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Re: Letter Report

Geotechnical Recommendations for Noise Walls, Sign Structures, and DMS/ ITS

Interstate 80 Reconstruction East Mainline

PTB/ Item No. 194/011

IDOT Contract No. 62R89

Will County, Illinois

Wang No. KE225089/ 7901-15-01

This letter report presents the results of our geotechnical subsurface investigation, laboratory testing, geotechnical engineering analyses, and recommendations for the design and construction of ground mounted sign structures, noise walls, and DMS/ITS proposed along the Interstate 80 (I-80) East Mainline between Stations 518+00 and 634+50, in Will County, Illinois. The structures are part of the proposed widening and reconstruction of I-80 from Houbolt Road to west of Center Street and will be constructed as part of Contract 62R89. On the USGS Channahon *Quadrangle 7.5 Minute Series* map, the structures are located in the S ½ of Section 17 and S ½ of Section 18, Tier 35 N, Range 10 E of the Third Principal Meridian. A *Site Location Map* is presented as Exhibit 1.

Based on drawings provided by TranSystems Corporation (TranSystems), Wang Engineering, Inc., A Terracon Company (Wang) understands Noise Walls (NW) 15, 16, 17, 19, and 20 will be constructed along the both sides of the I-80 lanes. Four overhead sign structures and two cantilever sign structure will be installed between Stations 557+06 and 621+50. In addition, one DMS/ ITS is proposed at Station 625+00. There is no structure information available for soil borings drilled for the proposed sign structures and DMS at stations 558+76, 573+79, 605+31, and 618+78. The proposed noise walls details are summarized in Table 1 and the proposed sign structures and DMS/ ITS details are summarized in Table 2.

Table 1: Proposed Noise Walls

Noise Wall No.	Start Station ¹⁾	End Station ¹⁾	Offset ¹⁾	Wall Length (feet)	Noise Wall Height (feet)
NW 15	572+16.53	579+87.99	69.50' LT to 167.27' LT	937.4	19
NW 16	596+69.33	614+55.00	75.5' RT to 136.12' RT	1790.3	18
NW 17	599+08.25	614+59.99	99.91' LT to 117.12' LT	1610.3	19
NW 19	616+10.00	627+35.00	155.44' RT to 156.58' RT	1125.0	19
NW 20	616+20	634+50	81.50' LT to 87.50' LT	1830.1	13

¹⁾ Station and offset are from I-80 alignments

Table 2: Proposed Sign Structures and DMS/ ITS

Station	Type	Center-to-Center Supports / Cantilever Length (ft-in)	Total Sign Area (ft ²)
557+06	Cantilever III-C-A	34'-0"	208.00
558+76	NA	NA	NA
572+13	Overhead Span I-A	77'-0"	565.25
573+79	NA	NA	NA
605+31	NA	NA	NA
606+33	Overhead Span I-A	85'-0"	378.00
617+00	Cantilever III-C-A	38'-0"	224.00
617+25	Overhead Span	TBD	TBD
621+58	Overhead Span I-A	85'-0"	208.00
618+78	NA	NA	NA
625+00	DMS/ITS	82'-0"	240

The purpose of our investigation was to characterize the site soil and groundwater conditions for the design and construction of the proposed structures.

FIELD AND LABORATORY INVESTIGATIONS

The subsurface investigation consisted of a total of 93 structure borings performed by Wang Testing Services (WTS) between February 1, 2023 and June 2, 2023. The subsurface investigation program is summarized in Tables 3 and 4. The boring locations were surveyed by Wang with a mapping-grade GPS. Elevations, stations, and offsets were provided by TranSystems. The as-drilled boring locations are shown in the *Boring Logs* (Appendix A) and on the *Boring Location Plan* (Exhibit 2).

Table 3: Summary of Noise Wall Borings

Nosie Wall No.	Boring ID	Existing Surface Elevations (feet)	Boring Depth (feet)
NW 15	NAW15-01 to NAW15-11	625.0 to 637.0	15.0
NW 16	NAW16-01 to NAW16-21	627.1 to 644.6	20.0 to 25.0
NW 17	NAW17-01 to NAW17-19, and NAW17-15B	634.1 to 656.4	7.2 to 20.0
NW 19	NAW19-01 to NAW19-07	629.2 to 649.2	20.0
NW 20	NAW20-01 to NAW20-11, and NAW20-08A to NAW20-11A	607.1 to 635.5	15.0 to 30.0

Table 4: Summary of Sign Structure and DMS/ ITS Borings

Location	Structure Type	Boring ID	Existing Surface Elevations (feet)	Boring Depth (feet)
557+06	Cantilever	OHS05-01	627.2	35.0
558+76	NA	OHS06-01	629.1	35.0
572+13	Overhead Span	OHS07-01 and OHS07-02	626.4 and 627.2	35.0
573+79	NA	OHS08-01, OHS08-02, and OHS08-02B	622.8 to 625.9	7.5 and 35.0

Location	Structure Type	Boring ID	Existing Surface Elevations (feet)	Boring Depth (feet)
605+31	NA	OHS09-01 and OHS09-02	640.4 and 641.1	30.0 and 40.0
606+33	Overhead Span	OHS10-01 and OHS10-02	638.0 and 640.5	30.0 and 35.0
617+00	Cantilever	OHS11-01	640.5	35.0
617+25	Overhead Span	OHS13-01 and OHS13-02	633.8 and 637.0	35.0
621+50	Overhead Span	OHS12-01	626.8	30.0
618+78	NA	DMS2-01 and DMS2-02	631.7 and 633.7	30.0
625+00	DMS/ITS	DMS2-03 and DMS2-04	615.9 and 618.8	35.0

A combination of ATV- and truck-mounted drilling rigs, equipped with hollow stem augers, was used to advance and maintain open boreholes. Soil sampling was executed according to AASHTO T 206, "*Penetration Test and Split Barrel Sampling of Soils.*" The soil was sampled at 2.5-foot intervals to the boring termination depth. Soil samples collected from each sampling interval were placed in sealed jars, and the rock cores were placed into marked core boxes and transported to the laboratory for further examination and testing.

Field boring logs prepared and maintained by a Wang field geologist included lithological descriptions, visual-manual soil classifications (IDH textural classification), results of pocket penetrometer or Rimac unconfined compressive strength testing on cohesive soils, and Standard Penetration Test (SPT) results recorded as blows per 6 inches of penetration.

Groundwater observations were made during and at completion of drilling. It should be noted that groundwater levels might vary with seasonal rainfall patterns and long-term climate fluctuations or be influenced by local site conditions. The boreholes were grouted immediately upon completion and the surface was restored as close as possible to the original condition.

Soil samples were tested in our laboratory for moisture content (AASHTO T 265). Atterberg limits (AASHTO T89 and T90) and particle size analysis (AASHTO T88) tests were performed on selected

samples. The laboratory test results are shown in the *Boring Logs* (Appendix A) and in the *Laboratory Test Results* (Appendix B).

SOIL AND GROUNDWATER CONDITIONS

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* (Exhibits 3-1 to 3-17). 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.

Noise Wall 15

At the surface, Borings NAW15-01 and NAW15-02 encountered 12 to 13 inches of asphalt pavement over six inches of sandy gravel aggregate base, Boring NAW15-03 encountered nine inches of concrete pavement over six inches of sandy gravel base course. Borings NAW15-04 through NAW15-11 revealed one to eight inches of silty clay loam topsoil. In descending order, the general lithological succession encountered beneath the pavement structure or topsoil includes: 1) man-made ground (fill); and 2) stiff to hard silty clay to silty clay loam.

(1) Man-made ground (fill)

From the surface and beneath the pavement structure or topsoil, the borings encountered 1.8 to 5.2 feet of stiff to hard silty clay, clay, and silty clay loam fill with unconfined compressive strength (Q_u) values of 1.0 to greater than 4.5 tsf and moisture content values of 15 to 32%. Laboratory index testing on a sample from this layer shows L_L and P_L values of 32 to 36% and 15 to 17%, respectively.

(2) Stiff to hard silty clay to silty clay loam

Beneath the fill, at elevations of 619.7 to 634.0 feet (0.3 to 5.5 feet bgs), the borings revealed stiff to hard silty clay to silty clay loam to the end of each borehole depth. This soil unit has Q_u values of 1.5 to 10.1 tsf and moisture content values of 16 to 24%. Laboratory index testing on a sample from this layer shows L_L and P_L values of 35 to 38% and 16 to 18%, respectively.

Groundwater was observed in Borings NAW15-03 and NAW15-11 while drilling at elevations of 623 and 630 feet (2.5 and 7.0 feet bgs) within the interbedded granular layers. Upon completion of drilling, groundwater was measured within the augers at elevations of 615 to 620 feet (10 to 14 feet bgs) in Borings NAW15-03, NAW15-09, and NAW15-10. At Borings NAW15-09 and NAW15-10, standing

water was present at the time of drilling.

Noise Wall 16

At the surface, Borings NAW16-02, NAW16-03, NAW16-09, and NAW16-11 through NAW16-16 encountered two to 12 inches of black and brown silty clay to silty clay loam topsoil. Borings NAW16-01, NAW16-05, NAW16-19, and NAW16-20 encountered one to four inches of gravel roadway shoulder. Borings NAW16-04, NAW16-07, NAW16-10, NAW16-17, NAW16-18, and NAW16-21 revealed four to 14.5 inches of asphalt pavement over four to 13 inches of sand, gravelly sand, and crushed stone base course. In descending order, the general lithological succession encountered beneath the topsoil or pavement structure includes: 1) man-made ground (fill); 2) soft to very stiff silty clay, clay to clay loam; and 3) stiff to hard silty clay to silty clay loam.

(1) Man-made ground (fill)

From the surface and beneath the topsoil or pavement, the borings encountered 0.7 to 8.0 feet of granular and cohesive fill. The granular fill consists of medium dense to dense, dry to wet sandy gravel and gravel with SPT N-values of 14 and 34 blows per foot. The cohesive fill consists of medium stiff to hard silty clay and clay loam with Q_u values of 0.5 to 5.5 tsf and moisture content values of 13 to 31%.

Below the fill, in Borings NAW16-06, NAW16-11, NAW16-16, NAW16-18, and NAW16-20, 0.8 to 2.7 feet of stiff to very stiff, dark brown and black silty clay buried topsoil was present. The buried topsoil has Q_u values of 1.0 to 3.3 tsf and moisture content values of 23 to 42%. The presence of this layer most likely indicates the boundary between fill and natural soils.

(2) Soft to very stiff silty clay, clay to clay loam

Beneath the topsoil and fill, at elevations of 626.9 to 641.1 feet (0.2 to 8.0 feet bgs), the borings revealed 1.3 to 5.2 feet of soft to very stiff silty clay, clay to clay loam. This layer has Q_u values of 0.4 to 3.9 tsf and moisture content values of 20 to 41%. Saturated silt to silty loam lenses were present throughout this unit. Laboratory index testing on a sample from this layer shows L_L and P_L values of 50% and 18%, respectively.

(3) Stiff to hard silty clay to silty clay loam

At elevations of 624.0 to 641.6 feet (3.0 to 10.5 feet bgs), the borings revealed stiff to hard silty clay to silty clay loam to the end of each borehole depth. This layer has Q_u values of 1.0 to greater than 10.3

tsf and moisture content values of 13 to 28%. Saturated sand and silt seams were present throughout this unit.

Groundwater was observed during drilling at elevations of 624 to 639 feet (1.0 to 11.0 feet bgs) within the interbedded granular layers. Upon completion of drilling, Boring NAW16-05 recorded groundwater within the augers at an elevation of 625 feet (10 feet bgs).

Noise Wall 17

At the surface, the borings encountered two to eight inches of dark brown silty clay loam topsoil. Borings NAW17-02, NAW17-07, and NAW17-11 revealed one to four inches of asphalt pavement. Boring NAW17-01 revealed nine inches of concrete pavement over sandy gravel aggregate base. In descending order, the general lithological succession encountered beneath the topsoil or pavement structure includes: 1) man-made ground (fill); 2) medium stiff to very stiff silty clay to clay; and 3) stiff to hard silty clay to silty clay loam.

(1) Man-made ground (fill)

Beneath the topsoil or pavement structure, the borings encountered 2.5 to 10.5 feet of granular and cohesive fill. The granular fill consists of medium dense, damp sandy gravel with an SPT N-value of 21 blows per foot. The cohesive fill consists of medium stiff to hard silty clay to silty clay loam with Q_u values of 0.6 to 8.3 tsf and moisture content values of 15 to 31%. Laboratory index testing on a sample from this layer shows L_L and P_L values of 45% and 16%, respectively.

At an elevation of 637.0 feet (5.5 feet bgs), Boring NAW17-17 encountered 2.5 feet of hard, black silty clay buried topsoil. The buried topsoil has a Q_u value of 4.0 tsf and a moisture content value of 24%. The presence of this layer most likely indicates the boundary between fill and natural soils.

(2) Medium stiff to very stiff silty clay to clay

Beneath the fill, at elevations of 634.0 to 638.9 feet (0.2 to 8.0 feet bgs), the borings revealed medium stiff to very stiff silty clay to clay. This soil unit has Q_u values of 0.5 to 2.5 tsf and moisture content values of 18 to 33%.

At elevations of 633.1 and 636.9 feet (3.0 and 10.5 feet bgs), up to 2.5 feet of loose, moist to saturated silt was present. The silt has an SPT N-value of 8 blows per foot.

(3) Stiff to hard silty clay to silty clay loam

At elevations of 629.7 to 645.9 feet (0.3 to 13.0 feet bgs), the borings revealed stiff to hard silty clay to silty clay loam to the end of each borehole depth. This soil unit has Q_u values of 1.2 to greater than 10.3 tsf and moisture content values of 14 to 25%. Laboratory index testing on samples from this layer shows L_L and P_L values of 30 to 36% and 14 to 17%, respectively. Saturated silt, sand, and gravel lenses were present throughout this unit.

Groundwater was observed during drilling at elevations of 625 to 637 feet (3.0 to 12.0 feet bgs) within the interbedded granular layers. Upon completion of drilling, groundwater was measured within the augers at elevations of 620 to 629 feet (9.0 to 15.0 feet bgs). At Borings NAW17-03, NAW17-04, NAW17-08, and NAW17-09, standing water was present at the time of drilling.

Noise Wall 19

At the surface, the borings encountered seven to 10 inches of dark brown silty clay loam topsoil. In descending order, the general lithological succession encountered beneath the topsoil includes: 1) man-made ground (fill); and 2) stiff to hard silty clay to silty clay loam.

(1) Man-made ground (fill)

Beneath the topsoil, Boring NAW19-01 encountered 6.2 feet of very stiff silty clay fill. The fill has Q_u values of 2.1 and 2.8 tsf and moisture content values of 16 and 27%.

(2) Stiff to hard silty clay to silty clay loam

At elevations of 623.8 to 648.4 feet (0.6 to 6.8 feet bgs), the borings revealed stiff to hard silty clay to silty clay loam to the end of each borehole depth. This soil unit has Q_u values of 1.2 to 8.7 tsf and moisture content values of 13 to 27%. Laboratory index testing on a sample from this layer shows L_L and P_L values of 36% and 17%, respectively.

In Boring NAW19-04, at an elevation of 639.7 feet (9.5 feet bgs), a one-foot-thick wet silt lens was encountered above a 2.5-foot-thick medium stiff clay loam layer. The clay loam has a Q_u value of 0.7 tsf and a moisture content value of 19%.

Groundwater was observed in Boring NAW19-04 at an elevation of 640 feet (9.5 feet bgs) within the silt lens. Upon completion of drilling, groundwater was not present within the augers.

Noise Wall 20

At the surface, the borings encountered two to nine inches of dark brown silty clay to silty clay loam topsoil. Borings NAW20-08 through NAW20-10 revealed 16 to 18 inches of asphalt pavement. In descending order, the general lithological succession encountered beneath the topsoil or pavement structure includes: 1) man-made ground (fill); 2) stiff to hard silty clay to silty clay loam; 3) medium dense silt; 4) medium dense to very dense sand and sandy gravel; and 5) stiff to hard silty clay loam to silty loam.

(1) Man-made ground (fill)

Beneath the topsoil or pavement structure, the borings encountered 0.5 to 26.0 feet of medium stiff to hard silty clay to silty clay loam fill. The fill has Q_u values of 0.8 to 7.5 tsf and moisture content values of 12 to 27%. Laboratory index testing on a sample from this layer shows L_L and P_L values of 37% and 17%, respectively.

At elevations of 582.6 and 620.6 feet (2.0 and 26.8 feet bgs), Borings NAW20-02, NAW20-08A, NAW20-09A, and NAW20-10 encountered up to 3.2 feet of medium stiff to very stiff, black and brown silty clay buried topsoil. The buried topsoil has Q_u values of 0.5 to 2.1 tsf and moisture content values of 25 to 30%. The presence of this layer most likely indicates the boundary between fill and natural soils.

(2) Stiff to hard silty clay to silty clay loam

At elevations of 601.6 to 624.6 feet (0.3 to 13.8 feet bgs), the borings revealed up to 14.5 feet of stiff to hard silty clay to silty clay loam. This soil unit has Q_u values of 1.1 to greater than 10.3 tsf and moisture content values of 14 to 28%. Laboratory index testing on a sample from this layer shows L_L and P_L values of 37% and 17%, respectively.

At elevations of 609.9 to 625.4 feet (5.5 to 8.0 feet bgs), the borings encountered up to 0.8 feet of wet silty loam and sandy loam lenses within the silty clay to silty clay loam unit.

(3) Medium dense silt

At elevations of 598.1 and 600.6 feet (6.8 and 9.0 feet bgs), Borings NAW20-10 and NAW20-11 revealed up to 3.8 feet of medium dense, saturated silt. The silt has SPT N-values of 13 to 18 blows per foot.

(4) Medium dense to very dense sand and sandy gravel

At elevations of 580.9 and 596.8 feet (10.5 and 26.4 feet bgs), borings encountered medium dense to very dense, damp to moist sand and sandy gravel. This unit has SPT N-values of 10 to 64 blows per foot. In Boring NAW20-10A, at an elevation of 580.9 feet (26.3 feet bgs), a one foot thick, medium dense, moist to wet silty loam was present below the medium dense to dense sand.

(5) Stiff to hard silty clay loam to silty loam

At elevations of 579.3 to 582.5 feet (26.1 to 28 feet bgs), Borings NAW20-09A, NAW20-10A, and NAW20-11A revealed stiff to hard silty clay loam to silty loam to the end of each borehole. This soil unit has Q_u values of 1.0 to 6.2 tsf, SPT N-values of 21 to 72 blows per foot, and moisture content values of 8 to 15%.

Groundwater was observed during drilling at elevations of 579 to 628 feet (3.3 to 28.5 feet bgs) within the interbedded granular layers. Upon completion of drilling, groundwater was measured within the augers at elevations of 609 and 628 feet (6.0 and 9.0 feet bgs).

Cantilever Sign Structure at Station 557+06 (OHS05-01)

At the surface, Boring OHS05-01 encountered six inches of wet gravelly loam roadway shoulder. Beneath the granular shoulder, five feet of hard silty clay loam fill was encountered. The fill has Q_u values of 4.9 and 5.3 tsf and moisture content values of 15 and 16%.

At an elevation of 621.7 feet (5.5 feet bgs), Boring OHS05-01 encountered 30 feet of stiff to hard silty clay. The silty clay has Q_u values of 1.5 to 6.5 tsf and moisture content values of 17 to 23%. At an elevation of 596.7 feet (30.5 feet bgs), 4.5 feet of medium dense to dense, wet to saturated silt to silty loam was encountered. The silt to silty loam has SPT N-values of 11 to 37 blows per foot.

Groundwater was observed while drilling at an elevation of 597 feet (30.5 feet bgs) within the silt to silty loam unit. At the completion of drilling groundwater was observed at an elevation of 594 feet (33.5 feet bgs).

Cantilever Sign Structure at Station 558+76 (OHS06-01)

At the surface, Boring OHS06-01 encountered six inches of wet gravelly loam roadway shoulder. Beneath the granular shoulder, five feet of stiff, silty clay fill was encountered. The fill has Q_u values of 1.5 and 1.9 tsf and moisture content values of 20 and 26%.

Below the fill, at an elevation of 623.6 feet (5.5 feet bgs), OHS06-01 encountered up to 31.3 feet of stiff to hard silty clay to silty clay loam. The silty clay to silty clay loam has Q_u values of 1.9 to 6.6 tsf and moisture content values of 15 to 19%. At an elevation of 597.4 feet (31.8 feet bgs), 3.2 feet of medium dense to dense, moist to saturated silt was present at the bottom of OHS06-01. The silt has SPT N-values of 17 and 44 blows per foot.

Groundwater was observed while drilling at an elevation of 597 feet (32.0 feet bgs) within the silt layer. At the completion of drilling groundwater was observed at an elevation of 596 feet (33.0 feet bgs).

Overhead Sign Structure at Station 572+13 (OHS07-01 and OHS07-02)

At the surface, Boring OHS07-01 encountered eight inches of asphalt pavement over four inches of sandy loam base course. Boring OHS07-02 encountered five inches of silty clay loam topsoil. Beneath the surface, the borings encountered up to 5.1 feet of stiff to hard silty clay fill with Q_u values of 1.8 to 4.0 tsf and moisture content values of 20 to 26%.

At elevations of 620.9 and 621.7 feet (5.5 feet bgs), the borings revealed stiff to hard silty clay to the end of each borehole depth. The silty clay has Q_u values of 1.6 to 7.9 tsf and moisture content values of 16 to 30%.

Groundwater was not observed while drilling or at the completion of drilling. Sand seams were present within the silty clay unit and could be water bearing.

Overhead Sign Structure at Station 573+79 (OHS08-01, OHS08-02, and OHS08-02B)

At the surface, the borings encountered six to 36 inches of silty clay to silty clay loam topsoil. Beneath the topsoil, the borings encountered up to 6.9 feet of soft to stiff silty clay to clay fill with Q_u values of 0.3 to 2.5 tsf and moisture content values of 21 to 36%.

Below the topsoil and fill, at elevations of 617.3 to 622.9 feet (3.0 to 5.5 feet bgs), the borings revealed stiff to hard silty clay to silty clay loam to the end of each borehole depth. The silty clay to silty clay loam has Q_u values of 1.4 to 6.4 tsf and moisture content values of 11 to 23%.

Groundwater was not observed while drilling or at the completion of drilling. Sand and silt seams were present within the silty clay to silty clay loam unit and could be water bearing.

Overhead Sign Structure at Station 605+31 (OHS09-01 and OHS09-02)

At the surface, the borings revealed four to 12 inches of asphalt pavement. Beneath the pavement, the borings encountered up to 13.9 feet of stiff to hard silty clay fill with Q_u values of 1.4 to 4.5 tsf and moisture content values of 16 to 31%. At an elevation of 634.2 feet (6.9 feet bgs), Boring OHS09-02 encountered 1.1 feet of black silty clay buried topsoil. The presence of this layer most likely indicates the boundary between fill and natural soils.

Below the fill and buried topsoil, at elevations of 626.2 to 633.1 feet (8.0 to 14.3 feet bgs), the borings encountered stiff to hard silty clay to clay to the end of each borehole depth. The silty clay to clay has Q_u values of 1.6 to 5.2 tsf and moisture content values of 18 to 27%.

Groundwater was observed while drilling at an elevation of 630 feet (10.0 feet bgs) within the fill material. At the completion of drilling groundwater wasn't present within the augers. Sand and silt seams were present within the silty clay to clay unit and could be water bearing.

Overhead Sign Structure at Station 606+33 (OHS10-01 and OHS10-02)

At the surface, the borings encountered eight inches of silty clay loam and sandy loam topsoil. Beneath the topsoil, the borings encountered up to 12.3 feet of stiff to hard, silty clay fill with Q_u values of 1.5 to 5.8 tsf and moisture content values of 18 to 29%.

Below the fill, at elevations of 625.0 and 632.5 feet (8.0 and 13.0 feet bgs), the borings encountered stiff to hard silty clay to the end of each borehole depth. The silty clay has Q_u values of 1.2 to 6.2 tsf and moisture content values of 17 to 26%.

Groundwater was observed while drilling at an elevation of 632 feet (6.5 feet bgs) in a saturated silt seam within the fill. At the completion of drilling groundwater wasn't present within the augers.

Cantilever Sign Structure at Station 617+00 (OHS11-01)

At the surface, Boring OHS11-01 encountered 12 inches of asphalt pavement. Beneath the pavement, the boring encountered seven feet of stiff to very stiff silty clay fill. The fill has Q_u values of 1.9 to 2.5 tsf and moisture content values of 18 to 22%.

Below the fill, at an elevation of 632.5 feet (8.0 feet bgs), Boring OHS11-01 encountered stiff to hard silty clay to silty clay loam to the end of the borehole depth. The silty clay to silty clay loam has Q_u values of 1.0 to greater than 10.3 tsf and moisture content values of 14 to 21%.

Groundwater was not observed while drilling or at the completion of drilling.

Overhead Sign Structure at Station 617+25 (OHS13-01 and OHS13-02)

At the surface, the borings revealed seven to nine inches of silty clay loam topsoil. Beneath the topsoil, 10 to 12.2 feet of stiff to hard silty clay fill was uncovered. The fill has Q_u values of 1.1 to 4.3 tsf and moisture content values of 18 to 24%.

At elevations of 620.8 and 626.5 feet (10.5 and 13.0 feet bgs), the borings encountered very stiff to hard silty clay to silty clay loam to the bottom of each borehole. The silty clay to silty clay loam has Q_u values of 2.5 to greater than 10.3 tsf and moisture content values of 16 to 25%.

Groundwater was not observed while drilling or at the completion of drilling.

Overhead Sign Structure at Station 621+50 (OHS12-01)

At the surface, Boring OHS12-01 encountered three inches of silty clay loam topsoil. Beneath the topsoil, 12.2 feet of very stiff to hard silty clay fill was encountered. The fill has Q_u values of 2.5 to 7.2 tsf and moisture content values of 20 to 24%.

At an elevation of 613.8 feet (13.0 feet bgs), Boring OHS12-01 revealed very stiff to hard silty clay with Q_u values of 2.0 to 8.0 tsf and moisture content values of 17 to 22%. At elevations of 602.2 to 612.2 feet (14.8 to 24.7 feet bgs), 0.8 to 1.0-foot thick, wet to saturated silt to silty loam layers were encountered within the silty clay unit. At an elevation of 600.4 feet (26.4 feet bgs), a two-foot thick, medium dense, wet sand to sandy loam layer was encountered within the silty clay. The sand to sandy loam has an SPT N-value of 21 blows per foot.

Groundwater was observed while drilling at an elevation of 612 feet (14.6 feet bgs) within the silt layer. At the completion of drilling, groundwater was recorded at an elevation of 597 feet (30.0 feet bgs).

DMS/ ITS at Station 618+75 (DMS2-01 and DMS2-02)

At the surface, the borings encountered four to eight inches of silty clay loam topsoil. Below the topsoil the borings encountered up to 4.8 feet of stiff to very stiff silty clay fill. The fill has Q_u values of 1.8 to 3.0 tsf and moisture content values of 16 to 21%.

At elevations of 628.2 and 628.7 feet (3.0 and 5.5 feet bgs), the borings revealed up to 7.5 feet of stiff to very stiff clay to silty clay with Q_u values of 1.0 to 3.0 tsf and moisture content values of 23 to 29%. At elevations of 620.7 and 623.7 feet (8.0 and 13.0 feet bgs), the borings revealed very stiff to hard silty clay to silty clay loam to the end of each borehole depth. The silty clay to silty clay loam has Q_u values of 2.5 to 8.1 tsf moisture content values of 15 to 21%.

Groundwater was observed while drilling at an elevation of 626 feet (5.5 feet bgs) within sand lenses of the clay to silty clay unit. At the completion of drilling, groundwater was measured at 625 feet (7.0 feet bgs).

DMS/ ITS at Station 625+00 (DMS2-03 and DMS2-04)

At the surface, the borings uncovered six to eight inches of silty clay loam topsoil. Below the topsoil, Boring DMS2-03 revealed 2.5 feet of hard silty clay fill. The fill has a Q_u value of 5.2 tsf and a moisture content value of 19%.

At an elevation of 612.9 feet (3.0 feet bgs), Boring DMS2-03 encountered 2.5 feet of loose, wet silty loam with an SPT N-value of 6 blows per foot. At an elevation of 613.3 feet (5.5 feet bgs), Boring DMS2-04 encountered five feet of very soft to medium stiff, moist to wet clay loam. The clay loam has Q_u values of 0.2 and 0.8 tsf and moisture content values of 21%. At elevations of 608.3 and 610.4 feet (5.5 and 10.5 feet bgs), the borings revealed up to 20 feet of stiff to hard silty clay with Q_u values of 1.7 to 6.6 tsf and moisture content values of 16 to 25%. Boring DMS2-04 encountered 4.8 feet of very dense, moist silt at an elevation of 591.8 feet (27 feet bgs). The silt has a SPT N-value of 30 blows per foot. At elevations of 587.0 and 590.4 feet (25.5 and 31.8 feet bgs), the borings uncovered medium dense to very dense, damp gravelly sand to the bottom of each borehole. The gravelly sand has SPT N-values of 16 to 62 blows per foot.

Groundwater was observed while drilling at elevations of 613 feet (3.0 and 6.0 feet bgs) within the wet silt loam layer and within wet sand lenses in the clay loam layer. At the completion of drilling, groundwater was not present within the augers of either borehole.

ANALYSES AND RECOMMENDATIONS

Based on the GPE drawings, the proposed noise walls will be ground mounted. The Contractor should follow the requirements of IDOT District One Special Provision “*Ground Mounted Concrete Noise Abatement Walls (Absorptive and Reflective)*” for material, design, fabrication construction and erection requirements. Noise walls are to be designed per AASHTO Section 15, 2020.

Base soil parameters for Noise Walls 15, 16, 17, 19 and 20 are provided in Tables 5 through 9.

Table 5: Recommended Soil Parameters for Noise Wall 15

Soil Description	Moist Unit Weight (pcf)	Shear Strength Properties			
		Short Term		Long Term	
		Cohesion	Friction	Cohesion	Friction
		Cu (psf)	Angle, ϕ (Degree)	Cu' (psf)	Angle, ϕ' (Degree)
Medium Stiff Cohesive (Qu 0.5 to .99 tsf)	115	900	0	50	30
Stiff Cohesive (Qu 1.0 to 1.99 tsf)	120	1400	0	100	30
Very Stiff Cohesive (Qu 2.0 to 3.99 tsf)	120	3000	0	100	31
Hard Cohesive (Qu greater than 4.0 tsf)	120	5000	0	100	32

Table 6: Recommended Soil Parameters for Noise Wall 16

Soil Description	Moist Unit Weight (pcf)	Shear Strength Properties			
		Short Term		Long Term	
		Cohesion	Friction	Cohesion	Friction
		Cu (psf)	Angle, ϕ (Degree)	Cu' (psf)	Angle, ϕ' (Degree)
Soft Cohesive (Qu 0.25 to .49 tsf)	110	400	0	0	28
Medium Stiff Cohesive	115	750	0	50	29

Soil Description	Moist Unit Weight (pcf)	Shear Strength Properties			
		Short Term		Long Term	
		Cohesion	Friction	Cohesion	Friction
		Cu (psf)	Angle, ϕ (Degree)	Cu' (psf)	Angle, ϕ' (Degree)
(Qu 0.5 to .99 tsf)					
Stiff Cohesive (Qu 1.0 to 1.99 tsf)	120	1600	0	100	30
Very Stiff Cohesive (Qu 2.0 to 3.99 tsf)	120	2800	0	100	31
Hard Cohesive (Qu greater than 4.0 tsf)	120	5000	0	100	32
Medium Dense Granular (N 10 to 29)	120	0	32	0	30
Dense Granular (N 30 to 49)	120	0	34	0	32

Table 7: Recommended Soil Parameters for Noise Wall 17

Soil Description	Moist Unit Weight (pcf)	Shear Strength Properties			
		Short Term		Long Term	
		Cohesion	Friction	Cohesion	Friction
		Cu (psf)	Angle, ϕ (Degree)	Cu' (psf)	Angle, ϕ' (Degree)
Medium Stiff Cohesive (Qu 0.5 to .99 tsf)	115	550	0	50	29
Stiff Cohesive (Qu 1.0 to 1.99 tsf)	120	1400	0	100	30
Very Stiff Cohesive (Qu 2.0 to 3.99 tsf)	120	2900	0	100	31
Hard Cohesive (Qu greater than 4.0 tsf)	120	5000	0	100	32
Loose Granular (N 4 to 9)	115	0	28	0	28

Soil Description	Moist Unit Weight (pcf)	Shear Strength Properties			
		Short Term		Long Term	
		Cohesion	Friction	Cohesion	Friction
		Cu (psf)	Angle, ϕ (Degree)	Cu' (psf)	Angle, ϕ ' (Degree)
Medium Dense Granular (N 10 to 29)	120	0	32	0	32

Table 8: Recommended Soil Parameters for Noise Wall 19

Soil Description	Moist Unit Weight (pcf)	Shear Strength Properties			
		Short Term		Long Term	
		Cohesion	Friction	Cohesion	Friction
		Cu (psf)	Angle, ϕ (Degree)	Cu' (psf)	Angle, ϕ ' (Degree)
Medium Stiff Cohesive (Qu 0.5 to .99 tsf)	115	750	0	50	29
Stiff Cohesive (Qu 1.0 to 1.99 tsf)	120	1500	0	100	30
Very Stiff Cohesive (Qu 2.0 to 3.99 tsf)	120	2800	0	100	31
Hard Cohesive (Qu greater than 4.0 tsf)	120	5000	0	100	32
Medium Dense Granular (N 10 to 29)	120	0	32	0	30
Dense Granular (N 30 to 49)	120	0	34	0	32
Very Dense Granular (N 50 to 80+)	125	0	36	0	33

Table 9: Recommended Soil Parameters for Noise Wall 20

Soil Description	Moist Unit Weight (pcf)	Shear Strength Properties			
		Short Term		Long Term	
		Cohesion Cu (psf)	Friction Angle, ϕ (Degree)	Cohesion Cu' (psf)	Friction Angle, ϕ ' (Degree)
Medium Stiff Cohesive (Qu 0.5 to .99 tsf)	115	700	0	50	29
Stiff Cohesive (Qu 1.0 to 1.99 tsf)	120	1400	0	100	30
Very Stiff Cohesive (Qu 2.0 to 3.99 tsf)	120	2900	0	100	31
Hard Cohesive (Qu greater than 4.0 tsf)	120	5000	0	100	32
Medium Dense Granular (N 10 to 29)	120	0	32	0	30
Dense Granular (N 30 to 49)	120	0	34	0	32
Very Dense Granular (N 50 to 80+)	125	0	36	0	33

IDOT *Sign Structure Manual* provides the sign structure foundations details for various standard sign structures based on the presence of mostly cohesive soils with an average Q_u value of at least 1.0 tsf for spread footings and 1.25 tsf for drilled shaft foundations. The sign structure drawings provided by TranSystems indicate the proposed sign structures will be supported on drilled shafts.

Based on the encountered soil conditions, we estimate the IDOT standard drilled shaft foundation schedules can be used for the proposed cantilever sign structures and overhead sign structures.

CONSTRUCTION CONSIDERATIONS

Excavations should be performed in accordance with local, state, and federal regulations. The potential effect of ground movements upon nearby utilities should be considered during construction.

Drilled shafts should be constructed in accordance with 2022 IDOT Standard Specifications for Road and Bridge Construction Section 516, *Drilled Shafts*. Groundwater may be encountered during drilled shaft excavations; therefore, the contractor should be prepared to use slurry and/or temporary casing during drilled shaft installations.

Rock socketed drilled shafts may be required to achieve fixity. The Contractor should have their means and methods for bedrock excavation.

It has been a pleasure to assist TranSystems Corporation, and the Illinois Department of Transportation for this project. If you have any questions, please do not hesitate to contact us.

Respectfully Submitted,

WANG ENGINEERING, INC.

Jessica Bensen, P.G.
Project Geologist

Andri Kurnia, P.E.
Senior Engineer

Mohammed Kothawala, P.E., D.GE.
QC/QA Reviewer

Attachments:

Exhibit 1: Site Location Map

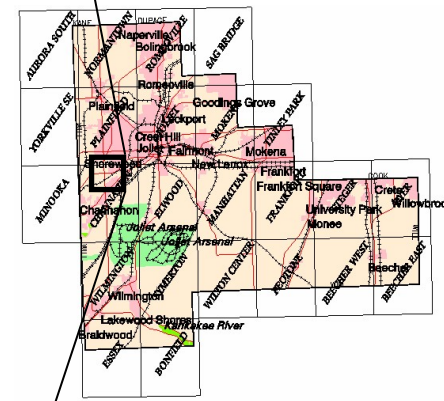
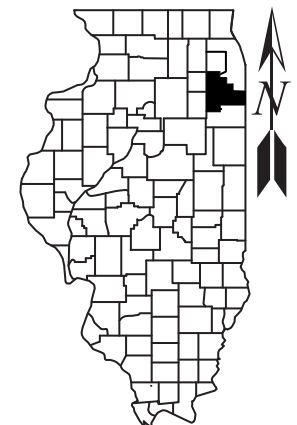
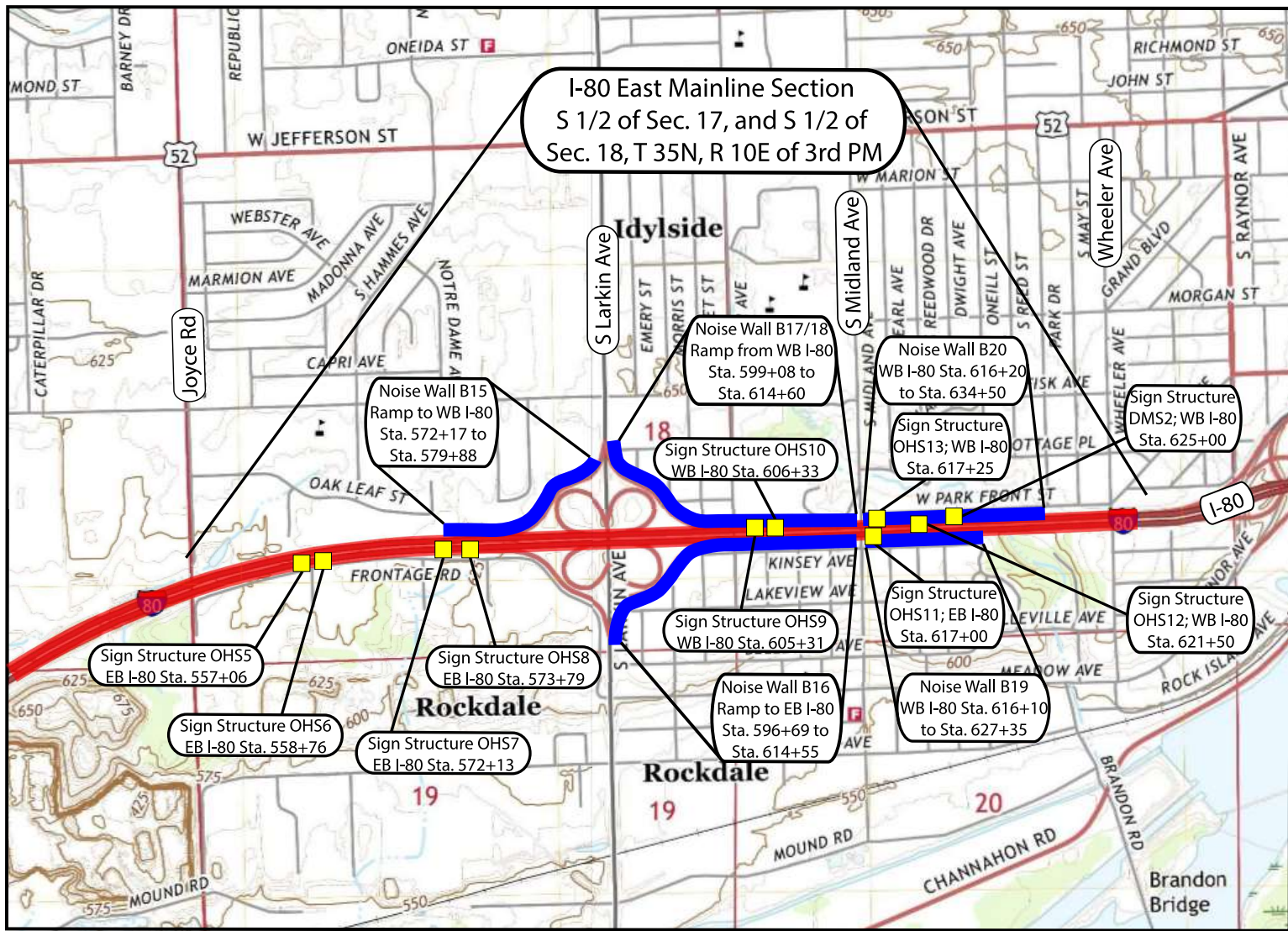
Exhibit 2: Boring Location Plan

Exhibit 3: Soil Profile

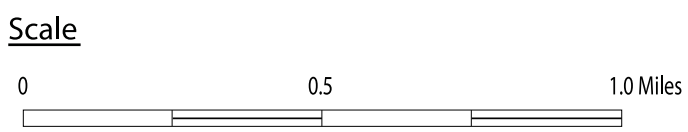
Appendix A: Boring Logs

Appendix B: Laboratory Test Results

EXHIBITS



Will County



SITE LOCATION MAP: I-80 EAST MAINLINE, CONTRACT 62R89; I-80 RECONSTRUCTION FROM HOUBOLT ROAD TO WEST OF CENTER STREET & LARKIN AVENUE INTERCHANGE, WILL COUNTY, ILLINOIS		
SCALE: GRAPHICAL	EXHIBIT 1	DRAWN BY: D. You CHECKED BY: A. Kurnia
<p>Wang Engineering A Terracon Company</p>		1145 N. Main Street Lombard, IL 60148 www.wangeng.com
		FOR TRANSYSTEMS



Legend

○ Sign Structure Boring

0 150 300 Feet



BORING LOCATION PLAN: I-80 EAST MAINLINE, CONTRACT 62R89; I-80 RECONSTRUCTION FROM HOUBOLT ROAD TO WEST OF CENTER STREET & LARKIN AVENUE INTERCHANGE, WILL COUNTY, ILLINOIS

SCALE: GRAPHICAL

EXHIBIT 2-1

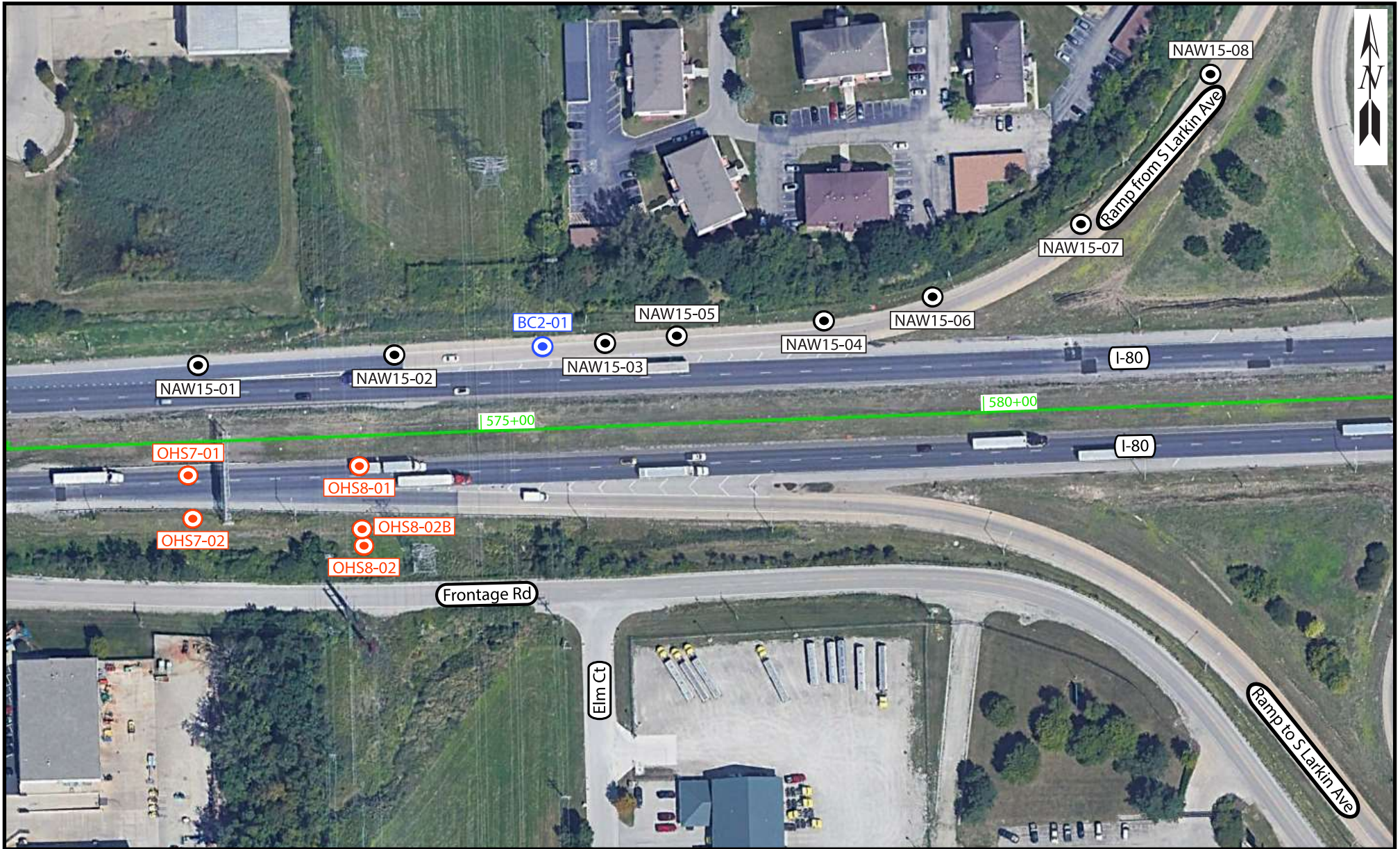
DRAWN BY: D. You
CHECKED BY: A. Kurmia



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KE225089
7901-15-01



Legend

- Noise Wall Boring
- Sign Structure Boring
- Culvert Boring

0 150 300 Feet



BORING LOCATION PLAN: I-80 EAST MAINLINE, CONTRACT 62R89; I-80 RECONSTRUCTION FROM HOUBOLT ROAD TO WEST OF CENTER STREET & LARKIN AVENUE INTERCHANGE, WILL COUNTY, ILLINOIS

SCALE: GRAPHICAL

EXHIBIT 2-2

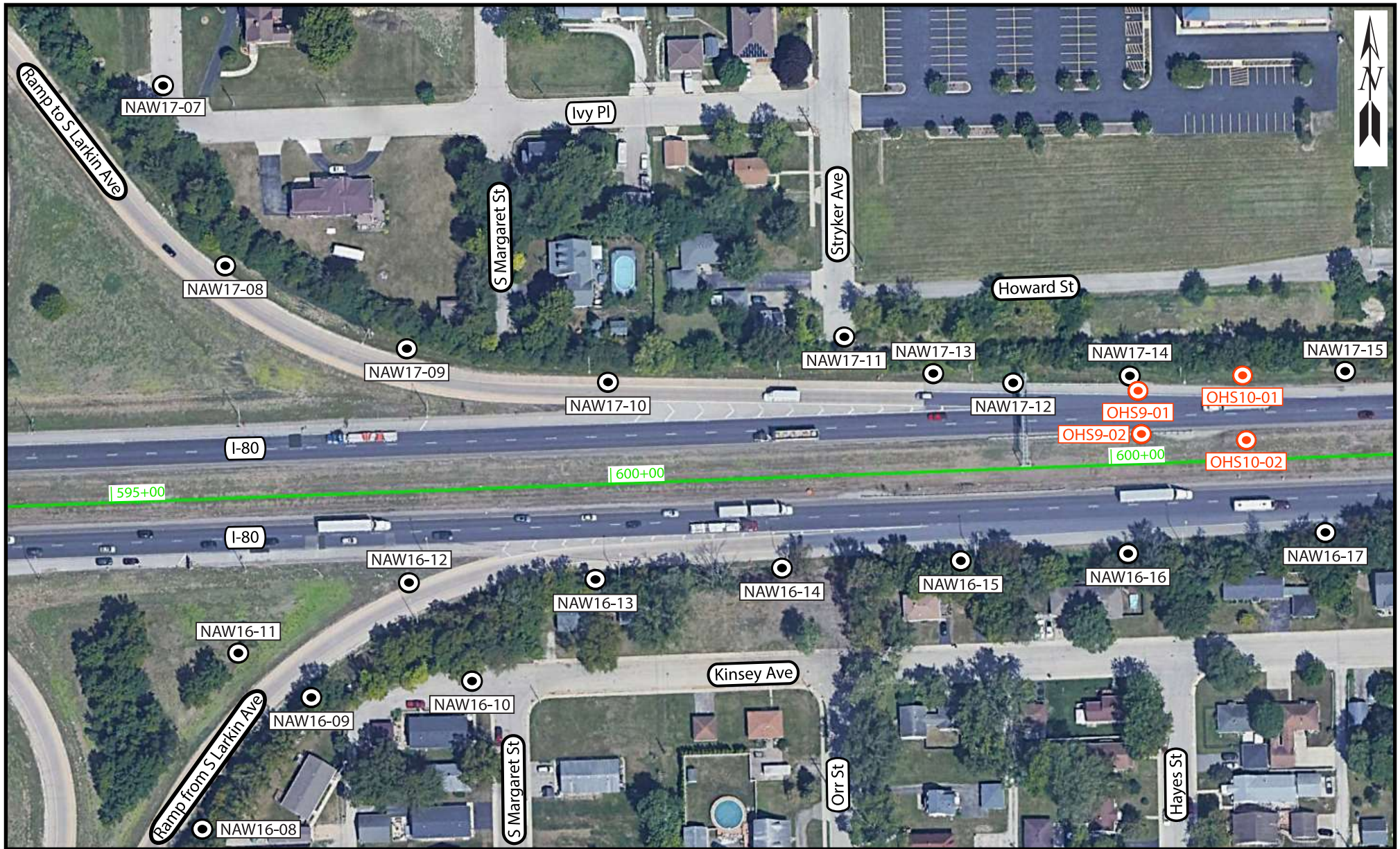
DRAWN BY: D. You
CHECKED BY: A. Kurmia



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KE225089
7901-15-01



Legend

- Noise Wall Boring
- Sign Structure Boring

0 150 300 Feet



BORING LOCATION PLAN: I-80 EAST MAINLINE, CONTRACT 62R89; I-80 RECONSTRUCTION FROM HOUBOLT ROAD TO WEST OF CENTER STREET & LARKIN AVENUE INTERCHANGE, WILL COUNTY, ILLINOIS

SCALE: GRAPHICAL

EXHIBIT 2-3

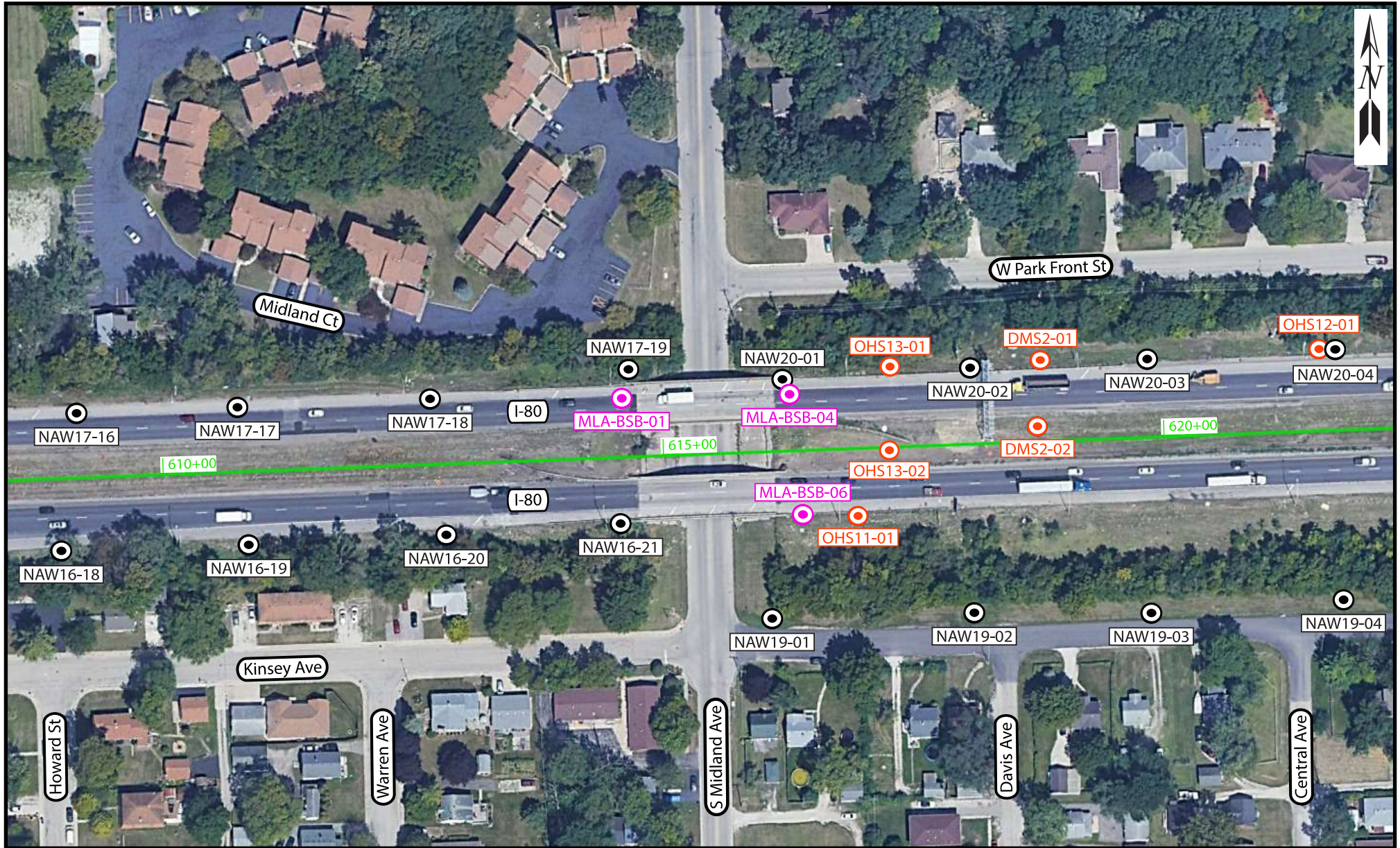
DRAWN BY: D. You
CHECKED BY: A. Kurmia






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KE225089
7901-15-01



Legend

-  Noise Wall Boring
-  Sign Structure Boring
-  Bridge Boring

0 150 300 Feet



BORING LOCATION PLAN: I-80 EAST MAINLINE, CONTRACT 62R89; I-80 RECONSTRUCTION FROM HOUBOLT ROAD TO WEST OF CENTER STREET & LARKIN AVENUE INTERCHANGE, WILL COUNTY, ILLINOIS

SCALE: GRAPHICAL

EXHIBIT 2-4

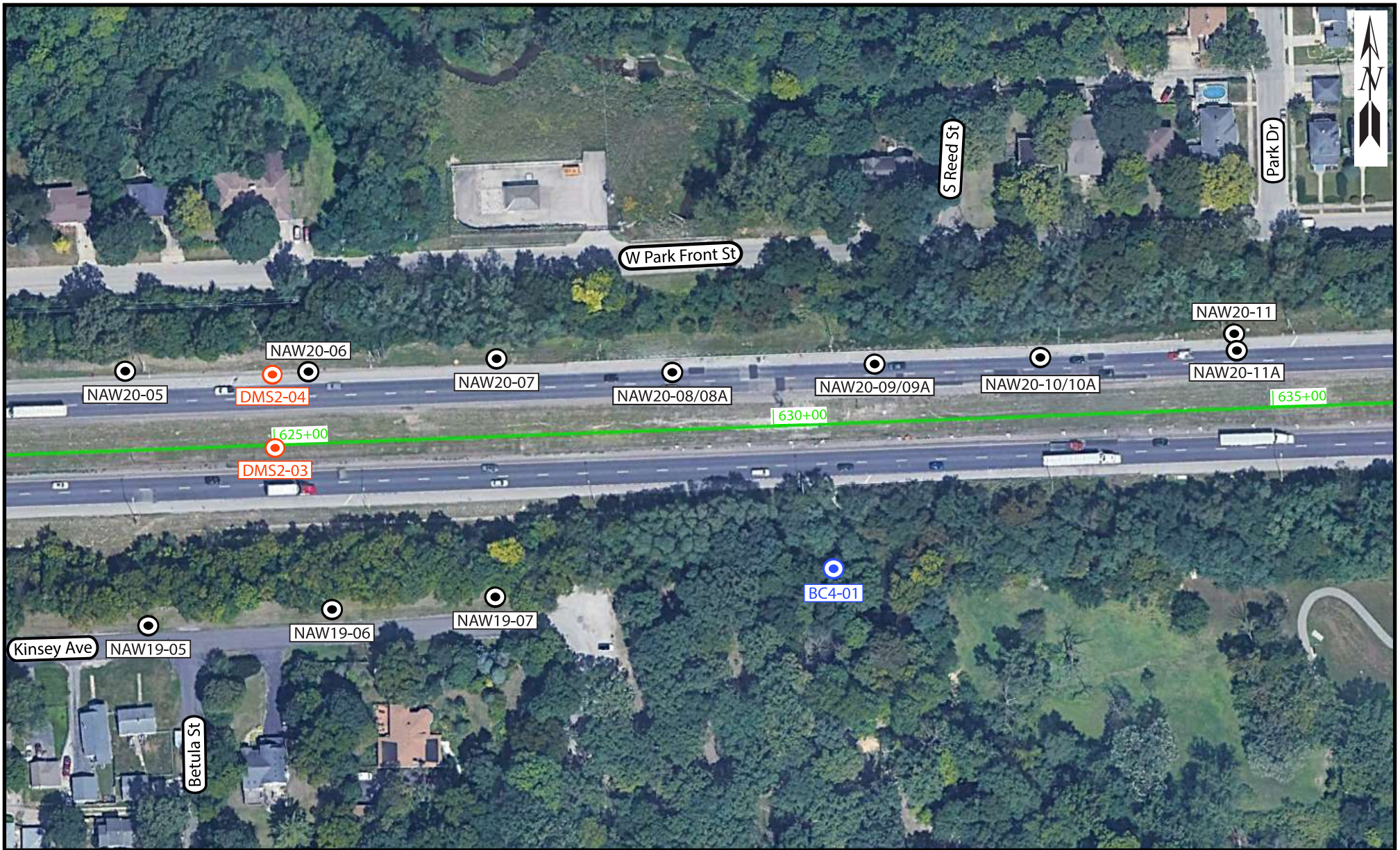
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CHECKED BY: A. Kurmia






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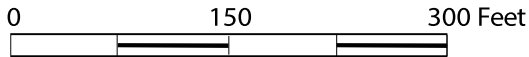
FOR TRANSYSTEMS

KE225089
7901-15-01



Legend

-  Noise Wall Boring
-  Sign Structure Boring
-  Culvert Boring



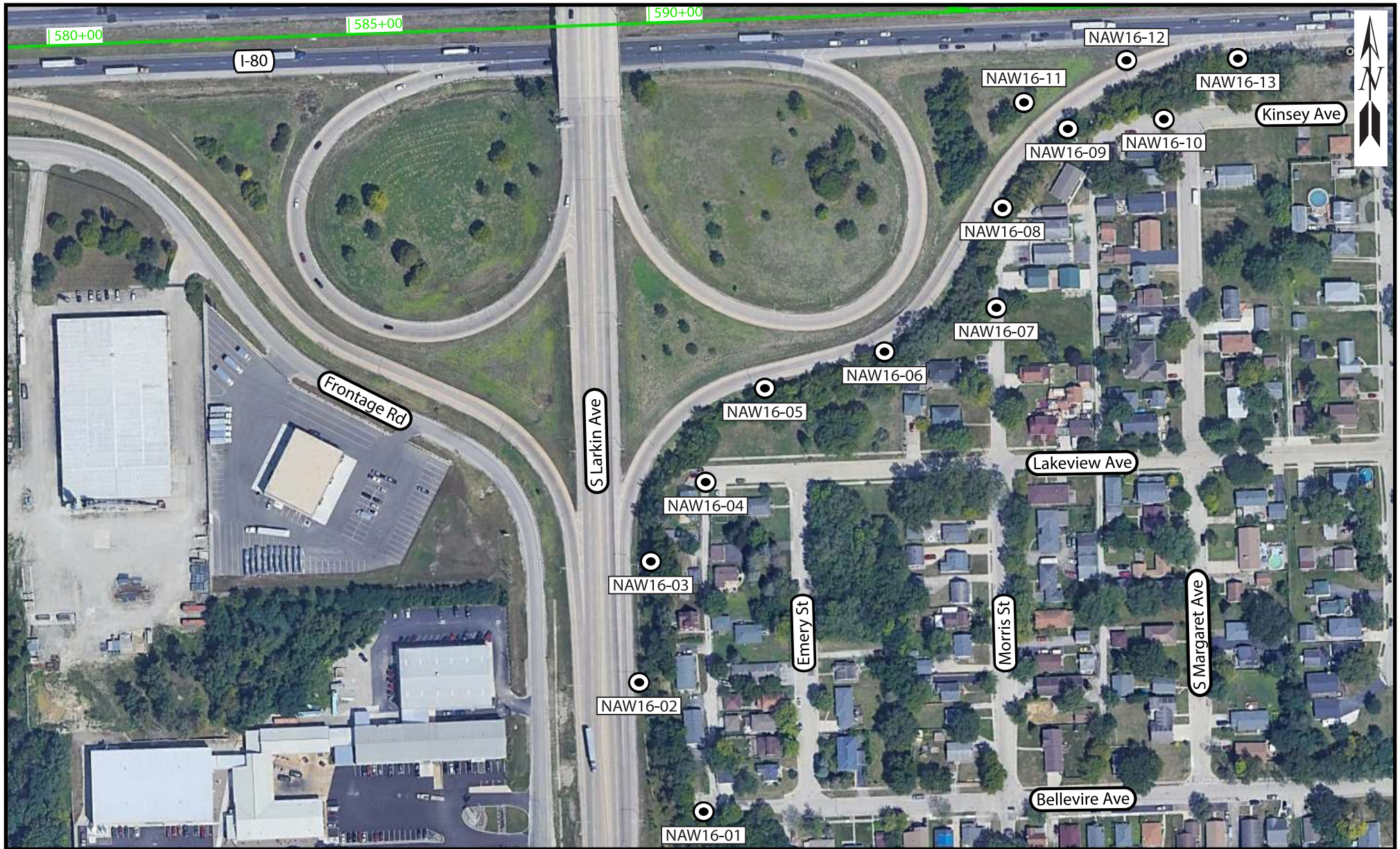
BORING LOCATION PLAN: I-80 EAST MAINLINE, CONTRACT 62R89; I-80 RECONSTRUCTION FROM HOUBOLT ROAD TO WEST OF CENTER STREET & LARKIN AVENUE INTERCHANGE, WILL COUNTY, ILLINOIS

SCALE: GRAPHICAL	EXHIBIT 2-5	DRAWN BY: D. You CHECKED BY: A. Kurmia
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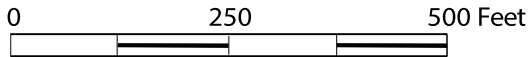
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Legend

⊙ Noise Wall Boring



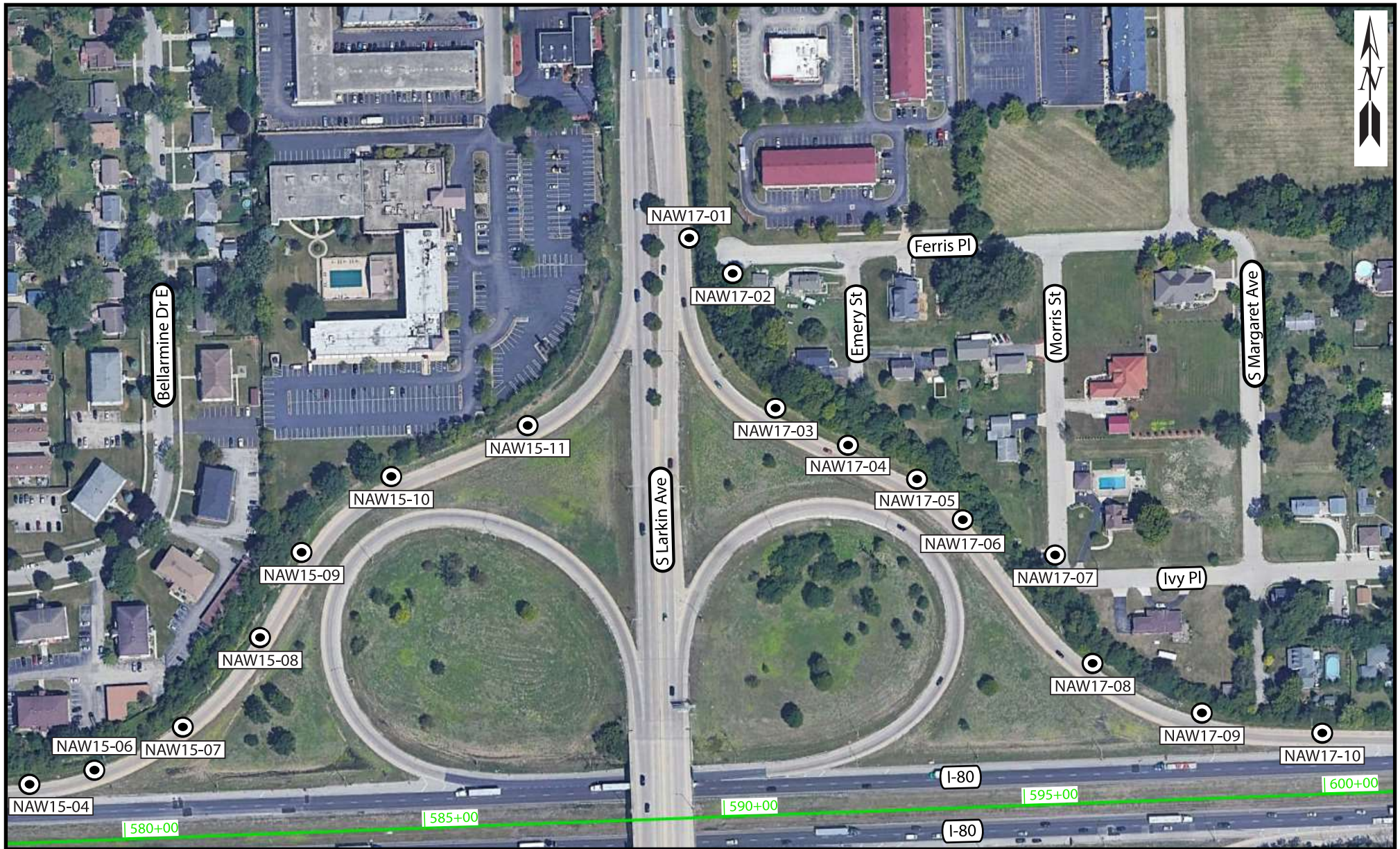
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SCALE: GRAPHICAL	EXHIBIT 2-6	DRAWN BY: D. You CHECKED BY: A. Kurmia
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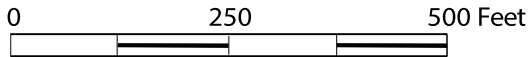
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Legend

⊙ Noise Wall Boring



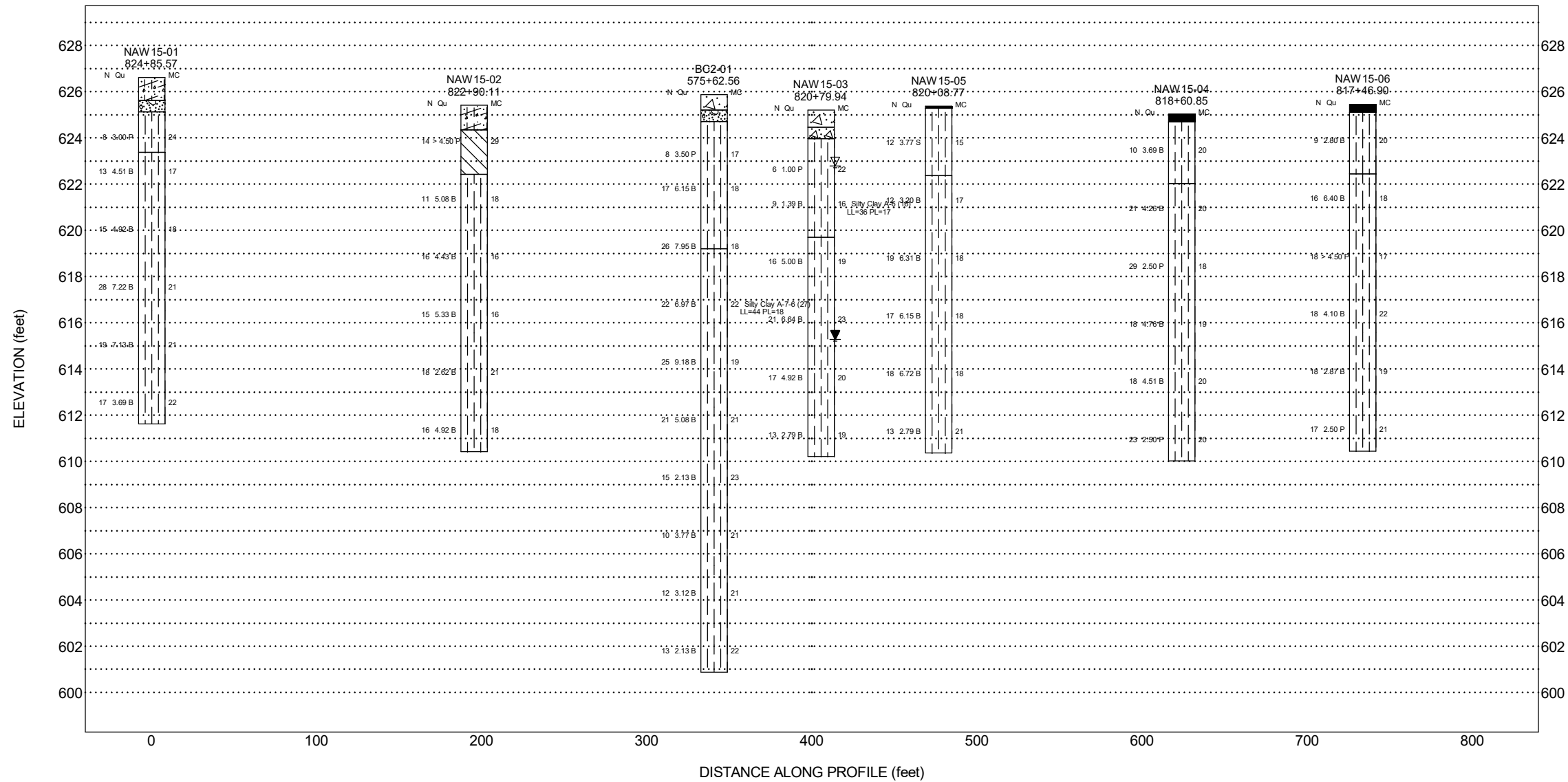
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SCALE: GRAPHICAL	EXHIBIT 2-6	DRAWN BY: D. You CHECKED BY: A. Kurmia
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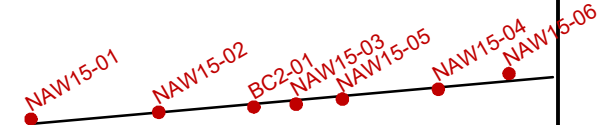
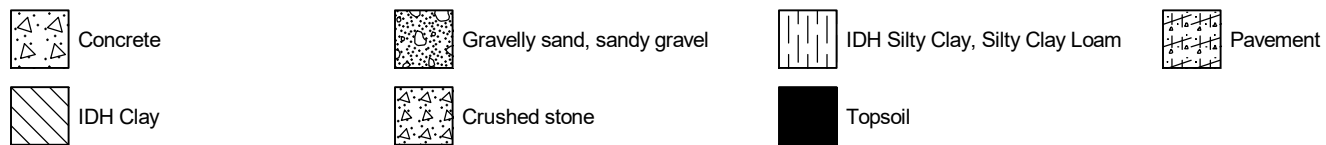


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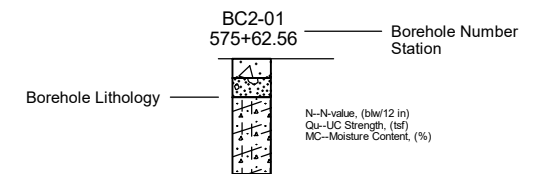


Lithology Graphics

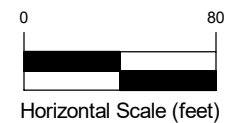


Site Map Scale 1 inch equals 295 feet

Explanation:



- Water Level Reading at time of drilling.
- Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 14x

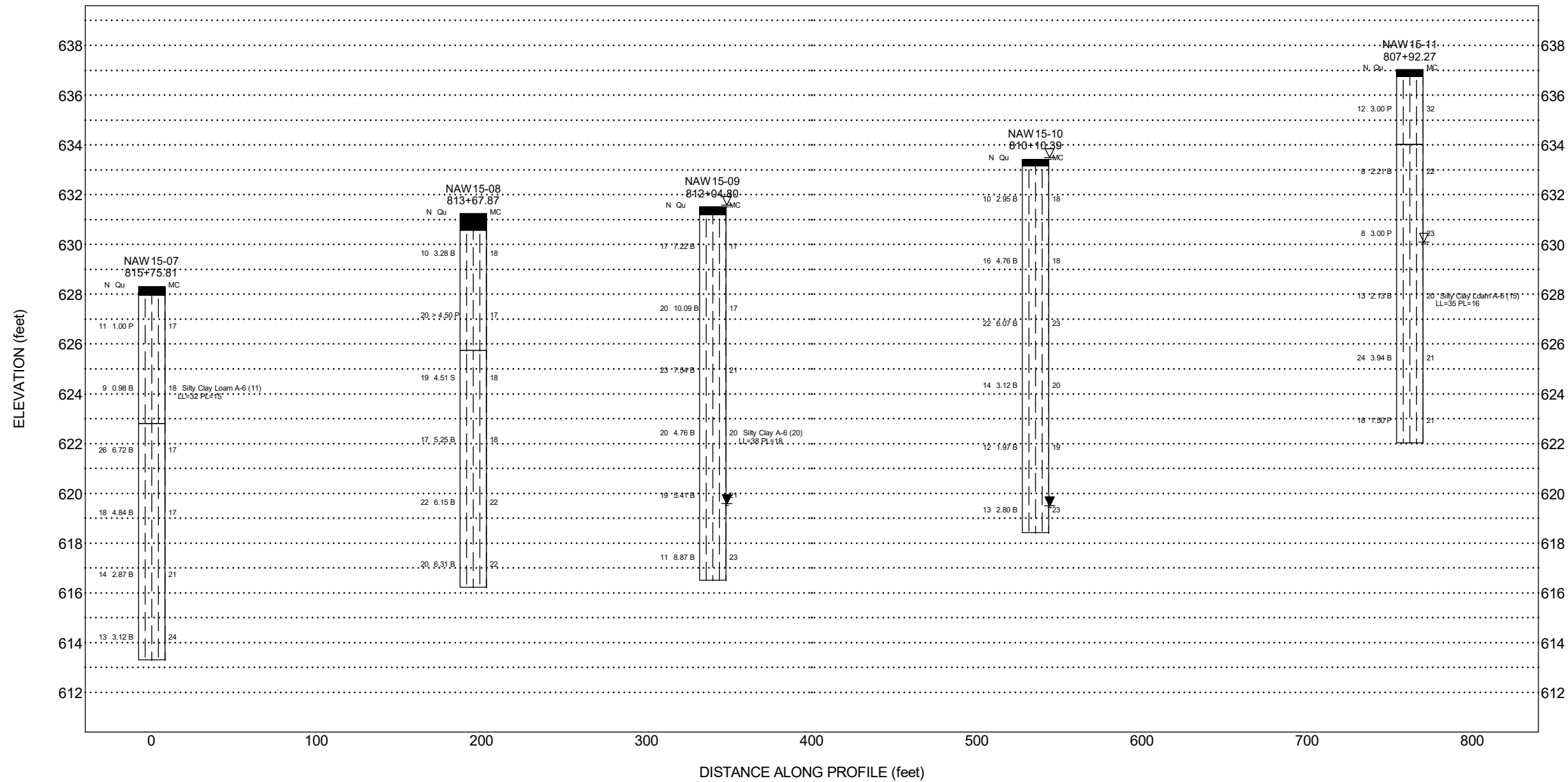
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**Soil Profile
Noise Wall 15**



I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-1



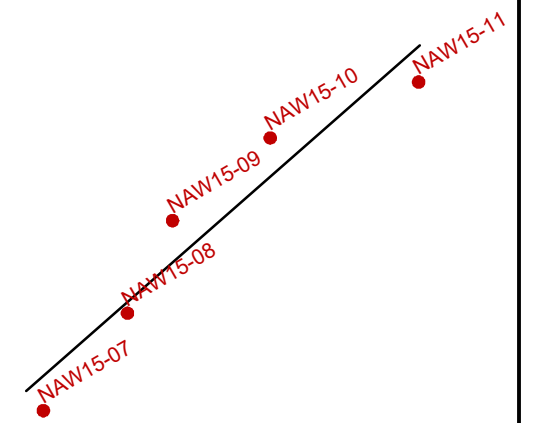
Lithology Graphics



Topsoil

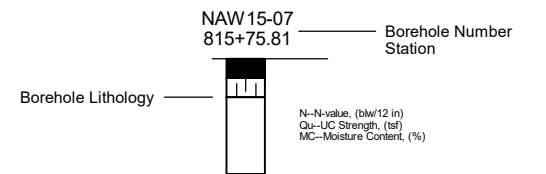


IDH Silty Clay, Silty Clay Loam

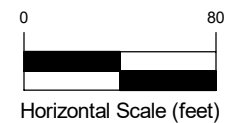


Site Map Scale 1 inch equals 295 feet

Explanation:



- Water Level Reading at time of drilling.
- Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 15x

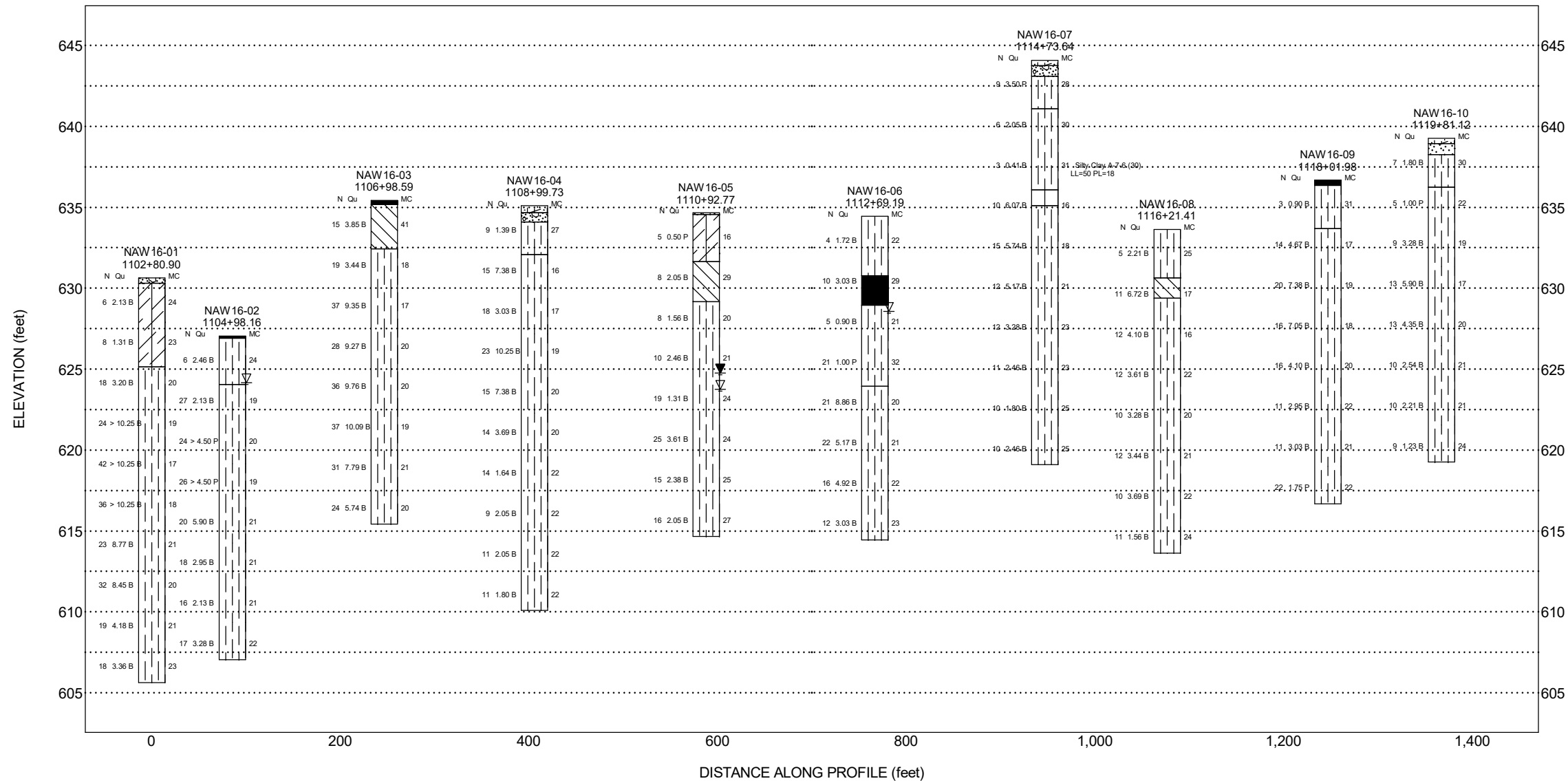
Terracon
1145 N. Main Street
Lombard, IL 60148

**Soil Profile
Noise Wall 15**

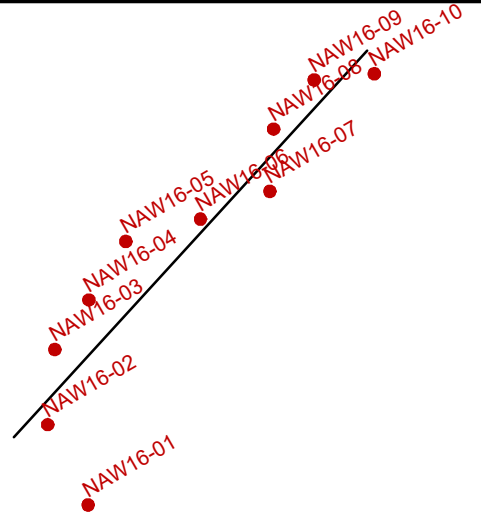
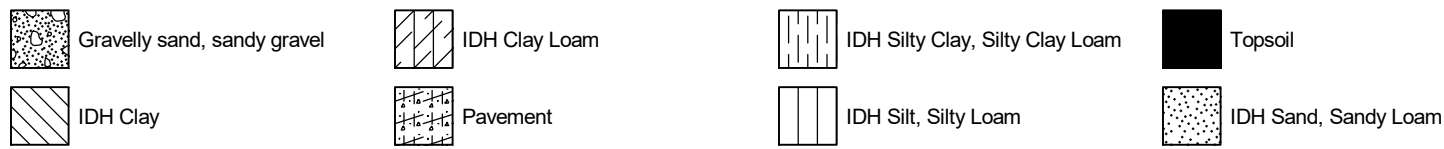


I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-2

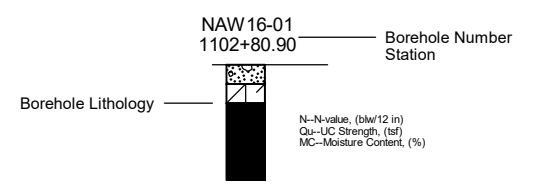


Lithology Graphics

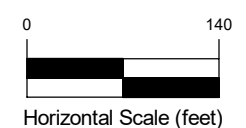


Site Map Scale 1 inch equals 515 feet

Explanation:



- Water Level Reading at time of drilling.
- Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 17x

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Soil Profile Noise Wall 16

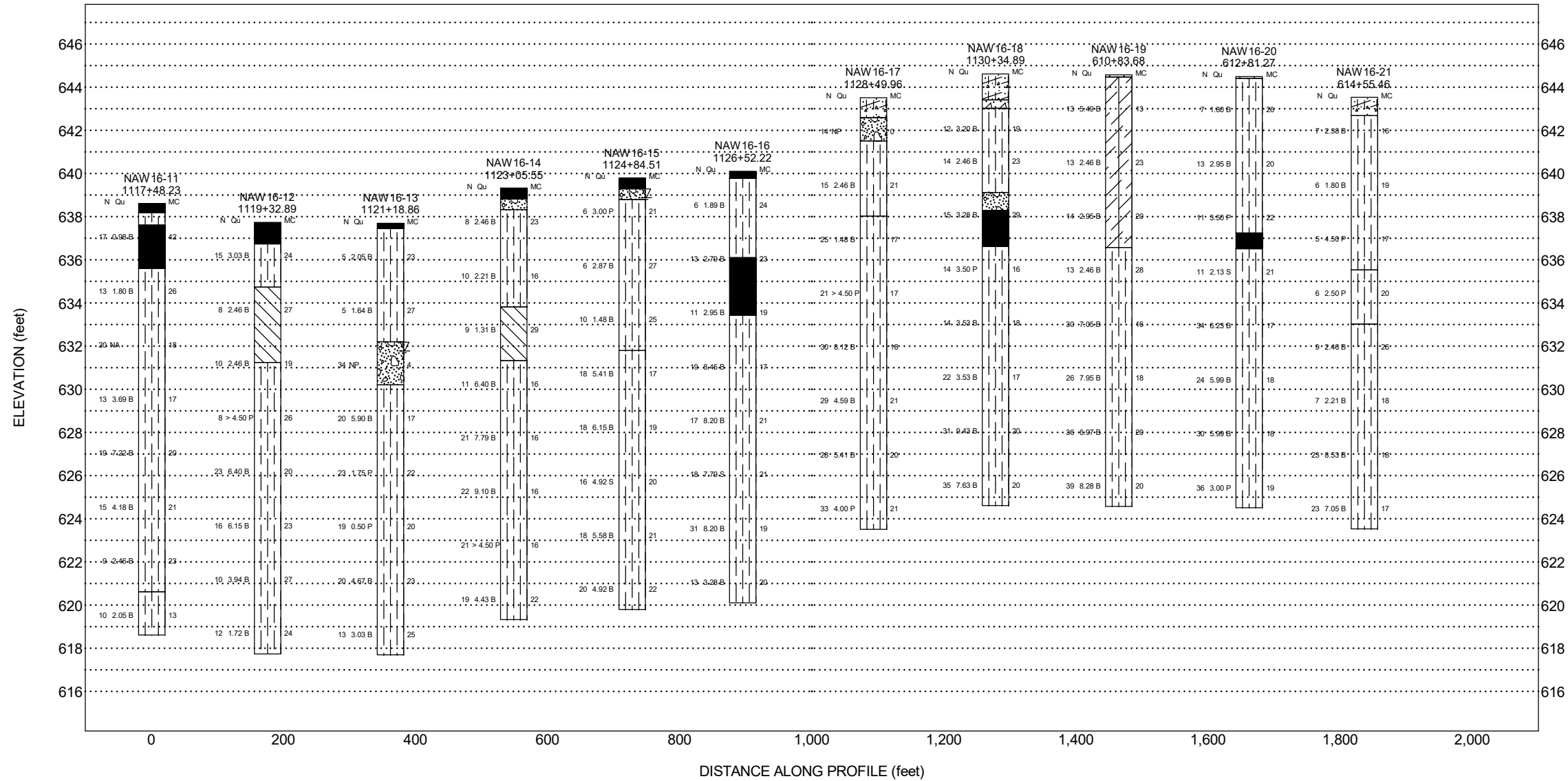


I-80 Reconstruction (Houbolt Rd to Center St)
 Will County, Illinois

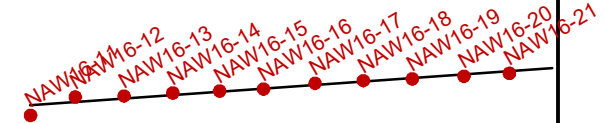
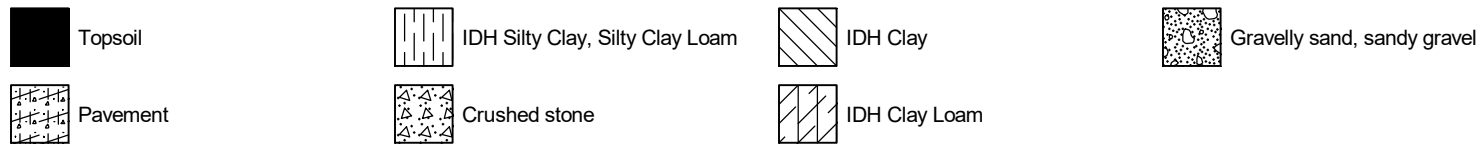
JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-3



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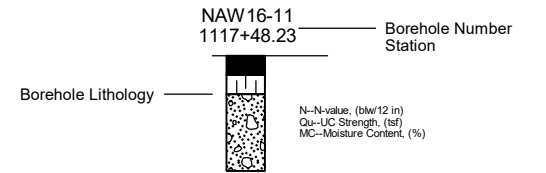


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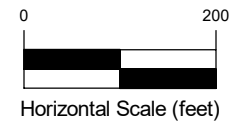


Site Map Scale 1 inch equals 735 feet

Explanation:



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- Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 32.5x

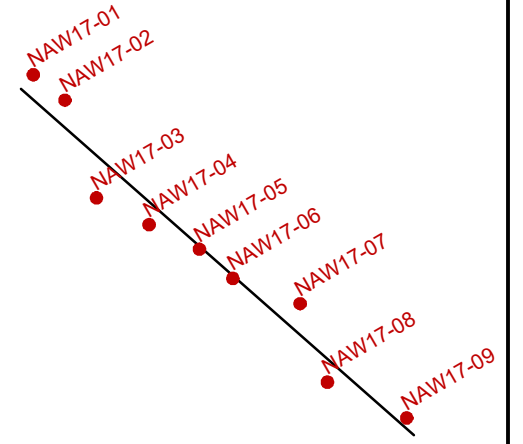
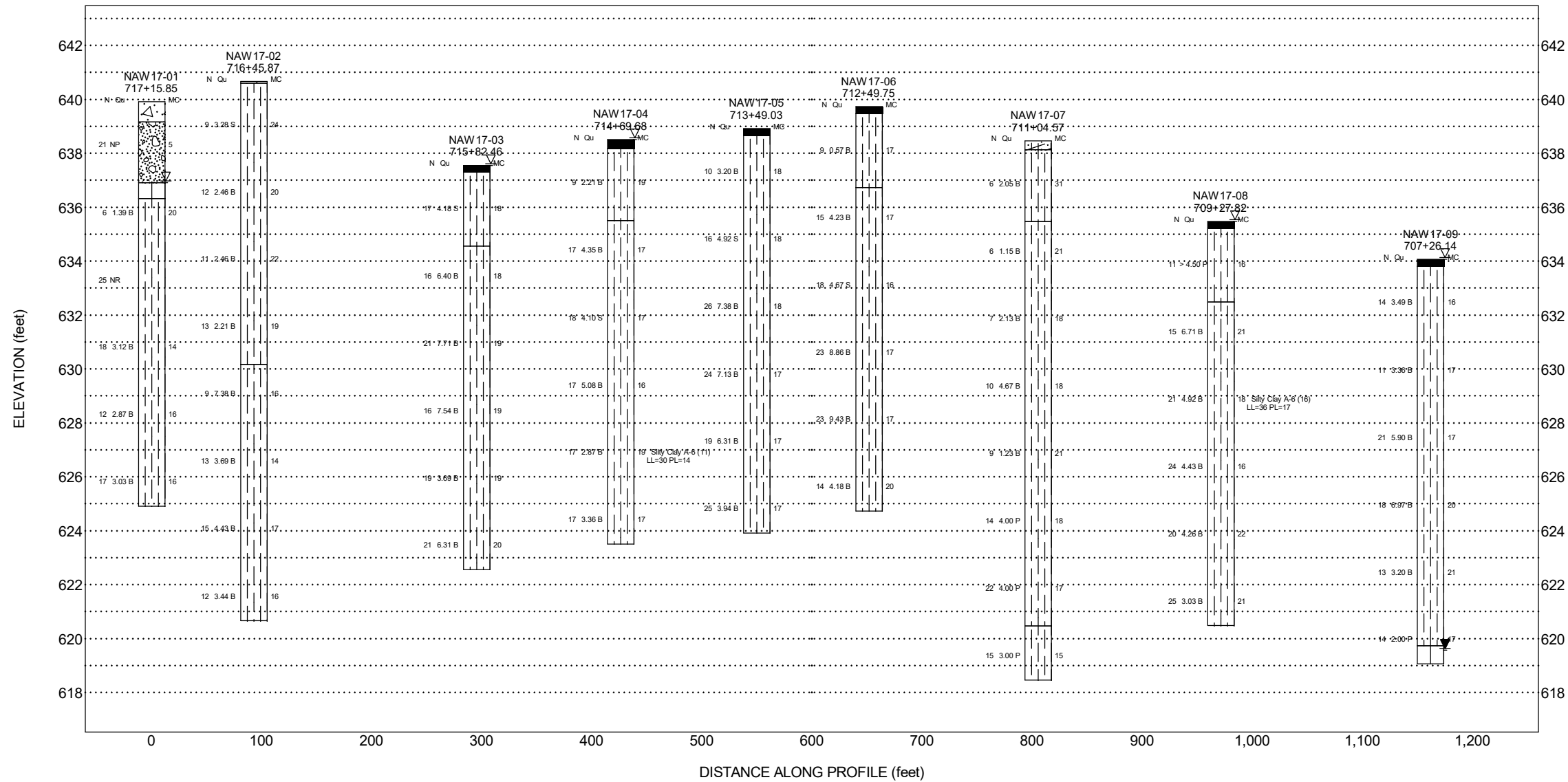
Terracon
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 Lombard, IL 60148

Soil Profile Noise Wall 16

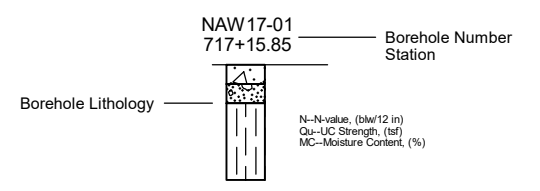


I-80 Reconstruction (Houbolt Rd to Center St)
 Will County, Illinois

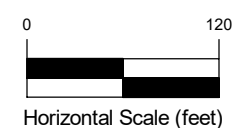
JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-4



Explanation:



- Water Level Reading at time of drilling.
- Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 24.5x

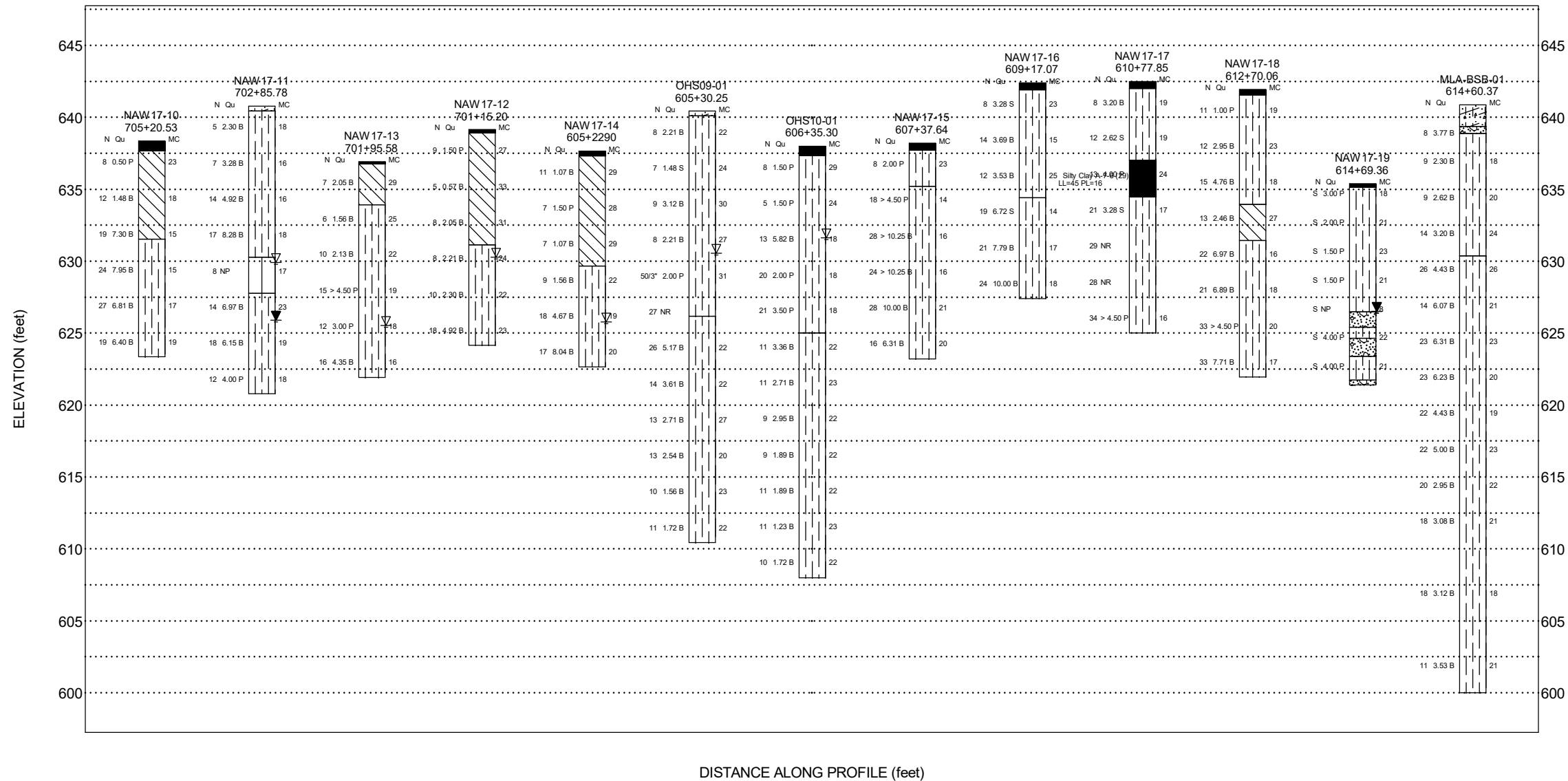
Terracon
1145 N. Main Street
Lombard, IL 60148

**Soil Profile
Noise Wall 17**



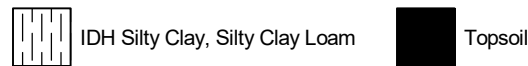
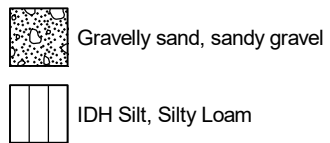
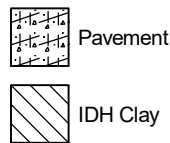
I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-5



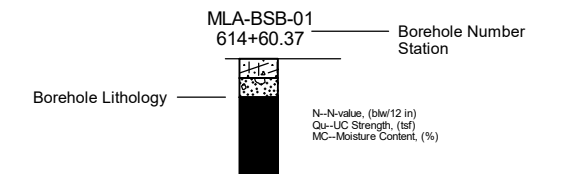
DISTANCE ALONG PROFILE (feet)

Lithology Graphics

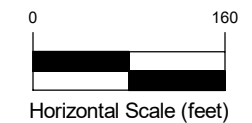


Site Map Scale 1 inch equals 585 feet

Explanation:



- Water Level Reading at time of drilling.
- Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 17.5x

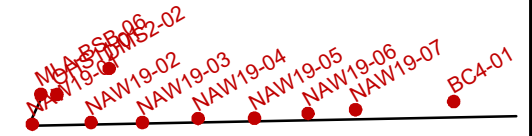
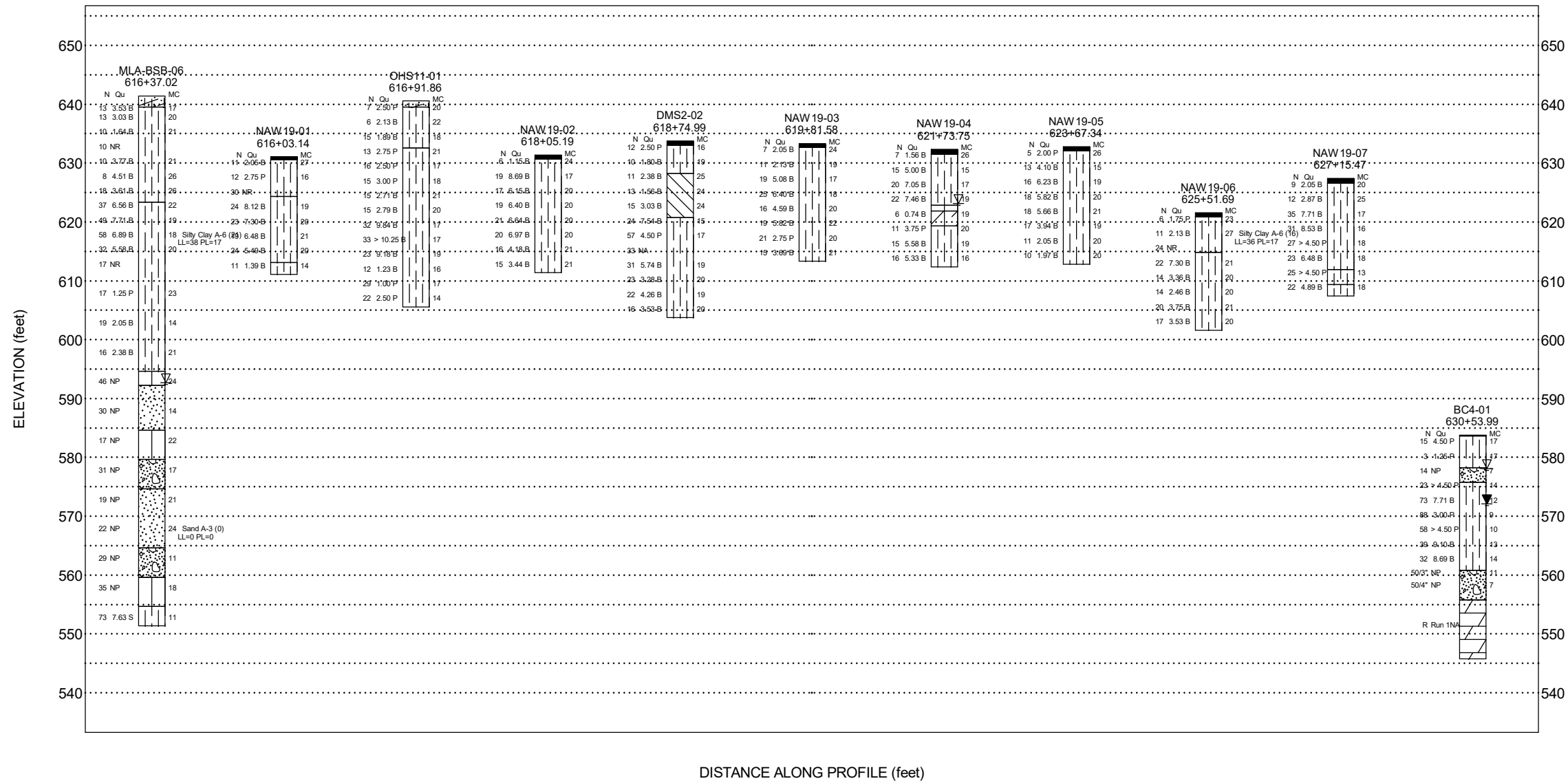
Terracon
1145 N. Main Street
Lombard, IL 60148

**Soil Profile
Noise Wall 17**



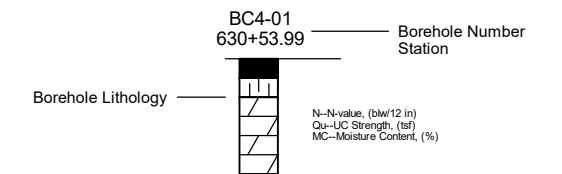
I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-6

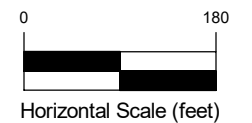


Site Map Scale 1 inch equals 660 feet

Explanation:



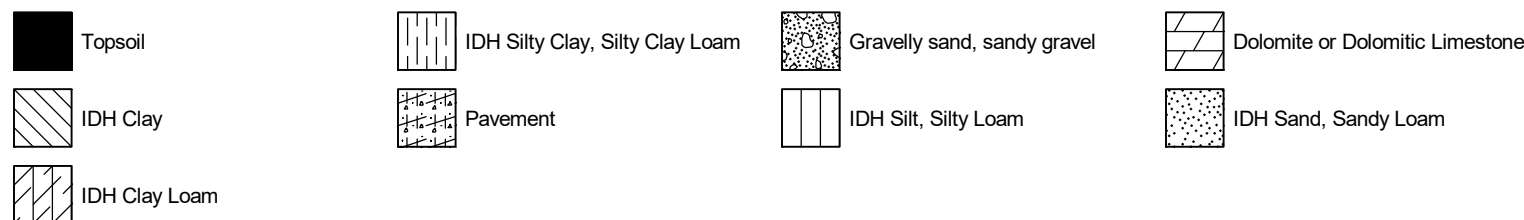
- Water Level Reading at time of drilling.
- Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 8x

DISTANCE ALONG PROFILE (feet)

Lithology Graphics



Terracon
1145 N. Main Street
Lombard, IL 60148

Soil Profile Noise Wall 19

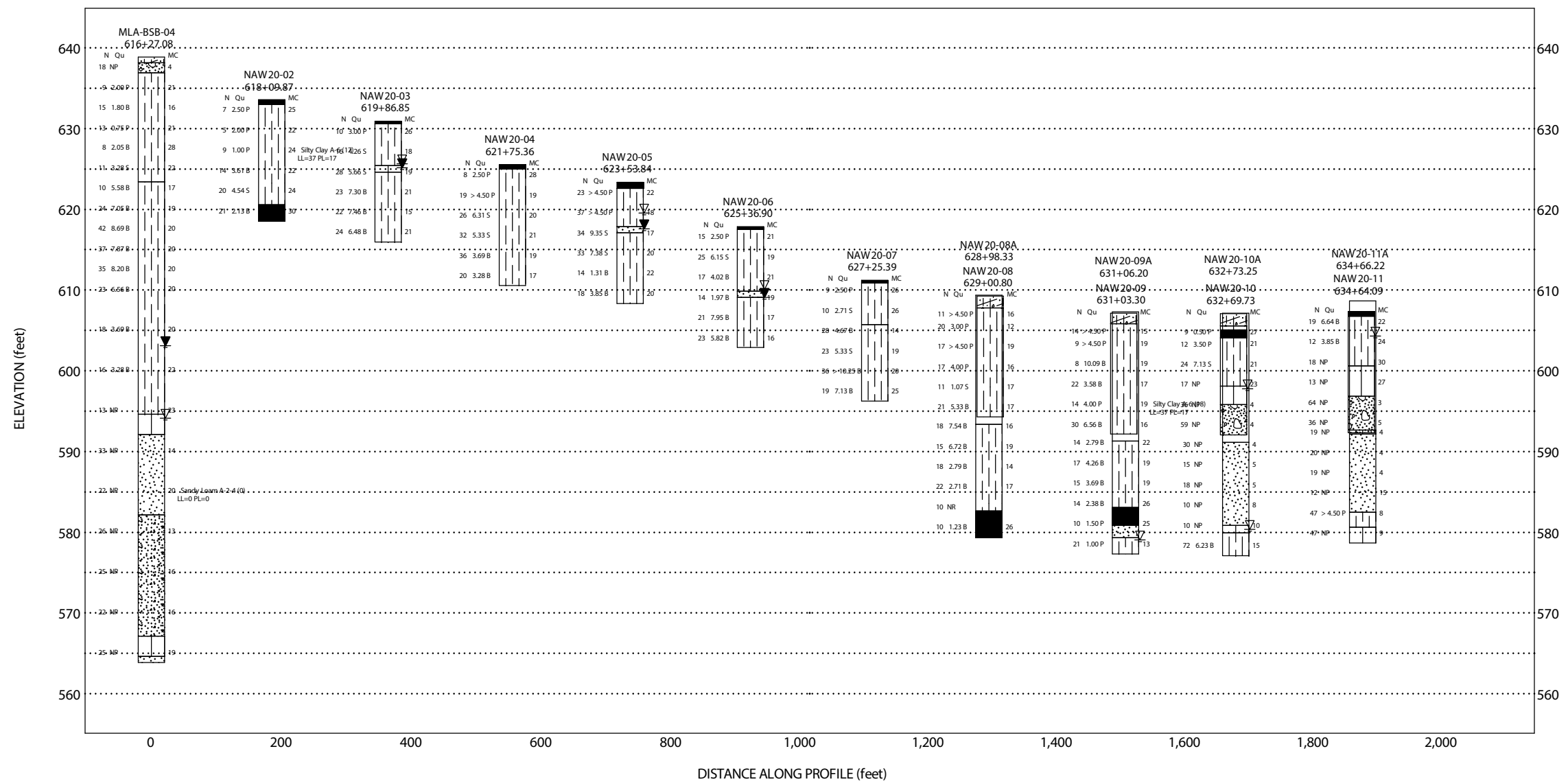


I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-7

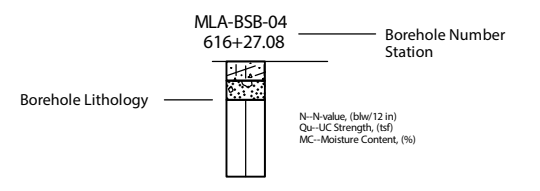


MLA-BSB-04
NAW20-02
NAW20-03
NAW20-04
NAW20-05
NAW20-06
NAW20-07
NAW20-08A
NAW20-09A
NAW20-10A
NAW20-11A

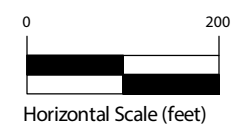


Site Map Scale 1 inch equals 735 feet

Explanation:



- Water Level Reading at time of drilling.
- Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 12.5x

Terracon
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Lombard, IL 60148

Soil Profile
Noise Wall 20



I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-8

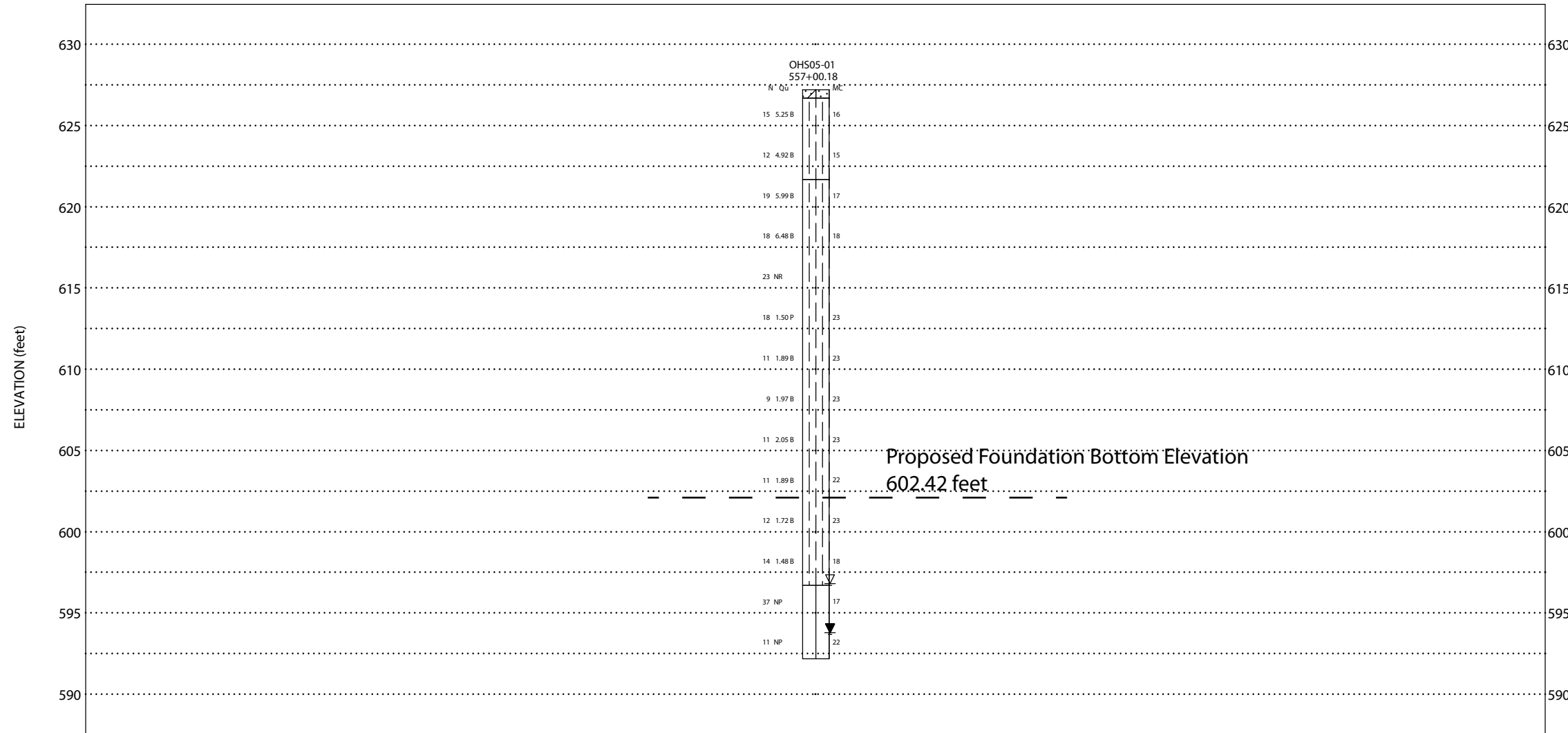
WEI11X17 79011501.GPJ WANGENG.GDT 6/6/23

Lithology Graphics

Pavement	Gravelly sand, sandy gravel	IDH Silty Clay, Silty Clay Loam	IDH Silt, Silty Loam
IDH Sand, Sandy Loam	Coarse sand	Topsoil	



N



Proposed Foundation Bottom Elevation
602.42 feet

DISTANCE ALONG PROFILE (feet)

Lithology Graphics

 IDH Loam
  IDH Silty Clay, Silty Clay Loam
  IDH Silt, Silty Loam

Site Map Scale 1 inch equals 0 feet



Explanation:

OHS05-01
557+00.18

Borehole Number Station

Borehole Lithology

N-N-value, (blw/12 in)
Qu-UC Strength, (tsf)
MC-Moisture Content, (%)

-  Water Level Reading at time of drilling.
-  Water Level Reading 24-hr after drilling or at end of drilling



Horizontal Scale (feet)

Vertical Exaggeration: 0x

Terracon
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Lombard, IL 60148

Soil Profile
OHS 5



I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

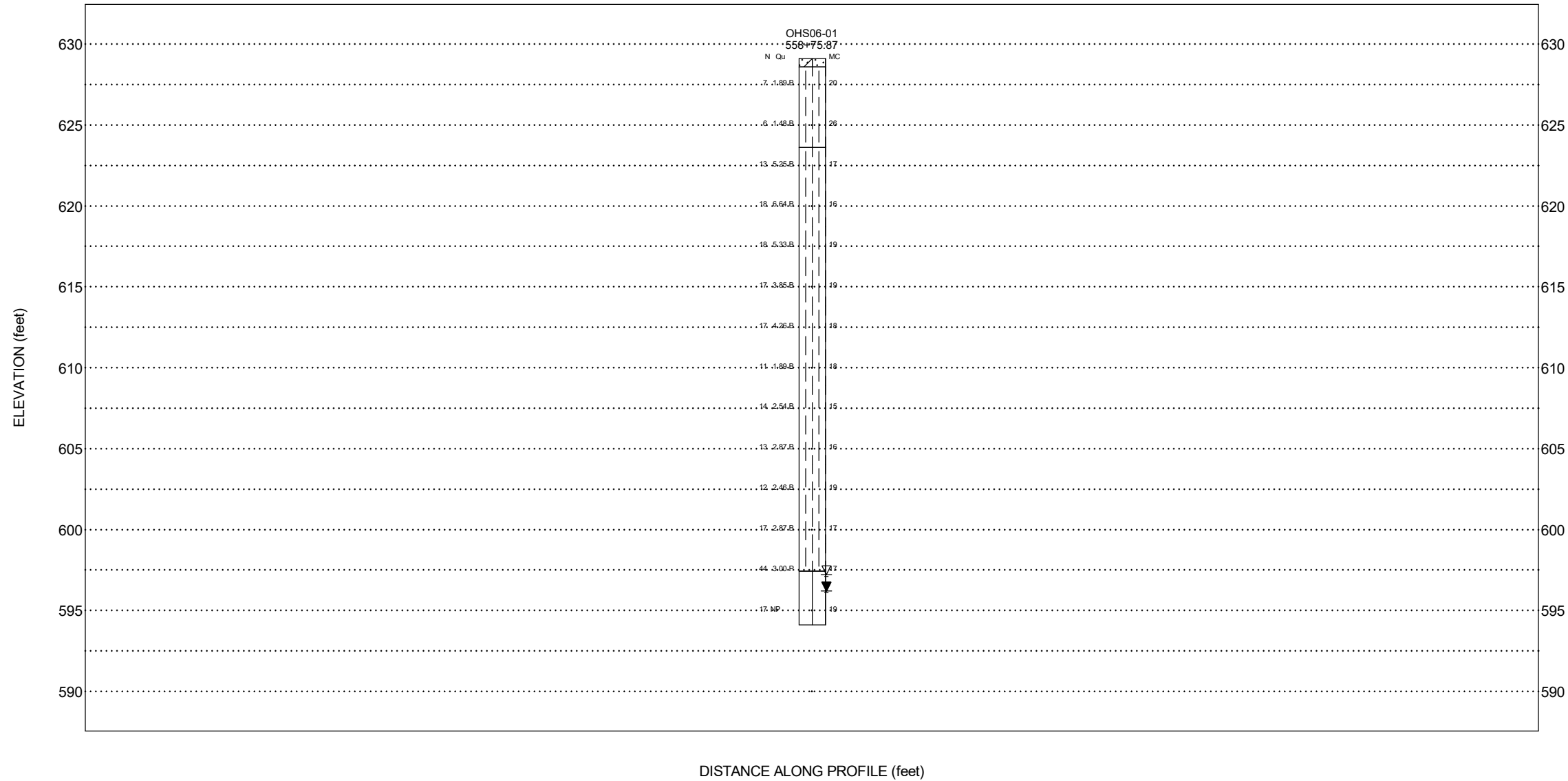
JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-9



N

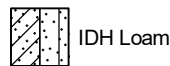


OHS06-01



DISTANCE ALONG PROFILE (feet)

Lithology Graphics



IDH Loam



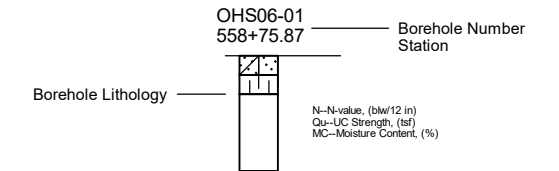
IDH Silty Clay, Silty Clay Loam



IDH Silt, Silty Loam

Site Map Scale 1 inch equals 0 feet

Explanation:



- ▽ Water Level Reading at time of drilling.
- ▼ Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 0x

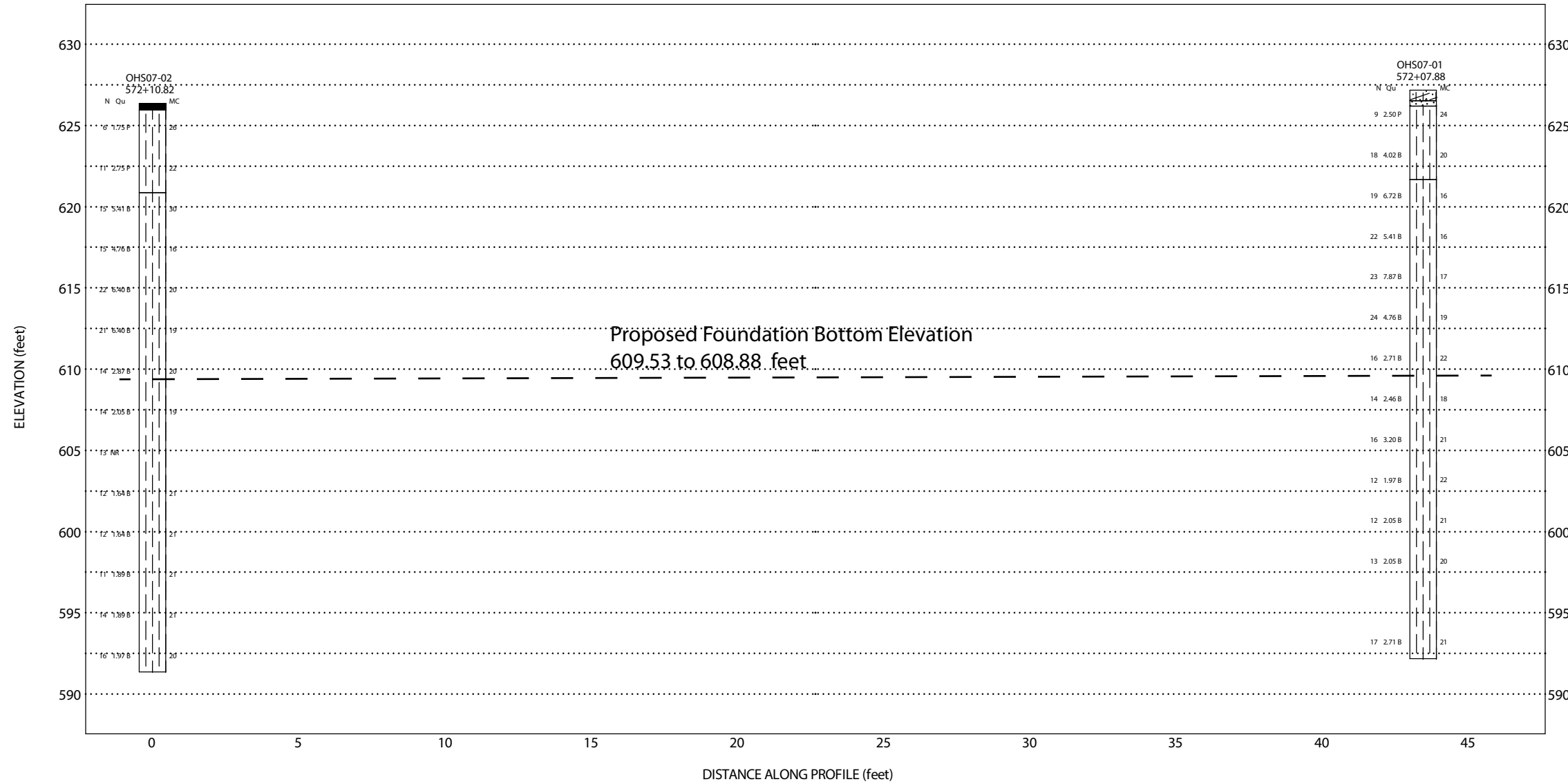
Terracon
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Lombard, IL 60148

Soil Profile OHS 6



I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-10



Proposed Foundation Bottom Elevation
609.53 to 608.88 feet

DISTANCE ALONG PROFILE (feet)

Lithology Graphics



Pavement



IDH Sand, Sandy Loam



IDH Silty Clay, Silty Clay Loam



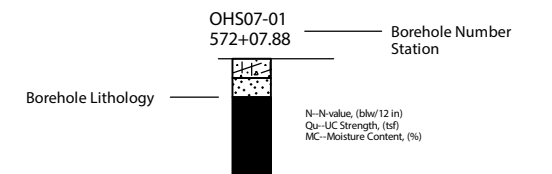
Topsoil

OHS07-01

OHS07-02

Site Map Scale 1 inch equals 15 feet

Explanation:



- ▽ Water Level Reading at time of drilling.
- ▼ Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 0.5x

Terracon
1145 N. Main Street
Lombard, IL 60148

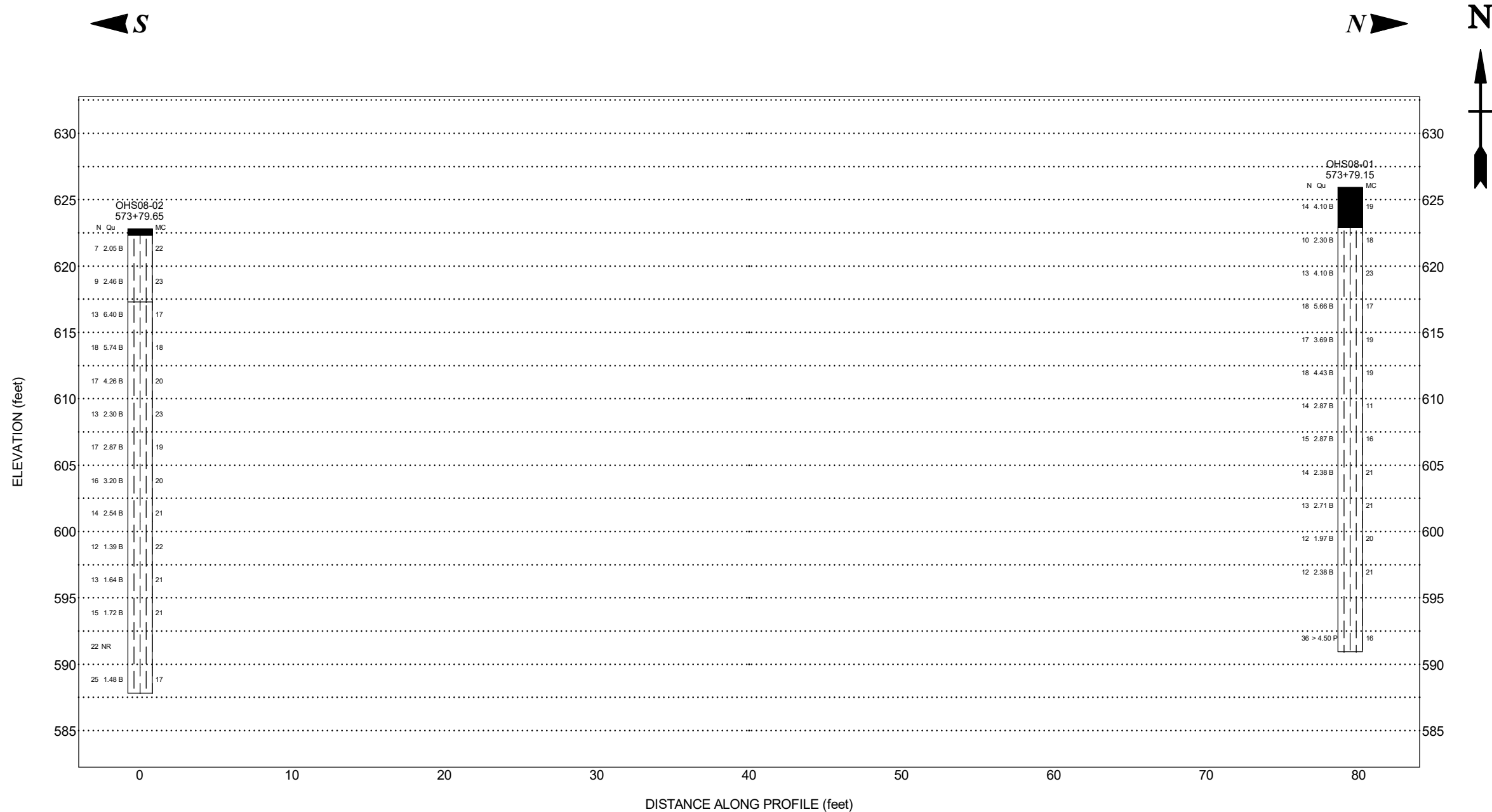
Soil Profile
OHS 7



I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-11

WEI 11X17_79011501.GPJ_WANGENG.GDT_5/19/23

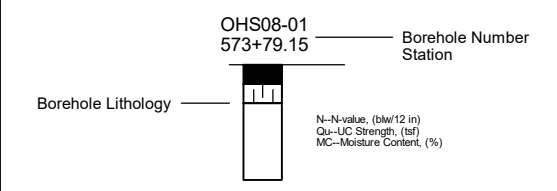


Lithology Graphics

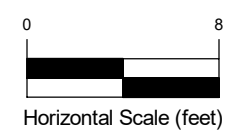


Site Map Scale 1 inch equals 30 feet

Explanation:



- ▽ Water Level Reading at time of drilling.
- ▼ Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 1x

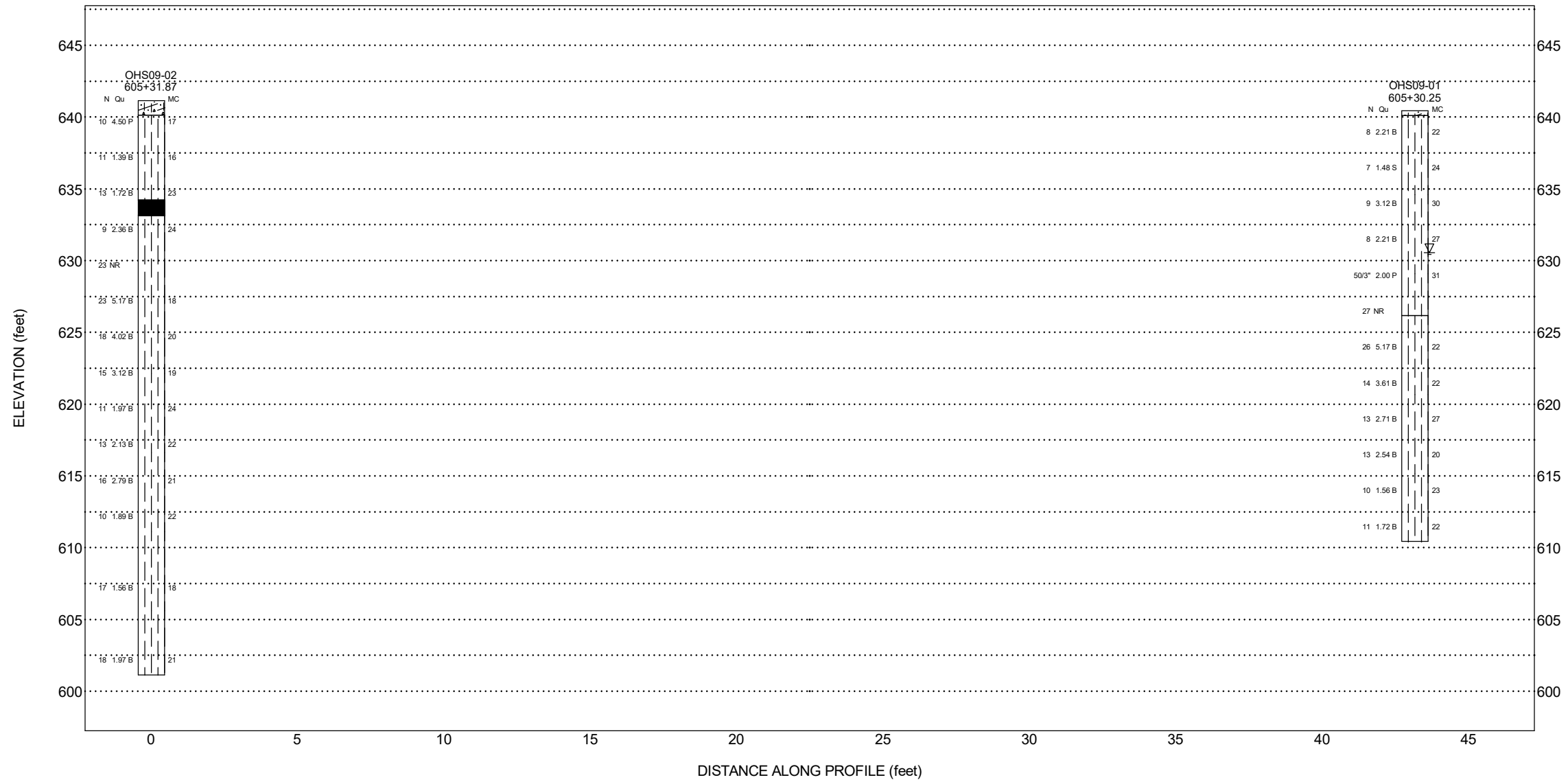
Terracon
1145 N. Main Street
Lombard, IL 60148

Soil Profile OHS 8



I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-12



Lithology Graphics



Pavement



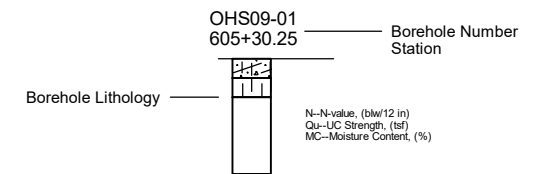
IDH Silty Clay, Silty Clay Loam



Topsoil

Site Map Scale 1 inch equals 15 feet

Explanation:



- ▽ Water Level Reading at time of drilling.
- ▼ Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 0.5x

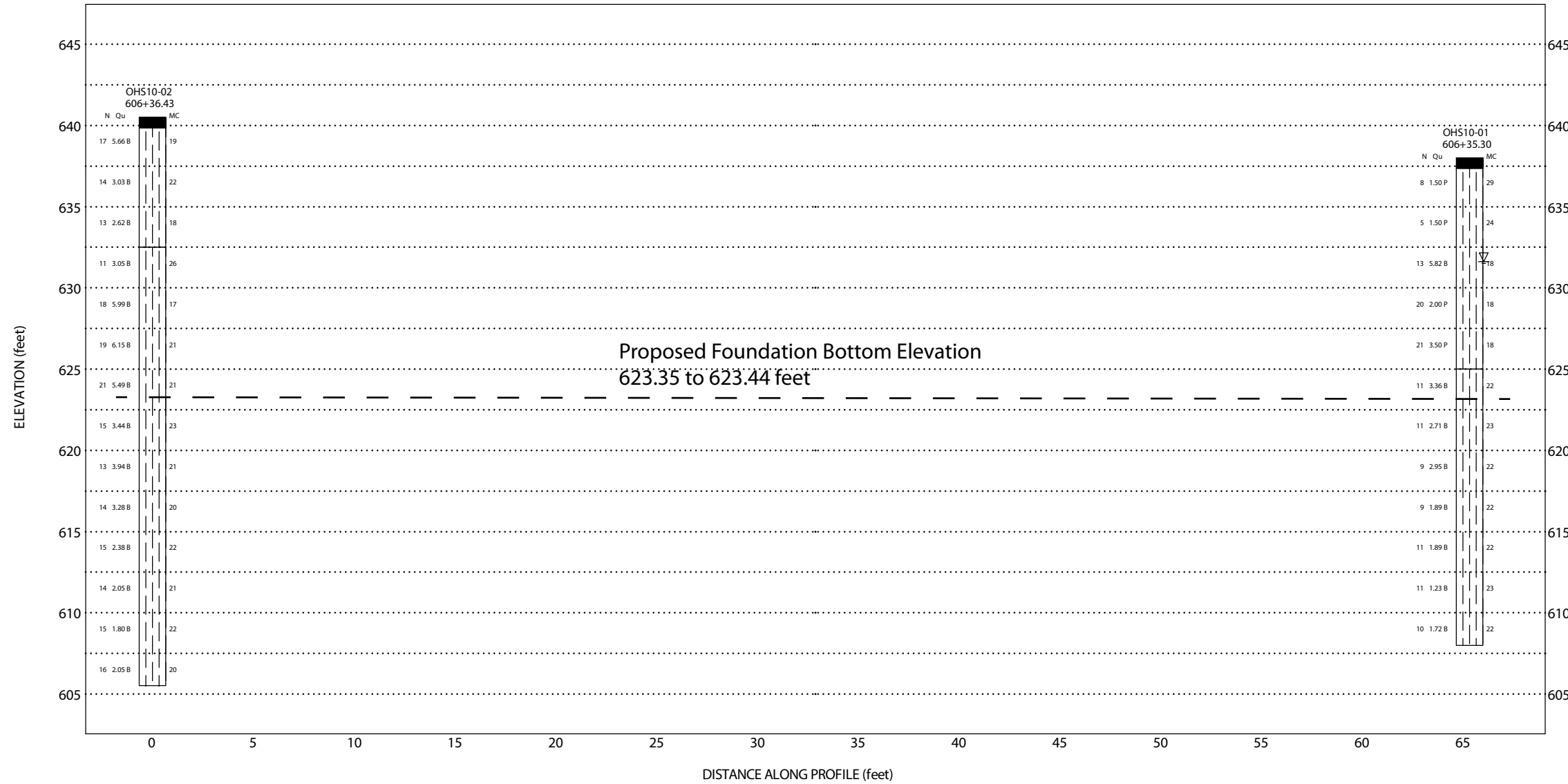
Terracon
1145 N. Main Street
Lombard, IL 60148

**Soil Profile
OHS 9**



I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

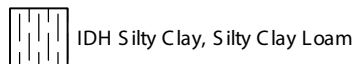
JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-13



Proposed Foundation Bottom Elevation
623.35 to 623.44 feet

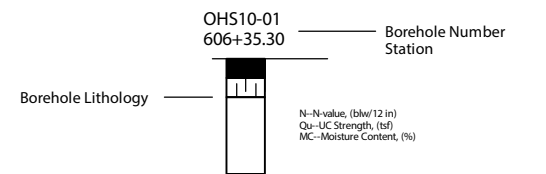
DISTANCE ALONG PROFILE (feet)

Lithology Graphics

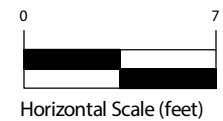


Site Map Scale 1 inch equals 25 feet

Explanation:



- Water Level Reading at time of drilling.
- Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 1x

Terracon
1145 N. Main Street
Lombard, IL 60148

Soil Profile
OHS 10

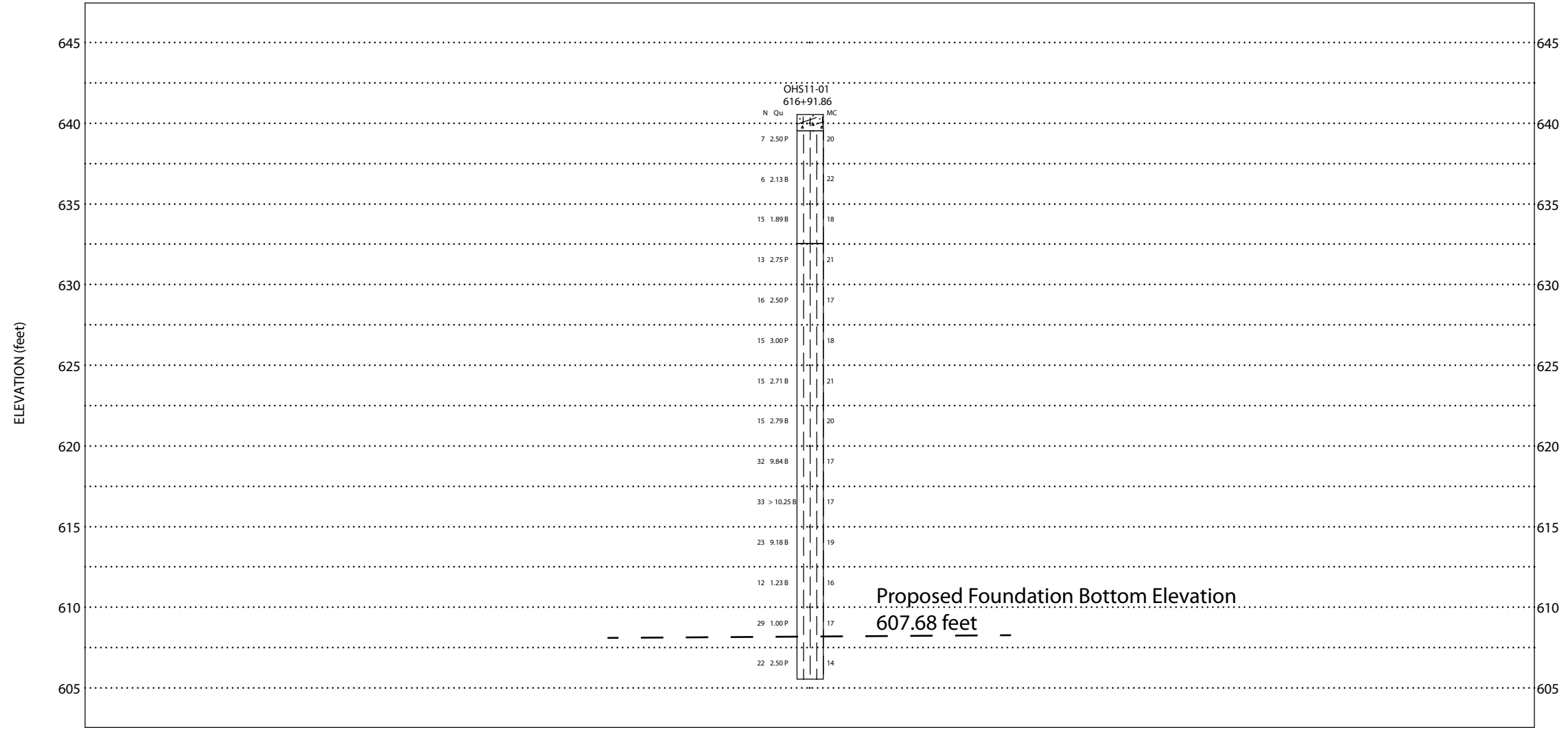


I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-14



N



Proposed Foundation Bottom Elevation
607.68 feet

DISTANCE ALONG PROFILE (feet)

Lithology Graphics



Pavement

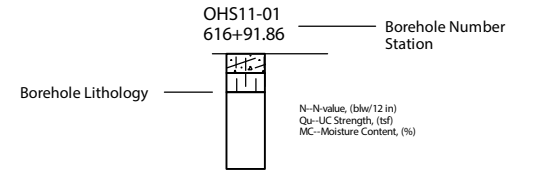


IDH Silty Clay, Silty Clay Loam

OHS11-01

Site Map Scale 1 inch equals 0 feet

Explanation:



- ▽ Water Level Reading at time of drilling.
- ▼ Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 0x

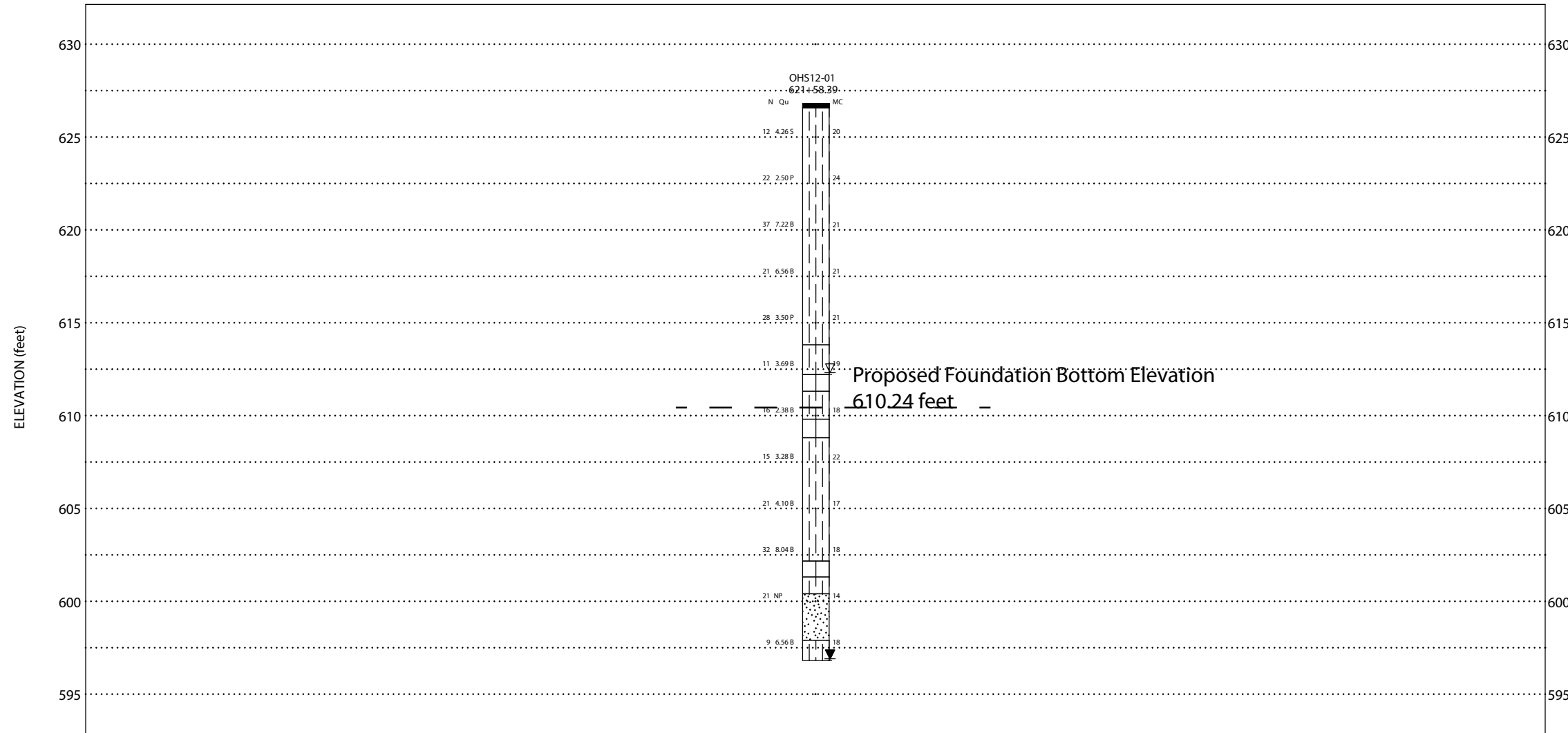
Terracon
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Lombard, IL 60148

Soil Profile
OHS 11



I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-15



Proposed Foundation Bottom Elevation
610.24 feet

DISTANCE ALONG PROFILE (feet)

Lithology Graphics



Topsoil



IDH Silty Clay, Silty Clay Loam



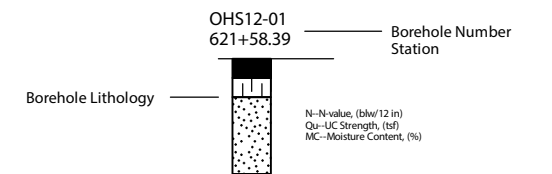
IDH Silt, Silty Loam



IDH Sand, Sandy Loam

Site Map Scale 1 inch equals 0 feet

Explanation:



- ▽ Water Level Reading at time of drilling.
- ▼ Water Level Reading 24-hr after drilling or at end of drilling



Horizontal Scale (feet)

Vertical Exaggeration: 0x

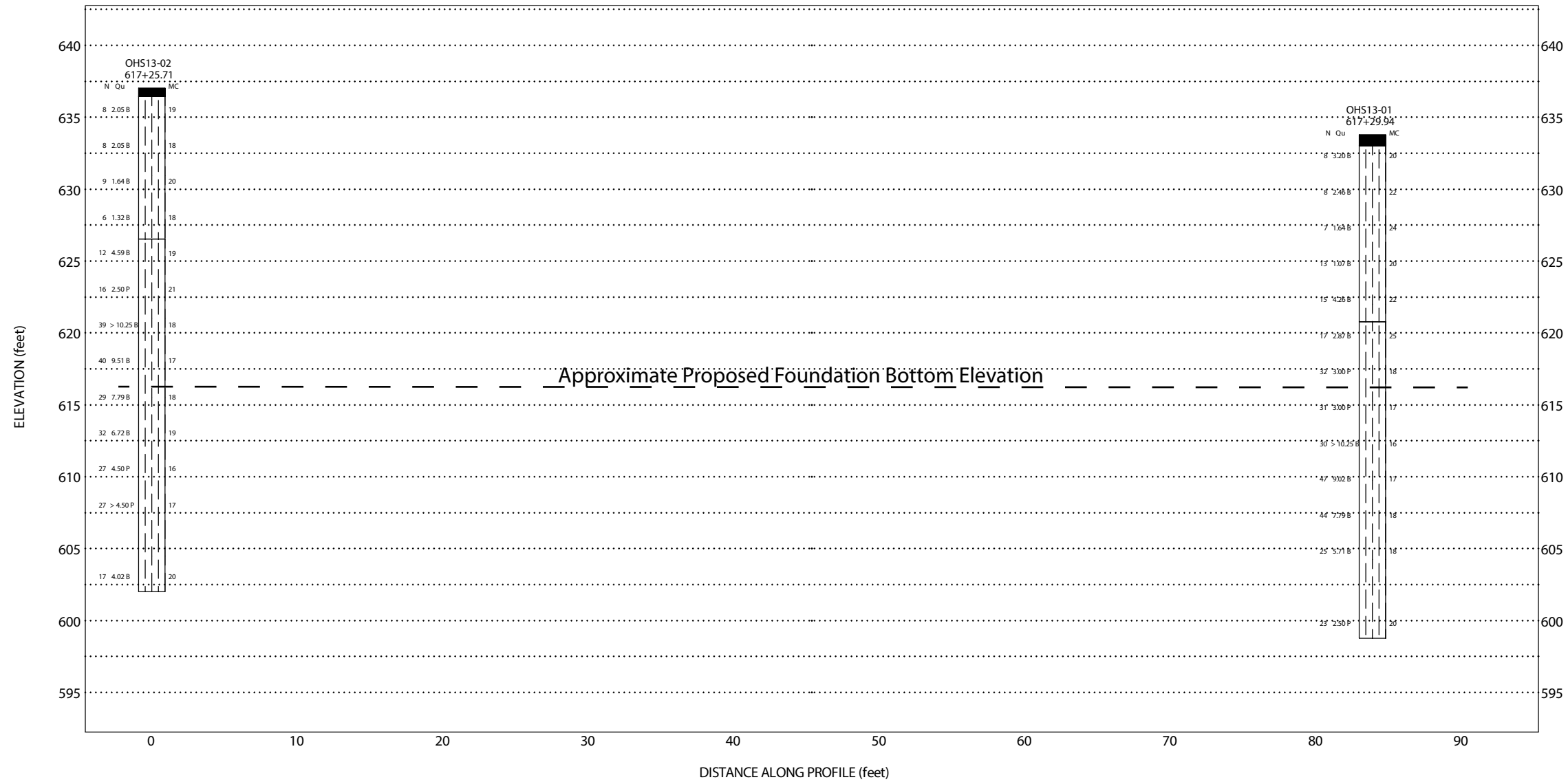
Terracon
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Lombard, IL 60148

Soil Profile
OHS 12



I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-16



Lithology Graphics



Topsoil



IDH Silty Clay, Silty Clay Loam

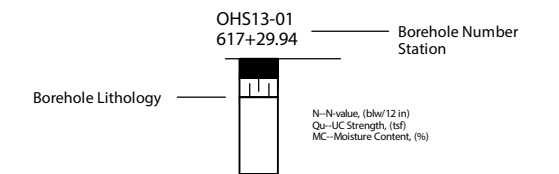


OHS13-01

OHS13-02

Site Map Scale 1 inch equals 35 feet

Explanation:



- ▽ Water Level Reading at time of drilling.
- ▼ Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 1x

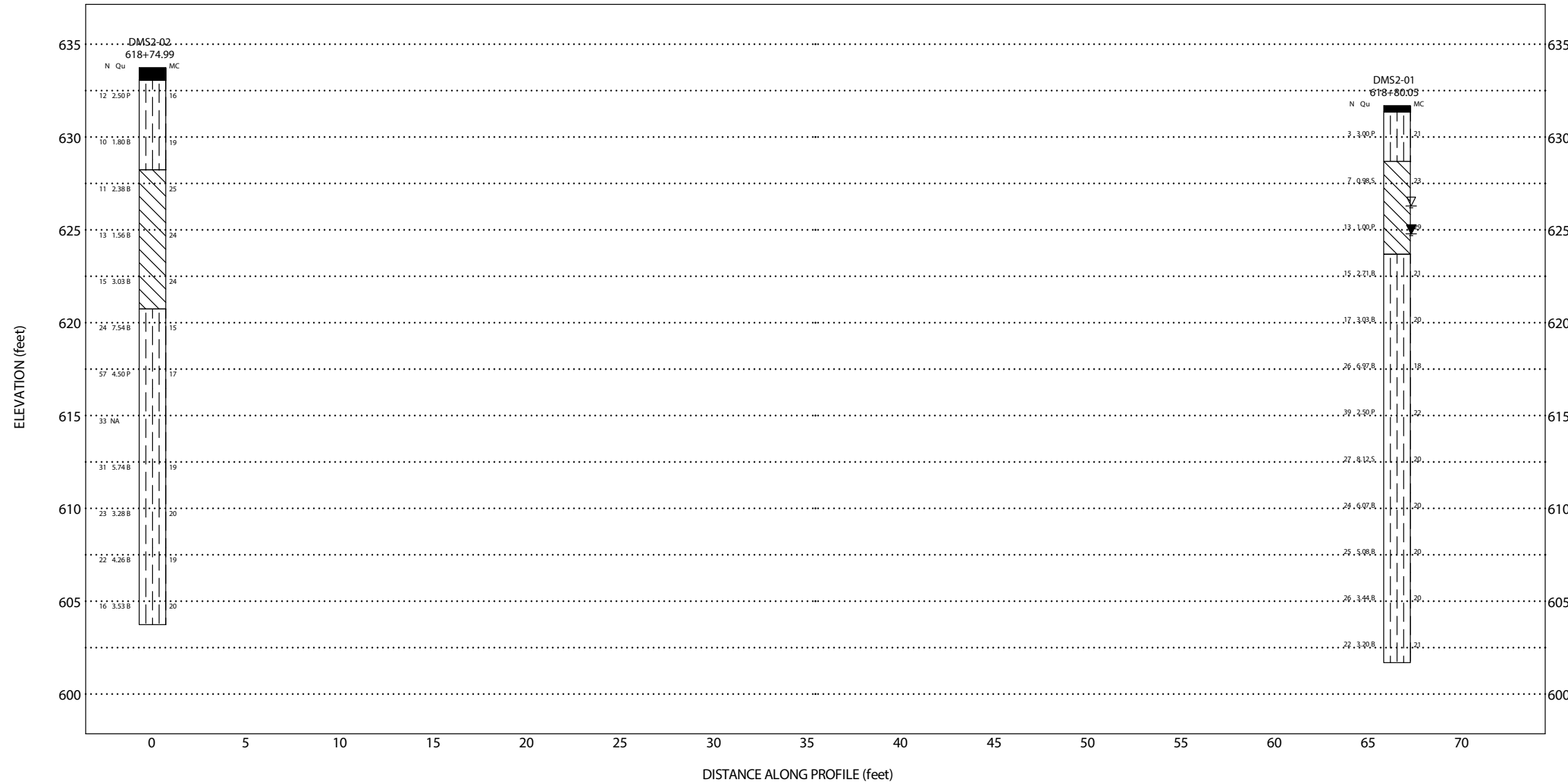
Terracon
1145 N. Main Street
Lombard, IL 60148

Soil Profile
OHS 13 Sta. 617+25

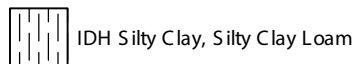


I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-16

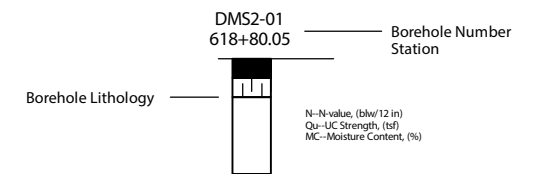


Lithology Graphics

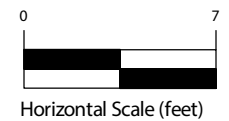


Site Map Scale 1 inch equals 25 feet

Explanation:



- ▽ Water Level Reading at time of drilling.
- ▼ Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 1x

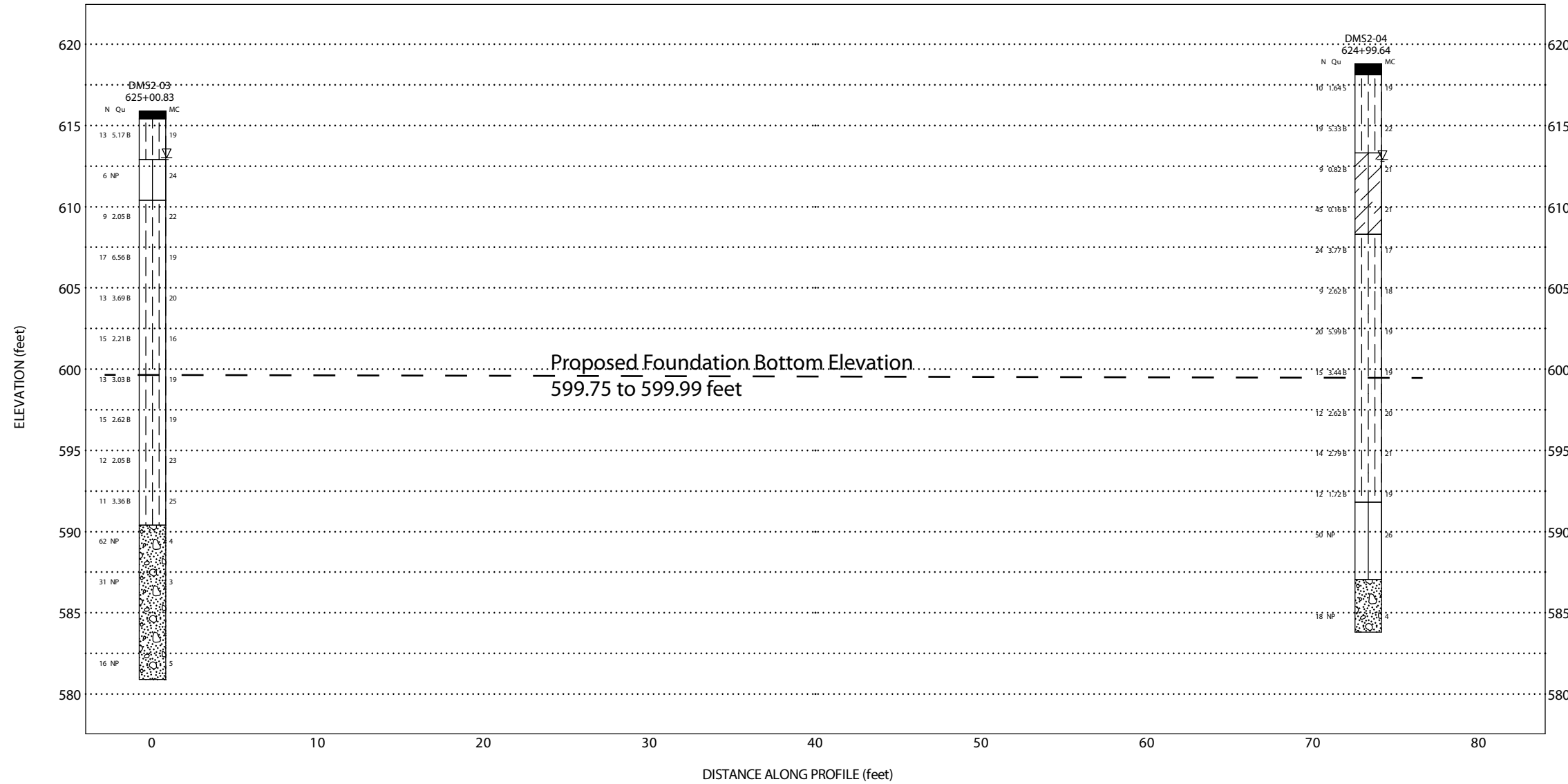
Terracon
1145 N. Main Street
Lombard, IL 60148

Soil Profile
DMS/ ITS



I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-18



Proposed Foundation Bottom Elevation
599.75 to 599.99 feet

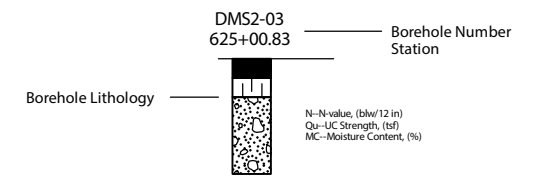
DISTANCE ALONG PROFILE (feet)

Lithology Graphics

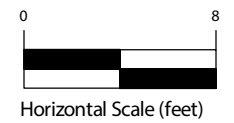
- Topsoil
- IDH Silty Clay, Silty Clay Loam
- IDH Silt, Silty Loam
- Gravelly sand, sandy gravel
- IDH Clay Loam

Site Map Scale 1 inch equals 30 feet

Explanation:



- Water Level Reading at time of drilling.
- Water Level Reading 24-hr after drilling or at end of drilling



Vertical Exaggeration: 1x

Terracon
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Soil Profile
DMS/ITS at Sta. 625+00



I-80 Reconstruction (Houbolt Rd to Center St)
Will County, Illinois

JOB NUMBER	PLATE NUMBER
7901-15-01	EXHIBIT 3-19

APPENDIX A



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

BORING LOG BC2-01

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 625.87 ft
 North: 1764604.87 ft
 East: 1040143.47 ft
 Station: 575+62.56
 Offset: 81.197 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 (%)
	625.2	8-inch thick CONCRETE --PAVEMENT--															
	624.7	6-inch thick SANDY GRAVEL --AGGREGATE BASE--															
		Very stiff to hard, brown and gray SILTY CLAY, trace to little gravel; damp --FILL-- --RDR 2--	1		1	5 4 4	3.50 P	17						9	4 5 7	3.12 B	21
			2		2	5 8 9	6.15 B	18						10	4 6 7	2.13 B	22
			5							600.9		25					
		Boring terminated at 25.00 ft															
	619.2	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--	3		3	11 12 14	7.95 B	18									
		--L _L (%)=44, P _L (%)=18-- --%Gravel=0.2-- --%Sand=1.6-- --%Silt=51.2-- --%Clay=47.0-- --A-7-6 (27)--	4		4	8 9 13	6.97 B	22				30					
			5		5	9 11 14	9.18 B	19									
			6		6	7 9 12	5.08 B	21				35					
			7		7	7 6 9	2.13 B	23									
			8		8	3 4 6	3.77 B	21				40					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-17-2023** Complete Drilling **02-17-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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.



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 Fax: 630-953-9938

BORING LOG BC4-01

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 583.77 ft
 North: 1764597.54 ft
 East: 1045639.56 ft
 Station: 630+53.99
 Offset: 145.156' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	583.62	2-inch thick brown SILTY CLAY; damp --TOPSOIL-- Stiff to hard, brown SILTY CLAY, trace gravel; damp to moist --FILL-- --RDR 2--			1	4 9 6	4.50 P	17						9	12 16 16	8.69 B	14
			5		2	3 1 2	1.25 P	17		560.8	Very dense, light gray SANDY GRAVEL; saturated --RDR 2-- --Weathered BEDROCK--	25		10	7 8 50/3"	NP	11
	578.3	Medium dense, gray SANDY GRAVEL; saturated --RDR 2--			3	8 10 4	NP	7						11	50/4"	NP	7
	575.8	Very stiff to hard, gray SILTY CLAY LOAM to SILTY LOAM, trace to little gravel; damp --RDR 2--	10		4	5 11 12	4.50 P	14		555.8	Strong, light gray, poor quality, DOLOSTONE; closely spaced, moderately weathered, horizontal, vertical and oblique joints, with <0.05 inch opening, slightly rough walls, and <0.2 inch infill. --RUN 1: 28 to 38 feet-- --Recovery: 93%-- --RQD: 45%--	30					
					5	7 24 49	7.71 B	12									
			15		6	25 39 49	3.00 P	9									
					7	9 24 34	4.50 P	10									
					8	29 18 21	9.10 B	13		545.8	Boring terminated at 38.00 ft						

GENERAL NOTES

Begin Drilling **04-13-2023** Complete Drilling **04-13-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&EH** Logger **B. Miller** Checked by **M. Seyhun**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **6.00 ft**
 At Completion of Drilling **12.00 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 79011501.GPJ WANGENG.GDT 6/6/23



BORING LOG DMS2-01

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 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 631.70 ft
 North: 1764776.79 ft
 East: 1044457.54 ft
 Station: 618+80.05
 Offset: 81.053 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 (%)
	631.44	inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Very stiff, brown and gray SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--			1	1 2 1	3.00 P	21						9	6 10 14	6.07 B	20
	628.7	Medium stiff to stiff, brown and gray CLAY to SILTY CLAY, trace gravel; moist --RDR 2-- --wet spoon; possible sand lens--			2	3 3 4	0.98 S	23				25		10	9 11 14	5.08 B	20
					3	6 6 7	1.00 P	29						11	10 12 14	3.44 B	20
	623.7	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			4	5 6 9	2.71 B	21						12	5 9 13	3.20 B	21
					5	5 7 10	3.03 B	20									
					6	5 11 15	6.97 B	18									
					7	5 21 18	2.50 P	22									
					8	5 11 16	8.12 S	20									
										601.7	Boring terminated at 30.00 ft	30					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-01-2023** Complete Drilling **02-01-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D120A[78%]**
 Driller **NC&DZ** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **3.25" IDA HSA; boring backfilled upon completion**

While Drilling ∇ **5.50 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.

WANGENGINC 79011501.GPJ WANGENG.GDT 6/6/23



BORING LOG DMS2-02

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WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 633.74 ft
 North: 1764711.18 ft
 East: 1044455.09 ft
 Station: 618+74.99
 Offset: 15.592 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 (%)
	633.1	8-inch thick, black SILTY CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown and gray SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--	0-5	X	1	6 5 7	2.50 P	16				0-5	X	9	9 15 16	5.74 B	19
			5-10	X	2	5 4 6	1.80 B	19				5-10	X	10	6 9 14	3.28 B	20
	628.2	Stiff to very stiff, brown to gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 2--	10-15	X	3	4 6 5	2.38 B	25				10-15	X	11	6 10 12	4.26 B	19
			15-20	X	4	5 5 8	1.56 B	24				15-20	X	12	6 8 8	3.53 B	20
			20-25	X	5	5 6 9	3.03 B	24		603.7	Boring terminated at 30.00 ft	25-30					
	620.7	Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; moist --RDR 2--	25-30	X	6	6 11 13	7.54 B	15				30-35					
			30-35	X	7	10 39 18	4.50 P	17				35-40					
			35-40		8	8 13 20						40-45					

GENERAL NOTES

Begin Drilling **02-26-2023** Complete Drilling **02-27-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **RH&JD** Logger **A. Scifers** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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.

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BORING LOG DMS2-04

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 618.80 ft
 North: 1764790.90 ft
 East: 1045077.05 ft
 Station: 624+99.64
 Offset: 70.468 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 (%)	
	618.1	8-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Stiff to hard SILTY CLAY, trace gravel; damp to moist --RDR 2--			1	4 5 5	1.64 S	19						9	4 6 6	2.62 B	20	
			5		2	5 11 8	5.33 B	22				25		10	4 6 8	2.79 B	21	
	613.3	--wet sand lenses-- Very soft to medium stiff, brown CLAY LOAM, trace gravel; moist to wet --RDR 2--			3	5 5 4	0.82 B	21		591.8	Very dense, gray SILT, trace gravel; moist --RDR 2--			11	3 5 7	1.72 B	19	
			10		4	11 16 29	0.16 B	21				30		12	40 25 25	NP	26	
	608.3	Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			5	8 11 13	3.77 B	17		587.0	Medium dense, brown GRAVELLY SAND; damp --RDR 2--			13	8 10 8	NP	4	
			15		6	1 3 6	2.62 B	18		583.8	Boring terminated at 35.00 ft							
					7	7 11 9	5.99 B	19										
			20		8	2 7 8	3.44 B	19										

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-01-2023** Complete Drilling **06-01-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&GUS** Logger **M. Rojo** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

While Drilling ∇ **6.00 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.

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BORING LOG MLA-BSB-01

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 640.88 ft
 North: 1764736.17 ft
 East: 1044039.14 ft
 Station: 614+60.37
 Offset: 57.14 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 (%)
		18-inch thick ASPHALT --PAVEMENT--															
	639.4																
	638.9	Brown and gray SANDY GRAVEL; damp --BASE COURSE--			1	5 4 4	3.77 B							9	6 9 13	4.43 B	19
		Very stiff brown, gray and black SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			2	4 5 4	2.30 B	18				25		10	6 10 12	5.00 B	23
					3	11 4 5	2.62 B	20						11	7 10 10	2.95 B	22
					4	13 7 7	3.20 B	24				30		12	7 7 11	3.08 B	21
	630.4	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			5	6 10 16	4.43 B	26									
					6	5 6 8	6.07 B	21				35		13	6 8 10	3.12 B	18
					7	5 8 15	6.31 B	23									
					8	5 11 12	6.23 B	20				40		14	4 5 6	3.53 B	21

GENERAL NOTES

Begin Drilling **03-09-2021** Complete Drilling **03-09-2021**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **NC&EG** Logger **M. Sadowski** Checked by **C. Marin**
 Drilling Method **2.25" IDA HSA to 10 ft; mud rotary thereafter; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **44.50 ft**
 At Completion of Drilling ∇ **mud in borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG MLA-BSB-01

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 640.88 ft
 North: 1764736.17 ft
 East: 1044039.14 ft
 Station: 614+60.37
 Offset: 57.14 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 (%)	
	596.4	Gray SILTY LOAM; wet --RDR 2--	45		15	5 7 12	2.21 B	22			--%Clay=2.2-- --A-1-b (0)--							
	594.1	Dense, brown, medium to coarse SAND; wet to saturated --RDR 2--	50		16	11 15 18	NP	15										
			55		17	15 15 16	NP	11										
	584.1	Dense, brown, gravelly SANDY LOAM; saturated --RDR 2-- --%Gravel=29.6-- --%Sand=55.4-- --%Silt=12.8--	60		18	8 16 27	NP	21			Medium dense, gray SILTY LOAM, trace gravel; wet --RDR 2-3--	70		20	9 9 9	NP	13	
										571.9		75		21	8 9 11	NP	18	
										564.1	Stiff to hard, gray SILTY CLAY LOAM to SILTY LOAM, trace to little gravel; damp to moist --RDR 2-3--	80		22	10 8 8	1.31 B	17	

GENERAL NOTES

Begin Drilling **03-09-2021** Complete Drilling **03-09-2021**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **NC&EG** Logger **M. Sadowski** Checked by **C. Marin**
 Drilling Method **2.25" IDA HSA to 10 ft; mud rotary thereafter; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **44.50 ft**
 At Completion of Drilling ∇ **mud in borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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BORING LOG MLA-BSB-01

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 640.88 ft
 North: 1764736.17 ft
 East: 1044039.14 ft
 Station: 614+60.37
 Offset: 57.14 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 (%)
	550.9		85		23	12 16 19	7.02 B	15									
		--hard drilling from 85 feet-- --possible cobbles--															
			90		24	10 25 40	2.95 B	13									
		Boring terminated at 90.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-09-2021** Complete Drilling **03-09-2021**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **NC&EG** Logger **M. Sadowski** Checked by **C. Marin**
 Drilling Method **2.25" IDA HSA to 10 ft; mud rotary thereafter; boring backfilled upon completion**

While Drilling ∇ **44.50 ft**
 At Completion of Drilling ∇ **mud in borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG MLA-BSB-04

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 638.88 ft
 North: 1764742.68 ft
 East: 1044205.72 ft
 Station: 616+27.08
 Offset: 57.01 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 (%)
	638.1	9-inch thick ASPHALT --PAVEMENT--															
	636.9	Gray and black ASPHALT grinds; reclaimed pavement; damp --FILL--			1	26 14 4	NP	4						9	11 17 25	8.69 B	20
		Medium stiff to very stiff, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace to little gravel; damp --FILL-- --RDR 2--			2	3 4 5	2.00 P	21				25		10	8 16 21	7.87 B	20
					3	4 7 8	1.80 B	16						11	8 16 19	8.20 B	20
					4	3 6 7	0.75 P	21						12	7 10 13	6.56 B	20
					5	3 3 5	2.05 B	28									
		--brown, gray and black--			6	3 4 7	3.28 S	22						13	7 8 10	3.69 B	20
	623.4	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			7	3 4 6	5.58 B	17									
					8	6 11 13	7.05 B	19						14	4 7 9	3.28 B	22

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-08-2021** Complete Drilling **03-09-2021**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **NC&EG** Logger **M. Sadowski** Checked by **C. Marin**
 Drilling Method **2.25" IDA HSA to 10 ft; mud rotary thereafter; boring backfilled upon completion**

While Drilling ∇ **45.00 ft**
 At Completion of Drilling ∇ **mud in borehole**
 Time After Drilling **24 hours**
 Depth to Water ∇ **36.00 ft**

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

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BORING LOG MLA-BSB-04

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 638.88 ft
 North: 1764742.68 ft
 East: 1044205.72 ft
 Station: 616+27.08
 Offset: 57.01 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 (%)
	594.6	Medium dense, gray SILTY LOAM; moist to wet --RDR 2--	45	X	15	5 8 5	NP	23				65	X	19	14 14 11	NP	16
	592.1	Medium dense to dense, brown and gray, fine to medium SAND to SANDY LOAM, trace gravel; wet to saturated --RDR 2--	50	X	16	8 15 18	NP	14				70	X	20	8 9 13	NP	16
		--%Gravel=8.5-- --%Sand=65.7-- --%Silt=23.1-- --%Clay=2.6-- --A-2-4 (0)--	55	X	17	5 9 13	NP	20		567.1	Gray SILTY LOAM; moist to wet --RDR 2-3--		X	21	12 12 13	NP	19
		--next drilling day observed cave-in at 56 feet--								564.6	Medium dense, gray SANDY LOAM; saturated	75	X				
	582.1	Medium dense, brown and gray, medium to coarse SAND, trace gravel; wet to saturated --RDR 2--	60	X	18	11 11 15	NP	13		563.9	Boring terminated at 75.00 ft	80					

GENERAL NOTES

Begin Drilling **03-08-2021** Complete Drilling **03-09-2021**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **NC&EG** Logger **M. Sadowski** Checked by **C. Marin**
 Drilling Method **2.25" IDA HSA to 10 ft; mud rotary thereafter; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **45.00 ft**
 At Completion of Drilling ∇ **mud in borehole**
 Time After Drilling **24 hours**
 Depth to Water ∇ **36.00 ft**

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

WANGENGINC 79011501.GPJ WANGENG.GDT 6/6/23



BORING LOG MLA-BSB-06

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WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 641.38 ft
 North: 1764622.45 ft
 East: 1044220.46 ft
 Station: 616+37.02
 Offset: 63.71 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	639.6	22-inch thick ASPHALT --PAVEMENT--									--trace organic matter--						
		Stiff to hard, brown and gray SILTY CLAY, trace to little gravel; damp --FILL-- --RDR 2--	1	X	1	4 5 8	3.53 B	17				9	X	9	8 18 31	7.71 B	19
			2	X	2	5 5 8	3.03 B	20			--L _L (%)=38, P _L (%)=17-- --%Gravel=0.5-- --%Sand=3.8-- --%Silt=53.2-- --%Clay=42.5-- --A-6 (21)--	25	X	10	10 24 34	6.89 B	18
			3	X	3	6 4 6	1.64 B	21					X	11	6 15 17	5.58 B	20
			4	O	4	4 5 5	NR					30	O	12	8 8 9	NR	
		--brown, gray and black from 11 feet and below--	5	X	5	4 5 5	3.77 B	21									
			6	X	6	4 4 4	4.51 B	26				35	X	13	5 7 10	1.25 P	23
			7	X	7	4 5 13	3.61 B	26									
	623.4	Stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp to moist --RDR 2--	8	X	8	10 15 22	6.56 B	22				40	X	14	4 7 12	2.05 B	14

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-18-2021** Complete Drilling **03-18-2021**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **J&M** Logger **M. Ciapas** Checked by **C. Marin**
 Drilling Method **2.25" IDA HSA to 10 ft; mud rotary thereafter; boring backfilled upon completion**

While Drilling ∇ **49.00 ft**
 At Completion of Drilling ∇ **mud in borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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BORING LOG MLA-BSB-06

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 641.38 ft
 North: 1764622.45 ft
 East: 1044220.46 ft
 Station: 616+37.02
 Offset: 63.71 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	594.6	Brown SILT; moist --RDR 3--	45	X	15	5 6 10	2.38 B	21		579.6	Dense, gray Gravelly SAND; saturated --RDR 2--	65	X	19	12 15 16	NP	17
	592.2	Medium dense to dense, brown SAND; wet to saturated --RDR 2-3--	50	X	16	10 17 29	NP	24		574.6	Medium dense, gray, fine to coarse SAND; saturated --RDR 2--	70	X	20	8 8 11	NP	21
	584.6	Medium dense, gray SILT; moist to wet --RDR 2--	55	X	17	13 15 15	NP	14		75	--%Gravel=1.6-- --%Sand=88.5-- --%Silt=8.6-- --%Clay=1.3-- --A-3 (0)--	75	X	21	8 11 11	NP	24
			60	X	18	7 8 9	NP	22		564.6	Medium dense, gray Gravelly SAND; saturated --RDR 2--	80	X	22	7 14 15	NP	11

GENERAL NOTES

Begin Drilling **03-18-2021** Complete Drilling **03-18-2021**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **J&M** Logger **M. Ciapas** Checked by **C. Marin**
 Drilling Method **2.25" IDA HSA to 10 ft; mud rotary thereafter; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **49.00 ft**
 At Completion of Drilling ∇ **mud in borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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BORING LOG MLA-BSB-06

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 641.38 ft
 North: 1764622.45 ft
 East: 1044220.46 ft
 Station: 616+37.02
 Offset: 63.71 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	559.6	--cave-in while sampling--															
		Dense, gray SILT; wet --RDR 2--			23	18 17 18	NP	18									
	554.6	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp --RDR 2--			24	11 24 49	7.63 S	11									
	551.4	Boring terminated at 90.00 ft	90														
			95														
			100														

GENERAL NOTES

Begin Drilling **03-18-2021** Complete Drilling **03-18-2021**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **J&M** Logger **M. Ciapas** Checked by **C. Marin**
 Drilling Method **2.25" IDA HSA to 10 ft; mud rotary thereafter; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **49.00 ft**
 At Completion of Drilling ∇ **mud in borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW15-01

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 626.62 ft
 North: 1764586.42 ft
 East: 1039803.13 ft
 Station: 824+85.57
 Offset: 14.721 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	625.6	12-inch thick ASPHALT --PAVEMENT--															
	625.1	6-inch thick SANDY GRAVEL --AGGREGATE BASE--															
	623.4	Very stiff, brown and gray SILTY CLAY, trace gravel; damp --FILL--	1		1	6 3 5	3.00 P	24									
		Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--	2		2	3 5 8	4.51 B	17									
			3		3	5 6 9	4.92 B	18									
			4		4	10 12 16	7.22 B	21									
			5		5	7 8 11	7.13 B	21									
			6		6	6 7 10	3.69 B	22									
	611.6	Boring terminated at 15.00 ft	15														

GENERAL NOTES

Begin Drilling **02-17-2023** Complete Drilling **02-17-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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BORING LOG NAW15-03

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 625.20 ft
 North: 1764609.23 ft
 East: 1040208.12 ft
 Station: 820+79.94
 Offset: 13.257 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	624.5	9-inch thick CONCRETE --PAVEMENT--															
	624.0	6-inch thick SANDY GRAVEL --BASE COURSE--															
		--sand and silt seams; wet-- Stiff, brown and gray SILTY CLAY, trace gravel; damp to moist	1		1	13	1.00	22									
		--FILL-- --L _L (%)=36, P _L (%)=17-- --%Gravel=1.8-- --%Sand=9.2-- --%Silt=53.8-- --%Clay=35.2-- --A-6 (16)--	2		2	2	1.39	16									
	619.7	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--	3		3	6	5.00	19									
			4		4	5	6.64	23									
			5		5	7	4.92	20									
			6		6	4	2.79	19									
	610.2	Boring terminated at 15.00 ft	15														

GENERAL NOTES

Begin Drilling **02-17-2023** Complete Drilling **02-17-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **2.50 ft**
 At Completion of Drilling ∇ **10.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW15-05

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 625.37 ft
 North: 1764616.93 ft
 East: 1040278.95 ft
 Station: 820+08.77
 Offset: 16.703 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	625.31	31-inch thick TOPSOIL Very stiff, brown SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			1	3 5 7	3.77 S	15									
	622.4	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			2	5 4 8	3.20 B	17									
					3	6 8 11	6.31 B	18									
					4	6 8 9	6.15 B	18									
					5	6 7 11	6.72 B	18									
					6	5 5 8	2.79 B	21									
	610.4	Boring terminated at 15.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-15-2023** Complete Drilling **02-15-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW15-06

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 625.44 ft
 North: 1764655.85 ft
 East: 1040533.35 ft
 Station: 817+46.90
 Offset: 28.332 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	625.14	14-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Very stiff, gray and brown SILTY CLAY, trace gravel; damp --FILL--			1	5 5 4	2.80 B	20									
	622.4	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			2	5 5 11	6.40 B	18									
					3	8 8 10	4.50 P	17									
					4	8 8 10	4.10 B	22									
					5	8 8 10	2.87 B	19									
					6	5 7 10	2.50 P	21									
	610.4	Boring terminated at 15.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-15-2023** Complete Drilling **02-15-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW15-08

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 631.24 ft
 North: 1764877.11 ft
 East: 1040809.26 ft
 Station: 813+67.87
 Offset: 105.992 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	630.6	8-inch thick, brown SILTY CLAY LOAM, some gravel --TOPSOIL-- Very stiff to hard, brown SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			1	7 4 6	3.28 B	18									
			5		2	7 9 11	4.50 P	17									
	625.7	Hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			3	6 7 12	4.51 S	18									
			10		4	4 6 11	5.25 B	18									
					5	6 9 13	6.15 B	22									
					6	7 8 12	6.31 B	22									
	616.2	Boring terminated at 15.00 ft	15														
			20														

GENERAL NOTES

Begin Drilling **02-15-2023** Complete Drilling **02-15-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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BORING LOG NAW15-09

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 631.51 ft
 North: 1765018.55 ft
 East: 1040878.01 ft
 Station: 812+04.80
 Offset: 159.126 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	631.24	4-inch thick, dark brown SILTY CLAY LOAM															
		--TOPSOIL--															
		Hard, brown to gray SILTY CLAY LOAM to SILTY CLAY, trace gravel; damp															
		--RDR 2--															
			5		2	7 7 10	7.22 B	17									
			5		2	5 9 11	10.09 B	17									
					3	9 10 13	7.54 B	21									
		--L _L (%)=38, P _L (%)=18-- --%Gravel=1.0-- --%Sand=3.0-- --%Silt=56.1-- --%Clay=39.9-- --A-6 (20)--	10		4	7 8 12	4.76 B	20									
					5	4 7 12	5.41 B	21									
					6	4 5 6	8.87 B	23									
	616.5	Boring terminated at 15.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-15-2023** Complete Drilling **02-15-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

While Drilling ∇ **0.00 ft**
 At Completion of Drilling ∇ **12.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW15-10

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 633.42 ft
 North: 1765144.83 ft
 East: 1041027.33 ft
 Station: 810+10.39
 Offset: 137.990 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	633.23	3-inch thick, dark brown SILTY CLAY LOAM															
		--TOPSOIL--															
		Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp															
		--RDR 2--															
			5		1	4 4 6	2.95 B	18									
			5		2	4 6 10	4.76 B	18									
					3	9 9 13	6.07 B	23									
			10		4	5 6 8	3.12 B	20									
					5	4 5 7	1.97 B	19									
			15		6	4 6 7	2.80 B	23									
	618.4	Boring terminated at 15.00 ft															

GENERAL NOTES

Begin Drilling **02-15-2023** Complete Drilling **02-15-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **0.00 ft**
 At Completion of Drilling \blacktriangledown **14.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW15-11

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 637.02 ft
 North: 1765230.18 ft
 East: 1041254.06 ft
 Station: 807+92.27
 Offset: 32.567 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	636.83	3-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Very stiff, brown and black SILTY CLAY, trace gravel; damp --FILL--			1	7 5 7	3.00 P	32									
	634.0	Stiff to very stiff, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp to moist --RDR 2--	5		2	3 4 4	2.21 B	22									
		--wet sand lens--			3	3 4 4	3.00 P	23									
		--L _L (%)=35, P _L (%)=16-- --%Gravel=1.5-- --%Sand=13.3-- --%Silt=56.4-- --%Clay=28.8-- --A-6 (15)--	10		4	3 5 8	2.13 B	20									
					5	11 10 14	3.94 B	21									
					6	8 8 10	1.50 P	21									
	622.0	Boring terminated at 15.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-15-2023** Complete Drilling **02-15-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW16-01

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 630.64 ft
 North: 1763271.72 ft
 East: 1041678.89 ft
 Station: 1102+80.90
 Offset: 118.173 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	630.34	1/2-inch thick, light gray GRAVEL --SHOULDER--															
		Stiff to very stiff, brown CLAY LOAM, trace gravel; damp --RDR 2--	1		1	5 3 3	2.13 B	24						9	6 8 11	4.18 B	21
			2		2	4 4 4	1.31 B	23						10	5 8 10	3.36 B	23
	625.1	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--	3		3	6 7 11	3.20 B	20		605.6							
			4		4	5 9 15	10.25 B	19			Boring terminated at 25.00 ft						
			5		5	8 16 26	10.25 B	17									
			6		6	7 14 22	10.25 B	18									
			7		7	6 9 14	8.77 B	21									
			8		8	8 13 19	8.45 B	20									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-09-2023** Complete Drilling **03-09-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **NC&DZ** Logger **B. Miller** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW16-02

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 627.05 ft
 North: 1763486.26 ft
 East: 1041570.92 ft
 Station: 1104+98.16
 Offset: 15.794 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	626.92	92-inch thick, brown SILTY CLAY LOAM, trace gravel; damp --TOPSOIL-- Very stiff, brown SILTY CLAY, trace gravel; damp --RDR 2-- --wet spoon--			1	3 3 3	2.46 B	24									
	624.1	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			2	6 11 16	2.13 B	19									
					3	6 10 14	> 4.50 P	20									
					4	5 11 15	> 4.50 P	19									
					5	6 8 12	5.90 B	21									
					6	4 7 11	2.95 B	21									
					7	5 6 10	2.13 B	21									
					8	6 7 10	3.28 B	22									
	607.1		20														

Boring terminated at 20.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-09-2023** Complete Drilling **03-09-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **NC&DZ** Logger **B. Miller** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

While Drilling ∇ **3.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW16-03

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 635.42 ft
 North: 1763687.25 ft
 East: 1041589.96 ft
 Station: 1106+98.59
 Offset: 40.028 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	635.23	3-inch thick, brown SILTY CLAY LOAM, trace gravel; damp --TOPSOIL-- Very stiff, brown CLAY, trace gravel; damp --RDR 2--			1	3 7 8	3.85 B	41									
	632.4	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			2	5 7 12	3.44 B	18									
			5		3	7 13 24	9.35 B	17									
					4	6 10 18	9.27 B	20									
			10		5	7 13 23	9.76 B	20									
					6	9 15 22	10.09 B	19									
			15		7	8 12 19	7.79 B	21									
					8	8 10 14	5.74 B	20									
	615.4		20														

Boring terminated at 20.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-09-2023** Complete Drilling **03-09-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **NC&DZ** Logger **B. Miller** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW16-04

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 635.08 ft
 North: 1763819.79 ft
 East: 1041680.95 ft
 Station: 1108+99.73
 Offset: 99.025 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	634.75	5-inch thick ASPHALT --PAVEMENT--															
	634.1	7-inch thick GRAVELLY SAND --BASE COURSE--			1	5 5 4	1.39 B	27						9	4 5 6	2.05 B	22
	632.1	Stiff, gray SILTY CLAY, trace gravel; damp															
	632.1	--RDR 2-- Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp to moist			2	5 7 8	7.38 B	16						10	5 5 6	1.80 B	22
		--RDR 2--	5							610.1		25					
					3	5 7 11	3.03 B	17			Boring terminated at 25.00 ft						
					4	4 12 11	10.25 B	19									
			10														
					5	6 8 7	7.38 B	20									
					6	8 7 7	3.69 B	20									
			15														
					7	5 6 8	1.64 B	22									
					8	5 4 5	2.05 B	22									
			20														

GENERAL NOTES

Begin Drilling **03-06-2023** Complete Drilling **03-06-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20B57T [91%]**
 Driller **KG&TC** Logger **M. Rojo** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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BORING LOG NAW16-05

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 634.65 ft
 North: 1763976.31 ft
 East: 1041779.41 ft
 Station: 1110+92.77
 Offset: 71.072 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	634.61	1-inch thick GRAVEL --SHOULDER--															
		Medium stiff, brown CLAY LOAM, trace gravel; damp --FILL--			1	3 2 3	0.50 P	16									
	631.7	Very stiff, bluish green and gray CLAY, trace gravel; damp --RDR 2--			2	3 3 5	2.05 B	29									
	629.2	Stiff to very stiff, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			3	4 3 5	1.56 B	20									
					4	3 4 6	2.46 B	21									
					5	4 7 12	1.31 B	24									
		--wet spoon--															
					6	6 10 15	3.61 B	24									
					7	5 5 10	2.38 B	25									
					8	5 7 9	2.05 B	27									
	614.7	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-09-2023** Complete Drilling **03-09-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **NC&DZ** Logger **B. Miller** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **11.00 ft**
 At Completion of Drilling ∇ **10.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW16-06

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 634.45 ft
 North: 1764035.89 ft
 East: 1041979.26 ft
 Station: 1112+69.19
 Offset: 182.282 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture 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 to gray SILTY CLAY, trace to little gravel; damp --FILL-- --RDR 2--			1	2 2 2	1.72 B	22									
	630.8	Very stiff, black SILTY CLAY, trace gravel; moist --Buried TOPSOIL--			2	2 4 6	3.03 B	29									
	629.0	Medium stiff to stiff, brown, gray and black SILTY CLAY to CLAY, trace gravel; moist to wet --RDR 2--			3	3 2 3	0.90 B	21									
					4	6 8 13	1.00 P	32									
	624.0	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			5	5 9 12	8.86 B	20									
		--wet silt seam--			6	4 10 12	5.17 B	21									
					7	4 6 10	4.92 B	22									
					8	3 6 6	3.03 B	23									
	614.5	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-16-2023** Complete Drilling **03-16-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&EH** Logger **D. Morken** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

While Drilling ∇ **6.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW16-07

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 644.09 ft
 North: 1764110.17 ft
 East: 1042164.89 ft
 Station: 1114+73.64
 Offset: 270.462 RT

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 (%)
	643.84	1/4-inch thick ASPHALT --PAVEMENT--															
	643.1	8-inch thick GRAVELLY SAND --BASE COURSE--			1	2 4 5	3.50 P	28						9	4 4 6	1.80 B	25
	641.1	Very stiff, dark gray SILTY CLAY, trace gravel; damp --FILL--			2	2 3 3	2.05 B	30						10	5 5 5	2.46 B	25
		Soft to very stiff, brown and gray SILTY CLAY, trace gravel; damp to moist --RDR 2--	5							619.1		25					
		--L _L (%)=50, P _L (%)=18-- --%Gravel=0.1-- --%Sand=10.6-- --%Silt=54.1-- --%Clay=35.1-- --A-7-6 (30)--			3	1 2 1	0.41 B	31									
	636.1	Medium dense, brown Gravelly SILTY LOAM; moist			4	4 3 7	6.07 B	16									
	635.1	Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp to moist --RDR 2--	10		5	7 7 8	5.74 B	18									
					6	5 5 7	5.17 B	21									
			15		7	5 5 7	3.28 B	23									
					8	3 5 6	2.46 B	23									
			20														
										Boring terminated at 25.00 ft							

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GENERAL NOTES

Begin Drilling **03-06-2023** Complete Drilling **03-06-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20B57T [91%]**
 Driller **KG&TC** Logger **M. Rojo** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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BORING LOG NAW16-08

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 633.64 ft
 North: 1764276.76 ft
 East: 1042174.78 ft
 Station: 1116+21.41
 Offset: 145.144 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture 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 and gray SILTY CLAY, trace gravel; damp to moist															
		--FILL-- --RDR 2--			1	1 2 3	2.21 B	25									
	630.6	Stiff (1.00P), greenish gray CLAY to SILTY CLAY, trace organic matter; moist			2	2 5 6	6.72 B	17									
	629.4	Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp to moist			5												
					3	3 5 7	4.10 B	16									
					4	3 4 8	3.61 B	22									
					5	2 4 6	3.28 B	20									
					6	3 5 7	3.44 B	21									
					7	2 3 7	3.69 B	22									
		--moist silt seam--			8	5 5 6	1.56 B	24									
	613.6	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-16-2023** Complete Drilling **03-16-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&EH** Logger **D. Morken** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW16-09

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 636.68 ft
 North: 1764408.04 ft
 East: 1042283.36 ft
 Station: 1118+01.98
 Offset: 76.773 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	636.44	inch thick, black SILTY CLAY LOAM, trace gravel; moist --TOPSOIL-- Medium stiff, brown and gray SILTY CLAY, trace gravel; moist --FILL--			1	1 1 2	0.90 B	31									
	633.7	Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--	5		2	2 9 5	4.67 B	17									
					3	9 8 12	7.38 B	19									
					4	3 6 10	7.05 B	18									
					5	4 7 9	4.10 B	20									
					6	3 5 6	2.95 B	22									
					7	3 4 7	3.03 B	21									
					8	7 10 12	1.75 P	22									
	616.7		20														

Boring terminated at 20.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-16-2023** Complete Drilling **03-16-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&EH** Logger **D. Morken** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW16-10

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 639.25 ft
 North: 1764424.56 ft
 East: 1042444.03 ft
 Station: 1119+81.12
 Offset: 101.212 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	638.94	1/4" thick ASPHALT --PAVEMENT--															
	638.3	8-inch thick, brown, fine SAND --BASE COURSE--			1	3 3 4	1.80 B	30									
	636.3	Stiff, gray SILTY CLAY, trace gravel; damp --FILL--			2	2 3 2	1.00 P	22									
		Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp to moist --RDR 2--	5		3	3 3 6	3.28 B	19									
					4	4 6 7	5.90 B	17									
					5	4 6 7	4.35 B	20									
					6	4 5 5	2.54 B	21									
					7	3 5 5	2.21 B	21									
					8	2 4 5	1.23 B	24									
	619.3		20														

Boring terminated at 20.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-02-2023** Complete Drilling **03-02-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20B57T [91%]**
 Driller **KG&TC** Logger **M. Rojo** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW16-11

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 638.60 ft
 North: 1764452.03 ft
 East: 1042209.88 ft
 Station: 1117+48.23
 Offset: 7.949 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	638.2	5-inch thick, dark brown SILTY CLAY, trace gravel; moist															
	637.6	--TOPSOIL-- Light brown SILTY CLAY, trace gravel; moist			1	8 7 10	0.98 B	42									
	635.6	--Buried TOPSOIL-- Medium stiff, dark brown SILTY CLAY, trace gravel; moist			2	3 6 7	1.80 B	26									
		Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp to moist	5														
		--RDR 2--			3	5 9 11	NA	18									
					4	4 5 8	3.69 B	17									
			10		5	3 7 12	7.22 B	20									
					6	4 6 9	4.18 B	21									
			15		7	2 3 6	2.46 B	23									
	620.6	Very stiff, gray SILTY CLAY LOAM, trace gravel; damp			8	3 4 6	2.05 B	13									
	618.6	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-17-2023** Complete Drilling **03-17-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&EH** Logger **D. Morken** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW16-12

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 637.74 ft
 North: 1764522.50 ft
 East: 1042380.55 ft
 Station: 1119+32.89
 Offset: 6.326 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 (%)
	636.7	12-inch thick, dark brown SILTY CLAY, trace gravel; moist --TOPSOIL--															
		Very stiff, black, brown and gray SILTY CLAY, trace gravel; moist --FILL--			1	4 7 8	3.03 B	24									
	634.7	Stiff (1.75P) to very stiff, greenish gray to dark brown CLAY to SILTY CLAY, trace gravel; moist			2	4 3 5	2.46 B	27									
	631.2	Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp to moist --RDR 2--			3	3 5 5	2.46 B	19									
					4	1 3 5	4.50 P	26									
					5	7 9 14	6.40 B	20									
					6	3 6 10	6.15 B	23									
					7	3 3 7	3.94 B	27									
	617.7		20		8	3 5 7	1.72 B	24									
Boring terminated at 20.00 ft																	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-17-2023** Complete Drilling **03-17-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&EH** Logger **D. Morken** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW16-13

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 637.70 ft
 North: 1764526.19 ft
 East: 1042567.13 ft
 Station: 1121+18.86
 Offset: 9.841 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	637.43	3-inch thick, dark brown SILTY CLAY --TOPSOIL-- Stiff to very stiff, brown and greenish gray SILTY CLAY, trace to some gravel; damp to moist --FILL-- --RDR 2--			1	2 2 3	2.05 B	23									
			5		2	2 2 3	1.64 B	27									
	632.2	Dense, brown GRAVEL; wet --FILL--			3	37 17 17	NP	4									
	630.2	Medium stiff to hard, brown to gray SILTY CLAY, trace gravel; damp to moist --RDR 2--			4	6 8 12	5.90 B	17									
			10		5	6 10 13	1.75 P	22									
			15		6	4 8 11	0.50 P	20									
					7	5 9 11	4.67 B	23									
					8	3 5 8	3.03 B	25									
	617.7	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-16-2023** Complete Drilling **03-16-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&EH** Logger **D. Morken** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

While Drilling ∇ **6.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW16-14

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 639.32 ft
 North: 1764537.81 ft
 East: 1042753.46 ft
 Station: 1123+05.55
 Offset: 9.388 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	638.8	6-inch thick, brown SILTY CLAY LOAM, trace gravel; moist															
	638.3	--TOPSOIL--															
		Brown SANDY GRAVEL; moist			1	3 3 5	2.46 B	23									
		--FILL--															
		Very stiff, brown and gray SILTY CLAY, trace gravel; damp to moist															
		--FILL--															
		--RDR 2--			2	3 3 7	2.21 B	16									
	633.8	Stiff, greenish gray CLAY to SILTY CLAY, trace gravel; damp			3	4 4 5	1.31 B	29									
		--RDR 2--															
	631.3	Hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp			4	3 5 6	6.40 B	16									
		--RDR 2--															
					5	9 9 12	7.79 B	16									
					6	3 10 12	9.10 B	16									
					7	6 9 12	4.50 P	16									
					8	5 8 11	4.43 B	22									
	619.3	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-17-2023** Complete Drilling **03-17-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&EH** Logger **D. Morken** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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.

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BORING LOG NAW16-15

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 639.79 ft
 North: 1764545.35 ft
 East: 1042932.29 ft
 Station: 1124+84.51
 Offset: 12.557 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	639.3	6-inch thick, brown SILTY CLAY, trace gravel; moist															
	638.8	--TOPSOIL-- Brown SANDY GRAVEL; moist to wet			1	3 3 3	3.00 P	21									
		--FILL-- Stiff to very stiff, black, brown and gray SILTY CLAY, trace gravel; moist			2	2 2 4	2.87 B	27									
		--RDR 2-- --trace metal fragments--	5		3	3 4 6	1.48 B	25									
	631.8	Hard, brown to gray SILTY CLAY, trace gravel; damp			4	4 7 11	5.41 B	17									
		--RDR 2--	10		5	4 7 11	6.15 B	19									
		--saturated sand seam--	15		6	3 7 9	4.92 S	20									
					7	5 7 11	5.58 B	21									
					8	4 8 12	4.92 B	22									
	619.8	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-17-2023** Complete Drilling **03-17-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&EH** Logger **D. Morken** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

While Drilling ∇ **1.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW16-16

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 640.11 ft
 North: 1764552.94 ft
 East: 1043099.85 ft
 Station: 1126+52.22
 Offset: 15.008 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	639.84	1-inch thick, brown SILTY CLAY, trace gravel; moist --TOPSOIL-- Stiff, brown SILTY CLAY, trace gravel; moist --FILL-- --RDR 2--			1	2 2 4	1.89 B	24									
	636.1	Stiff (1.00P) to very stiff, black and brown SILTY CLAY, trace gravel; moist --Buried TOPSOIL--	5		2	3 6 7	2.79 B	23									
	633.4	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			3	3 3 8	2.95 B	19									
			10		4	3 8 11	8.45 B	17									
					5	3 6 11	8.20 B	21									
			15		6	4 8 10	7.79 S	21									
					7	7 12 19	8.20 B	19									
	620.1		20		8	4 6 7	3.28 B	20									
Boring terminated at 20.00 ft																	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-17-2023** Complete Drilling **03-17-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&EH** Logger **D. Morken** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW16-17

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 643.52 ft
 North: 1764574.86 ft
 East: 1043296.63 ft
 Station: 1128+49.96
 Offset: 4.895 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	642.6	11-inch thick ASPHALT --PAVEMENT--															
	641.5	Medium dense, gray GRAVEL; dry --BASE COURSE-- Very stiff, black and brown SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--	5		1	12 7 7	NP	0									
			5		2	5 6 9	2.46 B	21									
	638.0	Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--	10		3	5 10 15	1.48 B	17									
			10		4	8 8 13	4.50 P	17									
			15		5	10 13 17	8.12 B	18									
			15		6	7 12 17	4.59 B	21									
			15		7	7 11 17	5.41 B	20									
			20		8	9 14 19	4.00 P	21									
	623.5	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-30-2023** Complete Drilling **03-30-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **KG&TC** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW16-18

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 644.62 ft
 North: 1764585.02 ft
 East: 1043481.28 ft
 Station: 1130+34.89
 Offset: 5.806 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		14.5-inch thick ASPHALT --PAVEMENT--															
	643.4																
	643.0	CRUSHED STONE --BASE COURSE--															
		Very stiff, black and brown SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--			1	10 5 7	3.20 B	19									
					2	7 6 8	2.46 B	23									
	639.1																
	638.3	Gray SANDY GRAVEL --FILL--															
		Very stiff, black SILTY CLAY, trace gravel; damp --Buried TOPSOIL--			3	16 9 6	3.28 B	29									
	636.6																
		Very stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2--			4	10 6 8	3.50 P	16									
					5	5 6 8	3.53 B	18									
					6	8 9 13	3.53 B	17									
					7	9 12 19	9.43 B	20									
					8	13 18 17	7.63 B	20									
	624.6																
		Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **03-30-2023** Complete Drilling **03-30-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **KG&TC** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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BORING LOG NAW16-19

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 644.57 ft
 North: 1764591.72 ft
 East: 1043667.91 ft
 Station: 610+83.68
 Offset: 72.396 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	644.51	1-inch thick, gray GRAVEL --SHOULDER--															
		Very stiff to hard, brown CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			1	15 6 7	5.49 B	13									
			5		2	6 5 8	2.46 B	23									
					3	6 7 7	2.95 B	20									
	636.6	Hard, dark brown to brown SILTY CLAY, trace gravel; damp --RDR 2--			4	4 5 8	2.46 B	28									
			10		5	9 12 18	7.05 B	16									
					6	8 11 15	7.95 B	18									
			15		7	10 15 21	6.97 B	20									
					8	11 17 22	8.28 B	20									
	624.6		20														

Boring terminated at 20.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-30-2023** Complete Drilling **03-30-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **KG&TC** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW16-20

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 644.50 ft
 North: 1764601.81 ft
 East: 1043865.26 ft
 Station: 612+81.27
 Offset: 70.184 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	644.41	1-inch thick, gray GRAVEL --SHOULDER-- Stiff to very stiff, brown SILTY CLAY, trace gravel; damp			1	6 3 4	1.80 B	26									
		--FILL-- --RDR 2--			2	4 6 7	2.95 B	20									
					3	5 4 7	3.50 P	22									
	637.3	Black SILTY CLAY, trace organic matter; damp			4	4 4 7	2.13 S	21									
	636.5	--Buried TOPSOIL-- Very stiff to hard, brown SILTY CLAY, trace gravel; damp			5	9 19 15	6.23 B	17									
		--RDR 2--			6	8 11 13	5.99 B	18									
					7	9 13 17	5.99 B	18									
					8	12 16 20	3.00 P	19									
	624.5	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-30-2023** Complete Drilling **03-30-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **KG&TC** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW16-21

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 643.53 ft
 North: 1764613.02 ft
 East: 1044039.14 ft
 Station: 614+55.46
 Offset: 65.907 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	642.7	10-inch thick ASPHALT --PAVEMENT--															
		Stiff to hard, brown and gray SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--			1	3 3 4	2.38 B	16									
			5		2	2 3 3	1.80 B	19									
					3	3 3 2	4.50 P	17									
	635.5	Very stiff, brown, green, gray and black SILTY CLAY, trace gravel; damp --RDR 2--	10		4	2 2 4	2.50 P	20									
	633.0	Very stiff to hard, brown SILTY CLAY, trace gravel; damp --RDR 2--			5	2 3 6	2.46 B	26									
			15		6	4 3 4	2.21 B	18									
					7	5 10 13	8.53 B	18									
					8	8 10 13	7.05 B	17									
	623.5	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-12-2023** Complete Drilling **04-12-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&EH** Logger **B. Miller** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW17-02

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 640.67 ft
 North: 1765484.02 ft
 East: 1041594.76 ft
 Station: 716+45.87
 Offset: 313.141 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	640.61	6-inch thick ASPHALT --PAVEMENT-- Very stiff, brown and gray SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--			1	2 4 5	3.28 S	24									
			5		2	5 7 5	2.46 B	20									
					3	7 5 6	2.46 B	22									
			10		4	7 5 8	2.21 B	19									
	630.2	Very stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2--			5	13 5 4	7.38 B	16									
			15		6	6 5 8	3.69 B	14									
					7	6 7 8	4.43 B	17									
	620.7		20		8	4 6 6	3.44 B	16									

Boring terminated at 20.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-02-2023** Complete Drilling **03-02-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20B57T [91%]**
 Driller **KG&TC** Logger **M. Rojo** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW17-04

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WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 638.51 ft
 North: 1765198.78 ft
 East: 1041787.85 ft
 Station: 714+69.68
 Offset: 28.683 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	638.24	4-inch thick, dark brown SILTY CLAY LOAM															
		--TOPSOIL--															
		Very stiff, brown SILTY CLAY, trace gravel; moist			1	5 4 5	2.21 B	19									
		--FILL--															
	635.5	--RDR 2--															
		Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp			2	4 7 10	4.35 B	17									
		--RDR 2--															
			5														
					3	7 8 10	4.10 S	17									
					4	6 7 10	5.08 B	16									
			10														
		--L _L (%)=30, P _L (%)=14--			5	7 7 10	2.87 B	19									
		--%Gravel=4.8--															
		--%Sand=12.3--															
		--%Silt=53.3--															
		--%Clay=29.6--															
		--A-6 (11)--															
					6	7 7 10	3.36 B	17									
			15														
	623.5	Boring terminated at 15.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-14-2023** Complete Drilling **02-14-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

While Drilling ∇ **0.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW17-05

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 638.92 ft
 North: 1765142.53 ft
 East: 1041902.89 ft
 Station: 713+49.03
 Offset: 13.403 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	638.73	3-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			1	4 5 5	3.20 B	18									
			5		2	4 7 9	4.92 S	18									
					3	6 9 17	7.38 B	18									
			10		4	7 10 14	7.13 B	17									
					5	5 8 11	6.31 B	17									
					6	5 7 18	3.94 B	17									
	623.9	Boring terminated at 15.00 ft	15														
			20														

GENERAL NOTES

Begin Drilling **02-13-2023** Complete Drilling **02-13-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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 NAW17-07

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WEI Job No.: 7901-15-01
 Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 638.46 ft
 North: 1765017.65 ft
 East: 1042133.73 ft
 Station: 711+04.57
 Offset: 82.204 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	638.14	14-inch thick ASPHALT --PAVEMENT-- Very stiff, dark brown and gray SILTY CLAY, trace gravel; damp --FILL--			1	4 3 3	2.05 B	31									
	635.5	Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp to moist --RDR 2--	5		2	3 3 3	1.15 B	21									
					3	3 3 4	2.13 B	18									
			10		4	5 4 6	4.67 B	18									
		--sand seams--			5	4 4 5	1.23 B	21									
			15		6	4 5 9	4.00 P	18									
					7	10 12 10	4.00 P	17									
	620.5	Very stiff, gray SILTY CLAY LOAM, some gravel; damp --RDR 2--			8	6 7 8	3.00 P	15									
	618.5	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-02-2023** Complete Drilling **03-02-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20B57T [91%]**
 Driller **KG&TC** Logger **M. Rojo** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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.

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BORING LOG NAW17-08

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 635.48 ft
 North: 1764837.74 ft
 East: 1042196.27 ft
 Station: 709+27.82
 Offset: 0.472 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	635.23	3-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL--															
		Hard, brown and gray SILTY CLAY LOAM, trace gravel; damp --FILL--			1	4 5 6	4.50 P	16									
	632.5	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			2	5 6 9	6.71 B	21									
		--L _L (%)=36, P _L (%)=17-- --%Gravel=3.0-- --%Sand=8.5-- --%Silt=51.9-- --%Clay=36.6-- --A-6 (16)--			3	6 8 13	4.92 B	18									
					4	6 11 13	4.43 B	16									
					5	7 9 11	4.26 B	22									
					6	5 7 18	3.03 B	21									
	620.5	Boring terminated at 15.00 ft	15														

GENERAL NOTES

Begin Drilling **02-13-2023** Complete Drilling **02-13-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **0.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW17-09

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 634.06 ft
 North: 1764755.79 ft
 East: 1042378.04 ft
 Station: 707+26.14
 Offset: 6.904 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	633.83	3-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			1	5 7 7	3.49 B	16									
			5		2	5 5 6	3.36 B	17									
					3	6 9 12	5.90 B	17									
			10		4	5 8 10	6.97 B	20									
					5	6 6 7	3.20 B	21									
	619.7	Medium dense, gray SILT, trace gravel; wet			6	6 6 8	2.00 P	17									
	619.1	Boring terminated at 15.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-13-2023** Complete Drilling **02-13-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

While Drilling ∇ **0.00 ft**
 At Completion of Drilling ∇ **14.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW17-10

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 638.35 ft
 North: 1764722.86 ft
 East: 1042578.99 ft
 Station: 705+20.53
 Offset: 4.234 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	637.7	8-inch thick, brown Gravelly SILTY CLAY LOAM --TOPSOIL--															
		Medium stiff to stiff, brown to dark gray SILTY CLAY to CLAY, trace gravel; damp --RDR 2--	1		1	3 3 5	0.50 P	23									
			5		2	4 6 6	1.48 B	18									
	631.5	Hard, brown to gray SILTY CLAY LOAM to SILTY CLAY, trace gravel; damp --RDR 2--	5		3	5 8 11	7.30 B	15									
			10		4	7 10 14	7.95 B	15									
			15		5	8 12 15	6.81 B	17									
	623.4	Boring terminated at 15.00 ft	15		6	6 8 11	6.40 B	19									
			20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-13-2023** Complete Drilling **02-13-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW17-11

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 640.78 ft
 North: 1764768.58 ft
 East: 1042815.22 ft
 Station: 702+85.78
 Offset: 57.005 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	640.44	4-inch thick ASPHALT --PAVEMENT-- Very stiff to hard, brown and gray SILTY CLAY, trace gravel; damp to moist --FILL-- --RDR 2--			1	3 2 3	2.30 B	18									
			5		2	3 3 4	3.28 B	16									
					3	6 6 8	4.92 B	16									
			10		4	4 7 10	8.28 B	18									
	630.3	Loose, brown SILT, trace gravel; moist to wet --RDR 2--			5	4 3 5	NP	17									
	627.8	Hard, gray SILTY CLAY, trace gravel; damp --RDR 2--			6	4 5 9	6.97 B	23									
			15		7	5 9 9	6.15 B	19									
					8	6 6 6	4.00 P	18									
	620.8	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-02-2023** Complete Drilling **03-02-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20B57T [91%]**
 Driller **KG&TC** Logger **M. Rojo** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

While Drilling ∇ **11.00 ft**
 At Completion of Drilling \blacktriangledown **15.00 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.

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BORING LOG NAW17-12

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WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 639.14 ft
 North: 1764722.99 ft
 East: 1042984.51 ft
 Station: 701+15.20
 Offset: 16.509 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	638.93	3-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Medium stiff to very stiff, gray CLAY to SILTY CLAY, trace gravel; damp --RDR 2--			1	3 4 5	1.50 P	27									
			5		2	3 2 3	0.57 B	33									
					3	2 3 5	2.05 B	31									
	631.1	Very stiff to hard, brown and gray SILTY CLAY, trace gravel; damp --0.5-inch silt seam; wet -- --RDR 2--			4	3 3 5	2.21 B	24									
			10		5	3 5 5	2.30 B	22									
					6	5 8 10	4.92 B	23									
	624.1	Boring terminated at 15.00 ft	15														
			20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-13-2023** Complete Drilling **02-13-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW17-13

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 636.92 ft
 North: 1764732.18 ft
 East: 1042904.37 ft
 Station: 701+95.58
 Offset: 23.288 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	636.82	2-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Very stiff, dark gray CLAY to SILTY CLAY, trace gravel; damp --RDR 2--			1	2 3 4	2.05 B	29									
	633.9	Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--	5		2	2 3 3	1.56 B	25									
					3	4 4 6	2.13 B	22									
			10		4	4 6 9	4.50 P	19									
		--saturated silt seams--			5	5 5 7	3.00 P	18									
					6	6 6 10	4.35 B	16									
	621.9	Boring terminated at 15.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-13-2023** Complete Drilling **02-13-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW17-16

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 642.40 ft
 North: 1764722.34 ft
 East: 1043495.96 ft
 Station: 609+17.07
 Offset: 64.965 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 (%)
	641.9	6-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Very stiff, brown and black SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--			1	4 3 5	3.28 S	23									
			5		2	4 7 7	3.69 B	15									
		--L _L (%)=45, P _L (%)=16-- --%Gravel=0.0-- --%Sand=5.8-- --%Silt=62.4-- --%Clay=31.8-- --A-7-6 (29)--			3	5 5 7	3.53 B	25									
	634.4	Hard, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2--			4	6 8 11	6.72 S	14									
					5	7 8 13	7.79 B	17									
					6	8 10 14	10.00 B	18									
	627.4	Boring terminated at 15.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-06-2023** Complete Drilling **02-06-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW17-17

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 642.51 ft
 North: 1764728.18 ft
 East: 1043656.63 ft
 Station: 610+77.85
 Offset: 64.400 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 (%)
	642.0	6-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Very stiff, brown and gray SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--			1	4 4 4	3.20 B	19									
			5		2	3 5 7	2.62 S	19									
	637.0	Hard, black SILTY CLAY, trace gravel; damp --Buried TOPSOIL--			3	3 6 7	4.00 P	24									
	634.5	Very stiff to hard, brown to gray SILTY CLAY LOAM, trace gravel; damp --RDR 2--	10		4	6 8 13	3.28 S	17									
					5	17 15 14	NR										
			15		6	13 13 15	NR										
					7	14 14 20	> 4.50 P	16									
	625.0	Boring terminated at 17.50 ft	20														

GENERAL NOTES

Begin Drilling **02-06-2023** Complete Drilling **02-06-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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BORING LOG NAW17-18

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 641.95 ft
 North: 1764737.03 ft
 East: 1043848.64 ft
 Station: 612+70.06
 Offset: 65.589 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 (%)
	641.5	5-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Stiff to hard, brown SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--			1	5 5 6	1.00 P	19									
			5		2	4 5 7	2.95 B	23									
					3	6 7 8	4.76 B	18									
	634.0	Very stiff, gray CLAY to SILTY CLAY, trace gravel; damp --RDR 2--			4	5 6 7	2.46 B	27									
	631.5	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			5	9 10 12	6.97 B	16									
			15		6	5 9 12	6.89 B	18									
					7	13 15 18	4.50 P	20									
					8	9 14 19	7.71 B	17									
	622.0	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-06-2023** Complete Drilling **02-06-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW17-19

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 635.39 ft
 North: 1764766.99 ft
 East: 1044046.91 ft
 Station: 614+69.36
 Offset: 87.625 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 (%)
	635.13	13-inch thick TOPSOIL Stiff to very stiff, brown SILTY CLAY, trace gravel; damp			1	PUSH	3.00 P	18									
					2	PUSH	2.00 P	21									
			5		3	PUSH	1.50 P	23									
					4	PUSH	1.50 P	21									
	626.5	GRAVEL; wet			5	PUSH	NP	8									
	625.4	Hard, brown SILTY CLAY, trace gravel; damp	10		6	PUSH	4.00 P	22									
	624.6	GRAVEL; wet			7	PUSH	4.00 P	21									
	623.4	Hard, brown SILTY CLAY, trace gravel; damp															
	621.7																
	621.4	GRAVEL; wet															
		--AUGER REFUSAL-- Boring terminated at 14.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-28-2023** Complete Drilling **02-28-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **GEOPROBE HA**
 Driller **KG&TC** Logger **B. Miller** Checked by **J. Bensen**
 Drilling Method **.1" ID HSA; boring backfilled upon completion**

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

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BORING LOG NAW19-01

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 631.10 ft
 North: 1764519.65 ft
 East: 1044190.66 ft
 Station: 616+03.14
 Offset: 165.244 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	630.5	7-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Very stiff, brown SILTY CLAY, little gravel --FILL-- --RDR 2--			1	3 4 7	2.05 B	27										
			5		2	2 5 7	2.75 P	16										
	624.3	Hard, brown SILTY CLAY, trace gravel --RDR 2--			3	11 14 16	NR											
			10		4	4 10 14	8.12 B	19										
					5	4 10 13	7.30 B	20										
			15		6	4 8 11	6.48 B	21										
					7	6 10 14	5.49 B	20										
	613.1	Stiff, brown SILTY CLAY LOAM, trace gravel			8	3 4 7	1.39 B	14										
	611.1	Boring terminated at 20.00 ft	20															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-02-2023** Complete Drilling **03-02-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&DZ** Logger **F. Bozga** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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 79011501.GPJ WANGENG.GDT 6/6/23



BORING LOG NAW19-02

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WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 631.38 ft
 North: 1764525.55 ft
 East: 1044392.64 ft
 Station: 618+05.19
 Offset: 167.396 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	630.7	8-inch thick, dark brown SILTY CLAY LOAM															
		--TOPSOIL--															
		Stiff to hard, brown SILTY CLAY, trace gravel															
		--RDR 2--															
			1		1	2 2 4	1.15 B	24									
			5		2	4 8 11	8.69 B	17									
					3	4 7 10	6.15 B	20									
			10		4	4 8 11	6.40 B	20									
					5	4 9 12	6.64 B	20									
			15		6	4 8 12	6.97 B	20									
					7	3 6 10	4.18 B	21									
					8	4 6 9	3.44 B	21									
	611.4		20														

Boring terminated at 20.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-02-2023** Complete Drilling **03-02-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&DZ** Logger **F. Bozga** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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.

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BORING LOG NAW19-03

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 633.31 ft
 North: 1764525.84 ft
 East: 1044569.15 ft
 Station: 619+81.58
 Offset: 174.144 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	632.7	7-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Very stiff to hard, brown to gray SILTY CLAY, trace gravel --RDR 2--															
					1	2 3 4	2.05 B	24									
			5		2	2 4 7	2.13 B	19									
					3	3 7 12	5.08 B	17									
			10		4	4 10 15	6.40 B	18									
					5	3 6 10	4.59 B	20									
			15		6	3 8 11	5.82 B	22									
					7	4 9 12	2.75 P	20									
					8	4 6 9	3.69 B	21									
	613.3		20														

Boring terminated at 20.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-02-2023** Complete Drilling **03-02-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&DZ** Logger **F. Bozga** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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 NAW19-04

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WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 632.35 ft
 North: 1764539.30 ft
 East: 1044760.94 ft
 Station: 621+73.75
 Offset: 168.334 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	631.6	9-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Stiff to hard, brown SILTY CLAY, trace gravel --RDR 2--			1	2 3 4	1.56 B	26									
			5		2	4 6 9	5.00 B	15									
					3	3 8 12	7.05 B	17									
	622.9	Brown SILT; wet	10		4	4 10 12	7.46 B	19									
	621.9	Medium stiff, brown CLAY LOAM --RDR 1--			5	3 3 3	0.74 B	19									
	619.4	Very stiff to hard, brown to gray SILTY CLAY, trace gravel --RDR 2--	15		6	3 3 8	3.75 P	20									
					7	3 6 9	5.58 B	19									
	612.4	Boring terminated at 20.00 ft	20		8	4 7 9	5.33 B	16									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-02-2023** Complete Drilling **03-02-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&DZ** Logger **F. Bozga** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

While Drilling ∇ **9.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW19-05

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 632.82 ft
 North: 1764540.51 ft
 East: 1044954.64 ft
 Station: 623+67.34
 Offset: 174.844 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	632.2	8-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Stiff to hard, brown to gray SILTY CLAY, trace gravel --RDR 2--															
					1	2 2 3	2.00 P	26									
			5		2	3 5 8	4.10 B	15									
					3	4 6 10	6.23 B	19									
			10		4	4 7 11	5.82 B	20									
					5	4 7 11	5.66 B	21									
			15		6	4 7 10	3.94 B	19									
					7	3 4 7	2.05 B	20									
			20		8	4 4 6	1.97 B	20									
	612.8	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-02-2023** Complete Drilling **03-02-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&DZ** Logger **F. Bozga** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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.

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BORING LOG NAW19-06

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 621.59 ft
 North: 1764557.07 ft
 East: 1045138.47 ft
 Station: 625+51.69
 Offset: 165.629 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	620.9	8-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY, trace gravel --RDR 2--			1	2 2 4	1.75 P	23									
		--L _L (%)=36, P _L (%)=17-- --%Gravel=1.2-- --%Sand=10.6-- --%Silt=54.9-- --%Clay=33.3-- --A-6 (16)--			2	2 4 7	2.13 B	27									
	614.8	Very stiff to hard, brown and gray SILTY CLAY, trace gravel --RDR 2--			3	4 9 15	NR										
					4	4 9 13	7.30 B	21									
					5	4 7 7	3.36 B	20									
					6	3 6 8	2.46 B	20									
					7	8 9 11	3.75 B	21									
					8	4 8 9	3.53 B	20									
	601.6	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-02-2023** Complete Drilling **03-02-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&DZ** Logger **F. Bozga** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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BORING LOG NAW19-07

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 627.40 ft
 North: 1764569.72 ft
 East: 1045301.88 ft
 Station: 627+15.47
 Offset: 159.500 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	626.6	10-inch thick, dark brown SILTY CLAY LOAM															
		--TOPSOIL--															
		Very stiff to hard, brown SILTY CLAY, trace gravel															
		--RDR 2--															
			5		1	2 4 5	2.05 B	20									
			5		2	3 5 7	2.87 B	25									
					3	6 15 20	7.71 B	17									
			10		4	6 14 17	8.53 B	16									
					5	6 12 15	4.50 P	18									
			15		6	6 10 13	6.48 B	18									
	611.9	Hard, brown SILTY CLAY LOAM, trace gravel															
		--RDR 2--															
	609.4	Hard, brown SILTY CLAY, trace gravel															
	607.4		20		8	5 9 13	4.89 B	18									
		Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-02-2023** Complete Drilling **03-02-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&DZ** Logger **F. Bozga** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW20-01

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 635.45 ft
 North: 1764757.27 ft
 East: 1044200.32 ft
 Station: 616+22.26
 Offset: 71.802 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 (%)
	695.32	32-inch thick, dark brown SILTY CLAY --TOPSOIL-- Medium stiff to very stiff, brown SILTY CLAY, trace gravel; damp to wet			1	PUSH	1.50 P	21									
		--FILL--			2	PUSH	3.50 P	20									
			5		3	PUSH	0.75 P	23									
					4	PUSH	0.75 P	23									
					5	PUSH	1.50 P	27									
			10		6	PUSH	2.00 P	23									
					7	PUSH	1.00 P	27									
	621.7	Very stiff, gray SILTY CLAY, trace gravel; damp			8	PUSH	3.00 P	27									
	619.5	Boring terminated at 16.00 ft															
			20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-28-2023** Complete Drilling **02-28-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **GEOPROBE HA**
 Driller **KG&TC** Logger **B. Miller** Checked by **J. Bensen**
 Drilling Method **.1" ID HSA; boring backfilled upon completion**

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

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BORING LOG NAW20-02

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 633.56 ft
 North: 1764769.17 ft
 East: 1044387.61 ft
 Station: 618+09.87
 Offset: 76.224 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 (%)
	633.1	6-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Stiff to hard, brown and black SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--			1	2 3 4	2.50 P	25									
			5		2	2 2 3	2.00 P	22									
		--L _L (%)=37, P _L (%)=17-- --%Gravel=2.6-- --%Sand=8.4-- --%Silt=58.3-- --%Clay=30.7-- --A-6 (17)--			3	3 4 5	1.00 P	24									
			10		4	5 6 8	3.61 B	22									
					5	8 9 11	4.54 S	24									
	620.6	Very stiff, brown and black SILTY CLAY, trace gravel; damp --Buried TOPSOIL--			6	9 11 10	2.13 B	30									
	618.6	Boring terminated at 15.00 ft	15														
			20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-01-2023** Complete Drilling **02-01-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D120A[78%]**
 Driller **NC&DZ** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **3.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW20-03

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 630.93 ft
 North: 1764778.17 ft
 East: 1044564.37 ft
 Station: 619+86.85
 Offset: 78.179 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 (%)
	630.64	64-inch thick, dark brown SILTY CLAY LOAM															
		--TOPSOIL--															
		Very stiff to hard, brown SILTY CLAY, trace gravel; damp			1	4 4 6	3.00 P	26									
		--FILL--															
		--RDR 2--															
					2	3 6 10	4.26 S	18									
	625.4																
	624.6	Brown SILTY LOAM, trace gravel; wet															
		Hard, brown SILTY CLAY, trace gravel; damp			3	8 11 17	5.66 S	19									
		--RDR 2--															
					4	5 9 14	7.30 B	21									
					5	5 9 13	7.46 B	15									
					6	6 10 14	6.48 B	21									
	615.9	Boring terminated at 15.00 ft	15														

GENERAL NOTES

Begin Drilling **02-01-2023** Complete Drilling **02-01-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D120A[78%]**
 Driller **NC&DZ** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **3.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **5.50 ft**
 At Completion of Drilling \blacktriangledown **6.00 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 NAW20-04

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WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 625.53 ft
 North: 1764788.53 ft
 East: 1044752.61 ft
 Station: 621+75.36
 Offset: 81.023 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 (%)
	625.0	7-inch thick, dark brown SILTY CLAY LOAM															
		--TOPSOIL--															
		Very stiff to hard, brown SILTY CLAY, trace gravel; damp															
		--RDR 2--															
			5		1	3 4 4	2.50 P	28									
			5		2	3 8 11	4.50 P	19									
					3	6 11 15	6.31 S	20									
			10		4	6 12 20	5.33 S	21									
					5	11 17 19	3.69 B	19									
			15		6	7 10 10	3.28 B	17									
	610.5	Boring terminated at 15.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-01-2023** Complete Drilling **02-01-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D120A[78%]**
 Driller **NC&DZ** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **3.25" IDA HSA; boring backfilled upon completion**

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.



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BORING LOG NAW20-05

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 623.34 ft
 North: 1764794.19 ft
 East: 1044931.01 ft
 Station: 623+53.84
 Offset: 79.569 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 (%)
	622.6	9-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Hard, brown SILTY CLAY, trace gravel; damp to moist --RDR 2--	0		1	4 8 15	4.50 P	22									
		--sand seam; wet--	5		2	8 15 22	4.50 P	18									
	617.8	Brown SANDY LOAM; wet															
	617.1	Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp to moist --RDR 2--			3	6 13 21	9.35 S	17									
			10		4	6 12 21	7.38 S	20									
					5	6 6 8	1.31 B	22									
					6	6 7 11	3.85 B	20									
	608.3	Boring terminated at 15.00 ft	15														

GENERAL NOTES

Begin Drilling **02-01-2023** Complete Drilling **02-01-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D120A[78%]**
 Driller **NC&DZ** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **3.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **4.00 ft**
 At Completion of Drilling ∇ **6.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW20-06

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 617.86 ft
 North: 1764794.02 ft
 East: 1045114.22 ft
 Station: 625+36.90
 Offset: 72.101 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 (%)
	617.54	6-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Very stiff to hard, brown SILTY CLAY, trace gravel; damp --RDR 2--			1	3 5 10	2.50 P	21									
					2	6 10 15	6.15 S	19									
					3	9 8 9	4.02 B	21									
	609.9	Brown SANDY LOAM; wet															
	609.1	Stiff to hard, brown SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp to moist --RDR 2--			4	4 6 8	1.97 B	19									
					5	7 8 13	7.95 B	17									
					6	7 9 14	5.82 B	16									
	602.9	Boring terminated at 15.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-01-2023** Complete Drilling **02-01-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D120A[78%]**
 Driller **NC&DZ** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **3.25" IDA HSA; boring backfilled upon completion**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling ∇ **9.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW20-07

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 611.23 ft
 North: 1764807.24 ft
 East: 1045302.33 ft
 Station: 627+25.39
 Offset: 77.816 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 (%)
	610.94	1/2-inch thick, dark brown SILTY CLAY LOAM															
		--TOPSOIL--															
		Very stiff, brown SILTY CLAY, trace gravel; damp			1	7 4 5	2.50 P	26									
		--FILL--															
		--RDR 2--															
			5		2	5 5 5	2.71 S	26									
	605.7	Hard, brown SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp															
		--RDR 2--															
			10		3	10 12 16	4.67 B	14									
			10		4	5 8 15	5.33 S	19									
			15		5	13 14 22	10.25 B	20									
			15		6	5 8 11	7.13 B	25									
	596.2	Boring terminated at 15.00 ft															
			20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-01-2023** Complete Drilling **02-01-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D120A[78%]**
 Driller **NC&DZ** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **3.25" IDA HSA; boring backfilled upon completion**

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.



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BORING LOG NAW20-08

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 609.27 ft
 North: 1764794.32 ft
 East: 1045478.39 ft
 Station: 629+00.80
 Offset: 57.889 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 (%)
		18-inch thick ASPHALT --PAVEMENT--															
	607.8	Stiff to hard, brown and gray SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--			1	4 4 7	> 4.50 P	16									
			5		2	4 10 10	3.00 P	12									
					3	9 9 8	> 4.50 P	19									
			10		4	9 9 8	4.00 P	16									
		--sand seam--			5	3 5 6	1.07 S	17									
					6	5 9 12	5.33 B	17									
	594.3	Boring terminated at 15.00 ft	15														
			20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-02-2023** Complete Drilling **02-02-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **NC&DZ** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **3.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW20-08A

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 609.38 ft
 North: 1764791.68 ft
 East: 1045476.03 ft
 Station: 628+98.33
 Offset: 55.349 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 (%)
		--Drilled without sampling to 16 feet--															
			5											9	11 9 9	2.79 B	14
			25											10	9 13 9	2.71 B	17
										582.6	Stiff, black and gray SILTY CLAY, trace gravel; moist --Buried TOPSOIL-- --RDR 2--			11	8 4 6	NR	
			10							579.4				12	4 4 6	1.23 B	26
											Boring terminated at 30.00 ft						
			15														
	593.4	Very stiff to hard, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			7	8 8 10	7.54 B	16									
			20		8	7 7 8	6.72 B	19									

GENERAL NOTES

Begin Drilling **06-01-2023** Complete Drilling **06-01-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **RH&AP** Logger **A. Scifers** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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BORING LOG NAW20-09

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 607.14 ft
 North: 1764803.18 ft
 East: 1045680.70 ft
 Station: 631+03.30
 Offset: 58.679 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 (%)
	605.8	16-inch thick ASPHALT --PAVEMENT--															
		Hard, brown and gray SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--			1	7 7 7	> 4.50 P	15									
			5		2	5 4 5	> 4.50 P	19									
					3	8 4 4	10.09 B	19									
			10		4	9 9 13	3.58 B	17									
		--L _L (%)=37, P _L (%)=17-- --%Gravel=1.9-- --%Sand=8.3-- --%Silt=56.1-- --%Clay=33.8-- --A-6 (18)--			5	6 9 5	4.00 P	19									
			15		6	5 11 19	6.56 B	16									
	592.1	Boring terminated at 15.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-02-2023** Complete Drilling **02-02-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **NC&DZ** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **3.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG NAW20-10

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 607.08 ft
 North: 1764809.38 ft
 East: 1045847.02 ft
 Station: 632+69.73
 Offset: 58246 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 (%)
		18-inch thick ASPHALT --PAVEMENT--															
	605.6	Brown SILTY CLAY LOAM															
	605.1	--FILL--															
	604.1	Medium stiff, black SILTY CLAY, trace gravel; moist --Buried TOPSOIL--			1	4 5 4	0.50 P	27									
		Very stiff to hard, brown and gray SILTY CLAY, trace gravel; damp --RDR 2--			2	3 4 8	3.50 P	21									
					3	5 10 14	7.13 S	21									
	598.1	Medium dense, brown SILT, trace gravel; saturated --RDR 2--			4	4 8 9	NP	23									
	595.8	Dense to very dense, brown SANDY GRAVEL; damp --RDR 2--			5	3 15 21	NP	4									
					6	10 27 32	NP	4									
	592.1	Boring terminated at 15.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-02-2023** Complete Drilling **02-02-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **NC&DZ** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **3.25" IDA HSA; boring backfilled upon completion**

While Drilling ∇ **9.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW20-10A

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 607.11 ft
 North: 1764809.00 ft
 East: 1045850.56 ft
 Station: 632+73.25
 Offset: 57.727 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 (%)
		--Drilled without sampling to 16 feet--															
			5											9	7 9 9	NP	5
			25											10	8 5 5	NP	8
	580.9	Medium dense, gray SILTY LOAM, trace gravel; moist to wet												11	5 5 5	NP	10
	579.9	Hard, gray SILTY CLAY LOAM, trace gravel; damp												12	13 31 41	6.23 B	15
	577.1	Boring terminated at 30.00 ft	30														
	591.1	Medium dense to dense, brown, medium SAND, trace gravel; damp to moist												7	19 15 15	NP	4
			20											8	8 8 7	NP	5

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-01-2023** Complete Drilling **06-01-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **RH&AP** Logger **A. Scifers** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

While Drilling ∇ **27.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG NAW20-11

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 607.34 ft
 North: 1764833.91 ft
 East: 1046040.55 ft
 Station: 634+64.09
 Offset: 75.045 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 (%)
	606.8	7-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Very stiff to hard, brown SILTY CLAY, trace gravel; damp --RDR 2-- --wet spoon--			1	5 8 11	6.64 B	22									
			5		2	3 5 7	3.85 B	24									
	600.6	Medium dense, brown and gray SILT; saturated --RDR 2--			3	7 8 10	NP	30									
			10		4	4 6 7	NP	27									
	596.8	Dense to very dense, brown SANDY GRAVEL; damp --RDR 2--			5	24 35 29	NP	3									
					6	12 17 19	NP	5									
	592.3	Boring terminated at 15.00 ft	15														

GENERAL NOTES

Begin Drilling **02-02-2023** Complete Drilling **02-02-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **NC&DZ** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **3.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **3.25 ft**
 At Completion of Drilling \blacktriangledown **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG OHS05-01

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WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 627.18 ft
 North: 1764289.22 ft
 East: 1038306.90 ft
 Station: 557+00.18
 Offset: 70.734 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	626.7	6-inch thick, Gravelly LOAM; wet --SHOULDER--															
		Hard, brown and gray SILTY CLAY LOAM, trace gravel --FILL-- --RDR 2--			1	3 7 8	5.25 B	16						9	2 4 7	2.05 B	23
					2	3 5 7	4.92 B	15				25		10	2 4 7	1.89 B	22
	621.7	Stiff to hard, brown to gray SILTY CLAY, trace gravel --RDR 2--			3	4 8 11	5.99 B	17						11	3 5 7	1.72 B	23
					4	3 8 10	6.48 B	18				30		12	3 5 9	1.48 B	18
					5	6 11 12	NR							13	14 22 15	NP	17
					6	6 8 10	1.50 P	23		596.7	Medium dense to dense, gray SILT to SILTY LOAM; wet to saturated --RDR 2--			14	3 4 7	NP	22
					7	2 4 7	1.89 B	23									
					8	3 3 6	1.97 B	23		592.2	Boring terminated at 35.00 ft						

GENERAL NOTES

Begin Drilling **02-27-2023** Complete Drilling **02-27-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&EH** Logger **F. Bozga** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **30.50 ft**
 At Completion of Drilling ∇ **33.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 629.10 ft
 North: 1764321.15 ft
 East: 1038478.21 ft
 Station: 558+75.87
 Offset: 69.165 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	628.6	6-inch thick, Gravelly LOAM; wet --SHOULDER--															
		Stiff, black, brown and gray SILTY CLAY, trace gravel --FILL-- --RDR 2--		X	1	2 3 4	1.89 B	20					X	9	3 5 9	2.54 B	15
				X	2	1 2 4	1.48 B	26				25	X	10	2 5 8	2.87 B	16
	623.6	Stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel --RDR 2--		X	3	3 5 8	5.25 B	17					X	11	3 5 7	2.46 B	19
				X	4	4 7 11	6.64 B	16				30	X	12	5 7 10	2.87 B	17
				X	5	3 8 10	5.33 B	19		597.4	Medium dense to dense, gray SILT; moist to saturated --RDR 2--		X	13	4 14 30	3.00 P	17
				X	6	5 7 10	3.85 B	19					X	14	12 9 8	NP	19
				X	7	3 7 10	4.26 B	18		594.1	Boring terminated at 35.00 ft						
				X	8	2 5 6	1.89 B	18									
				X								40					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-27-2023** Complete Drilling **02-27-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&EH** Logger **F. Bozga** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

While Drilling ∇ **32.00 ft**
 At Completion of Drilling ∇ **33.00 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.

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WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 627.18 ft
 North: 1764477.40 ft
 East: 1039793.59 ft
 Station: 572+07.88
 Offset: 32.236 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	626.5	8-inch thick ASPHALT --PAVEMENT--															
	626.2	4-inch thick, black SANDY LOAM --BASE COURSE--			1	5 4 5	2.50 P	24						9	4 7 9	3.20 B	21
		Very stiff to hard, black SILTY CLAY, trace gravel; moist --FILL-- --RDR 2--			2	6 8 10	4.02 B	20			--sand lenses--	25		10	3 5 7	1.97 B	22
	621.7	Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp to moist --RDR 2--			3	6 9 10	6.72 B	16						11	3 5 7	2.05 B	21
					4	8 9 13	5.41 B	16				30		12	3 5 8	2.05 B	20
		--sand seam--			5	6 10 13	7.87 B	17									
					6	7 10 14	4.76 B	19						13	4 6 11	2.71 B	21
					7	5 8 8	2.71 B	22		592.2	Boring terminated at 35.00 ft	35					
					8	5 6 8	2.46 B	18				40					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-27-2023** Complete Drilling **02-27-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **RH&JD** Logger **A. Scifers** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG OHS08-01

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 625.93 ft
 North: 1764487.82 ft
 East: 1039964.58 ft
 Station: 573+79.15
 Offset: 28.633 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Hard, black SILTY CLAY, trace gravel; moist															
		--TOPSOIL--															
	622.9				1	4 5 9	4.10 B	19						9	4 6 8	2.38 B	21
		Stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; moist															
		--RDR 2--			2	3 4 6	2.30 B	18				25		10	3 6 7	2.71 B	21
					3	3 5 8	4.10 B	23						11	4 5 7	1.97 B	20
					4	3 8 10	5.66 B	17						12	3 4 8	2.38 B	21
		--silt seam--			5	5 8 9	3.69 B	19									
					6	4 8 10	4.43 B	19			--sand seam--			13	12 20 16	> 4.50 P	16
					7	5 6 8	2.87 B	11		590.9	Boring terminated at 35.00 ft						
					8	4 6 9	2.87 B	16									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-27-2023** Complete Drilling **02-27-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **RH&JD** Logger **A. Scifers** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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.

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BORING LOG OHS08-02

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WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 622.81 ft
 North: 1764408.47 ft
 East: 1039968.25 ft
 Station: 573+79.65
 Offset: 108.065 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	622.3	6-inch thick, black SILTY CLAY LOAM --TOPSOIL-- Very stiff, brown and gray SILTY CLAY, trace gravel --FILL-- --RDR 2--			1	2 3 4	2.05 B	22						9	3 6 8	2.54 B	21
			5		2	3 4 5	2.46 B	23				25		10	3 5 7	1.39 B	22
	617.3	Stiff to hard, brown to gray SILTY CLAY, trace gravel --RDR 2--			3	4 6 7	6.40 B	17						11	4 5 8	1.64 B	21
			10		4	6 7 11	5.74 B	18				30		12	5 6 9	1.72 B	21
					5	4 8 9	4.26 B	20						13	8 10 12	NR	
			15		6	3 5 8	2.30 B	23		587.8		35		14	4 7 18	1.48 B	17
					7	5 6 11	2.87 B	19			Boring terminated at 35.00 ft						
			20		8	3 7 9	3.20 B	20				40					

GENERAL NOTES

Begin Drilling **02-24-2023** Complete Drilling **02-24-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&EH** Logger **F. Bozga** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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.



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BORING LOG OHS09-01

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 640.43 ft
 North: 1764715.49 ft
 East: 1043109.11 ft
 Station: 605+30.25
 Offset: 73.539 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 (%)
	640.14	14-inch thick ASPHALT --PAVEMENT-- Stiff to very stiff, brown, gray, and black SILTY CLAY, trace to little gravel; damp to moist --FILL-- --RDR 2-3--															
					1	3 4 4	2.21 B	22						9	4 7 6	2.71 B	27
			5		2	3 3 4	1.48 S	24				25		10	4 6 7	2.54 B	20
					3	3 4 5	3.12 B	30						11	4 4 6	1.56 B	23
					4	3 3 5	2.21 B	27				30		12	3 4 7	1.72 B	22
		--wet spoon--	10							610.4							
					5	2 50/3"	2.00 P	31			Boring terminated at 30.00 ft						
	626.2	Stiff to hard, gray SILTY CLAY to CLAY, trace gravel; damp --RDR 2--	15		6	11 13 14	NR					35					
					7	8 10 16	5.17 B	22									
					8	4 6 8	3.61 B	22				40					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-07-2023** Complete Drilling **02-07-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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.

WANGENGINC 79011501.GPJ WANGENG.GDT 6/6/23



BORING LOG OHS09-02

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WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 641.14 ft
 North: 1764672.45 ft
 East: 1043112.44 ft
 Station: 605+31.87
 Offset: 30.403 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 (%)
	640.1	12-inch thick ASPHALT --PAVEMENT--															
		Stiff to hard, brown, gray, black, and green SILTY CLAY, trace gravel; damp to moist			1	6 4 6	4.50 P	17						9	3 4 7	1.97 B	24
		--FILL-- --RDR 2--			2	2 5 6	1.39 B	16				25		10	4 5 8	2.13 B	22
	634.2	Black SILTY CLAY --Buried TOPSOIL--			3	5 5 8	1.72 B	23						11	5 7 9	2.79 B	21
	633.1	Stiff to hard, brown to gray SILTY CLAY, trace gravel; moist			4	5 5 4	2.36 B	24			--silt seam--	30		12	4 4 6	1.89 B	22
		--RDR 2--			5	7 11 12	NR										
					6	5 10 13	5.17 B	18				35		13	5 7 10	1.56 B	18
					7	5 8 10	4.02 B	20									
					8	4 7 8	3.12 B	19			--sand seam--	40		14	5 9 9	1.97 B	21
	601.1																

Boring terminated at 40.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-26-2023** Complete Drilling **02-27-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **RH&JD** Logger **A. Scifers** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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BORING LOG OHS10-01

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 638.00 ft
 North: 1764730.97 ft
 East: 1043213.62 ft
 Station: 606+35.30
 Offset: 84.844 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 (%)
	637.3	8-inch thick, black and dark brown SILTY CLAY LOAM --TOPSOIL--															
		Stiff to hard, brown SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--			1	3 3 5	1.50 P	29						9	3 3 6	1.89 B	22
					2	2 3 2	1.50 P	24				25		10	3 4 7	1.89 B	22
		--saturated silt seam--			3	2 6 7	5.82 B	18						11	4 4 7	1.23 B	23
					4	5 9 11	2.00 P	18						12	4 4 6	1.72 B	22
					5	7 10 11	3.50 P	18		608.0		30					
					6	3 6 5	3.36 B	22			Boring terminated at 30.00 ft						
	625.0	Stiff to very stiff, gray SILTY CLAY, trace gravel; damp --RDR 2--			7	4 5 6	2.71 B	23									
					8	3 3 6	2.95 B	22									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-08-2023** Complete Drilling **02-08-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **KS&AP** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

While Drilling ∇ **6.50 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 OHS10-02

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WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 640.51 ft
 North: 1764666.55 ft
 East: 1043217.32 ft
 Station: 606+36.43
 Offset: 20.331 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 (%)
	639.9	8-inch thick, black SANDY LOAM --TOPSOIL--															
		Very stiff to hard, brown and gray SILTY CLAY, trace gravel; damp to moist --FILL-- --RDR 2--	8 8 9		1	8 8 9	5.66 B	19						9	5 7 6	3.94 B	21
			5 5 9		2	5 5 9	3.03 B	22				25		10	3 6 8	3.28 B	20
			6 6 7		3	6 6 7	2.62 B	18						11	3 7 8	2.38 B	22
	632.5	Stiff to hard, brown to gray SILTY CLAY, trace gravel; moist --RDR 2--	3 4 7		4	3 4 7	3.05 B	26				30		12	6 5 9	2.05 B	21
			5 8 10		5	5 8 10	5.99 B	17						13	5 7 8	1.80 B	22
			3 9 10		6	3 9 10	6.15 B	21				35		14	5 6 10	2.05 B	20
			5 10 11		7	5 10 11	5.49 B	21		605.5	Boring terminated at 35.00 ft						
			4 6 9		8	4 6 9	3.44 B	23				40					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-26-2023** Complete Drilling **02-27-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **RH&JD** Logger **A. Scifers** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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

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WANGENGINC 79011501.GPJ WANGENG.GDT 6/6/23



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WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 640.54 ft
 North: 1764621.43 ft
 East: 1044275.39 ft
 Station: 616+91.86
 Offset: 66.922 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	639.5	12-inch thick ASPHALT --PAVEMENT--															
		Stiff to very stiff, gray, green and brown SILTY CLAY, trace gravel; damp			1	3 3 4	2.50 P	20						9	5 14 18	9.84 B	17
		--FILL-- --RDR 2--			2	6 3 3	2.13 B	22				25		10	8 13 20	10.25 B	17
					3	5 8 7	1.89 B	18						11	7 10 13	9.18 B	19
	632.5	Stiff to hard, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp to moist			4	6 6 7	2.75 P	21						12	3 6 6	1.23 B	16
		--RDR 2--			5	9 9 7	2.50 P	17						13	8 14 15	1.00 P	17
					6	4 7 8	3.00 P	18						14	8 10 12	2.50 P	14
					7	3 5 10	2.71 B	21									
					8	4 5 10	2.79 B	20									
										605.5	Boring terminated at 35.00 ft	35					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-12-2023** Complete Drilling **04-12-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&EH** Logger **B. Miller** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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.

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BORING LOG OHS12-01

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 626.82 ft
 North: 1764788.62 ft
 East: 1044735.62 ft
 Station: 621+58.39
 Offset: 81.794 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 (%)	
	626.63	3-inch thick, dark brown SILTY CLAY LOAM																
		--TOPSOIL--																
		Very stiff to hard, brown SILTY CLAY, trace gravel; damp			1	4 4 8	4.26 S	20						9	6 8 13	4.10 B	17	
		--FILL--																
		--RDR 2--																
					2	4 9 13	2.50 P	24						10	8 13 19	8.04 B	18	
			5							602.2	Gray SILT; saturated	25						
										601.3	Very stiff (2.00P), gray SILTY CLAY							
					3	8 11 26	7.22 B	21			600.4	Medium dense, gray, medium SAND to SANDY LOAM, trace gravel; wet						
											--RDR 2--			5 9 12	NP	14		
											--RDR 2--							
					4	7 10 11	6.56 B	21			597.9	Hard, gray SILTY CLAY, trace gravel; damp						
			10								--RDR 2--			6 6 3	6.56 B	18		
										596.8	Boring terminated at 30.00 ft							
					5	11 14 14	3.50 P	21										
	613.8	Very stiff, brown SILTY CLAY, trace gravel; damp to moist																
		--RDR 2--																
	612.2	Brown SILT; wet	15		6	6 5 6	3.69 B	19										
	611.3	Very stiff, brown SILTY CLAY, trace gravel; moist																
		--RDR 2--																
	609.8	Brown SILT to SILTY LOAM, trace gravel; wet			7	6 7 9	2.38 B	18										
	608.8	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp to moist																
		--RDR 2--																
					8	4 6 9	3.28 B	22										
			20															

GENERAL NOTES

Begin Drilling **02-01-2023** Complete Drilling **02-01-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D120A[78%]**
 Driller **NC&DZ** Logger **N. Karahalios** Checked by **J. Bensen**
 Drilling Method **3.25" IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **14.60 ft**
 At Completion of Drilling **30.00 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 79011501.GPJ WANGENG.GDT 6/6/23



BORING LOG OHS13-01

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WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 633.78 ft
 North: 1764769.70 ft
 East: 1044307.59 ft
 Station: 617+29.94
 Offset: 79.945 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 (%)
	633.0	9-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Stiff to hard, brown and gray SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--			1	3 4 4	3.20 B	20						9	14 10 20	10.25 B	16
			5		2	3 4 4	2.46 B	22				25		10	12 15 32	9.02 B	17
					3	3 3 4	1.64 B	24						11	15 17 27	7.79 B	18
			10		4	6 6 7	1.07 B	20				30		12	16 9 16	5.71 B	18
					5	6 5 10	4.26 B	22									
	620.8	Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2--	15		6	8 8 9	2.87 B	25		598.8		35		13	15 11 12	2.50 P	20
					7	15 16 16	3.00 P	18			Boring terminated at 35.00 ft						
			20		8	10 11 20	3.00 P	17				40					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-01-2023** Complete Drilling **06-02-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&GUS** Logger **M. Rojo** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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 OHS13-02

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WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 637.02 ft
 North: 1764686.53 ft
 East: 1044306.67 ft
 Station: 617+25.71
 Offset: 3.124 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	636.4	7-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown and gray SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--			1	2 3 5	2.05 B	19						9	7 12 17	7.79 B	18
			5		2	2 3 5	2.05 B	18				25		10	6 13 19	6.72 B	19
					3	4 5 4	1.64 B	20						11	10 14 13	4.50 P	16
			10		4	2 3 3	1.32 B	18						12	6 13 14	4.50 P	17
	626.5	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			5	5 5 7	4.59 B	19									
			15		6	5 8 8	2.50 P	21		602.0		35		13	5 6 11	4.02 B	20
					7	9 16 23	10.25 B	18			Boring terminated at 35.00 ft						
			20		8	10 15 25	9.51 B	17				40					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-31-2023** Complete Drilling **06-01-2023**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&GUS** Logger **M. Rojo** Checked by **J. Bensen**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

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 79011501.GPJ WANGENG.GDT 6/6/23



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BORING LOG WA-BSB-01

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
 Project **I-80 Reconstruction (Houbolt Rd to Center St)**
 Location **Will County, Illinois**

Datum: NAVD 88
 Elevation: 637.53 ft
 North: 1764933.78 ft
 East: 1046708.69 ft
 Station: 21+47.90
 Offset: 32.52 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 (%)
	637.24	1/2-inch thick, black SILTY CLAY LOAM															
		--TOPSOIL--															
		Hard, brown SILTY CLAY LOAM, trace to some gravel; damp			1	4 7 7	4.50 P	17						9	6 9 11	3.94 B	20
		--FILL--															
		--RDR 2--															
		--L _L (%)=35, P _L (%)=16--															
		--%Gravel=10.8--															
		--%Sand=14.4--			2	11 4 5	NA	8				25		10	5 6 6	4.92 B	24
		--%Silt=48.1--															
		--%Clay=26.7--															
		--A-6 (12)--															
	632.0	Very stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp			3	3 3 5	5.83 B	18						11	5 6 8	2.46 B	16
		--RDR 2--															
					4	9 10 13	7.38 B	18						12	5 5 7	2.21 B	20
					5	11 12 15	8.61 B	18									
		--L _L (%)=36, P _L (%)=16--															
		--%Gravel=2.4--															
		--%Sand=5.9--			6	4 7 8	7.63 B	19						13	5 5 8	3.03 B	22
		--%Silt=56.3--															
		--%Clay=35.4--															
		--A-6 (18)--															
					7	5 8 9	3.69 B	19		600.8	Gray SILTY LOAM; wet						
											--RDR 2--						
					8	4 4 6	3.03 B	21		598.5	Medium dense to very dense, brown SANDY GRAVEL; damp			14	6 2 18	NP	23

GENERAL NOTES

Begin Drilling **03-23-2021** Complete Drilling **03-23-2021**
 Drilling Contractor **Wang Testing Services** Drill Rig **20CME55T[81%]**
 Driller **RR&J** Logger **I. Nenn** Checked by **C. Marin**
 Drilling Method **2.25" IDA HSA; boring backfilled upon completion**

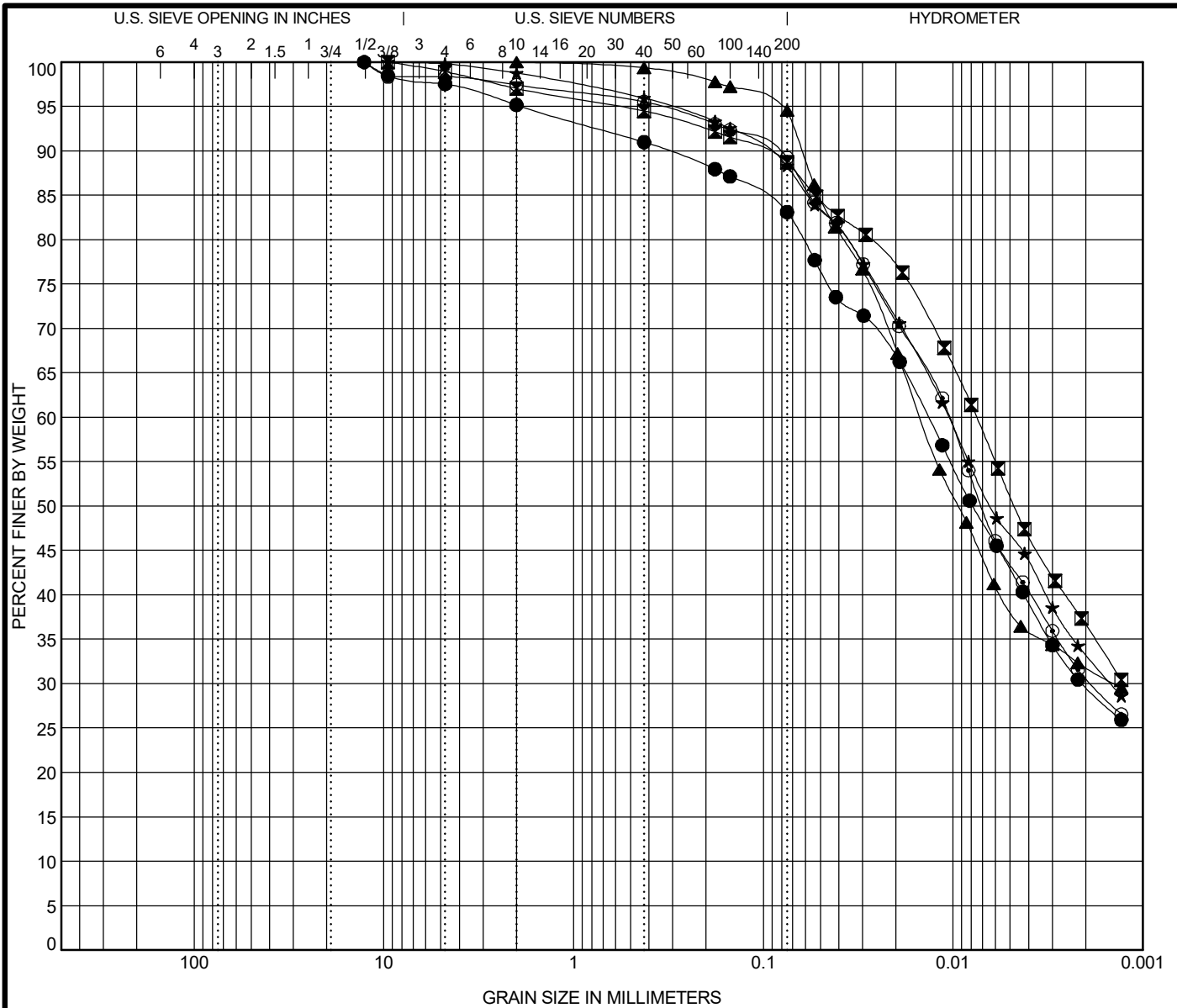
WATER LEVEL DATA

While Drilling **36.75 ft**
 At Completion of Drilling **NA**
 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 79011501.GPJ WANGENG.GDT 6/6/23

APPENDIX B



COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification			IDH Classification					LL	PL	PI	Cc	Cu
●	NAW17-04#5	11.0 ft	Silty Clay					30	14	16		
☒	NAW17-08#3	6.0 ft	Silty Clay					36	17	19		
▲	NAW17-16#3	6.0 ft	Silty Clay					45	16	29		
★	NAW19-06#2	3.5 ft	Silty Clay					36	17	19		
◎	NAW20-02#3	6.0 ft	Silty Clay					37	17	20		
Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	NAW17-04#5	11.0 ft	12.7	0.014	0.002		4.8	12.3	53.3	29.6		
☒	NAW17-08#3	6.0 ft	9.5	0.008			3.0	8.5	51.9	36.6		
▲	NAW17-16#3	6.0 ft	2	0.015	0.001		0.0	5.8	62.4	31.8		
★	NAW19-06#2	3.5 ft	9.5	0.011	0.001		1.2	10.6	54.9	33.3		
◎	NAW20-02#3	6.0 ft	12.7	0.01	0.002		2.6	8.4	58.3	30.7		

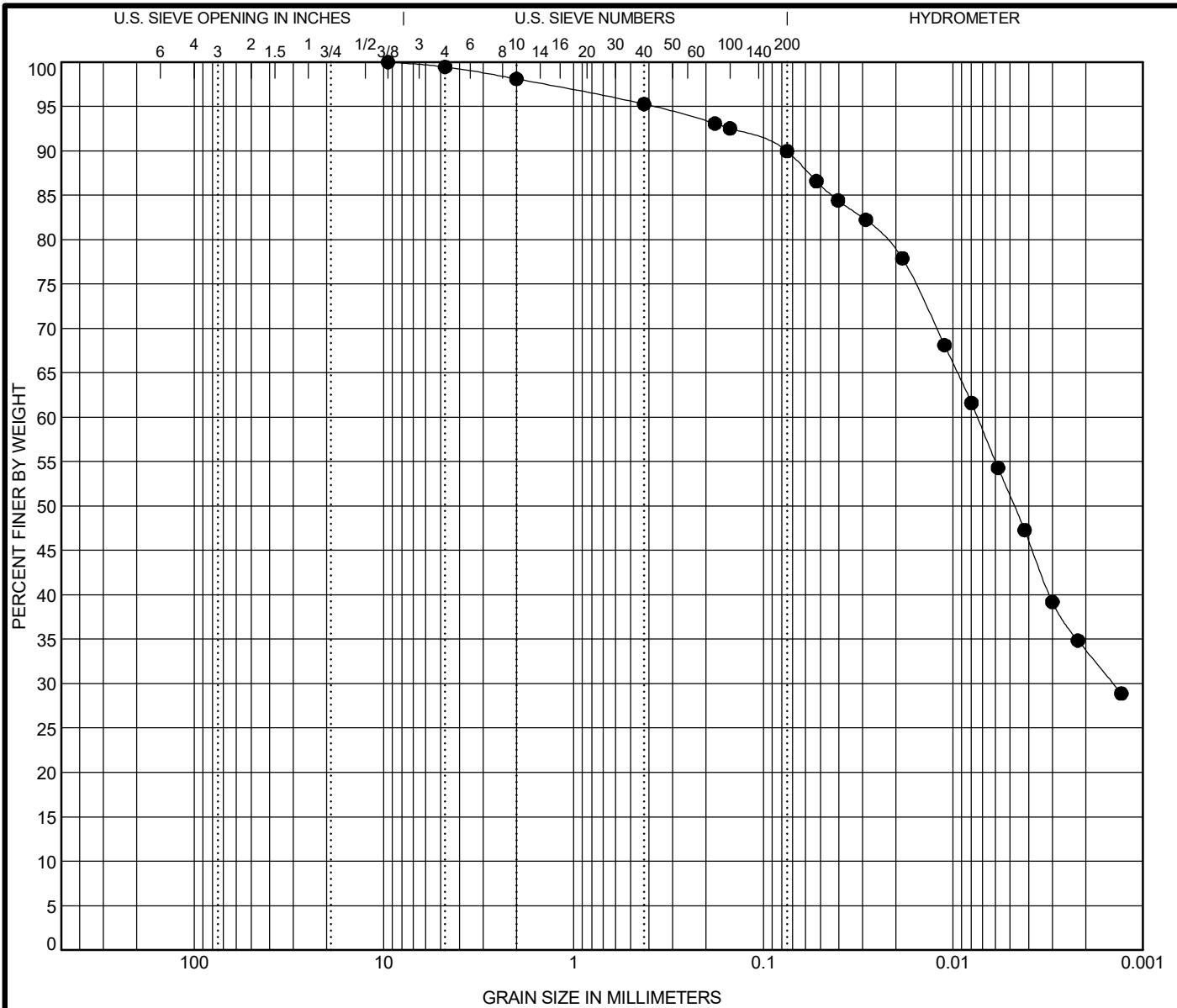
WEI GRAIN SIZE IDH 79011501.GPJ US LAB.GDT 5/25/23



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GRAIN SIZE DISTRIBUTION

Project: I-80 Reconstruction (Houbolt Rd to Center St)
 Location: Will County, Illinois
 Number: 7901-15-01



COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification					LL	PL	PI	Cc	Cu
●	NAW20-09#5 11.0 ft	Silty Clay					37	17	20		

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	NAW20-09#5 11.0 ft	9.5	0.007	0.001		1.9	8.3	56.1	33.8



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