DIVIDED ROADWAYS

UNDIVIDED ROADWAY

SYMBOL       SOIL       CLASSIFICATION (AASHTO M 145)
S             Select      A-1, A-3, A-2-4
M             High Plastic A-6-5, A-6-7, A-5 (A-7 ALL WITH LL< 50)
             Muck         S, P, H

Classification listed left to right in order of preference.

** See General Notes Nos. 4 & 5 for utilization of soils classified as organic material or mix.

** Certain types of A-2-4 material are likely to retain excess moisture and may be difficult to dry and compact. They should be used in the subembankment above the existing water level existing at time of construction. They may be used in the subgrade portion of the roadbed when approved by the District Materials Engineer. A-2-4 material placed below the existing water level must be compacted sufficiently to sustain a drivable surface for operational vehicles as approved by the Engineer.

** For cut sections this dimension may be reduced to 24", see Index No. 500.

For minor collectors and local facilities this dimension may be reduced to 18".

For cut sections this dimension may be reduced to 24"; see Index No. 500.

GENERAL NOTES

1. Roadway dimensions are representative. Subgrade dimensions and control lines are standard. The details shown on this index do not supersede the details shown in the plans or on index Nos. 300 or 506.

2. Plastic (P) soils may be placed above the existing water level (at the time of construction) to within 4 feet of the proposed grade. It must be placed uniformly in the lower portion of the embankment for some distance along the project rather than full depth for short distances.

3. High Plastic (P) soils excavated within the project limits may be used in embankment construction as indicated on this index. High Plastic soils are not to be used for embankment construction when obtained from outside the project limits.

4. Select (S) soils having an average organic content of more than two and one-half (2.5) percent, or having an individual test value which exceeds four (4) percent, shall not be used in the subgrade portion of the roadway.

5. Highly organic soils, composed primarily of partially decayed organic matter, often dark brown or black in color with an odor of decay, and sometimes fibrous, shall be designated as muck. Further, any deposit of soil which contains pockets of highly organic material may be designated as Muck (M).

DESIGN NOTES

1. The designer shall take into consideration the expectancy of roadway widening to the outside, and where widening is anticipated, specify on the plans the location of the pavement widening control line. The location of the proposed control line, unless otherwise specified in the plans, provided they can be used in the subgrade portion of the roadbed, the subgrade portion of the embankment, and/or soils classified as organic material in the embankment.

2. The designer shall take into consideration the position of the drainage swales in the portion of the roadway widening. The position of the drainage swales, where Plastic (P), High Plastic (P), or soils classified as organic material would be allowed, shall be designated as indicated on this index. High Plastic soils are not to be used for embankment construction when obtained from outside the project limits.

3. The designer shall take into consideration the expectancy of roadway widening to the outside, and where widening is anticipated, specify on the plans the location of the pavement widening control line. The location of the proposed control line, unless otherwise specified in the plans, provided they can be used in the subgrade portion of the roadbed, the subgrade portion of the embankment, and/or soils classified as organic material in the embankment.

4. The designer shall take into consideration the position of the drainage swales in the portion of the roadway widening. The position of the drainage swales, where Plastic (P), High Plastic (P), or soils classified as organic material would be allowed, shall be designated as indicated on this index. High Plastic soils are not to be used for embankment construction when obtained from outside the project limits.

5. Highly organic soils, composed primarily of partially decayed organic matter, often dark brown or black in color with an odor of decay, and sometimes fibrous, shall be designated as muck. Further, any deposit of soil which contains pockets of highly organic material may be designated as Muck (M).

6. Highly organic soils shall not be used within the subgrade or embankment portion of the roadbed, with the exception of muck used as a supplement to construct a finish soil layer as described in Section 162 of the FDOT Standard Specifications.

7. Select (S), Plastic (P), or High Plastic (P) soils having an average organic content of more than two and one-half (2.5) percent, or having an individual test value which exceeds four (4) percent, shall not be used in the subgrade portion of the roadway.

8. Select (S), Plastic (P), or High Plastic (P) soils having an average organic content of more than two and one-half (2.5) percent, or having an individual test value which exceeds four (4) percent, shall not be used in the subgrade portion of the roadway.

9. Select (S), Plastic (P), or High Plastic (P) soils having an average organic content of more than two and one-half (2.5) percent, or having an individual test value which exceeds four (4) percent, shall not be used in the subgrade portion of the roadway.

10. Highly organic soils shall not be used within the subgrade or embankment portion of the roadbed, with the exception of muck used as a supplement to construct a finish soil layer as described in Section 162 of the FDOT Standard Specifications.
**DIVIDED ROADWAYS**

1. Concrete pavement is to be placed over 4" of Asphalt Treated Permeable Base (ATPB) or Cement Treated Permeable Base (CTPB) as identified in the plans. This will be placed on an aggregate separator layer using 1" Type SP. This will be placed on a working platform using 2" of Type B Stabilization.

**UNDIVIDED ROADWAY**

**Classification (AASHTO M 145)**

- **S**: Select
- **P**: Plastic
- **H**: High Plastic
- **M**: Muck

Classification listed left to right in order of preference.

- Specific types of A-2-4 material are likely to retain excess moisture and may be difficult to dry and compact. They should be used in the embankment above the water level existing at the time of construction. They may be used in the subgrade portion of the roadbed when approved by the District Materials Engineer. A-2-4 material placed below the existing water level must be nonplastic and contain less than 15% passing the No. 200 U.S. Standard sieve.

- For minor collectors and local facilities, this dimension may be reduced to 24", see Index No. 500.

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**RIGID PAVEMENT - TREATED PERMEABLE BASE OPTION**

EMBANKMENT UTILIZATION
**SYMBOL**  
**SOIL**  
**CLASSIFICATION (AASHTO W-65)**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Soil</th>
<th>Classification (AASHTO W-65)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Select</td>
<td>A-1, A-3, A-2-4 ***</td>
</tr>
<tr>
<td>S+</td>
<td>Special Select</td>
<td>A-3 *** with Minimum Average Lab Permeability of 5 x 10^-5 cm/sec (0.14 ft./day) as per FM 1-T205</td>
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<tr>
<td>P</td>
<td>Plastic</td>
<td>A-2-5, A-2-6, A-2-7, A-2-8, A-3-6, A-3-7 (ALL WITH LL &gt; 50)</td>
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<tr>
<td>N</td>
<td>N-20% Plastic</td>
<td>A-2-2-5, A-2-2-7, A-2-2-8 (ALL WITH LL &gt; 50)</td>
</tr>
<tr>
<td>M</td>
<td>M-20% Plastic</td>
<td>A-2-2-2</td>
</tr>
</tbody>
</table>

Classification listed left to right in order of preference.

* See General Notes Nos. 4 & 5 for utilization of soils classified as organic material or muck.

**Note:** SPECIAL SELECT SOIL OPTION may be used only when approved in writing by the District Materials Engineer and shown in the plans.

Certain types of A-2-4 material are likely to retain excess moisture and may be difficult to dry and compact. They should be used in the embankment above the water level existing at time of construction. A-2-4 material placed below the existing water level must be nonplastic and contain less than 15% passing the No. 200 U.S. Standard sieve.

When allowed by the plans, some types of A-2-4 material may be approved in writing by the District Materials Engineer. This material must meet the minimum lab permeability requirement, be nonplastic, and not exceed 2% passing the No. 200 U.S. Standard sieve.

* 3" of FND or *11" Course Aggregate Mixed Into Top 6".

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RIGID PAVEMENT - SPECIAL SELECT SOIL OPTION

EMBANKMENT UTILIZATION

2008 FDOT Design Standards