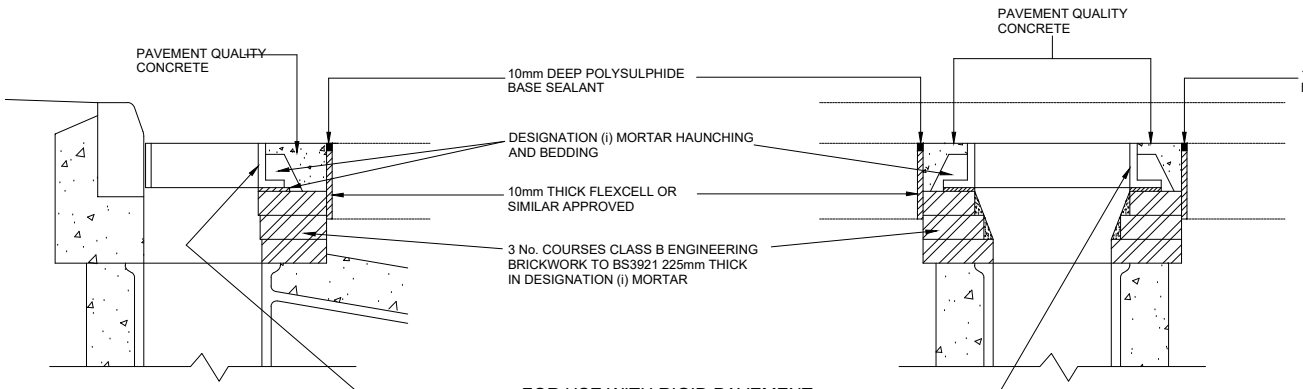


FOR USE WITH RIGID PAVEMENT

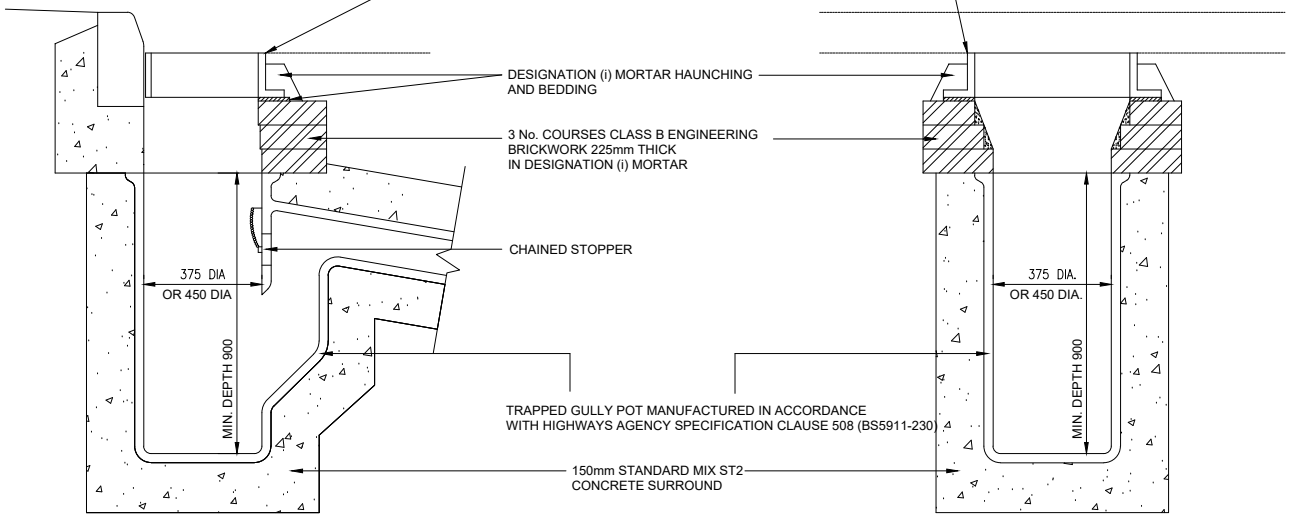
NOTE

FOR CONTRACTS NOT UNDER THE HIGHWAYS AGENCY SPECIFICATION FOR HIGHWAY WORKS, REFERENCES SHALL BE READ AS:-

ST2 CM

DESIGNATION (i) = 1 : 0-1/4 : 3 (Cement : Lime : Sand)

FOR MORTAR DESIGNATION - REFER SERIES SHW 2400, TABLE 24/1.



FOR USE WITH FLEXIBLE PAVEMENT

Kirklees COUNCIL

Commercial Regulatory and Operational Service
Highway Design
Flint Street, Fartown
Huddersfield, HD1 6LG

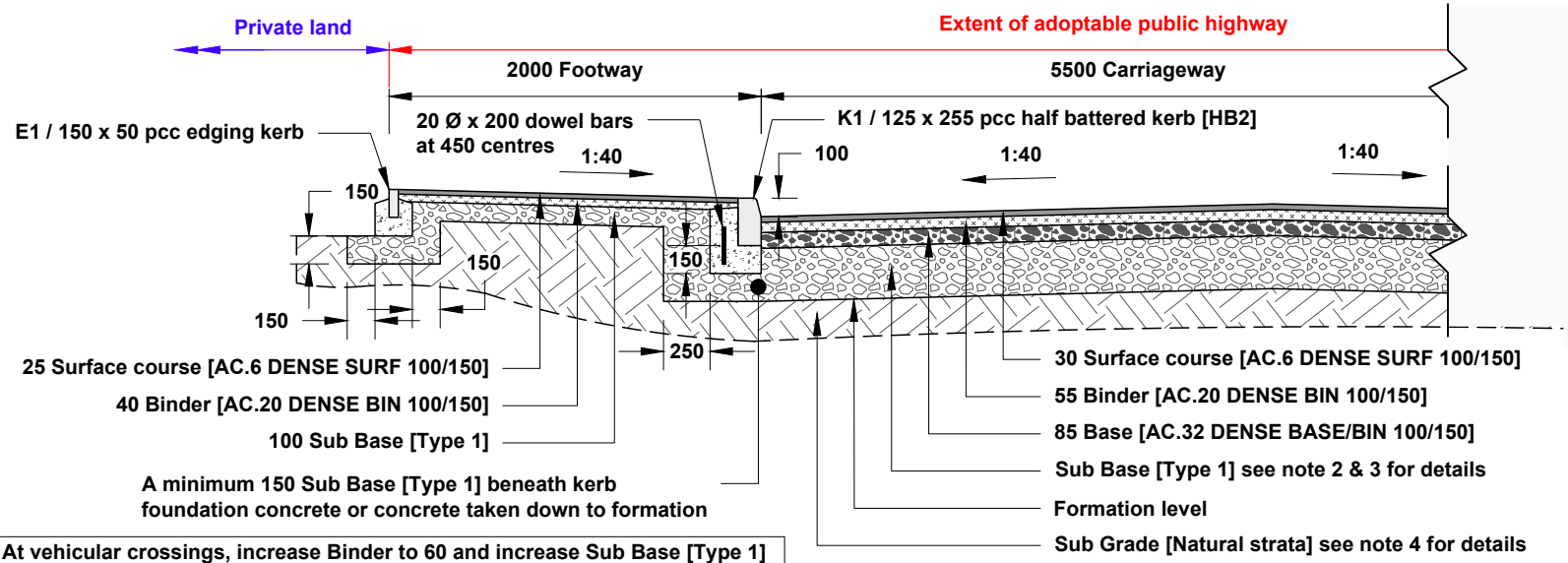
Project

STANDARD DETAILS

Title

GULLIES PERMITTED DESIGN GROUP 1

Scale: NOT TO SCALE	
Drawn: AKKV	Checked:
Section: HD	Date: JAN 22
Drawing No. HD/SD/05/20B	



At vehicular crossings, increase Binder to 60 and increase Sub Base [Type 1] to 150 with kerb K15 / 125 x 150 pcc bullnosed kerb [BN3] with 30 upstand

PAVEMENT FOUNDATION DESIGN LOCAL RESIDENTIAL STREET / TRADITIONAL ESTATE ROAD [TYPE B]							
CBR %		< 2.5	2.5 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 15.0	>15.0
SUB BASE ONLY	SUB BASE [TYPE 1] DEPTH	Ground remediation required to improve sub grade CBR	450	420	370	330	280*
OR			OR				
SUB BASE ON CAPPING	SUB BASE [TYPE 1] DEPTH		350	320	280*	280*	280*
	CAPPING DEPTH		250	240	230	210	150
* Minimum required type 1 sub base depth to achieve 450mm of non-frost susceptible material.							

1. Unless stated otherwise all dimensions are in millimetres.
2. For pavement foundation design, there are two options:
   (i) Sub Base only
   (ii) Sub Base and Capping
   (iii) See adjacent pavement design table for layer thickness.
3. For pavement foundation design the total pavement construction buildup from final design surface to the foundation, is to be 450mm in depth, such that the materials shall not be frost susceptible in accordance with [MCHW Vol 1 Series 801 Clause 7].
4. All made ground to be removed to a depth of 3m.
5. All kerbs to be laid upon 10mm mortar bed.
6. All K1 kerbs require dowel bars.
7. For kerb details refer to Kirklees Standard Details Drawing No. HD / SD / 11 /01A,02A,03A,04A,05A.

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Commercial Regulatory and Operational Service
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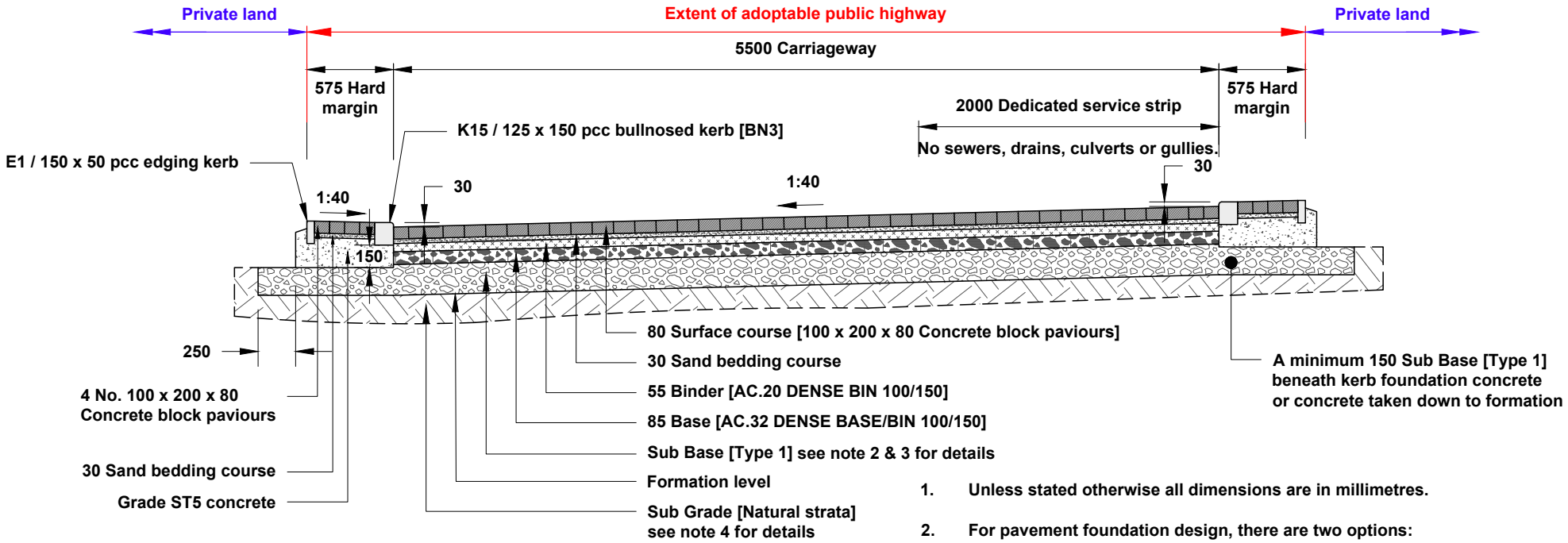
Flint Street, Fartown
Huddersfield, HD1 6LG

Project: STANDARD DETAILS

Title: LOCAL RESIDENTIAL STREET / TRADITIONAL ESTATE ROAD [TYPE B] WITH FOOTWAY

Scale		
1:40		
Drawn: MWN	Checked: JMH	
Section: HD	Date: MAY 2022	
Drawing No.: HD–SD–07–12A		



PAVEMENT FOUNDATION DESIGN SHARED SURFACE STREET [TYPE C] / MEWS COURT (BLOCK PAVED)							
CBR %		< 2.5	2.5 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 15.0	>15.0
SUB BASE ONLY	SUB BASE [TYPE 1] DEPTH	Ground remediation required to improve sub grade CBR	450	420	370	330	200*
OR			OR				
SUB BASE ON CAPPING	SUB BASE [TYPE 1] DEPTH		350	320	270	240	200*
	CAPPING DEPTH		250	240	230	210	150
* Minimum required type 1 sub base depth to achieve 450mm of non-frost susceptible material.							

1. Unless stated otherwise all dimensions are in millimetres.

2. For pavement foundation design, there are two options:
(i) Sub Base only
(ii) Sub Base and Capping
(iii) See adjacent pavement design table for layer thickness.

3. For pavement foundation design the total pavement construction buildup from final design surface to the foundation, is to be 450mm in depth, such that the materials shall not be frost susceptible in accordance with [MCHW Vol 1 Series 801 Clause 7].

4. All made ground to be removed to a depth of 3m.

5. All kerbs to be laid upon 10mm mortar bed.

6. All K1 kerbs require dowel bars.

7. For kerb details refer to Kirklees Standard Details Drawing No. HD / SD / 11 /01A,02A,03A,04A,05A.

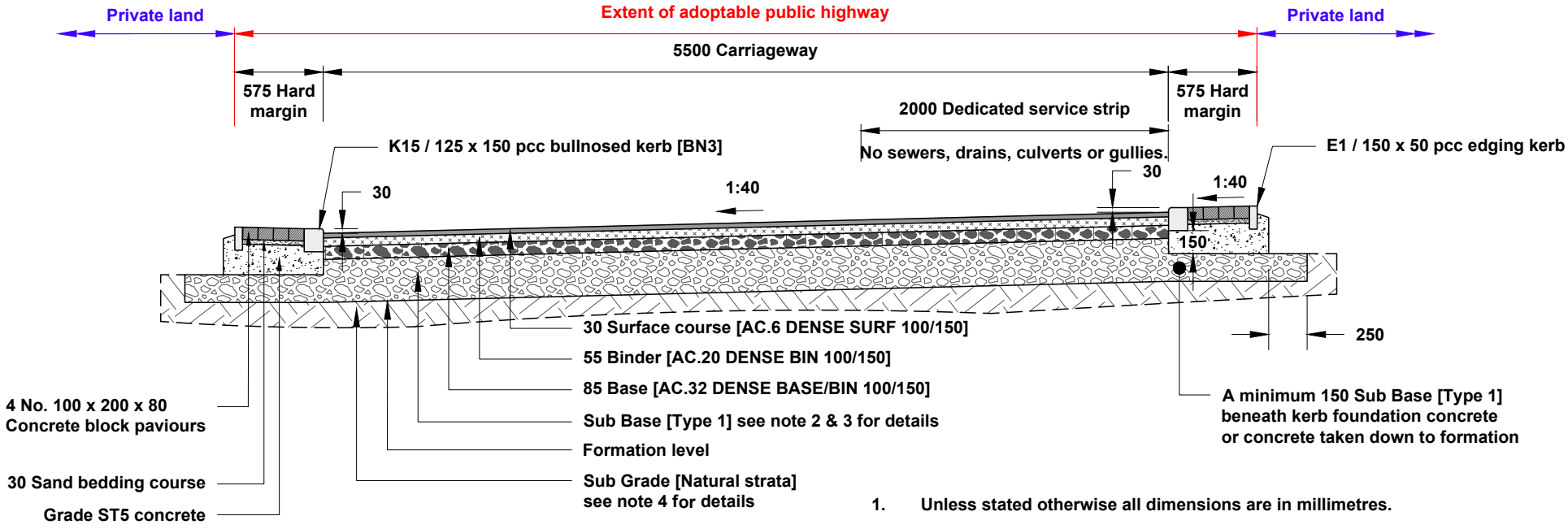
Kirklees COUNCIL

Commercial Regulatory and Operational Service
Highway Design
Flint Street, Fartown
Huddersfield, HD1 6LG

Project
STANDARD DETAILS

Title
SHARED SURFACE STREET [TYPE C] / MEWS COURT (BLOCK PAVED)

Scale	1:40
Drawn	MWN
Checked	JMH
Section	HD
Date	MAY 2022
Drawing No.	HD–SD–07–13A



PAVEMENT FOUNDATION DESIGN SHARED SURFACE STREET [TYPE C] / MEWS COURT (ASPHALT PAVED)							
CBR %		< 2.5	2.5 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 15.0	>15.0
SUB BASE ONLY	SUB BASE [TYPE 1] DEPTH	Ground remediation required to improve sub grade CBR	450	420	370	330	280*
OR			OR				
SUB BASE ON CAPPING	SUB BASE [TYPE 1] DEPTH		350	320	280*	280*	280*
	CAPPING DEPTH		250	240	230	210	150
* Minimum required type 1 sub base depth to achieve 450mm of non-frost susceptible material.							

1. Unless stated otherwise all dimensions are in millimetres.
2. For pavement foundation design, there are two options:
   (i) Sub Base only
   (ii) Sub Base and Capping
   (iii) See adjacent pavement design table for layer thickness.
3. For pavement foundation design the total pavement construction buildup from final design surface to the foundation, is to be 450mm in depth, such that the materials shall not be frost susceptible in accordance with [MCHW Vol 1 Series 801 Clause 7].
4. All made ground to be removed to a depth of 3m.
5. All kerbs to be laid upon 10mm mortar bed.
6. All K1 kerbs require dowel bars.
7. For kerb details refer to Kirklees Standard Details Drawing No. HD / SD / 11 /01A,02A,03A,04A,05A.

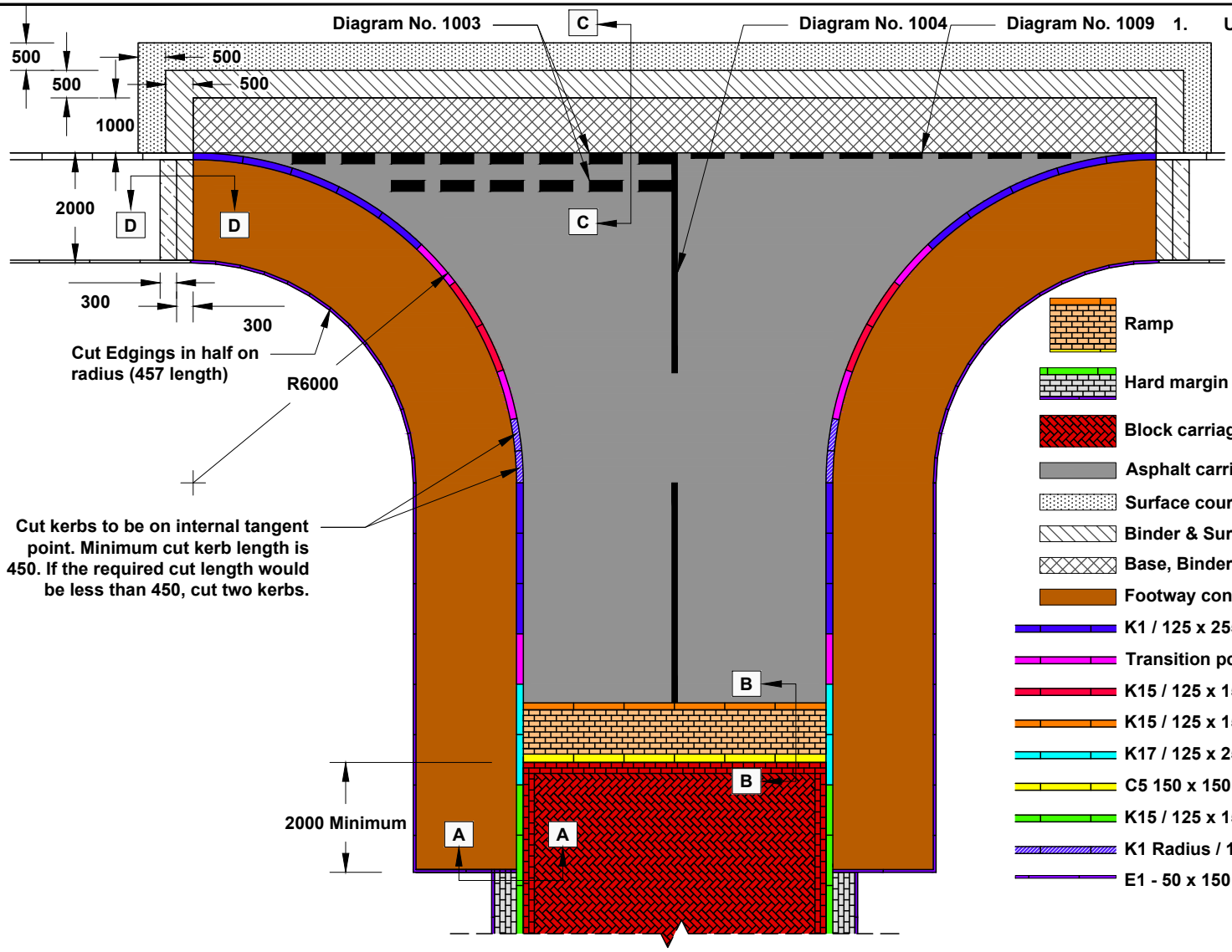
Kirklees COUNCIL

Commercial Regulatory and Operational Service
Highway Design
Flint Street, Fartown
Huddersfield, HD1 6LG

Project: STANDARD DETAILS

Title: SHARED SURFACE STREET [TYPE C] / MEWS COURT (ASPHALT PAVED)

Scale	
1:40	
Drawn: MWN	Checked: JMH
Section: HD	Date: MAY 2022
Drawing No.: HD–SD–07–14A	



Unless stated otherwise all dimensions are in millimetres.

THE TIE-IN DETAIL SHOWN IS A PROPOSED TRADITIONAL ESTATE ROAD TIE-IN TO AN EXISTING TRADITIONAL ESTATE ROAD

FOR ANY OTHER CATEGORY OF ROAD, A BESPOKE TIE-IN DETAIL IS REQUIRED

For cross section details refer to drawings: HD-SD-70-16A/17A/18A/19A

- Ramp
- Hard margin
- Block carriageway construction
- Asphalt carriageway construction
- Surface course tie-in
- Binder & Surface course tie-in
- Base, Binder & Surface course tie-in
- Footway construction
- K1 / 125 x 255 pcc half battered kerb [HB2 100 upstand]
- Transition pcc kerb
- K15 / 125 x 150 pcc bullnosed kerb [BN3 set flush 0 to 6]
- K15 / 125 x 150 pcc bullnosed kerb [BN3 100 upstand]
- K17 / 125 x 255 pcc bullnosed kerb [BN2 upstand varies across ramp
- C5 150 x 150 pcc channel block [set flush]
- K15 / 125 x 150 pcc bullnosed kerb [BN3] with 30 upstand
- K1 Radius / 125 x 255 pcc half battered kerb [HB2 100upstand]
- E1 - 50 x 150 pcc edging kerb [set flush]

Kirklees COUNCIL

Commercial Regulatory and Operational Service
Highway Design
Flint Street, Fartown
Huddersfield, HD1 6LG

Project

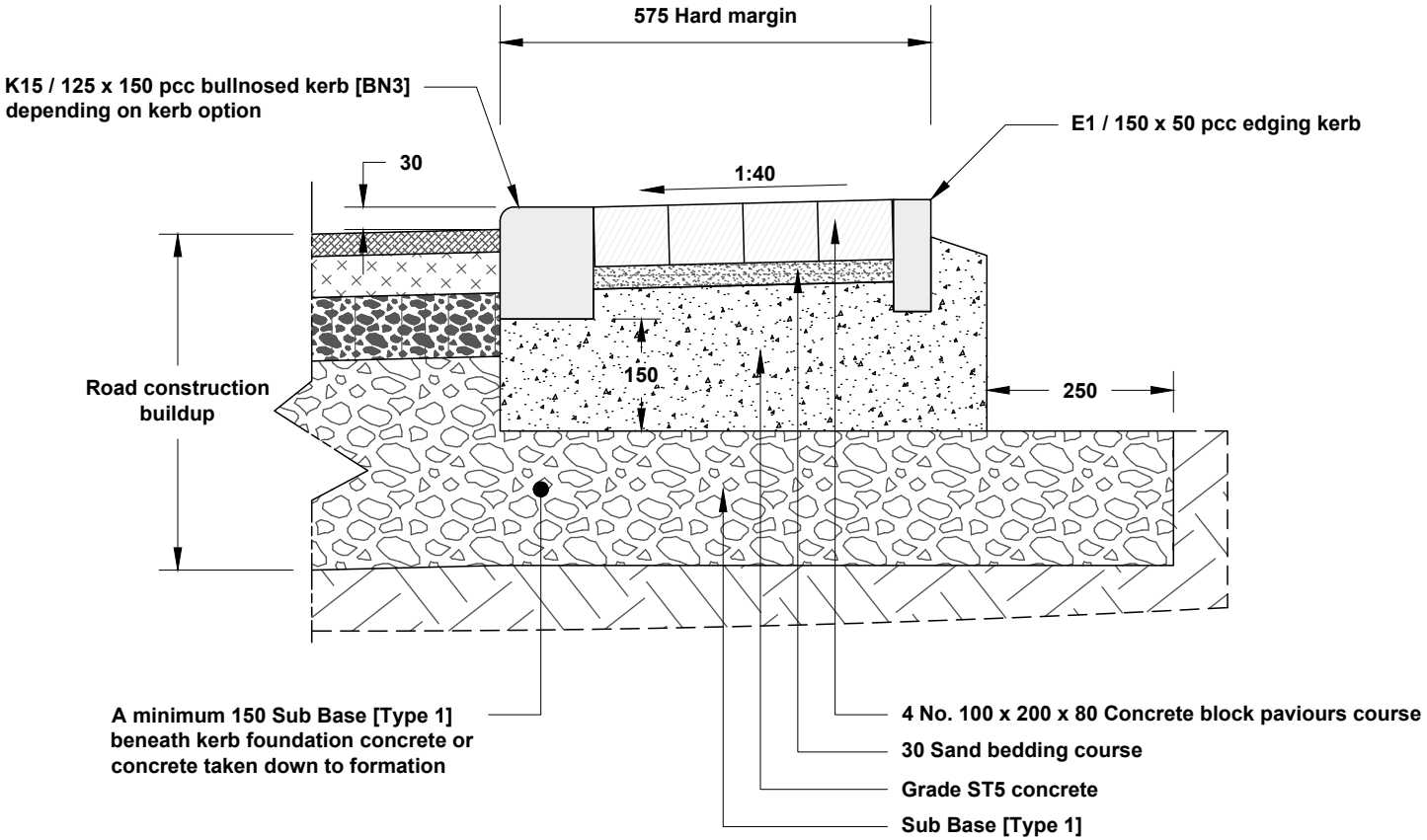
STANDARD DETAILS

Title

JUNCTION / PAVEMENT AND KERB LAYOUT WITH TIE-IN PLAN DETAIL

Scale	NOT TO SCALE
Drawn	MWN
Checked	JMH
Section	HD
Date	MAY 2022
Drawing No.	HD–SD–07–15A

1. Unless stated otherwise all dimensions are in millimetres



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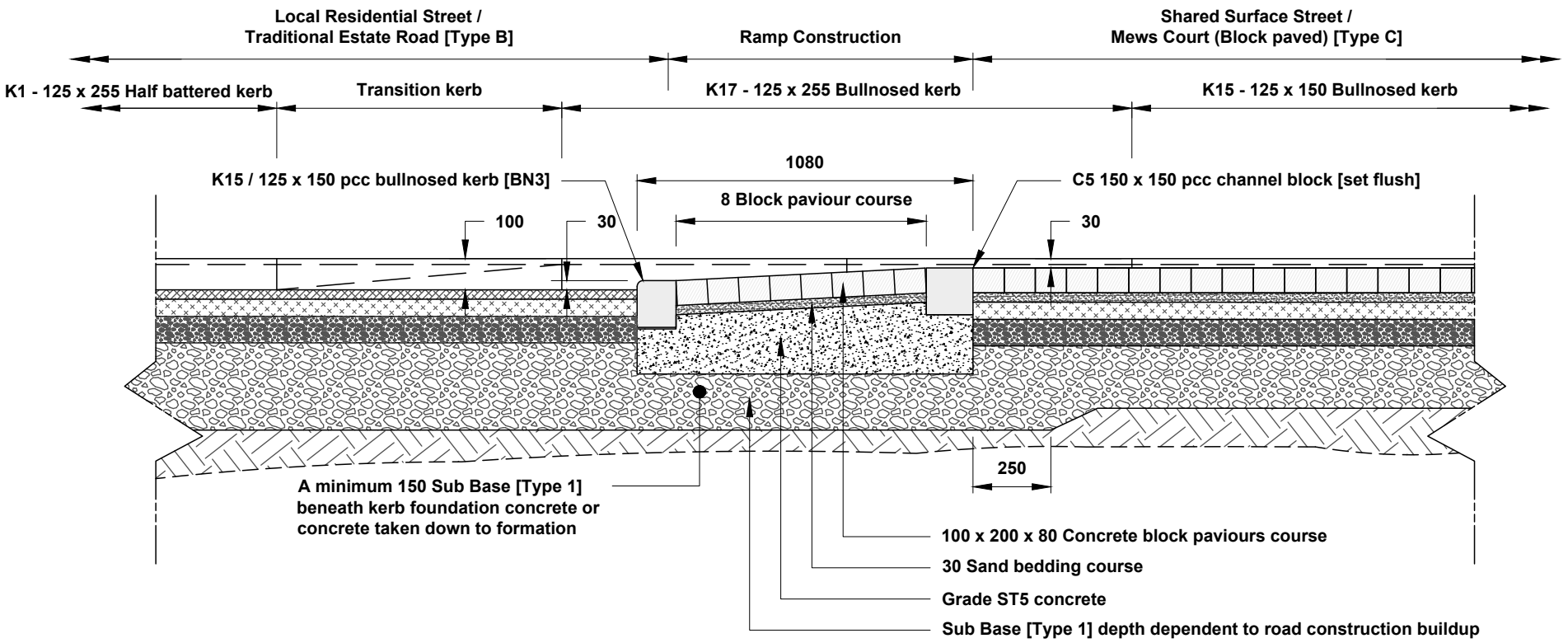
Commercial Regulatory and Operational Service
Highway Design
Flint Street, Fartown
Huddersfield, HD1 6LG

Project
STANDARD DETAILS

Title
HARD MARGIN DETAIL CROSS SECTION A - A

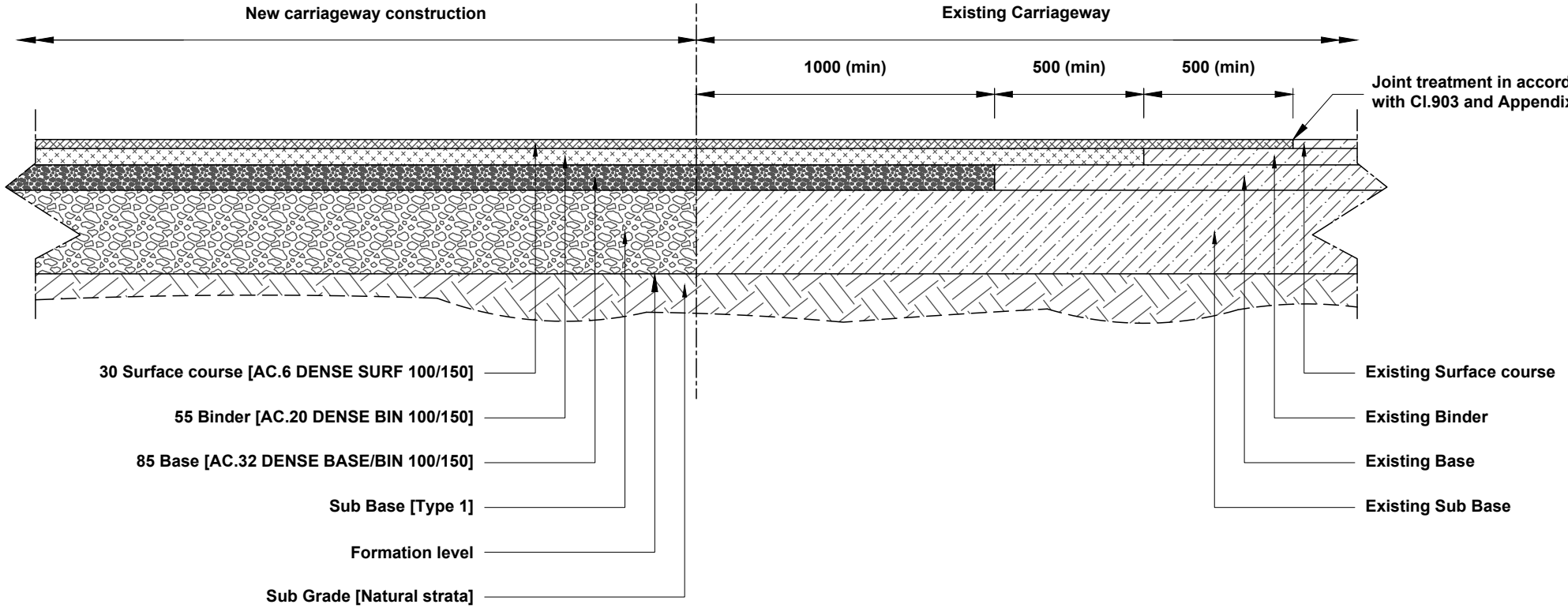
Scale	1:10
Drawn	MWN
Checked	JMH
Section	HD
Date	MAY 2022
Drawing No.	HD–SD–07–16A

1. Unless stated otherwise all dimensions are in millimetres.



Kirklees COUNCIL	Project: STANDARD DETAILS	Scale: 1:20	
		Drawn: MWN	Checked: JMH
Commercial Regulatory and Operational Service Highway Design Flint Street, Fartown Huddersfield, HD1 6LG	Title: RAMP DETAIL CROSS SECTION B - B	Section: HD	Date: MAY 2022
		Drawing No.	HD–SD–07–17A

1. Unless stated otherwise all dimensions are in millimetres.



THIS DETAIL SHOWS NEW TO NEW & NEW TO EXISTING, TRADITIONAL ESTATE ROAD TO AN EXISTING TRADITIONAL ESTATE ROAD TIE-IN DETAILS

FOR ANY OTHER CATEGORY OF ROAD, A BESPOKE TIE-IN DETAIL IS REQUIRED

Kirklees COUNCIL

Commercial Regulatory and Operational Service
Highway Design
Flint Street, Fartown
Huddersfield, HD1 6LG

Project

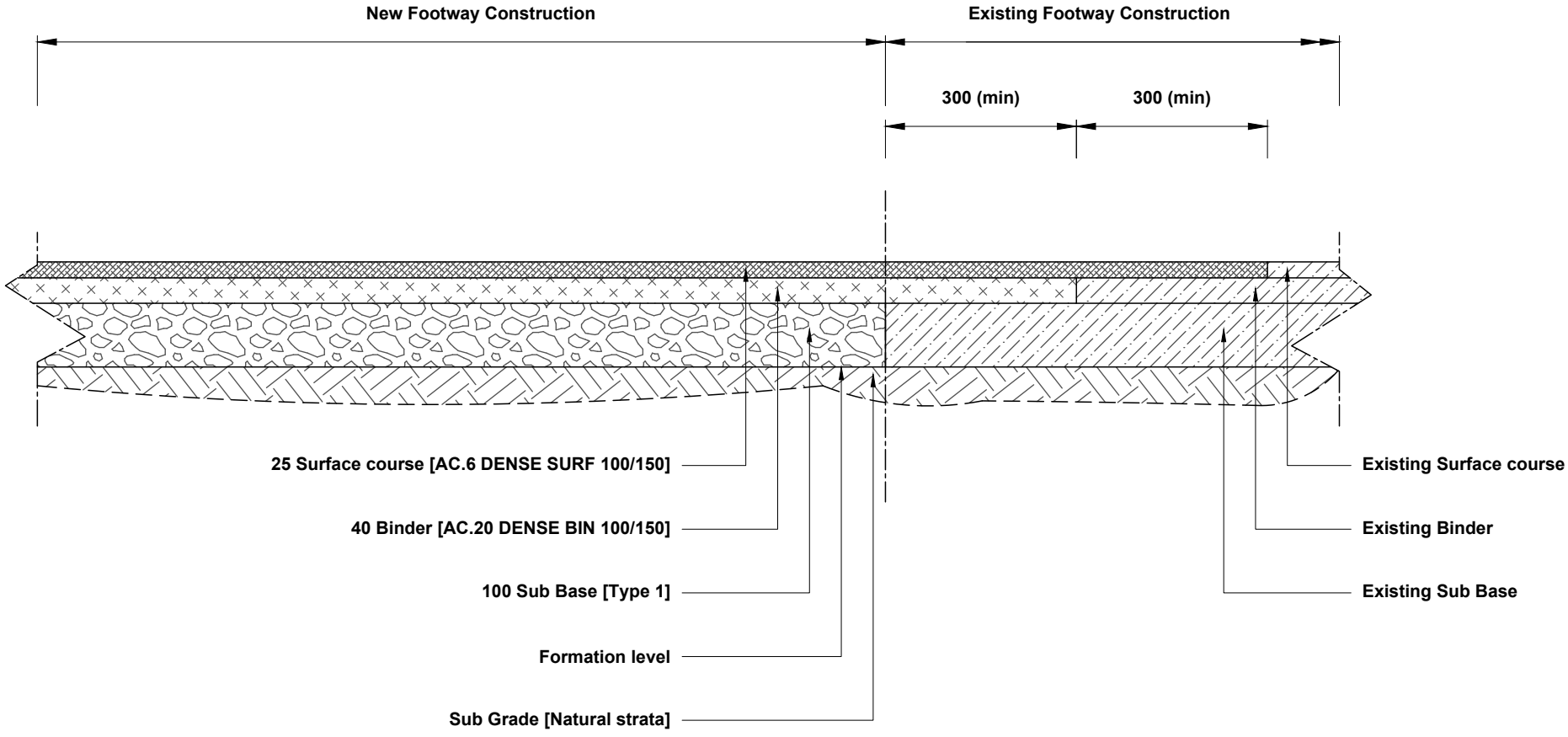
STANDARD DETAILS

Title

CARRIAGEWAY TIE-IN SECTION C-C

Scale	
1:20	
Drawn: MWN	Checked: JMH
Section: HD	Date: MAY 2022
Drawing No.: HD–SD–07–18A	

1. Unless stated otherwise all dimensions are in millimetres.



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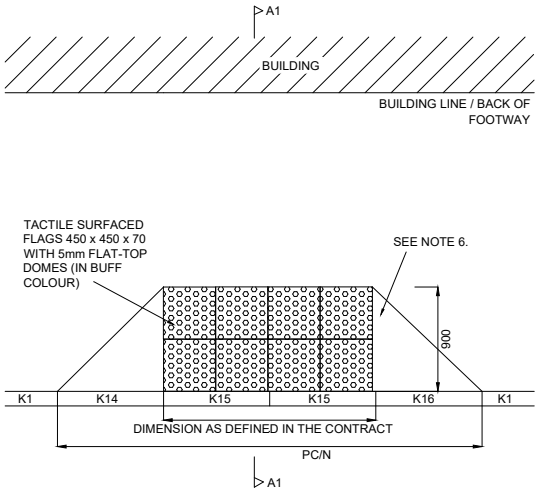
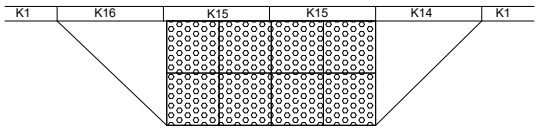
Commercial Regulatory and Operational Service
Highway Design
Flint Street, Fartown
Huddersfield, HD1 6LG

Project
STANDARD DETAILS

Title
FOOTWAY TIE-IN DETAIL
SECTION D - D

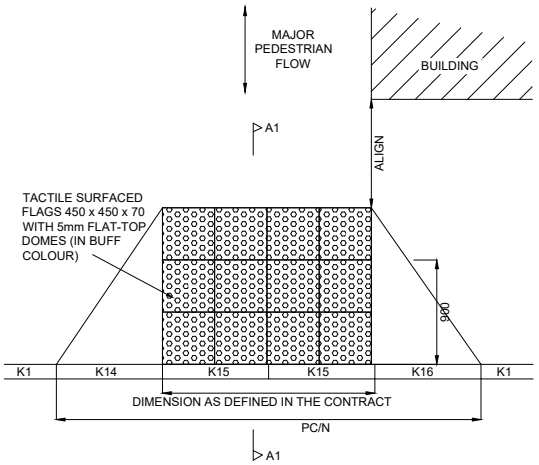
Scale	1:10
Drawn	MWN
Checked	JMH
Section	HD
Date	MAY 2022
Drawing No.	HD/SD/07/19A





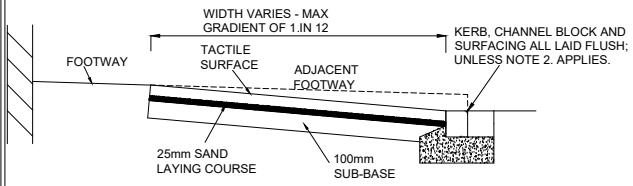
DETAIL A

DETAIL OF TACTILE PAVING WHERE CROSSING IS SITED AT RIGHT ANGLES TO THE FOOTWAY ON A STRAIGHT ROAD



DETAIL B

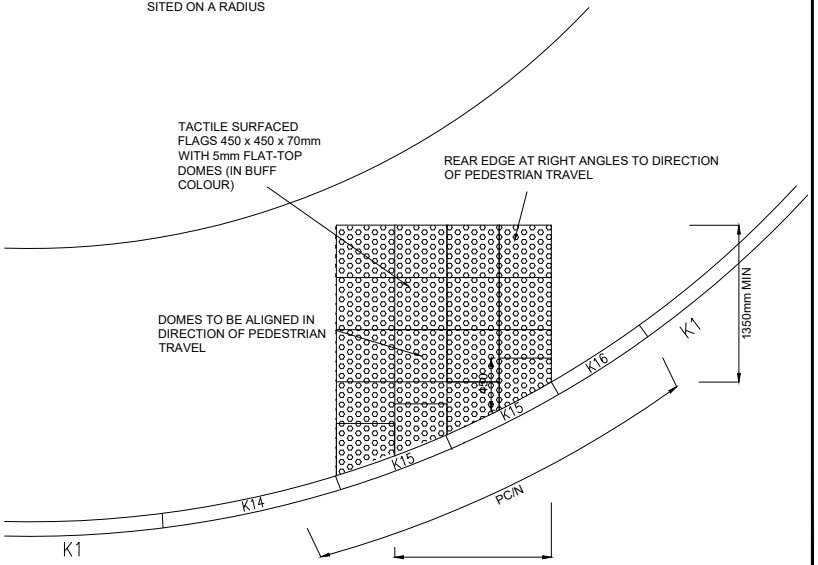
DETAIL OF TACTILE PAVING WHERE CROSSING IS SITED AT RIGHT ANGLES TO THE FOOTWAY AT GAP IN BUILDING LINE



SECTION A1 - A1

DETAIL C

TYPICAL DETAIL OF TACTILE PAVING WHERE CROSSING IS SITED ON A RADIUS



NOTES

1. EDGE FLAGS (CUT) SHALL BE NOT LESS THAN 1/2 FLAG IN WIDTH.
K15 KERBS TO BE SET FLUSH TO CHANNEL BLOCKS EXCEPT WHERE BACKFALL TO RAMP IS UNAVOIDABLE - IF SO SET K15 KERBS 6mm ABOVE CHANNEL BLOCKS FOR DRAINAGE PURPOSES. CHANNEL BLOCKS SHALL NOT BE PROVIDED IF
POINTS ON THE RADIUS KERB BECAUSE A RAISED RADIUS KERB GIVES POSITIVE GUIDANCE FOR DRIVERS TURNING THROUGH
DRAINAGE AT SUB-KERBS IS NOT INCLUDED IN THE WORKS ABOVE. IT IS IMPORTANT TO AVOID HAVING FLUSH CROSSING
THE JUNCTION, MINIMISING THE RISK OF VEHICLES OVER-RUNNING THE FOOTWAY.

2. WHERE PC/N REFERENCE USED `N' REFERS TO NUMBER OF KERBS TYPE K15. (MIN TO BE N=1.5)
3. TACTILE AREA SHALL BE PAVED IN BUFF TACTILE BLOCKS TO SAME LAYOUT AND AREA IF SO SPECIFIED IN THE CONTRACT
4. WHERE ADJACENT FLAGS ARE BUFF, TACTILE FLAGS TO BE IN CONTRASTING COLOUR OTHER THAN RED.
5. IN CERTAIN SITUATIONS A SINGLE ROW OF TACTILE FLAGS MAY BE REQUIRED. REFER TO SCHEME GENERAL ARRANGEMENT DRAWING.
6. WHERE THE BACK EDGE IS NOT PARALLEL TO THE KERB (ie THE CROSSING ITSELF IS NOT AT RIGHT ANGLES TO THE KERB) THE TACTILE SURFACE NOT BE LESS THAN 800mm IN DEPTH AT ANY POINT.

Kirklees COUNCIL

Commercial Regulatory and Operational Service
Highway Design
Flint Street, Fartown
Huddersfield, HD1 6LG

Project

STANDARD DETAILS

Title

TEXTURED FOOTWAY SURFACES AT UNCONTROLLED PEDESTRIAN CROSSINGS

Scale	
NOT TO SCALE	
Drawn: AKKV/AA	Checked: DB
Section: HD	Date: APRIL 21
Drawing No. HD/SD/11/11B	