
**ABBREVIATED
ROADWAY GEOTECHNICAL REPORT
LONGMEADOW PARKWAY / BOLZ ROAD
IDOT No. P-91-393-94, SECTION: 94-00215-01-ES
DEVISION OF TRANSPORTATION,
KANE COUNTY, ILLINOIS**

**for
McDonough Associates, Inc.
130 East Randolph Street
Chicago, IL 60601
(312) 946-8600**

**submitted by
Wang Engineering, Inc.
1145 N Main Street
Lombard, IL 60148
(630) 953-9928**

February 6, 2012

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
1.1	PROJECT DESCRIPTION	1
1.2	OTHER GEOTECHNICAL REPORTS.....	2
2.0	GEOLOGIC SETTING.....	2
2.1	GLACIAL COVER.....	3
2.2	BEDROCK GEOLOGY.....	3
3.0	METHODS OF INVESTIGATION.....	4
3.1	SUBSURFACE EXPLORATION.....	4
3.2	LABORATORY TESTING	6
4.0	RESULTS OF FIELD AND LABORATORY INVESTIGATIONS.....	6
4.1	TOPSOIL CHARACTERIZATION	6
4.2	EXISTING PAVEMENT STRUCTURE.....	7
4.3	SUBGRADE PROPERTIES	7
4.4	GROUNDWATER CONDITIONS.....	8
5.0	ANALYSES AND RECOMMENDATIONS.....	8
5.1	TOPSOIL STRIPPING AND REUSE	9
5.2	SUBGRADE PREPARATION AND TREATMENT	9
5.3	EMBANKMENT MATERIAL AND STABILITY.....	11
6.0	CONSTRUCTION CONSIDERATIONS.....	12
6.1	EXCAVATION	12
6.2	REUSE OF EXCAVATED MATERIALS	12
6.3	DEWATERING.....	13
6.4	ROADWAY EMBANKMENT/CUT CONSTRUCTION.....	13
6.5	EARTHWORK OPERATIONS.....	13
6.6	CONSTRUCTION MONITORING.....	14
7.0	QUALIFICATIONS	15
	REFERENCES	16
	EXHIBITS	
	1. <i>Project and Site Location Maps</i>	
	2. <i>Site and Regional Geology</i>	
	APPENDIX A: BORING LOGS	
	APPENDIX B: LABORATORY TEST RESULTS	
	APPENDIX C: GLOBAL STABILITY EVALUATIONS	
	APPENDIX D: BORING LOCATIONS PLANS (ATTACHED)	
	APPENDIX E: SOIL PROFILES (ATTACHED)	

**ABBREVIATED
ROADWAY GEOTECHNICAL REPORT

LONGMEADOW PARKWAY / BOLZ ROAD

KANE COUNTY, ILLINOIS

FOR

MCDONOUGH ASSOCIATES, INC.**

1.0 INTRODUCTION

This report presents the results of subsurface investigation, laboratory testing, and geotechnical evaluation for the realignment and construction of Longmeadow Parkway / Bolz Road (Bolz Road). The project site is located in Kane County, Illinois. The purpose of our geotechnical work was to investigate and evaluate the subsurface soil and groundwater conditions within this project area that would form a basis for design and construction recommendations and provide an abbreviated report summarizing the results of our studies, conclusions, and recommendations.

1.1 Project Description

The Kane County Division of Transportation has planned a new access across the Fox River. This new roadway corridor referred to as “Longmeadow Parkway / Bolz Road over the Fox River” extends 5.2 miles from Huntley Road (1-mile west of Randall Road) on the west to Illinois Route 62 on the east and generally follows township section lines in northern Kane County. The proposed roadway will traverse the communities of Algonquin, Carpentersville, Barrington Hills and unincorporated Kane County. The new roadway will cross Boyer Road, Randall Road, Sleepy Hollow Road, Illinois Route 31, Old Bolz Road, Illinois 25 and Illinois 62.

The project includes construction/realignment of approximately 5.82 miles of mainline and 2.70 miles of frontage/cross road enhancement. The proposed roadway cross-section will consist of two-lanes in each direction separated by a landscaped median area. The median area will be utilized at intersections as left turn lanes. Traffic signals will be installed at all major intersection locations. Other work included in the project consists of bike path construction, open space preservation, drainage and floodplain storage.

There are six structures proposed along the improvement, the bridge over Fox River and five retaining walls:

- Retaining wall number 1 is located immediately west of Sleepy Hollow Road and north of Longmeadow Parkway;
- Retaining wall number 2 is located 1100 feet west of IL Route 31 and south of proposed Longmeadow Parkway;
- Retaining wall number 3 is located immediately east of east abutment of the Fox River Bridge on south side;
- Retaining wall number 4 is located south of Carpentersville Quarry and south of proposed Bolz Road;
- Retaining wall number 5 is located near the intersection of proposed Longmeadow Parkway and Westborne Parkway south of the proposed Forest Parkway.

Exhibit 1 shows the location of the project corridor.

1.2 Other Geotechnical Reports

Wang Engineering, Inc. (Wang) has submitted draft Structure Geotechnical Reports (SGR) for the Longmeadow Parkway Bridge over Fox River, final SGR for the retaining walls numbers 1 to 2, and draft SGR for the retaining wall number 3. Wang was not authorized to perform geotechnical engineering services for the retaining wall numbers 4 and 5.

2.0 GEOLOGIC SETTING

The project area is located in the northeastern part of Kane County, in the communities of Algonquin, Carpentersville, South Barrington, and unincorporated Kane County. On the USGS "*Crystal Lake Quadrangle 7.5 Minute Series*" and "*Barrington Quadrangle 7.5 Minute Series*" maps, the investigated area runs west to east across the southern portion of sections 1 through 5 and northern portion of sections 7 through 12 of Twp 42 N and Range 8 E of the

Third Principal Meridian. A *Site Location Map* is presented as Exhibit 1.

The following review of the published geologic data is meant to place within a regional framework the results of our subsurface investigation and, thus, to confirm their general reliability. For the study of the regional geologic framework, Wang considered northeastern Illinois area in general and northeastern Kane County in particular. Exhibit 2 illustrate the *Site and Regional Geology*.

2.1 Glacial Cover

The surficial cover is the result of Wisconsin-age glacial activity (Hansel and Johnson, 1996). The glacial deposits were emplaced during pulsating advances and retreats of an icesheet lobe responsible for the formation of end moraines and associated low-relief till and lake plains.

The project site extends north to south trending Barlina Moraine to the west and the Woodstock Moraine to the east. The Barlina Moraine contains deposits of diamicton and sorted sediments associated with the Yorkville Member and Batestown Member of the Lemont Formation intercalated with lenses and layers of sorted sands and gravels outwash deposits of the Henry Formation overlying thick deposits of clay loamy diamictons the Tiskilwa Formation. Multiple advances and retreats of the ice front in the area account for the layers in the moraine (Hansel and Johnson, 1996, Dey et al., 2004, and Curry, 1995).

The moraines are separated by the lower lying Fox River Valley. Large volumes of meltwater carved the river valley. This meltwater deposited thick accumulations of sand and gravel outwash (Henry Formation) in the form of terraces and point bars.

Periodic flooding along the Fox River deposited organic rich, fine grained sediments associated with the Cahokia Formation (Dey et al., 2004 and Curry, 2005).

2.2 Bedrock Geology

The bedrock surface represents a significant unconformity in Kane County. Roughly 400 million year old bedrock is buffed below younger glacial drift deposited less than 500,000 years ago. The uppermost bedrock unit in the area consists of nearly horizontal Silurian and Ordovician age dolomites (Curry, 2005, Dey et al., 2004). The Ordovician age dolomites tend to be softer and shaly where as the Silurian age dolomites tend to be harder. The bedrock top in the project area lies at about 620 to 680 feet elevation (NGDV) (Curry, 2005).

Our subsurface investigation results fit into the local geologic context. The borings drilled in the project area revealed that the native sediments at the project site consist of brown (weathered) to gray clayey diamicton with sand and silt lenses and thick accumulations of sand and gravel outwash deposits.

3.0 METHODS OF INVESTIGATION

3.1 Subsurface Exploration

Wang drilled 139 subgrade borings (R-001 to R-049, R-055 to R-066, R-075, R-076, and R-079 to R-154) for the roadway subsurface investigation. Selected structure borings from the 122 structure borings (S-001 to S-050, S-052, S-054, S-055, S-060 to S-084, S-088 to S-123, and SX-01 to SX-04) drilled for proposed retaining walls and bridge were used to supplement the roadway data. The borings were drilled in 2005 and in 2010. The investigated roadway alignments, existing ground surface elevations, and termination depths of the borings are summarized in Table 1. The boring locations were stacked in the field by Engineering Enterprises, Inc., subconsultant to McDonough Associates, Inc. (MAI) elevation, station and offset information for each boring was provided by MAI. Boring location data are presented in the *Boring Logs* (Appendix A). The as-drilled locations are shown in the *Boring Location Plans* (Appendix D) and *Soil Profiles* (Appendix E).

Table 1: Boring Investigation Summary

Roadway Alignment	Reference Borings	Existing Surface Elevation (feet)	Boring Depth (feet)
Main Alignment	R-001 to R-098	796.7 to 925.7	10.0 to 28.0
Boyer Road	R-099 to R-105	910.9 to 919.9	10.0 to 14.0
Westborne Road	R-106 to R-108	880.4 to 890.0	10.0
Sandbloom	R-127	738.4	11.0

Roadway Alignment	Reference Borings	Existing Surface Elevation (feet)	Boring Depth (feet)
IL 25	R-138 to R-144	866.8 to 899.7	10.0 to 13.0
IL 65	R-145 to R-154	862.2 to 889.7	10.0 to 12.0
IL 31	R-115 to R-123	794.5 to 811.6	10.0 to 18.0
Bolz Road	R-124 to R-137	725.3 to 844.7	10.0 to 40.0
Bolz Road Connector	R-134 and R-135	825.0 to 826.8	12.0 and 16.0

Truck and ATV-mounted drilling rigs, equipped with hollow stem augers, were used to advance and maintain an open borehole. Soil sampling was performed according to AASHTO T 206, "*Penetration Test and Split Barrel Sampling of Soils.*" The soil in the roadway and peat borings was continuously sampled to the boring termination depths. The soil in the structure borings was sampled at 2.5-foot intervals to 35 feet and at 5-foot intervals to termination depth. Samples collected from each interval were placed in sealed jars and transported to Wang Geotechnical Laboratory in Lombard, Illinois for further examination and laboratory testing.

Field boring logs, prepared and maintained by a Wang engineer, include lithological descriptions, visual-manual soil classifications, results of Rimac and pocket penetrometer unconfined compressive strength tests, and results of Standard Penetration Tests (SPT), recorded as blows per 6 inches of penetration. These values are shown on the boring logs as SPT values. The N value (shown on the soil profile) is the sum of the second and third blows per 6 inches). The soils were described and classified according to Illinois Division of Highways (IDH) Textural Classification system. The field logs were finalized by an experienced engineering geologist after verifying the field visual classifications and laboratory test results.

Groundwater observations were made during and at the end of drilling operations. Due to safety considerations, boreholes were backfilled with soil cutting or bentonite chips immediately upon completion.

3.2 Laboratory Testing

All soil samples were tested in the laboratory for moisture content (AASHTO T-265). Atterberg limits (AASHTO T 89/T 90) and particle size (AASHTO T 88) analyses were performed to classify selected samples representing the main soil layers encountered during the investigation in structure borings. Field visual descriptions of the soil samples were verified in the laboratory. Tested soils were classified according to the IDH system. Laboratory test results are shown in the *Boring Logs* (Appendix A), and in the *Laboratory Test Results* (Appendix B).

4.0 RESULTS OF FIELD AND LABORATORY INVESTIGATIONS

Detailed descriptions of the soil conditions encountered during the subsurface investigation are presented in the attached *Boring Logs* (Appendix A) and in the *Soil Profiles* (Appendix E). Please note that strata contact lines represent approximate boundaries between soil types. The actual transition between soil types in the field may be gradual in horizontal and vertical directions.

The following sections summarize topsoil, existing pavement, and subgrade composition and properties for the project alignments; where appropriate, references will be made to the distribution of specific material characteristics over the entire project area.

4.1 Topsoil Characterization

Topsoil observations and measurements were performed in 203 boreholes throughout the project. In general the topsoil consists of black to dark brown silty clays with thicknesses ranging from 2 to 18 inches, and averaging 9 inches. Between IL 31 and Sandbloom Road topsoil measurements show thicknesses varying from 12 to 36 inches.

In approximately 70% of the measurements topsoil thickness ranged from 6 to 12 inches.

4.2 Existing Pavement Structure

Pavement coring was not in the scope of our investigation. Existing pavement structure was observed in 16 boreholes when drilled through existing pavement. Sections along main alignment were drilled along existing roadway thus the pavement was measured in three roadway borings showing thicknesses of 6 to 10 inches asphalt pavement over gravel or crushed stone base coarse. The rest of the pavement measurements were performed along the crossroads where the pavement structure thicknesses varies from 12 to 24 inches of asphalt over granular base coarse, asphalt over concrete with granular base coarse, or concrete over granular base coarse (see Appendix A – *Boring Logs* and Appendix D – *Borings Location Plans*).

4.3 Subgrade Properties

The project is situated on west and east sides of Fox River valley and crosses the river floodplain, thus most of the subsurface soils encountered are granular and part of the outwash deposits and alluvium. The river valley was curved in the thick diamicton deposits. Underneath the diamicton, older outwash deposits (Ashmore Tongue) represent an important aquifer which may rest over the dolostone bedrock. Thus, the lithologic succession may be succinctly described as follows:

Beneath topsoil or pavement, borings encountered (1) fill: man-made cohesive and granular materials; (2) loose to very dense silt, sand, to gravelly sand outwash deposits; and (3) medium stiff to hard clay, clay loam, and silty clay loam diamictons. Granular soils make up approximately 65% of the subsurface soil encountered.

1) Man-made ground (fill)

Underneath topsoil or pavement, most of the borings drilled within an existing road encountered fill. Generally fill consists of up to 7-foot thick cohesive and granular soils. Up to 77% of the fill consists of stiff to hard cohesive soils.

2) Loose to very dense silt, sand, to gravelly sand outwash

Loose to dense silt, silty loam, sand and gravelly sand outwash deposits with thicknesses of up to 17.8 feet were encountered along the proposed roadway. Between IL 31 and IL 25, within Fox River valley, up to 35.0 feet of medium dense to very dense gravelly sand outwash was measured.

3) Medium stiff to hard clay to silty clay loam diamicton

In general, the cohesive deposits are characterized as medium stiff to hard clay, clay loam and silty clay to silty clay loam diamicton with thicknesses of more than 85.0 feet. Occasional pockets of organic silty clay and peat were encountered. Loose to medium dense, silt, silty loam, loam, sandy loam, and sand lenses were encountered at various depth.

4.4 Groundwater Conditions

Groundwater was encountered in 34 roadways boring at depths varying from 2.5 to 20.5 feet below ground surface (bgs) and in 103 structure borings at depth varying from 3.8 to 82.5 feet bgs. The groundwater was generally associated with silt, sand, and gravelly sand outwash deposits. The groundwater encountered at depth higher than 10 feet is likely perched above cohesive, poorly-draining soils. Based on the majority of the roadway borings, as well as the groundwater levels encountered in the structure borings, we estimate the regional groundwater level is deep seated and will not adversely affect the pavement design or performance. In the proximity of the Fox River valley, groundwater will fluctuate with the river water surface level.

5.0 ANALYSES AND RECOMMENDATIONS

Based on the project information (plans, profile, cross sections drawings, etc.), provided by MAI and the subsurface soil conditions revealed during investigations, recommendations are presented in the following sections for the design and construction of the proposed improvements. The results of the field and laboratory data were utilized to evaluate the engineering properties of the soils encountered during site investigation.

The Longmeadow Parkway roadway will be built from Station 2000+00 to Station 2307+16.79 and supported by embankment or excavating cuts, creating 1:3 (V:H) or gentler slopes.

The reconstruction of the side streets will be as follow:

Boyer Road from Station 102+50 to Station 122+50,

Westborne Parkway from Station 1200+00 to Station 1208+26.00,

IL Route 31 from Station 408+00 to Station 433+50,

Sandbloom Road from Station 902+00 to Station 909+30,
IL Route 25 from Station 600+50 to Station 622+50,
IL Route 62 from Station 800+50 to Station 829+25,
Bolz Road from Station 500+00 to Station 532+00
Bolz Road Connector from Station 700+00 to Station 706+50.

At the time of this report submittal, the proposed pavement thickness was unknown, thus all recommendations are taking in consideration a assumed pavement thickness of 12 inches.

5.1 Topsoil Stripping and Reuse

Prior to embankment construction, the ground surface should be stripped of topsoil and organic matter including root zone materials. For quantity estimating purposes, the average topsoil thickness to be stripped is nine (9) inches. The actual depth of stripping should be determined in the field during construction. The required topsoil stripping will also depend on the construction season and precipitation during mass grading operations. Excavated topsoil meeting the requirements of Section 211 of the IDOT Standard Specifications for Road and Bridge Construction can be reused in areas where topsoil is required.

5.2 Subgrade Preparation and Treatment

All vegetation, pavements, surface topsoil, and debris should be cleared and stripped from the roadway construction areas and where embankment fills are to be placed. Following stripping of topsoil, surficial vegetation and the excavation to proposed subgrade elevations (or prior to placement of new embankment fill where required); it is recommended that the exposed subgrade be proofrolled and observed under construction equipment. Proofrolling aids in identifying soft or unstable soil conditions that may exist at or near the exposed subgrade level. It is recommended that the proofrolling be accomplished with a fully-loaded, 25-ton dump truck or other equipment providing an equivalent loading such as heavy vibratory roller. A minimum of 4 passes should be made over the entire subgrade areas in both the direction. In confined areas and in areas where a dump truck or a roller can not be used effectively, such as at edges of the excavation bottom, proofrolling/compaction may be performed with hand-operated heavy vibratory equipment with enough number of passes so that unstable subgrade can be detected. The exposed subgrade should be observed for the amount of deflection or rutting and tested with static or dynamic cone penetrometer. All unstable and soft areas should be treated in accordance with criteria given in the IDOT "Subgrade Stability Manual."

Remedial work for unstable subgrade should consist of disking, aerating, and recompacting exposed subgrade soils, as provided in Art. 301 of the IDOT Standard Specifications. Solutions to a persistent pumping problem may include removal of unsuitable soils and replacement with granular fill, use of an appropriate Geotextile or a combination thereof.

We recommend to anticipate removal and replacement at locations shown in Table 2 along the project alignments where the borings have indicated softer and/or wet soils at shallow depths from the proposed grade. We recommend that contract plan quantities be calculated for the areas shown in Tables 2. Any Porous Granular Embankment, Subgrade (PGE,Sub) not needed at the time of construction can be deleted from the contract with no extra compensation to the contractor. It should be noted that some removal of the existing poor subgrade soils will occur due to lowering of the proposed subgrade level. Areas where subgrade treatment was not identified by the borings, or the areas in between borings, the subgrade treatment may become necessary during construction. Where removal and replacements are required, all such areas should extend to at least one foot beyond the back of the curb or outside edge of new shoulders. We recommend that the undercuts are sloped from the width limits down to the depth levels shown in Table 2 at no greater than 1:2 (V:H) slope.

Some portion of the cross roads will be widened. It is possible that unstable soil conditions may be encountered during the construction where borings are not performed. Subgrade treatment should be decided during construction.

The stability of prepared roadway subgrade will depend upon such factors as surface drainage provided by the contractor as well as prevailing temperature and precipitation experienced during construction. The amount of construction traffic and subgrade disturbance created by heavy vehicles will also have an influence on subgrade stability. The contractor should try to make full use of ditches in order to maintain positive drainage for subgrade areas. Temporary drainage ditches or pumping from depressed areas should be provided as needed during construction in order to prevent ponded water from affecting the stability of the roadway.

Aggregate fill may be required for bridging over weak subgrade soils that demonstrate persistent stability problems. Aggregate materials needed beneath the proposed pavement structure lower layer should consist of IDOT District One PGE, Sub.

Some portion of the roadway widening will be over the existing ditches. We anticipate soft subgrade soil condition at the bottom of the ditches particularly during the wet seasons. The removal of soft and unstable soils will need to be determined during the construction.

Existing unsuitable soils below topsoil, mostly due to high moisture content and low shear strength, will be removed as part of excavation required to the proposed subgrade. We do not recommend removing unsuitable soils which exist at some locations at depths of 3 or more feet below the proposed subgrade elevation.

Table 2: Subgrade Treatment Recommendations for Longmeadow Parkway and Cross Roads

Alignment	Limits (Station to Station)	Proposed Treatment	Treatment Depth (inches)	Treatment Width	Boring / Concerns (Qu, MC)
Main Alignment	2094+50 to 2097+50	Disk, Dry and Recompact	6	Full Width	R-033, SX-03 N=6, >31%
	2256+50 to 2259+00	PGE,Sub	12	Full Width	R-082 N=9, 1.0 tsf
Bolz Road	505+00 to 507+50	PGE,Sub	12	Full Width	R-128 0.25-0.5 tsf, 22%
IL 31	430+50 to 433+00	PGE,Sub	12	Full Width	R-123 0.5 tsf, 23-31%
IL 62	808+50 to 817+00	PGE,Sub	12	Full Width	R-148 to R-150 N=3-7 blows/foot, <0.25-1.0 tsf, 30%

- Full Width treatment corresponds to the proposed width of the proposed pavement structure.
- Treatment depth is below the proposed subgrade elevation.

5.3 Embankment Material and Stability

The material to be used for the roadway embankment construction should be in accordance with Section 204 and 205 of the IDOT SSRBC. According to the IDOT District One policy a shrinkage factor of 15% should be used to measure the borrowed and furnished excavation quantities.

The computer program, SLIDE Version 5.0, was used to calculate the factors of safety against global stability. The Simplified Bishop Method was used for slope stability analyses. The soil parameters for the proposed embankment fill were selected as per IDOT requirements. Details of stability analysis with the critical failure surface and results are also shown in Appendix C.

Slope stability analyses were performed for the embankment side slopes for the areas which are judged to be the most critical sections. The critical locations at Stations 2096+00 and 2158+00 were analyzed considering nearby soil borings. The estimated soil parameters considered and results of stability analysis are shown in Appendix C. The calculated minimum factor of safety (FOS) was 1.79 at Station 2096+00 and 3.22 at Station 2158+00. Both results are greater or equal to the minimum FOS required by IDOT of 1.5 for embankment slopes and 1.7 for cut slopes when the stability analysis is based on the field (Rimac) tests of split-spoon samples.

The slopes will require permanent protection to prevent erosion due to precipitation and storm water runoff. A 6-inch thick layer of topsoil should be provided on the slopes and seeded. The slope protection system should provide a structurally-stable topsoil environment for grass growth.

6.0 CONSTRUCTION CONSIDERATIONS

6.1 Excavation

Temporary excavations should have a slope as required to provide a stable side slopes. All temporary cut excavation should be analyzed individually for excavation of more than 4 feet deep or slope steeper than 1:2 (V:H). Excavations should be performed in accordance with local, state, and federal regulations. The potential effect of ground movements upon nearby roadways and utilities should also be taken into consideration.

6.2 Reuse of Excavated Materials

Excavated materials free of organic matters and miscellaneous debris can be reused in the general grading areas, as an embankment material or to backfill utility trenches. The roadway cut areas for this project will generally provide a good borrow source for the embankment fill. At some locations, excavated clayey soils particularly soils containing perched groundwater will

require moisture conditioning during embankment construction. The excavated material should be approved by the engineer.

6.3 Dewatering

Groundwater level measurements were made in the borings at the time of drilling. The granular soils may exhibit perched groundwater conditions. These layers may be intercepted during cut slope excavation. Seepage water that does accumulate in open excavations above groundwater level can be removed using the sump pump method. Some difficulty in dewatering is anticipated during deep cut excavation areas. Surface runoff and ditches should be directed away from the excavation to facilitate dewatering operations.

6.4 Roadway Embankment/Cut Construction

Embankment should be constructed as early as possible in the project construction period in order to allow the embankment to adjust or settle under its own weight as much as possible prior to pavement construction. It is recommended that embankment construction be performed in accordance with Section 205 of the IDOT Standard Specifications for Road and Bridge Construction (SSRBC).

Maintenance of the slope during the construction will be required for localized areas of cut slopes where erosion prone soils (silt and sand) are encountered. These soils will develop minor sloughing however; major sloughing may develop if these soils are saturated with perched groundwater. These conditions should be observed during construction and corrective measures 335519141.148 should be taken. Heavy construction equipment and material should not be placed near the top of the slope, unless the stability of slope is acceptable.

6.5 Earthwork Operations

The required earthwork can be accomplished with conventional construction equipment. Precautions should be taken by the Contractor to prevent water erosion of the exposed subgrade. A compacted subgrade will minimize water runoff erosion. Silt and fine sands are sensitive to mechanical disturbance such as traffic and construction crew and will cause deterioration of exposed subgrade soils. Earthwork procedures should include provisions to minimize soil disturbance and exposure.

Earth moving operations should be scheduled not to coincide with excessive cold or wet weather (early spring, late fall or winter). Wet sand exposed to cold weather should be protected from freezing. Any soil allowed to freeze or soften due to the standing water should be removed from the subgrade. Wet weather can cause problems with subgrade compaction when the water contents exceed optimum.

6.6 Construction Monitoring

There is no need for a special construction monitoring for the earthwork except normally required by the IDOT SSRBC, Special Provisions and Contract Plans.

During construction, an experienced geotechnical engineer should be retained to perform the following tasks:

- Monitor earthwork operations;
- Evaluate the suitability of the soils for subgrade support and embankment construction;
- Observe excavation including cut slopes;
- Check soil materials and compaction for project specifications compliance;
- Monitor locations and depths of undercuts; and
- Advise the IDOT/Resident Engineer of any conditions not apparent during the subsurface exploration.

7.0 QUALIFICATIONS

The analysis and recommendations submitted in this report are based upon the data obtained from borings by Wang during investigations. This report does not reflect any variations that may occur between the borings or elsewhere on the site, variations whose nature and extent may not become evident until the course of construction. In the event that any changes in the design are planned, we should be timely informed so that changes can be reviewed, modified, and approved in writing by the geotechnical engineer.

It has been a pleasure to assist McDonough Associates, Inc. and Kane County Division of Transportation on this project. Please call if there are any questions, or if we can be of further service.

Respectfully Submitted,

WANG ENGINEERING, INC.

Mohammed (Mike) Kothawala, P.E., D.GE
Project Manager/Senior Geotechnical Engineer

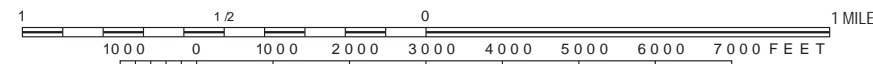
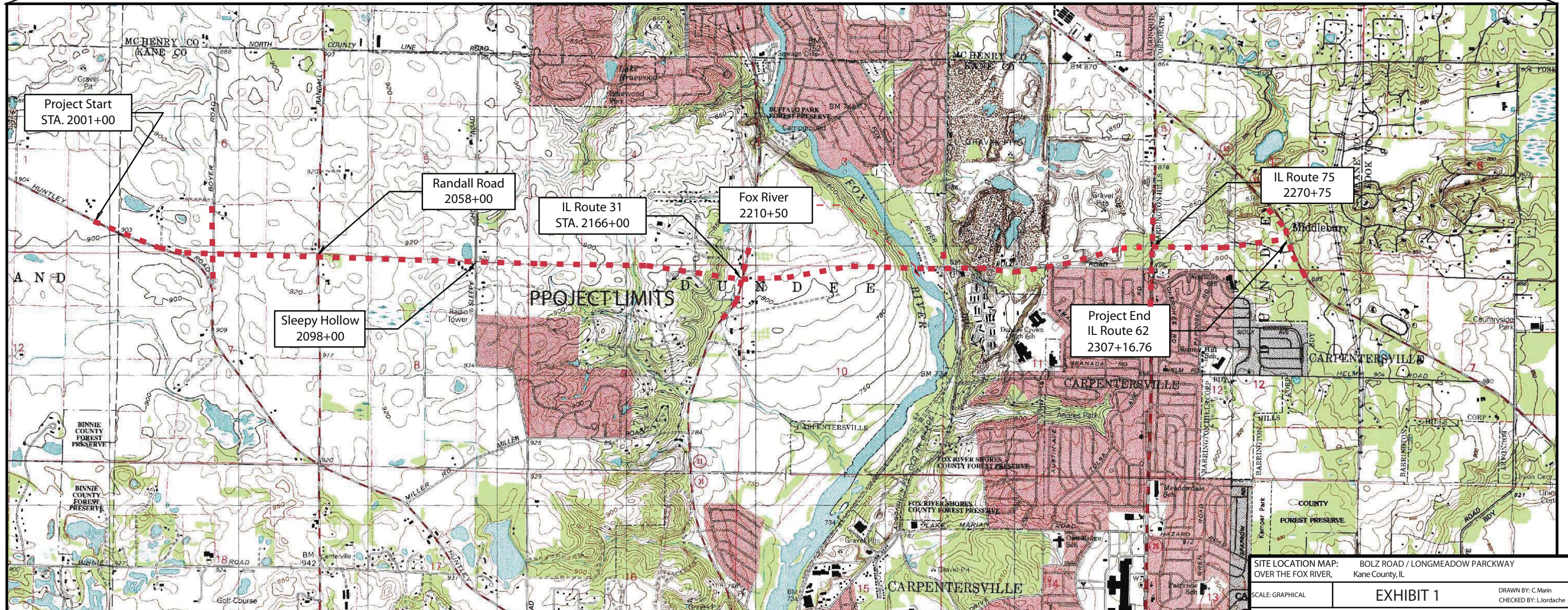
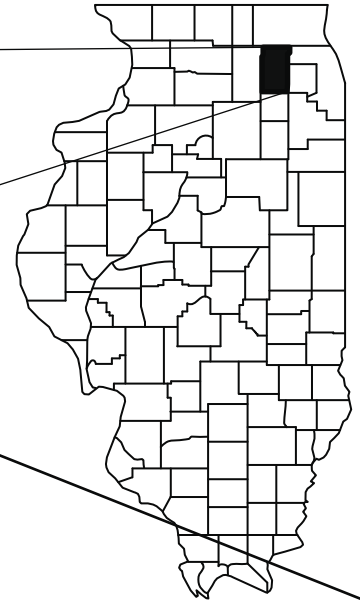
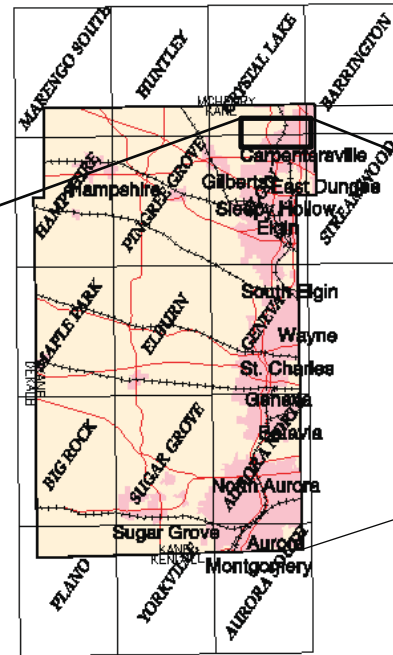
Jerry W.H. Wang, Ph.D., P.E.
Principal

REFERENCES

- BAUER, R.A., CURRY, B.B., GRAESE, A.M., VAIDEN, R.C., SU, W.J., and HASEK, M.J., 1991, Geotechnical Properties of Selected Pleistocene, Silurian, and Ordovician Deposits of Northeastern Illinois: Environmental Geology 139, Illinois State Geological Survey, 69 p.
- CURRY, B.B., 2005, Surficial Geology of Crystal Lake Quadrangle, McHenry and Kane counties, Illinois: Illinois Geological Survey, Illinois Geologic Quadrangle Map, IGQ Crystal Lake-SG, 1:24,000.
- HANSEL, A.K., AND JOHNSON, W.H. (1996) Wedron and Mason Groups: Lithostratigraphic Reclassification of the Wisconsin Episode, Lake Michigan Lobe Area. ISGS Bulletin 104. Champaign, Illinois State Geological Survey.
- HERZOG, B., STIFF, B.J., CHENOWETH, C.A., WARNER, K.L., SIEVERLING, J.B., and AVERY, C.(1994) Buried Bedrock Surface of Illinois: Illinois State Geological Survey.
- IDOT 1999. Geotechnical Manual. Illinois Department of Transportation.
- IDOT 2007. Standard Specifications for Road and Bridge Construction. Illinois Department of Transportation.
- WILLMAN, H.B., and LINEBACK, J.A. (1970) Surficial Geology of the Chicago Region Map: Illinois State Geological Survey.
- WILLMAN, H.B. (1971) Summary of the Geology of the Chicago Area. ISGS Circular C460. Illinois State Geological Survey, Urbana, 77 pp.

EXHIBITS

1. Project and Site Location Maps
2. Site and Regional Geology



SITE LOCATION MAP: BOLZ ROAD / LONGMEADOW PARKWAY
OVER THE FOX RIVER, Kane County, IL

SCALE: GRAPHICAL EXHIBIT 1

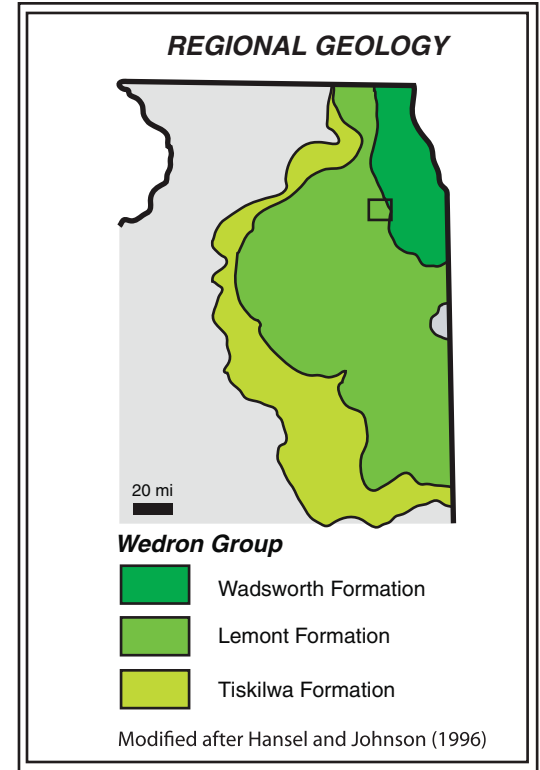
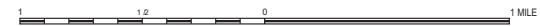
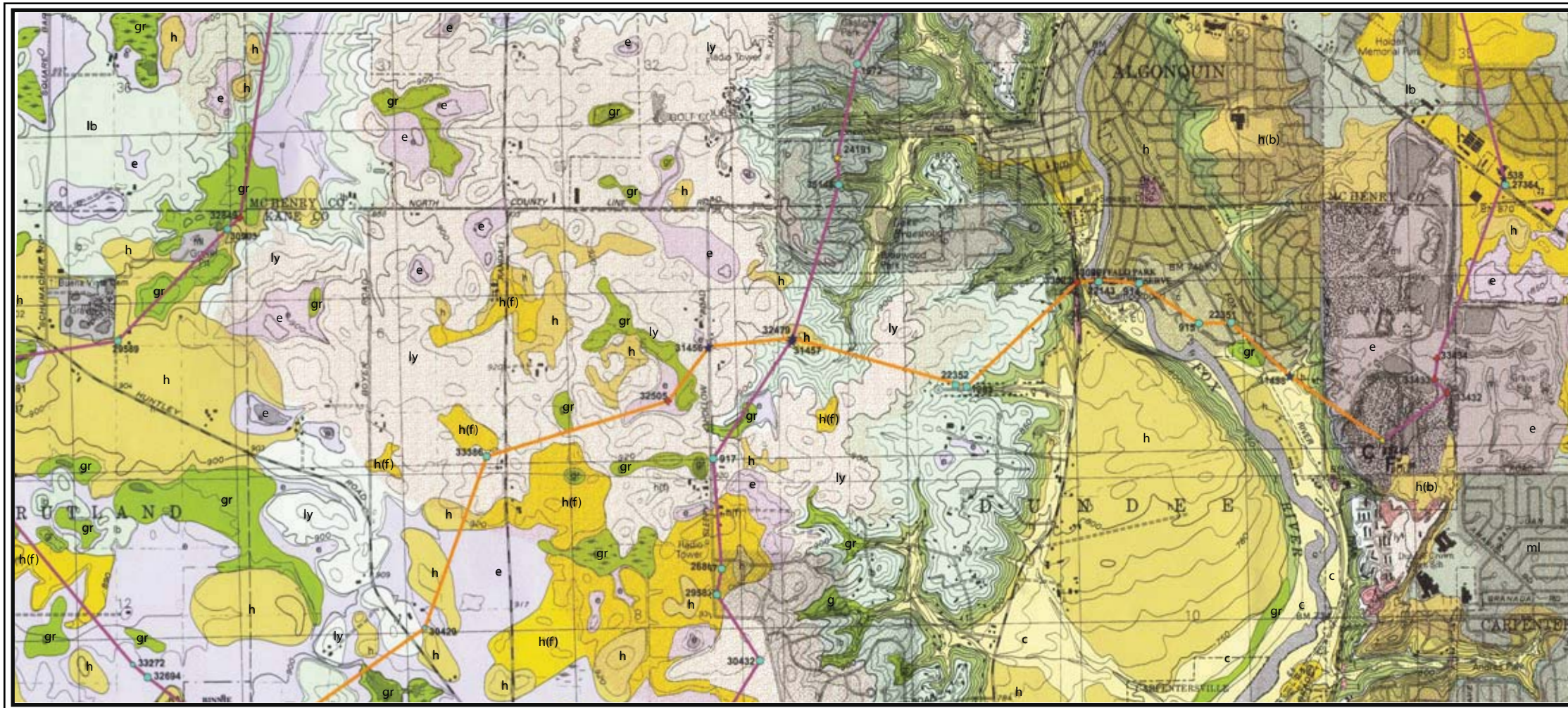
DRAWN BY: C. Marin
CHECKED BY: L. Jodache



1145 N. Main Street
Lombard, IL 60148
www.wangeng.com

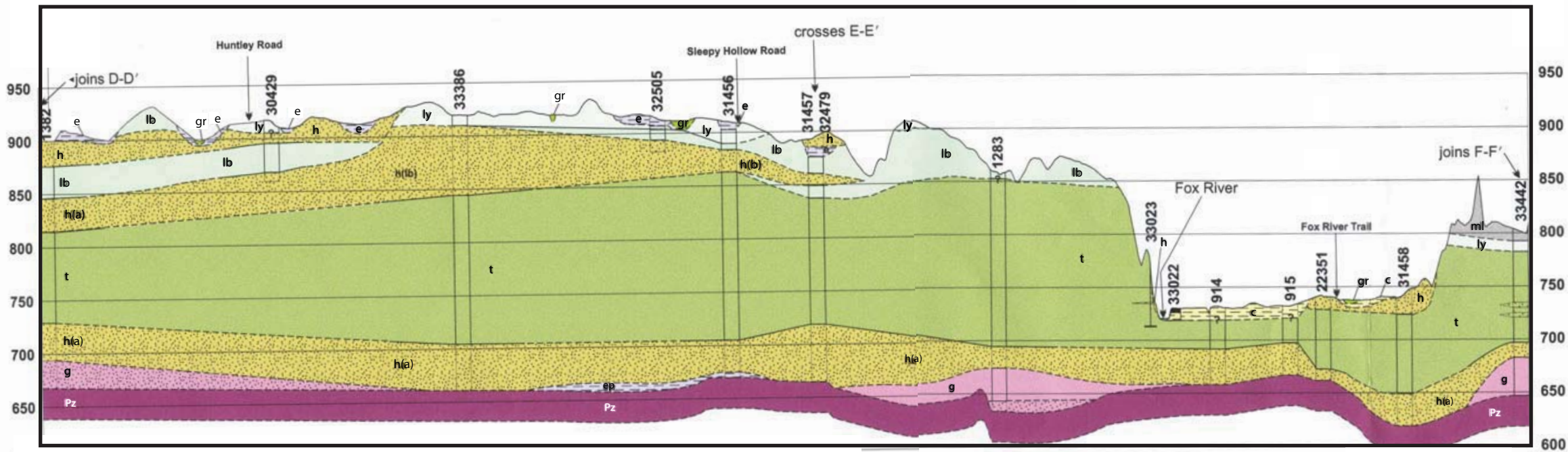
FOR MCDONOUGH ASSOCIATES, INC.

201-23-01



LITHOGRAPHIC UNITS

 ml	Made land
Hudson Episode (postglacial)	
 gr	Grayslake Peat Peat and muck; including interbedded sand, silty clay, and marl. Decomposed wetland vegetation and sediment.
 c	Cahokia Formation Sand and gravel, well-sorted sand, and lenses of peat adjacent to streams, grading laterally to organic-rich, fossiliferous silt and clay Floodplain sediment.
Hudson and Wisconsin Episode	
 e, ep	Equality Formation, Mason Group Silt, clay, and fine sand; layered to massive; fossiliferous in many places. Lake deposits in kettles and some valleys tributary to the Fox river.
Wisconsin Episode	
 h	Henry Formation, Mason Group Sand and gravel, or sand; contains lenses of silt and clay, or diamicton Outwash Deposits along valleys and beyond former glacier margins.
 h(f)	Henry Formation (fine facies), Mason Group Fine to medium sand; uniform to layered; with lenses of fossiliferous silt and loam diamicton at base. Lake sediment; slope deposits.
 lh	Haeger Member, Lemont Formation, Wedron Group Diamicton, sandy loam to loam; dolomite rich; includes lenses and layers of sand and gravel. Till and debris flow deposits.
 ly	Yorkville Member, Lemont Formation, Wedron Group Diamicton; silty clay, silty clay loam, and clay with thick lenses of sand and gravel Till and debris flow deposits where surficial; proglacial lake sediment and till where buried by the Haeger Member
 lb	Batestown Member, Lemont Formation, Wedron Group Sandy loam to loam with abundant cobbles; includes continuous layers of sand and gravel Till and debris flow deposits.
 h(b)	Henry Formation, Mason Group Assigned to the Beverly Tongue (hb) where buried by the Haeger Member.
 t	Tiskilwa Formation Diamicton; loam to clay loam with lenses of sand and gravel. Till and debris flow deposits.
 h(a)	Henry Formation, Mason Group Assigned to the Ashmore Tongue where buried by the Tiskilwa Formation.
Illinois Episode	
 g	Glasford Formation Diamicton; loam to sandy loam, bouldery with abundant lenses of coarse sand and gravel. Till and debris flow deposits, outwash and lacustrine sediments.
Paleozoic Bedrock	
 Pz	Kankakee and Joliet Formations (Silurian); Maquoketa Group Dolomite with chert lenses; gray to yellowish brown, fossiliferous, vuggy; also shaly dolomite and brown shale.



SITE AND REGIONAL GEOLOGY: BOLZ ROAD / LONGMEADOW PARKWAY OVER THE FOX RIVER, Kane County, IL

SCALE: GRAPHICAL EXHIBIT 2 DRAWN BY: Eric Datz
CHECKED BY: L. Lordache



APPENDIX A: Boring Logs



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-001

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 904.75 ft
 North: 1994270.28 ft
 East: 977920.44 ft
 Station: 2000+03.15
 Offset: 51.41 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	904.1	8-inch thick ASPHALT															
	903.6	--PAVEMENT--															
	902.3	6-inch thick GRAVEL			1	5 4 4 5	2.50 P	15									
		--BASE COURSE--															
	900.8	Very stiff, dark brown SILTY CLAY LOAM			2	3 4 10 12	NP	7									
		--FILL--															
		Medium dense, dark brown LOAM	5														
		Medium dense, brown GRAVELLY SAND			3	5 12 12 11	NP	6									
					4	7 6 5 7	NP	7									
	894.8	Medium dense, brown SANDY LOAM	10		5	6 8 9 9	NP	21									
	893.8																
		Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-01-2005** Complete Drilling **06-01-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **10.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-002

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 904.34 ft
 North: 1994120.39 ft
 East: 978180.77 ft
 Station: 2002+09.33
 Offset: 12.79 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	903.6	8-inch thick CRUSHED STONE AGGREGATE															
	902.3	--SHOULDER AGGREGATE--															
		Stiff, brown SILTY CLAY LOAM			1	2 4 5 4	1.00	18									
		Medium dense to dense, brown GRAVELLY SAND			2	6 8 10 10	NP	5									
			5		3	7 10 9 8	NP	7									
					4	4 6 6 6	NP	6									
			10		5	4 6 14 19	NP	8									
					6	14 16 15 15	NP	10									
	891.3	Boring terminated at 13.00 ft															
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-01-2005** Complete Drilling **06-01-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **10.00 ft**
 At Completion of Drilling ∇ **11.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-003

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 900.71 ft
 North: 1994035.73 ft
 East: 978464.21 ft
 Station: 2005+01.83
 Offset: 27.70 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	899.7	12-inch thick, black SILTY LOAM --TOPSOIL--			1	2 4 4	NP	19									
		Stiff, gray SILTY CLAY															
	897.2				2	3 3 4	1.25 P	24									
		Loose, brown SANDY LOAM															
			5		3	2 3 3 3	NP	20									
					4	3 3 3 6	NP	17									
	892.2																
		Medium dense, brown GRAVELLY SAND			5	7 7 7 7	NP	14									
	890.7		10														
		Boring terminated at 10.00 ft															

GENERAL NOTES

Begin Drilling **06-01-2005** Complete Drilling **06-01-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-004

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 903.62 ft
 North: 1993885.55 ft
 East: 978734.07 ft
 Station: 2008+08.46
 Offset: 12.68 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	902.8	10-inch thick ASPHALT --PAVEMENT--															
	902.1	18-inch thick CRUSHED STONE AGGREGATE --BASE COURSE--			1	6 3 3 6	1.50 P	10									
	900.1	Stiff, dark brown SILTY CLAY LOAM			2	4 7 8 11	1.50 P	31									
		Medium stiff, brown-gray CLAY LOAM	5														
	897.1				3	4 4 4 4	0.50 P	17									
		Medium dense, saturated, brown GRAVELLY SAND			4	3 6 6 6	NP	18									
			10		5	5 6 7 7	NP	15									
	892.6	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-01-2005** Complete Drilling **06-01-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling \blacktriangledown **10.50 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.



BORING LOG R-005

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 903.27 ft
 North: 1993826.40 ft
 East: 979032.44 ft
 Station: 2011+99.84
 Offset: 28.05 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	902.3	12-inch thick, dark brown SILTY LOAM --TOPSOIL--			1	3 3 3 4	NP	10									
	899.8	Medium dense, brown SILTY LOAM			2	3 6 12 11	NP	15									
		Medium dense, brown GRAVELLY SAND	5		3	10 17 11 11	NP	6									
					4	9 10 10 12	NP	18									
	893.3		10		5	7 10 10 7	NP	15									
		Boring terminated at 10.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-01-2005** Complete Drilling **06-01-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **7.00 ft**
 At Completion of Drilling \blacktriangledown **9.50 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-006

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 905.59 ft
 North: 1993686.65 ft
 East: 979301.39 ft
 Station: 2014+99.25
 Offset: 19.05 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	905.16	16-inch thick CRUSHED STONE AGGREGATE --SHOULDER AGGREGATE--															
		Very stiff, brown SILTY CLAY LOAM			1	3 3 5 7	2.50 P	20									
	901.6	Medium dense to dense, brown GRAVELLY SAND	5		2	4 8 15 16	NP	6									
					3	16 16 19 20	NP	5									
					4	5 13 12 12	NP	16									
					5	5 12 10 8	NP	12									
	894.6	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-01-2005** Complete Drilling **06-01-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **8.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-007

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 907.57 ft
 North: 1993645.96 ft
 East: 979568.72 ft
 Station: 2017+66.87
 Offset: 24.01 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	907.16	16-inch thick, brown SILTY LOAM --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY LOAM	0		1	3 4 4 7	1.00 P	20									
	905.1	Medium dense to dense, brown GRAVELLY SAND	4		2	4 5 6 9	3.00 P	18									
			5		3	6 15 19 23	NP	6									
					4	10 13 13 13	NP	6									
					5	5 10 10 11	NP	12									
	897.6	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-02-2005** Complete Drilling **06-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **9.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-008

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 908.30 ft
 North: 1993551.09 ft
 East: 979887.36 ft
 Station: 2021+0.04
 Offset: 0.00 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	907.3	12-inch thick, dark brown SILTY LOAM --TOPSOIL--	0		1	2 2 3 3	NP	18									
		Very stiff, brown SILTY CLAY LOAM	1		2	4 5 6 6	3.50 P	20									
	903.3		5		3	4 4 4 10	NP	10									
		Loose to dense, brown GRAVELLY SAND			4	8 17 19 19	NP	4									
					5	6 20 21 21	NP	8									
	898.3	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-02-2005** Complete Drilling **06-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **10.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-009

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 907.47 ft
 North: 1993519.17 ft
 East: 980185.41 ft
 Station: 2023+99.93
 Offset: 0.00 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	906.5	12-inch thick, dark brown SILTY LOAM --TOPSOIL-- Very loose to loose, brown LOAM	0		1	2 3 4 3	NP	15									
					2	1 2 1 2	NP	15									
			5		3	5 4 3 4	NP	12									
	901.0	Very stiff, brown SILTY CLAY LOAM			4	4 8 11 14	3.00 P	11									
	899.5	Medium dense, brown GRAVELLY SAND			5	4 7 7 7	NP	15									
	897.5	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-02-2005** Complete Drilling **06-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-010

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 910.41 ft
 North: 1993516.77 ft
 East: 980485.45 ft
 Station: 2027+00.06
 Offset: 0.02 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	909.4	12-inch thick, dark brown SILTY LOAM --TOPSOIL-- Stiff, dark brown SILTY CLAY LOAM	0		1	2 3 3	NP	16									
					2	3 5 6	1.50 P	19									
	905.4	Loose, brown LOAM	5		3	2 2 3	NP	13									
					4	1 3 3	NP	13									
	901.9	Medium dense, brown GRAVELLY SAND	10		5	4 11 13 18	NP	10									
	900.4	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-02-2005** Complete Drilling **06-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-011

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 914.62 ft
 North: 1993521.24 ft
 East: 980785.35 ft
 Station: 2030+00.00
 Offset: 0.06 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	913.6	12-inch thick, dark brown SILTY LOAM --TOPSOIL--			1	2 2 2	1.50	18									
	911.6	Stiff to very stiff, brown SILTY CLAY LOAM			2	3 3 7 8	2.00	22									
		Medium dense, brown SILT	5		3	5 6 9 13	NP	21									
	907.6	Medium dense, brown LOAM			4	4 18 9 11	NP	12									
	905.6	Medium dense to very dense, brown GRAVELLY SAND	10		5	5 9 20 24	NP	10									
	902.6	Boring terminated at 12.00 ft			6	5 26 28 23	NP	10									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-02-2005** Complete Drilling **06-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-012

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 915.93 ft
 North: 1993515.13 ft
 East: 981087.09 ft
 Station: 2033+01.74
 Offset: 2.41 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	915.3	8-inch thick, black SILTY LOAM				3											
	914.7	--TOPSOIL--			1	4	3.75	14									
		Very stiff, black and brown SILTY CLAY				5	P										
		Loose to medium dense, brown and gray SILTY LOAM			2	5	NP	19									
						4											
						5											
						6											
						7											
						9											
	909.2	Dense, gray LOAM			4	15	NP	16									
	908.4	Medium stiff, gray and brown CLAY, with interbedded silt lenses				16											
						12											
						3											
						3											
						4	0.50	23									
	906.2	Medium dense, brown, medium SAND			5	4	P										
						6											
						9											
						8	NP	13									
						11											
						14											
	903.9	Boring terminated at 12.00 ft			6												

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-11-2005** Complete Drilling **07-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME 55 TMR**
 Driller **J&D** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **7.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-013

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 916.88 ft
 North: 1993519.09 ft
 East: 981385.40 ft
 Station: 2036+00.10
 Offset: 0.15 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	916.46	6-inch thick, black SILTY LOAM --TOPSOIL--			1	3 5 8 12	4.00 P	15									
	915.4	Hard, brown and black SILTY CLAY LOAM			2	11 18 13 13	NP	7									
	913.4	Dense, brown GRAVELLY SAND			3	5 6 6 6	NP	22									
		Loose to medium dense, brown SANDY LOAM	5		4	4 5 4 6	NP	20									
	910.0	Stiff to very stiff, gray CLAY, with interbedded silt lenses			5	4 3 3 5	3.50 P	19									
			10		6	4 3 8 12	1.25 P	24									
	904.9	Boring terminated at 12.00 ft															
			15														
			20														
			25														

GENERAL NOTES

Begin Drilling **07-11-2005** Complete Drilling **07-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME 55 TMR**
 Driller **K** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **5.40 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-014

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 916.98 ft
 North: 1993522.60 ft
 East: 981685.27 ft
 Station: 2038+99.98
 Offset: 0.05 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	946.73	3-inch thick, black SILTY LOAM															
	916.2	--TOPSOIL--															
		Very stiff, black and gray SILTY CLAY LOAM			1	2589	2.50 P	25									
		Loose to medium dense, brown and gray SANDY LOAM, with gravel			2	6886	NP	12									
			5		3	3433	NP	21									
	910.7	Medium dense, gray SILTY LOAM			4	4667	NP	25									
	909.2	Medium dense, gray, fine SAND															
	908.5	Medium dense, gray SILTY LOAM			5	5778	NP	21									
	907.0	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-11-2005** Complete Drilling **07-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME 55 TMR**
 Driller **K** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **4.10 ft**
 At Completion of Drilling ∇ **3.30 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.



BORING LOG R-015

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 919.44 ft
 North: 1993527.62 ft
 East: 981985.24 ft
 Station: 2041+99.98
 Offset: 0.13 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	949.23	23-inch thick, black SILTY LOAM --TOPSOIL--			1	2 5 6 7	3.75 P	20									
	917.2	Very stiff, brown and gray SILTY CLAY LOAM			2	4 5 7 7	NP	24									
		Loose to medium dense, brown and gray SANDY LOAM			3	5 4 4 5	NP	17									
	911.9	Medium stiff, brown and gray CLAY, with interbedded silt lenses			4	4 5 6 7	NP	20									
	909.7	Medium dense, black and gray, fine SAND			5	2 4 4 5	0.50 P	24									
	908.7	Medium dense, gray SILTY LOAM			6	3 6 10 9	NP	30									
	907.4	Boring terminated at 12.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-11-2005** Complete Drilling **07-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME 55 TMR**
 Driller **K** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **7.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-016

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 916.93 ft
 North: 1993511.92 ft
 East: 982282.48 ft
 Station: 2045+00.01
 Offset: 19.78 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	946.73	73-inch thick, black SILTY LOAM --TOPSOIL--			1	4 5 6 7	1.50 P	24									
	915.4	Stiff, black, brown, and gray SILTY CLAY			2	3 3 5 7	NP	15									
	913.9	Loose, brown and gray SILTY LOAM			3	3 3 4 4	NP	26									
	910.4	Loose, gray and brown SANDY LOAM			4	5 6 10 11	NP	17									
	908.7	Medium dense, gray SILT			5	5 6 4 6	2.00 P	20									
	906.9	Very stiff, gray SILTY CLAY															
		Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-11-2005** Complete Drilling **07-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME 55 TMR**
 Driller **K** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **4.25 ft**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-017

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 920.65 ft
 North: 1993534.15 ft
 East: 982572.99 ft
 Station: 2047+96.01
 Offset: 5.52 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	920.0	8-inch thick, black SILTY LOAM --TOPSOIL--			1	2 7 8 9	4.00 P	20									
	918.4	Hard, black and brown SILTY CLAY			2	4 6 6 5	NP	13									
	916.1	Medium dense, brown and gray SANDY LOAM			3	2 2 2 2	NP	22									
	914.4	Very loose, brown and gray SILTY LOAM	5		4	3 5 4 8	NP	24									
	912.1	Loose, brown and gray SANDY LOAM			5	5 8 7 6	NP	18									
	910.6	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-11-2005** Complete Drilling **07-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME 55 TMR**
 Driller **K** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-018

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 923.11 ft
 North: 1993577.83 ft
 East: 982886.53 ft
 Station: 2050+96.63
 Offset: 23.93 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	922.4	9-inch thick, black SILTY LOAM --TOPSOIL--			1	3 6 6	2.25	16									
	921.6	Very stiff, brown SILTY CLAY															
		Medium dense, brown GRAVELLY SAND			2	3 14 12 10	NP	10									
			5		3	7 9 6 6	NP	10									
					4	4 6 8 6	NP	14									
	915.6	Loose, brown, coarse SAND			5	3 3 4 5	NP	24									
			10														
	912.6	Medium dense, brown and gray SILTY LOAM			6	4 6 12 12	NP	22									
	911.1	Medium dense, gray, fine SAND															
		Boring terminated at 12.00 ft															
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-11-2005** Complete Drilling **07-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME 55 TMR**
 Driller **K** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **2.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-019

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 923.59 ft
 North: 1993529.85 ft
 East: 983185.31 ft
 Station: 2053+99.90
 Offset: 19.72 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	923.3	3-inch thick, brown SILTY LOAM --TOPSOIL-- Stiff, dark brown SILTY CLAY LOAM			1	3 4 5 6	1.25 P	22									
	920.1	Loose, brown SANDY LOAM			2	3 5 6 5	1.75 P	22									
	918.1	Stiff to very stiff, brown SILTY CLAY LOAM	5		3	3 5 3 5	NP	13									
					4	2 2 4 5	1.25 P	18									
	914.1	Medium dense, brown and gray SILT	10		5	5 6 6 8	2.25 P	24									
	911.6	Boring terminated at 12.00 ft			6	6 10 10 7	NP	25									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-11-2005** Complete Drilling **07-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME 55 TMR**
 Driller **K** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-020

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 925.21 ft
 North: 1993528.04 ft
 East: 983482.34 ft
 Station: 2056+97.29
 Offset: 16.49 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	924.3	11-inch thick, black SILTY LOAM --TOPSOIL--			1	5 7 8 12	NP	17									
		Hard, black and brown SILTY CLAY LOAM			2	5 9 12 11	4.00 P	22									
	921.7	Medium dense, brown SILTY LOAM			3	5 6 7 8	NP	15									
	919.7	Stiff, brown SILTY CLAY LOAM	5		4	4 3 4 4	1.50 P	20									
					5	3 3 5 8	1.50 P	28									
	915.7	Loose to medium dense, brown SANDY LOAM	10		6	3 3 5 8	NP	24									
					7	4 7 10 11	NP	22									
	911.2	Boring terminated at 14.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-03-2005** Complete Drilling **06-03-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME 55 TMR**
 Driller **K** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **9.90 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-021

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 925.69 ft
 North: 1993546.06 ft
 East: 983785.04 ft
 Station: 2059+99.95
 Offset: 0.03 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	924.2	Loose, dark brown to black SILTY LOAM															
		--TOPSOIL--															
		Loose, brown SANDY LOAM			1	4 4 3 6	NP	13									
	922.2	Medium dense, brown GRAVELLY SAND			2	9 9 8 8	NP	7									
			5														
	920.2	Loose, brown SANDY LOAM			3	3 3 5 7	NP	25									
	917.9	Medium dense, brown GRAVELLY SAND			4	5 6 6 6	NP	10									
	916.2	Loose, brown SILT	10		5	3 4 5 7	NP	26									
	914.2	Medium dense, brown GRAVELLY SAND			6	5 9 9 11	NP	16									
	912.7	Boring terminated at 13.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-03-2005** Complete Drilling **06-03-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-022

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 924.54 ft
 North: 1993533.80 ft
 East: 984084.82 ft
 Station: 2062+99.98
 Offset: 0.18 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	923.5	12-inch thick, dark brown SILTY LOAM															
		--TOPSOIL--															
	922.0	Medium dense, brown SANDY LOAM			1	8 8 5 4	NP	13									
		Stiff, brown and gray SILTY CLAY LOAM			2	5 4 4 6	1.75 P	25									
	919.0	Loose, brown SILT			3	3 4 4 5	NP	20									
	916.8	Loose, brown LOAM			4	2 3 5 5	NP	14									
	915.0	Very stiff, brown SILTY CLAY LOAM	10		5	5 5 5	3.00 P	18									
	913.5	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-03-2005** Complete Drilling **06-03-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-023

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 922.91 ft
 North: 1993521.51 ft
 East: 984384.56 ft
 Station: 2065+99.97
 Offset: 0.08 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	921.9	12-inch thick black SILTY LOAM --TOPSOIL--															
		Loose to medium dense, gray GRAVELLY SAND			1	7 9 4 6	NP	11									
	918.9	Soft, gray SILTY CLAY LOAM	5		2	3 7 1 2	NP	7									
					3	1 1 1 2	0.25 P	29									
	914.9	Loose, brown and gray SANDY LOAM			4	1 3 3 5	NP	20									
			10		5	2 3 3 2	NP	20									
	911.4	Very soft, gray SILTY CLAY			6	1 0 0 0	0.10 P	25									
					7	0 0 1 2	0.00 P	22									
	907.4	Medium dense, gray LOAM			8	2 6 7 7	NP	11									
	905.9	Boring terminated at 17.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-03-2005** Complete Drilling **06-03-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-024

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 924.62 ft
 North: 1993508.70 ft
 East: 984684.33 ft
 Station: 2069+00.02
 Offset: 0.17 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	923.6	12-inch thick, dark brown SILTY LOAM															
		--TOPSOIL--															
		Medium dense, brown, medium SAND			1	5 6 8 8	NP	9									
	920.6	Soft to stiff, gray and brown SILTY CLAY LOAM	5		2	5 3 2 3	0.25 P	25									
					3	1 3 3 5	1.50 P	22									
	917.1	Loose, brown SANDY LOAM			4	1 2 6 9	NP	18									
	915.1	Very soft to medium stiff, gray SILTY CLAY	10		5	2 3 3 3	0.00 P	19									
					6	1 1 2 2	0.50 P	20									
			15		7	1 1 1 1	0.50 P	22									
	908.6	Medium dense, gray GRAVELLY SAND			8	6 7 8 11	NP	21									
	907.6	Boring terminated at 17.00 ft															
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-03-2005** Complete Drilling **06-03-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **16.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-025

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 922.65 ft
 North: 1993496.30 ft
 East: 984984.14 ft
 Station: 2072+00.08
 Offset: 0.02 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	921.6	12-inch thick, dark brown SILTY LOAM															
		--TOPSOIL--															
		Loose to medium dense, brown SANDY LOAM			1	3 6 4 4	NP	19									
	918.6	Stiff, gray SILTY CLAY	5		2	4 3 2 4	1.00 P	25									
	916.6	Loose, gray SILTY LOAM			3	4 4 5 5	NP	17									
					4	3 3 3 3	NP	19									
	913.1	Very soft to very stiff, gray SILTY CLAY LOAM	10		5	1 3 3 4	0.25 P	21									
					6	1 1 2 2	0.20 P	21									
					7	1 2 6 7	2.00 P	11									
	907.6	Boring terminated at 15.00 ft	15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-06-2005** Complete Drilling **06-06-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-026

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 922.63 ft
 North: 1993483.71 ft
 East: 985283.68 ft
 Station: 2074+99.89
 Offset: 0.06 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	921.6	12-inch thick, dark brown SILTY LOAM															
		--TOPSOIL--															
	920.1	Stiff, brown SILTY CLAY LOAM			1	3 3 2	1.75	24									
		Loose, brown SILTY LOAM					P										
	918.1	Loose, brown SANDY LOAM	5		2	3 3 6 5	NP	15									
	916.6	Loose, brown SILTY LOAM															
	914.6	Medium dense, brown GRAVELLY SAND			4	3 10 8 5	NP	10									
	913.9	Very stiff to hard, brown SILTY CLAY LOAM	10		5	1 1 3 6	2.00	15									
	909.6	Boring terminated at 13.00 ft			6	4 6 14 33	4.50	15									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-06-2005** Complete Drilling **06-06-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-027

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 921.00 ft
 North: 1993471.14 ft
 East: 985583.50 ft
 Station: 2077+99.96
 Offset: 0.07 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		36-inch, stiff to very stiff, black SILTY CLAY LOAM --TOPSOIL--			1	2 2 1 2	2.00 P	20									
	918.0	Medium stiff to stiff, brown and gray SILTY CLAY, with interbedded sand lenses			2	4 4 4 5	1.25 P	26									
			5		3	5 4 6 6	0.75 P	15									
	913.5	Medium dense, brown and gray SANDY LOAM			4	2 5 6 9	1.50 P	14									
			10		5	9 7 11 17											
	910.5	Very stiff, gray SILTY CLAY LOAM			6	4 16 7 8	0.75 P	13									
					7	3 4 7 9	2.25 P	11									
	907.0	Boring terminated at 14.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-27-2005** Complete Drilling **04-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME 55 TMR**
 Driller **K&D** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **9.00 ft**
 At Completion of Drilling ∇ **8.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-028

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 919.14 ft
 North: 1993453.47 ft
 East: 985893.25 ft
 Station: 2081+09.97
 Offset: 0.47 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	918.1	12-inch thick, black SILTY CLAY LOAM			1	3 3 3	2.75 P	17									
	917.4	--TOPSOIL--															
	916.1	Very stiff, brown and black SILTY CLAY			2	4 3 3	NP	12									
		--FILL--															
		Loose, brown LOAM				2 2 2											
		--FILL--															
	913.6	Medium stiff to very stiff, brown, black, and gray SILTY CLAY	5		3	3 3 3	0.75 P	20									
		--FILL--				4											
		Stiff to hard, brown SILTY CLAY			4	3 3 2 4	1.25 P	16									
	909.6	Medium stiff, gray SILT CLAY LOAM, with peat	10		5	3 2 4 4	4.25 P	13									
	907.6	Very soft, gray SILTY CLAY			6	2 3 3 3	0.50 P	62									
	905.6	Soft to stiff, gray SILTY CLAY LOAM	15		7	2 2 1 3	< 0.25 P	30									
					8	2 2 4 3	0.25 P	16									
	901.1	Boring terminated at 18.00 ft			9	1 2 3 4	1.25 P	15									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-27-2005** Complete Drilling **04-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME 55 TMR**
 Driller **K&D** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-029

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 917.45 ft
 North: 1993435.62 ft
 East: 986182.82 ft
 Station: 2083+99.81
 Offset: 0.01 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	916.9	6-inch thick ASPHALT															
	916.4	--PAVEMENT--															
		6-inch thick CRUSHED STONE AGGREGATE															
		--BASE COURSE--															
		Soft to very stiff, brown SILTY CLAY LOAM															
		--FILL--															
			5		1	5 7 7 7	3.00 P	11									
					2	10 6 6 9	2.25 P	14									
					3	4 5 5 6	1.50 P	13									
					4	4 5 7 7	1.75 P	15									
			10		5	3 3 3 4	0.25 P	16									
					6	5 5 4 4	2.50 P	15									
	904.9	Medium stiff to stiff, gray SILTY CLAY LOAM			7	3 3 5 4	0.50 P	15									
					8	4 4 4 5	0.50 P	14									
					9	2 4 6 5	1.25 P	13									
	898.4	Boring terminated at 19.00 ft	20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-27-2005** Complete Drilling **04-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME 55 TMR**
 Driller **K&D** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-030

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 919.55 ft
 North: 1993434.10 ft
 East: 986482.73 ft
 Station: 2086+99.96
 Offset: 0.02 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	919.34	3.4-inch thick, dark brown SILTY CLAY LOAM			1	6 5 5	4.50	10									
	918.6	--TOPSOIL-- Hard, black and brown SILTY CLAY			2	7 7 8	2.75	14									
	915.8	--FILL-- Very stiff, brown SILTY CLAY			3	7 8 8	NP	19									
		Medium dense, brown and gray LOAM	5		4	4 9 9	NP	12									
	913.8	Medium dense, brown GRAVELLY SAND			5	7 12 14	NP	12									
	909.6	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-27-2005** Complete Drilling **04-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME 55 TMR**
 Driller **K&D** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **6.25 ft**
 At Completion of Drilling ∇ **6.50 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.



BORING LOG R-031

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 921.25 ft
 North: 1993422.40 ft
 East: 986782.46 ft
 Station: 2089+99.92
 Offset: 0.09 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	921.04	0.4-inch thick, dark brown SILTY CLAY LOAM			1	4 7 5 9	3.25 P	17									
	918.8	Very stiff, brown SILTY CLAY LOAM			2	8 9 9 12	2.50 P	13									
		Medium dense, brown SANDY LOAM	5		3	6 6 7 8	NP	10									
					4	4 7 6 8	NP	10									
					5	5 5 8 10	NP	10									
	911.3	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-27-2005** Complete Drilling **04-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME 55 TMR**
 Driller **K&D** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **9.25 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-032

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 921.31 ft
 North: 1993410.59 ft
 East: 987082.36 ft
 Station: 2093+00.05
 Offset: 0.09 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	921.04	0.4-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL--			1	4 6 6 7	3.50 P	14									
	919.0	Very stiff, black and brown SILTY CLAY -FILL--			2	6 7 7 9	2.50 P	16									
	916.8	Stiff to very stiff, brown SILTY CLAY			3	6 9 13 11	1.75 P	11									
		Loose to medium dense, brown SANDY LOAM	5		4	4 4 4 5	NP	11									
					5	2 4 4 4	NP	12									
			10		6	4 5 6 6	NP	9									
					7	3 7 9 10	NP	9									
	907.3	Boring terminated at 14.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-27-2005** Complete Drilling **04-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME 55 TMR**
 Driller **K&D** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-033

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client McDonough Associates Inc.
 Project Longmeadow Parkway over Fox River, Section
 Location Co.

Datum: NGVD
 Elevation: 914.97 ft
 North: 1993426.60 ft
 East: 987383.31 ft
 Station: 2096+00.13
 Offset: 27.94 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)		
	914.0	Dark brown SILTY LOAM --TOPSOIL--				1	3 5 4 6	NP	13												
		Loose to medium dense, black SILTY LOAM				2	4 7 9 9	NP	31												
						3	3 3 3 3 5	NP	37												
	908.5	Very soft, black SILTY CLAY				4	2 4 4 4	0.20 P	68												
	906.5	Dark brown PEAT				5	3 2 3 3	NP	239												
	904.0	Very soft to medium stiff, gray SILTY CLAY LOAM				6	1 1 1 1	0.50 P	86												
						7	1 0 0 0	0.00 P	53												
						8	1 0 0 0	0.00 P	65												
						9	1 0 0 0	0.00 P	34												
	897.0	Very soft to stiff, gray SILTY CLAY LOAM				10	1 2 4 6	1.25 P	17												
	895.0	Boring terminated at 20.00 ft	20																		

GENERAL NOTES

Begin Drilling **06-06-2005** Complete Drilling **06-06-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME 55 TMR**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG R-034

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 920.60 ft
 North: 1993410.98 ft
 East: 987685.08 ft
 Station: 2098+99.69
 Offset: 26.61 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	919.6	12-inch thick, dark brown SILTY LOAM --TOPSOIL-- Very stiff to hard, brown SILTY CLAY LOAM			1	4 5 5 5	NP	22									
					2	5 7 7 9	> 4.50 P	21									
			5		3	11 9 10 11	> 4.50 P	12									
					4	6 6 17 22	3.50 P	12									
	912.1	Stiff, brown SILTY CLAY			5	3 6 7 8	1.50 P	17									
	910.1	Hard, brown and gray SILTY CLAY LOAM	10		6	4 8 11 14	> 4.50 P	11									
	906.6	Boring terminated at 14.00 ft	15		7	4 9 11 11	> 4.50 P	11									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-06-2005** Complete Drilling **06-06-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-035

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 915.86 ft
 North: 1993375.04 ft
 East: 987981.62 ft
 Station: 2102+00.01
 Offset: 0.01 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	914.9	12-inch thick, dark brown SILTY LOAM			1	3 3 5	NP	14									
		--TOPSOIL--															
	913.9	Loose, brown LOAM			2	5 7 6 7	4.50 P	17									
		Stiff to hard, brown SILTY CLAY LOAM															
			5		3	3 6 6 7	2.50 P	13									
					4	3 4 4 5	1.50 P	12									
	907.4	Medium dense, brown SANDY LOAM			5	3 5 5 5	NP	10									
			10		6	3 6 8 10	NP	11									
	903.9	Boring terminated at 12.00 ft															
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-06-2005** Complete Drilling **06-06-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-036

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 907.11 ft
 North: 1993363.18 ft
 East: 988281.41 ft
 Station: 2105+00.04
 Offset: 0.06 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	906.1	12-inch thick, black SILTY LOAM --TOPSOIL--			1	3 2 6	1.00	25									
	905.4	Stiff, brown SILTY CLAY --FILL--															
	904.1	Medium dense, brown SILTY LOAM --FILL--			2	3 5 5 11	0.50	32									
	902.6	Medium stiff, black SILTY CLAY LOAM Hard, brown SILTY CLAY LOAM	5		3	3 4 6 11	4.00	11									
	900.6	Medium dense, gray LOAM			4	3 7 7 8	NP	10									
					5	3 6 6 7	NP	9									
			10		6	5 10 9 11	NP	10									
	895.1	Boring terminated at 12.00 ft															
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-06-2005** Complete Drilling **06-06-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-037

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 909.94 ft
 North: 1993351.48 ft
 East: 988578.16 ft
 Station: 2108+00.01
 Offset: 0.05 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	909.46	6-inch thick, brown SANDY LOAM				3 3 3											
		--TOPSOIL--			1	2 4	3.50 P	15									
	907.4	Very stiff, brown SILTY CLAY LOAM				4 6 6											
		--FILL--			2	5 6	3.75 P	23									
	906.4	Very stiff, black and gray CLAY LOAM				2 2 4											
		Stiff, brown and gray CLAY	5		3	5	1.50 P	27									
	904.4	Very stiff, brown and gray SILTY CLAY				3 3 4 6											
					4	3 5 8	2.00 P	17									
					5	8	3.00 P	13									
	899.9	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-11-2005** Complete Drilling **04-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&R** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-038

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 911.73 ft
 North: 1993339.66 ft
 East: 988880.98 ft
 Station: 2111+00.04
 Offset: 0.05 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	911.26	6-inch thick, black CLAY LOAM --TOPSOIL-- Medium stiff to very stiff, brown SILTY CLAY LOAM			1	1 3 6 7	2.50 P	26									
					2	3 4 4 4	0.50 P	16									
			5		3	3 4 5 8	1.50 P	14									
					4	3 4 7 6	1.50 P	14									
					5	2 4 6 7	2.00 P	13									
	901.7	Boring terminated at 10.00 ft	10														
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-11-2005** Complete Drilling **04-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&R** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-039

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 910.78 ft
 North: 1993336.67 ft
 East: 989180.92 ft
 Station: 2114+00.01
 Offset: 0.00 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	910.1	8-inch thick, black CLAY LOAM --TOPSOIL--			1	3 5 7 8	2.00 P	12									
		Very stiff to hard, brown SILTY CLAY LOAM --FILL--			2	4 5 7 8	3.00 P	17									
			5		3	5 10 8 9	3.75 P	12									
	905.3	Stiff, brown SILTY CLAY LOAM I			4	4 4 5 6	1.00 P	14									
					5	4 5 8 12	1.00 P	13									
	900.8	Boring terminated at 10.00 ft	10														
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-11-2005** Complete Drilling **04-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&R** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-040

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 911.67 ft
 North: 1993334.71 ft
 East: 989481.92 ft
 Station: 2117+00.0
 Offset: 0.04 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	911.26	6-inch thick, black SILTY LOAM --TOPSOIL--			1	2 5 6	1.50 P	10									
	910.2	Stiff, brown SILTY CLAY LOAM, with gravel --FILL--			2	3 3 4 5	2.25 P	15									
		Very stiff to hard, brown and gray SILTY CLAY LOAM			3	2 2 4 7	2.75 P	14									
					4	5 8 12 16	4.00 P	13									
					5	8 11 11 14	3.50 P	10									
	901.7	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-11-2005** Complete Drilling **04-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&R** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-041

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 909.39 ft
 North: 1993332.78 ft
 East: 989780.94 ft
 Station: 2120+00.04
 Offset: 0.04 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	908.9	6-inch thick, dark brown CLAY LOAM			1	2 3 3 6	2.00 P	17									
		--TOPSOIL--															
	906.9	Very stiff, brown SILTY CLAY, with gravel			2	7 11 11 13	NP	10									
		--FILL--															
		Medium dense, brown SANDY LOAM	5		3	9 6 5 4	NP	12									
	903.6	Very stiff, brown SILTY CLAY LOAM			4	5 5 6 9	2.00 P	12									
					5	9 12 11 18	2.00 P	10									
	899.4	Boring terminated at 10.00 ft	10														
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-11-2005** Complete Drilling **04-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&R** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-042

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 903.99 ft
 North: 1993331.03 ft
 East: 990075.27 ft
 Station: 2123+00.12
 Offset: 0.14 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	903.4	7-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL--			1	3 3 4 15	1.75 P	13									
		Stiff to very stiff, brown SILTY CLAY LOAM --FILL			2	8 10 8 9	1.00 P	10									
			5		3	4 4 4 6	2.50 P	17									
					4	3 2 3 4	1.50 P	32									
	895.7	Stiff, brown and gray SILTY CLAY LOAM			5	2 2 3 5	1.50 P	24									
	894.0	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-11-2005** Complete Drilling **04-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&R** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-043

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 905.70 ft
 North: 1993328.72 ft
 East: 990380.78 ft
 Station: 2125+99.90
 Offset: 0.25 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	905.2	6-inch thick, brown CLAY LOAM --TOPSOIL--															
		Loose, brown LOAM			1	2 2 3 4	NP	22									
	903.5	Loose to medium dense, brown SILT, with interbedded sand lenses			2	1 2 4 8	NP	20									
	900.5	Very stiff to hard, brown and gray SILTY CLAY LOAM, gravelly			3	4 9 11 15	NP	16									
					4	6 7 11 17	2.00 P	10									
					5	6 11 12 15	4.00 P	11									
	895.7	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-12-2005** Complete Drilling **04-12-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-044

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 904.68 ft
 North: 1993327.00 ft
 East: 990680.86 ft
 Station: 2128+99.98
 Offset: 0.04 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	904.26	6-inch thick, brown CLAY LOAM --TOPSOIL--															
		Stiff, brown CLAY LOAM			1	2 5 4 5	1.75 P	15									
	902.2	Medium dense, brown SILT			2	3 5 7 7	NP	17									
	900.7	Very stiff to hard, brown SILTY CLAY LOAM	5		3	3 4 7 6	2.00 P	15									
					4	5 8 11 13	3.50 P	13									
			10		5	7 12 15 14	4.00 P	10									
					6	6 11 12 13	4.00 P	12									
	891.7	Boring terminated at 13.00 ft															
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-12-2005** Complete Drilling **04-12-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-045

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 888.11 ft
 North: 1993325.00 ft
 East: 990980.99 ft
 Station: 2132+00.11
 Offset: 0.12 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	887.6	6-inch thick, black CLAY LOAM --TOPSOIL--			1	1 2 3 4	0.50 P	32									
		Stiff to hard, brown SILTY CLAY LOAM			2	2 2 4 5	1.75 P	20									
					3	6 7 8 9	4.00 P	13									
	881.6	Medium dense, brown SILT			4	4 7 8 9	4.50 P	14									
	880.9	Hard, brown SILTY CLAY															
	879.6	Medium dense, gray LOAM, gravelly			5	8 9 15 16	NP	8									
	878.1	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-13-2005** Complete Drilling **04-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-046

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 881.33 ft
 North: 1993323.14 ft
 East: 991280.86 ft
 Station: 2134+99.99
 Offset: 0.05 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	880.3	12-inch thick, black CLAY LOAM --TOPSOIL--			1	1 4 4 4	2.50 P	26									
		Very stiff, brown SILTY CLAY			2	1 3 4 4	2.00 P	24									
	877.1	Loose, brown SILTY LOAM	5		3	2 3 3 4	NP	23									
	875.8	Stiff, brown and black SILTY CLAY			4	5 5 7 8	1.50 P	23									
	872.3	Medium dense, gray SILT			5	3 6 5 5	4.00 P	13									
	871.8	Hard, gray SILTY CLAY LOAM	10														
	871.3	Boring terminated at 10.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-13-2005** Complete Drilling **04-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-047A

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 881.10 ft
 North: 1993324.67 ft
 East: 991717.36 ft
 Station: 2139+36.52
 Offset: 0.83 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	880.6	6-inch thick, brown CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY LOAM			1	2 4 4 5	2.25 P	17									
					2	2 4 4 3	1.25 P	16									
			5		3	2 4 3 7	2.25 P	16									
	874.9	Medium dense, brown LOAM			4	5 6 7 13	NP	10									
	872.1	Dense, brown GRAVELLY SAND			5	4 11 23 25	NP	8									
	871.1	Boring terminated at 10.00 ft	10														
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-13-2005** Complete Drilling **04-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-048

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 885.42 ft
 North: 1993328.06 ft
 East: 991880.74 ft
 Station: 2140+99.94
 Offset: 0.09 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	884.9	6-inch thick, black and brown CLAY LOAM			1	1 4 3 3	1.75	20									
		--TOPSOIL--															
	883.7	Stiff, brown CLAY LOAM			2	2 2 3 2	0.50	27									
		Medium stiff, brown SILTY CLAY															
	880.4	Loose to medium dense, brown SANDY LOAM	5		3	3 3 3 4	NP	16									
	877.4	Very stiff, brown SILTY CLAY LOAM			4	3 5 7 8	NP	11									
	875.4	Boring terminated at 10.00 ft	10		5	6 6 7 7	2.50	10									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-13-2005** Complete Drilling **04-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-049

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 890.20 ft
 North: 1993337.75 ft
 East: 992180.53 ft
 Station: 2143+99.89
 Offset: 0.05 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	889.76	6-inch thick, black LOAM --TOPSOIL--			1	0 1 2	NP	14									
	888.2	Very loose, brown LOAM			2	1 3 2 4	1.00 P	18									
		Stiff, brown CLAY LOAM			3	1 2 3 4	1.50 P	21									
	884.5	Very stiff, brown SILTY CLAY LOAM			4	3 5 7 7	2.25 P	17									
					5	4 7 8 8	2.50 P	12									
	880.2	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-13-2005** Complete Drilling **04-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-055

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 816.45 ft
 North: 1993209.16 ft
 East: 993968.19 ft
 Station: 2162+00.00
 Offset: 0.10 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	815.5	12-inch thick, brown SILTY LOAM			1	3 5 12 12	NP	9									
		--TOPSOIL--															
		Medium stiff to stiff, brown CLAY LOAM			2	6 5 5 6	1.25 P	12									
			5		3	3 3 4 4	0.75 P	21									
	809.0				4	1 2 3 4	NP	15									
	808.0	Loose, brown SANDY LOAM															
		Very soft, brown CLAY LOAM			5	1 2 2 4	0.00 P	25									
			10		6	1 1 1 2	0.00 P	24									
					7	1 1 1 2	0.00 P	21									
	801.5		15		8	1 2 1 2	0.20 P	21									
		Very stiff, brown SILTY CLAY LOAM			9	2 5 8 12	2.75 P	14									
	798.5																
		Boring terminated at 18.00 ft															
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-07-2005** Complete Drilling **06-07-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-056

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 802.48 ft
 North: 1993155.43 ft
 East: 994263.34 ft
 Station: 2165+00.00
 Offset: 0.03 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	801.5	12-inch thick, brown CLAY LOAM			1	2576	3.00 P	12									
		--TOPSOIL--															
		Medium dense, black SILTY LOAM			2	7667	NP	28									
	798.0	Medium stiff to stiff, brown SILTY CLAY LOAM	5		3	3455	1.50 P	27									
					4	2344	0.50 P	24									
	794.0	Medium dense, brown SANDY LOAM	10		5	33811	NP	15									
	791.5	Medium dense to dense, brown GRAVELLY SAND			6	7745	NP	11									
	788.5	Boring terminated at 14.00 ft	15		7	61616	NP	9									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-07-2005** Complete Drilling **06-07-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-057

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 806.75 ft
 North: 1993160.11 ft
 East: 994576.81 ft
 Station: 2168+06.32
 Offset: 67.59 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	806.1	8-inch thick, dark brown SILTY CLAY --TOPSOIL--			1	1 2 3 4	1.25 P	23									
	803.3	Stiff, brown and black SILTY CLAY			2	2 2 5 4	1.50 P	24									
	801.3	Loose, brown SANDY LOAM			3	1 2 2 1	NP	18									
		Medium dense, brown GRAVELLY SAND			4	5 9 10 10	NP	5									
					5	4 10 9 11	NP	4									
	796.8	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-03-2005** Complete Drilling **05-03-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **W. Wang** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-058

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 800.61 ft
 North: 1993061.01 ft
 East: 994853.80 ft
 Station: 2170+97.83
 Offset: 12.74 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	799.1	18-inch thick, black SILTY CLAY LOAM --TOPSOIL--	0		1	2 3 3 5	1.25 P	22									
		Stiff, brown SILTY CLAY LOAM			2	2 3 3 5	1.50 P	25									
	795.1	Loose, brown SANDY LOAM	5		3	2 3 2 4	1.00 P	21									
	793.1	Stiff to very stiff, brown and gray SILTY CLAY LOAM			4	2 3 3 5	NP	13									
			10		5	2 1 3 6	2.25 P	14									
	788.6	Boring terminated at 12.00 ft			6	2 3 8 6	1.25 P	13									
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-03-2005** Complete Drilling **05-03-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **W. Wang** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-059

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 804.28 ft
 North: 1993007.25 ft
 East: 995150.73 ft
 Station: 2174+00.01
 Offset: 0.36 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	803.7	7-inch thick, black and brown SILTY CLAY LOAM			1	1 2 2	2.00	25									
	802.8	--TOPSOIL--			2	2 5 7 8	NP	5									
		Very stiff, black and brown SILTY CLAY LOAM			3	5 8 11 9	NP	4									
		Medium dense, brown GRAVELLY SAND			4	5 7 6 8	NP	3									
					5	5 7 8 8	NP	3									
					6	3 7 8 8	NP	4									
	792.3	Boring terminated at 12.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-02-2005** Complete Drilling **05-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **W. Wang** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-060

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 806.17 ft
 North: 1992996.80 ft
 East: 995450.42 ft
 Station: 2177+00.03
 Offset: 0.00 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	805.6	7-inch thick, black and brown SILTY CLAY LOAM --TOPSOIL-- Stiff, brown SILTY CLAY LOAM			1	1 2 3 3	1.25 P	26									
					2	2 3 3 5	1.50 P	23									
	801.7	Medium dense, brown GRAVELLY SAND	5		3	2 6 7 9	NP	6									
					4	9 10 16 16	NP	2									
					5	6 11 16 14	NP	3									
	796.2	Boring terminated at 10.00 ft	10														
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-02-2005** Complete Drilling **05-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **W. Wang** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-061

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 802.83 ft
 North: 1993018.15 ft
 East: 995749.37 ft
 Station: 2179+99.88
 Offset: 0.07 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	802.3	7-inch thick, black SILTY CLAY LOAM			1	2 2 3 5	1.25 P	26									
		--TOPSOIL-- Stiff, brown SILTY CLAY LOAM															
	799.3	Medium dense, brown GRAVELLY SAND			2	2 3 4 8	1.50 P	21									
			5		3	4 7 9 11	NP	5									
					4	9 15 10 10	NP	4									
					5	16 13 14 11	NP	2									
	792.8	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-02-2005** Complete Drilling **05-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **W. Wang** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-062

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 796.84 ft
 North: 1993070.53 ft
 East: 996044.81 ft
 Station: 2183+00.08
 Offset: 0.02 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	796.0	10-inch thick, black SILTY LOAM --TOPSOIL--			1	2 3 3 5	1.25	41									
		Stiff, black SILTY CLAY LOAM			2	2 3 3 5	1.75	23									
	792.3	Stiff to very stiff, brown SILTY CLAY LOAM	5		3	2 5 7 8	2.75	20									
	789.1	Very soft, brown SANDY CLAY LOAM, gravelly			4	2 3 3 4	1.50	25									
					5	2 2 2 2	< 0.25	30									
	785.3	Very loose to loose, brown GRAVELLY SAND			6	2 2 2 4	< 0.25	22									
					7	2 3 2 2	NP	17									
			15		8	4 3 4 8	NP	19									
					9	2 1 2 1	NP	12									
	778.8	Boring terminated at 18.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-02-2005** Complete Drilling **05-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **W. Wang** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-063

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 799.27 ft
 North: 1993153.59 ft
 East: 996332.87 ft
 Station: 2186+00.01
 Offset: 0.04 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	798.4	10-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL--	0	X	1	2 3 2 4	0.75 P	25									
		Medium stiff to very stiff, brown SILTY CLAY LOAM	1	X	2	2 2 4 4	2.00 P	22									
	795.5	Very loose to medium dense, brown SAND	5	X	3	1 1 2 2	NP	9									
			10	X	4	3 3 4 3	NP	5									
			10	X	5	2 6 6 7	NP	8									
	788.8	Dense, brown GRAVELLY SAND	10	X	6	5 14 27 16	NP	3									
787.3	Boring terminated at 12.00 ft	12															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-02-2005** Complete Drilling **05-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **W. Wang** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-064

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 808.26 ft
 North: 1993254.71 ft
 East: 996615.27 ft
 Station: 2188+99.97
 Offset: 0.13 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	807.3	12-inch thick, black and brown SILTY LOAM --TOPSOIL--			1	2 2 3 3	1.00 P	24									
	804.5	Stiff to very stiff, brown SILTY CLAY LOAM			2	2 3 4 4	2.25 P	25									
		Medium dense, brown SAND	5		3	2 5 5 10	NP	4									
					4	4 5 5 6	NP	4									
					5	6 6 9 9	NP	3									
			10		6	3 7 8 8	NP	4									
					7	4 6 6 10	NP	4									
					8	2 6 8 6	NP	3									
	792.3	Boring terminated at 16.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-02-2005** Complete Drilling **05-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **W. Wang** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-065

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 810.17 ft
 North: 1993355.81 ft
 East: 996897.65 ft
 Station: 2191+99.90
 Offset: 0.03 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	809.6	7-inch thick, black SILTY CLAY LOAM			1	1 2 3 5	1.00	25									
		--TOPSOIL--															
		Stiff, brown SILTY CLAY LOAM			2	1 2 3	1.75	25									
	805.9	Medium dense, brown GRAVELLY SAND	5		3	4 8 12 17	NP	7									
	803.2	Medium dense, brown, medium SAND			4	15 15 13 13											
					5	6 8 8 10	NP	4									
	800.2	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-02-2005** Complete Drilling **05-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **W. Wang** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-066

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 813.48 ft
 North: 1993452.67 ft
 East: 997181.52 ft
 Station: 2194+99.91
 Offset: 0.02 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	812.9	7-inch thick, brown and black SILTY LOAM --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY LOAM	0		1	2 2 3 3	1.75 P	24									
					2	2 2 3 4	1.50 P	23									
	808.5	Medium dense to dense, brown GRAVELLY SAND	5		3	3 5 6 10	2.00 P	16									
					4	8 19 12 17	NP	4									
					5	8 15 15 16	NP	4									
			10		6	13 17 14 12	NP	3									
					7	6 7 10 15	NP	3									
	799.5	Boring terminated at 14.00 ft	15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-02-2005** Complete Drilling **05-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **W. Wang** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-075

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 829.46 ft
 North: 1993556.84 ft
 East: 1001372.87 ft
 Station: 2236+99.75
 Offset: 0.39 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	828.7	Dense, brown and gray GRAVELLY SAND --FILL--			1	16 24 12 9	NP	3									
		Stiff to very stiff, brown, and gray SILTY CLAY LOAM --FILL--			2	11 9 10 10	2.50 P	17									
			5		3	8 7 7 6	1.25 P	19									
	824.0	Medium dense, gray LOAM, gravelly --FILL--			4	8 6 4 4	NP	10									
	821.0	Very soft, brown and black CLAY LOAM --FILL--	10		5	4 3 3 4	NP	10									
	818.0	Medium dense, brown GRAVELLY SAND			6	3 1 2 5	0.25 P	20									
	815.5	Boring terminated at 14.00 ft	15		7	6 9 13 11	NP	3									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-13-2005** Complete Drilling **07-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-076

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 833.68 ft
 North: 1993549.41 ft
 East: 1001675.66 ft
 Station: 2240+04.53
 Offset: 6.65 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	832.2	Dense, brown GRAVELLY SAND			1	10 15 17 19	NP	4									
		--FILL--															
	830.7	Dense, brown SAND			2	19 18	4.50	10									
	829.9	Hard, black, brown and gray SILTY CLAY				13 16	P										
		--FILL--															
		Very stiff to medium stiff, brown SILTY CLAY LOAM	5		3	10 5 8 7	3.25	21									
	827.2	Medium dense, brown SILTY LOAM			4	8 4 6 7	NP	18									
	825.8	Dense, brown GRAVELLY SAND			5	11 20 17 11	NP	5									
	823.7	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-13-2005** Complete Drilling **07-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-079

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 864.39 ft
 North: 1993562.49 ft
 East: 1002573.18 ft
 Station: 2249+00.08
 Offset: 0.35 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	864.14	14-inch thick, brown SILTY LOAM --TOPSOIL-- Dense to very dense, brown GRAVELLY SAND	0		1	5 16 14 17	NP	1									
					2	15 17 25 36	NP	3									
				5	3	19 38 49 30	NP	3									
					4	22 19 50/3"	NP	4									
					5	39 33 39 50/3"	NP	3									
	854.6	Boring terminated at 9.75 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-22-2005** Complete Drilling **07-22-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 TMR**
 Driller **L&D** Logger **W. Wang** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-080

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 870.52 ft
 North: 1993564.86 ft
 East: 1002873.15 ft
 Station: 2252+00.06
 Offset: 0.05 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	870.33	3-inch thick, dark brown SILTY LOAM --TOPSOIL--	0		1	3 5 4 5	2.00 P	14									
		Very stiff, brown SILTY CLAY LOAM			2	11 6 6 8	3.00 P	16									
	867.0	Dense to very dense, brown GRAVELLY SAND			3	18 22 25 14	NP	4									
					4	11 21 22 27	NP	5									
					5	13 40 28 39	NP	4									
	860.5	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-21-2005** Complete Drilling **07-21-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 TMR**
 Driller **J&R** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-081

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 874.33 ft
 North: 1993567.53 ft
 East: 1003173.07 ft
 Station: 2254+99.99
 Offset: 0.05 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	874.13	13-inch thick, brown SILTY LOAM --TOPSOIL-- Stiff, brown CLAY LOAM	0		1	3 4 5 6	1.50 P	14									
	871.8	Medium dense to dense, brown GRAVELLY SAND	5		2	9 9 36 18	NP	3									
			5		3	9 15 13 22	NP	6									
					4	17 17 11 9	NP	10									
					5	6 11 12 15	NP	3									
	864.3	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-21-2005** Complete Drilling **07-21-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 TMR**
 Driller **J&R** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-082

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 880.06 ft
 North: 1993571.41 ft
 East: 1003473.90 ft
 Station: 2257+99.83
 Offset: 0.27 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	879.1	12-inch thick black SILTY LOAM --TOPSOIL--			1	2 3 4 5	NP	12									
	876.6	Very stiff, black, brown and gray SILTY CLAY LOAM --FILL--			2	12 7 8 7	3.50 P	15									
	873.8	Medium dense, brown and black SILTY LOAM --FILL--	5		3	10 6 9 10	NP	22									
	872.6	Stiff to very stiff, brown and gray SILTY CLAY LOAM --FILL--			4	2 4 5 5	1.00 P	21									
	869.6	Very stiff, black SILTY CLAY LOAM --BURIED TOPSOIL--	10		5	6 5 8 7	3.00 P	22									
	869.6	Soft to stiff, brown SILTY CLAY			6	6 7 8 8	1.75 P	24									
					7	5 5 6 6	1.00 P	26									
			15		8	4 4 5 7	0.25 P	24									
	862.6	Very dense, brown GRAVELLY SAND			9	2 2 3 19	0.50 P	23									
	861.2	Boring terminated at 18.83 ft			10	17 50/4"	NP	3									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-20-2005** Complete Drilling **07-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&D** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-083

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 882.24 ft
 North: 1993573.15 ft
 East: 1003773.14 ft
 Station: 2261+00.09
 Offset: 0.32 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	882.0	0.2-inch thick, brown SANDY LOAM			1	6 12 6 4	NP	10									
	881.3	--TOPOSOIL--															
		Medium dense, brown LOAM															
		--FILL--															
	879.2	Very stiff, brown and gray SILTY CLAY			2	7 5 3 4	3.75 P	16									
		--FILL--															
		Medium dense, brown SANDY LOAM	5		3	7 9 6 4	NP	9									
	876.7	--FILL--															
		Stiff, brown and black SILTY CLAY LOAM			4	5 3 5 4	1.50 P	23									
		--BURIED TOPSOIL--															
	873.7	Very soft to very stiff, brown SILTY CLAY	10		5	3 4 4 5	2.00 P	24									
					6	4 3 4 5	1.50 P	26									
					7	3 3 4 5	< 0.25 P	23									
	868.0	Loose, brown SILTY LOAM	15		8	1 1 4 4	NP	18									
	866.7	Medium dense, brown, GRAVELLY SAND			9	8 9 19 16	NP	7									
	864.2	Boring terminated at 18.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-20-2005** Complete Drilling **07-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&D** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-084

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 885.19 ft
 North: 1993575.41 ft
 East: 1004074.38 ft
 Station: 2264+01.33
 Offset: 0.09 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	885.02	0.2-inch thick, dark brown SANDY LOAM --TOPSOIL--			1	7 8 8 10	4.50 P	13										
	882.7	Hard, dark brown CLAY LOAM --FILL--			2	10 14 10 10	NP	3										
		Medium dense, brown GRAVELLY SAND	5		3	4 6 8 13	NP	3										
	877.7	Medium dense, brown SILT			4	12 8 8 5	NP	3										
	876.2	Medium dense to very dense, brown GRAVELLY SAND	10		5	10 9 20 41	NP	17										
					6	14 28 20 40	NP	2										
					7	16 27 23 25	NP	15										
	870.9	Boring terminated at 14.25 ft	15		8	50/3"	NP	4										

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-22-2005** Complete Drilling **07-22-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 TMR**
 Driller **L&D** Logger **W. Wang** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-085

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 883.40 ft
 North: 1993578.45 ft
 East: 1004373.13 ft
 Station: 2267+00.11
 Offset: 0.28 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	882.9	6-inch thick, dark brown LOAM --TOPSOIL--			1	2 5 10 10	NP	15									
	881.9	Medium dense, brown SANDY LOAM --FILL--			2	18 8 10 9	4.50 P	16									
	878.9	Hard, brown CLAY LOAM --FILL--			3	12 8 6 16	NP	19									
	877.9	Medium dense, brown SANDY LOAM	5		4	18 16 14 12	NP	5									
		Dense, brown GRAVELLY SAND			5	16 20 20 19	NP	5									
	873.4	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-22-2005** Complete Drilling **07-22-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 TMR**
 Driller **L&D** Logger **W. Wang** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-086

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 892.37 ft
 North: 1993580.73 ft
 East: 1004672.61 ft
 Station: 2269+99.59
 Offset: 0.10 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	891.6	9-inch thick, brown SILTY CLAY LOAM			1	6 8 46 11	> 4.50 P	13									
	890.9	--TOPSOIL--															
		Very dense, gray GRAVEL				11											
		--FILL--															
		Medium stiff to stiff, black, brown, and gray SILTY CLAY LOAM			2	5 4 5	0.75 P	20									
		--FILL--															
			5														
	886.9	Loose, brown LOAM			3	3 2 3 3	1.50 P	23									
	885.4	Dense, brown GRAVELLY SAND			4	2 2 4 11	NP	10									
					5	13 19 18 12	NP	4									
	882.4	Boring terminated at 10.00 ft	10														
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-14-2005** Complete Drilling **07-14-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-087

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 903.37 ft
 North: 1993583.46 ft
 East: 1004970.38 ft
 Station: 2272+97.40
 Offset: 0.87 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	903.1	Black LOAM															
	902.1	--TOPSOIL--															
		Hard, brown CLAY LOAM			1	8 14 23	NP	6									
		Medium dense to dense, brown GRAVELLY SAND with cobbles	5		2	8 12 13	NP	4									
					3	13 18 31	NP	3									
			10		4	18 22 16											
					5	11 16 13 14	NP	3									
					6	8 13 13 14	NP	2									
			15		7	5 16 18 22	NP	3									
					8	17 15 13 15	NP	2									
	884.4	Very stiff, brown and gray SILTY CLAY	20		9	8 8 10 12	NP	5									
	881.4	Boring terminated at 22.00 ft			10	6 7 7 12	2.00 P	17									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **12-16-2005** Complete Drilling **12-16-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&B** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-088

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 905.69 ft
 North: 1993646.58 ft
 East: 1005262.56 ft
 Station: 2275+96.39
 Offset: 3.96 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	905.4	Black LOAM								880.2	Meidum dense, brown GRAVELLY SAND		○	12	15 11 12		
	904.9	--TOPSOIL--															
	904.4	Brown gravelly SAND			1	2 5 7	NP	5									
		Loose, black SILTY LOAM															
		--BURIED TOPSOIL--															
	902.7	Medium dense, brown LOAM			2	6 27 15	4.50 P	15									
		Hard, brown SILTY CLAY LOAM															
			5														
	899.4	Medium dense, brown GRAVELLY SAND with cobbles and silty clay loam interbedded lenses			3	5 8 7	NP	9									
					4	11 14 11	NP	2									
			10														
					5	8 12 8 5	NP	2									
					6	10 8 9 9	NP	3									
	892.4	Medium dense, brown, fine to medium SAND			7	9 5 5 7	NP	4									
			15														
					8	7 11 13 21	NP	3									
	889.2	Medium dense, brown GRAVELLY SAND with cobbles			9	7 7 8 7	NP	4									
					10	11 11 13 14	NP	4									
			20														
					11	3 5 10 10	3.50 P	17									
	884.2	Very stiff, brown and gray SILTY CLAY with silt and gravelly sand interbedded lenses															
			25			8											

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **12-16-2005** Complete Drilling **12-16-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&B** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG R-089

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 905.98 ft
 North: 1993781.18 ft
 East: 1005531.32 ft
 Station: 2278+99.94
 Offset: 0.03 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	905.7	Brown SILTY LOAM															
	905.2	--TOPSOIL--															
		Brown CLAY LOAM with cobbles			1	4 4 3	NP	4									
		Loose to medium dense, brown GRAVELLY SAND			2	6 7 6	NP	11									
					3	8 10 9	NP	3									
	898.0	Medium dense, brown, fine to medium SAND			4	7 7 9	NP	3									
	895.5	Medium dense, brown GRAVELLY SAND			5	8 10 11 13	NP	4									
	894.2	Hard, brown and gray SILTY CLAY with sand interbedded lenses			6	5 6 7 10	4.50 P	15									
	892.2	Medium dense to dense, brown gravelly SANDY LOAM with cobbles			7	13 16 14 15	NP	8									
	889.2	Very stiff, brown and gray SILTY CLAY			8	11 12 8 6	3.00 P	21									
	887.0	Medium dense, brown LOAM			9	7 13 11 9	2.75 P	10									
	886.0	Very stiff, brown CLAY LOAM															
		Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **12-15-2005** Complete Drilling **12-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&N** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-090

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 891.88 ft
 North: 1993925.37 ft
 East: 1005795.93 ft
 Station: 2282+02.06
 Offset: 0.17 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	891.6	Stiff, brown SILTY CLAY LOAM --TOPSOIL--			1	1 3 4 10	2.25	23									
	890.4	Very stiff, brown CLAY LOAM with sand interbedded lenses			2	7 10 8 8	NP	3									
		Medium dense to dense, brown GRAVELLY SAND	5		3	14 17 13 14	NP	3									
	885.4	Very stiff, brown SILTY CLAY LOAM with silt interbedded lenses			4	9 8 9 9											
	882.4	Medium dense to very dense, brown GRAVELLY SAND with silt interbedded lense	10		5	9 8 9 25	3.00	16									
					6	7 23 33 48	NP	6									
					7	6 14 12 16	NP	6									
			15		8	9 21 19 18	NP	2									
	875.9	Boring terminated at 16.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **12-15-2005** Complete Drilling **12-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&N** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-091

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 884.75 ft
 North: 1993994.23 ft
 East: 1006085.43 ft
 Station: 2285+00.60
 Offset: 0.03 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	884.3	Stiff, brown SILTY CLAY LOAM															
	883.8	--TOPSOIL--			1	1 4 6 11	2.75 P	30									
		Very stiff, brown CLAY LOAM															
	882.3	Medium dense, brown gravelly SANDY LOAM			2	8 13 14 16	NP	8									
	881.0	Medium dense, brown gravelly SILTY LOAM															
		Medium dense to dense, brown GRAVELLY SAND with cobbles	5		3	10 22 13 13	NP	4									
					4	9 9 9 10	NP	3									
					5	6 7 42 14	NP	3									
	875.3	Medium dense, brown gravelly LOAM	10		6	13 14 9 7	NP	9									
	873.3	Medium dense, brown GRAVELLY SAND with cobbles			7	10 10 18 50/5"	NP	4									
	870.8	Boring terminated at 14.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **12-15-2005** Complete Drilling **12-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&N** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-092

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 888.89 ft
 North: 1993979.10 ft
 East: 1006384.30 ft
 Station: 2287+99.44
 Offset: 20.73 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	888.6	Brown SILTY CLAY LOAM															
	887.9	--TOPSOIL--															
		Brown CLAY LOAM			1	9 31 16	4.50 P	7									
		Hard, brown gravelly SANDY CLAY															
	885.9	Medium dense to dense, brown GRAVELLY SAND			2	19 17 16	NP										
			5														
					3	8 10 9 8	NP	5									
	880.4	Very stiff, brown SILTY CLAY			4	15 18 16 12	2.50 P	19									
	879.4	Dense to very dense, brown GRAVELLY SAND with cobbles	10		5	14 22 21 22	NP	4									
					6	8 16 25 24	NP	3									
					7	16 34 25 20	NP	4									
			15		8	41 22 21 21	NP	2									
	870.9	Boring terminated at 18.00 ft															
			20														
			25														

GENERAL NOTES

Begin Drilling **12-15-2005** Complete Drilling **12-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&N** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-093

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 893.38 ft
 North: 1994004.87 ft
 East: 1006691.39 ft
 Station: 2291+06.69
 Offset: 2.77 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	892.9	Brown SILTY CLAY LOAM															
	892.6	--TOPSOIL--															
		Brown CLAY LOAM															
		Medium dense to dense, brown GRAVELLY SAND			1	4 10 14	NP	3									
					2	11 20 24	NP	4									
	886.6	Stiff to very stiff, brown SILTY CLAY to SILTY CLAY LOAM with silt interbedded lenses			3	10 11 7 7	1.50 P	20									
					4	5 7 6 8	1.25 P	21									
					5	4 7 10 13	3.00 P	20									
					6	4 8 8 5	1.75 P	21									
	879.1	Medium dense to dense, brown GRAVELLY SAND with cobbles			7	8 8 10 8	NP	4									
					8	26 18 15 19	NP	5									
					9	13 18 14 13	NP	4									
	873.4	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **12-14-2005** Complete Drilling **12-14-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-094

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 885.26 ft
 North: 1993996.55 ft
 East: 1006991.06 ft
 Station: 2294+06.32
 Offset: 7.83 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	884.8	Medium dense, brown SILTY LOAM --TOPSOIL-- Medium dense, brown SILT with silty clay interbedded lenses and trace organics	0		1	3 6 8 10	NP	37										
			5		2	5 6 6 5	NP	16										
	879.8	Very stiff, brown SILTY CLAY with silt interbedded lenses	5		3	5 11 13 9	NP	13										
					4	5 7 9 10	3.00 P	21										
					5	4 5 6 6	2.50 P	21										
	875.3	Boring terminated at 10.00 ft	10															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **12-14-2005** Complete Drilling **12-14-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-095

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 883.36 ft
 North: 1994008.22 ft
 East: 1007281.85 ft
 Station: 2296+97.18
 Offset: 1.68 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	882.9	Stiff, brown SILTY CLAY LOAM --TOPSOIL--			1	1 2 4 5	2.50 P	24									
	881.9	Very stiff, brown CLAY LOAM															
	881.1	Very stiff, brown SANDY CLAY															
		Medium dense, brown GRAVELLY SAND			2	4 6 10 13	2.75 P	16									
			5			15 9 10 8	NP	3									
					4	12 15 11 8	NP	2									
	875.9	Medium dense, brown, fine SAND with cobbles			5	16 14 13 11	NP	4									
	873.4	Boring terminated at 10.00 ft	10														
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **12-14-2005** Complete Drilling **12-14-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-096

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 889.99 ft
 North: 1994020.59 ft
 East: 1007588.27 ft
 Station: 2300+03.69
 Offset: 11.75 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	889.5	Stiff, brown SILTY CLAY LOAM --TOPSOIL--			1	1 2 6	4.50 P	23									
	888.5	Hard, brown SILTY CLAY			2	6 12											
	887.7	Hard, brown SANDY CLAY			3	6 18 14 9	4.50 P	15									
		Medium dense to very dense, brown and black GRAVELLY SAND with cobbles			4	7 11 14 12		6									
					5	5 9 13 14											
					6	14 18 13 14		4									
					7	12 17 14 16		2									
					8	50 36 23 27		2									
	876.0	Boring terminated at 14.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **12-14-2005** Complete Drilling **12-14-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-097

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 893.34 ft
 North: 1994029.11 ft
 East: 1007884.15 ft
 Station: 2303+00.53
 Offset: 0.91 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	893.13	13-inch thick, brown SILTY LOAM				4											
	892.8	--TOPSOIL--			1	6	4.50	11									
		Hard, brown CLAY LOAM				17	P										
		Medium dense to dense, brown GRAVELLY SAND			2	16	NP	2									
						10											
						13											
						10											
					3	5	NP	6									
						8											
						9											
						12											
					4	15	NP	6									
						11											
						14											
						13											
					5	16	NP	7									
						10											
						13											
						14											
					6	15	NP	6									
						16											
						10											
						13											
						14											
					7	19	NP	5									
	880.8	Medium dense to dense, brown, fine SAND				17											
						27											
						23											
					8	21	NP	6									
						13											
						13											
						15											
	877.3	Boring terminated at 16.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-20-2005** Complete Drilling **07-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&D** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-098

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 889.49 ft
 North: 1994103.70 ft
 East: 1008158.09 ft
 Station: 2305+99.91
 Offset: 0.07 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	889.15	15-inch thick, brown SANDY LOAM			1	3 5 5	3.50 P	10									
	888.0	--TOPSOIL--															
	887.0	Very stiff, brown CLAY LOAM															
		Medium dense, brown LOAM			2	13 11 13 14	NP	2									
		Medium dense to very dense, brown GRAVELLY SAND															
			5		3	19 19 19 17	NP	2									
					4	20 16 16 19	NP	3									
					5	24 27 23 25	NP	4									
			10		6	21 23 22 50	NP	4									
					7	25 19 19 17	NP	5									
	875.5	Boring terminated at 14.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-20-2005** Complete Drilling **07-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&D** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-099

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 919.90 ft
 North: 1992578.45 ft
 East: 980939.95 ft
 Station: 103+49.98
 Offset: 0.16 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	919.46	6-inch thick GRAVEL															
		--FILL--															
		Medium dense, brown SANDY LOAM			1	3 6 7 5	NP	8									
					2	8 8 11 11	NP	9									
			5		3	8 11 11 11	NP	9									
					4	5 10 12 14	NP	9									
					5	6 10 9 12	NP	9									
	909.9	Boring terminated at 10.00 ft	10														
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-01-2005** Complete Drilling **06-01-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-100

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 914.20 ft
 North: 1992878.47 ft
 East: 980939.57 ft
 Station: 106+50.04
 Offset: 0.09 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	913.76	6-inch thick, dark brown SILTY LOAM --TOPSOIL-- Medium dense, brown SANDY LOAM	0		1	4 7 40 50	NP	10									
					2	8 12 16 19	NP	5									
			5		3	6 9 15 6	NP	10									
	907.7	Medium dense, brown GRAVELLY SAND, with cobbles			4	5 17 9 8	NP	6									
					5	3 5 9 12	NP	5									
	904.2	Boring terminated at 10.00 ft	10														
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-02-2005** Complete Drilling **06-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-101

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 915.24 ft
 North: 1993178.84 ft
 East: 980950.12 ft
 Station: 109+50.13
 Offset: 20.90 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	914.76	6-inch thick, dark brown SILTY LOAM --TOPSOIL-- Loose to medium dense, brown SANDY LOAM			1	3 4 6 7	NP	12									
					2	3 5 3 4	NP	10									
			5		3	3 7 9 9	NP	7									
	909.7	Very dense, brown GRAVELLY SAND, with cobbles			4	6 58/3	NP	5									
					5	40 20 65	NP	5									
			10		6	22 35 33 34	NP	5									
					7	18 28 29 29	NP	2									
	901.2	Boring terminated at 14.00 ft	15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-02-2005** Complete Drilling **06-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-102

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 914.99 ft
 North: 1993476.84 ft
 East: 980897.14 ft
 Station: 112+49.03
 Offset: 37.68 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	914.0	12-inch thick, dark brown SILTY LOAM --TOPSOIL-- Loose, brown LOAM	0-3		1	2 3 3	NP	17									
			3-4		2	4 4 8	NP	11									
	910.5	Dense to very dense, brown GRAVELLY SAND, with cobbles	5-10		3	7 27 31 22	NP	4									
			10-12		4	14 19 12 14	NP	7									
			12-16		5	12 20 16 14	NP	4									
	904.5	Medium dense, brown SAND	16-18		6	7 11 10 12	NP	14									
	902.5	Medium dense, brown GRAVELLY SAND	18-21		7	13 10 13 11	NP	7									
	901.0	Boring terminated at 14.00 ft	21-25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-02-2005** Complete Drilling **06-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-103

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 910.86 ft
 North: 1993778.78 ft
 East: 980955.29 ft
 Station: 115+50.39
 Offset: 15.50 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	910.1	9-inch thick, black SILTY LOAM --TOPSOIL-- Very stiff, black and dark brown SILTY CLAY			1	1 2 4 4	NP	18									
					2	5 8 7 4	3.50 P	21									
	906.4	Very stiff, brown SILTY CLAY LOAM	5		3	6 10 10 7	2.50 P	23									
					4	3 5 8 5	2.00 P	11									
					5	4 10 8 7	2.00 P	10									
	898.9	Boring terminated at 12.00 ft			6	5 6 8 10	2.50 P	9									
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-02-2005** Complete Drilling **06-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-104

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 913.10 ft
 North: 1994078.47 ft
 East: 980950.93 ft
 Station: 118+50.09
 Offset: 13.54 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	912.3	9-inch thick, dark brown SILTY LOAM --TOPSOIL--			1	2 3 3 4	NP	18									
	910.1	Medium stiff, dark brown SILTY CLAY LOAM			2	5 4 4 5	0.75 P	27									
		Medium dense, brown SILTY LOAM	5		3	5 4 6 6	NP	16									
	906.1	Medium dense, brown SANDY LOAM			4	4 7 9 14	NP	19									
	904.3	Stiff, brown SILTY CLAY LOAM			5	6 10 10 11	1.75 P	11									
	903.1	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-03-2005** Complete Drilling **06-03-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-105

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 915.87 ft
 North: 1994378.13 ft
 East: 980953.89 ft
 Station: 121+49.75
 Offset: 14.90 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	914.9	12-inch thick, black SILTY LOAM --TOPSOIL--			1	2 2 3 3	NP	16									
		Very stiff, brown SILTY CLAY LOAM			2	3 3 6 5	2.00 P	18									
			5		3	3 6 6 7	3.00 P	19									
	908.9	Medium dense, brown SANDY LOAM			4	6 8 9 12	NP	16									
	907.4	Very stiff, gray SILTY CLAY LOAM			5	4 8 7 6	3.00 P	12									
	905.9	Boring terminated at 10.00 ft	10														
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-03-2005** Complete Drilling **06-03-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-106

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 890.02 ft
 North: 1992926.87 ft
 East: 991312.25 ft
 Station: 1199+99.95
 Offset: 0.05 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	889.56	6-inch thick, brown CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY LOAM			1	3 6 5 7	2.75 P	24									
					2	3 5 6 5	1.00 P	16									
			5		3	3 5 6 8	3.50 P	19									
	883.5	Medium dense, brown GRAVELLY SAND			4	6 10 10	NP	6									
	882.3	Dense, brown SANDY LOAM			5	13 20 10 10	NP	11									
	880.0	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-13-2005** Complete Drilling **04-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-107

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 883.38 ft
 North: 1993224.64 ft
 East: 991347.95 ft
 Station: 1203+00
 Offset: 0.04 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	882.9	6-inch thick, brown CLAY LOAM --TOPSOIL--			1	3 3 5 4	3.50 P	20									
		Very stiff to hard, brown SILTY CLAY LOAM			2	4 4 6 5	4.00 P	17									
	879.1	Loose, brown SILT	5		3	7 5 4 4	NP	18									
	877.6	Loose, brown SANDY LOAM			4	3 4 3 5	NP	12									
	874.6	Very stiff, brown CLAY LOAM			5	2 4 8 7	2.00 P	10									
	873.4	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-13-2005** Complete Drilling **04-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **8.80 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-108

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 880.44 ft
 North: 1993525.61 ft
 East: 991348.91 ft
 Station: 1205+99.97
 Offset: 0.07 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	879.9	6-inch thick, black and brown CLAY LOAM --TOPSOIL-- Stiff, brown SILTY CLAY			1	0 1 2 2	1.00 P	37									
	876.7	Loose, brown SILTY LOAM			2	1 3 3	1.50 P	17									
			5		3	3 4 4	NP	23									
	872.7	Medium stiff, gray CLAY LOAM			4	1 2 4 5	NP	16									
	870.4	Boring terminated at 10.00 ft	10		5	6 8 3 4	0.75 P	12									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-13-2005** Complete Drilling **04-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-109

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 883.27 ft
 North: 1993164.54 ft
 East: 991731.53 ft
 Station: 1105+26.10
 Offset: 0.84 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	882.7	7-inch thick, dark brown CLAY LOAM			1	1 3 4 3	1.50	18									
		--TOPSOIL--															
		Stiff to very stiff, brown SILTY CLAY LOAM			2	3 3 9 15	2.00	14									
	879.5	Medium dense, brown LOAM, gravelly			3	11 14 13 14	NP	10									
					4	6 7 6 7	NP	11									
					5	11 9 12 16	NP	10									
	873.3	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-13-2005** Complete Drilling **04-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-110

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 892.49 ft
 North: 1993173.02 ft
 East: 991932.76 ft
 Station: 1107+28.55
 Offset: 0.61 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	892.06	6-inch thick, black CLAY LOAM --TOPSOIL-- Medium stiff to stiff, brown SILTY CLAY LOAM			1	1 2 2 4	1.00 P	23									
					2	2 2 3 4	1.50 P	18									
			5		3	3 2 4 4	0.75 P	18									
	886.3	Medium stiff, brown SILTY CLAY			4	2 2 2 2	0.50 P	24									
					5	2 3 4 6	0.50 P	21									
	882.5	Boring terminated at 10.00 ft	10														
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-13-2005** Complete Drilling **04-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-111

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 898.30 ft
 North: 1993187.37 ft
 East: 992245.35 ft
 Station: 1110+41.46
 Offset: 0.04 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	898.03	3-inch thick, black CLAY LOAM --TOPSOIL--			1	1 3 4 6	2.50 P	21									
		Very stiff, brown SILTY CLAY LOAM			2	4 4 6 6	3.00 P	14									
	894.0	Medium dense, brown LOAM, gravelly	5		3	4 9 14 13	NP	9									
					4	5 8 9 7	NP	11									
					5	8 6 8 12	NP	11									
	888.3	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-13-2005** Complete Drilling **04-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-112

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 900.79 ft
 North: 1993202.55 ft
 East: 992544.65 ft
 Station: 1113+41.15
 Offset: 0.77 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	900.53	53-inch thick, dark brown LOAM --TOPSOIL--			1	4 3 3 3	NP	17									
	898.8	Loose, brown LOAM			2	3 2 4 5	2.00 P	17									
		Very stiff, brown CLAY LOAM			3	3 4 6 8	2.50 P	17									
	896.8	Very stiff, brown SILTY CLAY LOAM	5		4	5 6 9 12	2.00 P	13									
					5	3 7 8 8	3.50 P	15									
	890.8	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-13-2005** Complete Drilling **04-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-113

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 895.08 ft
 North: 1993231.75 ft
 East: 992844.24 ft
 Station: 1116+41.70
 Offset: 13.58 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	894.6	6-inch thick, black CLAY LOAM --TOPSOIL--			1	0 2 3 3	1.75 P	21									
		Stiff to hard, brown SILTY CLAY LOAM			2	3 3 6 5	2.75 P	16									
			5		3	2 4 6 7	2.50 P	14									
					4	4 6 9 10	> 4.50 P	12									
					5	3 6 7 9	> 4.50 P	13									
	885.1	Boring terminated at 10.00 ft	10														
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-13-2005** Complete Drilling **04-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-114

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 891.74 ft
 North: 1993217.03 ft
 East: 993151.21 ft
 Station: 1119+41.13
 Offset: 3.93 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING															
	890.7	Stiff to very stiff, brown SILTY CLAY LOAM			1	2 9 6 6	1.75 P	19									
					2	4 10 14 12	2.50 P	14									
			5		3	5 6 7 7	2.75 P	18									
					4	3 4 4 6	1.50 P	15									
	882.2	Dense, brown GRAVELLY SAND	10		5	2 17 24 24	NP	7									
	880.7	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-26-2005** Complete Drilling **05-26-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-115

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 794.50 ft
 North: 1992045.64 ft
 East: 993877.14 ft
 Station: 408+13.22
 Offset: 19.32 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		21-inch thick ASPHALT --PAVEMENT--															
	792.7	Medium stiff to stiff, black, brown, and gray CLAY LOAM --FILL--			1	3 2 4 7	1.25 P	22									
			5		2	3 3 4 7	0.75 P	26									
	788.2	Very soft to stiff, brown and gray SILTY CLAY LOAM			3	2 2 3 3	< 0.25 P	29									
			10		4	2 2 4 4	1.00 P	25									
	784.0	Loose to medium dense, gray GRAVELLY SAND			5	3 2 4 2	0.50 P	22									
	780.5	Boring terminated at 14.00 ft	15		6	0 5 15 15	NP	10									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-29-2005** Complete Drilling **06-29-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **11.50 ft**
 At Completion of Drilling \blacktriangledown
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-116

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 794.66 ft
 North: 1992246.62 ft
 East: 994042.17 ft
 Station: 410+85.10
 Offset: 23.45 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	793.0	5-inch thick ASPHALT over 15-inch thick CONCRETE --PAVEMENT--															
	791.4	Stiff, brown and black SILTY CLAY --FILL--			1	2 2 3 2	1.50 P	12									
		Loose to medium dense, brown GRAVELLY SAND, with cobbles	5		2	3 5 4 4	NP	4									
					3	5 4 5 8	NP	4									
					4	10 7 5 10	NP	5									
					5	6 6 9 8	NP	10									
	782.7	Boring terminated at 12.00 ft															
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-30-2005** Complete Drilling **06-30-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **7.25 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-117

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 799.35 ft
 North: 1992517.35 ft
 East: 994226.38 ft
 Station: 413+98.75
 Offset: 17.68 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	797.4	11-inch thick ASPHALT over 13-inch thick CONCRTE --PAVEMENT--															
	794.9	Medium stiff to stiff, brown SILTY CLAY LOAM --FILL--			1	4 3 5 7	1.75 P	21									
	791.6	Loose to medium dense, brown GRVELLY SAND	5		2	3 3 5 9	0.75 P	19									
		Loose, brown, medium SAND			3	5 7 6 7	NP	3									
					4	4 2 5 4	NP	26									
			10		5	1 3 2 4	NP	29									
					6	1 2 4 5	NP	18									
			15		7	4 5 3 9	NP	19									
	783.9	Very dense, brown GRAVELLY SAND			8	5 3 9	NP	8									
	782.4	Very stiff, gray CLAY LOAM															
	781.4	Qp = 2.25 tsf															
		Boring terminated at 18.00 ft															
			20														
			25														

GENERAL NOTES

Begin Drilling **06-29-2005** Complete Drilling **06-29-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **8.50 ft**
 At Completion of Drilling \blacktriangledown
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-118

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 802.20 ft
 North: 1992811.07 ft
 East: 994305.99 ft
 Station: 416+98.92
 Offset: 18.05 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	800.7	8-inch thick ASPHALT over 10-inch thick CONCRETE --PAVEMENT--															
	799.4	Medium dense, brown SANDY LOAM			1	8 4 8	NP	10									
	798.4	--FILL-- Loose, black and brown SILTY LOAM			2	3 3 4 4	NP	22									
	795.4	Stiff, brown SILTY CLAY LOAM			3	3 5 5 5	1.25	26									
	793.7	Medium dense, brown SANDY LOAM			4	2 3 8 14	NP	10									
	791.2	Medium dense, brown GRAVELLY SAND			5	4 9 12 9	NP	6									
		Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-29-2005** Complete Drilling **06-29-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-119

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 805.45 ft
 North: 1993127.27 ft
 East: 994373.20 ft
 Station: 420+23.22
 Offset: 17.47 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	804.1	16-inch thick ASPHALT --PAVEMENT--															
	803.5	Medium stiff, brown SILTY CLAY LOAM			1	2 2 3	0.75 P	19									
	802.7	--FILL--															
		Loose, brown SANDY LOAM															
		Medium stiff, black and brown CLAY LOAM, with interbedded sand lenses	5		2	3 1 2 2	0.50 P	21									
	800.0	Dense, brown GRAVELLY SAND			3	5 14 25 21	NP	5									
					4	8 13 16 21	NP	4									
			10		5	13 8 11 13	NP	3									
	794.5	Boring terminated at 11.00 ft															

GENERAL NOTES

Begin Drilling **06-29-2005** Complete Drilling **06-29-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **8.00 ft**
 At Completion of Drilling \blacktriangledown
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-120

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 806.59 ft
 North: 1993360.94 ft
 East: 994429.62 ft
 Station: 422+64.97
 Offset: 17.33 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	804.8	10-inch thick ASPHALT over 11-inch thick CONCRETE --PAVEMENT--															
		Medium dense to dense, brown GRAVELLY SAND			1	5 6 9 9 11	NP	8									
			5		2	6 11 20 19	NP	4									
					3	9 8 18 20	NP	5									
					4	8 8 10 8	NP	4									
			10		5	9 9 9 8	NP	3									
	794.6	Boring terminated at 12.00 ft															
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-30-2005** Complete Drilling **06-30-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-121

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 808.67 ft
 North: 1993695.87 ft
 East: 994489.46 ft
 Station: 426+02.27
 Offset: 39.05 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	807.0	8-inch thick ASPHALT over 12-inch thick CONCRETE --PAVEMENT--															
	806.2	Very loose, black and brown SILTY LOAM			1	0 0 1 2	1.00 P	27									
	804.4	Stiff, brown SILTY CLAY LOAM															
	803.2	Loose, brown SANDY LOAM	5		2	2 3 6 9	NP	24									
		Medium dense to very dense, brown GRAVELLY SAND			3	6 8 11 20	NP	4									
					4	16 17 22 32	NP	5									
			10		5	9 31 37 50	NP	5									
	796.7	Boring terminated at 12.00 ft															
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-30-2005** Complete Drilling **06-30-2008**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-122

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 810.04 ft
 North: 1993993.20 ft
 East: 994477.05 ft
 Station: 428+98.88
 Offset: 21.74 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	809.3	9-inch thick, black and brown SILTY LOAM --TOPSOIL--			1	4 6 5 8	4.00 P	11									
		Stiff to hard, brown SILTY CLAY LOAM			2	6 4 5 9	1.50 P	20									
	806.3	Medium dense, brown GRAVELLY SAND			3	7 9 11 12	NP	5									
					4	3 6 9 10	NP	12									
					5	6 8 9 9	NP	13									
	800.0	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-29-2005** Complete Drilling **06-29-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-123

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 811.56 ft
 North: 1994288.70 ft
 East: 994560.87 ft
 Station: 432+00.94
 Offset: 17.19 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	809.8	8-inch thick ASPHALT over 13-inch thick CONCRETE --PAVEMENT--															
	808.1	Medium stiff, brown and black SILTY CLAY LOAM --FILL--			1	2 1 3 5	0.50 P	23									
		Medium stiff to stiff, brown and gray SILTY CLAY	5		2	2 2 3 6	1.00 P	31									
					3	1 2 3 4	0.50 P	26									
					4	1 2 2 4	0.50 P	28									
	800.8	Medium dense, brown GRAVELLY SAND			5	1 1 2 4	0.50 P	26									
					6	2 4 5 7	NP	14									
					7	2 5 10 13	NP	12									
	795.6	Boring terminated at 16.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-30-2005** Complete Drilling **06-30-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **12.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-124

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 725.29 ft
 North: 1993357.48 ft
 East: 999075.24 ft
 Station: 500+00
 Offset: 12.2 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	725.03	0.3-inch thick, black SILTY LOAM --TOPSOIL--				6											
	724.0	Medium dense, brown, GRAVELLY SAND			1	8	NP	4									
	722.8	--FILL-- Stiff, black SILTY CLAY			2	2	1.00	26									
		--FILL--				2	P										
		Loose, brown and gray SANDY LOAM	5		3	4	NP	25									
						4											
						1	NP	32									
						1											
						5	NP	8									
	716.8	Medium dense, brown GRAVELLY SAND			5	9											
	715.3	Boring terminated at 10.00 ft	10			18											
						21											

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-08-2005** Complete Drilling **07-08-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **2.90 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-125

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 728.74 ft
 North: 1993440.27 ft
 East: 999355.52 ft
 Station: 502+99.79
 Offset: 0.50 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	728.2	6-inch thick, black SILTY LOAM --TOPSOIL--			1	3 2 3	3.00	18									
		Very stiff, black and brown SILTY CLAY															
	726.0	--FILL--			2	2 3 5 6	0.75	20									
		Soft to medium stiff, gray SILTY CLAY LOAM															
			5		3	1 2 4 4	0.50	26									
	722.2				4	2 1 3 14	0.25	35									
	721.7	Very loose, gray LOAM															
		Dense, brown GRAVELLY SAND, with cobbles			5	6 14 23 20	NP	7									
	718.7	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-08-2005** Complete Drilling **07-08-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **6.60 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-126

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 735.53 ft
 North: 1993340.35 ft
 East: 999459.40 ft
 Station: 2218+64.88
 Offset: 30.31 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	736.33	3-inch thick, brown LOAM				8											
	734.8	--TOPSOIL--			1	6	2.00	18									
		Medium dense, brown GRAVELLY SAND				6	P										
		--FILL--				8											
	732.8				2	5	0.50	20									
	732.0	Very stiff, black, and brown SILTY CLAY LOAM				4	P										
		--FILL--				3											
		Medium stiff, brown CLAY			3	4	NP	3									
		Medium dense to very dense, brown GRAVELLY SAND, with cobbles			4	10											
					4	17	NP	4									
					5	23											
					5	42											
						11	NP	2									
						40											
						53											
						44											
	725.5	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-08-2005** Complete Drilling **07-08-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-127

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 738.37 ft
 North: 1993846.65 ft
 East: 999485.86 ft
 Station: 908+93.89
 Offset: 0.01 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	737.9	6-inch thick ASPHALT --PAVEMENT--															
	737.4	6-inch thick CRUSHED STONE AGGREGATE --BASE COURSE--			1	6 10 10 9	NP	6									
	734.9	Medium dense, dark gray, GRAVELLY SAND --FILL--			2	9 9 7 8	2.25 P	13									
		Medium stiff to very stiff, brown and gray CLAY LOAM, with interbedded sand lenses	5		3	5 4 13 7	0.75 P	16									
	731.9	Very dense, brown GRAVELLY SAND			4	29 30 40 38	NP	3									
					5	46 40 34 21	NP	5									
	727.4	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-08-2005** Complete Drilling **07-08-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-128

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 745.74 ft
 North: 1993417.80 ft
 East: 999658.21 ft
 Station: 506+00.89
 Offset: 28.12 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	745.44	4-inch thick CRUSHED STONE AGGREGATE --SHOULDER AGGREGATE--	1	X	1	5 3 3	0.50 P	18									
		Very soft to medium stiff, brown SILTY CLAY LOAM, with interbedded sand lenses --FILL--				2											
	741.5	Very loose, brown and black SILTY LOAM	5	X	3	1 1 2	NP	27									
	740.2	Medium dense, brown GRAVELLY SAND		X	4	3 9 14 13	NP	10									
	737.2	Very stiff, gray SILTY CLAY LOAM	10	X	5	9 11 8 7	2.25 P	13									
	735.7	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-08-2005** Complete Drilling **07-08-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-129

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 766.43 ft
 North: 1993414.83 ft
 East: 999955.86 ft
 Station: 508+98.62
 Offset: 12.62 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	765.2	Medium dense, brown SANDY LOAM	0		1	6 6 5 4	NP	10									
		--FILL--															
		Medium stiff to stiff, black and brown SILTY CLAY LOAM			2	3 2 2 3	0.50 P	74									
		--FILL--															
	760.9	Very stiff, brown SILTY CLAY LOAM	5		3	3 3 4 6	1.50 P	22									
					4	4 4 5 5	2.00 P	13									
					5	3 4 7 9	3.50 P	13									
	756.4	Boring terminated at 10.00 ft	10														
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-08-2005** Complete Drilling **07-08-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-130

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 810.03 ft
 North: 1993477.43 ft
 East: 1000242.70 ft
 Station: 511+85.31
 Offset: 36.24L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	809.3	9-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL--			1	50/5"	NP	2						11	6 10 16	4.10 B	11	
	806.8	Very dense, gray GRAVELLY SAND, with cobbles												12	8 10 13 16	5.08 B	10	
		Stiff to hard, brown to gray SILTY CLAY LOAM			2	5 6 8	3.12 B	12						13	6 9 12 17	5.66 B	11	
					3	3 5 8	2.62 B	11						14	7 15 17 21	6.15 B	11	
					4	3 5 8	2.46 B	10						15	6 11 12 15	6.23 B	10	
					5	4 6 8	4.92 B	11						16	9 17 15 14	3.69 B	11	
					6	5 5 9	1.48 B	11						17	8 10 11 15	2.62 B	12	
					7	8 10 11 14	3.44 B	11						18	4 10 15 19	5.66 B	11	
					8	5 8 11 14	3.69 B	11		770.0								
					9	4 10 39 26	2.54 B	11			Boring terminated at 40.00 ft							
					10	5 8 10 13	3.44 B	10										
						4												

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-05-2005** Complete Drilling **08-05-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **20.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-131

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 821.89 ft
 North: 1993441.94 ft
 East: 1000557.57 ft
 Station: 515+00.30
 Offset: 0.13 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	821.81	1-inch thick ASPHALT															
	820.9	--PAVEMENT--															
		Brown LOAM, gravelly			1	5 7 9 9	2.25 P	10									
		--FILL--															
		Very stiff, brown CLAY LOAM, gravelly			2	9 8 7 6	2.00 P	14									
		--FILL--															
	816.4	Medium dense, brown LOAM			3	8 7 7 9	NP	8									
		--FILL--															
					4	13 10 10 10	NP	6									
					5	7 13 13 13	NP	12									
					6	10 10 13 13	NP	14									
	809.1	Medium dense to dense, brown GRAVELLY SAND			7	13 11 18 18	NP	2									
					8	9 17 18 19	NP	7									
	805.4	Very stiff, gray SILTY CLAY LOAM			9	10 10 13 14	3.00 P	10									
	802.9	Boring terminated at 19.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-13-2005** Complete Drilling **07-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-132

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 830.86 ft
 North: 1993414.64 ft
 East: 1000852.73 ft
 Station: 517+99.71
 Offset: 23.56 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	829.9	12-inch thck, brown SANDY CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY LOAM	0-5		1	5 3 4 4	1.00 P	23									
			5-10		2	4 3 5 6	1.50 P	25									
	825.4	Medium dense to dense, brown and gray GRAVELLY SAND	10-15		3	3 5 6 14	2.00 P	21									
			15-20		4	12 14 16 15	NP	5									
			20-25		5	11 18 12 20	NP	4									
			25-30		6	15 18 21 24	NP	5									
			30-35		7	22 24 20 17	NP	5									
			35-40		8	12 14 14 20	NP	6									
	812.9	Boring terminated at 18.00 ft	40-45		9	12 13 11 14	NP	3									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-14-2005** Complete Drilling **07-14-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **K. Anderson** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-133

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 822.44 ft
 North: 1993306.67 ft
 East: 1001123.16 ft
 Station: 520+87.37
 Offset: 50.49 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	821.5	11-inch thick, dark brown SILTY LOAM			1	3 3 4 6	NP	16									
		--TOPSOIL--															
	820.6	Loose, brown SILTY LOAM			2	8 5 8 7	3.00 P	25									
		Stiff to very stiff, brown SILTY CLAY LOAM															
			5		3	5 4 7 8	2.00 P	21									
	815.4	Loose to medium dense, brown SILTY LOAM			4	5 4 5 6	1.00 P	23									
					5	4 7 13 15	NP	19									
	812.4	Boring terminated at 10.00 ft	10														
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-13-2005** Complete Drilling **07-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-134

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 821.23 ft
 North: 1993253.68 ft
 East: 1001403.64 ft
 Station: 701+07.17
 Offset: 21.44 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	820.2	Loose, brown SILTY LOAM --TOPSOIL--			1	3 3 4 6	NP	17									
		Very soft to very stiff, brown, and gray SILTY CLAY LOAM			2	6 4 6 5	2.00 P	21									
			5		3	4 4 4 6	0.75 P	27									
					4	3 4 4 7	< 0.25 P	26									
					5	2 2 4 3	0.50 P	24									
			10		6	4 3 4 5	0.50 P	27									
					7	2 3 5 4	0.50 P	23									
	806.7	Medium dense, brown, and gray SANDY LOAM, gravelly	15		8	3 5 7 10	NP	15									
	805.2	Boring terminated at 16.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-13-2005** Complete Drilling **07-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-135

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 825.05 ft
 North: 1993740.53 ft
 East: 1001420.73 ft
 Station: 705+86.97
 Offset: 0.11 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	824.6	6-inch thick, loose, brown GRAVELLY SAND			1	2 3 5 4	3.50 P	17									
		--FILL--															
		Stiff to very stiff, brown, black, and gray CLAY LOAM, with asphalt pieces			2	4 4 4	1.25 P	14									
	821.6	--FILL--															
		Soft, black and gray SANDY CLAY			3	4 3 2	0.25 P	16									
	820.3	--FILL--															
	819.6	--FILL--															
		Loose, gray SANDY LOAM			4	1 2 1 5	< 0.25 P	13									
		--FILL--															
		Very soft to very stiff, black, brown, and gray CLAY LOAM			5	1 3 3 3	0.50 P	25									
		--FILL--															
			10		6	2 2 5 5	2.50 P	19									
	813.1	Boring terminated at 12.00 ft															
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-13-2005** Complete Drilling **07-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling **5.00 ft**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-136

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 826.84 ft
 North: 1993295.01 ft
 East: 1001711.62 ft
 Station: 528+50.08
 Offset: 57.23 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	826.3	6-inch thick, dark brown SILTY LOAM			1	2 2 3	1.75	20									
	825.1	--TOPSOIL--					P										
		Stiff, brown SILTY CLAY LOAM			2	5 8 11 12	NP	10									
		Medium dense to very dense, brown GRAVELLY SAND			3	15 21 16 18	NP	4									
					4	21 29 39	NP	3									
	818.6				5	50/3"	NP	4									
		Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-13-2005** Complete Drilling **07-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-137

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 844.73 ft
 North: 1993428.13 ft
 East: 1001991.96 ft
 Station: 531+33.14
 Offset: 8.53R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	843.7	Loose, black to brown SANDY LOAM --TOPSOIL--	0		1	3 3 4 4	NP	10									
		Very soft, black to brown CLAY LOAM --FILL--	1		2	3 0 1 1	< 0.25 P	14									
	839.2		5		3	1 8 6 4	< 0.25 P	15									
		Medium dense to dense, brown SAND	6		4	2 5 9 14	NP	7									
			8		5	19 20 26 18	NP	11									
	834.7	Boring terminated at 10.00 ft	10														
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-22-2005** Complete Drilling **07-22-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 TMR**
 Driller **L&D** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-138

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 883.14 ft
 North: 1992403.50 ft
 East: 1004779.80 ft
 Station: 600+98.61
 Offset: 35.49 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
4-4	882.84	4-4 1/2-inch thick CRUSHED STONE AGGREGATE --SHOULDER AGGREGATE-- Stiff, brown and black SILTY CLAY LOAM	0		1	5 5 4 4	1.25 P	20									
		--FILL-- Stiff, brown SILTY CLAY LOAM	5		2	4 2 3 3	1.25 P	23									
			5		3	3 4 3 4	1.50 P	26									
			5		4	5 3 5 8	1.25 P	26									
			5		5	8 6 10 9	NP	11									
	879.6																
	876.1	Medium dense, brown SAND															
	873.1	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-15-2005** Complete Drilling **07-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-139

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 894.81 ft
 North: 1992707.33 ft
 East: 1004708.25 ft
 Station: 603+99.06
 Offset: 45.52 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	894.54	4'-4" 1/2-inch thick CRUSHED STONE AGGREGATE --SHOULDER AGGREGATE--			1	9 5 4 3	2.00 P	18									
	892.6	Very stiff, black, brown and gray SILTY CLAY LOAM --FILL--			2	3 3 3 7	NP	12									
		Medium dense to very dense, brown GRAVELLY SAND	5		3	6 9 9 10	NP	7									
					4	14 28 50/4"	NP	2									
					5	50/3"	NP	4									
			10		6	29 17 14 13	NP	5									
	882.8	Boring terminated at 12.00 ft															
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-15-2005** Complete Drilling **07-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-140

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 899.76 ft
 North: 1992996.00 ft
 East: 1004781.10 ft
 Station: 606+91.67
 Offset: 44.96 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	899.35	3.5-inch thick, black SILTY LOAM															
	898.8	--TOPSOIL			1	11 9 7 8	4.50 P	13									
	897.8	Hard, brown SILTY CLAY LOAM															
		--FILL--			2	17 37 31 29	NP	2									
		Medium dense, brown SILTY LOAM															
		--FILL--															
		Very dense, brown GRAVELLY SAND	5		3	28 26 23 19	NP	5									
	894.3	Medium stiff to stiff, brown SILTY CLAY LOAM			4	10 5 8 5	0.75 P	19									
					5	12 7 6 8	1.75	20									
	889.8	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-15-2005** Complete Drilling **07-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-141

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 896.30 ft
 North: 1993298.80 ft
 East: 1004687.44 ft
 Station: 609+93.67
 Offset: 51.92 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	895.5	10-inch thick CONCRETE --PAVEMENT--															
	894.8	CRUSHED STONE AGGREGATE --BASE COURSE--			1	13 6 4 5	NP	7									
		Very stiff, brown SILTY CLAY LOAM			2	9 4 5 5	3.25 P	16									
			5		3	4 5 5 4	2.75 P	15									
					4	5 5 8 8	2.00 P	15									
	886.3	Dense, brown GRAVELLY SAND	10		5	5 15 20 11	NP	5									
	885.3	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-14-2005** Complete Drilling **07-14-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **K. Anderson** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-142

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 883.09 ft
 North: 1993913.02 ft
 East: 1004723.31 ft
 Station: 615+96.89
 Offset: 45.50 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	882.2	11-inch thick CONCRETE --PAVEMENT--															
	881.1	CRUSHED STONE AGGREGATE			1	47 32 9 6	1.00 P	13									
	880.3	--BASE COURSE-- Stiff, brown SANDY CLAY			2	12 9 11 16	NP	4									
		--FILL-- Medium dense, brown GRAVELLY SAND	5		3	12 16 12 8	NP	2									
	876.6	Medium stiff to stiff, brown SILTY CLAY LOAM			4	5 4 5 6	0.50 P	10									
			10		5	2 3 4 4	1.00 P	13									
	872.1	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-14-2005** Complete Drilling **07-14-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-143

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 873.68 ft
 North: 1994206.49 ft
 East: 1004788.74 ft
 Station: 619+03.55
 Offset: 48.64 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	872.5	10-inch thick CONCRETE over 4-inch thick ASPHALT --PAVEMENT--															
	871.7	CRUSHED STONE AGGREGATE --BASE COURSE--			1	15 18 9 9	NP	4									
	869.2	Very stiff, black, brown and gray SILTY CLAY LOAM --FILL--			2	14 8 7 9	3.00 P	13									
	867.7	Medium dense, black and brown gravelly SANDY LOAM --FILL--			3	11 16 9 5	NP	6									
	865.7	Very stiff, black and brown SILTY CLAY --FILL--			4	5 4 3 4	1.25 P	26									
		Stiff TO VERY STIFF, brown SILTY CLAY LOAM			5	4 3 2 5	1.00 P	24									
			10		6	4 4 5 7	2.00 P	24									
	860.7	Boring terminated at 13.00 ft															
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-15-2005** Complete Drilling **07-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-144

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 866.81 ft
 North: 1994507.02 ft
 East: 1004722.17 ft
 Station: 622+02.09
 Offset: 43.46 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	865.8	12-inch thick, brown SILTY LOAM			1	6 15 12 15	NP	5									
	865.1	--TOPSOIL--															
		Medium dense, brown LOAM, gravelly			2	17 11 21 29	NP	4									
		Dense, brown GRAVELLY SAND			3	20 21 15 15	NP	3									
					4	29 25 19 22	NP	3									
					5	30 16 16 15	NP	3									
	856.8	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-14-2005** Complete Drilling **07-14-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-145

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 888.71 ft
 North: 1992837.53 ft
 East: 1009165.08 ft
 Station: 801+21.72
 Offset: 19.96 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	887.7	12-inch thick, brown SILTY LOAM			1	2 3 3 2	1.50	16									
		--TOPSOIL--															
		Medium stiff to stiff, brown SILTY CLAY LOAM			2	2 3 4 4	1.50	20									
			5		3	4 3 2 3	1.50	21									
					4	5 5 7 7	1.50	12									
					5	6 4 4 7	0.50	15									
	878.2	Stiff, brown CLAY LOAM	10		6	9 10 10 10	1.00	11									
	876.7	Boring terminated at 12.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-19-2005** Complete Drilling **07-19-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&D** Logger **K. Anderson** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-146

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 889.72 ft
 North: 1992995.36 ft
 East: 1008931.02 ft
 Station: 804+00.78
 Offset: 22.63 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	889.26	6-inch thick, dark brown SANDY LOAM --TOPSOIL--	0		1	4 15 10 8	NP	2									
		Medium dense, brown and gray LOAM, with gravel	7		2	7 7 8 12	NP	7									
			5		3	7 10 12 8	NP	9									
	883.2	Medium dense, brown GRAVELLY SAND	8		4	8 16 12 12	NP	5									
			10		5	6 9 6 8	NP	6									
	879.7	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-19-2005** Complete Drilling **07-19-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&D** Logger **K. Anderson** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-147

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 888.73 ft
 North: 1993241.86 ft
 East: 1008770.01 ft
 Station: 806+87.85
 Offset: 24.38 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	888.2	Very stiff, brown CLAY LOAM --FILL--	0		1	14 7 6 8	2.50 P	9									
	885.7	Medium dense, brown SANDY LOAM, gravelly	1		2	5 8 8 12	NP	6									
		Medium dense, brown GRAVELLY SAND	2		3	15 9 10 10	NP	3									
			3		4	12 7 10 10	NP	6									
					5	16 11 10 7	NP	6									
	878.7	Boring terminated at 10.00 ft	10														

GENERAL NOTES

Begin Drilling **07-19-2005** Complete Drilling **07-19-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&D** Logger **K. Anderson** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-148

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 889.71 ft
 North: 1993478.08 ft
 East: 1008562.03 ft
 Station: 810+05.15
 Offset: 17.22 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	888.2	Medium dense, brown SANDY LOAM --FILL--			1	12 7 3 2	NP	2									
		Very soft to stiff, brown and gray CLAY LOAM --FILL--			2	3 3 3 3	0.75 P	16									
			5		3	2 2 3 2	1.00 P	17									
					4	1 0 1 1	< 0.25 P	14									
	881.2	Stiff, brown SILTY CLAY			5	1 1 3 3	1.00 P	22									
	879.7	Boring terminated at 10.00 ft	10														
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-19-2005** Complete Drilling **07-19-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&D** Logger **K. Anderson** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-149

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 888.23 ft
 North: 1993752.84 ft
 East: 1008453.80 ft
 Station: 812+98.55
 Offset: 17.86 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	887.76	6-inch thick CRUSHED STONE AGGREGATE				3											
	886.7	--SHOULDER AGGREGATE--			1	1	0.75	13									
		Medium stiff, brown CLAY LOAM				2	P										
		--FILL--				4											
	885.2	Loose, gray SANDY LOAM			2	3	NP	2									
		Very soft to stiff, brown SILTY CLAY LOAM				3											
			5		3	1	< 0.25	21									
						1	P										
						9											
					4	5	1.00	23									
						2	P										
						3											
					5	3	1.75	24									
						3	P										
	878.2	Boring terminated at 10.00 ft	10			3											

GENERAL NOTES

Begin Drilling **07-19-2005** Complete Drilling **07-19-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&D** Logger **K. Anderson** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-150

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 888.21 ft
 North: 1994053.86 ft
 East: 1008333.47 ft
 Station: 816+24.87
 Offset: 17.47 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)		
	888.03	3-inch thick CRUSHED STONE AGGREGATE --SHOULDER AGGREGATE-- Soft to stiff, brown SILTY CLAY LOAM	0		1	3 4 3 4	1.00 P	3											
				1		2	1 1 3 1	1.00 P	15										
				5		3	3 3 3 0	0.25 P	30										
						4	3 1 2 3	1.25 P	22										
						5	2 3 4 5	1.75 P	27										
	878.2	Boring terminated at 10.00 ft	10																

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-19-2005** Complete Drilling **07-19-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&D** Logger **K. Anderson** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-151

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 887.66 ft
 North: 1994307.16 ft
 East: 1008207.54 ft
 Station: 819+05.29
 Offset: 19.70 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	886.2	Very stiff, brown and gray SANDY CLAY LOAM --FILL--	8		1	8	2.75	10									
			9			9	P										
			8			8											
			10			10											
	884.2	Loose, brown SANDY LOAM	2		2	2	NP	10									
			3		3	3											
			5		5	5											
		Medium dense to very dense, brown GRAVELLY SAND	8		3	8	NP	5									
			10			10											
			11			11											
			8			8											
			2		4	2	NP	5									
			32			32											
			20			20											
			16			16											
			14		5	14	NP	4									
			18			18											
			16			16											
			17			17											
	877.7	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-19-2005** Complete Drilling **07-19-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&D** Logger **K. Anderson** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-152

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 886.97 ft
 North: 1994596.04 ft
 East: 1008127.88 ft
 Station: 822+01.25
 Offset: 20.79 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	886.91	1.5-inch thick CRUSHED STONE AGGREGATE			1	10 6 3 5	NP	4									
	885.5	--SHOULDER AGGREGATE--															
		Loose, brown GRAVELLY SAND			2	17 8 9 7	NP	7									
		Medium dense, brown LOAM			3	6 8 12 13	NP	7									
	880.5	Medium dense to dense, brown GRAVELLY SAND			4	4 14 10 10	NP	2									
					5	8 8 9 17	NP	6									
					6	13 21 12 12	NP	11									
	875.0	Boring terminated at 12.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-20-2005** Complete Drilling **07-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&D** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG R-153

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 879.67 ft
 North: 1994830.88 ft
 East: 1007945.66 ft
 Station: 825+04.78
 Offset: 33.84 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	878.76	6-inch thick ASPHALT over 6-inch thick CONCRETE --PAVEMENT-- Medium stiff to very stiff, brown SILTY CLAY LOAM			1	2 1 1 4	0.50 P	14									
			5		2	3 5 11 10	3.00 P	13									
					3	10 20 7 8	1.50 P	15									
					4	3 17 13 48	3.25 P	15									
			10		5	3 12 16 50/3"	2.50 P	13									
	868.7	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-19-2005** Complete Drilling **07-19-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&D** Logger **K. Anderson** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG R-154

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 862.20 ft
 North: 1995075.09 ft
 East: 1007760.71 ft
 Station: 828+00.97
 Offset: 0.47 R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	861.0	11-inch thick ASPHALT over															
	860.7	5-inch thick CONCRETE															
		--PAVEMENT--															
		Medium stiff, brown SANDY CLAY			1	3 13 11	0.50 P	17									
		--FILL--															
		Medium dense, brown GRAVELLY SAND			2	8 7 9 7	NP	3									
			5		3	8 6 6 6	NP	2									
					4	10 10 11 9	NP	2									
					5	11 9 11 8	NP	2									
	851.2	Boring terminated at 11.00 ft															
			15														
			20														
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-20-2005** Complete Drilling **07-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&D** Logger **J. Kasnick** Checked by **B.F./J.K.**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-001

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 897.80 ft
 North: 1993266.79 ft
 East: 992299.53 ft
 Station: 2145+16.52
 Offset: 74.73R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	897.0	10-inch thick, brown SANDY CLAY LOAM --TOPSOIL--			1	2 2 6	1.50 P	19						11	7 11 13	NP	4
		Stiff to very stiff, brown SILTY CLAY LOAM	5		2	3 4 8	1.15 B	11				30		12	10 12 12	NP	8
					3	3 7 11	2.25 P	12		865.8	Medium stiff to stiff, gray CLAY LOAM			13	32 13 9	NP	9
	889.8	Dense, brown LOAM	10		4	5 15 15	NP	6				35		14	5 4 3	0.98 B	10
	886.1	Medium dense, brown, fine to medium SAND			5	13 14 15								15	3 3 5	0.82 B	10
			15		6	6 11 10	NP	3				40		15	3 3 5	0.82 B	10
					7	7 11 14	NP	14						16	3 5 6	1.80 B	11
			20		8	6 9 12	NP	2				45		16	3 5 6	1.80 B	11
					9	9 13 16	NP	2						17	4 5 6	1.48 B	14
	874.8	Medium dense, brown, gravelly SANDY LOAM	25		10	13 13 13	NP	2				50		17	4 5 6	1.48 B	14

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-23-2005** Complete Drilling **05-23-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **28.50 ft**
 At Completion of Drilling ∇ **19.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-001

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 897.80 ft
 North: 1993266.79 ft
 East: 992299.53 ft
 Station: 2145+16.52
 Offset: 74.73R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	837.8		55		18	4 6 9	0.82 B	13									
			60		19	4 6 10	1.72 B	13									
		Boring terminated at 60.00 ft															
			65														
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-23-2005** Complete Drilling **05-23-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **28.50 ft**
 At Completion of Drilling \blacktriangledown **19.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-002

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 897.05 ft
 North: 1993416.51 ft
 East: 992300.01 ft
 Station: 2145+21.86
 Offset: 74.88L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	896.65	896.65-inch thick TOPSOIL															
		Stiff to very stiff, brown SILTY CLAY LOAM			1	3 5 6	2.00 B	13						11	9 16 13	NP	6
			5		2	4 5 9	2.05 B	12				30		12	6 6 5	NP	9
	891.6	Medium dense to dense, brown, fine SAND to SANDY LOAM			3	8 16 18	NP	6						13	8 10 17	NP	14
			10		4	7 12 10	NP	9		863.1	Medium stiff to stiff, gray CLAY LOAM	35		14	5 6 6	0.82 B	11
					5	3 5 6	NP	11									
			15		6	5 9 13	NP	7				40		15	5 6 8	1.64 B	11
					7	19 4 16	NP	12									
			20		8	8 15 23	NP	15				45		16	5 6 8	1.85 B	7
	875.6	Medium dense, brown GRAVELLY SANDY LOAM			9	22 13 15	NP	4									
			25		10	8 9 14	NP	4				50		17	5 16 20		

GENERAL NOTES

Begin Drilling **05-09-2005** Complete Drilling **05-09-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **25.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-002

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 897.05 ft
 North: 1993416.51 ft
 East: 992300.01 ft
 Station: 2145+21.86
 Offset: 74.88L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	845.6	Boring terminated at 51.50 ft	55		18	5 6 10	1.64 B	12									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-09-2005** Complete Drilling **05-09-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **25.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-003

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 900.90 ft
 North: 1993271.17 ft
 East: 992379.57 ft
 Station: 2145+96.66
 Offset: 72.95R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	900.73	3-inch thick, dark brown CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY LOAM			1	2 3 4	1.75 P	18						11	12 21 50/5"			3
			5		2	1 5 5	1.25 P	14				30		12	23 28 38			4
					3	2 6 7	2.87 B	15						13	12 19 16			13
			10		4	6 6 9	1.56 B	14				35		14	10 5 10			15
	890.4	Medium dense, brown, fine SAND			5	12 12 16	NP	4						15	3 9 13			10
	887.9	Medium dense to very dense, brown LOAM			6	13 16 13	NP	9						16	1 6 11	1.50 P		19
					7	9 28 27	NP	7						17	31 50/5"			8
	882.7	Medium dense, brown, medium SAND			8	12 16 13	NP	4						17	31 50/5"			8
			20		9	9 12 16	NP	10						18	6 9 13	2.87 B		10
	877.4	Medium dense to very dense, brown GRAVELLY SAND			10	6 11 11	NP	2				50		18	6 9 13	2.87 B		10

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-18-2005** Complete Drilling **04-18-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **Y. Shiu** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **31.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-003

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 900.90 ft
 North: 1993271.17 ft
 East: 992379.57 ft
 Station: 2145+96.66
 Offset: 72.95R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	835.9		55		19	4 10 13	2.13 B	13									
			60		20	8 12 18	2.54 B	12									
			65		21	11 15 19	1.80 B	12									
		Boring terminated at 65.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-18-2005** Complete Drilling **04-18-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **Y. Shiu** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **31.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-005

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 902.24 ft
 North: 1993271.50 ft
 East: 992454.51 ft
 Station: 2146+71.57
 Offset: 75.05R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 13.5 FEET--															
			5									30		6	14 21 22	NP	6
														7	7 9 11	NP	3
														8	11 12 13	NP	8
	869.2	Medium dense, brown, coarse SAND												9	5 9 10	NP	16
	866.7	Stiff, gray SILTY CLAY LOAM												10	5 6 6	1.64 B	19
	864.2	Medium dense, brown LOAM												11	4 5 6	NP	12
	888.7	Dense, brown SANDY LOAM	15		1	14 15 19	NP	6						12	19 47 12	NP	13
	886.7	Medium dense, brown LOAM			2	6 13 13	NP	11						13	6 9 9	NP	3
					3	10 11 12	NP	11						4	6 6 7	NP	9
	882.2	Medium dense to dense, brown, GRAVELLY SAND	20		4		NP	3						5			
					5		NP	9						13		3.03 B	11
			25									50					

GENERAL NOTES

Begin Drilling **05-24-2005** Complete Drilling **05-24-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&R** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **34.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-005

Datum: NGVD
 Elevation: 902.24 ft
 North: 1993271.50 ft
 East: 992454.51 ft
 Station: 2146+71.57
 Offset: 75.05R

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client: **McDonough Associates Inc.**
 Project: **Longmeadow Parkway over Fox River, Section**
 Location: **Co.**

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55		14	7 12 18	0.66 B	13									
		--A-4 (2)-- --LL=21% PL=13%-- GRAVEL=5.0% SAND=27.9% SILT=47.9% CLAY=19.2%			15	6 8 10	2.46 B	13									
					16	5 9 13	3.69 B	13									
					17	6 9 15	2.87 B	13									
					18	13 13 18	4.35 B	12									
	829.7	Boring terminated at 72.50 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-24-2005** Complete Drilling **05-24-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&R** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **34.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-006

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 900.41 ft
 North: 1993421.55 ft
 East: 992450.04 ft
 Station: 2146+71.93
 Offset: 74.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	899.4	12-inch thick dark brown TOPSOIL															
		Stiff to very stiff, brown SILTY CLAY LOAM	1	X	1	5 5 6	2.50 P	22				11	X	11	12 14 26	NP	3
			2	X	2	4 5 7	1.64 B	14				30	X	12	18 25 28	NP	2
			3	X	3	5 7 9	2.50 P	14				35	X	13	6 12 13	NP	11
			4	X	4	4 7 6	3.44 B	14				40	X	14	6 11 9	NP	11
			5	X	5	5 7 10	2.46 B	12				45	X	15	10 22 18	NP	6
			6	X	6	2 5 7	1.23 S	14		862.4	Medium dense, brown LOAM	40	X	16	5 6 6	NP	11
	883.9	Medium dense to dense, brown SANDY LOAM	7	X	7	6 11 10	NP	10				45	X	17	7 11 9	NP	9
			8	X	8	7 13 18	NP	9				50	X	18	4 6 6	NP	11
	879.4	Medium dense to very dense, brown GRAVELLY SAND	9	X	9	6 8 13	NP	3					X	19	4 8 9	NP	10
			10	X	10	9 10 13	NP	3		850.4	Boring terminated at 50.00 ft						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-12-2005** Complete Drilling **05-12-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&R** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **31.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-007

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 901.31 ft
 North: 1993274.02 ft
 East: 992529.49 ft
 Station: 2147+46.55
 Offset: 75.0R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	900.6	8-inch thick, black SILTY CLAY LOAM --TOPSOIL-- Stiff to very stiff, red brown to brown SILTY CLAY LOAM			1	3 4 5	1.00 P	21						11	13 18 21	NP	3
			5		2	5 6 8	2.50 P	14				30		12	10 18 13	NP	3
					3	4 7 11	2.00 P	14						13	17 16 14	NP	5
		GRAVEL=5.5% SAND=22.8% SILT=49.4% CLAY=22.2%			4	7 16 17	2.75 P	14		868.3	Medium dense, brown, coarse SAND			14	6 8 9	NP	12
					5	6 10 15	1.97 B	12		865.8	Medium dense, brown LOAM			15	12 10 9	NP	9
			15		6	6 10 12	2.00 P	10				40		16	5 9 9	NP	8
	885.8	Medium dense, brown LOAM			7	6 7 10	NP	9						17	6 6 6	NP	11
					8	11 12 13				858.3	Stiff to very stiff, brown to gray CLAY LOAM, with interbedded sand lenses			18	4 5 6	1.15 B	13
	882.1	Medium dense to dense, brown GRAVELLY SAND	20		9	10 12 15	NP	2				45		19	4 9 13	1.75 P	14
					10	14 20 20	NP	2				50		19	4 9 13	1.75 P	14

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-20-2005** Complete Drilling **05-23-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **31.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-007

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 901.31 ft
 North: 1993274.02 ft
 East: 992529.49 ft
 Station: 2147+46.55
 Offset: 75.0R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	831.3		55	X	20	7 7 10	2.30 B	13									
			60	X	21	5 8 9	2.79 B	13									
			65	X	22	5 7 10	1.80 B	12									
			70	X	23	5 7 9	2.54 B	13									
		Boring terminated at 70.00 ft															
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-20-2005** Complete Drilling **05-23-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **31.50 ft**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-008

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 899.84 ft
 North: 1993423.95 ft
 East: 992525.03 ft
 Station: 2147+46.93
 Offset: 74.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	899.3	7-inch thick, black SILTY CLAY LOAM --TOPSOIL--															
		--BLIND DRILL TO 16'--	5			18 23 21								5			3
														6	17 20 20		3
														7	6 9 13		13
			10											8	6 10 10		13
										862.8	Medium dense to dense, brown LOAM						
			15											9	6 10 11		9
	883.8	Medium dense to dense, brown SANDY LOAM			1	9 13 21	NP	9									
			20		2	13 13 16	NP	10						10	11 13 13		10
	879.3	Medium dense to very dense, brown GRAVELLY SANDY LOAM			3	19 20 20	NP	4									
			25		4	29 25 26	NP	4						11	15 13 19		10

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-19-2005** Complete Drilling **05-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **31.00 ft**
 At Completion of Drilling ∇ **31.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-008

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Datum: NGVD
 Elevation: 899.84 ft
 North: 1993423.95 ft
 East: 992525.03 ft
 Station: 2147+46.93
 Offset: 74.99L

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	848.8	Medium stiff to very stiff, brown CLAY LOAM to SILTY CLAY LOAM																
			55	X	12	4 5 10	0.74 B	14										
			60	X	13	3 6 8	0.90 B	13										
			65	X	14	6 11 13	1.48 B	13										
			70	X	15	12 15 20	3.03 B	12										
	829.8	Boring terminated at 70.00 ft	75															

GENERAL NOTES

Begin Drilling **05-19-2005** Complete Drilling **05-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **31.00 ft**
 At Completion of Drilling \blacktriangledown **31.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-009

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 900.18 ft
 North: 1993276.36 ft
 East: 992604.50 ft
 Station: 2148+21.64
 Offset: 75.06L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 18.5 FEET--															
			5									30		4	18 29 34	NP	3
														5	10 20 20	NP	5
														6	9 10 18	NP	7
										867.2	Medium dense, brown and gray SANDY LOAM			7	6 6 8	NP	11
			10											8	7 7 16	NP	12
										862.2	Medium dense, brown LOAM			9	7 10 17	NP	10
			15											10	7 13 15		
	881.7	Dense to very dense, brown GRAVELLY SAND	20		1	11 21 24								11	6 5 6	NP	11
					2	14 15 18	NP	7						12	5 5 5	NP	10
			25		3	8 29 32	NP	3									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-24-2005** Complete Drilling **05-24-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&R** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **31.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-009

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 900.18 ft
 North: 1993276.36 ft
 East: 992604.50 ft
 Station: 2148+21.64
 Offset: 75.06L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	845.2		55		13	7 6 7	NP	10				80		18	17 20 23	4.92 B	11
		Medium stiff to hard, gray CLAY LOAM			14	6 8 7	1.23 B	13		817.2	Boring terminated at 83.00 ft			19	10 17 27	3.28 B	12
			60		15	5 5 8	0.82 B	13				90					
			65		16	5 8 11	1.64 B	12				95					
			70		17	7 23 25	2.46 B	12				100					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-24-2005** Complete Drilling **05-24-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&R** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **31.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-010

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 898.67 ft
 North: 1993426.33 ft
 East: 992599.84 ft
 Station: 2148+21.93
 Offset: 75.00L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	898.2	10-inch thick, brown CLAY LOAM															
		--TOPSOIL--															
		Stiff to very stiff, brown SILTY CLAY LOAM			1	1 3 4	1.64 B	20						11	37 50 3	NP	3
			5		2	3 4 5	1.56 B	19				30		12	19 16 11	NP	8
					3	3 3 4	1.31 B	18						13	4 8 9	NP	19
			10		4	3 4 7	1.89 B	17						14	10 19 19	NP	12
					5	3 9 11	1.89 B	13		863.2	Medium dense to dense, brown LOAM			15	7 10 15	NP	9
			15		6	3 9 14	2.87 B	11				40		16	9 15 31	NP	10
	883.2	Medium dense to very dense, brown GRAVELLY SAND			7	9 17 23	NP	3						17	11 8 9	NP	9
			20		8	11 17 15	NP	3				45		18	6 10 10	NP	11
					9	11 14 12	NP	3						19	4 7 10	NP	11
			25		10	8 13 12	NP	4		850.7	Stiff to very stiff, gray CLAY LOAM			20	6 8 10	1.48 B	11

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-15-2005** Complete Drilling **04-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **31.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-010

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 898.67 ft
 North: 1993426.33 ft
 East: 992599.84 ft
 Station: 2148+21.93
 Offset: 75.00L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55	X	21	4 6 8	1.48 B	14									
			60	X	22	8 10 22	3.12 B	13									
	836.7	Dense, gray SANDY LOAM															
	833.7		65	X	23	6 20 20	NP	16									
		Boring terminated at 65.00 ft															
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-15-2005** Complete Drilling **04-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **31.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-011

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 899.85 ft
 North: 1993278.07 ft
 East: 992654.41 ft
 Station: 2148+71.55
 Offset: 75.00R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	899.2	7-inch thick, black SILTY CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY LOAM, gravelly			1	2 3 5	1.97 B	14						11	13 25 32			3
			5		2	5 5 6	1.48 B	13				30		12	9 13 16			12
					3	6 7 8	2.50 P	15						13	9 11 14			7
			10		4	6 6 9	2.30 B	16		866.9	Medium dense to very dense, brown, coarse SAND			14	5 13 16			21
					5	6 6 11	2.13 B	14						15	13 30 34			11
	886.9	Medium dense, brown LOAM --A-4 (0)-- GRAVEL=9.0% SAND=43.5% SILT=41.4% CLAY=6.0%			6	8 9 16	NP	10		860.4	Loose to medium dense, brown LOAM			16	8 10 12			9
					7	8 6 11	NP	11						17	10 16 13			
	881.9	Medium dense to very dense, brown GRAVELLY SAND			8	7 11 16	NP	4						18	16 10 8			11
			20		9	15 22 50/5"	NP	3						19	4 4 5			11
					10	23 34 55	NP	2						20	4 4 6			10

GENERAL NOTES

Begin Drilling **05-20-2005** Complete Drilling **05-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **29.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-011

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 899.85 ft
 North: 1993278.07 ft
 East: 992654.41 ft
 Station: 2148+71.55
 Offset: 75.00R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	847.9	Stiff to very stiff, gray CLAY LOAM	55		21	7 9 9	1.31 B	13									
	839.9	Boring terminated at 60.00 ft	60		22	8 9 11	2.79 B	12									
			65														
			70														
			75														

GENERAL NOTES

Begin Drilling **05-20-2005** Complete Drilling **05-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **29.50 ft**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-012

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 898.06 ft
 North: 1993428.03 ft
 East: 992649.88 ft
 Station: 2148+71.93
 Offset: 75.00L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	897.5	Black SILTY CLAY LOAM --BLIND DRILL TO 18.5'--															
			5									30		4	36 50/4"	NP	5
														5	30 21 22	NP	9
														6	7 9 11	NP	13
			10									35		7	6 8 21	NP	14
										861.6	Medium dense, gray LOAM			8	2 6 16	NP	10
														9	7 5 6	NP	11
														10	9 10 15	NP	12
	879.6	Medium dense to very dense, brown GRAVELLY SAND	20		1	21 24 28	NP	5		854.3	Loose to medium dense, brown to gray, fine to coarse SAND	45		11	6 8 9	NP	12
		--A-1-b (0)-- --LL=NP% PL=NP-- GRAVEL=37.1% SAND=51.6% SILT=9.7% CLAY=1.6%			2	25 18 18	NP	5						12	2 4 6	NP	13
			25		3	27 21 25	NP	6						13	5 4 3	NP	9

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-20-2005** Complete Drilling **05-23-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **30.00 ft**
 At Completion of Drilling ∇ **26.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-012

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 898.06 ft
 North: 1993428.03 ft
 East: 992649.88 ft
 Station: 2148+71.93
 Offset: 75.00L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	841.1		55		14	29 13 12	NP	9									
	841.1	Medium stiff to stiff, gray CLAY LOAM	60		15	5 8 10	0.82 S	14									
	833.1		65		16	4 9 14	1.89 B	13									
		Boring terminated at 65.00 ft	70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-20-2005** Complete Drilling **05-23-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **30.00 ft**
 At Completion of Drilling \blacktriangledown **26.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-013

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 898.92 ft
 North: 1993279.71 ft
 East: 992704.38 ft
 Station: 2149+21.55
 Offset: 74.99R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 21 FEET--															
			5							868.4	Medium dense, brown, coarse SAND	30		3	20 20 21	NP	3
														4	15 18 14	NP	8
														5	6 5 6	NP	19
														6	1 5 8	NP	22
			10							863.4	Loose to dense, brown LOAM	35		7	12 19 21	NP	12
														8	17 19 21	NP	12
														9	4 9 7	NP	12
														10	3 4 5	NP	13
	877.9	Dense to very dense, brown GRAVELLY SAND			1	50/5"								11	4 4 5	NP	11
					2	20 21 39	NP	3						12	2 4 4	NP	14

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-25-2005** Complete Drilling **05-25-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&R** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **30.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-013

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 898.92 ft
 North: 1993279.71 ft
 East: 992704.38 ft
 Station: 2149+21.55
 Offset: 74.99R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55		13	5 5 6	NP	12									
			60		14	6 9 14	NP	14									
	836.9	Very dense, gray, fine SAND															
			65		15	25 36 32	NP	15									
	831.9	Very stiff, gray CLAY LOAM															
			70		16	21 25 50/5"	2.62 B	12									
			75		17	6 8 20	2.13 B	12									
	823.9	Boring terminated at 75.00 ft															

GENERAL NOTES

Begin Drilling **05-25-2005** Complete Drilling **05-25-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&R** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **30.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-014

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 897.64 ft
 North: 1993429.56 ft
 East: 992699.94 ft
 Station: 2149+22.00
 Offset: 74.96L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	896.6	12-inch thick black TOPSOIL																
		Stiff to hard, light brown to gray SILTY CLAY LOAM			1	2 3 5	1.50 B	21						11	6 15 16		NP	4
			5		2	2 5 5	1.15 B	15				30		12	5 9 10		NP	15
					3	3 5 6	1.64 B	14						13	2 6 9		NP	19
			10		4	4 9 10	4.51 B	15						14	9 10 13		NP	19
					5	4 7 9	2.87 B	11		862.1	Dense, brown SANDY LOAM			15	14 16 24		NP	13
			15		6	4 5 6	1.64 B	11		859.6	Medium dense, brown LOAM			16	5 6 6		NP	11
	882.1	Dense, light brown SANDY LOAM			7	8 12 23	NP	10						17	4 6 8		NP	11
	879.6	Medium dense to very dense, brown GRAVELLY SAND			8	6 10 10	NP	5						18	10 8 9		NP	11
			20		9	9 11 14	NP	4		852.1	Medium dense, gray, coarse SAND			19	3 4 6		NP	14
					10	24 28 26	NP	4						20	9 12 9		NP	16

GENERAL NOTES

Begin Drilling **05-12-2005** Complete Drilling **05-12-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&R** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **29.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-014

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 897.64 ft
 North: 1993429.56 ft
 East: 992699.94 ft
 Station: 2149+22.00
 Offset: 74.96L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	843.1				21	4 6 7	1.31 B	12									
		Stiff, brown CLAY LOAM	55														
	837.6		60		22	4 6 10	1.89 B	13									
		Boring terminated at 60.00 ft															
			65														
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-12-2005** Complete Drilling **05-12-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&R** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **29.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-015

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 897.79 ft
 North: 1993281.31 ft
 East: 992754.33 ft
 Station: 2149+71.56
 Offset: 74.98R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	897.3	Brown CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY LOAM			1	1 2 4	1.50 P	21						11	11 21 18	NP	3
			5		2	1 3 4	1.80 B	13				30		12	11 18 17	NP	10
					3	2 4 6	1.56 B	12		867.5	Medium dense, brown, coarse SAND			13	2 9 11	NP	21
			10		4	2 5 8	2.21 B	17		863.5	Medium dense to dense, brown LOAM			14	9 15 21	NP	9
					5	6 11 17	1.07 B	12						15	12 18 23	NP	9
			15		6	5 6 9	1.97 B	12						16	9 15 7	NP	9
	882.3	Medium dense, gray LOAM			7	9 14 15	NP	10						17	5 7 8	NP	9
	879.8	Medium dense to dense, brown GRAVELLY SAND			8	12 11 9	NP	9						18	5 4 7	NP	12
			20		9	12 21 25	NP	3						19	4 8 10	NP	11
					10	8 16 19	NP	3						20	10 11 7	NP	12
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-15-2005** Complete Drilling **04-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&R** Logger **Y. Shiu** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **29.25 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-015

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 897.79 ft
 North: 1993281.31 ft
 East: 992754.33 ft
 Station: 2149+71.56
 Offset: 74.98R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	847.3	Stiff to very stiff, gray CLAY LOAM																
					21	2 3 7	1.80 B	13										
					22	4 3 5	1.39 B	13										
					23	6 8 11	2.54 B	14										
				24	7 11 11	2.71 B	12											
	832.8	Boring terminated at 65.00 ft	65															
			70															
			75															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-15-2005** Complete Drilling **04-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&R** Logger **Y. Shiu** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **29.25 ft**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-016

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 897.17 ft
 North: 1993431.26 ft
 East: 992749.87 ft
 Station: 2149+71.96
 Offset: 75.03L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 23.5 FEET--															
			25		1	22 33 28	NP	4		873.7	Dense to very dense, brown GRAVELLY SAND	50		11	9 10 10	NP	13
			30							865.2	Dense, brown SANDY LOAM	35		5	9 22 24	NP	19
			35							861.7	Medium dense to dense, gray LOAM	40		7	4 10 12	1.39 B	9
			40									45		9	8 9 15	NP	12
			45									50		10	8 21 20	NP	9
			50														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-23-2005** Complete Drilling **05-23-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&R** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **29.00 ft**
 At Completion of Drilling ∇ **29.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-016

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 897.17 ft
 North: 1993431.26 ft
 East: 992749.87 ft
 Station: 2149+71.96
 Offset: 75.03L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	845.7	Dense, gray GRAVELLY SAND			12	8 25 12	NP	12									
	842.7	Stiff to very stiff, gray to brown CLAY LOAM	55		13	4 7 9	1.56 B	12									
					14	2 6 11	2.21 B	13									
	835.2	Medium dense, brown SANDY LOAM			15	7 13 15	NP	15									
	832.2	Boring terminated at 65.00 ft	65														
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-23-2005** Complete Drilling **05-23-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&R** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **29.00 ft**
 At Completion of Drilling \blacktriangledown **29.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-017

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 897.12 ft
 North: 1993282.88 ft
 East: 992804.22 ft
 Station: 2150+21.73
 Offset: 75.00R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 26 FEET--								871.1	Medium dense, brown GRAVELLY SAND			1	20 12 17	NP	7
			5							869.1	Medium dense to dense, brown, medium SAND	30		2	7 8 12	NP	16
														3	7 12 23	NP	18
			10							864.1	Medium dense to very dense, brown LOAM	35		4	12 21 18	NP	15
														5	12 24 50/5"	NP	9
			15											6	20 25 32	NP	11
														7	7 7 7	NP	8
			20											8	4 5 9	NP	10
														9	4 4 9	NP	11
			25											10	5 6 20	NP	9

--A-4 (0)--
 --LL=18% PL=12%--
 GRAVEL=9.8%
 SAND=38.5%
 SILT=38.8%
 CLAY=12.9%

GENERAL NOTES

Begin Drilling **05-26-2005** Complete Drilling **05-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **31.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-017

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 897.12 ft
 North: 1993282.88 ft
 East: 992804.22 ft
 Station: 2150+21.73
 Offset: 75.00R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	844.1	Medium stiff to hard, brown CLAY LOAM			11	5 8 22	NP	14		820.1	Stiff to very stiff, gray CLAY LOAM --A-6 (4)-- --LL=24% PL=13%-- GRAVEL=6.2% SAND=31.1% SILT=39.9% CLAY=22.8%							
	55				12	4 4 6	0.82 B	12							17	5 10 15	2.87 B	12
	60				13	4 4 7	0.98 B	12							18	7 10 16	1.50 P	13
	65				14	8 9 15	2.87 B	11							19	8 10 19	2.50 P	18
	70				15	7 10 17	4.18 B	11										
	825.1	Very dense, brown and gray GRAVELLY SAND			16	36 50/5"	NP	7		807.1	Boring terminated at 90.00 ft							
	75																	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-26-2005** Complete Drilling **05-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **31.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-018

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 896.89 ft
 North: 1993432.83 ft
 East: 992799.99 ft
 Station: 2150+21.84
 Offset: 75.00L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	895.9	12-inch thick black TOPSOIL															
		Medium stiff to very stiff, brown SILTY CLAY LOAM	1	X	1	3 5	1.50 P	20				11	X	11	9 20 20		
			2	X	2	1 3 6	0.90 B	24				30	X	12	7 10 12		
			3	X	3	2 7 9	1.89 B	14					X	13	2 6 16		
			4	X	4	3 7 9	2.46 B	13					X	14	10 14 18		
			5	O	5	3 8 11				862.4	Medium dense to very dense, brown LOAM	35	X	15	5 27 50/5"		
			6	X	6	6 9 10	1.07 B	14					X	16	9 6 12		
			7	X	7	4 10 38	2.38 B	14					O	17	6 11 12		
	878.9	Medium dense, brown LOAM	8	X	8	4 9 10	NP	12					X	18	5 8 11		
			9	X	9	4 11 18	NP	4					X	19	3 8 10		
	875.4	Medium dense to dense, brown GRAVELLY SAND	10	X	10	12 16 22	NP	5					X	20	7 9 14		

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-13-2005** Complete Drilling **05-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&R** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **28.00 ft**
 At Completion of Drilling ∇ **24.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-018

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 896.89 ft
 North: 1993432.83 ft
 East: 992799.99 ft
 Station: 2150+21.84
 Offset: 75.00L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					21	4 6 8	NP	11									
			55		22	4 4 6	NP	13									
	839.9	Hard, brown to gray CLAY LOAM															
			60		23	6 9 13	4.50 P	12									
	831.9	Boring terminated at 65.00 ft	65		24	7 30 25	4.00 P	12									
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-13-2005** Complete Drilling **05-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&R** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **28.00 ft**
 At Completion of Drilling \blacktriangledown **24.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-019

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 896.65 ft
 North: 1993283.91 ft
 East: 992852.99 ft
 Station: 2150+71.76
 Offset: 75.00R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	896.35	5-inch thick black TOPSOIL															
		Medium stiff to very stiff, brown SILTY CLAY LOAM			1	4 4 5	0.98 B	17						11	18 17 18	NP	10
			5		2	4 5 8	1.97 B	14		867.2	Dense, brown, fine SAND	30		12	7 14 22	NP	22
					3	5 5 9	2.05 B	15		864.7	Very stiff, brown to gray CLAY LOAM with interbedded sand and silt lenses			13	21 26 34	3.50 P	16
			10		4	3 6 9	2.54 B	16				35		14	8 13 15	3.03 B	19
					5	8 8 13	1.72 B	12		859.7	Dense, gray GRAVELLY SAND			15	14 17 22	NP	10
			15		6	7 5 22	1.75 S	15		857.7	Medium dense to dense, brown LOAM	40		16	14 16 16	NP	9
	881.2	Dense, brown LOAM			7	36 27 21	NP	10						17	6 8 11	NP	9
	878.7	Dense, brown GRAVELLY SAND			8	12 13 17	NP	4				45		18	12 8 9	NP	10
					9	12 15 21	NP	4						19	7 9 16	NP	12
			25		10	13 17 22	NP	3				50		20	5 3 9	NP	13

GENERAL NOTES

Begin Drilling **05-19-2005** Complete Drilling **05-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **26.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-019

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 896.65 ft
 North: 1993283.91 ft
 East: 992852.99 ft
 Station: 2150+71.76
 Offset: 75.00R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	843.7	Dense to very dense, brown GRAVELLY SAND	21		21	8 15 15	NP	13									
	55		22		22	11 19 22	NP	14									
	838.7	Medium dense, brown SANDY LOAM	23		23	10 18 32	NP	15									
	60		24		24	3 4 6	NP	22									
	832.9	Stiff to very stiff, brown CLAY LOAM	25		25	5 9 15	3.44 B	11									
	826.7	Boring terminated at 70.00 ft	26		26	13 16 25	1.80 B	13									
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-19-2005** Complete Drilling **05-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **26.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-020

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 896.63 ft
 North: 1993433.85 ft
 East: 992851.18 ft
 Station: 2150+71.73
 Offset: 74.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 28.5 FEET--															
			5							868.1	Dense, brown fine to medium SAND	30	X	1	10 16 24	NP	20
										866.1	Hard, brown CLAY LOAM		X	2	11 24 38	4.51 B	18
			10							863.6	Very dense, brown SANDY LOAM	35	X	3	42 50/4"	NP	8
										861.1	Medium dense to very dense, brown LOAM		X	4	18 23 34	NP	9
			15									40	X	5	8 10 16	NP	9
													X	6	9 11 17	NP	10
			20									45	X	7	13 18 18	NP	9
													X	8	13 12 9	2.50 P	11
			25									50	X	9	6 7 8	1.15 B	11

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-24-2005** Complete Drilling **05-24-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **28.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-020

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 896.63 ft
 North: 1993433.85 ft
 East: 992851.18 ft
 Station: 2150+71.73
 Offset: 74.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	846.1	Medium dense to very dense, gray GRAVELLY SAND																
					10	3 7 13	NP	10										
				55		11	16 36 50	NP	14									
		Medium dense, gray, fine SAND																
	838.6					12	16 25 18	NP	11									
		Medium dense, gray, fine SAND																
				60		13	5 11 17	NP	15									
		Stiff to very stiff, brown CLAY LOAM																
	832.6					14	5 11 25	2.05 B	11									
				65														
		Stiff to very stiff, brown CLAY LOAM																
				70		15	11 19 36	2.00 P	12									
		Stiff to very stiff, brown CLAY LOAM																
				75		16	12 15 26	1.50 P	12									
	821.6	Boring terminated at 75.00 ft																

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-24-2005** Complete Drilling **05-24-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **28.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-021

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 896.46 ft
 North: 1993283.98 ft
 East: 992901.68 ft
 Station: 2151+21.83
 Offset: 75.03R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 31 FEET--															
			5							865.5	Dense, brown SANDY LOAM	30		1	18 14 26	NP	19
										863.5	Medium dense to dense, brown LOAM			2	11 13 18	NP	14
			10											3	11 12 17	NP	10
														4	14 15 19	NP	11
			15											5	8 12 18	NP	9
										853.5	Very dense, brown GRAVELLY SAND, with cobbles			6	48 28 26	NP	5
			20							851.0	Stiff, brown CLAY LOAM			7	21 21 29	1.97 B	12
										848.5	Medium dense, brown GRAVELLY SAND			8	9 7 5	NP	13
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-27-2005** Complete Drilling **05-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling **31.00 ft**
 At Completion of Drilling **48.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-022

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 896.65 ft
 North: 1993434.02 ft
 East: 992903.53 ft
 Station: 2151+22.75
 Offset: 75.02L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	896.1	16-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Medium stiff to very stiff, brown SILTY CLAY LOAM			1	3 5 5	2.46 B	22		871.1	Dense to very dense, fine to medium, brown SAND			11	14 22 25		
			5		2	3 4 6	1.89 B	17				30		12	15 23 28		
					3	9 11 12	2.79 B	13		865.1	Medium stiff, brown CLAY Qu=0.84 tsf MC=24%			13	14 20 22		
			10		4	4 8 10	2.38 B	13		863.6	Very dense, brown SILTY LOAM			14	20 22 41		
					5	8 12 12	1.50 P	14						15	31 48 50/5"		
	882.1	Medium dense to dense, brown, coarse SAND	15		6	6 7 10	0.98 S	11		858.6	Dense to very dense, brown LOAM			16	31 33 34		
					7	13 15 19	NP	11						17	12 24 28		
	877.4	Medium dense to very dense, brown GRAVELLY SAND	20		8	5 12 12	NP	11						18	13 14 17		
					9	13 22 30	NP	4						19	9 17 20		
			25		10	12 25 29	NP	4		848.6	Medium dense, brown GRAVELLY SAND			20	14 35 47		

GENERAL NOTES

Begin Drilling **04-14-2005** Complete Drilling **04-14-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **28.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-022

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 896.65 ft
 North: 1993434.02 ft
 East: 992903.53 ft
 Station: 2151+22.75
 Offset: 75.02L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	844.6	Stiff, gray SILTY CLAY	21	X	21	8 9 17	NP	17									
	843.6	Qp=1.25 tsf															
		Medium dense to dense, gray, medium to coarse SAND	55	X	22	9 19 18	NP	14									
				X	23	8 8 10	NP	19									
	837.6	Stiff, brown CLAY LOAM	60	X	24	5 8 10	1.48 B	12									
	831.6	Boring terminated at 65.00 ft	65	X	25	5 8 11	1.64 B	12									
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-14-2005** Complete Drilling **04-14-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **28.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-023

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 896.37 ft
 North: 1993283.24 ft
 East: 992950.28 ft
 Station: 2151+71.74
 Offset: 75.04R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	895.7	8-inch thick TOPSOIL								870.9							
		Medium stiff to stiff, brown SILTY CLAY LOAM	1	X	1	3 3 6	1.89 B	14			Very dense, brown SANDY LOAM	11	X	11	18 23 36		20
			5	X	2	4 4 8	1.89 B	14				30	X	12	12 18 34		18
			10	X	3	3 5 7	1.97 B	16					X	13	10 22 33		NP
			15	X	4	4 4 7	1.97 B	16		862.9	Dense to very dense, brown LOAM	35	X	14	14 18 28		18
			20	X	5	8 8 13	1.97 B	14					X	15	17 25 35		NP
			25	X	6	3 4 9	1.80 S	12					X	16	19 24 30		7
				X	7	3 5 7	0.82 B	11					X	17	23 29 36		8
	877.4	Medium dense to very dense, gray to brown GRAVELLY SAND	20	X	8	6 11 18	NP	3					X	18	30 43 51		8
			25	X	9	14 22 33	NP	4		849.4	Very dense, brown GRAVELLY SAND	45	X	19	20 19 23		18
				X	10	13 18 30	NP	3					X	20	18 22 30		7

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-17-2005** Complete Drilling **05-17-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **25.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-023

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 896.37 ft
 North: 1993283.24 ft
 East: 992950.28 ft
 Station: 2151+71.74
 Offset: 75.04R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	845.9	Hard, gray CLAY LOAM															
	844.4	Very dense, brown, fine SAND			21	21 29 63	6.31 S	13									
	841.9	Hard, gray CLAY LOAM	55		22	15 36 57	NP	14									
	840.9	Very dense, gray, medium to coarse SAND															
	839.6	Hard, gray CLAY LOAM			23	10 31 26	NP	10									
	837.4	Very dense, gray SANDY LOAM	60		24	9 31 50/5"	5.82 B	11									
	835.9	Stiff to hard, gray CLAY LOAM															
					25	13 18 28	5.28 B	10									
					26	12 18 30	6.15 B	10									
					27	25 26 48	1.64 B	14									
					28	15 22 38	5.66 B	11									
					29	12 25 45	3.44 B	11									
	821.4	Boring terminated at 75.00 ft	75														

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-17-2005** Complete Drilling **05-17-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **25.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-024

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 896.44 ft
 North: 1993433.20 ft
 East: 992953.94 ft
 Station: 2151+71.88
 Offset: 74.96L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 31 FEET--	5									30					
	865.4	Dense, brown LOAM				20 20 19								1		NP	18
	863.4	Dense, gray SILTY LOAM				10 20 29								2		NP	17
	860.9	Very stiff, brown CLAY LOAM				10 10 11								3		2.50 P	16
	858.4	Dense to very dense, brown LOAM				12 18 22								4		NP	8
						18 20 36								5		NP	9
						18 18 28								6		NP	8
						13 21 25								7		NP	9
						29 36 41								8		NP	7

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-24-2005** Complete Drilling **05-24-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **< 31**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-024

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 896.44 ft
 North: 1993433.20 ft
 East: 992953.94 ft
 Station: 2151+71.88
 Offset: 74.96L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	843.4	Very dense, gray GRAVELLY SAND	9		9	12 15 24	NP	9									
	840.9	Dense, brown SILTY LOAM	55		10	24 40 30	NP	12									
	838.4	Very stiff, brown CLAY LOAM	60		11	9 18 22	NP	12									
			60		12	10 25 30	6.97 B	10									
					13	12 20 21	4.10 B	12									
	831.4	Boring terminated at 65.00 ft	65		14	12 19 21	4.00 P	10									
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-24-2005** Complete Drilling **05-24-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **< 31**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-025

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 895.95 ft
 North: 1993281.71 ft
 East: 992998.91 ft
 Station: 2152+21.70
 Offset: 75.00R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	894.9	12-inch black and brown SILTY CLAY LOAM --TOPSOIL-- --BLIND DRILLING--	0														
			5														
			10							862.9	Dense, gray SILTY LOAM	35	1	8 18 29	NP	15	
			15							860.4	Dense to very dense, gray LOAM	40	2	13 27 21	NP	9	
			20									45	3	32 28 25	NP	12	
													4	19 29 34	NP	6	
													5	17 20 40	NP	10	
										850.4	Very dense, brown SANDY LOAM		6	50/4	NP	8	
			25							848.4	--AUGER REFUSAL-- Boring terminated at 47.50 ft	50					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-09-2005** Complete Drilling **06-09-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&B** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-026

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 895.42 ft
 North: 1993431.51 ft
 East: 993005.42 ft
 Station: 2152+22.07
 Offset: 74.93L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	894.4	12-inch thick, black TOPSOIL															
		Very stiff to hard, brown SILTY CLAY			1	2 3 5	2.50 P	24						11	14 20 25	NP	3
			5		2	5 5 7	2.50 P	14				30		12	12 21 28	NP	4
					3	7 8 11	4.00 P	12						13	15 16 22	NP	8
			10		4	7 9 12	5.00 P	12		862.4	Dense, brown SANDY LOAM			14	16 22 25	NP	17
	884.9	Medium dense, brown LOAM			5	7 8 9	NP	13						15	12 16 28	NP	19
	882.4	Hard, brown SILTY CLAY LOAM			6	5 8 10	4.00 P	15						16	3 13 17	NP	19
	879.9	Medium dense, brown LOAM			7	6 8 18	NP	10		854.9	Hard, brown CLAY LOAM			17	4 6 8	4.10 B	17
	876.4	Dense to very dense, brown GRAVELLY SAND			8	12 20 23	NP	4		852.4	Very dense, brown LOAM			18	9 22 28	NP	6
					9	10 10 20	NP	5						19	28 31 41	NP	9
					10	10 29 26	NP	2						20	15 28 29	NP	10

GENERAL NOTES

Begin Drilling **05-16-2005** Complete Drilling **05-16-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **30.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-026

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 895.42 ft
 North: 1993431.51 ft
 East: 993005.42 ft
 Station: 2152+22.07
 Offset: 74.93L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	839.9	Very stiff to hard, brown CLAY LOAM	21		21	20 29 47	NP	6										
			22		22	14 24 36	NP	10										
			23		23	8 10 18	3.12 B	12										
			24		24	10 14 23	4.35 B	11										
			25		25	15 22 37	3.12 B	10										
			26		26	13 14 24	3.12 B	10										
			27		27	18 22 50/4"	5.74 B	8										
			28		28	16 18 36	5.17 B	9										
	820.4	Boring terminated at 75.00 ft																

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-16-2005** Complete Drilling **05-16-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **30.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-027

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 895.25 ft
 North: 1993279.32 ft
 East: 993047.58 ft
 Station: 2152+71.77
 Offset: 75.00R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	895.03	0.3-inch thick, brown SILTY CLAY LOAM --TOPSOIL-- Very stiff to hard, brown SILTY CLAY LOAM			1	3 4 4	2.00 P	16		868.2	Dense, brown, SANDY LOAM						
			5		2	6 7 8	4.50 P	13				30		11	13 17 22	NP	20
					3	6 9 11	4.50 P	13									
			10		4	5 7 9	4.00 P	14		861.2	Very stiff, gray CLAY LOAM	35		12	16 13 19	2.62 B	18
					5	3 11 11	2.75 P	13		859.7	Very dense, gray LOAM			13	19 29 46	NP	9
			15		6	6 9 10	4.50 P	10				40		14	23 29 38	NP	9
					7	8 11 20	2.75 P	10						15	19 32 42	NP	7
	877.2	Dense to very dense, brown GRAVELLY SAND	20		8	16 34 27	NP	4		852.2	Very stiff to hard, brown CLAY LOAM	45		16	22 31 47	4.00 P	11
					9	13 22 22	NP	4						17	14 17 26	2.21 S	10
			25		10	17 20 28	NP	5				50		18	2 16 18	7.54 B	11

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-13-2005** Complete Drilling **04-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **26.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-027

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 895.25 ft
 North: 1993279.32 ft
 East: 993047.58 ft
 Station: 2152+71.77
 Offset: 75.00R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					19	12 23 32	8.53 B	11									
			55		20	12 18 25	6.97 S	10									
	838.7	Very dense, brown SANDY LOAM			21	24 50/4"	4.50 P	13									
			60		22	32 50/5"	NP	12									
	834.7	Very dense, brown, medium to coarse SAND			23	11 32 27	NP	10									
	833.0	Hard, brown CLAY LOAM			24	16 26 34	9.59 B	10									
	830.2	Boring terminated at 65.00 ft	65														
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-13-2005** Complete Drilling **04-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&S** Logger **Y. Shiu** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **26.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-028

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 894.59 ft
 North: 1993429.04 ft
 East: 993056.38 ft
 Station: 2152+71.77
 Offset: 74.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 33.5 FEET--	5									30					
			10							861.1	Medium dense to very dense, brown SILTY LOAM	35		1	14 23 43		NP 19
			15											2	17 26 27		NP 19
			20											3	18 12 9		NP 20
			25							854.1	Medium dense to very dense, brown LOAM			4	7 11 15		NP 9
											--A-4 (0)-- GRAVEL=8.5% SAND=39.3% SILT=39.8% CLAY=12.5%			5	12 18 22		NP 8
														6	14 16 29		NP 7
														7	50/4		NP 8

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-25-2005** Complete Drilling **05-25-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **< 33.5**
 At Completion of Drilling ∇ **39.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-028

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 894.59 ft
 North: 1993429.04 ft
 East: 993056.38 ft
 Station: 2152+71.77
 Offset: 74.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	841.6	Very dense, gray SANDY LOAM	55		8	27 38 36	NP	8									
	838.1	Dense to very dense, moist, gray SILTY LOAM	60		9	40 50/4"	NP	8									
	834.1	Very dense, gray SANDY LOAM	65		10	34 36 41	NP	11									
	828.1	Very stiff to hard, brown CLAY LOAM	70		11	13 15 25	NP	14									
	819.6	Boring terminated at 75.00 ft	75		12	14 23 28	NP	10									
					13	30 50/4"	NP	8									
					14	12 20 28	4.02 B	11									
					15	13 20 27	3.53 B	12									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-25-2005** Complete Drilling **05-25-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **< 33.5**
 At Completion of Drilling ∇ **39.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-029

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 893.53 ft
 North: 1993276.08 ft
 East: 993099.74 ft
 Station: 2153+25.41
 Offset: 74.68R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 36 FEET--	5									30					
			10							857.5	Dense, gray SILT			1	12 23 21	NP	17
			15							855.5	Hard, brown CLAY LOAM			2	7 9 12	4.10 B	16
			20							853.0	Very dense, brown LOAM			3	12 22 32	NP	8
			25											4	50/5"	NP	7
														5	50/4"	NP	11
														6	31 50 50/4"	NP	5

GENERAL NOTES

Begin Drilling **06-27-2005** Complete Drilling **06-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **<36**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-030

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 894.01 ft
 North: 1993425.53 ft
 East: 993107.28 ft
 Station: 2153+21.77
 Offset: 74.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	893.0	12-inch thick, black SILTY CLAY LOAM															
		--TOPSOIL--															
		Stiff to very stiff, gray to brown SILTY CLAY LOAM			1	3 2 4	NA	22						11	26 36 44	NP	3
			5		2	2 4 4	2.50 P	14		865.0	Very dense, brown, fine to medium SAND	30		12	25 35 45	NP	4
					3	3 6 11	1.56 B	15						13	16 26 31	NP	18
			10		4	5 5 10	2.30 B	15						14	14 29 26	NP	19
					5	5 6 13	2.46 B	13		858.5	Medium dense to dense, gray SILT			15	12 15 18	NP	19
	881.0	Medium dense to very dense, brown SILTY LOAM	15		6	3 10 18	NP	12						16	4 6 9	NP	18
					7	7 15 50/4"	NP	11		853.5	Very dense, brown SILTY LOAM with interbedded sand lenses			17	16 16 35	NP	8
	876.0	Very dense, brown GRAVELLY SAND	20		8	22 30 42	NP	3						18	40 40 48	NP	9
					9	24 36 39	NP	3		848.5	Very dense, brown LOAM			19	50/3"	NP	25
					10	14 22 33	NP	2						20	50/6"	NP	19

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-26-2005** Complete Drilling **05-26-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **29.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-030

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 894.01 ft
 North: 1993425.53 ft
 East: 993107.28 ft
 Station: 2153+21.77
 Offset: 74.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	837.8				21	80/3"	NP	19									
					22	75/6"	NP	14									
			55							814.0		80		30	19 26 35	4.10 B	10
					23	140/6"					Boring terminated at 80.00 ft						
	837.8	Very dense, brown to gray GRAVELLY SAND			24	20 28 39	NP	11									
			60		25	18 29 42	NP	9									
					26	21 40 50/0"	NP	17									
			65		27	14 21 27	3.53 S	10									
	827.5	Very stiff to hard, gray to brown CLAY LOAM			28	13 22 30	4.50 P	10									
			70		29	28 36 48	10.25 B	9									
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-26-2005** Complete Drilling **05-26-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **29.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-031

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 892.54 ft
 North: 1993281.02 ft
 East: 993125.15 ft
 Station: 2153+50.96
 Offset: 67.68R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	891.4	13-inch thick, black and brown SILTY CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY LOAM			1	3 4 5	1.39 S	23						11	16 19 20			4
			5		2	3 4 7	1.56 B	14		864.5	Dense, brown fine SAND	30		12	12 17 18			19
			10		3	2 5 6	2.21 B	14		861.0	Medium dense to dense, brown to gray SILTY LOAM	35		13	15 21 23			26
			15		4	3 8 10	2.87 B	12				40		14	8 12 19			19
			20		5	4 7 23	1.48 B	13				45		15	15 13 14			16
			25		6	12 11 8	1.07 B	15		854.5	Very stiff, gray CLAY LOAM to LOAM	50		16	9 17 22	2.62 B		22
	874.5	Dense, brown GRAVELLY SAND			7	14 14 21	NP	9						17	14 22 27	2.05 B		10
					8	16 23 22	NP	4		849.5	Very dense, brown LOAM			18	12 26 31			11
					9	16 21 20	NP	4						19	29 33 50			9
					10	13 17 19	NP	3						20	18 29 50/5"			9

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-09-2005** Complete Drilling **06-10-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&B** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **28.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-031

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 892.54 ft
 North: 1993281.02 ft
 East: 993125.15 ft
 Station: 2153+50.96
 Offset: 67.68R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	839.5	Dense, gray, medium to coarse SAND	21		21	31 38 35	NP	11									
	836.0	Hard, gray CLAY LOAM	22		22	8 20 16	NP	13									
	834.5	Dense to very dense, gray, fine to coarse SAND	23		23	11 25 32	10.25 B	13									
	829.5	Hard, gray CLAY LOAM	24		24	8 36 50/5"	NP	16									
	829.5	Hard, gray CLAY LOAM	25		25	9 46 50/5.5"	NP	16									
	822.5	Hard, gray CLAY LOAM	26		26	14 18 23	7.63 B	10									
			27		27	14 31 31	7.71 B	10									
			28		28	15 20 30	4.51 B	11									
		Boring terminated at 70.00 ft	70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-09-2005** Complete Drilling **06-10-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&B** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **28.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-032

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 893.44 ft
 North: 1993429.36 ft
 East: 993171.77 ft
 Station: 2153+83.70
 Offset: 84.30L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	892.8	8-inch thick brown LOAM --TOPSOIL--															
		--BLIND DRILL TO 38.5 FEET--	5									30					
			10									35					
			15							854.9	Dense, brown SILTY LOAM	40	1	9 16 22	NP	17	
										853.4	Very stiff, gray SILTY CLAY		2	3 7 12	3.50 B	15	
										850.4	Very stiff, gray CLAY LOAM		3	4 6 15	2.25 S	13	
			20							846.9	Dense to very dense, brown LOAM		4	10 16 24	NP	9	
			25									50	5	11 25 30	NP	11	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-24-2005** Complete Drilling **06-24-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **48.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-032

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 893.44 ft
 North: 1993429.36 ft
 East: 993171.77 ft
 Station: 2153+83.70
 Offset: 84.30L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					6	13 17 31	NP	7									
			55		7	18 30 48	NP	7									
					8	11 27 43	NP	10									
	835.4	Dense, brown GRAVELLY SAND			9	9 15 28	NP	17									
	832.9	Very stiff to hard, brown and gray CLAY LOAM			10	8 13 21	7.22 B	10									
					11	5 12 30	4.18 B	10									
					12	6 11 19	4.10 B	12									
					13	6 29 57	3.12 S	11									
	823.4	Boring terminated at 70.00 ft	70														
			75														

GENERAL NOTES

Begin Drilling **06-24-2005** Complete Drilling **06-24-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **48.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-033

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 888.93 ft
 North: 1993266.95 ft
 East: 993193.10 ft
 Station: 2154+21.74
 Offset: 75.01R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 38.5 FEET--	5									30					
			10									35					
			15							850.4	Dense to very dense, brown LOAM	40	X	1	41 50/4"	NP	9
			20							845.9	Very dense, gray SANDY LOAM	45	X	2	4 16 25	NP	8
			25									50	X	3	25 35 53	NP	12
													X	4	18 27 50/5"	NP	14
										840.9	Very stiff, brown CLAY LOAM		X	5	24 39 47	2.71 S	9

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-27-2005** Complete Drilling **06-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **50.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-033

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 888.93 ft
 North: 1993266.95 ft
 East: 993193.10 ft
 Station: 2154+21.74
 Offset: 75.01R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	838.4	Loose, gray, medium SAND															
	837.4	Very stiff to hard, brown CLAY LOAM			6	2 4 6	6.31 B	11									
				55	7	5 20 21	3.69 B	11									
					8	10 22 30	9.10 B	10									
	830.9	Very dense, brown, fine SAND			9	18 50/4"	NP	14									
				60	10	25 49 50/3"	NP	16									
					11	23 47 50/5"	NP	13									
	823.4	Hard, brown CLAY LOAM			12	14 25 29	5.66 B	10									
					13	12 19 30	5.82 B	10									
	818.9	Boring terminated at 70.00 ft	70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-27-2005** Complete Drilling **06-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **50.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-034

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 892.79 ft
 North: 1993416.30 ft
 East: 993209.87 ft
 Station: 2154+21.77
 Offset: 74.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	892.3	6-inch thick TOPSOIL															
		Medium stiff to hard, brown SILTY CLAY LOAM			1	3 4 5	1.56 B	16						11	27 38 50	NP	3
			5		2	3 7 10	2.79 B	14				30		12	16 32 35	NP	8
					3	6 9 10	4.59 B	12		861.3	Medium dense to very dense, brown and gray, fine to medium SAND			13	22 30 40	NP	15
			10		4	7 14 16	3.53 B	14				35		14	14 26 32	NP	19
					5	4 9 11	2.50 P	12						15	16 35 50	NP	16
					6	1 6 7	0.90 B	21						16	10 12 16	NP	17
	877.3	Medium dense, brown SANDY LOAM			7	8 7 10	NP	11		852.3	Hard, brown CLAY LOAM			17	9 12 22	4.35 B	18
	874.8	Very dense, brown GRAVELLY SAND			8	32 40 50/3"	NP	4		849.3	Very dense, brown LOAM			18	18 25 40	NP	8
			20		9	38 40 45	NP	4				45		19	20 30 42	NP	8
					10	32 50 50	NP	3				50		20	28 24 30	NP	8

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-27-2005** Complete Drilling **05-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **29.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-035

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 887.63 ft
 North: 1993266.09 ft
 East: 993241.61 ft
 Station: 2154+71.26
 Offset: 70.08R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Stiff, brown SILTY CLAY LOAM			1	2 4 6	1.48 B	17						11	11 18 18	NP	7
			5		2	3 8 9	1.72 B	11		857.6	Dense to very dense, gray LOAM	30		12	2 25 30	NP	16
					3	2 3 4	1.15 B	12						13	24 28 32	NP	9
					4	10 50/0"		9						14	11 23 33	NP	8
	877.9	Medium dense, brown LOAM	10		5	10 14 10	NP	7						15	14 24 19	NP	12
	874.6	Medium dense, brown SANDY LOAM			6	5 7 12	NP	11						16	6 15 28	NP	10
	872.1	Medium dense to very dense, brown GRAVELLY SAND			7	4 10 14	NP	3		847.1	Medium dense, gray SANDY LOAM			17	1 1 12	NP	13
					8	12 24 22	NP	3		844.6	Medium stiff to hard, brown CLAY LOAM			18	3 5 6	1.48 B	13
			20		9	21 38 36	NP	3						19	4 6 7	1.10 B	14
					10	8 18 19	NP	9						20	4 4 6	0.90 B	14

GENERAL NOTES

Begin Drilling **06-13-2005** Complete Drilling **06-14-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **W. Wang** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **23.00 ft**
 At Completion of Drilling ∇ **40.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-035

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 887.63 ft
 North: 1993266.09 ft
 East: 993241.61 ft
 Station: 2154+71.26
 Offset: 70.08R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					21	3 5 6	1.07 B	13									
			55		22	2 4 8	1.89 B	13				80		30	10 14 10	3.00 P	13
					23	4 4 8	1.07 B	13									
			60		24	4 6 9	1.80 B	10		802.6		85		31	7 12 16	3.61 B	12
										Boring terminated at 85.00 ft							
					25	4 8 15	4.51 B	11									
			65		26	9 11 14	4.18 B	12				90					
					27	5 7 13	5.00 B	12									
			70		28	9 13 14						95					
					29	7 10 12	3.69 S	12				100					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-13-2005** Complete Drilling **06-14-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **W. Wang** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **23.00 ft**
 At Completion of Drilling ∇ **40.00 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.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-036

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 892.13 ft
 North: 1993410.05 ft
 East: 993260.75 ft
 Station: 2154+71.77
 Offset: 74.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	891.3	10-inch thick, brown LOAM --TOPSOIL--															
		--BLIND DRILLING TO 41 FEET--	5														
			10														
			15														
			20							851.1	Very stiff, gray SILTY CLAY to CLAY LOAM	45	1	9 11 16	3.50 B	20	
			25							849.1	Dense to very dense, brown LOAM	45	2	16 20 26	NP	8	
												50	3	24 21 30	NP	7	
												50	4	32 26 40	NP	7	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-22-2005** Complete Drilling **06-23-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **58.00 ft**
 At Completion of Drilling \blacktriangledown **28.50 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-036

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 892.13 ft
 North: 1993410.05 ft
 East: 993260.75 ft
 Station: 2154+71.77
 Offset: 74.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	841.6	HARD DRILLING THROUGH COBBLES AND BOULDERS			5	50/4"	NP	1										
					6	52 50/5"												
				55		7	70 52 50/3"											
	833.6	Stiff to hard, gray CLAY LOAM			8	22 22 35	1.25 P	14										
				60		9	12 10 18	4.50 B	10									
						10	10 13 26	4.50 B	10									
				65		11	35 31 42	4.50 P	11									
						12	14 23 34	4.25 B	11									
				70														
	822.1	Boring terminated at 70.00 ft																
			75															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-22-2005** Complete Drilling **06-23-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **58.00 ft**
 At Completion of Drilling ∇ **28.50 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-037

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 886.19 ft
 North: 1993254.42 ft
 East: 993289.68 ft
 Station: 2155+21.74
 Offset: 75.09R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	885.4	10-inch thick, brown LOAM --TOPSOIL-- --BLIND DRILL--															
			5														
			10														
			15														
			20							845.2	Stiff, brown CLAY LOAM			1	5 5 8	1.72 B	13
			25											2	6 7 10	1.64 B	13
										840.7	Medium dense, brown LOAM			3	9 12 14	NP	17
										838.2	Stiff to very stiff, brown CLAY LOAM			4	5 6 8	1.48 B	12

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-28-2005** Complete Drilling **06-28-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **K. Anderson** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **35.00 ft**
 At Completion of Drilling \blacktriangledown **71.80 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.



BORING LOG S-037

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 886.19 ft
 North: 1993254.42 ft
 East: 993289.68 ft
 Station: 2155+21.74
 Offset: 75.09R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					5	7 8 13	2.87 B	12									
			55		6	7 12 12	2.54 B	12				80		14	13 17 18	--	19
					7	6 8 9	2.05 B	12									
			60		8	5 6 10	2.46 B	12		801.2		85		15	21 14 13	1.89 B	13
					9	5 9 13	3.20 B	12									
			65		10	7 11 11	3.53 B	11				90					
					11	8 15 17	3.44 B	12									
			70		12	10 12 16	2.95 B	12				95					
					13	11 21 28	--	15				100					

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-28-2005	Complete Drilling	06-28-2005	While Drilling	▽	35.00 ft	
Drilling Contractor	PRECON DRILLING	Drill Rig	CME-75 ATV	At Completion of Drilling	▼	71.80 ft	
Driller	K&J	Logger	K. Anderson	Time After Drilling		NA	
Drilling Method	3.25-inch HSA	Checked by	N. Davis	Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-038

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 889.93 ft
 North: 1993402.90 ft
 East: 993311.44 ft
 Station: 2155+21.73
 Offset: 74.97L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	889.46	6-inch thick, black TOPSOIL --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY			1	4 5 7	1.75 P	13						11	14 22 27		
			5		2	3 4 6	2.21 B	14				30		12	10 22 29		
					3	3 7 9	2.87 B	13						13	19 26 29		
			10		4	4 10 10	2.46 B	13				35		14	18 22 28		
	879.4	Very dense, brown GRAVELLY SAND			5	15 22 50/3"	NP	4						15	18 25 28		
	876.9	Medium dense, brown LOAM			6	4 8 11	NP	10				40		16	26 23 26		
	874.4	Very dense, brown GRAVELLY SAND			7	32 60	NP	4						17	20 36 46		
			20		8	21 21 31	NP	6				45		18	20 32 70		
					9	15 28 29	NP	4						19	24 49 68		
	866.9	Dense to very dense, brown, fine SAND			10	24 24 30	NP	16				50		20	18 59		

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-31-2005** Complete Drilling **05-31-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **26.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-038

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 889.93 ft
 North: 1993402.90 ft
 East: 993311.44 ft
 Station: 2155+21.73
 Offset: 74.97L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	839.4	Medium dense to very dense, brown GRAVELLY SAND			21	40 59	NP	14									
				55		22	10 2 12	NP	19								
	833.4	Very stiff to hard, brown CLAY LOAM			23	16 26 40	10.25 S	10									
				60		24	9 17 28	7.22 B	11								
						25	9 12 28	3.28 S	10								
				65		26	16 19 43	9.02 S	10								
						27	14 20 35	9.84 B	10								
				70		28	15 35 43	8.28 B	10								
						29	17 29 42	7.87 B	10								
						30	10 26 43	9.02 B	11								
	814.9			75													

Boring terminated at 75.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-31-2005** Complete Drilling **05-31-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **26.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-039

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 884.34 ft
 North: 1993246.66 ft
 East: 993337.74 ft
 Station: 2155+71.74
 Offset: 75.38R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	883.3	12-inch thick, black and brown SILTY CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown and gray SILTY CLAY LOAM	0-4	X	1	1 4 4	2.30 B	25				0-4	X	6	16 42 50		
			4-6	X	2	2 4 6	1.48 B	14				4-6	X	7	3 4 7		
			6-15	X	3	6 7 15	2.38 S	19				6-15	X	8	4 5 8		
	869.8	Medium dense to very dense, brown GRAVELLY SAND	15-20	X	4	16 19 40	NP	4				15-20	X	9	4 5 9		
			20-25	X	5	11 11 18	NP	16				20-25	X	10	4 7 13		
	860.3	Medium dense to very dense, brown LOAM	25-50	X						839.8	Medium dense to dense, brown SANDY LOAM	45-50	X	11	11 12 19		

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-14-2005** Complete Drilling **06-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **29.50 ft**
 At Completion of Drilling ∇ **46.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-039

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 884.34 ft
 North: 1993246.66 ft
 East: 993337.74 ft
 Station: 2155+71.74
 Offset: 75.38R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	830.8				12	12 11 10	NP	14									
		Medium stiff to hard, brown and gray CLAY LOAM	55		13	2 4 7	1.56 B	12				80		22	6 7 14	2.21 B	12
					14	5 6 12	1.89 B	13									
			60		15	4 10 15	3.69 B	12				85		23	7 8 16	1.97 B	11
					16	8 12 21	4.51 B	11									
			65		17	8 7 16	3.28 B	11				90		24	5 10 16	3.36 B	13
					18	6 11 20	4.02 B	12									
			70		19	11 11 21	1.80 B	12		789.3		95		25	8 11 21	1.75 P	17
					20	6 7 20	2.46 B	11		Boring terminated at 95.00 ft							
			75		21	7 8 12	0.82 B	12				100					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-14-2005** Complete Drilling **06-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **29.50 ft**
 At Completion of Drilling ∇ **46.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-040

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 888.27 ft
 North: 1993400.98 ft
 East: 993362.26 ft
 Station: 2155+70.91
 Offset: 80.88L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	887.86	6-inch thick, brown LOAM --TOPSOIL--															
		--BLIND DRILLING TO 46 FEET--	5									30					
			10									35					
			15									40					
			20									45					
										842.3	Very dense, brown LOAM		X	1	57 50/3	1.75 P	12
										840.3	Medium dense, brown, medium SAND		X	2	4 7 10	NP	20
			25									50					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-23-2005** Complete Drilling **06-23-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **48.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-040

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 888.27 ft
 North: 1993400.98 ft
 East: 993362.26 ft
 Station: 2155+70.91
 Offset: 80.88L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	837.8	Very dense, brown GRAVELLY SAND			3	17 46 50/5"	NP	5									
	835.3				4	16 22 28	7.22 B	10						13	20 30 53	6.56 B	29
		Stiff to hard, gray CLAY LOAM with interbedded silt lenses	55		5	14 19 28	7.54 B	10									
			60		6	11 24 29	5.33 B	11									
					7	50/3"											
			65		8	11 18 25	5.41 B	10									
					9	50/3"											
			70		10	20 30 50/5"	7.63 B	10									
					11	20 32 45	7.38 B	10									
			75		12	16 29 47	10.25 B	10									
										808.3	Boring terminated at 80.00 ft	80					

GENERAL NOTES

Begin Drilling **06-23-2005** Complete Drilling **06-23-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **48.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-041

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 883.35 ft
 North: 1993239.03 ft
 East: 993380.77 ft
 Station: 2156+16.62
 Offset: 75.57R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	882.8	7-inch thick brown LOAM --TOPSOIL--															
		--BLIND DRILLING TO 43.5 FEET--	5									30					
			10									35					
			15									40					
			20							839.9	Stiff, gray CLAY LOAM	45		1	8 7 7	1.64	12
										837.9	Medium dense, gray SANDY LOAM, gravelly			2	4 5 10	NP	10
										835.4	Stiff to hard, gray CLAY LOAM	50		3	3 6 9	1.89	13

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-27-2005** Complete Drilling **06-28-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **45.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-041

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 883.35 ft
 North: 1993239.03 ft
 East: 993380.77 ft
 Station: 2156+16.62
 Offset: 75.57R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
					4	2 9 19	2.05 B	12										
			55		5	3 8 10	2.30 B	12				80		13	5 10 11	1.64 B	12	
					6	8 13 19												
			60		7	9 7 13	2.30 B	11				85		14	6 8 16	1.89 B	12	
					8	13 8 10	1.80 B	12		798.4			Boring terminated at 85.00 ft					
			65		9	18 16 11	1.89 B	12				90						
					10	4 8 15	2.13 B	12										
			70		11	4 11 15	4.59 B	11				95						
					12	9 10 14	3.12 B	12				100						

GENERAL NOTES

Begin Drilling **06-27-2005** Complete Drilling **06-28-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **45.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-042

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 887.46 ft
 North: 1993386.44 ft
 East: 993394.74 ft
 Station: 2156+04.47
 Offset: 71.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	886.6	10-inch thick, dark brown LOAM --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY LOAM																
			5		1	5 5 8	2.13 B	21				30		6	23 26 36			16
			10		2	4 7 10	1.31 B	14		855.5	Very dense, brown and gray LOAM	35		7	7 19 31			7
	875.5	Dense, brown GRAVELLY SAND																
	873.2	Dense, brown LOAM	15		3	8 15 16	NP	6				40		8	30 59 40/2"			8
	870.5	Very dense, brown GRAVELLY SAND																
			20		4	18 26 36	NP	6				45		10	18 35 25			7
	865.5	Dense to very dense, brown, fine to medium SAND -- Hard Drilling to 26'-6"																
			25		5	17 27 20	NP	8		842.0	Medium dense to dense, brown GRAVELLY SAND							
												50		12	5 5 7			19

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-20-2005** Complete Drilling **06-21-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **26.50 ft**
 At Completion of Drilling ∇ **26.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-042

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 887.46 ft
 North: 1993386.44 ft
 East: 993394.74 ft
 Station: 2156+04.47
 Offset: 71.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	836.0	Very stiff to hard, gray CLAY LOAM			13	11 15 22	7.22 S	10										
				55		14	3 11 16	6.56 B	10			80		23	20 31 37			
						15	9 15 31	5.66 B	10					24	18 26 32			
				60		16	8 26 40	4.50 P	10			85		25	17 24 27 32	4.76 B	10	
						17	22 36 58				802.0	Boring terminated at 85.50 ft						
				65		18	15 21 29	6.81 B	10				90					
						19	16 22 31	6.77 B	10									
				70		20	20 28 39	7.30 B	10				95					
						21	70/4	3.69 B	7									
				75		22	15 27 29	4.50 P	10				100					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-20-2005** Complete Drilling **06-21-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **26.50 ft**
 At Completion of Drilling ∇ **26.00 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.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-043

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 881.09 ft
 North: 1993229.86 ft
 East: 993437.70 ft
 Station: 2156+74.36
 Offset: 74.41R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Very stiff, brown SILTY CLAY LOAM			1	4 3 6	3.50 P	14						11	11 17 23	NP	22
	875.6	Medium dense, brown, GRAVELLY SAND			2	4 4 6	2.50 P	14		853.1	Dense to very dense, brown LOAM	30		12	9 15 23	NP	8
					3	5 6 7	NP	9						13	10 25 24	NP	8
					4	6 6 6	NP	5						14	14 30 41	NP	7
					5	7 9 9	NP	3						15	8 27 29	NP	8
					6	6 10 10	NP	3						16	12 32 40	NP	8
					7	8 7 12	NP	7						17	16 40 24	NP	8
					8	7 10 12	NP	3		838.1	Very dense, gray GRAVELLY SANDY LOAM			18	16 22 31	NP	11
	860.6	Dense to very dense, brown SANDY LOAM			9	10 16 30	NP	18		835.6	Stiff to hard, brown CLAY LOAM			19	1 10 24	4.50 P	11
					10	17 30 49	NP	20						20	12 18 19	8.61 B	9

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-06-2005** Complete Drilling **06-07-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **W. Wang** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **28.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-043

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 881.09 ft
 North: 1993229.86 ft
 East: 993437.70 ft
 Station: 2156+74.36
 Offset: 74.41R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					21	7 11 28	10.25 B	10									
			55		22	12 25 38	1.50 P	12									
					23	22 30 35	9.43 B	11									
			60		24	21 31 50/5"	10.25 B	10									
					25	15 27 35	8.20 B	10									
			65		26	19 23 35	2.30 B	12									
					27	17 25 33	4.00 P	11									
			70		28	15 21 25	10.25 B	9									
					29	9 13 21	4.35 B	11									
			75		30	18 22 35	2.75 B	12									
	806.1	Boring terminated at 75.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-06-2005** Complete Drilling **06-07-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **W. Wang** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **28.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-044

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Datum: NGVD
 Elevation: 886.34 ft
 North: 1993382.60 ft
 East: 993471.09 ft
 Station: 2156+79.89
 Offset: 81.83L

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 45 FEET--	5									30					
			10									35					
			15									40					
			20							841.3	Very dense, brown GRAVELLY SAND	45		1	21 21 33	NP	26
			25							837.3	Hard, gray CLAY LOAM	50		2	11 19 31	4.84 S	12

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-17-2005** Complete Drilling **06-17-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **45.00 ft**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-044

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 886.34 ft
 North: 1993382.60 ft
 East: 993471.09 ft
 Station: 2156+79.89
 Offset: 81.83L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)			
	811.3				3	6 18 23	5.74 B	11												
				55		4	15 29 33	6.07 B	10											
						5	14 24 34													
					60		6	13 20 26	4.51 B	11										
							7	13 20 27	5.41 B	10										
					65		8	11 20 29	9.43 B	10										
							9	13 27 32	6.89 B	11										
					70		10	13 23 35	4.84 B	10										
							11	11 19 39	7.79 B	10										
					75		12	17 25 38	4.35 B	10										
				Boring terminated at 75.00 ft																

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-17-2005** Complete Drilling **06-17-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **45.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-045

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 877.76 ft
 North: 1993170.83 ft
 East: 993484.14 ft
 Station: 2157+30.61
 Offset: 124.18R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 47 FEET--	5									30					
			10									35					
			15									40					
			20									45					
			25							830.8	Hard, brown CLAY LOAM	46.00	1	6 9 14	8.36 B	11	
												50	2	5 10 16	7.38 B	10	

GENERAL NOTES

Begin Drilling **06-02-2005** Complete Drilling **06-03-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **46.00 ft**
 At Completion of Drilling \blacktriangledown **37.50 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-045

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 877.76 ft
 North: 1993170.83 ft
 East: 993484.14 ft
 Station: 2157+30.61
 Offset: 124.18R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)			
	802.8				3	12 16 24	9.02 B	10												
			55		4	10 15 41	5.74 B	10												
					5	13 18 32	7.54 B	11												
			60		6	13 12 36	6.81 B	10												
					7	9 18 21	5.90 B	11												
			65		8	5 13 20	4.84 B	11												
					9	29 25 31	NA	13												
			70		10	12 23 28	8.36 B	10												
					11	24 26 34	10.25 B	10												
			75		12	43 27 31	9.84 B	11												
				Boring terminated at 75.00 ft																

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-02-2005** Complete Drilling **06-03-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **46.00 ft**
 At Completion of Drilling ∇ **37.50 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.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-046

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 883.97 ft
 North: 1993371.18 ft
 East: 993511.18 ft
 Station: 2157+21.38
 Offset: 77.77L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	883.64	4-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY LOAM			1	5 7 9	3.77 B	10		858.5	Medium dense to dense, brown SILTY LOAM			11	7 9 16	NP	17
			5		2	7 8 11	1.64 B	11				30		12	15 16 26	NP	20
	878.5	Medium dense, brown LOAM			3	8 8 10	NP	10		853.5	Very stiff, gray CLAY			13	6 9 15	3.44 B	16
			10		4	1 5 10	NP	11		852.0	Dense to very dense, brown LOAM			14	15 15 21	NP	8
	873.5	Medium dense to very dense, brown GRAVELLY SAND with cobbles			5	12 14 15	NP	7						15	30 26 35	NP	8
			15		6	6 11 14	NP	5				40		16	22 25 33	NP	8
					7	24 14 24	NP	4		843.5	Very dense, brown GRAVELLY SAND			17	20 37 41	NP	11
			20		8	9 21 23	NP	3				45		18	19 26 21	NP	9
	863.5	Medium dense, brown, fine SAND			9	6 9 14	NP	8		838.5	Very dense, brown SANDY LOAM			19	20 33 44	NP	15
					10	7 14 15	NP	8		835.0	Very stiff to hard, brown CLAY LOAM			20	22 16 18	9.18 B	11

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-21-2005** Complete Drilling **06-22-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **27.00 ft**
 At Completion of Drilling ∇ **38.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-046

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 883.97 ft
 North: 1993371.18 ft
 East: 993511.18 ft
 Station: 2157+21.38
 Offset: 77.77L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	823.5	Very dense, brown LOAM			21	10 13 21	7.30 B	10		807.5	Hard, gray CLAY LOAM			31	8 14 22	NP	12
			55		22	8 12 24	6.81 B	11		804.0		80		32	4 12 25	9.51 B	10
					23	11 15 25	6.31 B	11			Boring terminated at 80.00 ft						
			60		24	14 20 40	2.87 B	12									
	821.0	Dense, gray SILT			25	22 50/5"	NP	13									
	820.2	Hard, gray CLAY LOAM			26	20 16 32	7.05 B	9									
	818.5	Very dense, gray LOAM			27	21 33 50/4"	NP	8									
	815.0	Hard, brown CLAY LOAM			28	22 15 24	4.26 B	9									
					29	12 19 39	7.22 B	10									
	810.0	Dense, gray, medium SAND			30	10 54 50/3"	9.02 B	10									

GENERAL NOTES

Begin Drilling **06-21-2005** Complete Drilling **06-22-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **27.00 ft**
 At Completion of Drilling ∇ **38.00 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.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-047

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 875.35 ft
 North: 1993149.18 ft
 East: 993509.49 ft
 Station: 2157+59.42
 Offset: 140.95R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	874.9	6-inch thick TOPSOIL								849.9							
		Soft to stiff, brown CITY CLAY LOAM			1	8 3 2	1.75 P	8			Stiff to very stiff, gray SILTY CLAY			11	18 19 22	2.05 S	17
			5		2	4 5 2	0.50 P	12				30		12	10 11 10	2.05 B	15
					3	3 4 7	0.82 B	21						13	4 8 27	1.56 B	17
			10		4	6 5 5	0.41 S	21		842.4	Dense to very dense, brown LOAM			14	11 20 27	NP	8
	864.9	Loose, brown, medium SAND			5	4 3 4	NP	11						15	24 27 28	NP	7
					6	3 2 2	NP	10		837.4	Very stiff to hard, brown CLAY LOAM			16	30 14 25	3.85 S	11
			15		7	2 1 3	NP	10		834.9	Medium dense, gray, coarse SAND			17	3 6 14	NP	18
					8	3 3 4	NP	8		831.9	Hard, gray CLAY LOAM			18	8 14 18	9.43 B	10
			20		9	4 5 8	0.90 B	19						19	13 17 27	9.27 B	12
	854.9	Medium stiff, brown SANDY CLAY			10	7 7 15	NP	20						20	11 17 26	8.28 B	11
	852.4	Medium dense, brown SILT															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-01-2005** Complete Drilling **06-01-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **21.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-047

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 875.35 ft
 North: 1993149.18 ft
 East: 993509.49 ft
 Station: 2157+59.42
 Offset: 140.95R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	805.4				21	12 19 24	7.38 B	10									
			55		22	7 14 23	7.05 B	10									
					23	14 18 50/4"	10.25 B	11									
			60		24	26 31 35	4.50 P	13									
					25	9 15 27	6.56 B	11									
			65		26	10 50/2"	5.74 B	11									
					27	9 26 26	5.82 B	10									
			70		28	11 19 28	7.79 B	11									
		Boring terminated at 70.00 ft															
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-01-2005** Complete Drilling **06-01-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **21.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-048

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 877.46 ft
 North: 1993370.70 ft
 East: 993575.21 ft
 Station: 2157+84.46
 Offset: 88.75L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 46 FEET--	5									30					
			10									35					
			15									40					
			20									45					
										831.5	Hard, brown CLAY LOAM			1	8 11 20	7.05 B	10
										828.7	Dense, brown SILTY LOAM			2	15 21 22	NP	14
			25							827.7							

GENERAL NOTES

Begin Drilling **06-16-2005** Complete Drilling **06-17-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **45.50 ft**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-048

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 877.46 ft
 North: 1993370.70 ft
 East: 993575.21 ft
 Station: 2157+84.46
 Offset: 88.75L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)		
		Stiff to hard, gray CLAY LOAM																	
					3	10 15 20	1.48 B	11											
				55		4	9 14 20	4.02 B		11	797.5		80		13	6 12 17	3.03 B	12	
						5	8 10 17	3.77 B		10			Boring terminated at 80.00 ft						
				60		6	11 18 31	4.50 P		10				85					
						7	14 10 20	3.44 B		10									
				65		8	14 20 20	3.25 P		10				90					
						9	10 12 21	3.69 B		10									
				70		10	9 14 19	3.61 B		10				95					
						11	8 11 22	3.94 B		11									
				75		12	10 18 21	4.02 B		11				100					

GENERAL NOTES

Begin Drilling **06-16-2005** Complete Drilling **06-17-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **45.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-050

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 872.38 ft
 North: 1993348.89 ft
 East: 993608.25 ft
 Station: 2158+20.87
 Offset: 73.19L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Medium dense, brown GRAVELLY SAND	5	X	1	6 8 10	NP	5				30	X	6	11 28 50/4"	NP	8
	860.4	Medium dense, brown, fine to medium SAND	10	X	2	8 10 15	NP	6		840.4	Medium dense, brown, medium to coarse SAND	35	X	7	3 8 6	NP	22
	855.4	Medium dense, brown SILT	15	X	3	6 10 12	NP	5		836.1	Very stiff to hard, gray CLAY LOAM	40	X	9	8 10 15	NP	13
	850.4	Dense to very dense, brown LOAM	20	X	4	5 9 13	NP	19				45	X	11	6 10 50/4"	2.95 B	10
			25	X	5	9 14 23	NP	8				50	X	13	6 18 33	5.49 B	10
														12	20 22 24		

GENERAL NOTES

Begin Drilling **06-17-2005** Complete Drilling **06-21-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **17.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-050

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 872.38 ft
 North: 1993348.89 ft
 East: 993608.25 ft
 Station: 2158+20.87
 Offset: 73.19L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)		
					14	30 34 33	2.05 B	11											
			55		15	10 15 30	8.28 B	10				80		23	9 13 19	2.84 B	10		
					16	11 31 23	4.51 B	10											
			60		17	10 16 27	6.89 B	10		787.4		85		24	6 13 19	3.28 B	13		
					18	8 18 26	4.26 B	10											
			65		19	8 14 24	3.85 B	9				90							
					20	10 14 17	2.87 B	10											
			70		21	8 13 21	2.87 B	10				95							
					22	9 15 20	2.62 B	11				100							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-17-2005	Complete Drilling	06-21-2005	While Drilling	▽	17.00 ft	
Drilling Contractor	PRECON DRILLING	Drill Rig	CME-75 ATV	At Completion of Drilling	▼	DRY	
Driller	S&J	Logger	J. Kasnick	Time After Drilling		NA	
Drilling Method	3.25-inch HSA	Checked by	N. Davis	Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-051

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 860.78 ft
 North: 1993236.23 ft
 East: 993628.29 ft
 Station: 2158+60.73
 Offset: 34.06R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	859.8	12-inch thick TOPSOIL															
	857.8	Medium dense, brown SILTY LOAM	5	X	1	5 5 7	NP	17		832.8	Very dense, brown SANDY LOAM	30	X	11	8 11 14	5.74 B	10
	855.3	Medium dense, brown SANDY LOAM	5	X	2	6 8 10	NP	12				30	X	12	18 23 22	NP	9
	852.8	Very soft, brown CLAY LOAM		X	3	6 7 8	0.25 P	18					X	13	15 25 28	NP	13
	847.8	Medium dense to dense, brown LOAM	10	X	4	4 6 11	NP	11		827.8	Very stiff to hard, brown CLAY LOAM	35	X	14	32 32 38	3.00 P	11
				X	5	7 14 20	NP	10					X	15	5 12 13	3.28 B	12
	845.3	Dense, brown, medium SAND	15	X	6	17 15 26	NP	6				40	X	16	11 20 26	3.28 B	12
				X	7	5 10 12	5.33 B	12					X	17	18 33 46	4.67 S	11
				X	8	7 11 13	4.00 P	14					X	18	15 20 27	6.81 S	10
				X	9	3 5 7	2.05 B	12					X	19	18 21 28	2.00 P	11
				X	10	7 9 12	4.51 B	11				50	X	20	12 22 32	4.51 B	11

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-10-2005** Complete Drilling **06-10-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-052

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 858.63 ft
 North: 1993378.37 ft
 East: 993642.32 ft
 Station: 2158+49.12
 Offset: 108.29L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 31 FEET--															
			5							827.6	Very stiff to hard, brown CLAY LOAM	30		1	3 9 15	3.03 B	11
			10									35		2	8 14 21	6.31 B	10
			15									40		3	10 15 15	9.02 B	10
			20									45		4	8 16 20	4.50 P	13
														5	9 12 24	5.58 B	10
														6	7 16 21	5.17 B	11
														7	7 11 15	6.23 B	11
			25									50		8	6 14 18	5.90 B	11

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-16-2005** Complete Drilling **06-16-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **28.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-052

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 858.63 ft
 North: 1993378.37 ft
 East: 993642.32 ft
 Station: 2158+49.12
 Offset: 108.29L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					9	7 10 10	4.92 B	11									
			55		10	6 12 14	2.79 B	12									
					11	9 11 16	3.28 B	12									
	799.1	Dense, brown, medium SAND	60		12	7 15 24	2.05 B	12									
	798.1	Very stiff, brown CLAY LOAM															
					13	3 17 20	2.71 B	13									
	793.6	Boring terminated at 65.00 ft	65		14	4 11 15	3.12 B	11									
			70														
			75														

GENERAL NOTES

Begin Drilling **06-16-2005** Complete Drilling **06-16-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **28.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-053

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 854.49 ft
 North: 1993232.73 ft
 East: 993691.08 ft
 Station: 2159+23.14
 Offset: 26.27R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	853.5	12-inch thick TOPSOIL --TOPSOIL-- Soft to hard, brown CLAY LOAM															
				X	1	3 7 6	2.87 B	20					X	11	7 13 19	5.74 B	10
			5	X	2	2 4 5	0.41 B	15				30	X	12	11 17 22	6.15 B	11
				X	3	2 6 7	2.46 B	14					X	13	7 13 16	3.69 B	11
			10	X	4	4 6 6	0.82 B	13				35	X	14	9 20 20	4.10 B	10
				X	5	5 7 12	2.05 B	12					X	15	5 10 11	3.69 B	11
			15	X	6	4 6 8	2.05 B	12				40	X	16	17 14 18	3.94 B	11
				X	7	4 7 10	1.23 B	11					X	17	5 10 15	3.28 S	12
			20	X	8	7 8 8	0.25 B	16				45	X	18	10 17 21	3.28 S	10
				X	9	7 8 13	2.46 B	11					X	19	10 13 16	3.28 B	11
			25	X	10	7 12 14	4.10 B	10				50	X	20	9 15 22	3.28 B	11
										804.5							

Boring terminated at 50.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-09-2005** Complete Drilling **06-09-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-054

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 848.34 ft
 North: 1993332.73 ft
 East: 993707.89 ft
 Station: 2159+21.80
 Offset: 75.11L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	846.8	18-inch dark brown LOAM --TOPSOIL--															
	845.3	Stiff, brown CLAY LOAM			1	3 6 7	1.97 B	15						11	3 8 11	2.87 B	10
	842.3	Medium dense, brown and gray SILTY LOAM	5		2	4 5 7	NP	16				30		12	3 6 12	3.28 B	10
	840.3	Medium dense, brown, medium SAND			3	5 6 8	NP	6						13	5 8 14	4.59 B	9
	840.3	Stiff to hard, brown to gray CLAY LOAM			4	3 5 9	2.46 B	12						14	5 8 11	4.02 B	10
					5	2 5 8	2.46 B	12						15	4 6 14	5.00 B	11
					6	3 5 7	2.95 B	10						16	6 11 20	3.69 B	10
					7	3 7 9	1.48 S	11						17	5 6 10	3.69 B	11
					8	4 7 11	6.40 B	11						18	5 7 11	2.38 B	12
					9	4 5 9	3.69 B	10						19	5 7 10	3.20 B	11
					10	5 7 14	2.79 B	11						20	5 6 10	3.36 B	12

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-16-2005** Complete Drilling **06-16-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-054

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 848.34 ft
 North: 1993332.73 ft
 East: 993707.89 ft
 Station: 2159+21.80
 Offset: 75.11L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	778.3				21	5 6 11	2.71 B	12									
			55		22	5 5 11	2.46 B	12									
			60		23	6 9 17	1.23 B	12									
			65		24	6 8 13	1.64 B	12									
			70		25	5 11 16	3.28 B	11									
		Boring terminated at 70.00 ft															
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-16-2005** Complete Drilling **06-16-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-055

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 848.14 ft
 North: 1993228.33 ft
 East: 993729.39 ft
 Station: 2159+61.62
 Offset: 23.74R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	847.6	6-inch thick, dark brown SILTY LOAM															
	846.9	--TOPSOIL--								821.4	Very dense, gray, fine SAND			11	8 20 44	6.64 B	11
		Medium dense, brown and black LOAM			1	4 5 6	0.50 P	23		820.1	Very dense, gray LOAM			12	22 32 38	NP	11
	845.1	Medium stiff, brown and black CLAY			2	3 6 6	1.15 S	11				30		13	7 24 25	NP	8
		Stiff to hard, brown CLAY LOAM	5											14	18 22 23	NP	7
					3	4 6 8	3.20 B	12						15	8 12 25	9.35 B	10
					4	4 12 10	2.30 S	12		812.6	Very stiff to hard, brown CLAY LOAM			16	12 19 23	5.41 B	9
			10											17	6 14 17	4.51 B	11
					5	4 11 13	3.20 B	10						18	7 8 12	2.71 B	11
					6	6 10 13	4.67 B	10		803.1	Boring terminated at 45.00 ft						
			15														
					7	3 7 14	4.67 S	11									
					8	6 11 17	5.25 B	10									
			20														
					9	7 14 19	8.04 B	10									
					10	6 12 16	7.79 B	11									
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-13-2005** Complete Drilling **06-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **34.25 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-056

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 841.82 ft
 North: 1993320.24 ft
 East: 993756.32 ft
 Station: 2159+71.68
 Offset: 71.49L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	781.8		55		14	6 8 10	2.79 B	11									
			60		15	7 7 11	2.50 P	14									
		Boring terminated at 60.00 ft															
			65														
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-16-2005** Complete Drilling **06-16-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-058

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 834.76 ft
 North: 1993314.62 ft
 East: 993806.13 ft
 Station: 2160+21.69
 Offset: 74.87L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	834.1	8-inch dark brown LOAM --TOPSOIL--															
		Stiff, brown SILTY CLAY LOAM															
	831.8	Stiff to very stiff, brown to gray CLAY LOAM															
			5	X	1	3 4 5	1.15 B	14									
			10	X	2	4 7 9	2.46 B	12									
			15	X	3	5 4 7	2.21 B	11									
			20	X	4	6 6 9	3.28 B	12									
			25	X	5	7 8 15	3.28 B	12									
				X	6	3 11 11	2.50 P	13									
				X	7	4 8 12	2.87 B	11									
				X	8												
				X	9												
				X	10												
				X	11												
				X	12												
				X	13					795.3	Dense, gray, medium SAND	40					
				X	14					794.3	Very stiff, brown CLAY LOAM						
				X	15												
				X	16												

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-15-2005** Complete Drilling **06-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-058

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 834.76 ft
 North: 1993314.62 ft
 East: 993806.13 ft
 Station: 2160+21.69
 Offset: 74.87L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	764.8		55	X	17	7 7 20	2.62 B	13									
			60	X	18	6 10 15	2.30 B	12									
			65	X	19	7 10 13	2.95 B	12									
			70	X	20	8 11 15	2.87 B	11									
		Boring terminated at 70.00 ft															
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-15-2005** Complete Drilling **06-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-059

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 831.95 ft
 North: 1993150.69 ft
 East: 993828.65 ft
 Station: 2160+73.17
 Offset: 82.38R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	831.64	64-inch black and brown SANDY LOAM --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY LOAM			1	4 6 9	2.25 P	16						11	4 8 11	3.20 B	13
			5		2	4 6 6	1.89 B	18				30		12	4 7 10	2.79 B	12
					3	4 7 14	2.50 P	18						13	4 9 11	2.05 B	12
	823.9	Medium dense to dense, brown GRAVELLY SAND	10		4	7 13 15	NP	8				35		14	7 9 10	2.38 B	13
					5	13 21 17	NP	7						15	5 9 11	2.71 B	13
	818.9	Stiff to very stiff, brown CLAY LOAM	15		6	4 7 13	1.48 B	12				40		16	4 9 12	3.44 B	12
					7	3 6 8	2.54 B	12									
			20		8	3 6 11	2.30 B	10				45		17	8 12 15	2.38 B	11
					9	3 8 10	2.46 B	12		786.9	Boring terminated at 45.00 ft						
			25		10	5 8 11	3.03 B	12				50					

GENERAL NOTES

Begin Drilling **06-14-2005** Complete Drilling **06-14-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **T. Rickey** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-060

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 830.94 ft
 North: 1993308.50 ft
 East: 993842.63 ft
 Station: 2160+58.70
 Offset: 75.38L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	830.1	10-inch dark brown LOAM --TOPSOIL--															
		--BLIND DRILLING TO 8.5 FEET--															
			5									30		8	6 9 12	2.25 P	12
														9	3 6 9	2.30 B	12
														10	6 8 10	2.79 B	11
	822.4	Very stiff, brown SILTY CLAY LOAM	10		1	2 7 12	2.95 B	12				35		11	7 8 10	3.44 B	12
	819.7	Medium dense, brown, medium SAND			2	3 9 7	NP	21						12	4 6 10	2.05 B	12
	817.9	Stiff to hard, brown CLAY LOAM			3	3 8 11	4.02 B	11				40		13	3 6 21	2.46 B	12
					4	5 7 12	4.10 B	11						14	4 7 8	2.46 B	12
					5	5 8 11	5.33 B	11				45		15	3 6 9	1.80 B	8
					6	6 10 10	4.59 B	11									
					7	5 9 9	3.61 B	12				50					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-15-2005** Complete Drilling **06-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **11.25 ft**
 At Completion of Drilling ∇ **15.80 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-060

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 830.94 ft
 North: 1993308.50 ft
 East: 993842.63 ft
 Station: 2160+58.70
 Offset: 75.38L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	775.9		55		16	8 8 8	1.15 B	12									
		Boring terminated at 55.00 ft															

GENERAL NOTES

Begin Drilling **06-15-2005** Complete Drilling **06-15-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **11.25 ft**
 At Completion of Drilling \blacktriangledown **15.80 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-061

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 820.85 ft
 North: 1993281.70 ft
 East: 993940.33 ft
 Station: 2161+59.61
 Offset: 66.49L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	819.8	12-inch thick TOPSOIL															
		Medium stiff, brown SILTY CLAY LOAM	1	X	1	5 4 5	0.82 S	17				11	X	11	4 7 17	2.05 B	13
			2	X	2	3 4 4	0.82 S	20				30	X	12	5 6 11	2.05 B	11
			3	X	3	2 2 3	0.57 B	21									
	812.8	Loose, brown SANDY LOAM	4	X	4	1 2 4	NP	19				35	X	13	2 7 10	1.48 B	12
	810.3	Stiff to hard, brown CLAY LOAM	5	X	5	5 8 10		12									
			6	X	6	2 6 7	1.64 B	13				40	X	14	7 16 15	3.28 B	11
			7	X	7	6 8 14	2.46 B	11									
			8	X	8	8 10 11	2.87 B	10				45	X	15	6 10 11	3.28 B	12
			9	X	9	3 10 10	2.05 B	12									
			10	X	10	3 7 11	2.46 B	12				50	X	16	5 10 112	2.05 B	12

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-09-2005** Complete Drilling **06-09-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-061

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 820.85 ft
 North: 1993281.70 ft
 East: 993940.33 ft
 Station: 2161+59.61
 Offset: 66.49L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	760.8		55		17	6 10 13	2.05 B	11									
			60		18	8 13 18	4.51 B	11									
		Boring terminated at 60.00 ft															
			65														
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-09-2005** Complete Drilling **06-09-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-062

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 815.14 ft
 North: 1993276.52 ft
 East: 994003.21 ft
 Station: 2162+22.40
 Offset: 72.63L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	812.1	Medium dense, brown SILTY LOAM			1	6 5 7	NP	19						11	5 11 13	1.80 B	11
	809.6	Medium stiff, brown SILTY CLAY LOAM	5		2	4 3 4	0.90 B	23				30		12	8 11 11	2.05 B	11
	804.6	Loose to medium dense, brown SANDY LOAM			3	4 3 5	NP	14		783.6	Medium dense, brown LOAM			13	4 7 11	NP	6
			10		4	5 5 6	NP	21				35		14	9 10 13	NP	10
	799.6	Medium dense, brown GRAVELLY SAND			5	9 9 9	NP	3						15	3 4 3	1.23 B	12
			15		6	17 12 18	NP	4		773.1	Stiff to very stiff, gray CLAY LOAM			14	7 14 17	1.15 B	14
		Stiff to very stiff, gray to red CLAY LOAM			7	3 4 3	1.23 B	12						15	5 8 9	2.46 B	12
			20		8	3 4 10	2.62 B	13				45		16	7 14 15	2.79 B	12
					9	5 8 9	2.46 B	12							4 6 11	2.05 B	13
			25		10	4 6 11	2.05 B	13				50					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-08-2005** Complete Drilling **06-09-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **35.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-062

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 815.14 ft
 North: 1993276.52 ft
 East: 994003.21 ft
 Station: 2162+22.40
 Offset: 72.63L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	760.1	Boring terminated at 55.00 ft	55		17	8 14 18	3.28 B	11									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-08-2005** Complete Drilling **06-09-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **35.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-063

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 808.16 ft
 North: 1993265.30 ft
 East: 994076.76 ft
 Station: 2162+96.77
 Offset: 74.75L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
797.7	797.7	Very soft to stiff, brown SILTY CLAY LOAM	0	X	1	6 6 6	1.00 P	16	797.7	797.7		0	X	11	4 8 11	2.46 B	12	
			5	X	2	5 5 5	1.23 B	24				30	X	12	6 9 12	3.69 B	12	
			10	X	3	2 3 3	0.82 B	25										
			15	X	4	1 1 1	0.33 B	31				35	X	13	3 7 11	2.46 B	12	
			20	X	5	1 1 1	NP	30										
			25	X	6	1 2 4	NP	25				40	X	14	3 8 11	2.87 B	11	
			30	X	7	12 20 22	NP	11										
			35	X	8	6 18 50/2"	NP	12				45	X	15	8 12 18	3.69 B	10	
			40	X	9	3 7 9	1.64 B	13										
			45	X	10	2 7 9	2.62 B	13				50	X	16	12 14 20	6.56 B	10	
										Boring terminated at 50.00 ft								

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-08-2005** Complete Drilling **06-08-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **16.00 ft**
 At Completion of Drilling ∇ **15.50 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-064

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 803.78 ft
 North: 1993251.91 ft
 East: 994150.49 ft
 Station: 2163+71.71
 Offset: 74.77L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Loose, dark brown SILT			1	6 4 5	NP	10						11	6 7 13	1.64 B	12
	800.8	Soft to stiff, brown SILTY CLAY LOAM			2	5 4 4	1.23 B	28						12	5 12 12	4.10 B	11
					3	3 3 3	0.74 B	26		772.3	Dense, brown GRAVELLY SAND			13	10 22 17	NP	8
					4	2 2 5	0.33 B	31						14	6 8 13	2.46 B	12
					5	18 30 30	1.00 P	26		767.3	Very stiff, brown SILTY CLAY LOAM			15	11 13 16	3.44 B	11
	790.8	Medium dense, brown GRAVELLY SAND			6	12 11 9	NP	15						16	11 14 19	3.44 B	12
					7	12 6 5	1.80 B	14						17			
	786.8	Stiff to hard, brown CLAY LOAM			8	4 5 8	2.46 B	14						18			
					9	4 12 11	1.07 B	13						19			
					10	4 7 8	4.10 B	13						20			

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-07-2005** Complete Drilling **06-08-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **14.00 ft**
 At Completion of Drilling ∇ **11.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-064

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 803.78 ft
 North: 1993251.91 ft
 East: 994150.49 ft
 Station: 2163+71.71
 Offset: 74.77L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	748.8		55		17	8 13 16	2.46 B	11									
		Boring terminated at 55.00 ft															
			60														
			65														
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-07-2005** Complete Drilling **06-08-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **14.00 ft**
 At Completion of Drilling \blacktriangledown **11.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-065

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 802.85 ft
 North: 1993238.52 ft
 East: 994224.33 ft
 Station: 2164+46.75
 Offset: 74.80L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Loose, black SILTY LOAM			1	4 3 4	NP	21						11	5 8 10	3.28 B	11
	799.8	Medium stiff to stiff, brown SILTY CLAY LOAM	5		2	3 4 6	1.64 B	24				30		12	3 6 10	2.05 B	11
					3	3 3 4	0.50 P	24		771.3	Medium dense to dense, gray LOAM						
			10		4	1 2 3	0.50 P	34				35		13	8 10 16	NP	10
	792.3	Medium dense, brown GRAVELLY SAND			5	6 10 18	NP	12									
			15		6	13 11 13	NP	12				40		14	7 13 17	NP	10
	787.3	Very stiff to hard, gray CLAY LOAM			7	6 9 13	3.28 B	12		760.8	Very stiff, gray CLAY LOAM						
			20		8	6 11 14	5.74 B	10				45		15	8 11 15	3.28 B	12
					9	6 10 15	4.10 B	11									
			25		10	4 10 13	2.46 B	11		752.8		50		16	7 12 17	3.94 B	11

Boring terminated at 50.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-07-2005** Complete Drilling **06-07-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **14.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-066

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 814.19 ft
 North: 1993403.17 ft
 East: 997287.05 ft
 Station: 2195+90.55
 Offset: 75.11R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	813.2	12-inch thick, dark brown SILTY LOAM															
		--TOPSOIL--															
		Very stiff, brown CLAY			1	3 5 6	2.05 B	25						11	19 26 34	NP	3
	811.2	Stiff, brown and gray SANDY CLAY															
	810.4	Medium dense to very dense, brown GRAVELLY SAND, with cobbles			2	3 5 16	1.00 P	26				30		12	23 21 22	NP	3
					3	7 17 13	NP	6						13	28 37 46	NP	2
					4	9 13 21	NP	5						14	21 19 21	NP	6
					5	9 10 11	NP	3									
					6	7 8 10	NP	3		777.2	Very stiff to hard, gray to brown CLAY LOAM			15	9 13 16	3.12 B	11
					7	11 13 11	NP	3									
					8	21 16 10	NP	3		770.2	Dense, gray GRAVELLY SAND			16	15 20 19	7.54 B	10
					9	7 8 22	NP	3		767.2	Very stiff to hard, brown CLAY LOAM						
					10	10 26 27	NP	2						17	7 9 13	3.77 B	13

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-29-2005** Complete Drilling **05-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&D** Logger **E. Datz** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **36.50 ft**
 At Completion of Drilling ∇ **51.80 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-067

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 813.38 ft
 North: 1993548.91 ft
 East: 997251.08 ft
 Station: 2195+90.50
 Offset: 74.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)		
[Pattern]	812.8	7-inch thick, dark brown SILTY LOAM --TOPSOIL-- Stiff, brown CLAY			1	2 3 4	1.97 B	25	[Pattern]										
	810.4	Medium dense to very dense, brown GRAVELLY SAND, with cobbles	5		2	3 9 11	NP	10					30		12	9 26 40	NP	3	
					3	8 13 14	NP	3							13	28 50/5"	NP	3	
					4	11 15 16	NP	3							14	30 20 14	NP	7	
					5	20 11 11	NP	3											
					6	6 9 12	NP	3				776.4	Very stiff to hard, brown CLAY LOAM			15	7 8 9		
					7	8 6 10	NP	2								16	4 8 12	4.26 B	11
					8	9 13 14	NP	3								17	4 8 12	4.10 B	12
					9	6 9 14	NP	3											
					10	11 11 13	NP	3								18	13 11 13	3.65 B	10

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-29-2005** Complete Drilling **04-29-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **33.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-067

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 813.38 ft
 North: 1993548.91 ft
 East: 997251.08 ft
 Station: 2195+90.50
 Offset: 74.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55		19	12 10 15	4.59 B	11									
			60		20	10 14 20	2.46 B	14									
			65		21	19 10 14	2.54 B	15									
	748.4	Boring terminated at 65.00 ft															
			70														
			75														

GENERAL NOTES

Begin Drilling **04-29-2005** Complete Drilling **04-29-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **33.00 ft**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-068

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 813.70 ft
 North: 1993419.34 ft
 East: 997357.96 ft
 Station: 2196+65.76
 Offset: 75.19R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	812.4	15-inch thick, dark brown SILTY LOAM															
		--TOPSOIL--															
		Stiff, brown CLAY			1	3 3 6	1.50 P	26						11	17 50/4"	NP	3
	810.7	Medium dense to very dense, brown GRAVELLY SAND, with cobbles			2	6 7 9	NP	8						12	28 31 36	NP	3
			5		3	13 17 18	NP	5						13	13 23 39	NP	3
			10		4	9 17 18	NP	3						14	50/4"		
			15		5	13 11 10	NP	3		778.7	Very stiff to hard, brown CLAY LOAM	35		15	6 9 11	2.46 B	11
			20		6	8 10 14	NP	4						16	8 11 13	3.85 B	11
			25		7	18 21 48	NP	4						17	6 8 9	2.71 B	11
					8	12 15 10	NP	4						18	11 15 21	5.25 B	10
					9	16 25 35	NP	3									
					10	46 24 24	NP	2		763.7		50					

Boring terminated at 50.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-29-2005** Complete Drilling **04-29-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&D** Logger **J. Kasnick** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-069

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 813.76 ft
 North: 1993561.32 ft
 East: 997326.60 ft
 Station: 70.20L
 Offset: 75.09 L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 6 FEET--															
	807.8	Medium dense to very dense, brown GRAVELLY SAND, with cobbles			1	15 24 20	NP	3						9	15 19 17	NP	3
			5		2	14 18 15	NP	4				30		10	13 11 25	NP	2
			10		3	5 7 10	NP	4						11	26 36 29	NP	2
			15		4	9 12 14	NP	3						12	30 50 29	NP	6
			20		5	7 10 13	NP	4						13	20 50/4"	NP	11
			25		6	8 9 7	NP	3		776.8	--AUGER REFUSAL-- Boring terminated at 37.00 ft						
					7	7 7 15	NP	3									
					8	11 15 22	NP	3									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-03-2005** Complete Drilling **05-03-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-070

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 812.62 ft
 North: 1993433.24 ft
 East: 997429.01 ft
 Station: 2197+40.61
 Offset: 75.14R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	811.6	12-inch thick, dark brown SILTY LOAM --TOPSOIL--															
		--BLIND DRILLING TO 18.5 FEET--	5											4	17 55 50/2"	NP	2
												30		5	30 18 22	NP	2
														6	40 50/3"	NP	4
										779.6	Very stiff to hard, brown CLAY LOAM			7	4 9 13	3.20 B	11
														8	7 10 14	5.00 B	11
														9	5 9 11	4.26 B	11
														10	8 11 15	5.33 B	10
	794.1	Dense to very dense, brown GRAVELLY SAND, with cobbles	20		1	50/5"	NP	6				45		11	9 19 21		
					2	13 19 20	NP	3						12	9 13 17	3.36 B	12
					3	20 22 27	NP	3						13	6 8 13	3.69 B	11
			25							762.6		50					

Boring terminated at 50.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-02-2005** Complete Drilling **05-02-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-071

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 814.33 ft
 North: 1993581.03 ft
 East: 997402.62 ft
 Station: 2197+40.52
 Offset: 74.98L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	813.7	7-inch thick, dark brown SILTY LOAM --TOPSOIL-- Very stiff, brown and black CLAY			1	2 2 4	2.05 B	22						11	16 17 21	NP	3	
	811.3	Medium dense to very dense, brown GRAVELLY SAND, with cobbles and interbedded clay loam lenses	5		2	11 14 10	NP	4				30		12	25 29 19	NP	3	
					3	21 11 16	NP	5						13	18 19 20	NP	3	
			10		4	26 11 13	NP	3						14	35 47 34	NP	4	
					5	6 7 6	NP	4		778.8	Stiff to hard, brown CLAY LOAM			15	5 6 8	4.67 B	11	
			15		6	5 11 15	NP	6			--A-4 (1)-- --LL=20%, PL=13%-- GRAVEL=7.8% SAND=33.9% SILT=38.2% CLAY=20.2%			16	16 17 9	1.97 B	11	
					7	7 8 11	NP	4										
			20		8	9 9 12	NP	5				45		17	5 10 12			
					9	9 12 17	NP	3						18	4 6 10	4.51 B	12	
			25		10	18 16 12	NP	4		764.3		50		19	4 7 10	2.05 B	12	

Boring terminated at 50.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-28-2005** Complete Drilling **04-29-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-072

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 811.14 ft
 North: 1993444.06 ft
 East: 997500.02 ft
 Station: 2198+14.88
 Offset: 75.76R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	810.6	7-inch thick, dark brown SILTY LOAM --TOPSOIL-- Very stiff, brown CLAY			1	4 4 6	2.05 B	25										
	808.1	Medium dense to very dense, brown and gray GRAVELLY SAND, with cobbles	5		2	1 7 11	NP	8		782.1	Very stiff to hard, brown to gray CLAY LOAM	30		11	44 50 3	NP	3	
					3	16 20 21	NP	5						12	52 43 16	4.50 P	9	
					4	14 21 19	NP	3						13	7 11 14	4.02 B	11	
			10		5	7 14 17	NP	3						14	8 13 16	3.61 B	11	
					6	4 9 10	NP	3						15	8 11 19	4.59 B	10	
			15		7	21 28 20	NP	4						16	12 15 21	3.75 P	11	
					8	15 23 26	NP	4						17	7 10 12	3.03 B	11	
			20		9	18 23 23	NP	3		766.1	Boring terminated at 45.00 ft	45						
					10	15 24 38	NP	4				50						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-26-2005** Complete Drilling **04-28-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **Y. Shiu** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-073

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 813.64 ft
 North: 1993598.36 ft
 East: 997479.02 ft
 Station: 2198+16.15
 Offset: 79.95L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	813.25	2.5-inch thick, dark brown SILTY LOAM --TOPSOIL-- --BLIND DRILLING TO 11 FEET--	0 to 11														
	802.6	Medium dense to very dense, brown to gray GRAVELLY SAND	11 to 25	X	1-6	27/33/17 6/12/10 12/16/16 5/12/16 14/24/21 12/31/41	NP	2-3		778.1	Very stiff to hard, brown CLAY LOAM	11 to 50	X	7-15	46/50/4 35/32/25 34/37/50 16/19/44 6/11/12 8/9/12 5/7/7 5/8/11 6/11/16	4.51 B 5.08 B 3.20 B 2.87 B 4.10 B	3-11
			25							763.6		50					

Boring terminated at 50.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-06-2005** Complete Drilling **05-06-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **J. Kosloski** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **33.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-074

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 809.41 ft
 North: 1993453.08 ft
 East: 997572.62 ft
 Station: 2198+90.55
 Offset: 76.03R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	808.4	12-inch thick, dark brown SILTY LOAM								782.9	Very stiff to hard, brown CLAY LOAM						
		--TOPSOIL-- --BLIND DRILLING TO 11 FEET--												7	24 15 17	NP	8
			5									30		8	6 10 12	3.94 B	11
														9	7 10 10	4.10 B	11
														10	7 11 12	4.43 B	10
	798.4	Medium dense to very dense, brown GRAVELLY SAND, with cobbles			1	7 8 10	NP	3						11	4 8 13	4.10 B	11
			15		2	8 20 45	NP	3						12	5 10 16	3.44 B	11
					3	33 46 50/4"	NP	3						13	6 8 11	3.20 B	12
			20		4	13 25 47	NP	3						14	5 8 11	4.43 B	11
					5	24 57 40	NP	2									
			25		6	21 41 50/5"	NP	3						15	5 9 16	4.25 P	11
										759.4	Boring terminated at 50.00 ft						

--A-4 (2)--
 --LL=20%, PL=12%--
 GRAVEL=6.0%
 SAND=31.5%
 SILT=40.4%
 CLAY=22.0%

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-02-2005** Complete Drilling **05-03-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-075

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 812.15 ft
 North: 1993603.22 ft
 East: 997555.89 ft
 Station: 2198+90.51
 Offset: 75.03L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	811.6	7-inch thick, dark brown SILTY LOAM															
		--TOPSOIL--															
		Very stiff, brown CLAY			1	2 3 4	2.30 B	23						11	34 32 19	NP	3
	809.2	Medium dense to very dense, brown GRAVELLY SAND, with cobbles			2	9 11 11	NP	8				30		12	13 11 16	NP	3
					3	6 16 13	NP	3						13	23 27 30	NP	3
					4	7 9 12	NP	3				35		14	44 26 13		
					5	18 24 33	NP	2						15	17 10 20	NP	
					6	6 11 10	NP	3		774.2	Very stiff to hard, brown CLAY LOAM			16	5 8 13	2.54 B	11
					7	8 15 15	NP	3									
					8	8 10 12	NP	3						17	17 22 27	3.03 B	10
					9	11 21 26	NP	3									
					10	20 39 42	NP	4		762.2		50		18	4 7 12	4.51 B	11

Boring terminated at 50.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-27-2005** Complete Drilling **04-28-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **33.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-076

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 806.63 ft
 North: 1993460.97 ft
 East: 997644.77 ft
 Station: 2199+65.59
 Offset: 74.97R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	806.0	7-inch thick, dark brown SILTY LOAM --TOPSOIL-- Very stiff, brown CLAY LOAM			1	3 4 6	2.05 B	21						11	10 14 16	3.50 P		
	803.6	Medium dense to very dense, brown GRAVELLY SAND, with cobbles	5		2	4 10 21	NP	8				30		12	5 8 13	4.35 B	11	
					3	33 30 26	NP	3						13	6 9 14	4.26 B	10	
			10		4	9 14 14	NP	4				35		14	5 8 13	4.18 B	11	
					5	5 10 13	NP	4						15	7 12 15	3.77 B	10	
			15		6	25 29 33	NP	4				40		16	7 11 14	3.85 B	11	
	791.1	--No Recovery-Hard drilling--			7	50/3"								17	9 9 13	3.36 B	10	
					8	40 50/4"						45		18	7 11 13	4.51 B	10	
	786.1	Very stiff to hard, brown to gray CLAY LOAM, with interbedded sand lenses			9	7 18 17	2.46 B	12										
					10	5 9 15	4.26 B	10				50		19	5 9 12			

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-25-2005** Complete Drilling **04-25-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&B** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-076

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 806.63 ft
 North: 1993460.97 ft
 East: 997644.77 ft
 Station: 2199+65.59
 Offset: 74.97R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	734.1																
					20	6 12 14	3.03 B	11									
			55		21	7 11 14	3.85 B	13									
			60		22	4 9 15	3.28 B	12									
			65		23	4 10 12	3.44 B	11									
			70		24	7 13 17											
					25	8 13 16	2.46 B	14									
		Boring terminated at 72.50 ft															
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-25-2005** Complete Drilling **04-25-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&B** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-077

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 809.85 ft
 North: 1993610.45 ft
 East: 997633.05 ft
 Station: 2199+65.55
 Offset: 74.96L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	809.3	6-inch thick, dark brown SILTY LOAM --TOPSOIL--	0														
		--BLIND DRILLING TO 11 FEET--	11														
	798.9	Medium dense to very dense, brown GRAVELLY SAND, with cobbles	11	X	1	22 32 40	NP	5		774.4	Stiff to hard, gray CLAY LOAM with interbedded sand lenses	11	X	11	6 12 18	2.21 B	12
			15	X	2	12 19 20	NP	3				40	X	12	12 16 19	3.00 P	12
			20	X	3	15 20 23	NP	4				45	X	13	6 8 12	1.72 B	12
			25	X	4	14 18 35	NP	3				50	X	14	7 10 13	2.38 B	10
			30	X	5	20 24 40	NP	5				55	X	15	8 12 18	4.02 B	11
			35	X	6	48 50	NP	6				60	X	16			
			40	X	7							65	X	17			
			45	X	8							70	X	18			
			50	X	9							75	X	19			
			55	X	10							80	X	20			
			60	X	11							85	X	21			
			65	X	12							90	X	22			
			70	X	13							95	X	23			
			75	X	14							100	X	24			
			80	X	15							105	X	25			
			85	X	16							110	X	26			
			90	X	17							115	X	27			
			95	X	18							120	X	28			
			100	X	19							125	X	29			
			105	X	20							130	X	30			
			110	X	21							135	X	31			
			115	X	22							140	X	32			
			120	X	23							145	X	33			
			125	X	24							150	X	34			
			130	X	25							155	X	35			
			135	X	26							160	X	36			
			140	X	27							165	X	37			
			145	X	28							170	X	38			
			150	X	29							175	X	39			
			155	X	30							180	X	40			
			160	X	31							185	X	41			
			165	X	32							190	X	42			
			170	X	33							195	X	43			
			175	X	34							200	X	44			
			180	X	35							205	X	45			
			185	X	36							210	X	46			
			190	X	37							215	X	47			
			195	X	38							220	X	48			
			200	X	39							225	X	49			
			205	X	40							230	X	50			

Boring terminated at 50.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-06-2005** Complete Drilling **05-06-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&B** Logger **J. Kosloski** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **31.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-078

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 803.56 ft
 North: 1993464.93 ft
 East: 997717.11 ft
 Station: 2200+40.50
 Offset: 75.47R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	802.8	9-inch thick, dark brown SILTY LOAM --TOPSOIL--															
		--BLIND DRILLING TO 8.5 FEET--															
	795.1	Medium dense to dense, brown GRAVELLY SAND, with cobbles	10		1	14 17 13	NP	3				30		8	6 9 11	4.02 B	11
					2	8 8 32	NP	5						9	8 10 12	2.54 B	12
	789.3	Very stiff to hard, brown to gray CLAY LOAM	15		3	27 29 14	4.50 P	11						10	4 10 20	2.05 B	11
					4	4 8 11	2.30 B	12						11	5 10 14	4.25 P	11
					5	5 9 10	3.28 B	10						12	7 12 14	3.44 B	10
					6	5 8 13	2.87 B	11						13	7 10 14	3.20 B	10
					7	6 9 10	3.69 B	13						14	8 14 17	4.10 B	10
														15	11 15 18	NA	11

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-03-2005** Complete Drilling **05-03-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **24.75 ft**
 At Completion of Drilling ∇ **32.50 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.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-078

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 803.56 ft
 North: 1993464.93 ft
 East: 997717.11 ft
 Station: 2200+40.50
 Offset: 75.47R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	751.1	Boring terminated at 52.50 ft	55		16	7 11 10	4.18 B	11									

GENERAL NOTES

Begin Drilling **05-03-2005** Complete Drilling **05-03-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **24.75 ft**
 At Completion of Drilling \blacktriangledown **32.50 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-079

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 806.53 ft
 North: 1993605.29 ft
 East: 997710.30 ft
 Station: 2200+40.06
 Offset: 65.05L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	805.9	7-inch thick, dark brown SILTY LOAM --TOPSOIL-- Medium stiff, brown CLAY LOAM			1	4 4 3	0.74 B	22		778.5	Very stiff to hard, brown CLAY LOAM			11	18 59 32	NP	6	
	803.5	Medium dense to very dense, brown GRAVELLY SAND, with cobbles	5		2	6 6 11	NP	7				30		12	7 11 16	6.31 B	10	
					3	11 15 17	NP	5						13	3 5 8	3.12 B	11	
			10		4	10 12 13	NP	4				35		14	4 7 10	2.62 B	12	
					5	16 20 36	NP	6						15	4 6 13	4.92 B	10	
			15		6	3 25 36						40		16	6 9 14	3.69 B	10	
					7	21 12 9	NP	4										
			20		8	10 16 11	NP	4				45		17	9 12 12			
					9	23 25 50	NP	4						18	9 12 17			
			25		10	20 28 50/3"	NP	4				50		19	4 8 10	3.03 B	11	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-26-2005** Complete Drilling **04-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-079

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 806.53 ft
 North: 1993605.29 ft
 East: 997710.30 ft
 Station: 2200+40.06
 Offset: 65.05L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	746.5		55	○	20	6 9 16											
				⊗	21	10 11 14	4.02 B	12									
				⊗	22	5 10 12	3.03 B	13									
		Boring terminated at 60.00 ft	60														
			65														
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-26-2005** Complete Drilling **04-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&D** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-080

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 799.62 ft
 North: 1993466.99 ft
 East: 997789.11 ft
 Station: 2201+14.99
 Offset: 75.50R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 8.5 FEET--															
	791.1	Medium dense to very dense, brown GRAVELLY SAND	10	X	1	8 21 12	NP	5				30	X	8	6 8 15	1.64 B	10
				X	2	10 14 13	NP	4				30	X	9	6 7 10	2.62 B	12
				X	3	10 50 20	NP	3					X	10	7 12 15	1.50 P	12
	784.1	Stiff to very stiff, brown to gray CLAY LOAM, with interbedded silt and sand lenses	15	X	4	5 10 12	2.87 B	12				35	X	11	7 13 16	3.28 B	11
				X	5	5 8 10	2.46 B	12				40	X	12	5 10 13	2.64 B	11
				X	6	7 13 12	1.56 B	20				45	X	13	6 10 13	3.36 B	12
		--A-4 (2)-- --LL=20% PL=12%-- GRAVEL=3.3% SAND=35.1% SILT=40.6% CLAY=20.9%		X	7	5 9 13	2.21 B	12				50	○	15	9 14 17		

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-21-2005** Complete Drilling **04-25-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&L** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **20.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-080

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 799.62 ft
 North: 1993466.99 ft
 East: 997789.11 ft
 Station: 2201+14.99
 Offset: 75.50R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	739.6																
					16	11 14 15	3.85 B	11									
			55		17	7 10 14	3.28 B	10									
			60		18	5 11 14	3.20 B	12									
		Boring terminated at 60.00 ft															
			65														
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-21-2005** Complete Drilling **04-25-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&L** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **20.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-081

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 803.63 ft
 North: 1993622.48 ft
 East: 997787.14 ft
 Station: 2201+15.00
 Offset: 79.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	802.6	12-inch thick, dark brown SILTY LOAM															
		--TOPSOIL--															
		Stiff, brown CLAY LOAM			1	3 4 11	1.00 P	21						11	5 8 10	2.95 B	10
	800.6	Medium dense to very dense, brown GRAVELLY SAND			2	9 16 15	NP	4				30		12	6 8 11	3.28 B	11
			5		3	10 12 13	NP	5						13	6 22 26	3.61 B	11
			10		4	8 11 10	NP	5				35		14	7 14 14	4.67 B	11
					5	40 39 26	NP	4						15	10 12 15	4.25 P	13
			15		6	28 29 23	NP	3				40		16	29 18 15	NP	
					7	12 13 16	NP	3									
	785.6	Medium stiff to hard, brown to gray CLAY LOAM, with interbedded gravel and loam lenses			8	5 9 14	2.13 B	12				45		17	10 13 13	2.62 B	12
			20		9	5 10 10	2.54 B	11									
					10	5 9 15	2.38 B	11				50		18	6 8 11	1.64 B	11

GENERAL NOTES

Begin Drilling **05-06-2005** Complete Drilling **05-06-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **M. Kothawala** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **40.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-081

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 803.63 ft
 North: 1993622.48 ft
 East: 997787.14 ft
 Station: 2201+15.00
 Offset: 79.99L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	743.6		55	X	19	5 5 12	0.90 B	13									
			60	X	20	7 11 12	2.21 B	12									
		Boring terminated at 60.00 ft															
			65														
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-06-2005** Complete Drilling **05-06-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **M. Kothawala** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **40.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-082

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 795.58 ft
 North: 1993467.99 ft
 East: 997863.61 ft
 Station: 2201+90.01
 Offset: 75.00R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	795.16	16-inch thick, dark brown SILTY LOAM --TOPSOIL-- Stiff, brown CLAY			1	3 4 6	1.00 P	20						11	5 8 9	2.46 B	11	
	792.6	Medium dense to very dense, brown GRAVELLY SAND	5		2	13 12 13	NP	9				30		12	5 7 12	2.54 B	11	
					3	20 14 36	NP	5						13	7 10 10	3.61 B	11	
			10		4	9 10 13	NP	4				35		14	8 9 11	3.03 B	10	
					5	9 14 22	NP	4						15	6 10 10	3.03 B	11	
			15		6	24 31 42	NP	5				40		16	7 12 14	4.02 B	11	
					7	25 37 38	NP	4										
			20		8	15 27 26	NP	6				45		17	4 8 13	2.46 B	12	
	775.1	Very stiff to hard, brown CLAY LOAM, with interbedded sand lenses			9	6 7 8	2.71 B	11										
					10	5 6 8	2.46 B	12				50		18	6 11 16	3.12 B	13	

Boring terminated at 50.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-04-2005** Complete Drilling **05-04-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **19.50 ft**
 At Completion of Drilling ∇ **12.50 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-083

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 799.18 ft
 North: 1993617.10 ft
 East: 997863.56 ft
 Station: 2201+90.85
 Offset: 74.10L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	798.6	7-inch thick, dark brown SILTY LOAM --TOPSOIL--															
		--BLIND DRILLING TO 6 FEET--	5														
	793.2	Medium dense to dense, brown GRAVELLY SAND, with cobbles			1	9 11 13	NP	4		767.2	Medium dense, gray, coarse SAND			9	4 5 8	2.21 B	12
			10		2	11 12 12	NP	3		766.2	Medium stiff to hard, brown CLAY LOAM			10	2 4 10	2.62 B	10
			15		3	6 9 12	NP	3						11	4 9 11	NP	11
			20		4	13 14 12	NP	4						12	9 8 13	3.20 B	11
		--@16'2" - 4-inch thick, very stiff (qu=2.05/B) brown CLAY LOAM lens	25		5	5 15 16	NP	4						13	8 10 12	1.75 P	13
	781.2	Stiff to hard, brown CLAY LOAM			6	16 12 9	4.35 B	11						14	2 6 10	0.82 B	16
			20		7	4 7 8	2.38 B	10						15	5 10 10	2.87 B	9
			25		8	5 7 10	1.97 B	12						16	5 8 13	4.35 B	12

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-21-2005** Complete Drilling **04-21-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **Y. Shiu** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **30.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-083

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 799.18 ft
 North: 1993617.10 ft
 East: 997863.56 ft
 Station: 2201+90.85
 Offset: 74.10L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	744.2		55		17	8 10 17	3.85 B	12									
		Boring terminated at 55.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-21-2005** Complete Drilling **04-21-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **Y. Shiu** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **30.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-084

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 790.87 ft
 North: 1993468.46 ft
 East: 997938.72 ft
 Station: 2202+65.11
 Offset: 74.98R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	790.3	7-inch thick, dark brown SILTY LOAM --TOPSOIL--															
		Medium stiff to stiff, brown CLAY LOAM			1	5 5 5	1.50 P	20						11	6 11 13	3.28 B	11
			5		2	1 3 3	0.82 B	23				30		12	7 11 11	3.03 B	9
	785.4	Dense to very dense, brown GRAVELLY SAND, with cobbles			3	8 15 19	NP	6						13	4 9 12	3.94 B	10
			10		4	15 28 32	NP	3				35		14	5 9 15	2.46 B	11
					5	40 50/3	NP	3									
			15		6	28 25 33	NP	3				40		15	11 14 16		
					7	24 50 32	NP	5						16	7 8 12	2.46 B	12
					8	22 28 38	NP	9		748.4	Boring terminated at 42.50 ft						
			20									45					
	770.4	Very stiff to hard, brown CLAY LOAM			9	5 9 13	4.92 B	12									
					10	5 10 11	3.12 B	10				50					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-21-2005** Complete Drilling **04-21-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&L** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **18.50 ft**
 At Completion of Drilling ∇ **14.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-085

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 792.98 ft
 North: 1993618.59 ft
 East: 997938.42 ft
 Station: 2202+65.76
 Offset: 75.00L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
		--BLIND DRILLING TO 3.5 FEET--																
	789.5	Medium dense to very dense, brown GRAVELLY SAND	5	X	1	4 8 6	NP	5			--A-4 (0)-- --LL=18% PL=12%-- GRAVEL=11.5% SAND=37.5% SILT=34.6% CLAY=16.4%	10	X	10	8 19 11	3.28 B	12	
			5	X	2	9 8 9	NP	4				30	X	11	3 7 11	2.38 B	12	
			10	X	3	4 10 12	NP	3				35	X	12	6 10 11	2.30 B	11	
				X	4	11 17 18	NP	4					X	13	4 7 11	2.87 B	10	
			15	X	5	18 47 27	NP	6				40	X	14	6 9 11	3.36 B	11	
				X	6	24 42 31	NP	3					X	15	9 16 21	1.07 B	14	
	774.0	Stiff to very stiff, brown to gray CLAY LOAM to LOAM, with interbedded sand lenses	20	X	7	22 11 9	3.28 B	11				45	X	16	5 9 13	2.87 B	12	
				X	8	3 7 10	3.20 B	11					X	17				
			25	X	9	7 8 10	3.77 B	11				50	X	18				
										743.0								

Boring terminated at 50.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-05-2005** Complete Drilling **05-05-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-086

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 786.99 ft
 North: 1993468.85 ft
 East: 998013.55 ft
 Station: 2203+39.94
 Offset: 75.04R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	786.4	6-inch thick, dark brown SILTY LOAM															
	785.5	--TOPSOIL--															
		Stiff, brown CLAY			1	4 4 5	1.56 B	23						11	6 10 12	2.13 B	11
		Very soft, brown SILTY CLAY LOAM			2	3 3 3	< 0.25 P	16				30		12	6 12 12	3.12 B	10
	781.5	Medium dense to very dense, brown and gray GRAVELLY SAND, with cobbles			3	5 10 11	NP	5									
					4	15 28 20	NP	3				35		13	5 13 11	3.12 B	12
					5	37 50/4"	NP	4									
					6	12 50/2"	NP	8				40		14	8 11 15	3.20 B	11
	772.0	Stiff to hard, brown CLAY LOAM, with interbedded silt and sand lenses			7	4 6 9	4.02 B	11									
					8	4 6 7	1.64 B	12				45		15	9 14 18	4.51 B	10
					9	6 6 12	2.30 B	11									
					10	6 7 11	2.30 B	11				50		16	7 11 17	2.46 B	11
										737.0							

Boring terminated at 50.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-04-2005** Complete Drilling **05-05-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-087

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 787.41 ft
 North: 1993618.93 ft
 East: 998013.49 ft
 Station: 2203+40.76
 Offset: 75.00L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	786.8	7-inch thick, dark brown SILTY LOAM															
		--TOPSOIL--															
		Medium stiff, brown CLAY LOAM			1	2 2 4	0.82 B	17						11	4 8 9	2.38 B	11
	784.4	Medium stiff, brown SANDY CLAY			2	2 6 12	0.50 P	18				30		12	4 9 13	1.39 B	11
	781.9	Medium dense to very dense, brown and gray GRAVELLY SAND, with cobbles			3	10 8 8	NP	3									
					4	13 24 17	NP	2				35		13	6 11 11	0.90 B	11
					5	18 19 18	NP	2									
		--@13'0"-18'0" - approximately 6-inch thick boulders--			6	23 28 27	NP	5				40		14	8 12 17	2.50 P	8
					7	19 24 13	NP	11									
	769.4	Medium stiff to very stiff, brown CLAY LOAM			8	3 6 10	2.46 B	11				45		15	37 47 50	1.48 B	11
					9	5 5 9	2.71 B	10									
					10	3 5 8	2.46 B	11				50		16	34 29 13	1.07 B	14

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-20-2005** Complete Drilling **04-21-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **Y. Shiu** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-087

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Datum: NGVD
 Elevation: 787.41 ft
 North: 1993618.93 ft
 East: 998013.49 ft
 Station: 2203+40.76
 Offset: 75.00L

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	727.4		55		17	6 8 9	2.79 B	12									
			60		18	16 9 13	3.44 B	13									
		Boring terminated at 60.00 ft															
			65														
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-20-2005** Complete Drilling **04-21-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **Y. Shiu** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-088

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 783.18 ft
 North: 1993469.43 ft
 East: 998088.62 ft
 Station: 2204+15.02
 Offset: 74.92R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	782.6	7-inch thick, dark brown SILTY LOAM --TOPSOIL-- Stiff, brown CLAY LOAM			1	2 4 6	1.50 P	19						11	6 10 11	3.28 B	11
	780.2	Medium dense, brown and black SANDY LOAM	5		2	6 6 9	NP	8				30		12	5 7 8	0.74 B	13
	777.7	Medium dense to dense, brown GRAVELLY SAND, with cobbles			3	8 10 14	NP	4									
			10		4	6 18 25	NP	3				35		13	4 8 10	3.12 B	11
	772.7	Medium stiff to hard, brown to gray, CLAY LOAM, with gravel and interbedded silt and sand lenses			5	4 7 9	1.48 B	12									
			15		6	5 3 7	2.46 B	12				40		14	5 7 9	3.12 B	11
					7	5 7 8	2.62 B	11									
			20		8	5 6 8	2.38 B	11				45		15	6 11 12	2.00 P	12
					9	3 10 11	4.02 B	10									
			25		10	5 7 9	2.71 B	12				50		16	3 6 20	2.21 B	13

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-20-2005** Complete Drilling **04-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&L** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **46.20 ft**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-088

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 783.18 ft
 North: 1993469.43 ft
 East: 998088.62 ft
 Station: 2204+15.02
 Offset: 74.92R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	718.2		55		17	9 13 12	2.46 B	12									
			60		18	6 13 16	3.85 B	13									
			65		19	5 6 11	2.00 P	13									
		Boring terminated at 65.00 ft															
			70														
			75														

GENERAL NOTES

Begin Drilling **04-20-2005** Complete Drilling **04-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&L** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **46.20 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-089

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 781.35 ft
 North: 1993619.35 ft
 East: 998088.44 ft
 Station: 2204+15.74
 Offset: 75.00L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	780.8	7-inch thick, dark brown SILTY LOAM															
		--TOPSOIL--															
		Medium stiff, brown CLAY LOAM			1	2 3 5	0.82 B	18						11	4 4 7	1.56 B	11
	778.4	Medium dense to dense, brown and gray GRAVELLY SAND, with cobbles			2	4 5 5	NP	7				30		12	3 5 5	1.07 B	13
			5														
					3	7 17 11	NP	6									
					4	7 11 13	NP	4				35		13	3 5 8	2.21 B	11
			10														
					5	12 10 30	NP	2									
	768.4	Stiff to very stiff, gray CLAY LOAM, with interbedded sand lenses			6	4 5 6	1.80 B	12						14	4 5 8	2.05 B	12
			15														
					7	4 4 6	3.03 B	12									
					8	4 6 7	1.50 P	12						15	3 7 10	2.79 B	12
			20														
					9	3 5 7	2.71 B	11									
					10	4 7 8	1.25 P	11						16	4 7 9	1.64 B	12
			25														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-19-2005** Complete Drilling **04-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **Y. Shiu** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **52.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-089

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 781.35 ft
 North: 1993619.35 ft
 East: 998088.44 ft
 Station: 2204+15.74
 Offset: 75.00L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	729.4	Medium dense, gray, medium, SAND															
	727.6	Stiff, gray CLAY LOAM			17	5 9 11	1.89 B	11									
	726.4	Boring terminated at 55.00 ft	55														
			60														
			65														
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-19-2005** Complete Drilling **04-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **Y. Shiu** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **52.00 ft**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-090

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 778.75 ft
 North: 1993468.91 ft
 East: 998162.70 ft
 Station: 2204+89.09
 Offset: 75.87R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	778.26	6-inch thick, very stiff, brown CLAY LOAM															
		--TOPSOIL--															
		Medium dense, brown GRAVELLY SAND, with cobbles			1	4 8 7	NP	13						11	5 7 10	2.62 B	11
			5		2	9 11 9	NP	11				30		12	7 9 11	1.15 B	11
					3	5 7 6	NP	4						13	5 8 9	2.21 B	12
			10		4	10 12 12	NP	4						14	6 8 10	3.36 B	12
	768.2	Stiff to hard, brown to gray CLAY LOAM			5	16 11 10	1.39 B	13									
			15		6	3 6 8	3.28 B	11				40		15	6 8 14	4.35 B	12
					7	4 7 9	1.80 B	11									
			20		8	5 8 10	2.62 B	11				45		16	7 10 12	3.28 B	11
					9	5 9 11	3.20 B	11									
			25		10	5 9 12	3.28 B	11				50		17	7 9 14	1.89 B	12

GENERAL NOTES

Begin Drilling **04-19-2005** Complete Drilling **04-19-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **Y. Shiu** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-090

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 778.75 ft
 North: 1993468.91 ft
 East: 998162.70 ft
 Station: 2204+89.09
 Offset: 75.87R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55	X	18	8 12 12	2.46 B	12									
			60	X	19	9 10 11	3.20 B	13									
		--@64'0" - 2-inch thick organic (root) lens--	65	X	20	6 9 10	2.13 B	14									
	708.7		70	X	21	5 9 12	1.80 B	14									
		Boring terminated at 70.00 ft															
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-19-2005** Complete Drilling **04-19-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **Y. Shiu** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-091

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 773.85 ft
 North: 1993618.28 ft
 East: 998163.97 ft
 Station: 2204+91.26
 Offset: 73.47L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	773.3	7-inch thick, black SILTY LOAM --TOPSOIL--															
		Loose, black and brown LOAM, gravelly			1	2 3 5	NP	25						11	4 7 9	2.25 P	12
	770.9	Medium dense, brown GRAVELLY SAND			2	2 8 6	NP	7				30		12	2 6 9	2.46 B	13
			5		3	6 11 7	NP	6									
	765.9	Stiff to very stiff, brown and gray CLAY LOAM			4	4 7 10		2.46 B	12			35		13	4 7 9	1.23 B	13
			10		5	3 7 9		3.77 B	12								
					6	3 5 8		1.72 B	12			40		14	4 8 9	2.62 B	12
					7	3 6 7		1.80 B	12								
					8	5 9 11		1.50 P	11			45		15	3 5 8	2.79 B	13
					9	3 5 7		1.25 P	10								
					10	3 5 9		2.21 B	12			50		16	5 9 13	1.00 P	16

GENERAL NOTES

Begin Drilling **05-09-2005** Complete Drilling **05-10-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **43.50 ft**
 At Completion of Drilling ∇ **44.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-091

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 773.85 ft
 North: 1993618.28 ft
 East: 998163.97 ft
 Station: 2204+91.26
 Offset: 73.47L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	703.9		55	X	17	6 11 15	2.62 B	13									
			60	X	18	5 9 12	1.80 B	13									
			65	X	19	3 6 9	1.23 B	12									
			70	X	20	6 9 10	2.71 B	12									
		Boring terminated at 70.00 ft															
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-09-2005** Complete Drilling **05-10-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **43.50 ft**
 At Completion of Drilling \blacktriangledown **44.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-092

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 771.32 ft
 North: 1993515.22 ft
 East: 998239.46 ft
 Station: 2205+66.13
 Offset: 30.03R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	770.8	6-inch thick, black SILTY CLAY LOAM --TOPSOIL-- Stiff, brown and black CLAY			1	3 6 8	1.50 P	24						11	4 9 10	3.61 B	12
	767.1	Loose to medium dense, brown GRAVELLY SAND, with cobbles	5		2	9 10 8	---					30		12	4 4 8	1.23 B	12
					3	4 4 5	NP	6									
					4	3 6 7	NP	6				35		13	4 8 11	1.64 B	12
	760.8	Stiff to very stiff, brown and gray CLAY LOAM			5	5 7 8	3.28 B	12									
					6	3 5 7	1.48 B	12				40		14	3 5 7	2.71 B	13
	754.1	Medium dense, brown, fine SAND			7	3 6 9	2.21 B	12		729.3	Stiff, gray SANDY CLAY						
	753.3	Stiff to very stiff, gray CLAY LOAM			8	8 6 7	2.25 P	13				45		15	3 8 7	1.00 P	9
					9	3 7 8	3.28 B	12		724.3	Medium stiff to very stiff, gray CLAY LOAM						
					10	5 8 10	3.03 B	13				50		16	8 10 12	2.62 B	14

GENERAL NOTES

Begin Drilling **04-19-2005** Complete Drilling **04-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&L** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **17.25 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-092

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 771.32 ft
 North: 1993515.22 ft
 East: 998239.46 ft
 Station: 2205+66.13
 Offset: 30.03R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55	X	17	4 7 9	0.82 B	14				80	X	22	10 12 23	2.30 B	14
			60	X	18	5 7 10	1.23 B	15				85	X	23	7 9 14	2.38 B	14
			65	X	19	5 8 12	1.56 B	14		681.3		90	X	24	7 10 12	1.80 B	13
			70	X	20	7 9 10	1.56 B	15				95					
			75	X	21	6 10 12	1.89 B	14				100					
										Boring terminated at 90.00 ft							

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-19-2005** Complete Drilling **04-20-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&L** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **17.25 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-093

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 768.78 ft
 North: 1993575.25 ft
 East: 998238.61 ft
 Station: 2205+65.65
 Offset: 30.00L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	767.6	14-inch thick, medium dense, black LOAM															
		--TOPSOIL--															
		Medium dense, brown GRAVELLY SAND			1	5 8 8	NP	28						11	4 6 8	1.64 B	12
			5		2	5 5 6	NP	4				30		12	4 7 9	1.72 B	12
					3	5 9 8	NP	2									
			10		4	2 7 13	NP	5				35		13	5 5 10	1.39 B	13
	758.3	Medium stiff to very stiff, gray CLAY LOAM			5	3 4 7	1.56 B	13									
			15		6	4 6 8	0.90 B	11				40		14	3 4 7	1.39 B	13
					7	2 4 6	1.39 B	13									
			20		8	3 4 7	0.90 B	11				45		15	5 7 9	2.46 B	13
					9	4 5 11	1.56 B	12									
			25		10	5 6 12	1.39 B	13				50		16	5 8 12	1.64 B	13

GENERAL NOTES

Begin Drilling **05-10-2005** Complete Drilling **05-10-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kosloski** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **61.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-093

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 768.78 ft
 North: 1993575.25 ft
 East: 998238.61 ft
 Station: 2205+65.65
 Offset: 30.00L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55	X	17	5 10 12	1.56 B	13		688.8		80	X	22	8 13 17	1.64 B	14
			60	X	18	5 8 12	1.80 B	14				85					
		--@ 60.5' to 63.0' - Possible SAND layer															
			65	X	19	5 9 14	0.57 B	15				90					
			70	X	20	5 8 11	2.00 P	15				95					
			75	X	21	6 11 14	1.56 B	14				100					

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	05-10-2005	Complete Drilling	05-10-2005	While Drilling	▽	61.50 ft	
Drilling Contractor	PRECON DRILLING	Drill Rig	CME-75 ATV	At Completion of Drilling	▼	DRY	
Driller	K&J	Logger	J. Kosloski	Time After Drilling		NA	
Drilling Method	3.25-inch HSA	Checked by	J. Kasnick	Depth to Water	▼	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-094

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 752.64 ft
 North: 1993516.01 ft
 East: 998358.59 ft
 Station: 2206+85.26
 Offset: 29.96R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	751.4	14-inch thick, black SILTY CLAY LOAM															
		--TOPSOIL--															
		Medium dense, brown GRAVELLY SANDY LOAM			1	9 13 19	NP	8						11	4 4 7	1.39 B	13
	748.9	Medium stiff to very stiff, brown to gray CLAY LOAM with interbedded sand lenses	5		2	13 11 10	2.00 P	12				30		12	3 5 8	1.07 B	14
					3	5 5 12	2.00 P	12									
			10		4	5 6 11	---					35		13	5 7 9	2.54 B	14
					5	2 5 7	2.21 B	14									
			15		6	2 3 4	0.98 B	14				40		14	2 5 8	0.74 B	15
					7	2 3 4	0.57 B	14									
			20		8	2 3 3	0.57 B	14				45		15	4 7 9	1.48 B	14
					9	1 3 4	0.82 B	14									
			25		10	4 4 5	1.56 B	13				50		16	3 6 10	2.30 B	14

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-13-2005** Complete Drilling **05-16-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **67.00 ft**
 At Completion of Drilling ∇ **11.60 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-094

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 752.64 ft
 North: 1993516.01 ft
 East: 998358.59 ft
 Station: 2206+85.26
 Offset: 29.96R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55	X	17	4 7 10	1.64 B	14		675.6	Very dense, brown GRAVELLY SAND	80	X	22	22 40 60	NP	11
			60	X	18	8 9 13	2.05 B	13		669.1	Boring terminated at 83.50 ft						
			65	X	19	7 9 15	1.97 B	13									
			70	X	20	6 10 14	1.56 B	11									
			75	X	21	11 16 20	2.62 B	13									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-13-2005** Complete Drilling **05-16-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **67.00 ft**
 At Completion of Drilling ∇ **11.60 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.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-095

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 749.36 ft
 North: 1993576.04 ft
 East: 998358.63 ft
 Station: 2206+85.66
 Offset: 30.06L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	747.9	18-inch thick, medium stiff, black SILTY CLAY LOAM --TOPSOIL--			1	4 5 7	2.25 P	13						11	3 6 7	1.48 B	13	
		Medium stiff to hard, brown to gray CLAY LOAM			2	5 8 12	2.46 B	12			--A-4 (4)-- --LL=21%, PL=11%-- GRAVEL=6.6% ³⁰ SAND=24.1% SILT=42.0% CLAY=27.2%			12	4 5 7	0.82 B	12	
					3	4 7 13	1.97 B	13										
					4	5 10 11	4.20 B	11							13	4 6 5	1.15 B	13
					5	4 6 10	1.97 B	13										
					6	4 4 8	1.07 B	13							14	3 6 9	2.05 B	13
					7	2 3 6	1.31 B	14										
					8	3 3 5	1.00 P	15							15	3 6 7	1.39 B	15
					9	3 4 3	0.66 B	14										
					10	2 4 8	1.39 B	13							16	5 8 12	1.00 P	14

GENERAL NOTES

Begin Drilling **05-12-2005** Complete Drilling **05-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-095

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 749.36 ft
 North: 1993576.04 ft
 East: 998358.63 ft
 Station: 2206+85.66
 Offset: 30.06L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55	X	17	5 7 10	2.21 B	14		670.1	Very stiff to hard, gray CLAY LOAM, with interbedded sand lenses	80	X	22	11 22 21	5.08 B	11
			60	X	18	6 7 12	1.97 B	14				85	X	23	6 15 23	3.20 B	12
			65	X	19	8 9 13	2.05 B	14		659.4	Boring terminated at 90.00 ft	90	X	24	12 16 23	2.50 P	13
			70	X	20	8 13 16	1.97 B	13				95					
	677.9	Very dense, gray SANDY LOAM to LOAM															
			75	X	21	9 39 49	NP	12				100					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-12-2005** Complete Drilling **05-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-096

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 726.29 ft
 North: 1993536.94 ft
 East: 998549.60 ft
 Station: 2208+76.4
 Offset: 10.17R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Soft to stiff, black and brown SILTY CLAY LOAM --TOPSOIL--			1	2 4 5	0.50 P	34						11	6 8 12	3.77 B	14
	722.3	Stiff, brown and gray CLAY	5		2	2 5 6	1.23 B	28				30		12	7 12 13	1.75 P	23
	720.8	Medium dense, brown GRAVELLY SAND			3	8 6 8	NP										
	718.3	Stiff to very stiff, brown to gray CLAY LOAM	10		4	4 4 7	1.07 B	13				35		13	7 12 15	1.56 B	14
					5	5 7 10	2.50 P	12									
					6	9 11 10	---	12				40		14	6 9 13	2.62 B	14
	710.8	Very dense, gray GRAVELLY SAND			7	21 30 36	NP	12									
	708.3	Stiff to hard, gray CLAY LOAM to CLAY	20		8	7 11 14	3.85 B	11				45		15	17 12 18	1.97 B	14
					9	8 10 18	4.59 B	12									
					10	6 11 13	4.18 B	13				50		16	8 9 15	2.05 B	15

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-16-2005** Complete Drilling **05-17-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **T. Rickey** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **13.00 ft**
 At Completion of Drilling ∇ **41.00 ft**
 Time After Drilling **24 hrs hours**
 Depth to Water ∇ **12.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-096

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 726.29 ft
 North: 1993536.94 ft
 East: 998549.60 ft
 Station: 2208+76.4
 Offset: 10.17R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55		17	8 13 19	2.38 B	13									
		--A-6 (5)-- --LL=23%, PL=11%-- GRAVEL=5.3% SAND=23.4% SILT=41.1% CLAY=30.2%			18	7 15 18	2.62 B	13									
			65		19	7 17 50	2.21 B	14									
	659.8	Medium dense GRAVEL, with sand															
	657.3	Weathered LIMESTONE	70		20	11 19 53	NP	19									
	654.8	--AUGUR REFUSAL-- Boring terminated at 71.50 ft			21	42 28 37	NP	14									
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-16-2005** Complete Drilling **05-17-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **T. Rickey** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **13.00 ft**
 At Completion of Drilling ∇ **41.00 ft**
 Time After Drilling **24 hrs hours**
 Depth to Water ∇ **12.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-097

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 725.83 ft
 North: 1993581.20 ft
 East: 998542.73 ft
 Station: 2208+69.79
 Offset: 34.12L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	723.8	24-inch thick, medium stiff, black and brown SILTY CLAY LOAM --TOPSOIL--			1	4 7 11	0.75 P	48						11	4 8 11	2.30 B	14
		Stiff, black and brown SILTY CLAY LOAM	5		2	4 6 7	1.00 P	30				30		12	4 7 10	1.39 B	15
	719.3	Dense, red, brown and black SAND, with gravel			3	4 6 13	1.50 P	37									
			10		4	11 17 19	NP	9				35		13	5 6 7	1.48 B	14
	715.3	COBBLES and BOULDERS			5		---										
	712.8	Very dense, brown GRAVELLY SAND, with cobbles			6	25 50/2"	NP	11						14	4 7 11	2.05 B	14
	710.8	COBBLES and BOULDERS	15		7	21 17 11	---										
	706.8	Stiff to very stiff, dark brown to gray CLAY LOAM, with interbedded sand lenses	20		8	7 11 19	2.21 B	13				45		15	4 8 10	1.89 B	14
					9	5 11 13	2.95 B	13									
			25		10	5 10 13	3.20 B	13				50		16	4 10 12	1.80 B	13

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-17-2005** Complete Drilling **05-18-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **T. Rickey** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **6.50 ft**
 At Completion of Drilling ∇ **4.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-097

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 725.83 ft
 North: 1993581.20 ft
 East: 998542.73 ft
 Station: 2208+69.79
 Offset: 34.12L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
											RQD = 26%			2			
										648.3							
											Boring terminated at 77.50 ft						
			55	X	17	4 10 13	2.54 B	13				80					
			60	X	18	7 10 16	1.72 B	14				85					
			65	X	19	5 26 15	1.15 B	14				90					
	658.3	--AUGER REFUSAL--															
		Very strong, white to gray with green hue, moderately weathered, fossiliferous, finely crystalline LIMESTONE, laminated to thinly bedded with narrow to moderately wide joint spacing, with vugs and channelized pores. RUN 1: 67.5 to 72.5 feet Recovery = 97% RQD = 19%	70		1							95					
			75									100					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-17-2005** Complete Drilling **05-18-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **T. Rickey** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **6.50 ft**
 At Completion of Drilling \blacktriangledown **4.00 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.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-098

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 725.34 ft
 North: 1993511.85 ft
 East: 998858.63 ft
 Station: 2211+85.27
 Offset: 37.12R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	724.8	6-inch thick, gray SANDY CLAY LOAM															
		--TOPSOIL--															
		Very loose to loose, brown and gray SILTY LOAM			1	4 2 1	NP	9		697.8	Stiff to very stiff, brown CLAY LOAM			11	64 50 4	1.25 P	24
					2	2 2 4	NP	11				30		12	6 7 8	1.39 B	15
	719.8	Medium dense to very dense, brown GRAVELLY SAND			3	17 33 40	NP	7						13	4 6 7	1.39 B	15
					4	21 37 37	NP	8						14	5 6 9	1.72 B	11
					5	41 19 32	NP	9						15	5 6 8	1.31 B	14
					6	12 17 15	NP	13						16	6 11 11	2.05 B	14
					7	2 5 20	NP	13									
					8	10 20 29	NP	15									
					9	4 8 15	NP	15									
	702.3	Stiff, gray SILTY CLAY			10	6 11 10	1.80 B	22									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-30-2005** Complete Drilling **06-30-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **K. Anderson** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **4.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-099

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 726.44 ft
 North: 1993585.81 ft
 East: 998858.47 ft
 Station: 2211+85.55
 Offset: 36.83L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	725.8	8-inch thick, dark brown SILTY CLAY --TOPSOIL--															
		Medium dense, black and brown SILTY LOAM			1	16 6 4	NP	14		699.6	CLAY, with interbedded sand and silt lenses			11	2 16 18	1.64 B	25
	723.4	Loose, brown and gray LOAM			2	6 2 2	NP	25				30		12	4 6 9	2.46 B	13
	720.9	Medium dense, brown, medium SAND			3	6 7 7	NP	20									
	718.4	Loose to dense, brown GRAVELLY SAND			4	4 15 14	NP	18				35		13	3 6 7	2.38 B	14
			10		5	12 22 20	NP	13									
					6	5 12 11	NP	10				40		14	3 5 6	2.46 B	14
					7	4 9 11	NP	18									
					8	3 2 3	NP	15				45		15	5 8 10	2.79 B	14
					9	11 18 23	NP	12									
	702.2	Stiff to very stiff, gray SILTY			10	3 5 7	2.25 B	22				50		16	7 9 12	3.77 B	13

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-01-2005** Complete Drilling **07-01-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **4.75 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-099

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 726.44 ft
 North: 1993585.81 ft
 East: 998858.47 ft
 Station: 2211+85.55
 Offset: 36.83L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	671.7	Dense, gray, fine to medium SAND	55	X	17	6 11 24	5.00 B	13									
	667.4	Stiff to very stiff, brown CLAY LOAM	60	X	18	6 10 16	2.71 B	12									
			65	X	19	6 12 14	3.53 B	12									
	657.2	--WEATHERED BEDROCK--		X	20	5 50/2	1.97 B	14									
	656.4	--AUGER REFUSAL--	70														
		Boring terminated at 70.00 ft															
			75														

GENERAL NOTES

Begin Drilling **07-01-2005** Complete Drilling **07-01-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **.3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **5.50 ft**
 At Completion of Drilling \blacktriangledown **4.75 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-100

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 725.32 ft
 North: 1993520.74 ft
 East: 999059.38 ft
 Station: 2213+86.07
 Offset: 29.44R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	724.7	7-inch thick, brown LOAM --TOPSOIL--															
		Hard, dark brown and black SILTY CLAY to CLAY LOAM with cinders --FILL--			1	6 7 7	4.50 P	15						11	6 9 15	NP	15
					2	7 4 5	4.25 P	20		695.8	Dense to very dense, gray GRAVELLY SAND, with boulders and cobbles	30		12	8 20 17	NP	15
	719.8	Medium dense to dense, brown and gray GRAVELLY SAND			3	4 3 9	NP	9						13	50/2"	--	
					4	5 9 13	NP	12									
					5	5 11 26	NP	14		688.3	Stiff to very stiff, gray CLAY LOAM						
					6	9 9 9	NP	10						14	15 6 9	1.72 B	14
					7	6 9 11	NP	16									
					8	5 8 14	NP	18						15	4 7 13	1.80 B	14
	704.8	Medium dense, brown, medium SAND with interbedded clay loam lenses			9	4 4 9	NP	19									
					10	6 9 15	NP	22						16	5 7 11	2.71 B	14

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-05-2005** Complete Drilling **07-05-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&R** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling ∇ **4.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-100

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 725.32 ft
 North: 1993520.74 ft
 East: 999059.38 ft
 Station: 2213+86.07
 Offset: 29.44R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55		17	5 6 12	3.20 B	14									
			60		18	10 12 15	3.69 B	12									
	661.6	Dense, gray SANDY LOAM	65		19	8 17 18	NP	13									
	660.3	Boring terminated at 65.00 ft															
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-05-2005** Complete Drilling **07-05-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&R** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling \blacktriangledown **4.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-101

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 726.07 ft
 North: 1993579.98 ft
 East: 999058.47 ft
 Station: 2213+85.52
 Offset: 29.80L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	725.3	9-inch thick, brown LOAM --TOPSOIL--															
		Stiff to very stiff, dark brown and black SILTY CLAY --FILL--			1	11 10 10	1.50 P	25						11	8 14 19	NP	20
			5		2	6 7 9	3.25 P	24				30		12	5 6 12	NP	27
	720.6	Medium dense to very dense, brown GRAVELLY SAND			3	2 11 9	NP	15									
			10		4	4 11 13	NP	10		692.1	Medium dense, gray GRAVELLY SAND	35		13	5 8 20	NP	7
			15		5	13 27 23	NP	10		689.1	Very stiff, gray CLAY LOAM						
			20		6	10 14 20	NP	11				40		14	7 10 16	2.21 B	14
			25		7	6 7 9	NP	8									
					8	6 10 16	NP	16				45		15	11 12 13	3.36 B	14
	705.6	Loose to dense, brown, medium SAND			9	2 4 4	NP	24									
					10	6 13 19	NP	24				50		16	7 14 15	3.77 B	13

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-05-2005** Complete Drilling **07-05-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **7.50 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-101

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 726.07 ft
 North: 1993579.98 ft
 East: 999058.47 ft
 Station: 2213+85.52
 Offset: 29.80L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55		17	8 12 15	3.28 B	13									
	666.1		60		18	9 15 17	3.03 B	13									
		Boring terminated at 60.00 ft															
			65														
			70														
			75														

GENERAL NOTES

Begin Drilling **07-05-2005** Complete Drilling **07-05-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **7.50 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-102

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 728.90 ft
 North: 1993520.93 ft
 East: 999178.38 ft
 Station: 2215+05.07
 Offset: 29.97R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	728.3	7-inch thick TOPSOIL --TOPSOIL--															
	727.4	Dense, brown GRAVELLY SANDY LOAM --FILL--			1	9 17 15	NP	5						11	2 3 3	NP	18
		Hard, brown CLAY LOAM --FILL--			2	8 14 15	4.50 P	9				30		12	3 4 9	NP	22
	723.4	Stiff, black, brown, and gray SILTY CLAY --FILL--			3	5 4 11	1.39 B	18									
	720.9	Medium dense to dense, brown and gray GRAVELLY SAND			4	4 6 13	NP	11						13	4 8 12	NP	12
					5	8 20 20	NP	9									
					6	7 15 21	NP	11		689.9	Stiff to very stiff, gray CLAY LOAM			14	4 9 14	3.36 B	14
					7	6 16 19	NP	11									
					8	11 10 17	NP	11						15	7 8 9	1.07 B	15
	708.4	Loose to dense, brown, fine to coarse SAND			9	12 21 18	NP	15									
					10	3 4 9	NP	14		681.4	Medium dense, brown, medium SAND			16	8 9 13	NP	16
										679.9	Very stiff, gray CLAY LOAM						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-06-2005** Complete Drilling **07-06-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling ∇ **7.80 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-102

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 728.90 ft
 North: 1993520.93 ft
 East: 999178.38 ft
 Station: 2215+05.07
 Offset: 29.97R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	673.9		55		17	1 3 7	2.30 B	13									
		Boring terminated at 55.00 ft															

GENERAL NOTES

Begin Drilling **07-06-2005** Complete Drilling **07-06-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **8.00 ft**
 At Completion of Drilling \blacktriangledown **7.80 ft**
 Time After Drilling **NA**
 Depth to Water \blacktriangledown **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-103

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 728.83 ft
 North: 1993580.85 ft
 East: 999178.46 ft
 Station: 2215+05.51
 Offset: 29.95L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	728.3	6-inch thick, brown SILTY LOAM --TOPSOIL--															
	726.8	Dense, black and brown LOAM with cinders --FILL--			1	11 15 15	NP	14		702.1	Medium dense, brown, medium SAND			11	16 11 16	NP	18
	724.6	Stiff, brown CLAY LOAM --FILL--			2	4 6 7	1.56 B	13				30		12	7 12 15	NP	27
	723.3	Stiff, black SILTY CLAY --FILL--			5												
	723.3	Soft, black, brown, and gray gravelly SANDY CLAY			3	3 4 7	0.41 B	26		696.8	Stiff to very stiff, gray CLAY LOAM						
	720.8	Medium dense to very dense, brown GRAVELLY SAND			4	7 10 13	NP	12				35		13	7 11 14	2.62 B	13
					5	13 20 27	NP	11									
					6	9 13 13	NP	13				40		14	8 10 12	3.20 B	14
					7	10 18 21	NP	11									
					8	11 16 17	NP	16				45		15	5 8 10	1.64 B	14
					9	20 24 37	NP	10									
					10	8 13 18	NP	10				50		16	7 15 13	1.97 B	13

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-05-2005** Complete Drilling **07-06-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling ∇ **6.80 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-103

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 728.83 ft
 North: 1993580.85 ft
 East: 999178.46 ft
 Station: 2215+05.51
 Offset: 29.95L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
										651.8	fractures --RECOVERY =87.5%-- --RQD=40%--						
											Boring terminated at 77.00 ft						
			55	X	17	7 9 11	2.30 B	15				80					
			60	X	18	6 9 11	2.05 B	13				85					
			65	X	19	6 10 14	2.87 B	13				90					
			70	X	20	12 18 19	3.94 B	12				95					
	657.8	--WEATHERED BEDROCK-- --AUGER REFUSAL--			21												
	656.8					50/1											
		Very strong, gray, finely crystalline, thinly bedded, moderately weathered DOLOMITIC LIMESTONE, with vuggy porosity and frequent	75		1			4				100					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-05-2005** Complete Drilling **07-06-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling ∇ **6.80 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.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-104

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 726.33 ft
 North: 1993518.51 ft
 East: 999300.82 ft
 Station: 2216+27.49
 Offset: 33.12R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		18-inch thick, black SILTY LOAM --TOPSOIL--															
	724.8																
	724.3	Stiff, brown and black CLAY LOAM			1	4 3 4	1.07 S	15						11	5 7 7	1.75 P	19
	723.3	Loose, gray SANDY LOAM Very soft, gray SILTY CLAY LOAM with shells			2	1 2 1	< 0.25 P	35						12	3 5 8	0.75 P	20
	720.8				3	12 16 17	NP	10									
		Medium dense to very dense, brown GRAVELLY SAND			4	12 20 32	NP	8						13	2 11 8	1.72 B	14
					5	13 20 31	NP	8									
					6	4 14 18	NP	11						14	7 8 11	1.25 P	15
					7	5 10 15	NP	18									
					8	13 20 38	NP	9						15	4 5 10	2.38 B	13
					9	11 15 17	NP	8									
	703.3	Medium stiff to stiff, gray SILTY CLAY			10	5 7 9	0.66 B	22						16	6 9 13	2.38 B	13

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-07-2005** Complete Drilling **07-08-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **3.75 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-104

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 726.33 ft
 North: 1993518.51 ft
 East: 999300.82 ft
 Station: 2216+27.49
 Offset: 33.12R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	671.3		55		17	8 9 12	3.61 B	11									
		Boring terminated at 55.00 ft															

GENERAL NOTES

Begin Drilling **07-07-2005** Complete Drilling **07-08-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **3.75 ft**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-105

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 725.81 ft
 North: 1993581.79 ft
 East: 999298.29 ft
 Station: 2216+25.34
 Offset: 30.17L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	725.0	10-inch thick, black SILTY LOAM --TOPSOIL--															
		Very stiff, black and brown SILTY CLAY			1	3 5 5	2.50 P	27						11	8 8 12	3.61 B	13
	722.1	Loose, gray, medium SAND			2	2 2 2	2.25 P	17				30		12	4 5 10	3.77 B	13
	720.3	Dense, brown GRAVELLY SAND			3	7 15 16	NP	8									
					4	9 20 24	NP	6				35		13	3 5 10	3.61 B	13
					5	7 13 21	NP	8									
					6	6 15 20	NP	8				40		14	2 3 8	2.54 B	13
					7	5 15 19	NP	11									
					8	5 19 21	NP	10				45		15	5 7 12	3.28 B	13
	704.3	Very stiff, gray CLAY LOAM			9	8 17 14	NP	8									
					10	18 15 11	2.00 P	13				50		16	3 8 13	3.94 B	13
										675.8							

Boring terminated at 50.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-06-2005** Complete Drilling **07-07-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **S&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **4.25 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-106

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 731.32 ft
 North: 1993523.14 ft
 East: 999417.36 ft
 Station: 2217+44.06
 Offset: 29.19R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	731.04	1/4-inch thick, black SILTY LOAM --TOPSOIL-- Medium dense, brown and black SILTY LOAM --FILL--			1	6 5 5	NP	11		703.3				11	21 12 8	NP	11
	728.3	Very stiff, dark brown SILTY CLAY LOAM with cinders and brick --FILL--			2	5 7 6	3.50 P	19			Stiff to hard, gray CLAY LOAM			12	6 7 12	2.79 B	14
	725.8	Stiff, brown and gray SILTY CLAY with sand interbeds			3	6 8 9	1.64 B	16									
	723.3	Dense to very dense, brown GRAVELLY SAND, with cobbles			4	8 23 29	NP	8						13	6 8 12	4.67 B	13
					5	27 27 31	NP	10									
					6	28 26 34	NP	8						14	6 9 14	2.30 B	15
					7	14 16 20	NP	16									
	713.3	Medium dense, brown SAND			8	6 9 12	NP	20						15	5 6 12	1.97 B	13
	710.8	Medium dense to very dense, brown and gray GRAVELLY SAND			9	26 49 25	NP	9									
					10	32 17 15	NP	11						16	8 10 14	3.20 B	14
										681.3							

Boring terminated at 50.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-07-2005** Complete Drilling **07-07-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **10.50 ft**
 At Completion of Drilling ∇ **9.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-107

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 729.66 ft
 North: 1993582.29 ft
 East: 999418.53 ft
 Station: 2217+45.58
 Offset: 29.94L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	729.26	6-inch gray SILTY CLAY LOAM --TOPSOIL-- Medium stiff to hard, black, brown and gray SILTY CLAY to SILTY CLAY LOAM --FILL--			1	7 6 5	4.50 P	13		704.2	Stiff to hard, gray CLAY LOAM			11	5 8 12	2.30 B	14	
			5		2	5 5 6	2.50 P	14				30		12	6 8 11	2.87 B	14	
	724.2	Medium stiff, brown and gray SILTY CLAY LOAM with sand interbeds			3	4 5 6	0.66 B	21										
	720.7	Dense, brown GRAVELLY SAND	10		4	17 22 14	NP	64				35		13	5 10 15	1.39 B	14	
					5	11 25 24	NP	9										
			15		6	7 15 19	NP	8				40		14	3 5 10	1.97 B	14	
					7	13 24 25	NP	8										
	710.7	Medium dense to very dense, gray, fine SAND	20		8	12 14 13	NP	9				45		15	5 9 15	4.26 B	14	
					9	12 15 50/5"	NP	19										
	706.7	Dense, gray SANDY GRAVEL	25		10	4 21 28	NP	10				50		16	2 7 14	2.71 B	14	
										679.7								

Boring terminated at 50.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-08-2005** Complete Drilling **07-08-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **K. Anderson** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **11.25 ft**
 At Completion of Drilling ∇ **9.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-108

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 741.75 ft
 North: 1993522.46 ft
 East: 999538.07 ft
 Station: 2218+64.88
 Offset: 30.31R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	741.26	6-inch, black LOAM															
		--TOPSOIL--															
		Loose to medium dense, brown GRAVELLY SAND			1	13 5 4	NP	4						11	6 18 50/5"	1.25 P	20
		--FILL--															
			5		2	12 5 5	NP	5		712.5	Stiff to very stiff, gray CLAY LOAM	30		12	12 16 20	---	
	736.2	Stiff, brown SILTY CLAY LOAM															
		--FILL--															
					3	7 5 5	1.25 P	18									
	733.7	Medium dense, brown and black LOAM															
		--FILL--															
			10		4	9 6 22	NP	15						13	7 7 11	3.00 P	15
	731.2	Dense to very dense, brown GRAVELLY SAND															
					5	1 10 21	NP	5									
			15		6	19 26 31	NP	5						14	9 11 14	2.50 P	13
					7	50 50 26	NP	5									
			20		8	50/3"	NP	3						15	8 11 10	1.50 P	15
	720.2	Stiff to very stiff, brown and gray SILTY CLAY															
					9	64 10 10	1.75 P	13									
			25		10	11 8 17	3.00 P	19						16	11 10 14	2.25 P	10

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-11-2005** Complete Drilling **07-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **K. Anderson** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **25.50 ft**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-108

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 741.75 ft
 North: 1993522.46 ft
 East: 999538.07 ft
 Station: 2218+64.88
 Offset: 30.31R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55		17	7 11 18	2.75 P	13									
	684.7	Dense, gray SILTY LOAM	60		18	15 22 20	NP	19									
	679.7	Very stiff, gray CLAY LOAM	65		19	10 11 17	3.53 B	13									
	676.7	Boring terminated at 65.00 ft	70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-11-2005** Complete Drilling **07-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **K. Anderson** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **25.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-109

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 742.29 ft
 North: 1993589.19 ft
 East: 999538.22 ft
 Station: 2218+65.17
 Offset: 36.42L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	741.8	6-inch thick brown SANDY LOAM --TOPSOIL--															
		Loose, brown and black LOAM --FILL--			1	6 3 2	NP	8						11	5 11 12	NP	13
	739.3	Very stiff, brown SILTY CLAY --FILL--			2	3 3 4	3.75 P	17				30		12	10 13 19	NP	9
	736.8	Medium dense, gray SANDY LOAM --FILL--			3	3 5 6	NP	17		710.3	Stiff to hard, gray CLAY LOAM						
	734.3	Stiff to very stiff, brown and black CLAY LOAM --FILL--			4	4 7 7	1.07 S	17				35		13	15 11 14	1.80 B	14
					5	3 5 8	2.62 B	22									
					6	3 3 3	1.07 B	20				40		14	3 8 11	3.03 B	14
	726.8	Medium dense to dense, brown and gray GRAVELLY SAND			7	9 11 20	NP	10									
					8	8 13 25	NP	5				45		15	6 10 14	4.76 B	14
					9	16 19 25	NP	12									
					10	4 8 13	NP	11				50		16	8 10 14	2.71 B	14

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-08-2005** Complete Drilling **07-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **K. Anderson** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **20.50 ft**
 At Completion of Drilling ∇ **24.00 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-109

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 742.29 ft
 North: 1993589.19 ft
 East: 999538.22 ft
 Station: 2218+65.17
 Offset: 36.42L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	672.3		55		17	6 9 11	2.62 B	14									
			60		18	6 7 13	2.71 B	13									
			65		19	8 13 17	1.25 P	17									
			70		20	12 22 18	1.75 P	16									
		Boring terminated at 70.00 ft															
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-08-2005** Complete Drilling **07-11-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **K. Anderson** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **20.50 ft**
 At Completion of Drilling \blacktriangledown **24.00 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.



BORING LOG S-110

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 745.91 ft
 North: 1993522.28 ft
 East: 999657.38 ft
 Station: 2219+84.19
 Offset: 30.73R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	745.46	6-inch thick, brown SANDY LOAM															
		--TOPSOIL--															
		Dense, brown GRAVELLY SAND			1	8 14 18	NP	3						11	5 8 9	1.23 B	14
	742.9	Stiff to hard, brown to gray CLAY LOAM			2	13 11 8	4.18 B	11				30		12	5 6 9	2.87 B	13
			5		3	12 7 10	4.10 B	12						13	6 9 11	2.46 B	13
			10		4	4 6 7	3.50 P	12				35		14	6 10 13	3.28 B	13
			15		5	3 5 7	3.20 B	11				40		15	6 9 12	2.62 B	14
			20		6	5 6 8	2.46 B	11				45		16	5 7 9	2.46 B	15
			25		7	3 4 7	1.97 B	13									
					8	2 4 6	2.05 B	13									
					9	4 5 8	1.15 B	12									
					10	5 6 9	2.13 B	11									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-11-2005** Complete Drilling **07-12-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **K. Anderson** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **59.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-110

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 745.91 ft
 North: 1993522.28 ft
 East: 999657.38 ft
 Station: 2219+84.19
 Offset: 30.73R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55		17	5 8 10	2.05 B	11									
	686.4	Medium dense, gray to brown, fine SAND to SANDY LOAM	60		18	6 15 11	NP	21									
			65		19	5 6 8	NP	19									
	675.9	Boring terminated at 70.00 ft	70		20	12 12 29	NP	11									
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-11-2005** Complete Drilling **07-12-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **K. Anderson** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **59.50 ft**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-111

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 751.91 ft
 North: 1993581.33 ft
 East: 999655.10 ft
 Station: 2219+82.04
 Offset: 28.31L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	751.46	6-inch thick, brown LOAM --TOPSOIL-- Hard, brown SILTY CLAY LOAM			1	9 3 7	4.50 P	11						11	8 8 10	1.56 B	13
	748.9	Medium dense, brown LOAM			2	5 8 14	NP	7				30		12	8 8 10	1.97 B	13
	745.4	Medium stiff to very stiff, brown to gray CLAY LOAM			3	21 12 12	--										
			10		4	8 10 11	1.25 P	8				35		13	7 9 9	1.00 P	13
					5	4 6 8	1.25 P	9									
			15		6	8 5 8	1.39 B	12				40		14	5 6 8	2.38 B	14
					7	8 8 9	1.25 P	11									
			20		8	6 7 9	2.00 P	12				45		15	6 8 9	2.62 B	14
					9	3 3 5	1.56 B	13									
			25		10	5 7 9	1.75 P	13				50		16	6 11 12	2.25 P	13

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-11-2005** Complete Drilling **07-12-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **K. Anderson** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **82.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-111

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 751.91 ft
 North: 1993581.33 ft
 East: 999655.10 ft
 Station: 2219+82.04
 Offset: 28.31L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55	X	17	7 14 14	2.00 P	14					X	23	12 12 14	2.95 B	13
				X	18	5 7 9	2.13 B	13		669.9	Dense, brown, fine SAND		X	24	23 29 27	2.00 P	12
			60	X	19	6 7 9	1.64 B	13					X	25	27 19 14	NP	17
				X	20	4 5 6	0.98 B	15		665.4	Very stiff, gray CLAY LOAM		X	26	14 20 17	2.54 S	12
			70	X	21	5 8 7	1.87 B	15		661.9	Boring terminated at 90.00 ft						
			75	O	22	18 26 33	--										

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-11-2005** Complete Drilling **07-12-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **K. Anderson** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **82.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-112

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 761.89 ft
 North: 1993521.62 ft
 East: 999777.17 ft
 Station: 2221+03.98
 Offset: 31.63R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	761.64	inch thick, PEA GRAVEL, with dark brown SILTY LOAM															
	760.3	--TOPSOIL--			1	2 3 3	NP	4						11	5 7 9	2.21 B	12
		Loose, gray GRAVEL															
		--FILL--															
	758.9	Very stiff, brown SILTY CLAY LOAM			2	9 15 15	NP	2				30		12	5 9 14	1.25 P	12
		Dense, brown GRAVELLY SAND	5														
					3	23 18 17	NP	3									
	752.7	Medium stiff to stiff, gray CLAY LOAM	10		4	16 21 9	NP	7				35		13	3 6 9	1.80 B	11
					5	3 5 6		1.72 B									
	747.9	Medium dense, gray, fine SAND	15		6	3 7 7		0.90 B				40		14	6 9 10	1.80 B	13
	746.4	Stiff to very stiff, gray CLAY LOAM			7	3 5 8		2.71 B									
					8	4 6 9		1.18 B				45		15	5 7 11	1.97 B	13
					9	4 7 14		1.72 B									
					10	3 7 8		2.71 B				50		16	5 10 12	2.13 B	14

GENERAL NOTES

Begin Drilling **08-01-2005** Complete Drilling **08-01-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **14.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-112

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 761.89 ft
 North: 1993521.62 ft
 East: 999777.17 ft
 Station: 2221+03.98
 Offset: 31.63R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55	X	17	6 9 15	1.80 B	14				80	X	22	7 10 18	2.05 B	13
			60	X	18	6 7 10	1.97 B	14				85	X	23	9 14 19	3.44 B	13
	699.9	Medium dense, gray, medium to fine SAND	65	X	19	5 11 16	NP	20		674.9	Medium dense, brown, medium SAND	90	X	24	3 11 17	NP	15
	695.4	Stiff to very stiff, gray CLAY LOAM	70	X	20	7 9 11	1.97 B	15		667.9	Hard, gray gravelly CLAY LOAM	95	X	25	22 54 50/5"	10.25 B	10
			75	X	21	14 9 12	1.64 B	15		664.9	Very dense, gray GRAVELLY SAND						
										661.9	Very stiff, gray CLAY LOAM	100	X	26	7 9 15	2.21 B	14

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-01-2005** Complete Drilling **08-01-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **14.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-113

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 764.56 ft
 North: 1993582.38 ft
 East: 999783.54 ft
 Station: 2221+10.47L
 Offset: 29.11L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	764.24	inch thick, PEA GRAVEL, with															
	763.6	dark brown SILTY LOAM															
		--TOPSOIL--															
		8- inch thick SAND and GRAVEL			1	8 7 7	2.50 P	11						11	6 8 10	2.05 B	12
		--FILL--															
		Very stiff, brown SILTY CLAY															
	760.8	LOAM			2	6 7 10	NP	7				30		12	9 14 12	---	
		Medium dense, brown SILT															
	759.1	Medium dense to very dense, brown GRAVELLY SAND			3	14 18 39	NP	3						13	7 7 9	1.31 B	13
					4	10 30 27	NP	3						14	3 6 9	1.07 B	12
					5	13 7 18	NP	8									
	751.3	Stiff to very stiff, gray CLAY LOAM			6	47 35 7	2.25 P	12						15	5 9 11	2.21 B	12
					7	8 10 12	1.00 P	12									
					8	3 6 10	1.64 B	13						16	6 8 13	2.21 B	14
					9	5 9 11	2.21 B	13									
					10	4 6 9	1.89 B	13						17	6 7 8	1.80 B	14

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-29-2005** Complete Drilling **07-29-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-113

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 764.56 ft
 North: 1993582.38 ft
 East: 999783.54 ft
 Station: 2221+10.47L
 Offset: 29.11L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55	X	18	7 10 14	2.62 B	13									
			60	X	19	7 9 13	2.05 B	14									
	702.6	Dense, gray SILTY LOAM															
			65	X	20	15 18 18	NP	14									
	698.1	Stiff, gray CLAY LOAM															
			70	X	21	8 10 13	1.39 B	14									
			75	X	22	8 8 8	1.48 B	14									
	689.6	Boring terminated at 75.00 ft															

GENERAL NOTES

Begin Drilling **07-29-2005** Complete Drilling **07-29-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-114

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 761.61 ft
 North: 1993501.54 ft
 East: 999834.79 ft
 Station: 2221+61.56
 Offset: 51.82R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	761.16	16-inch thick, brown SANDY LOAM --TOPSOIL--															
		Dense, brown and gray GRAVELLY SAND			1	16 21 14	NP	5						11	3 6 11	0.90 B	12
	758.6	Medium stiff to hard, brown CLAY LOAM			2	17 13 14	4.50 P	10				30		12	2 9 9	2.30 B	
			5		3	13 13 16	4.35 B	11									
			10		4	7 11 12	3.61 B	11				35		13	5 8 11	1.64 B	12
					5	6 9 10	2.79 B	11									
			15		6	8 15 18	2.38 B	10				40		14	3 7 11	1.64 B	13
					7	6 8 12	2.54 B	12									
			20		8	5 6 9	2.21 B	12				45		15	3 8 11	1.89 B	13
					9	4 4 8	2.21 B	12									
			25		10	4 4 8	1.48 B	12				50		16	3 7 9	1.48 B	14

GENERAL NOTES

Begin Drilling **07-12-2005** Complete Drilling **07-12-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **K. Anderson** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-114

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 761.61 ft
 North: 1993501.54 ft
 East: 999834.79 ft
 Station: 2221+61.56
 Offset: 51.82R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	701.6		55		17	11 5 7	1.80 B	15									
			60		18	2 5 8	2.05 B	14									
		Boring terminated at 60.00 ft															
			65														
			70														
			75														

GENERAL NOTES

Begin Drilling **07-12-2005** Complete Drilling **07-12-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&L** Logger **K. Anderson** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-115

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 773.61 ft
 North: 1993633.27 ft
 East: 999833.60 ft
 Station: 2221+60.64
 Offset: 79.90L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	773.34	inch thick, dark brown LOAM, with cobbles --TOPSOIL-- Very stiff, brown SILTY CLAY LOAM			1	11 10 14	2.75 P	14						11	5 7 8	1.80 B	12	
	770.6	Medium dense, brown SANDY LOAM, with cobbles			2	14 18 11	NP	5				30		12	5 6 7	1.72 B	12	
	769.6	Stiff to very stiff, brown CLAY LOAM	5		3	6 8 8	3.20 B	12						13	5 9 9	1.97 B	12	
					4	4 7 9	2.13 B	12						14	5 8 9	2.30 B	11	
					5	5 7 8	1.80 B	10										
					6	4 6 8	1.64 B	12						15	4 6 8	1.80 B	13	
					7	4 6 7	1.89 B	11										
					8	4 6 7	2.54 B	12						16	6 7 10	2.05 B	12	
					9	7 8 11	2.21 B	12										
					10	6 7 8	2.05 B	12						17	6 10 12	2.79 B	13	

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-29-2005** Complete Drilling **07-29-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-115

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 773.61 ft
 North: 1993633.27 ft
 East: 999833.60 ft
 Station: 2221+60.64
 Offset: 79.90L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	713.6		55		18	9 9 13	1.15 B	13									
			60		19	8 11 13	2.71 B	14									
		Boring terminated at 60.00 ft															
			65														
			70														
			75														

GENERAL NOTES

Begin Drilling **07-29-2005** Complete Drilling **07-29-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-116

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 775.92 ft
 North: 1993479.81 ft
 East: 999912.64 ft
 Station: 2222+39.37
 Offset: 73.70R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	775.73	73-inch thick, gray SANDY LOAM --TOPSOIL--																
	774.4	Gray CLAY LOAM Medium dense, brown GRAVELLY SAND			1	4 10 11	NP	3						11	4 8 11	2.71 B	12	
			5		2	3 14 13	NP	3				30		12	6 10 13	2.46 B	12	
	770.4	Stiff, brown SANDY CLAY			3	7 9 14	1.00 P	11										
	767.9	Stiff to very stiff, gray CLAY LOAM			4	4 7 10	2.87 B	12						13	4 8 9	1.89 B	12	
			10		5	3 6 9	2.79 B	11										
			15		6	2 6 7	2.54 B	11				40		14	6 11 12	3.28 B	11	
					7	5 9 11	2.71 B	12										
			20		8	4 7 10	3.03 B	12				45		15	7 10 13	3.12 B	13	
					9	3 6 8	2.46 B	12										
			25		10	4 6 7	2.30 B	12				50		16	5 10 13	2.62 B	14	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-13-2005** Complete Drilling **07-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **K. Anderson** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **47.50 ft**
 At Completion of Drilling ∇ **47.50 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.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-116

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 775.92 ft
 North: 1993479.81 ft
 East: 999912.64 ft
 Station: 2222+39.37
 Offset: 73.70R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	720.9		55		17	6 12 17	3.03 B	14									
		Boring terminated at 55.00 ft															

GENERAL NOTES

Begin Drilling **07-13-2005** Complete Drilling **07-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **K. Anderson** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **47.50 ft**
 At Completion of Drilling \blacktriangledown **47.50 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-117

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 792.65 ft
 North: 1993629.93 ft
 East: 999920.43 ft
 Station: 2222+47.46
 Offset: 76.38L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	792.2	6-inch thick, brown GRAVELLY SAND															
	791.7	6-inch thick, back LOAM															
		Very stiff, black and brown SILTY CLAY LOAM			1	6 5 4	2.25 P	16						11	6 6 8	2.13 B	11
	788.4	Medium dense, brown fine to gravelly SAND	5		2	6 6 7	---					30		12	7 7 9	2.38 B	10
	786.2	Stiff to very stiff, brown and gray CLAY LOAM			3	7 8 5	3.20 B	11						13	4 7 8	2.21 B	12
					4	3 6 9	2.21 B	12				35		14	13 6 9	1.07 B	11
					5	3 9 11	3.03 B	12						15	5 7 13	2.87 B	12
					6	4 6 12	2.21 B	13				40		16	6 8 10	2.21 B	12
					7	8 10 13	3.61 B	11						17	5 5 8	1.39 B	13
					8	6 11 19	2.71 B	10				45		18	7 9 12	1.50 P	13
					9	6 7 9	3.12 B	11						19	6 9 13	3.12 B	12
					10	7 8 10	3.20 B	12				50		20	7 9 17	2.05 B	12

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-28-2005** Complete Drilling **07-28-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-117

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 792.65 ft
 North: 1993629.93 ft
 East: 999920.43 ft
 Station: 2222+47.46
 Offset: 76.38L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	732.7		55		21	5 8 10	1.64 B	13									
			60		22	6 9 12	2.21 B	12									
		Boring terminated at 60.00 ft															
			65														
			70														
			75														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-28-2005** Complete Drilling **07-28-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-118

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 779.92 ft
 North: 1993501.60 ft
 East: 999985.75 ft
 Station: 2223+12.52
 Offset: 52.06R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--BLIND DRILLING TO 6 FEET--															
	773.9	Dense, brown SANDY LOAM		X	1	13 16 18	NP	11					X	9	13 9 10	3.12 B	12
	771.9	Stiff to hard, brown CLAY LOAM		X	2	8 13 16	5.17 B	10					X	10	4 9 12	2.87 B	12
				X	3	6 9 13	3.85 B	10					X	11	10 13 17	1.75 P	12
				X	4	4 8 12	2.62 B	10					X	12	12 16 20	1.50 P	11
				X	5	5 7 9	2.46 B	11					X	13	15 20 24	---	13
				X	6	2 8 11	3.20 B	11					X	14	8 13 18	2.46 B	12
				X	7	3 9 11	4.76 B	12					X	15	15 14 10	1.07 B	14
				X	8	5 8 10	3.94 B	12					X	15	15 14 10	1.07 B	14

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-12-2005** Complete Drilling **07-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **K. Anderson** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-118

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 779.92 ft
 North: 1993501.60 ft
 East: 999985.75 ft
 Station: 2223+12.52
 Offset: 52.06R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	719.9		55		16	7 9 13	1.25 P	16									
			60		17	8 10 14	3.03 B	15									
		Boring terminated at 60.00 ft															
			65														
			70														
			75														

GENERAL NOTES

Begin Drilling **07-12-2005** Complete Drilling **07-13-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **K. Anderson** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG S-119

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 804.69 ft
 North: 1993635.63 ft
 East: 999982.01 ft
 Station: 2223+09.05
 Offset: 81.96L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	803.6	13 inch thick, brown and black SANDY CLAY LOAM															
	803.2	--TOPSOIL--															
		Dense, brown SANDY LOAM			1	9 25 14	NP	3						11	7 9 11	4.02 B	10
		Stiff to hard, brown and gray CLAY LOAM			2	6 9 12	3.20	10				30		12	5 8 11	3.28 B	12
					3	5 9 13	3.69	10						13	5 7 10	2.71 B	11
					4	7 10 14	3.20	11				35		14	6 7 10	3.20 B	12
					5	5 8 13	3.44	11						15	5 10 12	3.03 B	10
					6	4 9 12	3.53	11				40		16	7 9 12	4.59 B	11
					7	9 12 16	4.67	11						17	9 9 16	2.87 B	12
					8	8 15 18	4.51	11				45		18	8 7 11	3.28 B	12
					9	8 11 14	2.87	10						19	12 9 10	1.15 B	13
					10	7 10 13	2.62	11				50		20	8 8 12	3.03 B	11

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-27-2005** Complete Drilling **07-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-120

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 792.36 ft
 North: 1993506.34 ft
 East: 1000058.76 ft
 Station: 2223+85.54
 Offset: 47.48R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	792.13	13-inch thick, dark brown LOAM --TOPSOIL--															
	790.9	Brown SILTY LOAM with gravel and cobbles Stiff to hard, brown CLAY LOAM			1	8 10 13	NP	11						11	11 15 16	5.25 B	10
			5		2	9 14 12	4.50 P	9				30		12	7 12 12	3.53 B	10
					3	8 10 12	4.50 P	10						13	10 13 13	3.94 B	11
			10		4	6 9 12	4.76 S	10				35		14	8 11 13	3.94 B	11
					5	7 9 14	4.02 B	11						15	5 7 12	1.64 B	12
			15		6	6 22 28	4.50 P	11		752.4		40		16	4 7 11	3.28 B	12
					7	8 9 14	3.28 B	11			Boring terminated at 40.00 ft						
			20		8	6 11 14	5.41 B	10				45					
					9	9 14 16	5.99 B	10									
			25		10	9 13 15	3.94 B	10				50					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-04-2005** Complete Drilling **08-04-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG S-121A

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 804.94 ft
 North: 1993751.63 ft
 East: 1000060.41 ft
 Station: 2223+87.68
 Offset: 197.81L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	804.2	Brown fine GRAVELLY SAND --FILL--															
		Stiff to hard, brown CLAY LOAM	5	X	1	7 10 12	5.74 B	10				30	X	8	7 9 12	2.05 B	11
			10	X	2	3 8 13	2.54 B	10				35	X	10	8 13 18	1.39 B	14
			15	X	3	3 8 8	2.30 B	13				40	X	12	7 12 13	2.95 B	12
			20	X	4	4 9 11	2.62 B	13				45	X	14	9 12 14	3.94 B	10
				X	5	7 12 15	4.35 B	12					X	15	10 13 18	2.62 B	12
			25	X	6	7 11 15	3.69 B	17				50	X	16	6 8 11	2.87 B	12

GENERAL NOTES

Begin Drilling **07-26-2005** Complete Drilling **07-27-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-122

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 807.94 ft
 North: 1993512.11 ft
 East: 1000135.06 ft
 Station: 2224+61.85
 Offset: 41.86R

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	805.9	Medium dense, brown LOAM with sand, gravel, cobbles, and tree debris --FILL--			1	23 12 9	NP	6						11	8 10 16	2.54 B	11
	803.3	Medium dense, brown GRAVELLY SAND --FILL--			2	5 9 7	NP	3				30		12	6 10 12	3.12 B	11
		Stiff to hard, brown CLAY LOAM	5		3	9 10 12	4.59 B	10						13	8 11 16	2.54 B	11
			10		4	6 9 13	3.61 S	11						14	12 12 15	3.28 B	11
			15		5	13 14 13	3.94 B	10						15	14 18 20	2.00 P	10
			20		6	7 14 14	2.79 B	11						16	10 17 17	3.12 B	10
			25		7	6 9 12	2.71 B	11						17	14 17 22	1.50 P	11
					8	8 9 15	3.69 B	11						18	12 15 20	4.67 B	11
					9	8 14 15	3.85 B	11						19	10 15 21	3.85 B	11
					10	8 13 14	4.51 B	11						20	10 12 17	3.69 B	12

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-03-2005** Complete Drilling **08-03-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **J. Kasnick** Checked by **B. Fugiel**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-123

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 808.57 ft
 North: 1993692.72 ft
 East: 1000143.34 ft
 Station: 2224+70.50
 Offset: 138.72L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	807.7	10-inch thick, brown GRAVELLY SAND															
		--FILL--															
		Stiff to hard, brown CLAY LOAM			1	7 7 6	2.75 P	9						11	7 8 12	2.13 B	10
			5		2	4 5 8	2.79 B	10				30		12	9 9 13	2.54 B	10
					3	3 7 8	1.23 B	9						13	6 7 9	2.62 B	11
			10		4	3 6 9	2.54 B	11						14	8 9 10	1.89 B	11
					5	5 8 12	4.50 P	10						15			
			15		6	5 8 11	1.89 B	9				40		16	7 9 11	1.80 B	12
					7	7 11 17	4.50 P	9						17	4 7 13	1.67 B	11
			20		8	9 10 14	5.25 B	10				45		18	7 9 12	2.05 B	11
					9	8 9 13	2.30 B	10						19	11 14 17	2.79 B	11
			25		10	9 12 14	4.00 P	9				50		20	6 11 13	2.30 B	12

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-25-2005** Complete Drilling **07-26-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&D** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



BORING LOG S-123

wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 808.57 ft
 North: 1993692.72 ft
 East: 1000143.34 ft
 Station: 2224+70.50
 Offset: 138.72L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
					21	5 9 13	2.21 B	12										
			55		22	5 8 12	2.21 B	11					80		28	7 8 13	1.15 B	14
					23	6 8 12	2.21 B	12										
				60	24	8 9 9	1.97 B	12					723.6		29	8 10 17	3.69 B	13
					25	7 8 12	2.38 B	11										
				70	26	6 9 11	1.80 B	12										
					27	9 4 20	3.77 B	12										
				75										100				
										Boring terminated at 85.00 ft								

GENERAL NOTES

Begin Drilling **07-25-2005** Complete Drilling **07-26-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **J&D** Logger **J. Kasnick** Checked by **N. Davis**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG SPT-09

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 829.94 ft
 North: 1993555.85 ft
 East: 1000973.12 ft
 Station: 2233+00.00
 Offset: 0.20L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	828.7	Brown SAND and GRAVEL --QUARRY DRIVEWAY--															
	826.9	Very stiff, brown and gray SANDY CLAY --FILL--	5		1	9 8 6	2.25 P	10									
	824.4	Medium dense, brown SANDY LOAM with asphalt debris --FILL--	5		2	12 9 6	NP	8									
	819.4	Stiff to very stiff, dark brown and gray SILTY CLAY to CLAY	10		3	6 4 6	1.89 B	23									
	815.9	Stiff, brown SANDY CLAY LOAM	15		4	4 5 8	2.38 B	22									
	815.9	Medium dense to very dense, brown GRAVELLY SAND	15		5	4 12 15	1.00 P	12									
	807.4	Boring terminated at 22.50 ft	20		6	7 13 15	NP	5									
			20		7	13 15 18	NP	5									
			25		8	34 27 25	NP	4									
					9	8 19 18	NP	8									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-14-2005** Complete Drilling **07-14-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 ATV**
 Driller **K&J** Logger **K. Anderson** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2012301.GPJ WANGENG.GDT 1/11/12



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG SPT-13

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 871.29 ft
 North: 1993608.20 ft
 East: 1002073.25 ft
 Station: 2244+00.13
 Offset: 0.32L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	870.3	12-inch thick, black SILTY LOAM --TOPSOIL--															
	869.3	Dense, brown SANDY LOAM --FILL--			1	13 17 23	NP	7									
		Stiff to very stiff, brown, black, and gray SILTY CLAY --FILL--			2	15 4 5	1.23 B	20									
	865.8	Stiff, brown and gray SILTY CLAY			3	6 4 3	1.00 P	18									
			10		4	3 3 2	---										
	860.8	Dense to very dense, brown fine to coarse GRAVELLY SAND			5	10 14 19	NP	9									
					6	18 29 24	NP	5									
					7	26 26 24	NP	4									
					8	22 36 38	NP	4									
	851.3	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-22-2005** Complete Drilling **07-22-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 TMR**
 Driller **L&D** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG SPT-14

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 860.68 ft
 North: 1993558.70 ft
 East: 1002172.92 ft
 Station: 2244+99.80
 Offset: 0.14L

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	859.7	12-inch thick, dark brown SILTY LOAM															
		--TOPSOIL--			1	13 11 7	2.50 P	20									
		Stiff to very stiff, brown, black and gray SILTY CLAY															
		--FILL--			2	9 5 10	2.25 P	30									
	855.2	Stiff, brown CLAY			3	5 5 7	1.48 P	22									
	851.7	Very dense, brown GRAVELLY SAND			4	22 34 31	NP	4									
					5	44 30 43	NP	5									
					6	50/3"	NP	2									
					7	50 50 23	NP	4									
	843.2	Boring terminated at 17.50 ft															

GENERAL NOTES

Begin Drilling **07-22-2005** Complete Drilling **07-22-2005**
 Drilling Contractor **PRECON DRILLING** Drill Rig **CME-75 TMR**
 Driller **L&D** Logger **W. Wang** Checked by **J. Kasnick**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG SX-02

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 912.48 ft
 North: 1993442.25 ft
 East: 987320.19 ft
 Station: 2095+36.45
 Offset: 41.10 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	911.0	18-inch thick TOPSOIL --FILL--								887.0	Medium dense to dense, gray SANDY GRAVEL						
		Stiff to very stiff, black organic SILTY CLAY	1	X	1	3 2 4	2.00 P	43				11	X	11	3 11 22	NP	7
	907.5	Soft, gray SILTY CLAY with trace SAND	5	X	2	2 2 3	1.25 P	36				30	X	12	8 12 15	NP	16
		--L _L (%)=25, P _L (%)=13--	10	X	4	0 1 2	0.49 B	16				35	X	13	8 9 9	NP	16
	902.0	Stiff to very stiff, gray SILTY LOAM to SILTY CLAY LOAM 0.25-inch gray sand seam at 12.75 feet	15	X	5	0 3 2	1.07 B	14		876.0	Medium dense, gray SAND						
			15	X	6	1 3 5	2.62 B	13		873.5	Very stiff, gray SILTY CLAY LOAM	40	X	14	7 10 14	2.38 B	10
				X	7	1 4 6	2.13 B	12									
		--%Gravel=12.3-- --%Sand=24.5--20 --%Silt=55.0-- --%Clay=8.3--		X	8	3 4 10	2.38 B	12				45					
	892.0	Medium dense, brown SANDY LOAM		X	9	3 5 7	NP	8									
			25	X	10	4 4 9	NP	10				50					

GENERAL NOTES

Begin Drilling **11-08-2010** Complete Drilling **11-09-2010**
 Drilling Contractor **WTS** Drill Rig **TMR - B-57**
 Driller **R&J** Logger **N. Boddy** Checked by **A. Kurnia**
 Drilling Method **3.25-inch HSA**

WATER LEVEL DATA

While Drilling **25.50 ft**
 At Completion of Drilling **7.00 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.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG SX-03

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 912.04 ft
 North: 1993443.25 ft
 East: 987385.51 ft
 Station: 2096+01.68
 Offset: 44.67 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	910.7	16-inch thick TOPSOIL --TOPSOIL--								886.5	Medium dense to dense, gray SANDY LOAM with trace gravel						
		Medium stiff to stiff, black and brown organic SILTY CLAY		X	1	2 3 3	1.50 P	20					X	11	7 16 33		10
			5	X	2	2 3 4	0.82 S	43				30	X	12	6 10 11		7
	906.5	Soft to medium stiff, black PEAT		X	3	0 1 1	0.74 B	135									
			10	X	4	0 0 0	0.41 B	237				35	X	13	5 7 10		9
	901.5	Soft, gray CLAY		X	5	0 0 0	0.33 B	72									
			15	X	6	0 0 3	0.41 B	70		874.5	Medium dense, brown SAND		X	14	4 5 5		9
	897.3	Medium stiff to hard, gray SILTY LOAM to SILTY CLAY LOAM		X	7	0 0 1	0.74 B	18		872.0	Boring terminated at 40.00 ft						
		--%Gravel=5.3-- --%Sand=20.2-- --%Silt=64.8-- --%Clay=9.7--		X	8	1 3 4	1.23 B	19				45					
		--L _L (%)=18, P _L (%)=12--	20	X	9	2 4 6	1.72 B	10									
			25	X	10	4 8 10	4.10 B	11				50					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **11-08-2010** Complete Drilling **11-08-2010**
 Drilling Contractor **WTS** Drill Rig **TMR - B-57**
 Driller **R&J** Logger **N. Boddy** Checked by **A. Kurnia**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **37.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG SX-04

WEI Job No.: 201-23-01

Client **McDonough Associates Inc.**
 Project **Longmeadow Parkway over Fox River, Section**
 Location **Co.**

Datum: NGVD
 Elevation: 915.59 ft
 North: 1993441.22 ft
 East: 987451.33 ft
 Station: 2096+67.53
 Offset: 45.23 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	914.4	14-ich thick, black SILTY CLAY LOAM															
		--TOPSOIL--			1	5 6 4	NP	8									
	912.6	Medium dense, brown SANDY LOAM															
		Stiff, black, brown and gray CLAY LOAM			2	3 3 3	1.31 S	16									
		--FILL-- --%Gravel=0.2-- --%Sand=44.0-- --%Silt=31.1-- --%Clay=24.6--			3	2 2 3	1.64 B	24									
	907.8	Stiff to hard, brown and gray SILTY LOAM to SILTY CLAY LOAM, trace gravel			4	4 9 9	4.00 P	14									
			10		5	4 5 7	3.69 B	11									
			15		6	3 6 50/4	2.46 B	12									
					7	3 3 5	1.72 B	12									
	897.6	Loose, brown GRAVELLY SAND			8	3 3 5	NP	13									
	895.6	Boring terminated at 20.00 ft	20														
			25														

GENERAL NOTES

WATER LEVEL DATA

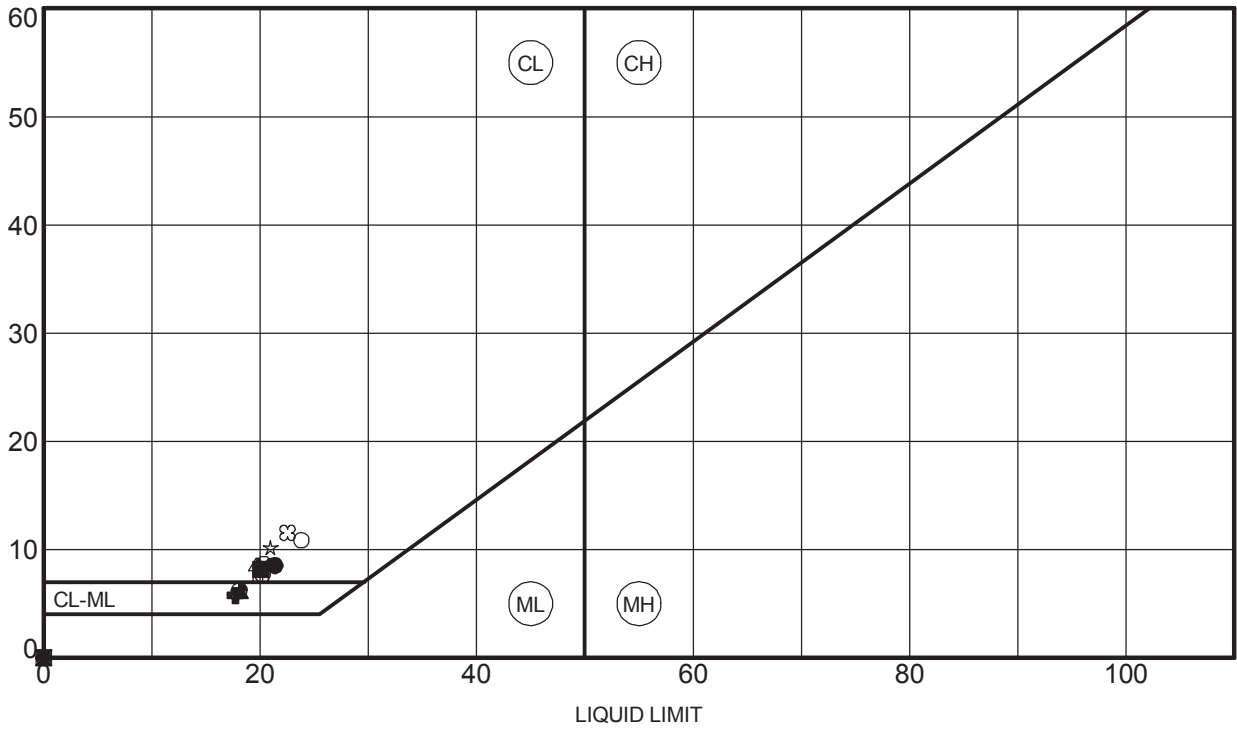
Begin Drilling **11-08-2010** Complete Drilling **11-08-2010**
 Drilling Contractor **WTS** Drill Rig **TMR - B-57**
 Driller **R&J** Logger **N. Boddy** Checked by **A. Kurnia**
 Drilling Method **3.25-inch HSA**

While Drilling ∇ **18.00 ft**
 At Completion of Drilling ∇ **7.00 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.

APPENDIX B: Laboratory Test Results

P L A S T I C I T Y
I N D E X



Specimen Identification	LL	PL	PI	Fines	IDH Classification	
● S-005#15	56.0 ft	21	13	8	67	Silty Clay Loam
⊗ S-008#6	28.5 ft	NP	NP	NP	10	Gravelly Sandy Loam
▲ S-008#10	43.5 ft	18	12	6	49	Loam
★ S-011#6	13.5 ft	NP	NP	NP	48	Loam
⊙ S-012#2	21.0 ft	NP	NP	NP	11	Gravelly Sand
⊕ S-017#9	46.0 ft	18	12	6	52	Loam
○ S-017#17	78.5 ft	24	13	11	63	Clay Loam
△ S-027#17	46.0 ft	20	11	9	61	Clay Loam
⊗ S-028#5	43.5 ft	NP	NP	NP	53	Loam
⊕ S-071#16	38.5 ft	20	13	7	59	Clay Loam
□ S-074#12	38.5 ft	20	12	8	63	Clay Loam
⊕ S-080#6	21.0 ft	20	12	8	62	Clay Loam
⊕ S-085#10	26.0 ft	18	12	6	51	Loam
★ S-095#12	28.5 ft	21	11	10	69	Clay Loam
⊗ S-096#18	58.5 ft	23	11	12	72	Clay
■ SX-01#6	13.5 ft	20	12	8	64	Silty Loam
◆ SX-02#8	18.5 ft	NP	NP	NP	64	Silty Loam
◇ SX-03#7	16.0 ft	NP	NP	NP	75	Silty Loam

WEI ATTERBERG LIMITS IDH 2012301.GPJ US LAB.GDT 1/11/12



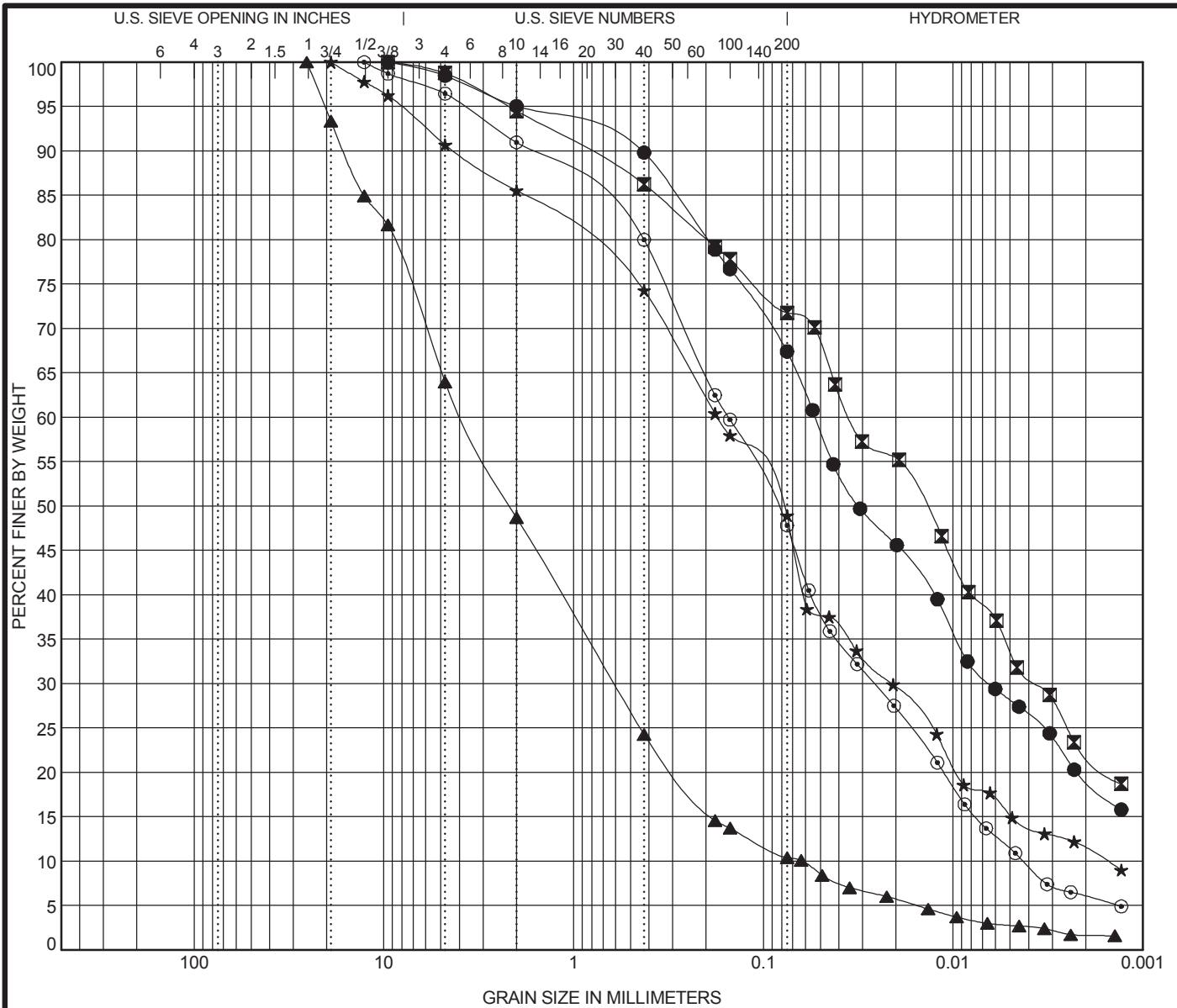
Wang Engineering, Inc.
1145 N Main Street
Lombard, IL 60148
Telephone: 630-953-9928
Fax: 630-953-9938

ATTERBERG LIMITS' RESULTS

Project: Longmeadow Parkway over Fox River

Location: Kane County, Illinois

Number: 201-23-01



COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● S-005#15 56.0 ft	Silty Clay Loam	21	13	8		
☒ S-007#4 8.5 ft	Silty Clay Loam					
▲ S-008#6 28.5 ft	Gravelly Sandy Loam	NP	NP	NP	1.58	60.84
★ S-008#10 43.5 ft	Loam	18	12	6	1.62	112.24
◎ S-011#6 13.5 ft	Loam	NP	NP	NP	1.04	35.85

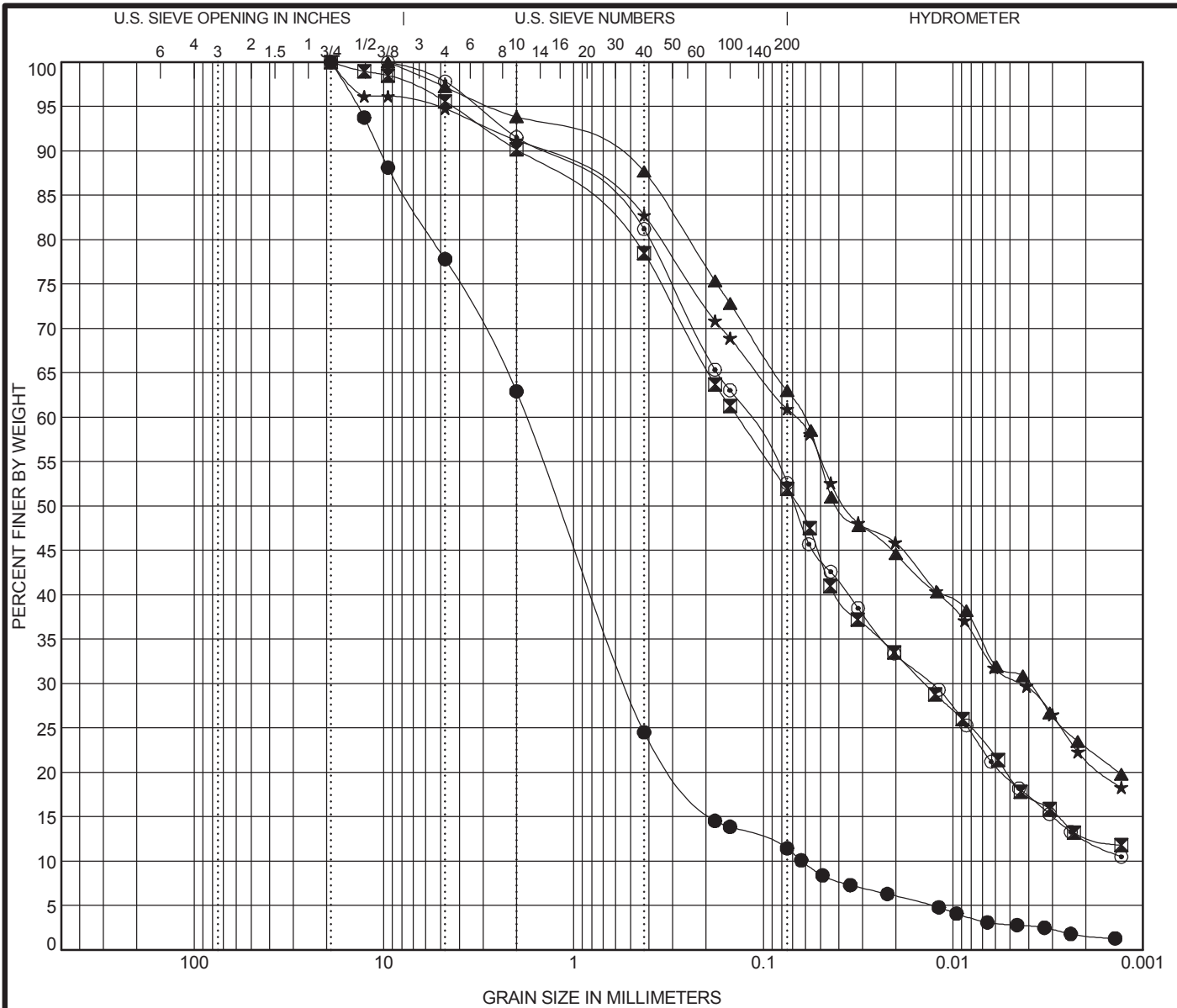
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● S-005#15 56.0 ft	9.5	0.053	0.006		5.0	27.9	47.9	19.2
☒ S-007#4 8.5 ft	9.5	0.035	0.004		5.5	22.8	49.4	22.2
▲ S-008#6 28.5 ft	25.4	3.793	0.611	0.062	51.3	38.3	8.7	1.7
★ S-008#10 43.5 ft	19	0.174	0.021	0.002	14.4	37.2	36.9	11.4
◎ S-011#6 13.5 ft	12.7	0.153	0.026	0.004	9.0	43.5	41.4	6.0

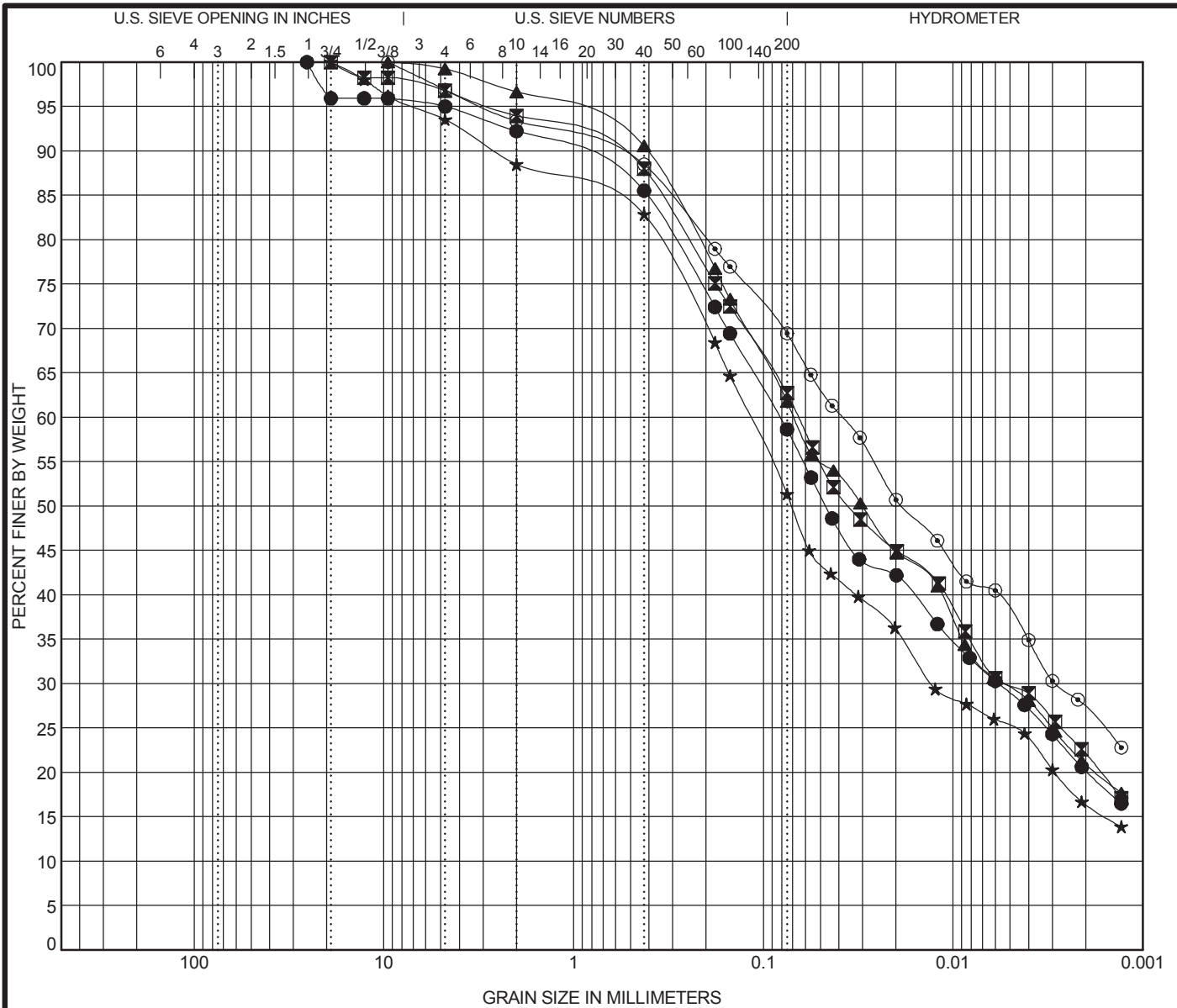


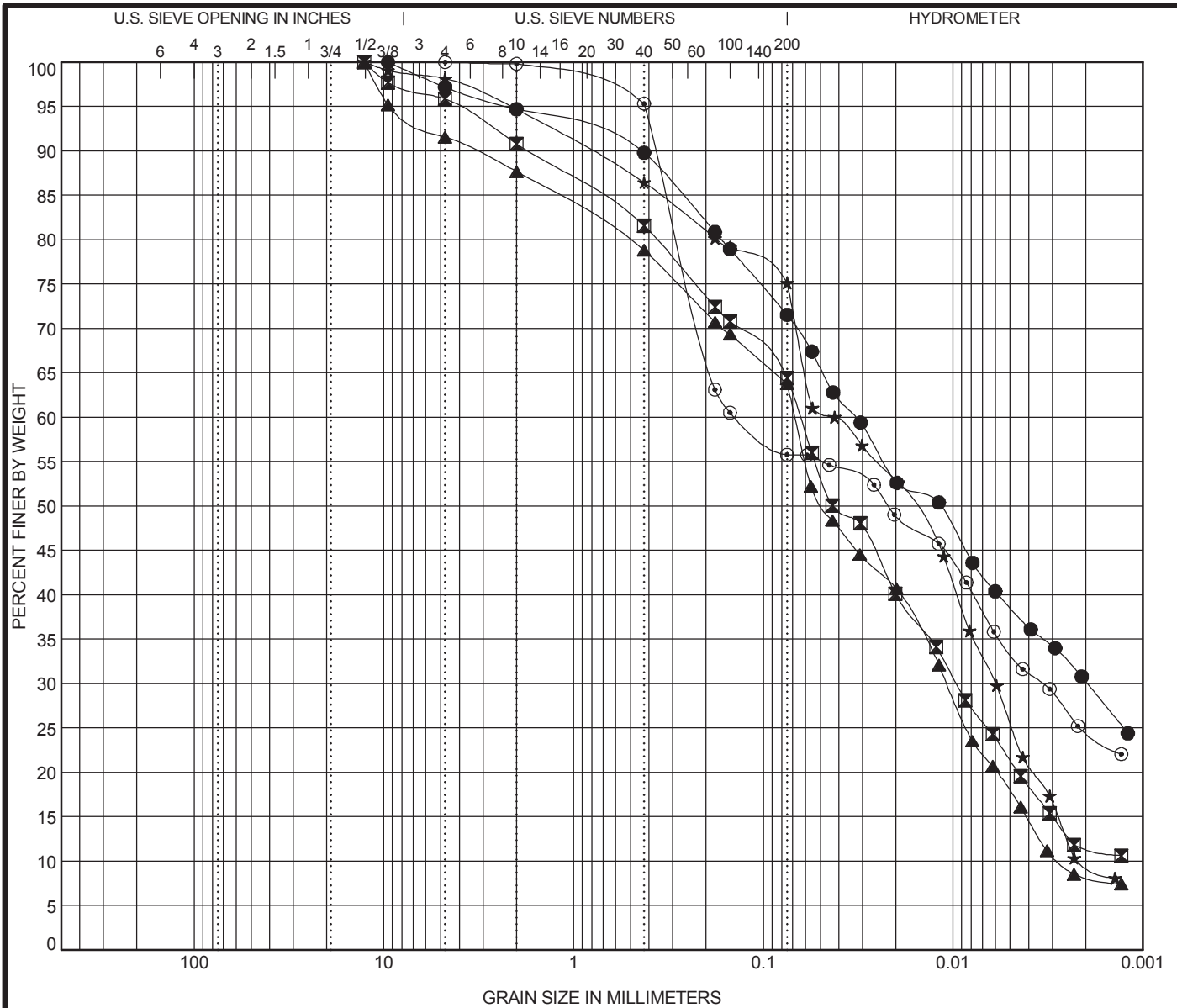
Wang Engineering, Inc.
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

GRAIN SIZE DISTRIBUTION
 Project: Longmeadow Parkway over Fox River
 Location: Kane County, Illinois
 Number: 201-23-01

WEI GRAIN SIZE IDH 2012301.GPJ US LAB.GDT 1/11/12







COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification	LL	PL	PI	Cc	Cu
●	S-096#18 58.5 ft	Clay	23	11	12		
☒	SX-01#6 13.5 ft	Silty Loam	20	12	8		
▲	SX-02#8 18.5 ft	Silty Loam	NP	NP	NP	0.61	24.67
★	SX-03#7 16.0 ft	Silty Loam	NP	NP	NP	0.40	19.77

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	S-096#18 58.5 ft	9.5	0.033	0.002		5.3	23.4	41.1	30.2
☒	SX-01#6 13.5 ft	12.7	0.064	0.01		9.2	26.7	52.5	11.5
▲	SX-02#8 18.5 ft	12.7	0.068	0.011	0.003	12.3	24.5	55.0	8.3
★	SX-03#7 16.0 ft	12.7	0.042	0.006	0.002	5.3	20.2	64.8	9.7
⊙	SX-04#2 3.5 ft	4.75	0.139	0.003		0.2	44.0	31.1	24.6



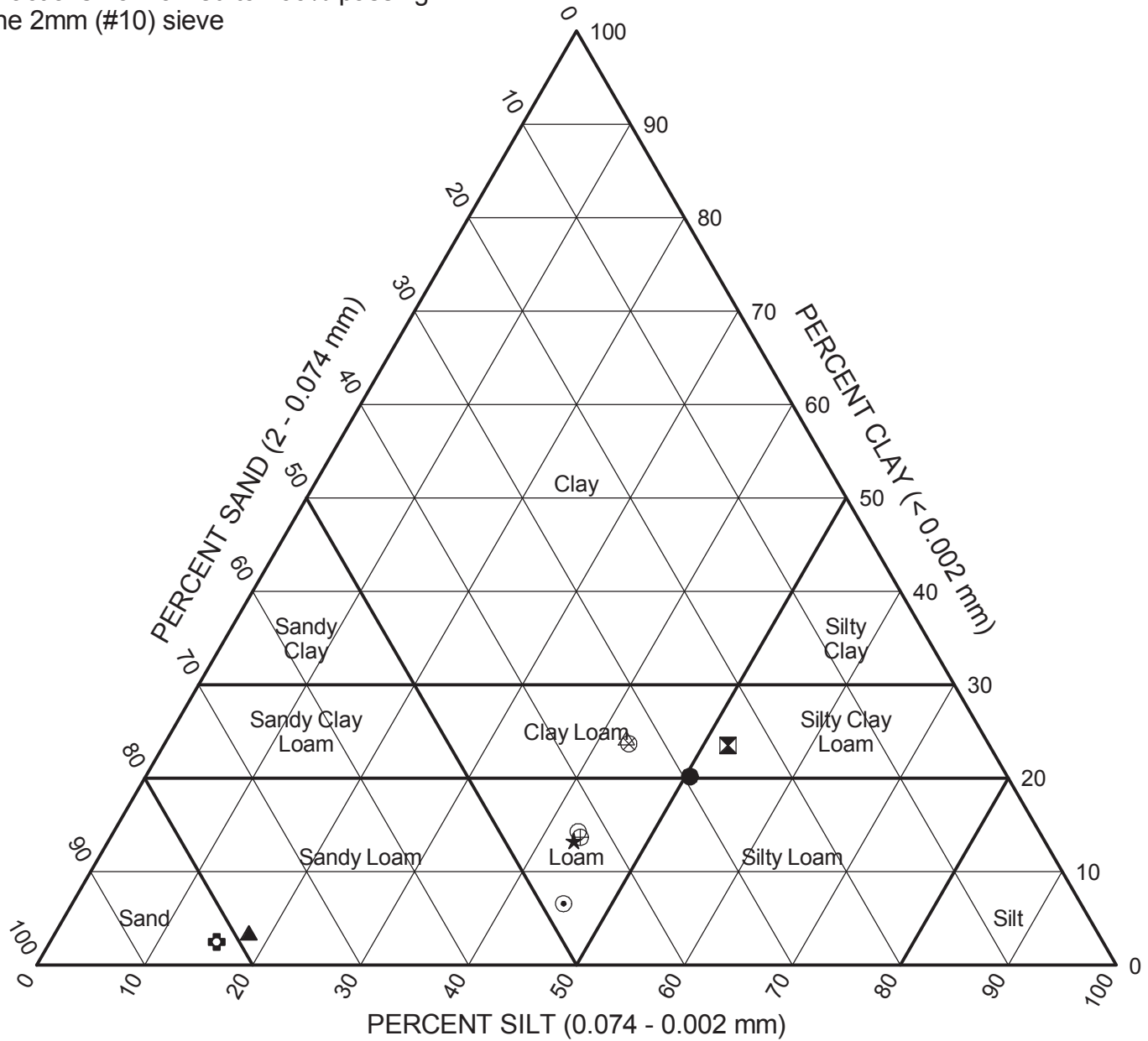
Wang Engineering, Inc.
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

GRAIN SIZE DISTRIBUTION

Project: Longmeadow Parkway over Fox River
 Location: Kane County, Illinois
 Number: 201-23-01

WEI GRAIN SIZE IDH 2012301.GPJ US LAB.GDT 1/11/12

Fractions normalized to 100% passing the 2mm (#10) sieve



	Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	ASTM
●	S-005#15	56.0	29.4	50.4	20.2	Silty Clay Loam	A-4 (2)	CL
⊠	S-007#4	8.5	24.1	52.3	23.5	Silty Clay Loam		
▲	S-008#6	28.5	78.6	17.9	3.5	Gravelly Sandy Loam	A-1-a (0)	SW-SM
★	S-008#10	43.5	43.5	43.1	13.3	Loam	A-4 (0)	SC-SM
⊙	S-011#6	13.5	47.8	45.5	6.6	Loam	A-4 (0)	SM
⊕	S-012#2	21.0	82.0	15.4	2.5	Gravelly Sand	A-1-b (0)	SW-SM
○	S-017#9	46.0	42.7	43.0	14.3	Loam	A-4 (0)	CL-ML
△	S-017#17	78.5	33.2	42.5	24.3	Clay Loam	A-6 (4)	CL
⊗	S-027#17	46.0	33.3	43.0	23.7	Clay Loam	A-4 (2)	CL
⊕	S-028#5	43.5	43.0	43.5	13.7	Loam	A-4 (0)	ML

WEI_IDH_2012301.GPJ_WANGENG_GDT_1/11/12

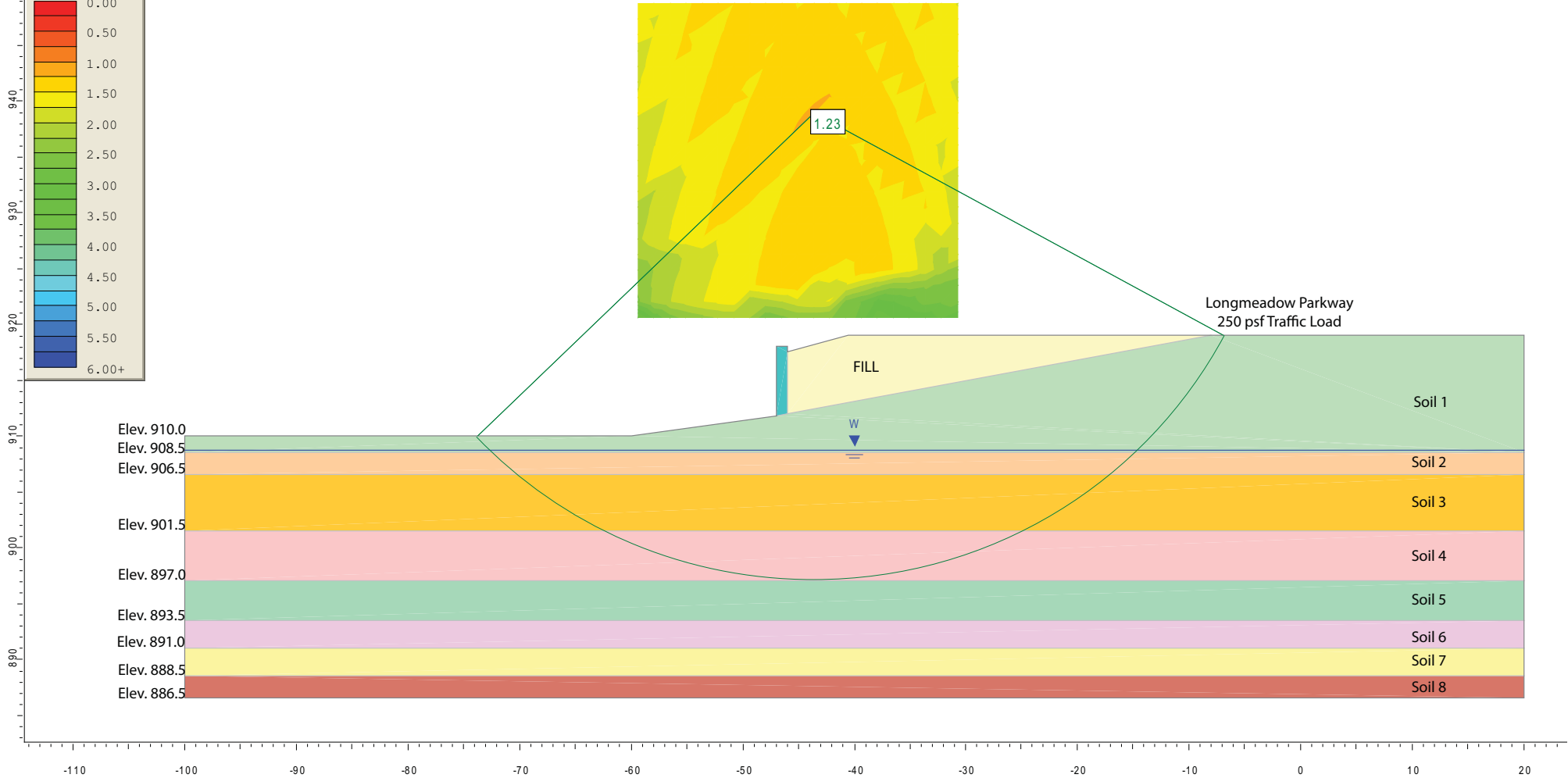
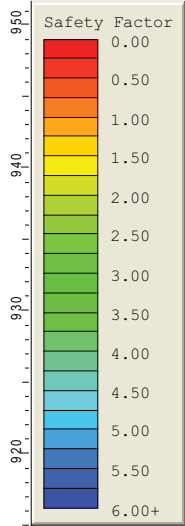


Wang Engineering, Inc.
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

IDH Textural Classification Chart

Project: Longmeadow Parkway over Fox River
 Location: Kane County, Illinois
 Number: 201-23-01

APPENDIX C: Global Stability Evaluations



Soil Properties

Soil ID	Soil Type	Unit Weight (pcf)	Soil Parameter	
			C_u (psf)	ϕ (deg.)
Fill	IDOT Cohesive FILL	125	1000	0
1	Loose to Medum Dense Silty Loam	120	0	28
2	Medium Stiff Silty Clay	115	500	0
3	Soft Peat	60	400	0
4	Very Soft Clay	90	200	0
5	Medium Stiff Silty Loam to Silty Clay Loam	115	740	0
6	Stiff Silty Loam to Silty Clay Loam	120	1230	0
7	Stiff Silty Loam to Silty Clay Loam	120	1720	0
8	Hard Silty Loam to Silty Clay Loam	120	4100	0

SLOPE STABILITY ANALYSIS: BOLZ ROAD / LONGMEADOW PARCKWAY
OVER THE FOX RIVER, Kane County, IL

SCALE: GRAPHICAL

APPENDIX C-1

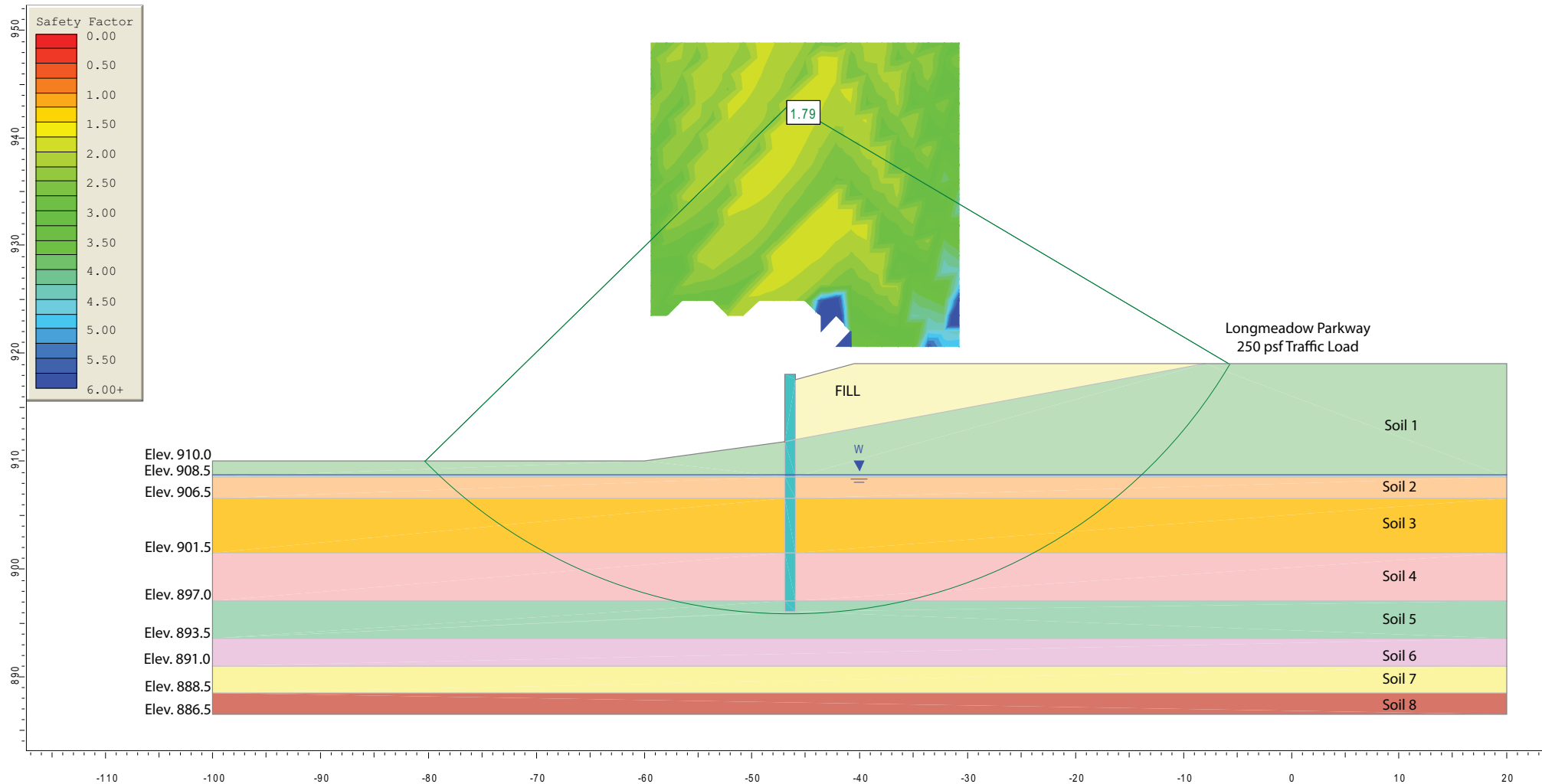
DRAWN BY: A.A.K.
CHECKED BY: M.A.K.



1145 N. Main Street
Lombard, IL 60148
www.wangeng.com

FOR MCDONOUGH ASSOCIATES, INC.

201-23-01



Soil Properties

Soil ID	Soil Type	Unit Weight (pcf)	Soil Parameter	
			C_u (psf)	ϕ (deg.)
Fill	IDOT Cohesive FILL	125	1000	0
1	Loose to Medum Dense Silty Loam	120	0	28
2	Medium Stiff Silty Clay	115	500	0
3	Soft Peat	60	400	0
4	Very Soft Clay	90	200	0
5	Medium Stiff Silty Loam to Silty Clay Loam	115	740	0
6	Stiff Silty Loam to Silty Clay Loam	120	1230	0
7	Stiff Silty Loam to Silty Clay Loam	120	1720	0
8	Hard Silty Loam to Silty Clay Loam	120	4100	0

SLOPE STABILITY ANALYSIS: BOLZ ROAD / LONGMEADOW PARCKWAY OVER THE FOX RIVER, Kane County, IL

SCALE: GRAPHICAL

APPENDIX C-2

DRAWN BY: A.A.K.
CHECKED BY: M.A.K.

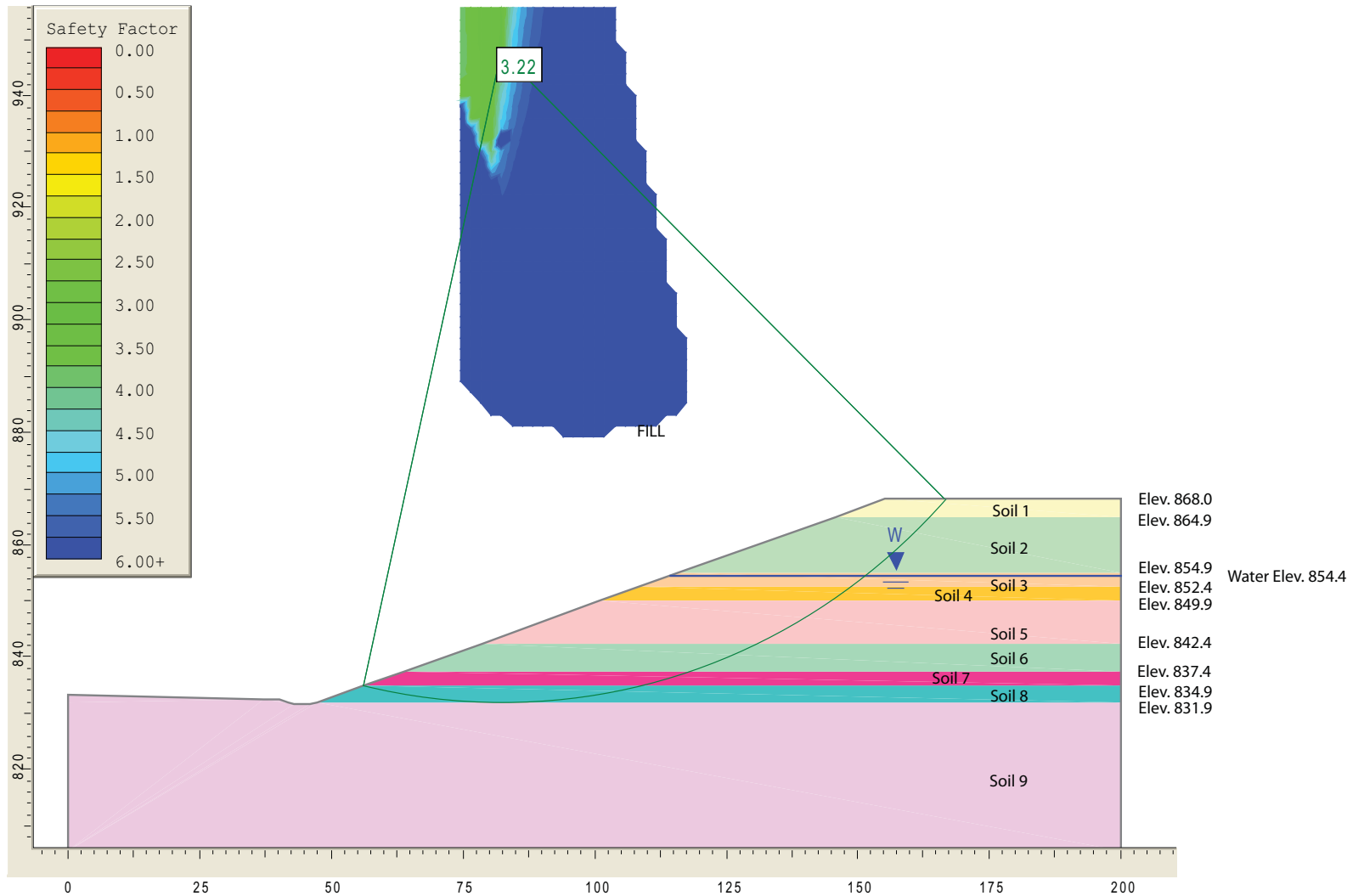


Wang
Engineering

1145 N. Main Street
Lombard, IL 60148
www.wangeng.com

FOR MCDONOUGH ASSOCIATES, INC.

201-23-01



Soil Properties

Soil ID	Soil Type	Unit Weight [pcf]	Short-Term c_u [psf]	Parameter ϕ [deg.]
1	Soft Silty Clay Loam	105	410	0
2	Loose Sand	100	0	26
3	Medium Stiff Sandy Clay	100	900	0
4	Medium Dense Silt	105	0	29
5	Stiff Silty Clay	120	1560	0
6	Dense Loam	120	0	32
7	Very Stiff Clay Loam	120	3850	0
8	Medium Dense Sand	125	0	32
9	Hard Clay Loam	125	4500	0

SLOPE STABILITY ANALYSIS: BOLZ ROAD / LONGMEADOW PARCKWAY OVER THE FOX RIVER, Kane County, IL

SCALE: GRAPHICAL **APPENDIX C-3** DRAWN BY: A.A.K.
 CHECKED BY: M.A.K.

Wang Engineering
 1145 N. Main Street
 Lombard, IL 60148
 www.wangeng.com

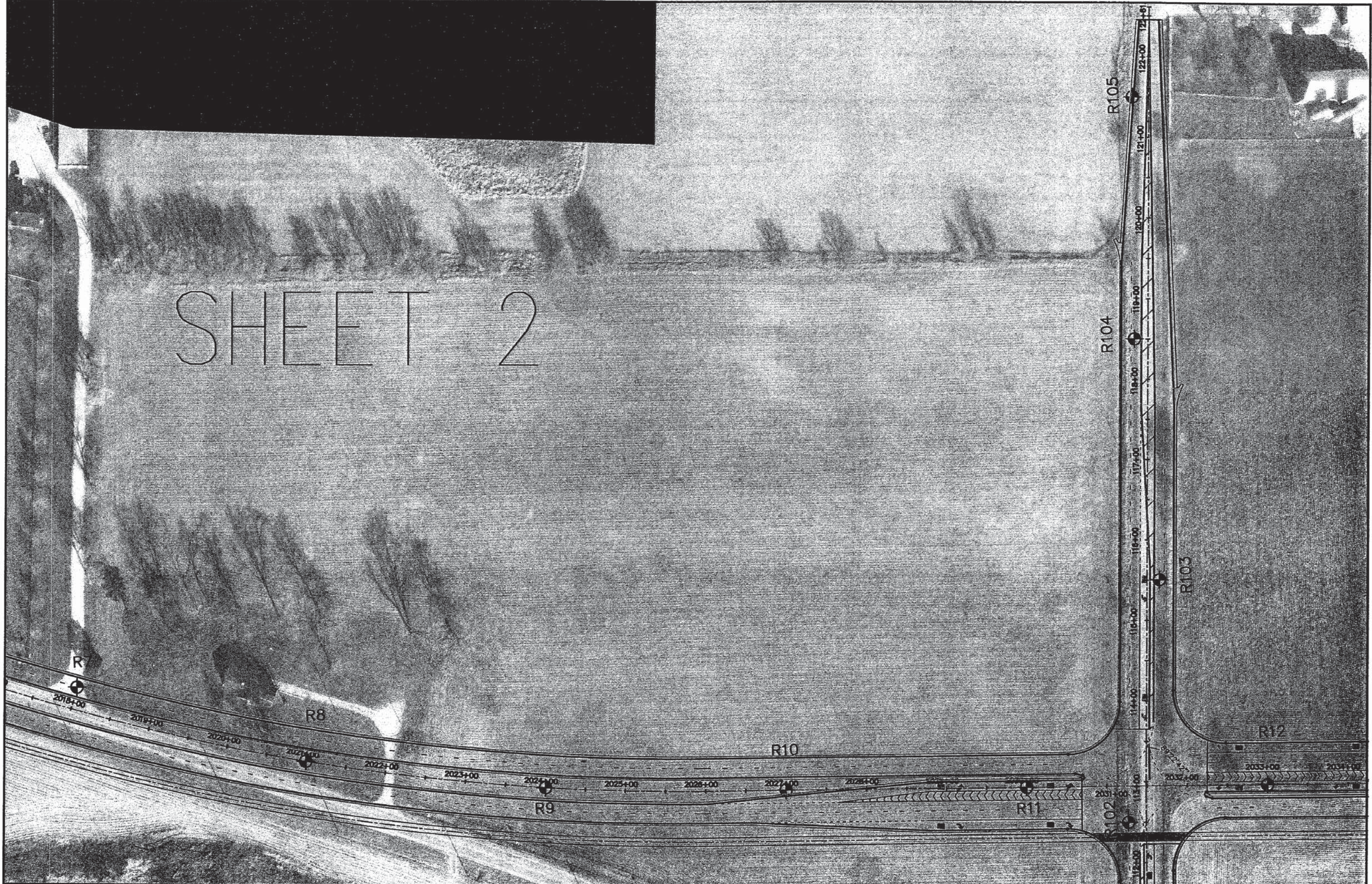
FOR MCDONOUGH ASSOCIATES, INC. **201-23-01**

APPENDIX D: Boring Locations Plans



SHEET

SHEET 2



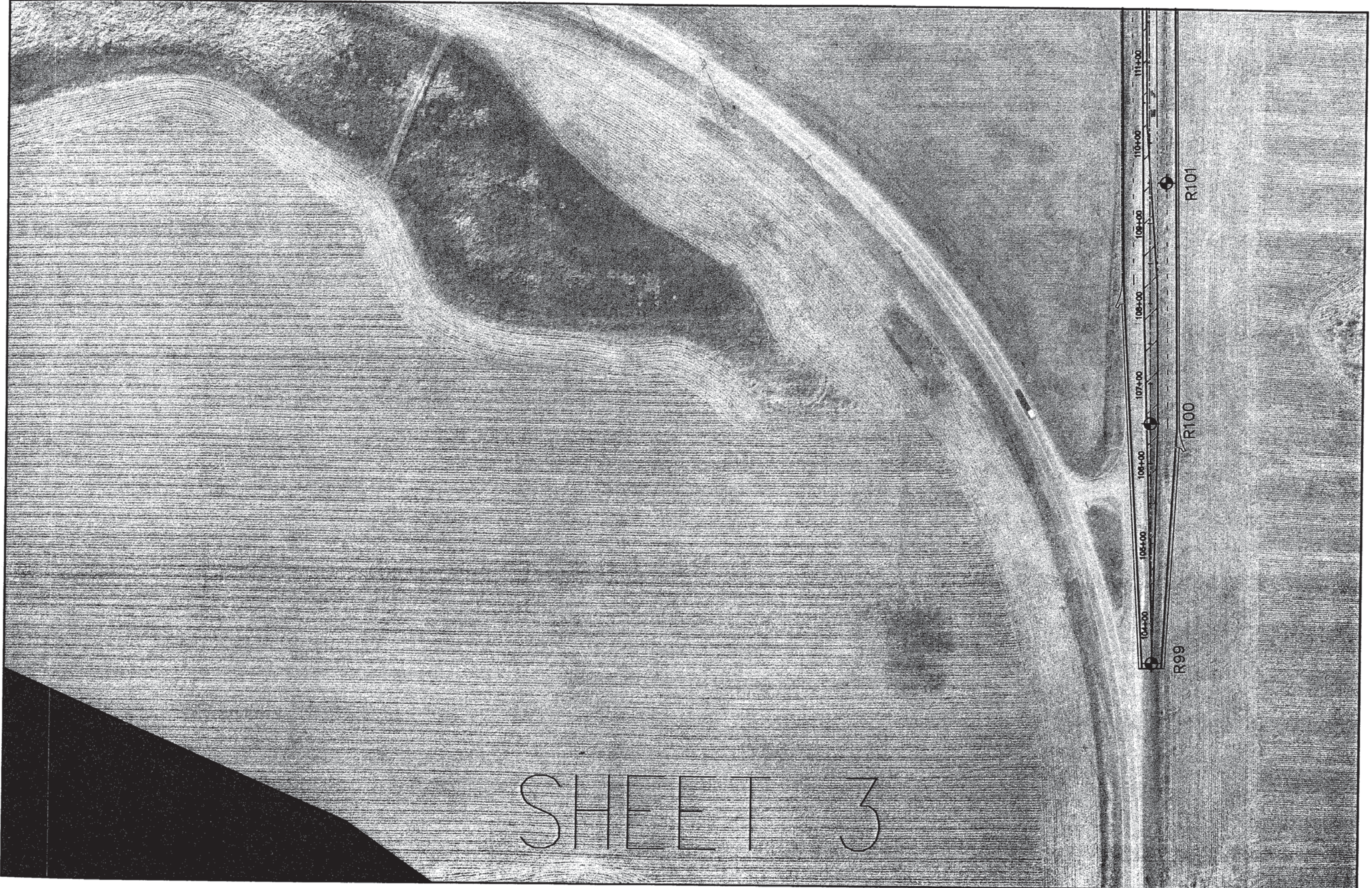
SHEET 3

104+00 105+00 106+00 107+00 108+00 109+00 110+00 111+00

R99

R100

R101



R14

R16

R18

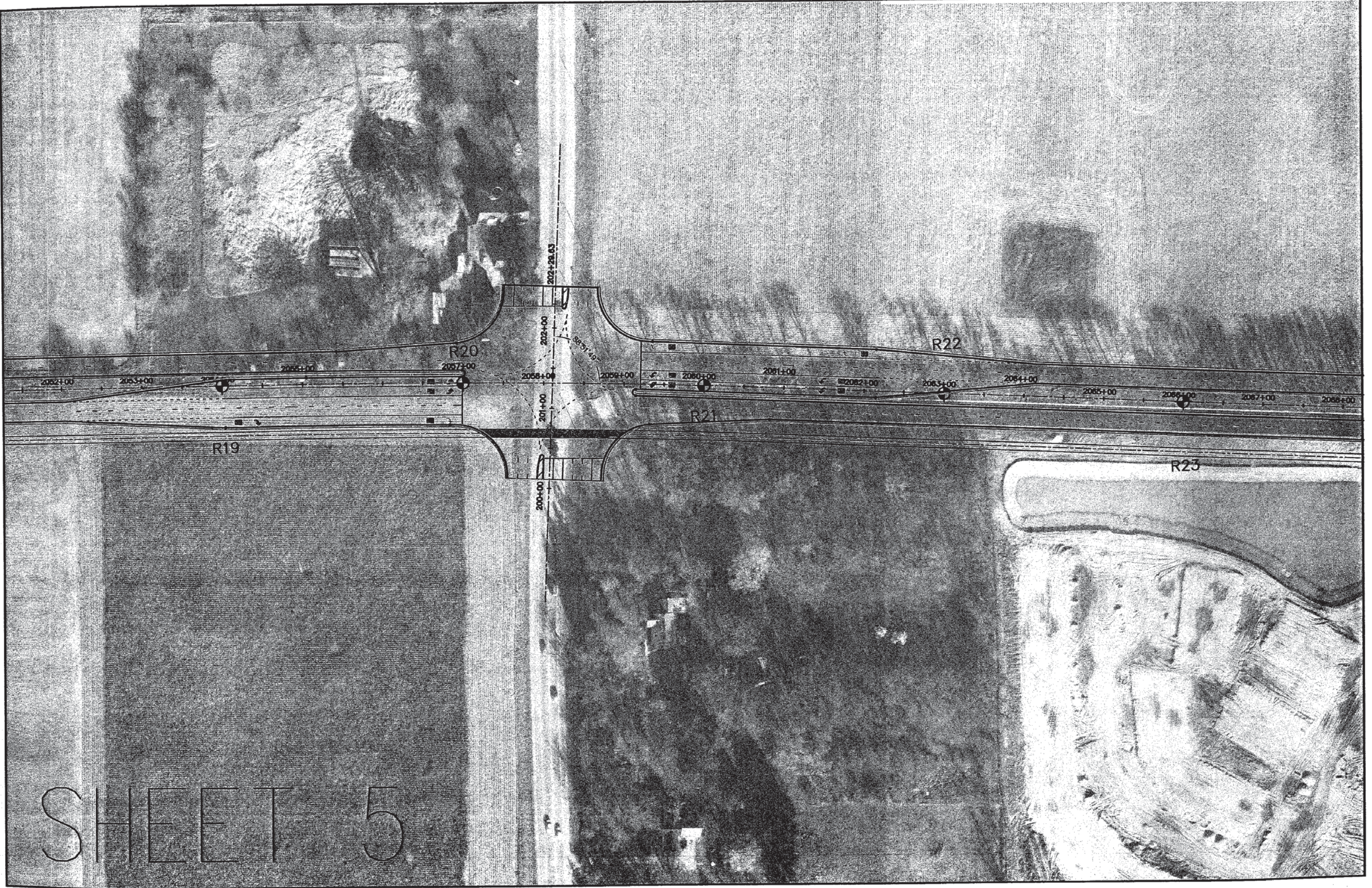
2035+00 2036+00 2037+00 2038+00 2039+00 2040+00 2041+00 2042+00 2043+00 2044+00 2045+00 2046+00 2047+00 2048+00 2049+00 2050+00 2051+00

R13

R15

R17

SHEET 4



SHEET 5

R24

R26

R28

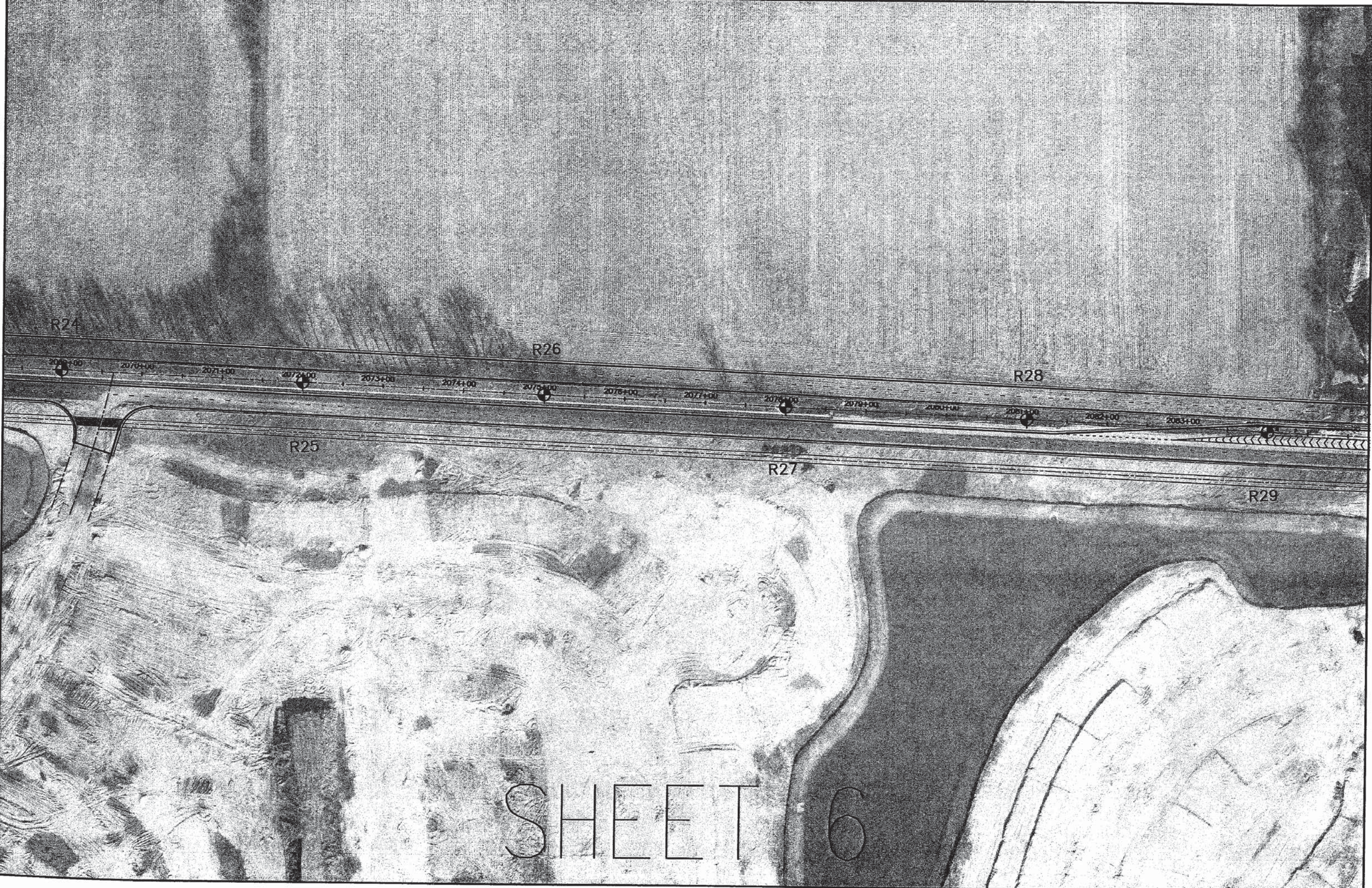
R25

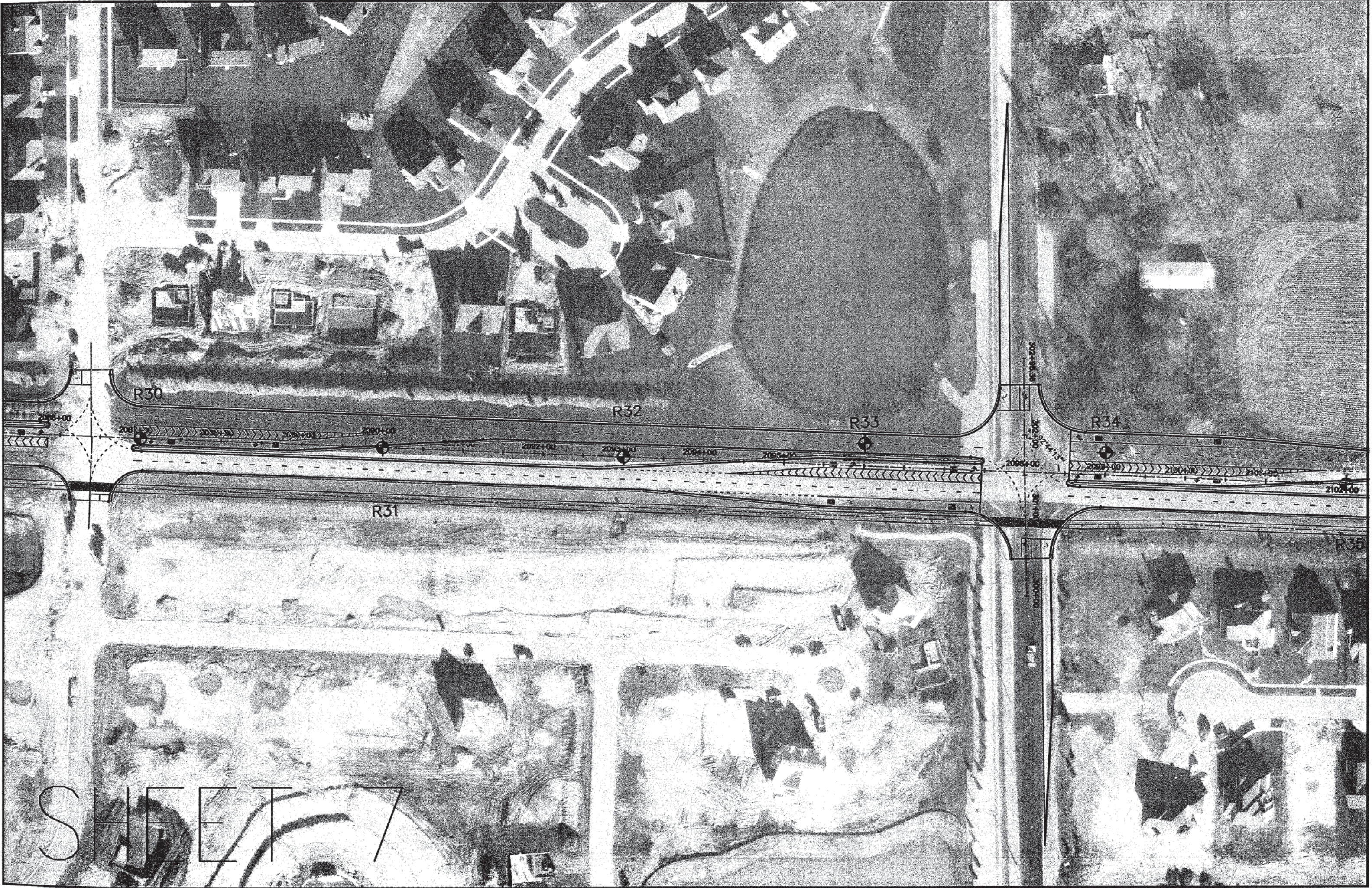
R27

R29

SHEET 6

2070+00 2070+00 2071+00 2072+00 2073+00 2074+00 2075+00 2076+00 2077+00 2078+00 2079+00 2080+00 2081+00 2082+00 2083+00





R30

R32

R33

R34

R31

R35

2086+00

2087+50

2090+00

2092+00

2093+00

2094+00

2095+00

202+00.00

202+00.00

2086+00

209+00

200+00

200+00

200+00

200+00

200+00

200+00

200+00

2087+00

2090+00

2095+00

2102+00

SHEET 7



R36

R38

R40

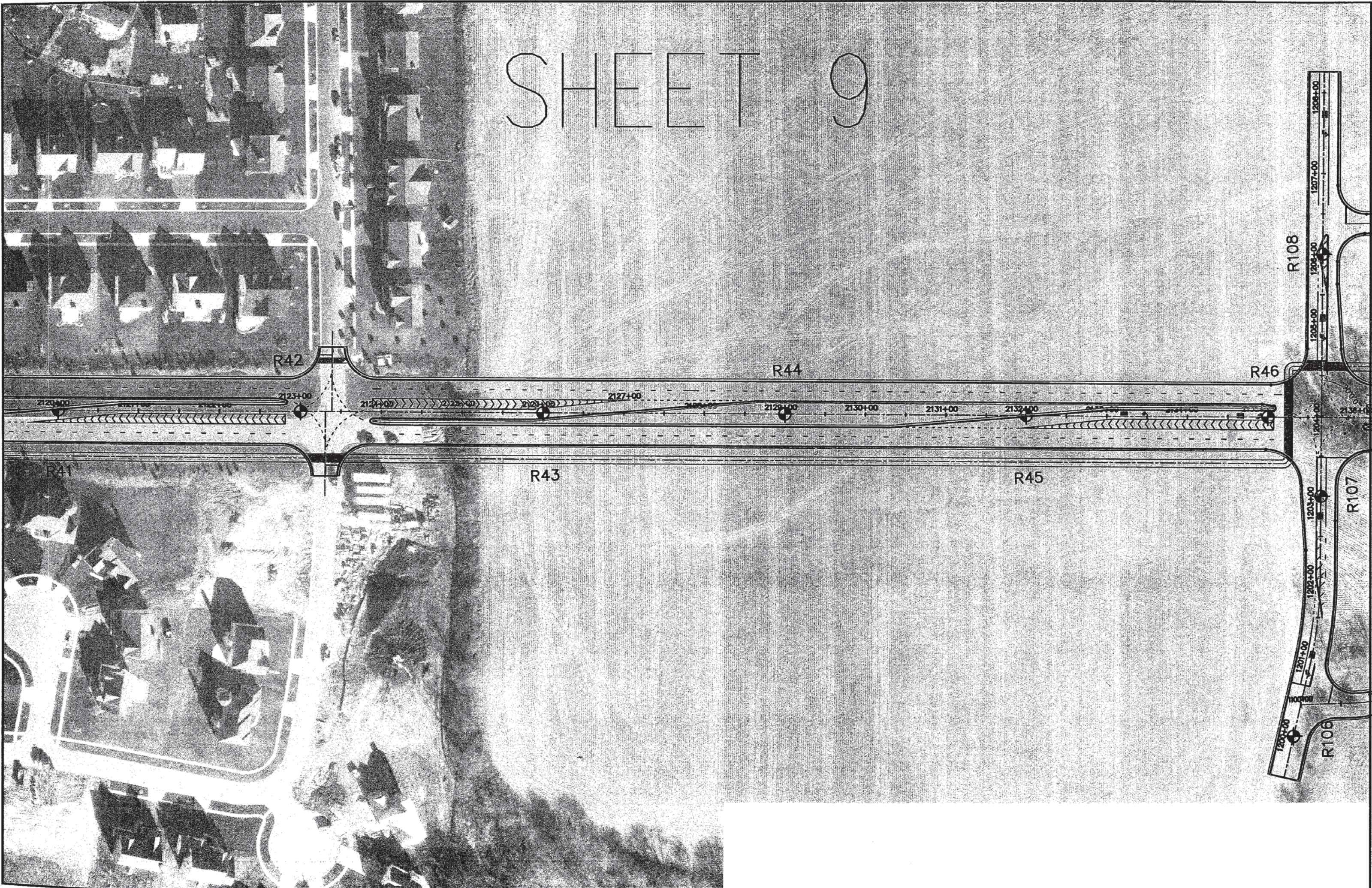
2103+00 2104+00 2105+00 2106+00 2107+00 2108+00 2109+00 2110+00 2111+00 2112+00 2113+00 2114+00 2115+00 2116+00 2117+00 2118+00 2119+00

R37

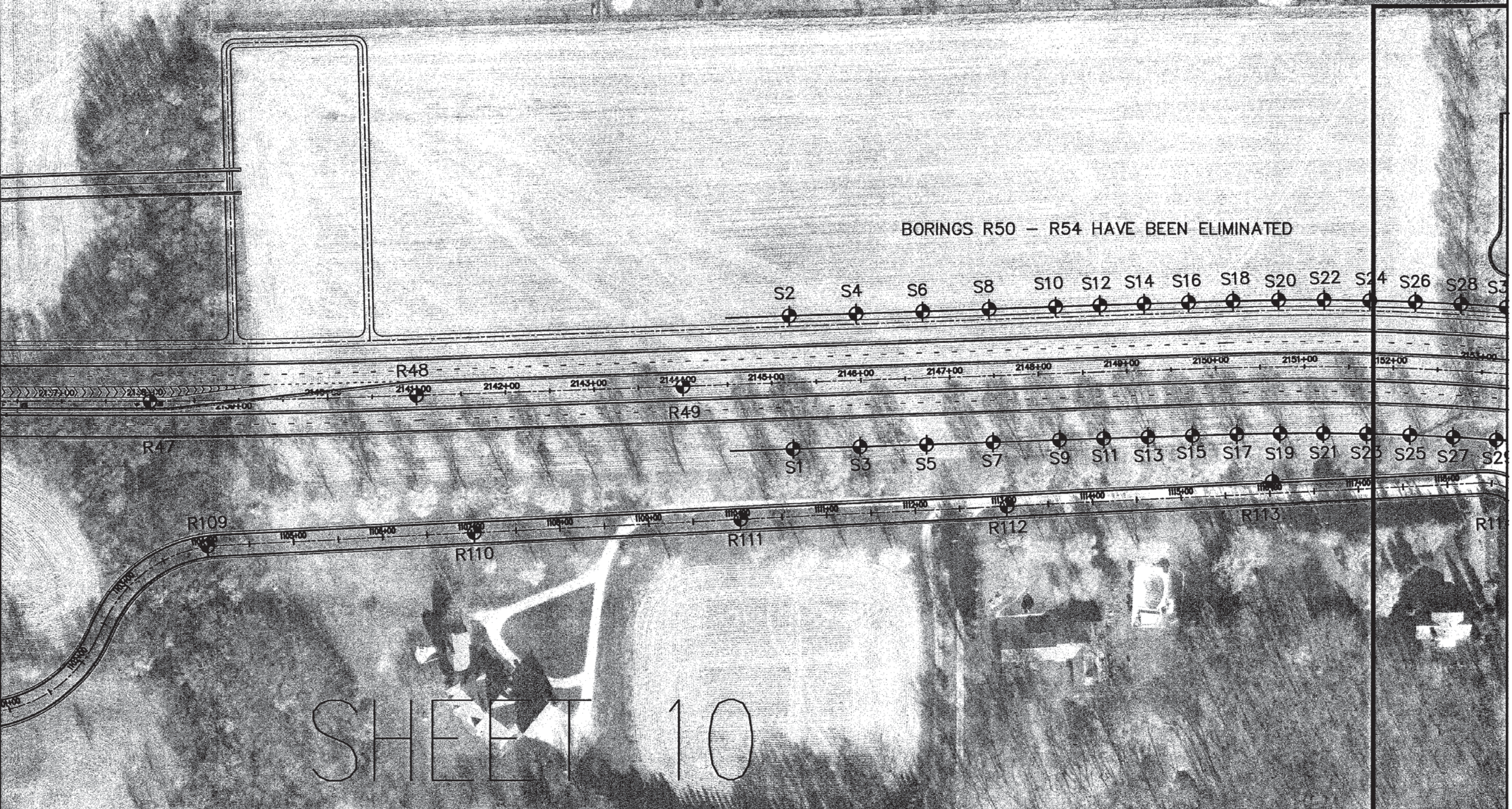
R39

SHEET 8

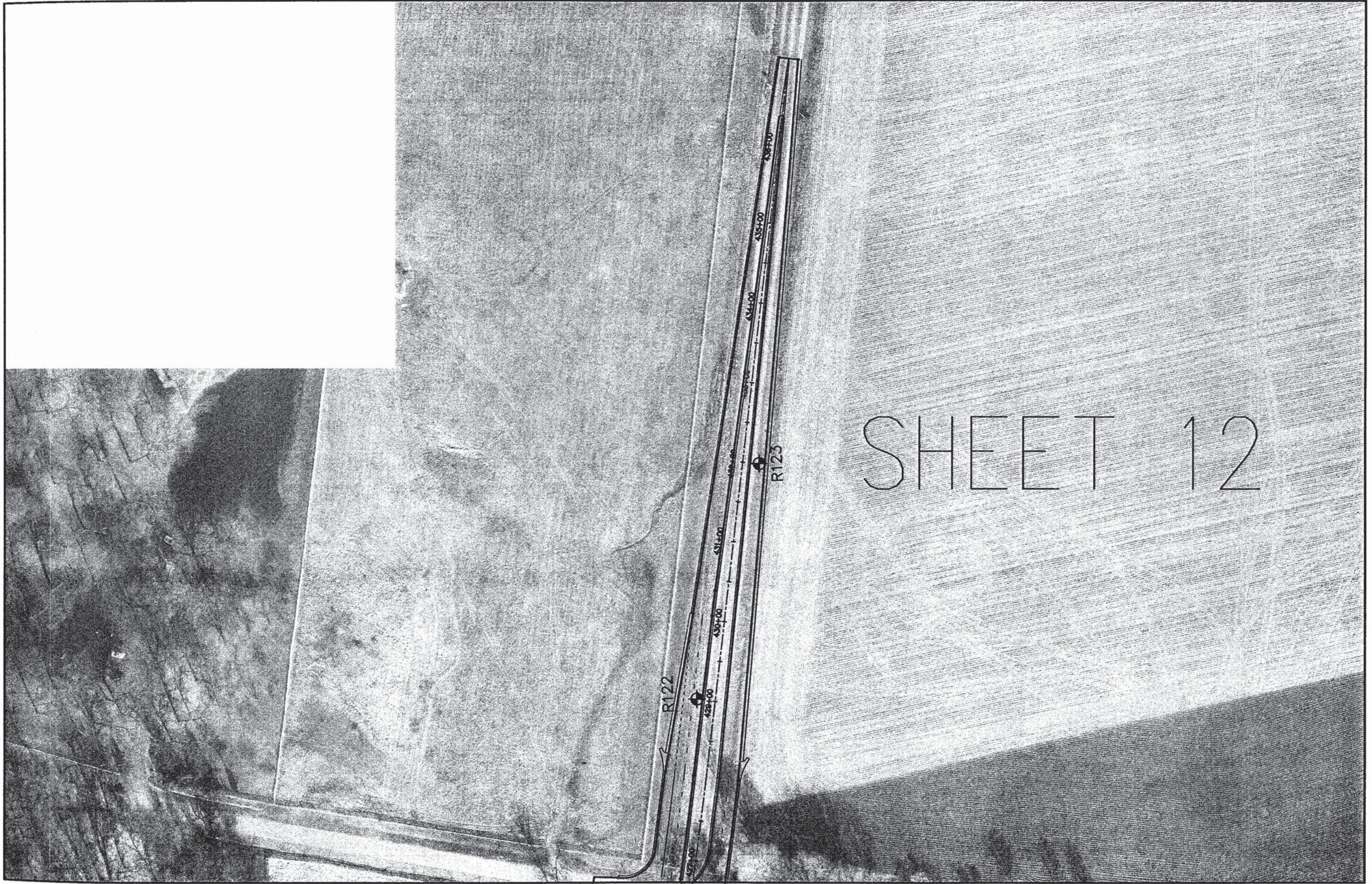
SHEET 9



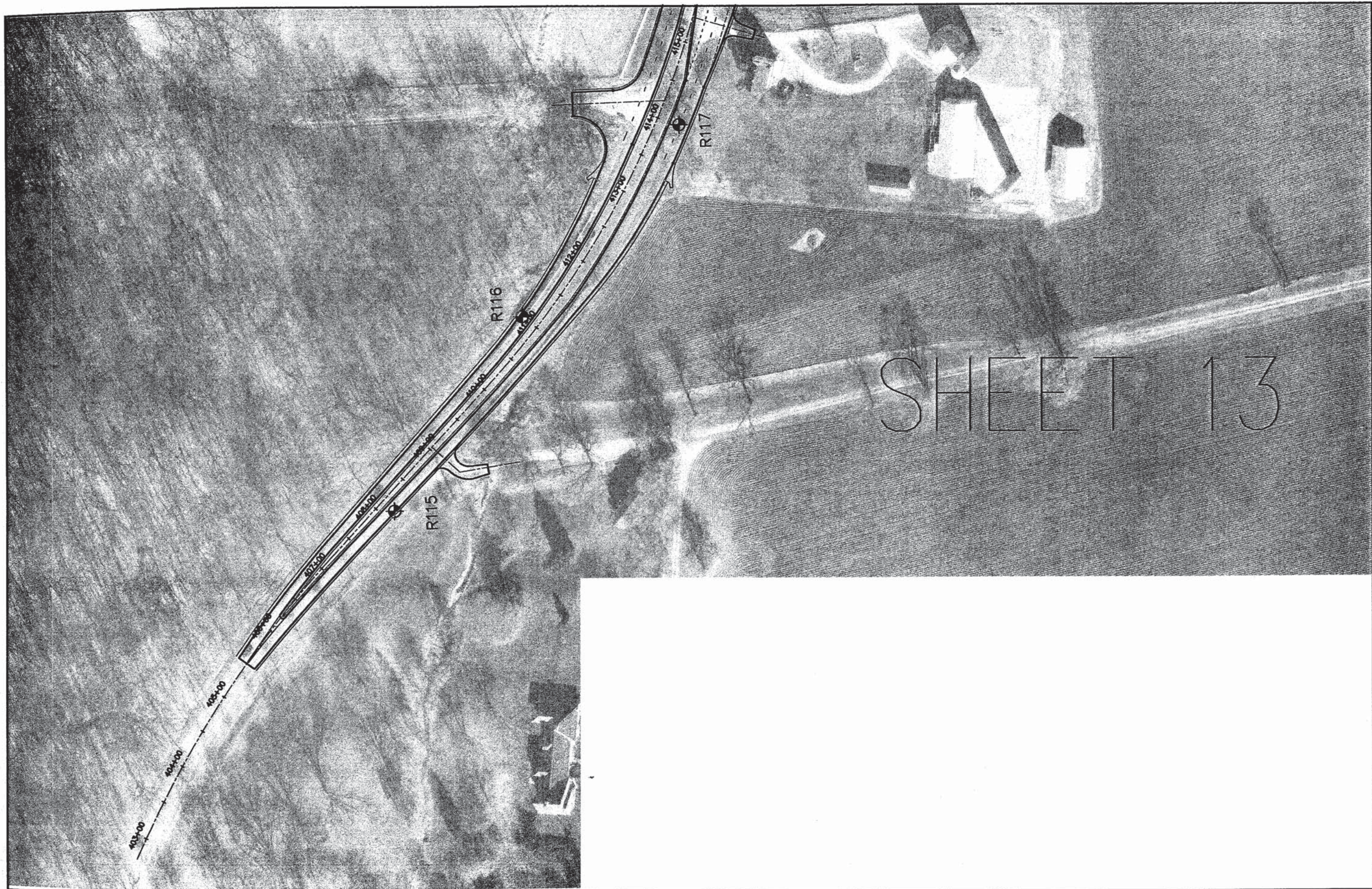
BORINGS R50 - R54 HAVE BEEN ELIMINATED



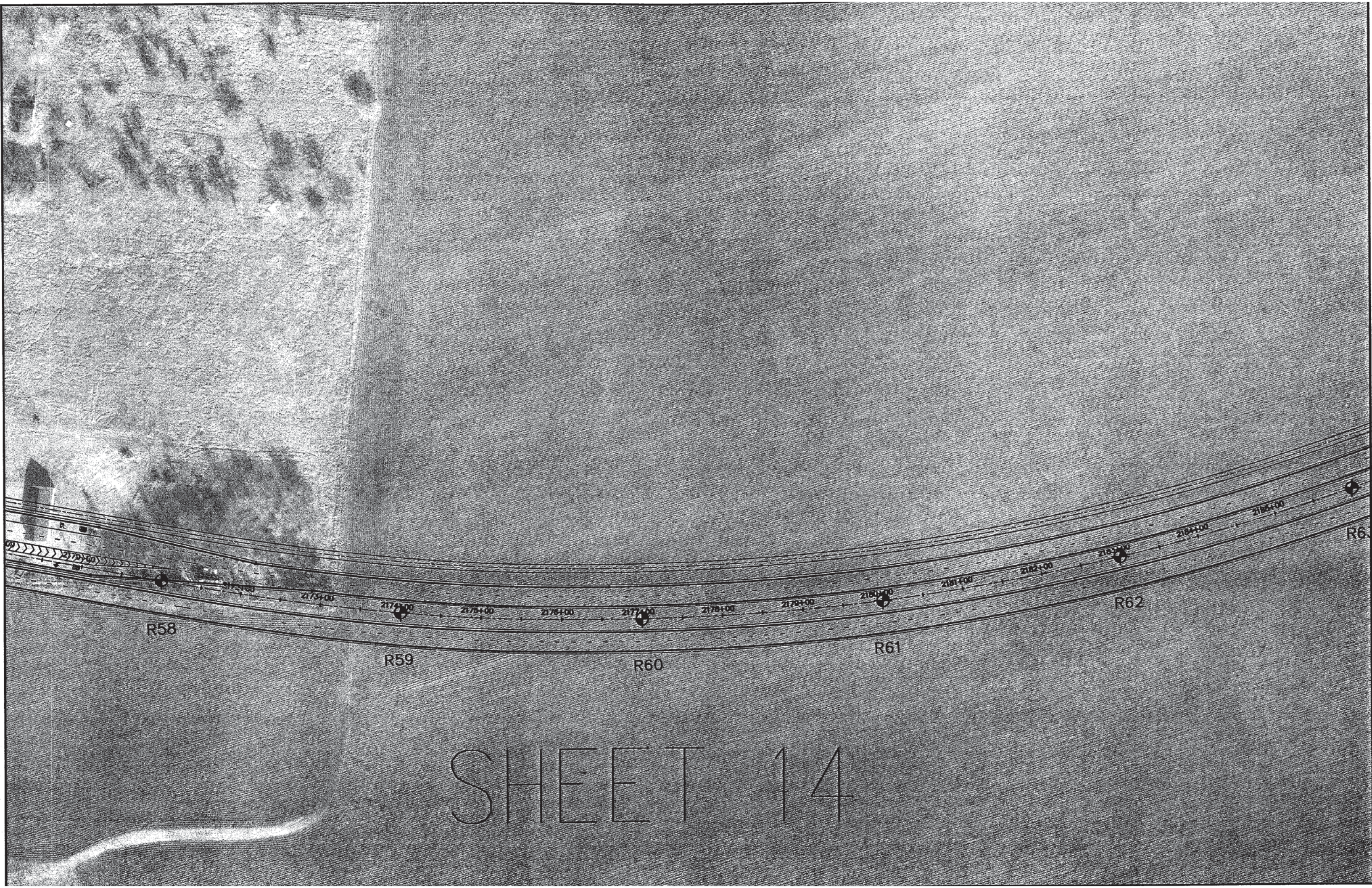
SHEET 10



SHEET 12



SHEET 13



R58

R59

R60

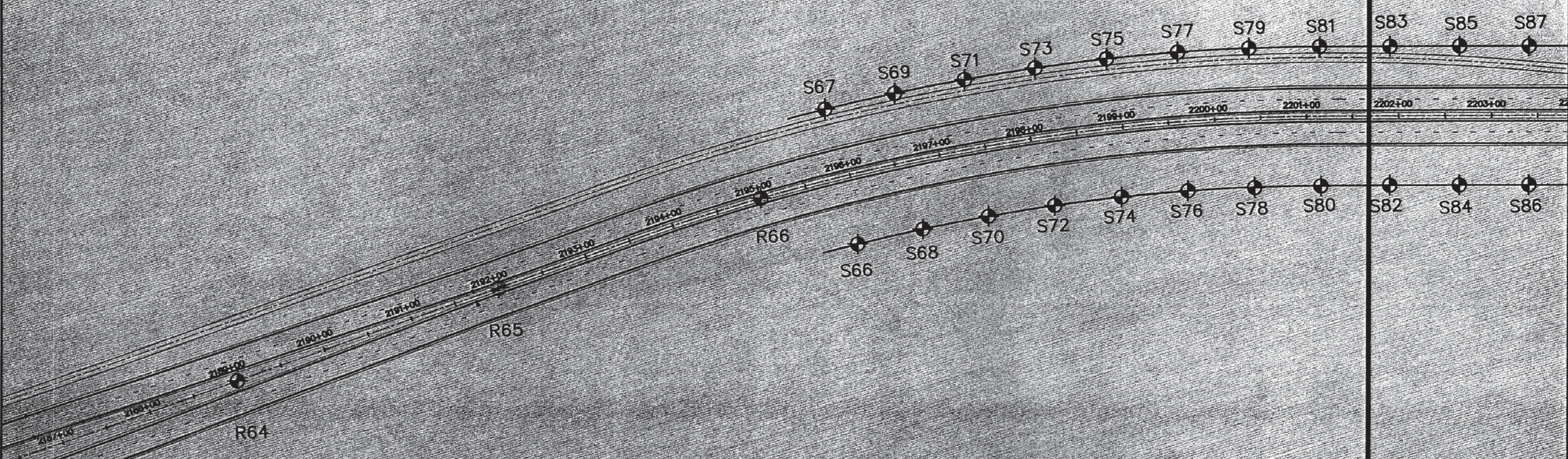
R61

R62

R6

SHEET 14

BORINGS R67 - R74 & R77 - R78 HAVE BEEN ELIMINATED



SHEET 15

BORINGS R67 - R74 & R77 - R78 HAVE BEEN ELIMINATED



SHEET 16

R127

R125

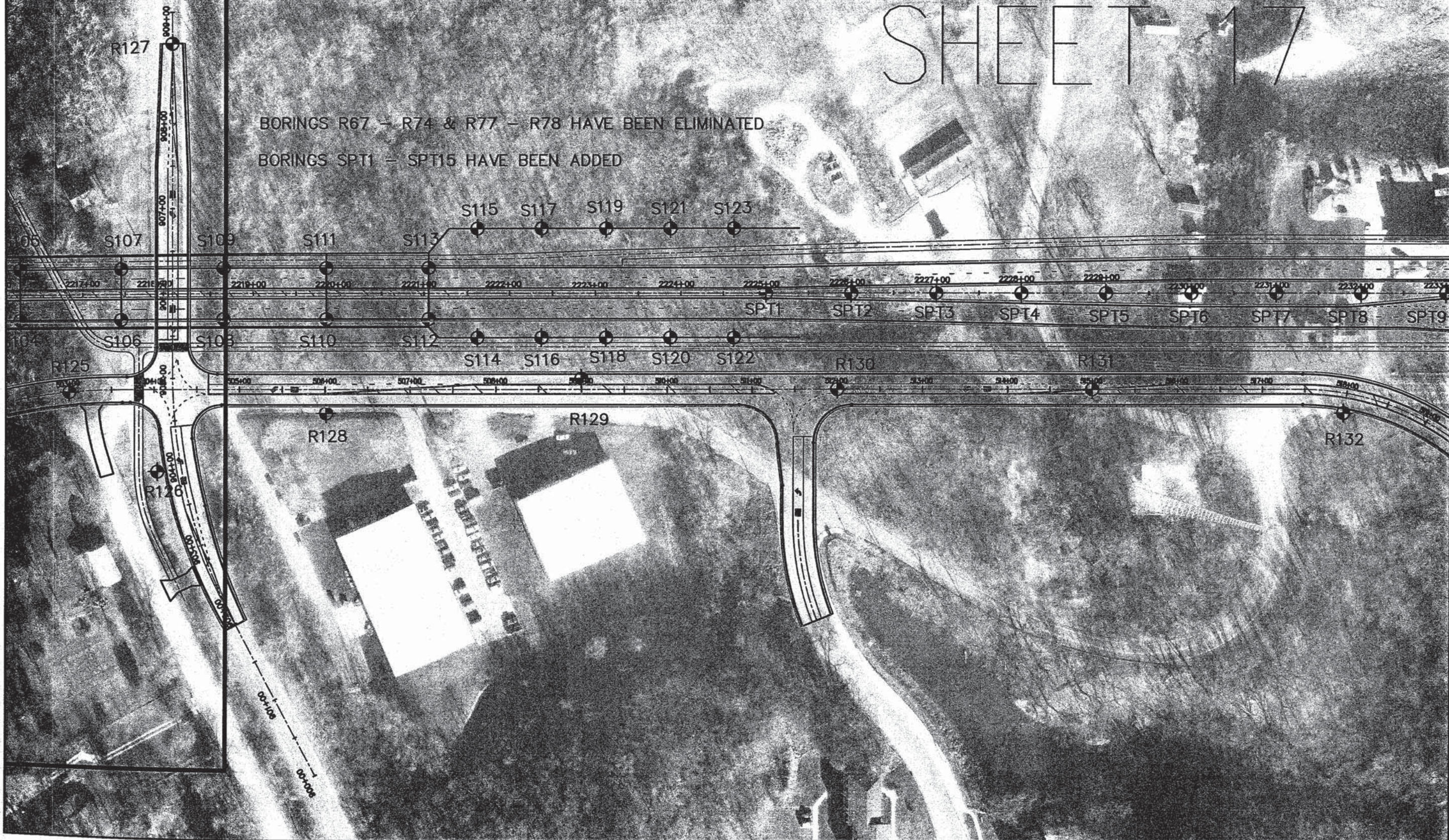
R124

R126

SHEET 17

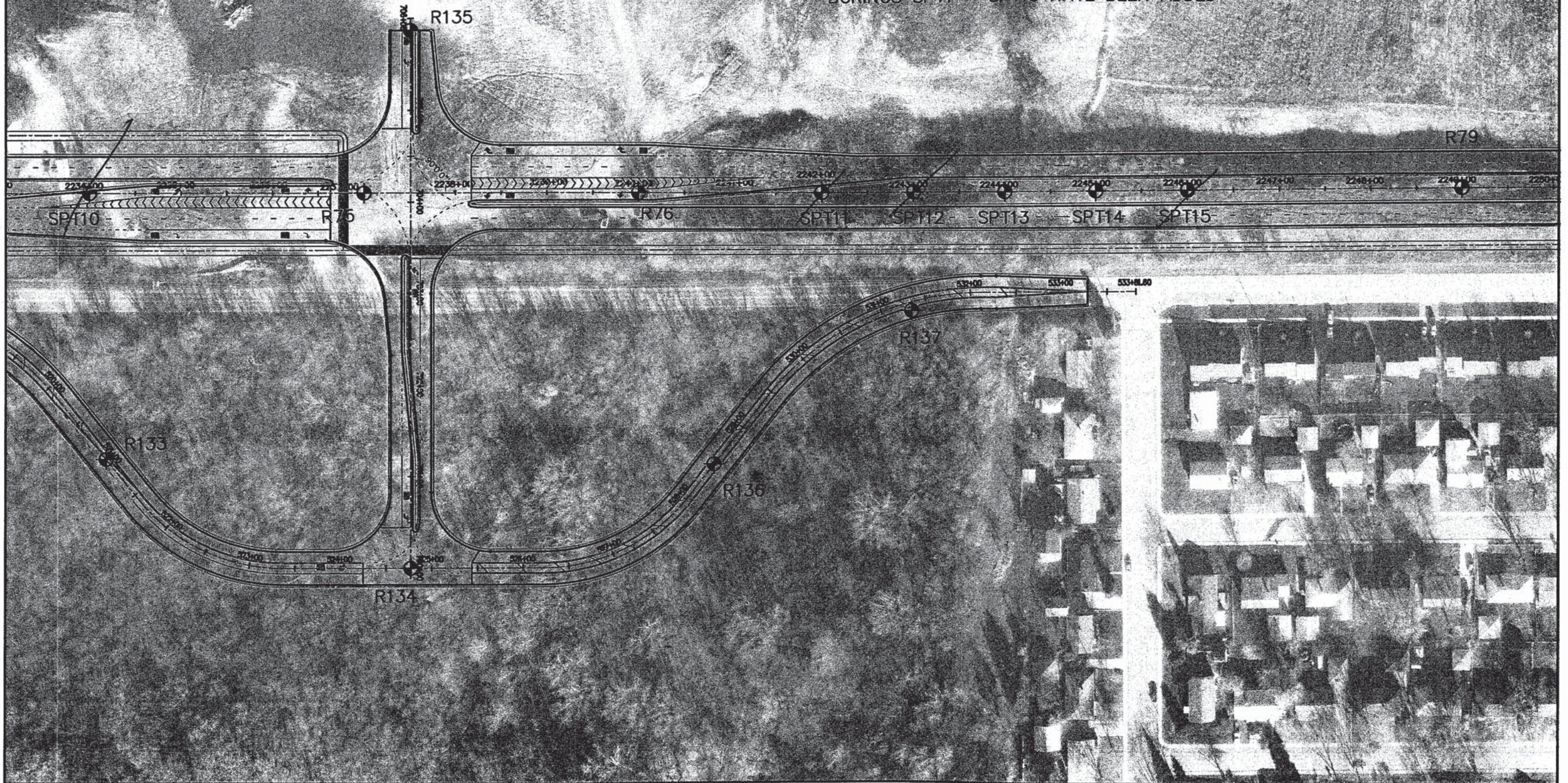
BORINGS R67 - R74 & R77 - R78 HAVE BEEN ELIMINATED

BORINGS SPT1 - SPT15 HAVE BEEN ADDED

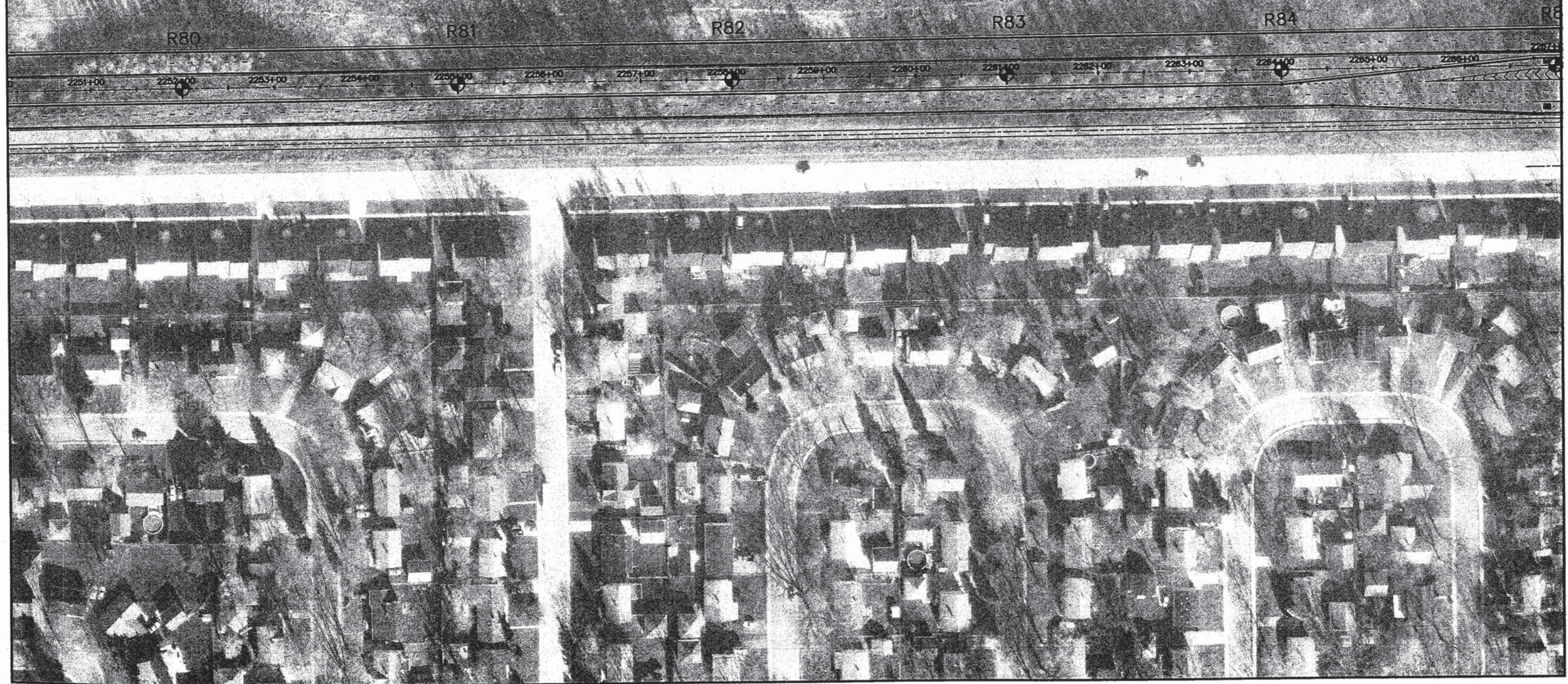


SHEET 18

BORINGS R67 - R74 & R77 - R78 HAVE BEEN ELIMINATED
BORINGS SPT1 - SPT15 HAVE BEEN ADDED

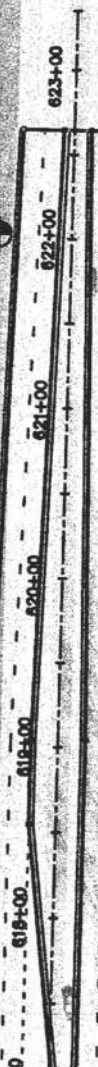


SHEET 19



SHEET 20

R144



R143

SHEET 21

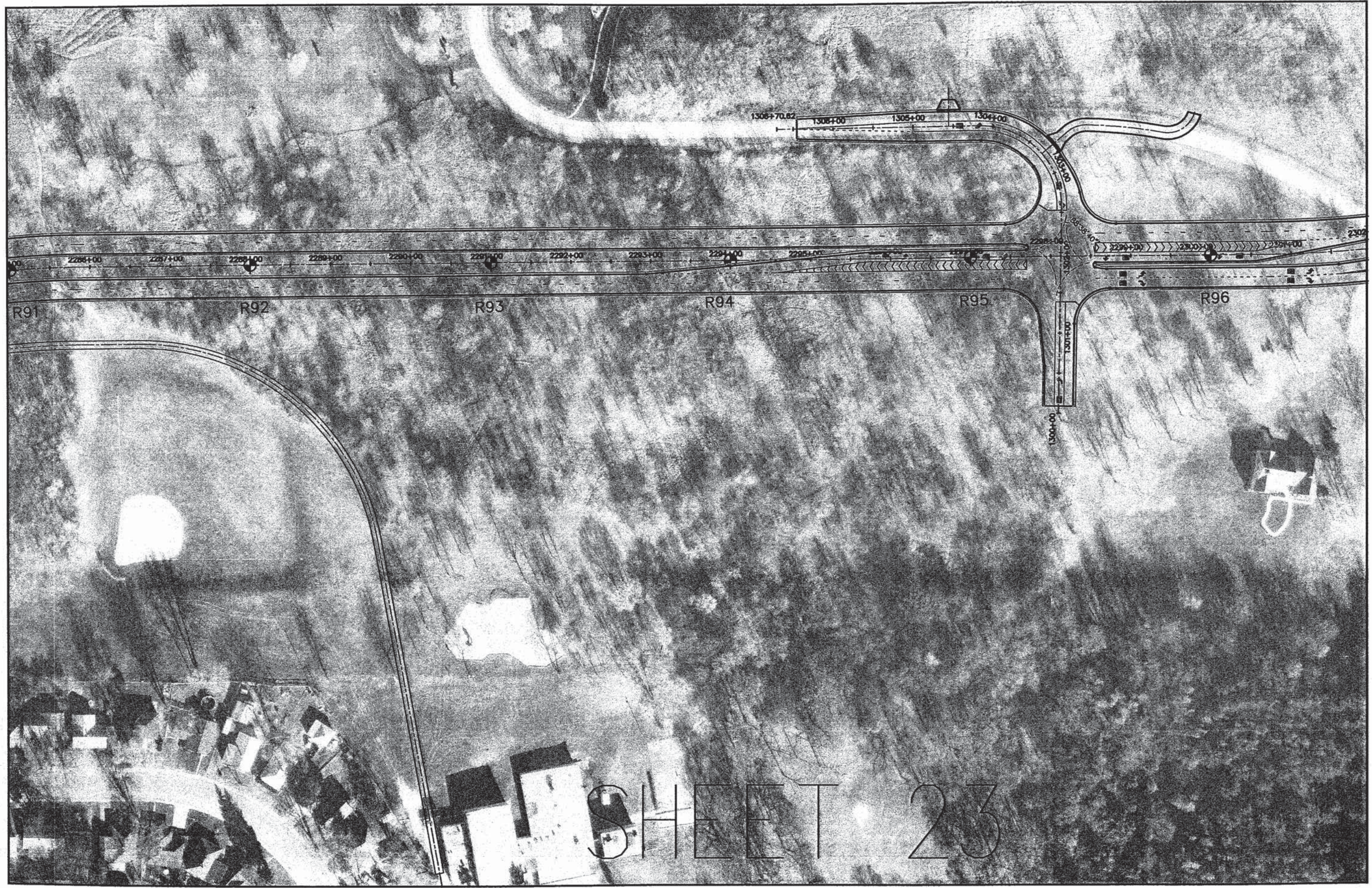




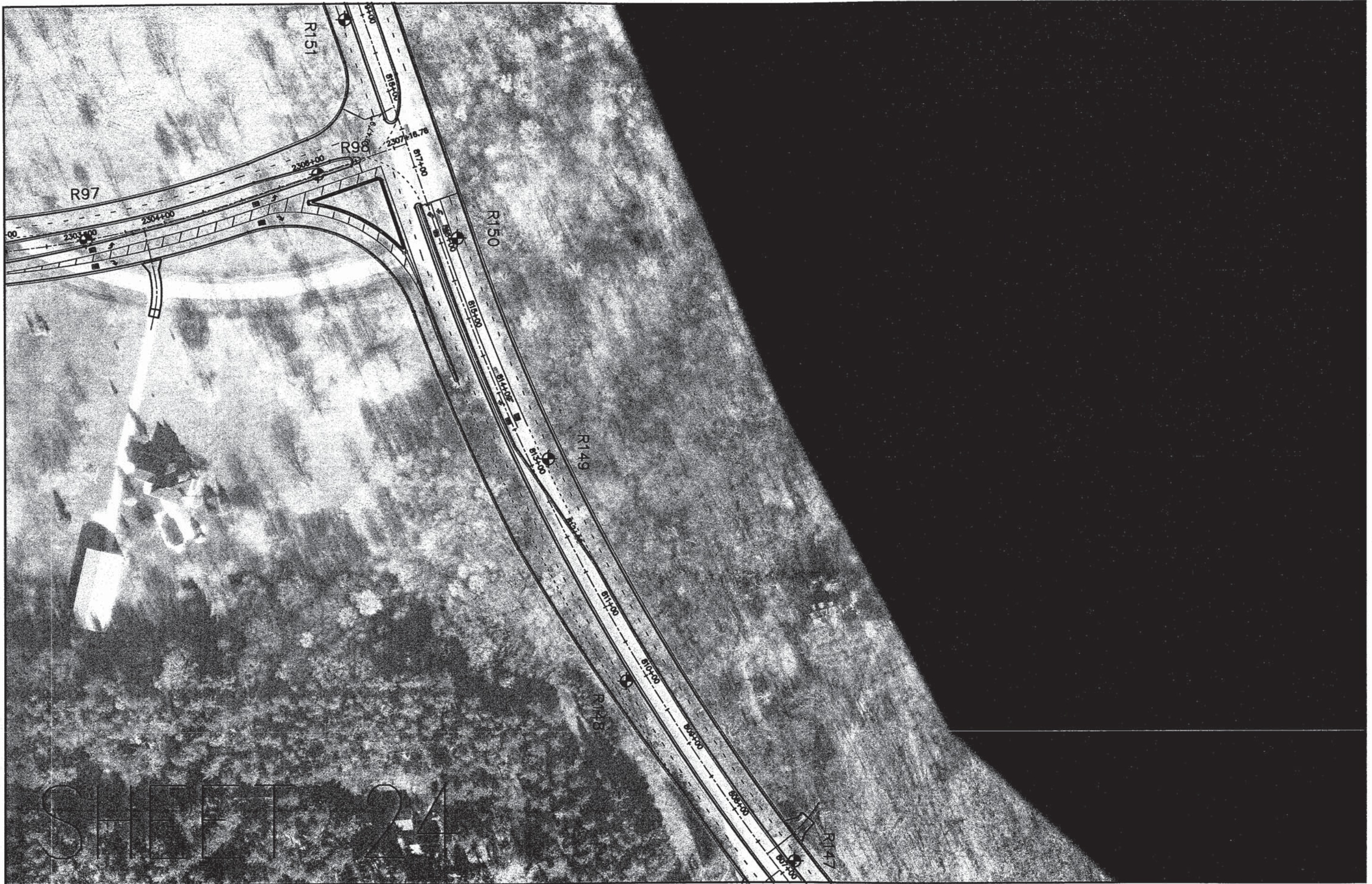
BORINGS R87 - R90 HAVE BEEN ELIMINATED
BORINGS SPT16 - SPT26 HAVE BEEN ADDED

SHEET 22

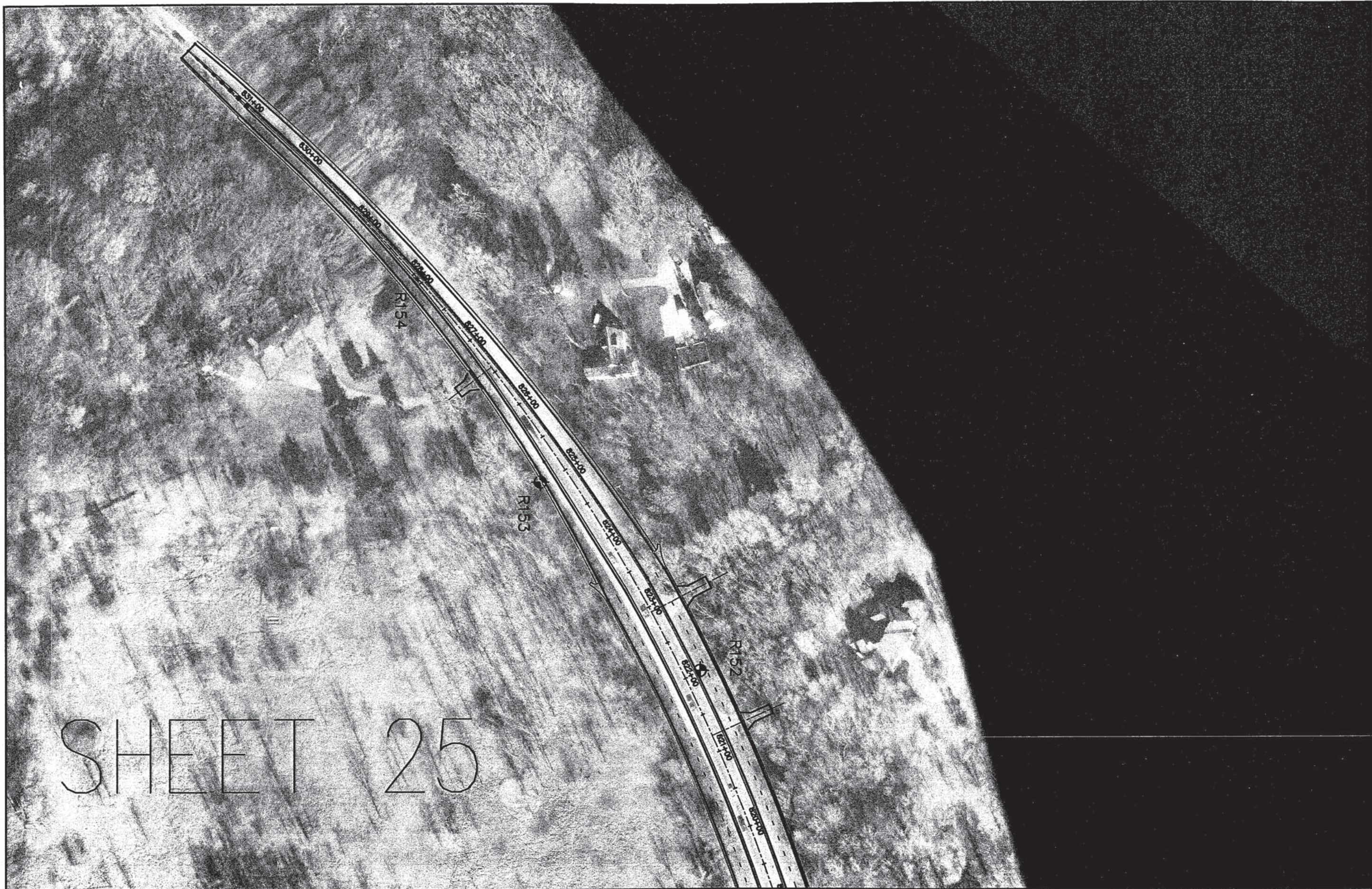
Remove SPT16 thru SPT 26 per EF & SR/3/7/05 email → Roadway borings RD-87 To 90 - will be added back



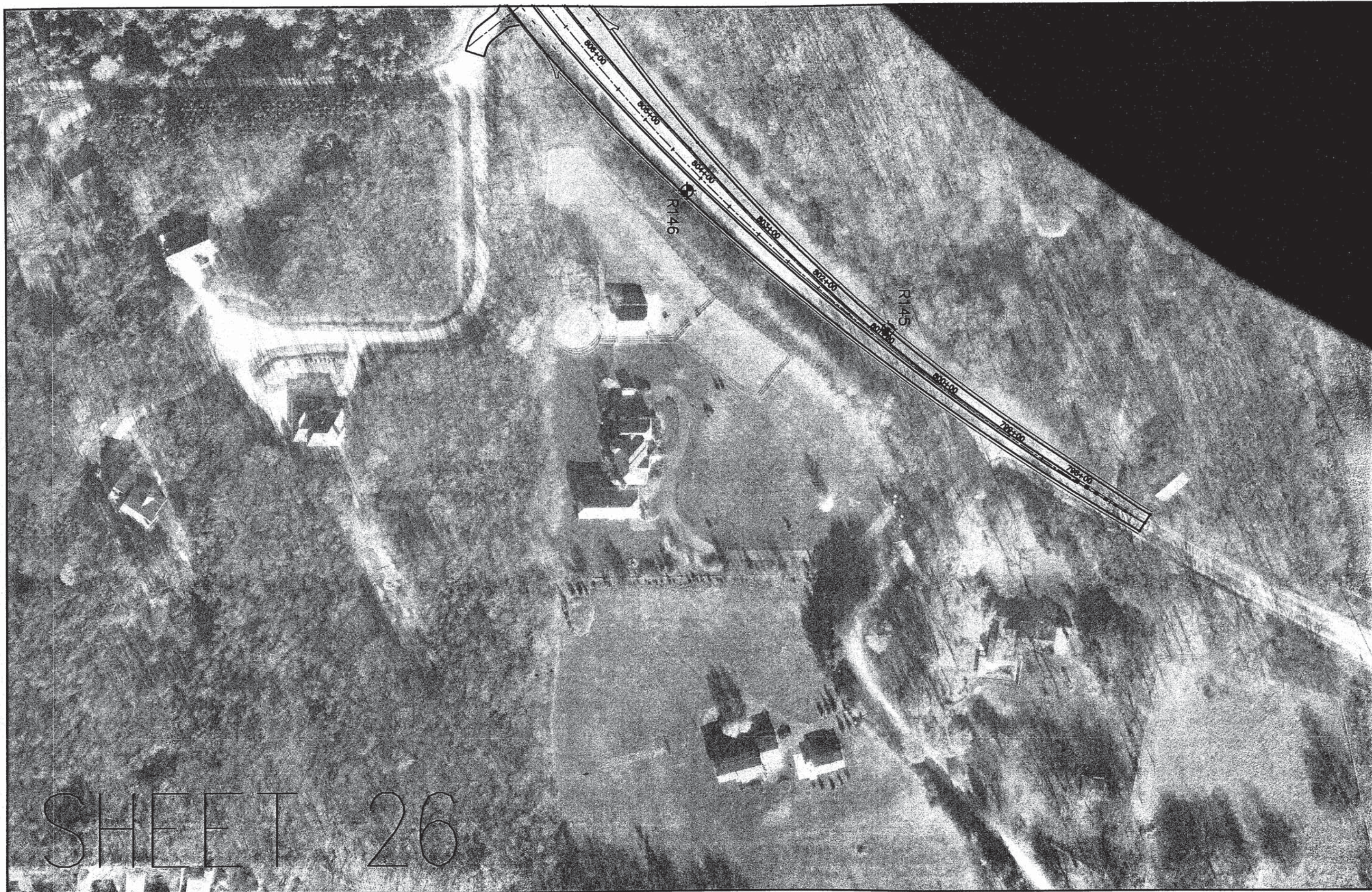
SHEET 23



SHEET 24

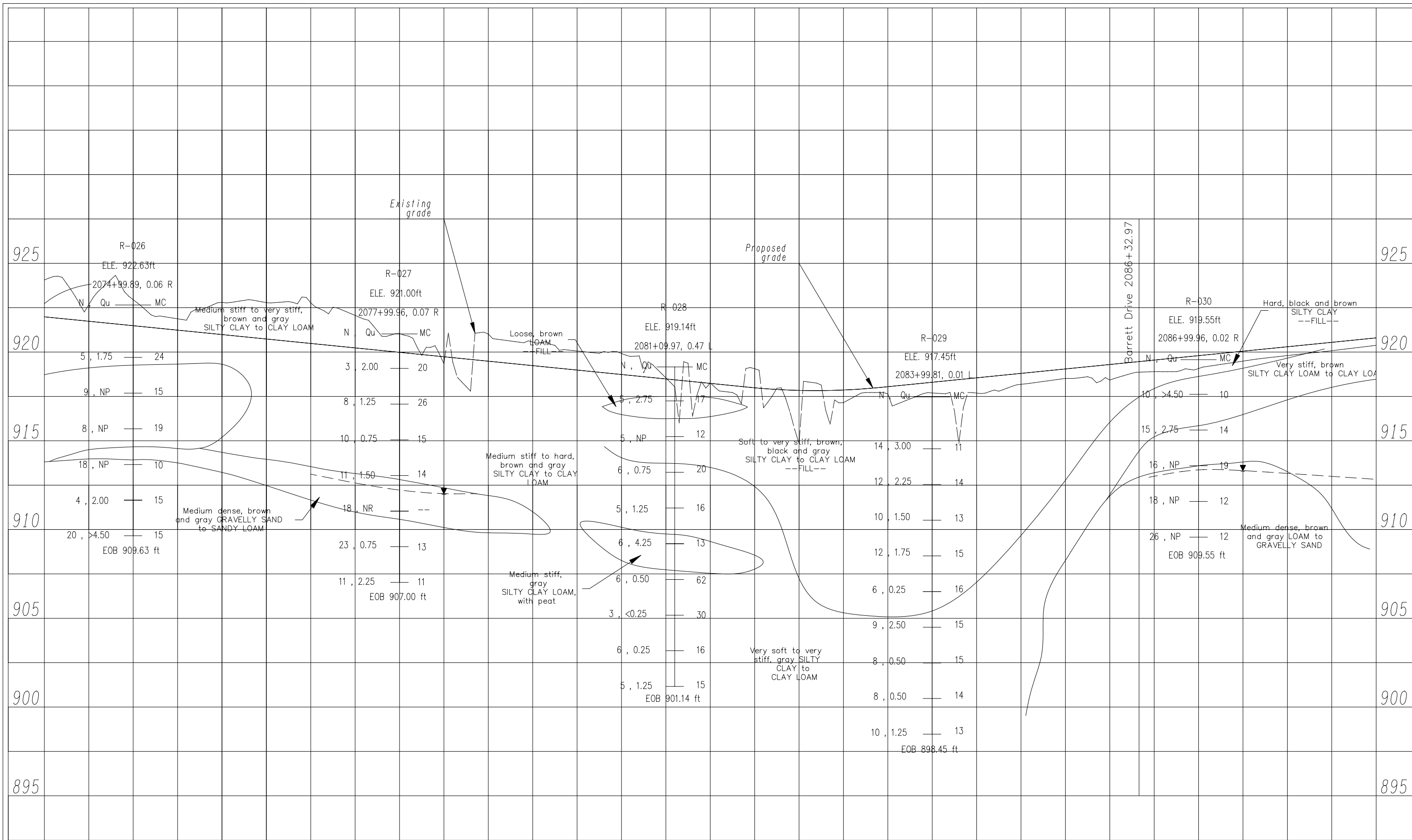


SHEET 25

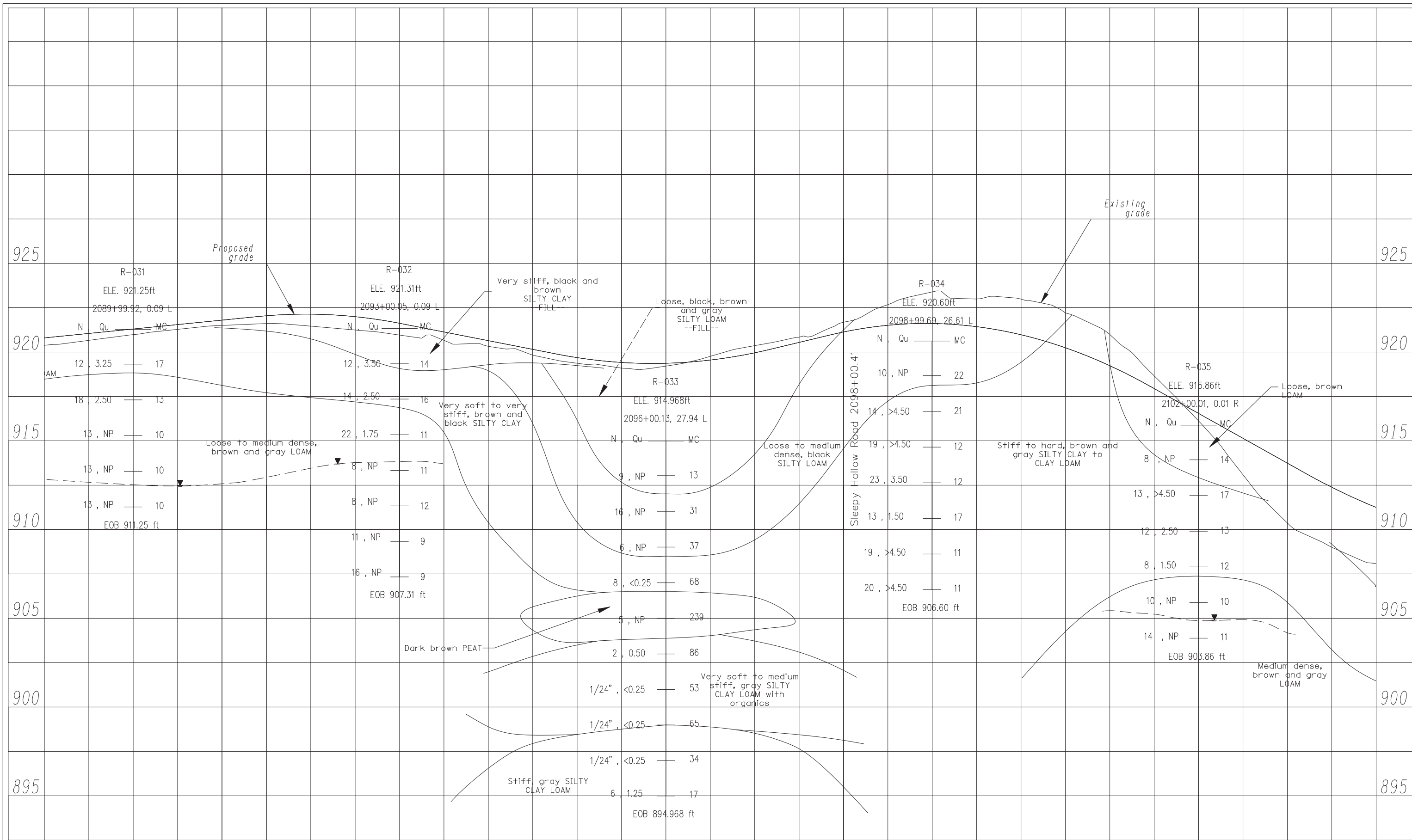


SHEET 26

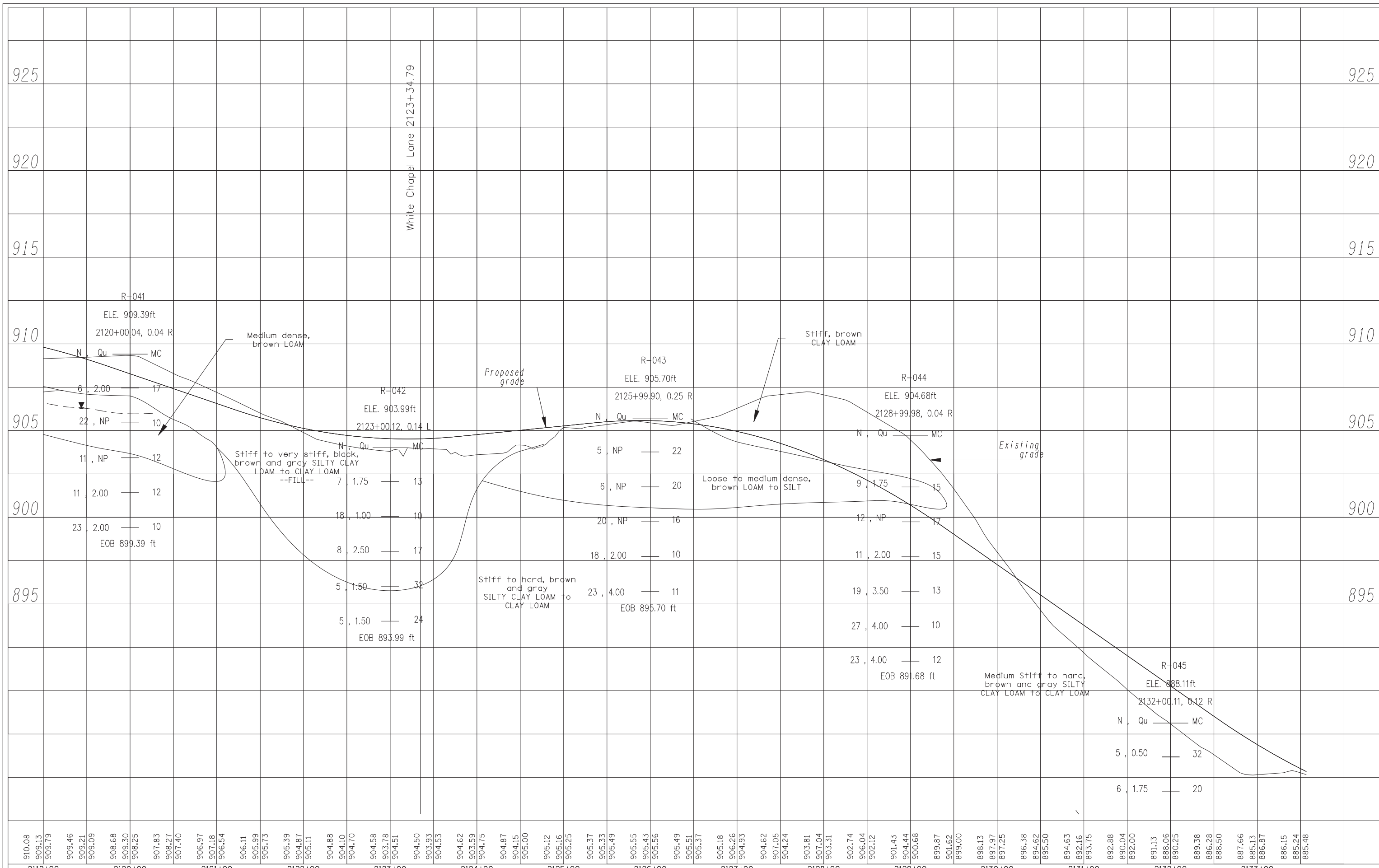
APPENDIX E: Soil Profiles



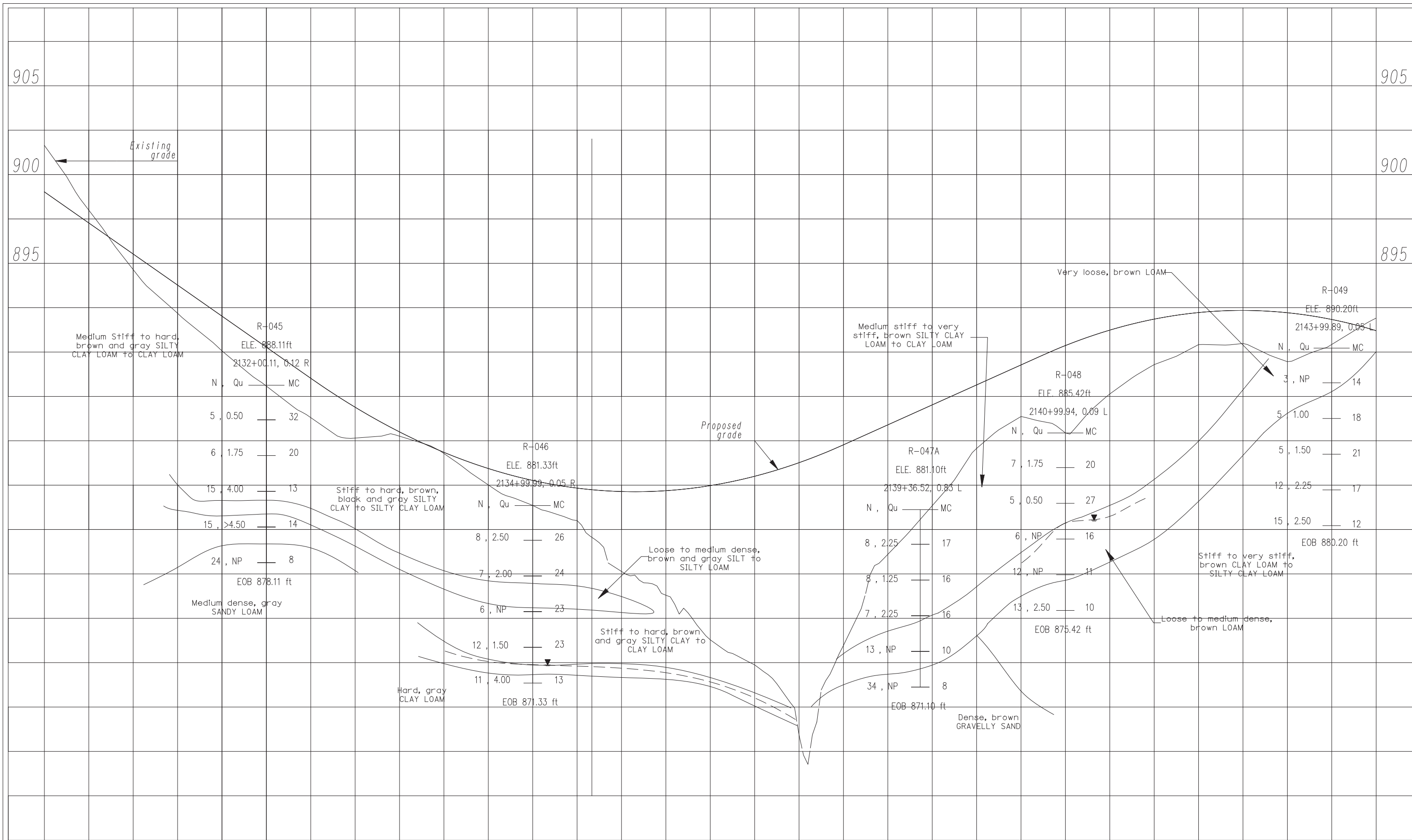
922.09	924.04	921.96	921.84	922.65	921.71	921.59	922.93	921.46	921.34	921.85	921.21	921.09	922.77	920.96	920.84	922.16	920.71	920.59	922.75	920.46	920.34	922.04	920.21	920.09	921.02	919.96	919.84	919.32	919.71	919.59	920.99	919.46	919.34	920.54	919.21	919.09	920.04	918.96	918.84	919.90	918.71	918.59	918.52	918.46	918.34	918.24	918.21	918.09	919.04	917.96	917.87	914.82	917.82	917.81	917.13	917.84	917.91	917.62	918.03	918.15	917.67	918.28	918.40	917.67	918.53	918.65	918.16	918.78	918.90	918.49	919.03	919.15	918.40	919.28	919.40	918.88	919.53	919.65	919.05	919.78	919.90	919.47	920.03	920.15	919.78	920.28	920.40	920.05	920.53	920.65	920.36	920.78
2074+00	2075+00	2076+00	2077+00	2078+00	2079+00	2080+00	2081+00	2082+00	2083+00	2084+00	2085+00	2086+00	2087+00	2088+00	2089+00	TOTAL SHEETS																																																																												
USER NAME =		DESIGNED -	REVISÉD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION														SECTION		TOTAL SHEETS	SHEET NO.																																																																							
PLOT SCALE =		CHECKED -	REVISÉD -	SCALE: 1"=50'																37	6																																																																							
PLOT DATE =		DATE -	REVISÉD -	ILLINOIS																																																																																								



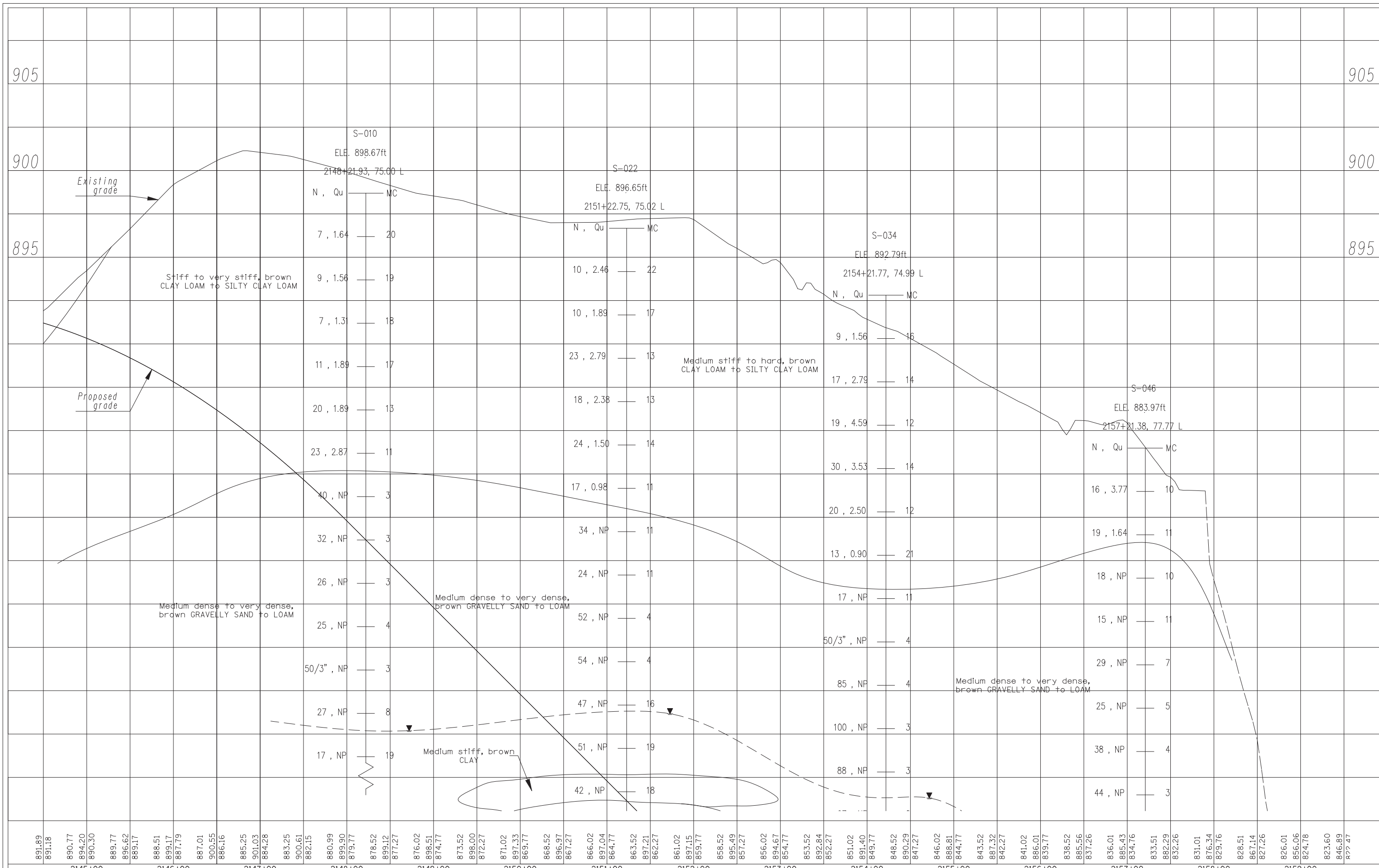
2089+00	2090+00	2091+00	2092+00	2093+00	2094+00	2095+00	2096+00	2097+00	2098+00	2099+00	2100+00	2101+00	2102+00	2103+00	2104+00																																																																														
920.65	920.36	920.78	920.90	920.64	921.03	921.15	920.96	921.28	921.40	921.26	921.53	921.65	921.48	921.78	921.90	921.59	922.02	922.10	921.44	922.11	922.07	921.22	921.97	921.81	920.94	921.60	921.35	920.64	921.11	920.87	920.30	920.62	920.38	919.80	920.13	919.89	919.35	919.67	919.50	919.08	919.39	919.34	919.19	919.35	919.41	919.74	919.53	919.70	920.34	919.94	920.22	920.82	920.52	920.82	921.66	921.11	921.33	922.65	921.49	921.57	923.37	921.59	921.53	922.97	921.41	921.22	922.96	922.96	920.95	920.62	922.18	920.22	919.75	920.97	919.21	918.60	918.64	917.92	917.22	916.10	916.52	915.82	913.07	915.12	914.42	910.35	913.72	913.02	908.98	912.36	911.76	908.06	911.22
USER NAME -			DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SCALE: 1"=50' ILLINOIS												SECTION		TOTAL SHEETS	SHEET NO.																																																																									
DRAWN -			REVISOR -	37													7																																																																												
PLOT SCALE -			CHECKED -	REVISED -																																																																																									
PLOT DATE			DATE -	REVISED -																																																																																									



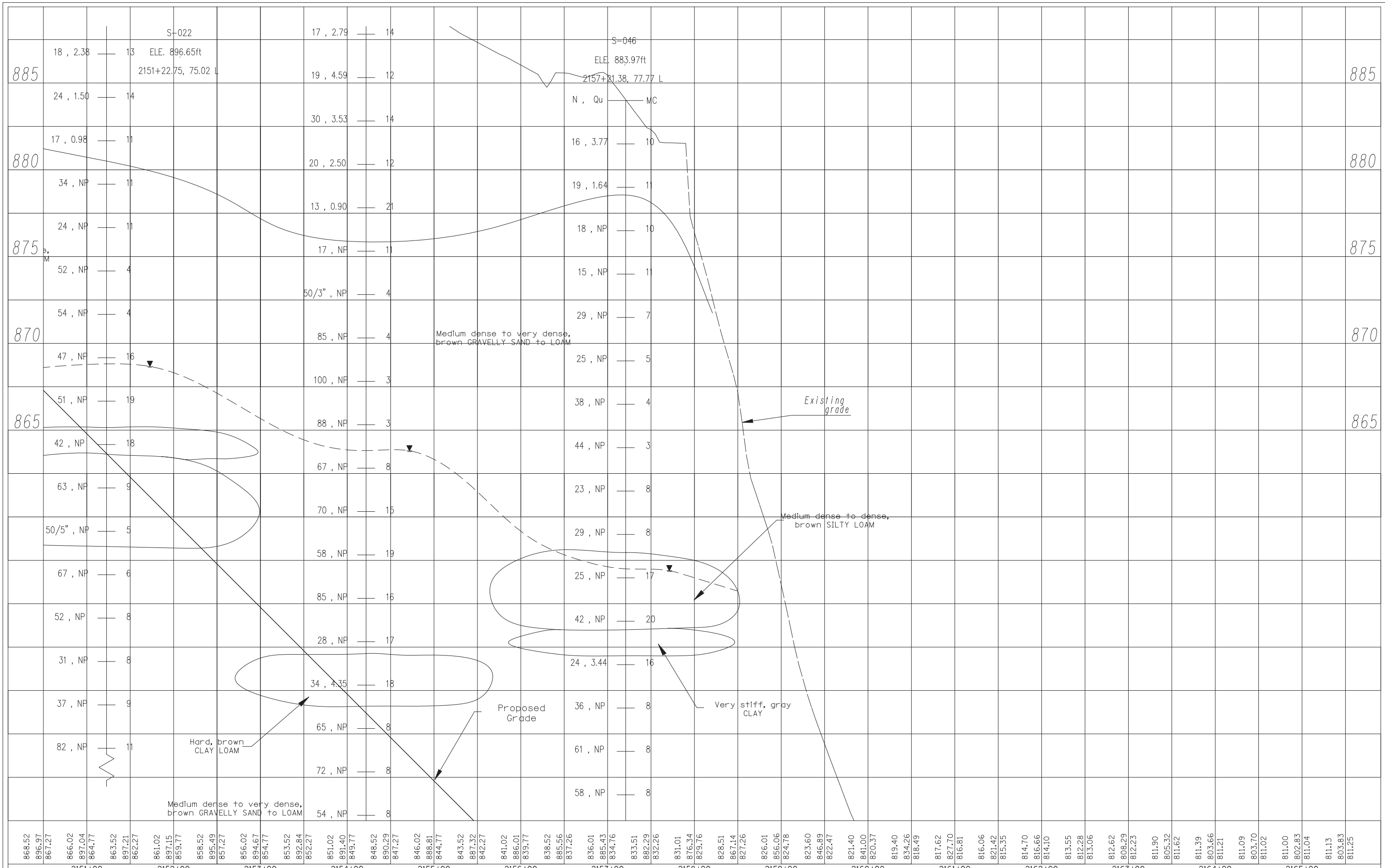
910.08	910.13	910.18	910.23	910.28	910.33	910.38	910.43	910.48	910.53	910.58	910.63	910.68	910.73	910.78	910.83	910.88	910.93	910.98	911.03	911.08	911.13	911.18	911.23	911.28	911.33	911.38	911.43	911.48	911.53	911.58	911.63	911.68	911.73	911.78	911.83	911.88	911.93	911.98	912.03	912.08	912.13	912.18	912.23	912.28	912.33	912.38	912.43	912.48	912.53	912.58	912.63	912.68	912.73	912.78	912.83	912.88	912.93	912.98	913.03	913.08	913.13	913.18	913.23	913.28	913.33	913.38	913.43	913.48	913.53	913.58	913.63	913.68	913.73	913.78	913.83	913.88	913.93	913.98	914.03	914.08	914.13	914.18	914.23	914.28	914.33	914.38	914.43	914.48	914.53	914.58	914.63	914.68	914.73	914.78	914.83	914.88	914.93	914.98	915.03	915.08	915.13	915.18	915.23	915.28	915.33	915.38	915.43	915.48	915.53	915.58	915.63	915.68	915.73	915.78	915.83	915.88	915.93	915.98	916.03	916.08	916.13	916.18	916.23	916.28	916.33	916.38	916.43	916.48	916.53	916.58	916.63	916.68	916.73	916.78	916.83	916.88	916.93	916.98	917.03	917.08	917.13	917.18	917.23	917.28	917.33	917.38	917.43	917.48	917.53	917.58	917.63	917.68	917.73	917.78	917.83	917.88	917.93	917.98	918.03	918.08	918.13	918.18	918.23	918.28	918.33	918.38	918.43	918.48	918.53	918.58	918.63	918.68	918.73	918.78	918.83	918.88	918.93	918.98	919.03	919.08	919.13	919.18	919.23	919.28	919.33	919.38	919.43	919.48	919.53	919.58	919.63	919.68	919.73	919.78	919.83	919.88	919.93	919.98	920.03	920.08	920.13	920.18	920.23	920.28	920.33	920.38	920.43	920.48	920.53	920.58	920.63	920.68	920.73	920.78	920.83	920.88	920.93	920.98	921.03	921.08	921.13	921.18	921.23	921.28	921.33	921.38	921.43	921.48	921.53	921.58	921.63	921.68	921.73	921.78	921.83	921.88	921.93	921.98	922.03	922.08	922.13	922.18	922.23	922.28	922.33	922.38	922.43	922.48	922.53	922.58	922.63	922.68	922.73	922.78	922.83	922.88	922.93	922.98	923.03	923.08	923.13	923.18	923.23	923.28	923.33	923.38	923.43	923.48	923.53	923.58	923.63	923.68	923.73	923.78	923.83	923.88	923.93	923.98	924.03	924.08	924.13	924.18	924.23	924.28	924.33	924.38	924.43	924.48	924.53	924.58	924.63	924.68	924.73	924.78	924.83	924.88	924.93	924.98	925.03	925.08	925.13	925.18	925.23	925.28	925.33	925.38	925.43	925.48	925.53	925.58	925.63	925.68	925.73	925.78	925.83	925.88	925.93	925.98	926.03	926.08	926.13	926.18	926.23	926.28	926.33	926.38	926.43	926.48	926.53	926.58	926.63	926.68	926.73	926.78	926.83	926.88	926.93	926.98	927.03	927.08	927.13	927.18	927.23	927.28	927.33	927.38	927.43	927.48	927.53	927.58	927.63	927.68	927.73	927.78	927.83	927.88	927.93	927.98	928.03	928.08	928.13	928.18	928.23	928.28	928.33	928.38	928.43	928.48	928.53	928.58	928.63	928.68	928.73	928.78	928.83	928.88	928.93	928.98	929.03	929.08	929.13	929.18	929.23	929.28	929.33	929.38	929.43	929.48	929.53	929.58	929.63	929.68	929.73	929.78	929.83	929.88	929.93	929.98	930.03	930.08	930.13	930.18	930.23	930.28	930.33	930.38	930.43	930.48	930.53	930.58	930.63	930.68	930.73	930.78	930.83	930.88	930.93	930.98	931.03	931.08	931.13	931.18	931.23	931.28	931.33	931.38	931.43	931.48	931.53	931.58	931.63	931.68	931.73	931.78	931.83	931.88	931.93	931.98	932.03	932.08	932.13	932.18	932.23	932.28	932.33	932.38	932.43	932.48	932.53	932.58	932.63	932.68	932.73	932.78	932.83	932.88	932.93	932.98	933.03	933.08	933.13	933.18	933.23	933.28	933.33	933.38	933.43	933.48	933.53	933.58	933.63	933.68	933.73	933.78	933.83	933.88	933.93	933.98	934.03	934.08	934.13	934.18	934.23	934.28	934.33	934.38	934.43	934.48	934.53	934.58	934.63	934.68	934.73	934.78	934.83	934.88	934.93	934.98	935.03	935.08	935.13	935.18	935.23	935.28	935.33	935.38	935.43	935.48	935.53	935.58	935.63	935.68	935.73	935.78	935.83	935.88	935.93	935.98	936.03	936.08	936.13	936.18	936.23	936.28	936.33	936.38	936.43	936.48	936.53	936.58	936.63	936.68	936.73	936.78	936.83	936.88	936.93	936.98	937.03	937.08	937.13	937.18	937.23	937.28	937.33	937.38	937.43	937.48	937.53	937.58	937.63	937.68	937.73	937.78	937.83	937.88	937.93	937.98	938.03	938.08	938.13	938.18	938.23	938.28	938.33	938.38	938.43	938.48	938.53	938.58	938.63	938.68	938.73	938.78	938.83	938.88	938.93	938.98	939.03	939.08	939.13	939.18	939.23	939.28	939.33	939.38	939.43	939.48	939.53	939.58	939.63	939.68	939.73	939.78	939.83	939.88	939.93	939.98	940.03	940.08	940.13	940.18	940.23	940.28	940.33	940.38	940.43	940.48	940.53	940.58	940.63	940.68	940.73	940.78	940.83	940.88	940.93	940.98	941.03	941.08	941.13	941.18	941.23	941.28	941.33	941.38	941.43	941.48	941.53	941.58	941.63	941.68	941.73	941.78	941.83	941.88	941.93	941.98	942.03	942.08	942.13	942.18	942.23	942.28	942.33	942.38	942.43	942.48	942.53	942.58	942.63	942.68	942.73	942.78	942.83	942.88	942.93	942.98	943.03	943.08	943.13	943.18	943.23	943.28	943.33	943.38	943.43	943.48	943.53	943.58	943.63	943.68	943.73	943.78	943.83	943.88	943.93	943.98	944.03	944.08	944.13	944.18	944.23	944.28	944.33	944.38	944.43	944.48	944.53	944.58	944.63	944.68	944.73	944.78	944.83	944.88	944.93	944.98	945.03	945.08	945.13	945.18	945.23	945.28	945.33	945.38	945.43	945.48	945.53	945.58	945.63	945.68	945.73	945.78	945.83	945.88	945.93	945.98	946.03	946.08	946.13	946.18	946.23	946.28	946.33	946.38	946.43	946.48	946.53	946.58	946.63	946.68	946.73	946.78	946.83	946.88	946.93	946.98	947.03	947.08	947.13	947.18	947.23	947.28	947.33	947.38	947.43	947.48	947.53	947.58	947.63	947.68	947.73	947.78	947.83	947.88	947.93	947.98	948.03	948.08	948.13	948.18	948.23	948.28	948.33	948.38	948.43	948.48	948.53	948.58	948.63	948.68	948.73	948.78	948.83	948.88	948.93	948.98	949.03	949.08	949.13	949.18	949.23	949.28	949.33	949.38	949.43	949.48	949.53	949.58	949.63	949.68	949.73	949.78	949.83	949.88	949.93	949.98	950.03	950.08	950.13	950.18	950.23	950.28	950.33	950.38	950.43	950.48	950.53	950.58	950.63	950.68	950.73	950.78	950.83	950.88	950.93	950.98	951.03	951.08	951.13	951.18	951.23	951.28	951.33	951.38	951.43	951.48	951.53	951.58	951.63	951.68	951.73	951.78	951.83	951.88	951.93	951.98	952.03	952.08	952.13	952.18	952.23	952.28	952.33	952.38	952.43	952.48	952.53	952.58	952.63	952.68	952.73	952.78	952.83	952.88	952.93	952.98	953.03	953.08	953.13	953.18	953.23	953.28	953.33	953.38	953.43	953.48	953.53	953.58	953.63	953.68	953.73	953.78	953.83	953.88	953.93	953.98	954.03	954.08	954.13	954.18	954.23	954.28	954.33	954.38	954.43	954.48	954.53	954.58	954.63	954.68	954.73	954.78	954.83	954.88	954.93
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------



899.87	901.62	899.00	898.13	897.97	897.25	896.38	894.62	895.50	894.63	892.16	893.75	892.88	890.04	892.00	891.13	888.06	890.25	889.38	886.28	888.50	887.66	885.13	886.87	886.15	885.24	885.48	884.87	884.26	884.33	883.84	882.49	883.42	883.05	881.34	882.75	882.50	880.49	882.31	882.19	877.62	882.12	882.11	876.28	882.17	882.28	873.76	882.45	882.69	872.35	882.98	883.33	868.39	883.75	884.22	873.45	884.75	885.31	878.58	885.88	886.44	881.32	887.00	887.56	884.55	888.13	888.69	886.35	889.25	889.82	885.42	890.34	890.81	887.62	891.21	891.56	889.27	891.83	892.05	890.40	892.20	892.50	890.46	892.32	892.29	889.44	892.19	892.03	890.41	891.81	891.53	891.89	891.18
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

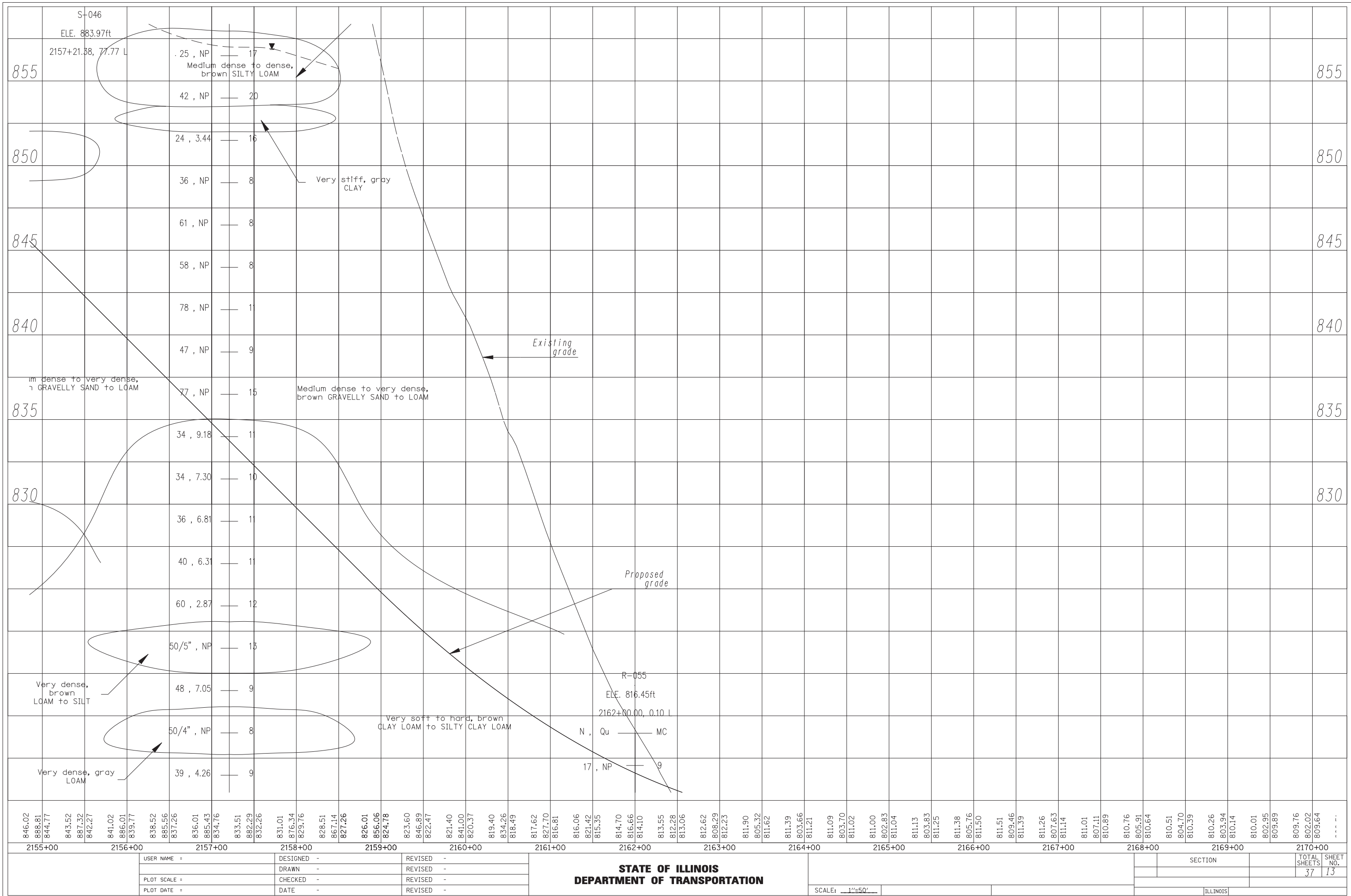


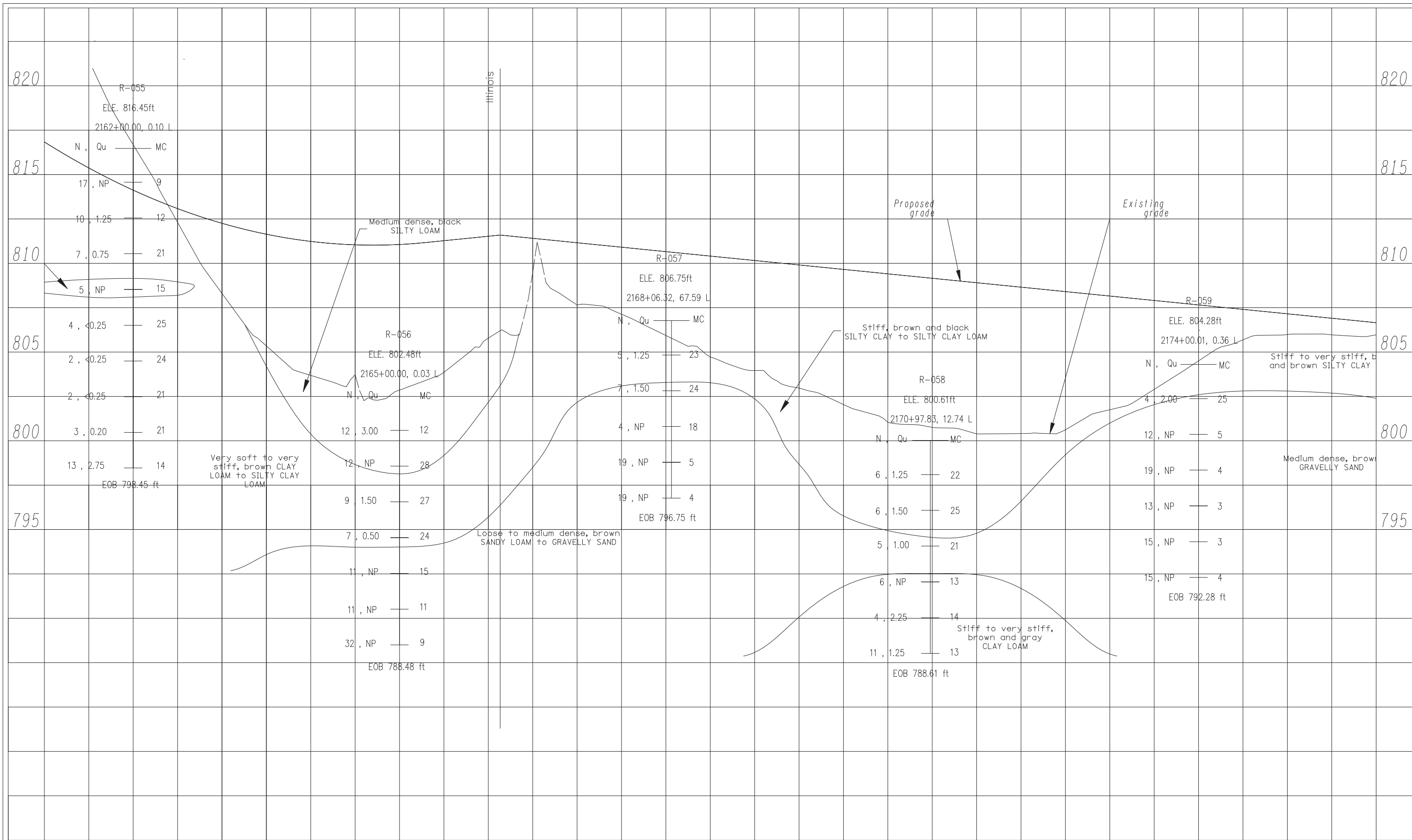
891.89	891.18	890.77	894.20	890.30	889.77	896.62	889.17	888.51	899.17	887.79	887.01	900.55	886.16	885.25	901.03	884.28	883.25	900.61	882.15	880.99	899.90	879.77	878.52	899.12	877.27	876.02	898.51	874.77	873.52	898.00	872.27	871.02	897.33	869.77	868.52	896.97	867.27	866.02	897.04	864.77	863.52	897.21	862.27	861.02	897.15	859.77	858.52	895.49	857.27	856.02	894.67	854.77	853.52	892.84	852.27	851.02	891.40	849.77	848.52	890.29	847.27	846.02	888.81	844.77	843.52	887.32	842.27	841.02	886.01	839.77	838.52	885.56	837.26	836.01	885.43	834.76	833.51	882.29	832.26	831.01	876.34	829.76	828.51	867.14	827.26	826.01	856.06	824.78	823.60	846.89	827.47
2145+00		2146+00		2147+00		2148+00		2149+00		2150+00		2151+00		2152+00		2153+00		2154+00		2155+00		2156+00		2157+00		2158+00		2159+00																																																															
USER NAME -		DESIGNED -		REVISED -		DRAWN -		REVISED -		CHECKED -		REVISED -		DATE -		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SCALE: 1"=50'		SECTION		TOTAL SHEETS		SHEET NO.																																																																	
PLOT DATE		CHECKED -		REVISED -		DATE -		REVISED -		ILLINOIS		37		11																																																																													



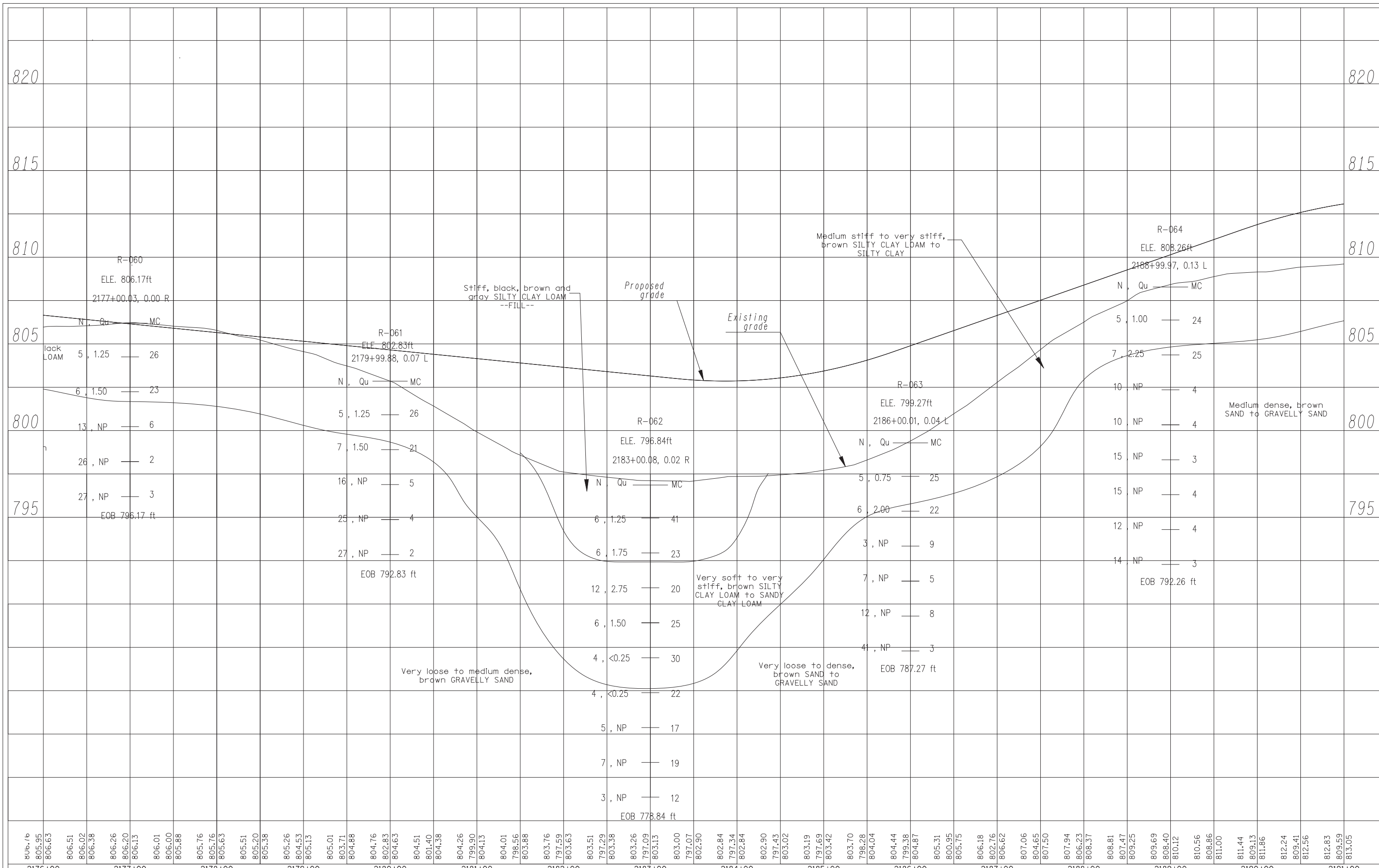
868.52	896.97	867.27	866.02	897.04	864.77	863.52	897.21	862.27	861.02	897.15	859.77	858.52	895.49	857.27	856.02	894.67	854.77	853.52	892.84	852.27	851.02	891.40	849.77	848.52	890.29	847.27	846.02	888.81	844.77	843.52	887.32	842.27	841.02	886.01	839.77	838.52	885.56	837.26	836.01	885.43	834.76	833.51	882.29	832.26	831.01	876.34	829.76	828.51	867.14	827.26	826.01	856.06	824.76	823.60	846.89	822.47	821.40	841.00	820.37	819.40	834.26	818.49	817.62	827.70	816.81	816.06	821.42	815.35	814.70	816.66	814.10	813.55	812.28	813.06	812.62	808.29	812.23	811.90	805.32	811.62	811.39	803.66	811.21	811.09	803.70	811.02	811.00	802.83	811.04	811.13	803.83	811.25
2151+00		2152+00		2153+00		2154+00		2155+00		2156+00		2157+00		2158+00		2159+00		2160+00		2161+00		2162+00		2163+00		2164+00		2165+00																																																																
USER NAME -		DESIGNED -		REVISED -		DRAWN -		REVISED -		CHECKED -		REVISED -		DATE -		REVISED -		SCALE: 1"=50'		SECTION		TOTAL SHEETS		SHEET NO.																																																																				
																						37		12																																																																				
																								ILLINOIS																																																																				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

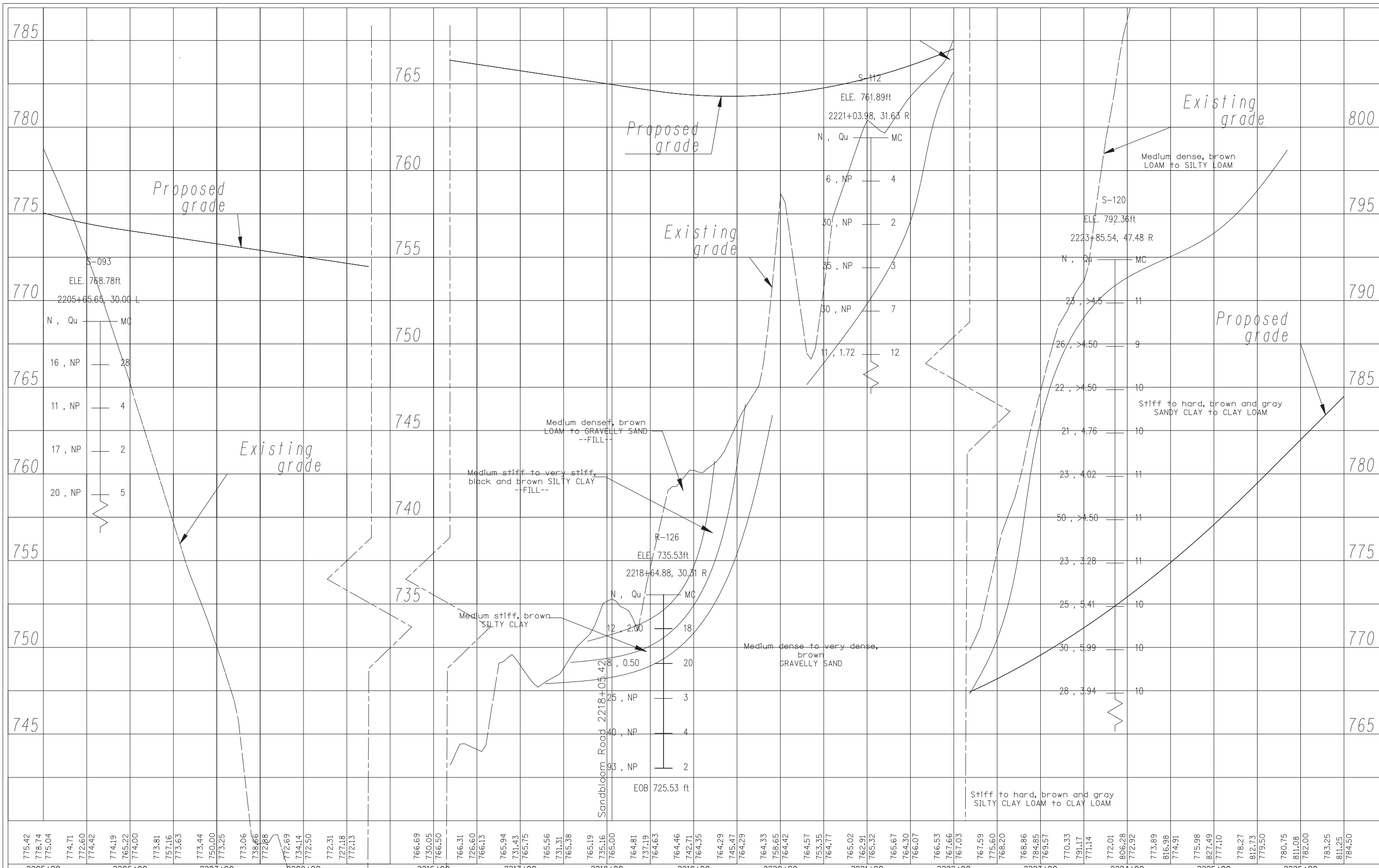




817.62	827.70	816.81	816.06	821.42	815.35	814.70	816.66	814.10	813.55	812.28	813.06	812.62	808.29	812.23	811.90	805.32	811.62	811.39	803.66	811.21	811.09	803.70	811.02	811.00	802.83	811.04	811.13	803.93	811.25	811.38	805.76	811.50	811.51	809.46	811.39	811.26	807.63	811.14	811.01	807.11	810.89	810.76	805.91	810.64	810.51	804.70	810.39	810.26	803.94	810.14	810.01	802.95	809.89	809.76	802.02	809.64	809.51	801.02	809.39	809.26	800.74	809.13	809.01	800.37	808.88	808.76	800.39	808.63	808.51	800.59	808.38	808.26	801.73	808.13	808.01	802.88	807.88	807.76	804.48	807.63	807.51	805.67	807.38	807.26	805.97	807.13	807.01	805.95	806.88	806.76	805.95	806.63
2161+00	2162+00	2163+00	2164+00	2165+00	2166+00	2167+00	2168+00	2169+00	2170+00	2171+00	2172+00	2173+00	2174+00	2175+00	2176+00																																																																													
USER NAME -		DESIGNED -		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SCALE: 1"=50'										SECTION		TOTAL SHEETS		SHEET NO.																																																																								
DRAWN -		REVISIED -		REVISED -														37		14																																																																								
PLOT SCALE -		CHECKED -		REVISED -																																																																																								
PLOT DATE		DATE		REVISED												ILLINOIS																																																																												



806.76	805.95	806.63	806.51	806.02	806.38	806.26	806.20	806.13	806.01	806.00	805.88	805.76	805.76	805.63	805.51	805.20	805.38	805.26	804.53	805.13	805.01	803.71	804.88	804.76	802.83	804.63	804.51	801.40	804.38	804.26	799.90	804.13	804.01	798.56	803.88	803.76	797.59	803.63	803.51	797.28	803.38	803.26	797.09	803.13	803.00	797.07	802.90	802.84	797.34	802.84	802.90	797.43	803.02	803.19	797.69	803.42	803.70	798.28	804.04	804.44	799.38	804.87	805.31	800.95	805.75	806.18	802.76	806.62	807.06	804.65	807.50	807.94	806.23	808.37	808.81	807.47	809.25	809.69	808.40	810.12	810.56	808.86	811.00	811.44	809.13	811.86	812.24	809.41	812.56	812.83	809.59	813.05
2176+00	2177+00	2178+00	2179+00	2180+00	2181+00	2182+00	2183+00	2184+00	2185+00	2186+00	2187+00	2188+00	2189+00	2190+00	2191+00																																																																													
USER NAME -		DESIGNED -	REVISED -	STATE OF ILLINOIS												SECTION		TOTAL SHEETS	SHEET NO.																																																																									
DRAWN -		REVISOR -	REVISOR -	DEPARTMENT OF TRANSPORTATION														37	15																																																																									
PLOT SCALE -		CHECKED -	REVISOR -	SCALE: 1"=50'																																																																																								
DATE -		DATE -	REVISOR -	ILLINOIS																																																																																								



775.42	774.71	774.19	773.81	773.06	772.69	772.31	772.13	766.69	766.31	765.94	765.56	765.19	764.81	764.46	764.29	764.33	764.57	765.02	765.67	766.53	767.03	767.59	768.86	770.33	771.14	772.01	773.89	775.98	777.10	778.27	779.50	780.75	783.25	784.50			
2205+00	2206+00	2207+00	2208+00	2216+00	2217+00	2218+00	2219+00	2220+00	2221+00	2222+00	2223+00	2224+00	2225+00	2226+00																							

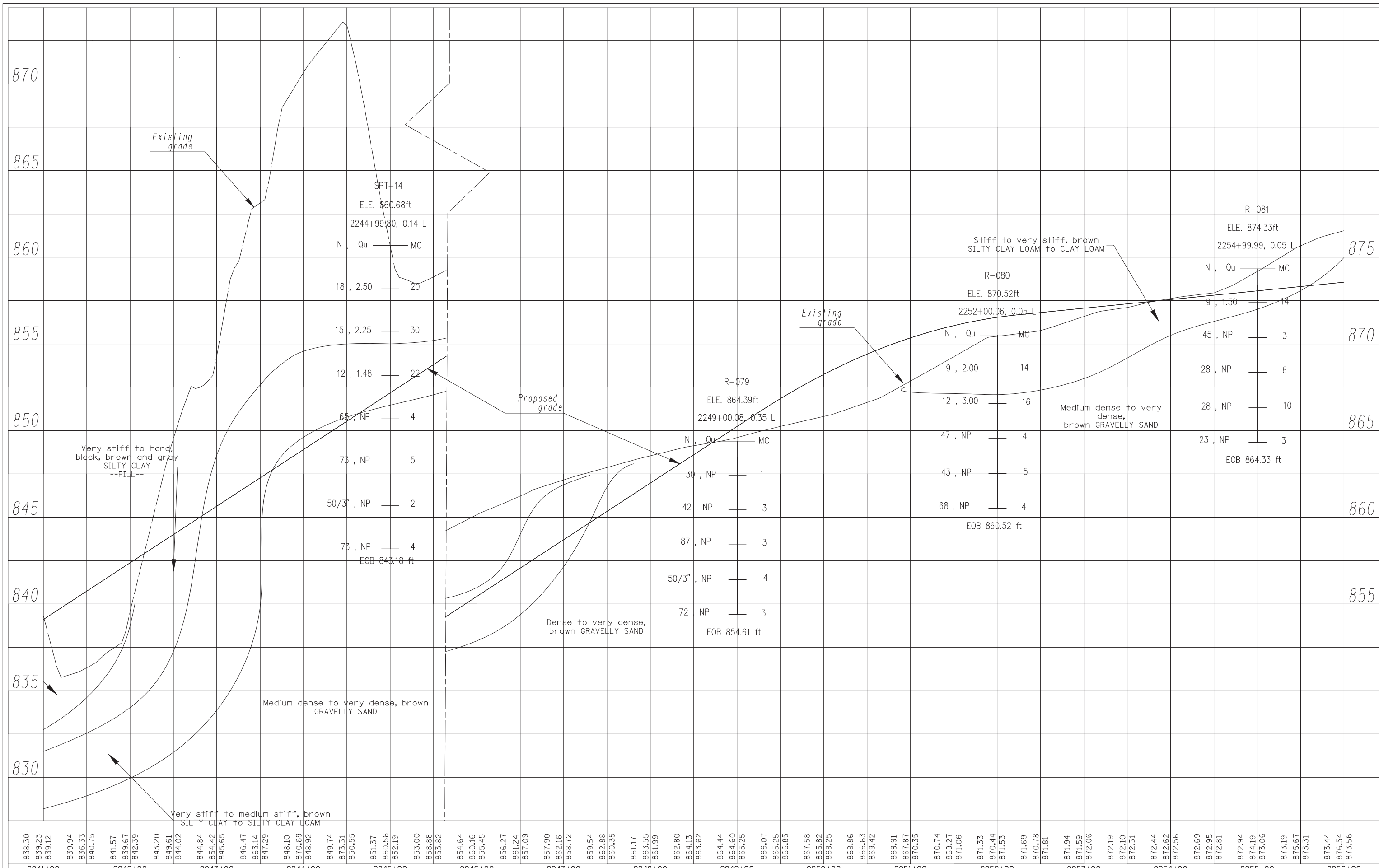
USER NAME -	DESIGNED -	REVISED -
PLOT SCALE -	DRAWN -	REVISED -
PLOT DATE	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: 1"=50'

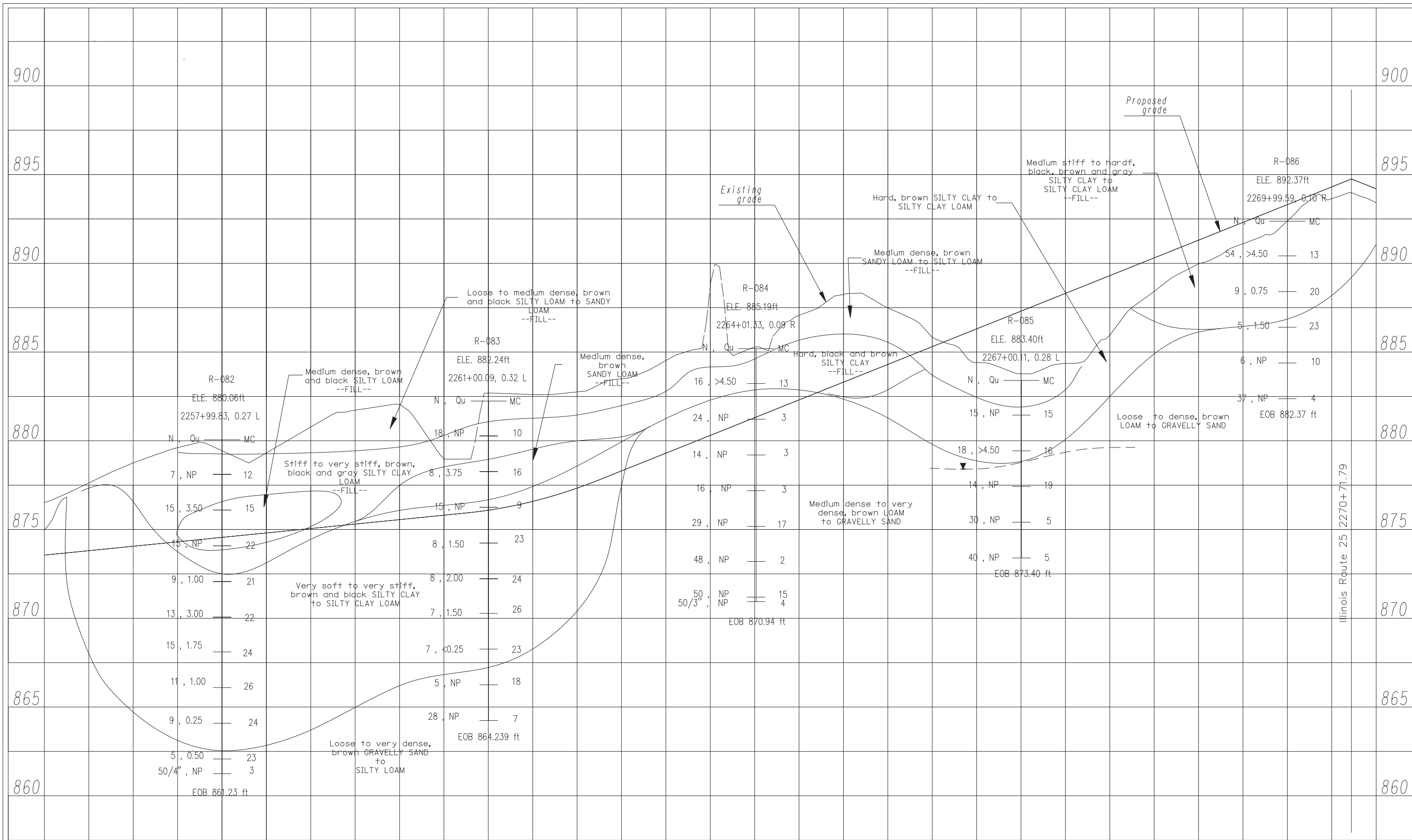
SECTION	TOTAL SHEETS	SHEET NO.
	37	17

ILLINOIS

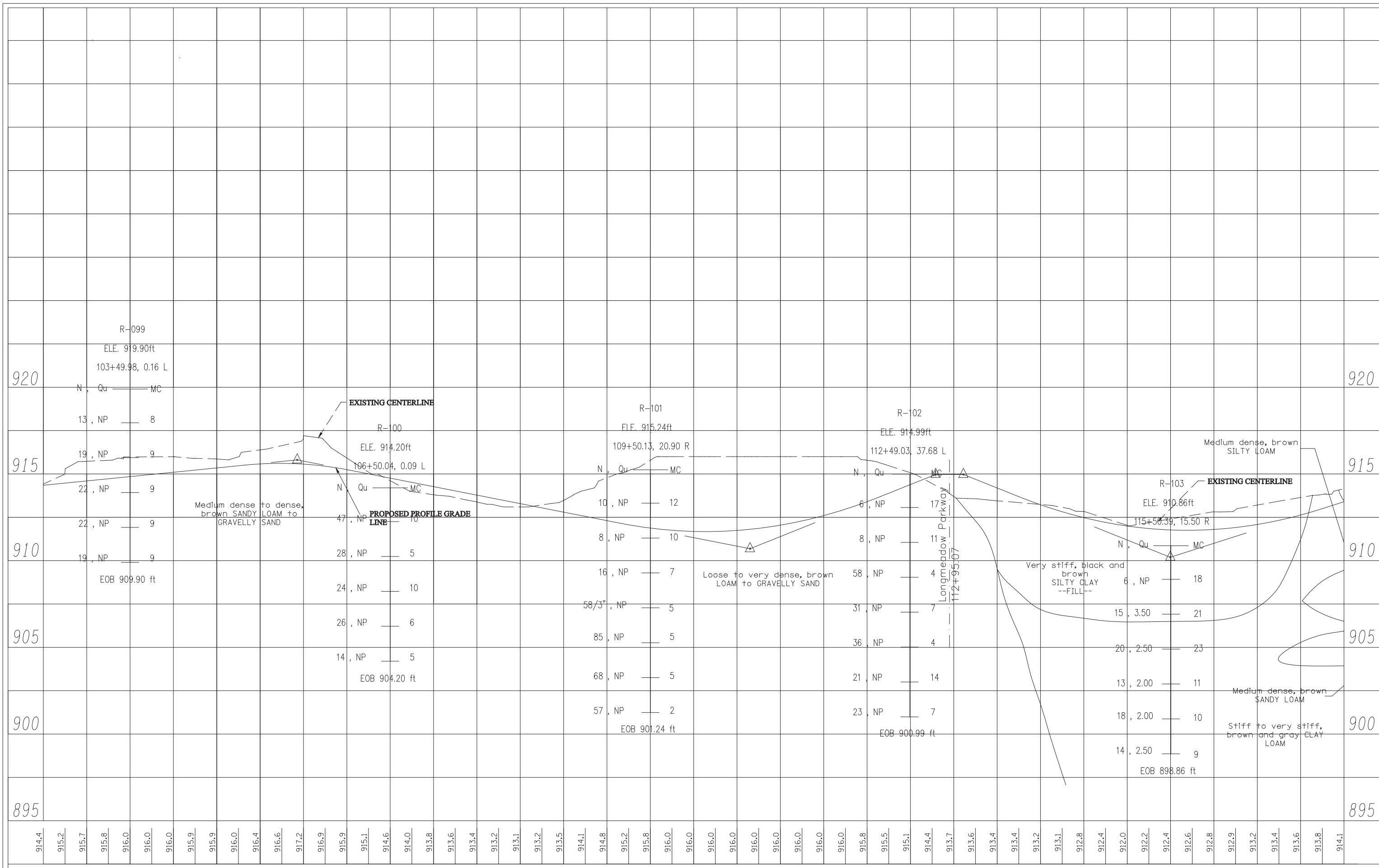


838.50	2241+00	839.23	2242+00	839.12	2242+00	839.94	2243+00	840.75	2243+00	841.57	2244+00	842.39	2244+00	843.20	2245+00	844.84	2245+00	845.65	2246+00	846.47	2246+00	847.29	2247+00	848.10	2247+00	848.92	2248+00	849.74	2248+00	850.55	2249+00	851.37	2249+00	852.19	2250+00	853.00	2250+00	853.82	2251+00	854.64	2251+00	855.45	2252+00	856.27	2252+00	861.24	2253+00	857.09	2253+00	857.90	2254+00	862.16	2254+00	858.72	2255+00	859.54	2255+00	862.88	2256+00	860.35	2256+00	861.17		863.55		861.99		862.80		864.13		863.62		864.44		864.60		865.25		866.07		865.25		866.95		867.58		865.82		868.25		868.86		866.63		869.42		869.91		867.87		870.35		870.74		869.27		871.06		871.33		870.44		871.53		871.69		870.78		871.81		871.94		871.59		872.06		872.19		872.10		872.31		872.44		872.62		872.56		872.69		872.95		872.81		872.94		874.19		873.06		873.19		875.67		873.31		873.44		876.54		873.56	
USER NAME -		DESIGNED -		REVISED -		DRAWN -		REVISED -		CHECKED -		REVISED -		DATE -		REVISED -		SCALE: 1"=50'		SECTION		TOTAL SHEETS		SHEET NO.																																																																																																																																											
																						37		19																																																																																																																																											
																						ILLINOIS																																																																																																																																													

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



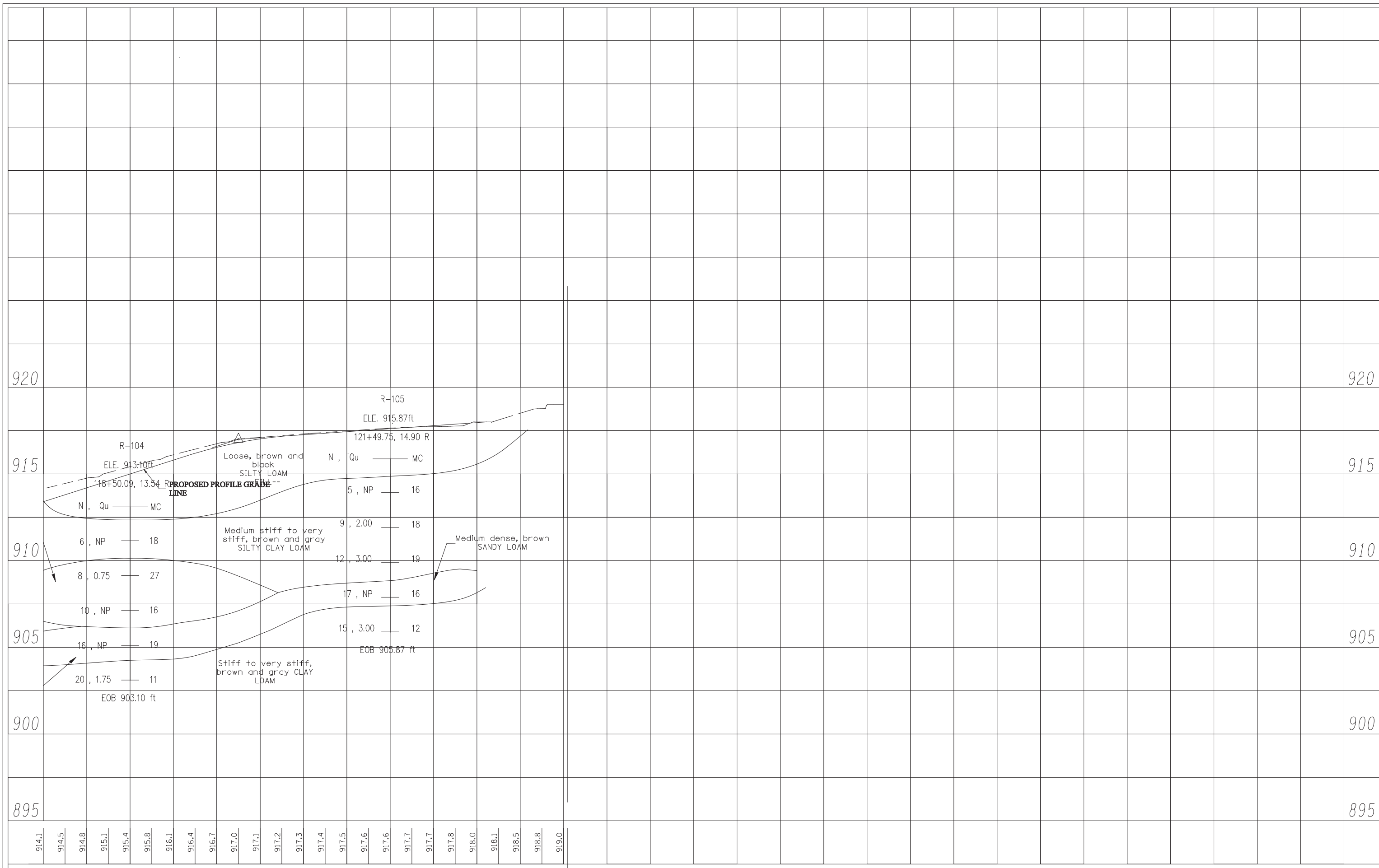
873.44	876.54	873.56	873.69	877.63	873.81	873.94	878.76	874.06	874.19	879.62	874.51	874.44	879.43	874.56	874.69	879.33	874.81	874.94	880.79	875.06	875.19	881.73	875.31	875.44	882.04	875.56	875.69	878.96	875.81	875.94	882.69	876.09	876.31	882.60	876.59	876.94	882.76	877.34	877.81	883.50	878.31	878.81	884.53	879.31	879.81	888.92	880.31	880.81	885.30	881.31	881.81	887.07	882.31	882.81	888.26	883.31	883.81	887.48	884.31	884.81	885.81	885.31	885.81	884.41	886.31	886.81	883.77	887.31	887.81	884.36	888.31	888.81	885.97	889.31	889.81	888.43	890.31	890.81	889.97	891.31	891.81	891.11	892.31	892.81	892.41	893.31	893.81	893.65	894.31	894.69	893.40	894.19
2256+00	2257+00	2258+00	2259+00	2260+00	2261+00	2262+00	2263+00	2264+00	2265+00	2266+00	2267+00	2268+00	2269+00	2270+00	2271+00																																																																													
USER NAME -		DESIGNED -	REVISED -	STATE OF ILLINOIS		SECTION		TOTAL SHEETS	SHEET NO.																																																																																			
DRAWN -		REVISOR -	REVISOR -	DEPARTMENT OF TRANSPORTATION				37	20																																																																																			
PLOT SCALE -		CHECKED -	REVISOR -																																																																																									
PLOT DATE		DATE -	REVISOR -																																																																																									
						SCALE: 1"=50'		ILLINOIS																																																																																				



914.4	915.2	915.7	915.8	916.0	916.0	916.0	915.9	915.9	916.0	916.4	916.6	917.2	916.9	915.9	915.1	914.6	914.0	913.8	913.6	913.4	913.2	913.1	913.2	913.5	914.1	914.8	915.2	915.8	916.0	916.0	916.0	916.0	916.0	916.0	916.0	915.8	915.5	915.1	914.4	913.7	913.6	913.4	913.4	913.2	913.1	912.8	912.4	912.0	912.2	912.4	912.6	912.8	912.9	913.2	913.4	913.6	913.8	914.1
102+50	103+00	103+50	104+00	104+50	105+00	105+50	106+00	106+50	107+00	107+50	108+00	108+50	109+00	109+50	110+00	110+50	111+00	111+50	112+00	112+50	113+00	113+50	114+00	114+50	115+00	115+50	116+00	116+50	117+00	117+50																												
USER NAME -		DESIGNED -		REVISED -		DRAWN -		REVISED -		CHECKED -		REVISED -		DATE -		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION BOYER ROAD SCALE: 1"=50'										SECTION		TOTAL SHEETS	SHEET NO.																											
PLOT SCALE -		CHECKED -		REVISED -		DATE -		REVISED -		DATE -		REVISED -		DATE -		REVISED -												ILLINOIS				37	24																									

890

895



914.1	914.5	914.8	915.1	915.4	915.8	916.1	916.4	916.7	917.0	917.1	917.2	917.3	917.4	917.5	917.6	917.6	917.7	917.7	917.8	918.0	918.1	918.5	918.8	919.0
117+50	118+00	118+50	119+00	119+50	120+00	120+50	121+00	121+50	122+00	122+50	123+00													

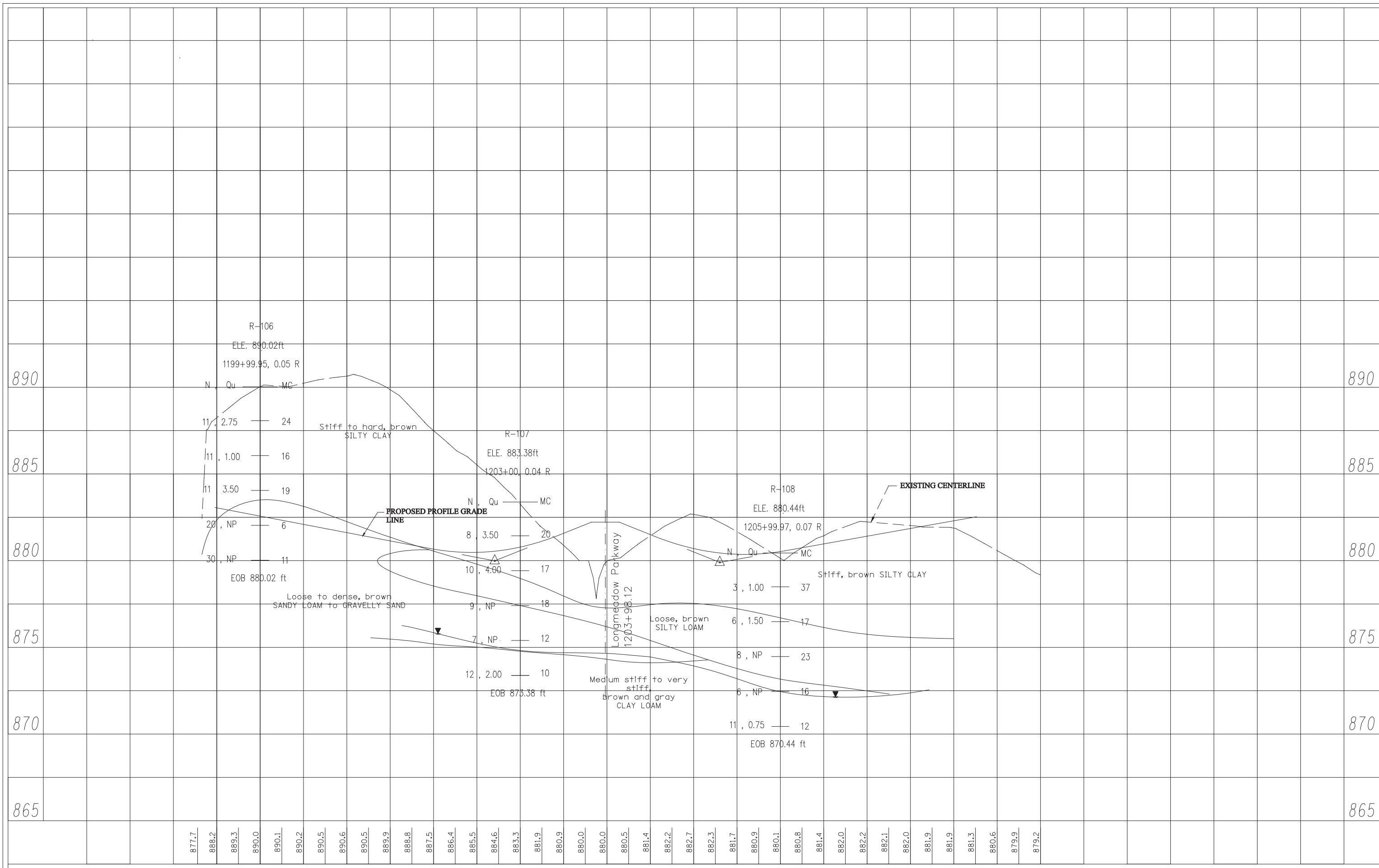
USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BOYER ROAD

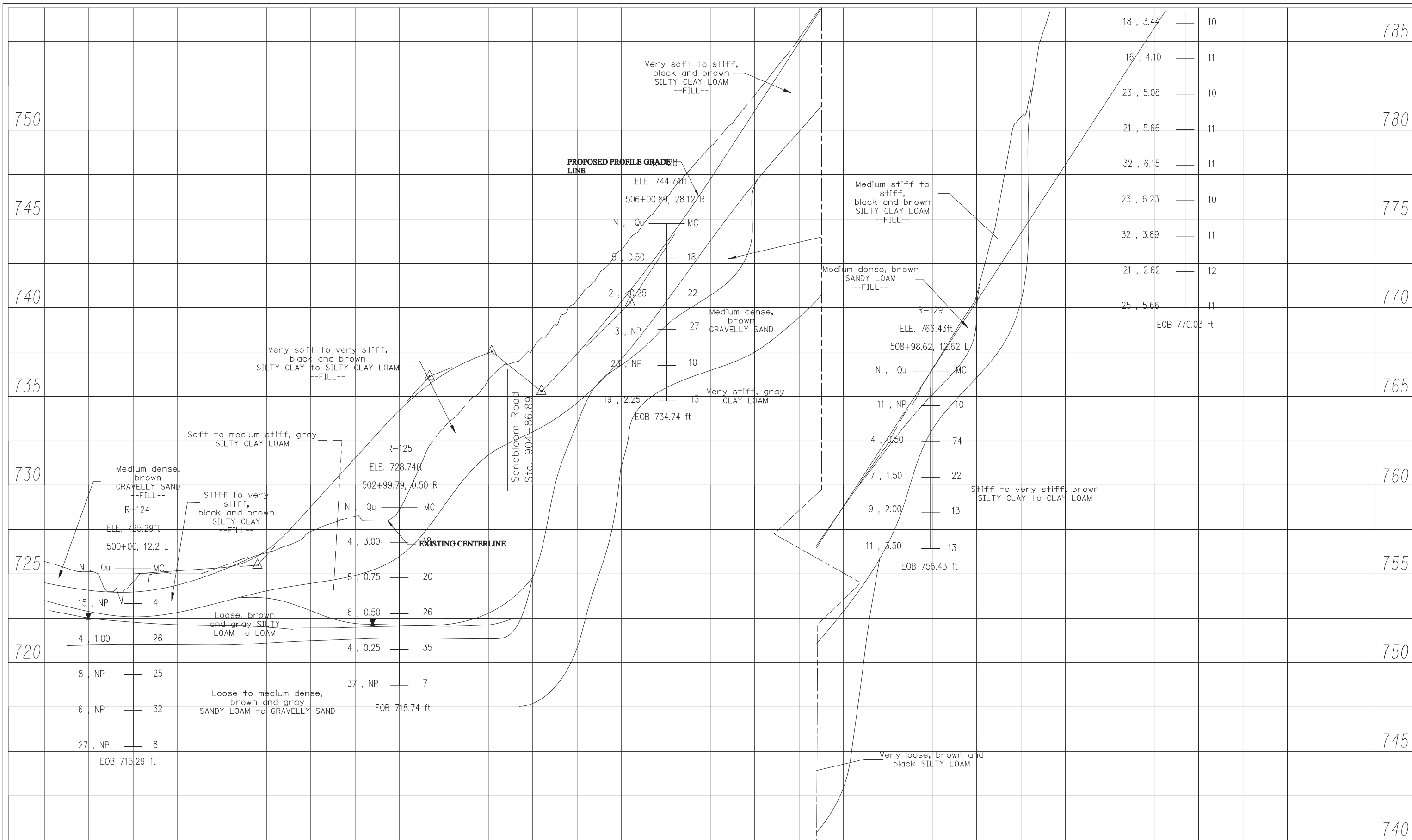
SCALE: 1"=50'

SECTION	TOTAL SHEETS	SHEET NO.
	37	25
ILLINOIS		

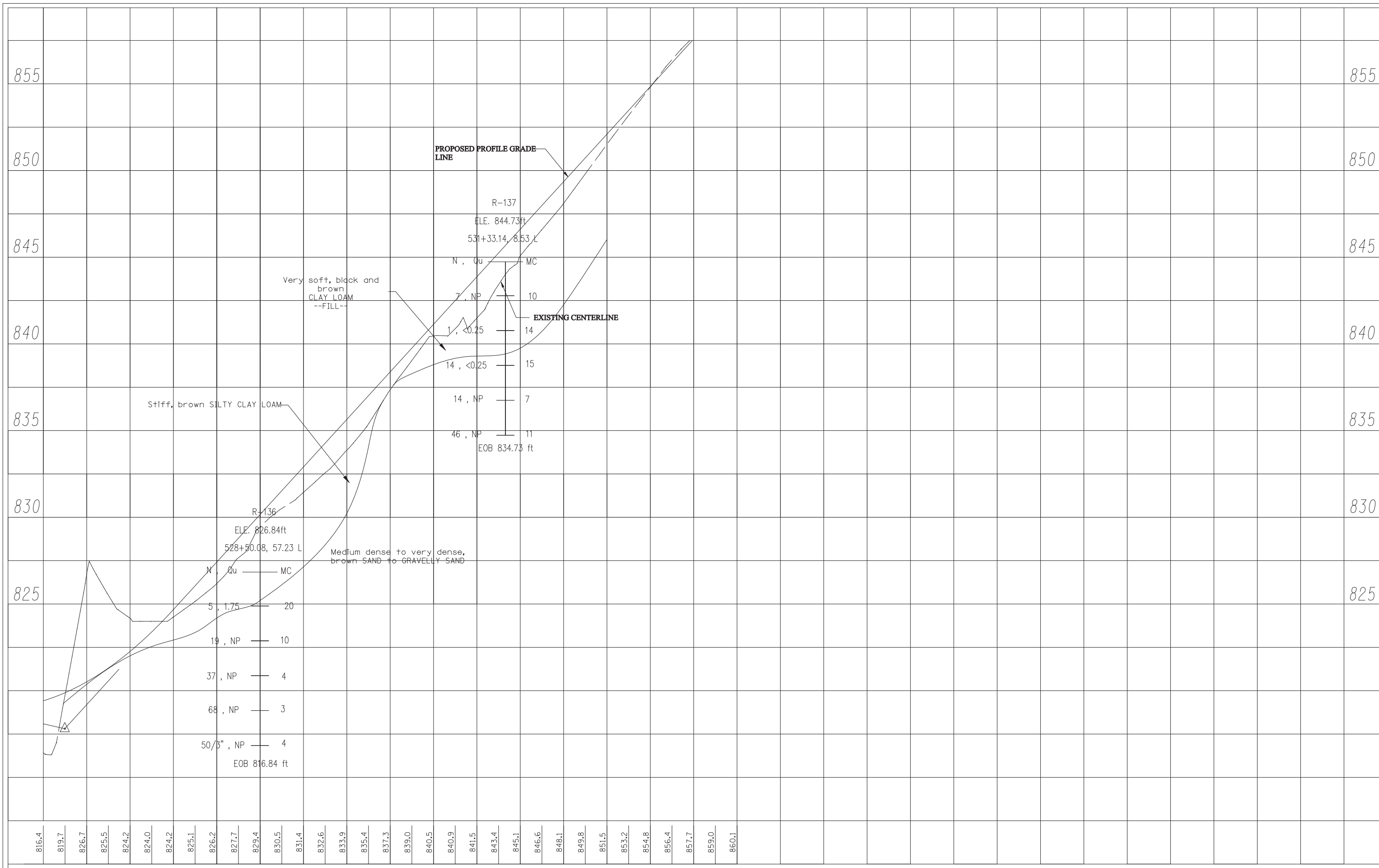


877.7	888.2	889.3	890.0	890.1	890.2	890.5	890.6	890.5	889.9	888.8	887.5	886.4	885.5	884.6	883.3	881.9	880.9	880.0	880.0	880.5	881.4	882.2	882.7	882.3	881.7	880.9	880.1	880.8	881.4	882.0	882.2	882.1	882.0	881.9	881.9	881.3	880.6	879.9	879.2
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

1199+50		1200+00		1200+50		1201+00		1201+50		1202+00		1202+50		1203+00		1203+50		1204+00		1204+50		1205+00		1205+50		1206+00		1206+50		1207+00		1207+50		1208+00		1208+50		1209+00	
USER NAME -			DESIGNED -			REVISED -			DRAWN -			REVISED -			CHECKED -			REVISED -			DATE -			REVISED -			STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION WESTBORNE PARKWAY SCALE: 1"=50'						SECTION		TOTAL SHEETS		SHEET NO.		
PLOT SCALE -			CHECKED -			REVISED -			DATE -			REVISED -			37		26		ILLINOIS																				



725.7	725.3	725.1	724.0	724.5	725.0	725.0	725.0	725.4	725.9	726.2	726.6	727.4	727.9	728.2	728.0	728.6	731.3	733.3	734.5	735.9	736.9	737.7	739.1	740.4	741.9	743.3	744.7	746.2	747.7	749.1	750.4	752.0	753.6	755.2	757.0	758.7	760.5	762.3	764.4	766.5	768.5	770.6	775.6	780.7	785.5	789.3	793.9	802.3	805.3	808.8	815.4	819.9	824.7	828.6	832.9	836.3	831.6	819.0	810.0	810.0
499+00	499+50	500+00	500+50	501+00	501+50	502+00	502+50	503+00	503+50	504+00	504+50	505+00	505+50	506+00	506+50	507+00	507+50	508+00	508+50	509+00	509+50	510+00	510+50	511+00	511+50	512+00	512+50	513+00	513+50	514+00																														
USER NAME -			DESIGNED -			REVISED -			STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION BOLZ ROAD																		SECTION			TOTAL SHEETS		SHEET NO.																												
DRAWN -			CHECKED -			REVISED -																								37		34																												
PLOT SCALE -			DATE -			REVISED -																					SCALE: 1"=50'			ILLINOIS																														
PLOT DATE			DATE -			REVISED -																																																						

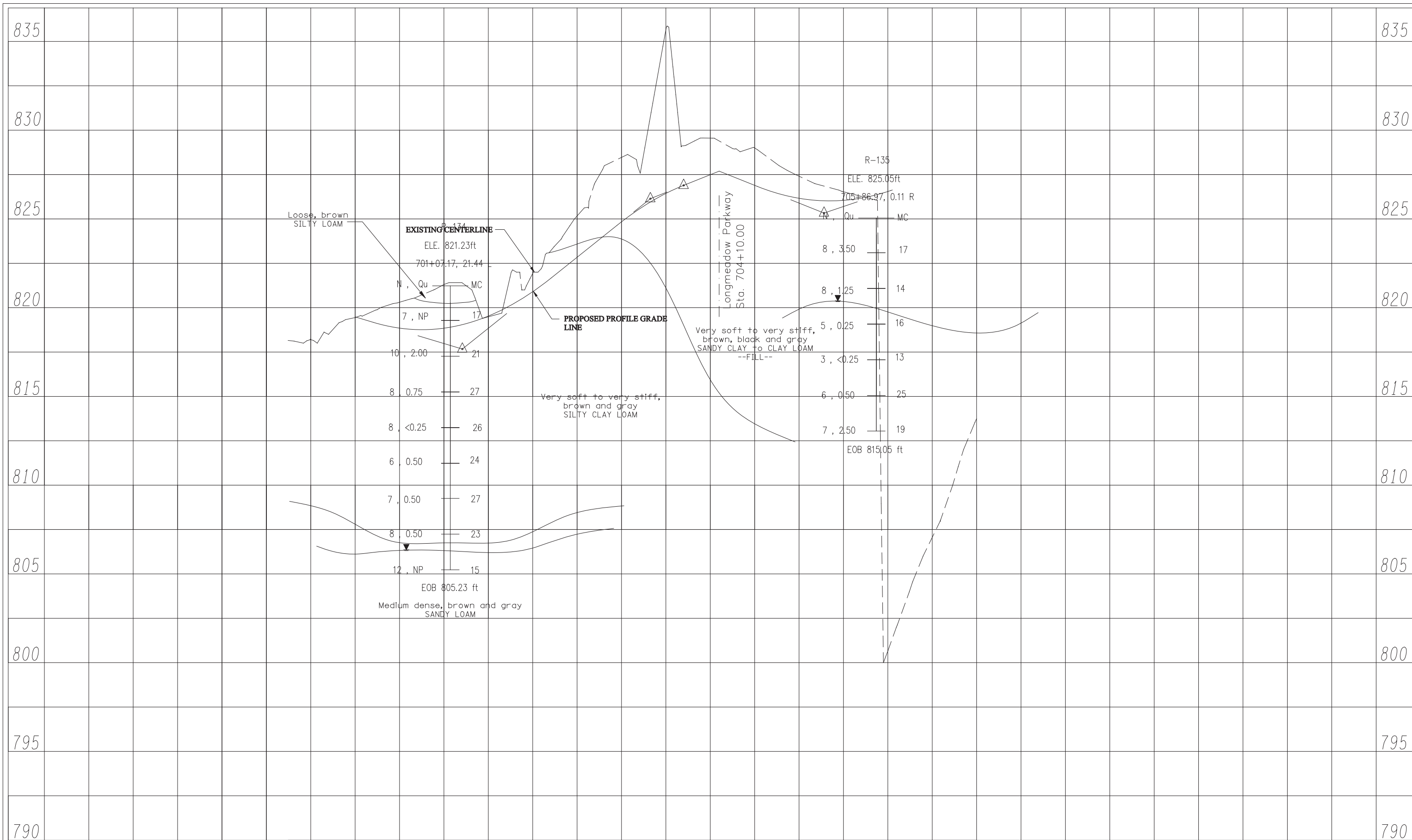


816.4	819.7	826.7	825.5	824.2	824.0	824.2	825.1	826.2	827.7	829.4	830.5	831.4	832.6	833.9	835.4	837.3	839.0	840.5	840.9	841.5	843.4	845.1	846.6	848.1	849.8	851.5	853.2	854.8	856.4	857.7	859.0	860.1		
526+00	526+50	527+00	527+50	528+00	528+50	529+00	529+50	530+00	530+50	531+00	531+50	532+00	532+50	533+00	533+50	534+00																		

USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SECTION		TOTAL SHEETS	SHEET NO.
		37	36
SCALE: 1"=50'		ILLINOIS	



818.2 818.8 819.4 819.9 820.3 820.7 821.3 821.2 819.5 821.8 821.9 823.5 825.2 827.5 828.5 828.7 835.7 829.2 829.6 829.0 829.0 828.1 827.4 826.9 826.5 826.2 800.7 804.1 807.1 810.3 813.8

USER NAME =	DESIGNED -	REVISÉD -
	DRAWN -	REVISÉD -
PLOT SCALE =	CHECKED -	REVISÉD -
PLOT DATE =	DATE -	REVISÉD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BOLZ ROAD CONNECTOR

SCALE: 1"=50'

SECTION	TOTAL SHEETS	SHEET NO.
	37	37
ILLINOIS		