

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Region 5 / District 5

SOIL BORING LOG

Page 1 of 1
Date 1959

ROUTE FAI 57 DESCRIPTION bridge over railroad LOGGED BY _____

SECTION X1-6VB LOCATION in Marion, SEC., TWP. 9S, RNG. 2E, 3 PM

COUNTY Williamson DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 100-0086
Station 1516+58.56

BORING NO. 1
Station 1516+93
Offset 32.00ft R.L.C. Survey
Ground Surface Elev. 434.9 ft (ft) (6") (tsf) (%)

DEPTH (ft)	SOIL DESCRIPTION	UNCONSOLIDATED COMPRESSIVE STRENGTH (tsf)	PERCENT MOISTURE (%)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	SOIL CLASSIFICATION
0	Surface Water Elev. _____ ft						
0	Stream Bed Elev. _____ ft						
0	Groundwater Elev.: _____ ft						
0	First Encounter _____ ft						
0	Upon Completion _____ ft						
0	After _____ Hrs. _____ ft						
12	Very stiff blue silty sandy clay (continued)	12	2.78				
12							
3	1.64						
12							
411.00	Hard blue silty sandy clay						
4	1.96						
18							
4.09							
428.00	Gray shale						
7	3.42						
Very stiff mottled silty clay							
8	3.84						
423.50	Hard mottled stony clay						
10	4.25						
421.00	Very stiff mottled sandy clay						
11	3.76						
418.00	Very stiff blue silty sandy clay						
13	2.94						
20							

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, form 137 (Rev. 8-99)

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STRUCT. NO. 100-0086
Station 1516+58.56

BORING NO. 2
Station 1516+13
Offset 32.00ft R.L.C. Survey
Ground Surface Elev. 435.6 ft (ft) (6") (tsf) (%)

DEPTH (ft)	SOIL DESCRIPTION	UNCONSOLIDATED COMPRESSIVE STRENGTH (tsf)	PERCENT MOISTURE (%)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	SOIL CLASSIFICATION
0	Surface Water Elev. _____ ft						
0	Stream Bed Elev. _____ ft						
0	Groundwater Elev.: _____ ft						
0	First Encounter _____ ft						
0	Upon Completion _____ ft						
0	After _____ Hrs. _____ ft						
4	1.96						
14							
3.42							
431.50	Very stiff brown mottled stony clay (continued)						
5	2.45						
17							
3.92							
426.50	Hard brown mottled silty clay						
12	3.66						
14							
3.51							
406.50	Gray shale						
17	4.41						
30							
425.00	Very stiff brown mottled stony clay						
18	4.49						
399.50							
13	3.92						
10	3.10						
20							

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, form 137 (Rev. 8-99)

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COUNTY Williamson DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 100-0086
Station 1516+58.56

BORING NO. 3
Station 1516+55
Offset 32.00ft R.L.C. Survey
Ground Surface Elev. 436.3 ft (ft) (6") (tsf) (%)

DEPTH (ft)	SOIL DESCRIPTION	UNCONSOLIDATED COMPRESSIVE STRENGTH (tsf)	PERCENT MOISTURE (%)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	SOIL CLASSIFICATION
0	Surface Water Elev. _____ ft						
0	Stream Bed Elev. _____ ft						
0	Groundwater Elev.: _____ ft						
0	First Encounter _____ ft						
0	Upon Completion _____ ft						
0	After _____ Hrs. _____ ft						
17	4.25						
16							
4.00							
5	2.78						
6	3.19						
17							
4.17							
409.50	Gray shale						
8	2.94						
30							
425.00	Very stiff brown mottled silty stony clay						
6	3.27						
403.00							
7	3.60						
10	3.27						
417.50	Hard brown mottled stony clay						
20							

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, form 137 (Rev. 8-99)

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COUNTY Williamson DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 100-0086
Station 1516+58.56

BORING NO. 4
Station 1517+28
Offset 32.00ft R.L.C. Survey
Ground Surface Elev. 437.8 ft (ft) (6") (tsf) (%)

DEPTH (ft)	SOIL DESCRIPTION	UNCONSOLIDATED COMPRESSIVE STRENGTH (tsf)	PERCENT MOISTURE (%)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	SOIL CLASSIFICATION
0	Surface Water Elev. _____ ft						
0	Stream Bed Elev. _____ ft						
0	Groundwater Elev.: _____ ft						
0	First Encounter _____ ft						
0	Upon Completion _____ ft						
0	After _____ Hrs. _____ ft						
10	Lost sample						
10							
435.00	Stiff mottled clay till						
10	Lost sample						
5							
14							
3.23							
411.00	Hard gray mottled stony clay till						
7	1.97						
29							
4.17							
426.50	Very stiff mottled clay till						
7	1.93						
36							
5.31							
405.50	Gray shale						
12	2.36						
140							
10.22							
423.50	Very stiff mottled sandy clay till						
9	2.41						
140							
10.22							
10	3.23						
399.50							
100							
10.22							
20							

Note: No stability problem

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, form 137 (Rev. 8-99)

BORING LOGS
F.A.I. RT. 57 SEC. (X1-6-2)VB-2
WILLIAMSON COUNTY
STA. 1516+58.56
S.N. 100-0086 (N.B.)
S.N. 100-0087 (S.B.)