

Section II
Soil and Site Information

Building Site Development
Douglas County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ar: Arlo-----	85	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	1.00	Cutbanks cave	1.00	Flooding	0.60
		Depth to saturated zone	1.00	Flooding	0.60		
		Low strength	1.00				
		Shrink-swell	0.50				
Ax: Arlo-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Frost action	1.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	0.80		
		Low strength	1.00				
		Shrink-swell	0.50				
BaB: Beadle-----	85	Very limited Shrink-swell	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Low strength	1.00				
BeE: Betts-----	45	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50				
		Frost action	0.50				
Ethan-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50				
		Frost action	0.50				
Bn: Bon-----	85	Very limited Flooding	1.00	Very limited Cutbanks cave	1.00	Somewhat limited Flooding	0.60
		Frost action	0.50	Flooding	0.60		

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bo: Bon-----	85	Very limited Frost action Flooding Low strength	1.00 1.00 0.22	Very limited Cutbanks cave Flooding Depth to saturated zone	1.00 0.80 0.61	Very limited Flooding	1.00
CeC: Clarno-----	50	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Ethan-----	30	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
CnA: Clarno-----	45	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Ethan-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Prosper-----	15	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
CnB: Clarno-----	40	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Ethan-----	30	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Prosper-----	15	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
CpA: Clarno-----	65	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
Prosper-----	20	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50				
CsA: Clarno-----	50	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
Stickney-----	20	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
Prosper-----	15	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50				
DaB: Davis-----	85	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
DbA: Degrey-----	55	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Very limited Sodium content	1.00
		Shrink-swell	1.00	Too clayey	0.12		
				Cutbanks cave	0.10		

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Walke-----	25	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Very limited Sodium content	1.00
DeA: Delmont-----	85	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.01
DLB: Delmont-----	55	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.01
Ene-----	30	Not limited		Very limited Cutbanks cave	1.00	Not limited	
DmC: Delmont-----	50	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.01
Talmo-----	30	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.66
Do: Dimo-----	85	Very limited Frost action Flooding Low strength Shrink-swell Depth to saturated zone	1.00 1.00 1.00 0.50 0.03	Very limited Cutbanks cave Depth to saturated zone Flooding	1.00 1.00 0.60	Somewhat limited Flooding Depth to saturated zone	0.60 0.03
EaA: Eakin-----	60	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Ethan-----	25	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
EaB: Eakin-----	60	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ethan-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
EaC: Eakin-----	55	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Ethan-----	30	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
EdA: Enet-----	55	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Delmont-----	30	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.01
EdD: Ethan-----	50	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63
Clarno-----	35	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63
Fa: Farmsworth-----	80	Very limited Low strength Shrink-swell Frost action Flooding Depth to saturated zone	1.00 1.00 0.50 0.40 0.03	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Sodium content Depth to saturated zone	1.00 0.03

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HbA: Henkin-----	55	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
Blendon-----	25	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
HbB: Henkin-----	55	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
Blendon-----	20	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
HeA: Highmore-----	50	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Eakin-----	25	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
HeB: Highmore-----	45	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Eakin-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
HgA: Highmore-----	45	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Walke-----	35	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Very limited Sodium content	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HhB: Homme-----	85	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
HmB: Homme-----	60	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
Ethan-----	25	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
HnA: Homme-----	60	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
Onita-----	25	Very limited Frost action Low strength Shrink-swell	1.00 1.00 1.00	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.47 0.10 0.03	Not limited	
Hv: Hoven-----	85	Very limited Depth to saturated zone Low strength Shrink-swell Ponding Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Ponding Too clayey Cutbanks cave	1.00 1.00 0.28 0.10	Very limited Depth to saturated zone Sodium content Ponding	1.00 1.00 1.00
La: Lane-----	80	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
M-W: Miscellaneous Water Area-----	100	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ma: Macken-----	85	Very limited Depth to saturated zone Low strength Shrink-swell Ponding Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Ponding Too clayey Cutbanks cave	1.00 1.00 0.28 0.10	Very limited Depth to saturated zone Too clayey Ponding	1.00 1.00 1.00
Na: Napa-----	80	Very limited Shrink-swell Flooding Low strength Depth to saturated zone Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Cutbanks cave Too clayey Flooding	1.00 1.00 0.72 0.60	Very limited Depth to saturated zone Flooding	1.00 0.60
Oa: Onita-----	85	Very limited Frost action Low strength Shrink-swell	1.00 1.00 1.00	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.47 0.10 0.03	Not limited	
On: Onita-----	50	Very limited Frost action Low strength Shrink-swell	1.00 1.00 1.00	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.47 0.10 0.03	Not limited	
Tetonka-----	30	Very limited Ponding Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.28 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00
Pg: Orthents, Gravelly--	100	Very limited Slope	1.00	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope Droughty Gravel content	1.00 0.91 0.25

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Pt: Prosper-----	55	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Low strength Shrink-swell	1.00 0.50	Cutbanks cave	0.10		
Tetonka-----	25	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
		Frost action Low strength Shrink-swell	1.00 1.00 1.00	Too clayey Cutbanks cave	0.28 0.10		
TaC: Talmo-----	100	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.89
Te: Tetonka-----	85	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
		Frost action Low strength Shrink-swell	1.00 1.00 1.00	Too clayey Cutbanks cave	0.28 0.10		
W: Water (less Than 40 Acres)-----	100	Not rated		Not rated		Not rated	
Wo: Worthing-----	85	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
		Frost action Low strength Shrink-swell	1.00 1.00 1.00	Too clayey Cutbanks cave	0.50 0.10		

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Wp: Worthing-----	100	Very limited Ponding Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00