

**Wang Engineering**  
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 1145 N Main Street  
 Lombard, IL 60148  
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**BORING LOG BC-2A**  
 WEI Job No.: 950-12-01  
 Datum: NGVD  
 Elevation: 657.00 ft  
 North: 2061584.48 ft  
 East: 1085942.76 ft  
 Station: 195+28.70  
 Offset: 16.1 RT

Client: Christian-Roge & Associates, Inc.  
 Project: Illinois Route 21 (Milwaukee Avenue)  
 Location: T44N R11E and T45N R11E

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**BORING LOG BC-2B**  
 WEI Job No.: 950-12-01  
 Datum: NGVD  
 Elevation: 662.50 ft  
 North: 2061560.33 ft  
 East: 1085952.83 ft  
 Station: 195+45.44  
 Offset: 3.95 LT

Client: Christian-Roge & Associates, Inc.  
 Project: Illinois Route 21 (Milwaukee Avenue)  
 Location: T44N R11E and T45N R11E

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**BORING LOG BC-2C**  
 WEI Job No.: 950-12-01  
 Datum: NGVD  
 Elevation: 658.00 ft  
 North: 2061587.45 ft  
 East: 1086026.00 ft  
 Station: 194+87.59  
 Offset: 56.28 LT

Client: Christian-Roge & Associates, Inc.  
 Project: Illinois Route 21 (Milwaukee Avenue)  
 Location: T44N R11E and T45N R11E

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	OU (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	OU (tsf)	Moisture Content (%)
655.0	24-inch thick black CLAY LOAM --TOPSOIL--	1	1	PUSH		1.00	29	655.0	24-inch thick black CLAY LOAM --TOPSOIL--	1	1	PUSH		1.00	29
	Medium stiff, dark brown CLAY LOAM, trace gravel	2	2	PUSH		0.50	32		Soft to stiff, brown SANDY CLAY LOAM, trace gravel	1	2	PUSH		1.00	23
651.5	Brown SANDY LOAM, trace gravel	3	3	PUSH		0.50	27	651.5	Loose to medium dense, gray, fine, poorly-graded SAND, some silt	2	2	PUSH		0.25	21
649.5	Brown, fine, poorly-graded SAND, trace gravel	4	4	PUSH		NP	17	649.5	Medium dense, brown SANDY GRAVEL	3	3	PUSH		0.50	36
647.5	Gray SILTY LOAM	5	5	PUSH		NP	16	647.5	--HARD DRILLING-- --POSSIBLE COBBLES--	4	4	PUSH		NR	20
645.3	Gray, fine, poorly-graded SAND with some silt	6	6	PUSH		NP	17	645.3	Very stiff, gray CLAY	5	5	PUSH		NP	18
640.5	Gray, medium to coarse, well-graded SAND, trace gravel	9	9	PUSH		NP	16	640.5	Loose, brown GRAVELLY SAND	6	6	PUSH		NR	21
637.0	Boring terminated at 20.00 ft	10	10	PUSH		NP	17	637.0	Medium dense, brown to gray, coarse, poorly-graded SAND, some gravel	7	7	PUSH		NP	13

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	OU (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	OU (tsf)	Moisture Content (%)
652.24	24-inch thick, black CLAY LOAM --TOPSOIL--	1	1	PUSH		1.00	23	652.24	24-inch thick, black CLAY LOAM --TOPSOIL--	1	1	PUSH		1.00	23
	Soft to stiff, brown SANDY CLAY LOAM, trace gravel	2	2	PUSH		0.25	21		Loose to medium dense, gray, fine, poorly-graded SAND, some silt	2	2	PUSH		0.25	21
639.5	Loose to medium dense, gray, fine, poorly-graded SAND, some silt	3	3	PUSH		0.50	36	639.5	Medium dense, brown SANDY GRAVEL	3	3	PUSH		0.50	36
627.5	Boring terminated at 35.00 ft	4	4	PUSH		NR	20	627.5	--HARD DRILLING-- --POSSIBLE COBBLES--	4	4	PUSH		NR	20
620.5	Very stiff, gray CLAY	5	5	PUSH		NP	18	620.5	Very stiff, gray CLAY	5	5	PUSH		NP	18
618.0	Loose, brown GRAVELLY SAND	6	6	PUSH		NR	21	618.0	Loose, brown GRAVELLY SAND	6	6	PUSH		NR	21
614.5	Medium dense, brown to gray, coarse, poorly-graded SAND, some gravel	7	7	PUSH		NP	13	614.5	Medium dense, brown to gray, coarse, poorly-graded SAND, some gravel	7	7	PUSH		NP	13
612.12	Boring terminated at 35.00 ft	8	8	PUSH		NP	17	612.12	Boring terminated at 35.00 ft	8	8	PUSH		NP	17

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	OU (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	OU (tsf)	Moisture Content (%)
657.65	24-inch thick, black CLAY LOAM --TOPSOIL--	1	1	PUSH		NP	8	657.65	24-inch thick, black CLAY LOAM --TOPSOIL--	1	1	PUSH		NP	8
	Medium dense, brown GRAVELLY SAND	2	2	PUSH		NP	13		Medium dense, brown GRAVELLY SAND	2	2	PUSH		NP	13
650.0	Medium dense, gray SANDY GRAVEL	3	3	PUSH		NP	13	650.0	Medium dense, gray SANDY GRAVEL	3	3	PUSH		NP	13
642.8	Medium dense to dense, gray, fine to coarse, well-graded SAND, some gravel and silt	4	4	PUSH		NP	17	642.8	Medium dense to dense, gray, fine to coarse, well-graded SAND, some gravel and silt	4	4	PUSH		NP	17
628.0	Boring terminated at 30.00 ft	5	5	PUSH		NP	9	628.0	Boring terminated at 30.00 ft	5	5	PUSH		NP	9
622.8	Medium dense to dense, gray, fine to coarse, well-graded SAND, some gravel and silt	6	6	PUSH		NP	16	622.8	Medium dense to dense, gray, fine to coarse, well-graded SAND, some gravel and silt	6	6	PUSH		NP	16
617.9	Medium dense to dense, gray, fine to coarse, well-graded SAND, some gravel and silt	7	7	PUSH		NP	8	617.9	Medium dense to dense, gray, fine to coarse, well-graded SAND, some gravel and silt	7	7	PUSH		NP	8
612.9	Boring terminated at 35.00 ft	8	8	PUSH		NP	8	612.9	Boring terminated at 35.00 ft	8	8	PUSH		NP	8

**GENERAL NOTES**  
 Begin Drilling 03-30-2011 Complete Drilling 03-30-2011  
 Drilling Contractor WTS Drill Rig Hand Auger  
 Driller: F & N Logger: F. Bozga Checked by M. Snider  
 Drilling Method: Pneumatic Hand Auger and Geoprobe Sampler

**WATER LEVEL DATA**  
 While Drilling 6.00 ft  
 At Completion of Drilling 2.00 ft  
 Time After Drilling NA  
 Depth to Water NA  
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

**GENERAL NOTES**  
 Begin Drilling 03-18-2011 Complete Drilling 03-18-2011  
 Drilling Contractor WTS Drill Rig Mobile B-57 TMR  
 Driller: K&R Logger: F. Bozga Checked by M. Snider  
 Drilling Method: 3.25 IDA HSA; Boring backfilled upon completion

**WATER LEVEL DATA**  
 While Drilling 10.50 ft  
 At Completion of Drilling 10.00 ft  
 Time After Drilling NA  
 Depth to Water NA  
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

**GENERAL NOTES**  
 Begin Drilling 03-18-2011 Complete Drilling 03-18-2011  
 Drilling Contractor WTS Drill Rig Mobile B-57 TMR  
 Driller: K&R Logger: F. Bozga Checked by M. Snider  
 Drilling Method: 3.25 IDA HSA; Boring backfilled upon completion

**WATER LEVEL DATA**  
 While Drilling 8.00 ft  
 At Completion of Drilling 2.00 ft  
 Time After Drilling NA  
 Depth to Water NA  
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

**SOIL BORING LOGS**  
**STRUCTURE NO. 049-C004**  
**OUTLET NO. 15**



FILE NAME = 0168953-04-soil.boring.logs.dgn	USER NAME =	DESIGNED - J.C.N./B.N.S.	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SOIL BORING LOGS</b> <b>STRUCTURE NO. 049-C004</b> SHEET NO. SC2-4 OF SC2-4 SHEETS	F.A.P. RTE. 330	SECTION 128R-3	COUNTY LAKE	TOTAL SHEETS 518	SHEET NO. 360
PLOT SCALE =	CHECKED - B.N.S.	REVISED -	CONTRACT NO. 60953							
PLOT DATE =	DRAWN - F.M.	REVISED -	ILLINOIS FED. AID PROJECT							
	CHECKED - B.N.S./J.C.N.	REVISED -								