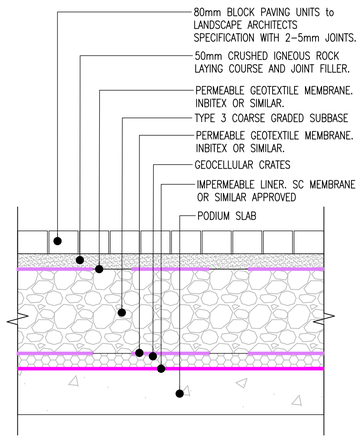
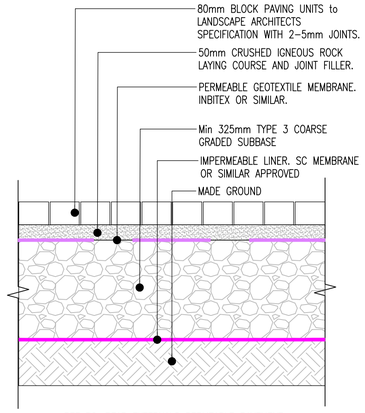


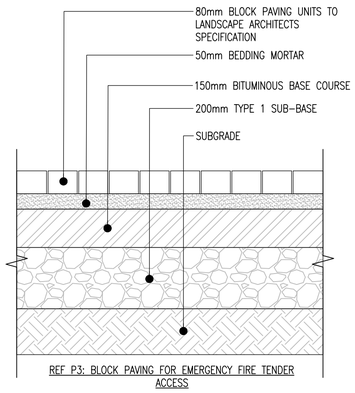
REF P1: PODIUM PERMEABLE PAVEMENT CONSTRUCTION

LAYER	CLAUSE	MATERIAL	THICKNESS	SPECIAL REQUIREMENTS
SURFACE COURSE	1107	BLOCK PAVING UNIT	80mm	TO LANDSCAPE ARCHITECTS DESIGN
LAYING COURSE	–	CRUSHED IGNEOUS ROCK	50mm	BS EN 7533. D_{90} ≤5mm; D_{90} >2mm
SUB-BASE	803	GRANULAR TYPE 3	VARIES TO SUIT EXTERNAL FFL	COMPACTION TO COMPLY WITH DMRB. REFER TO REFORM DRAWINGS: Z0-REF-G710-PI-Grd-0894-0008 to 0010
DRAINAGE LAYER	–	GEO-CELLULAR CRATES	50mm	DETAILS/SPECIFICATION TO BE AGREED
SLAB	–	CONCRETE SLAB	VARIES	SEE STRUCTURAL ENGINEERS DRAWINGS FOR DETAILS



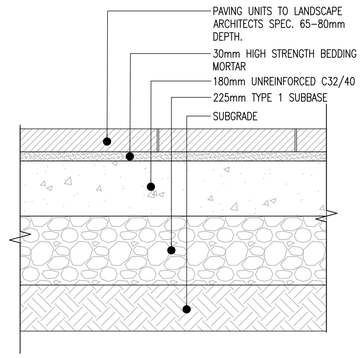
REF P2: REAR EXTERNALS PERMEABLE PAVEMENT CONSTRUCTION

LAYER	CLAUSE	MATERIAL	THICKNESS	SPECIAL REQUIREMENTS
SURFACE COURSE	1107	BLOCK PAVING UNIT	80mm	TO LANDSCAPE ARCHITECTS DESIGN
LAYING COURSE	–	CRUSHED IGNEOUS ROCK	50mm	BS EN 7533. D_{90} ≤5mm; D_{90} >2mm
SUB-BASE	803	GRANULAR TYPE 3	320mm	COMPACTION TO COMPLY WITH DMRB
FORMATION LEVEL/CAPPING	–	CAPPING LAYER (6F2) OR EXISTING GROUND	TO SUIT FFL	–



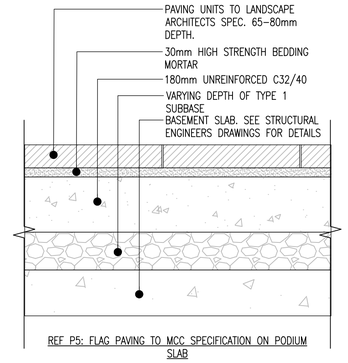
REF P3: BLOCK PAVING FOR EMERGENCY FIRE TENDER ACCESS

LAYER	CLAUSE	MATERIAL	THICKNESS	SPECIAL REQUIREMENTS
SURFACE COURSE	1107	BLOCK PAVING UNIT	80mm	TBC BY LANDSCAPE ARCHITECT
LAYING COURSE	–	PROPRIETARY BEDDING MORTAR	50mm	–
BASE COURSE	906	AC32 DENSE BASE 100/150	150mm	PD 6691 TABLE B.11
SUB-BASE	803	GRANULAR TYPE 1	200mm	COMPACTION TO COMPLY WITH DMRB
FORMATION LEVEL	–	SUBGRADE	–	–



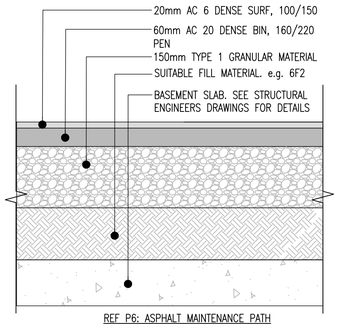
REF P4: FLAG PAVING TO MCC SPECIFICATION

LAYER	CLAUSE	MATERIAL	THICKNESS	SPECIAL REQUIREMENTS
SURFACE COURSE	1104	HIGH QUALITY FLAG PAVING	65-80mm	TBC BY LANDSCAPE ARCHITECT
LAYING COURSE	–	HIGH STRENGTH PROPRIETARY BEDDING MORTAR	30mm	MINIMUM STRENGTH 35N/m²
BASE COURSE	2602	UNREINFORCED C32/40 CONCRETE	180mm	COMPACTION TO COMPLY WITH DMRB
SUB-BASE	803	TYPE 1 GRANULAR MATERIAL	225mm	COMPACTION TO COMPLY WITH DMRB
FORMATION LEVEL	–	SUBGRADE	–	–



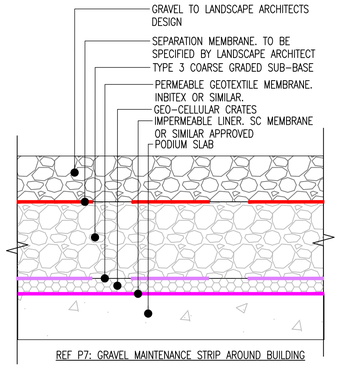
REF P5: FLAG PAVING TO MCC SPECIFICATION ON PODIUM SLAB

LAYER	CLAUSE	MATERIAL	THICKNESS	SPECIAL REQUIREMENTS
SURFACE COURSE	1104	HIGH QUALITY FLAG PAVING	65-80mm	TBC BY LANDSCAPE ARCHITECT
LAYING COURSE	–	HIGH STRENGTH PROPRIETARY BEDDING MORTAR	30mm	MINIMUM STRENGTH 35N/m²
BASE COURSE	2602	UNREINFORCED C32/40 CONCRETE	180mm	COMPACTION TO COMPLY WITH DMRB
SUB-BASE	803	TYPE 1 GRANULAR MATERIAL	TO SUIT FFL	COMPACTION TO COMPLY WITH DMRB
SLAB	–	CONCRETE SLAB	VARIES	SEE STRUCTURAL ENGINEERS DRAWINGS FOR DETAILS



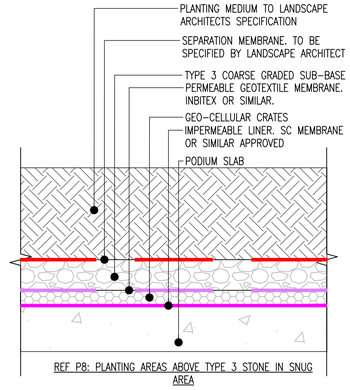
REF P6: ASPHALT MAINTENANCE PATH

LAYER	CLAUSE	MATERIAL	THICKNESS	SPECIAL REQUIREMENTS
SURFACE COURSE	1105	AC 6 DENSE SURF, 100/150	20mm	PD 6691 TABLE B.16
BINDER COURSE	906	AC 20 DENSE BIN, 160/220 PEN	60mm	PD 6691 TABLE B.11
SUB-BASE	803	TYPE 1 GRANULAR MATERIAL	150mm	COMPACTION TO COMPLY WITH DMRB
CAPPING	–	SUITABLE FILL MATERIAL	TO SUIT FFL	MATERIAL TO BUILD UP LEVELS. 6F2 SUGGESTED
SLAB	–	CONCRETE SLAB	VARIES	SEE STRUCTURAL ENGINEERS DRAWINGS FOR DETAILS



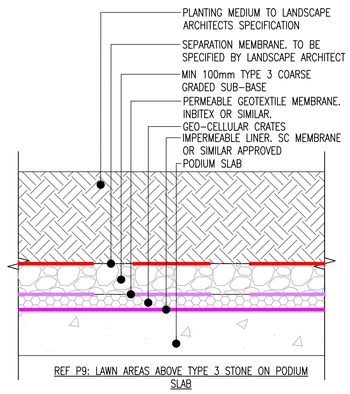
REF P7: GRAVEL MAINTENANCE STRIP AROUND BUILDING

LAYER	CLAUSE	MATERIAL	THICKNESS	SPECIAL REQUIREMENTS
SURFACE COURSE	–	GRAVEL	TBC	TBC BY LANDSCAPE ARCHITECT
SUB-BASE	803	GRANULAR TYPE 3	TO SUIT FFL	COMPACTION TO COMPLY WITH DMRB
DRAINAGE LAYER	–	GEO-CELLULAR EGGCRATE UNITS	50mm	DETAILS/SPECIFICATION TO BE AGREED
SLAB	–	CONCRETE SLAB	VARIES	SEE STRUCTURAL ENGINEERS DRAWINGS FOR DETAILS



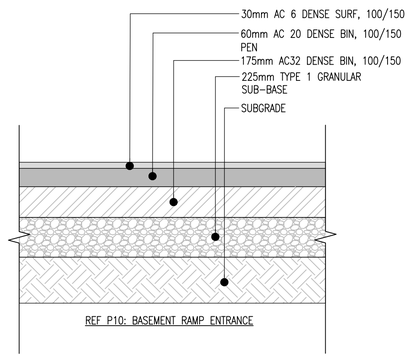
REF P8: PLANTING AREAS ABOVE TYPE 3 STONE IN SNUG AREA

LAYER	CLAUSE	MATERIAL	THICKNESS	SPECIAL REQUIREMENTS
SURFACE COURSE	–	PLANTING MEDIUM	TBC	TBC BY LANDSCAPE ARCHITECT
SUB-BASE	803	GRANULAR TYPE 3	TO SUIT FFL	COMPACTION TO COMPLY WITH DMRB
DRAINAGE LAYER	–	GEO-CELLULAR CRATES	50mm	DETAILS/SPECIFICATION TO BE AGREED
SLAB	–	CONCRETE SLAB	VARIES	SEE STRUCTURAL ENGINEERS DRAWINGS FOR DETAILS



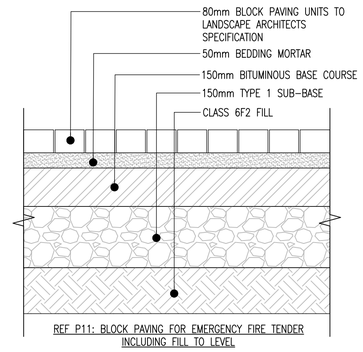
REF P9: LAWN AREAS ABOVE TYPE 3 STONE ON PODIUM SLAB

LAYER	CLAUSE	MATERIAL	THICKNESS	SPECIAL REQUIREMENTS
SURFACE COURSE	–	PLANTING MEDIUM	TBC	TBC BY LANDSCAPE ARCHITECT
SUB-BASE	803	GRANULAR TYPE 3	MIN 100mm	COMPACTION TO COMPLY WITH DMRB
DRAINAGE LAYER	–	GEO-CELLULAR CRATES	50mm	DETAILS/SPECIFICATION TO BE AGREED
SLAB	–	CONCRETE SLAB	VARIES	SEE STRUCTURAL ENGINEERS DRAWINGS FOR DETAILS



REF P10: BASEMENT RAMP ENTRANCE

LAYER	CLAUSE	MATERIAL	THICKNESS	SPECIAL REQUIREMENTS
SURFACE COURSE	1105	AC 10 CLOSE SURF, 100/150	35mm	PD 6691 TABLE B.14
BINDER COURSE	906	AC 20 DENSE BIN, 100/150	60mm	PD 6691 TABLE B.11
BASE COURSE	906	AC 32 DENSE BIN, 100/150	175mm	PD 6691 TABLE B.11
SUB-BASE	803	TYPE 1 GRANULAR MATERIAL	225mm	COMPACTION TO COMPLY WITH DMRB
FORMATION LEVEL	–	SUBGRADE	–	–



REF P11: BLOCK PAVING FOR EMERGENCY FIRE TENDER INCLUDING FILL TO LEVEL

LAYER	CLAUSE	MATERIAL	THICKNESS	SPECIAL REQUIREMENTS
SURFACE COURSE	1107	BLOCK PAVING UNIT	80mm	TBC BY LANDSCAPE ARCHITECT
LAYING COURSE	–	PROPRIETARY BEDDING MORTAR	50mm	–
BASE COURSE	906	AC32 DENSE BASE 100/150	150mm	PD 6691 TABLE B.11
SUB-BASE	803	GRANULAR TYPE 1	150mm	COMPACTION TO COMPLY WITH DMRB
CAPPING	–	CLASS 6F2 FILL	TO SUIT FFL	–

TABLE 1: CAPPING LAYER AND SUB-BASE THICKNESS

SUB-GRADE (CBR)	CAPPING + SUB-BASE (MM)	SUB-BASE ONLY (MM)
<2%	SUB GRADE IMPROVEMENT REQUIRED	
2%	600 + 150	–
2.5%	400 + 150	–
3%	350 + 150	300
4%	300 + 150	275
5%	250 + 150	225
8%	225 + 150	200
10%	175 + 150	175
15%+	–	150

1. CAPPING/SUB-BASE DEPTH DEPENDS UPON EQUILIBRIUM CBR TESTING OF SUB-GRADE (THE CONTRACTOR IS RESPONSIBLE FOR UNDERTAKING THESE TESTS AND ANY SUBSEQUENT IN-SITU TESTS TO DEMONSTRATE VALIDITY OF EQUILIBRIUM TESTING). CAPPING/SUB-BASE DEPTHS TO BE IN ACCORDANCE WITH TABLE 1

2. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SUB-GRADE IS NOT EXPOSED TO INCLEMENT WEATHER. SUB-GRADE ONLY DESIGN SHALL ONLY BE USED WHERE THERE IS ADEQUATE DRAINAGE AND FAVORABLE WEATHER AT THE TIME OF CONSTRUCTION

3. WARRANTY FOR PROPRIETARY SURFACE COURSES IS TO BE PROVIDED BY THE MANUFACTURER & NOT WSP.

4. TACK & BOND COATS TO BE PROVIDED WHERE REQUIRED IN ACCORDANCE WITH SHW CLAUSE 920 AND ANY MANUFACTURER'S REQUIREMENTS.

5. SEALING GRIT TO BE USED FOR TEMPORARY BASE COURSE RUNNING SURFACES ONLY. NOT TO BE USED ON SURFACE COURSE.

6. CBR TESTING TO BE TAKEN AT SUB FORMATION LEVEL.

DO NOT SCALE

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED
2. ALL CLAUSE NUMBERS REFER TO VOLUME 1, SPECIFICATION FOR HIGHWAY WORKS OF THE MANUAL CONTRACT FOR HIGHWAY WORKS.
3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT SCHEME DRAWINGS.
4. REFER TO WSP DRAWING Z0-WSP-G700-PL-XX-001 FOR LOCATIONS AND EXTENTS OF EACH BUILD UP.

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	04/11/2022	JEB	GEOTEXTILE MEMBRANE REFERENCES ADDED	SM	SM
P02	31/10/2022	JEB	UPDATED FOR STAGE 4 CLOSE OUT	SM	SM
P01	19/08/2022	JEB	STAGE 4 ISSUE	SM	SM

DRAWING STATUS: STAGE 4

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CLIENT: RENAKER

ARCHITECT: SIMPSON HAUGH

SITE/PROJECT: PORT STREET, MANCHESTER

TITLE: EXTERNAL WORKS BUILD UPS

SCALE @ A1:	CHECKED:	APPROVED:
1:10MM	SM	SM

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70084548	JEB	JEB	November 22

DRAWING No: Z0-WSP-G700-SE-XX-001 REV: P03

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