STANDARD PAVEMENT SUBSURFACE DRAINAGE DETAILS

VOLUME 2 - GRANULAR PAVEMENT WITH BITUMINOUS SURFACING DETAILS

related drawings:
VOLUME 1 - DESIGN AND LOCATION
VOLUME 3 - FULL DEPTH ASPHALT PAVEMENT DETAILS
VOLUME 4 - ASPHALT OVER BOUND SUBBASE PAVEMENT DETAILS
VOLUME 5 - RIGID PAVEMENT DETAILS
VOLUME 6 - SUPPLEMENTARY MODEL DRAWINGS
REVISION REGISTER

<table>
<thead>
<tr>
<th>ED/REV</th>
<th>SHEET</th>
<th>ISSUE DETAIL</th>
<th>AUTHORISED</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/0</td>
<td>ALL</td>
<td>COMPLETE REVISION</td>
<td>PRP&amp;GE*</td>
<td>28.10.2010</td>
</tr>
<tr>
<td>3/1</td>
<td>ALL</td>
<td>MINOR REVISION</td>
<td>PRP&amp;GE*</td>
<td>15.04.2011</td>
</tr>
<tr>
<td>3/2</td>
<td>ALL</td>
<td>MINOR REVISION</td>
<td>PRP&amp;GE*</td>
<td>16/08/2012</td>
</tr>
</tbody>
</table>

INDEX

<table>
<thead>
<tr>
<th>DETAIL</th>
<th>SHEET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>01</td>
<td>COVER SHEET</td>
</tr>
<tr>
<td>-</td>
<td>02</td>
<td>REVISION REGISTER AND INDEX</td>
</tr>
<tr>
<td>PTG</td>
<td>03</td>
<td>Unbound Granular Pavement Structure</td>
</tr>
<tr>
<td>A01-G</td>
<td>04</td>
<td>Trench Drain and Drainage Layer under Low 'SO' Kerb</td>
</tr>
<tr>
<td>A02-G</td>
<td>04</td>
<td>Narrow Median between Normal Crossfall Pavements with Drainage Layer</td>
</tr>
<tr>
<td>A03-G</td>
<td>04</td>
<td>Drainage Layer under High Pavement Edge (Possible Trench Drain)</td>
</tr>
<tr>
<td>A04-G</td>
<td>04</td>
<td>Trench Drain and Drainage Layer under Low Pavement Edge</td>
</tr>
<tr>
<td>A05-G</td>
<td>05</td>
<td>Trench Drain and Drainage Layer under High 'SO' Kerb</td>
</tr>
<tr>
<td>A06-G</td>
<td>05</td>
<td>Trench Drain under Low 'SO' Kerb No Drainage Layer</td>
</tr>
<tr>
<td>A07-G</td>
<td>05</td>
<td>High Pavement Edge No Drainage Layer (Possible Trench Drain)</td>
</tr>
<tr>
<td>A08-G</td>
<td>05</td>
<td>Trench Drain under Low Pavement Edge No Drainage Layer</td>
</tr>
<tr>
<td>A09-G</td>
<td>06</td>
<td>Trench Drain under Low 'SO' Kerb with Guard Fence No Drainage Layer</td>
</tr>
<tr>
<td>A10-G</td>
<td>06</td>
<td>Narrow Median between Normal Crossfall Pavements No Drainage Layer</td>
</tr>
<tr>
<td>A11-G</td>
<td>06</td>
<td>Trench Drain under Low 'SA' Kerb No Drainage Layer</td>
</tr>
<tr>
<td>A12-G</td>
<td>06</td>
<td>Normal Median between Superelevated Pavements No Drainage Layer</td>
</tr>
<tr>
<td>A13-G</td>
<td>07</td>
<td>Trench Drain under Low 'SO' Kerb No Drainage Layer</td>
</tr>
<tr>
<td>A14-G</td>
<td>07</td>
<td>Trench Drain under High 'SA' Kerb No Drainage Layer</td>
</tr>
</tbody>
</table>

* DENOTES PRINCIPAL ROAD PAVEMENT AND GEOFTECHNICAL ENGINEER
STANDARD PTG STRUCTURE

DESIGN:
1. LAYER THICKNESSES DETERMINED BY PAVEMENT DESIGN.
2. PAVEMENT SUBSURFACE DRAINS TO BE DESIGNED IN ACCORDANCE WITH THESE DRAWINGS AND RMS SPECIFICATIONS.
3. WHERE A SPRAYED SEAL IS APPLIED TO THE TOP OF SELECTED MATERIAL ZONE PRIOR TO RMS SPECIFICATIONS.

DRAINAGE LAYER:
1. DRAINAGE LAYER TO BE PROVIDED IN ROCK CUTTINGS AND WET SOIL CUTTINGS (R44).
2. WHERE DRAINAGE LAYER PROVIDED IN WET SOIL CUTTINGS THE SUBGRADE MAY REQUIRE STABILISATION TO REDUCE ITS MOISTURE SUSCEPTIBILITY.

NOTES

- WHERE DRAINAGE LAYER PROVIDED IN ROCK CUTTINGS AND WET SOIL CUTTINGS (R44).
- WHERE DRAINAGE LAYER PROVIDED IN WET SOIL CUTTINGS THE SUBGRADE MAY REQUIRE STABILISATION TO REDUCE ITS MOISTURE SUSCEPTIBILITY.

Wearing Surface
(Thin Asphalt or Sprayed Seal)

Unbound Base Material

Subbase Material

300mm (min) Selected Material

Possible Drainage Layer

Subgrade

7mm sprayed seal

UNBOUND GRANULAR PAVEMENT STRUCTURE

DETAIL PTG

NOT TO SCALE

Table:

<table>
<thead>
<tr>
<th>Layer</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wearing Surface (Thin Asphalt or Sprayed Seal)</td>
</tr>
<tr>
<td></td>
<td>Unbound Base Material</td>
</tr>
<tr>
<td></td>
<td>Subbase Material</td>
</tr>
<tr>
<td></td>
<td>300mm (min) Selected Material</td>
</tr>
<tr>
<td></td>
<td>Possible Drainage Layer</td>
</tr>
<tr>
<td></td>
<td>Subgrade</td>
</tr>
</tbody>
</table>

NOTES:

- WHERE DRAINAGE LAYER PROVIDED IN ROCK CUTTINGS AND WET SOIL CUTTINGS (R44).
- WHERE DRAINAGE LAYER PROVIDED IN WET SOIL CUTTINGS THE SUBGRADE MAY REQUIRE STABILISATION TO REDUCE ITS MOISTURE SUSCEPTIBILITY.
TRENCH DRAIN AND DRAINAGE LAYER UNDER LOW 'SO' KERB
DETAIL A01-G
NOT TO SCALE

DRAINAGE LAYER UNDER HIGH PAVEMENT EDGE (POSSIBLE TRENCH DRAIN)
DETAIL A03-G
NOT TO SCALE

TRENCH DRAIN AND DRAINAGE LAYER UNDER LOW PAVEMENT EDGE
DETAIL A04-G
NOT TO SCALE

NARROW MEDIAN BETWEEN NORMAL CROSSFALL PAVEMENTS WITH DRAINAGE LAYER
DETAIL A02-G
NOT TO SCALE

NOTES
1. DETAILS OF WORK OTHER THAN SUBSURFACE DRAINAGE ARE DEPICTED AS TYPICAL SITUATION ONLY AND ARE NOT APPROPRIATE FOR ALL PROJECTS.
2. ALL DIMENSIONS IN MILLIMETRES UNLESS SHOWN OTHERWISE.

TABLE:

- **FILE PATH:** PAV_BLACK_GREY.tbl
- **FILE NAME:** PAV_PDF.plt
- **PRINTED BY:** G. Vorobeiff
- **DATE:** 16/08/2012
- **ISSUE:** ED3 REV 2
- **VOLUME:** 2
- **NO. OF SHEETS:** 07
- **REGISTRATION NUMBER:** 0000.000.PT.0010
- **STANDARD PAVEMENT SUBSURFACE DRAINAGE DETAILS:** GRANULAR PAVEMENT WITH BITUMINOUS SURFACING DETAILS
- **STANDARD PTG DETAILS:**
TRENCH DRAIN DETAILS TO BE DESIGNED IN ACCORDANCE WITH TABLE 1 VOLUME 1.

AS TYPICAL SITUATION ONLY AND ARE NOT APPROPRIATE FOR ALL PROJECTS.

DETAILS OF WORK OTHER THAN SUBSURFACE DRAINAGE ARE DEPICTED

1. PROVIDE TRENCH DRAIN ON HIGH SIDE OF PAVEMENT WHERE ADJACENT DEPRESSED MEDIAN DRAIN INVERT IS ABOVE THE BASE OF THE SELECTED MATERIAL ZONE AND LONGITUDINAL GRADE OF DEPRESSED MEDIAN IS LESS THAN 2%. 

2. TRENCH DRAIN DETAILS TO BE DESIGNED IN ACCORDANCE WITH TABLE 1 VOLUME 1.

3. ALL DIMENSIONS IN MILLIMETRES UNLESS SHOWN OTHERWISE.
3. Trench drain details to be designed in accordance with Table 1 Volume 1.

2. As typical situation only and are not appropriate for all projects.

Details of work other than subsurface drainage are depicted.

NOTES

1. Details of work other than subsurface drainage are depicted as typical situation only and are not appropriate for all projects.

2. Trench drain details to be designed in accordance with Table 1 Volume 1.

3. All dimensions in millimetres unless shown otherwise.
NOTES

1. DETAILS OF WORK OTHER THAN SUBSURFACE DRAINAGE ARE DEPICTED AS TYPICAL SITUATION ONLY AND ARE NOT APPROPRIATE FOR ALL PROJECTS.
2. TRENCH DRAIN DETAILS TO BE DESIGNED IN ACCORDANCE WITH TABLE 1 VOLUME 1.
3. ALL DIMENSIONS IN MILLIMETRES UNLESS SHOWN OTHERWISE.

TRENCH DRAIN UNDER LOW 'SO' KERB NO DRAINAGE LAYER

DETAIL A13-G

TRENCH DRAIN UNDER HIGH 'SA' KERB NO DRAINAGE LAYER

DETAIL A14-G

NOT TO SCALE