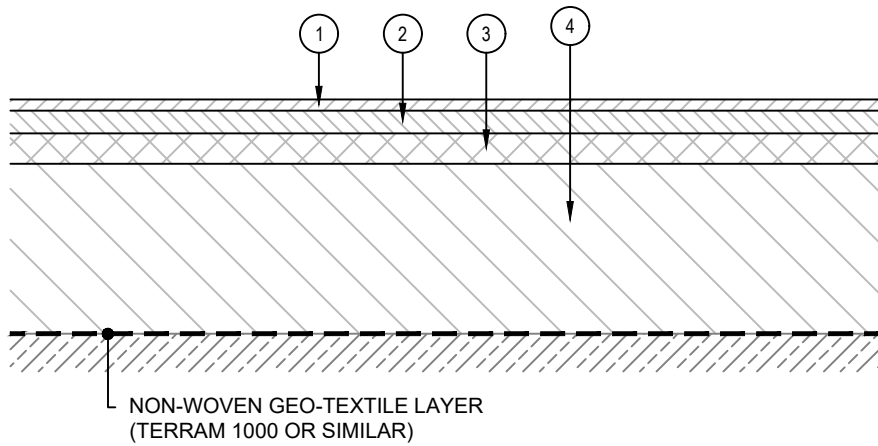
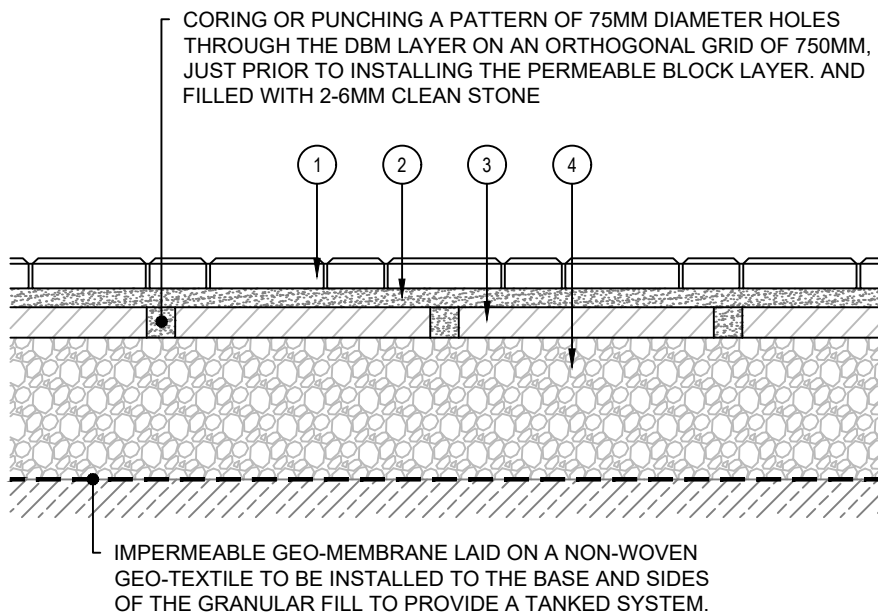


SPECIFICATION 1 - IMPERMEABLE ASPHALT CONSTRUCTION			
	LAYER	SPECIFICATION	COMPACTED THICKNESS (mm)
SPECIFICATION 1	1	<u>SURFACE COURSE</u> STONE MASTIC ASPHALT (SMA 10 SURF 40/60) TO SECTION D3 OF PD6691:2022 ^(6/50/7/8) WITH A MIN PSV OF 53, TO GIVE A TEXTURED DEPTH OF 0.6 - 1.0MM, 'SHW' CLAUSE 921 TABLE 9/3 (MEASURED BY SAND PATCH METHOD).	30
	2	<u>BINDER COURSE</u> ASPHALT CONCRETE (AC 20 DENSE 40/60) TO PD6691:2022 TO CLAUSE B.3.3. ^(2/5/9/7)	60
	3	<u>BASE COURSE</u> ASPHALT CONCRETE (AC 32 DENSE 40/60) TO PD6691:2022 TO CLAUSE B.3.3. ^(2/5/9/7)	80
	4	<u>SUB-BASE</u> GRANULAR SUB-BASE TYPE 1 TO BE CERTIFIED AS NON-FROST SUSCEPTIBLE AND SPREAD EVENLY OVER A NON WOVEN GEOTEXTILE FILTER MEMBRANE ON TRIMMED FORMATION IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS. COMPACTION TO SPECIFICATION FOR HIGHWAY WORKS, CLAUSE 802.	450 (Subject to onsite CBR testing of Min. 3.0%)
GENERAL FILL		CLASS 1 GRANULAR FILL MATERIAL TO SPECIFICATION FOR HIGHWAY WORKS, TABLE 6/1 AND CLAUSE 613. COMPACTED IN LAYERS IN ACCORDANCE WITH SPECIFICATION FOR HIGHWAY WORKS TABLE 6/4.	AS REQUIRED



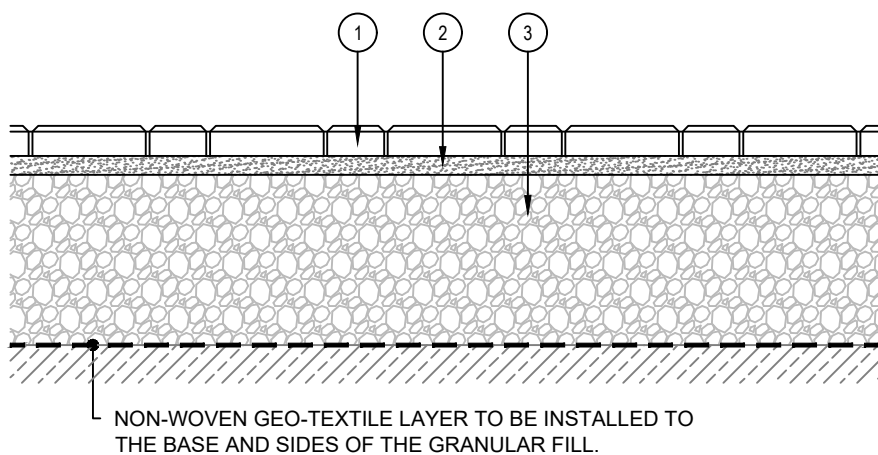
SPECIFICATION 1 - PRIVATE ROAD
SCALE 1:20

SPECIFICATION 2 - PERMEABLE BLOCK PAVING CONSTRUCTION			
	LAYER	SPECIFICATION	COMPACTED THICKNESS (mm)
SPECIFICATION 2	1	<u>SURFACE COURSE</u> "FORMPAVE AQUAFLOW" (OR SIMILAR) PRECAST CONCRETE RECTANGULAR BLOCKS OF DIMENSIONS 200 x 100 x 80mm COMPLYING WITH BS EN1338:2003. LAYING PATTERN TO BE 90° HERRINGBONE WITH A DOUBLE STRETCHER COURSE TO THE OUTSIDE EDGE. COLOUR TO BE AGREED WITH THE ARCHITECT.	80
	2	<u>LAYING COURSE</u> 2.0-6.3mm NOMINAL SIZE CLEAN CRUSHED STONE TO BS7533-13:2009.	50
	3	<u>BASE COURSE</u> ASPHALT CONCRETE (AC 32 DENSE 40/60) TO PD6691:2022 ANNEX B. REFER TO ADJACENT DETAIL FOR CORING PATTERN OF 75MM DIAMETER HOLES.	70
	4	<u>SUB-BASE</u> SUB-BASE COMPRISING OF COURSE GRADED AGGREGATE (4/20) TO BS7533-13:2009, LAID AND COMPACTED OVER IMPERMEABLE GEO-MEMBRANE AND A NON WOVEN GEO-TEXTILE LAYER (TO BASE AND SIDES). THE FORMATION SHALL BE SHAPED AND PREPARED AND TREATED WITH A GRANULAR WEED KILLER OF THE PRE-EMERGENT TYPE.	375 (Subject to onsite CBR testing of Min. 3.0%)
GENERAL FILL		EXTEND SUB-BASE CONSTRUCTION	AS REQUIRED



SPECIFICATION 2 - PRIVATE ROAD
SCALE 1:20

SPECIFICATION 3 - PERMEABLE BLOCK PAVING CONSTRUCTION			
	LAYER	SPECIFICATION	COMPACTED THICKNESS (mm)
SPECIFICATION 3	1	<u>SURFACE COURSE</u> "FORMPAVE AQUAFLOW" (OR SIMILAR) PRECAST CONCRETE RECTANGULAR BLOCKS OF DIMENSIONS 200 x 100 x 80mm COMPLYING WITH BS EN1338:2003. LAYING PATTERN TO BE 90° HERRINGBONE WITH A DOUBLE STRETCHER COURSE TO THE OUTSIDE EDGE. COLOUR TO BE AGREED WITH THE ARCHITECT.	60
	2	<u>LAYING COURSE</u> 2.0-6.3mm NOMINAL SIZE CLEAN CRUSHED STONE TO BS7533-13:2009.	50
	3	<u>SUB-BASE</u> SUB-BASE COMPRISING OF COURSE GRADED AGGREGATE (4/20) TO BS7533-13:2009, LAID AND COMPACTED OVER A NON WOVEN GEO-TEXTILE LAYER (TO BASE AND SIDES). THE FORMATION SHALL BE SHAPED AND PREPARED AND TREATED WITH A GRANULAR WEED KILLER OF THE PRE-EMERGENT TYPE.	450 (Subject to onsite CBR testing of Min. 3.0%)
GENERAL FILL		EXTEND SUB-BASE CONSTRUCTION	AS REQUIRED

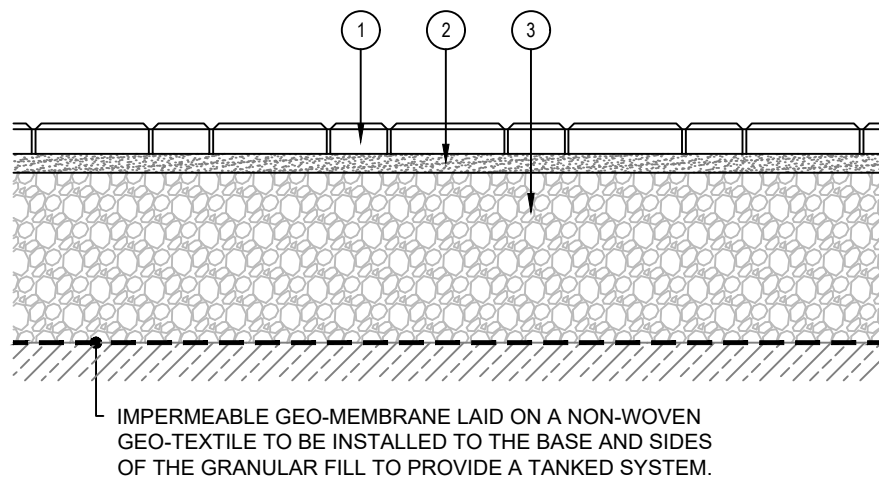


SPECIFICATION 3 - PRIVATE DRIVEWAYS/CARPARK
SCALE 1:20

NOTES:

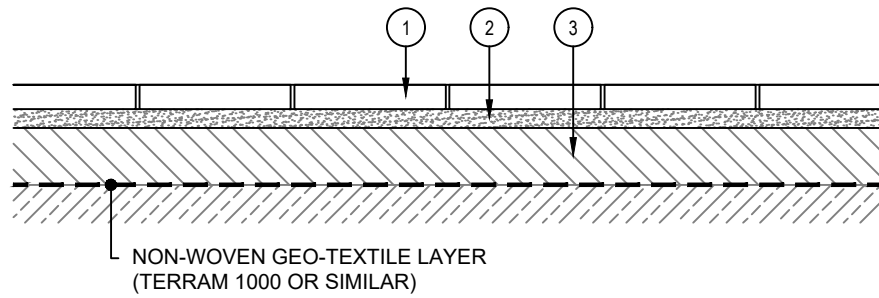
- HIGHWAYS ENGLAND SPECIFICATION FOR HIGHWAYS WORKS
- REFER TO BS EN 13108-1 FOR MATERIAL SPECIFICATION FOR ASPHALT CONCRETE
- REFER TO BS EN 13108-4 FOR MATERIAL SPECIFICATION FOR HOT ROLLED ASPHALT
- REFER TO BS EN 13108-5 FOR MATERIAL SPECIFICATION FOR STONE MASTIC ASPHALT
- REFER TO BS 59487 FOR TRANSPORT, LAYING AND COMPACTION OF ALL ASPHALT
- THE DESIGN IS BASED ON AN ASSUMED CBR VALUE AND SHALL BE SUBJECT TO AMENDMENT FOLLOWING ONSITE SOAKED CBR TESTING.
- BOND COATS TO BE USED IN ACCORDANCE WITH BS59487 AND TO BE APPLIED ON ALL KERB AND EDGING FACES ALONG WITH GULLY AND COVER FRAMES.
- BOND COATS TO BE APPLIED ON TOP ON BASE AND BINDER COURSE, AS WELL AS JOINTS IN THE BINDER AND BASE COURSE TO BE OVER BANDED.
- SMA TO BE GRITTED WHILST MATERIAL IS HOT, 1.0 - 2.0 kg/m² APPLIED BY ROLLER MOUNTED HOPPER.

SPECIFICATION 4 - PERMEABLE BLOCK PAVING CONSTRUCTION			
	LAYER	SPECIFICATION	COMPACTED THICKNESS (mm)
SPECIFICATION 4	1	<u>SURFACE COURSE</u> "FORMPAVE AQUAFLOW" (OR SIMILAR) PRECAST CONCRETE RECTANGULAR BLOCKS OF DIMENSIONS 200 x 100 x 60mm COMPLYING WITH BS EN1338:2003. LAYING PATTERN TO BE 90° HERRINGBONE WITH A DOUBLE STRETCHER COURSE TO THE OUTSIDE EDGE. COLOUR TO BE AGREED WITH THE ARCHITECT.	60
	2	<u>LAYING COURSE</u> 2.0-6.3mm NOMINAL SIZE CLEAN CRUSHED STONE TO BS7533-13:2009.	50
	3	<u>SUB-BASE</u> SUB-BASE COMPRISING OF COURSE GRADED AGGREGATE (4/20) TO BS7533-13:2009, LAID AND COMPACTED OVER IMPERMEABLE GEO-MEMBRANE AND A NON WOVEN GEO-TEXTILE LAYER (TO BASE AND SIDES). THE FORMATION SHALL BE SHAPED AND PREPARED AND TREATED WITH A GRANULAR WEED KILLER OF THE PRE-EMERGENT TYPE.	450 (Subject to onsite CBR testing of Min. 3.0%)
GENERAL FILL		EXTEND SUB-BASE CONSTRUCTION	AS REQUIRED



SPECIFICATION 4 - PRIVATE DRIVEWAYS/CARPARK
SCALE 1:20

SPECIFICATION 5 - FLAG PAVING CONSTRUCTION			
	LAYER	SPECIFICATION	COMPACTED THICKNESS (mm)
SPECIFICATION 5	1	<u>SURFACE COURSE</u> 450x450mm PAVING SLABS. NARROW JOINTS (2-5mm WIDE) TO BE GROUTED WITH A 1:3 LIME-CEMENT MORTAR. WIDE JOINTS (5-10mm WIDE) TO BE FILLED WITH A 1:4 CEMENT-SAND MORTAR. SLAB TYPE AND COLOUR TO BE AGREED WITH ARCHITECT.	35
	2	<u>LAYING COURSE</u> CLEAN SHARP SAND GRADED TO CATEGORY (III) COMPLYING WITH TABLES D1 AND D2 OF BS 7533-3.	50
	3	<u>SUB-BASE</u> GRANULAR SUB-BASE TYPE 1 TO BE CERTIFIED AS NON-FROST SUSCEPTIBLE AND SPREAD EVENLY OVER A NON WOVEN GEOTEXTILE FILTER MEMBRANE ON TRIMMED FORMATION IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS. COMPACTION TO SPECIFICATION FOR HIGHWAY WORKS, CLAUSE 802 TO ACHIEVE A MINIMUM CBR VALUE OF 20%.	100 - 150
GENERAL FILL		CLASS 1 GRANULAR FILL MATERIAL TO SPECIFICATION FOR HIGHWAY WORKS, TABLE 6/1 AND CLAUSE 613. COMPACTED IN LAYERS IN ACCORDANCE WITH SPECIFICATION FOR HIGHWAY WORKS TABLE 6/4.	AS REQUIRED



SPECIFICATION 5 - FLAG PAVING CONSTRUCTION
SCALE 1:20

SPECIFICATION FOR PERMEABLE PAVEMENT CONSTRUCTION

SUBGRADE/FORMATION PREPARATION:

THE SUBGRADE SHALL BE COMPACTED WITH A VIBRATING PLATE OR ROLLER TO THE REQUIREMENTS OF CLAUSE 613 OF THE SPECIFICATION FOR HIGHWAY WORKS (SHW). PRIOR TO COMPACTION ALL SOFT AREAS SHALL BE REMOVED AND FILLED WITH A GRANULAR REPLACEMENT MATERIAL TO PROVIDE A STABLE SUBGRADE.

SUB-BASE GENERALLY:

THE SUB-BASE MATERIAL SHALL BE TO BS7533-13 AND CONSIST OF ROUGH ANGULAR PARTICLES TO GIVE GOOD INTERLOCK. CLEAN CRUSHED ROCK (EG GRANITE, BASALT, GABBRO ETC) OR CONCRETE WITH GREATER THAN 90% FRACTURE FACES OR BLAST FURNACE SLAG IS REQUIRED TO ACHIEVE THIS. SAND AND GRAVEL WITH ROUNDED PARTICLES SHALL NOT BE USED IN PERMEABLE PAVEMENT SUB-BASE CONSTRUCTION. SUB-BASE MATERIAL MUST BE SOUND, NON-FRIABLE AND FREE FROM CLAY OR OTHER DELETERIOUS MATTER. THERE MUST BE A MINIMUM 10% FINES VALUE OF 150µm WHEN TESTED IN ACCORDANCE WITH BSEN1097-2 (PREVIOUSLY BS812 PART 111). COMPACTED WITH A VIBRATING ROLLER OR HEAVY DUTY VIBRATING PLATE TO THE REQUIREMENTS OF CLAUSE 802 OF 'SHW'. THE FINAL PASS SHOULD BE UNDERTAKEN WITH NO VIBRATION.

SUB-BASE:

SUB-BASE SPECIFICATION (4/20) COMPLYING WITH BS 7533-13:2009 AND CONFORMING TO THE FOLLOWING SIEVE ANALYSIS:-

BSEN SIEVE SIZE	% PASSING
40mm	100
31.5mm	98-100
20mm	90-99
10mm	25-70
4mm	0-15
2mm	0-5

LAYING COURSE AND JOINTING:

LAYING COURSE AND JOINTING SPECIFICATION (2/6.3) COMPLYING WITH BS 7533-13:2009 AND CONFORMING TO THE FOLLOWING SIEVE ANALYSIS:-

BSEN SIEVE SIZE	% PASSING
14mm	100
10mm	90-100
6.3mm	80-99
2mm	0-20
1mm	0-5

DESIGN NOTES

- Refer to BLI Consulting Engineers Ltd Drawing No. BLI.2025.90-C-01 for full Design Notes.

P1	25/01/26	First Issue	RSM	RSM
Rev.	Date	Description	Drawn	Chk'd

client: HANSON SERVICES LTD
project: TUSOCKS & HILLCREST, THE CAUSEWAY, THERFIELD, HERTS

dwg title: **CONSTRUCTION DETAILS (SHEET 4 OF 4)**

discipline	CIVIL ENGINEERING	drawn	chk'd	date	scale @ A1
project no.	BLI.2025.90	dwg no.	C 10	rev.	P1
status	COMMENT / APPROVAL	status	AS NOTED	status	AS NOTED