GEOTECHNICAL REPORT

I-80 Noise Walls

IDOT Job No. D-91-205-19

New Lenox, Will County, IL

Prepared for:

EXP US Services Inc.
205 North Michigan Avenue
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Chicago, Illinois 60601

Prepared by:

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JOB NO. 20012

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

Geo Services, Inc.
Geotechnical, Environmental and Civil Engineering
An MBE - DBE Firm

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

ANDREW J. PTAK
062-052031
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PROFESSIONAL
ENGINEER
STATE OF ILLINOIS

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

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

Cohesive Soils

Consistency	Unconfined Compressive Strength - qu (tsf)
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

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.

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:	Carboloy 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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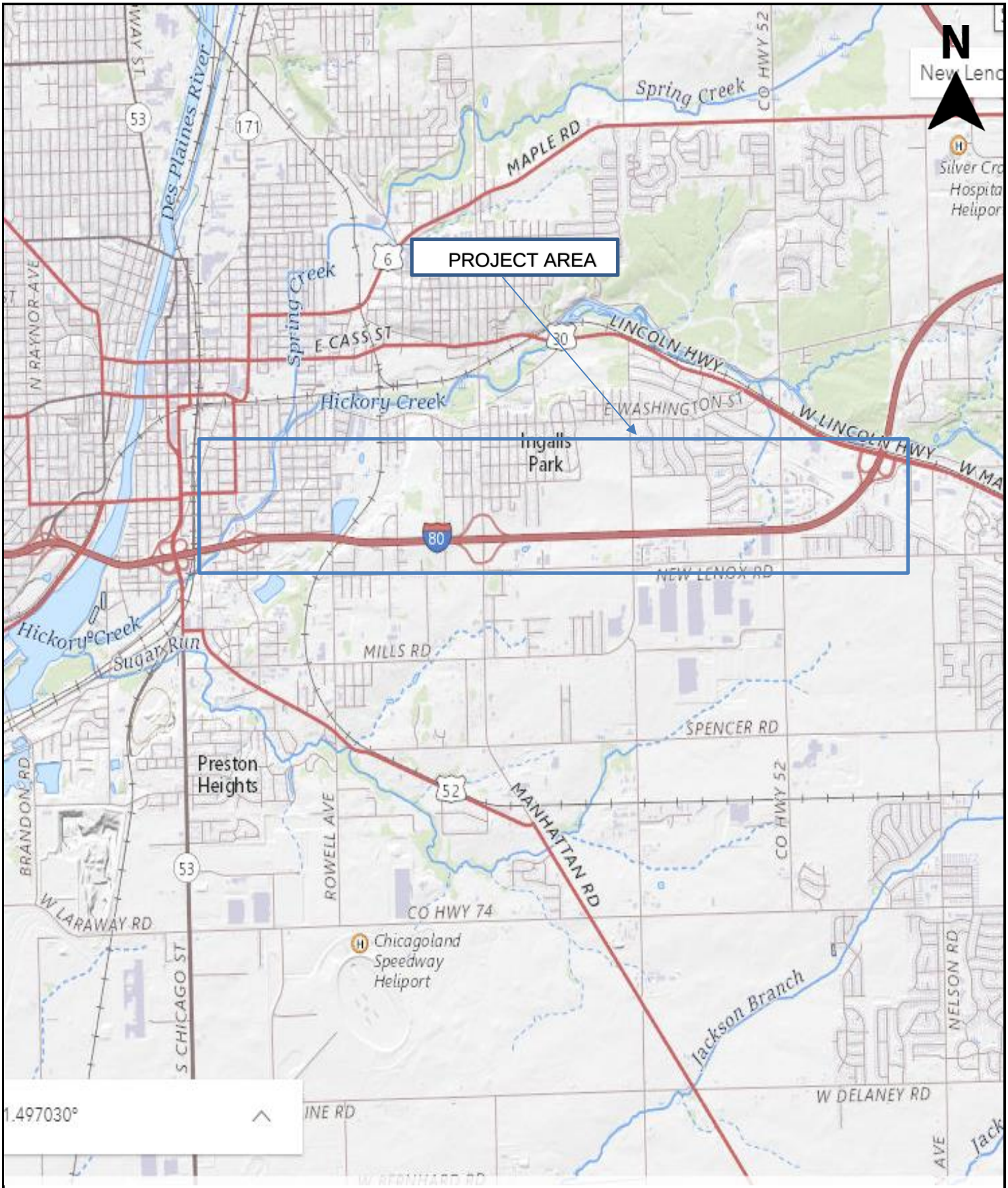
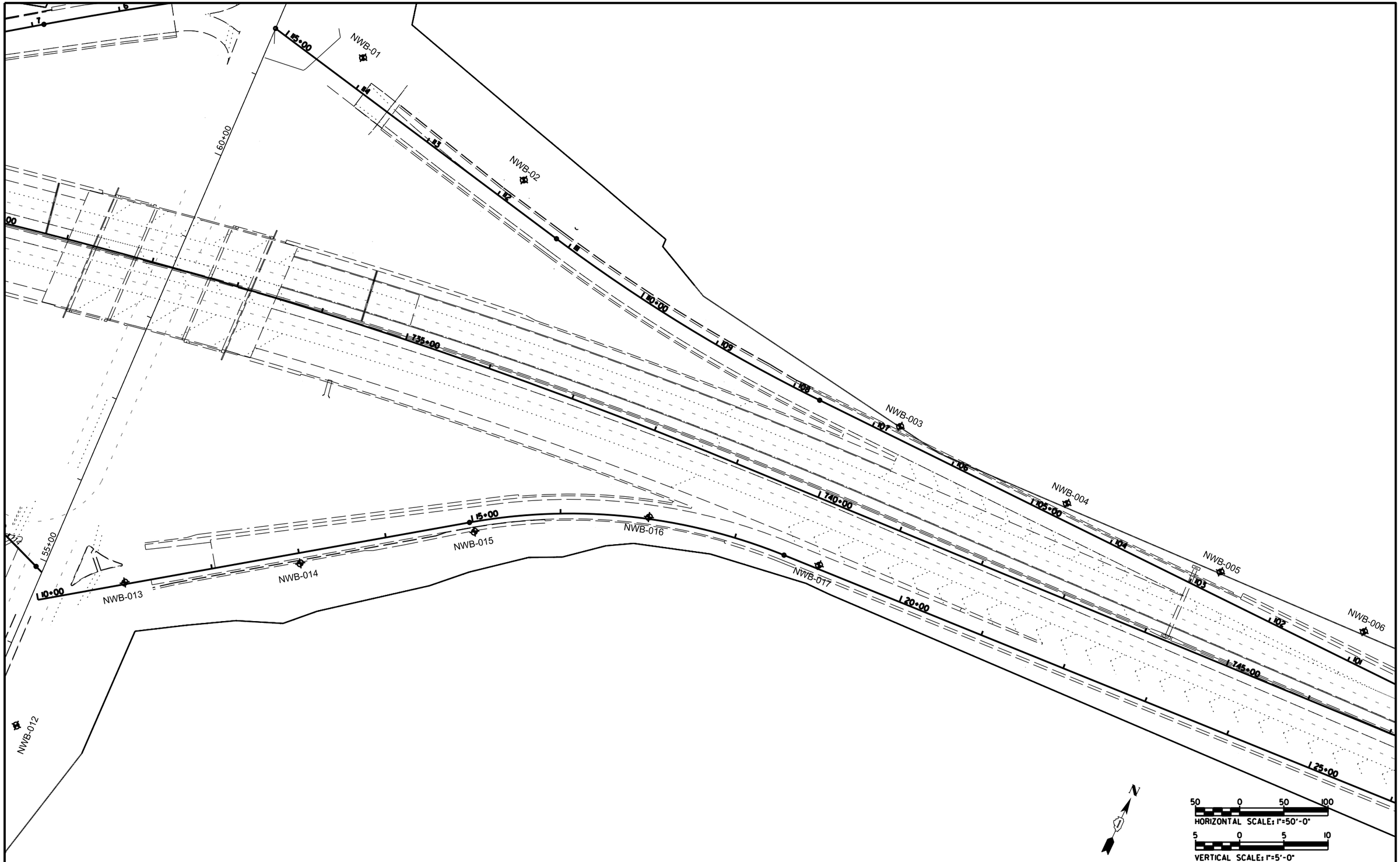


SITE MAP IL 60/83 Noise Walls, Interstate-80, Joliet, IL 60433	**Geo Services, Inc.** Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838	DRAWN BY	NA
		APPROVED BY	AP
		DATE	November 14, 2022
		GSI JOB No.	20012
		SCALE	NTS

APPENDIX C

PLAN & PROFILE



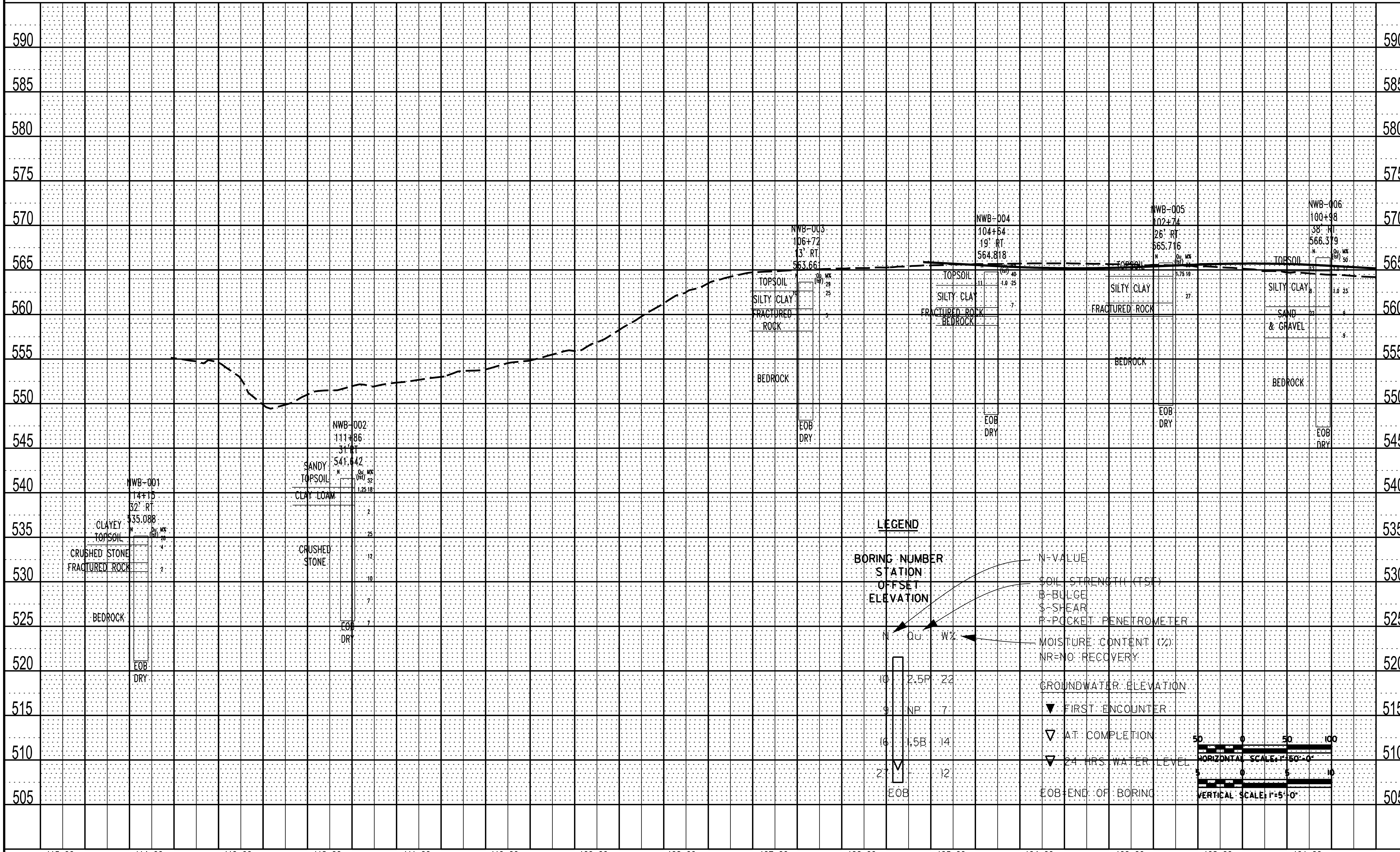
Geo Services, Inc. — Geotechnical, Environmental, Civil Engineering and Electrical Services — An MBE · DBE Firm	USER NAME = $USER$	DESIGNED - ___	REVISED -
		DRAWN - FF	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED -
	PLOT DATE = $DATE$	DATE - 12/07/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: ____ | SHEET NO. 1 OF 14 SHEETS | STA. ____ TO STA. ____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14	1
			CONTRACT NO.	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		


590
585
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575
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565
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545
540
535
530
525
520
515
510
505
NWB-001
114+15
32' RT
535.088
CLAYEY TOPSOIL
CRUSHED STONE
FRACTURED ROCK
BEDROCK
EOB
DRY
NWB-002
111+86
31' RT
541.642
SANDY TOPSOIL
CLAY LOAM
CRUSHED STONE
EOB
DRY
NWB-003
106+72
13' RT
563.661
TOPSOIL
SILTY CLAY
FRACTURED ROCK
BEDROCK
EOB
DRY
NWB-004
104+64
19' RT
564.818
TOPSOIL
SILTY CLAY
FRACTURED ROCK
BEDROCK
EOB
DRY
NWB-005
102+74
26' RT
565.716
TOPSOIL
SILTY CLAY
FRACTURED ROCK
BEDROCK
EOB
DRY
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100+98
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566.379
TOPSOIL
SILTY CLAY
SAND & GRAVEL
BEDROCK
EOB
DRY
LEGEND
BORING NUMBER
STATION
OFFSET
ELEVATION
N-VALUE
SOIL STRENGTH (TSF)
B-BULGE
S-SHEAR
P-POCKET PENETROMETER
N Qu W%
MOISTURE CONTENT (%)
NR=NO RECOVERY
10 2.5P 22
9 NP 7
16 1.5B 14
27 - 12
EOB
GROUNDWATER ELEVATION
FIRST ENCOUNTER
AT COMPLETION
24 HRS WATER LEVEL
EOB=END OF BORING
HORIZONTAL SCALE: 1"=50'-0"
VERTICAL SCALE: 1"=5'-0"
115+00
114+00
113+00
112+00
111+00
110+00
109+00
108+00
107+00
106+00
105+00
104+00
103+00
102+00
101+00

PLAN — NOTE BOOK NO. — SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.T. OF WAY CHECKED / CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CHK'D — BY — DATE

Geo Services, Inc. Geotechnical, Environmental, Civil Engineering and Electrical Services. An MBE - DBE Firm

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN - FF	REVISED -
PLOT SCALE = $SCALE$	CHECKED - AJP	REVISED -
PLOT DATE = $DATE$	DATE - 12/08/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: HORIZ. VERT. STA. 115+00 TO STA. 101+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14	02
		ILLINOIS	CONTRACT NO.	

PLAN

SURVEYED
PLOTTED
ALIGNMENT CHECKED
R/T. OF WAY CHECKED
CADD FILE NAME

NOTE BOOK
NO.

BY DATE

PROFILE

SURVEYED
PLOTTED
DESIGN CHECKED
S.M. NOTED
STRUCTURE NOTATNS CHKD

NOTE BOOK
NO.

BY DATE

620 615 610 605 600 595 590 585 580 575 570 565 560 555 550 545 540 535

NWB-012
10+00
138' RT
556.0
ASPHALT
CRUSHED STONE
BEDROCK
EOB
DRY

NWB-013
11+00
2' LT
549.0
ASPHALT
CLAY LOAM
FRACTURED ROCK
BEROCK
EOB
DRY

NWB-014
12+99
11' RT
553.7
ASPHALT
CRUSHED ASPHALT
CRUSHED STONE
BEDROCK
EOB

NWB-015
15+00
11' RT
555.7
ASPHALT
CRUSHED STONE
BEDROCK
EOB
DRY

NWB-016
17+00
2' LT
558.6
ASPHALT
CRUSHED STONE
BEDROCK
EOB
DRY

NWB-017
19+00
4' LT
560.8
ASPHALT
CRUSHED ASPHALT
BEDROCK
EOB
DRY

HORIZONTAL SCALE: 1"=50'-0"
VERTICAL SCALE: 1"=5'-0"

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00

Geo Services, Inc.
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An MBE / DBE Firm

USER NAME = $USER$	DESIGNED - ___	REVISED -	
	DRAWN - FF	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - AJP	REVISED -	
PLOT DATE = $DATE$	DATE - 12/07/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: HORIZ. _____ VERT. _____ STA. 10+00 TO STA. 23+00

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

PLAN
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ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
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DATE

PROFILE
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STRUCTURE NOTATNS CHKD
NOTE BOOK
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DATE

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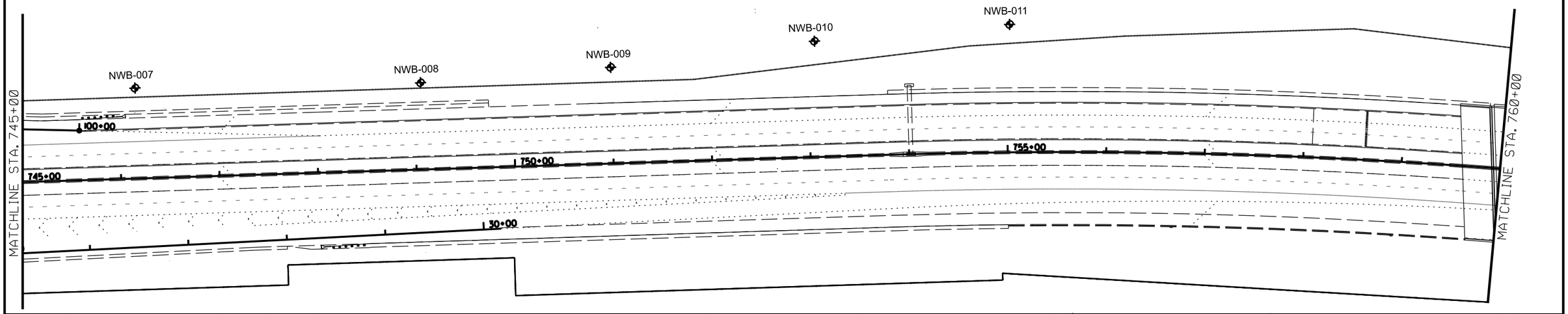
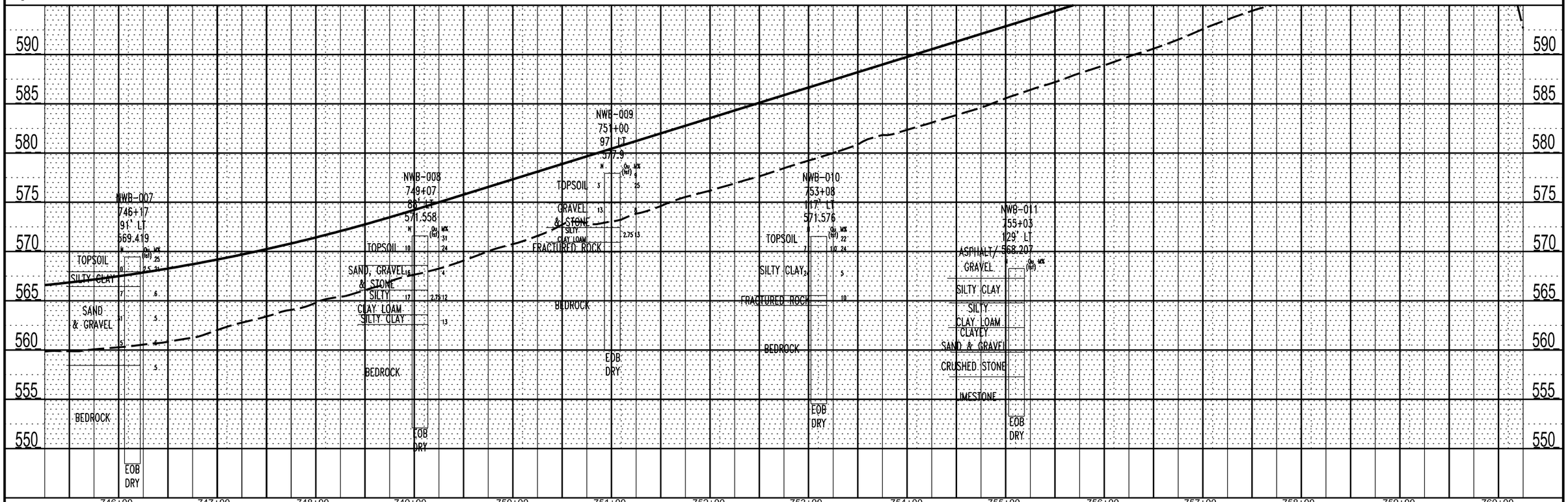
HORIZONTAL SCALE: 1"=50'-0"

VERTICAL SCALE: 1"=5'-0"





Geo Services, Inc.
Geotechnical, Environmental, Civil Engineering and Electrical Services
An MBE - DBE Firm

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	CHECKED -	REVISED -
PLOT SCALE = $SCALE$	DRAWN - FF	REVISED -
PLOT DATE = 12/13/2022	CHECKED - AJP	REVISED -

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 4 OF 14 | STA. 746+00 TO STA. 760+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14	4

CONTRACT NO.

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

PLAN

DATE	BY	
		SURVEYED
		PLOTTED
		ALIGNMENT CHECKED
		RELIMINARY APPROVED
		CADD FILE NAME

NOTE BOOK
NO.

PROFILE

DATE	BY	
		SURVEYED
		PLOTTED
		GRADES CHECKED
		ALIGNMENT APPROVED
		STRUCTURE NO(S).ANS CHKD

NOTE BOOK
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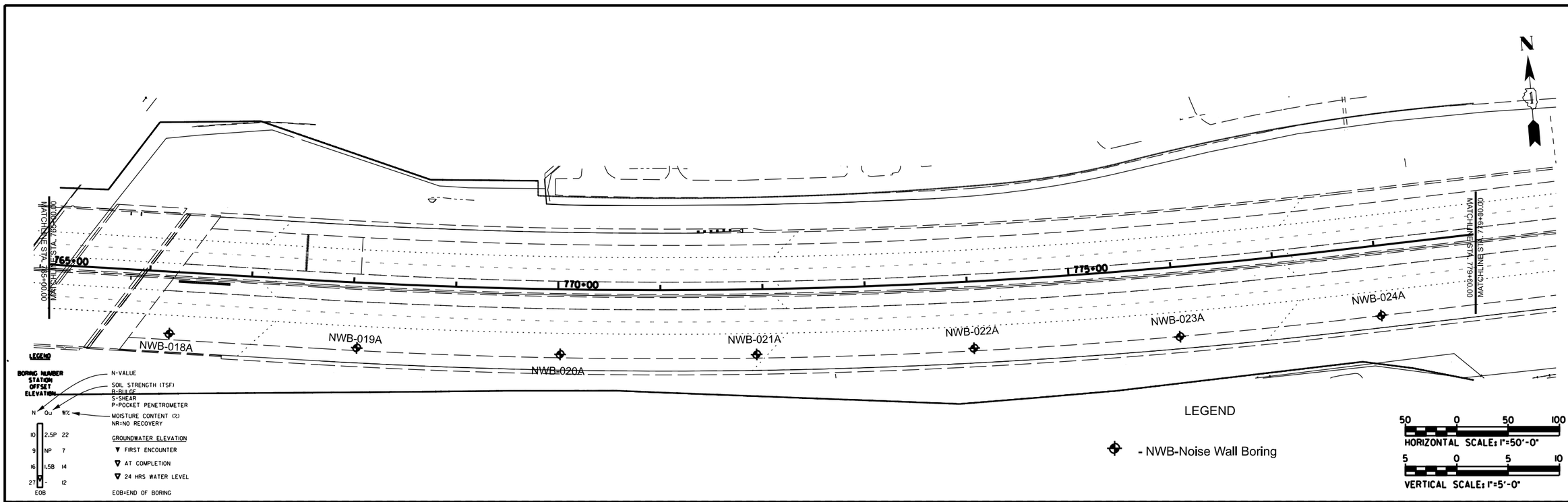

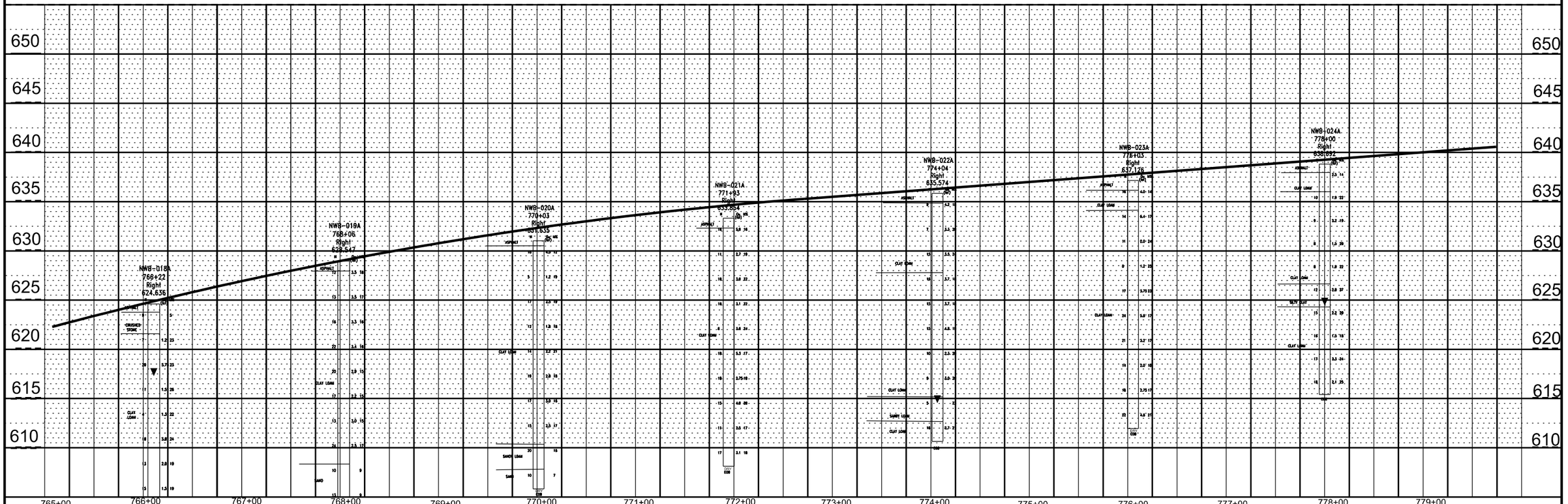

FILE NAME = $FILE$

Geo Services, Inc.
Geotechnical, Environmental and Civil Engineering
An MBE - DBE Firm

USER NAME = $USER$	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = $SCALE$	DRAWN - SG	REVISED - FF	
PLOT DATE = $DATE$	CHECKED - AJP	REVISED -	

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 5 OF 14 | STA. 765+00 TO STA. 779+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14	5

CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

PLAN

DATE	BY	
		SURVEYED
		PLOTTED
		ALIGNMENT CHECKED
		RELIMINARY REVIEWED
		CADD FILE NAME

NOTE BOOK
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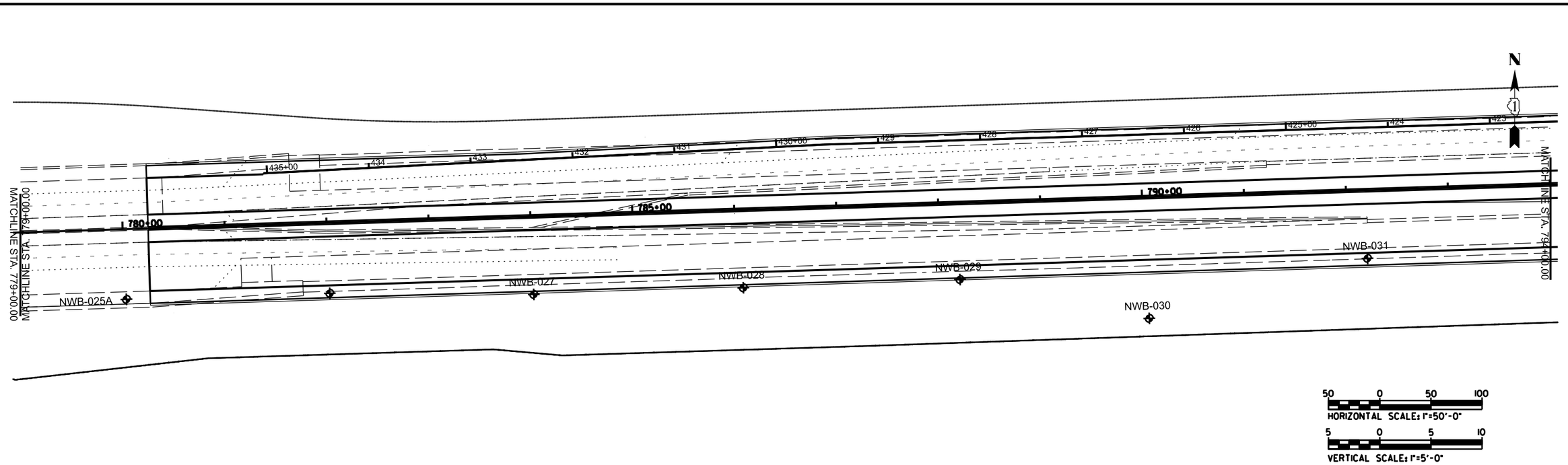
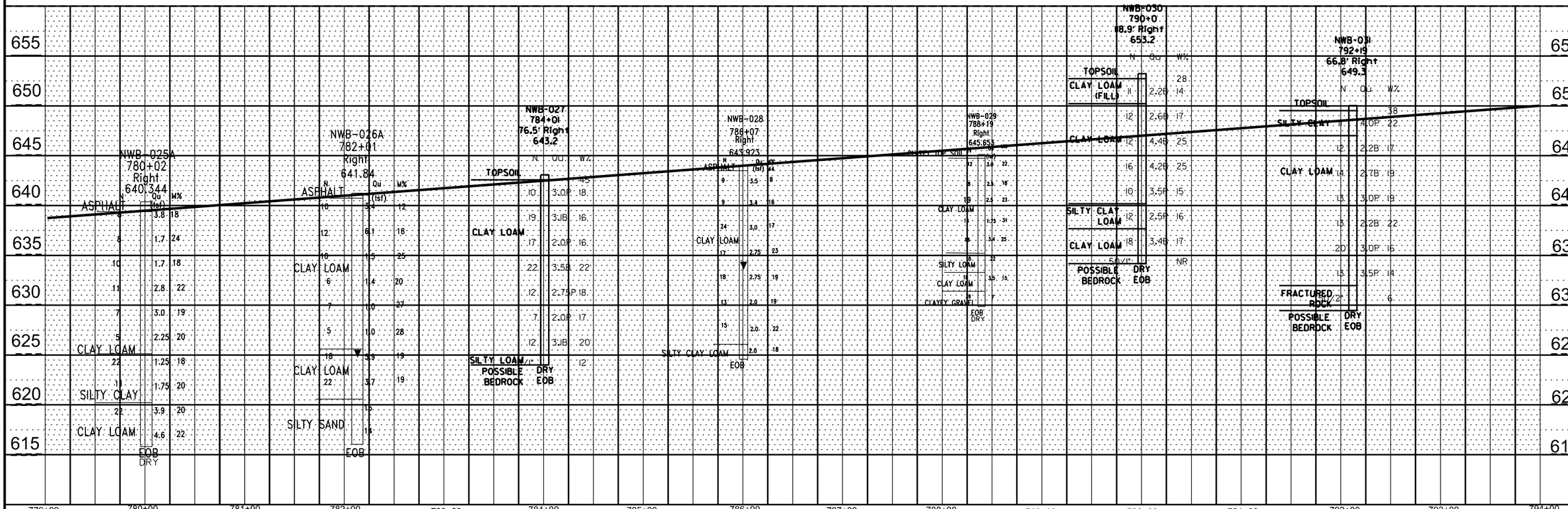


PROFILE

DATE	BY	
		SURVEYED
		PLOTTED
		GRADES CHECKED
		RELIMINARY REVIEWED
		STRUCTURE NOTATNS CHKD

NOTE BOOK
NO.



FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
Geo Services, Inc. Geotechnical, Environmental and Civil Engineering		CHECKED -	REVISED -
	PLOT SCALE = $SCALE$	DRAWN -	REVISED - FF
	PLOT DATE = $DATE$	CHECKED - AJP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

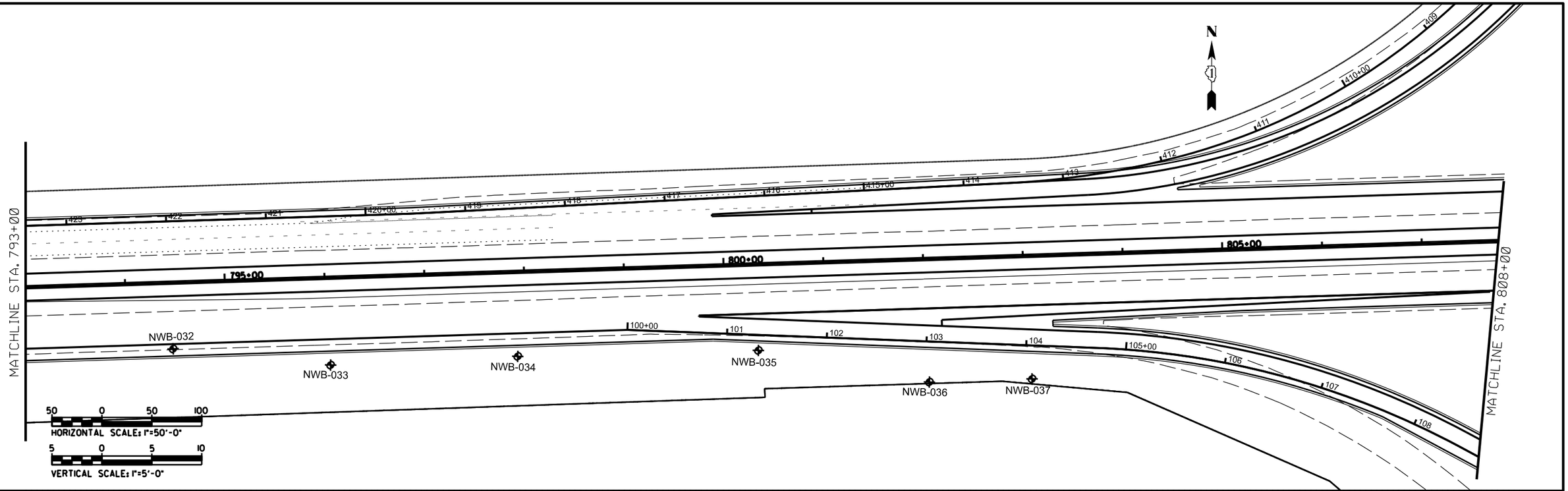
I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

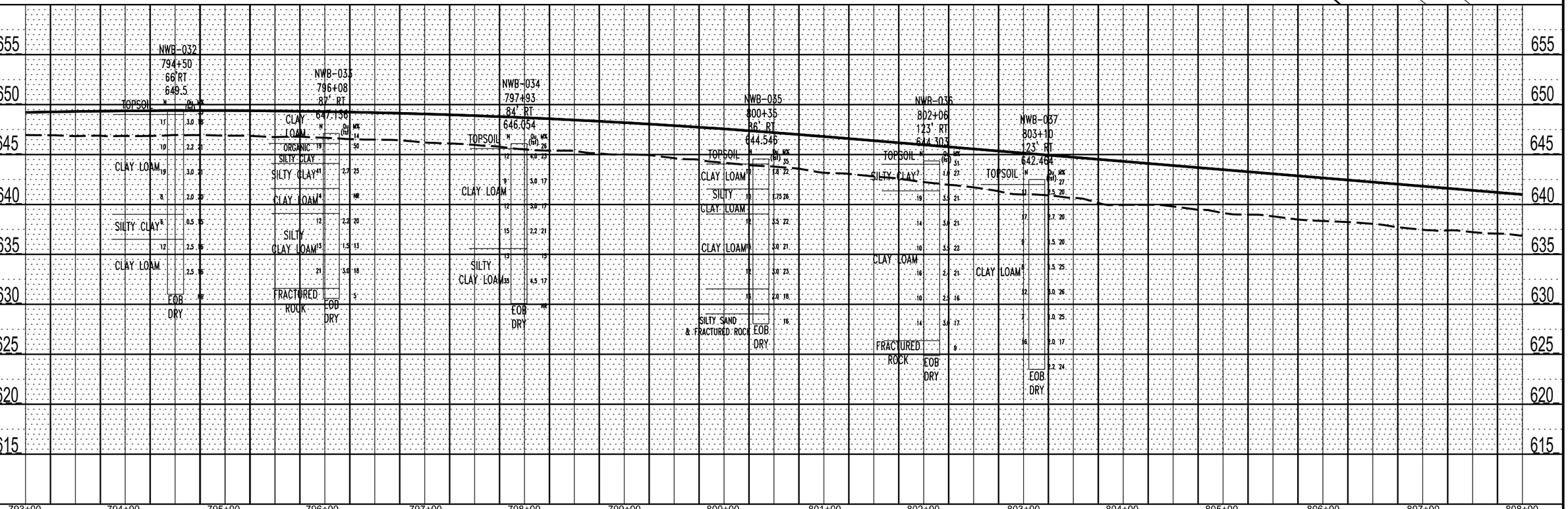
SCALE: | SHEET 6 OF 14 | STA. 779+00 TO STA. 794+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14	6
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
DESIGN CHECKED
BM. NOTED
STRUCTURE NO'S CHKD
NOTE BOOK
NO.
BY
DATE





Geo Services, Inc.
Geotechnical, Environmental, Civil Engineering and Electrical Services
An MBE - DBE Firm

USER NAME = $USER$	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = $SCALE$	DRAWN - FF	REVISED -
PLOT DATE = 12/14/2022	CHECKED - AJP	REVISED -

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 7 OF 14 | STA. 793+00 TO STA. 808+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14	7
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
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NOTE BOOK
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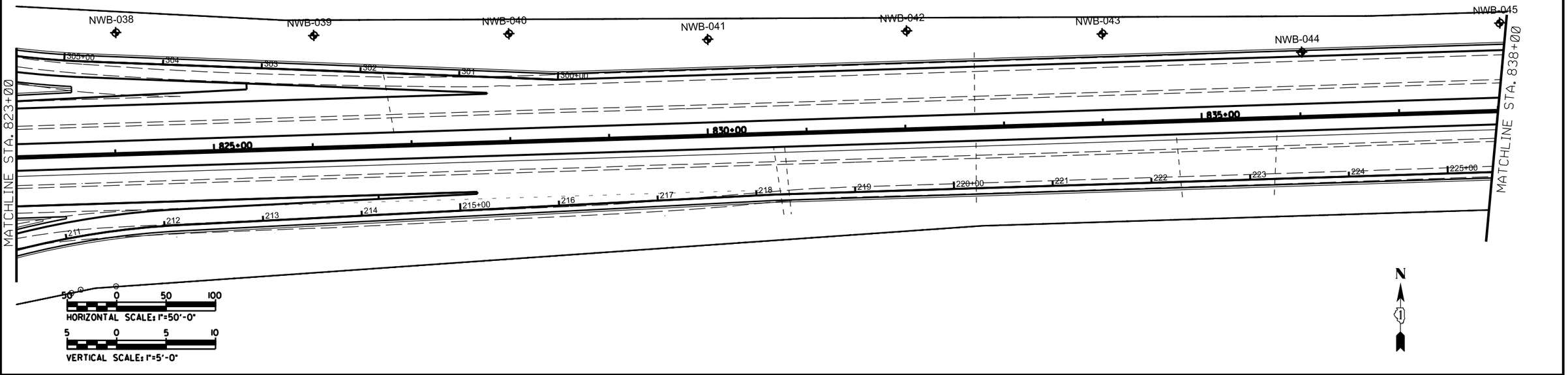
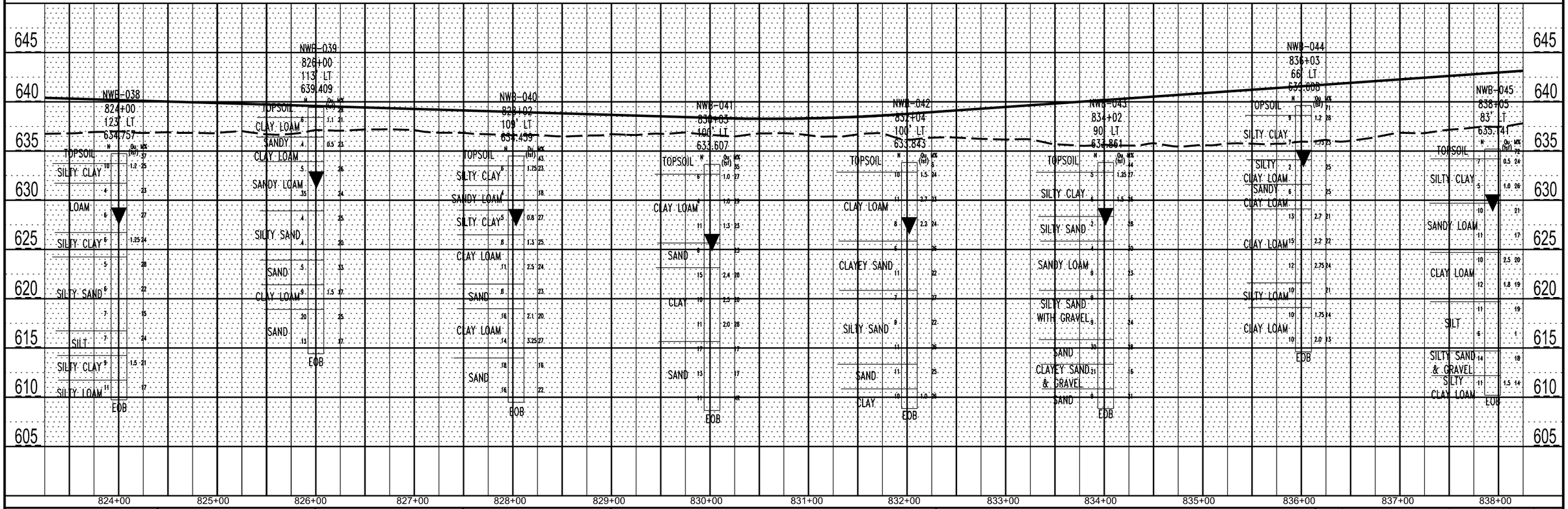
BY
DATE





Geo Services, Inc.
Geotechnical, Environmental, Civil Engineering and Electrical Services
An MBE - DBE Firm

USER NAME = $USER$	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = $SCALE$	DRAWN - FF	REVISED -
PLOT DATE = 12/14/2022	CHECKED - AJP	REVISED -

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 8 OF 14 | STA. 823+00 TO STA. 838+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14	8
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
NOTE BOOK
RT. OF WAY CHECKED
NO.
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS SECS CHECKED
NOTE BOOK
B.M. NOTED
NO.
STRUCTURE NOTATNS CHKD
BY
DATE

MATCHLINE STA. 854+00

L 855+00

L 860+00

L 865+00

MATCHLINE STA. 868+00

NWB-046

NWB-047

NWB-048

NWB-049

NWB-050

50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

5 0 5 10
VERTICAL SCALE: 1"=5'-0"

N

NWB-046
856+50
98' RT
646.834

NWB-047
858+53
93' RT
645.352

NWB-048
860+59
97' RT
644.935

NWB-049
862+46
97' RT
644.841

NWB-050
864+55
96' RT
643.66

TOPSOIL
CLAY LOAM
SILTY CLAY
EOB
SILT
SILTY LOAM

650 645 640 635 630 625 620 615 610

854+00 855+00 856+00 857+00 858+00 859+00 860+00 861+00 862+00 863+00 864+00 865+00 866+00 867+00 868+00

Geo Services, Inc.
Geotechnical, Environmental, Civil Engineering and Electrical Services
An MBE - DBE Firm

USER NAME = $USER$	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = $SCALE$	DRAWN - FF	REVISED -
PLOT DATE = 12/13/2022	CHECKED - AJP	REVISED -

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 9 OF 14 | STA. 854+00 TO STA. 868+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14	9

CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

PLAN	DATE
SURVEYED	
PLOTTED	
CROSS CHECKED	
BM. NOTED	
STRUCTURE NOTATNS CHKD	
NOTE BOOK NO.	

MATCHLINE STA. 888+00

MATCHLINE STA. 902+00

NWB-051

NWB-052

NWB-053

NWB-054

NWB-055

NWB-056

NWB-057

L 890+00

L 895+00

L 900+00

50 0 50 100

HORIZONTAL SCALE: 1"=50'-0"

5 0 5 10

VERTICAL SCALE: 1"=5'-0"

N

PROFILE	DATE
SURVEYED	
PLOTTED	
CROSS CHECKED	
BM. NOTED	
STRUCTURE NOTATNS CHKD	
NOTE BOOK NO.	

NWB-051
889+00
85' LT
654.017

NWB-052
891+05
88' LT
652.344

NWB-053
893+04
86' LT
650.774

NWB-054
895+00
87' LT
649.618

NWB-055
897+00
90' LT
649.05

NWB-056
899+03
89' LT
649.337

NWB-057
901+06
91' LT
649.439

TOPSOIL
CLAY LOAM
SILT
SILTY CLAY
COBBLES & BOULDERS
EOB
DRY

660 655 650 645 640 635 630 625 620

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

Geo Services, Inc.
Geotechnical, Environmental, Civil Engineering and Electrical Services
An MBE - DBE Firm

USER NAME = $USER$	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = $SCALE$	DRAWN - FF	REVISED -	
PLOT DATE = 12/13/2022	CHECKED - AJP	REVISED -	

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 10 OF 14 | STA. 888+00 TO STA. 902+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14	10
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN

DATE	BY	
		SURVEYED
		PLOTTED
		ALIGNMENT CHECKED
		GRADES CHECKED
		AS-BUILT REVISED
		STRUCTURE NO(S)/NS CK'KD

NOTE BOOK
NO.

PROFILE

DATE	BY	
		SURVEYED
		PLOTTED
		GRADES CHECKED
		AS-BUILT REVISED
		STRUCTURE NO(S)/NS CK'KD

NOTE BOOK
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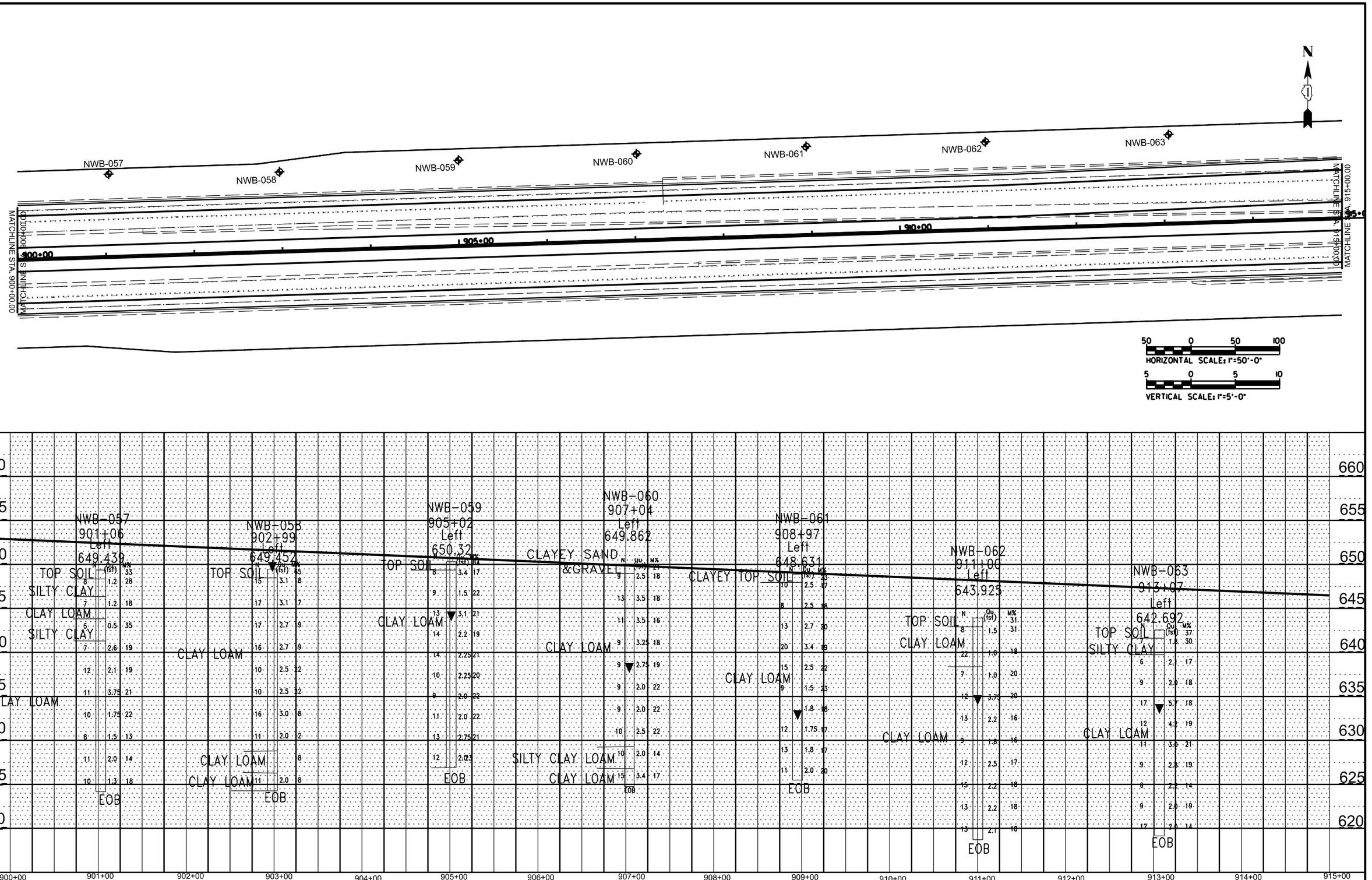


FILE NAME = $FILE$

Geo Services, Inc.
Geotechnical, Environmental and Civil Engineering
An MBE - DBE Firm

USER NAME = $USER$	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = $SCALE$	DRAWN -	REVISED - FF
PLOT DATE = $DATE$	CHECKED - AJP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

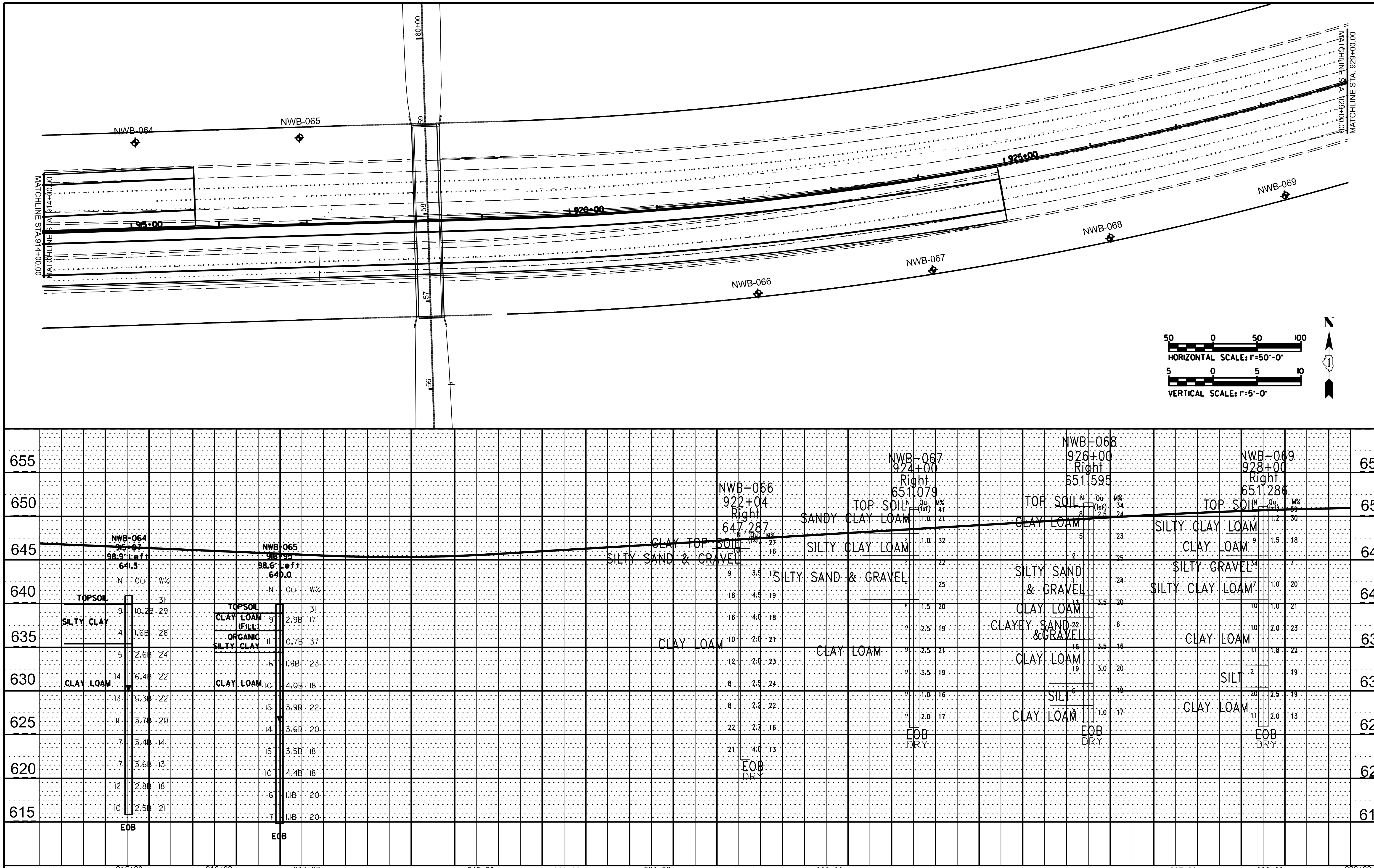
I-80 FROM RIDGE ROAD TO US ROUTE 30
PREFERRED LONG-TERM IMPROVEMENT PLAN
PLAN AND PROFILE

SCALE: | SHEET 11 OF 14 | STA. 900+00 TO STA. 915+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14	11

CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



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		CHECKED -	REVISED -
	PLOT SCALE = $SCALE$	DRAWN -	REVISED - FF
	PLOT DATE = $DATE$	CHECKED - AJP	REVISED -

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 12 OF 14 STA. 914+00 TO STA. 929+00

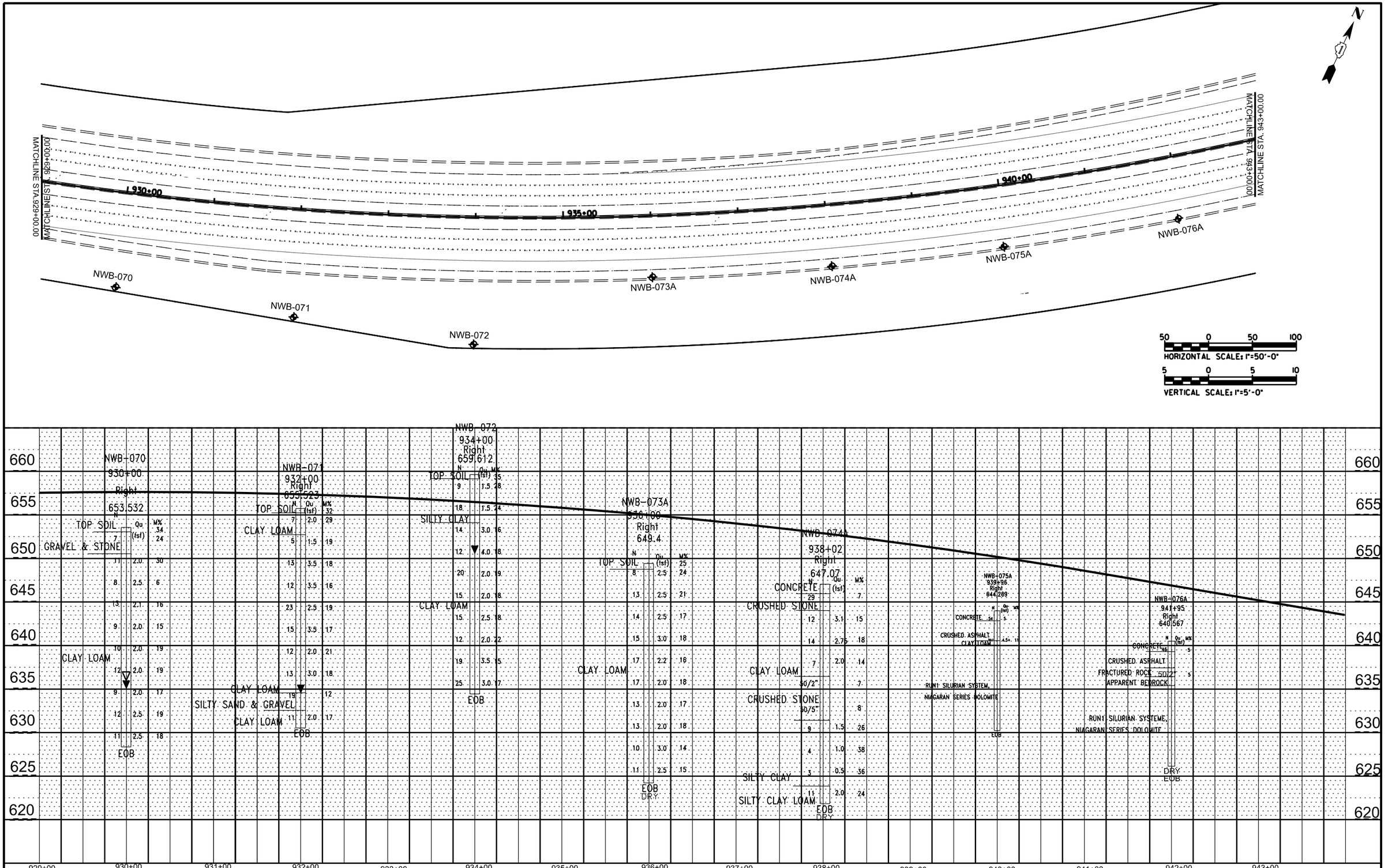
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14	12

CONTRACT NO.

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

PLAN	DATE
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
GRADES CHECKED	
NOTE BOOK	
NO.	

PROFILE	BY
SURVEYED	
PLOTTED	
GRADES CHECKED	
NOTE BOOK	
NO.	



STRUCTURE NOTATNS CHKD	DATE

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Geo Services, Inc.
Geotechnical, Environmental and Civil Engineering
An MBE - DBE Firm

USER NAME = $USER$	DESIGNED -	REVISED -	
	CHECKED - AJP	REVISED -	
PLOT SCALE = $SCALE$	DRAWN - SG	REVISED - FF	
PLOT DATE = $DATE$	CHECKED - AJP	REVISED -	

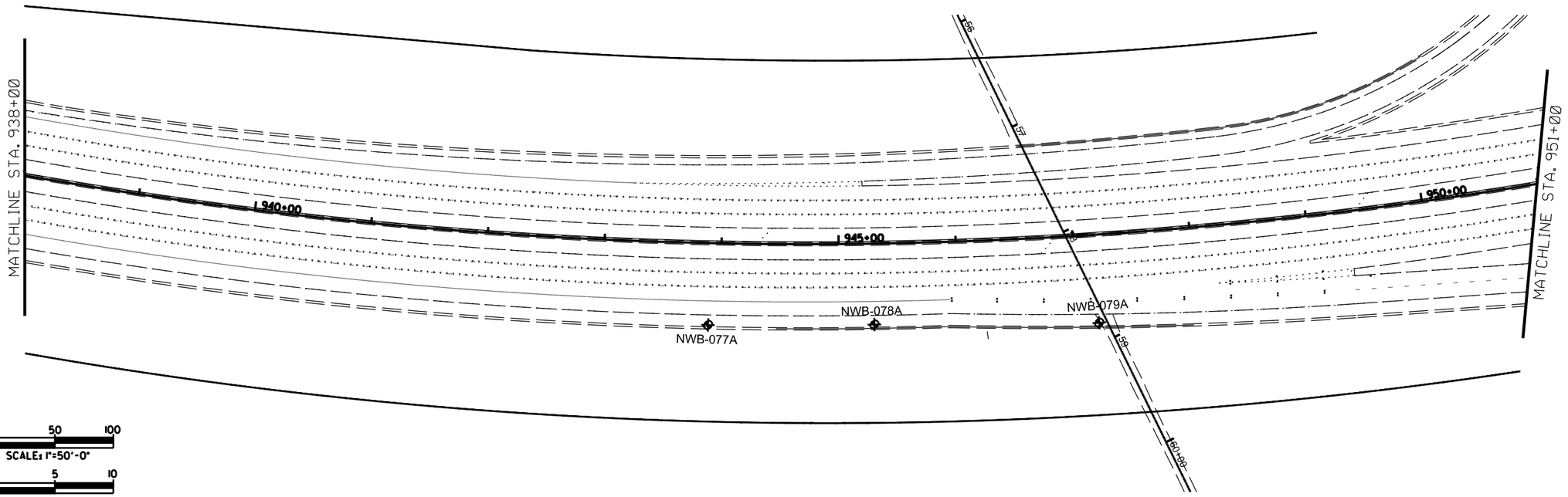
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: | SHEET 13 OF 14 | STA. 929+00 TO STA. 943+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14	13
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

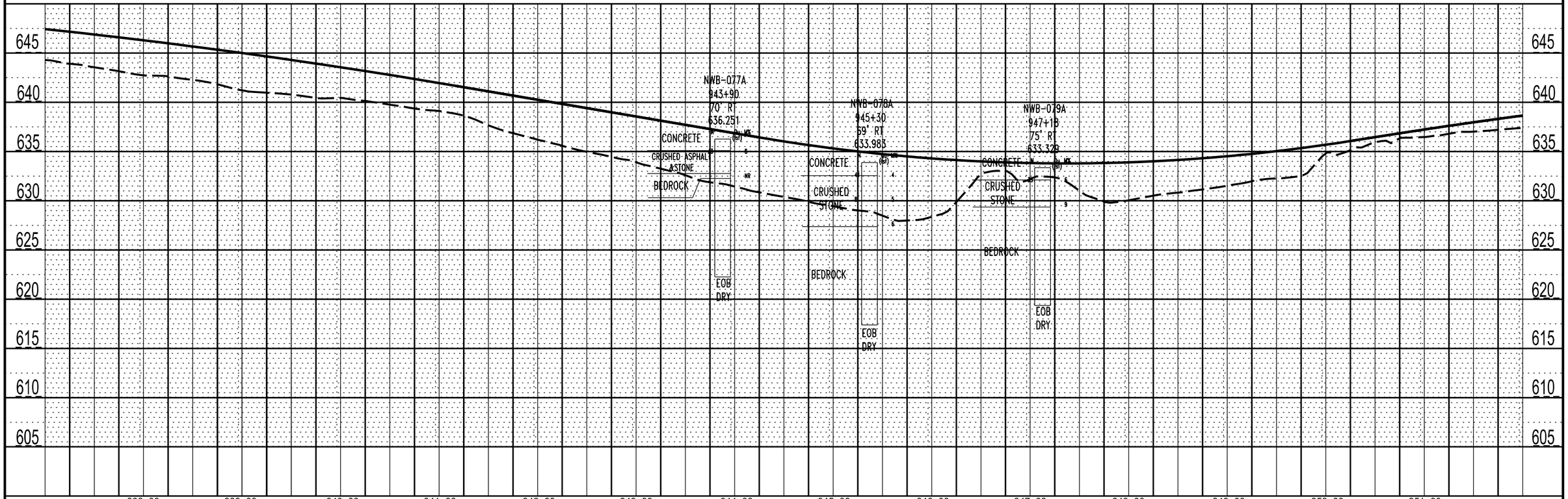
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE



50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

5 0 5 10
VERTICAL SCALE: 1"=5'-0"

PROFILE
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE



Geo Services, Inc.
Geotechnical, Environmental, Civil Engineering and Electrical Services
An MBE - DBE Firm

USER NAME = $USER$	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = $SCALE$	DRAWN - FF	REVISED -
PLOT DATE = 12/13/2022	CHECKED - AJP	REVISED -

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 5

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

SOIL BORING LOG

Date 3/1/22

FAI Route 80 from Chicago Street to US

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

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAYEY TOPSOIL-brown & black				
534.09				28
CRUSHED STONE-very dense		6		
		21		4
		50/4"		
532.09				
FRACTURED ROCK-very dense				
531.09		50/1"		2
Borehole continued with rock coring.	-5			
	-10			
	-15			
	-20			

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

BBS, form 137 (Rev. 8-99)

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

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(630) 355-2838

ROCK CORE LOG

Date 3/1/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 in
Top of Rock Elev. 531.09 ft
Begin Core Elev. 531.09 ft

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

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-4.0' to -14.0') 531.09	1	99	51		624.00
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.					
-5					
-10					
521.09					
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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ROCK CORE LOG

Date 3/1/22

FAI Route 80 from Chicago Street to US

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

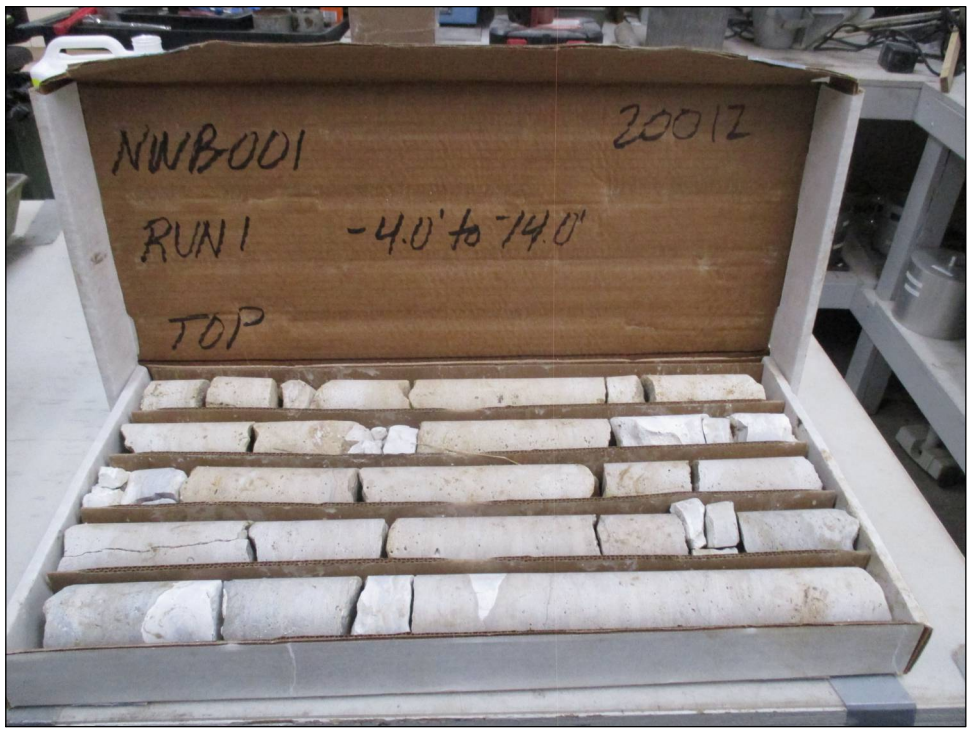
SECTION 15 **LOCATION** SW 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1765542.465, **Easting** 1055645.475

COUNTY Will **CORING METHOD** Rotary Wash

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

Core Diameter 2 **in**
Top of Rock Elev. 531.09 **ft**
Begin Core Elev. 531.09 **ft**

BORING NO. NWB-001
Station 114+15
Offset 32.9 ft Right
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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SOIL BORING LOG

Date 3/1/22

FAI Route 80 from Chicago Street to US

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** -

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

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
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"		
	-5			2
		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)

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SOIL BORING LOG

Date 2/21/22

FAI Route 80 from Chicago Street to US

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

STRUCT. NO. -
Station -

BORING NO. NWB-003
Station 106+72
Offset 13.7 ft Right
Ground Surface Elev. 563.66 ft

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black				
562.66				29
SILTY CLAY-dark brown & black-medium dense (Fill)		2		
		4		25
		6		
560.66				
FRACTURED ROCK-very dense		50/4"		
				5
	-5			
558.16				
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

Date 2/21/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 in
Top of Rock Elev. 558.16 ft
Begin Core Elev. 558.16 ft

BORING NO. NWB-003
Station 106+72
Offset 13.7 ft Right
Ground Surface Elev. 563.66 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-5.5' to -15.5') 558.16 SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout. Some rust staining to -9.2'.	1	95	70		698.00
-10					
-15					
548.16 End Of Boring @ -15.5'. 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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ROCK CORE LOG

Date 2/21/22

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

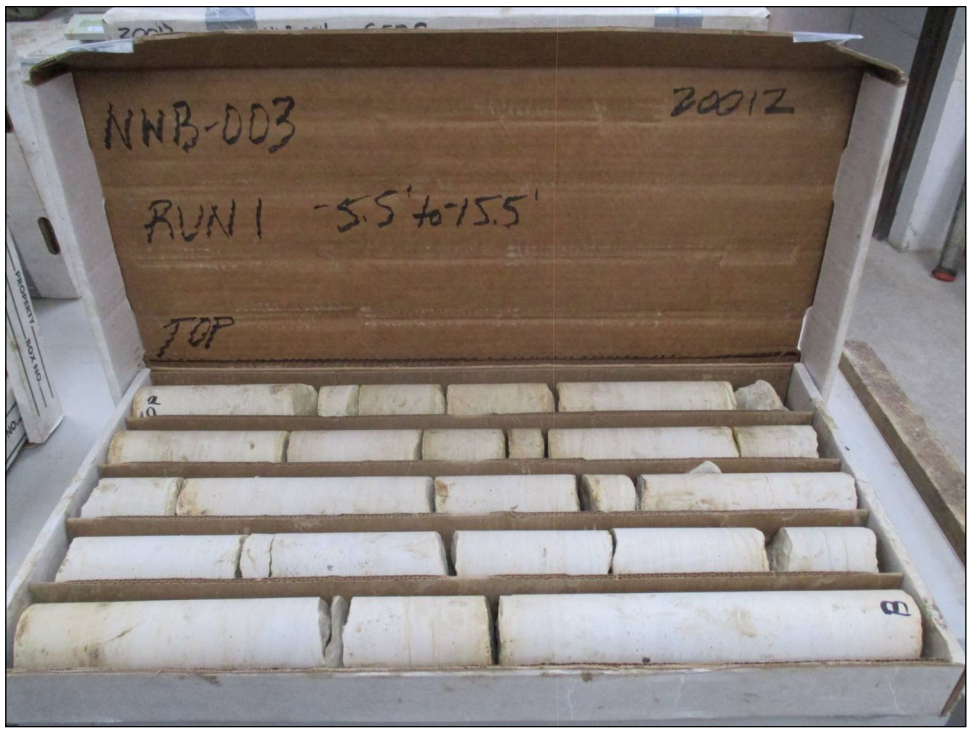
SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1765421.208, **Easting** 1056372.897

COUNTY Will **CORING METHOD** Rotary Wash

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

Core Diameter 2 in
Top of Rock Elev. 558.16 ft
Begin Core Elev. 558.16 ft

BORING NO. NWB-003
Station 106+72
Offset 13.7 ft Right
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)

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SOIL BORING LOG

Date 2/21/22

FAI Route 80 from Chicago Street to US

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 **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

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black				40
563.32		2		
SILTY CLAY-dark brown & black-stiff (Fill)		6 5	1.00 P	25
560.82		26		
FRACTURED ROCK-very dense		50/1"		7
559.82	-5			
Drillers Observation: Apparent Bedrock 558.82				
Borehole continued with rock coring.	-10			
	-15			
	-20			

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

BBS, form 137 (Rev. 8-99)

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

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ROCK CORE LOG

Date 2/21/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 in
Top of Rock Elev. 559.82 ft
Begin Core Elev. 558.82 ft

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

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-6.0' to -16.0') 558.82 SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout.	1	97	47		523.00
-10					
-15					
548.82 End Of Boring @ -16.0'. 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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ROCK CORE LOG

Date 2/21/22

FAI Route 80 from Chicago Street to US

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

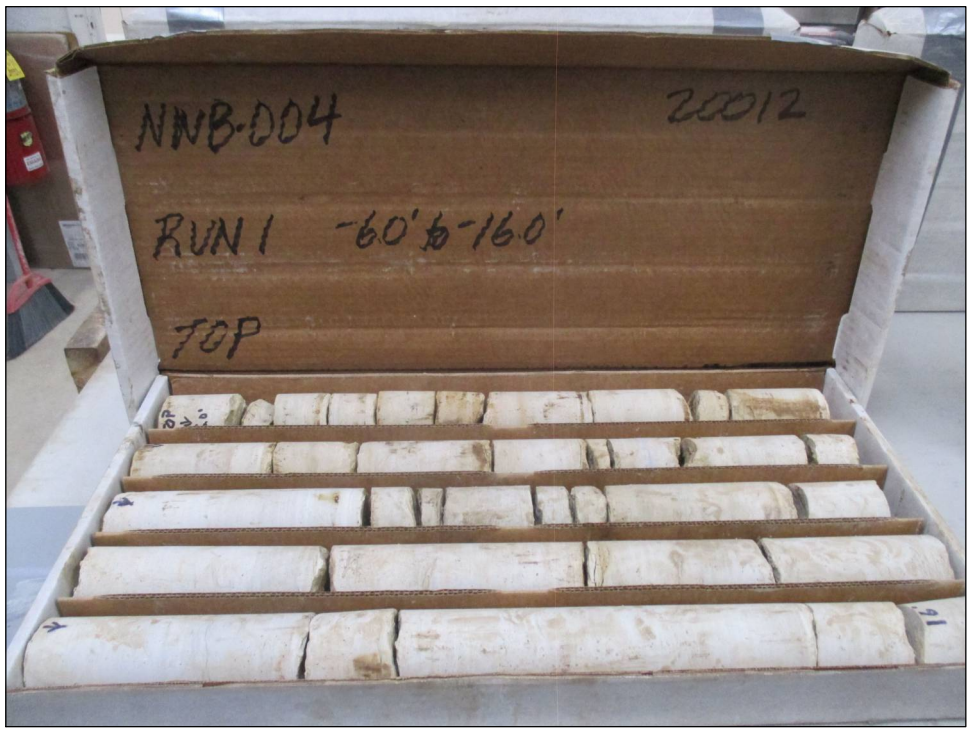
SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1765421.961, **Easting** 1056580.857

COUNTY Will **CORING METHOD** Rotary Wash

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

Core Diameter 2 **in**
Top of Rock Elev. 559.82 **ft**
Begin Core Elev. 558.82 **ft**

BORING NO. NWB-004
Station 104+64
Offset 19 ft Right
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

Date 2/21/22

FAI Route 80 from Chicago Street to US

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

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black				33
564.22		3		
SILTY CLAY-dark brown spotted black-stiff (Fill)		4 3	1.75 P	19
		2		
561.22		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

Date 2/21/22

FAI Route 80 from Chicago Street to US

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 -

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

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

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-6.0' to -16.0') 559.72	1	96	44		608.00
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout. Some rust staining to -12.0'.					
-10					
-15					
549.72					
End Of Boring @ -16.0'. 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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ROCK CORE LOG

Date 2/21/22

FAI Route 80 from Chicago Street to US

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

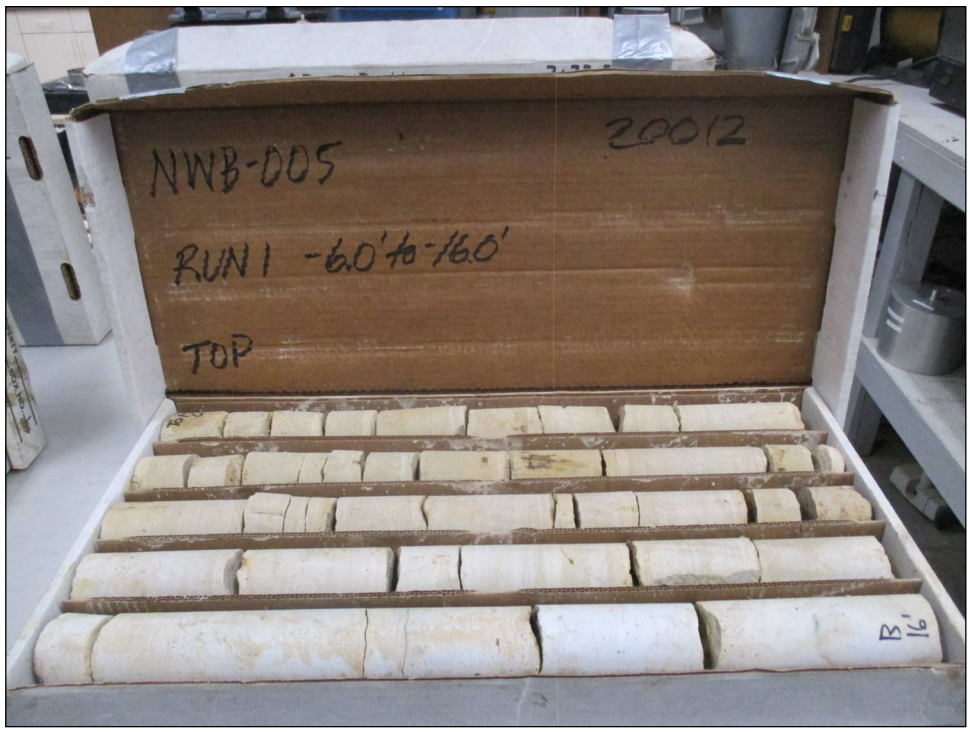
SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1765425.304, **Easting** 1056771.242

COUNTY Will **CORING METHOD** Rotary Wash

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

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

BORING NO. NWB-005
Station 102+74
Offset 26.5 ft Right
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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SOIL BORING LOG

Date 2/28/22

FAI Route 80 from Chicago Street to US

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

STRUCT. NO. -
Station -

BORING NO. NWB-006
Station 100+98
Offset 37.9 ft Right
Ground Surface Elev. 566.38 ft

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black				
				50
564.88		3		
SILTY CLAY-black-stiff (Fill)		8 4	1.00 P	17
becoming dark brown & -3.0'		2		
		3 5	1.00 P	23
	-5			
560.88				
SAND & GRAVEL-brown-medium dense to very dense		5		
		8 14		9
557.38		50/5"		
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)

BBS, form 137 (Rev. 8-99)

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ROCK CORE LOG

Date 2/28/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 in
Top of Rock Elev. 557.38 ft
Begin Core Elev. 557.38 ft

BORING NO. NWB-006
Station 100+98
Offset 37.9 ft Right
Ground Surface Elev. 566.38 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-9.0' to -19.0') 557.38	1	100	49		596.00
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE					
Light gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout. Some rust staining to -10.9'.					
-10					
-15					
547.38					
End Of Boring @ -19.0'. 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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ROCK CORE LOG

Date 2/28/22

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

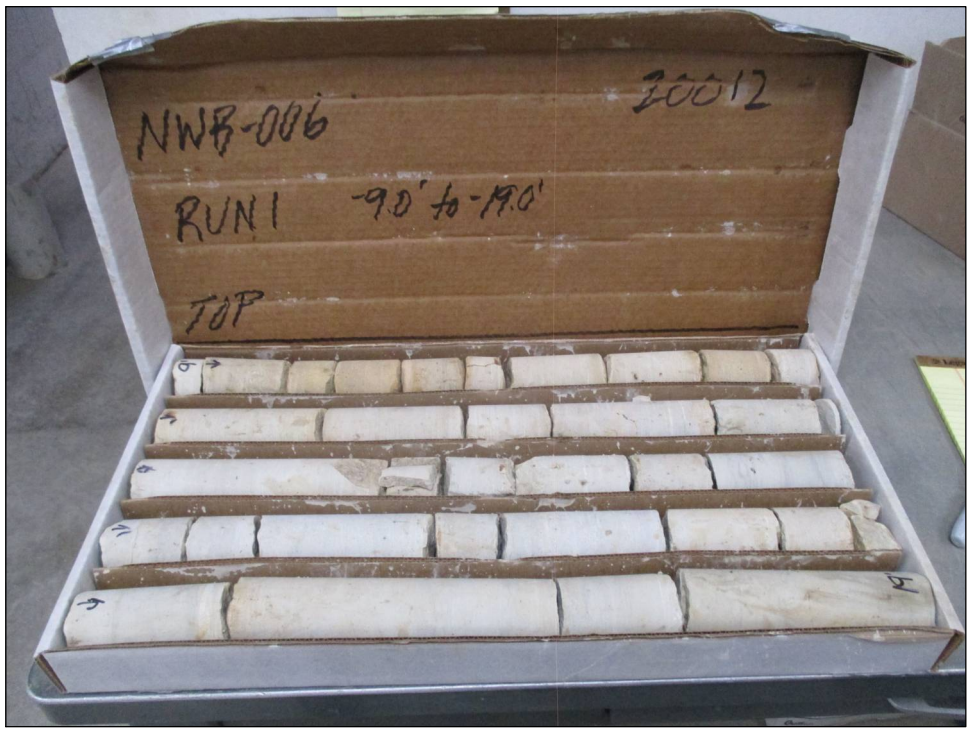
SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1765432.783, **Easting** 1056946.97

COUNTY Will **CORING METHOD** Rotary Wash

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

Core Diameter 2 **in**
Top of Rock Elev. 557.38 **ft**
Begin Core Elev. 557.38 **ft**

BORING NO. NWB-006
Station 100+98
Offset 37.9 ft Right
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

Date 2/28/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-007
Station 746+17
Offset 91.9 ft Left
Ground Surface Elev. 569.42 ft

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black				
				25
567.92		3		
SILTY CLAY-dark brown-very stiff (Fill)		4 6	2.50 P	21
566.42				
SAND & GRAVEL-brown-medium dense to dense		6		
		7		6
	-5	10		
		7		
		14		5
		17		
		2		
		4		6
	-10	11		
558.42				
Borehole continued with rock coring.				
	-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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Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
(630) 355-2838

ROCK CORE LOG

Date 2/28/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 in
Top of Rock Elev. 558.42 ft
Begin Core Elev. 558.42 ft

BORING NO. NWB-007
Station 746+17
Offset 91.9 ft Left
Ground Surface Elev. 569.42 ft

		DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-11.0' to -21.0') SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout. Some rust staining.	558.42		1	99	73		501.00
		-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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ROCK CORE LOG

Date 2/28/22

ROUTE FAI Route 80 from Chicago Street to US 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 -

Core Diameter 2 **in**
Top of Rock Elev. 558.42 **ft**
Begin Core Elev. 558.42 **ft**

BORING NO. NWB-007
Station 746+17
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

Date 2/28/22

FAI Route 80 from Chicago Street to US

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. - **Station** -

BORING NO. NWB-008 **Station** 749+07 **Offset** 88.1 ft Left **Ground Surface Elev.** 571.56 ft

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

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

Date 2/28/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 in
Top of Rock Elev. 562.56 ft
Begin Core Elev. 562.06 ft

BORING NO. NWB-008
Station 749+07
Offset 88.1 ft Left
Ground Surface Elev. 571.56 ft

		DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
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.	562.06	-10	1	84	60		629.00
	552.06	-15					
End Of Boring @ -19.5'. 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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ROCK CORE LOG

Date 2/28/22

FAI Route 80 from Chicago Street to US

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

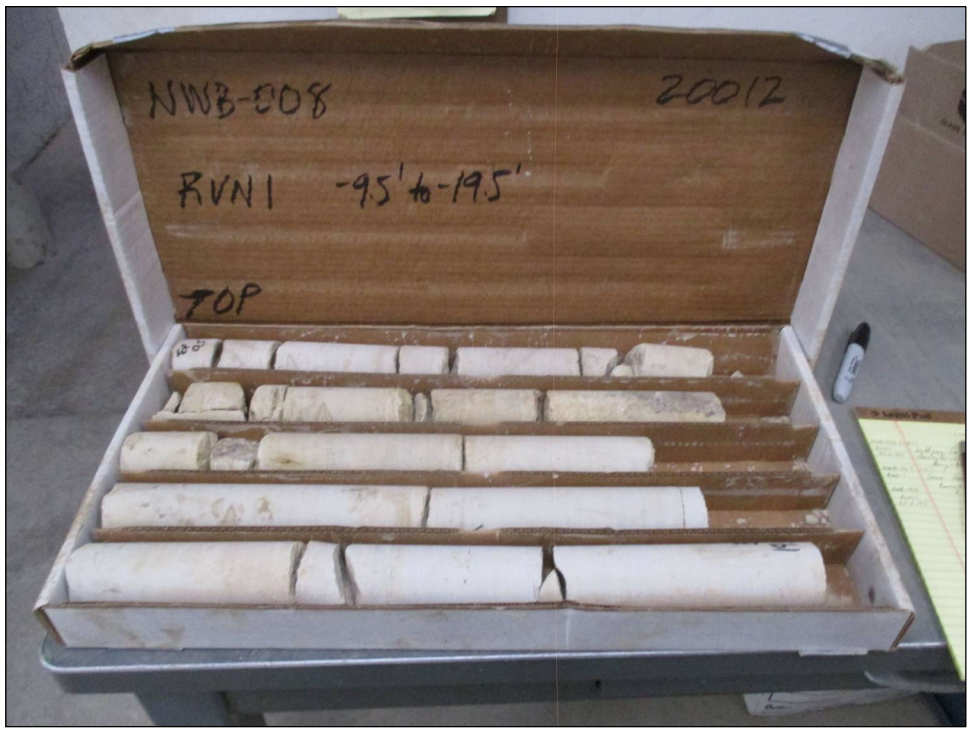
SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1765441.336, **Easting** 1057390.7

COUNTY Will **CORING METHOD** Rotary Wash

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

Core Diameter 2 **in**
Top of Rock Elev. 562.56 **ft**
Begin Core Elev. 562.06 **ft**

BORING NO. NWB-008
Station 749+07
Offset 88.1 ft Left
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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SOIL BORING LOG

Date 2/28/22

FAI Route 80 from Chicago Street to US

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

STRUCT. NO. - **Station** -

BORING NO. NWB-009 **Station** 751+00 **Offset** 97.7 ft Left **Ground Surface Elev.** 577.90 ft

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL with Stone-black-very loose (Fill)				
				9
		3		
		2		25
		1		
	574.90			
GRAVEL & STONE-brown-very loose (Fill)				
		4		
		6		8
	-5	7		
	572.40			
SILTY CLAY LOAM-brown-very stiff (Fill)				
		4		
	570.90	50/4"	2.75 P	13
Drillers Observation: Weathered/Fractured Rock	569.90			
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

Date 2/28/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 in
Top of Rock Elev. 569.90 ft
Begin Core Elev. 569.90 ft

BORING NO. NWB-009
Station 751+00
Offset 97.7 ft Left
Ground Surface Elev. 577.90 ft

		DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
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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ROCK CORE LOG

Date 2/28/22

ROUTE FAI Route 80 from Chicago Street to US 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 -

Core Diameter 2 **in**
Top of Rock Elev. 569.90 **ft**
Begin Core Elev. 569.90 **ft**

BORING NO. NWB-009
Station 751+00
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

Date 2/23/22

FAI Route 80 from Chicago Street to US

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

STRUCT. NO. - **Station** -

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

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black				
				22
570.08		3		
SILTY CLAY-dark brown & black-stiff (Fill)		4 3	1.00 P	24
		4		
		9		5
	-5	15		
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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ROCK CORE LOG

Date 2/23/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 in
Top of Rock Elev. 564.58 ft
Begin Core Elev. 564.58 ft

BORING NO. NWB-010
Station 753+08
Offset 117.7 ft Left
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
-10					
-15					
554.58					
End Of Boring @ -17.0'. 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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ROCK CORE LOG

Date 2/23/22

FAI Route 80 from Chicago Street to US

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

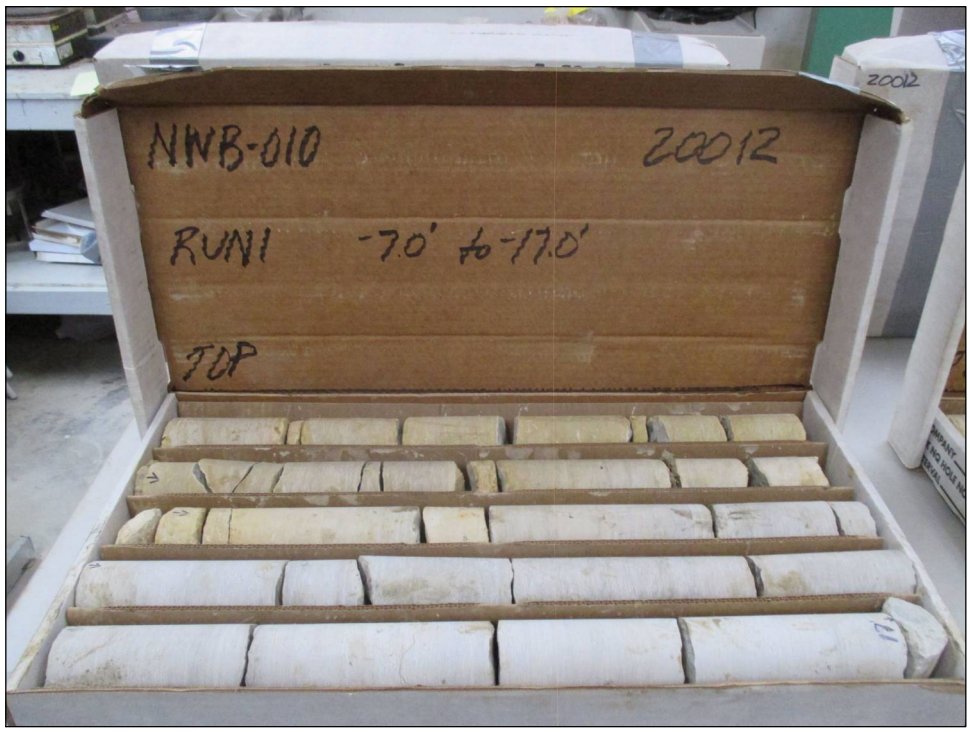
SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1765483.551, **Easting** 1057790.284

COUNTY Will **CORING METHOD** Rotary Wash

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

Core Diameter 2 **in**
Top of Rock Elev. 564.58 **ft**
Begin Core Elev. 564.58 **ft**

BORING NO. NWB-010
Station 753+08
Offset 117.7 ft Left
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)

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GEO Job No. 20012

SOIL BORING LOG

Date 2/16/22

ROUTE 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. -
Station -

BORING NO. NWB-011
Station 755+03
Offset 129.80ft Left
Ground Surface Elev. 568.21 ft

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

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

Date 3/4/22

FAI Route 80 from Chicago Street to US

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** 1764691.5, **Easting** 1055609.2

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

STRUCT. NO. -
Station -

BORING NO. NWB-012
Station 53+16
Offset 42 ft Right
Ground Surface Elev. 556.00 ft

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" ASPHALT				
555.17				
CRUSHED STONE-medium dense		8		
		8 5		4
553.00				
Drillers Observation: Apparent Bedrock				
551.50				
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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ROCK CORE LOG

Date 3/4/22

FAI Route 80 from Chicago Street to US

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 1764691.5, **Easting** 1055609.2

COUNTY Will **CORING METHOD** Rotary Wash

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

Core Diameter 2 in
Top of Rock Elev. 553.00 ft
Begin Core Elev. 551.50 ft

BORING NO. NWB-012
Station 53+16
Offset 42 ft Right
Ground Surface Elev. 556.00 ft

		DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-4.5' to -14.5')	551.50	-5	1	100	82		655.00
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray & fine grained with horizontal bedding. Some horizontal fractures throughout.		-10					
	541.50	-15					
End Of Boring @ -16.0'. Boring backfilled with cuttings. End of Boring		-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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ROCK CORE LOG

Date 3/4/22

FAI Route 80 from Chicago Street to US

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

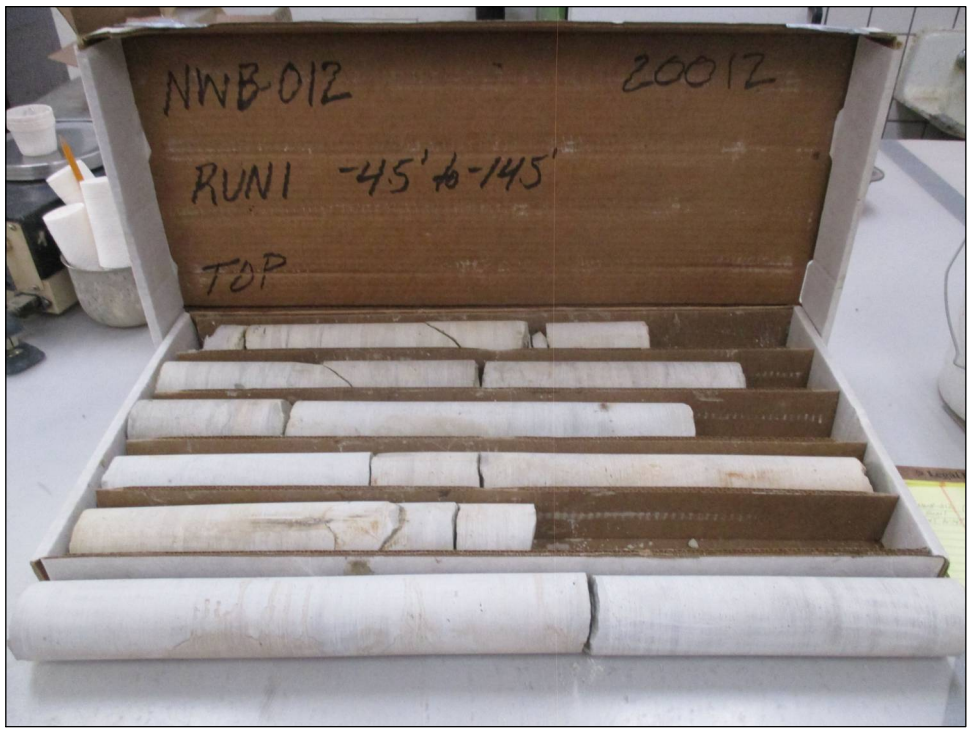
SECTION 15 **LOCATION** SW 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1764691.5, **Easting** 1055609.2

COUNTY Will **CORING METHOD** Rotary Wash

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

Core Diameter 2 **in**
Top of Rock Elev. 553.00 **ft**
Begin Core Elev. 551.50 **ft**

BORING NO. NWB-012
Station 53+16
Offset 42 ft Right
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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SOIL BORING LOG

Date 3/4/22

FAI Route 80 from Chicago Street to US

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

STRUCT. NO. - **Station** -

BORING NO. NWB-013 **Station** 11+00 **Offset** 2 ft Right **Ground Surface Elev.** 549.00 ft

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

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" ASPHALT	548.17				
CLAY LOAM-brown-very stiff (Fill)			21		
			3 5		18
	545.50				
Drillers Observation: Fractured/Weathered Rock			50/0"		NR
	544.00	-5			
Drillers Observation: Apparent Bedrock	543.00				
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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(630) 355-2838

ROCK CORE LOG

Date 3/4/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 in
Top of Rock Elev. 544.00 ft
Begin Core Elev. 543.00 ft

BORING NO. NWB-013
Station 11+00
Offset 2 ft Right
Ground Surface Elev. 549.00 ft

		DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-6.0' to -16.0') SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray & fine grained with horizontal bedding. Some horizontal fractures throughout.	543.00		1	99	91		691.00
		-10					
		-15					
	533.00						
End Of Boring @ -16.0'. 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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ROCK CORE LOG

Date 3/4/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 **in**
Top of Rock Elev. 544.00 **ft**
Begin Core Elev. 543.00 **ft**

BORING NO. NWB-013
Station 11+00
Offset 2 ft Right
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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SOIL BORING LOG

Date 3/8/22

FAI Route 80 from Chicago Street to US

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

STRUCT. NO. - **Station** -

BORING NO. NWB-014 **Station** 12+99 **Offset** 11.7 ft Left **Ground Surface Elev.** 553.70 ft

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

Groundwater Elev.: **First Encounter** 547.7 ft ▼ **Upon Completion** n/a ft **After** - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
14.0" ASPHALT				
552.53				
CRUSHED ASPHALT-very dense	50/5"			
			3	
550.70				
CRUSHED STONE-medium dense	12			
	17		8	
-5	8			
▼	5			
546.70	50/0"		2	
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

Date 3/8/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 in
Top of Rock Elev. 546.70 ft
Begin Core Elev. 546.70 ft

BORING NO. NWB-014
Station 12+99
Offset 11.7 ft Left
Ground Surface Elev. 553.70 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
546.70					
RUN 1 (-7.0' to -17.0') SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray & fine grained with horizontal bedding. Some horizontal fractures throughout.	1	97	80		652.00
-10					
-15					
536.70					
End Of Boring @ -17.0'. 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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ROCK CORE LOG

Date 3/8/22

ROUTE FAI Route 80 from 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 1764993.7, **Easting** 1055822.9

COUNTY Will **CORING METHOD** Rotary Wash

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

Core Diameter 2 **in**
Top of Rock Elev. 546.70 **ft**
Begin Core Elev. 546.70 **ft**

BORING NO. NWB-014
Station 12+99
Offset 11.7 ft Left
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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SOIL BORING LOG

Date 3/8/22

FAI Route 80 from Chicago Street to US

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. - **Station** -

BORING NO. NWB-015 **Station** 15+00 **Offset** 11.2 ft Right **Ground Surface Elev.** 555.70 ft

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
16.0" ASPHALT			
554.37	35		
CRUSHED ASPHALT-very dense	50/4"		3
552.70			
Drillers Observation: Apparent Bedrock	50/0"		NR
551.70			
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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ROCK CORE LOG

Date 3/8/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 in
Top of Rock Elev. 552.70 ft
Begin Core Elev. 551.70 ft

BORING NO. NWB-015
Station 15+00
Offset 11.2 ft Right
Ground Surface Elev. 555.70 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-4.0' to -14.0') 551.70	1	99	89		552.00
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray & fine grained with horizontal bedding. Some horizontal fractures & rust staining throughout.					
-5					
-10					
541.70					
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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ROCK CORE LOG

Date 3/8/22

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

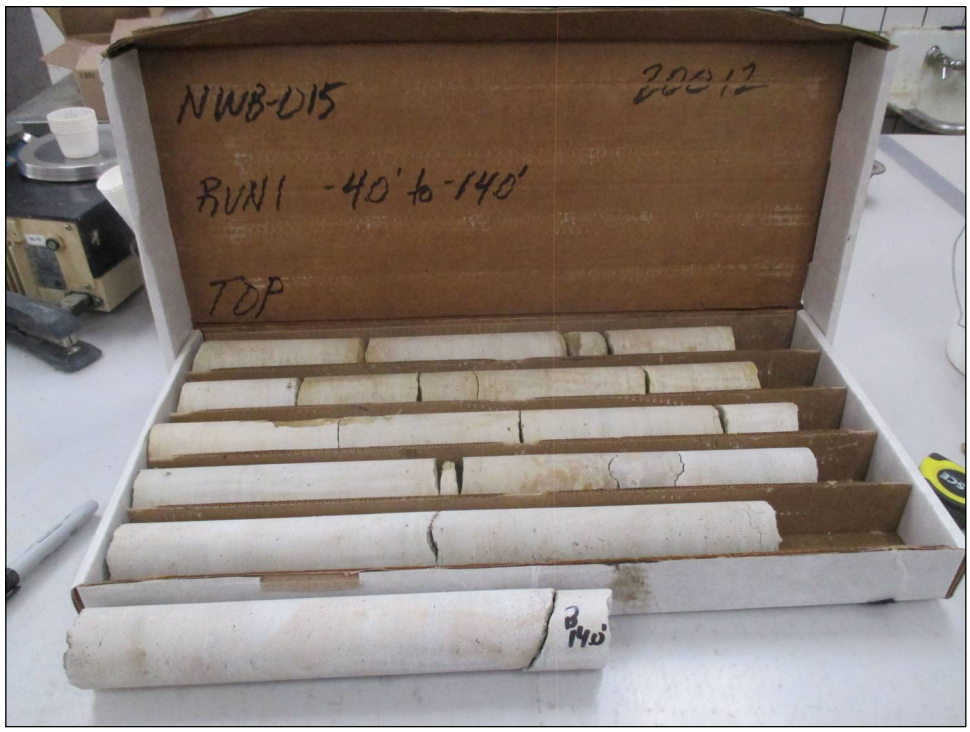
SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1765109.6, **Easting** 1055986.5

COUNTY Will **CORING METHOD** Rotary Wash

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

Core Diameter 2 **in**
Top of Rock Elev. 552.70 **ft**
Begin Core Elev. 551.70 **ft**

BORING NO. NWB-015
Station 15+00
Offset 11.2 ft Right
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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SOIL BORING LOG

Date 3/15/22

FAI Route 80 from Chicago Street to US

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 1765208, **Easting** 1056158.5

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

STRUCT. NO. -
Station -

BORING NO. NWB-016
Station 17+00
Offset 2.1 ft Left
Ground Surface Elev. 558.60 ft

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

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
11.0" ASPHALT	557.68				
CRUSHED STONE-medium dense			16		
			16		4
			12		
	555.60				
Drillers Observation: Apparent Bedrock	554.60		50/1"		
Borehole continued with rock coring.		-5			
		-10			
		-15			
		-20			

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

BBS, form 137 (Rev. 8-99)

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

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ROCK CORE LOG

Date 3/15/22

FAI Route 80 from Chicago Street to US

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 1765208, **Easting** 1056158.5

COUNTY Will **CORING METHOD** Rotary Wash

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

Core Diameter 2 in
Top of Rock Elev. 555.10 ft
Begin Core Elev. 554.60 ft

BORING NO. NWB-016
Station 17+00
Offset 2.1 ft Left
Ground Surface Elev. 558.60 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-4.0' to -14.0') SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray & porous with horizontal bedding. Some rust staining to -7.3'. 554.60	1	94	70		634.00
-5					
-10					
544.60					
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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ROCK CORE LOG

Date 3/15/22

FAI Route 80 from Chicago Street to US

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

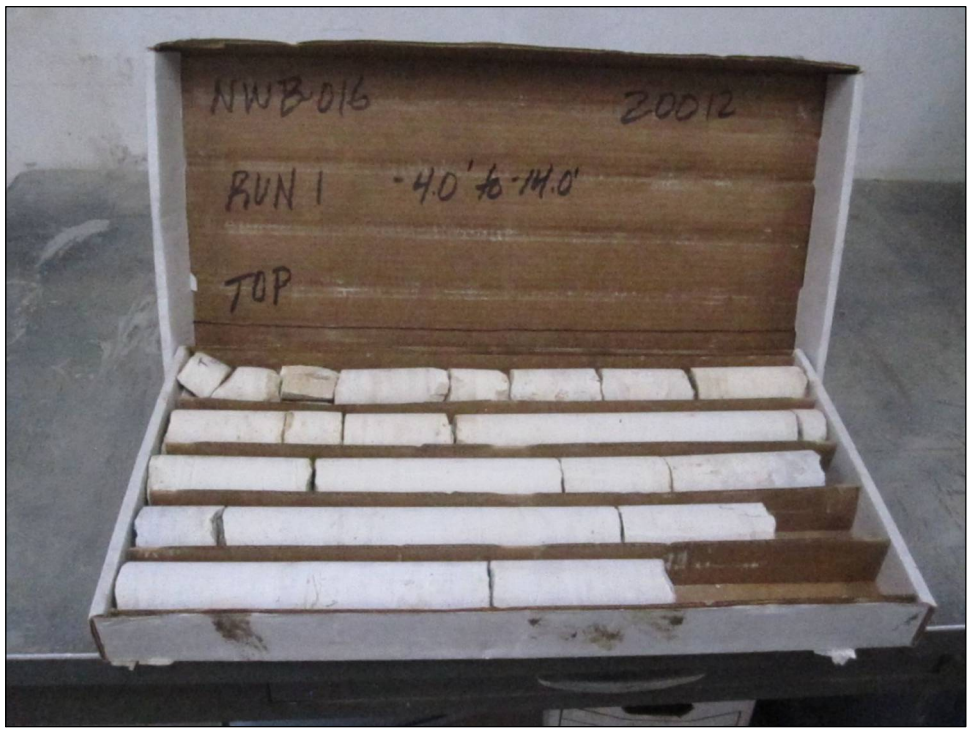
SECTION 15 **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R30E, 3rd **PM**,
Northing 1765208, **Easting** 1056158.5

COUNTY Will **CORING METHOD** Rotary Wash

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

Core Diameter 2 **in**
Top of Rock Elev. 555.10 **ft**
Begin Core Elev. 554.60 **ft**

BORING NO. NWB-016
Station 17+00
Offset 2.1 ft Left
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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SOIL BORING LOG

Date 3/15/22

FAI Route 80 from Chicago Street to US

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

STRUCT. NO. - **Station** -

BORING NO. NWB-017 **Station** 19+00 **Offset** 4.5 ft Left **Ground Surface Elev.** 560.80 ft

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

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
11.0" ASPHALT	559.88				
CRUSHED ASPHALT-medium dense			25		
			12		4
			9		
	557.80				
Drillers Observation: Apparent Bedrock	557.30				
Borehole continued with rock coring.		-5			
		-10			
		-15			
		-20			

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

BBS, form 137 (Rev. 8-99)

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

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ROCK CORE LOG

Date 3/15/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 in
Top of Rock Elev. 557.30 ft
Begin Core Elev. 557.30 ft

BORING NO. NWB-017
Station 19+00
Offset 4.5 ft Left
Ground Surface Elev. 560.80 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-3.5' to -13.5') SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray & porous with horizontal bedding. 557.30	1	98	77		278.00
End Of Boring @ -13.5'. Boring backfilled with cuttings. End of Boring 547.30					

-5
-10
-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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ROCK CORE LOG

Date 3/15/22

ROUTE FAI Route 80 from 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 1765240.1, **Easting** 1056356.1

COUNTY Will **CORING METHOD** Rotary Wash

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

Core Diameter 2 **in**
Top of Rock Elev. 557.30 **ft**
Begin Core Elev. 557.30 **ft**

BORING NO. NWB-017
Station 19+00
Offset 4.5 ft Left
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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SOIL BORING LOG

Date 3/24/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-018A
Station 766+22
Offset 60.7 ft Right
Ground Surface Elev. 624.64 ft

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

Groundwater Elev.:
First Encounter 619.636 ft
Upon Completion n/a ft
After - **Hrs.** - ft

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

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)

BBS, form 137 (Rev. 8-99)

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

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SOIL BORING LOG

GEO Job No. 20012

Page 1 **of** 1

Date 4/4/22

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. -
Station -

BORING NO. NWB-019
Station 768+00
Offset 102.10ft Right
Ground Surface Elev. 627.00 **ft**

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**

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black 626.50		AS		38
CLAY LOAM-brown-hard		AS		
			4.50 P	15
		AS		
			4.50 P	19
		AS		
	-5		4.00 P	20
		AS		
			4.25 P	21
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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SOIL BORING LOG

Date 3/24/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-019A
Station 768+06
Offset 63.9 ft Right
Ground Surface Elev. 628.55 ft

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

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

GEO Job No. 20012

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Date 4/4/22

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. -
Station -

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

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**

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
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

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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SOIL BORING LOG

Date 3/25/22

FAI Route 80 from Chicago Street to US

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

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
0				6.0" ASPHALT 631.14
				CLAY LOAM-brown & gray-stiff to hard
	4			
	9 9	4.50 P	12	
	2			
-5	3 2	1.20 B	19	
	5			
	8 9	2.50 B	19	
	4			
-10	7 5	1.80 B	18	
	4			
	6 8	2.20 B	21	
	5			
-15	8 11	2.80 B	18	
	5			
	8 9	3.00 P	16	
	4			
-20	5 10	2.50 P	17	
				611.14
				SANDY LOAM-brown-medium dense
	12			
	8 12		16	
				608.64
				SAND-brown-medium dense
	5			
-25	4 6		7	
				606.64
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-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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GEO Job No. 20012

SOIL BORING LOG

Date 3/17/22

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-021
Station 772+00
Offset 100.00ft Right
Ground Surface Elev. 626.50 ft

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

Groundwater Elev.:
First Encounter 620.5 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black	HA		
625.50			23
CLAY LOAM-brown-stiff to very stiff	HA		
		1.00	27
	HA	P	
		1.00 P	25
	HA		
-5		2.50 P	27
▼	HA		
		2.75 P	23
	HA		
		2.50 P	18
617.00			
Auger Refusal @ -9.5'. 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
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SOIL BORING LOG

Date 3/28/22

FAI Route 80 from Chicago Street to US

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

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT 632.85			
CLAY LOAM-brown-very stiff to hard	9		
	8 8	5.90 B	16
	5		
-5	4 7	2.70 B	19
	6		
	5 5	3.00 B	22
	4		
-10	4 6	3.10 B	22
	2		
	4 4	3.60 B	24
	6		
-15	9 9	5.30 B	17
	4		
	8 10	2.75 P	18
	4		
-20	7 8	4.90 B	20
CLAY LOAM-brown-very stiff to hard *(continued)*	3		
	5 6	2.50 B	17
	6		
608.85 -25	10 7	3.10 B	18
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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SOIL BORING LOG

GEO Job No. 20012

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Date 3/17/22

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. -
Station -

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

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" TOPSOIL-black		HA		
626.79				23
CLAY LOAM-brown & gray-stiff (Fill)		HA		
			1.50 P	23
625.62				
CLAY LOAM-brown-stiff to hard		HA		
			1.25 P	25
		HA		
	-5		2.00 P	24
		HA		
			1.50 P	19
		HA		
			3.50 P	19
	-10	HA		
616.62			4.50 P	20
Auger Refusal @ -11.0'. End Of Boring.				
	-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
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SOIL BORING LOG

Date 3/28/22

FAI Route 80 from Chicago Street to US

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

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

Groundwater Elev.:
First Encounter 614.574 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT			
634.57			
CLAY LOAM-brown, gray & spotted black-very stiff to hard (Fill)	4		
	4 5	4.20 B	18
	3		
-5	3 4	3.30 B	20
	4		
	6 9	3.50 B	24
627.57			
CLAY LOAM-brown-very stiff	6		
-10	7 9	3.70 B	18
	4		
	6 9	3.70 B	18
	5		
-15	7 8	4.80 B	19
	4		
	5 5	2.30 B	20
	5		
-20	4 5	3.00 B	20
615.07			
SANDY LOAM-dark brown-loose ▼	2		
	3 2		23
612.57			
CLAY LOAM-brown-very stiff	5		
610.57 -25	7 9	2.70 B	21
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-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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GEO Job No. 20012

SOIL BORING LOG

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Date 3/17/22

FAI Route 80 from Chicago Street to US Route 30

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. -
Station -

BORING NO. NWB-023
Station 776+00
Offset 105.00ft Right
Ground Surface Elev. 636.23 ft

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

Groundwater Elev.:
First Encounter 630.2 ft ▼
Upon Completion ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" TOPSOIL-black 635.56		HA		
CLAY LOAM-brown-medium stiff to hard		HA		24
			0.75 P	27
		HA		
			1.00 P	25
		HA		
	-5		1.00 P	23
▼		HA		
			4.50 P	19
		HA		
			3.50 P	18
626.23	-10			
Auger Refusal @ -10.0'. End Of Boring.	-15			
	-20			

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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
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SOIL BORING LOG

Date 3/28/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-023A
Station 776+03
Offset 68.5 ft Right
Ground Surface Elev. 637.13 ft

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" ASPHALT
				636.13
	22			CLAY LOAM with STONE-brown-hard (Fill)
	8 8	4.00 P	14	
				634.13
	4			CLAY LOAM-brown & gray-very stiff to hard
-5	6 8	5.40 B	17	
	3			
	5 6	2.00 P	24	
	4			
-10	4 4	1.20 B	25	
	4			
	8 9	3.75 P	23	
	7			
-15	12 12	5.60 B	17	
	7			
	8 13	3.20 B	17	
	4			
-20	5 9	2.00 P	18	
				CLAY LOAM-brown & gray-very stiff to hard *(continued)*
	5			
	6 10	2.75 P	17	
	7			
-25	10 12	4.60 B	21	
				612.13
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-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

GEO Job No. 20012

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Date 3/16/22

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-024
Station 778+00
Offset 104.70ft Right
Ground Surface Elev. 637.40 ft

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black	HA		
636.40			28
CLAY LOAM-brown-stiff to hard	HA		
		1.50	25
	HA	P	
		1.75 P	26
	HA		
-5		3.25 P	16
	HA		
		4.50 P	16
629.40			
Auger Refusal @ -8.0'. End Of Boring.			
-10			
-15			
-20			

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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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SOIL BORING LOG

Date 3/28/22

FAI Route 80 from Chicago Street to US

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.
Station

BORING NO. NWB-024A
Station 778+00
Offset 68.7 ft Right
Ground Surface Elev. 638.69 ft

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

Groundwater Elev.:
First Encounter 623.692 ft ▼
Upon Completion Dry ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
11.0" ASPHALT			
637.78			
CLAY LOAM with STONE-brown & black-very stiff (Fill)	35		
	11 8	2.50 P	14
635.69			
CLAY LOAM-brown-stiff to very stiff (Fill)	4		
	3 7	1.90 B	22
-5			
	3		
	4 5	2.20 B	19
	3		
	3 5	1.50 P	20
-10			
	3		
	3 5	1.90 B	22
625.69			
SITLY CLAY-dark brown & gray-very stiff	3		
	5 7	2.00 P	27
▼-15			
623.19			
CLAY LOAM-brown-stiff to very stiff	5		
	7 8	2.20 B	20
	4		
	8 8	1.50 P	18
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-brown-stiff to very stiff *(continued)*			
	6		
	8 9	2.30 B	24
	6		
	9 9	2.10 B	25
613.69 -25			
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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)

BBS, form 137 (Rev. 8-99)

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

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SOIL BORING LOG

GEO Job No. 20012

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Date 3/16/22

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-025
Station 780+00
Offset 126.20ft Right
Ground Surface Elev. 636.10 **ft**

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

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
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 P	14
		HA		
	-5		2.50 P	18
		HA		
			1.00 P	33
628.60				
Auger Refusal @ -7.5'. End Of Boring.	-10			
	-15			
	-20			

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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
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SOIL BORING LOG

Date 3/18/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-025A
Station 780+02
Offset 68.8 ft Right
Ground Surface Elev. 640.34 ft

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				ASPHALT
				639.34
	4			CLAY LOAM-brown & gray-very stiff to stiff (Apparent Fill)
	4 4	3.80 B	18	
	2			
-5	3 5	1.70 B	24	
	4			
	5 5	1.70 B	18	
	3			
-10	4 7	2.80 B	22	
	2			
	3 4	3.00 B	19	
	2			
-15	2 3	2.25 P	20	
				624.84
				SILTY CLAY LOAM-brown & gray-stiff
	7			
	12 10	1.25 P	18	
	2			
-20	4 7	1.75 P	20	
				619.84
				CLAY LOAM-gray-stiff to hard
	6			
	9 13	3.90 B	20	
	5			
-25	25 50/2"	4.60 B	22	
				615.34
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-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

GEO Job No. 20012

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Date 3/16/22

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-026
Station 781+92
Offset 128.60ft Right
Ground Surface Elev. 644.00 **ft**

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

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" CINDERS-black 643.50	HA		
CLAY LOAM-brown-very stiff to hard	HA		55
		2.75 P	24
	HA		
		4.50 P	12
	HA		
-5		4.50 P	14
638.50 Auger Refusal @ -5.5'. 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)

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

SOIL BORING LOG

Date 3/17/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-026A
Station 782+01
Offset 69.2 ft Right
Ground Surface Elev. 641.84 ft

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

Groundwater Elev.:
First Encounter 625.84 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
641.34			
6.0" ASPHALT			
CLAY LOAM-brown & gray spotted black-stiff to hard (Fill)	3		
	6 4	3.40 B	12
	6		
	6 6	6.10 B	18
-5			
	2		
	5 5	1.50 B	25
	2		
	3 3	1.40 B	20
-10			
	2		
	4 3	1.00 P	27
	3		
	3 2	1.00 P	28
-15			
626.34			
CLAY LOAM-brown-very stiff to hard ▼	5		
	7 11	5.90 B	19
	7		
	10 12	3.70 B	19
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
621.34			
SILTY SAND, GRAVEL & FRACTURED ROCK-brown-very dense	25		
	50/2"		15
	50/2"		
			14
616.84 -25			
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-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

Date 2/15/22

FAI Route 80 from Chicago Street to US

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

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

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

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)

BBS, form 137 (Rev. 8-99)

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

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SOIL BORING LOG

Date 2/15/22

FAI Route 80 from Chicago Street to US

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

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

Groundwater Elev.:
First Encounter 632.923 ft
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
643.42				6.0" TOPSOIL-black
			44	CLAY LOAM-brown & gray-very stiff
	3			
	4 5	3.50 P	18	
	7			
	4 5	3.40 B	16	
-5	6			
	12 12	3.00 P	17	
	6			becoming gray @ -8.0'
	6 11	2.75 P	23	
-10	8			▼
	8 10	2.75 P	19	
	4			
	6 7	2.00 P	19	
-15	4			
	6 9	2.00 P	22	
625.92				
	50/4"			SILTY CLAY LOAM-brown & gray-very stiff
624.42		2.00 P	18	
-20				Auger Refusal @ -19.5'. Possible

Bedrock. End Of Boring. Boring backfilled with cuttings.

-25 -30 -35 -40

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)

BBS, form 137 (Rev. 8-99)

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

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SOIL BORING LOG

Date 2/15/22

FAI Route 80 from Chicago Street to US

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

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
645.15 6.0" CLAYEY TOPSOIL-brown & black			
			33
CLAY LOAM-brown & gray-stiff to very stiff	4		
	4 8	3.00 P	22
	3		
-5	3 5	2.50 P	18
	4		
	7 12	2.50 B	23
	4		
	7	1.75	31
-10	7	P	
	4		
	8 10	3.40 B	25
632.65 SILTY LOAM-brown-loose	3		
	3		22
-15	5		
630.15 CLAY LOAM-gray-very stiff	7		
	9 9	3.50 P	15
627.65 CLAYEY GRAVEL-brown-dense	5		
	12		7
625.65 -20	27		
-25			
-30			
-35			
-40			

Auger Refusal @ -20.0'. Possible Bedrock. End Of Boring. Boring backfilled with cuttings.

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)

BBS, form 137 (Rev. 8-99)

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

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(630) 355-2838

SOIL BORING LOG

Date 2/15/22

FAI Route 80 from Chicago Street to US

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

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

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

backfilled with cuttings.

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
-25			
-30			
-35			
-40			

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)

BBS, form 137 (Rev. 8-99)

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

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SOIL BORING LOG

Date 2/14/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-031
Station 792+19
Offset 66.8 ft Right
Ground Surface Elev. 649.30 ft

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
648.80				6.0" CLAYEY TOPSOIL-dark brown & black
			38	
	3			SILTY CLAY-brown-hard
	5 6	4.00 P	22	
646.30				
				CLAY LOAM-brown-very stiff
	5			
-5	5 7	2.20 B	17	
				becoming gray @ -5.5'
	5			
	8 8	2.70 B	19	
	4			
-10	5 8	3.00 P	19	
	4			
	5 8	2.20 B	22	
	5			
-15	8 12	3.00 P	16	
	4			
	5 8	3.50 P	14	
631.30				
				FRACTURED ROCK-brown-very dense
	15			
-20	23 50/2"		6	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
628.80				Auger Refusal @ -20.5'. Possible Bedrock. End Of Boring. Boring backfilled with cuttings.
-25				
-30				
-35				
-40				

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)

BBS, form 137 (Rev. 8-99)

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

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SOIL BORING LOG

Date 2/14/22

FAI Route 80 from Chicago Street to US

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

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black 649.00				
CLAY LOAM-brown & gray-very stiff				55
		5		
		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"		
	-20			NR

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

Date 2/14/22

FAI Route 80 from Chicago Street to US

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 1765172.834, **Easting** 1062082.047

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

STRUCT. NO. -
Station -

BORING NO. NWB-033
Station 100+69
Offset 34.3 ft Right
Ground Surface Elev. 647.14 ft

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

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM with Stone-brown (Fill)	646.14				14
ORGANIC SILTY CLAY-black-medium dense			5 9 10		50
	644.14				
SILTY CLAY-dark brown & gray-very stiff (Fill)			7		
		-5	28 13	2.70 B	25
	641.64				
CLAY LOAM-gray-very stiff (Fill)			5		
			10 4		NR
	639.14				
SILTY CLAY LOAM-brown & gray-stiff to very stiff (Fill)			6		
		-10	5 7	2.20 B	20
			6		
			5 8	1.50 P	13
			7		
		-15	8 13	3.00 P	18
	631.64				
FRACTURED ROCK-brown-very dense	630.64		50/1"		
Auger Refusal @ -16.5'. Possible Bedrock. End Of Boring. Boring backfilled with cuttings.					5
		-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

Date 2/15/22

FAI Route 80 from Chicago Street to US

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 1765181.517, **Easting** 1062269.559

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

STRUCT. NO. -
Station -

BORING NO. NWB-034
Station 102+56
Offset 21.6 ft Right
Ground Surface Elev. 646.05 ft

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black 645.55				
CLAY LOAM-brown-very stiff to hard				26
		4		
		5	4.00	23
		7	B	
becoming gray @ -3.0'				
		3		
		4	3.00	17
	-5	5	P	
		6		
		6	3.00	17
		6	P	
		4		
		5	2.20	21
	-10	10	B	
635.55				
SILTY CLAY LOAM-brown & gray-very stiff to hard				
		5		
		6		15
		7		
		6		
		6	4.50	17
	-15	29	P	
630.05				
Auger Refusal @ -16.0'. 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)

BBS, form 137 (Rev. 8-99)

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SOIL BORING LOG

Date 2/21/22

FAI Route 80 from Chicago Street to US

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** 1765187.481, **Easting** 1062510.657

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

STRUCT. NO. - **Station** -

BORING NO. NWB-035 **Station** 104+97 **Offset** 10.4 ft Right **Ground Surface Elev.** 644.55 ft

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

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black	644.05				
CLAY LOAM-brown & gray-stiff					35
			3		
			4 6	1.80 B	22
	641.55				
SILTY CLAY LOAM-brown & gray-stiff			3		
			5 5	1.75 P	26
		-5			
	639.05				
CLAY LOAM-brown & gray-very stiff			4		
			5 7	3.50 P	22
			6		
			6 9	3.00 P	21
		-10			
			4		
			5 7	3.00 P	23
	631.55				
CLAY LOAM with Gravel-brown & gray-very stiff			4		
			8 8	2.00 P	18
		-15			
	629.05				
SILTY SAND & FRACTURED ROCK-very dense	628.05		50/1"		
Auger Refusal @ -16.5'. Possible Bedrock. End Of Boring. Boring backfilled with cuttings.					16
		-20			

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

BBS, form 137 (Rev. 8-99)

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

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SOIL BORING LOG

Date 2/21/22

FAI Route 80 from Chicago Street to US

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

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
643.97				4.0" TOPSOIL-black
			31	SILTY CLAY-dark brown-stiff
	3			
	3 4	1.00 P	27	
641.30				
				CLAY LOAM-brown-stiff to very stiff
	5			
-5	8 11	3.50 P	21	
	5			
	6 8	3.00 P	21	
	3			
-10	3 7	3.50 P	22	
	5			
	7 9	2.40 B	21	
	3			becoming gray @ -13.0'
-15	4 6	2.50 P	16	
	4			
	6 8	3.00 P	17	
626.30				
	50/1"			FRACTURED ROCK-very dense
624.80			9	
-20				Auger Refusal @ -19.5'. Possible

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Bedrock. End Of Boring. Boring backfilled with cuttings.
-25				
-30				
-35				
-40				

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)

BBS, form 137 (Rev. 8-99)

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

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SOIL BORING LOG

Date 2/21/22

FAI Route 80 from Chicago Street to US

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

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black 641.96				
CLAY LOAM-brown-stiff to very stiff				27
		3		
		4 7	2.50 P	20
		5		
	-5	8 9	2.70 B	20
		4		
		4 5	1.50 P	20
		3		
	-10	3 5	1.50 P	25
		5		
		5 7	3.00 P	26
		5		
	-15	3 4	1.00 P	25
		4		
		6 10	2.00 P	17
623.46		6		
Auger Refusal @ -19.0'. Possible Bedrock. End Of Boring. Boring	-20	50/3"	2.20 B	24

backfilled with cuttings.

-25 -30 -35 -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

Date 2/15/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-038
Station 824+04
Offset 123.2 ft Left
Ground Surface Elev. 634.76 ft

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

Groundwater Elev.:
First Encounter 627.757 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" TOPSOIL-black
633.76			37	
	3			SILTY CLAY-brown & gray-stiff
	4 6	1.20 B	25	
631.76				
	1			LOAM-brown & gray-very loose to loose
	2 2		23	
-5				
	4			becoming gray @ -5.5'
▼	3 3		27	
626.76				
	3			SILTY CLAY-gray-stiff
	3 3	1.25 P	24	
-10				
624.26				
	2			SILTY SAND with Gravel-gray-loose
	3 2		28	
	4			
	3 3		22	
-15				
	3			
	3 4		15	
616.76				
	3			SILT-gray-loose
	4 3		24	
-20				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
614.26				
	3			SILTY CLAY-gray-stiff
	4 5	1.50 P	21	
611.76				
	4			SILTY LOAM-gray-medium dense
	6 5		17	
609.76 -25				
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-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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Date 2/15/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-039
Station 826+04
Offset 114 ft Left
Ground Surface Elev. 639.41 ft

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

Groundwater Elev.:
First Encounter 630.909 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" TOPSOIL-black
638.41			29	
	3			CLAY LOAM-brown & gray-stiff
	3	1.10	21	
	3	B		
636.41				
				SANDY CLAY LOAM-brown & gray-medium stiff
	1			
	2	0.50	23	
-5	2	P		
633.91				
				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	
-20	6	P		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
618.91				
				SAND-brown-medium dense
	5			
	10		25	
	10			
	6			
	3		17	
614.41 -25	10			
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

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

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SOIL BORING LOG

Date 2/15/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-040
Station 828+02
Offset 109.5 ft Left
Ground Surface Elev. 634.46 ft

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

Groundwater Elev.:
First Encounter 627.459 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" TOPSOIL-black
633.46			43	
	3			SILTY CLAY-brown & gray-stiff
	3 3	1.75 P	23	
631.46				
	1			SANDY LOAM-brown & gray-very loose
-5	2 2		18	
628.96				
	3			SILTY CLAY-gray-medium stiff
▼	2 3	0.80 B	27	
626.46				
	3			CLAY LOAM-gray-stiff to very stiff
-10	4 4	1.30 B	25	
	3			
	4 7	2.50 P	24	
621.46				
	2			SAND-gray-loose
-15	3 5		23	
618.96				
	3			CLAY LOAM-gray-very stiff
	5 11	2.10 B	20	
	4			
-20	5 9	3.25 P	27	
613.96				SAND-gray-medium dense
	4			
	7 11		16	
	3			
609.46 -25	7 9		22	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-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

Date 2/15/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-041
Station 830+03
Offset 98 ft Left
Ground Surface Elev. 633.61 ft

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

Groundwater Elev.:
First Encounter 624.607 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" TOPSOIL-black
632.61			35	
	2			CLAY LOAM-brown & gray-stiff
	3 3	1.00 P	27	
	2			
-5	2 2	1.00 B	29	
	4			
	5 6	1.30 B	23	
625.61				
				SAND-brown- loose
	3			▼
-10	3 3		23	
623.11				
				CLAY-gray-very stiff
	4			
	5 10	2.40 B	20	
	3			
-15	4 6	2.50 P	20	
	3			
	5 6	2.00 P	28	
615.61				
				SAND-gray-medium dense
	4			
-20	7 10		17	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				SAND-gray-medium dense *(continued)*
	5			
	6 7		17	
	4			
608.61 -25	5 6		NR	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

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

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SOIL BORING LOG

Date 2/14/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-042
Station 832+04
Offset 99.8 ft Left
Ground Surface Elev. 633.84 ft

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

Groundwater Elev.:
First Encounter 626.343 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" TOPSOIL-black
632.84			6	
	3			CLAY LOAM-brown & gray-stiff to very stiff
	4 6	1.50 P	24	
	3			
-5	5 6	2.70 B	23	
	3			
	3 5	2.20 B	24	
625.84 ▼				
	3			CLAYEY SAND-brown-loose to medium dense
	3 3		26	
-10				
	4			
	5 6		22	
620.84				
	2			SILTY SAND-brown-loose to medium dense
	3 4		27	
-15				
	3			
	4 5		22	
	3			
	5 6		26	
-20				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
613.34				SAND-gray-medium dense
	4			
	5 6		25	
610.84				CLAY-gray-stiff
	3			
608.84 -25	4 6	1.00 P	26	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

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

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SOIL BORING LOG

Date 2/14/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-043
Station 834+02
Offset 90.7 ft Left
Ground Surface Elev. 633.86 ft

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

Groundwater Elev.:
First Encounter 627.361 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" TOPSOIL-black
632.86			44	
	3			SILTY CLAY-brown & gray-stiff
	2 3	1.25 P	27	
	2			
-5	3 3	1.50 P	26	
628.36				
	1			SILTY SAND & gravel-brown-very loose ▼
	1 1		28	
625.86				
	2			SANDY LOAM-brown-very loose to loose
-10	2 2		30	
	3			
	5 4		23	
620.86				
	3			SILTY SAND with GRAVEL-brown-loose
-15	4 5		16	
	3			
	3 6		24	
615.86				
	12			SAND-brown & gray-dense
-20	14 16		28	
613.36				CLAYEY SAND & GRAVEL-brown-medium dense
	9			
	11 10		16	
610.86				SAND with Gravel-gray-loose
	3			
608.86 -25	4 5		21	End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-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

Date 2/14/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-044
Station 836+03
Offset 65.9 ft Left
Ground Surface Elev. 639.61 ft

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

Groundwater Elev.:
First Encounter 633.108 ft ▼
Upon Completion ft
After - **Hrs.** - ft

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

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

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SOIL BORING LOG

Date 2/14/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-045
Station 838+05
Offset 89.1 ft Left
Ground Surface Elev. 635.14 ft

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

Groundwater Elev.:
First Encounter 628.641 ft ▼
Upon Completion ft
After - **Hrs.** - ft

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

Date 2/21/22

FAI Route 80 from Chicago Street to US

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

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

Groundwater Elev.:
First Encounter 623.334 ft
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				6.0" TOPSOIL-black 646.33
			39	CLAY LOAM-brown & gray-stiff to very stiff
	3			
	3 3	1.00 B	24	
	3			
-5	3 5	1.50 P	23	
	4			
	5 8	2.00 B	21	
	5			
-10	7 13	3.10 B	19	
	4			becoming gray @ -10.5'
	5 7	3.00 P	20	
	6			
-15	6 7	2.75 P	19	
	3			
	4 6	2.50 P	21	
	3			
-20	4 6	2.75 P	21	
				CLAY LOAM-brown & gray-stiff to very stiff *(continued)*
	4			
	5 7	2.50 P	21	
				623.83
	4			SILTY CLAY-gray-very stiff
-25	6 12	2.50 P	20	621.83
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-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

Date 2/23/22

FAI Route 80 from Chicago Street to US

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

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

Groundwater Elev.:
First Encounter 624.352 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				TOPSOIL-black
			39	
	4			
	5 6	2.50 P	35	
642.35				
				CLAY LOAM-brown & gray-very stiff
	5			
-5	5 6	3.00 P	25	
	8			
	10 12	2.25 P	24	
				becoming gray @ -8.0'
	5			
-10	5 6	2.50 P	19	
	4			
	4 5	2.50 P	20	
	6			
-15	4 6	2.25 P	20	
	4			
	5 7	2.50 P	28	
	5			
-20	5 6	3.25 P	21	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-brown & gray-very stiff *(continued)* ▼
	6			
	6 7	2.00 P	22	
622.35				
				SILT-gray-medium dense
	5			
-25	5 6		20	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

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)

BBS, form 137 (Rev. 8-99)

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

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SOIL BORING LOG

Date 2/23/22

FAI Route 80 from Chicago Street to US

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

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

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)

BBS, form 137 (Rev. 8-99)

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

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SOIL BORING LOG

Date 2/23/22

FAI Route 80 from Chicago Street to US

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

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

Groundwater Elev.:
First Encounter 636.341 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				6.0" TOPSOIL-black 644.34
			32	CLAY LOAM-brown & gray-very stiff
	5			
	6 6	2.00 P	23	
	5			
-5	5 7	2.00 P	26	
	5			
	8 8	2.00 P	20	
▼	5			
-10	5 8	2.20 B	20	
	6			becoming gray @ -10.5'
	9 13	2.20 B	17	
	6			
-15	7 7	3.00 P	23	
	4			
	5 6	2.50 P	23	
	4			
-20	4 6	2.00 P	23	
				CLAY LOAM-brown & gray-very stiff *(continued)*
	4			
	7 15	3.00 P	22	
				621.84
	6			SILTY LOAM-gray-medium dense
-25	5 5		17	619.84
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-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

Date 2/23/22

FAI Route 80 from Chicago Street to US

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

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

Groundwater Elev.:
First Encounter 637.66 ft
Upon Completion ft
After - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
5.0" TOPSOIL-black 643.24				
CLAY LOAM-brown & gray-stiff (Fill)				66
		3		
		4 4	1.50 P	29
		3		
	-5	3 5	1.50 P	35
638.16				
CLAY LOAM-brown-stiff to very stiff ▼		4		
		4 7	1.25 P	24
		4		
	-10	7 12	3.00 P	22
		5		
		8 9	3.00 P	23
		4		
	-15	5 7	3.00 P	25
becoming gray @ -15.5'		5		
		5 6	2.50 P	22
		4		
	-20	6 8	2.00 P	22
CLAY LOAM-brown-stiff to very stiff *(continued)*		5		
		7 7	2.50 P	23
620.66				
SILT-gray-loose		4		
	-25	3 3		25
618.66				
End Of Boring @ -25.0'. Boring backfilled with cuttings.	-30			
	-35			
	-40			

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)

BBS, form 137 (Rev. 8-99)

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

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SOIL BORING LOG

Date 2/20/22

FAI Route 80 from Chicago Street to US

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

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

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

Date 2/20/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-052
Station 891+05
Offset 88 ft Left
Ground Surface Elev. 652.34 ft

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

Groundwater Elev.:
First Encounter 645.344 ft
Upon Completion ft
After - **Hrs.** - ft

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

Date 2/20/22

FAI Route 80 from Chicago Street to US

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

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

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

Date 2/20/22

FAI Route 80 from Chicago Street to US

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

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

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

Date 2/9/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-055
Station 897+00
Offset 89.9 ft Left
Ground Surface Elev. 649.05 ft

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

Groundwater Elev.:
First Encounter 628.05 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				TOPSOIL-black
648.05			27	
	2			CLAY LOAM-brown & gray-stiff to very stiff
	2 3	1.00 P	22	
	5			
-5	7 10	3.10 B	14	
	5			
	6 7	1.80 B	22	
	11			
-10	8 6	1.50 P	17	
638.05				
	50/5"			COBBLES & BOULDERS-very dense
636.55			2	
				CLAY LOAM-gray-very stiff
	3			
-15	5 6	2.25 P	19	
	3			
	5 7	2.25 P	22	
	3			
-20	4 7	2.75 P	21	
628.55				
				SILT-gray-medium dense ▼
	3			
	4 6		21	
626.05				
	4			SILTY CLAY LOAM-gray-stiff
624.05 -25	6 7	1.50 P	17	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-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

Date 2/9/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-056
Station 899+03
Offset 86.1 ft Left
Ground Surface Elev. 649.34 ft

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

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

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

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SOIL BORING LOG

Date 2/9/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-057
Station 901+06
Offset 93.8 ft Left
Ground Surface Elev. 649.44 ft

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
				TOPSOIL-black
			33	648.44
	3			SILTY CLAY-black-stiff (Fill)
	3 5	1.20 B	28	
				646.44
				CLAY LOAM-brown & gray-stiff (Fill)
	3			
	3 4	1.20 B	18	
-5				643.94
				SILTY CLAY-dark brown & gray-medium stiff
	2			
	2 3	0.50 P	35	
				641.44
				CLAY LOAM-brown & gray-stiff to very stiff
	2			
	3 4	2.60 B	19	
-10				becoming gray @ -10.5'
	3			
	5 7	2.10 B	19	
	3			
	4 7	3.75 P	21	
-15				
	3			
	5 5	1.75 P	22	
	3			
	3 5	1.50 P	13	
-20				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
				CLAY LOAM-brown & gray-stiff to very stiff *(continued)*
	4			
	5 6	2.00 P	14	
	3			
	4 6	1.30 B	18	
-25				624.44
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

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

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SOIL BORING LOG

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FAI Route 80 from Chicago Street to US

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

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

Groundwater Elev.:
First Encounter 649.452 ft
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				TOPSOIL-black
648.45			65	
	3			CLAY LOAM-brown-very stiff
	6 9	3.10 B	18	
	4			
-5	7 10	3.10 B	17	
	3			
	7 10	2.70 B	19	
	4			becoming gray @ -8.0
-10	7 9	2.70 B	19	
	3			
	4 6	2.50 P	22	
	2			
-15	4 6	2.50 P	22	
	5			
	6 10	3.00 P	18	
	3			
-20	5 6	2.00 P	12	
628.95				CLAY LOAM with Gravel-gray-very dense
	50/2"			
			18	
626.45				CLAY LOAM-gray-very stiff
	3			
624.45 -25	5 6	2.00 P	18	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-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

Date 2/8/22

FAI Route 80 from Chicago Street to US

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

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

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

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)

BBS, form 137 (Rev. 8-99)

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

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SOIL BORING LOG

Date 2/8/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-060
Station 907+04
Offset 98 ft Left
Ground Surface Elev. 649.86 ft

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

Groundwater Elev.:
First Encounter 637.862 ft
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAYEY SAND & GRAVEL-dark brown
			21	648.86
	4			CLAY LOAM-brown & gray-very stiff
	4 5	2.50 P	18	
	4			
-5	6 7	3.50 B	18	
	4			
	5 6	3.50 B	16	
	3			
-10	4 5	3.25 P	18	
	4			becoming gray @ -10.5
▼	4 5	2.75 P	19	
	4			
-15	4 5	2.00 P	22	
	2			
	4 5	2.00 B	22	
	3			
-20	4 6	2.50 P	22	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				629.36
	3			SILTY CLAY LOAM-gray-very stiff
	5 5	2.00 P	14	
				626.86
	4			CLAY LOAM-gray-very stiff
-25	6 9	3.40 B	17	624.86
-30				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-35				
-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

Date 2/8/22

FAI Route 80 from Chicago Street to US

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

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

Groundwater Elev.:
First Encounter 631.131 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
647.63			23
	3		
	5 5	2.50 B	17
	3		
-5	4 4	2.50 B	18
	3		
	5 8	2.70 B	20
	4		
-10	8 12	3.40 B	19
	4		
	7 8	2.50 B	22
	3		
-15	4 5	1.50 P	23
	4		
▼	5 50/1"	1.80 B	18
	3		
-20	5 7	1.75 P	17

CLAYEY TOPSOIL-dark brown & black

CLAY LOAM-brown & gray-stiff to very stiff

becoming gray @ -10.5

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	5		
	6 7	1.80 B	17
	4		
623.63 -25	5 6	2.00 P	20
-30			
-35			
-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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SOIL BORING LOG

Date 2/8/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-062
Station 911+00
Offset 99.2 ft Left
Ground Surface Elev. 643.93 ft

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

Groundwater Elev.:
First Encounter 633.925 ft
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				TOPSOIL-black
642.93			31	
	3			CLAY LOAM-dark brown & gray spotted black-stiff (Fill)
	4 4	1.50 P	31	
	3			
	16 6	1.00 P	18	
-5				
638.43				
	2			CLAY LOAM-brown-stiff to very stiff
	3 4	1.00 P	20	
	3			
	5 7	3.75 P	20	
▼-10				
	4			becoming gray @ -10.5
	6 7	2.20 B	16	
	3			
	3 6	1.80 B	16	
-15				
	3			
	5 7	2.50 B	17	
	3			
	6 9	2.20 B	18	
-20				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-brown-stiff to very stiff *(continued)*
	3			
	5 8	2.20 B	18	
	4			
618.93	6 7	2.10 B	18	
-25				
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-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

Date 2/7/22

FAI Route 80 from Chicago Street to US

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

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

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

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FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-064
Station 915+07
Offset 98.9 ft Left
Ground Surface Elev. 641.30 ft

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

Groundwater Elev.:
First Encounter 630.296 ft
Upon Completion ft
After - **Hrs.** - ft

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

Date 2/7/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-065
Station 916+95
Offset 98.6 ft Left
Ground Surface Elev. 639.97 ft

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

Groundwater Elev.:
First Encounter 626.469 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				TOPSOIL-black
638.97			31	
	2			CLAY LOAM with Stone-brown-very stiff (Fill)
	3 6	2.90 B	17	
636.97				
	3			ORGANIC SILTY CLAY-black-medium stiff
-5	4 7	0.70 B	37	
634.47				
	2			CLAY LOAM-brown & gray-stiff to hard
	2 4	1.90 B	23	
	3			
-10	4 6	4.00 B	18	
	3			
	6 9	3.90 B	22	
▼	4			becoming gray @ -13.0
-15	6 8	3.60 B	20	
	4			
	6 9	3.50 B	18	
	3			
-20	4 6	4.40 B	18	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-brown & gray-stiff to hard *(continued)*
	3			
	2 4	1.10 B	20	
	2			
-25	3 4	1.10 B	20	
614.97				
-30				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-35				
-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

Date 2/24/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-066
Station 922+04
Offset 105.9 ft Right
Ground Surface Elev. 647.29 ft

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

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

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

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SOIL BORING LOG

Date 2/24/22

FAI Route 80 from Chicago Street to US

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

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				3.0" TOPSOIL-black
650.83				
			41	SANDY CLAY LOAM-dark brown-stiff (Fill)
	3			
	3 3	1.00 P	21	
648.08				
				SILTY CLAY LOAM-dark brown & gray-stiff (Fill)
	3			
	1	1.00	32	
-5	2	P		
645.58				
				SILTY SAND & GRAVEL-brown-very loose to loose
	1			
	2 1		22	
	2			
	2		25	
-10	2			
640.58				
				CLAY LOAM-gray-stiff to very stiff
	3			
	4 5	1.50 P	20	
	4			
	6	2.50	19	
-15	8	P		
	7			
	7 9	2.50 P	21	
	5			
	5	3.50	19	
-20	6	P		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-gray-stiff to very stiff *(continued)*
	4			
	5 6	1.00 P	16	
	4			
626.08				
-25	5 6	2.00 P	17	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-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

Date 2/24/22

FAI Route 80 from Chicago Street to US

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

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				5.0" TOPSOIL-black
651.18				
			34	CLAY LOAM-brown-very stiff
	4			
	4 4	2.50 P	24	
648.60				
				SILTY SAND & GRAVEL-brown-very loose to loose
	2			
	3		23	
-5	2			
	2			
	1 1		25	
	0			
	0		24	
-10	1			
641.10				
				CLAY LOAM-gray-very stiff
	4			
	5 8	3.50 P	20	
638.60				
				CLAYEY SAND & GRAVEL-gray-medium dense
	5			
	11		6	
-15	11			
636.10				
				CLAY LOAM-gray-very stiff
	4			
	6 9	3.50 P	16	
	5			
	7	3.00	20	
-20	12	P		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
631.10				SILT-gray-loose
	3			
	3 3		19	
628.60				
				CLAY LOAM-gray-stiff
	3			
	4	1.00	17	
626.60 -25	4	P		
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

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

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SOIL BORING LOG

Date 2/24/22

FAI Route 80 from Chicago Street to US

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 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

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black 650.79				
SILTY CLAY LOAM-dark brown, gray & black-stiff		3		59
		3 4	1.20 B	30
648.29				
CLAY LOAM-brown & gray-stiff		4		
	-5	4 5	1.50 P	18
645.79				
SILTY GRAVEL-brown-dense		3		
		5 29		7
643.29				
SILTY CLAY LOAM-gray-stiff		3		
	-10	3 4	1.00 P	20
640.79				
CLAY LOAM-gray-stiff		2		
		5 5	1.00 P	21
		4		
	-15	4 6	2.00 P	23
		3		
		4 7	1.80 B	22
633.29				
SILT-gray-very loose		1		
	-20	1 1		19
630.79				
CLAY LOAM-gray-very stiff		6		
		8 12	2.50 P	19
		4		
	-25	5 6	2.00 P	13
626.29				
End Of Boring @ -25.0'. Boring backfilled with cuttings.	-30			
	-35			
	-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

Date 2/28/22

FAI Route 80 from Chicago Street to US

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

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 (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				6.0" TOPSOIL-black 653.03
			34	GRAVEL & STONE-brown & black-loose (Fill)
	4			
	3 4		24	
				650.53
				CLAY LOAM-brown-very stiff
	4			
-5	5 6	2.00 P	30	
	3			
	3 5	2.50 P	6	
	5			
-10	6 7	2.10 B	16	
	3			becoming gray @ -8.0'
	3 6	2.00 P	15	
	3			
-15	4 6	2.00 P	19	
	4			
	5 7	2.00 P	19	
	3			
-20	4 5	2.00 P	17	
				CLAY LOAM-brown-very stiff *(continued)*
	3			
	5 7	2.50 P	19	
	3			
-25	5 6	2.50 P	18	628.53
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-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

Date 2/28/22

FAI Route 80 from Chicago Street to US

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

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

Groundwater Elev.:
First Encounter 634.523 ft ▼
Upon Completion ft
After - **Hrs.** - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
655.02				6.0" TOPSOIL-black
			32	CLAY LOAM-dark brown & gray spotted-very stiff (Fill)
	3			
	3 4	2.00 P	29	
652.52				CLAY LOAM-brown & gray-stiff to very stiff
	2			
-5	2 3	1.50 P	19	
	4			
	4 9	3.50 P	18	
	4			
-10	5 7	3.50 P	16	becoming gray @ -10.5'
	5			
	9 14	2.50 P	19	
	4			
-15	5 10	3.50 P	17	
	3			
	4 8	2.00 P	21	
	3			
-20	6 7	3.00 P	18	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
634.52				CLAY LOAM-brown & gray-stiff to very stiff *(continued)* ▼
	4			SILTY SAND & GRAVEL-gray-medium dense
	6 13		12	
632.52				CLAY LOAM-gray-very stiff
	6			
630.52 -25	6 5	2.00 P	17	End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-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

Date 2/28/22

FAI Route 80 from Chicago Street to US

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

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
659.11				6.0" TOPSOIL-black
			35	SILTY CLAY-dark brown-stiff
	3			
	4 5	1.50 P	28	
	7			
-5	10 8	1.50 P	24	
654.11				CLAY LOAM-brown-very stiff to hard
	4			
	7 7	3.00 P	16	
▼	4			
-10	5 7	4.00 P	18	
	5			
	7 13	2.00 B	19	
	5			becoming gray @ -13.0'
-15	6 9	2.00 P	18	
	8			
	7 8	2.50 P	18	
	4			
-20	6 6	2.00 P	22	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-brown-very stiff to hard *(continued)*
	8			
	9 10	3.50 P	15	
	9			
634.61 -25	11 14	3.00 P	17	
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-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

Date 2/28/22

FAI Route 80 from Chicago Street to US

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

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				8.0" TOPSOIL-black 648.73
			25	CLAY LOAM-brown-very stiff
	3			
	3 5	2.50 P	24	
	5			
-5	6 7	2.50 P	21	
	4			
	6 8	2.50 P	17	
	5			
-10	6 9	3.00 P	18	
	5			
	7 10	2.20 B	16	
	5			becoming gray @ -13.0'
-15	5 12	2.00 B	18	
	4			
	4 9	2.00 P	17	
	5			
-20	5 8	2.00 P	18	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM-brown-very stiff *(continued)*
	3			
	4 6	3.00 P	14	
	3			
624.40 -25	5 6	2.50 P	15	
-30				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-35				
-40				

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

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SOIL BORING LOG

Date 3/9/22

FAI Route 80 from Chicago Street to US

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** 1766029.1, **Easting** 1076251.9

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** Manual

STRUCT. NO. - **Station** -

BORING NO. NWB-074 **Station** 938+00 **Offset** 142 ft Right **Ground Surface Elev.** 662.00 ft

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY-dark brown & black-very stiff		HA		
			2.00 P	28
660.00				
CLAY LOAM-brown & gray-very stiff		HA		
			3.00 P	20
		HA		
	-5		3.50 P	18
656.00				
Auger Refusal @ -6.0'. End Of Boring. Boring backfilled with cuttings.	-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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SOIL BORING LOG

Date 3/1/22

FAI Route 80 from Chicago Street to US

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. -
Station -

BORING NO. NWB-074A
Station 938+02
Offset 70.2 ft Right
Ground Surface Elev. 647.07 ft

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				13.0" CONCRETE
645.99				
	21			CRUSHED STONE-dense
	25		7	
	4			
644.07				
				CLAY LOAM-brown-very stiff (Fill)
	6			
	6	3.10	15	
-5	6	B		
				becoming gray @ -5.5'
	4			
	7	2.75	18	
	7	P		
	3			
	3	2.00	14	
-10	4	P		
636.57				
				CRUSHED STONE-brown & gray-very dense
	14			
	26		7	
	50/2"			
	17			
	50/5"		8	
-15				
631.57				
				SILTY CLAY-dark gray to gray-medium stiff to stiff
	3			
	4	1.50	26	
	5	P		
	3			
	2	1.00	38	
-20	2	P		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				SILTY CLAY-dark gray to gray-medium stiff to stiff *(continued)*
	2			
	1	0.50	36	
	2	P		
624.07				
				SILTY CLAY LOAM-gray-very stiff
	5			
	5	2.00	24	
622.07 -25	6	P		
				End Of Boring @ -25.0'. Boring backfilled with cuttings.
-30				
-35				
-40				

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

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SOIL BORING LOG

Date 3/9/22

FAI Route 80 from Chicago Street to US

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** 1766138.4, **Easting** 1076251.9

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** Manual

STRUCT. NO. - **Station** -

BORING NO. NWB-075 **Station** 940+00 **Offset** 70.2 ft Right **Ground Surface Elev.** 660.20 ft

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

Groundwater Elev.: **First Encounter** 654.2 ft ▼ **Upon Completion** ft **After** - **Hrs.** - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
9.0" TOPSOIL-black		HA		
659.45				20
CLAY LOAM-brown & gray-stiff to very stiff (Fill)		HA		
			1.00 P	22
		HA		
			2.00 P	28
655.70				
SILTY CLAY-brown & gray-stiff	-5	HA		
			1.00 P	21
654.20 ▼				
CLAY LOAM-brown-stiff		HA		
			1.50 P	24
		HA		
			1.50 P	23
650.20	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.	-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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SOIL BORING LOG

Date 3/1/22

FAI Route 80 from Chicago Street to US

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

STRUCT. NO. -
Station -

BORING NO. NWB-075A
Station 939+96
Offset 70.2 ft Right
Ground Surface Elev. 644.27 ft

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

Groundwater Elev.:
First Encounter 633.269 ft ▼
Upon Completion ft
After - **Hrs.** - ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
14.0" CONCRETE					
	643.10				
			32		
CRUSHED ASPHALT & STONE-dense			27 27		5
	640.77				
CLAY LOAM-brown-hard (Fill)	640.27		9	4.50	11
			50/1"	P	
Borehole continued with rock coring.		-5			
		-10			
		-15			
		-20			

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

BBS, form 137 (Rev. 8-99)

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

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ROCK CORE LOG

Date 3/1/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 in
Top of Rock Elev. 640.27 ft
Begin Core Elev. 640.27 ft

BORING NO. NWB-075A
Station 939+96
Offset 70.2 ft Right
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 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. 630.27	1	100	4		320.00
End Of Boring @ -14.0'. Boring backfilled with cuttings. End of Boring					

-5
-10
-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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ROCK CORE LOG

Date 3/1/22

FAI Route 80 from Chicago Street to US

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

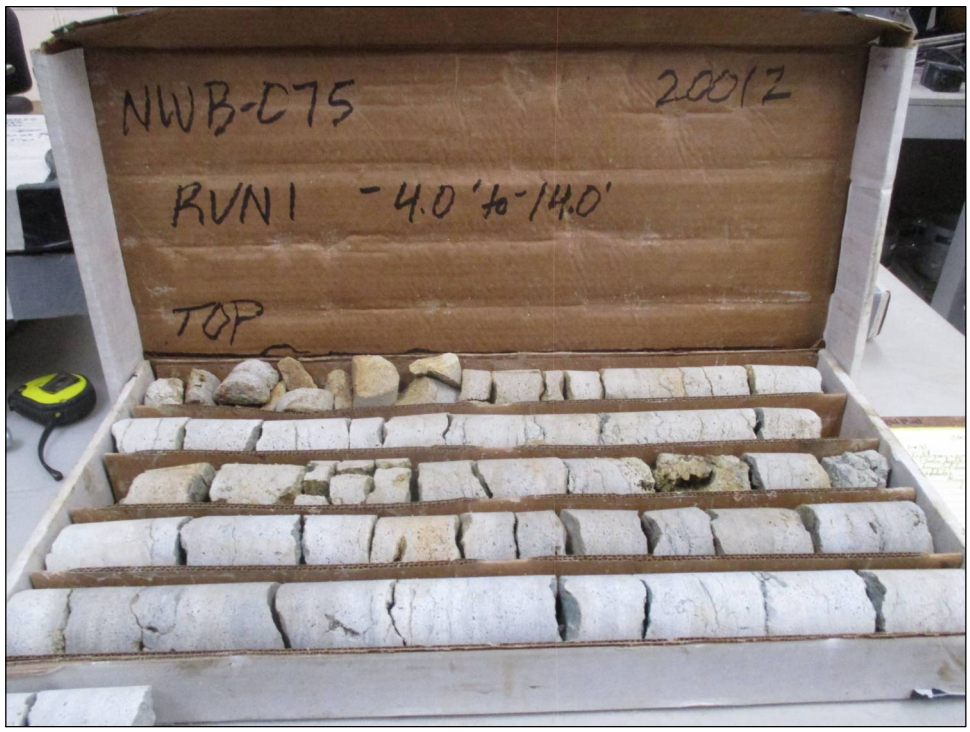
SECTION 17 **LOCATION** SW 1/4, **SEC.** 17, **TWP.** T35N, **RNG.** R11E, 3rd **PM**,
Northing 1766196.618, **Easting** 1076386.226

COUNTY Will **CORING METHOD** Rotary Wash

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

Core Diameter 2 **in**
Top of Rock Elev. 640.27 **ft**
Begin Core Elev. 640.27 **ft**

BORING NO. NWB-075A
Station 939+96
Offset 70.2 ft Right
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)

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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

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

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

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

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
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	-5	HA	1.00 P	6
CLAY LOAM-brown-hard			HA	4.50 P	20
			HA	4.50 P	17
	645.70	-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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SOIL BORING LOG

Date 3/1/22

FAI Route 80 from Chicago Street to US

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

STRUCT. NO. -
Station -

BORING NO. NWB-076A
Station 941+95
Offset 71.3 ft Right
Ground Surface Elev. 640.57 ft

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

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
14.0" CONCRETE					
	639.40				
CRUSHED ASPHALT & STONE-dense			36		
			23		5
			23		
	637.57				
FRACTURED ROCK-brown-very dense	636.57		21		
Drillers Observation: Apparent Bedrock			35		5
	635.57	-5	50/2"		
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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(630) 355-2838

ROCK CORE LOG

Date 3/1/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 in
Top of Rock Elev. 636.57 ft
Begin Core Elev. 635.57 ft

BORING NO. NWB-076A
Station 941+95
Offset 71.3 ft Right
Ground Surface Elev. 640.57 ft

		DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-5.0' to -15.0') SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray to gray & porous with horizontal to wavy bedding. Highly weathered to -10.4 with rust staining to -9.6'.	635.57		1	84	33		543.00
		-10					
	625.57	-15					
End Of Boring @ -15.0'. 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)

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

ROCK CORE LOG

Date 3/1/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 in
Top of Rock Elev. 636.57 ft
Begin Core Elev. 635.57 ft

BORING NO. NWB-076A
Station 941+95
Offset 71.3 ft Right
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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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

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** 1766383.2, **Easting** 1076762.9

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. - **Station** -

BORING NO. NWB-077 **Station** 944+00 **Offset** 141.1 ft Right **Ground Surface Elev.** 651.90 ft

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

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

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" TOPSOIL-black	651.23		HA		
CLAY LOAM-brown-stiff to very stiff			HA		40
				1.75 P	19
			HA		
				2.50 P	17
			HA		
		-5		2.50 P	22
			HA		
				1.75 P	14
	643.40				
Auger Refusal @ -8.5'. 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)

BBS, form 137 (Rev. 8-99)

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SOIL BORING LOG

Date 3/2/22

FAI Route 80 from Chicago Street to US

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

STRUCT. NO. -
Station -

BORING NO. NWB-077A
Station 943+90
Offset 70 ft Right
Ground Surface Elev. 636.25 ft

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
14.0" CONCRETE				
635.08				
		28		
CRUSHED ASPHALT & STONE-dense		28 15		8
632.75				
Drillers Observation: Apparent Bedrock 632.25		50/0"		NR
Borehole continued with rock coring.	-5			
	-10			
	-15			
	-20			

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

BBS, form 137 (Rev. 8-99)

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

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ROCK CORE LOG

Date 3/2/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 in
Top of Rock Elev. 632.75 ft
Begin Core Elev. 632.25 ft

BORING NO. NWB-077A
Station 943+90
Offset 70 ft Right
Ground Surface Elev. 636.25 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-4.0' to -14.0') 632.25 SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray & porous with horizontal bedding. Some vugs & rust staining with few horizontal fractures.	1	100	94		418.00
-5					
-10					
622.25					
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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ROCK CORE LOG

Date 3/2/22

FAI Route 80 from Chicago Street to US

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 -

Core Diameter 2 **in**
Top of Rock Elev. 632.75 **ft**
Begin Core Elev. 632.25 **ft**

BORING NO. NWB-077A
Station 943+90
Offset 70 ft Right
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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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

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**,
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

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

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

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black	655.70		HA		31
CLAY LOAM-brown-stiff to hard			HA		
				2.00 P	19
			HA		
				2.50 P	19
			HA		
		-5		4.50 P	20
			HA		
				1.50 P	13
			HA		
				3.00 P	14
	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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SOIL BORING LOG

Date 3/3/22

FAI Route 80 from Chicago Street to US

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**,
Northing 1766522.793, **Easting** 1076819.589

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

STRUCT. NO. -
Station -

BORING NO. NWB-078A
Station 945+30
Offset 69.3 ft Right
Ground Surface Elev. 633.98 ft

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
16.0" CONCRETE				
632.65		16		
CRUSHED STONE-loose to dense		25		4
		16		
		6		
		4		5
	-5	4		
627.48		10		
Borehole continued with rock coring.		50/3"		
	-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

Date 3/3/22

FAI Route 80 from Chicago Street to US

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**,
Northing 1766522.793, **Easting** 1076819.589

COUNTY Will **CORING METHOD** Rotary Wash

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

Core Diameter 2 in
Top of Rock Elev. 627.48 ft
Begin Core Elev. 640.58 ft

BORING NO. NWB-078A
Station 945+30
Offset 69.3 ft Right
Ground Surface Elev. 633.98 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
627.48 RUN 1 (-6.0' to -16.5') SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray & porous with horizontal bedding. Some vugs horizontal fractures throughout.	1	99	81		569.00
-10					
-15					
617.48 End Of Boring @ -16.5'. 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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ROCK CORE LOG

Date 3/3/22

FAI Route 80 from Chicago Street to US

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**,
Northing 1766522.793, **Easting** 1076819.589

COUNTY Will **CORING METHOD** Rotary Wash

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

Core Diameter 2 **in**
Top of Rock Elev. 627.48 **ft**
Begin Core Elev. 640.58 **ft**

BORING NO. NWB-078A
Station 945+30
Offset 69.3 ft Right
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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SOIL BORING LOG

Date 3/14/22

FAI Route 80 from Chicago Street to US

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**,
Northing 1766587.1, **Easting** 1076994.2

COUNTY Will **DRILLING METHOD** Hand Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-079
Station 947+00
Offset 138.7 ft Right
Ground Surface Elev. 657.00 ft

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

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black	HA		
656.00	HA		30
CLAY LOAM-dark brown to brown-very stiff (Fill)		2.75 P	11
	HA		
		3.00 P	16
	HA		
-5		3.25 P	20
	HA		
		2.00 P	23
649.00			
Auger Refusal @ -8.0'. End Of Boring.			
-10			
-15			
-20			

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

BBS, form 137 (Rev. 8-99)

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

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SOIL BORING LOG

Date 3/3/22

FAI Route 80 from Chicago Street to US

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**,
Northing 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

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
15.0" CONCRETE				
632.08				
		14		
CRUSHED STONE-dense		16		6
		17		
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)

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ROCK CORE LOG

Date 3/3/22

ROUTE FAI Route 80 from 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. -
Station -

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft

Core Diameter 2 **in**
Top of Rock Elev. 628.68 **ft**
Begin Core Elev. 629.33 **ft**

BORING NO. NWB-079A
Station 947+18
Offset 75.3 ft Right
Ground Surface Elev. 633.33 **ft**

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-4.0' to -14.0') (-4.0' to -4.65') Concrete (-4.65' to -14.0') SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray & porous with horizontal bedding. Weathered with rust staining below -8.0'. Some horizontal fractures throughout.	629.33 619.33	-5 -10	1	100	59		598.00
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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ROCK CORE LOG

Date 3/3/22

ROUTE FAI Route 80 from 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 -

Core Diameter 2 in
Top of Rock Elev. 628.68 ft
Begin Core Elev. 629.33 ft

BORING NO. NWB-079A
Station 947+18
Offset 75.3 ft Right
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 9

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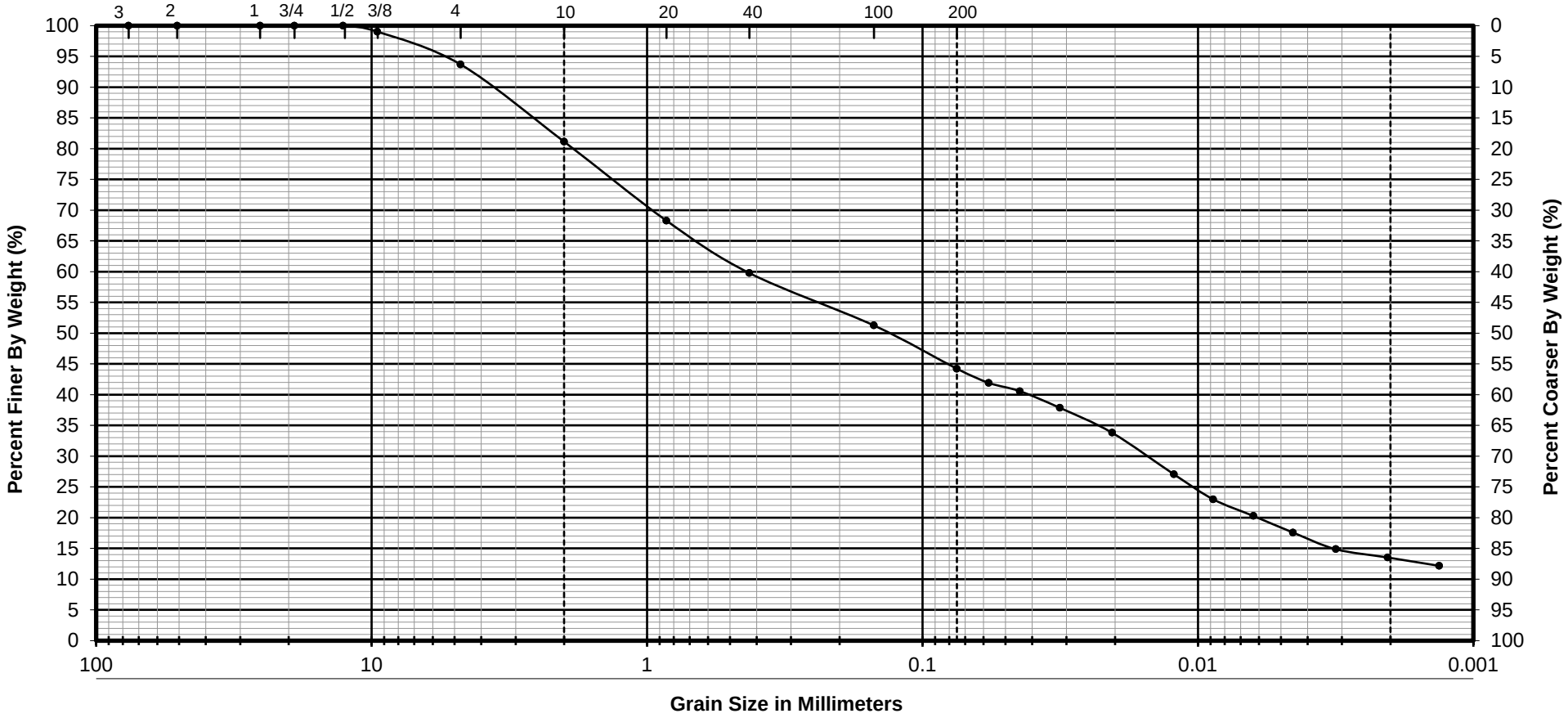

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-08	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	5			
Depth	8.5'-10.0'	SANDY LOAM		Proposed Retaining Wall No. 1
Liquid Limit	18	A-4		N of W.B I-80 and East of Gardner St
Plastic Limit	15	brown/gray		Will County, Illinois
Plasticity Index	3	Group Index	0	
Test By	MT	% Gravel	18.9	
Date	4/21/22	% Sand	36.9	
Reviewed By	RS	% Silt	30.7	1235 E. Davis St., Arlington Heights, IL 60005
Job No	20012	% Clay	13.5	Phone 847-253-3845 ● Fax 847-253-0482

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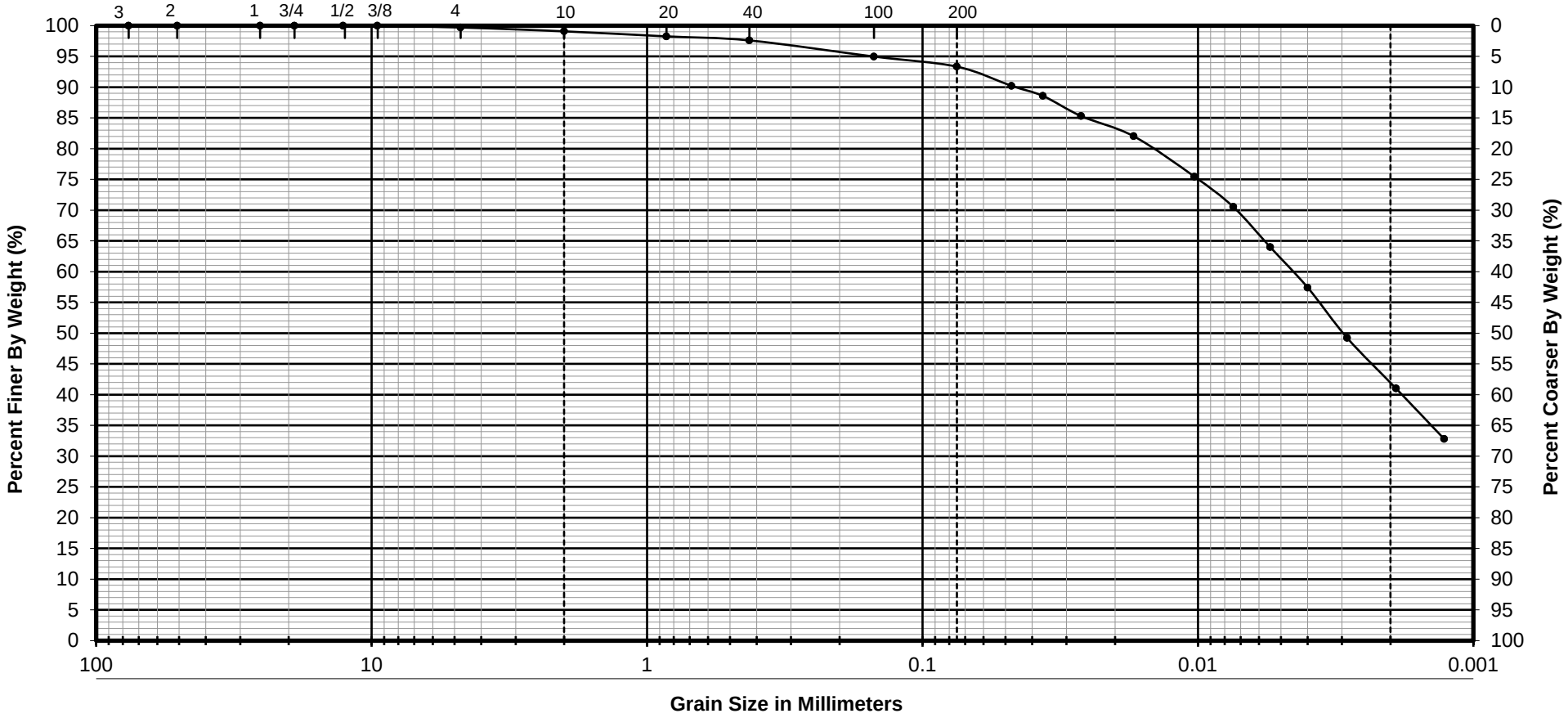

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-18A	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3			
Depth	3.5'-5.0'	SILTY CLAY		Proposed Retaining Wall No. 1
Liquid Limit	36	A-6		N of W.B I-80 and East of Gardner St
Plastic Limit	20	brown/gray		Will County, Illinois
Plasticity Index	16	Group Index	15	
Test By	MT	% Gravel	0.9	
Date	4/21/22	% Sand	5.7	
Reviewed By	RS	% Silt	52.3	1235 E. Davis St., Arlington Heights, IL 60005
Job No	20012	% Clay	41.0	Phone 847-253-3845 ● Fax 847-253-0482

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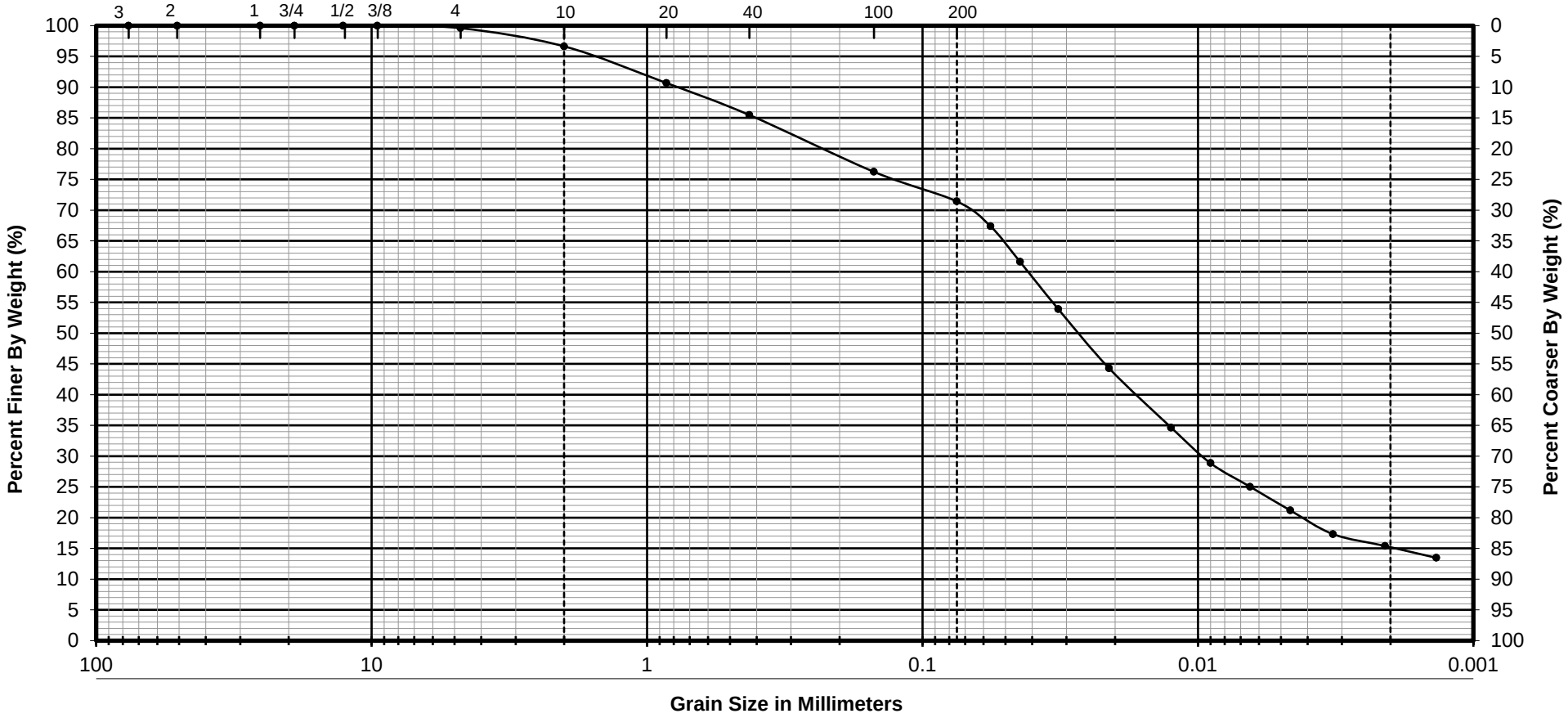

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-25A	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	1			
Depth	0-2.0	SILTY LOAM		Proposed Retaining Wall No. 1
Liquid Limit	47	A-7		N of W.B I-80 and East of Gardner St
Plastic Limit	36	brown/black		Will County, Illinois
Plasticity Index	11	Group Index	9	
Test By	MT	% Gravel	3.4	
Date	4/21/22	% Sand	25.2	
Reviewed By	RS	% Silt	56.0	1235 E. Davis St., Arlington Heights, IL 60005
Job No	20012	% Clay	15.4	Phone 847-253-3845 ● Fax 847-253-0482

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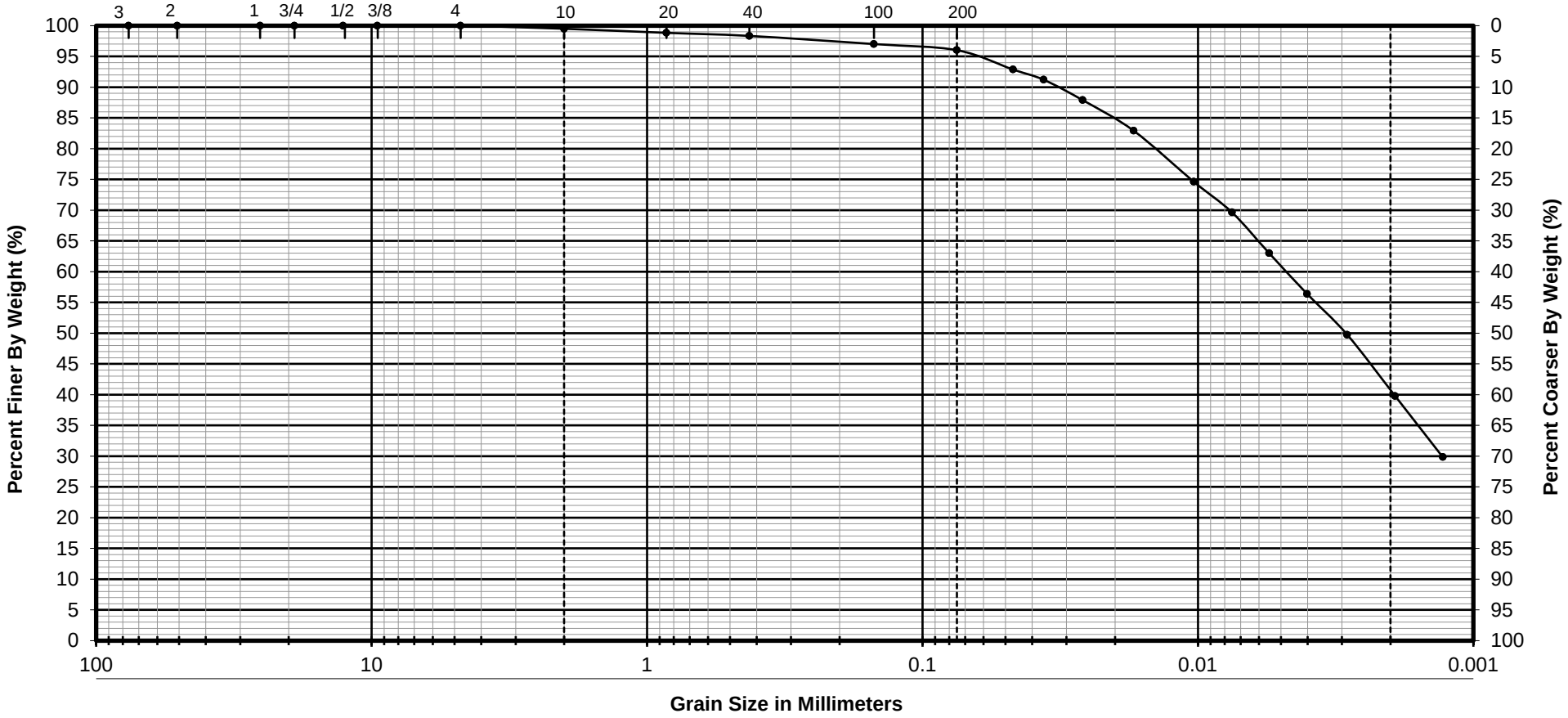

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-45	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	1			
Depth	1.0'-2.5'	SILTY CLAY		Proposed Retaining Wall No. 1
Liquid Limit	30	A-6		N of W.B I-80 and East of Gardner St
Plastic Limit	17	gray		Will County, Illinois
Plasticity Index	13	Group Index	12	
Test By	MT	% Gravel	0.5	
Date	4/21/22	% Sand	3.5	
Reviewed By	RS	% Silt	56.2	1235 E. Davis St., Arlington Heights, IL 60005
Job No	20012	% Clay	39.8	Phone 847-253-3845 ● Fax 847-253-0482

Geo Services, Inc.
Geotechnical, Environmental and Civil Engineering
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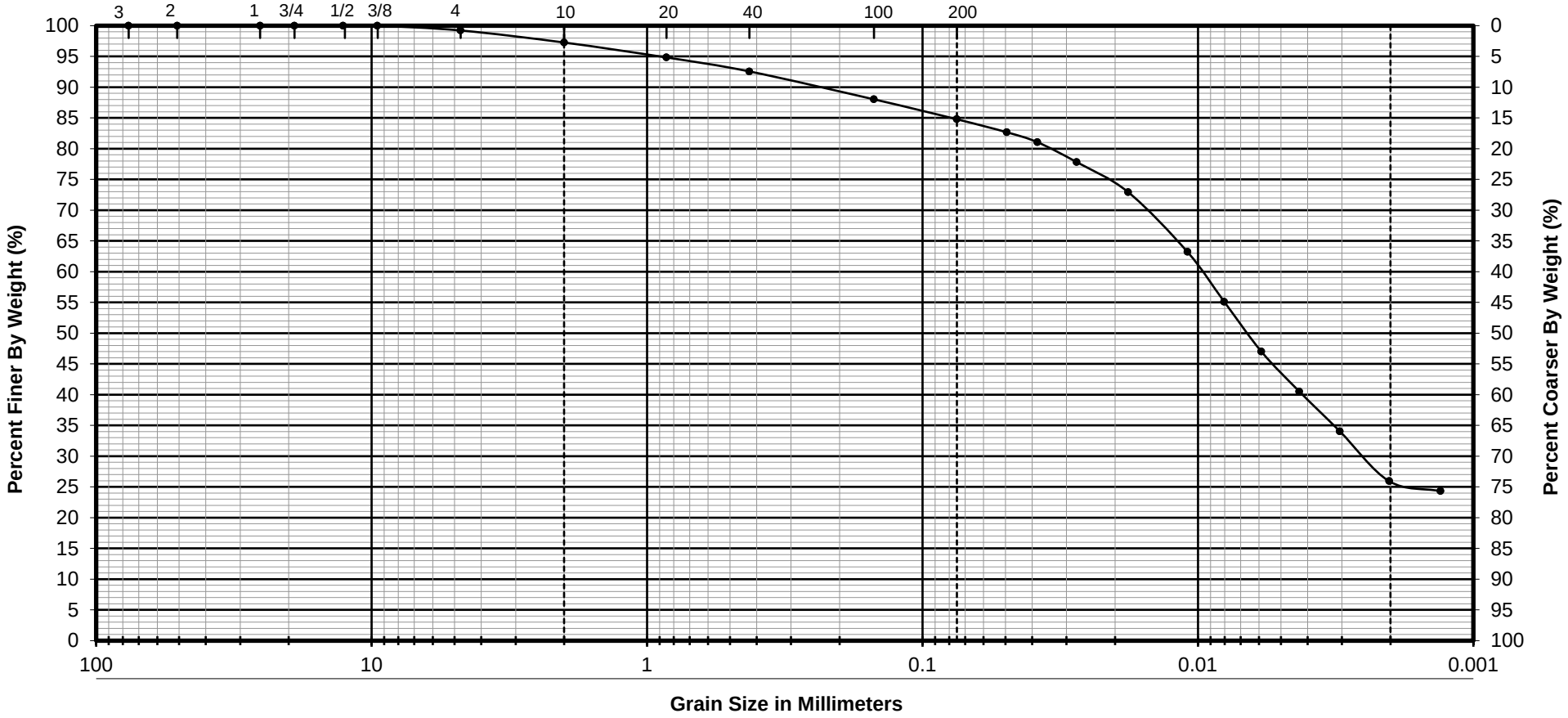

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-65	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	2			
Depth	1.0'-2.5'	SILTY CLAY LOAM		Proposed Retaining Wall No. 1
Liquid Limit	28	A-6		N of W.B I-80 and East of Gardner St
Plastic Limit	17	brown/gray		Will County, Illinois
Plasticity Index	11	Group Index	8	
Test By	MT	% Gravel	2.7	
Date	4/21/22	% Sand	12.5	
Reviewed By	RS	% Silt	58.8	
Job No	20012	% Clay	25.9	

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

GRAVEL	SAND		SILT	CLAY
	COARSE	FINE		

Boring No.	NWB-75A	CLASSIFICATION		PARTICLE SIZE ANALYSIS-AASHTO T88
Sample No.	3			
Depth	3.5'-5.0'	SILTY LOAM		Proposed Retaining Wall No. 1
Liquid Limit	40	A-6		N of W.B I-80 and East of Gardner St
Plastic Limit	21	brown/gray		Will County, Illinois
Plasticity Index	19	Group Index	14	
Test By	MT	% Gravel	4.8	
Date	4/21/22	% Sand	19.3	
Reviewed By	RS	% Silt	61.6	1235 E. Davis St., Arlington Heights, IL 60005
Job No	20012	% Clay	14.3	Phone 847-253-3845 ● Fax 847-253-0482

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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