

Section II
Soil and Site Information

Building Site Development
Davison 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
Aa: Chaska-----	80	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.19	Very limited Cutbanks cave Depth to saturated zone Flooding	1.00 1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 0.19
BaA: Beadle-----	85	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
BeE: Betts-----	50	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Ethan-----	40	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
BhD: Betts-----	40	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.96 0.50 0.50	Somewhat limited Slope Cutbanks cave	0.96 0.10	Somewhat limited Slope	0.96
Ethan-----	30	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.96 0.50 0.50	Somewhat limited Slope Cutbanks cave	0.96 0.10	Somewhat limited Slope	0.96
BlE: Betts-----	40	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Gavins-----	25	Very limited Slope	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Carbonate content	1.00
		Frost action	0.50			Droughty	0.83
BmA: Blendon-----	80	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
BnA: Blendon-----	55	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
Firesteel-----	35	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Carbonate content	1.00
		Low strength	1.00	Depth to soft bedrock	0.42	Depth to bedrock	0.42
		Depth to saturated zone	0.03	Cutbanks cave	0.10	Depth to saturated zone	0.03
BoA: Bon-----	85	Very limited Flooding	1.00	Very limited Cutbanks cave	1.00	Somewhat limited Flooding	0.60
		Frost action	0.50	Depth to saturated zone	0.61		
				Flooding	0.60		
Ca: Clamo-----	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	Flooding	0.60	Flooding	0.60
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	1.00	Too clayey	0.03		
		Depth to saturated zone	1.00				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Cc: Clamo-----	70	Very limited Depth to saturated zone Frost action	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Flooding Depth to saturated zone Ponding	1.00 1.00
		Flooding Low strength Shrink-swell	1.00 1.00 1.00	Flooding Cutbanks cave Too clayey	0.80 0.10 0.03		
CeB: Clarno-----	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	
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	
ChA: Clarno-----	45	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Houdek-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
ChB: Clarno-----	50	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
Houdek-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
DhA: Davison-----	50	Very limited Frost action Shrink-swell	1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.99 0.10	Not limited	
Hand-----	30	Somewhat limited Shrink-swell Frost action Low strength	0.50 0.50 0.22	Very limited Cutbanks cave	1.00	Not limited	
DmB: Delmont-----	90	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.04
EnA: Enet-----	80	Not limited		Very limited Cutbanks cave	1.00	Not limited	
EOA: Enet-----	60	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Delmont-----	30	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.04
EOB: 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	0.04
EsA: Dimo-----	70	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

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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
Storla-----	25	Very limited Frost action	1.00	Very limited Cutbanks cave Depth to saturated zone	1.00 1.00	Not limited	
EtC2: Ethan-----	40	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Betts-----	25	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
FeA: Fedora-----	75	Very limited Frost action Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Cutbanks cave	1.00 1.00	Very limited Depth to saturated zone	1.00
FsA: Firesteel-----	90	Very limited Frost action Low strength Depth to saturated zone	1.00 1.00 0.03	Very limited Depth to saturated zone Depth to soft bedrock Cutbanks cave	1.00 0.42 0.10	Very limited Carbonate content Depth to bedrock Depth to saturated zone	1.00 0.42 0.03
GRAV: Orthents, Gravelly--	100	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty Gravel content	0.91 0.25
HaB: Hand-----	85	Somewhat limited Shrink-swell Frost action Low strength	0.50 0.50 0.22	Very limited Cutbanks cave	1.00	Not limited	
HdA: Hand-----	70	Somewhat limited Shrink-swell Frost action Low strength	0.50 0.50 0.22	Very limited Cutbanks cave	1.00	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Davison-----	20	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.99	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
HkA: Houdek-----	60	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
Prosper-----	25	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				
HpA: Houdek-----	40	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
Prosper-----	25	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				
Stickney-----	20	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				
HsA: Houdek-----	50	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
Stickney-----	35	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				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
La: Lamo-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Flooding	0.60
		Flooding	1.00	Flooding	0.60	Depth to saturated zone	0.19
		Low strength Shrink-swell	1.00 0.50	Cutbanks cave	0.10		
		Depth to saturated zone	0.19				
LpA: Lamo-----	45	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Flooding	0.60
		Flooding	1.00	Flooding	0.60	Depth to saturated zone	0.19
		Low strength Shrink-swell	1.00 0.50	Cutbanks cave	0.10		
		Depth to saturated zone	0.19				
Prosper-----	40	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		
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
PrA: Prosper-----	80	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		
PrB: Prosper-----	85	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell Frost action	0.50 0.50	Cutbanks cave	0.10		

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ReA: Redstoe-----	85	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Very limited Carbonate content	1.00
		Frost action	0.50	Cutbanks cave	0.10	Depth to bedrock	0.42
ReC: Redstoe-----	85	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Very limited Carbonate content	1.00
		Frost action	0.50	Cutbanks cave	0.10	Depth to bedrock	0.42
ReD: Redstoe-----	80	Very limited Low strength	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Slope	1.00	Depth to soft bedrock	0.42	Carbonate content	1.00
		Frost action	0.50	Cutbanks cave	0.10	Depth to bedrock	0.42
Sa: Salmo-----	80	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Flooding	1.00	Flooding	0.80	Depth to saturated zone	1.00
		Low strength	1.00	Cutbanks cave	0.10	Salinity	1.00
		Depth to saturated zone	1.00				
		Shrink-swell	0.50				
SdA: Stickney-----	65	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				
Dudley-----	20	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Very limited Sodium content	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50	Too clayey	0.03		

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SoA: Storla-----	70	Very limited Frost action	1.00	Very limited Cutbanks cave	1.00	Somewhat limited Depth to saturated zone	0.03
		Shrink-swell	0.50	Depth to saturated zone	1.00		
		Depth to saturated zone	0.03				
StA: Arlo-----	60	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		
Durrstein-----	25	Very limited Flooding	1.00	Very limited Depth to saturated zone	1.00	Very limited Sodium content	1.00
		Shrink-swell	1.00	Flooding	0.60	Depth to saturated zone	1.00
		Low strength	1.00	Too clayey	0.28	Salinity	1.00
		Depth to saturated zone	1.00	Cutbanks cave	0.10	Flooding	0.60
		Frost action	0.50				
TeA: Tetonka-----	90	Very limited Ponding	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Too clayey	0.28		
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	1.00				
TsA: Tetonka-----	45	Very limited Ponding	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Too clayey	0.28		
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	1.00				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Stickney-----	40	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				
W: Water-----	100	Not rated		Not rated		Not rated	
Wo: Worthing-----	85	Very limited Shrink-swell	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
		Ponding	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Too clayey	0.50		
		Frost action	1.00	Cutbanks cave	0.10		
		Low strength	1.00				
Wp: Worthing-----	85	Very limited Ponding	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Too clayey	0.50		
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	1.00				