

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 9 11 SHEETS
F.A.P. 312	101B-1	ALEXANDER	152	91	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract No. 98577

**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation

**SOIL BORING LOG** Page 1 of 2 Date 10/13/99

ROUTE FAP 312 DESCRIPTION IL 146 over Drainage Ditch LOGGED BY Bryan Keller

SECTION 101R-1 LOCATION 0.2 mi. W. IL 3, SEC. 17, TWP. 14S, RNG. 3W, 3 PM

COUNTY Alexander DRILLING METHOD Hollow Stem Auger HAMMER TYPE 149#

STRUCT. NO. 002-0008 Station 5+699.435

BORING NO. 1-S Station 5+690 Offset 11m Rt Ground Surface Elev. 102.2 m

DEPTH (m)	DEPTH (ft)	SOIL DESCRIPTION	UNIFIED SOIL CLASSIFICATION	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	SHRINKAGE (%)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	SHRINKAGE (%)
		Surface Water Elev. <u>98.9</u> m									
		Stream Bed Elev. _____ m									
		Groundwater Elev.: _____ m									
		First Encounter <u>97.59696</u> m									
		Upon Completion _____ m									
		After _____ Hrs. _____ m									
		5% Clay (continued)	WH								
		Very stiff, moist, brown, Clay A7-6									
		95.5									
		Medium, very moist, brown, Fine to Medium Sand									
		92% Sand									
		7% Silt									
		1% Clay									
		100.8									
		Stiff, moist, brown, Clay A7-6									
		152									
		Medium, very moist, brown, Fine to Medium Sand									
		94% Sand									
		4% Silt									
		2% Clay									
		99.3									
		Medium, moist, grey, mottled brown, Clay A7-6									
		3.05									
		Medium, very moist, brown, Sand and Gravel									
		48% Gravel 2% Silt									
		49% Sand 1% Clay									
		98.5									
		Soft, very moist, grey mottled brown, Clay A7-6									
		1									
		28.7									
		1									
		97.7									
		Loose, very moist, brown, Fine to Medium Sand									
		4.57									
		2									
		2									
		93% Sand, 5% Silt, 2% Clay									
		97.0									
		Very loose, very moist, brown, Fine to Medium Sand with Clay seams (no sample)									
		1									
		WH									
		75% Sand									
		20% Silt									
		6.10									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)  
BBS, from 137 (Rev. 8-99)

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**SOIL BORING LOG** Page 2 of 2 Date 10/13/99

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		Surface Water Elev. <u>98.9</u> m									
		Stream Bed Elev. _____ m									
		Groundwater Elev.: _____ m									
		First Encounter <u>97.59696</u> m									
		Upon Completion _____ m									
		After _____ Hrs. _____ m									
		Medium to Coarse Sand with Gravel									
		12									
		17									
		98% Sand									
		2% Silt									
		(No Sample)									
		13.72									
		8									
		9									
		10									
		(No Sample)									
		15.24									
		2									
		6									
		9									
		Medium, very moist, brown, Medium to Coarse Sand with Gravel									
		4% Gravel									
		95% Sand									
		1% Silt									
		16.76									
		5									
		5									
		7									
		85.1									
		ESF=43 Tons									
		Bottom of hole=17.07 meters									
		Free water observed at 4.57 m									
		18.29									

Elevation referenced to Bench Mark #105: Elevation=102.71 meters  
NOTE: To convert "N" values to "N60" multiply by 1.25

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BBS, from 137 (Rev. 8-99)

SOIL BORING LOGS  
F.A.P. RTE. 312 - SECTION 101B-1  
ALEXANDER COUNTY  
STATION 5+699.435  
STRUCTURE NO. 002-2002