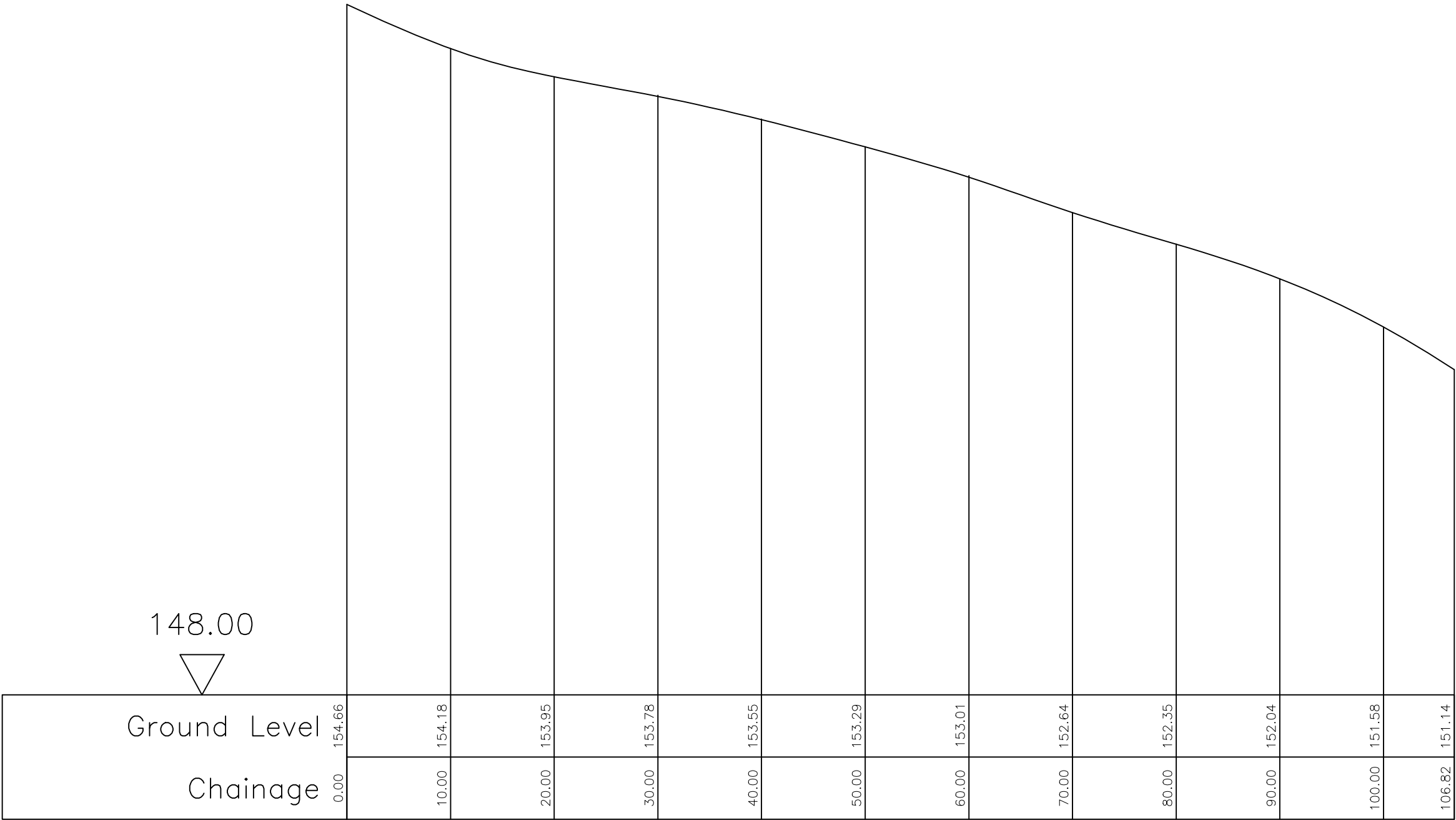
L



Client				
Project	Hatch Warren Roundabout		Ipsum Court, 24 The Quadrant, Abingdon Science Park, Oxon, OX14 3YS Tel: 01235 555173 Fax: 01235 523226	
Title	Section 278 Site Clearance		Scale 1:500 @ A2	Drawing No.
			Checked AKD	Date May '19 Drawn TDF
			5648:HW:102	
			J	

LONGITUDINAL SECTION NOTES

- 1. Ground level shows existing levels of roundabout carriageway surface.
- 2. New roundabout kerb line is to be tied into the existing surface levels.



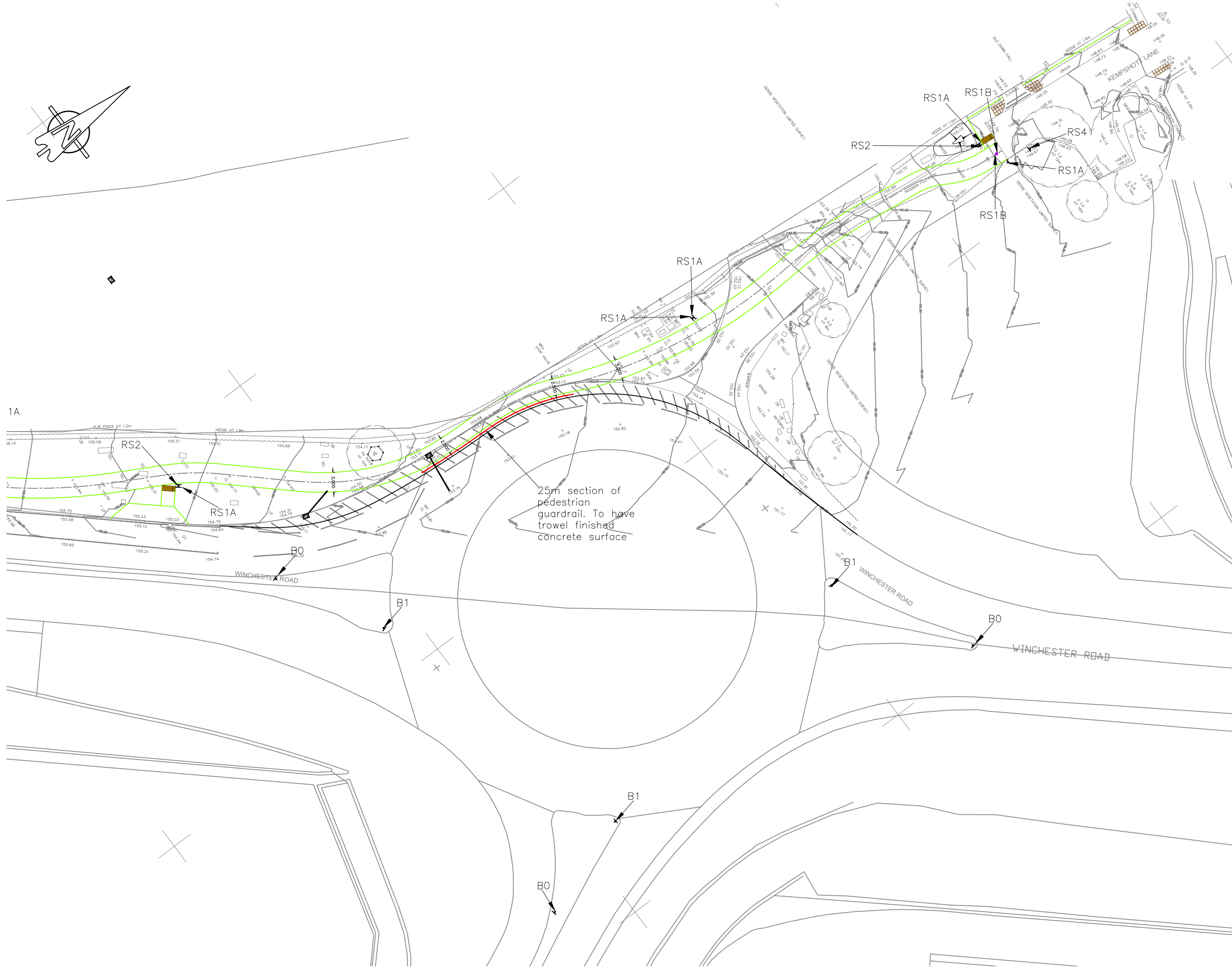
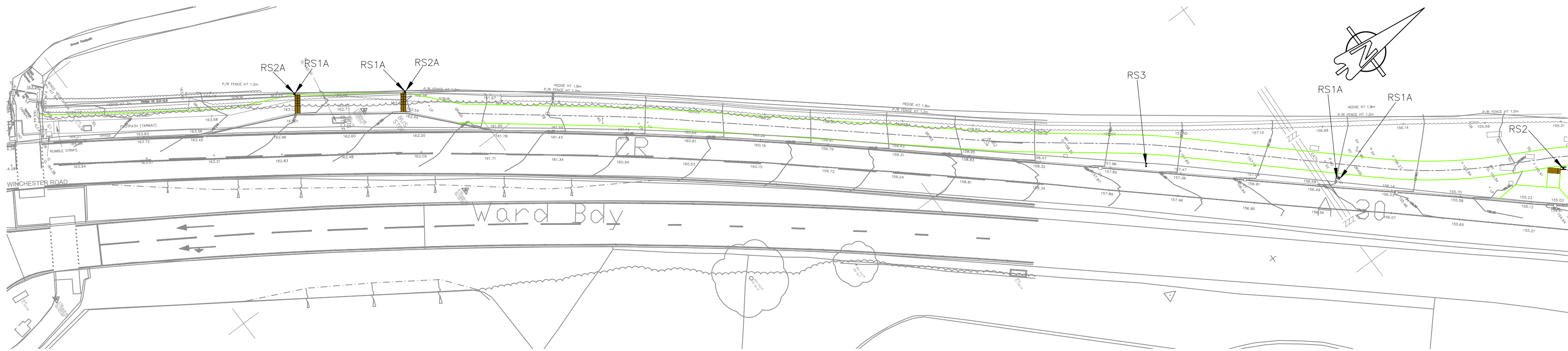
Roundabout New Kerbline
Horiz. 1:500 Vert. 1:50

CONSTRUCTION

B	30.04.21	Updated to construction following Technical approval	EP
A	21.10.19	Amended to HCC's comments received 19.09.19	EP
REV. No.	DATE	DESCRIPTION	INITIALS
Client		Vistry Group MJA CONSULTING CIVIL & STRUCTURAL ENGINEERS Ipsum Court, 24 The Quadrant, Abingdon Science Park, Oxon, OX14 3YS Tel: 01235 555173 Fax: 01235 523226 	
Project Hatch Warren Roundabout			
Title		Scale As Shown @A2	Date May '19
Section 278 Long Section		Checked AKD	Drawn TDF
		Drawing No. 5648:HW:103	Rev B



Client		MJA CONSULTING CIVIL & STRUCTURAL ENGINEERS 			
Vistry Group		Ipsium Court, 24 The Quadrant, Abingdon Science Park, Oxon, OX14 3YS Tel: 01235 555173 Fax: 01235 523226			
Project Hatch Warren Roundabout					
Title	Section 278 Construction Drawing	Scale 1:500 @ A2	Date May '19	Drawing No. 5648:HW:104	Rev H
		Checked AKD	Drawn TDF		



ROAD SIGNS SCHEDULE										
REF.	DIAG. No.	NUMBER OF SIGNS	NUMBER OF POST	DESCRIPTION	SIZE (mm)	MOUNTING (m)	ILLUMINATION	NAL SOCKET YES/NO	POST TYPE	COMMENT
RS1A	956	9	5	UNSEGREGATED SHARED USE CYCLEWAY	300	REFER TO NOTES	NONE	NO	5M STREET LIGHT COLUMN	TO BE MOUNTED ON EXISTING STREET LIGHT WHERE POSSIBLE OR ON NEW POST INSTALLED TO HCC DETAILS
RS1B	956	2	0	UNSEGREGATED SHARED USE CYCLEWAY	150	MINI ENSIGN	NONE	NO	GLASDON MINI-ENSIGN OR EQUIVALENT	INSTALLED TO MANUFACTURER'S SPECIFICATION
RS2	965	2	0	CYCLEWAY END OF ROUTE	495 x 540	REFER TO NOTES	NONE	NO	76Ø STRAIGHT POST SEE NOTE B	INSTALLED TO HCC DETAILS
RS2A	966	2	0	CYCLISTS DISMOUNT	515 x 220	1.800	NONE	NO	76Ø STRAIGHT POST SEE NOTE B	INSTALLED TO HCC DETAILS
RS3	-	1	2	HATCH WARREN ROUNDABOUT ADS	1925 x 2100	1.800	NONE	NO	Lattix 4412	INSTALLED TO HCC DETAILS
RS3A	-	1	-	HATCH WARREN ROUNDABOUT ADS	2585 x 2465	1.800	NONE	NO	MOUNTED ON EXISTING POSTS	INSTALLED TO HCC DETAILS
RS3B	-	1	-	HATCH WARREN ROUNDABOUT ADS	2585 x 2465	1.800	NONE	NO	MOUNTED ON EXISTING POSTS	INSTALLED TO HCC DETAILS
RS4	967	1	1	ADVISORY CYCLE ROUTE	495 x 540	REFER TO NOTES	NONE	NO	76Ø STRAIGHT POST SEE NOTE B	INSTALLED TO HCC DETAILS
B0	610	1	-	KEEP LEFT	600	1.200	NONE	NO	MOUNTED ON TMP FLECTA TRAFFIC BOLLARD	INSTALLED TO HCC DETAILS
B1	-	1	-	PLAIN FACE	600	1.200	NONE	NO	TMP FLECTA TRAFFIC BOLLARD PLAIN FACE	INSTALLED TO HCC DETAILS

NOTES

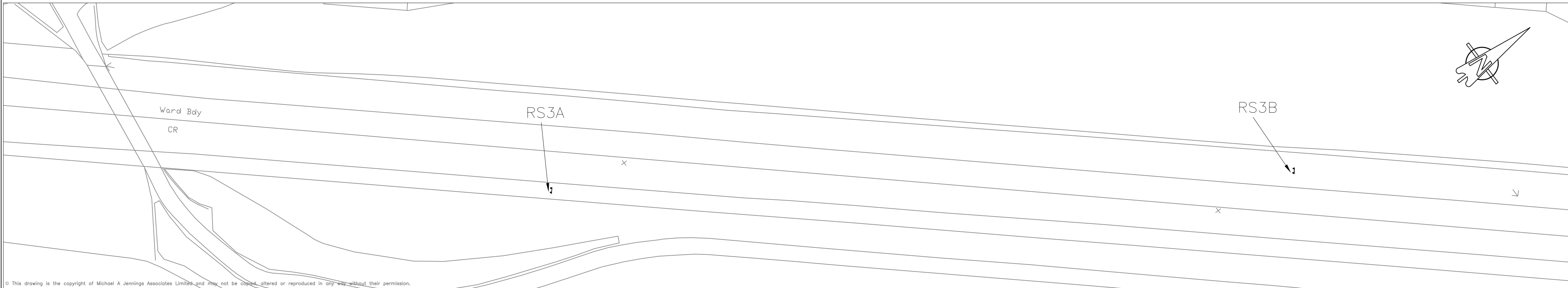
- All dimensions are in millimetres unless otherwise stated.
- Markings are shown indicatively only. All traffic markings and signs shall be in accordance with the traffic signs regulations and general directions 2016 and associated amendments.
- Contractor to liaise with HCC to establish maintenance numbers and mark signs according to HCC approval.
- All road markings to be thermo plastic screed with retro reflective glass beads & to comply with BS 3262 & BS EN 1436.
- The mounting heights of all signs to be;
1.6m - Verge
2.1m - Footway/adjacent verge
2.4m - cycle way/adjacent verge.
Unless otherwise stated
- All signs to have a minimum lateral clearance of 450mm from the kerb face unless otherwise stated
- Sign face direction indicated on drawing.
- Signs & supplementary plates shall be retro-reflective to Class 2.
- Any existing road markings to be removed from carriageway to be removed by hydro-blasting.
- Any existing vegetation to be cut back where signs are obstructed.

SIGN SCHEDULE NOTES:

- EXTERNALLY ILLUMINATED AND NON-ILLUMINATED ASSEMBLIES SIGN FACE TO BE RETRO REFLECTIVE MATERIAL AND SHALL COMPLY WITH BS EN 12899/1:2007 CLASS REF RA2.
- SIGN POSTS (WIDE BASE AND STRAIGHT POSTS) SHALL BE TUBULAR STEEL HOLLOW SECTION POSTS, COMPLYING WITH BS 4848 AND SHALL BE MANUFACTURED FROM STEEL COMPLYING WITH GRADE Fe 430c OF BS EN 10 025.
- 76mmØ POSTS SHALL BE 3.2mm WALL THICKNESS.

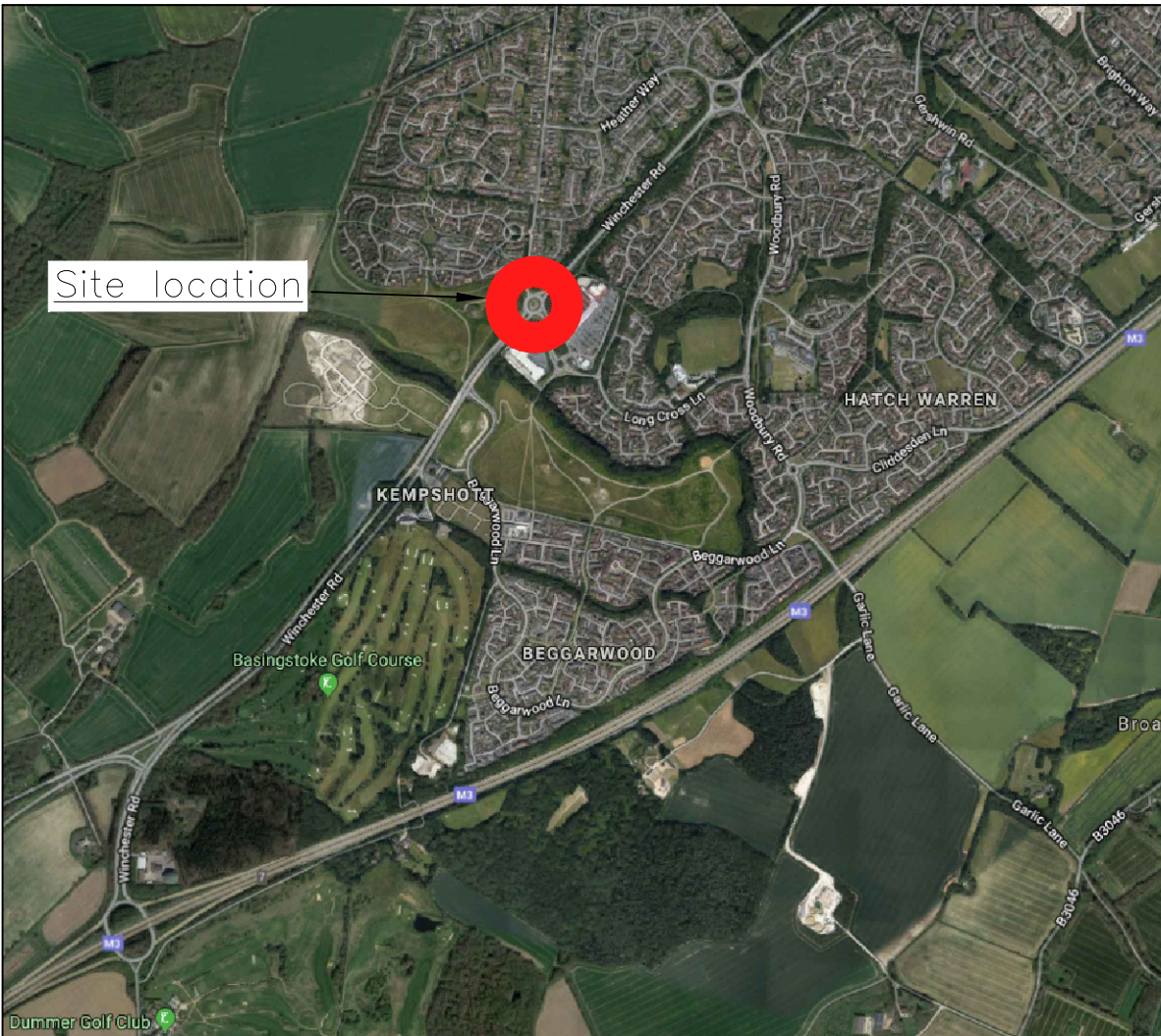
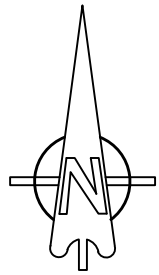
POST & FOUNDATION NOTE:

- ALL EXISTING SIGNS TO BE RELOCATED SHALL BE FIXED TO NEW POSTS, 76mmØ (3.2mm THICKNESS) STRAIGHT POSTS, UNLESS NOTED OTHERWISE.
- POSTS SHALL BE TUBULAR STEEL HOLLOW SECTION POSTS, COMPLYING WITH BS 4848 AND SHALL BE MANUFACTURED FROM STEEL COMPLYING WITH GRADE Fe 430c OF BS EN 10 025.
- 76mmØ POST FOUNDATIONS SHALL BE 450mm x 450mm x 750mm DEEP, CONCRETE MIX ST2, 89mmØ POST FOUNDATIONS SHALL BE 525mm x 525mm x 825mm DEEP, CONCRETE MIX ST2, AND TO ACCORD CONSTRUCTION DETAILS



CONSTRUCTION

J	30.04.21	Updated to construction following Technical approval	EP
H	08.04.21	Entry widths amended to suit HCC's comments. Layout updated to suit.	CF
G	04.03.21	Note added stating markings to be renewed at northbound entry.	EP
F	31.10.19	Amended to HCC's comments received 29.10.19	EP
E	28.10.19	Amended to HCC's comments received 25.10.19	EP
D	25.10.19	Amended to HCC's comments received 24.10.19	EP
C	21.10.19	Amended to HCC's comments received 19.09.19	EP
REV. No.	DATE	DESCRIPTION	INITIALS
Client			
Project		Title	
Hatch Warren Roundabout		Section 278 Signs & Markings	
Scale		Date	
1:500 @ A1		May '19	
Checked		Drawn	
AKD		TDF	
Drawing No.			Rev
5648:HW:105			J



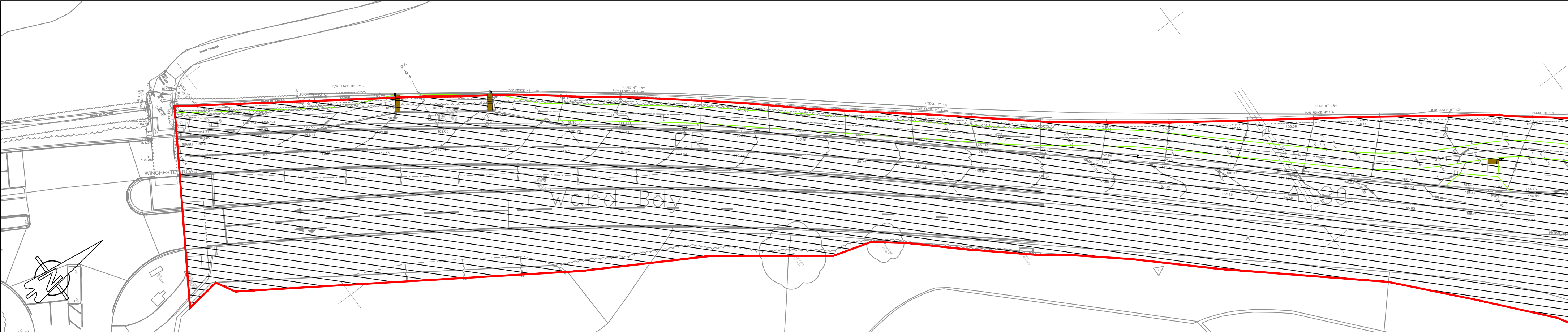
Not to Scale

Location map ©2019 Google

CONSTRUCTION

C	30.04.21	Updated to construction following Technical approval	EP
B	25.10.19	Amended to HCC's comments received 24.10.19	EP
A	21.10.19	Amended to HCC's comments received 19.09.19	EP
REV. No.	DATE	DESCRIPTION	INITIALS

Client Vistry Group		MJA CONSULTING CIVIL & STRUCTURAL ENGINEERS Ipsum Court, 24 The Quadrant, Abingdon Science Park, Oxon, OX14 3YS Tel: 01235 555173 Fax: 01235 523226			
Project Hatch Warren Roundabout					
Title Section 278 Site Location Plan		Scale 1:2500 @ A2	Date May '19	Drawing No. 5648:HW:106	Rev C
		Checked AKD	Drawn TDF		



KEY:

- Existing highway boundary (indicative)
- Existing highway land

CONSTRUCTION

C	30.04.21	Updated to construction following Technical approval	EP
B	25.10.19	Amended to HCC's comments received 24.10.19	EP
A	21.10.19	Amended to HCC's comments received 19.09.19	EP
REV. No.	DATE	DESCRIPTION	INITIALS

Client

Vistry Group

Project

Hounsme Fields,
Hatch Warren R'bout

Title

Section 278
Land Plan

Scale

1:500 @ A2

Checked

AKD

Date

May '19

Drawn

TDF

Drawing No.

5648:HW:107

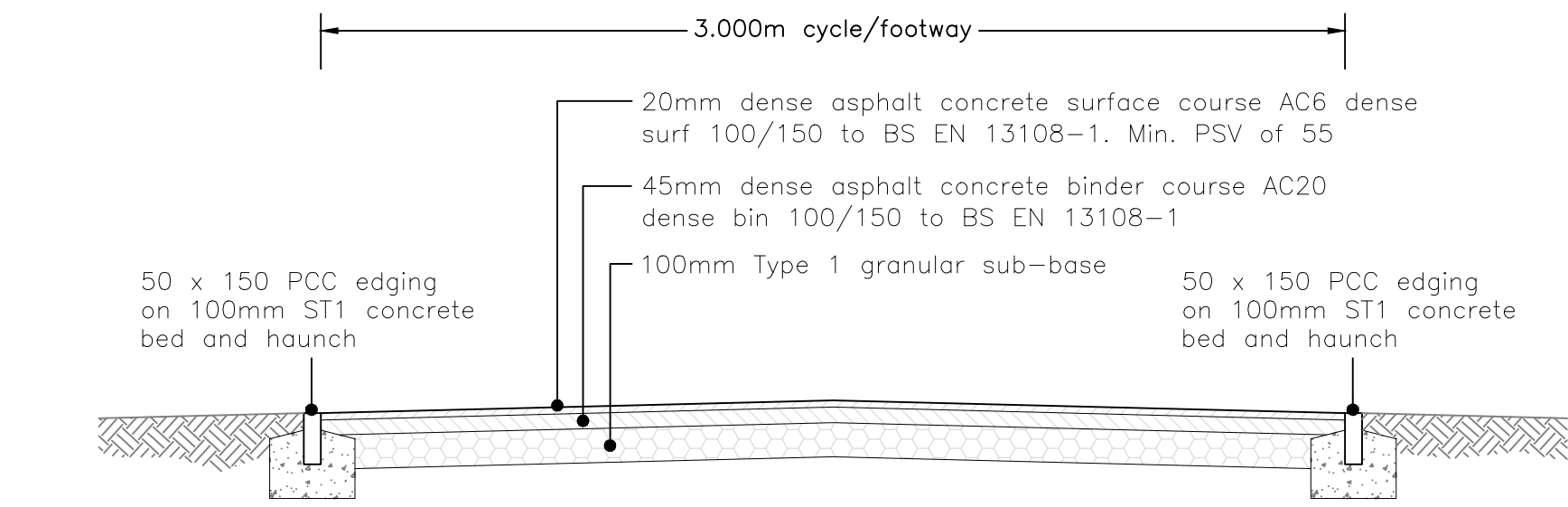
Rev

C

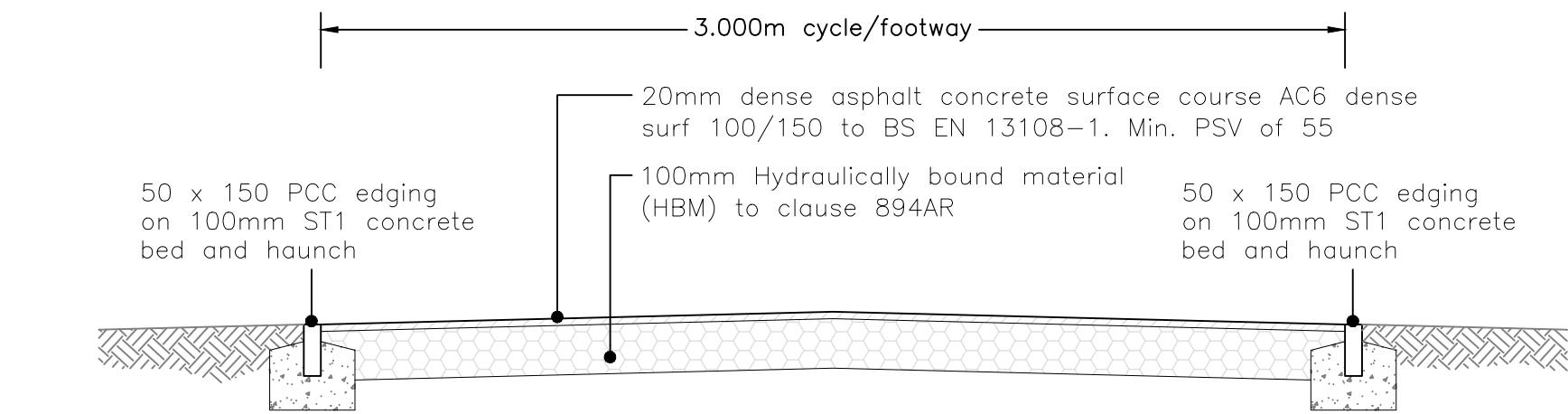
MJA CONSULTING

CIVIL & STRUCTURAL ENGINEERS

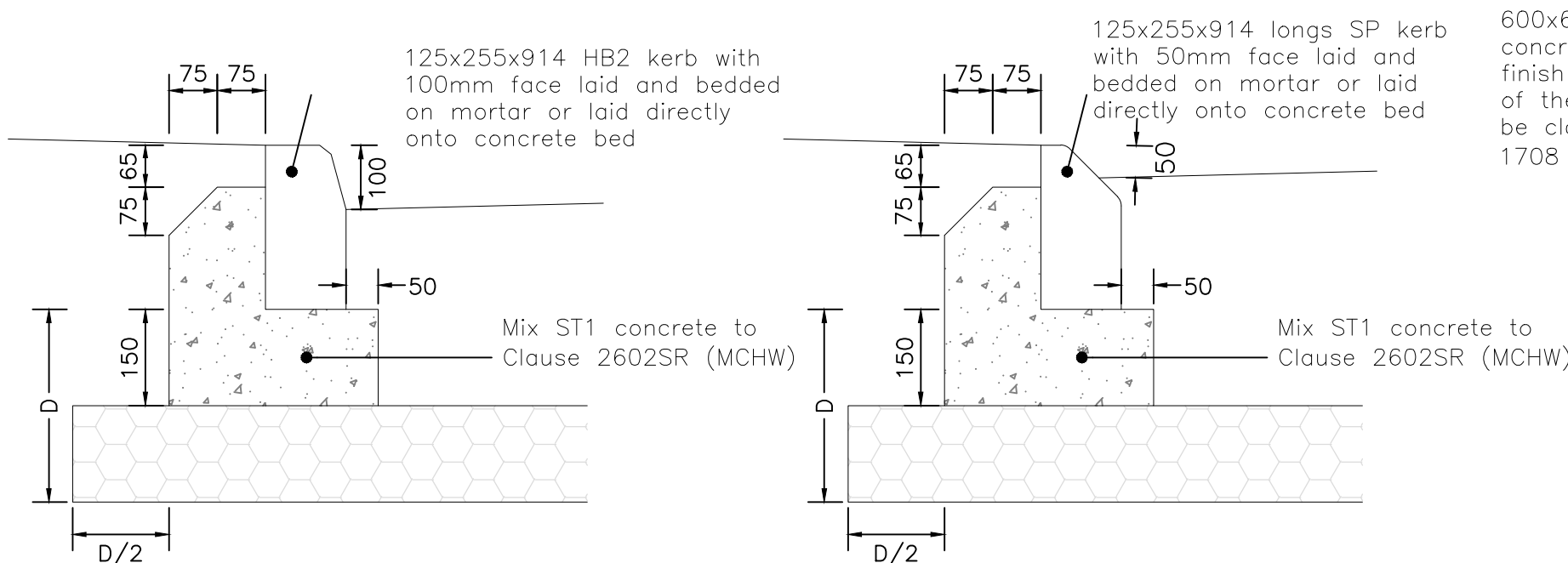
Ipsum Court, 24 The Quadrant,
Abingdon Science Park,
Oxon, OX14 3YS
Tel: 01235 555173
Fax: 01235 523226



TYPICAL SECTION THROUGH SHARED USE CYCLE/FOOTWAY BUILT ON EXISTING VERGE
Refer to HCC10/C/045 Scale: 1:20

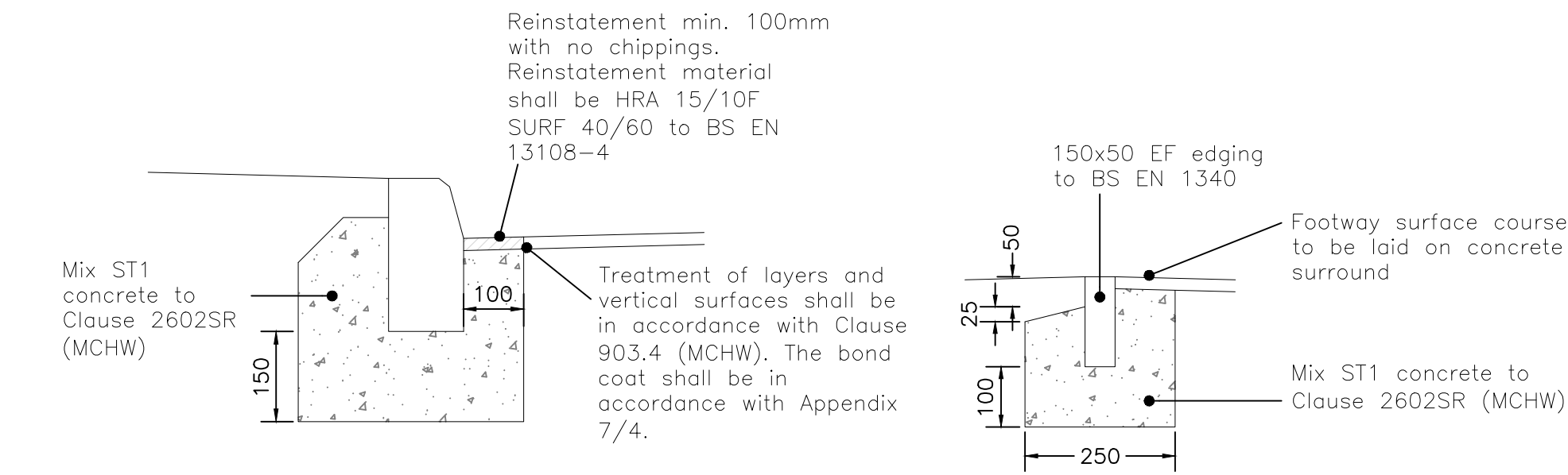


TYPICAL SECTION THROUGH SHARED USE CYCLE/FOOTWAY BUILT ON EXISTING CARRIAGEWAY
Refer to HCC10/C/045 Scale: 1:20



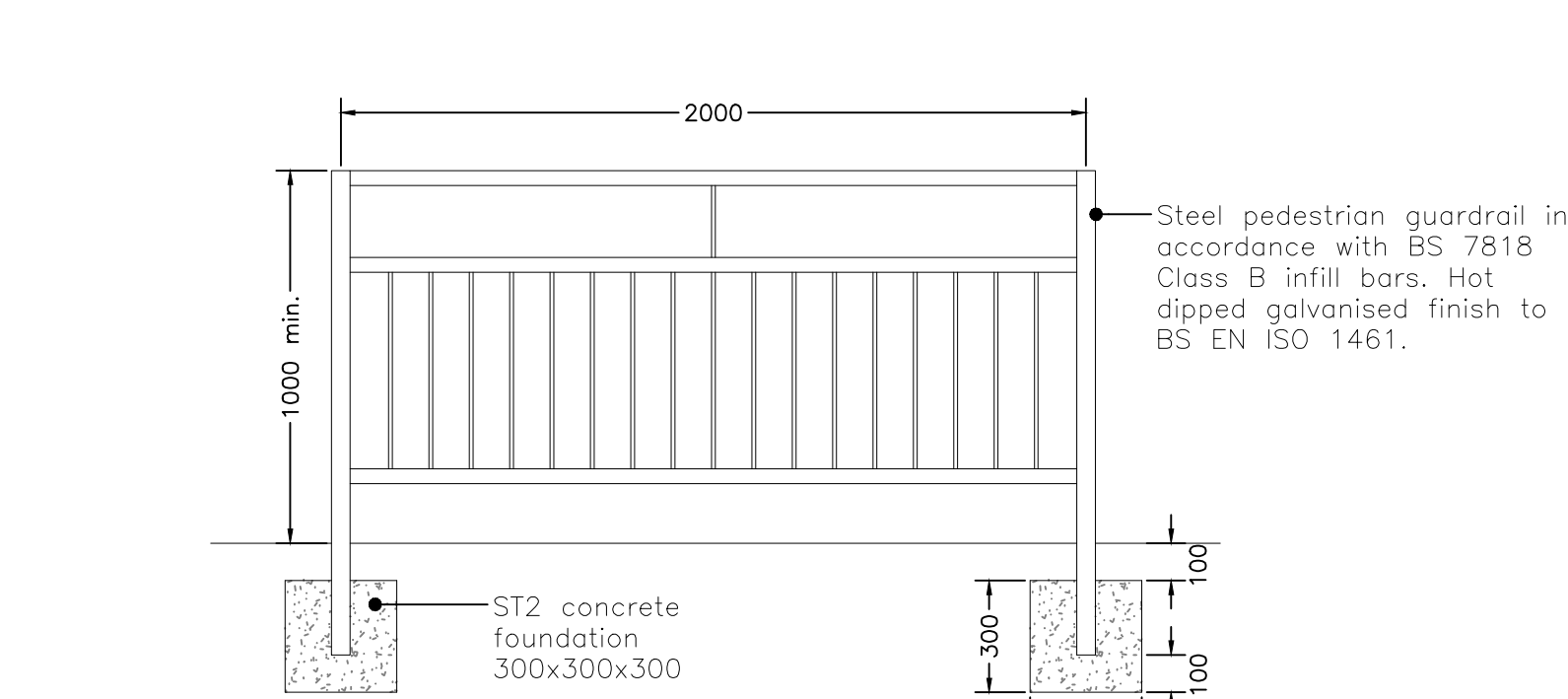
KERB TYPE PC1 (HB2)
Refer to HCC10/C/010
Scale: 1:10

KERB TYPE PC2 (SP)
Refer to HCC10/C/010
Scale: 1:10

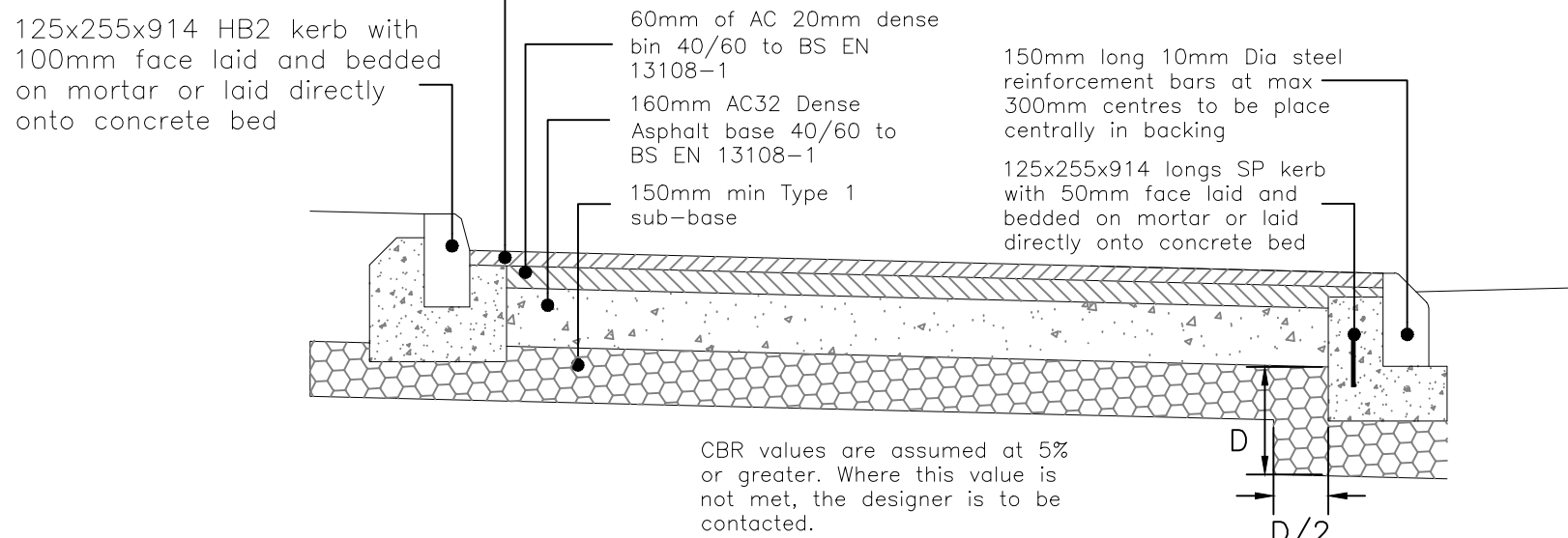


KERB REPLACEMENT ON NEW BASE
Refer to HCC10/M/005
Scale: 1:10

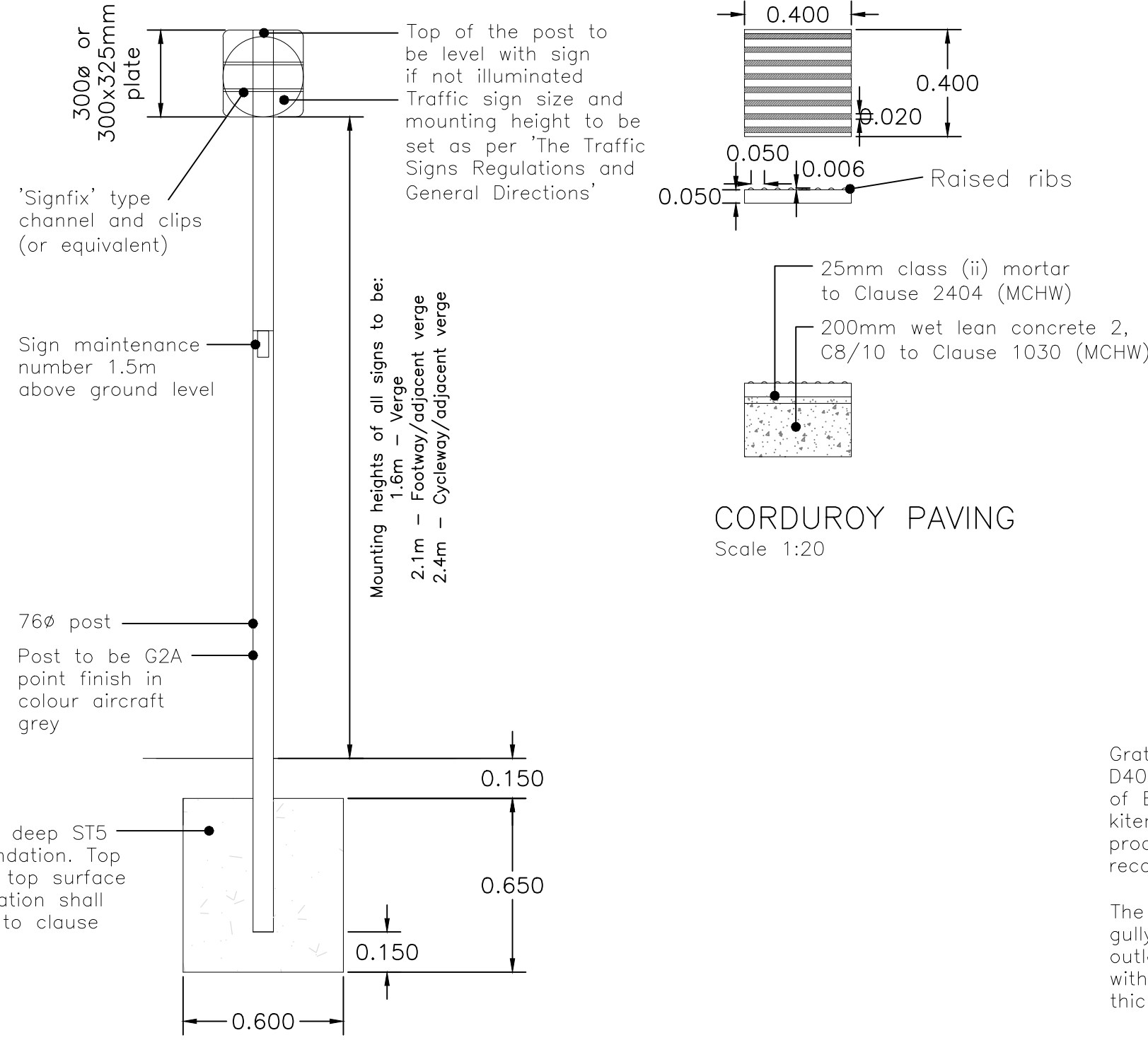
EF EDGING
Refer to HCC10/C/045
Scale: 1:10



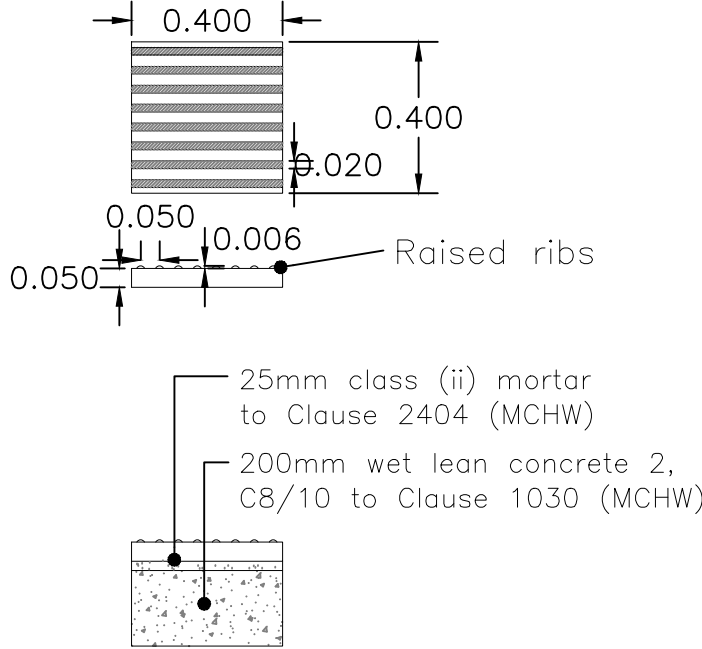
PEDESTRIAN GUARDRAIL
Refer to HCC10/M/045
Scale 1:20



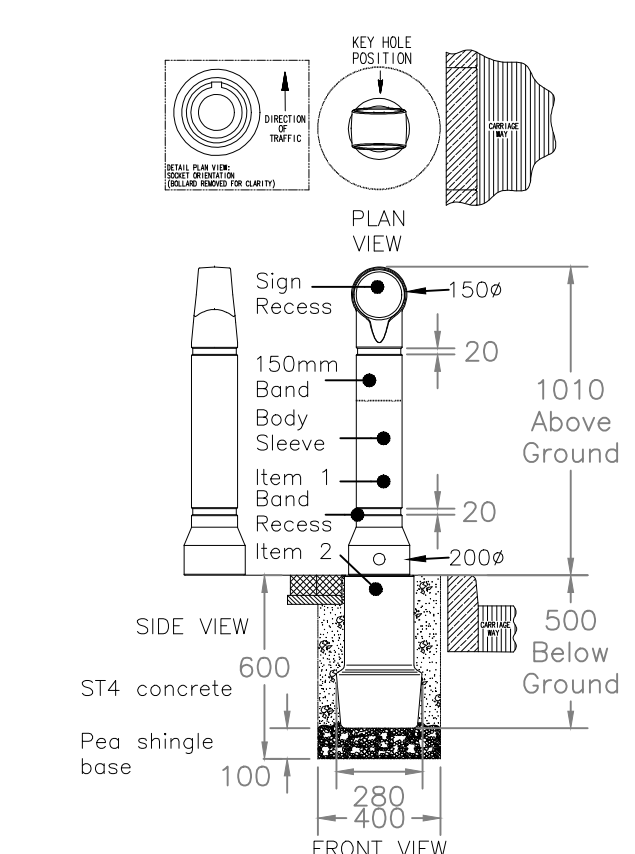
SECTION THROUGH PROPOSED MAINTENANCE BAY
Refer to HCC10/c/125 Scale 1:20



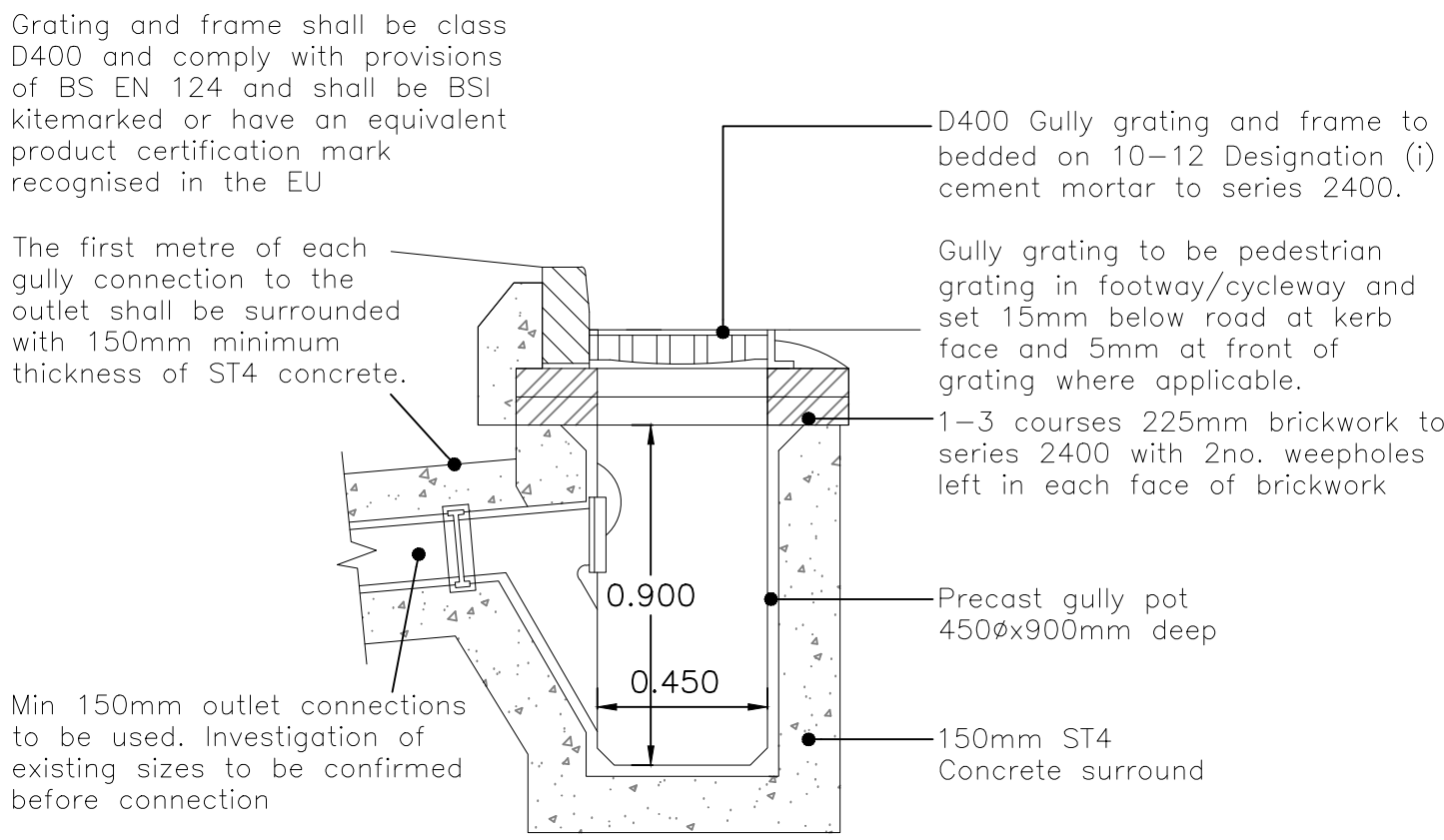
NON-ILLUMINATED TRAFFIC SIGN DETAILS
Scale: 1:20



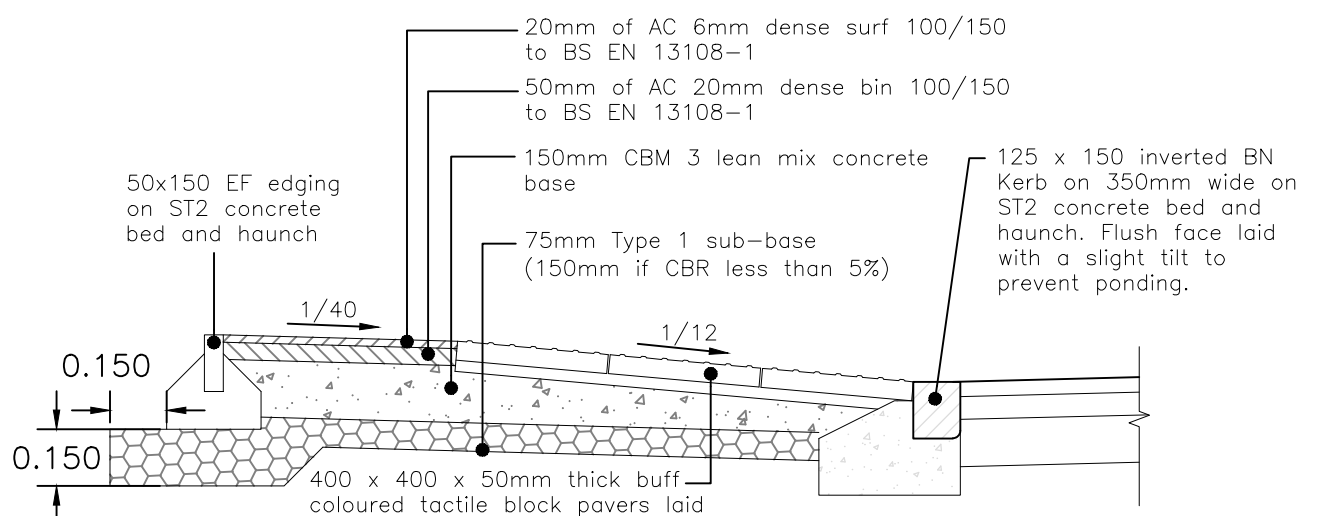
CORDUROY PAVING
Scale 1:20



GLASDON MINI ENSIGN BOLLARD
Scale NTS



PRECAST HIGHWAY GULLY DETAIL G2
Scale N.T.S.



TYPICAL SECTION THROUGH PEDESTRIAN CROSSING ON RADIUS
Scale 1:20

HAMPSHIRE COUNTY COUNCIL STANDARD CONSTRUCTION DETAIL DRAWINGS TO BE USED:-	
HCC10/C/010	: PRECAST CONCRETE KERBS
HCC10/C/045	: FOOTWAYS TYPES 1B & EDGING TYPE EF
HCC10/C/125	: VEHICULAR VERGE CROSSING DETAIL
HCC10/M/130	: CONCRETE BOLLARD
HCC10/M/005	: REPLACEMENT KERB LAID ON NEW BASE
HCC10/M/045	: PEDESTRIAN GUARD RAIL

- PRODUCT INFORMATION:
- WEIGHT : BOLLARD 5.0 Kg
 - SOCKET 3.8 Kg
 - TOTAL 8.8 Kg
 - MATERIAL : DURAPOL®
 - COLOURS : MILLSTONE, SANDSTONE, BLACK, AIRCRAFT GREY, STONE AND WHITE
 - DIMENSIONS : ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED.

- INSTALLATION GUIDE:
- ITEM 1 - REMOVABLE BOLLARD SOCKET COMPLETE WITH LOCKING MECHANISM
 - ITEM 2 - PERMANENT GROUND SOCKET
 - ITEM 3 - QUICK SETTING CONCRETE

- ITEM 4 - GRAVEL
- ITEM 5 - BLOCK PAVING
- SITE SOCKET IN ORIENTATION SHOWN IN DETAIL PLAN VIEW TO ENSURE CORRECT POSITIONING OF KEY HOLE. ENSURE REFLECTIVE BANDING IS IN THE CORRECT ORIENTATION - RED TOWARDS ONCOMING TRAFFIC (YELLOW ON CENTRAL RESERVATION).
- RECOMMENDED HOLE SIZE 400mm x 600mm DEEP. THIS BOLLARD IS ALSO AVAILABLE WITH SURFACE MOUNT FIXINGS, CONCRETE-IN ANCHOR FIXINGS OR GUARDSMAN® ANTI-RAM RAID FIXING. WE RECOMMEND THE SOCKET IS BEDDED ON GRAVEL FOR DRAINAGE.
- COVER SOCKET TO AVOID BUILD UP OF CONCRETE/GRAVEL IN SOCKET, WHICH WILL PREVENT BOLLARD FROM SEATING AND LOCKING. AVOID CONTACT WITH HOT TARMACADAM AS THIS WILL SERIOUSLY IMPAIR THE PERFORMANCE OF THE BOLLARD.
- WE RECOMMEND INSTALLING WITH QUICK SETTING CONCRETE (eg GRADE OCT10) BUT EXACT INSTALLATION REQUIREMENTS SHOULD BE ASSESSED FROM A SITE SURVEY.

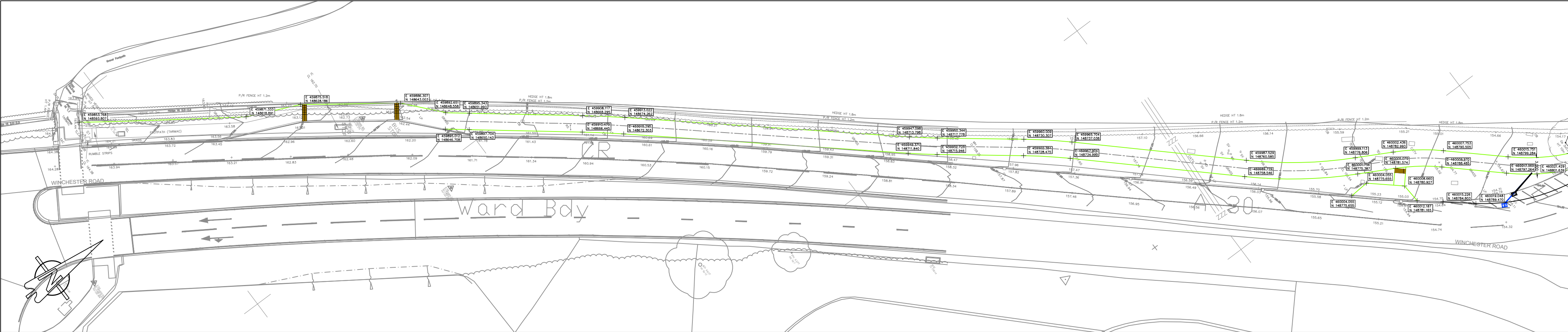
- OPTIONAL PARTS:
- PEDESTRIAN SAFETY, A LOCKING BLANKING CAP IS AVAILABLE TO COVER THE SOCKET WHEN THE BOLLARD IS REMOVED.
 - ADDITIONAL SECURITY, A KEY HOLE PLU MAY BE FITTED TO THE BOLLARD TO HELP PREVENT UNAUTHORISED REMOVAL OF THE BOLLARD. RETROREFLECTIVE AND NON-REFLECTIVE SIGNFACES ARE AVAILABLE.

- STANDARD SIGNFACES:
- 2 x 150mm SIGNFACE ALUMINIUM BACKED RETROREFLECTIVE BANDING (TO BS EN 12899-1:2007, FIXED, VERTICAL ROAD TRAFFIC SIGNS) OR DECORATIVE BANDING MAY BE FITTED.
 - STANDARD BANDING SETS:
 - 2 x 20mm BANDS (WITHIN THE 2 BAND RECESSES).
 - 1 x 150mm BAND.
 - 1 x 480mm BODY SLEEVE.
 - SPARE BOLLARDS, SOCKETS, KEYS, SIGNFACES AND BANDING ARE AVAILABLE.
 - ALL RETROREFLECTIVE MATERIALS SUPPLIED BY GLASDON ARE AS RECOMMENDED IN TABLE NA1 OF THE NATIONAL ANNEX OF BS EN 12899-1 2007 FIXED VERTICAL ROAD SIGNS.

CONSTRUCTION

G	30.04.21	Updated to construction following Technical approval	EP
F	28.10.19	Amended to HCC's comments received 25.10.19	EP
E	25.10.19	Amended to HCC's comments received 24.10.19	EP
D	21.10.19	Bollard Detail Removed	EP
C	10.09.19	Tactile Details added	EP
B	23.08.19	Amended to HCC comments received 19.08.19	EP
A	19.08.19	Detail for footway being built on existing carriageway added	EP
REV. No.	DATE	DESCRIPTION	INITIALS

Client		Vistry Group		MJA CONSULTING CIVIL & STRUCTURAL ENGINEERS	
Project		Hatch Warren Roundabout		Ipsium Court, 24 The Quadrant, Abingdon Science Park, Oxon, OX14 3YS Tel: 01235 555173 Fax: 01235 523226	
Title		Section 278 Construction Details		Scale As Shown @A1 Checked AKD	Date May '19 Drawn TDF
				Drawing No. 5648:HW:108	Rev G



GENERAL NOTES

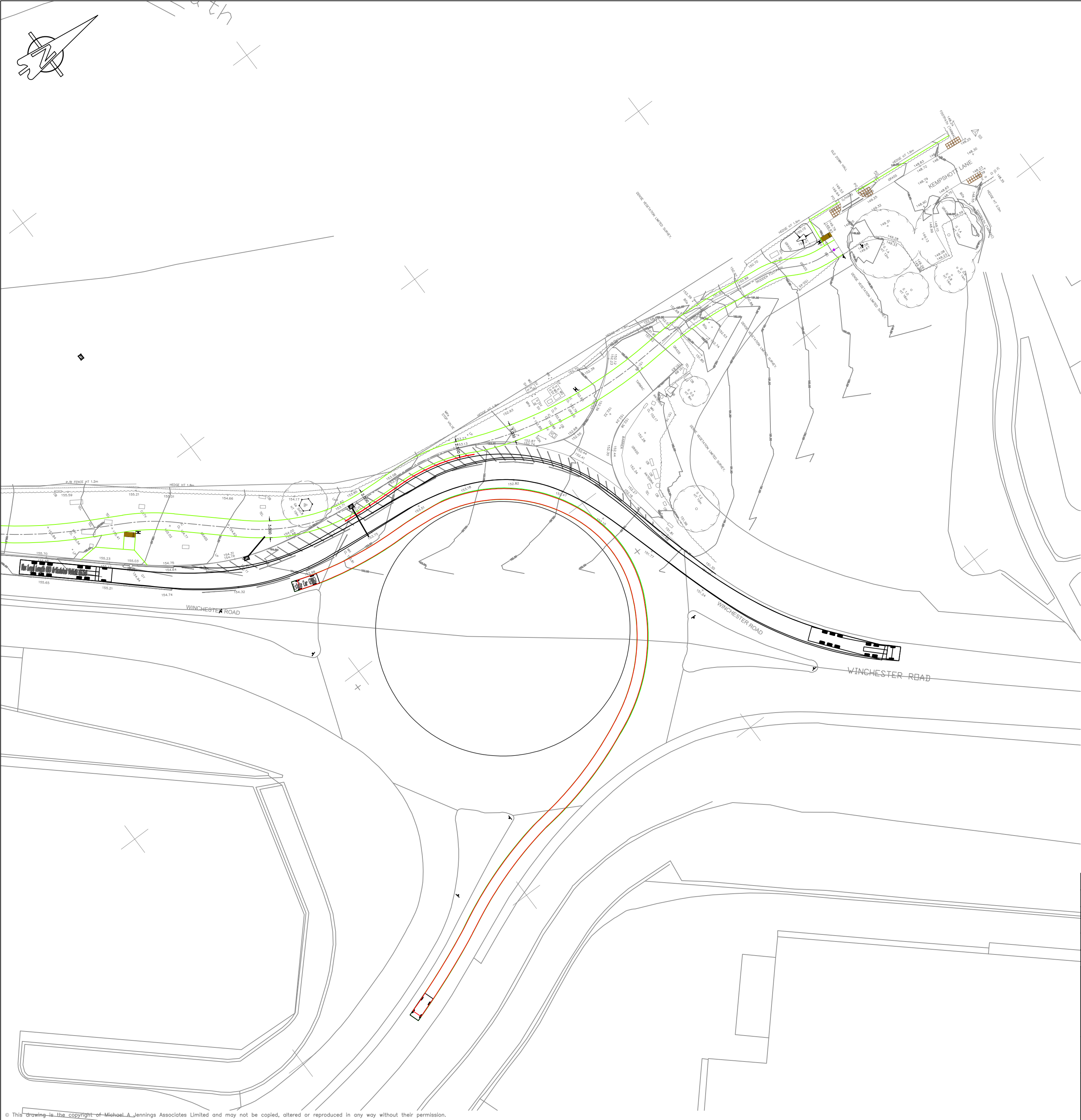
- These notes are to be referred to throughout the design pack 5648-WD-S278
- All dimensions are in metres unless otherwise stated.
- Topographical survey information provided by others. MJA cannot be held responsible for any inaccuracies
- Levels are in metres and relate to OS GPS datum.
- This drawing is to be read in conjunction with all drawings, notes and specification from the MJA design pack 5648-WD-S278. The contractor is to satisfy themselves that there are no discrepancies within the design pack before commencing on site. If in doubt, ask.
- All works to be carried out in strict accordance with "The Specification for Highway Works – modified & extended",
- All works shall be completed to the satisfaction of the Hampshire County Council (HCC) engineer.
- All works within the public highway shall be carried out and comply with the requirements of the DTP 'Traffic Signs Manual Chapter 8– traffic measures and signs for land works and temporary situations'.
- All road markings and traffic signs shall comply with "The Traffic Signs Regulations and General Directions 2016".
- All existing levels to be confirmed on site prior to commencement of any works.
- The contractor shall contact all utilities companies prior to commencing and excavation. It is the contractor's responsibility to locate the exact position of all underground and overhead services, cables, pipes etc prior to the excavations and to take all necessary protective measures.
- The contractor shall make good any damage caused to walls, fences, kerbing, surfacing, road signs etc at his own expense as instructed by the Engineer and Highway Authority.
- The contractor shall indemnify the Client, Engineer and Highway Authority against damage to any highway authority property or statutory undertakers plant and any costs associated with the disruption of services and the repair/replacement of the damaged plant. no work on site shall commence until written evidence of the above indemnity has been submitted to and accepted by the Engineer.
- All works to be undertaken in compliance with project specification & to HCC approval.
- Any discrepancies between project specification & HE requirements to be reported immediately to the engineer.
- Core samples, CBR's and other invasive investigations to be carried out prior to construction. All findings to be reported to the Engineer.

SETTING OUT NOTES

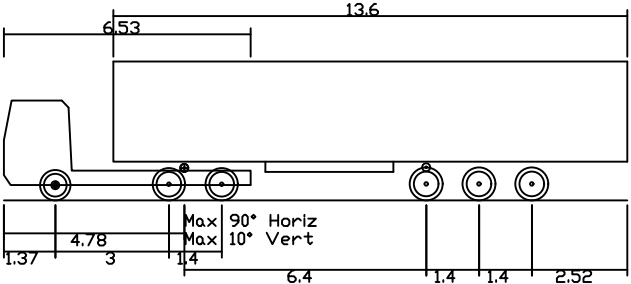
- This drawing to be read in conjunction with all other relevant Architect's and Engineer's details.
- Do not scale, work to figured dimensions only.
- Should any discrepancies be found, Engineer to be contacted immediately.
- If check dimensions are required, please contact the Engineer.

CONSTRUCTION

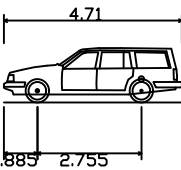
F	30.04.21	Updated to construction following Technical approval	EP
E	31.10.19	Amended to HCC's comments received 29.10.19	EP
D	28.10.19	Amended to HCC's comments received 25.10.19	EP
C	25.10.19	Amended to HCC's comments received 24.10.19	EP
B	21.10.19	Amended to HCC's comments received 19.09.19	EP
A	10.09.19	Amended to reflect new arrangment	EP
REV. No.	DATE	DESCRIPTION	INITIALS
Client			
Vistry Group		MJA CONSULTING CIVIL & STRUCTURAL ENGINEERS Ipsum Court, 24 The Quadrant, Abingdon Science Park, Oxon, OX14 3YS Tel: 01235 555173 Fax: 01235 523226	
Project Hatch Warren Roundabout		Scale 1:500 @ A2 Checked AKD	
Title Section 278 Setting Out		Date May '19 Drawn TDF	
		Drawing No. 5648:HW:109	
		Rev F	



KEY:



Max Legal Length (UK) Articulated Vehicle (16.5m)
Overall Length 16.500m
Overall Width 2.550m
Overall Body Height 3.681m
Min Body Ground Clearance 0.411m
Max Track Width 2.500m
Lock to lock time 6.00s
Kerb to Kerb Turning Radius 6.530m



Estate Car (2006)
Overall Length 4.710m
Overall Width 1.804m
Overall Body Height 1.442m
Min Body Ground Clearance 0.207m
Max Track Width 1.756m
Lock to lock time 4.00s
Kerb to Kerb Turning Radius 5.950m

CONSTRUCTION

D	30.04.21	Updated to construction following Technical approval	EP
C	08.04.21	Entry widths amended to suit HCC's comments. Tracks updated to suit.	CF
B	04.03.21	Track moved to new drawing 112 to separate out swept paths and clearly show the is no conflict between HGVs and cars.	EP
A	21.10.19	Amended to HCC's comments received 19.09.19	EP
REV. No.	DATE	DESCRIPTION	INITIALS

Client

Vistry Group

Project

Hatch Warren Roundabout

Title

Section 278 Swept Path Analysis Sheet 1

MJA CONSULTING

CIVIL & STRUCTURAL ENGINEERS

Ipsum Court, 24 The Quadrant, Abingdon Science Park, Oxon, OX14 3YS

Tel: 01235 555173

Fax: 01235 523226

Scale

1:500 @ A2

Checked

AKD

Date

May '19

Drawn

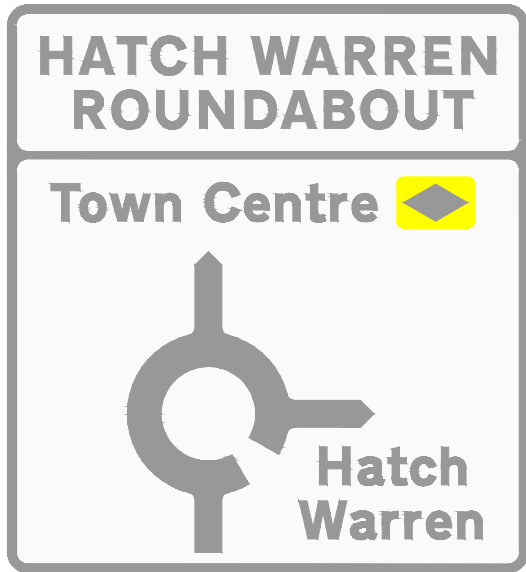
TDF

Drawing No.

5648:HW:110

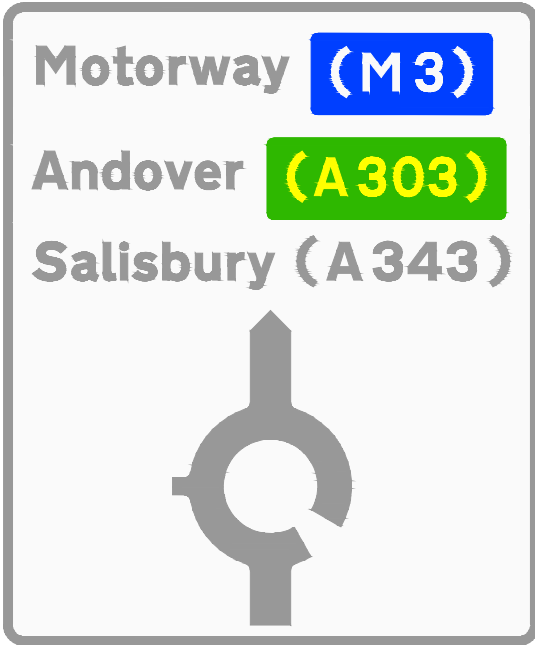
Rev

D



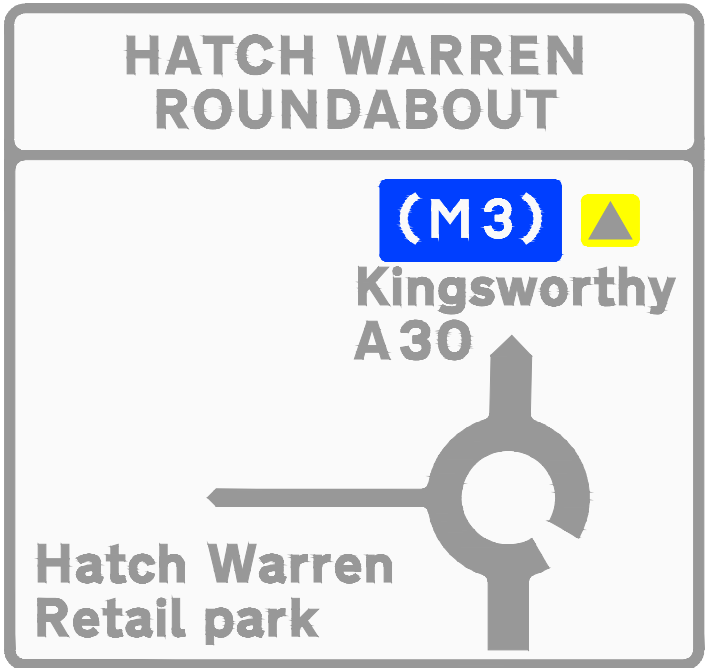
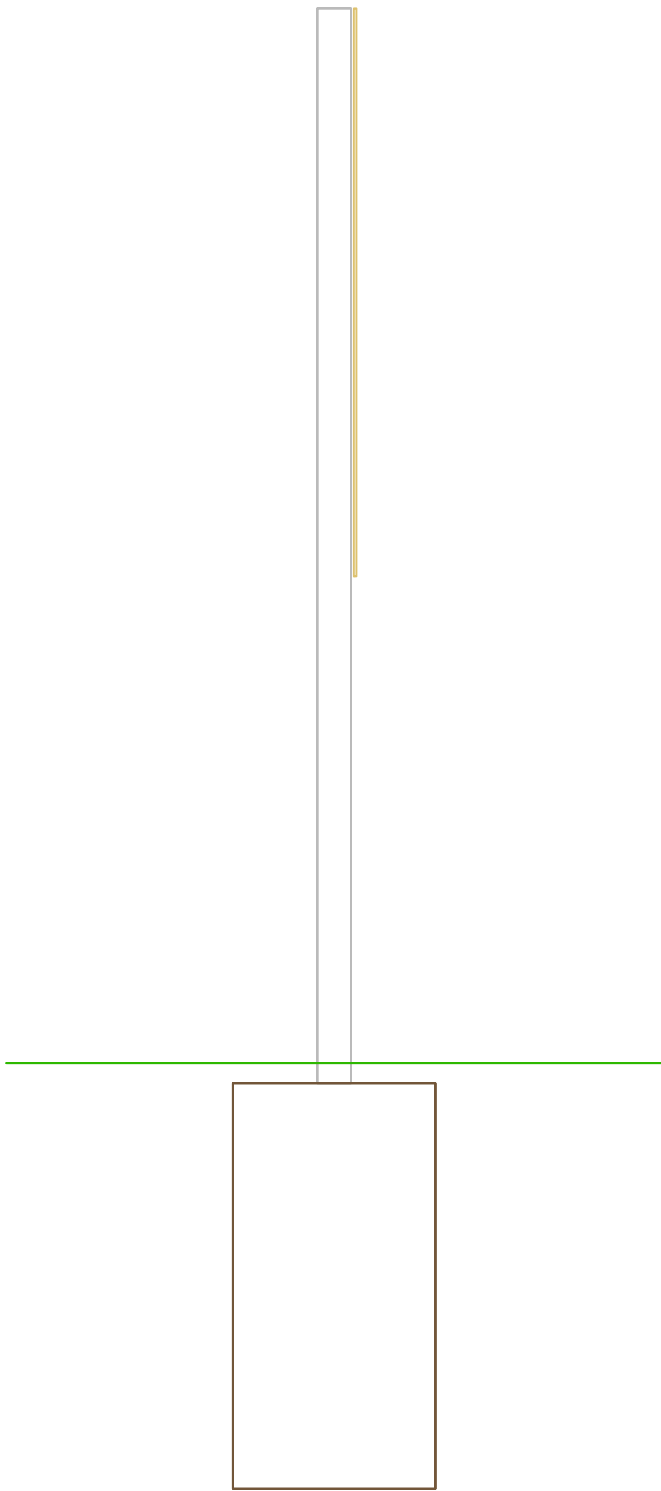
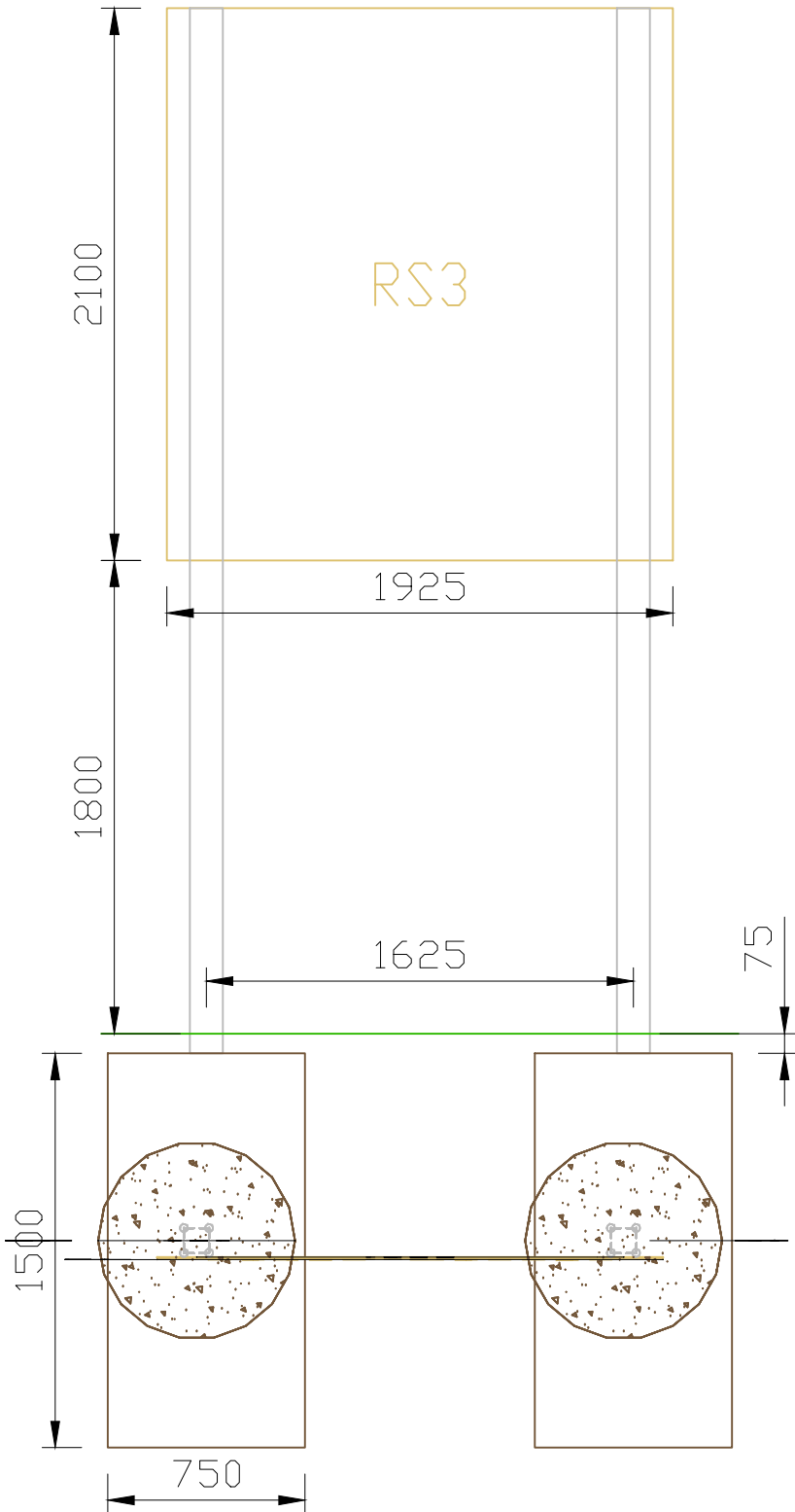
Signing Project	5648				
Sign Reference	Hatch Warren	Width (mm)	1925	Background	White
x Height	100.0	Height (mm)	2100	Border	Black
Material	Class RA2	Area (m ²)	4.04	Legend	Black

Structural Calculation Details	
Signs:	Reference: RS3 Width: 1925mm, Height: 2100mm Shape: Rectangle Orientation: Facing front Mounted on posts: 1, 2 Mounting height: 1800mm, at post
Posts:	Quantity: 2 Type: Lattix 4412 Spacing: 1625mm Post 1 Length: 3975mm Post 2 Length: 3975mm
Base:	Type: Planted Diameter: 750mm Depth: 1500mm Volume: 1.33cu.m Earth cover: 75mm



Signing Project	5648				
Sign Reference	RS3	Width (mm)	1980	Background	White
x Height	100.0	Height (mm)	2375	Border	Black
Material	Class RA2	Area (m ²)	4.70	Legend	Black

Structural Calculation Details	
Signs:	Reference: RS3B Width: 1980mm, Height: 2375mm Shape: Rectangle Orientation: Facing front Mounted on posts: 1, 2 Mounting height: 1800mm, at post



Signing Project	5648				
Sign Reference	RS2	Width (mm)	2585	Background	White
x Height	100.0	Height (mm)	2465	Border	Black
Material	Class RA2	Area (m ²)	6.37	Legend	Black

Structural Calculation Details	
Signs:	Reference: RS3A Width: 2585mm, Height: 2465mm Shape: Rectangle Orientation: Facing front Mounted on posts: 1, 2 Mounting height: 1800mm, at post

CONSTRUCTION

A	30.04.21	Updated to construction following Technical approval		EP
REV. No.	DATE	DESCRIPTION		INITIALS
Client		Vistry Group		
Project		Hatch Warren Roundabout		
Title		Section 278 Advanced Directional Signs	Scale NTS @ A2	Date Sept'19
		Checked AKD	Drawn EP	Rev
		5648:HW:111		A

MJA CONSULTING
CIVIL & STRUCTURAL ENGINEERS
Ipsum Court, 24 The Quadrant,
Abingdon Science Park,
Oxon, OX14 3YS
Tel: 01235 555173
Fax: 01235 523226





Technical drawing of a truck chassis showing dimensions and axle specifications. The drawing includes a side view of the truck body and a detailed view of the chassis and axles.

Dimensions (in inches):

- Overall length: 13.6
- Front overhang: 6.53
- Wheelbase: 4.78
- Front overhang (chassis): 1.37
- Distance between front axles: 3
- Distance between front axle and first rear axle: 1.4
- Distance between first and second rear axles: 6.4
- Distance between second and third rear axles: 1.4
- Distance between third and fourth rear axles: 2.52

Specifications:

- Max. 90° Horiz
- Max. 10° Vert

A diagram of a car with the following dimensions:

- Overall length: 4.71
- Front overhang: 0.885
- Wheelbase: 2.755

B	30.04.21	Updated to construction following Technical approval	EP
A	08.04.21	Entry widths amended to suit HCC's comments. Layout updated to suit.	CF
REV. No.	DATE	DESCRIPTION	INITIALS
Client		 	
Project Hatch Warren Roundabout		CIVIL & STRUCTURAL ENGINEERS Ipsum Court, 24 The Quadrant, Abingdon Science Park, Oxon, OX14 3YS Tel: 01235 555173 Fax: 01235 523226	
Title	Section 278 Swept Path Analysis Sheet 2	Scale 1:500 @ A2 Checked AKD	Date Mar '21 Drawn EP
		Drawing No.	Rev
		5648:HW:112	B