

40mm Stone Mastic Asphalt (SMA 10 Surf 40/60) Surfacing Course to IS EN 13108-5 and laid in accordance with TII CC-SPW-00900

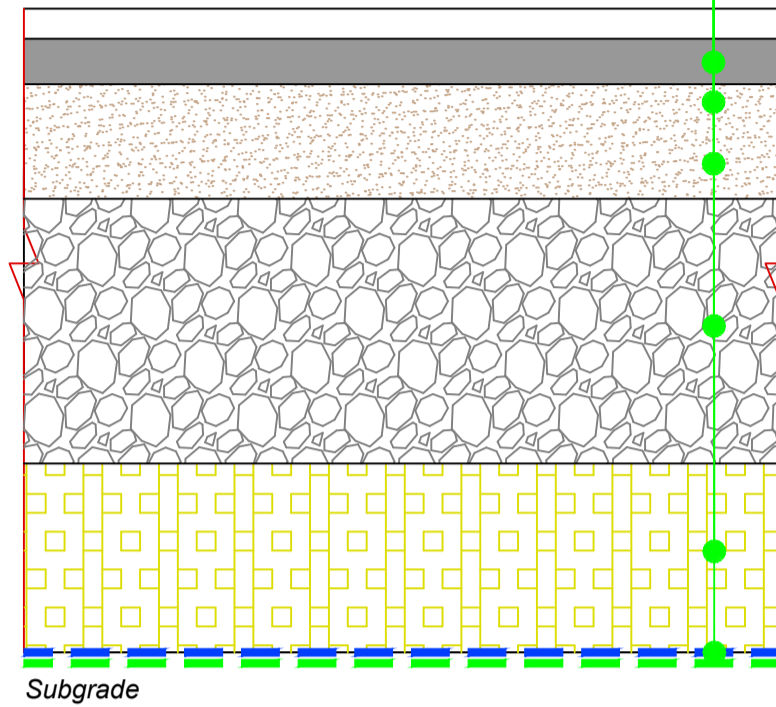
60mm Stone Mastic Asphalt (SMA 6 Bin 40/60) to IS EN 13108-5 and laid in accordance with TII CC-SPW-00900

150mm Asphalt Concrete (AC32 Dense Base 40/60) to IS EN 13108-1 and laid in accordance with TII CC-SPW-00900

250mm Unbound Granular Mixture A (Type A) Sub-Base in accordance with TII CC-SPW-00800

250mm coarse capping layer 6F5 in accordance with TII CC-SPW-00600

Polypropylene non-woven geotextile separator layer with a tensile strength of minimum 8kN/m, under a polypropylene geogrid stabilisation layer with tensile strength of 20kN/m installed according to manufacturer specification



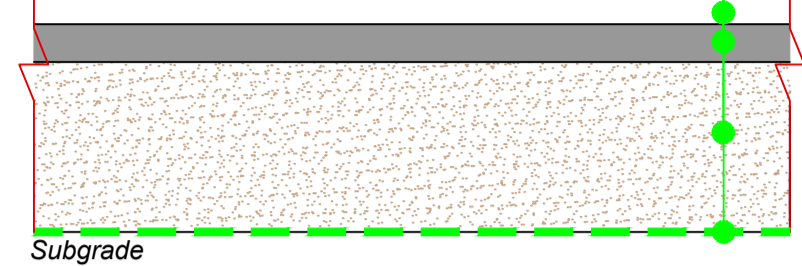
DETAIL 1
VEHICULAR PAVEMENTS - ACCESS ROADS
FORMATION CBR > 2.5%
In-situ CBR required at formation to confirm design
Scale 1:10

40mm Stone Mastic Asphalt 6 SURF 40/60 in accordance with IS EN 13108-5 and laid in accordance with TII CC-SPW-00900

50mm of AC 20 Dense Bin 40/60 base course to IS EN 13108-1 and laid in accordance with TII CC-SPW-00900

225mm Unbound Granular Mixture A (Type A) Sub-Base in accordance with TII CC-SPW-00800

Polypropylene non-woven geotextile separator layer with a tensile strength of minimum 8kN/m installed to manufacturer specification



DETAIL 2
PEDESTRIAN PAVEMENTS - FOOTPATHS
FORMATION CBR > 2.5%
In-situ CBR required at formation to confirm design
Scale 1:10

Contractor to allow for insitu CBR & formation level of proposed pavements. CBR Testing every 20m spacing required along centreline of road. Where road in fill contractor to ensure sufficient compaction achieved prior to CBR testing. Where CBR Testing less than 2.5% contractor to inform the PM / design team.

Paving Slab / Sett Types / Laying patterns / Thickness as per Landscape Specification.

All Paving to be bedded and jointed in accordance with manufacturer guidance and specification.

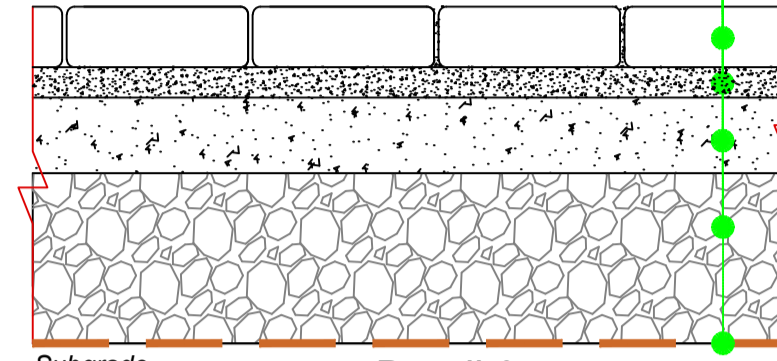
8mm Joint width as in accordance with BS7533-4 Section 5.4.4.4

Laying course to be min 40mm compacted type B Mortar in accordance with BS 7533 and manufacturers specifications

100mm concrete to BS EN 13877-1 Strength Class 32/40 (road base) laid in accordance with the Specification for Highway Works, Volume 1, Series 800 and BS 7533-12 Table B.2

225mm Type 1 Granular Sub-Base material to Highways Agency 'Specification for highway works' specification clause 803

Terram 1000 geotextile installed according to producer specification



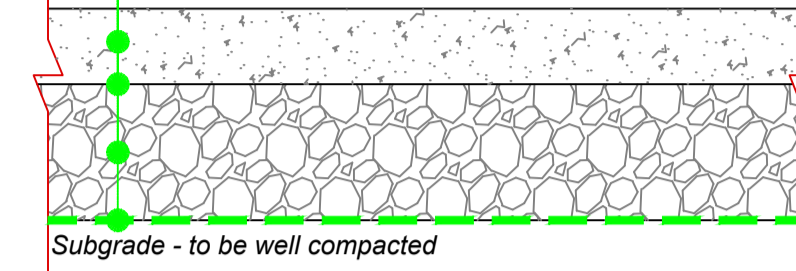
Detail 3
Pedestrian Pavements - Feature Paved Areas
Vehicular Overrun
Formation CBR > 5%
In-situ CBR required at formation to confirm design
Scale 1:10

150mm thick fibre concrete with 4kg/m3 of Enduro HPP 4mm pp fibres and 0.9kg/m3 of Fibermesh 150 12mm pp fibres, and superplasticizer for workability. Laid to falls. Brush finished surface, with 100mm wide towelled edges

125µm thick polyethylene sheet, lapped by 300mm

200mm Unbound Granular Mixture Ac (Type Ac) Sub-Base in accordance with TII CC-SPW-00800

Where CBR is found to be between 2% and 3% or if poor weather adversely affects the top of the surface formation level lay a polypropylene non-woven geotextile separator layer with a tensile strength of minimum 8kN/m



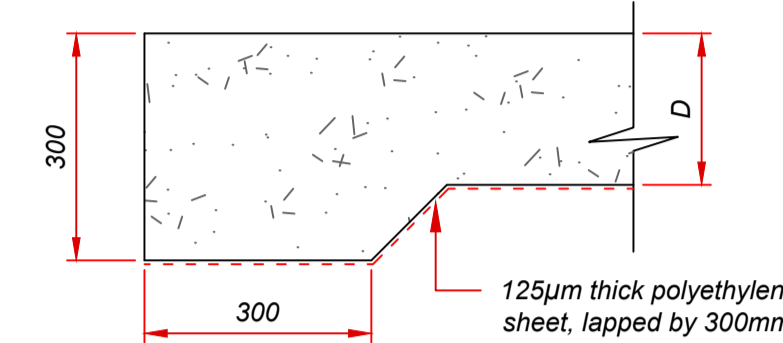
DETAIL CONCRETE HARDSTANDING
DETAIL
Scale 1:10

CONCRETE SURFACING

A C40/50 concrete to C3 consistence, W/C ratio 0.45, to incorporate 4kg/m³ of Enduro HPP45 fibres & Fibermesh 150 at 0.9kg/m³. a superplasticizer is required to provide workability.

- minimum cement content = 340kg/m³
- mix to comply with TII CC-SPW-01000, XF4 exposure class as per IS EN 206-1, with freeze thaw resistant aggregates.

Concrete to be cured with application of a 90% efficient resin based curing compound applied directly after final finish. Due diligence is required when placing concrete in cold weather.



Free edge to have 1 in 3 gradient

D = concrete hardstanding depth by typical detail

CONCRETE HARDSTANDING
FREE EDGE
Scale 1:10

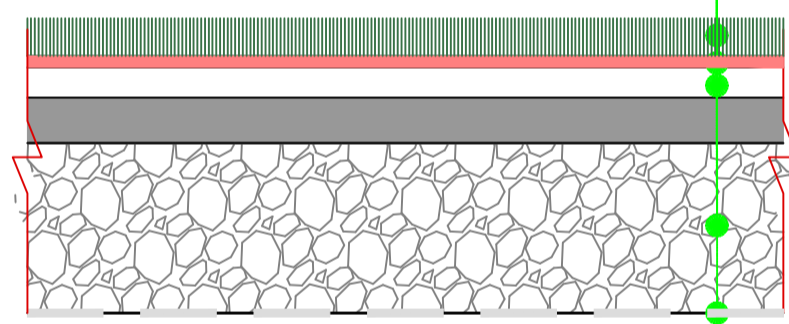
3G Synthetic pitch including Shockpad (In accordance with FIFA 1 star Specification)

25mm of AC 10 Open Surf in accordance with 'SHW'

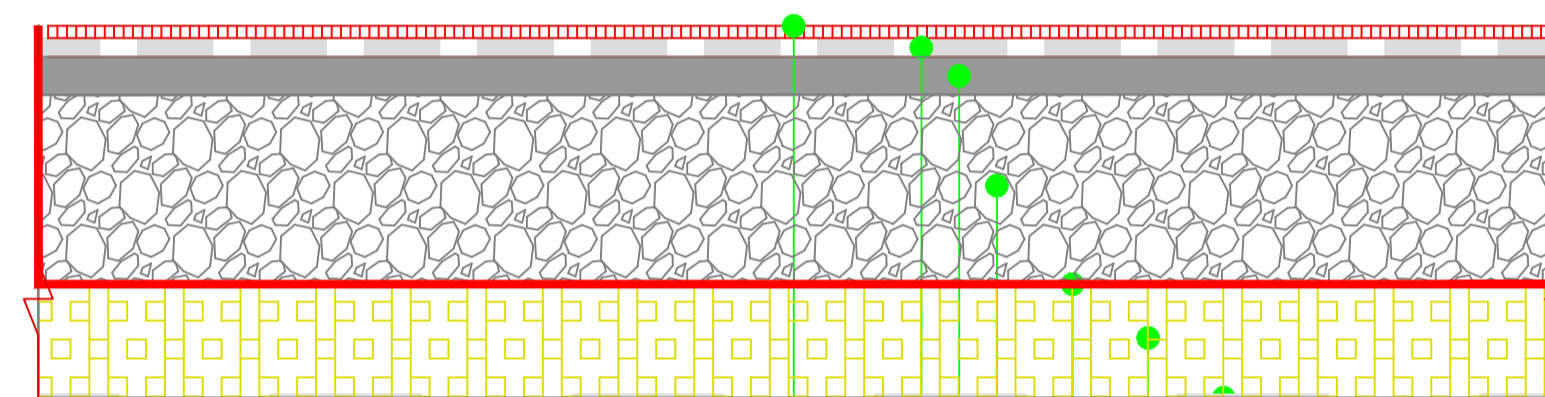
40mm of AC 20 Open Bin binder course in accordance with 'SHW'

225mm Type 3 Granular Sub-Base material to Highways Agency 'Specification for highway works' specification clause 803

Terram 1000 Non-Woven Geotextile Membrane installed according to producer specification



Detail 5
Construction Detail Artificial Grass - 3G Synthetic Pitch
Formation CBR > 5%
In-situ CBR required at formation to confirm design
Scale 1:10



12-15mm Polymeric Multisport 15 Surfacing with MUGA Antislip Coating. See Employer's Requirements for further details. (Red surface)

25mm (6 / 10mm) Porous Asphalt surface course (Note 4)

50mm (30 / 20mm nominal size) Porous Asphalt binder course (Note 4)

250mm Coarse Graded Aggregate (Storage Layer) (Note 5)

Marshalls M380 Tanking Impermeable Membrane (Note 6)

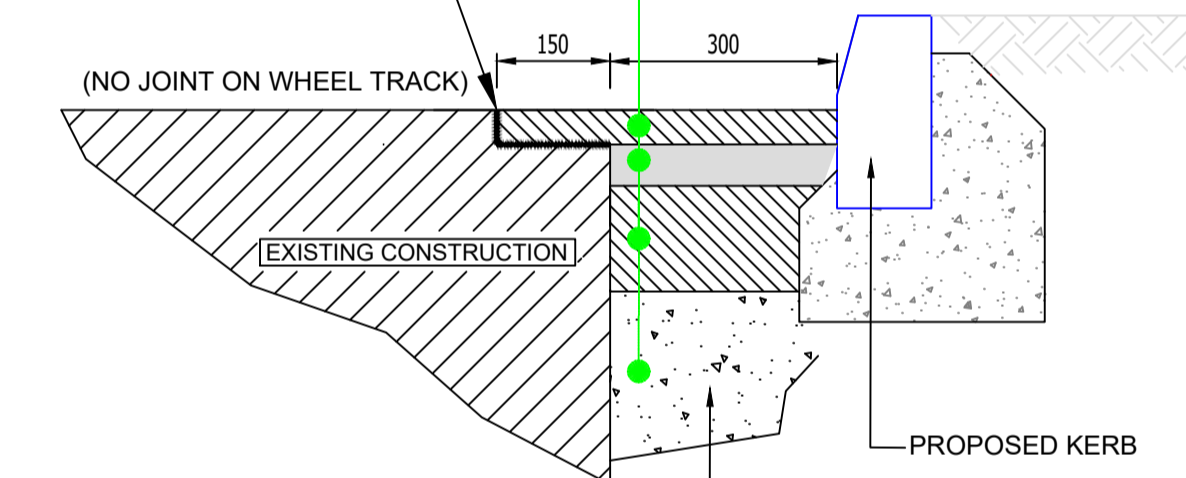
150mm Capping 6F2 (Note 7)

Terram 2000 geotextile installed according to producer specification.

Detail 4
Athletics Track
Scale 1:10

ALL ROAD MARKINGS AFFECTED BY THESE WORKS ARE TO BE REPLACED BY THE CONTRACTOR

TACK COAT IN ACCORDANCE WITH CC-SPW-00900



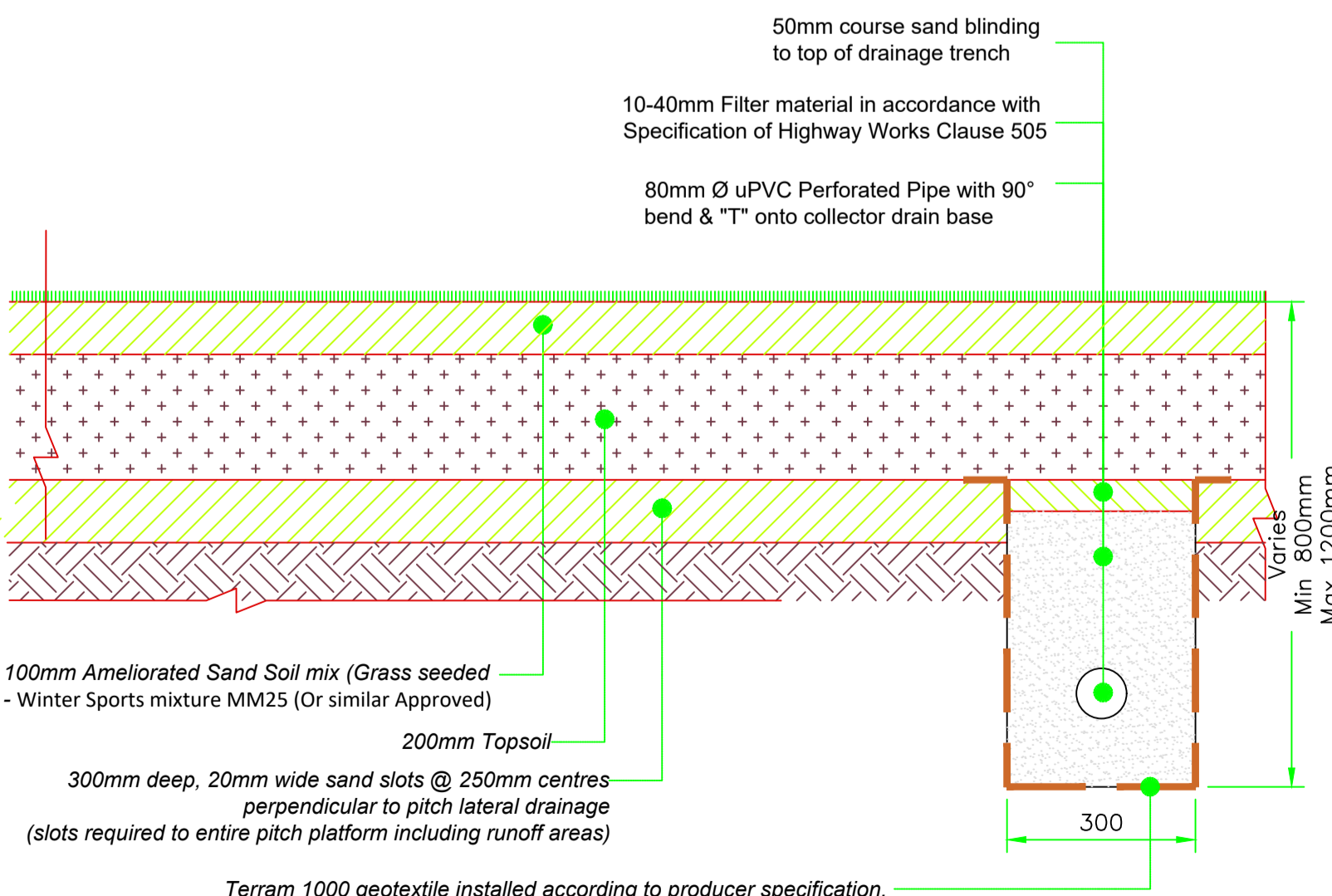
CARRIAGEWAY EDGE REINSTATEMENT DETAIL
WHERE KERB REPLACEMENT NECESSARY
Scale 1:10

40mm Stone Mastic Asphalt (SMA 10 Surf 40/60) surface course to IS EN 13108-5 and laid in accordance with TII CC-SPW-00900

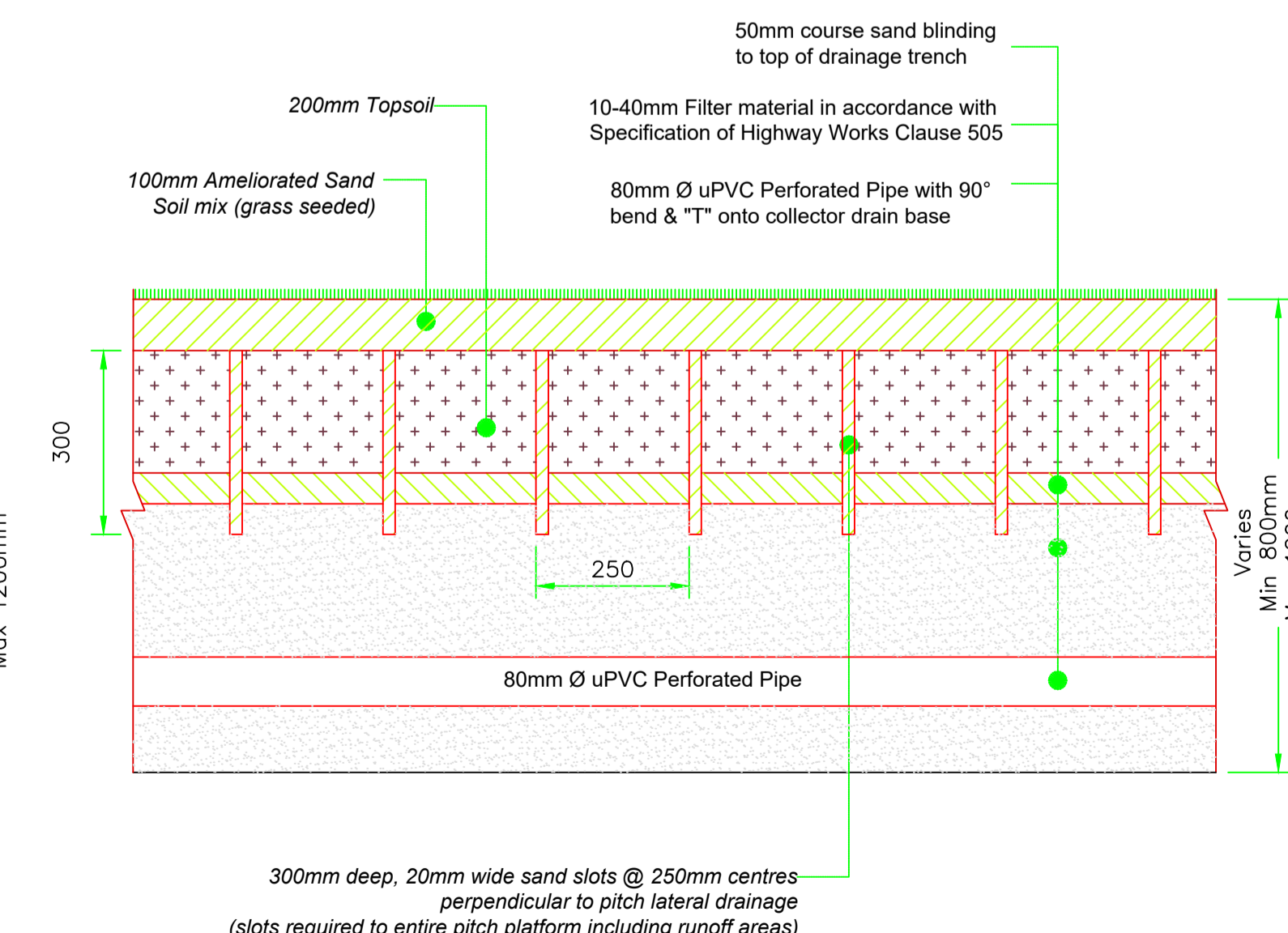
60mm of AC20 dense 40/60 binder course to IS EN 13108-1 and laid in accordance with TII CC-SPW-00900

150mm of AC32 dense base 40/60 to IS EN 13108-1 and laid in accordance with TII CC-SPW-00900

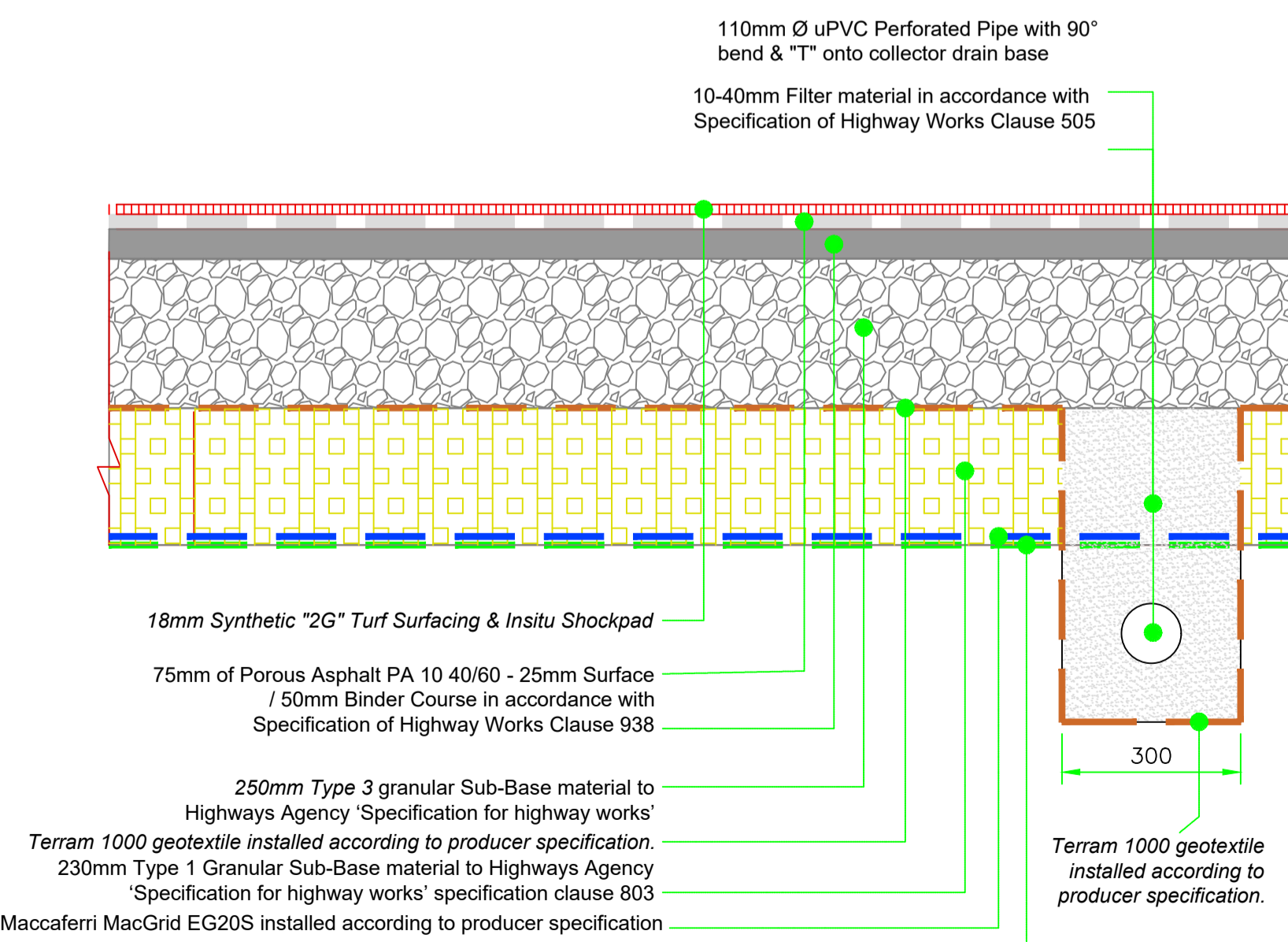
Lean mix concrete fill C20N



Detail 7
Natural Turf Pitch
Scale 1:10



Detail 7
Natural Turf Pitch (Perpendicular to lateral drainage)
Scale 1:10



Detail 6
2G Synthetic Turf Pitch
Scale 1:10

NOTES:

- All dimensions are in millimeters unless stated otherwise. All levels are in meters referenced to AOD.
- This drawing should be read in conjunction with all relevant drawings (Architectural and Engineering).
- All dimensions are in millimeters unless stated otherwise. All levels are in meters referenced to AOD.
- This drawing should be read in conjunction with all relevant drawings (Architectural and Engineering).
- Preparation of formation levels -
 - Any soft spots should be excavated first and back-filled with suitable well-compacted Class 6F2 granular material in accordance with TII CC-SPW-00600. Where a membrane is to be installed the fill or capping layer must be blinded with fine material to protect the membrane.
 - The subgrade, or original ground formation, should be prepared by stripping all vegetation and topsoil, trimming to level (at least 75mm deep) and compacting. In accordance with the 'Specification for Road Works' CC-SPW-00600 Clause 6.16, to a tolerance within +20mm to -30mm. California Bearing Ratios must be checked on site by completion of in-situ CBR tests prior to construction as redesign of pavement reinstatement may be necessary.
 - Any filling should be carried out in layers not exceeding 150mm thickness, with each layer compacted before the next spread.
 - The prepared formation shall be treated with a total weed-killer selected to minimise the risk of future weed growth within the construction.
- This drawing indicates reinstatement depths for all pavements within the proposed site. The drawing should be read in conjunction with all respective Proposed Layout Drawings.
- Should there be any discrepancy between details indicated on this drawing and those indicated on any Architect drawings this should be highlighted prior to construction.
- If precast units are used, internal dimensions shown/specified may be varied to suit manufacturer's dimensions provided minimum dimensions are maintained.
- All details illustrated are to be constructed in accordance with manufacturers specifications/ guidelines.
- The Contractor shall confirm on site, the position and level of existing infrastructure including existing services prior to commencing any work.
- Any significant difference in line and level that will affect the overall design shall be referred to the Project Manager at the earliest opportunity.
- The Pavements Designs are based on the Specification for Road Works CC-SPW-00700, 00800 & 00900
- No Allowance has been made for Construction Traffic. Contractor to ensure pavement structure not affected by Construction Traffic unless otherwise indicated.
- All Pavement Construction Material Within 450mm of the Surface to be Non Frost Susceptible
- Coarse Graded Aggregate (Storage Layer)
To comply with IS EN 13242 - 'Aggregates for unbound and hydraulically bound materials for use in civil engineering work and construction', 4-20mm particle size coarse aggregate. Crushed and naturally occurring rounded gravels will not be suitable. Material to be washed free of fines

Rev	Issue Date	Description	App
Status PLANNING			
Client Cavan County Council			
Project Cavan Regional Sports Campus			
Drawing Construction Details - Pavement Buildups			
Scale As Shown @ A1			
Contact Details		T: 028 9040 2000	
1c Montgomery House		478 Castlereagh Road	
Belfast, BT5 6BQ		www.mcadamdesign.co.uk	
Drawn	PC	Checked	PA
Date	14/02/2024	Date	14/02/2024
Project - Organisation - Zone - Level - Type - Role - Number - Revision		Approved PA	
CRSP - MCA - 00 - 00 - DR - C - 3001 - P1		Date	
Project Number		Status code & Description	
A2156		S4	

All dimensions are in metres. Figured dimensions to be taken in preference to scale dimensions. Dimensions to be checked on site. © 2021 McAdam Design Ltd.