

Vienna Pavement Design Guide

Original 2015-01-15

Final Pavement Sections in the Town of Vienna for new roads shall be built in accordance with the latest VDOT Pavement Design Guide and Fairfax County Public Facilities Manual using field run CBR values. Pavement sections for preliminary purposes only can be established using a CBR value of ten (10). Final pavement design using field run CBR values shall be submitted to Vienna Department of Public Works for review and approval.

Pavement sections provided in this guide are for existing road rebuild only and are based on the VDOT Pavement Design Guide using the Vaswani method. Roads not specified on this list shall have its pavement design evaluated prior to any new construction. Under drains shall be provided for all roads with greater than or equal to 1000 VPD if CTA is not used for the subbase.

Pavement Section - A 14,000 – 10,001 VPD

Surface (SM-9.5A) - 1.5"
Inter (IM-19.0) – 3.0"
Base (BM-25.0) – 4.0"
Subbase (21-A) – 10.0"
Under drains

Or

Surface (SM-9.5A) - 1.5"
Inter (IM-19.0) – 2.0"
Base (BM-25.0) – 4.0"
Subbase (CTA) – 6.0"

Beulah
Lawyers
Park St. SE

Pavement Section - B
10,000 – 4001 VPD

Surface (SM-9.5A) - 1.5"
Inter (IM-19.0) – 3.0"
Base (BM-25.0) – 4.0"
Subbase (21-A) – 8.0"
Under drains

Or

Surface (SM-9.5A) – 1.0"
Inter (IM-19.0) – 2.0"
Base (BM-25.0) – 4.0"
Subbase (CTA) – 6.0"

Follin Lane
Tappawingo
Center South
Locust
Old Courthouse
Cottage
Courthouse
Malcolm
Church
Nutley NW
McKinely NE

Pavement Section - C
4000-801 VPD

Surface (SM-9.5A) - 1.5"
Inter (IM-19.0) - 2.5"
Base (BM-25.0) - 4.0"
Subbase (21-A) – 6.0"
Under drains

Or

Surface (SM-9.5A) - 1.5"
Base (BM-25.0) - 4.0"
Subbase (CTA) – 6.0"

Branch
Echols
Mill Street
Ayr Hill
Center North
Dominion Road NE
East St.
Adahi SE
Glyndon NE
Park NE
Creek Crossing NE
Windover NW
Marshall SW
Kingsley SW
Branch SE

Pavement Section - D
=<800 VPD

Surface (SM-9.5A) - 1.5"

Base (BM-25.0) - 4.0"

Subbase (21-A) – 6.0"

All dead ends and Cul-De-Sacs

St Andrews NE

Tazwell NW

John Marshall NE

Macarthur NE

West NW

John Marshall NW

Blair NW

Holmes NW

Oak SW

Meadow SW

East SE

Kramer SE

Berry SE

Aponi SE

Adahi SE