

TARMACADAM CARRIAGEWAY						
COURSE	SPECIFICATION	THICKNESS				
SURFACE	HOT ROLLED ASPHALT. 30/14F + PCC 14/20, PEN 40/60, MIN PSV 63, MAX AAV 14.	40				
	CLOSE GRADED AC10, PEN 100/150, MIN PSV 60, MAX AAV 14	40				
BINDER	CLOSE GRADED AC20, PEN 40/60.	60				
BASE	CLOSE GRADED AC32, PEN 40/60.	130				
SUB-BASE	DfT TYPE 1	SEE TABLE NOTE 3				
CAPPING	CLASS 6F1 OR 6F2 GRANULAR CAPPING MATERIAL	SEE TABLE NOTE 4				

TABLE NOTES

SEE NOTE 9 FOR DETAILS ON BOND COATS BETWEEN LAYERS;

SUB-BASE REQUIREMENTS TO BE DETERMINED BY CBR TEST; CARRIAGEWAY CAPPING REQUIREMENTS TO BE DETERMINED BY CBR TEST;

CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 20-30m INTERVALS AND RESULTS REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER.

Surface Options Layer	Bituminous	inous Pavers			Flags	
Surfacing ⁽²⁾	20mm surface course ⁽⁴⁾	≥50mm pave	r clay rs	≥60mm concrete blocks	300mm x 300r or 400mm x 400 or 450mm x 450	
Ĩ	40mm binder course ⁽¹⁾	30mm laying co (compact		urse sand ed)	25mm laying co (compacted) o	
Sub-base(2)	150mm	250mm	200mm	150mm	250mm	200mm
Subgrade ⁽³⁾	-	CBR ≤2%	2% ≤ CBR ≤5%	CBR >5%	CBR ≤2%	2% ≤ CBR ≤5%

CBR FOR FOOTWAYS & CYCLEWAYS SUBJECT TO VEHICULAR LOADING



TACTILE PAVING PEDESTRIAN CROSSING SEE TABLE FOR CONSTRUCTION DETAILS

TACTILE CROSSINGS					
COURSE	SPECIFICATION				
SURFACE	400x400 TACTILE BLISTER PAVING FLAGS				
LAYING	SAND/CEMENT MORTAR BED				
SUB-BASE	DfT TYPE 1.				

TABLE NOTES

TACTILES WITHIN AREAS WITH VEHICLE OVER-RUN WILL REQUIRE 200x100x65 TACTILE 1 BLOCKS

SERVICE COVERS WITHIN TACTILE EXTENTS WILL REQUIRE RECESS COVERS AND FRAMES;

SUB-BASE REQUIREMENTS TO BE DETERMINED BY CBR TEST: CARRIAGEWAY CAPPING REQUIREMENTS TO BE DETERMINED BY CBR TEST; CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 20-30m INTERVALS AND RESULTS

REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER.

COURSE	SPECIFICATION
SURFACE	MARSHALLS KEYBLOK (200x100) CONCRETE PAVING LAID HERRINGBONE PATTERN. COLOUR: GREYS: 'CHARCOAL' REDS: 'BRINDLE' OR 'RED' - SUBJECT TO CONTRAST WITH HIGHWAY AND HOUSES.
LAYING	COURSE SHARP SAND. TO BE TREATED WITH APPROVED AND POST EMERGENCE RESIDUAL WEED KILLER.
BASE	CLOSE GRADED AC32, PEN 40/60.
SUB-BASE	DfT TYPE 1.
CAPPING	CLASS 6F1 OR 6F2 GRANULAR CAPPING MATERIAL.

TABLE NOTES

1. ALL BLOCK PAVIOUR JOINTS TO BE SEALED WITH PRE-POLYMER URETHANE

- SUB-BASE REQUIREMENTS TO BE DETERMINED BY CBR TEST;
- CARRIAGEWAY CAPPING REQUIREMENTS TO BE DETERMINED BY CBR TEST: CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 20-30m INTERVALS AND RESULTS
- REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER.













EDGING KERB DETAIL A PER WDS_HD_03, 'STRAIGHT KERBS'



TARMACADAM FOOTWAY/CYCLEWAY SEE TABLE FOR CONSTRUCTION DETAILS



MODULAR PAVING FOOTWAY SEE TABLE FOR CONSTRUCTION DETAILS









TARMACADAM (FLEXIBLE) FOOTWAY/CYCLEWAY						
COURSE	SPECIFICATION	THICKNESS				
SURFACE	CLOSE GRADED AC6, PEN 100/150.	25				
BINDER	CLOSE GRADED AC20, PEN 40/60.	75				
SUB-BASE	DfT TYPE 1	SEE TABLE NOTE 2				
TABLE NOTES						
1 SEE NOTE 9 FOR DETAILS ON BOND COATS BETWEEN LAYERS						

REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER.

ODULAR PAVING (RIGID) FOOTWAY						
COURSE	SPECIFICATION	THICKNESS				
SURFACE	DEPENDENT ON LOCATION. SEE TABLE NOTES 1.	SEE TABLE NOTE 1				
LAYING	COURSE SHARP SAND. SEE TABLE NOTES 2.	30-50				
SUB-BASE	DfT TYPE 1	SEE TABLE NOTE 3				
TABLE NOTES						

- FOR APPROVED MATERIALS;
- KILLER. 3. SUB-BASE REQUIREMENTS TO BE DETERMINED BY CBR TEST;
- CARRIAGEWAY CAPPING REQUIREMENTS TO BE DETERMINED BY CBR TEST;
- REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER.

VEHICULAR CROSSOVERS						
COURSE	SPECIFICATION	THICKNESS				
SURFACE	CLOSE GRADED AC6, PEN 100/150.	25				
BINDER	CLOSE GRADED AC20, PEN 40/60.	75				
SUB-BASE	DfT TYPE 1.	SEE TABLE NOTE 2				

TABLE NOTES

SEE NOTE 9 FOR DETAILS ON BOND COATS BETWEEN LAYERS; SUB-BASE REQUIREMENTS TO BE DETERMINED BY CBR TEST: HIGHWAY AUTHORITY/ENGINEER.

Restricted Design: Foun



CBR (%)	Subbase on C	Subbase Only (mm			
	Subbase	Capping			
≤2.5	Ground St	abilisation	Ground Stabilisation		
2.6 - 2.9	350	250	450		
3.0 - 3.9	320	240	400		
4.0 - 4.9	270	220	360		
5.0 - 5.9	240	210	320		
6.0 - 7.9	210	200	300		
8.0 - 9.9	200 180		270		
10 - 11.9	180	180	250		
12.0 - 14.9	170	160	230		
15.0≥	150	150	200		

SEE TABLE FOR CONSTRUCTION DETAILS

PER WDS_HD_03, 'EDGING KERBS'

2. SUB-BASE REQUIREMENTS TO BE DETERMINED BY CBR TEST;

CARRIAGEWAY CAPPING REQUIREMENTS TO BE DETERMINED BY CBR TEST;

CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 20-30m INTERVALS AND RESULTS

1. RIGID CONSTRUCTION ONLY APPLICABLE TO TOWN CENTRES AND OTHER PUBLIC REALM LOCATIONS. SEE HIGHWAYS DESIGN GUIDE TABLE A2 PAGE 52 'FOOTWAY AND PAVED AREA'

2. TO BE TREATED WITH APPROVED ACTIVE PRE AND POST EMERGENCE RESIDUAL WEED

5. CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 20-30m INTERVALS AND RESULTS

CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AND RESULTS REPORTED TO THE

	S	ubgrade C	BR (%)					
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Class	es 1-3		-			-		
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CARRIAGEWAY SUB-BASE OR CAPPING ONLY

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	-Subbase M	CHW18	03, 804, 80	05, 806 (804	mixture fo	r not mor	e than 5n	nsa)
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CARRIAGEWAY SUB-BASE ON CAPPING

GENERAL NOTES:

- Do not scale from this drawing. Use only written dimensions. 2. All dimensions are in millimeters unless stated
- otherwise. This drawing is to be read in conjunction with and checked against all other WBC Standard Detail drawings, Highways Design Guide, British Standards and all other relevevent guidance's. In the event of any conflict with said
- guidance's, the standards shall prevail. Appointed WBC Highway Engineer to be presen during inspections/CBR testing.
- 5. All kerbs to BS EN 1340:2003 4. All concrete within ground to be AC-4 with design sulphate class of DS-4.

CONSTRUCTION NOTES:

- See Highways Design Guide Table A1 for details on carriageway dimensions according to street hierarchy
- 2. Edging kerbs shall be provided on all free edges of paved areas not confined by a kerb or boundary wall.
- Footway and highway verges shall fall at 1:40-1:60 towards the carriageway unless
- otherwise approved by appointed WBC Engineer Vertical alignment of back edging shall be maintained at crossing points and the crossing
- graded from edging to carriageway level. All soft spots and organic material must be
- removed before construction. 6. An approved residual weedkiller which does not
- contain atrazine or simazine must be applied t all formations. Verge areas shall have a 150 covering of
- topsoil spread 25 above top of kerb or edging to allow for settlement and shall be seeded in accordance with the specification. 8. Existing verges adjacent to new kerbing must l
- regraded and seeded. 9. If Bituminous layers are not laid immediately after one another, a Bond Coat shall be
- 10. Tact coat to be applied to kerb-faces and
- ironworks prior to bituminous surface course being laid.
- The aggregate in surface course materials shall have a minimum polished stone value of 60 and a maximum aggregate abrasion value of
- 12. Gravel aggregate will not be permitted in
- asphaltic concrete. 13. Limestone aggregate will not be permitted in surface course material or binder course
- material which is to be trafficked. 14. Type 1 material with crushed gravel aggregate
- shall not be used in the top 150mm below base course level unless permitted by WBC. 15. Use of recycled/reclaimed aggregate material is not permitted unless approved by appointed WBC Engineer.
- 16. Levels of Ironworks and apparatus to be adjusted accordingly prior to the laying of bound construction layers. If bituminous layers are placed prior to raising, 300 trimback is required; cut to be made with diamond saw. I cracking or failure occurs, the cut position is to be extended at least 50 beyond that point.
- 7. For the purpose of reinstatement/repairs or tie—ins, material used will typically be that of existing. Departure subject to discretion of approving/supervising WBC engineer.
- 18. If it is not possible grade private land behind the public highway to drain surface water away from the Highway, the owner must install a linear channel drain within the extents of their land at the Highway boundary and connected to a suitable outrall.
- 19. Any existing Highway Authority or Statutory Undertaker service covers within the area of the plateau or ramp shall be re-leveled, strengthened and replaced with appropriate load bearing cover. Existing Highway Authority or Statutory Undertaker services within the same areas shall be lowered where necessary.
- 20. The Highway Authority reserves the right to require Applicants to relocate any Highway Authority or Statutory Undertaker service covers and chambers (including gullies) within the carriageway should these be located immediately in front of ramps.
- 21. See WBC Highways Design Guide Table A1 Dimensions of Ma widths according to street hierarchy. 22. See WBC Highways Design Guide Table A1
- 'Parking' for parking bay (including inset bay) widths according to street hierarchy.
- 23. See WBC Highways Design guide Table A1 'Footway, Cycleway, Verge & Margins' for
- footway widths according to street hierarchy. 24. Ramp to extend the full width of the footway with a max gradient of 8%.
- 25. Plateau width to be ≥ 45% of the total Footway width providing maximum ramp gradient of 8% is not exceeded.
- 26. If it is not possible grade private drives to drain surface water away from the Highway, the owner must install a linear channel drain within the extents of their land at the Highway boundary and connected to a suitable outfall
- 7. Overbanding is not to be used on the public highway unless it features anti-skid properties and is a proprietary product with HAPAS approval including conforming to British Standards for antiskid BS EN 1423:2012.

17/07/2020	A
Date Approved	Revision



WOKINGHAM **BOROUGH COUNCIL**

Project WOKINGHAM BOROUGH COUNCIL HIGHWAYS DEVELOPMENT **DESIGN STANDARD PLANS**

STANDARD DETAILS SHEET 1 OF 4

NOT TO SCALE		Drawn	SL	
		Designed	WBG	
Drawing No.		Rev. A	Checked	-
WDS_HD_01			Approved	-
Date Drawn 16/07/2020	Date Approved 17/07/2020			