
GEOTECHNICAL REPORT
I-80 Noise Walls
IDOT Job No. D-91-205-19
New Lenox, Will County, IL

Prepared for:

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JOB NO. 20012

January 3, 2023
Revised: January 13, 2023
March 22, 2023



November 18, 2022
Revised: January 13, 2023
Revised: March 22, 2023

EXP US Services Inc.
205 North Michigan Avenue, Suite 3600
Chicago, Illinois 60601-5924

Attn: Mr. Thomas Hough, P.E.,
Email: Thomas.Hough@exp.com

Job No. 20012

Re: Noise Wall Geotechnical Report I-80
Contract No.: 62R29
IDOT Job Number D-91-205-19
New Lenox, Will County, Illinois

Dear Mr. Hough:

The following report presents the Phase II geotechnical analysis and recommendations for the construction of the proposed noise walls along I-80 corridor from Chicago St. to Route 30. Borings associated with the noise walls include a total of ninety-two (92) structure borings (NWB-001 through NWB-079 and alternate "A" boring locations). Borings were completed at the site by Geo Services, Inc. (GEO). Copies of these boring logs, along with soil profiles, are included in this report.

If there are any questions regarding the information submitted herein, please do not hesitate to contact us.

Very truly yours,

GEO SERVICES, Inc.

Nawras Alhadab
Project Manager

Andrew J. Ptak, P.E.
Principal Engineer

enc.



expires 11/30/23

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SECTION 01: INTRODUCTION

This report presents the results of the geotechnical investigation for the proposed Phase II noise walls along interstate highway I-80 as part of the I-80 from Chicago St. to Route 30 improvements, in Will County, IL. The results of associated noise wall borings completed by Geo Services Inc., along with general notes in Appendix A, site location map found in Appendix B, boring location plans and profiles found in Appendix C, boring logs found in Appendix D, lab data found in Appendix E, and TS&L drawings found in Appendix F are included in this report.

Proposed boring locations were selected by Geo Services, Inc. (GEO) and were reviewed and approved by EXP US Services, Inc. (EXP). Boring locations were laid out in the field by GEO personnel at the proposed locations. After review of utilities, the as-drilled locations are shown on the boring location plans found in Appendix C and on the boring logs located in Appendix D.

This report includes recommendations pertaining to the design and construction of the noise walls, a description of soil and groundwater conditions, general construction considerations for the site, site location map, boring location diagram, profiles and boring logs.

SECTION 02: PROJECT DESCRIPTION

The scope of work consists of providing Phase II engineering services for the proposed improvements include reconstruction and widening of I-80 from Chicago Street to US Route 30. This section of roadway begins in Joliet, IL and runs through unincorporated Will County and ends in New Lenox, IL.

As part of the I-80 reconstruction and widening project, (Job No. D-91-205-19), improvement includes proposed noise walls, retaining walls and bridge work. This report provides recommendations for the new noise walls along the widened I-80 corridor.

SECTION 03: SUBSURFACE INVESTIGATION PROCEDURES

The borings were performed during the time period from February 2022 to March 2022, with either an ATV-mounted drilling rig or truck-mounted drilling rig. Borings were advanced using hollow stem augers to completion, or using solid flight auger to 10-ft and using rotary methods to completion. Representative soil samples were obtained employing split spoon sampling procedures in accordance with AASHTO Method T-206 for the drilling rigs. Samples obtained in the field were returned to our laboratory for further examination and testing.

Split spoon sampling involves driving a 2.0-inch outside diameter split-barrel sampler into the soil with a 140-pound weight falling freely through a distance of 30 inches. Blow counts are recorded at 6" intervals and the blow counts are shown on the boring logs. The number of blows required to advance the sampler the last 12 inches is termed the Standard Penetration Resistance (N). The N value is an indication of the relative density of the soil.

Bedrock coring was performed by the dual tube method using NX size, 10 feet length core barrel seated approximately 2 feet into bedrock for the twenty (20) retaining wall soil borings chosen for rock core sampling. The full length of the boring was cased using 3-inch diameter casing which was seated approximately 6-in into bedrock to prevent cave-in of the boring while coring. Twenty (20) bedrock cores were obtained in 10 feet runs out of the ninety-two (92) borings at various noise wall locations along the I-80 corridor.

SECTION 04: LAB TESTING PROGRAM

The test procedures were performed in accordance with test procedures discussed in the IDOT Geotechnical Manual. All split-spoon samples obtained from the drilling operation were visually classified in the field. Cohesive samples were tested for unconfined compressive strength using an IDOT modified RIMAC test device and/or calibrated penetrometer in the field.

The soil testing program included performing water content, density and either unconfined compression and/or calibrated penetrometer tests on the cohesive samples recovered. These tests were performed upon representative portions of the samples obtained in the field. The results of the above testing, along with a visual classification of the material based upon both the Illinois textural classification and the AASHTO Soil Classification System, are indicated on the boring logs.

In addition to the regular lab testing program, Atterberg Limits (AASHTO T-89/90), Organic Content (AASHTO T267) and Particle Size Analysis (AASHTO T-88) or Grain Size Analysis (AASHTO T-311) tests were performed on select samples from the borings. The tests were performed upon a representative portion of the samples obtained in the field. The data obtained from testing can be found in Appendix E.

SECTION 05: SUBSURFACE & WATER TABLE CONDITIONS

Specific soil conditions encountered in the borings are shown on the boring logs in Appendix D. The following are descriptions for general soil and water table conditions for each noise wall.

Noise Wall B31

The borings associated with Noise Wall B31 include NWB-001 through NWB-011. Surficial soils consisted of approximately 12" of clayey topsoil or crushed stone. Below the surficial soils a thin layer of stiff silty clay was encountered to depths ranging from 1-5-ft. A layer of sand & gravel was encountered below the silty clay to depths of up to 9-ft. All borings encountered bedrock causing termination of boring at depths ranging from 3 to 10-ft below existing grade. All rock cores consist of Niagaran series dolomite with large amounts of fracturing and some rust staining.

The clay loam layer had moisture contents ranging from 17%-25% with an average of 21%, an SPT blow count ranging from 3-71 blows/ft with an average of 18 blows/ft, and a cohesion ranging from 1-2.75 tsf with an average of 1.7 tsf.

Ground water was not encountered during or after drilling above 10 feet. Ground water levels cannot be determined directly due to wash-rotary drilling methods used. Coloration changes in the samples from brown and gray to gray indicate the long-term ground water table at a depth of 8-10 feet from the existing ground surface.

Noise Wall B30

The borings associated with Noise Wall B30 include NWB-012 through NWB-017. Surficial conditions consisted of approximately 10"-16" of asphalt. Below the surficial layer a layer of crushed stone was encountered to termination of boring at 2-7 feet depth. Bedrock was encountered at all borings from depths ranging from 2-7 feet below existing grade surface. All rock cores consist of Niagaran series dolomite with some amounts of fracturing and some rust staining.

Ground water was not encountered during or after drilling above 10 feet. Ground water levels cannot be determined directly due to wash-rotary drilling methods used. Coloration changes in the samples from brown and gray to gray indicate the long-term ground water table at a depth of 8-10 feet from the existing ground surface.

Noise Wall B34

The borings associated with Noise Wall B34 include NWB-018A through NWB-037. Surficial soils consisted of approximately 12" of black topsoil or asphalt road. Below the surficial soils a layer of medium stiff to hard clay loam was encountered to depths of 20 to 25 feet below existing grade. Borings NWB-018 through NWB-026 had a pocket of

sand from depths of 20-25 feet. Borings NWB-027 through NWB-037 encountered bedrock at depths ranging from 16-20 feet below existing grade.

The clay loam layer had moisture contents ranging from 5%-50% with an average of 19%, an SPT blow count ranging from 4-50 blows/ft with an average of 18 blows/ft, and a cohesion ranging from 0.5-6.1 tsf with an average of 2.8 tsf.

Ground water was encountered during or directly after drilling at depths ranging from 5-20 feet below existing grade. Coloration changes in the samples from brown and gray to gray indicate the long-term ground water table at a depth of 8-10 feet from the existing ground surface.

Noise Wall B35

The borings associated with Noise Wall B35 include NWB-038 through NWB-045. Surficial soils consisted of approximately 12-24 inches of topsoil. Below the surficial soils, interspersed layers of silty clay, silt, silty loam, clay loam and silty sand were encountered to termination of boring at 25 feet depth.

The cohesive clay layers had moisture contents ranging from 14%-30% with an average of 20%, an SPT blow count ranging from 5-16 blows/ft with an average of 10 blows/ft, and a cohesion ranging from 0.5-3.25 tsf with an average of 1.7 tsf.

Ground water was encountered during or directly after drilling at depths ranging from 7-8 feet. Ground water levels cannot be determined directly due to wash-rotary drilling methods used below a depth of 10 feet. Coloration changes in the samples from brown and gray to gray indicate the long-term ground water table at a depth of 8-10 feet from the existing ground surface.

Noise Wall B36

The borings associated with Noise Wall B36 include NWB-046 through NWB-050. Surficial soils consisted of approximately 5-30 inches of topsoil. Below the surficial soils a layer of stiff to hard clay loam was encountered to a depth of 23 feet below existing grade, and a layer of silty clay/silt from a depth of 23 feet to termination of boring at 25 feet depth.

The clay loam layer had moisture contents ranging from 17%-35% with an average of 23%, an SPT blow count ranging from 6-22 blows/ft with an average of 13 blows/ft, and a cohesion ranging from 1-4 tsf with an average of 2.3 tsf. The silt layer from depths of 23-25 feet had moisture contents ranging from 17%-25% with an average of 20% and an SPT blow count ranging from 6-18 blows/ft with an average of 10 blows/ft.

Ground water was encountered during or after drilling at depths ranging from 6-8 feet depth. Ground water levels cannot be determined directly due to wash-rotary drilling methods used below 10 feet depth. Coloration changes in the samples from brown and

gray to gray indicate the long-term ground water table at a depth of 8-10 feet from the existing ground surface.

Noise Wall B37

The borings associated with Noise Wall B37 include NWB-051 through NWB-065. Surficial soils consisted of approximately 12" of topsoil. Below the surficial soils a layer of stiff to hard clay loam was encountered to termination of boring at 25 feet depth.

The clay loam layer had moisture contents ranging from 12%-37% with an average of 20%, an SPT blow count ranging from 4-55 blows/ft with an average of 12 blows/ft, and a cohesion ranging from 0.5-6.4 tsf with an average of 2.5 tsf.

At the East end of the noise wall near borings NWB-063 through NWB-065 there was a layer of silty clay with a small pocket of organic silty clay from depths of 1-5 feet below existing grade after which the aforementioned clay loam was encountered to termination of boring at 25 feet depth. The silty clay had moisture contents ranging from 28%-37% with an average of 32%, and SPT blow count ranging from 4-11 blows/ft with an average of 7 blows/ft, and a cohesion ranging from 0.7-1.8 tsf with an average of 1.1 tsf.

Ground water was encountered during or after drilling at depths ranging from 7-12 feet. Coloration changes in the samples from brown and gray to gray indicate the long-term ground water table at a depth of 8-12 feet from the existing ground surface.

Noise Wall B38

The borings associated with Noise Wall B38 include NWB-066 through NWB-079. Surficial soils consisted of approximately 3"-12" of topsoil or 10-14 inches of concrete. Below the surficial soils a layer of stiff to hard clay loam was encountered to termination of boring at 15 feet depth or until termination at bedrock. Borings NWB-075A, NWB-076A, NWB-077A, NWB-078A, and NWB-079A encountered bedrock consisting of Niagaran series dolomite with some weathering, cracking, and rust staining.

The clay loam layer had moisture contents ranging from 4%-38% with an average of 18%, an SPT blow count ranging from 1-85 blows/ft with an average of 17 blows/ft, and a cohesion ranging from 0.5-4.5 tsf with an average of 2.4 tsf.

Ground water was not encountered during or after drilling above 10 feet. Ground water levels cannot be determined directly due to wash-rotary drilling methods used. Coloration changes in the samples from brown and gray to gray indicate the long-term ground water table at a depth of 8-10 feet from the existing ground surface.

Bedrock

Bedrock cores were recovered from twenty (20) borings. Bedrock appeared to be of similar consistency throughout the borings which is classified as light gray to gray Silurian System, Niagaran Series Dolomite in all twenty (20) core runs. Furthermore,

rock core recovery ranged from 84% to 100%, with an average of 96.5%. Upon further analysis in our laboratory, RQD values varied greatly ranging from 5% to 94% (average RQD of 64%) see Table 2 in section 8.3. This is a poor rating of RQD, making this weathered rock with numerous weathered jointing.

SECTION 06: SEISMIC DATA

According to the AASHTO LRFD Bridge Design Specification 2020, the project site has a horizontal Response Spectral Acceleration Coefficient of 0.040 (S_1 , AASHTO Figure: 3.10.2.1-3) at a period of 1.0 second and 5% critical dampening and 0.104 (S_s , AASHTO Figure: 3.10.2.1-2) at a period of 0.2 seconds and 5% critical dampening and a Site Class: C according to the soil conditions. The project site is considered to be in a low seismic area. Liquefiable layers and scour are not expected to impact the design of the new retaining walls. The following table contains a summary of the seismic data to be used for design:

Table 1 – Seismic Data

Description	Type	Value
Long Term Horizontal Response Spectral Acceleration Coefficient (1.0 second period)	S_1	0.040 g
Short Term Horizontal Response Spectral Acceleration Coefficient (0.2 second period)	S_s	0.104 g
Design seismic value at 1 second	S_{D1}	0.068 g
Design seismic value at 0.2 second	S_{Ds}	0.125 g
Seismic Performance Zone	-	1
Site Class	-	C

SECTION 07: GENERAL WALL RECOMMENDATIONS

For noise walls drill-in pile foundations are typically used and recommended at this site. Economic, construction and scheduling factors should be evaluated for the decision of retaining wall design. The following sections provide a discussion of wall types and recommendations as they relate to the noise wall construction.

SECTION 08: ANALYSIS & RECOMMENDATIONS

8.1 Bearing Capacity

Noise walls are to be supported by drill-in pile foundations. There should be no bearing capacity concerns. The following table and the tables found in section 8.3 can be used for design of the drill-in foundations. At each of the following borings a 10-ft rock core was taken the depths and elevations listed in Table 2.

Table 2- BEDROCK CORE SUMMARY

Boring	Top of Bedrock Elevation (ft)	Recovery (%)	RQD (%)	Compressive Strength (tsf)
NWB-001	532.10	99	51	624
NWB-003	560.70	95	70	698
NWB-004	560.80	97	47	523
NWB-005	561.20	96	44	608
NWB-006	557.40	100	49	596
NWB-007	558.40	99	73	501
NWB-008	562.20	84	60	629
NWB-009	570.90	93	68	616
NWB-010	565.60	98	62	427
NWB-012	553.00	100	82	655
NWB-013	545.50	99	91	691
NWB-014	546.70	97	80	652
NWB-015	552.70	99	89	552
NWB-016	555.60	94	70	634
NWB-017	557.80	98	77	278
NWB-075A	640.30	100	4	320
NWB-076A	636.60	84	33	543

NWB-077A	632.80	100	94	418
NWB-078A	627.50	99	81	468
NWB-079A	629.3	100	59	598

8.2 Settlement

Noise walls are typically lightly loaded vertically. As such, settlement should be negligible regardless of the foundation type chosen to support the noise walls.

8.3 Lateral Soil Properties

In the following tables are summaries of lateral soil parameters to be used for design of the noise walls.

Table 3 – Soil Parameters for Lateral Resistance (NW-B31, NWB-001 through NWB-011)

Material	Unit Weight (pcf)	Drained Friction Angle (°)	Undrained Cohesion (psf)	Undrained Friction Angle (°)	Drained Cohesion (psf)
Stiff to Hard CLAY LOAM & SILTY CLAY	125	28	1667	0	0
SAND & GRAVEL	130	32	-	32	0
CRUSHED STONE	130	33	-	33	0

Table 4 – Soil Parameters for Lateral Resistance (NW-B30, NWB-0012 through NWB-017)

Material	Unit Weight (pcf)	Drained Friction Angle (°)	Undrained Cohesion (psf)	Undrained Friction Angle (°)	Drained Cohesion (psf)
Very Stiff CLAY LOAM	125	28	2,000	0	0
CRUSHED STONE	130	33	-	33	0

Table 5 – Soil Parameters for Lateral Resistance (NW-B34, NWB-018A through NWB-037)

Material	Unit Weight (pcf)	Drained Friction Angle (°)	Undrained Cohesion (psf)	Undrained Friction Angle (°)	Drained Cohesion (psf)
Medium Stiff to Hard CLAY LOAM & SILTY CLAY	125	28	2800	0	0
SILTY SAND	130	31	-	31	0

Table 6 – Soil Parameters for Lateral Resistance (NW-B35, NWB-038 through NWB-045)

Material	Unit Weight (pcf)	Drained Friction Angle (°)	Undrained Cohesion (psf)	Undrained Friction Angle (°)	Drained Cohesion (psf)
Stiff SILTY CLAY	125	27	1,300	0	0
Stiff CLAY LOAM	125	27	3,300	0	0
SILTY SAND	130	31	-	31	0
SAND	130	32	-	32	0
SANDY LOAM	130	30	-	30	0

Table 7 – Soil Parameters for Lateral Resistance (NW-B36, NWB-046 through NWB-050)

Material	Unit Weight (pcf)	Drained Friction Angle (°)	Undrained Cohesion (psf)	Undrained Friction Angle (°)	Drained Cohesion (psf)
Stiff to Very Stiff CLAY LOAM & SILTY CLAY	125	28	2300	0	0
Loose to Medium Dense SILT	130	30	-	30	0

Table 8 – Soil Parameters for Lateral Resistance (NW-B37, NWB-051 through NWB-065)

Material	Unit Weight (pcf)	Drained Friction Angle (°)	Undrained Cohesion (psf)	Undrained Friction Angle (°)	Drained Cohesion (psf)
Stiff to Very Stiff CLAY LOAM	125	28	2500	0	0
Medium Stiff SILTY CLAY	125	27	1300	27	0

Table 9 – Soil Parameters for Lateral Resistance (NW-B38, NWB-066 through NWB-079)

Material	Unit Weight (pcf)	Drained Friction Angle (°)	Undrained Cohesion (psf)	Undrained Friction Angle (°)	Drained Cohesion (psf)
Stiff to Hard CLAY LOAM	125	29	2500	0	0.
Medium Stiff to Stiff SILTY CLAY LOAM	125	27	1250	0	0
CRUSHED STONE	130	33	-	33	0
SILTY & SILTY SAND	130	31	-	31	0

Allowances should be made for any surcharge loads adjacent to the retaining structure. Proper drainage should be provided behind the walls. For the long-term active case (permanent case), cohesion in the clay layers should be ignored and the effective stress condition (drained friction angle) should be used. For the long-term passive case, the undrained cohesion should be used at undisturbed depths below the frost line (greater than 4 feet below the ground line).

SECTION 9: GENERAL CONSTRUCTION CONSIDERATIONS

If excavation for the proposed improvements are in excess of 4 feet, we recommend slopes be in accordance with OSHA safety standards and requirements for temporary side slopes. Movement of adjacent soils near the edge of and into excavation areas should be prevented. All excavations should be performed in accordance with the latest Occupational Safety and Health Administration (OSHA) requirements. Allowances should be made for any surcharge loads adjacent to the excavation areas.

Borings indicate that the water table will be located within clay soils and it is expected that ground water can be controlled with sump pump and pit procedures for most of the walls. Due to excavation above the water table, dewatering will likely be unneeded. In the event of any water, sump pump and pit procedures are likely to control water infiltration, and are recommended to keep the construction site dry.

SECTION 10: GENERAL QUALIFICATIONS

The analysis and recommendations presented in this report are based upon the data obtained from the soil borings performed at the indicated locations and from any other information discussed in this report. This report does not reflect any variations that may occur between borings or across the site. In addition, the soil samples cannot be relied on to accurately reflect the strata variations that usually exist between sampling locations. The nature and extent of such variations may not become evident until construction. If variations appear evident, it will be necessary to reevaluate the recommendations of the report. In addition, it is recommended that Geo Services Inc. be retained to perform construction observation and thereby provide a complete professional geotechnical engineering service through the observational method.

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted geotechnical engineering practices. No other warranties, either expressed or implied, are intended or made. In the event that any changes in the nature, design or location of the project as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed and the conclusions of this report modified or verified in writing by the geotechnical engineer. Also note that Geo Services Inc. is not responsible for any claims, damages, or liability associated with any other party's interpretation of this report's subsurface data or reuse of the report's subsurface data or engineering analyses without the express written authorization of Geo Services Inc.

APPENDIX A
GENERAL NOTES

GENERAL NOTES

CLASSIFICATION

American Association of State Highway & Transportation Officials (AASHTO) System used for soil classification.

Cohesionless Soils

<u>Relative Density</u>	<u>No. of Blows per foot N</u>
Very Loose	0 to 4
Loose	4 to 10
Medium Dense	10 to 30
Dense	30 to 50
Very Dense	Over 50

TERMINOLOGY

Streaks are considered to be paper thick. **Lenses** are considered to be less than 2 inches thick. **Layers** are considered to be less than 6 inches thick. **Stratum** are considered to be greater than 6 inches thick.

Cohesive Soils

<u>Consistency</u>	<u>Unconfined Compressive Strength - qu (tsf)</u>
Very Soft	Less than 0.25
Soft	0.25 - 0.5
Medium Stiff	0.5 - 1.0
Stiff	1.0 - 2.0
Very Stiff	2.0 - 4.0
Hard	Over 4.0

DRILLING AND SAMPLING SYMBOLS

SS: Split Spoon 1-3/8" I.D., 2" O.D.	HS: Housel Sampler
ST: Shelby Tube 2" O.D., except where noted	WS: Wash Sample
AS: Auger Sample	FT: Fish Tail
DB: Diamond Bit - NX: BX: AX	RB: Rock Bit
CB: Carboly Bit - NX: BX: AX	WO: Wash Out
OS: Osterberg Sampler	

Standard "N" Penetration: Blows per foot of a 140 lb. hammer falling 30" on a 2" O.D. Split Spoon

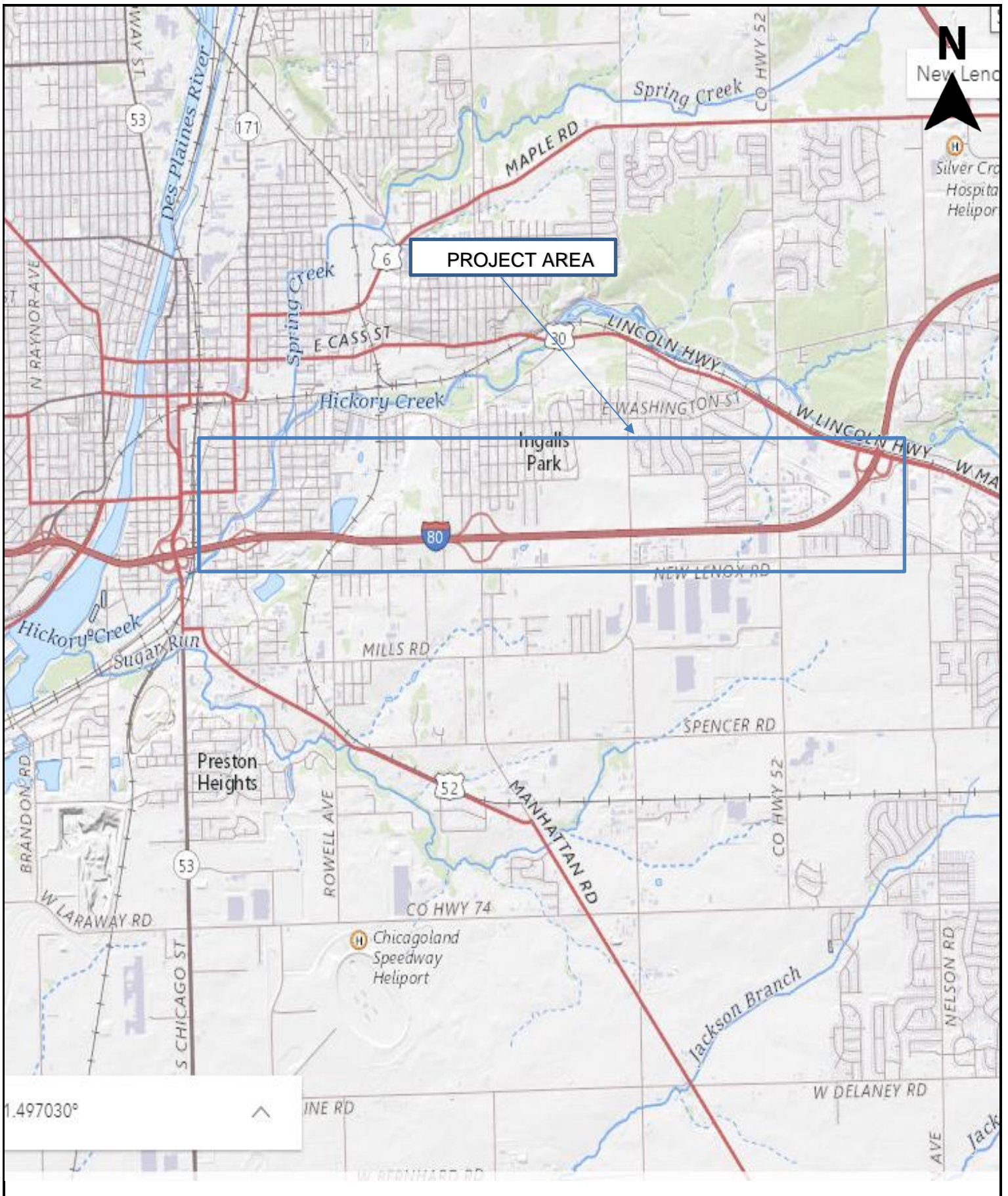
WATER LEVEL MEASUREMENT SYMBOLS

WL: Water	WD: While Drilling
WCI: Wet Cave In	BCR: Before Casing Removal
DCI: Dry Cave In	ACR: After Casing Removal
WS: While sampling	AB: After Boring

Water levels indicated on the boring logs are the levels measured in the boring at the times indicated. In pervious soils, the indicated elevations are considered reliable ground water levels. In impervious soils, the accurate determination of ground water elevations is not possible in even several days observation, and additional evidence on ground water elevations must be sought.

APPENDIX "

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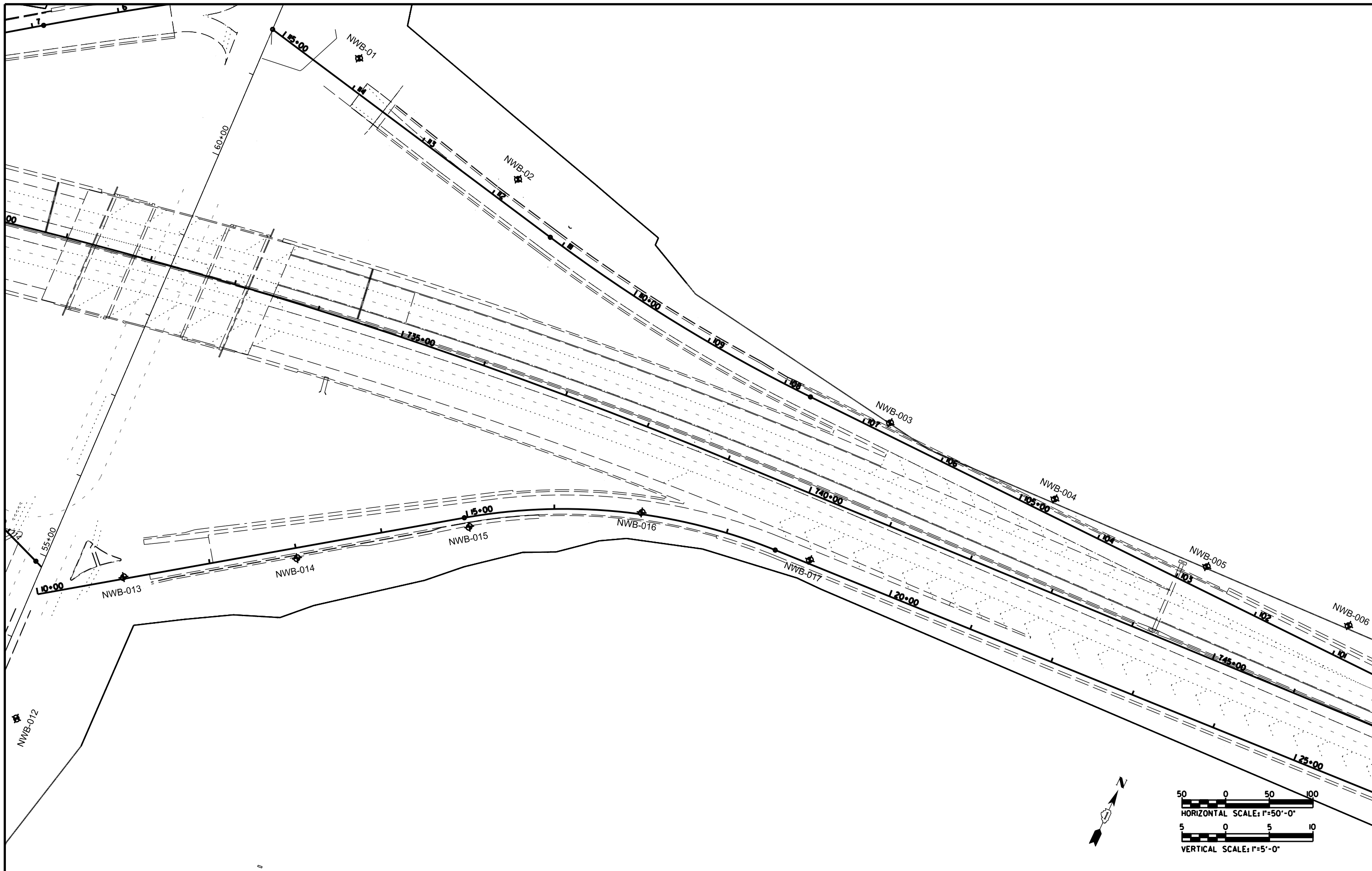


SITE MAP
IL 60/83 Noise Walls, Interstate-80, Joliet, IL 60433


Geo Services, Inc.
 Geotechnical, Environmental & Civil Engineering
 805 Amherst Court, Suite 204
 Naperville, Illinois 60565
 (630) 355-2838

DRAWN BY	NA
APPROVED BY	AP
DATE	November 14, 2022
GSI JOB No.	20012
SCALE	NTS

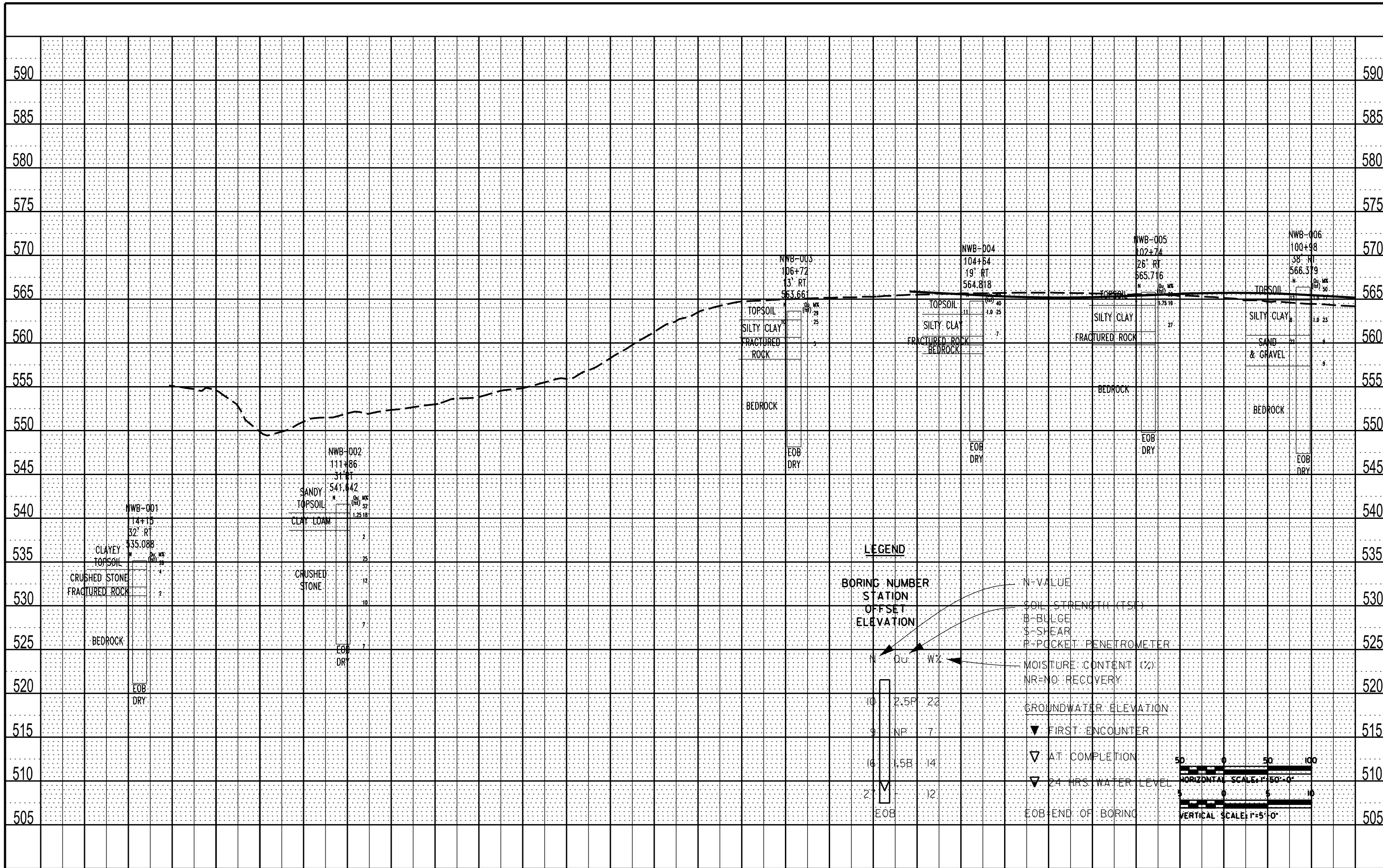
APPENDIX C
PLAN & PROFILE



	USER NAME = *USER*	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-80 FROM RIDGE ROAD TO US ROUTE 30 PREFERRED LONG-TERM IMPROVEMENT PLAN			F.A.P. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = *SCALE*	CHECKED - _____	REVISED - _____					CONTRACT NO.				
	PLOT DATE = *DATE*	DATE - 12/07/2022	REVISED - _____					SCALE: _____	SHEET NO. 1 OF 14 SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO.	ILLINOIS

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS C/P/D	
	NOTE BOOK NO.	
	STRUCTURE NOTATIONS C/P/D	



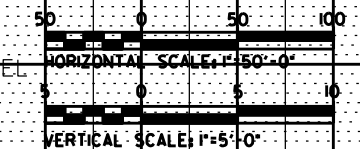
LEGEND

BORING NUMBER
STATION
OFFSET
ELEVATION

N - N-VALUE
 TSF - SOIL STRENGTH (TSF)
 B - BULGE
 S - SHEAR
 P - POCKET PENETROMETER
 W% - MOISTURE CONTENT (%)
 NR - NO. RECOVERY

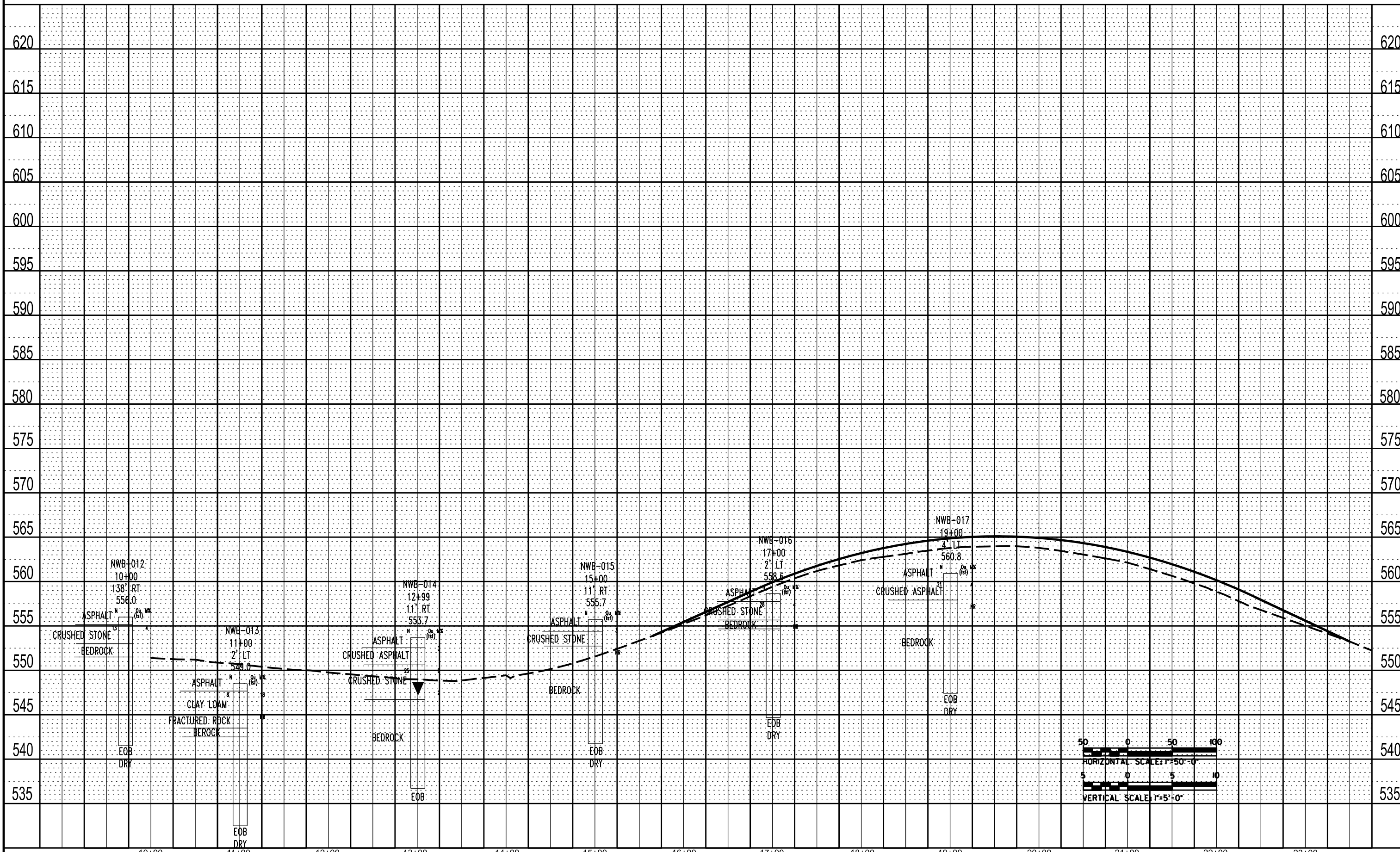
10' - 2.5P - 22'
 9' - NP - 7'
 16' - 1.5B - 14'
 27' - 12'

▽ - GROUNDWATER ELEVATION
 ▼ - FIRST ENCOUNTER
 ▽ - AT COMPLETION
 ▽ - 24 HRS. WATER LEVEL
 EOB - END OF BORING



PLAN	SURVEYED	DATE
	PLOTTED	
	NOTE BOOK	
	NO.	
	NO.	
	NO.	
	NO.	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	
	STRUCTURE	
	NOTATIONS	
	NO.	
	NO.	
	NO.	
	NO.	



USER NAME = \$USER*
 PLOT SCALE = \$SCALE*
 PLOT DATE = \$DATE*

DESIGNED -
 DRAWN - FF
 CHECKED - AJP
 DATE - 12/07/2022

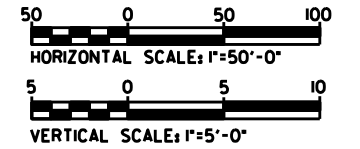
REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

1-80 FROM RIDGE ROAD TO US ROUTE 30
 PREFERRED LONG-TERM IMPROVEMENT PLAN
 PROFILE

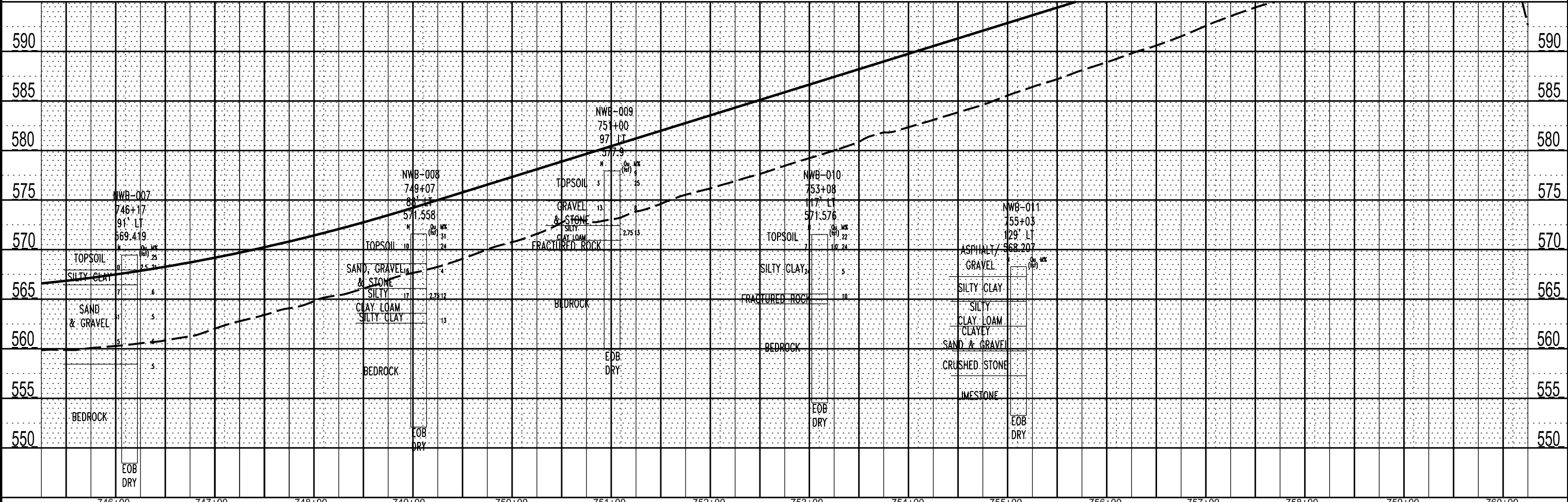
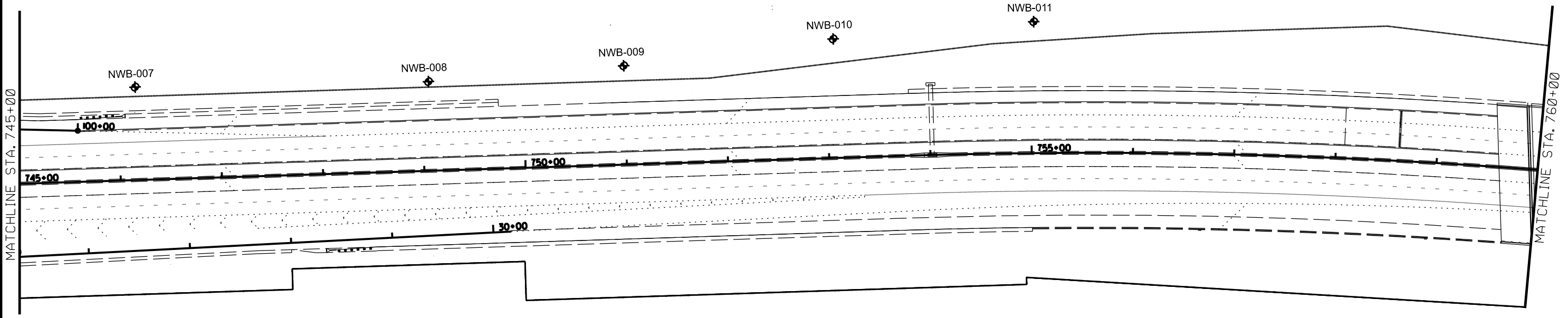
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14	03
FED. ROAD DIST. NO.			ILLINOIS	
CONTRACT NO.				



PLAN	SURVEYED	DATE
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	STRUCTURE NOTATIONS OK'D	
	NOTE BOOK NO.	
	FIELD FILE NAME	

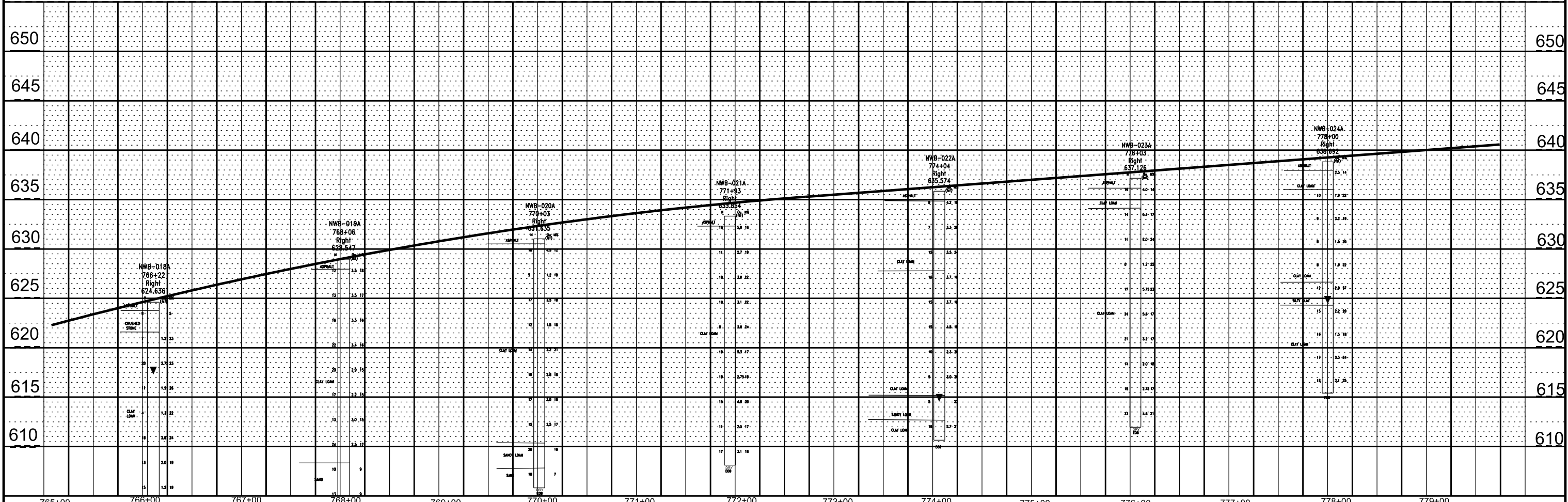
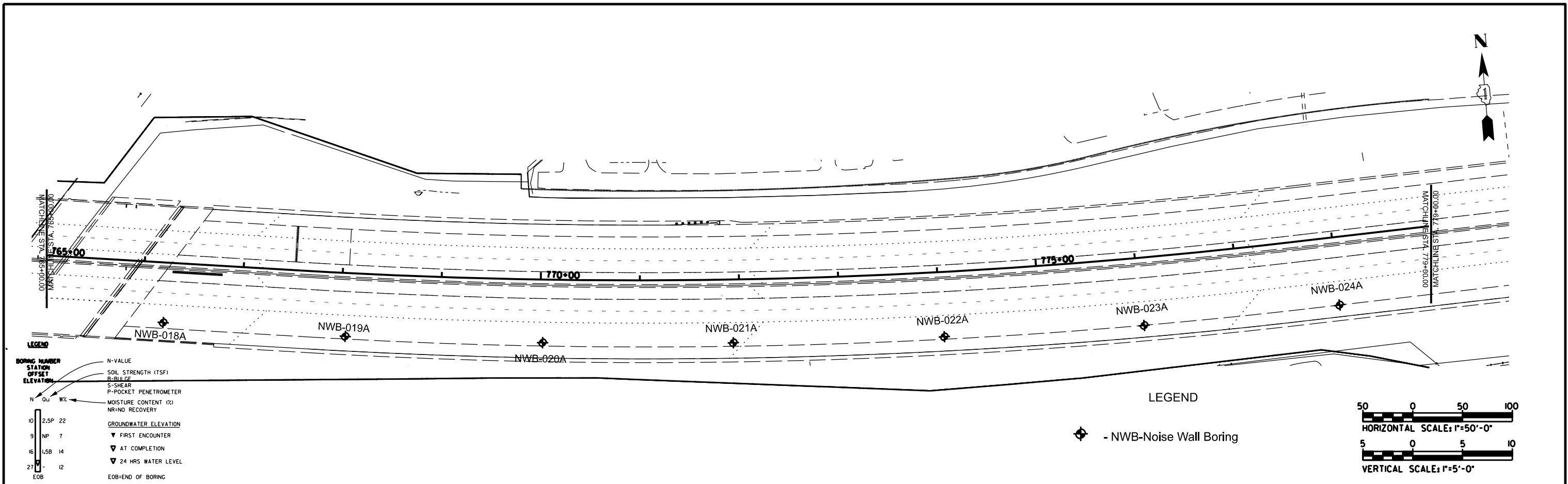
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	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	1-80 FROM RIDGE ROAD TO US ROUTE 30 PREFERRED LONG-TERM IMPROVEMENT PLAN PLAN AND PROFILE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -						14	4
	PLOT DATE = 12/13/2022	DRAWN - FF	REVISED -		SCALE:	SHEET 4 OF 14	STA. 746+00 TO STA. 760+00		CONTRACT NO.	
		CHECKED - AJP	REVISED -				FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

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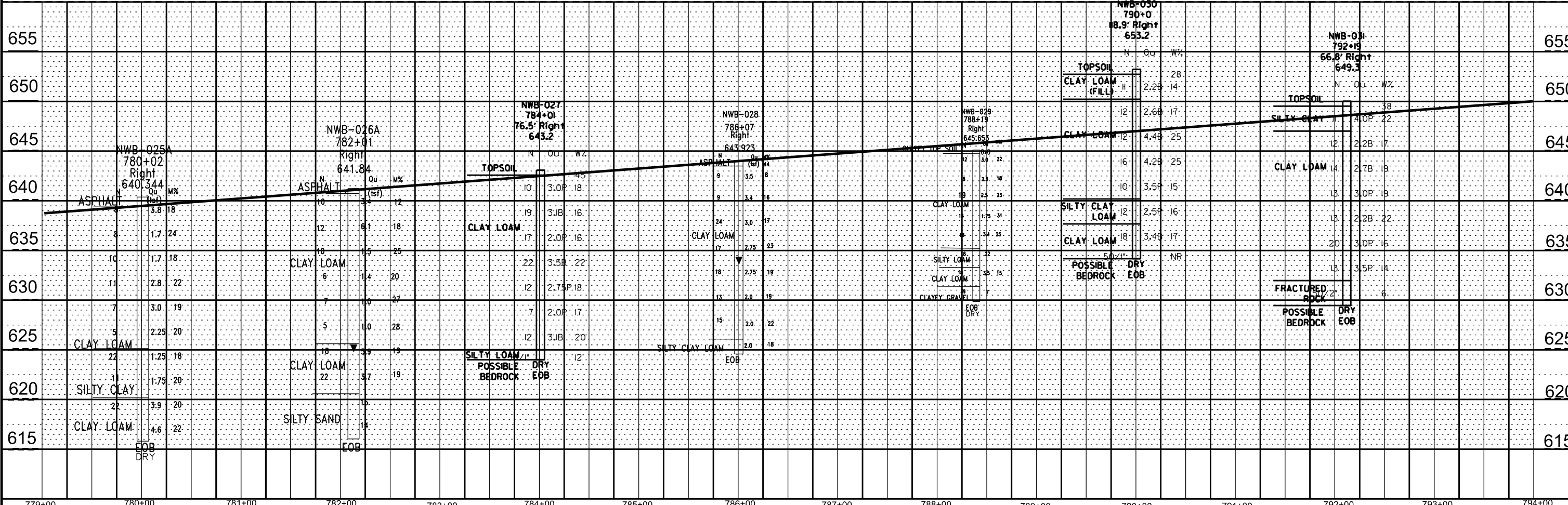
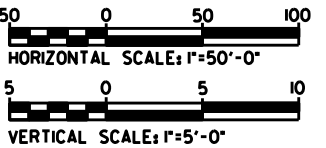
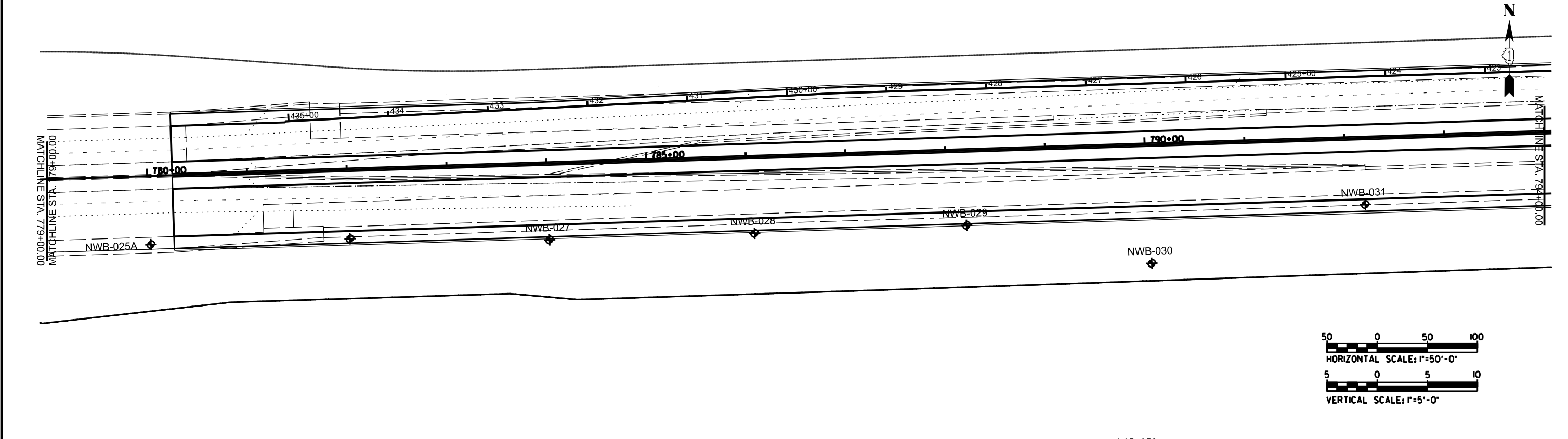
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NOTE BOOK	
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FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-80 FROM RIDGE ROAD TO US ROUTE 30 PREFERRED LONG-TERM IMPROVEMENT PLAN PLAN AND PROFILE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Geo Services, Inc.	PLOT SCALE = \$SCALE\$	CHECKED - SG	REVISD - FF						14	5
Geotechnical, Environmental and Civil Engineering	PLOT DATE = \$DATE\$	DRAWN - AJP	REVISD -			CONTRACT NO.		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT
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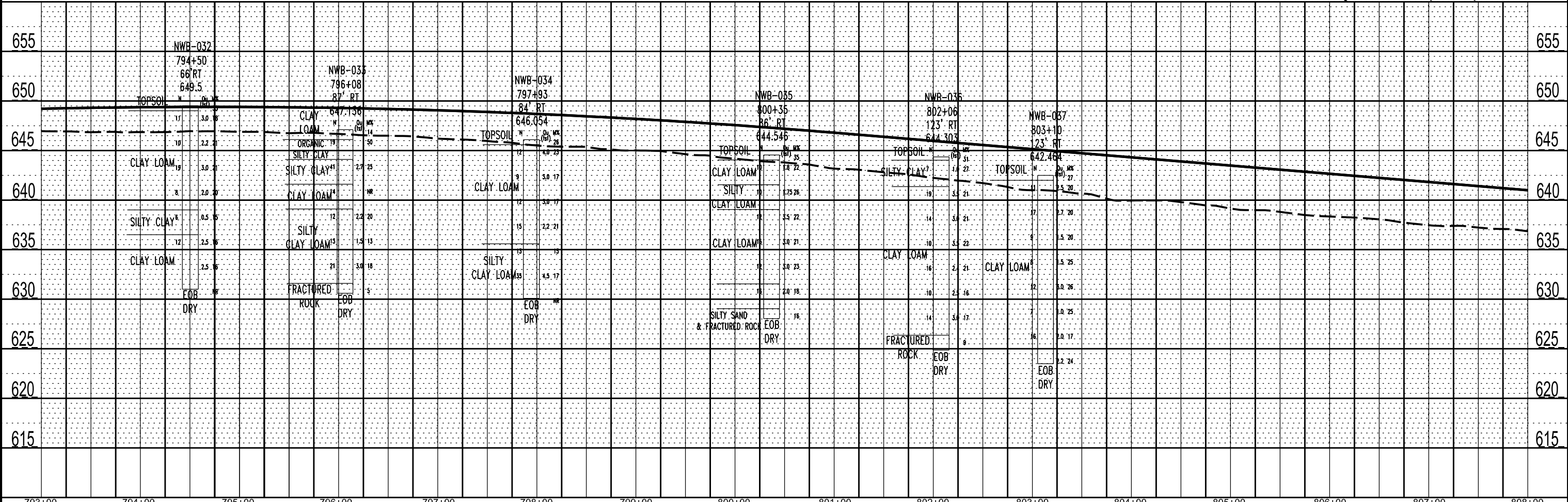
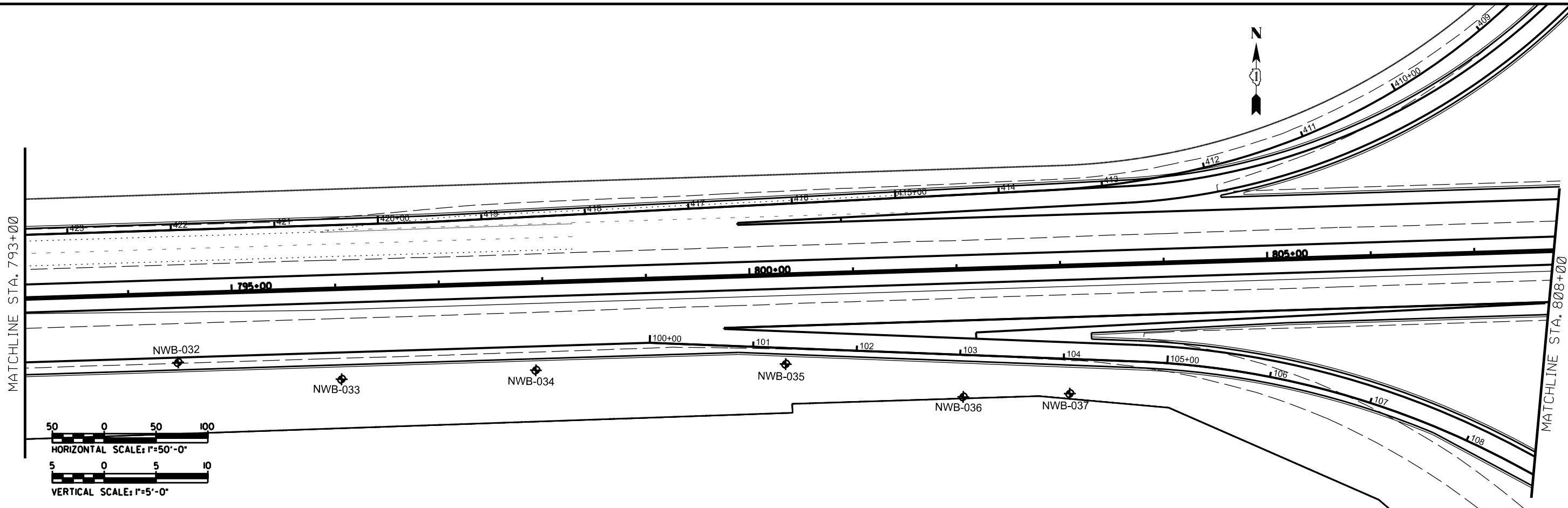
DATE	BY

DATE	BY



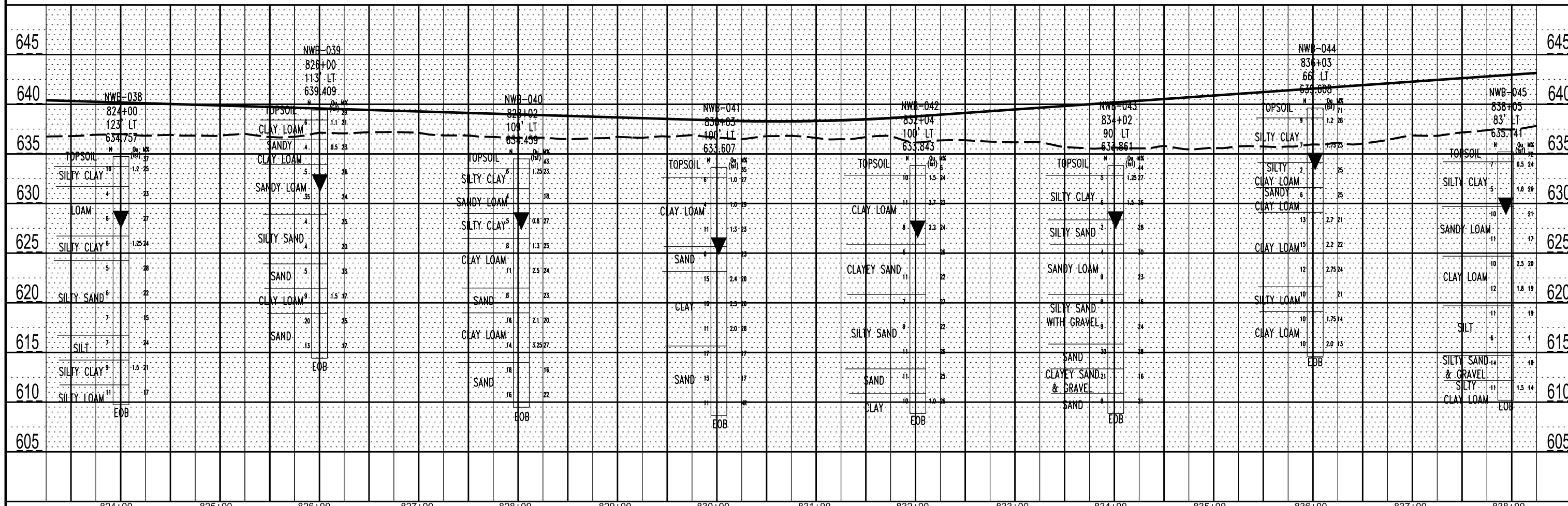
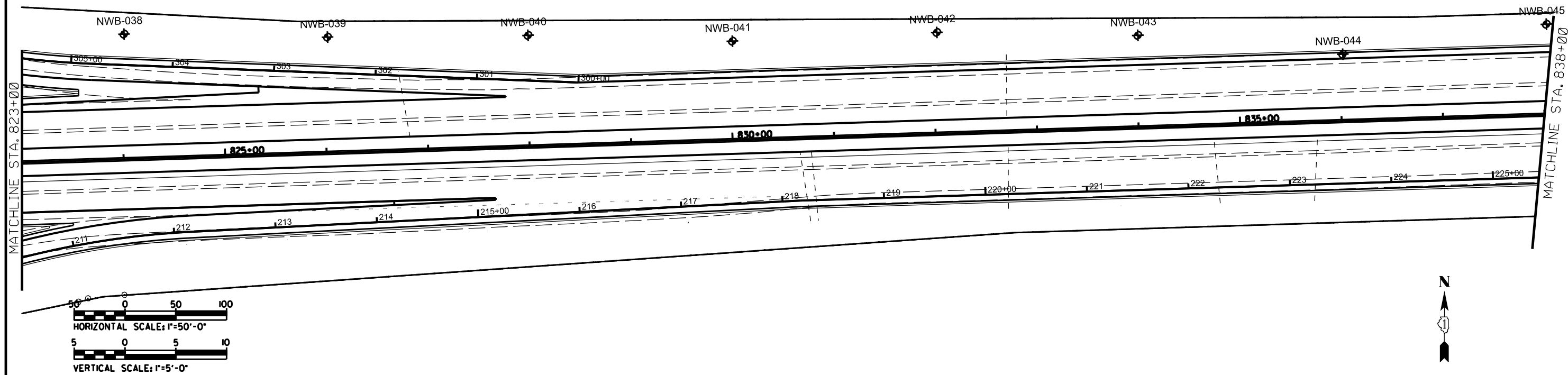
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	PLOTTED		
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	ALIGNED		
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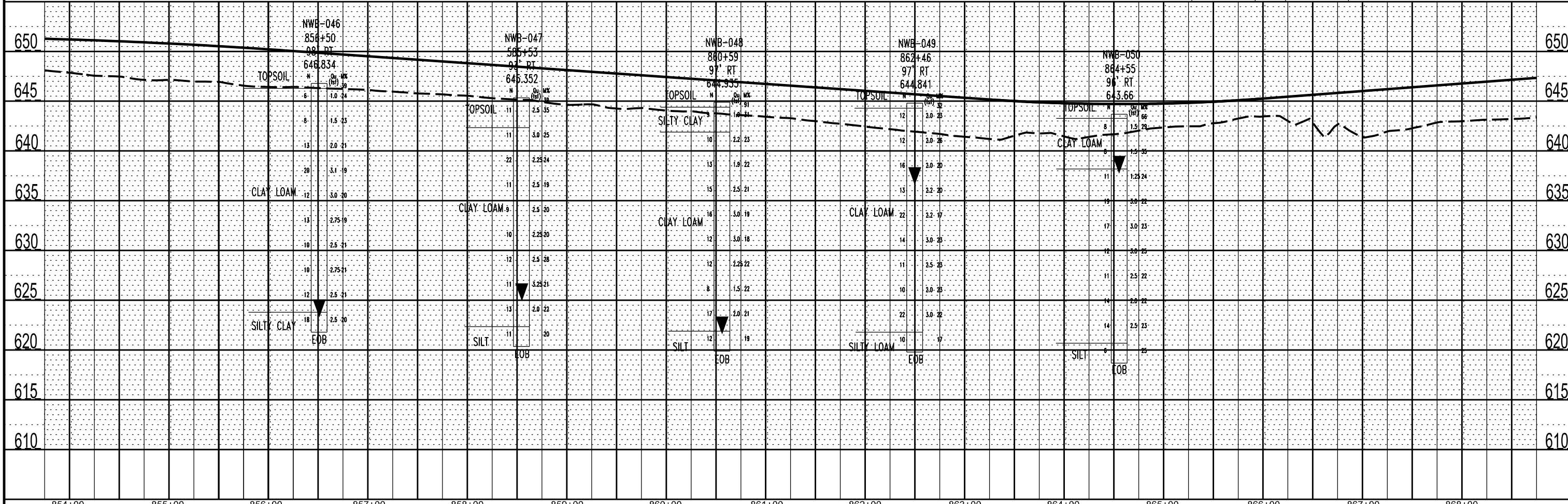
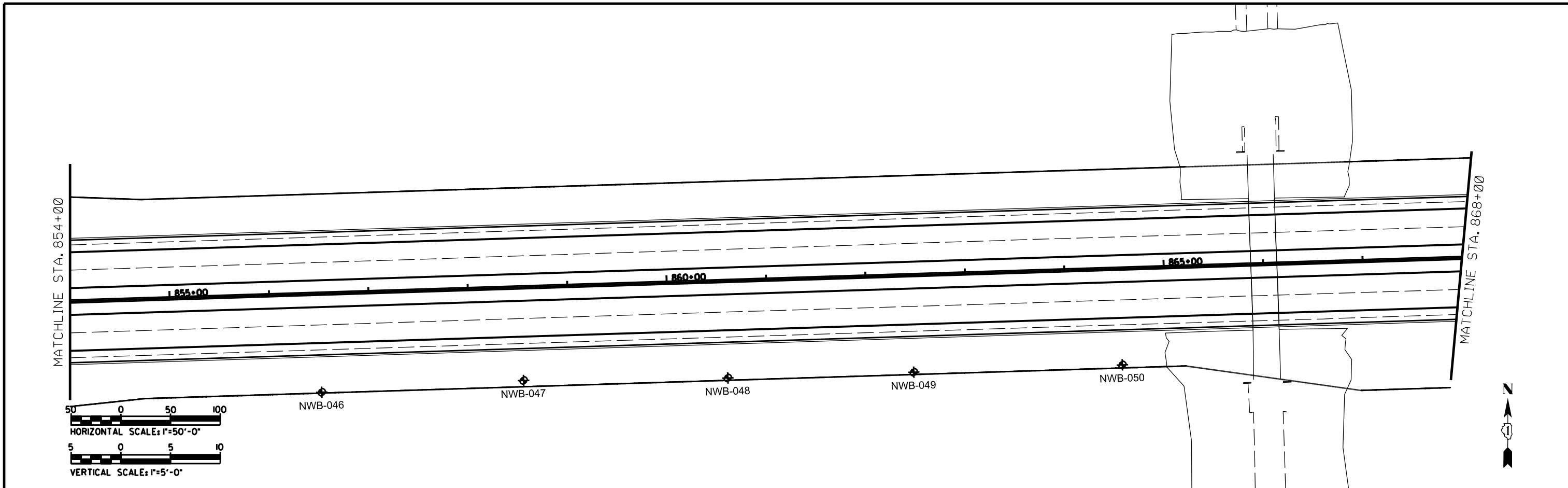
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	NO. 8	
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
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	NOTE BOOK		
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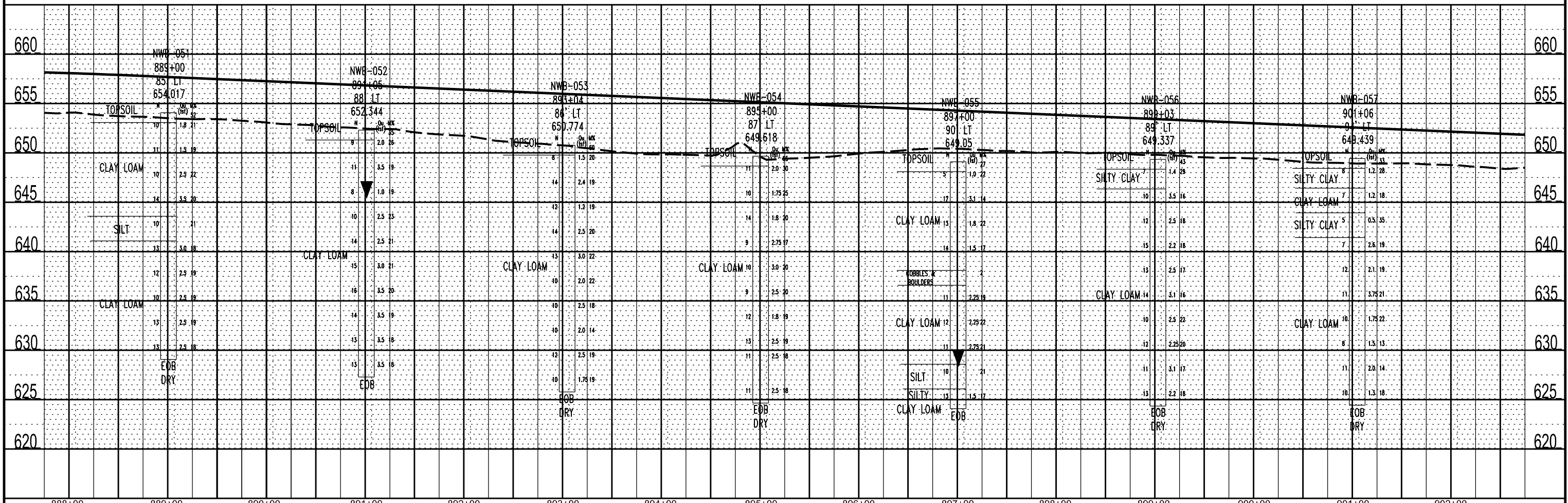
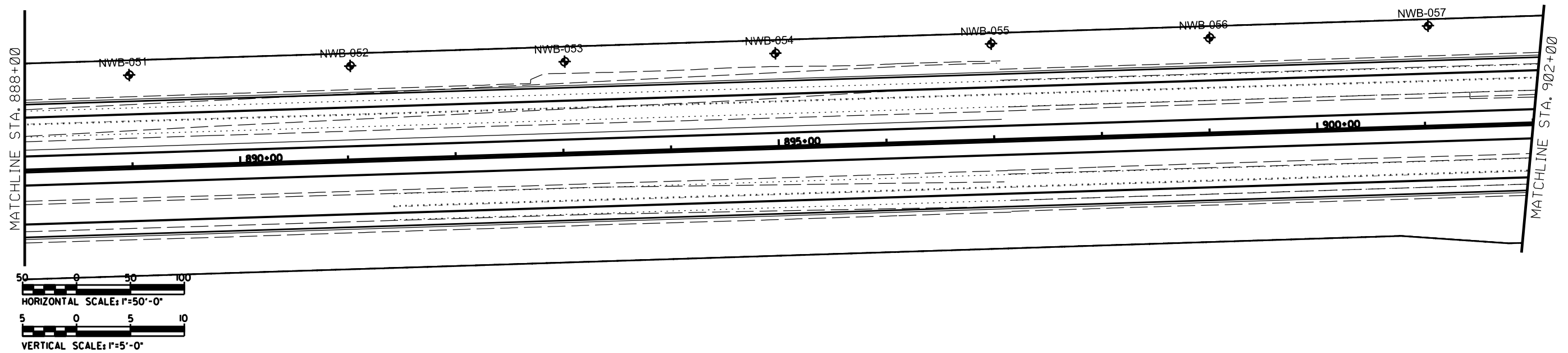
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	NOTE BOOK		
	NO. _____		
	STRUCTURE NOTATIONS CHECKED		
	NO. _____		



 Geotechnical, Environmental, Civil Engineering and Electrical Services An MBE - DBE Firm	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	1-80 FROM RIDGE ROAD TO US ROUTE 30 PREFERRED LONG-TERM IMPROVEMENT PLAN PLAN AND PROFILE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 12/13/2022	CHECKED - AJP	REVISED -			CONTRACT NO.				
						FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
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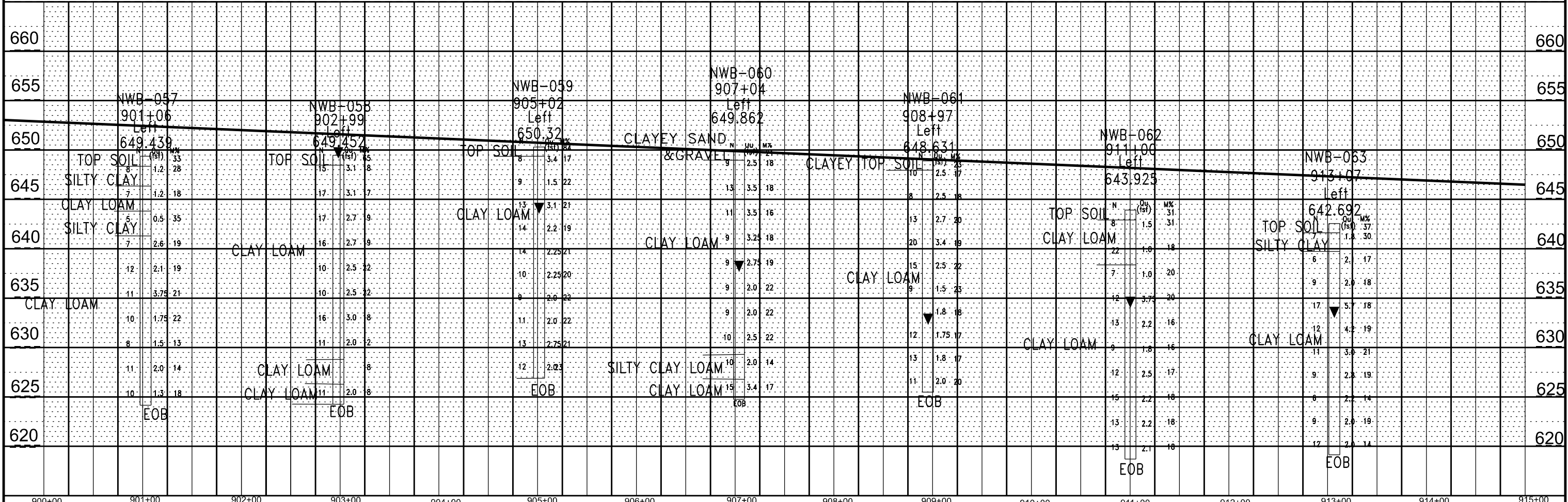
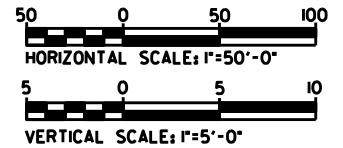
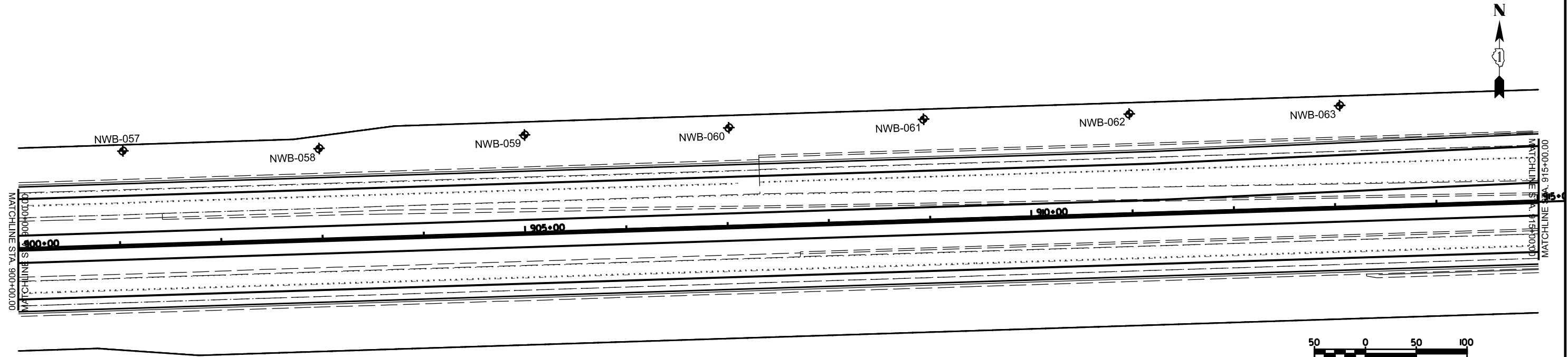


888+00	889+00	890+00	891+00	892+00	893+00	894+00	895+00	896+00	897+00	898+00	899+00	900+00	901+00	902+00	
USER NAME = #USER* DESIGNED - CHECKED - PLOT SCALE = #SCALE# PLOT DATE = 12/13/2022				DESIGNED - REVISIONS - DRAWN - FF CHECKED - AJP				REVISIONS - REVISIONS - REVISIONS - REVISIONS -				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			
1-80 FROM RIDGE ROAD TO US ROUTE 30 PREFERRED LONG-TERM IMPROVEMENT PLAN PLAN AND PROFILE				SCALE:				SHEET 10 OF 14				STA. 888+00 TO STA. 902+00			
F.A. RTE.				SECTION				COUNTY				TOTAL SHEETS 14 SHEET NO. 10			
FED. ROAD DIST. NO.				ILLINOIS				FED. AID PROJECT				CONTRACT NO.			



PLAN	SURVEYED	DATE
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	GRADES CHECKED	
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	STRUCTURE NOTATIONS CHECKED	
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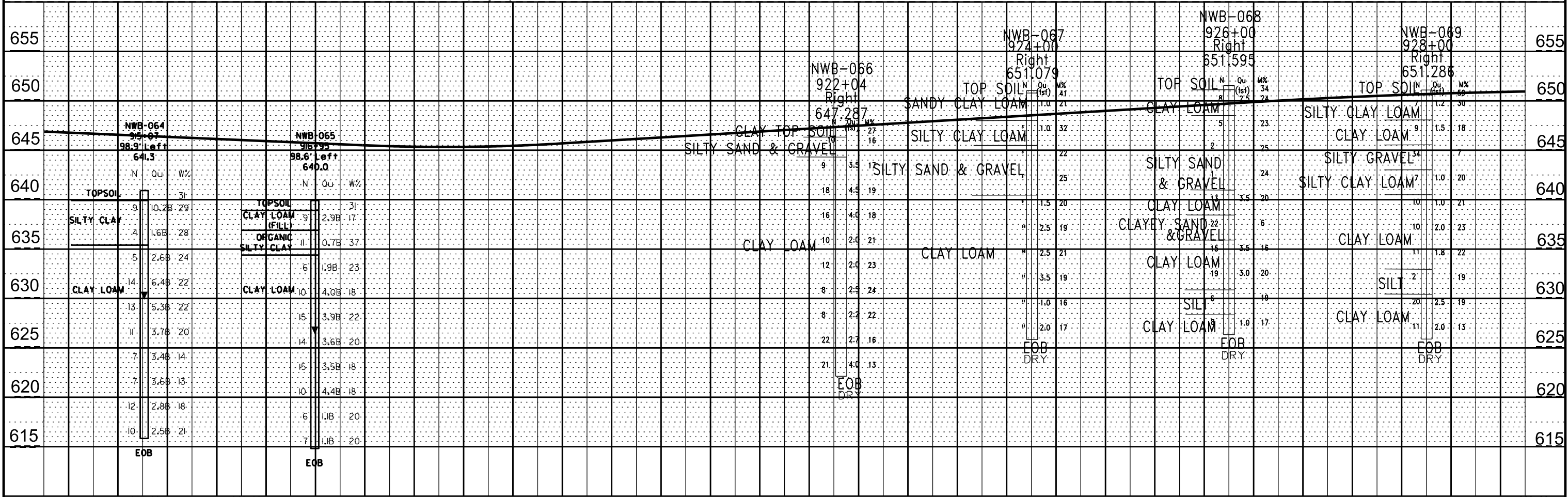
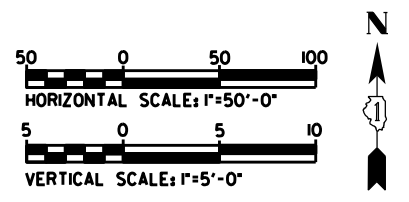
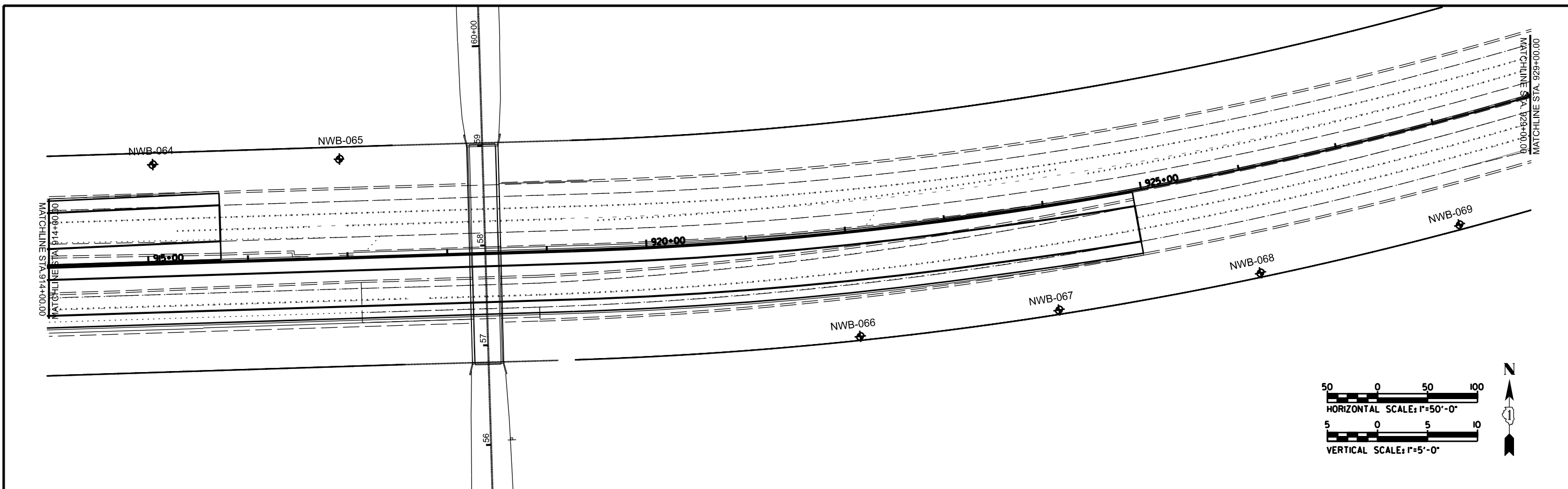
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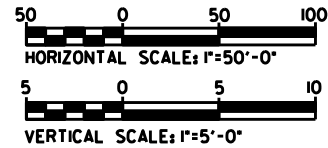
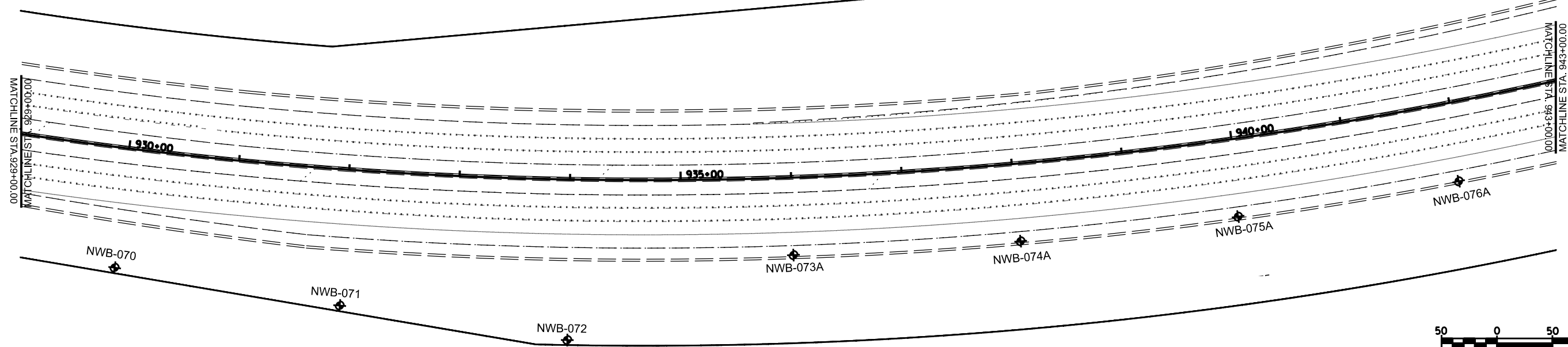
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Geo Services, Inc.	CHECKED -	REVISD -								14	11		
Geotechnical, Environmental and Civil Engineering	DRAWN -	REVISD - FF											
30 ABBE - 200E, FIRM	CHECKED - AJP	REVISD -											
PLOT SCALE = \$SCALE\$									FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN	DATE
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PROFILE	DATE
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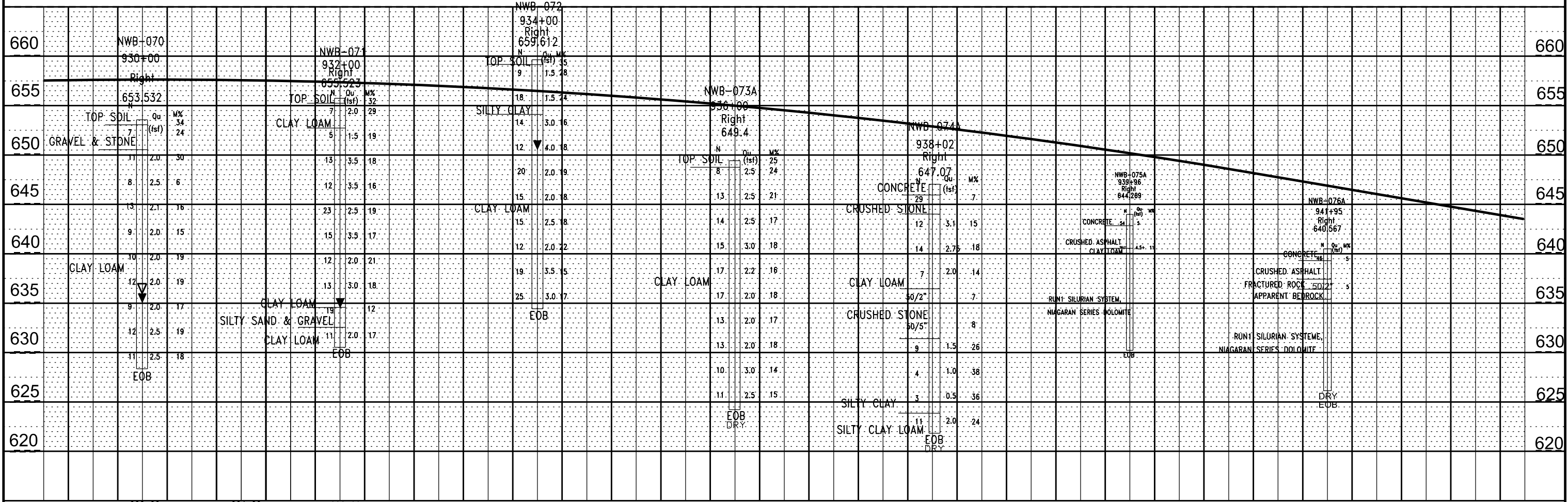


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Geo Services, Inc.	CHECKED -	REVISD -	SCALE:			SHEET 12 OF 14	STA. 914+00 TO STA. 929+00	CONTRACT NO.	14	12	
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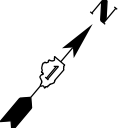
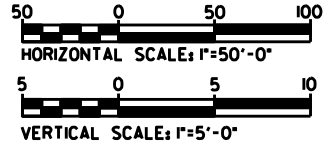
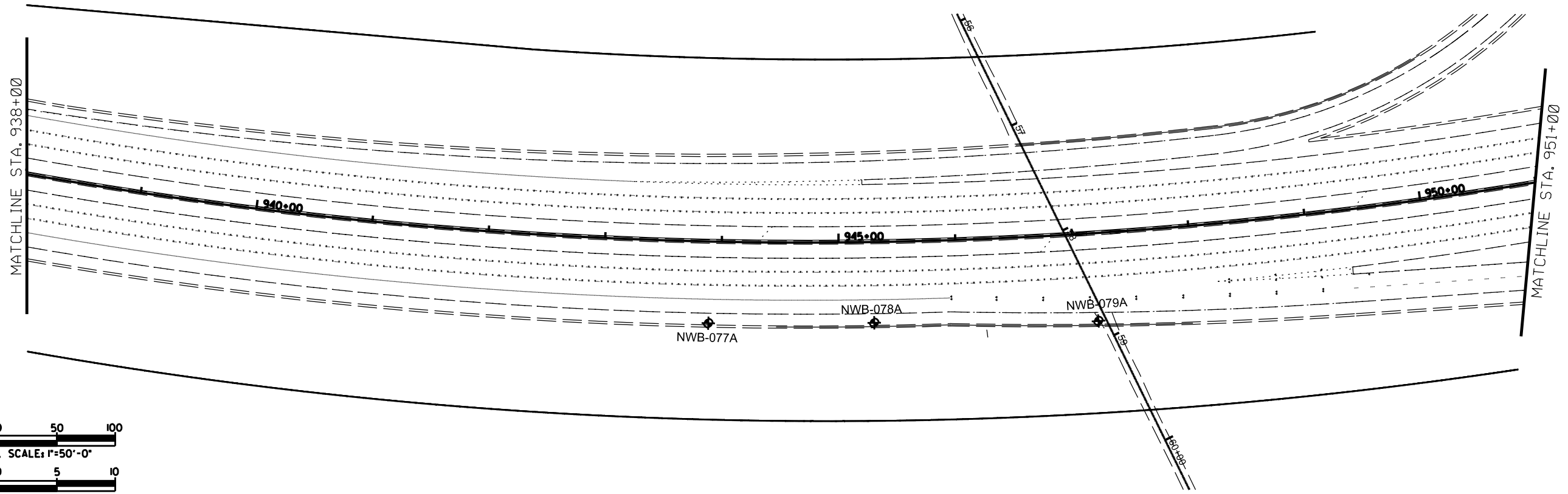
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PROFILE	DATE	BY
DESIGNED		
CHECKED		
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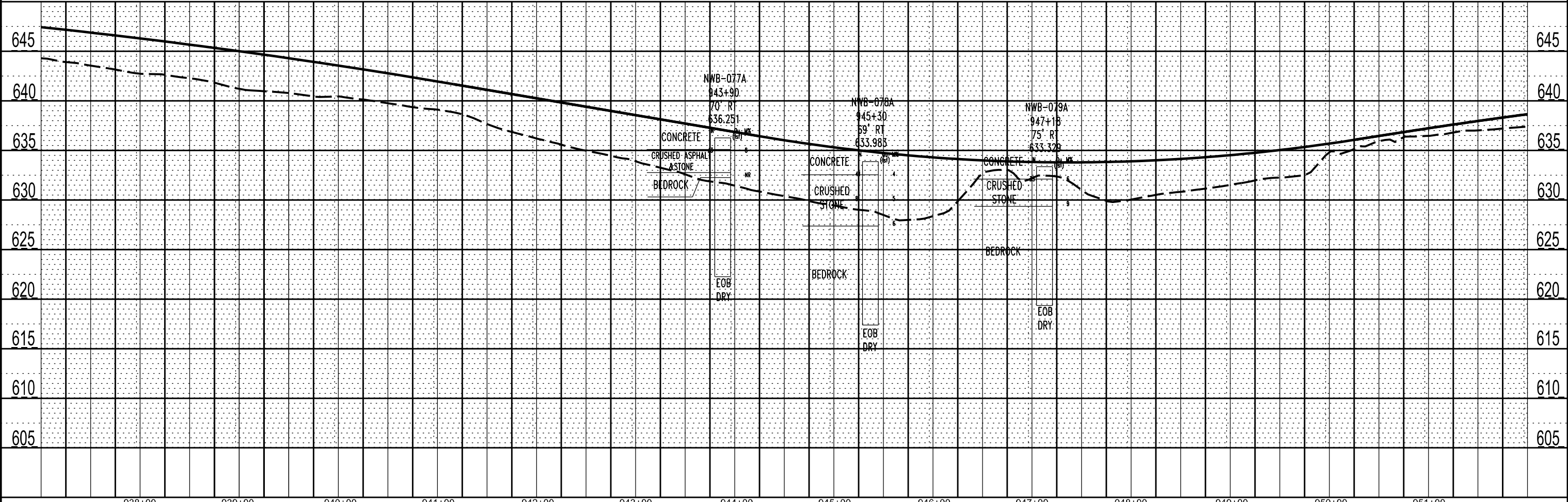


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Geo Services, Inc.		CHECKED - AJP	REVISED -	SCALE: SHEET 13 OF 14 STA.929+00TO STA. 943+00	CONTRACT NO.	ILLINOIS FED. AID PROJECT			
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PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
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	CHECKED		
	AT		
	FILE NAME		



PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS OK'D		
	NO.		



938+00	939+00	940+00	941+00	942+00	943+00	944+00	945+00	946+00	947+00	948+00	949+00	950+00	951+00
USER NAME = *USER*		DESIGNED -	REVISD -										
PLOT SCALE = *SCALE*		CHECKED -	REVISD -										
PLOT DATE = 12/13/2022		DRAWN - FF	REVISD -										
		CHECKED - AJP	REVISD -										



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE
SCALE: SHEET 14 OF 14 STA. 938+00 TO STA. 951+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14	14
CONTRACT NO.				
FED. ROAD DIST. NO., ILLINOIS FED. AID PROJECT				

APPENDIX)

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Geo Services, Inc.

Geotechnical, Environmental & Civil Engineering
 805 Amherst Court, Suite 204
 Naperville, Illinois 60565
 (630) 355-2838
 FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

Page 1 of 1

Date 3/1/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,

Northing 1765542.465, Easting 1055645.475

COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-001
 Station 114+15
 Offset 32.9 ft Right
 Ground Surface Elev. 535.09 ft

DEPTH TWS H S	UCS Qu	M O I S T
(ft)	(/6")	(tsf)
(ft)	(/6")	(%)

Surface Water Elev. n/a ft
 Stream Bed Elev. n/a ft
 Groundwater Elev.:
 First Encounter Dry ft
 Upon Completion n/a ft
 After - Hrs. - ft

CLAYEY TOPSOIL-brown & black	534.09		28
CRUSHED STONE-very dense		6 21 50/4"	4
	532.09		
FRACTURED ROCK-very dense	531.09	50/1"	2
Borehole continued with rock coring.	-5		
	-10		
	-15		
	-20		

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



Geo Services, Inc.

Geotechnical, Environmental & Civil Engineering
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 Naperville, Illinois 60565
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 Chicago Street to US
 Route 30

ROCK CORE LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765542.465, Easting 1055645.475

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft

Station -

BORING NO. NWB-001 Core Diameter 2 in
 Station 114+15 Top of Rock Elev. 531.09 ft
 Offset 32.9 ft Right Begin Core Elev. 531.09 ft
 Ground Surface Elev. 535.09 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
531.09	1	99	51		624.00
-5					
-10					
521.09					
-15					
-20					

RUN 1 (-4.0' to -14.0')
 SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE
 Light gray & porous with horizontal bedding. Some rust staining to -9.2'. Numerous horizontal fractures throughout with large chert nodules.

End Of Boring @ -14.0'. Boring backfilled with cuttings.
 End of Boring

Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



Geo Services, Inc.

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805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

FAI Route 80 from
Chicago Street to US
Route 30

ROCK CORE LOG

Page 1 of 1

Date 3/1/22

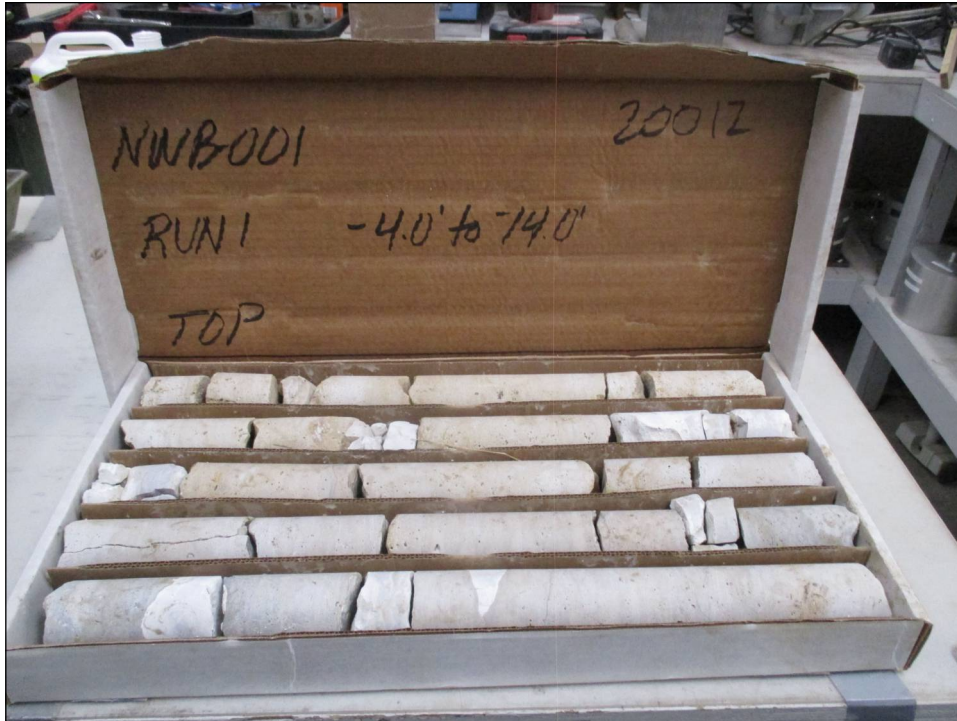
ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765542.465, Easting 1055645.475

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-001 Core Diameter 2 in
Station 114+15 Top of Rock Elev. 531.09 ft
Offset 32.9 ft Right Begin Core Elev. 531.09 ft
Ground Surface Elev. 535.09 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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Chicago Street to US
Route 30

SOIL BORING LOG

Page 1 of 1

Date 3/1/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,

Northing 1765493.879, Easting 1055868.984

COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

D E P T H
B L O W S
U C S
M O I S T
(ft) **(/6")** **(tsf)** **(%)**

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

BORING NO. NWB-002
Station 111+86
Offset 31 ft Right
Ground Surface Elev. 541.64 ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - Hrs. - ft

SANDY TOPSOIL-black	540.64			32
CLAY LOAM-brown spotted black-stiff (Fill)		50/1"	1.25 P	18
	538.64			
CRUSHED STONE-very dense		50/3"		2
		-5		
		5		
		50/2"		25
		21		
		50/1"		12
		-10		
		18		
		50/2"		10
		50/3"		
		-15		7
	525.64			
Auger Refusal @ -16.0'. Possible Bedrock. End Of Boring. Boring backfilled with cuttings.		50/1"		7
		-20		

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



Geo Services, Inc.

Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
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FAI Route 80 from
Chicago Street to US
Route 30

ROCK CORE LOG

Page 1 of 1

Date 2/21/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765421.208, Easting 1056372.897

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-003 Core Diameter 2 in
Station 106+72 Top of Rock Elev. 558.16 ft
Offset 13.7 ft Right Begin Core Elev. 558.16 ft
Ground Surface Elev. 563.66 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



Geo Services, Inc.

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FAI Route 80 from
Chicago Street to US
Route 30

SOIL BORING LOG

ROUTE _____ DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,

Northing 1765421.961, Easting 1056580.857

COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-004
Station 104+64
Offset 19 ft Right
Ground Surface Elev. 564.82 ft

DEPTH (ft)	BLOGS (1/6")	UCS (tsf)	MOS (%)
40			
563.32	2		
	6	1.00	25
	5	P	
560.82	26		
559.82	50/1"		7
	-5		
558.82			
-10			
-15			
-20			

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion n/a ft
After - Hrs. - ft

TOPSOIL-black
563.32

SILTY CLAY-dark brown & black-stiff (Fill)
560.82

FRACTURED ROCK-very dense
559.82 -5

Drillers Observation: Apparent Bedrock
558.82

Borehole continued with rock coring.
-10
-15
-20

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
Chicago Street to US
Route 30

ROCK CORE LOG

ROUTE Route 30 **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 15 **LOCATION** SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765421.961, Easting 1056580.857

COUNTY Will **CORING METHOD** Rotary Wash

STRUCT. NO. <u>-</u>	CORING BARREL TYPE & SIZE <u>NX Double Swivel-10 ft</u>	D E P T H (ft)	C O R E (#)	R E C O V E R Y (%)	R . Q . D . (%)	C O R E T I M E (min/ft)	S T R E N G T H (tsf)
Station <u>-</u>	Core Diameter <u>2</u> in						
BORING NO. <u>NWB-004</u>	Top of Rock Elev. <u>559.82</u> ft						
Station <u>104+64</u>	Begin Core Elev. <u>558.82</u> ft						
Offset <u>19 ft Right</u>							
Ground Surface Elev. <u>564.82</u> ft							

<p>RUN 1 (-6.0' to -16.0')</p> <p>SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE</p> <p>Light gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout.</p> <p style="text-align: right;">558.82</p>	1	97	47		523.00
<p>End Of Boring @ -16.0'. Boring backfilled with cuttings.</p> <p>End of Boring</p> <p style="text-align: right;">548.82</p>					

Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765421.961, Easting 1056580.857

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-004 Core Diameter 2 in
Station 104+64 Top of Rock Elev. 559.82 ft
Offset 19 ft Right Begin Core Elev. 558.82 ft
Ground Surface Elev. 564.82 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,

Northing 1765425.304, Easting 1056771.242

COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-005
 Station 102+74
 Offset 26.5 ft Right
 Ground Surface Elev. 565.72 ft

DEPTH (ft)	B L O W S (/6")	U C S (tsf)	M O I S T (%)
---------------	--------------------------------	--------------------------	----------------------------------

Surface Water Elev. n/a ft
 Stream Bed Elev. n/a ft
 Groundwater Elev.:
 First Encounter Dry ft
 Upon Completion n/a ft
 After - Hrs. - ft

TOPSOIL-black				33
564.22	3			
SILTY CLAY-dark brown spotted black-stiff (Fill)	4 3	1.75 P	19	
561.22	2 2		27	
FRACTURED ROCK-very dense	-5	50/4"		
559.72				
Borehole continued with rock coring.				
-10				
-15				
-20				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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ROCK CORE LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM, Northing 1765425.304, Easting 1056771.242

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
 Station -

BORING NO. NWB-005
 Station 102+74
 Offset 26.5 ft Right
 Ground Surface Elev. 565.72 ft

Core Diameter 2 in
 Top of Rock Elev. 559.72 ft
 Begin Core Elev. 559.72 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R . Q . D . (%)	CORE TIME (min/ft)	STRENGTH (tsf)
559.72	1	96	44		608.00
549.72					

RUN 1 (-6.0' to -16.0')
 SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE
 Light gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout. Some rust staining to -12.0'.

End Of Boring @ -16.0'. Boring backfilled with cuttings.
 End of Boring

Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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ROCK CORE LOG

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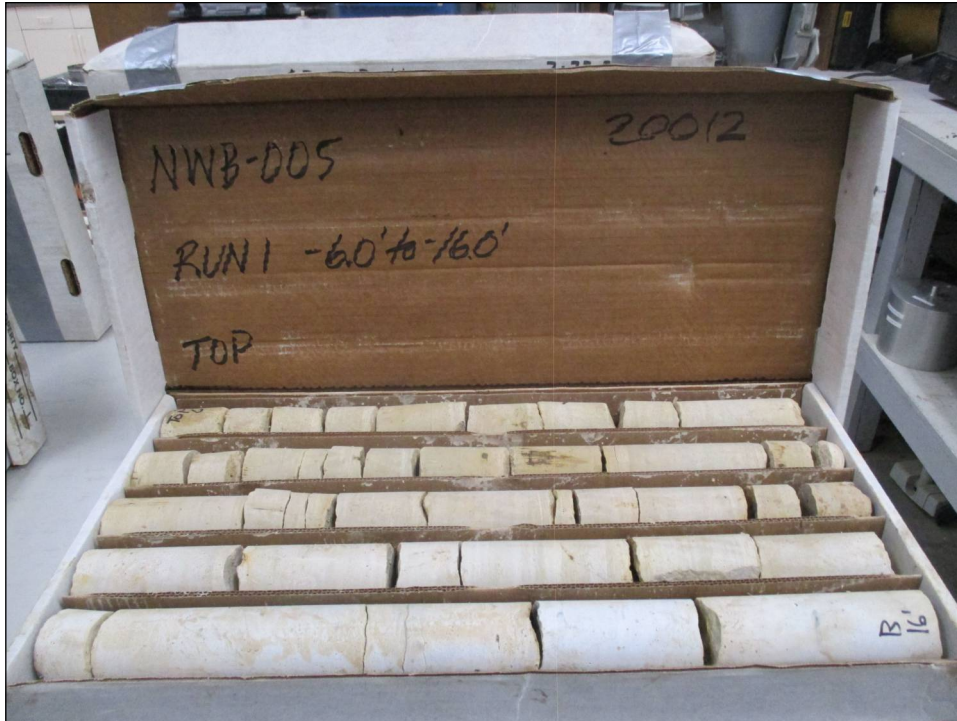
ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765425.304, Easting 1056771.242

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-005 Core Diameter 2 in
Station 102+74 Top of Rock Elev. 559.72 ft
Offset 26.5 ft Right Begin Core Elev. 559.72 ft
Ground Surface Elev. 565.72 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765432.783, Easting 1056946.97

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-006 Core Diameter 2 in
Station 100+98 Top of Rock Elev. 557.38 ft
Offset 37.9 ft Right Begin Core Elev. 557.38 ft
Ground Surface Elev. 566.38 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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SOIL BORING LOG

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ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765435.955, Easting 1057100.937

COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D E P T H H S	B L O W S	U C S Qu	M O I S T T	Surface Water Elev. <u>n/a</u> ft
Station <u>-</u>					Stream Bed Elev. <u>n/a</u> ft
BORING NO. <u>NWB-007</u>	ft (ft)	(6")	(tsf)	%	Groundwater Elev.:
Station <u>746+17</u>					First Encounter <u>Dry</u> ft
Offset <u>91.9 ft Left</u>					Upon Completion <u>n/a</u> ft
Ground Surface Elev. <u>569.42</u>					After <u>-</u> Hrs. <u>-</u> ft

Soil Description	Depth (ft)	Blow Count (6")	UCS (tsf)	Moisture (%)
TOPSOIL-black	0 - 3			25
567.92	3			
SILTY CLAY-dark brown-very stiff (Fill)	3 - 6	4	2.50 P	21
566.42	6			
SAND & GRAVEL-brown-medium dense to dense	6 - 7			6
	7 - 10			
	10 - 14			
	14 - 17			5
	17 - 2			
	2 - 4			6
	4 - 10			
558.42	10			
Borehole continued with rock coring.	10 - 15			
	15 - 20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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ROCK CORE LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765435.955, Easting 1057100.937

COUNTY <u>Will</u>	CORING METHOD <u>Rotary Wash</u>	NX Double Swivel-10 ft	D E P T H (ft)	C O R E (#)	R E C O V E R Y (%)	R . Q . D . (%)	C O R E T I M E (min/ft)	S T R E N G T H (tsf)
STRUCT. NO. <u>-</u>	CORING BARREL TYPE & SIZE							
Station <u>-</u>	Core Diameter <u>2 in</u>							
BORING NO. <u>NWB-007</u>	Top of Rock Elev. <u>558.42 ft</u>							
Station <u>746+17</u>	Begin Core Elev. <u>558.42 ft</u>							
Offset <u>91.9 ft Left</u>								
Ground Surface Elev. <u>569.42 ft</u>								

RUN 1 (-11.0' to -21.0')	558.42	1	99	73		501.00
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE						
Light gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout. Some rust staining.						
	-15					
	-20					
	548.42					

End Of Boring @ -21.0'. Boring backfilled with cuttings.						
End of Boring						
	-25					
	-30					

Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765435.955, Easting 1057100.937

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-007 Core Diameter 2 in
Station 746+17 Top of Rock Elev. 558.42 ft
Begin Core Elev. 558.42 ft

Offset 91.9 ft Left
Ground Surface Elev. 569.42 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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SOIL BORING LOG

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ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765441.336, Easting 1057390.7

COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	DEPTH STATION	BLOW COUNTS	UCS Qu	MOIST T	Surface Water Elev. <u>n/a</u> ft		
Station <u>-</u>					Stream Bed Elev. <u>n/a</u> ft		
BORING NO. <u>NWB-008</u>					Groundwater Elev.: First Encounter <u>Dry</u> ft		
Station <u>749+07</u>	Offset <u>88.1 ft Left</u>	Ground Surface Elev. <u>571.56</u> ft	(ft)	(/6")	(tsf)	(%)	Upon Completion <u>n/a</u> ft
							After <u>-</u> Hrs. <u>-</u> ft

TOPSOIL with Stone-black-medium dense (Fill)	568.56	3 4 6			31 24
SAND, GRAVEL & STONE-brown-medium dense (Fill)	566.06	6 7 9			4
SILTY CLAY LOAM-brown-very stiff (Fill)	563.56	6 8 9	2.75 P		12
SILTY CLAY with Stone-dark brown & black (Fill)	562.56		50/5"		
Drillers Observation: Apparent Bedrock	562.06				13
Borehole continued with rock coring.		-10 -15 -20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765441.336, Easting 1057390.7

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-008 Core Diameter 2 in
Station 749+07 Top of Rock Elev. 562.56 ft
Offset 88.1 ft Left Begin Core Elev. 562.06 ft
Ground Surface Elev. 571.56 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
562.06	-10	1	84	60	629.00
552.06					
-15					
-20					
-25					

RUN 1 (-9.5' to -19.5')
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE
Light gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout. Some rust staining.

End Of Boring @ -19.5'. Boring backfilled with cuttings.
End of Boring

Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765441.336, Easting 1057390.7

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-008 Core Diameter 2 in
Station 749+07 Top of Rock Elev. 562.56 ft
Offset 88.1 ft Left Begin Core Elev. 562.06 ft
Ground Surface Elev. 571.56 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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ROCK CORE LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1057583.5, Easting 1765457

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. <u>-</u>		CORING BARREL TYPE & SIZE	D E P T H (ft)	C O R E (#)	R E C O V E R Y (%)	R · Q · D ·	C O R E T I M E (min/ft)	S T R E N G T H (tsf)
Station <u>-</u>								
BORING NO. <u>NWB-009</u>		NX Double Swivel-10 ft	Core Diameter <u>2</u> in					
Station <u>751+00</u>			Top of Rock Elev. <u>569.90</u> ft					
Offset <u>97.7 ft Left</u>			Begin Core Elev. <u>569.90</u> ft					
Ground Surface Elev. <u>577.90</u> ft								

RUN 1 (-8.0' to -18.0') SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout.			569.90	1	93	68		616.00
			-10					
			-15					
			559.90					
End Of Boring @ -18.0'. Boring backfilled with cuttings.								
End of Boring			-20					
			-25					

Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1057583.5, Easting 1765457

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-009 Core Diameter 2 in
Station 751+00 Top of Rock Elev. 569.90 ft
Begin Core Elev. 569.90 ft

Offset 97.7 ft Left
Ground Surface Elev. 577.90 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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SOIL BORING LOG

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ROUTE _____ **DESCRIPTION** I-80 Phase II **LOGGED BY** DJ

SECTION 15 **LOCATION** SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,

Northing 1765483.551, Easting 1057790.284

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

D E P T H
B L O W S
U C S
M O I S T

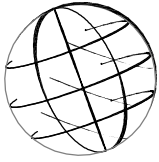
Surface Water Elev. n/a **ft**
Stream Bed Elev. n/a **ft**
Groundwater Elev.:
First Encounter Dry **ft**
Upon Completion n/a **ft**
After - **Hrs.** - **ft**

BORING NO. NWB-010
Station 753+08
Offset 117.7 ft Left
Ground Surface Elev. 571.58 **ft**

Depth (ft)	Description	Blows (/6")	UCS (tsf)	Moist (%)
	TOPSOIL-black			22
570.08		3		
	SILTY CLAY-dark brown & black-stiff (Fill)	4 3	1.00 P	24
		4		
		9 15		5
565.58				
	FRACTURED ROCK-very dense	50/1"		
564.58				10
	Borehole continued with rock coring.			
-10				
-15				
-20				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
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ROCK CORE LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765483.551, Easting 1057790.284

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft

Station -

BORING NO. NWB-010 Core Diameter 2 in

Station 753+08 Top of Rock Elev. 564.58 ft

Offset 117.7 ft Left Begin Core Elev. 564.58 ft

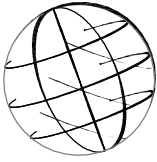
Ground Surface Elev. 571.58 ft

			DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-7.0' to -17.0') SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout. Some rust staining to -11.7'. 1/4" clay parting @ -8.8'.			564.58	1	98	62		427.00
End Of Boring @ -17.0'. Boring backfilled with cuttings. End of Boring			554.58					

Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765483.551, Easting 1057790.284

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-010 Core Diameter 2 in
Station 753+08 Top of Rock Elev. 564.58 ft
Offset 117.7 ft Left Begin Core Elev. 564.58 ft
Ground Surface Elev. 571.58 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



SOIL BORING LOG

FAI Route 80 from
Chicago Street to US
Route 30

DESCRIPTION I-80 Phase II

LOGGED BY

SECTION - LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM

COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. -	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. n/a ft
Station -					Stream Bed Elev. n/a ft
BORING NO. NWB-011	(ft)	(1/6")	(tsf)	(%)	Groundwater Elev.:
Station 755+03					First Encounter Dry ft
Offset 129.80ft Left					Upon Completion n/a ft
Ground Surface Elev. 568.21 ft					After - Hrs. - ft

DESCRIPTION	DEPTH (ft)	BLOW COUNT	UCS	MOISTURE
ASPHALT/GRAVEL 567.21				
SILTY CLAY with Gravel-brown & gray-stiff (CL)	4			
	6	2.00	38	
	7	P		
SANDY CLAY LOAM-brown & gray-Medium Dense 564.71	6			
	10		13	
	-5 8			
CLAYEY SAND & GRAVEL -brown & gray-Medium Dense 562.21	6			
	7		13	
	9			
CRUSHED STONE with Sand -gray-Medium Dense 559.71	6			
	15		11	
	-10 10			
LIMESTONE with Sand -gray-Dense 557.21	20			
	20		5	
	23			
End Of Boring @ -15.0'. Boring backfilled with cuttings. 553.21 -15				

Z:\PROJECTS\2020\20012 EXP. I-80 FROM CHICAGO ST. TO RT 30, PTB 194-9\20012 BORING LOGS\20012 LOG.GPJ 3/9/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
 BBS, from 137 (Rev. 8-99)



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FAI Route 80 from
 Chicago Street to US
 Route 30

ROCK CORE LOG

Date 3/4/22

ROUTE DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 15 LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,

 Northing 1764691.5, Easting 1055609.2

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
 Station -

BORING NO. NWB-012 Core Diameter 2 in
 Station 53+16 Top of Rock Elev. 553.00 ft
 Offset 42 ft Right Begin Core Elev. 551.50 ft
 Ground Surface Elev. 556.00 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
551.50	-5	1	100	82	655.00
541.50	-15				
	-20				

RUN 1 (-4.5' to -14.5')
 SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE
 Light gray & fine grained with horizontal bedding. Some horizontal fractures throughout.

End Of Boring @ -16.0'. Boring backfilled with cuttings.
 End of Boring

Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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Route 30

ROCK CORE LOG

Page 1 of 1

Date 3/4/22

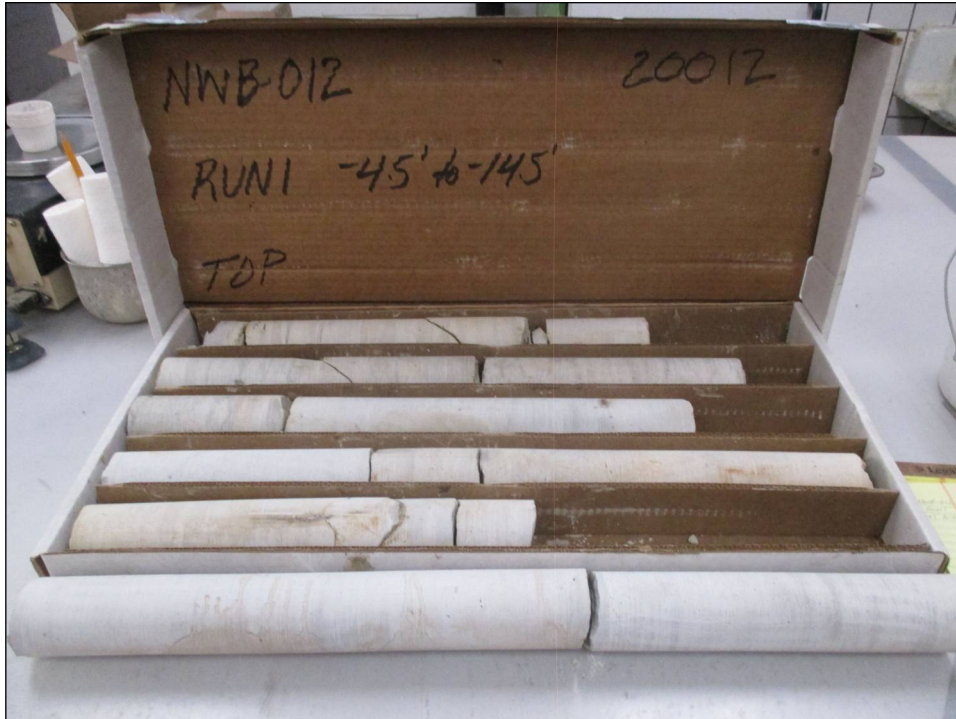
ROUTE Chicago Street to US Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 15 LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1764691.5, Easting 1055609.2

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-012 Core Diameter 2 in
Station 53+16 Top of Rock Elev. 553.00 ft
Offset 42 ft Right Begin Core Elev. 551.50 ft
Ground Surface Elev. 556.00 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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FAI Route 80 from
Chicago Street to US
Route 30

ROCK CORE LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 15 LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,

Northing 1764890.1, Easting 1055651.9

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO.	CORING BARREL TYPE & SIZE	NX Double Swivel-10 ft	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
<u>-</u>	<u>-</u>	<u>-</u>						
<u>BORING NO. NWB-013</u>	<u>Core Diameter 2 in</u>							
<u>Station 11+00</u>	<u>Top of Rock Elev. 544.00 ft</u>							
<u>Offset 2 ft Right</u>	<u>Begin Core Elev. 543.00 ft</u>							
<u>Ground Surface Elev. 549.00 ft</u>								

RUN 1 (-6.0' to -16.0')		543.00		1	99	91		691.00
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE								
Light gray & fine grained with horizontal bedding. Some horizontal fractures throughout.								
			-10					
			-15					
		533.00						

End Of Boring @ -16.0'. Boring backfilled with cuttings.								
End of Boring								
			-20					
			-25					



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FAI Route 80 from
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ROCK CORE LOG

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Date 3/4/22

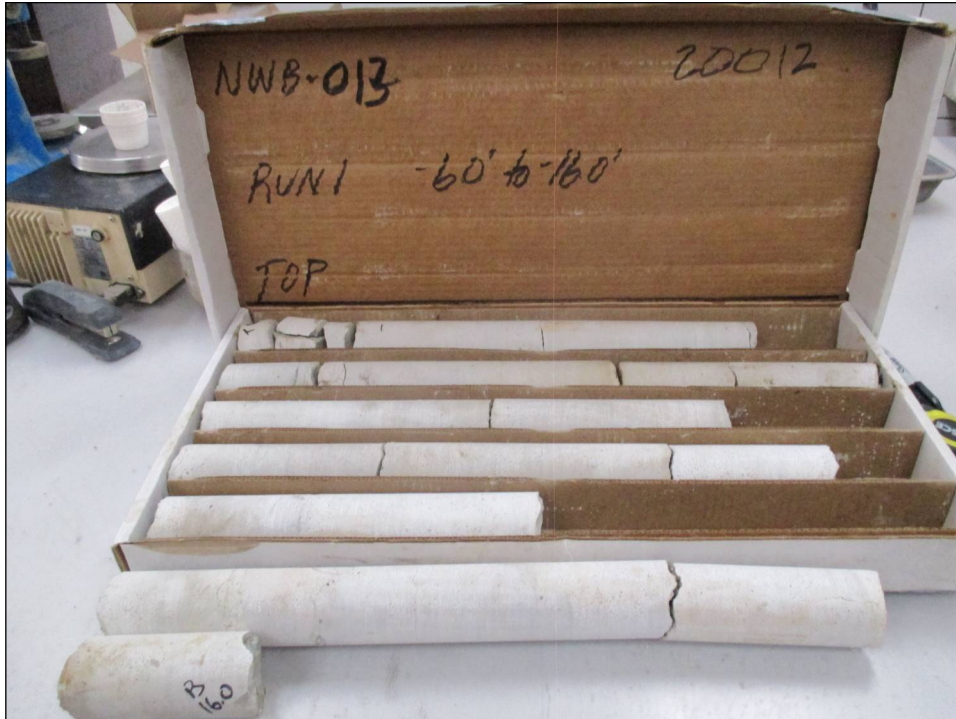
ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 15 LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1764890.1, Easting 1055651.9

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-013 Core Diameter 2 in
Station 11+00 Top of Rock Elev. 544.00 ft
Offset 2 ft Right Begin Core Elev. 543.00 ft
Ground Surface Elev. 549.00 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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FAI Route 80 from
Chicago Street to US
Route 30

ROCK CORE LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 15 LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,

Northing 1764993.7, Easting 1055822.9

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. <u>-</u>	CORING BARREL TYPE & SIZE <u>NX Double Swivel-10 ft</u>	D E P T H (ft)	C O R E (#)	R E C O V E R Y (%)	R · Q · D · (%)	C O R E T I M E (min/ft)	S T R E N G T H (tsf)
Station <u>-</u>	Core Diameter <u>2</u> in						
BORING NO. <u>NWB-014</u>	Top of Rock Elev. <u>546.70</u> ft						
Station <u>12+99</u>	Begin Core Elev. <u>546.70</u> ft						
Offset <u>11.7 ft Left</u>							
Ground Surface Elev. <u>553.70</u> ft							

<p>RUN 1 (-7.0' to -17.0')</p> <p>SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE</p> <p>Light gray & fine grained with horizontal bedding. Some horizontal fractures throughout.</p>	546.70	1	97	80		652.00
End Of Boring @ -17.0'. Boring backfilled with cuttings.	536.70					
End of Boring						

Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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FAI Route 80 from
Chicago Street to US
Route 30

ROCK CORE LOG

Page 1 of 1

Date 3/8/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 15 LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1764993.7, Easting 1055822.9

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-014 Core Diameter 2 in
Station 12+99 Top of Rock Elev. 546.70 ft
Offset 11.7 ft Left Begin Core Elev. 546.70 ft
Ground Surface Elev. 553.70 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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 Route 30

SOIL BORING LOG

Page 1 of 1

Date 3/8/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765109.6, Easting 1055986.5

COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. <u>n/a</u> ft
Station <u>-</u>	(ft)	(/6")	(tsf)	(%)	Stream Bed Elev. <u>n/a</u> ft
BORING NO. <u>NWB-015</u>			Qu		Groundwater Elev.:
Station <u>15+00</u>					First Encounter <u>Dry</u> ft
Offset <u>11.2 ft Right</u>					Upon Completion <u>n/a</u> ft
Ground Surface Elev. <u>555.70</u> ft					After <u>-</u> Hrs. <u>-</u> ft

16.0" ASPHALT					
	554.37	35			
CRUSHED ASPHALT-very dense		50/4"		3	
	552.70				
Drillers Observation: Apparent Bedrock	551.70	50/0"		NR	
Borehole continued with rock coring.	-5				
	-10				
	-15				
	-20				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
 Chicago Street to US
 Route 30

ROCK CORE LOG

Date 3/8/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765109.6, Easting 1055986.5

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
 Station -

BORING NO. NWB-015 Core Diameter 2 in
 Station 15+00 Top of Rock Elev. 552.70 ft
 Offset 11.2 ft Right Begin Core Elev. 551.70 ft
 Ground Surface Elev. 555.70 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
551.70	1	99	89		552.00
-5					
-10					
541.70					
-15					
-20					

RUN 1 (-4.0' to -14.0')
 SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE
 Light gray & fine grained with horizontal bedding. Some horizontal fractures & rust staining throughout.

End Of Boring @ -14.0'. Boring backfilled with cuttings.
 End of Boring

Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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FAI Route 80 from
Chicago Street to US
Route 30

ROCK CORE LOG

Page 1 of 1

Date 3/8/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765109.6, Easting 1055986.5

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

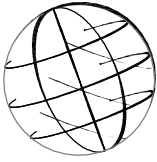
BORING NO. NWB-015 Core Diameter 2 in
Station 15+00 Top of Rock Elev. 552.70 ft
Offset 11.2 ft Right Begin Core Elev. 551.70 ft
Ground Surface Elev. 555.70 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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FAI Route 80 from
Chicago Street to US
Route 30

ROCK CORE LOG

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Date 3/15/22

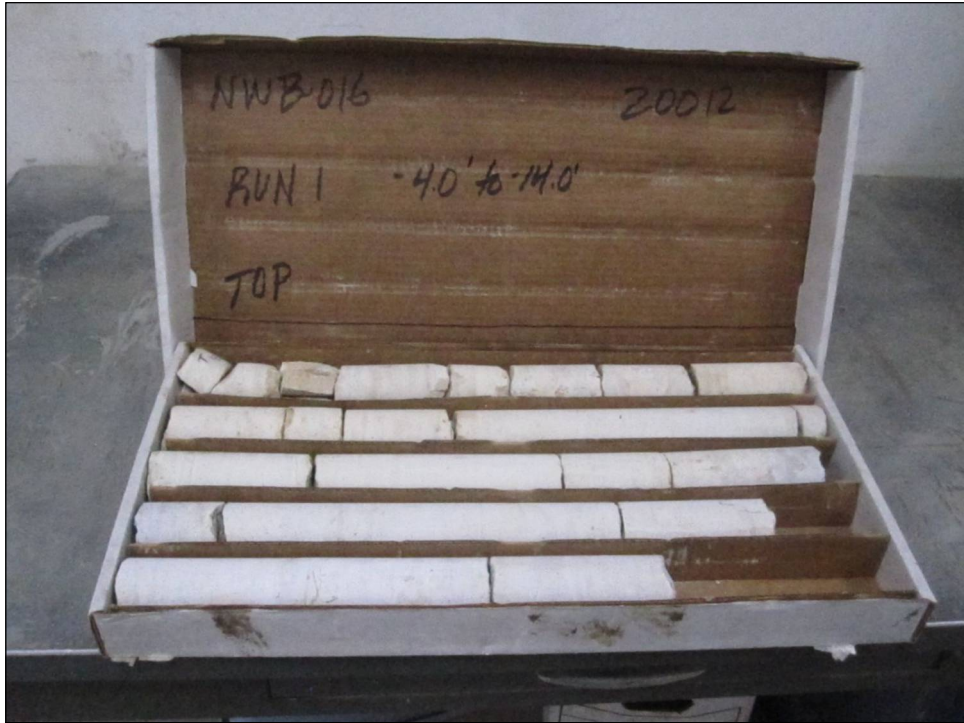
ROUTE Chicago Street to US Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM, Northing 1765208, Easting 1056158.5

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

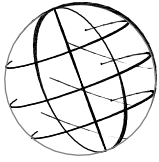
BORING NO. NWB-016 Core Diameter 2 in
Station 17+00 Top of Rock Elev. 555.10 ft
Offset 2.1 ft Left Begin Core Elev. 554.60 ft
Ground Surface Elev. 558.60 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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 FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

ROUTE DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,

Northing 1765240.1, Easting 1056356.1

COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u> Station <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft
	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft
	P	O	S	I	
	T	W	Qu	S	Groundwater Elev.:
BORING NO. <u>NWB-017</u>	H	S		T	First Encounter <u>Dry</u> ft
Station <u>19+00</u>					Upon Completion <u>n/a</u> ft
Offset <u>4.5 ft Left</u>					After <u>-</u> Hrs. <u>-</u> ft
Ground Surface Elev. <u>560.80</u> ft	(ft)	(/6")	(tsf)	(%)	

11.0" ASPHALT <div style="text-align: right;">559.88</div>					
CRUSHED ASPHALT-medium dense <div style="text-align: right;">557.80</div>	25	12	9	4	
Drillers Observation: Apparent Bedrock Borehole continued with rock coring. <div style="text-align: right;">557.30</div>					
-5					
-10					
-15					
-20					

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
Chicago Street to US
Route 30

ROCK CORE LOG

Page 1 of 1

Date 3/15/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 15 LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM,
Northing 1765240.1, Easting 1056356.1

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-017 Core Diameter 2 in
Station 19+00 Top of Rock Elev. 557.30 ft
Offset 4.5 ft Left Begin Core Elev. 557.30 ft

Ground Surface Elev. 560.80 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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 FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY MB

SECTION 14 LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765217.686, Easting 1059094.5

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-018A</u>	P	O	S	I	Groundwater Elev.: <u>-</u>	T	W	S	S
Station <u>766+22</u>	T	S	Qu	T	First Encounter <u>619.636</u> ft▼	H	S	Qu	T
Offset <u>60.7 ft Right</u>	H	S			Upon Completion <u>n/a</u> ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>624.64</u> ft	(ft)	(/6")	(tsf)	(%)	After <u>-</u> Hrs. <u>-</u> ft				

10.0" ASPHALT	623.80				CLAY LOAM-brown, gray & black-stiff to very stiff (Fill)				
CRUSHED STONE-loose		6		5	(continued)		12		
		6					10	2.10	21
		3					12	B	
	621.64								
CLAY LOAM-brown, gray & black-stiff to very stiff (Fill)		3					6		
		4	1.20	23			8	2.20	22
		▼-5	3	B		599.64	-25	10	B
		3			End Of Boring @ -25.0'. Boring backfilled with cuttings.				
		10	3.75	23					
		10	P						
		4							
		4	1.50	26					
	-10	7	P				-30		
		3							
		2	1.30	22					
		2	B						
		3							
		9	3.80	24					
	-15	9	B				-35		
		3							
		6	2.00	19					
		7	P						
		4							
		6	1.50	19					
	-20	9	P				-40		

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

SOIL BORING LOG

ROUTE FAI Route 80 from Chicago Street to US Route 30 DESCRIPTION I-80 Phase II LOGGED BY RT

SECTION - LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM

COUNTY Will DRILLING METHOD Hand Auger HAMMER TYPE Manual

STRUCT. NO. <u>-</u>	DEPTH H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. <u>n/a</u> ft
Station <u>-</u>					Stream Bed Elev. <u>n/a</u> ft
BORING NO. <u>NWB-019</u>					Groundwater Elev.:
Station <u>768+00</u>					First Encounter <u>Dry</u> ft
Offset <u>102.10ft Right</u>					Upon Completion <u>Dry</u> ft
Ground Surface Elev. <u>627.00</u> ft					After <u>-</u> Hrs. <u>-</u> ft

6.0" TOPSOIL-black	626.50	AS		38	
CLAY LOAM-brown-hard		AS			
			4.50	15	
			P		
		AS			
			4.50	19	
			P		
		AS			
	-5		4.00	20	
			P		
		AS			
			4.25	21	
			P		
	619.00				
Auger Refusal @ -8.0'. End Of Boring.					
	-10				
	-15				
	-20				

Z:\PROJECTS\2020\20012 EXP. I-80 FROM CHICAGO ST. TO RT 30, PTB 194-9\20012 BORING LOGS\20012_LOG.GPJ 3/9/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
 BBS, from 137 (Rev. 8-99)



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FAI Route 80 from
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 Route 30

SOIL BORING LOG

Date 3/24/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY MB

SECTION 14 LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765188.349, Easting 1059276.34

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-019A</u>	P	O	S	I	Groundwater Elev.:	T	W	S	S
Station <u>768+06</u>	T	H	Qu	T	First Encounter <u>Dry</u> ft	H	S	Qu	T
Offset <u>63.9 ft Right</u>	H	S			Upon Completion <u>n/a</u> ft				
Ground Surface Elev. <u>628.55</u> ft	(ft)	(/6")	(tsf)	(%)	After <u>-</u> Hrs. <u>-</u> ft	(ft)	(/6")	(tsf)	(%)

Soil Description	Depth (ft)	Blow Count (/6")	UCS (tsf)	Moisture (%)	Notes	Depth (ft)	Blow Count (/6")	UCS (tsf)	Moisture (%)
12.0" ASPHALT	627.55					608.05			
CLAY LOAM-brown-very dense (Possible Fill)	12				SAND-brown-medium dense		7		
	8	3.50	18			4			9
	4	P				6			
	6					6			
	7	3.50	17			6			9
	-5	6	B			7			
					603.55	-25			
	6				End Of Boring @ -25.0'. Boring backfilled with cuttings.				
	8	3.30	16						
	8	B							
	7								
	9	3.40	16						
	-10	13	B			-30			
becoming gray @ -10.5'									
	6								
	9	2.90	15						
	11	B							
	5								
	9	2.20	15						
	-15	8	B			-35			
	7								
	4	3.00	15						
	9	P							
	6								
	11	2.50	17						
	-20	13	P			-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

SOIL BORING LOG

FAI Route 80 from
 Chicago Street to US

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY RT

SECTION - LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM

COUNTY Will DRILLING METHOD Hand Auger HAMMER TYPE Manual

STRUCT. NO. -
 Station -

BORING NO. NWB-020
 Station 770+10
 Offset 88.20ft Right
 Ground Surface Elev. 626.05 ft

DEPTH H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
--------------------	--------------------------------	--------------------------------	------------------------------

Surface Water Elev. n/a ft
 Stream Bed Elev. n/a ft

Groundwater Elev.:
 First Encounter Dry ft
 Upon Completion Dry ft
 After - Hrs. - ft

6.0" TOPSOIL-black 625.55 AS 35

CLAY LOAM-brown-hard AS

4.00 P 19

AS

3.50 P 20

AS

-5 3.50 P 21

AS

4.50 P 20

618.05

Auger Refusal @ -8.0'. End Of Boring.

-10

-15

-20

Z:\PROJECTS\2020\20012 EXP. I-80 FROM CHICAGO ST. TO RT 30, PTB 194-9\20012 BORING.LOGS\20012_LOG.GPJ 3/9/23



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FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

Date 3/25/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY MB

SECTION 14 LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765165.183, Easting 1059474.248

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-020A
 Station 770+03
 Offset 63.7 ft Right
 Ground Surface Elev. 631.64 ft

DEPTH TH S (ft)	BLOW W S (/6")	UCS Qu (tsf)	MOIST S T (%)	Surface Water Elev. <u>n/a</u> ft	Stream Bed Elev. <u>n/a</u> ft	GROUNDWATER ELEV.: First Encounter <u>Dry</u> ft	Upon Completion <u>n/a</u> ft	After <u>-</u> Hrs. <u>-</u> ft	DEPTH TH S (ft)	BLOW W S (/6")	UCS Qu (tsf)	MOIST S T (%)
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6.0" ASPHALT	631.14					611.14						
CLAY LOAM-brown & gray-stiff to hard	4				SANDY LOAM-brown-medium dense				12			
	9	4.50	12	8		16						
	9	P				608.64			12			
	2				SAND-brown-medium dense				5			
	3	1.20	19	4		7						
	-5	2	B			606.64	-25		6			
	5				End Of Boring @ -25.0'. Boring backfilled with cuttings.							
	8	2.50	19									
	9	B										
	4											
	7	1.80	18									
	-10	5	B									
	4											
	6	2.20	21									
	8	B										
	5											
	8	2.80	18									
	-15	11	B									
	5											
	8	3.00	16									
	9	P										
	4											
	5	2.50	17									
	-20	10	P									

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



SOIL BORING LOG

FAI Route 80 from
Chicago Street to US
Route 30

ROUTE _____ DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION - LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM

COUNTY Will DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic

STRUCT. NO. -	D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T (%)	Surface Water Elev. n/a ft
Station -					Stream Bed Elev. n/a ft
BORING NO. NWB-021	625.50	HA			Groundwater Elev.:
Station 772+00					First Encounter 620.5 ft ▼
Offset 100.00ft Right					Upon Completion ft
Ground Surface Elev. 626.50 ft					After - Hrs. - ft

TOPSOIL-black	625.50	HA		23	
CLAY LOAM-brown-stiff to very stiff		HA		27	
		HA	1.00 P	25	
		HA	1.00 P	27	
		HA	2.50 P	23	
		HA	2.75 P	18	
		HA	2.50 P		
	Auger Refusal @ -9.5'. End Of Boring.	617.00			
	-10				
	-15				
	-20				

Z:\PROJECTS\2020\20012 EXP. I-80 FROM CHICAGO ST. TO RT 30, PTB 194-9\20012 BORING LOGS\20012_LOG.GPJ 3/9/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)



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FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY MB

SECTION 14 LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765148.842, Easting 1059666.081

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-021A
 Station 771+93
 Offset 63.9 ft Right
 Ground Surface Elev. 633.85 ft

D
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T

 (ft) (/6") (tsf) (%)

Surface Water Elev. n/a ft
 Stream Bed Elev. n/a ft
 Groundwater Elev.:
 First Encounter Dry ft
 Upon Completion n/a ft
 After - Hrs. - ft

D
E
P
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H

 B
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S
T

 (ft) (/6") (tsf) (%)

Soil Description	Depth (ft)	Blow Count (/6")	UCS (tsf)	Moisture (%)	Soil Description	Depth (ft)	Blow Count (/6")	UCS (tsf)	Moisture (%)
12.0" ASPHALT	632.85				CLAY LOAM-brown-very stiff to hard (continued)				
		9				3			
		8	5.90	16		5	2.50	17	
		8	B			6	B		
		5				6			
		4	2.70	19		10	3.10	18	
	-5	7	B			7	B		
					608.85	-25			
		6			End Of Boring @ -25.0'. Boring backfilled with cuttings.				
		5	3.00	22					
		5	B						
		4							
		4	3.10	22					
	-10	6	B			-30			
		2							
		4	3.60	24					
		4	B						
		6							
		9	5.30	17					
	-15	9	B			-35			
		4							
		8	2.75	18					
		10	P						
		4							
		7	4.90	20					
	-20	8	B			-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

SOIL BORING LOG

ROUTE FAI Route 80 from Chicago Street to US Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION - LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM

COUNTY Will DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-022
 Station 774+07
 Offset 96.00ft Right
 Ground Surface Elev. 627.62 ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
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Surface Water Elev. n/a ft
 Stream Bed Elev. n/a ft
 Groundwater Elev.:
 First Encounter Dry ft
 Upon Completion Dry ft
 After - Hrs. - ft

10.0" TOPSOIL-black	HA			
626.79				23
CLAY LOAM-brown & gray-stiff (Fill)	HA			
625.62		1.50		23
CLAY LOAM-brown-stiff to hard	HA			
		1.25		25
	HA			
-5		2.00		24
	HA			
		1.50		19
	HA			
-10		3.50		19
	HA			
616.62		4.50		20
Auger Refusal @ -11.0'. End Of Boring.				
-15				
-20				

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FAI Route 80 from
 Chicago Street to US

SOIL BORING LOG

Date 3/28/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY MB

SECTION 14 LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765136.923, Easting 1059878.746

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-022A
 Station 774+04
 Offset 65.4 ft Right
 Ground Surface Elev. 635.57 ft

D E P T H S H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. <u>n/a</u> ft	Stream Bed Elev. <u>n/a</u> ft	D E P T H	B L O W S	U C S Qu	M O I S T
(ft)	(/6")	(tsf)	(%)			(ft)	(/6")	(tsf)	(%)

12.0" ASPHALT						615.07			
634.57									
CLAY LOAM-brown, gray & spotted black-very stiff to hard (Fill)	4						2		
	4	4.20	18				3		23
	5	B					2		
						612.57			
	3						5		
	3	3.30	20				7	2.70	21
	-5	4	B			610.57	-25	9	B
	4								
	6	3.50	24						
	9	B							
627.57									
CLAY LOAM-brown-very stiff	6								
	7	3.70	18						
	-10	9	B				-30		
	4								
	6	3.70	18						
	9	B							
	5								
	7	4.80	19						
	-15	8	B				-35		
	4								
	5	2.30	20						
	5	B							
	5								
	4	3.00	20						
	-20	5	B				-40		

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
 Chicago Street to US

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 14 LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765131.191, Easting 1060080.639

COUNTY Will DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-023A</u>	P	O	S	I	Groundwater Elev.:	T	W	S	S
Station <u>776+03</u>	H	S	Qu	T	First Encounter <u>Dry</u> ft	H	S	Qu	T
Offset <u>68.5 ft Right</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion <u>n/a</u> ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>637.13</u> ft					After <u>-</u> Hrs. <u>-</u> ft				

DEPTH (ft)	SOIL DESCRIPTION	BLOWS (/6")	UCS (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)
0	12.0" ASPHALT							
636.13								
	CLAY LOAM with STONE-brown-hard (Fill)	22				5		
		8	4.00	14		6	2.75	17
		8	P			10	P	
634.13								
	CLAY LOAM-brown & gray-very stiff to hard							
		4				7		
		6	5.40	17		10	4.60	21
		8	B			12	B	
-5					612.13	-25		
		3						
		5	2.00	24				
		6	P					
		4						
		4	1.20	25				
-10		4	B			-30		
		4						
		8	3.75	23				
		9	P					
		7						
		12	5.60	17				
-15		12	B			-35		
		7						
		8	3.20	17				
		13	B					
		4						
		5	2.00	18				
-20		9	P			-40		

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

SOIL BORING LOG

FAI Route 80 from
 Chicago Street to US
 ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION - LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM

COUNTY Will DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u> Station <u>-</u>	D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T (%)	Surface Water Elev. <u>n/a</u> ft
					Stream Bed Elev. <u>n/a</u> ft
BORING NO. <u>NWB-024</u> Station <u>778+00</u> Offset <u>104.70ft Right</u> Ground Surface Elev. <u>637.40</u> ft					Groundwater Elev.: First Encounter <u>Dry</u> ft Upon Completion <u>Dry</u> ft After <u>-</u> Hrs. <u>-</u> ft

TOPSOIL-black	HA			28	
636.40					
CLAY LOAM-brown-stiff to hard	HA				
		1.50		25	
	HA	P			
		1.75		26	
		P			
	HA				
-5		3.25		16	
		P			
	HA				
		4.50		16	
		P			
629.40					
Auger Refusal @ -8.0'. End Of Boring.					
-10					
-15					
-20					

Z:\PROJECTS\2020\20012 EXP. I-80 FROM CHICAGO ST. TO RT 30, PTB 194-9\20012 BORING LOGS\20012_LOG.GPJ 3/9/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
 BBS, from 137 (Rev. 8-99)



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FAI Route 80 from
Chicago Street to US
Route 30

SOIL BORING LOG

Date 3/28/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 14 LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1060278.846, Easting 176135.13

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.						Surface Water Elev.	ft	D	B	U	M	Groundwater Elev.:	ft	D	B	U	M
Station		DEPTH	TH	UCS	MOIST	Stream Bed Elev.		DEPTH	LOW	CS	ST	First Encounter		TH	WS	Qu	ST
BORING NO.	NWB-024A	(ft)	(/6")	(tsf)	(%)	Upon Completion	ft	(ft)	(/6")	(tsf)	(%)	After	Hrs.	(ft)	(/6")	(tsf)	(%)
	Ground Surface Elev. 638.69																
	11.0" ASPHALT	637.78				CLAY LOAM-brown-stiff to very stiff (continued)											
	CLAY LOAM with STONE-brown & black-very stiff (Fill)		35						6								
			11	2.50	14				8	2.30	24						
			8	P					9	B							
	635.69																
	CLAY LOAM-brown-stiff to very stiff (Fill)		4						6								
			3	1.90	22				9	2.10	25						
		-5	7	B					9	B							
						613.69	-25										
						End Of Boring @ -25.0'. Boring backfilled with cuttings.											
			3														
			4	2.20	19												
			5	B													
			3														
			3	1.50	20												
		-10	5	P													
			3														
			3	1.90	22												
	625.69		5	B													
	SITLY CLAY-dark brown & gray-very stiff		3														
			5	2.00	27												
			7	P													
	623.19	-15															
	CLAY LOAM-brown-stiff to very stiff		5														
			7	2.20	20												
			8	B													
			4														
			8	1.50	18												
		-20	8	P													

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23



GEO Job No. 20012

SOIL BORING LOG

Page 1 of 1

Date 3/16/22

FAI Route 80 from
Chicago Street to US

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION - LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM

COUNTY Will DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft
BORING NO. <u>NWB-025</u>	P	O	S	I	Groundwater Elev.: <u>-</u>
Station <u>780+00</u>	T	W	Qu	S	First Encounter <u>Dry</u> ft
Offset <u>126.20ft Right</u>	H	S		T	Upon Completion <u>-</u> ft
Ground Surface Elev. <u>636.10</u> ft	(ft)	(/6")	(tsf)	(%)	After <u>-</u> Hrs. <u>-</u> ft

TOPSOIL-black	HA				
635.10				29	
CLAY LOAM-brown & gray spotted black-stiff to very stiff (Fill)	HA		1.00	20	
	HA	P			
			1.50	14	
		P			
	HA				
-5			2.50	18	
		P			
	HA				
628.60			1.00	33	
Auger Refusal @ -7.5'. End Of Boring.			P		
-10					
-15					
-20					

Z:\PROJECTS\2020\20012 EXP. I-80 FROM CHICAGO ST. TO RT 30, PTB 194-9\20012 BORING LOGS\20012_LOG.GPJ 3/9/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)



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 FAI Route 80 from
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 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY MB

SECTION 14 LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765141.253, Easting 1060480.479

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-025A</u>	P	O	S	I	Groundwater Elev.:	T	W	S	S
Station <u>780+02</u>	T	H	Qu	T	First Encounter <u>Dry</u> ft	H	S	Qu	T
Offset <u>68.8 ft Right</u>	H	S			Upon Completion <u>Dry</u> ft				
Ground Surface Elev. <u>640.34</u> ft	(ft)	(/6")	(tsf)	(%)	After <u>-</u> Hrs. <u>-</u> ft	(ft)	(/6")	(tsf)	(%)

DEPTH (ft)	SOIL DESCRIPTION	BLOWS (/6")	UCS (tsf)	MOIST (%)	ELEVATION (ft)	DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)
0	ASPHALT				619.84				
0	CLAY LOAM-brown & gray-very stiff to stiff (Apparent Fill)	4		18		6	9	3.90	20
4		4	3.80			13	B		
4		4	B						
2		2				5			
3		3	1.70	24		25	4.60	22	
-5		5	B		615.34	-25	50/2"	B	
	End Of Boring @ -25.0'. Boring backfilled with cuttings.								
4		4							
5		5	1.70	18					
5		5	B						
3		3							
4		4	2.80	22					
-10		7	B		-30				
2		2							
3		3	3.00	19					
4		4	B						
2		2							
2		2	2.25	20					
-15		3	P		-35				
624.84									
7	SILTY CLAY LOAM-brown & gray-stiff	7							
12		12	1.25	18					
10		10	P						
2		2							
4		4	1.75	20					
-20		7	P		-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY MB

SECTION 14 LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765147.173, Easting 1060679.935

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-026A</u>	P	O	S	I	Groundwater Elev.: <u>-</u> ft	T	W	S	S
Station <u>782+01</u>	H	S	Qu	T	First Encounter <u>625.84</u> ft▼	H	S	Qu	T
Offset <u>69.2 ft Right</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion <u>-</u> ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>641.84</u> ft					After <u>-</u> Hrs. <u>-</u> ft				

6.0" ASPHALT	641.34				621.34					
CLAY LOAM-brown & gray spotted black-stiff to hard (Fill)		3			SILTY SAND, GRAVEL & FRACTURED ROCK-brown-very dense		25			
		6	3.40	12		50/2"		15		
		4	B							
		6				50/2"				
		6	6.10	18				14		
		-5	6	B		616.84	-25			
						End Of Boring @ -25.0'. Boring backfilled with cuttings.				
			2							
			5	1.50		25				
			5	B						
		2								
		3	1.40	20						
	-10	3	B		-30					
		2								
		4	1.00	27						
		3	P							
		3								
		3	1.00	28						
	-15	2	P		-35					
	626.34									
CLAY LOAM-brown-very stiff to hard ▼		5								
		7	5.90	19						
		11	B							
		7								
		10	3.70	19						
	-20	12	B		-40					

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



Geo Services, Inc.

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(630) 355-2838

FAI Route 80 from
Chicago Street to US
Route 30

SOIL BORING LOG

Page 1 of 1

Date 2/15/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 14 LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765125.06, Easting 1060880.564

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-027
Station 784+01
Offset 76.5 ft Right
Ground Surface Elev. 643.17 ft

D
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C
S

M
O
I
S
T

(ft)
(/6")
(tsf)
(%)

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - Hrs. - ft

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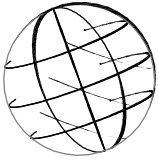
M
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(ft)
(/6")
(tsf)
(%)

6.0" CLAYEY TOPSOIL-brown & black	642.67				45	backfilled with cuttings.				
CLAY LOAM-brown & gray-very stiff		4								
		5	3.00	18						
		5	P							
		5								
		8	3.10	16						
		-5	11	B					-25	
		6								
		7	2.00	16						
		10	P							
		8								
becoming gray @ -8.0'		10	3.50	22						
	-10	12	B						-30	
	5									
	6	2.75	18							
	6	P								
	5									
	2	2.00	17							
	-15	9	P						-35	
	6									
	10	3.10	20							
	12	B								
	625.17									
SILTY LOAM-brown-very dense	624.17	50/1"		12						
Auger Refusal @ -19.0'. Possible Bedrock. End Of Boring. Boring									-40	

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
Chicago Street to US
Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 14 LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765152.567, Easting 1061085.365

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-028
Station 786+07
Offset 76.5 ft Right
Ground Surface Elev. 643.92 ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
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Surface Water Elev.	<u>n/a</u>	ft
Stream Bed Elev.	<u>n/a</u>	ft
Groundwater Elev.:		
First Encounter	<u>632.923</u>	ft▼
Upon Completion		ft
After - Hrs.	<u>-</u>	ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
-------------------------------	--------------------------------	----------------------------	------------------------------

6.0" TOPSOIL-black	643.42				Bedrock. End Of Boring. Boring backfilled with cuttings.
CLAY LOAM-brown & gray-very stiff		3		44	
		4	3.50	18	
		5	P		
		7			
		4	3.40	16	
	-5	5	B		-25
	6				
	12	3.00	17		
	12	P			
becoming gray @ -8.0'					
	6				
	-10	6	2.75	23	-30
		11	P		
	▼	8			
		8	2.75	19	
		10	P		
		4			
		6	2.00	19	
	-15	7	P		-35
		4			
		6	2.00	22	
		9	P		
	625.92				
SILTY CLAY LOAM-brown & gray-very stiff		50/4"			
	624.42		2.00	18	
Auger Refusal @ -19.5'. Possible	-20		P		-40

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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 Chicago Street to US
 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 14 LOCATION SE 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765160.651, Easting 1061297.814

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

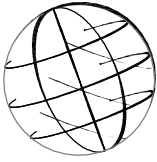
BORING NO. NWB-029
 Station 788+19
 Offset 75.1 ft Right
 Ground Surface Elev. 645.65 ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. <u>n/a</u> ft	Stream Bed Elev. <u>n/a</u> ft	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
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6.0" CLAYEY TOPSOIL-brown & black	645.15		33	Auger Refusal @ -20.0'. Possible Bedrock. End Of Boring. Boring backfilled with cuttings.						
CLAY LOAM-brown & gray-stiff to very stiff		4								
		4	3.00							22
		8	P							
		3								
		3	2.50							18
	-5	5	P							-25
		4								
		7	2.50							23
		12	B							
		4								
		7	1.75	31						
	-10	7	P	-30						
		4								
		8	3.40	25						
		10	B							
632.65										
SILTY LOAM-brown-loose		3								
		3		22						
	-15	5		-35						
630.15										
CLAY LOAM-gray-very stiff		7								
		9	3.50	15						
		9	P							
627.65										
CLAYEY GRAVEL-brown-dense		5								
		12		7						
625.65	-20	27		-40						

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 13 LOCATION SW 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765122.567, Easting 1061483.393

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-030
 Station 790+03
 Offset 118.9 ft Right
 Ground Surface Elev. 653.25 ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
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Surface Water Elev.	<u>n/a</u>	ft
Stream Bed Elev.	<u>n/a</u>	ft
Groundwater Elev.:		
First Encounter	<u>Dry</u>	ft
Upon Completion	<u>Dry</u>	ft
After <u>-</u> Hrs.	<u>-</u>	ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
-------------------------------	--------------------------------	----------------------------	------------------------------

6.0" TOPSOIL-black	652.75				backfilled with cuttings.			
CLAY LOAM with Stone-brown-very stiff (Fill)				28				
		4						
		5	2.20	14				
		6	B					
	650.25							
CLAY LOAM-brown & gray-very stiff to hard								
		4						
		5	2.60	17				
		-5	7	B			-25	
		5						
		5	4.40	25				
		7	B					
		5						
		7	4.20	25				
		-10	9	B			-30	
		5						
		6	3.50	15				
		9	P					
	640.25							
SILTY CLAY LOAM-brown-very stiff								
		6						
		6	2.50	16				
		-15	6	P			-35	
	637.75							
CLAY LOAM-brown-very stiff								
		5						
		7	3.40	17				
		11	B					
	634.25		50/1"	NR				
Auger Refusal @ -19.0'. Possible Bedrock. End Of Boring. Boring								
		-20					-40	

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
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SOIL BORING LOG

Date 2/14/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 14 LOCATION SE 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM,
Northing 1765181.4, Easting 1061697.3

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-031</u>	P	O	S	I	Groundwater Elev.:	T	W	S	S
Station <u>792+19</u>	H	S	Qu	T	First Encounter <u>Dry</u> ft	H	S	Qu	T
Offset <u>66.8 ft Right</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion <u>Dry</u> ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>649.30</u> ft					After <u>-</u> Hrs. <u>-</u> ft				

Soil Description	Depth (ft)	Blow Count (/6")	UCS (tsf)	Moisture (%)	Notes	Depth (ft)	Blow Count (/6")	UCS (tsf)	Moisture (%)
6.0" CLAYEY TOPSOIL-dark brown & black	648.80			38	Auger Refusal @ -20.5'. Possible Bedrock. End Of Boring. Boring backfilled with cuttings.	628.80			
SILTY CLAY-brown-hard		3							
		5	4.00	22					
		6	P						
	646.30								
CLAY LOAM-brown-very stiff		5							
		5	2.20	17					
		-5	7	B			-25		
becoming gray @ -5.5'		5							
		8	2.70	19					
		8	B						
		4							
		5	3.00	19					
		-10	8	P			-30		
		4							
		5	2.20	22					
		8	B						
		5							
		8	3.00	16					
		-15	12	P		-35			
		4							
		5	3.50	14					
		8	P						
	631.30								
FRACTURED ROCK-brown-very dense		15							
		23		6					
		-20	50/2"			-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
Chicago Street to US
Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 14 LOCATION SE 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM,
Northing 1765189, Easting 1061924.2

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-032
Station 794+46
Offset 66.3 ft Right
Ground Surface Elev. 649.50 ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
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Surface Water Elev.	<u>n/a</u>	ft
Stream Bed Elev.	<u>n/a</u>	ft
Groundwater Elev.:		
First Encounter	<u>Dry</u>	ft
Upon Completion	<u>Dry</u>	ft
After <u>-</u> Hrs.	<u>-</u>	ft

6.0" TOPSOIL-black	649.00				
CLAY LOAM-brown & gray-very stiff		5			55
		5	3.00	18	
		6	P		
		5			
		5	2.20	21	
		-5	5	B	
		5			
		8	3.00	21	
		11	P		
	becoming gray @ -8.0'		4		
		4	2.00	20	
	-10	4	P		
639.00					
SILTY CLAY-gray-medium stiff		2			
		3	0.50	15	
		3	P		
636.50					
CLAY LOAM-gray-very stiff		3			
		5	2.50	16	
		-15	7	B	
		5			
		15	2.50	16	
		50/1"	P		
631.00					
Auger Refusal @ -18.5'. Possible Bedrock. End Of Boring. Boring backfilled with cuttings.		50/1"			NR
	-20				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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 Chicago Street to US
 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 14 LOCATION SE 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765155.812, Easting 1062682

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-036
 Station 106+69
 Offset 38.3 ft Right
 Ground Surface Elev. 644.30 ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
-------------------------------	--------------------------------	----------------------------	------------------------------

Surface Water Elev.	<u>n/a</u>	ft
Stream Bed Elev.	<u>n/a</u>	ft
Groundwater Elev.:		
First Encounter	<u>Dry</u>	ft
Upon Completion	<u>Dry</u>	ft
After <u>-</u> Hrs.	<u>-</u>	ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
-------------------------------	--------------------------------	----------------------------	------------------------------

4.0" TOPSOIL-black	643.97				Bedrock. End Of Boring. Boring backfilled with cuttings.				
SILTY CLAY-dark brown-stiff			31						
		3							
		3	1.00	27					
		4	P						
	641.30								
CLAY LOAM-brown-stiff to very stiff		5							
		8	3.50	21					
		-5	11	P					-25
		5							
		6	3.00	21					
		8	P						
		3							
		3	3.50	22					
		-10	7	P				-30	
		5							
		7	2.40	21					
		9	B						
becoming gray @ -13.0'		3							
		4	2.50	16					
		-15	6	P				-35	
		4							
		6	3.00	17					
		8	P						
	626.30								
FRACTURED ROCK-very dense		50/1"							
	624.80			9					
Auger Refusal @ -19.5'. Possible		-20						-40	

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

Date 2/21/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 14 LOCATION SE 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765157.331, Easting 1062784.69

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-037
 Station 107+72
 Offset 32.9 ft Right
 Ground Surface Elev. 642.46 ft

DEPTH H S (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)
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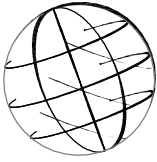
Surface Water Elev.	<u>n/a</u>	ft
Stream Bed Elev.	<u>n/a</u>	ft
Groundwater Elev.:		
First Encounter	<u>Dry</u>	ft
Upon Completion	<u>Dry</u>	ft
After <u>-</u> Hrs.	<u>-</u>	ft

DEPTH H S (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)
-------------------------	--------------------	--------------------	-------------------

6.0" TOPSOIL-black	641.96				backfilled with cuttings.			
CLAY LOAM-brown-stiff to very stiff			27					
		3						
		4	2.50	20				
		7	P					
		5						
		8	2.70	20				
	-5	9	B			-25		
		4						
		4	1.50	20				
		5	P					
		3						
		3	1.50	25				
	-10	5	P			-30		
		5						
		5	3.00	26				
		7	P					
		5						
		3	1.00	25				
	-15	4	P			-35		
		4						
		6	2.00	17				
		10	P					
		6						
	623.46	6						
Auger Refusal @ -19.0'. Possible Bedrock. End Of Boring. Boring	-20	50/3"	2.20	24		-40		

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 13 LOCATION SW 1/4, SEC. 13, TWP. T35N, RNG. R30E, 3rd PM,

Northing 1765471.035, Easting 1064874.901

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-038</u>	P	O	S	I	Groundwater Elev.: <u>-</u> ft	T	W	S	S
Station <u>824+04</u>	H	S	Qu	T	First Encounter <u>627.757</u> ft	H	S	Qu	T
Offset <u>123.2 ft Left</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion <u>-</u> ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>634.76</u> ft					After <u>-</u> Hrs. <u>-</u> ft				

12.0" TOPSOIL-black	633.76			37	614.26				
SILTY CLAY-brown & gray-stiff		3				3			
		4	1.20	25		4	1.50	21	
		6	B			5	P		
631.76					611.76				
LOAM-brown & gray-very loose to loose		1				4			
		2		23		6			17
		-5	2		609.76	-25	5		
becoming gray @ -5.5'									
		4							
		3		27					
		3							
626.76									
SILTY CLAY-gray-stiff		3							
		3	1.25	24					
		3	P						
-10									
624.26									
SILTY SAND with Gravel-gray-loose		2							
		3		28					
		2							
		4							
		3		22					
		3							
-15									
		3							
		3		15					
		4							
616.76									
SILT-gray-loose		3							
		4		24					
		3							
-20									

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 13 LOCATION SW 1/4, SEC. 13, TWP. T35N, RNG. R30E, 3rd PM,

Northing 1765426.658, Easting 1065074.12

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-039</u>	P	O	S	I	Groundwater Elev.:	T	W	S	S
Station <u>826+04</u>	H	S	Qu	T	First Encounter <u>630.909</u> ft▼	H	S	Qu	T
Offset <u>114 ft Left</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion <u> </u> ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>639.41</u> ft					After <u>-</u> Hrs. <u>-</u> ft				

12.0" TOPSOIL-black	638.41			29	618.91				
CLAY LOAM-brown & gray-stiff		3			SAND-brown-medium dense		5		
		3	1.10	21			10		25
		3	B				10		
636.41									
SANDY CLAY LOAM-brown & gray-medium stiff		1					6		
		2	0.50	23			3		17
		-5	2	P	614.41	-25	10		
633.91					End Of Boring @ -25.0'. Boring backfilled with cuttings.				
SANDY LOAM-brown-loose		3							
		2		26					
		3							
		▼							
		3							
		2		24					
	-10	33							
628.91									
SILTY SAND with Gravel-brown-very loose to loose		2							
		2		25					
		2							
		1							
		2		20					
	-15	2							
623.91									
SAND-brown-loose		2							
		3		33					
		2							
621.41									
CLAY LOAM-gray-stiff		3							
		3	1.50	17					
		6	P						
	-20								

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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SOIL BORING LOG

Page 1 of 1

Date 2/15/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 13 LOCATION SE 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765469.864, Easting 1065272.768

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-040</u>	P	O	S	I	Groundwater Elev.: <u>-</u>	T	W	S	S
Station <u>828+02</u>	H	S	Qu	T	First Encounter <u>627.459</u> ft▼	H	S	Qu	T
Offset <u>109.5 ft Left</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion <u>-</u> ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>634.46</u> ft					After <u>-</u> Hrs. <u>-</u> ft				

12.0" TOPSOIL-black	633.46			43	613.96				
SILTY CLAY-brown & gray-stiff		3			SAND-gray-medium dense		4		
		3	1.75	23			7		16
		3	P				11		
631.46									
SANDY LOAM-brown & gray-very loose		1					3		
		2		18			7		22
		-5	2		609.46	-25	9		
628.96					End Of Boring @ -25.0'. Boring backfilled with cuttings.				
SILTY CLAY-gray-medium stiff		3							
		2	0.80	27					
		3	B						
626.46									
CLAY LOAM-gray-stiff to very stiff		3							
		4	1.30	25					
		4	B						
		-10							
		3							
		4	2.50	24					
		7	P						
621.46									
SAND-gray-loose		2							
		3		23					
		5							
		-15							
618.96									
CLAY LOAM-gray-very stiff		3							
		5	2.10	20					
		11	B						
		4							
		5	3.25	27					
		9	P						
		-20							

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
 Chicago Street to US

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 13 LOCATION SW 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765464.134, Easting 1065474.058

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-041</u>	P	O	S	I	Groundwater Elev.:	T	W	S	S
Station <u>830+03</u>	H	S	Qu	T	First Encounter <u>624.607</u> ft▼	H	S	Qu	T
Offset <u>98 ft Left</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion _____ ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>633.61</u> ft					After <u>-</u> Hrs. _____ ft				

12.0" TOPSOIL-black 632.61				35	SAND-gray-medium dense (continued)				
CLAY LOAM-brown & gray-stiff	2					5			
	3	1.00	27			6		17	
	3	P				7			
	2					4			
	2	1.00	29			5		NR	
	-5	2	B		608.61	-25	6		
					End Of Boring @ -25.0'. Boring backfilled with cuttings.				
	4								
	5	1.30	23						
	6	B							
625.61									
SAND-brown- loose	3								
	3		23						
	3								
	-10								
623.11									
CLAY-gray-very stiff	4								
	5	2.40	20						
	10	B							
	3								
	4	2.50	20						
	-15	6	P						
	3								
	5	2.00	28						
	6	P							
615.61									
SAND-gray-medium dense	4								
	7		17						
	10								
	-20								

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 13 LOCATION SW 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765472.738, Easting 1065675.383

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-042</u>	P	O	S	I	Groundwater Elev.: <u>-</u>	T	W	S	S
Station <u>832+04</u>	H	S	Qu	T	First Encounter <u>626.343</u> ft▼	H	S	Qu	T
Offset <u>99.8 ft Left</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion <u>-</u> ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>633.84</u> ft					After <u>-</u> Hrs. <u>-</u> ft				

12.0" TOPSOIL-black	632.84			6	613.34				
		3			SAND-gray-medium dense		4		
CLAY LOAM-brown & gray-stiff to very stiff		4	1.50	24			5		25
		6	P				6		
					610.84				
		3			CLAY-gray-stiff		3		
		5	2.70	23			4	1.00	26
		-5	6	B			6	P	
					608.84	-25			
		3			End Of Boring @ -25.0'. Boring backfilled with cuttings.				
		3	2.20	24					
		5	B						
625.84									
CLAYEY SAND-brown-loose to medium dense		3							
		3		26					
	-10	3				-30			
		4							
		5		22					
		6							
620.84									
SILTY SAND-brown-loose to medium dense		2							
		3		27					
	-15	4				-35			
		3							
		4		22					
		5							
		3							
		5		26					
	-20	6				-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 13 LOCATION SW 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765469.851, Easting 1065873.35

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-043</u>	P	O	S	I	Groundwater Elev.:	T	W	S	S
Station <u>834+02</u>	H	S	Qu	T	First Encounter <u>627.361</u> ft	H	S	Qu	T
Offset <u>90.7 ft Left</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion <u> </u> ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>633.86</u> ft					After <u>-</u> Hrs. <u>-</u> ft				

12.0" TOPSOIL-black	632.86			44	613.36				
SILTY CLAY-brown & gray-stiff		3			CLAYEY SAND & GRAVEL-brown-medium dense		9		16
		2	1.25	27			11		
		3	P				10		
SAND with Gravel-gray-loose					610.86				
		2					3		
		3	1.50	26			4		21
		-5	3	P			5		
		628.36				608.86	-25		
SILTY SAND & gravel-brown-very loose		1		28	End Of Boring @ -25.0'. Boring backfilled with cuttings.				
SANDY LOAM-brown-very loose to loose		1							
		1							
		1							
		2							
		2		30					
SILTY SAND with GRAVEL-brown-loose		2							
		2							
		-10							
		3							
		5		23					
SAND-brown & gray-dense		4							
		3							
		3		24					
		6							
		615.86							
SAND-brown & gray-dense		12							
		14		28					
		-20	16						-40

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 13 LOCATION SW 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765451.294, Easting 1066075.183

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-044</u>	P	O	S	I	Groundwater Elev.: <u>-</u> ft	T	W	S	S
Station <u>836+03</u>	H	S	Qu	T	First Encounter <u>633.108</u> ft	H	S	Qu	T
Offset <u>65.9 ft Left</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion <u>-</u> ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>639.61</u> ft					After <u>-</u> Hrs. <u>-</u> ft				

12.0" TOPSOIL-black	638.61			71	619.11				
					CLAY LOAM-gray-stiff to very stiff				
SILTY CLAY-dark brown, gray & black-stiff		2					3		
		4	1.20	28			5	1.75	14
		5	B				5	P	
		2					3		
		3	1.75	23			4	2.00	13
		-5	4	P			6	P	
	634.11				614.61	-25			
SILTY CLAY LOAM-brown & gray-very loose		1			End Of Boring @ -25.0'. Boring backfilled with cuttings.				
		1		25					
		1							
	631.61								
SANDY CLAY LOAM-gray-loose		1							
		3		25					
		3							
	-10					-30			
	629.11								
CLAY LOAM-gray-very stiff		3							
		6	2.70	21					
		7	B						
		3							
		6	2.20	22					
		9	B						
	-15					-35			
		3							
		5	2.75	24					
		7	P						
	621.61								
SILTY LOAM-gray-medium dense		2							
		4		21					
		6							
	-20					-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 13 LOCATION SW 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765480.818, Easting 1066275.651

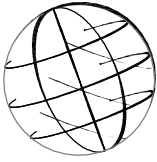
COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-045</u>	P	O	S	I	Groundwater Elev.: <u>-</u>	T	W	S	S
Station <u>838+05</u>	H	S	Qu	T	First Encounter <u>628.641</u> ft▼	H	S	Qu	T
Offset <u>89.1 ft Left</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion <u>-</u> ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>635.14</u> ft					After <u>-</u> Hrs. <u>-</u> ft				

12.0" TOPSOIL-black					614.64				
634.14				72					
SILTY CLAY-brown & gray-medium stiff to stiff	3				SILTY SAND & GRAVEL-gray-medium dense	4			18
	3	0.50	24			5			
	4	P				9			
					612.14				
					SILTY CLAY LOAM-gray-stiff				
	2					4			
	2	1.00	26			5	1.50	14	
	-5	3	P			6	P		
629.64					610.14	-25			
SANDY LOAM-brown-loose to medium dense	2				End Of Boring @ -25.0'. Boring backfilled with cuttings.				
	4		21						
	6								
	4								
	5		17						
	-10	6				-30			
624.64									
CLAY LOAM-gray-stiff to very stiff									
	3								
	4	2.50	20						
	6	P							
	3								
	5	1.80	19						
	-15	7	B			-35			
619.64									
SILT-gray-loose to medium dense									
	5								
	7		19						
	4								
	2								
	2		1						
	-20	4				-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



Geo Services, Inc.

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FAI Route 80 from
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Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 13 LOCATION SE 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765353.593, Easting 1068132.123

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-046
Station 856+50
Offset 99 ft Right
Ground Surface Elev. 646.83 ft

DEPTH TH S	BLOW W S	UCS Qu	MOIST S T	Surface Water Elev. <u>n/a</u> ft	Stream Bed Elev. <u>n/a</u> ft	DEPTH TH S	BLOW W S	UCS Qu	MOIST S T
(ft)	(/6")	(tsf)	(%)			(ft)	(/6")	(tsf)	(%)
6.0"									
			39						
	3						4		
	3	1.00	24				5	2.50	21
	3	B					7	P	
					623.83				
	3						4		
	3	1.50	23				6	2.50	20
	-5	5	P				12	P	
					621.83	-25			
	4								
	5	2.00	21						
	8	B							
	5								
	7	3.10	19						
	-10	13	B				-30		
	4								
	5	3.00	20						
	7	P							
	6								
	6	2.75	19						
	-15	7	P				-35		
	3								
	4	2.50	21						
	6	P							
	3								
	4	2.75	21						
	-20	6	P				-40		

6.0" TOPSOIL-black 646.33

CLAY LOAM-brown & gray-stiff to very stiff

CLAY LOAM-brown & gray-stiff to very stiff (continued)

SILTY CLAY-gray-very stiff

End Of Boring @ -25.0'. Boring backfilled with cuttings.

becoming gray @ -10.5'

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
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 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 13 LOCATION SE 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765362.44, Easting 1068329.028

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-047
 Station 585+53
 Offset 93.5 ft Right
 Ground Surface Elev. 645.35 ft

D E P T H S T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. <u>n/a</u> ft	Stream Bed Elev. <u>n/a</u> ft	D E P T H	B L O W S	U C S Qu	M O I S T
(ft)	(/6")	(tsf)	(%)			(ft)	(/6")	(tsf)	(%)

TOPSOIL-black			39						
	4						6		
	5	2.50	35				6	2.00	22
	6	P					7	P	
642.35					622.35				
CLAY LOAM-brown & gray-very stiff	5						5		
	5	3.00	25				5		20
	-5	6	P			620.35	-25	6	
	8								
	10	2.25	24						
	12	P							
becoming gray @ -8.0'									
	5								
	5	2.50	19						
	-10	6	P				-30		
	4								
	4	2.50	20						
	5	P							
	6								
	4	2.25	20						
	-15	6	P				-35		
	4								
	5	2.50	28						
	7	P							
	5								
	5	3.25	21						
	-20	6	P				-40		

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



Geo Services, Inc.

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 (630) 355-2838

FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

Date 2/23/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 13 LOCATION SE 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765364.937, Easting 1068534.336

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-048
 Station 860+59
 Offset 97.5 ft Right
 Ground Surface Elev. 644.94 ft

DEPTH TH (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)
---------------------	--------------------	--------------------	-------------------

Surface Water Elev. n/a ft
 Stream Bed Elev. n/a ft
 Groundwater Elev.:
 First Encounter 621.435 ft▼
 Upon Completion ft
 After - Hrs. - ft

DEPTH TH (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)
---------------------	--------------------	--------------------	-------------------

6.0" TOPSOIL-black	644.44				CLAY LOAM-brown & gray-stiff to very stiff (continued)			
SILTY CLAY-dark brown & gray-stiff		3		91			5	
		3	1.00	31			6	2.00
		6	P				11	P
	641.94					621.94		
CLAY LOAM-brown & gray-stiff to very stiff		3			SILT-gray-medium dense	▼		
		4	2.20	23			9	
		5					6	19
		-5	6	B		619.94	-25	6
		4			End Of Boring @ -25.0'. Boring backfilled with cuttings.			
		5	1.90	22				
		8	B					
		5						
		6	2.50	21				
	-10	9	B				-30	
becoming gray @ -10.5'		5						
		7	3.00	19				
		9	P					
		4						
		5	3.00	18				
	-15	7	P				-35	
		4						
		5	2.25	22				
		7	P					
		3						
		3	1.50	22				
	-20	5	P				-40	

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

Date 2/23/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 13 LOCATION SE 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765370.729, Easting 1068721.275

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-049
 Station 862+46
 Offset 97.5 ft Right
 Ground Surface Elev. 644.84 ft

DEPTH TH S (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)	Surface Water Elev.	n/a	ft	DEPTH TH S (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)
				Stream Bed Elev.	n/a	ft				
				Groundwater Elev.:						
				First Encounter	636.341	ft				
				Upon Completion		ft				
				After	-	ft				
6.0"				6.0" TOPSOIL-black	644.34					
			32	CLAY LOAM-brown & gray-very stiff				4		
	5							7	3.00	22
	6	2.00	23					15	P	
	6	P								
					621.84					
				SILTY LOAM-gray-medium dense				6		
	5							5		17
	5	2.00	26					5		
	-5	7	P		619.84	-25				
				End Of Boring @ -25.0'. Boring backfilled with cuttings.						
	5									
	8	2.00	20							
	8	P								
	5									
	5	2.20	20							
	-10	8	B					-30		
				becoming gray @ -10.5'						
	6									
	9	2.20	17							
	13	B								
	6									
	7	3.00	23							
	-15	7	P					-35		
	4									
	5	2.50	23							
	6	P								
	4									
	4	2.00	23							
	-20	6	P					-40		

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

Date 2/23/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 13 LOCATION SE 1/4, SEC. 13, TWP. T35N, RNG. R10E, 3rd PM,

Northing 1765378.085, Easting 1068930.99

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-050
 Station 864+55
 Offset 96.7 ft Right
 Ground Surface Elev. 643.66 ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. <u>n/a</u> ft	Stream Bed Elev. <u>n/a</u> ft	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
-------------------------------	--------------------------------	----------------------------	------------------------------	-----------------------------------	--------------------------------	-------------------------------	--------------------------------	----------------------------	------------------------------

5.0" TOPSOIL-black	643.24								
CLAY LOAM-brown & gray-stiff (Fill)		3					5		
		4	1.50	29			7	2.50	23
		4	P				7	P	
					620.66				
		3					4		
		3	1.50	35			3		25
		-5	5	P			3		
	638.16								
CLAY LOAM-brown-stiff to very stiff		4							
		4	1.25	24					
		7	P						
		4							
		7	3.00	22					
		-10	12	P					
		5							
		8	3.00	23					
		9	P						
		4							
		5	3.00	25					
		-15	7	P					
becoming gray @ -15.5'		5							
		5	2.50	22					
		6	P						
		4							
		6	2.00	22					
		-20	8	P					

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
 Chicago Street to US

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 18 LOCATION SW 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765637.174, Easting 1071368.147

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-051
 Station 889+99
 Offset 85.9 ft Left
 Ground Surface Elev. 654.02 ft

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 (ft) (/6") (tsf) (%)

Surface Water Elev. n/a ft
 Stream Bed Elev. n/a ft
 Groundwater Elev.:
 First Encounter Dry ft
 Upon Completion Dry ft
 After - Hrs. - ft

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 (ft) (/6") (tsf) (%)

TOPSOIL-black	653.02			52	CLAY LOAM-gray-very stiff (continued)			
CLAY LOAM-brown-stiff to very stiff		3				4		
		4	1.80	21		5	2.50	19
		6	B			8	P	
		3				4		
		5	1.50	19		6	2.50	18
		6	P			7	P	
	-5				629.02	-25		
End Of Boring @ -25.0'. Boring backfilled with cuttings.		3						
		4	2.50	22				
		6	P					
		4						
		6	3.50	20				
	-10	8	P			-30		
SILT-gray-medium dense	643.52							
		2						
		4		21				
		6						
CLAY LOAM-gray-very stiff	641.02							
		3						
		5	3.00	18				
	-15	8	P			-35		
		3						
		5	2.50	19				
		7	P					
		2						
		4	2.50	19				
	-20	6	P			-40		

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 18 LOCATION SW 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765645.679, Easting 1071573.275

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-052</u>	P	O	S	I	Groundwater Elev.:	T	W	S	S
Station <u>891+05</u>	H	S	Qu	T	First Encounter <u>645.344</u> ft▼	H	S	Qu	T
Offset <u>88 ft Left</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion _____ ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>652.34</u> ft					After <u>-</u> Hrs. _____ ft				

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)
651.34			35	TOPSOIL-black				
	3			CLAY LOAM-brown-stiff to very stiff		4		
	4	2.00	26			7	3.50	18
	5	P				6	P	
	4					4		
	5	3.50	19			6	3.50	18
-5	6	P			627.34	7	P	
				CLAY LOAM-brown-stiff to very stiff (continued)	-25			
	5			End Of Boring @ -25.0'. Boring backfilled with cuttings.				
▼	4	1.00	19					
	4	P						
	3							
	4	2.50	23					
-10	6	P			-30			
				becoming gray @ -10.5'				
	4							
	6	2.50	21					
	8	P						
	4							
	6	3.00	21					
-15	9	P			-35			
	4							
	6	3.50	20					
	10	P						
	4							
	6	3.50	19					
-20	8	P			-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 18 LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765649.616, Easting 1071772.238

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-053
 Station 893+04
 Offset 85.7 ft Left
 Ground Surface Elev. 650.77 ft

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 (ft) (/6") (tsf) (%)

Surface Water Elev. n/a ft
 Stream Bed Elev. n/a ft
 Groundwater Elev.:
 First Encounter Dry ft
 Upon Completion Dry ft
 After - Hrs. - ft

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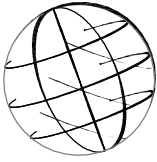
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 (ft) (/6") (tsf) (%)

TOPSOIL-black					CLAY LOAM-brown-stiff to very stiff (continued)				
	649.77			60					
CLAY LOAM-brown-stiff to very stiff		4					3		
		4	1.50	20			5	2.50	19
		4	P				7	P	
		4					3		
		7	2.40	19			4	1.75	19
		-5	7	B		625.77	-25	6	P
					End Of Boring @ -25.0'. Boring backfilled with cuttings.				
		3							
		5	1.20	19					
		7	B						
		4							
		6	2.50	20					
	-10	8	P				-30		
becoming gray @ -10.5'									
		3							
		5	3.00	22					
		8	P						
		2							
		4	2.00	22					
	-15	6	P				-35		
		3							
		4	2.50	18					
		6	P						
		4							
		4	2.00	14					
	-20	6	P				-40		

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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 Chicago Street to US
 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 18 LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765657.34, Easting 1071967.827

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-054
 Station 895+00
 Offset 87.3 ft Left
 Ground Surface Elev. 649.62 ft

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 (ft) (/6") (tsf) (%)

Surface Water Elev. n/a ft
 Stream Bed Elev. n/a ft
 Groundwater Elev.:
 First Encounter Dry ft
 Upon Completion Dry ft
 After - Hrs. - ft

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 (ft) (/6") (tsf) (%)

Soil Description	Depth (ft)	Blow Count (/6")	UCS (tsf)	Moisture (%)	Soil Description	Depth (ft)	Blow Count (/6")	UCS (tsf)	Moisture (%)
TOPSOIL-black	648.62			55	CLAY LOAM-brown-stiff to very stiff (continued)	3			
		4				5	2.50	18	
		5	2.00	30		6	P		
		6	P						
		3				3			
		4	1.75	25		4	2.50	18	
	-5	6	P			7	P		
					624.62	-25			
		4			End Of Boring @ -25.0'. Boring backfilled with cuttings.				
		6	1.80	20					
		8	B						
becoming gray @ -8.0'		3							
		4	2.75	17					
	-10	5	P			-30			
		3							
		4	3.00	20					
		6	P						
		3							
		4	2.50	20					
	-15	5	P			-35			
		3							
		5	1.80	19					
		7	B						
		4							
		6	2.50	19					
	-20	7	P			-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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 Chicago Street to US
 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 18 LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E,

Northing 1765666.196, Easting 1072167.916

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-055</u>	P	O	S	I	Groundwater Elev.:	T	W	S	S
Station <u>897+00</u>	H	S	Qu	T	First Encounter <u>628.05</u> ft▼	H	S	Qu	T
Offset <u>89.9 ft Left</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion _____ ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>649.05</u> ft					After <u>-</u> Hrs. _____ ft				

TOPSOIL-black	648.05			27	628.55				
CLAY LOAM-brown & gray-stiff to very stiff		2			SILT-gray-medium dense	▼	3		
		2	1.00	22			4		21
		3	P				6		
					626.05				
		5			SILTY CLAY LOAM-gray-stiff		4		
		7	3.10	14			6	1.50	17
		-5	10	B	624.05	-25	7	P	
					End Of Boring @ -25.0'. Boring backfilled with cuttings.				
		5							
		6	1.80	22					
		7	B						
		11							
		8	1.50	17					
		-10	6	P					
	638.05								
COBBLES & BOULDERS-very dense		50/5"		2					
	636.55								
CLAY LOAM-gray-very stiff									
		3							
		5	2.25	19					
		-15	6	P					-35
		3							
		5	2.25	22					
		7	P						
		3							
		4	2.75	21					
		-20	7	P					-40

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



Geo Services, Inc.

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FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 18 LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765671.745, Easting 1072370.697

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.					Surface Water Elev.	ft	D	B	U	M				
Station					Stream Bed Elev.	ft	E	L	C	O				
BORING NO.					Groundwater Elev.:	ft	P	O	S	I				
Station					First Encounter	ft	T	W	Q	S				
Offset					Upon Completion	ft	H	S	T	T				
Ground Surface Elev.	ft	(ft)	(/6")	(tsf)	(%)	After	Hrs.	(ft)	(/6")	(tsf)	(%)			

TOPSOIL-black	648.34				43	CLAY LOAM-brown-very stiff (continued)								
			2					3						
SILTY CLAY-dark brown & gray-stiff			3	1.40	29			5	3.10	17				
			4	B				6	B					
	646.34													
CLAY LOAM-brown-very stiff			3					3						
			4	3.50	16			5	2.20	18				
			-5	B			624.34	-25	8	B				
						End Of Boring @ -25.0'. Boring backfilled with cuttings.								
			4											
			5	2.50	18									
			7	P										
			5											
			6	2.20	18									
	-10		9	B				-30						
becoming gray @ -10.5'														
			5											
			6	2.50	17									
			7	P										
			5											
			6	3.10	16									
	-15		8	B				-35						
			3											
			4	2.50	22									
			6	P										
			3											
			5	2.25	20									
	-20		7	P				-40						

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23



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 FAI Route 80 from
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 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 18 LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765682.871, Easting 1072573.396

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-057</u>	P	O	S	I	Groundwater Elev.:	T	W	S	S
Station <u>901+06</u>	H	S	Qu	T	First Encounter <u>Dry</u> ft	H	S	Qu	T
Offset <u>93.8 ft Left</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion <u>Dry</u> ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>649.44</u> ft					After <u>-</u> Hrs. <u>-</u> ft				

Soil Description	Depth (ft)	Blow Count (/6")	UCS (tsf)	Moisture (%)	Notes	Depth (ft)	Blow Count (/6")	UCS (tsf)	Moisture (%)	
TOPSOIL-black	648.44			33	CLAY LOAM-brown & gray-stiff to very stiff (continued)					
SILTY CLAY-black-stiff (Fill)		3				4				
		3	1.20	28		5	2.00	14		
		5	B			6	P			
CLAY LOAM-brown & gray-stiff (Fill)	646.44									
		3				3				
		3	1.20	18		4	1.30	18		
	-5	4	B			6	B			
	643.94					624.44	-25			
SILTY CLAY-dark brown & gray-medium stiff		2				End Of Boring @ -25.0'. Boring backfilled with cuttings.				
		2	0.50	35						
		3	P							
CLAY LOAM-brown & gray-stiff to very stiff	641.44									
		2								
		3	2.60	19						
	-10	4	B							
becoming gray @ -10.5'		3								
		5	2.10	19						
		7	B							
		3								
		4	3.75	21						
	-15	7	P							
		3								
		5	1.75	22						
		5	P							
		3								
		3	1.50	13						
	-20	5	P							

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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 Naperville, Illinois 60565
 (630) 355-2838
 FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

Date 2/9/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 18 LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765685.279, Easting 1072767.109

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-058
 Station 902+99
 Offset 90.2 ft Left
 Ground Surface Elev. 649.45 ft

DEPTH H S	B L O W S	U C S Qu	M O I S T	Surface Water Elev. <u>n/a</u> ft	Stream Bed Elev. <u>n/a</u> ft	Groundwater Elev.:	DEPTH H S	B L O W S	U C S Qu	M O I S T
(ft)	(/6")	(tsf)	(%)			First Encounter <u>649.452</u> ft	(ft)	(/6")	(tsf)	(%)

TOPSOIL-black						628.95				
648.45			65							
CLAY LOAM-brown-very stiff	3							50/2"		18
	6	3.10	18							
	9	B				626.45				
	4							3		
	7	3.10	17					5	2.00	18
	-5	10	B			624.45	-25	6	P	
	3									
	7	2.70	19							
	10	B								
becoming gray @ -8.0										
	4									
	7	2.70	19							
	-10	9	B				-30			
	3									
	4	2.50	22							
	6	P								
	2									
	4	2.50	22							
	-15	6	P				-35			
	5									
	6	3.00	18							
	10	P								
	3									
	5	2.00	12							
	-20	6	P				-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
 Chicago Street to US

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 18 LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765698.661, Easting 1072969.909

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-059
 Station 905+02
 Offset 97.2 ft Left
 Ground Surface Elev. 650.32 ft

D E P T H
B L O W S
U C S
M O I S T
 (ft) (/6") (tsf) (%)

Surface Water Elev. n/a ft
 Stream Bed Elev. n/a ft
 Groundwater Elev.:
 First Encounter 643.32 ft▼
 Upon Completion _____ ft
 After - Hrs. _____ ft

D E P T H
B L O W S
U C S
M O I S T
 (ft) (/6") (tsf) (%)

Soil Description	Depth (ft)	Blows (/6")	UCS (tsf)	Moist (%)	Soil Description	Depth (ft)	Blows (/6")	UCS (tsf)	Moist (%)
TOPSOIL-black	649.32			84	CLAY LOAM-brown & gray-stiff to very stiff (continued)				
		3				3			
CLAY LOAM-brown & gray-stiff to very stiff		3	3.40	17		5	2.75	21	
		5	B			8	P		
		2				4			
		4	1.50	22		5	2.00	23	
	-5	5	P			7	P		
					625.32	-25			
		4			End Of Boring @ -25.0'. Boring backfilled with cuttings.				
		6	3.10	21					
		7	B						
becoming gray @ -8.0		4							
		6	2.20	19					
	-10	8	B			-30			
		3							
		6	2.25	21					
		8	P						
		3							
		4	2.25	20					
	-15	6	P			-35			
		3							
		4	2.00	22					
		5	P						
		4							
		4	2.00	22					
	-20	7	P			-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 18 LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM,
Northing 1765705.786, Easting 1073171.598

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-060</u>	P	O	S	I	Groundwater Elev.:	T	W	S	S
Station <u>907+04</u>	H	S	Qu	T	First Encounter <u>637.862</u> ft▼	H	S	Qu	T
Offset <u>98 ft Left</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion <u> </u> ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>649.86</u> ft					After <u>-</u> Hrs. <u>-</u> ft				

CLAYEY SAND & GRAVEL-dark brown 648.86				21	629.36				
CLAY LOAM-brown & gray-very stiff	4			18	SILTY CLAY LOAM-gray-very stiff	3			14
	4	2.50				5	2.00		
	5	P				5	P		
					626.86				
	4				CLAY LOAM-gray-very stiff	4			
	6	3.50		18		6	3.40		17
	-5	7	B		624.86	-25	9	B	
					End Of Boring @ -25.0'. Boring backfilled with cuttings.				
	4								
	5	3.50		16					
	6	B							
	3								
	4	3.25		18					
	-10	5	P			-30			
becoming gray @ -10.5									
	4								
	4	2.75		19					
	5	P							
	4								
	4	2.00		22					
	-15	5	P			-35			
	2								
	4	2.00		22					
	5	B							
	3								
	4	2.50		22					
	-20	6	P			-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
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 Route 30

SOIL BORING LOG

Date 2/8/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 18 LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765714.187, Easting 1073363.838

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

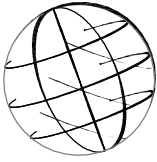
BORING NO. NWB-061
 Station 908+97
 Offset 100.4 ft Left
 Ground Surface Elev. 648.63 ft

DEPTH TH S	UCS Qu	MOIST T	Surface Water Elev.	Stream Bed Elev.	DEPTH TH S	UCS Qu	MOIST T
(ft)	(tsf)	(%)	n/a	n/a	(ft)	(tsf)	(%)

CLAYEY TOPSOIL-dark brown & black 647.63					CLAY LOAM-brown & gray-stiff to very stiff (continued)			
	3					5		
CLAY LOAM-brown & gray-stiff to very stiff	5	2.50	17			6	1.80	
	5	B				7	B	
	3					4		
	4	2.50	18			5	2.00	
	-5	4	B		623.63	-25	6	P
					End Of Boring @ -25.0'. Boring backfilled with cuttings.			
	3							
	5	2.70	20					
	8	B						
	4							
	8	3.40	19					
	-10	12	B			-30		
becoming gray @ -10.5								
	4							
	7	2.50	22					
	8	B						
	3							
	4	1.50	23					
	-15	5	P			-35		
	4							
	5	1.80	18					
	50/1"	B						
	3							
	5	1.75	17					
	-20	7	P			-40		

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 18 LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765719.404, Easting 1073566.818

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-062</u>	P	O	S	I	Groundwater Elev.:	T	W	S	S
Station <u>911+00</u>	H	S	Qu	T	First Encounter <u>633.925</u> ft▼	H	S	Qu	T
Offset <u>99.2 ft Left</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion _____ ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>643.93</u> ft					After <u>-</u> Hrs. _____ ft				

TOPSOIL-black 642.93				31	CLAY LOAM-brown-stiff to very stiff (continued)				
CLAY LOAM-dark brown & gray spotted black-stiff (Fill)	3					3			
	4	1.50		31		5	2.20		18
	4	P				8	B		
	3					4			
	16	1.00		18		6	2.10		18
	-5	6	P		618.93	-25	7	B	
638.43					End Of Boring @ -25.0'. Boring backfilled with cuttings.				
CLAY LOAM-brown-stiff to very stiff	2								
	3	1.00		20					
	4	P							
	3								
	5	3.75		20					
	▼-10	7	P			-30			
becoming gray @ -10.5									
	4								
	6	2.20		16					
	7	B							
	3								
	3	1.80		16					
	-15	6	B			-35			
	3								
	5	2.50		17					
	7	B							
	3								
	6	2.20		18					
	-20	9	B			-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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 FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

Page 1 of 1

Date 2/7/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 18 LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765727.676, Easting 1073774.496

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-063
 Station 913+07
 Offset 101 ft Left
 Ground Surface Elev. 642.69 ft

D E P T H S	B L O W S	U C S Qu	M O I S T
(ft)	(/6")	(tsf)	(%)

Surface Water Elev. n/a ft
 Stream Bed Elev. n/a ft
 Groundwater Elev.:
 First Encounter 631.692 ft▼
 Upon Completion _____ ft
 After - Hrs. _____ ft

D E P T H S	B L O W S	U C S Qu	M O I S T
(ft)	(/6")	(tsf)	(%)

TOPSOIL-black	641.69			37	CLAY LOAM-brown-very stiff to hard (continued)			
		3				4		
SILTY CLAY-dark brown & gray-stiff		3	1.80	30		4	2.00	19
		4	B			5	B	
	639.69							
CLAY LOAM-brown-very stiff to hard		3				4		
		3	2.10	17		5	2.00	14
		-5	B			7	P	
					617.69	-25		
		3			End Of Boring @ -25.0'. Boring backfilled with cuttings.			
		4	2.00	18				
		5	P					
		3						
		5	5.70	18				
	-10	12	B			-30		
becoming gray @ -10.5		4						
		5	4.20	19				
		7	B					
		3						
		5	3.00	21				
	-15	6	B			-35		
		2						
		4	2.80	19				
		5	B					
		3						
		3	2.20	14				
	-20	3	B			-40		

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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 FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 18 LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM,
Northing 1765731.808, Easting 1073974.385

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-064</u>	P	W	S	I	Groundwater Elev.: <u>-</u> ft	T	S	Q	S
Station <u>915+07</u>	H	S	Qu	T	First Encounter <u>630.296</u> ft▼	H	S	Qu	T
Offset <u>98.9 ft Left</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion <u>-</u> ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>641.30</u> ft					After <u>-</u> Hrs. <u>-</u> ft				

Soil Description	Depth (ft)	Blow Count (/6")	UCS (tsf)	Moisture (%)	Soil Description	Depth (ft)	Blow Count (/6")	UCS (tsf)	Moisture (%)	
TOPSOIL-black	640.30			31	CLAY LOAM-brown & gray-very stiff to hard (continued)					
SILTY CLAY-black-stiff	3					3				
	4	1.20	29			5	2.80	18		
	5	B				7	B			
	2					3				
	2	1.60	28			5	2.50	21		
	-5	2	B			5	B			
	635.80					616.30	-25			
CLAY LOAM-brown & gray-very stiff to hard						End Of Boring @ -25.0'. Boring backfilled with cuttings.				
	1									
	2	2.60	24							
	3	B								
	3									
	6	6.40	22							
	-10	8	B				-30			
	▼									
	3									
	6	5.30	22							
	7	B								
becoming gray @ -13.0										
	3									
	4	3.70	20							
	-15	7	B			-35				
	2									
	3	3.40	14							
	4	B								
	3									
	3	3.60	13							
	-20	4	B			-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
 Chicago Street to US

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY DJ

SECTION 18 LOCATION SE 1/4, SEC. 18, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765737.367, Easting 1074161.745

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-065</u>	P	O	S	I	Groundwater Elev.:	T	W	S	S
Station <u>916+95</u>	T	S	Qu	T	First Encounter <u>626.469</u> ft▼	H	S	Qu	T
Offset <u>98.6 ft Left</u>	H	S			Upon Completion _____ ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>639.97</u> ft	(ft)	(/6")	(tsf)	(%)	After <u>-</u> Hrs. _____ ft				

TOPSOIL-black 638.97				31	CLAY LOAM-brown & gray-stiff to hard (continued)				
CLAY LOAM with Stone-brown-very stiff (Fill)	2					3			
	3	2.90	17			2	1.10	20	
	6	B				4	B		
636.97									
ORGANIC SILTY CLAY-black-medium stiff	3					2			
	4	0.70	37			3	1.10	20	
	-5	7	B			4	B		
634.47					End Of Boring @ -25.0'. Boring backfilled with cuttings.				
CLAY LOAM-brown & gray-stiff to hard	2								
	2	1.90	23						
	4	B							
	3								
	4	4.00	18						
	-10	6	B						
	3								
	6	3.90	22						
	9	B							
becoming gray @ -13.0	4								
	6	3.60	20						
	-15	8	B						
	4								
	6	3.50	18						
	9	B							
	3								
	4	4.40	18						
	-20	6	B						

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



Geo Services, Inc.

Geotechnical, Environmental & Civil Engineering
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 (630) 355-2838

FAI Route 80 from
 Chicago Street to US

SOIL BORING LOG

Date 2/24/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765562.819, Easting 1074689.564

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-066</u>	P	O	S	I	Groundwater Elev.:	T	W	S	S
Station <u>922+04</u>	H	S	Qu	T	First Encounter <u>Dry</u> ft	H	S	Qu	T
Offset <u>105.9 ft Right</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion <u>Dry</u> ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>647.29</u> ft					After <u>-</u> Hrs. <u>-</u> ft				

CLAYEY TOPSOIL dark brown & black 646.29				27	CLAY LOAM-brown-very stiff to hard (continued)				
SILTY SAND & GRAVEL-brown-medium dense (Fill) 644.29	3			16		6			
	4					9	2.70	16	
	6					13	B		
CLAY LOAM-brown-very stiff to hard	3					5			
	4	3.50	17			8	4.00	13	
	-5	5	P		622.29	-25	13	P	
	6				End Of Boring @ -25.0'. Boring backfilled with cuttings.				
	9	4.50	19						
	9	P							
	6								
	7	4.00	18						
	-10	9	P			-30			
becoming gray @ -10.5	4								
	5	2.00	21						
	5	P							
	4								
	6	2.00	23						
	-15	6	P			-35			
	2								
	4	2.50	24						
	4	P							
	3								
	3	2.20	22						
	-20	5	B			-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



Geo Services, Inc.

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 (630) 355-2838
 FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765584.393, Easting 1074880.87

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-067
 Station 924+00
 Offset 105.5 ft Right
 Ground Surface Elev. 651.08 ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
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Surface Water Elev. n/a ft
 Stream Bed Elev. n/a ft
 Groundwater Elev.:
 First Encounter Dry ft
 Upon Completion Dry ft
 After - Hrs. - ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
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3.0" TOPSOIL-black	650.83				CLAY LOAM-gray-stiff to very stiff (continued)				
SANDY CLAY LOAM-dark brown-stiff (Fill)		3		41			4		
		3	1.00	21			5	1.00	16
		3	P				6	P	
	648.08								
SILTY CLAY LOAM-dark brown & gray-stiff (Fill)		3					4		
		1	1.00	32			5	2.00	17
		-5	2	P		626.08	-25	6	P
	645.58				End Of Boring @ -25.0'. Boring backfilled with cuttings.				
SILTY SAND & GRAVEL-brown-very loose to loose		1							
		2		22					
		1							
		2							
		2		25					
		-10	2				-30		
	640.58								
CLAY LOAM-gray-stiff to very stiff		3							
		4	1.50	20					
		5	P						
		4							
		6	2.50	19					
		-15	8	P			-35		
		7							
		7	2.50	21					
		9	P						
		5							
		5	3.50	19					
		-20	6	P			-40		

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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 Chicago Street to US
 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765621.413, Easting 1075085.689

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-068
 Station 926+00
 Offset 105.5 ft Right
 Ground Surface Elev. 651.60 ft

DEPTH TH (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST S (%)	Surface Water Elev.	ft	DEPTH TH (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST S (%)
				Stream Bed Elev.	ft				
				n/a					
				n/a					
				Dry					
				Dry					
				-					
5.0" TOPSOIL-black	651.18				631.10				
CLAY LOAM-brown-very stiff			34				3		
	4						3		19
	4	2.50	24				3		
	4	P							
	648.60				628.60				
SILTY SAND & GRAVEL-brown-very loose to loose							3		
	2						4	1.00	17
	3		23				4	P	
	-5	2			626.60	-25			
	2								
	1		25						
	1								
	0								
	0		24						
	-10	1				-30			
	641.10								
CLAY LOAM-gray-very stiff									
	4								
	5	3.50	20						
	8	P							
	638.60								
CLAYEY SAND & GRAVEL-gray-medium dense									
	5								
	11		6						
	-15	11				-35			
	636.10								
CLAY LOAM-gray-very stiff									
	4								
	6	3.50	16						
	9	P							
	5								
	7	3.00	20						
	-20	12	P			-40			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
Chicago Street to US
Route 30

SOIL BORING LOG

ROUTE _____ **DESCRIPTION** I-80 Phase II **LOGGED BY** TC

SECTION 17 **LOCATION** SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765670.783, Easting 1075287.966

COUNTY Will **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-069
Station 928+00
Offset 108.6 ft Right
Ground Surface Elev. 651.29 **ft**

D E P T H S	B L O W S	U C S Qu	M O I S T
(ft)	(/6")	(tsf)	(%)

Surface Water Elev. n/a **ft**
Stream Bed Elev. n/a **ft**
Groundwater Elev.:
First Encounter Dry **ft**
Upon Completion Dry **ft**
After - **Hrs.** - **ft**

D E P T H	B L O W S	U C S Qu	M O I S T
(ft)	(/6")	(tsf)	(%)

6.0" TOPSOIL-black	650.79				630.79			
SILTY CLAY LOAM-dark brown, gray & black-stiff		3		59		6		
		3	1.20	30		8	2.50	19
		4	B			12	P	
	648.29							
CLAY LOAM-brown & gray-stiff		4				4		
		4	1.50	18		5	2.00	13
		-5	P		626.29	6	P	
	645.79							
SILTY GRAVEL-brown-dense		3						
		5		7				
		29						
	643.29							
SILTY CLAY LOAM-gray-stiff		3						
		3	1.00	20				
		4	P					
	640.79	-10				-30		
CLAY LOAM-gray-stiff		2						
		5	1.00	21				
		5	P					
		4						
		4	2.00	23				
		-15	P			-35		
		3						
		4	1.80	22				
		7	B					
	633.29							
SILT-gray-very loose		1						
		1		19				
		-20				-40		

End Of Boring @ -25.0'. Boring backfilled with cuttings.

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765727.109, Easting 1075485.234

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-070
 Station 930+00
 Offset 108.6 ft Right
 Ground Surface Elev. 653.53 ft

DEPTH TH (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)
---------------------	--------------------	--------------------	-------------------

Surface Water Elev. n/a ft
 Stream Bed Elev. n/a ft
 Groundwater Elev.:
 First Encounter 635.032 ft▼
 Upon Completion 635.532 ft▼
 After - Hrs. - ft

DEPTH TH (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)
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6.0" TOPSOIL-black	653.03				CLAY LOAM-brown-very stiff (continued)			
GRAVEL & STONE-brown & black-loose (Fill)		4		34		3		
		3		24		5	2.50	19
		4				7	P	
	650.53							
CLAY LOAM-brown-very stiff		4				3		
		5	2.00	30		5	2.50	18
		-5	6	P		6	P	
					628.53	-25		
					End Of Boring @ -25.0'. Boring backfilled with cuttings.			
		3						
		3	2.50	6				
		5	P					
		5						
		6	2.10	16				
		-10	7	B		-30		
becoming gray @ -8.0'								
		3						
		3	2.00	15				
		6	P					
		3						
		4	2.00	19				
		-15	6	P		-35		
		4						
		5	2.00	19				
		7	P					
		3						
		4	2.00	17				
		-20	5	P		-40		

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765780.838, Easting 1075683.535

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-071
 Station 932+00
 Offset 123.2 ft Right
 Ground Surface Elev. 655.52 ft

DEPTH THS (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)	Surface Water Elev.	ft	DEPTH THS (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)
				Stream Bed Elev.	ft				
				n/a					
				n/a					
				Groundwater Elev.:					
				First Encounter	<u>634.523</u>	ft▼			
				Upon Completion		ft			
				After - Hrs.		ft			
6.0" TOPSOIL-black	655.02			CLAY LOAM-brown & gray-stiff to					
			32	very stiff (continued)	<u>634.52</u> ▼				
CLAY LOAM-dark brown & gray		3					4		
spotted-very stiff (Fill)		3	2.00	SILTY SAND &			6		12
		4	P	GRAVEL-gray-medium dense			13		
	652.52				<u>632.52</u>				
CLAY LOAM-brown & gray-stiff to				CLAY LOAM-gray-very stiff			6		
very stiff		2					6	2.00	17
		2	1.50				5	P	
		-5	P		<u>630.52</u>	-25			
				End Of Boring @ -25.0'. Boring					
				backfilled with cuttings.					
		4							
		4	3.50						
		9	P						
		4							
		5	3.50						
	-10	7	P	becoming gray @ -10.5'					
		5							
		9	2.50						
		14	P						
		4							
		5	3.50						
	-15	10	P						-35
		3							
		4	2.00						
		8	P						
		3							
		6	3.00						
	-20	7	P						-40

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765838.698, Easting 1075883.259

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-072
 Station 934+00
 Offset 145.4 ft Right
 Ground Surface Elev. 659.61 ft

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 (ft) (/6") (tsf) (%)

Surface Water Elev. n/a ft
 Stream Bed Elev. n/a ft
 Groundwater Elev.:
 First Encounter 651.112 ft▼
 Upon Completion ft
 After - Hrs. - ft

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 (ft) (/6") (tsf) (%)

6.0" TOPSOIL-black	659.11				CLAY LOAM-brown-very stiff to hard (continued)				
SILTY CLAY-dark brown-stiff				35					
		3					8		
		4	1.50	28			9	3.50	15
		5	P				10	P	
		7					9		
		10	1.50	24			11	3.00	17
		-5	8	P		634.61	-25	14	P
	654.11				End Of Boring @ -25.0'. Boring backfilled with cuttings.				
CLAY LOAM-brown-very stiff to hard		4							
		7	3.00	16					
		7	P						
		4							
		5	4.00	18					
		-10	7	P			-30		
		5							
		7	2.00	19					
		13	B						
becoming gray @ -13.0'		5							
		6	2.00	18					
		-15	9	P			-35		
		8							
		7	2.50	18					
		8	P						
		4							
		6	2.00	22					
		-20	6	P			-40		

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1765995.4, Easting 1076036.1

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-073A
 Station 936+00
 Offset 70.2 ft Right
 Ground Surface Elev. 649.40 ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. <u>n/a</u> ft	Stream Bed Elev. <u>n/a</u> ft	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
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8.0" TOPSOIL-black	648.73								
CLAY LOAM-brown-very stiff			25						
		3					3		
		3	2.50	24			4	3.00	14
		5	P				6	P	
		5					3		
		6	2.50	21			5	2.50	15
		-5	7	P			6	P	
					624.40	-25			
					End Of Boring @ -25.0'. Boring backfilled with cuttings.				
		4							
		6	2.50	17					
		8	P						
		5							
		6	3.00	18					
		-10	9	P					
		5							
		7	2.20	16					
		10	B						
becoming gray @ -13.0'		5							
		5	2.00	18					
		-15	12	B					
		4							
		4	2.00	17					
		9	P						
		5							
		5	2.00	18					
		-20	8	P					

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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 Route 30

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1766093.455, Easting 1076217.16

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>-</u>	D	B	U	M	Surface Water Elev. <u>n/a</u> ft	D	B	U	M
Station <u>-</u>	E	L	C	O	Stream Bed Elev. <u>n/a</u> ft	E	L	C	O
BORING NO. <u>NWB-074A</u>	P	O	S	I	Groundwater Elev.:	T	W	S	S
Station <u>938+02</u>	H	S	Qu	T	First Encounter <u>Dry</u> ft	H	S	Qu	T
Offset <u>70.2 ft Right</u>	(ft)	(/6")	(tsf)	(%)	Upon Completion <u>Dry</u> ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>647.07</u> ft					After <u>-</u> Hrs. <u>-</u> ft				

DEPTH (ft)	SOIL DESCRIPTION	UCS (tsf)	MOIST (%)	DEPTH (ft)	SOIL DESCRIPTION	UCS (tsf)	MOIST (%)	
645.99	13.0" CONCRETE				SILTY CLAY-dark gray to gray-medium stiff to stiff (continued)			
	CRUSHED STONE-dense	21	7			2		
		25				1	0.50	36
644.07		4		624.07		2		
	CLAY LOAM-brown-very stiff (Fill)				SILTY CLAY LOAM-gray-very stiff			
		6				5		
		6	3.10			5	2.00	24
		-5	B	622.07		6	P	
	becoming gray @ -5.5'				End Of Boring @ -25.0'. Boring backfilled with cuttings.			
		4						
		7	2.75					
		7	P					
		3						
		3	2.00					
636.57		-10	P	-30				
	CRUSHED STONE-brown & gray-very dense							
		14						
		26	7					
		50/2"						
		17						
		50/5"	8					
631.57		-15		-35				
	SILTY CLAY-dark gray to gray-medium stiff to stiff							
		3						
		4	1.50					
		5	P					
		3						
		2	1.00					
		2	P					
		-20		-40				

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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FAI Route 80 from
Chicago Street to US
Route 30

ROCK CORE LOG

Date 3/1/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,
Northing 1766196.618, Easting 1076386.226

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-075A Core Diameter 2 in
Station 939+96 Top of Rock Elev. 640.27 ft
Offset 70.2 ft Right Begin Core Elev. 640.27 ft

Ground Surface Elev. 644.27 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-4.0' to -14.0')	640.27	1	100	4		320.00
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE						
Light gray to gray & porous with horizontal to wavy bedding. Weathered with rust staining to -5.0'. Highly fractured throughout.						
	-5					
	-10					
	630.27					

End Of Boring @ -14.0'. Boring backfilled with cuttings.						
End of Boring	-15					
	-20					

Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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FAI Route 80 from
 Chicago Street to US
 Route 30

ROCK CORE LOG

Date 3/1/22

ROUTE _____ DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,
Northing 1766196.618, Easting 1076386.226

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
 Station -

BORING NO. NWB-075A Core Diameter 2 in
 Station 939+96 Top of Rock Elev. 640.27 ft
 Offset 70.2 ft Right Begin Core Elev. 640.27 ft
 Ground Surface Elev. 644.27 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



Geo Services, Inc.

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FAI Route 80 from
 Chicago Street to US

SOIL BORING LOG

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,

Northing 1766256.3, Easting 1076598.9

COUNTY Will DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-076
 Station 942+00
 Offset 141.1 ft Right
 Ground Surface Elev. 655.70 ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
-------------------------------	--------------------------------	----------------------------	------------------------------

Surface Water Elev. n/a ft
 Stream Bed Elev. n/a ft
 Groundwater Elev.:
 First Encounter Dry ft
 Upon Completion ft
 After - Hrs. - ft

12.0" TOPSOIL-black	654.70	HA		38
CLAY LOAM-brown & gray spotted black-very stiff (Fill)	653.70	HA	3.00	16
SILTY SAND & GRAVEL-brown (Fill)	651.70	HA	P	9
CLAY LOAM-brown spotted black-stiff (Fill)	649.70	HA	1.00 P	6
CLAY LOAM-brown-hard	645.70	HA	4.50 P	20
		HA	4.50 P	17
Auger Refusal @ -10.0'. End Of Boring.	-10			
	-15			
	-20			

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



Geo Services, Inc.

Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

FAI Route 80 from
Chicago Street to US
Route 30

ROCK CORE LOG

Page 1 of 1

Date 3/1/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,
Northing 1766309.787, Easting 1076553.735

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-076A Core Diameter 2 in
Station 941+95 Top of Rock Elev. 636.57 ft
Offset 71.3 ft Right Begin Core Elev. 635.57 ft
Ground Surface Elev. 640.57 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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FAI Route 80 from
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Route 30

ROCK CORE LOG

Page 1 of 1

Date 3/2/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SW 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,
Northing 1766431.141, Easting 1076710.879

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-077A Core Diameter 2 in
Station 943+90 Top of Rock Elev. 632.75 ft
Offset 70 ft Right Begin Core Elev. 632.25 ft
Ground Surface Elev. 636.25 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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FAI Route 80 from
 Chicago Street to US
 Route 30

SOIL BORING LOG

ROUTE DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SE 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,

 Northing 1766518.382, Easting 1076919.99

COUNTY Will DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
 Station -

BORING NO. NWB-078
 Station 946+00
 Offset 139 ft Right
 Ground Surface Elev. 656.20 ft

DEPTH T H S (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
------------------------	--------------------------------	----------------------------	------------------------------

Surface Water Elev. n/a ft
 Stream Bed Elev. n/a ft
 Groundwater Elev.:
 First Encounter Dry ft
 Upon Completion ft
 After - Hrs. - ft

6.0" TOPSOIL-black	655.70	HA		31
CLAY LOAM-brown-stiff to hard		HA		
			2.00	19
			P	
		HA		
			2.50	19
			P	
		HA		
	-5		4.50	20
			P	
		HA		
			1.50	13
			P	
		HA		
			3.00	14
			P	
	646.20			
	-10			

Auger Refusal @ -10.0'. End Of Boring.

-15

-20

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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FAI Route 80 from
Chicago Street to US
Route 30

ROCK CORE LOG

Page 1 of 1

Date 3/3/22

ROUTE Chicago Street to US Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SE 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM, Northing 1766522.793, Easting 1076819.589

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

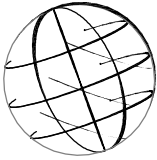
BORING NO. NWB-078A Core Diameter 2 in
Station 945+30 Top of Rock Elev. 627.48 ft
Offset 69.3 ft Right Begin Core Elev. 640.58 ft
Ground Surface Elev. 633.98 ft



Color pictures of the cores Yes

Cores will be stored for examination until 5 yrs after const.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



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FAI Route 80 from
Chicago Street to US
Route 30

SOIL BORING LOG

Page 1 of 1

Date 3/3/22

ROUTE Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SE 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,

Nothing 1766647.529, Easting 1076965.806

COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-079A
Station 947+18
Offset 75.3 ft Right
Ground Surface Elev. 633.33 ft

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B
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M
O
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S
T

(ft) (/6") (tsf) (%)

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After - Hrs. - ft

15.0" CONCRETE

632.08

CRUSHED STONE-dense

14

16

17

6

629.33

10

Borehole continued with rock coring.

50/2"

-5

-10

-15

-20

SOIL BORING 20012_LOG.GPJ IL_DOT.GDT 1/3/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



Geo Services, Inc.

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FAI Route 80 from
Chicago Street to US
Route 30

ROCK CORE LOG

Page 1 of 1

Date 3/3/22

ROUTE Chicago Street to US Route 30 DESCRIPTION I-80 Phase II LOGGED BY TC

SECTION 17 LOCATION SE 1/4, SEC. 17, TWP. T35N, RNG. R11E, 3rd PM,
Northing 1766647.529, Easting 1076965.806

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. - CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station -

BORING NO. NWB-079A Core Diameter 2 in
Station 947+18 Top of Rock Elev. 628.68 ft
Offset 75.3 ft Right Begin Core Elev. 629.33 ft
Ground Surface Elev. 633.33 ft



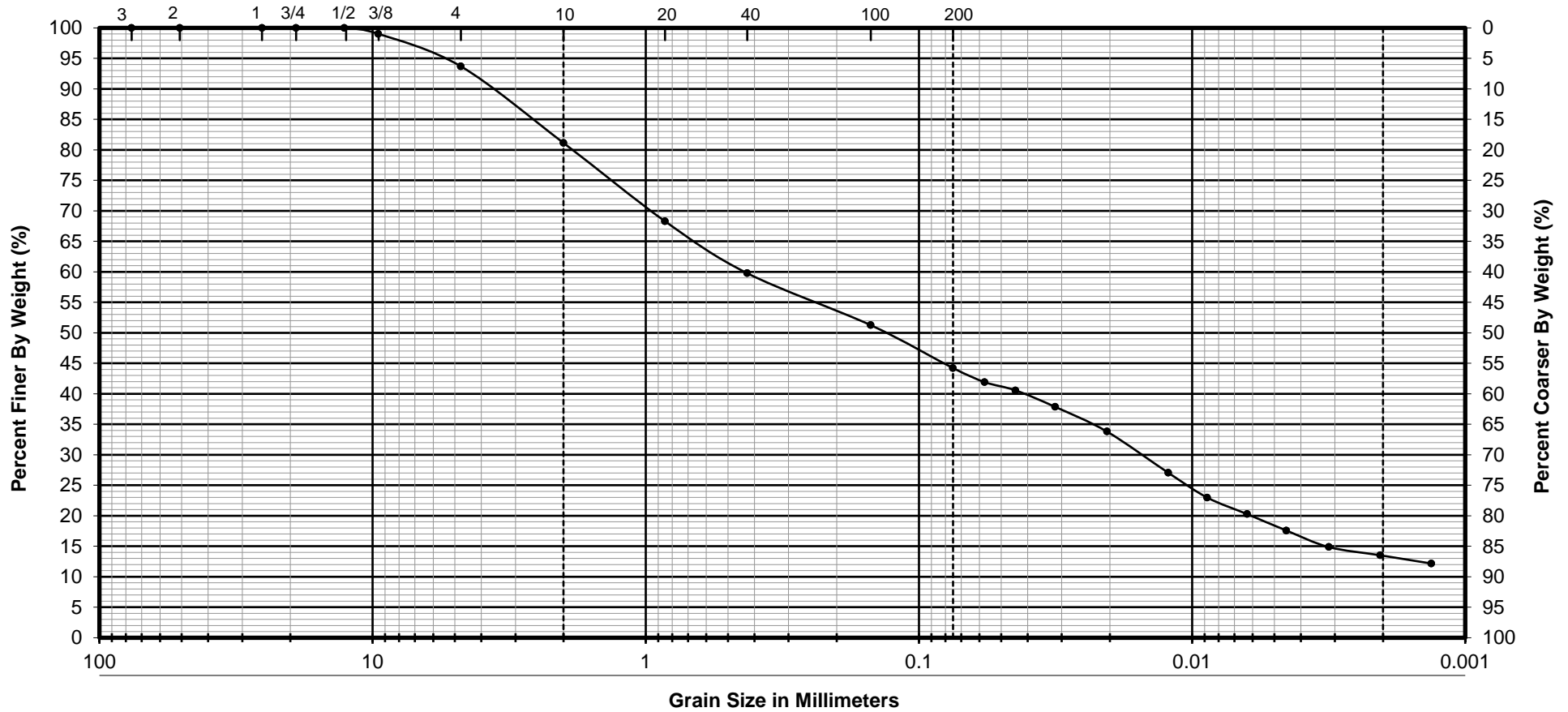
Color pictures of the cores Yes


Cores will be stored for examination until 5 yrs after const.

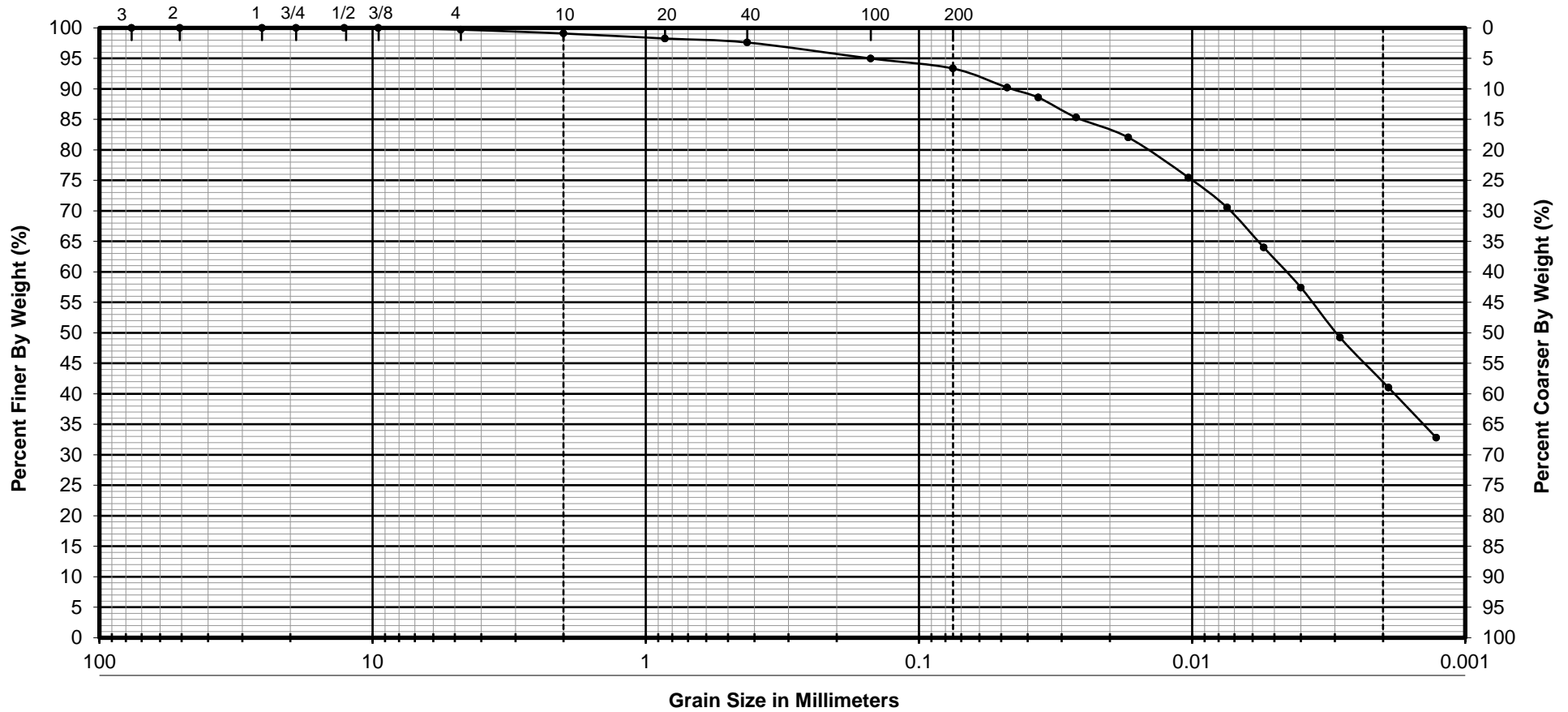
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

APPENDIX -


...O " k-oy Qo

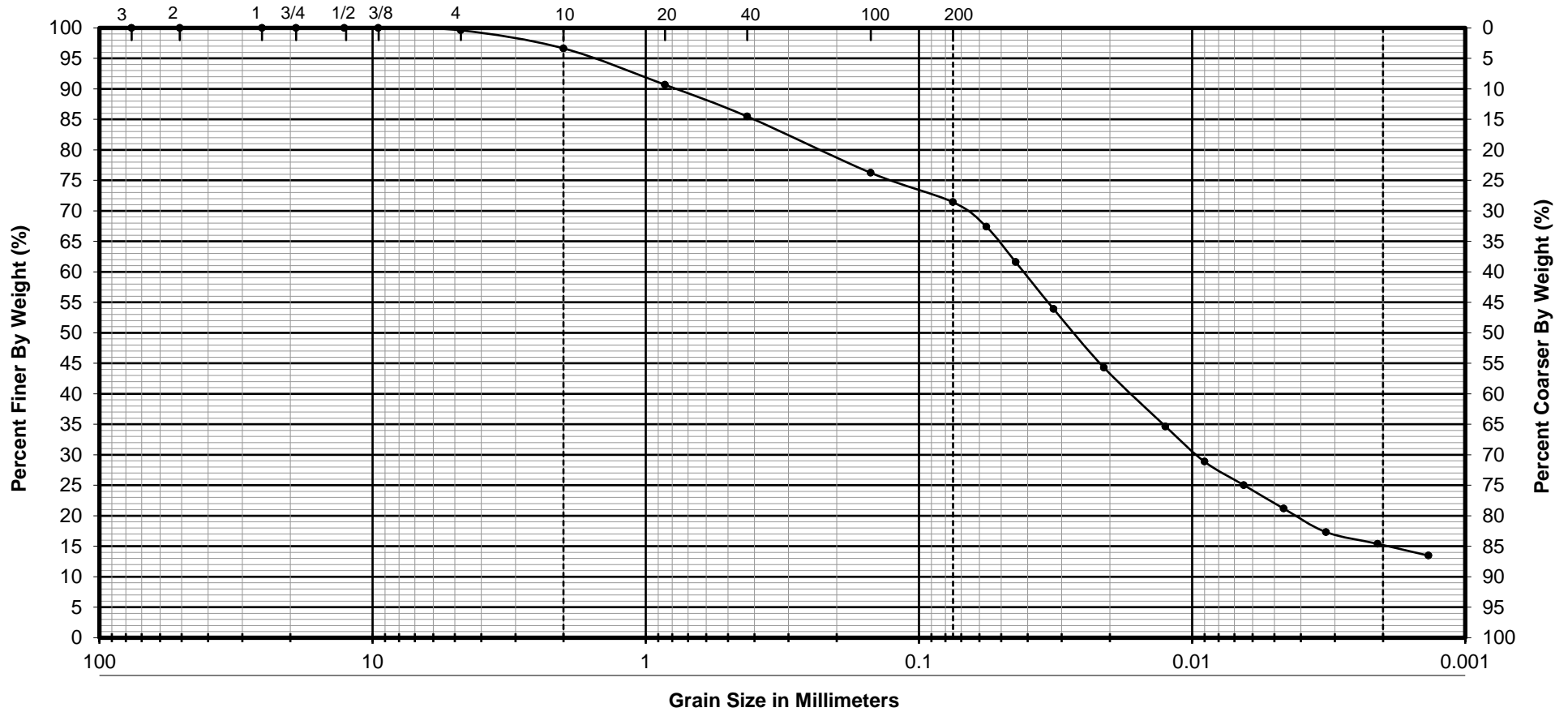


Boring No.	NWB-08	CLASSIFICATION	PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	5	SANDY LOAM A-4 brown/gray Group Index 0 % Gravel 18.9 % Sand 36.9 % Silt 30.7 % Clay 13.5	Proposed Retaining Wall No. 1 N of W.B I-80 and East of Gardner St Will County, Illinois  Geo Services, Inc. Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm 1235 E. Davis St., Arlington Heights, IL 60005 Phone 847-253-3845 • Fax 847-253-0482
Depth	8.5'-10.0'		
Liquid Limit	18		
Plastic Limit	15		
Plasticity Index	3		
Test By	MT		
Date	4/21/22		
Reviewed By	RS		
Job No	20012		




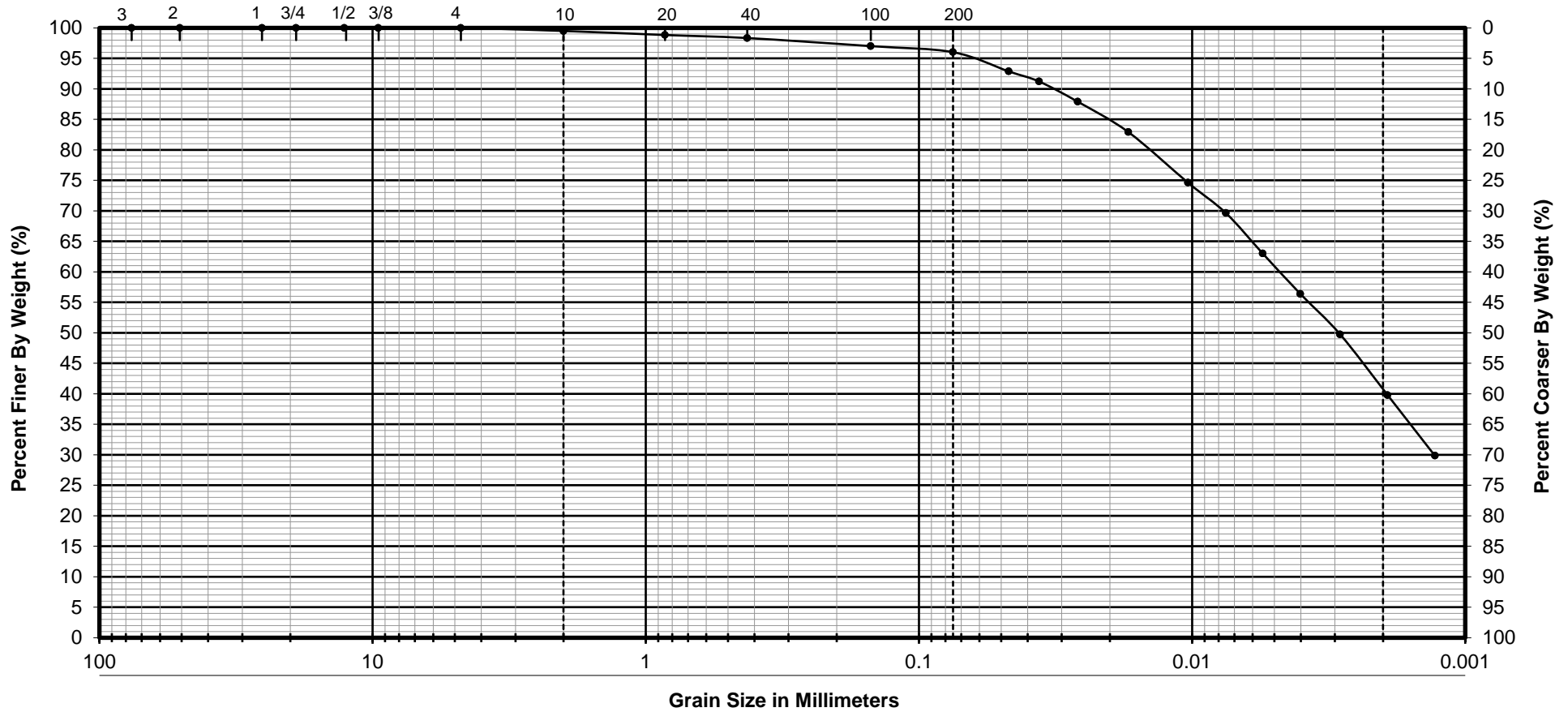
GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-18A	CLASSIFICATION	PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3	<p style="text-align: center;">SILTY CLAY A-6 brown/gray</p> <p>Group Index 15</p> <p>% Gravel 0.9</p> <p>% Sand 5.7</p> <p>% Silt 52.3</p> <p>% Clay 41.0</p>	<p style="text-align: center;">Proposed Retaining Wall No. 1 N of W.B I-80 and East of Gardner St Will County, Illinois</p> <p style="text-align: center;"> Geo Services, Inc. Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm</p> <p>1235 E. Davis St., Arlington Heights, IL 60005 Phone 847-253-3845 • Fax 847-253-0482</p>
Depth	3.5'-5.0'		
Liquid Limit	36		
Plastic Limit	20		
Plasticity Index	16		
Test By	MT		
Date	4/21/22		
Reviewed By	RS		
Job No	20012		




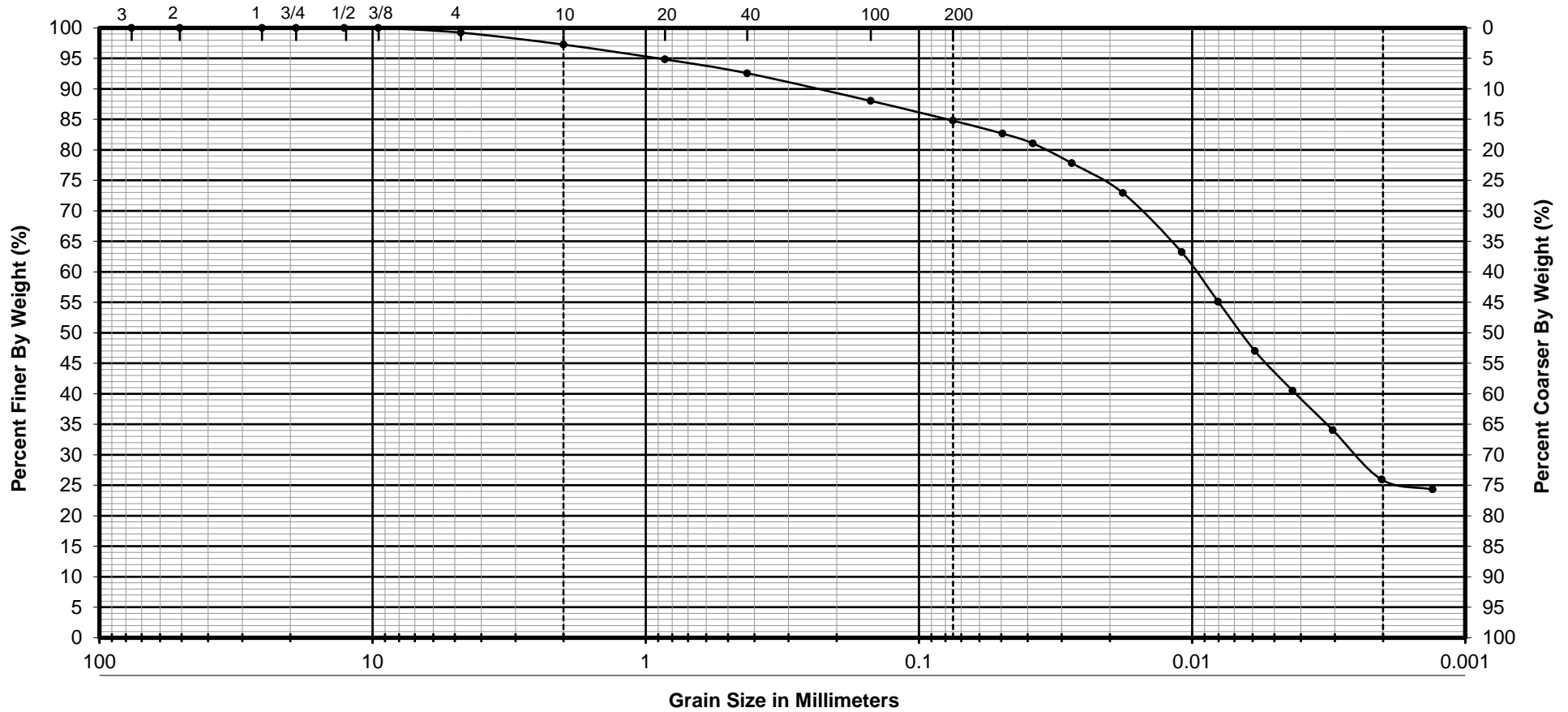
GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-25A	CLASSIFICATION	PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	1	SILTY LOAM A-7 brown/black Group Index 9 % Gravel 3.4 % Sand 25.2 % Silt 56.0 % Clay 15.4	Proposed Retaining Wall No. 1 N of W.B I-80 and East of Gardner St Will County, Illinois  Geo Services, Inc. Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm 1235 E. Davis St., Arlington Heights, IL 60005 Phone 847-253-3845 • Fax 847-253-0482
Depth	0-2.0		
Liquid Limit	47		
Plastic Limit	36		
Plasticity Index	11		
Test By	MT		
Date	4/21/22		
Reviewed By	RS		
Job No	20012		



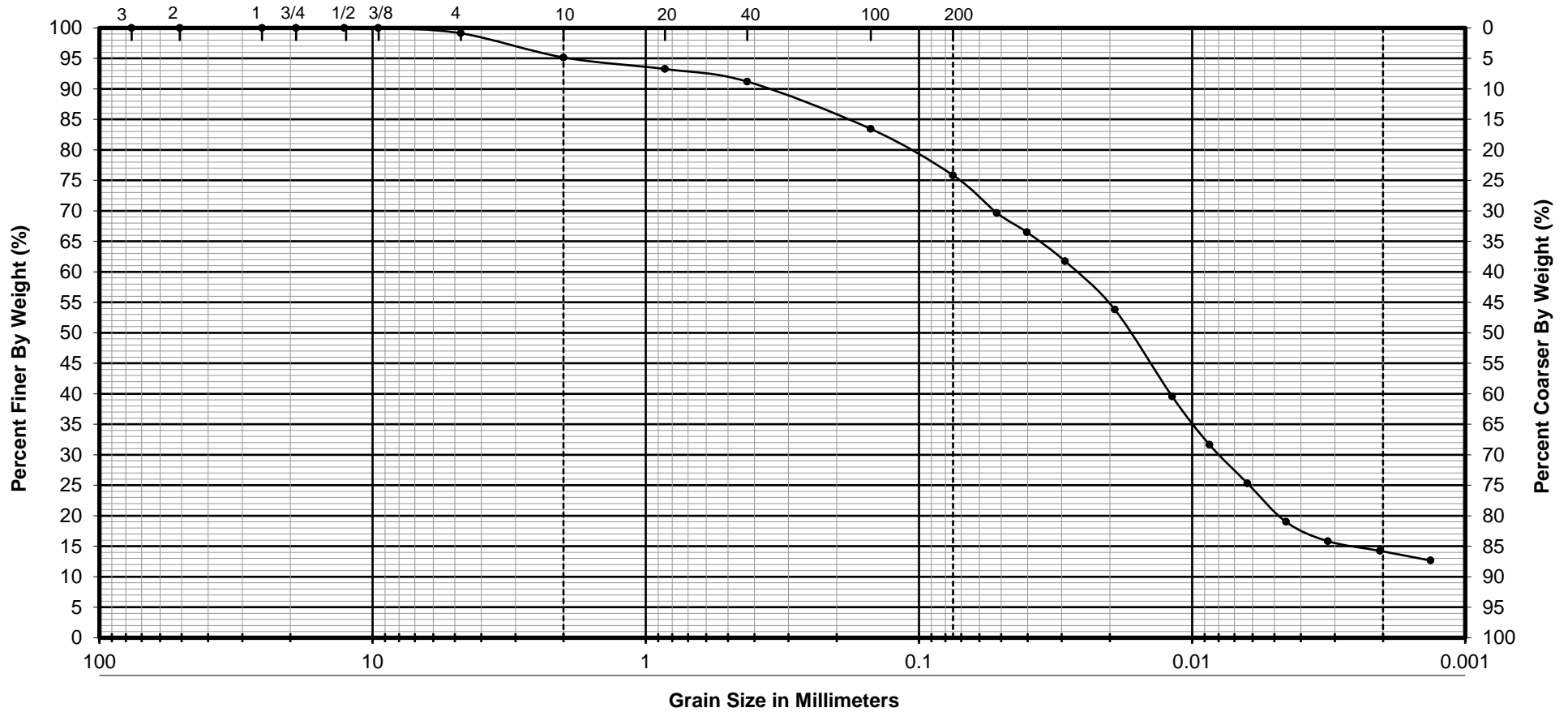
GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-45	CLASSIFICATION	PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	1	<p style="text-align: center;">SILTY CLAY A-6 gray</p> <p>Group Index 12</p> <p>% Gravel 0.5</p> <p>% Sand 3.5</p> <p>% Silt 56.2</p> <p>% Clay 39.8</p>	<p style="text-align: center;">Proposed Retaining Wall No. 1 N of W.B I-80 and East of Gardner St Will County, Illinois</p> <p style="text-align: center;"> Geo Services, Inc. Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm</p> <p>1235 E. Davis St., Arlington Heights, IL 60005 Phone 847-253-3845 • Fax 847-253-0482</p>
Depth	1.0'-2.5'		
Liquid Limit	30		
Plastic Limit	17		
Plasticity Index	13		
Test By	MT		
Date	4/21/22		
Reviewed By	RS		
Job No	20012		




GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-65	CLASSIFICATION	PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	2	SILTY CLAY LOAM A-6 brown/gray Group Index 8 % Gravel 2.7 % Sand 12.5 % Silt 58.8 % Clay 25.9	Proposed Retaining Wall No. 1 N of W.B I-80 and East of Gardner St Will County, Illinois Geo Services, Inc. <small>Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm</small> 1235 E. Davis St., Arlington Heights, IL 60005 Phone 847-253-3845 • Fax 847-253-0482
Depth	1.0'-2.5'		
Liquid Limit	28		
Plastic Limit	17		
Plasticity Index	11		
Test By	MT		
Date	4/21/22		
Reviewed By	RS		
Job No	20012		



GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-75A	CLASSIFICATION	PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3	SILTY LOAM A-6 brown/gray Group Index 14 % Gravel 4.8 % Sand 19.3 % Silt 61.6 % Clay 14.3	Proposed Retaining Wall No. 1 N of W.B I-80 and East of Gardner St Will County, Illinois  Geo Services, Inc. Geotechnical, Environmental and Civil Engineering An MBE - DBE Firm 1235 E. Davis St., Arlington Heights, IL 60005 Phone 847-253-3845 • Fax 847-253-0482
Depth	3.5'-5.0'		
Liquid Limit	40		
Plastic Limit	21		
Plasticity Index	19		
Test By	MT		
Date	4/21/22		
Reviewed By	RS		
Job No	20012		

Liquid Limit, Plastic Limit, and Plasticity Index of Soils
 AASHTO T89/T90

Project Name I-80 Phase II: Proposed Briggs St Bridge

Job No 20012

Location Will County, Illinois

Date 5/6/22

Client EXP

Boring No.	NWB-08	NWB-018A	NWB-025	NWB-045	NWB-065	NWB-075	NWB-078A	
Sample No.	5	3	1	2	2	3	3	
Depth	8.5'-10.0'	3.5'-5.0'	0-2.0'	1.0'-2.5'	1.0'-2.5'	3.5'-5.0'	3.5'-5.0'	
LIQUID LIMIT (LL)	18	36	47	30	28	40	16	
PLASTIC LIMIT (PL)	15	20	36	17	17	21	15	
PLASTICITY INDEX (PI)	3	16	11	13	11	19	1	

Tested by MT/VH