

**BRIDGE FOUNDATION SOIL BORING LOG**  
**midwest engineering services, inc.**

Route: Winter Avenue  
 Section: Vermillion  
 Structure No. CSX 1216  
 Station: 4+25  
 Offset: 10' Right

Boring: BB-1  
 Page: 1 of 2  
 Date of Boring: 9-16-02  
 Drilled By: Roger Burton  
 Checked By: Daniel E. Tappendorf, P.E.  
 MES Project No: 1-23038

Ground Water Elevation: when drilling: 607.0 FT. at completion: 610.0 FT.	D E P T H (ft.)	B L O W S (6")	Q <sub>u</sub> (tsf)	MC (%)	Soil Description	D E P T H (ft.)	B L O W S (6")	Q <sub>u</sub> (tsf)	MC (%)
Ground Surface Elevation: 617.0 FT.					4" Asphalt over 6" Crushed Stone				
				16	6" Dark brown silty CLAY (OL), Topsoil				
					Gray fine to medium clayey SAND (SP-SC) EL. 588.5 FT.				
		6		19	Dark brown SAND with gravel and brick fragments (SP), Fill	30	5	2.9B	10
		3					8		
		3					8		
EL. 612.5 FT.									
		9		16	Dark brown sandy CLAY with brick fragments (CL), Fill				
		14							
		6							
EL. 610.0 FT.									
		3		13	Brown sandy CLAY with gravel (CL), Fill	35	5	3.2B	9
		5					8		
		3					10		
EL. 607.5 FT.									
		2		15	Brown fine to medium clayey SAND (SP-SC)				
		1							
		1							
EL. 605.5 FT.									
		5		16	Brown fine silty SAND (SP-SM)	40	4	4.0P	10
		8					5		
		8					5		
EL. 602.5 FT.									
		4	6.8B	10	Gray silty CLAY with sand and small gravel (CL), Till	45	13		
		8					14	5.4B	10
		9					17		
		4	3.6B	10					
		7							
		7							
		4	5.0B	9					
		5							
		7							
		3		12					
		2							
		2							
EL. 593.5 FT.									
		4		18	Gray fine to medium clayey SAND (SP-SC)	50	11	6.6B	10
		5					10		
		6					15		

Note: Boring BB-1 was drilled to 51.5 ft depth on 9-16-02 and was extended down to 81.5 ft. depth on 1-6-03

continued next page

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample  
 MC - Moisture Content - Percent of dry weight  
 Qu - Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure  
 Qu test  
 P-Penetrometer

B-Bulge  
 S-Shear  
 P-Penetrometer

Soil Boring BB-1 Sta. 4+25, 10' Right = Sta. 103+67.22, 23.2' Right (For Boring Location only)

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Route: Winter Avenue  
 Section: Vermillion  
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Boring: BB-1  
 Page: 2 of 2  
 Date of Boring: 1-06-03  
 Drilled By: Roger Burton  
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 MES Project No: 1-23038

Ground Water Elevation: when drilling: 607.0 FT. at completion: 610.0 FT.	D E P T H (ft.)	B L O W S (6")	Q <sub>u</sub> (tsf)	MC (%)	Soil Description	D E P T H (ft.)	B L O W S (6")	Q <sub>u</sub> (tsf)	MC (%)
Ground Surface Elevation: 617.0 FT.					4" Asphalt over 6" Crushed Stone				
					6" Dark brown silty CLAY (OL), Topsoil				
					Gray fine to medium clayey SAND (SP-SC) EL. 588.5 FT.				
		4	2.2B	11	Gray silty CLAY with sand and small gravel (CL), Till	80	6		13
		6					9		
		9					12		
EL. 564.0 FT.									
		7		15	Gray fine to medium SAND (SP) Wet				
		13							
		7							
		13							
55									
		5		14	Gray fine to medium SAND (SP) Wet	85	5		
		8					11		
		11							
60									
		3		14					
		3							
		4							
65									
		9		11					
		11							
		16							
70									
		3		14					
		5							
		7							
75									

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Type Failure  
 Qu test  
 P-Penetrometer

B-Bulge  
 S-Shear  
 P-Penetrometer

**BORING LOGS - BB-1**

Date	Designed MJP	CSX TRANSPORTATION R.R. OVER WINTER AVE. MP OZA 1216 SECTION 99-00209-01-PV CITY OF DANVILLE, IL VERMILION COUNTY STA. 5527+59.81 PROP. STR. NO. 092-6039	Sheet No.
Revisions	Drawn BKN		23
	Checked KWB		of 24
	Approved KWB		
Prepared by:	URS	345 East Ash Avenue, Suite B Decatur, IL 62526	URS Job No. 36430866