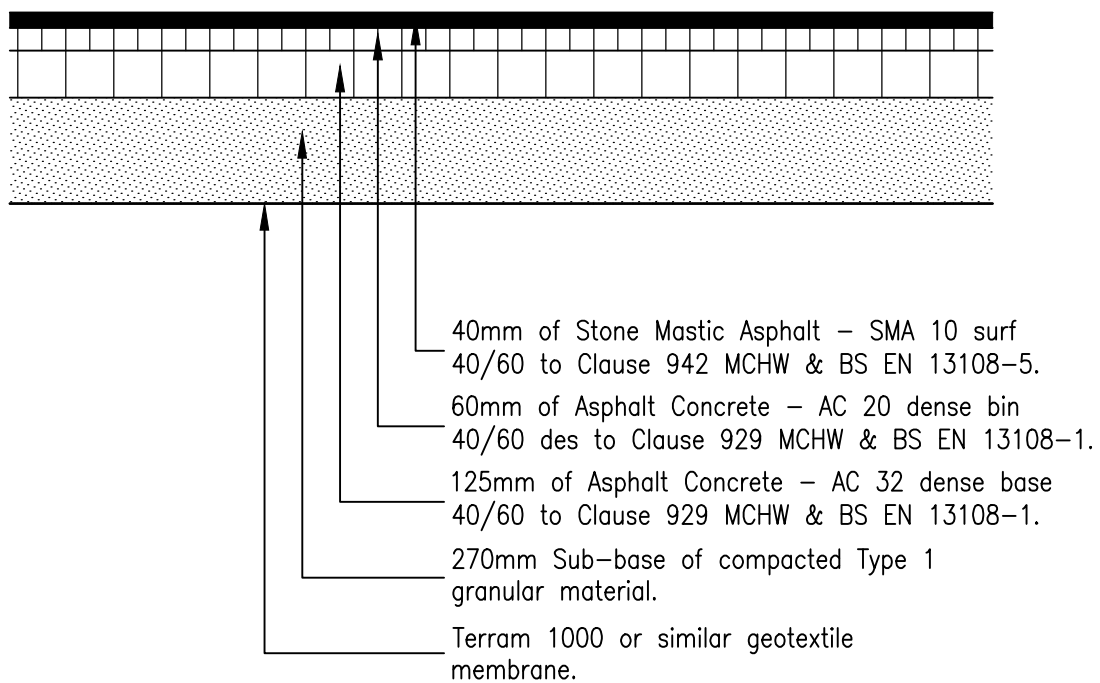
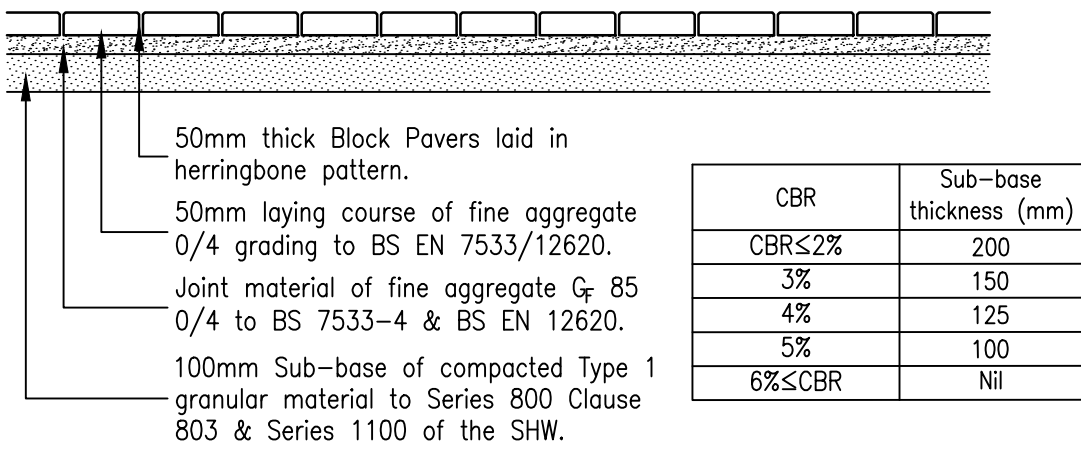




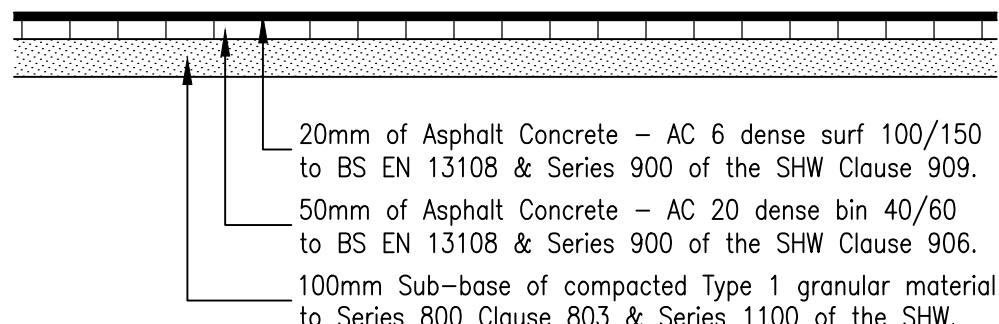
Asphalt Carriageway Construction
(1:20)

- NOTES:
- Proposed asphalt carriageway construction designed in accordance with DMRB CD 226 for 3msa with a foundation class 2 based on a sub-base layer of 5% subgrade CBR equivalent to a 50Mpa subgrade surface modulus in accordance with DMRB CD 225 rev 1.
 - Refer to table for sub-base thickness for other subgrade CBR values.
 - For CBRs of 2.3% or less subgrade improvement or other form of soil stabilization is required.



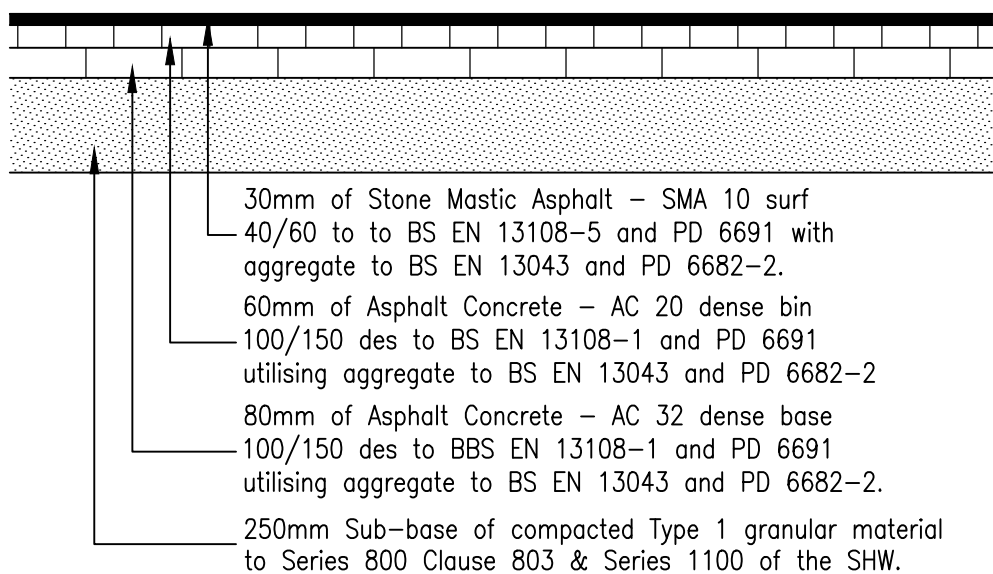
Block Footway Construction
(1:20)

- NOTES:
- Proposed block footway construction designed in accordance with BS 7533-2 for Traffic Category IV (private drives, paths, patio, hard landscaping, areas receiving pedestrian traffic only), with 5% subgrade CBR.
 - Refer to table for sub-base thickness for other subgrade CBR values.
 - For CBRs of 2% or less a Geotextile (Terram T1000 or similar approved) shall be placed at the subgrade level.



Asphalt Footway Construction
(1:20)

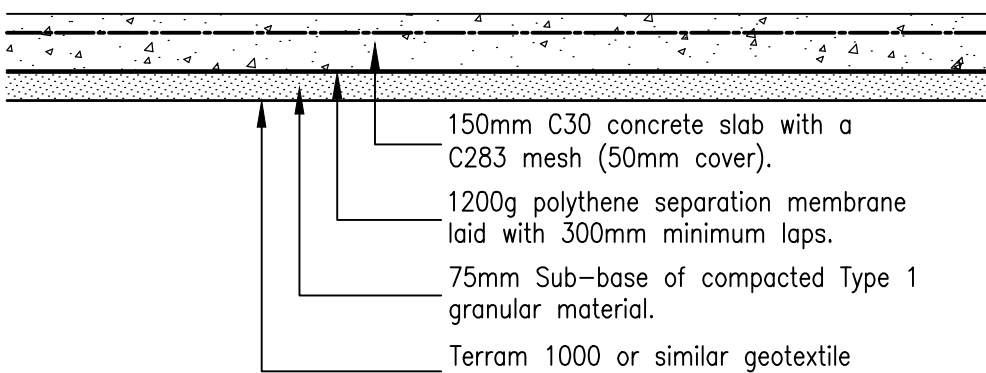
- NOTES:
- Proposed asphalt footway construction designed in accordance with DMRB CD 239 Revision 1 for Pedestrian-only footways and cycle-only cycleways with 2.5% subgrade CBR.



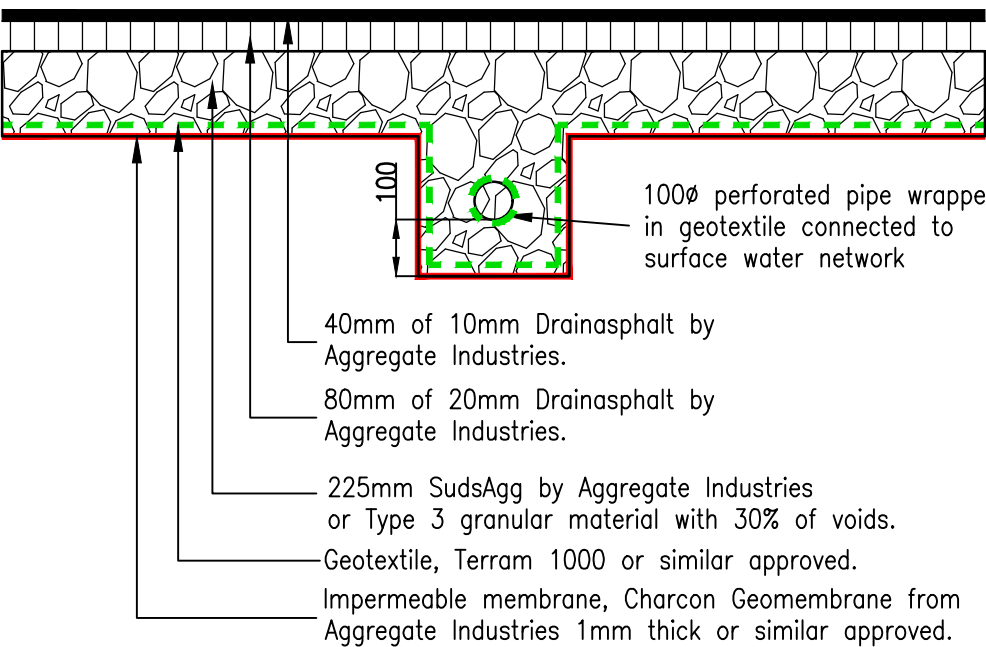
Asphalt Shared Parking Construction
(1:20)

- NOTES:
- Proposed asphalt shared parking construction designed in accordance with NHBC 2021 guidance for shared drives having frequent use by commercial vehicles with 3% subgrade CBR.
 - Refer to NHBC sub-base table for sub-base thickness for other subgrade CBR values.
 - Bond coat should be provided for bituminous mixtures in accordance with BS 4987-2 or BS 594-2.

NHBC Sub-base / CBR Table	
CBR	Sub-base thickness (mm)
2%≤CBR<3%	325
3%≤CBR<5%	250
5%≤CBR<7%	150
7%≤CBR	100

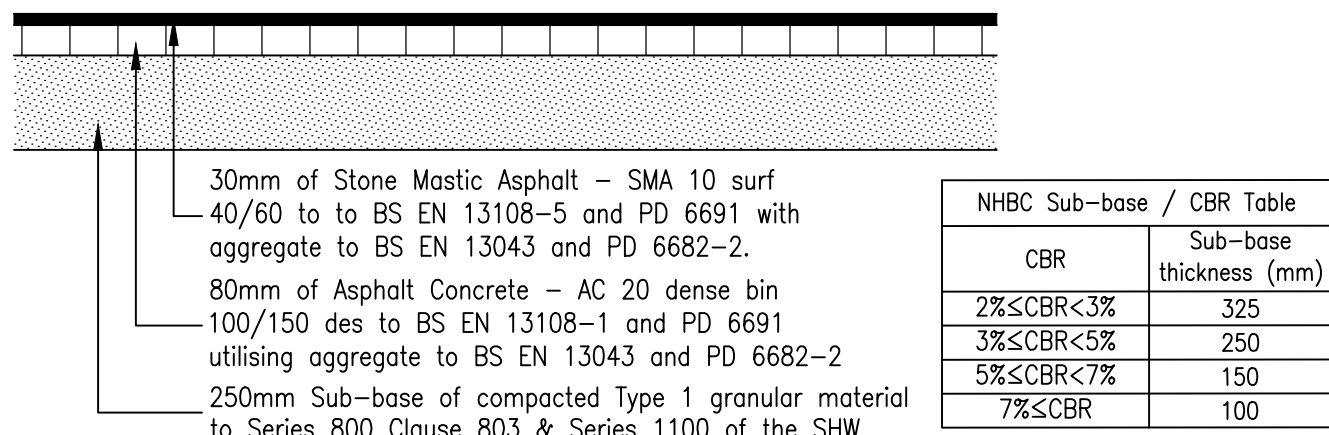


Concrete Footway Construction
(1:20)



Permeable Asphalt Car Park Construction
(1:20)

- NOTES:
- Proposed footway construction designed for Traffic Category 3 to BS 7533 (Small car parks subjected to car, light van and motorcycle access).
 - Maximum axle load of 2000kg.
 - In overall the construction should be a minimum of 450mm thick made of non-frost susceptible materials



Asphalt Carpark Construction
(1:20)

- NOTES:
- Proposed asphalt drive construction designed in accordance with NHBC 2021 guidance for shared drives having infrequent use by commercial vehicles with 3% subgrade CBR.
 - Refer to NHBC sub-base table for sub-base thickness for other subgrade CBR values.
 - Bond coat should be provided for bituminous mixtures in accordance with BS 4987-2 or BS 594-2.

NHBC Sub-base / CBR Table	
CBR	Sub-base thickness (mm)
2%≤CBR<3%	325
3%≤CBR<5%	250
5%≤CBR<7%	150
7%≤CBR	100

Notes:

- Do not scale from this drawing.
- In case of any discrepancies in drawings, details or bills, refer to engineers for clarification; unilateral decisions by the Contractor will not be accepted.
- This drawing is to be read in conjunction with all related Architects, Consultants & Sub-Contractors drawings and specifications.
- The Contractor is advised that all design drawings and information are to be read concurrently and any discrepancies or omissions reported directly to PTA's Civil Engineering Department.

© Powell Tolner & Associates Ltd.

The contents of this drawing may not be reproduced in whole or in part without the prior written permission of Powell Tolner & Associates.

DRAWING STATUS

COMMENT/COSTING/APPROVAL
NOT FOR CONSTRUCTION

P02	Permeable Asphalt Car Park Construction Detail Added.	LB	07.06.21	
P01	First Issue.	LB	19.03.21	
REV	DESCRIPTION	BY	DATE	CHK'D

PROJECT TITLE

Grimshaw Lane, Manchester

DRAWING TITLE

Proposed External Works
Details Sheet 1 of 2

DATE	March 2021	This drawing is issued only for the purposes described in the drawing status box.	PTA PROJ No
DRAWN	LB		9762
SCALE	As Noted	REVISION	P02
DRG SIZE	A1		

9762-PTA-XX-XX-DR-C- 8361

Consulting Civil & Structural Engineers

