

Table K2. - Soil Features

Frederick County, Virginia

Absence of an entry indicates that the feature is not a concern or that data were not estimated.

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1B: Berks	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	Low	Low	High
1C: Berks	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	Low	Low	High
2: Birdsboro	---	---	---	---	0	---	Moderate	Moderate	High
3B: Blairton	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	High	High	High
3C: Blairton	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	High	High	High
4B: Buchanan	Fragipan	20-30	---	Weakly cemented	0	---	Moderate	High	High
4C: Buchanan	Fragipan	20-30	---	Weakly cemented	0	---	Moderate	High	High
5B: Carbo	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	High	Low

5C:

Table K2. - Soil Features - Continued

Frederick County, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
5C: Carbo	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	High	Low
6C: Carbo	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	High	Low
Oaklet	---	---	---	---	0	---	Moderate	High	Moderate
Rock outcrop	---	---	---	---	---	---	---	---	---
7C: Carbo	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	High	Low
Oaklet	---	---	---	---	0	---	Moderate	High	Moderate
Rock outcrop	Bedrock (lithic)	0	---	Indurated	0	---	---	---	---
8B: Chilhowie	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	High	Low
8C: Chilhowie	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	High	Low
9B:									

Table K2. - Soil Features - Continued

Frederick County, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
9B: Clearbrook	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	Moderate	High	Moderate
9C: Clearbrook	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	Moderate	High	Moderate
10: Craigsville	---	---	---	---	0	---	Moderate	Low	Moderate
11C: DeKalb	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Low	High
12E: DeKalb	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Low	High
13B: Frankstown	---	---	---	---	0	---	Moderate	Moderate	Moderate
13C: Frankstown	---	---	---	---	0	---	Moderate	Moderate	Moderate
13D: Frankstown	---	---	---	---	0	---	Moderate	Moderate	Moderate
13E:									

Table K2. - Soil Features - Continued

Frederick County, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
13E: Frankstown	---	---	---	---	0	---	Moderate	Moderate	Moderate
14B: Frederick	---	---	---	---	0	---	Moderate	Moderate	High
Poplimento	---	---	---	---	0	---	Moderate	High	Moderate
14C: Frederick	---	---	---	---	0	---	Moderate	Moderate	High
Poplimento	---	---	---	---	0	---	Moderate	High	Moderate
14D: Frederick	---	---	---	---	0	---	Moderate	Moderate	High
Poplimento	---	---	---	---	0	---	Moderate	High	Moderate
15C: Frederick	---	---	---	---	0	---	Moderate	Moderate	High
Poplimento	---	---	---	---	0	---	Moderate	High	Moderate
15D:									

Table K2. - Soil Features - Continued

Frederick County, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
15D: Frederick	---	---	---	---	0	---	Moderate	Moderate	High
Poplimento	---	---	---	---	0	---	Moderate	High	Moderate
15E: Frederick	---	---	---	---	0	---	Moderate	Moderate	High
Poplimento	---	---	---	---	0	---	Moderate	High	Moderate
16B: Frederick	---	---	---	---	0	---	Moderate	Moderate	High
Poplimento	---	---	---	---	0	---	Moderate	High	Moderate
Rock outcrop	---	---	---	---	---	---	---	---	---
16C: Frederick	---	---	---	---	0	---	Moderate	Moderate	High
Poplimento	---	---	---	---	0	---	Moderate	High	Moderate
Rock outcrop	---	---	---	---	---	---	---	---	---

16D:

Table K2. - Soil Features - Continued

Frederick County, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
16D:									
Frederick	---	---	---	---	0	---	Moderate	Moderate	High
Poplimento	---	---	---	---	0	---	Moderate	High	Moderate
Rock outcrop	---	---	---	---	---	---	---	---	---
17C:									
Frederick	---	---	---	---	0	---	Moderate	Moderate	High
Poplimento	---	---	---	---	0	---	Moderate	High	Moderate
Rock outcrop	Bedrock (lithic)	0	---	Indurated	0	---	---	---	---
17E:									
Frederick	---	---	---	---	0	---	Moderate	Moderate	High
Poplimento	---	---	---	---	0	---	Moderate	High	Moderate
Rock outcrop	Bedrock (lithic)	0	---	Indurated	0	---	---	---	---
18B:									
Gainesboro	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate

Table K2. - Soil Features - Continued

Frederick County, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
18B: Lehew	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Low	High
18C: Gainesboro	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Lehew	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Low	High
18D: Gainesboro	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Lehew	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Low	High
18E: Gainesboro	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Lehew	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Low	High
19C: Gilpin	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	Moderate	Low	High
20B: Guernsey	Bedrock (paralithic)	50-80	---	Strongly cemented	0	---	High	High	Moderate
20C:									

Table K2. - Soil Features - Continued

Frederick County, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
20C: Guernsey	Bedrock (paralithic)	50-80	---	Strongly cemented	0	---	High	High	Moderate
21C: Hayter	Bedrock (lithic)	48-79	---	Indurated	0	---	Moderate	Moderate	Moderate
21D: Hayter	Bedrock (lithic)	48-79	---	Indurated	0	---	Moderate	Moderate	Moderate
22C: Hayter	Bedrock (lithic)	48-79	---	Indurated	0	---	Moderate	Moderate	Moderate
22D: Hayter	Bedrock (lithic)	48-79	---	Indurated	0	---	Moderate	Moderate	Moderate
22E: Hayter	Bedrock (lithic)	48-79	---	Indurated	0	---	Moderate	Moderate	Moderate
23C: Hazleton	Bedrock (lithic)	50-79	---	Indurated	0	---	Moderate	Low	High
23D: Hazleton	Bedrock (lithic)	50-79	---	Indurated	0	---	Moderate	Low	High
23E:									

Table K2. - Soil Features - Continued

Frederick County, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top In	Thickness In	Hardness	Initial In	Total In		Uncoated Steel	Concrete
23E: Hazleton	Bedrock (lithic)	50-79	---	Indurated	0	---	Moderate	Low	High
24E: Hazleton	Bedrock (lithic)	50-79	---	Indurated	0	---	Moderate	Low	High
25C: Laidig	Fragipan	30-50	---	Weakly cemented	0	---	Moderate	Moderate	High
25D: Laidig	Fragipan	30-50	---	Weakly cemented	0	---	Moderate	Moderate	High
25E: Laidig	Fragipan	30-50	---	Weakly cemented	0	---	Moderate	Moderate	High
26C: Lehew	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Low	High
26D: Lehew	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Low	High
26E: Lehew	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Low	High
27:									

Table K2. - Soil Features - Continued

Frederick County, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
27: Library	Bedrock (lithic)	40-60	---	Indurated	0	---	High	High	Moderate
28: Lobdell	---	---	---	---	0	---	High	Low	Moderate
29: Massanetta	---	---	---	---	0	---	Moderate	Low	Low
30B: Monongahela	Fragipan	17-24	---	Weakly cemented	0	---	Moderate	High	High
	Bedrock (lithic)	40-60	---	Indurated					
31B: Nicholson	Fragipan	16-30	---	Weakly cemented	0	---	---	High	Moderate
32B: Oaklet	---	---	---	---	0	---	Moderate	High	Moderate
32C: Oaklet	---	---	---	---	0	---	Moderate	High	Moderate
33C: Opequon	Bedrock (lithic)	12-20	---	Indurated	0	---	Moderate	Moderate	Low

Table K2. - Soil Features - Continued

Frederick County, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
33C:									
Chilhowie	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	High	Low
Rock outcrop	---	---	---	---	---	---	---	---	---
33E:									
Opequon	Bedrock (lithic)	12-20	---	Indurated	0	---	Moderate	Moderate	Low
Chilhowie	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	High	Low
Rock outcrop	---	---	---	---	---	---	---	---	---
34:									
Pagebrook	---	---	---	---	0	---	Moderate	High	Moderate
35:									
Pagebrook	---	---	---	---	0	---	Moderate	High	Moderate
36:									
Pits	---	---	---	---	0	---	---	---	---
37D:									
Schaffemaker	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Low	High
37E:									

Table K2. - Soil Features - Continued

Frederick County, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
37E: Schaffemaker	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Low	High
38B: Sequoia	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	---	High	Moderate
	Bedrock (lithic)	40-79	---	Indurated					
38C: Sequoia	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	---	High	Moderate
	Bedrock (lithic)	40-79	---	Indurated					
38D: Sequoia	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	---	High	Moderate
	Bedrock (lithic)	40-79	---	Indurated					
39B: Swimley	---	---	---	---	0	---	Moderate	High	Moderate
39C: Swimley	---	---	---	---	0	---	Moderate	High	Moderate
40B: Timberville	---	---	---	---	0	---	Moderate	Low	High

Table K2. - Soil Features - Continued

Frederick County, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top In	Thickness In	Hardness	Initial In	Total In		Uncoated Steel	Concrete
41B: Weikert	Bedrock (lithic)	12-20	---	Very strongly cemented	0	---	Moderate	Moderate	Moderate
Berks	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	Low	Low	High
41C: Weikert	Bedrock (lithic)	12-20	---	Very strongly cemented	0	---	Moderate	Moderate	Moderate
Berks	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	Low	Low	High
41D: Weikert	Bedrock (lithic)	12-20	---	Very strongly cemented	0	---	Moderate	Moderate	Moderate
Berks	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	Low	Low	High
41E: Weikert	Bedrock (lithic)	12-20	---	Very strongly cemented	0	---	Moderate	Moderate	Moderate
Berks	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	Low	Low	High
42C:									

Table K2. - Soil Features - Continued

Frederick County, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
42C: Weikert	Bedrock (lithic)	12-20	---	Very strongly cemented	0	---	Moderate	Moderate	Moderate
Berks	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	Low	Low	High
42D: Weikert	Bedrock (lithic)	12-20	---	Very strongly cemented	0	---	Moderate	Moderate	Moderate
Berks	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	Low	Low	High
42E: Weikert	Bedrock (lithic)	12-20	---	Very strongly cemented	0	---	Moderate	Moderate	Moderate
Berks	Bedrock (paralithic)	20-40	---	Strongly cemented	0	---	Low	Low	High
43: Wheeling	---	---	---	---	0	---	Moderate	Low	Moderate
44B: Zoar	---	---	---	---	0	---	Moderate	High	High
44C:									

Table K2. - Soil Features - Continued

Frederick County, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
44C: Zoar	---	---	---	---	0	---	Moderate	High	High
DAM: Dam	---	---	---	---	0	---	---	---	---
W: Water	---	---	---	---	0	---	None	---	---