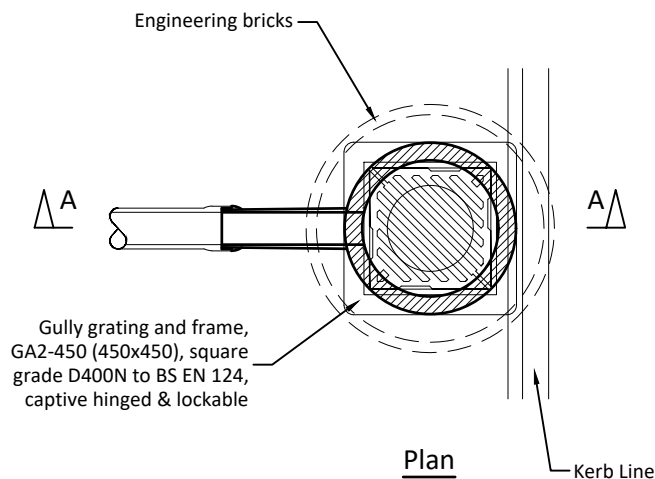
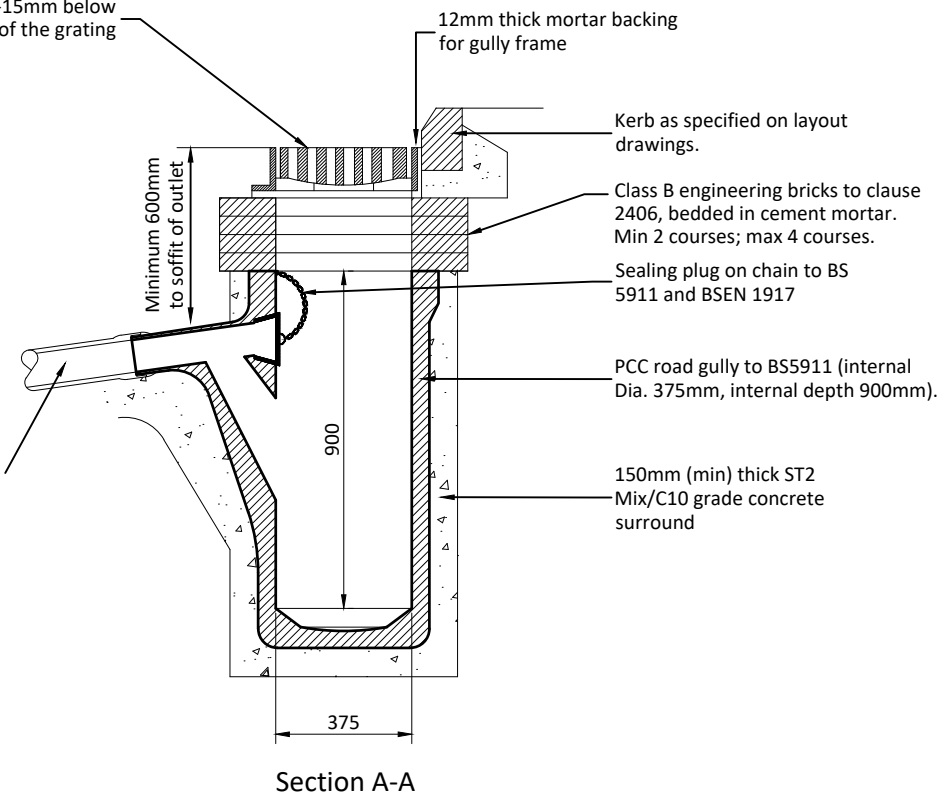




Grating and frame shall be set 10-15mm below finished road level at the front of the grating



150mm outlet surround with 150mm thick concrete

Notes:

- All dimensions in millimeters unless stated otherwise.
- All works are to comply with the Water Authority & Local Authority standard details and specification, as well as the Sewerage Sector Guidance Appendix C - Design and Construction Guidance.
- Gully gratings are to have ribless frames and manhole covers webs at least 30mm below the finished cover level, suitable for the abutting of block paving.
- Gully gratings shall be Class D400, non-rocking & captive hinged, with hinge located at the on-coming traffic end of grating.
- Gully pots should be positioned such that the inside edge of the pot lines up with the front of the kerb with a tolerance of + or - 50mm.
- Detail to be read in conjunction with Wiltshire Council's Standard detail drawing WC-HCD-500-D001_A.

For Planning

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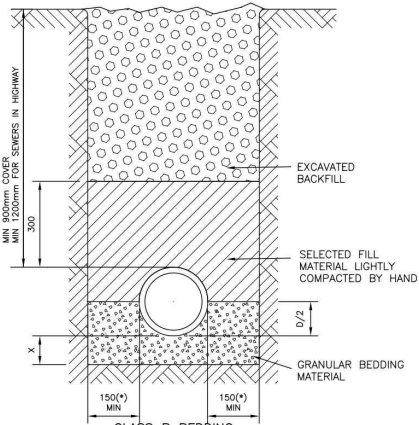
CLIENT: Greatworth Property

PROJECT: Bath Road, Warminster

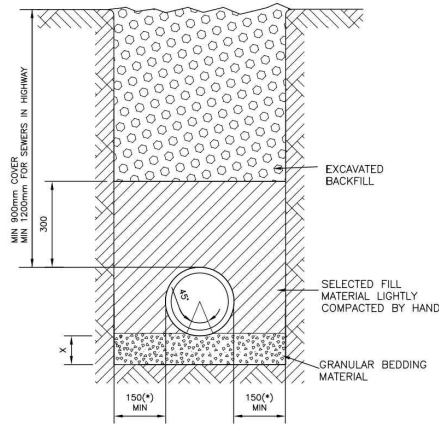
TITLE: Standard Construction Details

Trapped Gully Detail

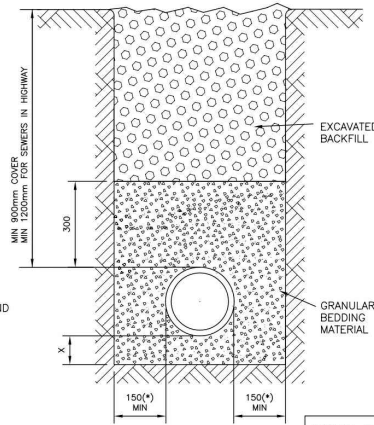
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CAD FILE: Standard Details.dwg	DESIGN/DRAWN: ND	DATE: 08/12/25
PROJECT No: 20-058	DRAWING No: 900501	REV: P01



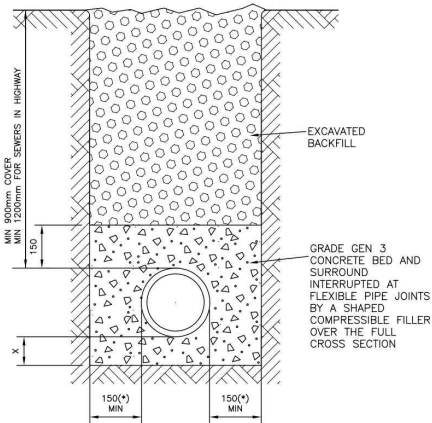
CLASS B BEDDING
Scale 1:10
(SEE NOTE 4)



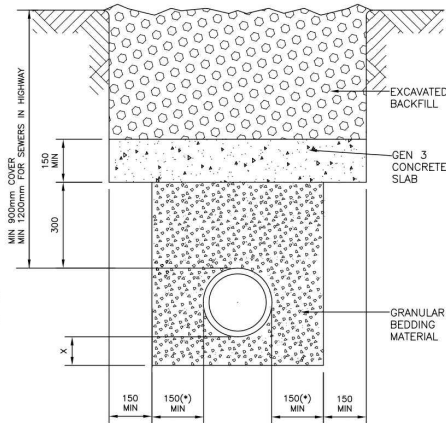
CLASS F BEDDING
Scale 1:10
(SEE NOTE 4)



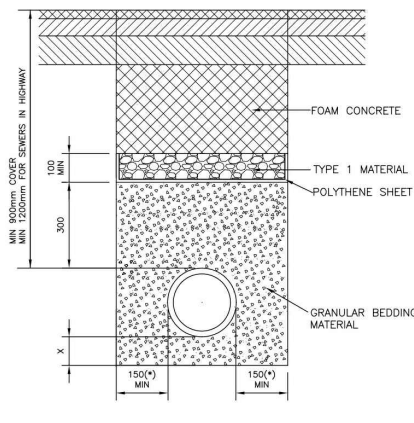
CLASS S SURROUND
Scale 1:10



**CONCRETE SURROUND
(NON PREFERRED)**
Scale 1:10
(SEE NOTE 4)



CONCRETE SLAB PROTECTION
Scale 1:10
(REINFORCEMENT IN SLAB TO
SUIT LOADING CONDITIONS)



**CLASS S SURROUND WITH FOAM
CONCRETE BACKFILL**
Scale 1:10

NOTES

1. * = 150 FOR PIPES DIA UP TO 300mm.
* = 200mm FOR PIPE DIA OVER 300mmØ
BASED ON NARROW TRENCH THEORY:
DESIGNER TO CONFIRM FOR SPECIFIC
PIPELINE.
2. BACKFILL MATERIAL TO BE SELECTED
EXCAVATED MATERIAL WHERE THIS MATERIAL
COMPLIES WITH CESM. ADDITIONAL MATERIAL
TO MAKE UP ANY DEFICIENCY TO BE
GRANULAR SUB-BASE TYPE 1 UNLESS STATED
OTHERWISE.
3. IN WET, SOFT, OR SILTY SOILS, WHERE
LATERAL SUPPORT IS NOT OBTAINED OR
WHERE FINES MAY MIGRATE, THE GRANULAR
BEDDING MATERIAL SHALL BE SURROUNDED BY
GEOTEXTILE FABRIC WITH MIN 200 OVERLAP.
4. NOT ACCEPTABLE FOR USE ON SECTION
104 SITES
5. TRENCH BACKFILL TO MEET HIGHWAY
SPECIFICATION WHEN LAID IN ROAD OR
FOOTPATH
6. DIMENSION IN MILLIMETRES UNLESS OTHERWISE
STATED
7. DEPTH OF COVER REFER TO SEWERS
FOR ADOPTION 6th EDITION CLAUSE 2.10

USE OF GRANULAR BEDDING MATERIAL

NOMINAL BORE OF PIPE (mm)	AGGREGATE SIZE (mm)	
	SINGLE SIZED	GRADED
100	10	14 TO 5
150	10 OR 14	14 TO 5 OR 20 TO 5
225-300	10, 14 OR 20	14 TO 5 OR 20 TO 5
375-525	14 OR 20	14 TO 5 OR 20 TO 5
EXCEEDING 525	14, 20 OR 40	14 TO 5 OR 20 TO 5, 40 TO 5

DIM X ≥ 100mm FOR PIPES ≤ 100mmØ

DIM X ≥ 150mm FOR PIPES > 100mmØ

DIM X 200mm FOR PIPES TRENCHES IN ROCK

J	COVER DEPTHS FOR SEWERS UPDATED	CAM	CAM	JZH	08/06/2010
I	MIN COVER DIMS UPDATED	CAM	CAM	JZH	20/11/2009
H		CN	CAM	JZH	29/05/2009
MK	REVISIONS	DRN	CHK	APP	DATE

TYPICAL PIPE BEDDING
DETAILS FOR PIPES UP
TO 800mm DIA

STANDARD DRAWING

ORIGINAL DRAWING SIZE A2		SCALES 1:10	
INITIALS	DATE		
DESIGNED: SC	23/04/2007		
DRAWN BY: SC	23/04/2007		
DRAWING NUMBER	STD/220	REV.	J

Wessex Water
Wessex Water Services Ltd

For Planning



TRANSPORT PLANNING

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CLIENT:

Greatworth Property

PROJECT:

Bath Road, Warminster

TITLE:

Standard Construction Details

Pipe Bedding Details

SCALE: (A4)
NTS

CHECKED:
DS

APPROVED:
DS

CAD FILE:
Standard Details.dwg

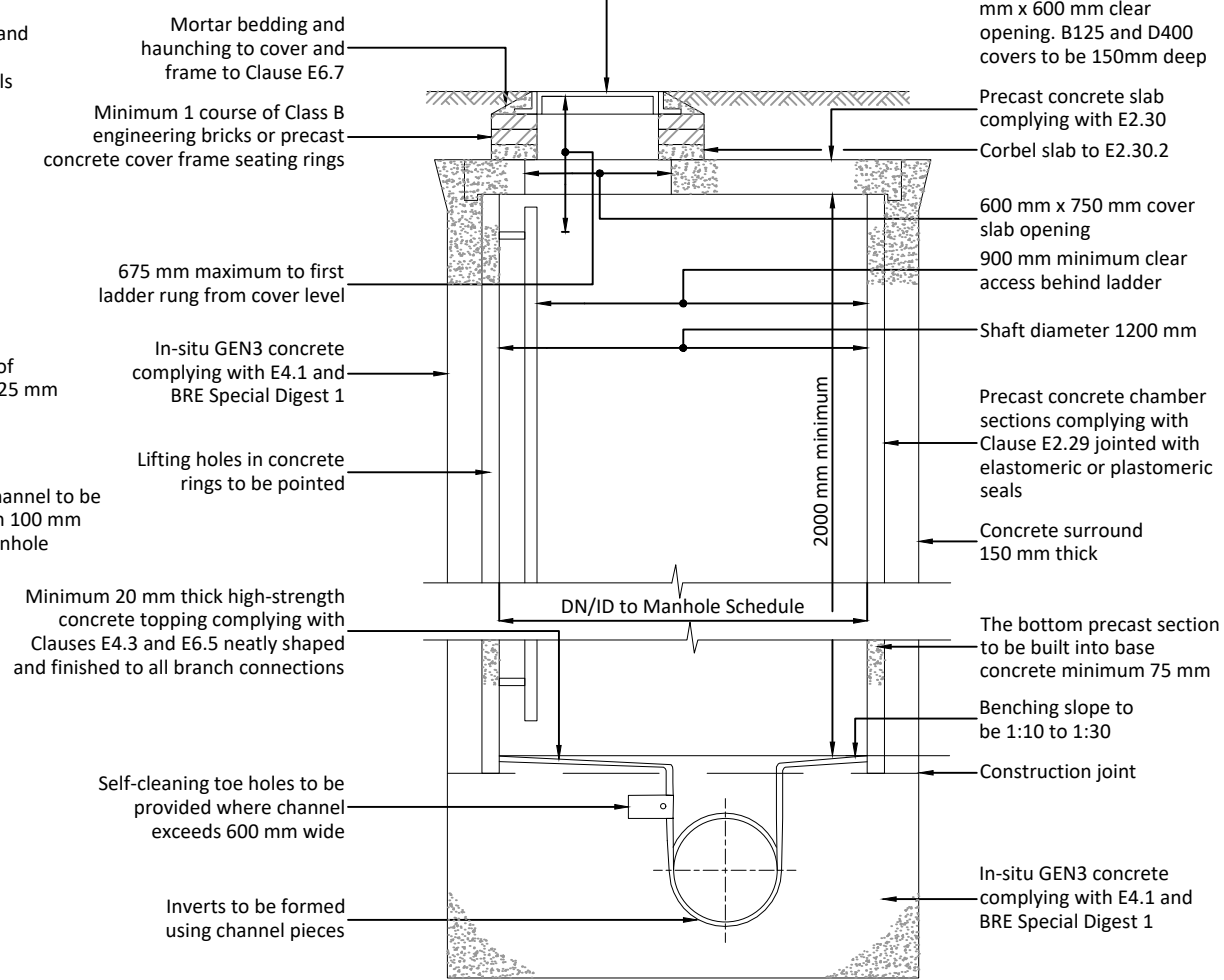
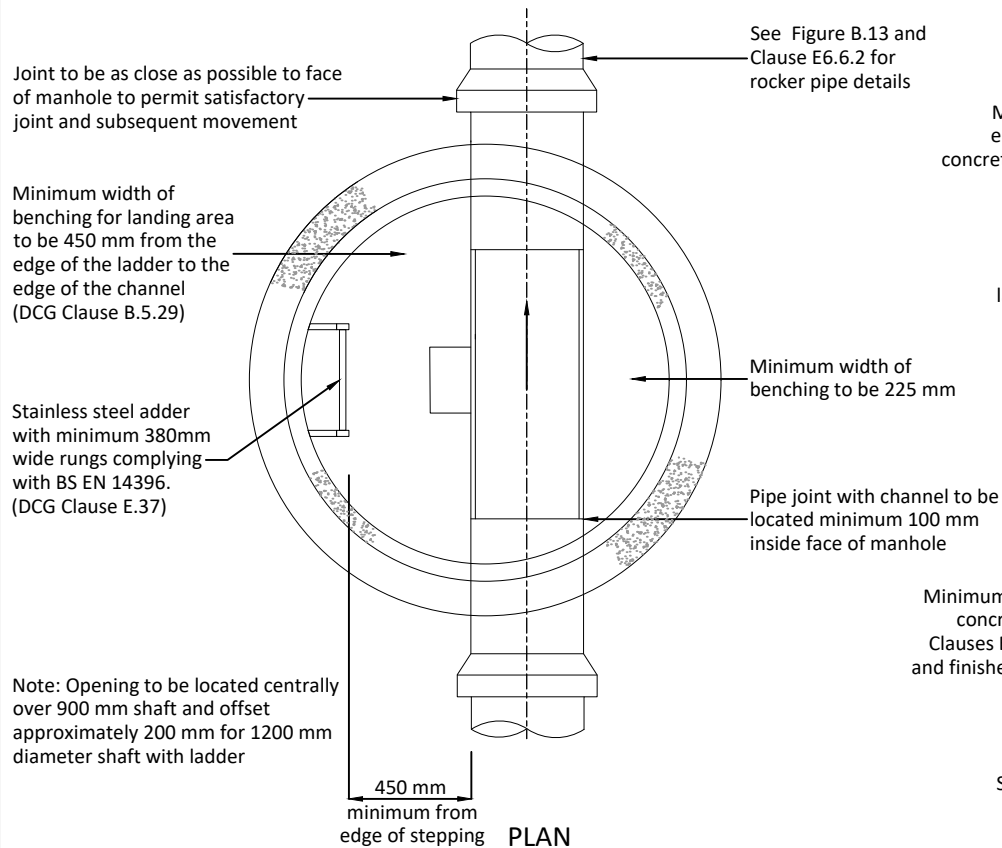
DESIGN/DRAWN:
ND

DATE:
08/12/25

PROJECT No:
20-058

DRAWING No:
0900502

REV:
P01



Section

Notes:

- All works are to comply with the Water Authority & Local Authority standard details and specification, as well as the Sewerage Sector Guidance Appendix C - Design and Construction Guidance.
- Clause references can be found in the Design and Construction Guidance' (DCG).

For Planning

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MONTREUX HOUSE, 18A JAMES STREET WEST
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CLIENT: Greatworth Property

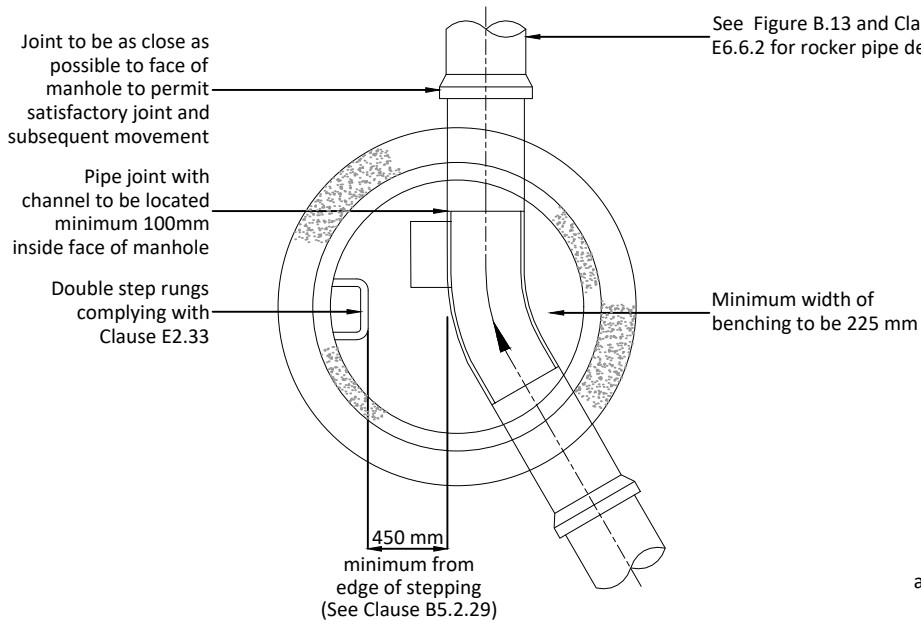
PROJECT: Bath Road, Warminster

TITLE: Standard Construction Details

Typical Manhole Detail - Type A

Depth to pipe soffit from 3m to 6m

SCALE: (A4) NTS	CHECKED: DS	APPROVED: DS
CAD FILE: Standard Details.dwg	DESIGN/DRAWN: ND	DATE: 08/12/25
PROJECT No: 20-058	DRAWING No: 0900503	REV: P01

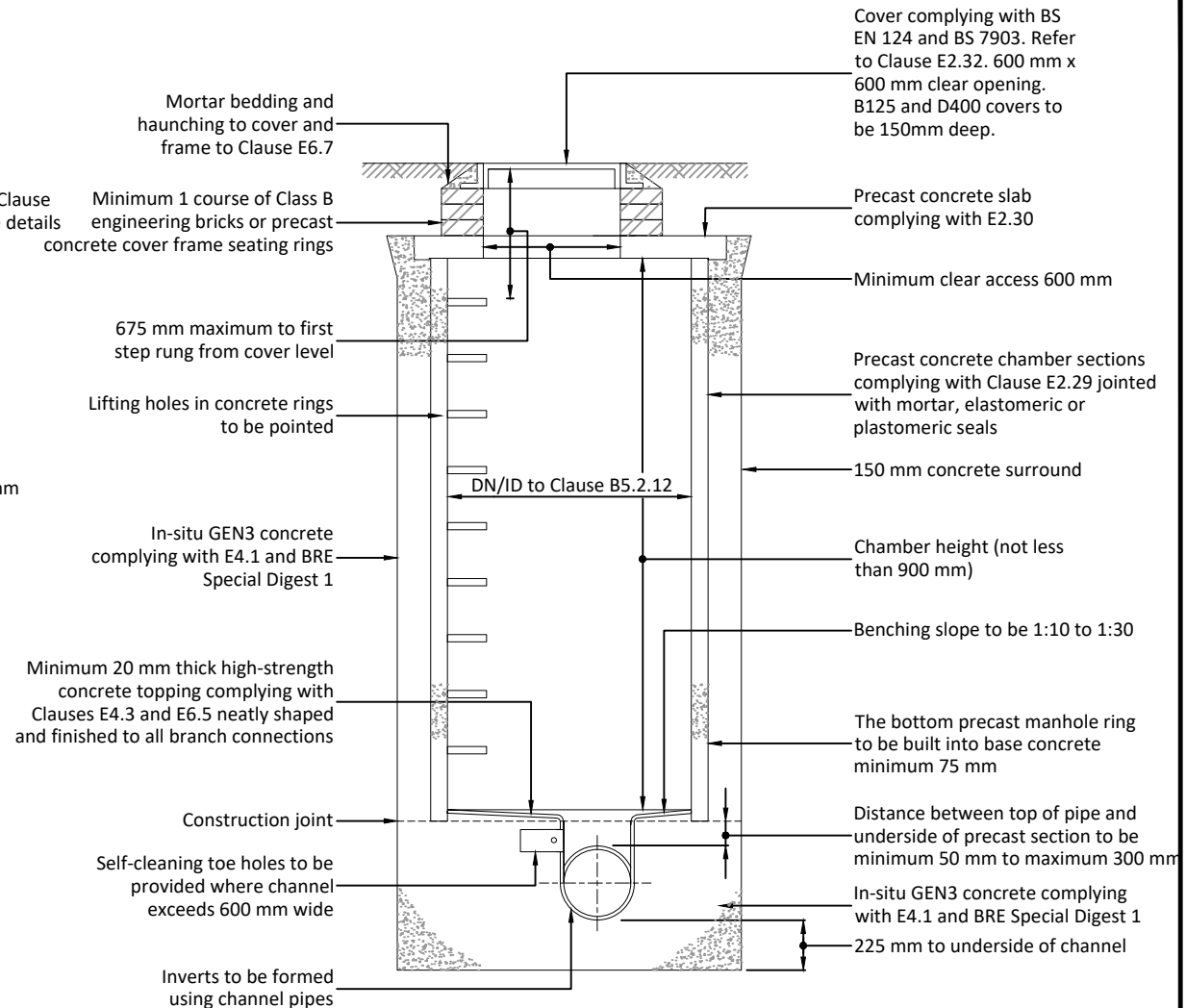


PLAN

For Planning

Notes:

- All works are to comply with the Water Authority & Local Authority standard details and specification, as well as the Sewerage Sector Guidance Appendix C - Design and Construction Guidance.
- Clause references can be found in the Design and Construction Guidance' (DCG).



Section

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CLIENT: Greatworth Property

PROJECT: Bath Road, Warminster

TITLE: Standard Construction Details

Typical Manhole Detail - Type B

Depth to pipe soffit from 1.5m to 3m

SCALE: (A4) NTS	CHECKED: DS	APPROVED: DS
CAD FILE: Standard Details.dwg	DESIGN/DRAWN: ND	DATE: 08/12/25
PROJECT No: 20-058	DRAWING No: 0900504	REV: P01

Internal dimensions of manhole normally 1350 mm but manhole diameter should be increased for pipes larger than 450 mm diameter to give 225 mm benching in accordance with B5.2.29

Joint to be as close as possible to face of manhole to permit satisfactory joint and subsequent movement

Double step rungs complying with Clause E2.33

Minimum width of benching to be 225 mm

Maximum pipe size 450 mm diameter

See Figure B.13 and Clause E6.6.2 for rocker pipe details

450 mm
minimum from edge of stepping
(See Clause B5.2.29)

For Planning

PLAN

1220 mm x 685 mm multiple ductile iron manhole cover and frame complying with BS EN 124 and BS 7903. See Clause E2.32. Class D400 cover and frame to be 150mm thick.

Mortar bedding and haunching to cover and frame to Clause E6.7

Brickwork or concrete blocks to be corbelled (maximum 30 mm per course) to suit cover

Precast concrete chamber sections complying with Clause E2.29 jointed with mortar, elastomeric or plastomeric seals. Chamber wall to be minimum 125 mm

Benching slope to be 1:10 to 1:30
Inverts to be formed using channel pieces

150 mm minimum

Minimum 20 mm high-strength concrete topping complying with Clause E4.3 and E6.5 neatly shaped and finished to all branch connections

225 mm to barrel of pipe

In-situ GEN3 concrete complying with E4.1 and BRE Special Digest 1

SECTION

Notes:

1. All works are to comply with the Water Authority & Local Authority standard details and specification, as well as the Sewerage Sector Guidance Appendix C - Design and Construction Guidance.
2. The use of precast concrete chamber units to E2.29 with 150mm GEN3 in-situ concrete complying with E4.1 and BRE Special Digest 1 in place of brickwork construction is permitted.
3. Clause references can be found in the Design and Construction Guidance' (DCG).



TRANSPORT PLANNING

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CLIENT:

Greatworth Property

PROJECT:

Bath Road, Warminster

TITLE:

Standard Construction Details
Typical Manhole Detail - Type C
Depth to pipe soffit up to 1.5m

SCALE: (A4)
NTS

CHECKED:
DS

APPROVED:
DS

CAD FILE:
Standard Details.dwg

DESIGN/DRAWN:
ND

DATE:
08/12/25

PROJECT No:
20-058

DRAWING No:
0900505

REV:
P01

Technical cross-section diagram of a manhole assembly, showing the connection between a main pipe and a connecting pipe. The diagram illustrates the following components and specifications:

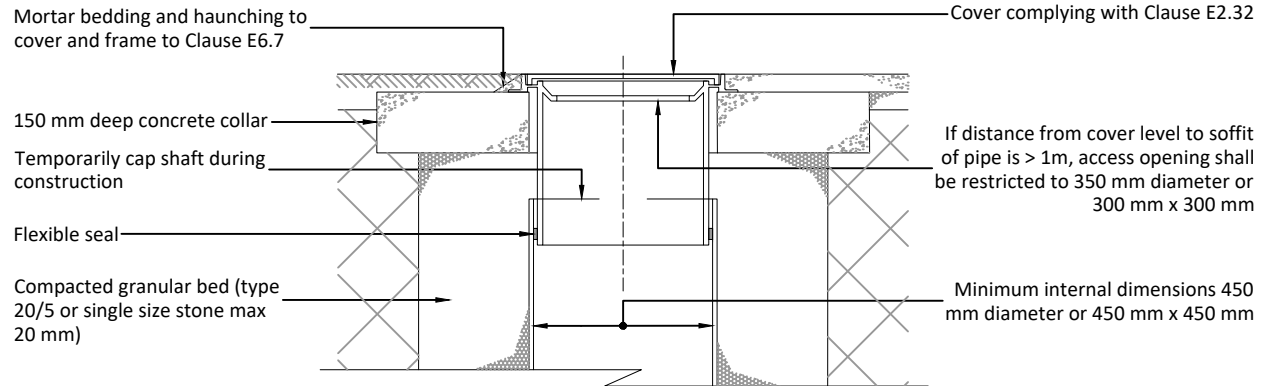
- Top Cover and Frame:**
 - Cover complying with Clause E2.32
 - If distance from cover level to soffit of pipe is $> 1\text{ m}$, access opening shall be restricted to 350 mm diameter or 300 mm x 300 mm
 - Mortar bedding and haunching to cover and frame to Clause E6.7
 - Surface course
 - Binder course
 - Base course
- Sealing and Gaps:**
 - Minimum 50 mm gap between slab and chamber unit
 - Flexible seal (Seal needs to be watertight and provide a suitable specification for the details and material)
- Support and Sealing:**
 - Class B engineering brickwork or precast concrete cover frame seating rings
 - Precast concrete slab or in-situ concrete slab to support cover and frame
- Internal Structure and Bedding:**
 - Granular type I sub-base material to Clause E2.43 (thickness varies)
 - Minimum internal dimensions 450 mm diameter or 450 mm x 450 mm
 - Minimum 150 mm thick granular type I sub-base material to Clause E2.43 or GEN3 in-situ concrete surround complying with E4.1 and BRE Special Digest 1 in accordance with the manufacturer's instruction
 - Base unit to have all connections with soffit levels set no lower than that of the main pipe
 - Granular bedding material
- Connections and Joints:**
 - Temporarily cap shaft during construction
 - Joints between base and shaft and between shaft components to be fitted with watertight seals
 - Joint to be as close as possible to face of chamber to permit satisfactory joint and subsequent movement
 - Invert of connecting pipe at least 50 mm above that of the main pipe

SCALE: (A4) NTS	CHECKED: DS	APPROVED: DS
CAD FILE: Standard Details.dwg	DESIGN/DRAWN: ND	DATE: 08/12/25
PROJECT No: 20-058	DRAWING No: 0900506	REV: P01

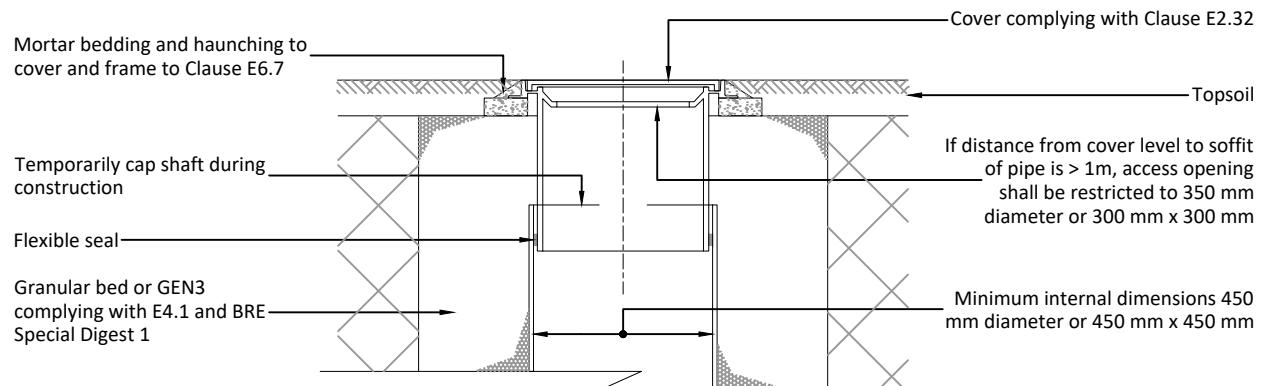
FIGURE B.19
TYPICAL INSPECTION CHAMBER DETAIL - TYPE D
 Flexible material construction alternative top details for use in areas of light
 vehicle loading or landscaped areas

Plastic chambers and rings shall comply with Clause E2.31

Sited in domestic driveways or footways



Sited in domestic gardens



For Planning

Notes:

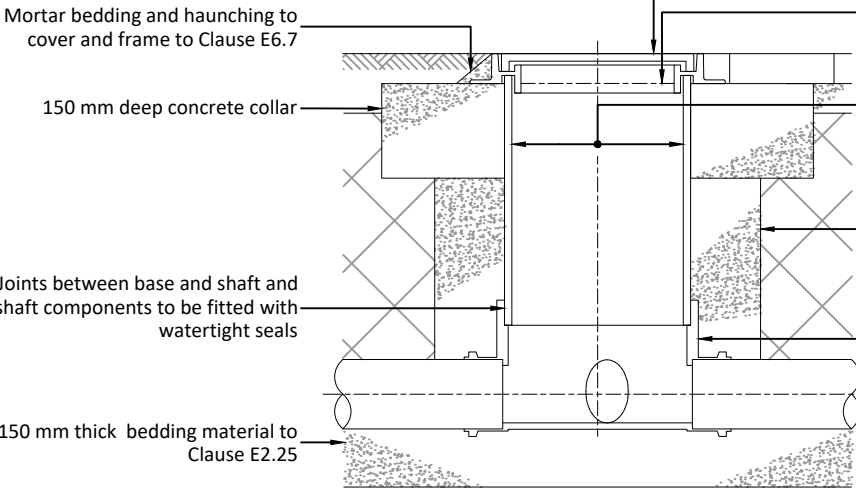
1. All works are to comply with the Water Authority & Local Authority standard details and specification, as well as the Sewerage Sector Guidance Appendix C - Design and Construction Guidance.
2. Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have equivalent independent approval.
3. Clause references can be found in the Design and Construction Guidance' (DCG).
4. Where the access chamber is in the highway (including any footway), the highway authority can have specific requirement.

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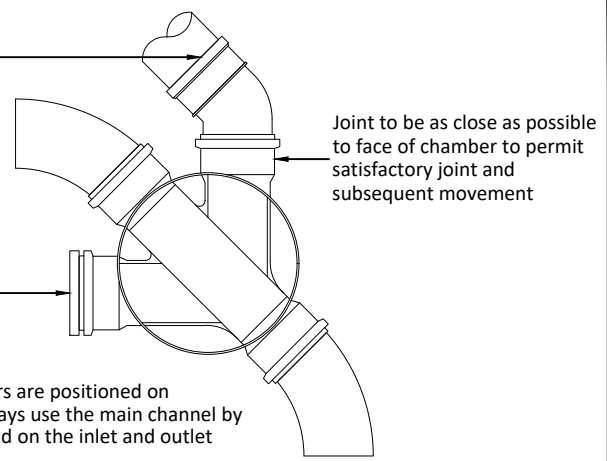
CLIENT: Greatworth Property	TITLE: Standard Construction Details		SCALE: (A4) NTS	CHECKED: DS	APPROVED: DS
	PROJECT: Bath Road, Warminster		Typical Inspection Chamber Detail - Type D		
			CAD FILE: Standard Details.dwg	DESIGN/DRAWN: ND	DATE: 08/12/25
		PROJECT No: 20-058	DRAWING No: 0900507	REV: P01	

Sited in driveways/paved areas



Cover complying with Clause E2.32
If distance from cover level to soffit of pipe is > 1m, access opening shall be restricted to 350 mm diameter or 300 mm x 300 mm
Minimum internal dimensions 180 mm diameter or 225 mm x 100 mm
Minimum 150 mm thick granular type I sub-base material to Clause E2.43 or GEN3 in-situ concrete surround complying with E4.1 and BRE Special Digest 1
Base unit to have all connections with soffit levels set no lower than that of the main pipe

Flexible inlet/outlet and/or bend (maximum angle 45°)



Where chambers are positioned on 90° corners, always use the main channel by fitting a 45° bend on the inlet and outlet

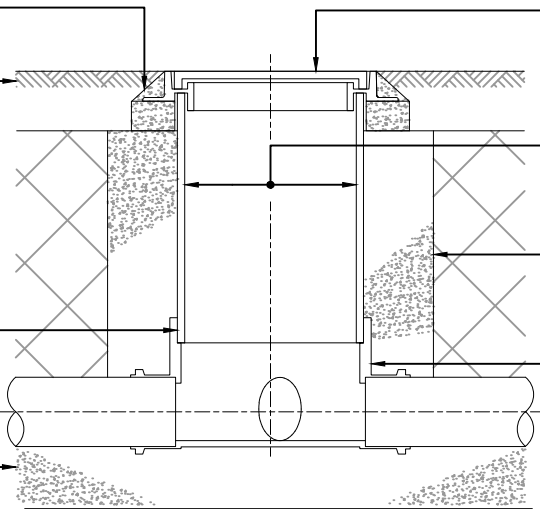
For Planning

Mortar bedding and haunching to cover and frame to Clause E6.7

Topsoil

Joints between base and shaft and shaft components to be fitted with watertight seals

150 mm thick bedding material to Clause E2.25



Cover complying with Clause E2.32

Minimum internal dimensions 180 mm diameter or 225 mm x 100 mm

Minimum 150 mm thick granular type I sub-base material to Clause E2.43 or GEN3 in-situ concrete surround complying with E4.1 and BRE Special Digest 1

Base unit to have all connections with soffit levels set no lower than that of the main pipe

Sited in domestic gardens

- Notes:
- 1. All works are to comply with the Water Authority & Local Authority standard details and specification, as well as the Sewerage Sector Guidance Appendix C - Design and Construction Guidance.
 - 2. Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have equivalent independent approval.
 - 3. Clause references can be found in the Design and Construction Guidance' (DCG).

I

M

A

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MONTREUX HOUSE, 18A JAMES STREET WEST
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CLIENT: Greatworth Property

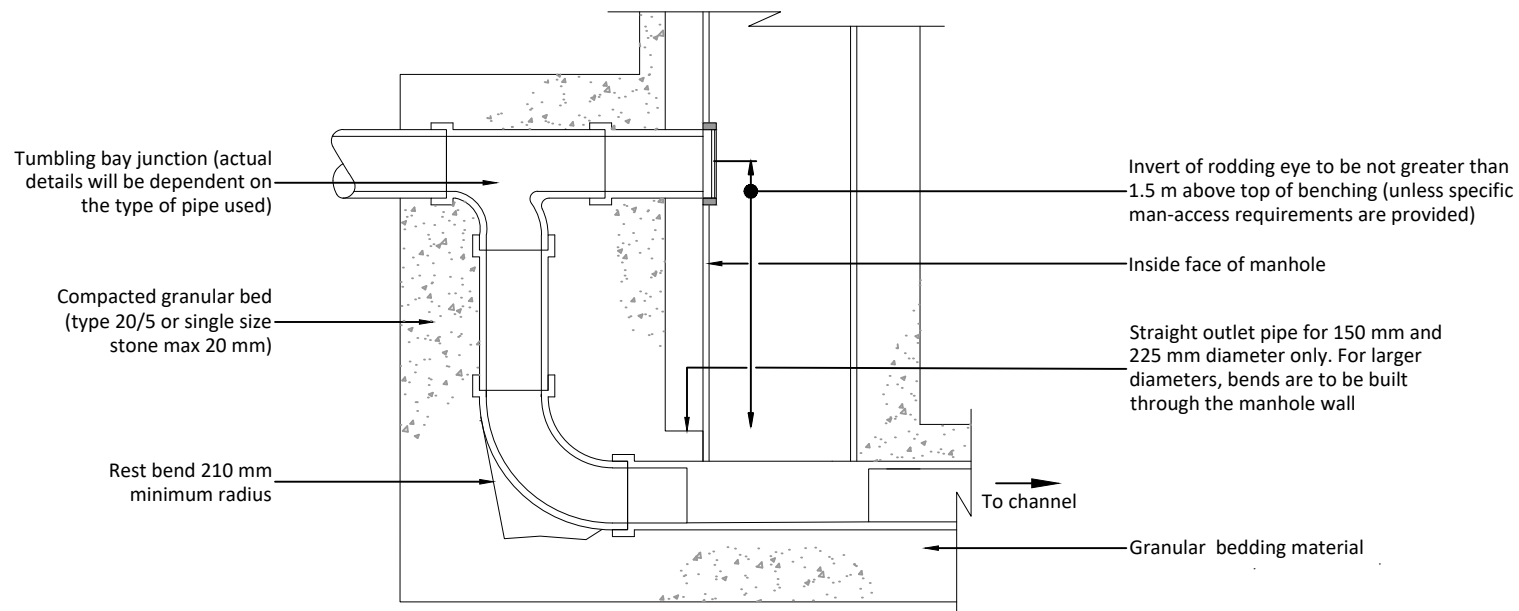
PROJECT: Bath Road, Warminster

TITLE: Standard Construction Details

Typical Inspection Chamber Detail - Type E

Depth to pipe soffit up to 2m

SCALE: (A4) NTS	CHECKED: DS	APPROVED: DS
CAD FILE: Standard Details.dwg	DESIGN/DRAWN: ND	DATE: 08/12/25
PROJECT No: 20-058	DRAWING No: 0900508	REV: P01



External Vertical Backdrop

For Planning

Notes:

1. All works are to comply with the Water Authority & Local Authority standard details and specification, as well as the Sewerage Sector Guidance Appendix C - Design and Construction Guidance.



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CLIENT:

Greatworth Property

PROJECT:

Bath Road, Warminster

TITLE:

Standard Construction Details
Backdrop Detail For Use in Manholes A to D
Flexible Material

SCALE: (A4)
NTS

CHECKED:
DS

APPROVED:
DS

CAD FILE:
Standard Details.dwg

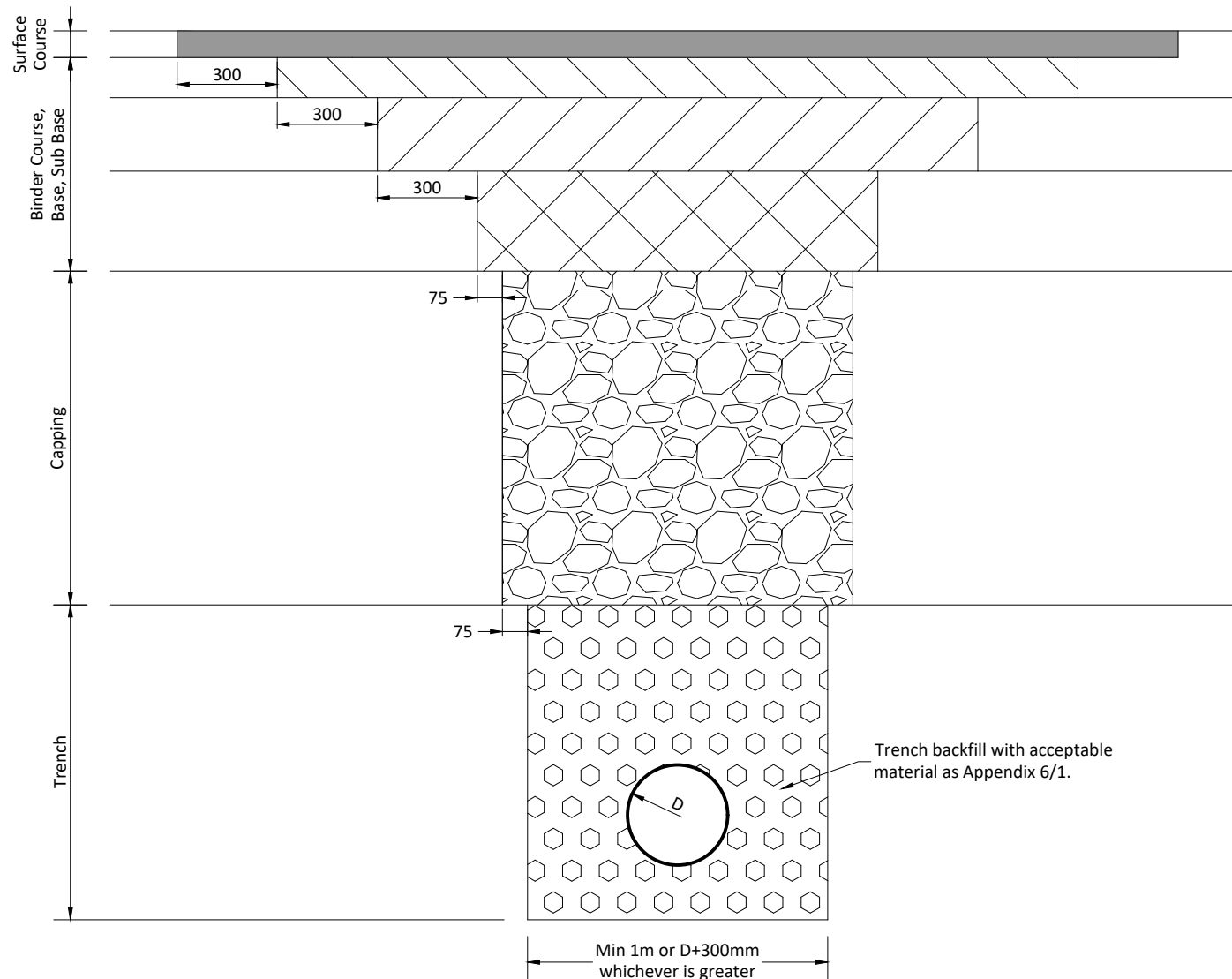
DESIGN/DRAWN:
ND

DATE:
08/12/25

PROJECT No:
20-058

DRAWING No:
0900509

REV:
P01



For Planning

Notes

1. All works are to comply with the Water Authority & local Authority standard details and specification, as well as the Sewerage Sector Guidance Appendix C - Design and Construction Guidance.
2. Reinstatement of the carriageway / footway construction shall be carried out as soon as is practicable after backfilling has been completed.
3. Where the existing carriageway / footway consists of bituminous materials, edges shall be neatly saw cut. Joints through macadam surfacing shall be saw cut and treated in accordance with clause 903 prior to layer reinstatement.
4. Compaction of capping to be in accordance with MCHW 600.
5. Existing block or flag paving shall be carefully reinstated to a minimum of 300 either side of the trench edge and bedded as described in relevant standard detail.
6. All carriageway / footway construction materials to be as specified in the relevant standard detail or by the Engineer.



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CLIENT:

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PROJECT:

Bath Road, Warminster

TITLE:

**Standard Construction Details
Reinstatement of Drain & Duct
In Existing Carriageway**

SCALE: (A4)
NTS

CHECKED:
DS

APPROVED:
DS

CAD FILE:
Standard Details.dwg

DESIGN/DRAWN:
ND

DATE:
08/12/25

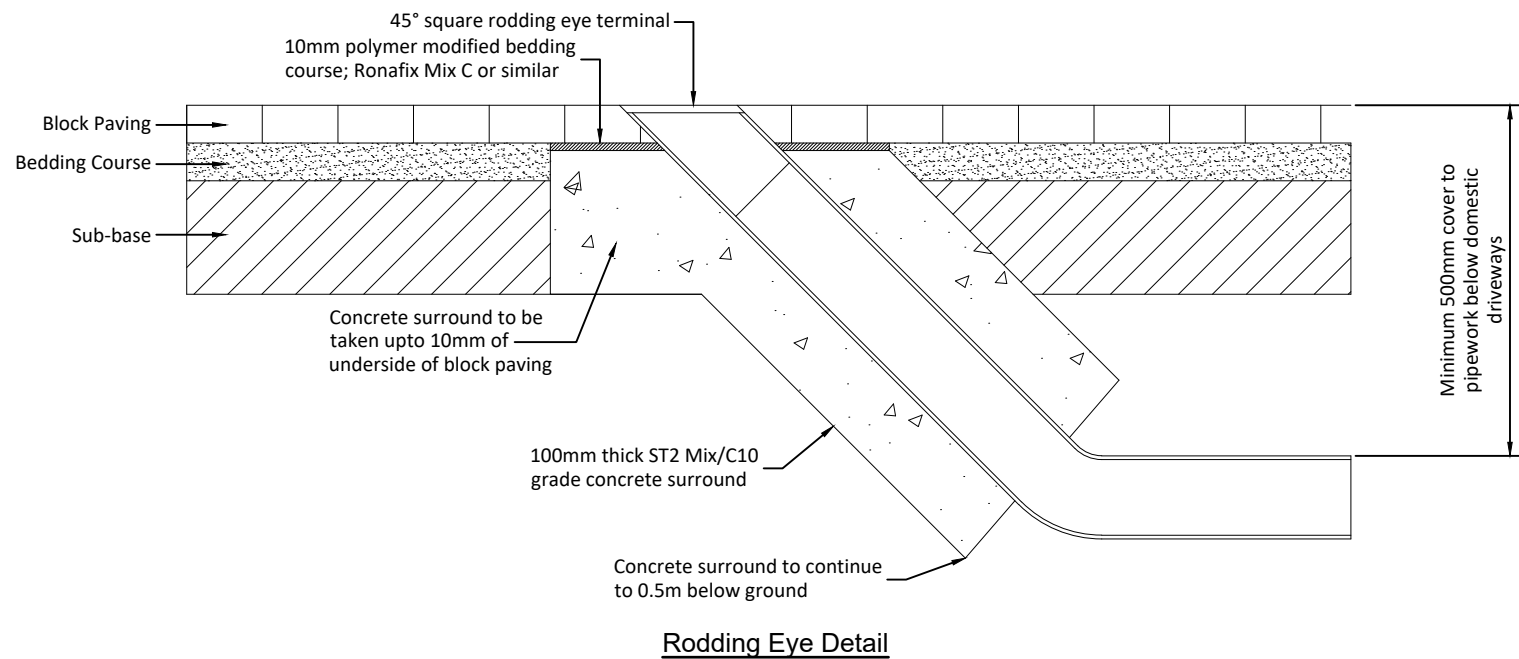
PROJECT No:
20-058

DRAWING No:
0900510

REV:
P01

Notes:

- 1. All works are to comply with the Water Authority & Local Authority standard details and specification, as well as the Sewerage Sector Guidance Appendix C - Design and Construction Guidance.



For Planning



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CLIENT:

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PROJECT:

Bath Road, Warminster

TITLE:

Standard Construction Details

Rodding Eye Detail

SCALE: (A4)
NTS

CHECKED:
DS

APPROVED:
DS

CAD FILE:
Standard Details.dwg

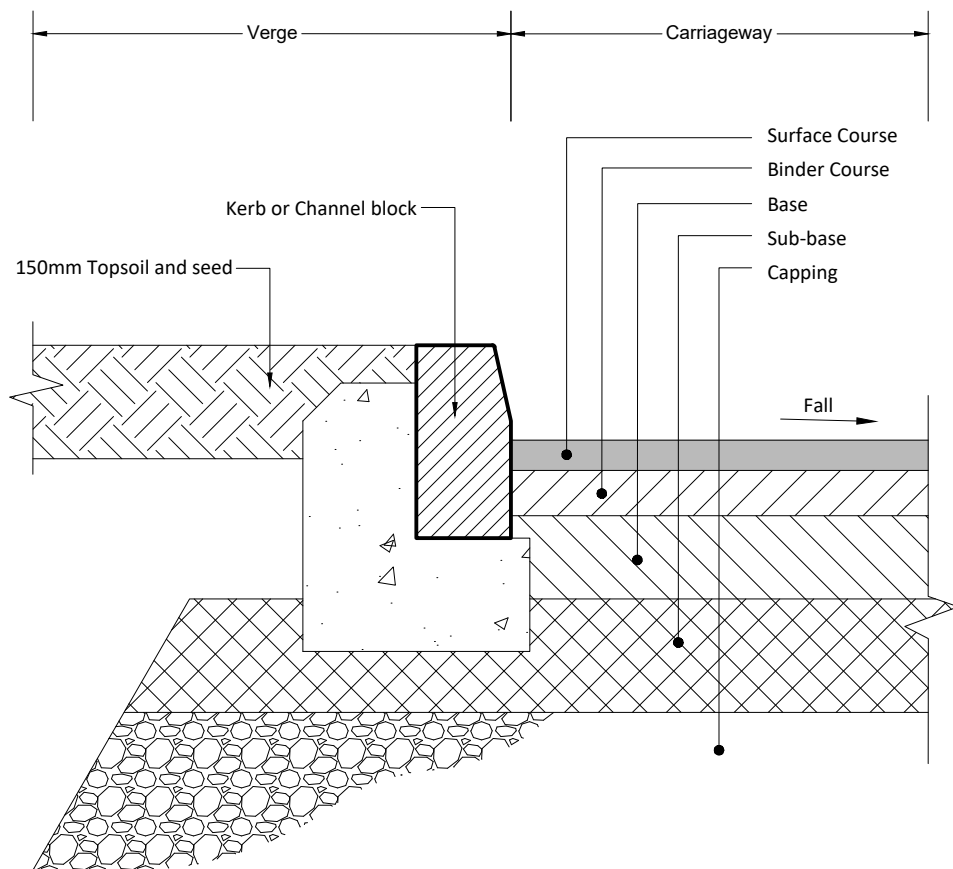
DESIGN/DRAWN:
ND

DATE:
08/12/25

PROJECT No:
20-058

DRAWING No:
0900511

REV:
P01



Type P1 - Full depth carriageway construction

Surface Course: 40mm, **AC10 Close surf 40/60**, minimum 60 PSV, specification clause 912

Binder Course: 60mm, **AC20 dense bin 40/60** (20mm nom. size aggregate; pen50) Specification Clause 929 (min PSV 65 if trafficked)

Base Course: 125mm, **AC32 dense base 40/60**, (32mm nom. size aggregate; pen125) specification clause 929

Sub Base: **Type 1 granular material** to specification clause 803. Thickness dependent on CBR of sub grade (see table below).

Capping: **Capping Material** to Specification clause 613. Thickness dependant on CBR of sub-grade. (See Table below). Top 130mm thick, non frost susceptible capping material, MCDHW Clause 613, class 6F2 or 6F3 or 130mm Granular Type 1 Material, clause 803.

Engineered Fill Material: In the event that levels require additional fill material this is to be brought to the attention of the Engineer. Use of 6F2 or 6F3 material or suitably approved alternative engineered fill material is to be considered.

CBR of Subgrade (%)	<2	2-5	>5
Sub Base (mm)	150	350	225
Capping (mm)	600	250	0

CBRs to be completed before construction and the resulting pavement design confirmed with Wiltshire Council site inspector.

Notes:

- All pavement material within 450mm of finish surface to be non frost susceptible.
- for specification and details of flexible carriageway construction (speed limit 40mph or less) refer to Wiltshire Council's Standard detail drawing WC-HCD-700-D001_A.

For Planning



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CLIENT:

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PROJECT:

Bath Road, Warminster

TITLE:

Standard Construction Details
Pavement Construction Details
Type P1

SCALE: (A4)
NTS

CHECKED:
DS

APPROVED:
DS

CAD FILE:
Standard Details.dwg

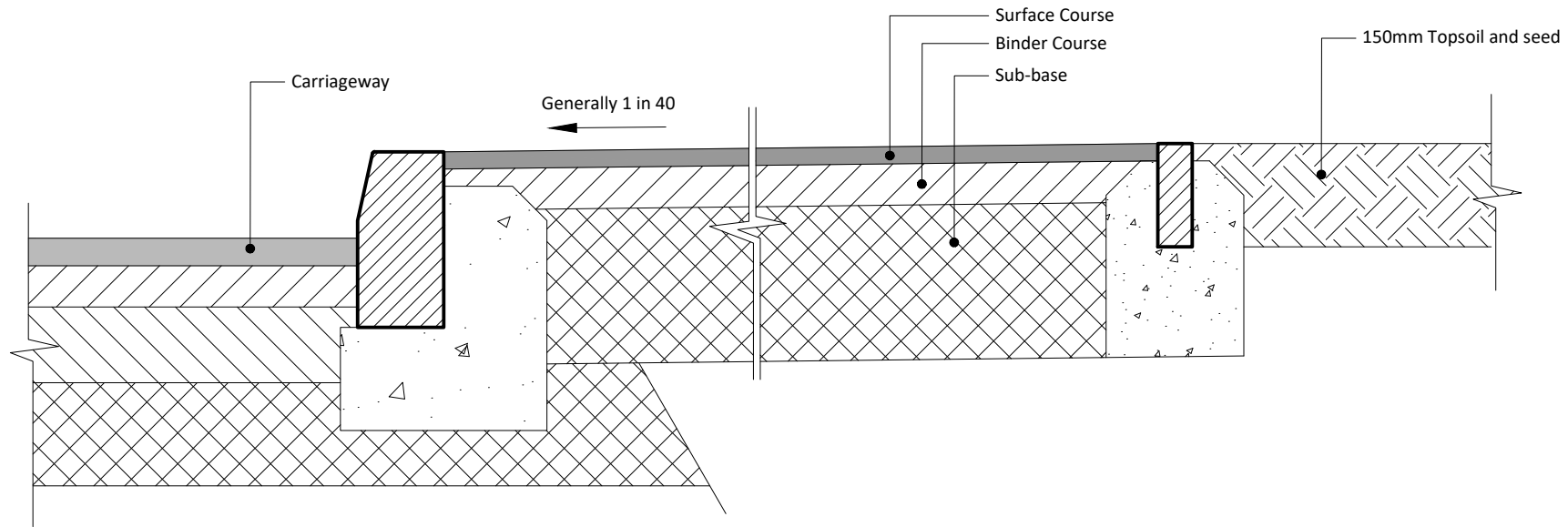
DESIGN/DRAWN:
ND

DATE:
08/12/25

PROJECT No:
20-058

DRAWING No:
0900701

REV:
P01



Type F1: Full depth footway construction

Surface Course: 20mm **AC6 dense surf, 100/150**, PSV 45 (6mm nom. size aggregate) specification clause 912

Binder Course: 60mm, **AC20 dense bin 40/60** (20mm nom. size aggregate; pen50) specification clause 906

Sub Base: 225mm Type 1 granular material specification clause 803

Type F2: Full depth vehicle crossover

Surface Course: 20mm **AC6 dense surf, 100/150**, PSV 45 (6mm nom. size aggregate) specification clause 912

Binder Course: 60mm, **AC20 dense bin 40/60** (20mm nom. size aggregate; pen50) specification clause 906

Sub Base: 225mm Type 1 granular material specification clause 803

For Planning

Notes:

1. Edging & kerb details are to be as specified on engineering plans.
2. When excavating to footway formation, the full depth of existing top soil shall be removed. Any additional depth of excavation resulting from this shall be backfilled with suitable material as per specification.
3. Contractor to check and confirm actual depths of regulating material required prior to works commencing and report to the Engineer for confirmation and records.



TRANSPORT PLANNING

MONTREUX HOUSE, 18A JAMES STREET WEST
BATH BA1 2BT
t: 01225 444 011
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CLIENT:

Greatworth Property

PROJECT:

Bath Road, Warminster

TITLE:

**Standard Construction Details
Pavement Construction Details
Type F1 & F2**

SCALE: (A4)
NTS

CHECKED:
DS

APPROVED:
DS

CAD FILE:
Standard Details.dwg

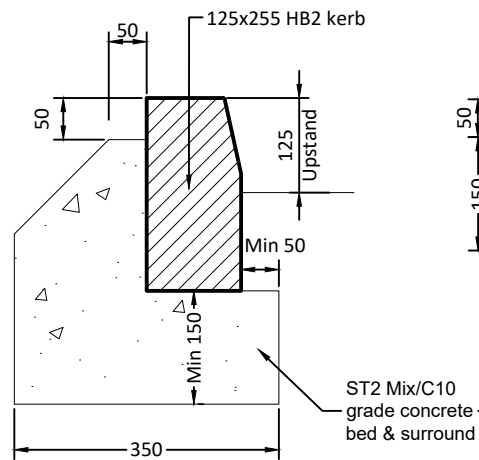
DESIGN/DRAWN:
ND

DATE:
08/12/25

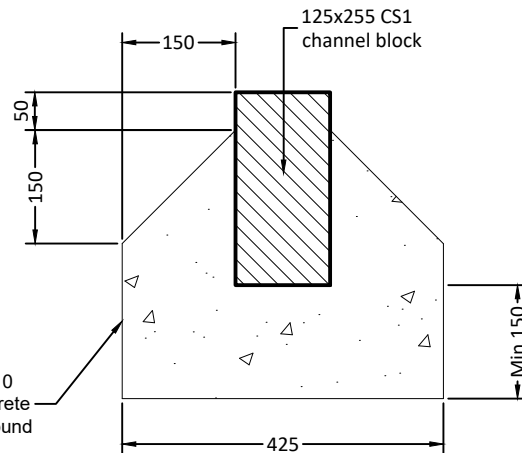
PROJECT No:
20-058

DRAWING No:
0900702

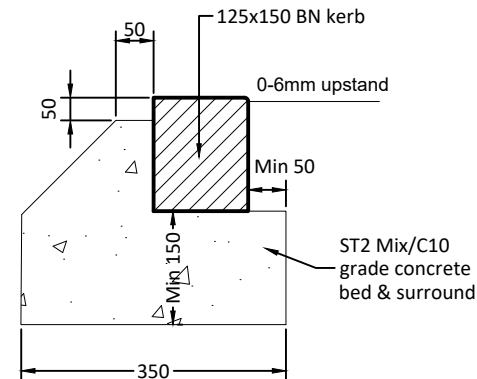
REV:
P01



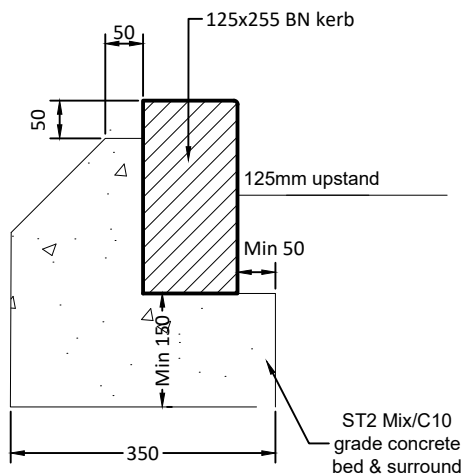
Half Battered Kerb (HB2)



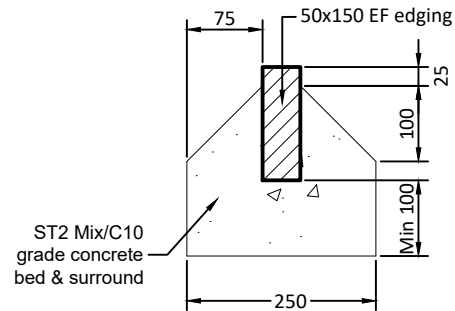
Channel Block (CS)



Pedestrian Drop Kerb (BN)



Vehicle Crossing (BN2)



Edging Block (EF)

For Planning

Notes:

1. All dimensions are in millimeters unless stated otherwise.
2. All kerbs shall be in accordance with BS EN 1340.
3. for specification and details of kerbs refer to Wiltshire Council's Standard detail drawing WC-HCD-1100-D001.



TRANSPORT PLANNING

MONTREUX HOUSE, 18A JAMES STREET WEST
BATH BA1 2BT
t: 01225 444 011
www.ima-tp.com

CLIENT:

Greatworth Property

PROJECT:

Bath Road, Warminster

TITLE:

Standard Construction Details

Kerbs and Edging

SCALE: (A4)

NTS

CHECKED:

DS

APPROVED:

DS

CAD FILE:

Standard Details.dwg

DESIGN/DRAWN:

ND

DATE:

08/12/25

PROJECT No:

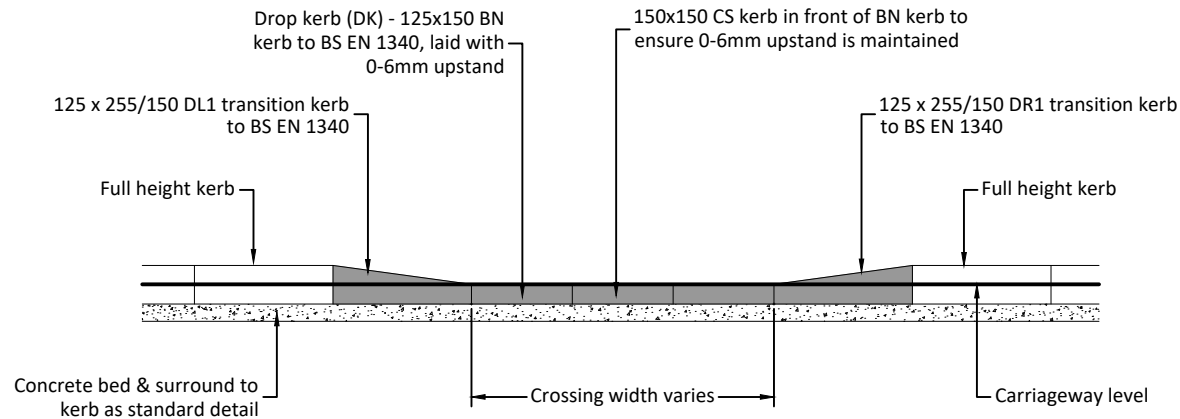
20-058

DRAWING No:

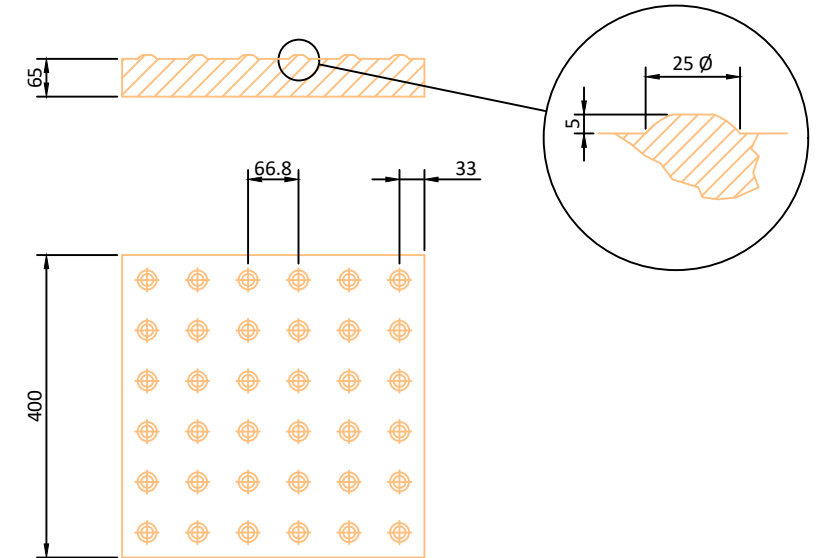
901101

REV:

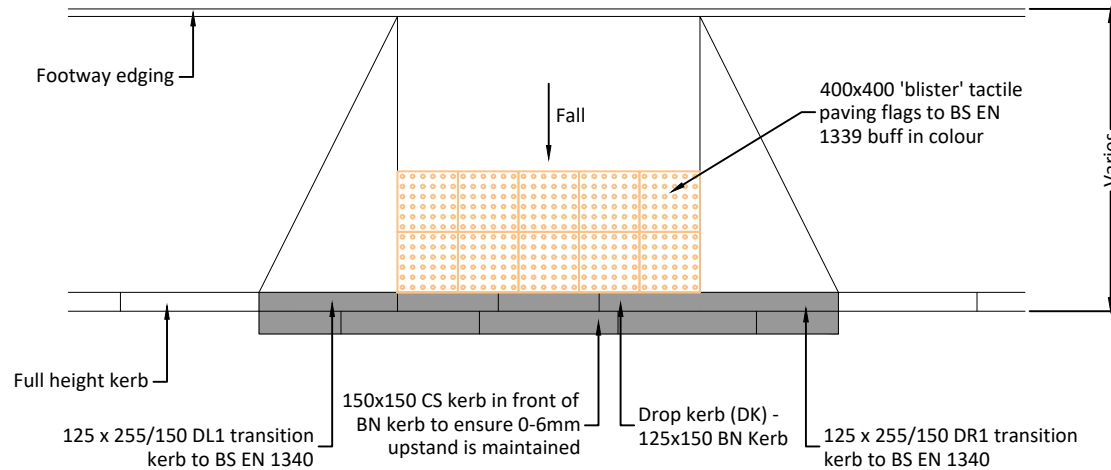
P01



Section
Scale 1:50



Blister Tactile Paving Flag
Scale 1:10

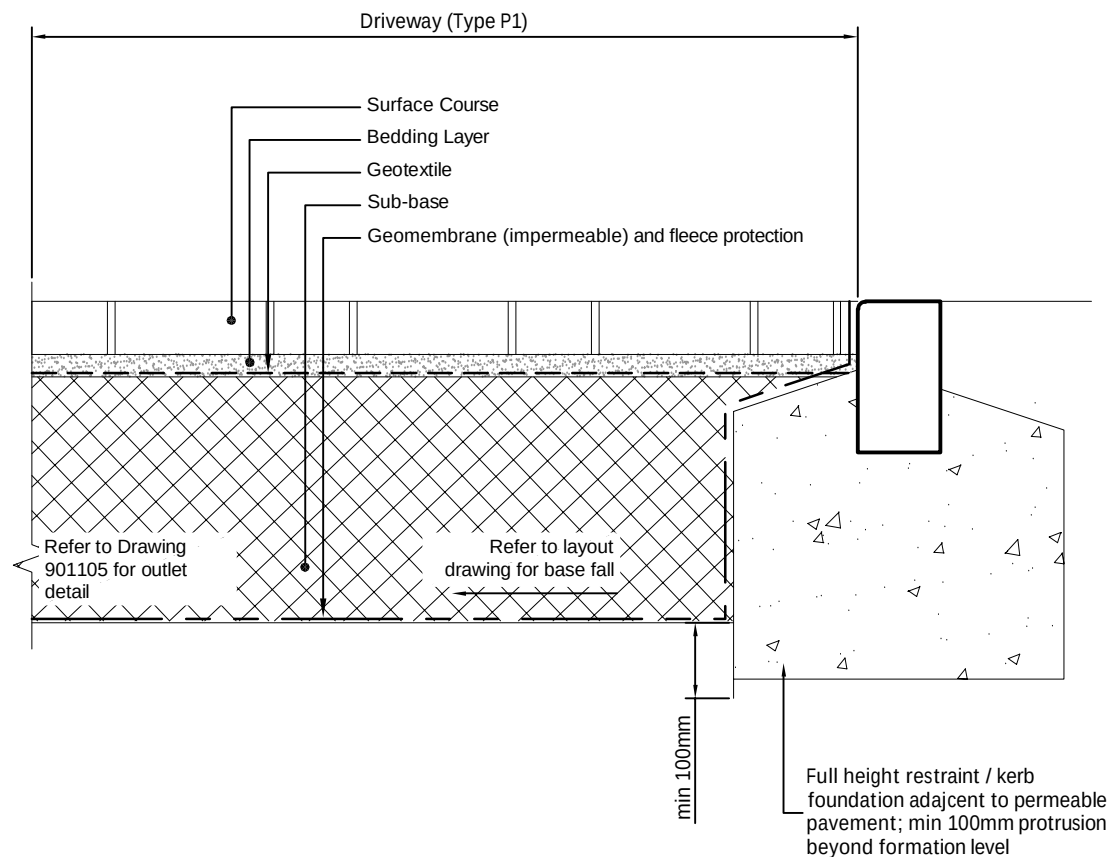


Typical Drop Kerb - Plan
Scale 1:50

For Planning

Notes:

1. All dimensions are in millimeters unless stated otherwise.



Type P1 - Full Depth Permeable Driveway Construction (Assumed 5% CBR)

Surface Course: 60mm thick permeable block paving; Colour as per Landscape Architect specification

Bedding Course: 50mm thick - 2-6mm, Clean Crushed Stone

Geotextile: Terram Inbitex

Sub Base: Thickness varies - refer to Drawing 500, Type 3 Granular Material to specification clause 805.

Geomembrane: Permavoid geomembrane by Polypipe (or simialar approved), fully sealed / welded joints and drainage outlets;

For Planning



TRANSPORT PLANNING

MONTREUX HOUSE, 18A JAMES STREET WEST
BATH BA1 2BT
t: 01225 444 011
www.ima-tp.com

CLIENT:

Greatworth Property

PROJECT:

Bath Road, Warminster

TITLE:

Standard Construction Details
Permeable Driveway Construction

SCALE: (A4)
NTS

CHECKED:
DS

APPROVED:
DS

CAD FILE:
Standard Details.dwg

DESIGN/DRAWN:
ND

DATE:
08/12/25

PROJECT No:
20-058

DRAWING No:
901104

REV:
P01

Turtle Oriflow - Orifice Control Chamber OFCC500 with protected plate or similar approved with B125 cover and frame

Chamber to be installed in line with manufacturers recommendations

SILTBLOK

150mmØ uPVC outlet pipework.

150mmØ uPVC incoming pipework from permeable paving.

Pipework set level with base of sub-base

Build up as specified

Geotextile
Impermeable membrane with geotextile on sub-base and side

SC Fin drain or similar approved. 300mm deep, length as indicated on layout

Top hat seal arrangement to ensure watertight seal around connection

For Planning

Notes:

1. All works designed in accordance with and to be constructed in accordance with the 'Design and Construction Guidance' (DCG), formerly known as 'Sewers for Adoption'.



TRANSPORT PLANNING

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BATH BA1 2BT
t: 01225 444 011
www.ima-tp.com

CLIENT:

Greatworth Property

PROJECT:

Bath Road, Warminster

TITLE:

Standard Construction Details
Permeable Paving Outlet
& Control Chamber Detail

SCALE: (A4)
NTS

CHECKED:
DS

APPROVED:
DS

CAD FILE:
Standard Details.dwg

DESIGN/DRAWN:
ND

DATE:
26/06/25

PROJECT No:
20-058

DRAWING No:
901105

REV: