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August 30, 2023

Daniel Filice, PE
Two Prudential Plaza
180 N. Stetson Avenue
Suite 3700
Chicago, IL 60601

Dear Mr. Filice,

This report presents the results of the subsurface exploration, laboratory testing, geotechnical evaluations, and recommendations for the design and construction of fourteen (14) proposed noise abatement walls along US Route 20 in Elgin Illinois, between Logcommon Parkway and Villa Street. The Noise Abatement Walls (NAWs) are designated as Barriers, numbered 1 through 20. A Site Location Map is presented as Exhibits 1 through 3, along with Draft Noise Abatement Wall locations and boring Location Plans in Appendix A. However, Barriers 1, 2, 3, 8, and 19 were determined unnecessary and, therefore, are excluded from this memorandum. Additionally, barriers 11 and 13 were combine into one wall, identified as B11+B13. Table 1 shows the locations of the walls, the wall's stations, maximum wall height, and number of borings advanced for each wall. It should be noted that the offset of all the walls has not been finalized at this time. However, walls B10, B11+B13, B12 have been finalized and the location of the borings can be found on the draft plans in Appendix A and on the boring logs in Appendix B.

The purpose of our exploration was to characterize the subsurface conditions across the site, including the soil type, strength, and groundwater conditions. This Geotechnical Memorandum includes the results of the exploration, geotechnical analyses, and performance recommendations to aid in the Contractor's design and construction of the new noise abatement walls.

Table 1: Listing of Proposed Barrier

Wall ID	Location (See Appendix A for Stationing)	Max Height (ft)	# Of Borings
Barrier B4	North of US 20 at Longcommon Parkway	21	5
Barrier B5	North of US 20 at Randall Road	13	14
		9	4
		9	4
Barrier B6	North of US 20 from Larkin Avenue to McLean Boulevard	14	30
Barrier B7	North of US 20 from McLean Boulevard to IL Route 31	8	30
		8	6
Barrier B9	North of US 20 from IL Route 31 to Grace Street	12	15
Barrier B10	South of US 20 from Grace Street to Lavoie Avenue	15	7 ¹
Barrier B11 +B13	North of US 20 from Grace Street to east of Huff Elementary School	18	12
Barrier B12	South of US 20 from Lavoie Avenue to stream	16	5
Barrier B14	South of US 20 at Wright Avenue	12	11
Barrier B15	North of US 20 at Wright Avenue	14	7
Barrier B16	North of US 20 at Villa Street Interchange	8	6
Barrier B17	North of US 20 at Villa Street to Shales Parkway	20	22
Barrier B18	South of US 20 at Villa Street	10	5
Barrier B20	South of US 20 East of S McLean Blvd	18	8

1: Note, due to limited access at the site, five of these borings were advanced at the toe of the embankment and will not be useful to designing the embankment soil parameters. However, nearby bridge boring 45-0006-BSB-03 was advanced at the top of the embankment and within wall limits of the west section of Barrier B10. This boring has been included in Appendix B.

Field and Laboratory Investigations

The subsurface exploration was performed by Wang between February 2022 and April 2022. The exploration consisted of 194 soil borings. Most of the borings were drilled to depth of 20.0 to 30.0 feet below ground surface (bgs), with B20-NAW-05B extending to 35.0 feet and B11+13-NAW-03 to 60.0 feet bgs. The as-drilled boring locations are shown on the boring logs presented in Appendix B. An array of Truck, ATV-mounted, and Geoprobe mounted drilling rigs, equipped with hollow stem augers, were used to advanced, and maintain the open boreholes. The hammer efficiencies for the automatic hammers are listed on the boring logs and the Geoprobe rig utilized a cathead hammer. Soil sampling was performed according to AASHTO T 206, "Penetration Test and Split Barrel Sampling of Soils." The soil was sampled at 2.5-foot intervals to the termination



depths, except in B11+13-NAW-03, where sampling below 30.0 feet was at 5-foot intervals. Additionally, due to restricted site access boring B9-NAW-01 was advanced by hand auger.

The field boring logs were prepared and maintained by a Wang Engineering field geologist and included lithological descriptions, visual-manual soil classifications (IDH textural classification), results of pocket penetrometer or Rimac unconfined compressive strength testing on cohesive soils, and Standard Penetration Test (SPT) results recorded as blows per six inches of penetration. Groundwater observations were made during and at the completion of drilling operations. All soil samples were evaluated in Wang's laboratory for moisture content (AASHTO T 265). Particle size analyses (AASHTO T 88) and Atterberg limits (AASHTO T 89/T 90) were performed on selected samples. Field visual descriptions of soil samples were verified in the laboratory and index testing was used to classify according to the IDH Soil Classification System. The laboratory test results are shown on the Boring Logs (Appendix B) and Laboratory Test Results (Appendix C).

Soil and Groundwater Conditions

Detailed descriptions of the soil conditions encountered during the subsurface investigation are presented in the attached Boring Logs (Appendix B). No bedrock was encountered in any of the NAW project borings and water elevation during and after drilling can be found on each boring log. No long-term groundwater reading program was scoped or implemented for this project and the Contractor and Contractor's engineer should use their own judgment when estimating groundwater conditions and their effect on the design and construction of the walls.

The borings for Barrier B4 extended twenty-five to thirty feet below existing grade. Each boring encountered three to twelve inches of topsoil. Underlying the topsoil was medium stiff to hard cohesive soil to a depth of 3.5 to 13.0 feet with an average unconfined compressive strength (Q_u) of 1.55 tons per square foot (tsf) or stiff consistency. Below this was cohesionless soil to termination with an average uncorrected N value of 22 blows per foot (bpf) or medium dense relative density.

The borings for Barrier B5 extended twenty to twenty-five feet below existing grade. Each boring encountered two to twelve inches of topsoil except for B5-Rt34-NAW-01 where twenty-two inches of topsoil was encountered. Underlying the topsoil was a thin stratum of very soft to hard cohesive soil with an average Q_u of 1.83 (stiff); the very soft material

was encountered in Boring B5-NAW-13 at a depth of 5.0 to 9.5 feet. Underlying this layer, 69% of the soil sampled was loose to dense, cohesionless soil with an average uncorrected N value of 17 bpf or medium dense relative density. Possible cobbles were encountered in borings B5-NAW-02, B5-NAW-15, and B5-Rt34-NAW-04 at various depths.

The borings for Barrier B6 extended twenty to twenty-five feet below the existing grade. Each boring encountered three to sixty inches of topsoil. Underlying topsoil was a very soft to very soft to hard cohesive soil with an average Q_u of 1.91 (stiff). The thickest weak layer was encountered in Boring B6-NAW-11 where almost five feet of very soft material was encountered. Underlying the cohesive soil, comprising 75% of the soil sampled, was loose to dense cohesionless soil with an average uncorrected N value of 22 bpf or medium dense relative density. Possible cobbles were encountered in borings B6-NAW-20, B6-NAW-28, and B6-NAW-30 near EL 815.0.

The borings for Barrier B7 extended twenty to 22.5 feet below existing grade. Each boring encountered five to twelve inches of topsoil or seven to eighteen inches of concrete pavement. The underlying soil varies between cohesive soil with an average Q_u of 2.66 tsf (very stiff) and loose to very dense cohesionless soil with an average uncorrected N value of 31 bpf or dense relative density. There were also significant cobbles encountered in borings B7-NAW-01 to B7-NAW-08 between EL 807.0 and EL 822.0.

The borings for Barrier B9 extended sixteen to twenty feet below existing grade. Each boring encountered three inches to twelve inches of topsoil or seven to thirteen inches combined asphalt overlying concrete pavement. The underlying soil varies between cohesive soil with an average Q_u of 2.63 tsf or a very stiff consistency and cohesionless soil with a relative density of loose to very dense with an average uncorrected N value of 38 bpf or dense relative density.

The borings for Barrier B10 extended twenty to twenty-five feet below existing grade. Due to limited access at the site, five of the borings were advanced at the toe of the embankment, not at the soil subgrade of the wall and will be of limited use. However, Bridge Boring 45-0006-BSB-06 was advanced near the wall and near the wall's subgrade and can be used for analysis. Each boring encountered seven inches to twelve inches of topsoil or four to eight inches of pavement. The underlying soil varies between cohesive soil with an average Q_u of 1.92 tsf or a stiff consistency and cohesionless soil with a relative density of loose to very dense, with an average uncorrected N value of 22 bpf or



dense relative density. Possible cobbles were encountered in B10-NAW-06 near EL 733.0 and EL 722.5.

The borings for Barrier B11+B13 extended twenty to sixty feet below existing grade. Each boring encountered four inches to 2.5 feet of topsoil or nine to twelve inches of pavement. The underlying soil varies between very stiff cohesive soil with an average Q_u of 2.75 tsf and loose to very dense cohesionless soil with an average uncorrected N value of 25 bpf or medium dense relative density.

The borings for Barrier B12 extended twenty to thirty feet below existing grade. Each boring encountered three inches to over twelve inches of topsoil. The underlying soil varies between very stiff cohesive soil with an average Q_u of 2.47 tsf and loose to very dense cohesionless soil with an average uncorrected N value of 30 bpf or dense relative density.

The borings for Barrier B14 extended twenty feet below existing grade. Each boring encountered four inches to almost eighteen inches of topsoil. The subsurface profile is predominantly cohesionless with a relative density of loose to very dense and an average uncorrected N value of 25 bpf or medium dense relative density.

The borings for Barrier B15 extended twenty to twenty-five feet below existing grade. Each boring encountered twelve to eighteen inches of topsoil. The subsurface profile is mostly cohesionless with a relative density of loose to very dense with an average uncorrected N value of 24 bpf or medium dense relative density and minor stratum of cohesive soil. However, boring B15-NAW-06 encountered an eight-foot thick very soft to medium stiff layer of silty clay with Q_u of 0.82 tsf from EL 760.2 to 754.7 and less than 0.25 tsf (very soft) between EL 754.7 and EL 753.2.

The borings for Barrier B16 extended twenty feet below existing grade. Each boring encountered twelve to eighteen inches of topsoil. The underlying soil is predominantly medium dense to very dense cohesionless soil with an average uncorrected N value of 32 bpf or dense relative density.

The borings for Barrier B17 extended fifteen to thirty feet below existing grade. Each boring encountered five to eighteen inches of topsoil. The soil profile is mainly medium dense to very dense cohesionless soil with an average uncorrected N value of 22 bpf or medium dense relative density.

The boring for Barrier B18 extended twenty feet below existing grade. Each boring encountered four to thirty-six inches of topsoil. Underlying topsoil, generally, was a thin stratum of very soft to very stiff cohesive soil with an average Q_u of 1.14 (stiff). An eight-foot stratum of very soft to medium stiff soil in boring B18-NAW-03 from EL 765.7 to EL 757.5. Underlying the cohesive soil, comprising 66% of the soil sampled, was loose to dense cohesionless soil with an average uncorrected N value of 21 bpf or medium dense relative density.

Except for boring B20-NAW-05 that was terminated at ten feet after achieving refusal on a possible sewer line, the borings for Barrier B20 extended twenty to thirty-five feet below existing grade. An offset boring B20-NAW-05B was advanced to replace B20-NAW-05. Each boring encountered five to twelve inches of topsoil or eight to ten inches of concrete pavement. The subsurface profile was mostly dense, cohesionless soil with an average uncorrected N value of 37 bpf; however, there was a thinner stratum of cohesive layer underlying the topsoil comprised of very soft to very stiff cohesive soil with an average Q_u of 1.12 tsf.

Engineering Analysis and Recommendations

The noise abatement walls will be designed according IDOT Bridge Design Manual 2023, Section 3.12 *Noise Walls*, which specifies that the contractor is responsible for retaining a Licensed Structural Engineer to design fully detailed noise walls and submit shop drawings to the Bureau of Bridges and Structures for review and approval. The shaft foundations and dimensions shall be determined by the contractor as part of the Shop Drawing submittal.

This section provides the proposed foundation design parameters, including soil unit weight, internal friction angle, and cohesion intercept for inclusion in the plans. The Recommended Soil parameters for Shaft Lateral Load Analysis are presented in Table 2. This table is intended to be used in conjunction with the boring logs to give location specific parameters according to the soil classification in the table and classifications and elevations on the logs. The contractor's engineer shall use Brom's Method with a Factor of Safety of 2.0 with the soil shear strength. Drilled shafts shall be designed and reinforced according to AASHTO LRFD 2020 or IDOT Standard Specifications for Road and Bridge Construction 2022. Posts may be either embedded in or mounted to the shafts with anchor bolts. Lateral Soil Modulus Parameters and soil strain parameters can vary due to

moisture conditions and should be determined by specific location, depth, and reference the water table. Therefore, the parameters required for the analysis via the p-y curve method shall also be determined by the Contractor’s engineer. Boring locations were advanced before the NAW locations were finalized, and some boring locations were shifted due to difficult access. In areas where, in the contractor’s opinion, soils are unidentified due to boring locations, recommended soil parameters according to Special Provision (SP) Noise Abatement Wall, Ground Mounted, revised December 9, 2022 (GBSP101) are presented in Table 2.

Table 2: Recommend Soil parameters for Shaft Lateral Load Analysis

Soil Classification	Moist Unit Weight (kcf)	Saturated Unit Weight (kcf)	Internal Angle of friction (degrees)	Cohesion Intercept (ksf)
Cohesive Soil				
Very Soft to Soft	110	115	0	0.30
Medium Stiff	115	120	0	0.80
Stiff	120	125	0	1.40
Very Stiff	120	125	0	2.60
Hard	125	130	0	4.70
Cohesionless Soil				
Very Loose	105	110	28	0
Loose	110	115	30	0
Medium Dense	115	115	32	0
Dense	120	125	35	0
Very Dense	125	130	38	0
Unidentified Soils				
Per SP Noise Abatement Wall	NA	132.4 ¹	30	0

Note 1: Unbored locations assume saturated with an effective unit weight of 70 pcf.

Qualifications

The analyses and recommendations submitted in this report are based upon the data obtained from the soil borings drilled by Wang Engineering in the boring logs in Appendix B. This report does not reflect any variations that may occur between the borings or



elsewhere on the site and, therefore, the nature and extent of variations may not become evident until the course of construction. If any changes in the design and/or location of the walls are planned and further guidance is required, please do not hesitate to contact us.

We appreciate the opportunity of providing our services to you. If you have any questions, please contact me.

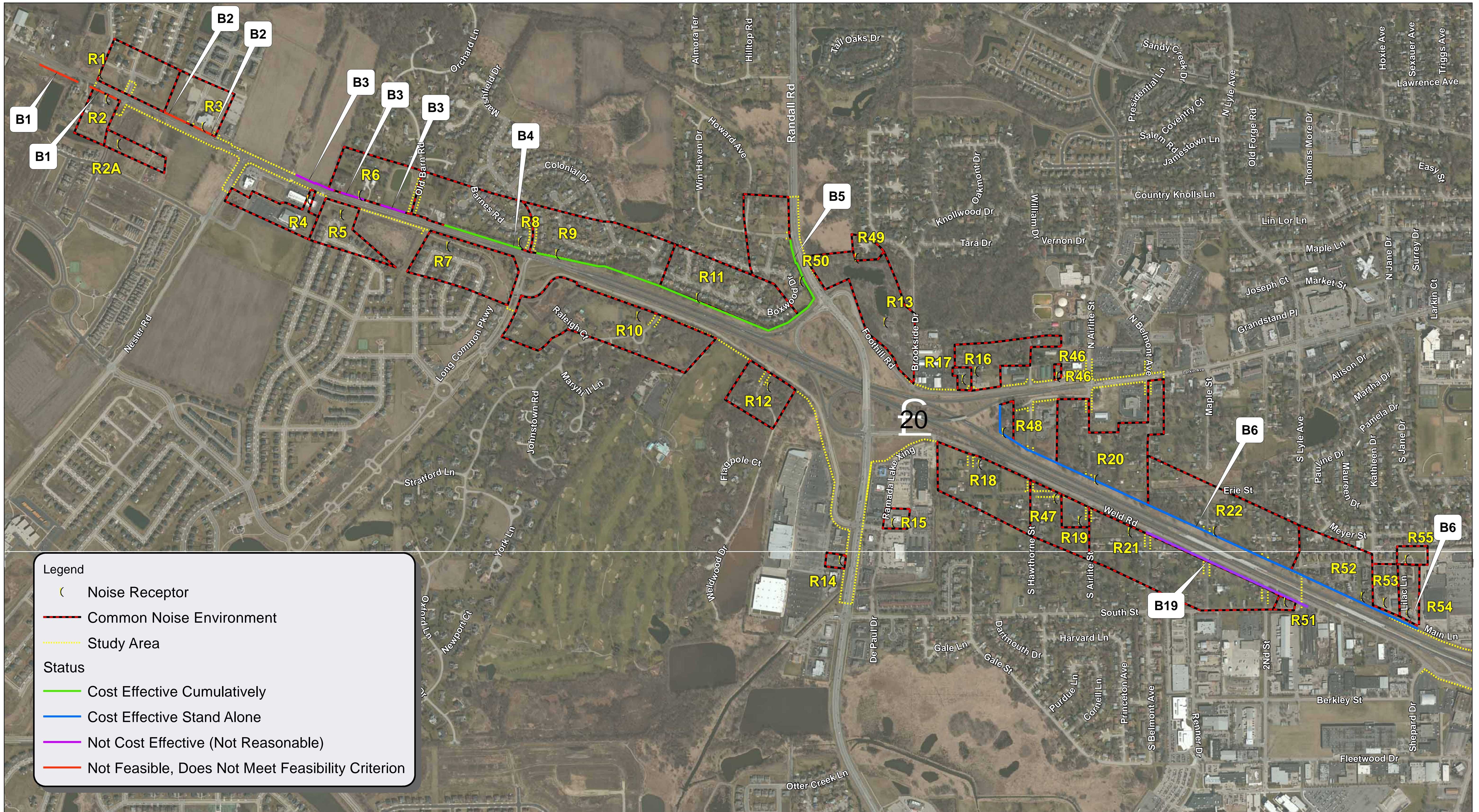
Sincerely,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

A handwritten signature in blue ink, appearing to read "Thomas Monaco".

Thomas L. Monaco, P.E.
Project Manager
Geotechnical Group

**EXHIBITS 1 TO 3:
PHASE 1 LOCATION MAPS**



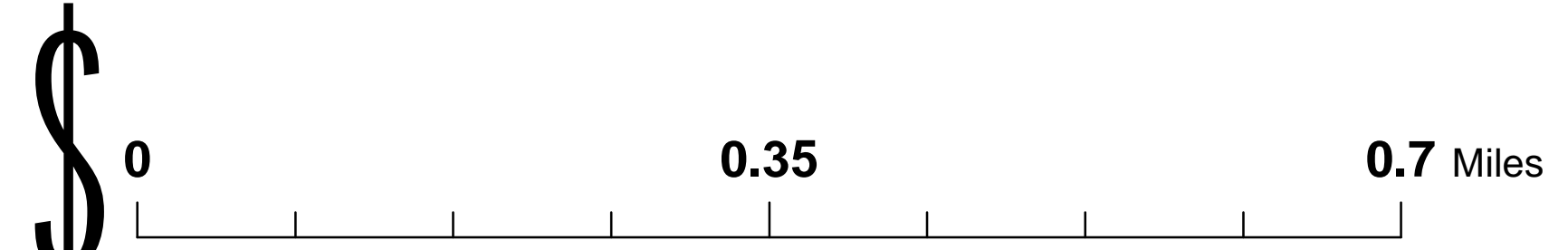
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- (Noise Receptor
- Common Noise Environment
- Study Area

Status

- Cost Effective Cumulatively
- Cost Effective Stand Alone
- Not Cost Effective (Not Reasonable)
- Not Feasible, Does Not Meet Feasibility Criterion

Exhibit 1 of 3
NOISE BARRIER LOCATIONS
U.S. Route 20
Elgin, Kane County, Illinois



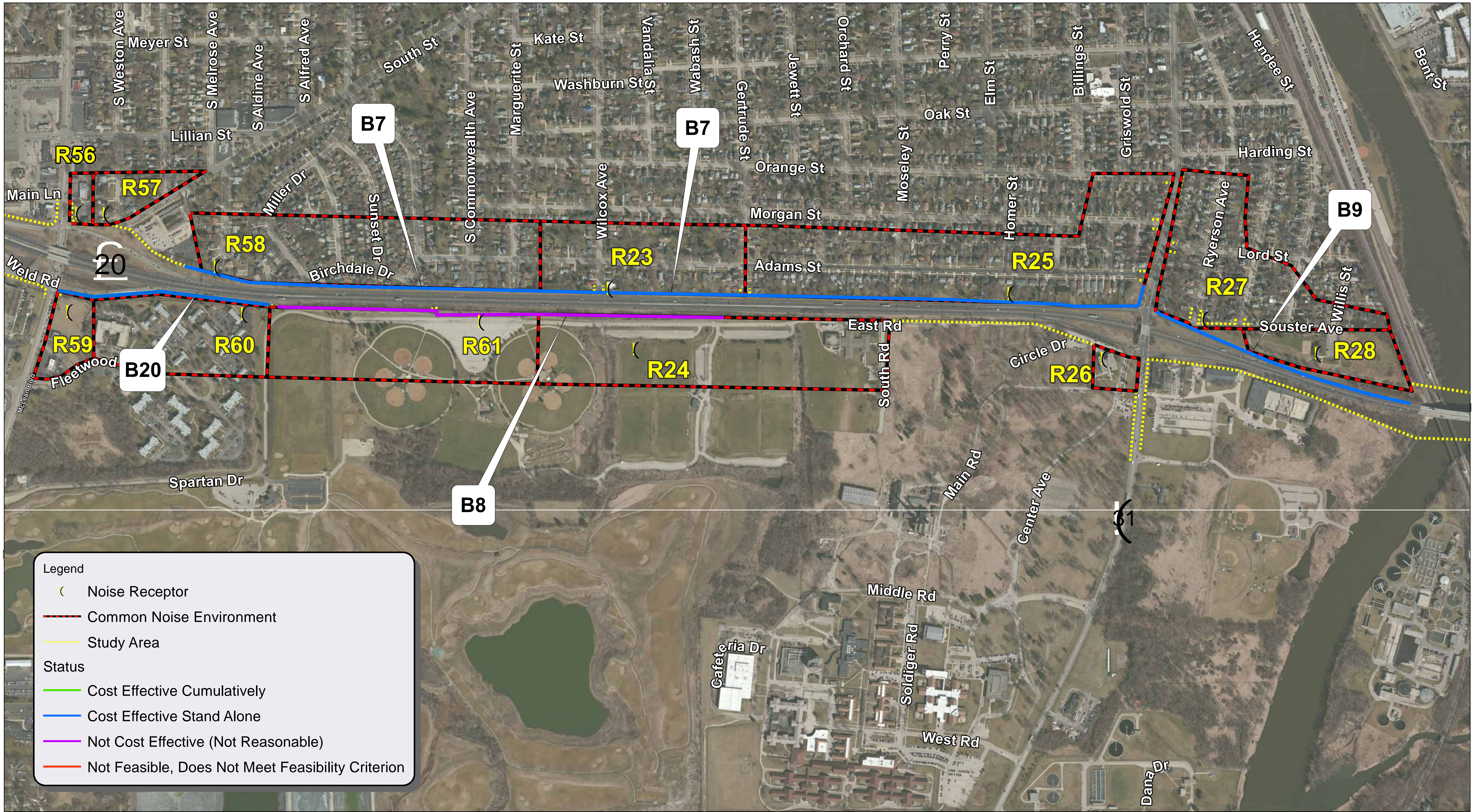
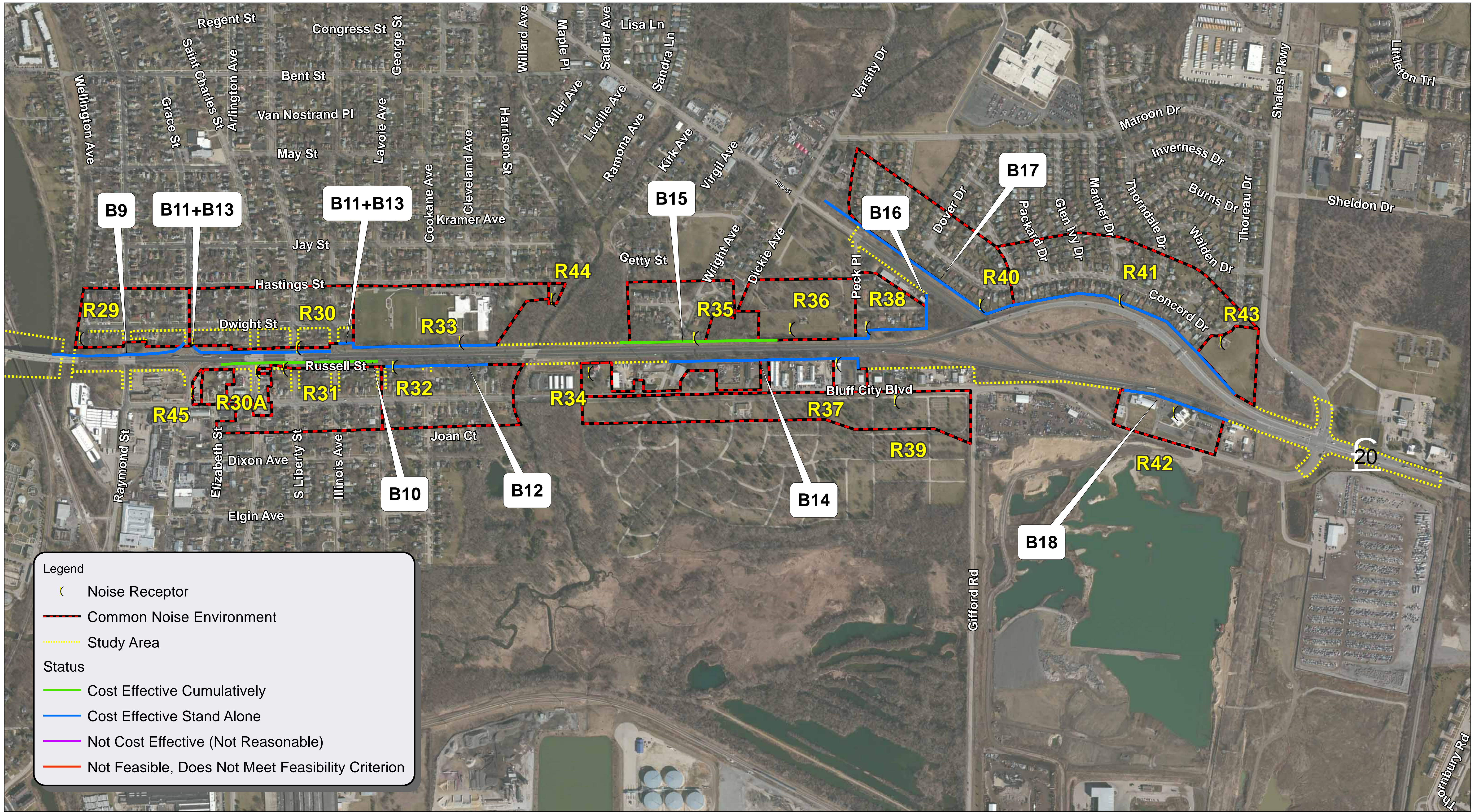


Exhibit 2 of 3
NOISE BARRIER LOCATIONS
 U.S. Route 20
 Elgin, Kane County, Illinois



Legend

- (Noise Receptor
- Common Noise Environment
- Study Area

Status

- Cost Effective Cumulatively
- Cost Effective Stand Alone
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- Not Feasible, Does Not Meet Feasibility Criterion

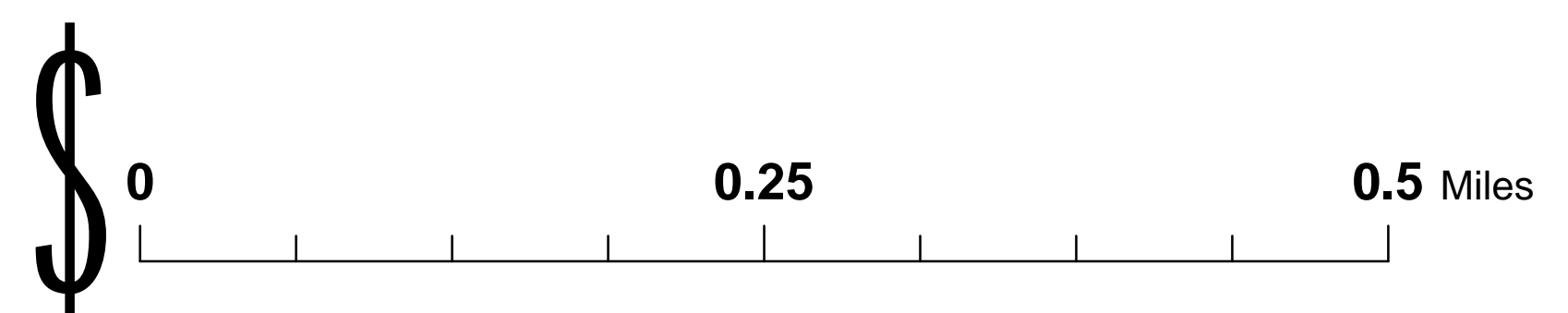


Exhibit 3 of 3
NOISE BARRIER LOCATIONS
 U.S. Route 20
 Elgin, Kane County, Illinois

**APPENDIX A:
DRAFT NOISE ABATEMENT WALL
AND BORING LOCATION PLANS**



MATCHLINE STA. 157+00.00



MATCHLINE STA. 157+00.00

MATCHLINE STA. 172+00.00

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- PR STRUCTURE MOUNTED N.A.W.
- PR GURADRAIL
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- REDUCE PHASE 1 N.A.W. LIMITS
- ADDITIONAL R.O.W. NEEDED

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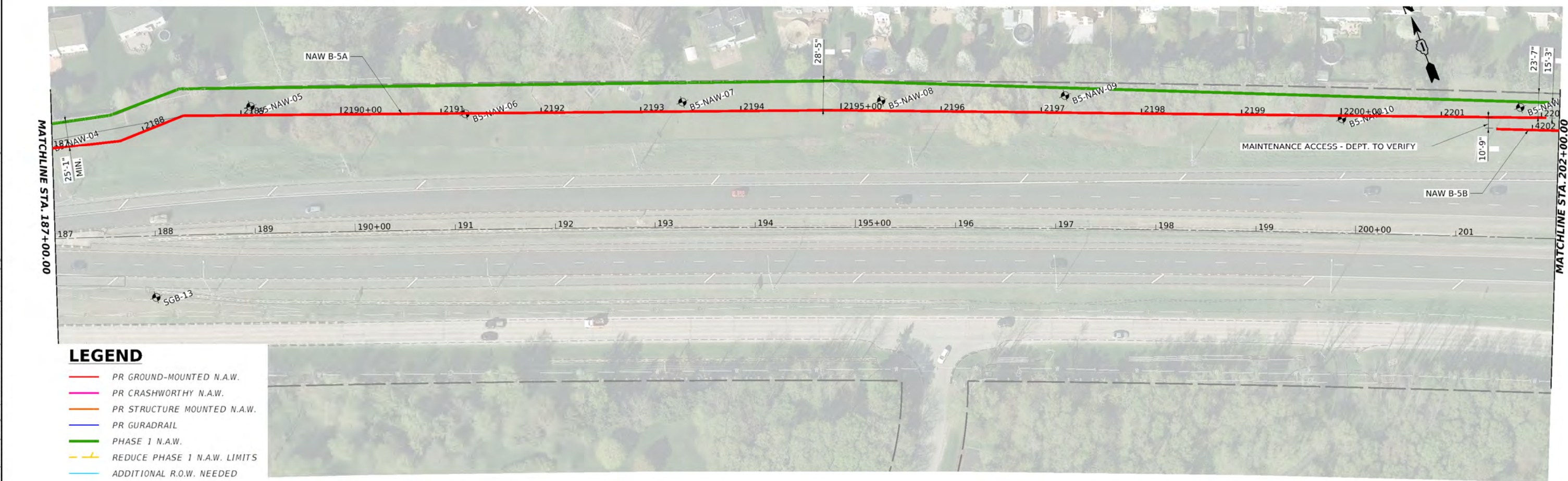
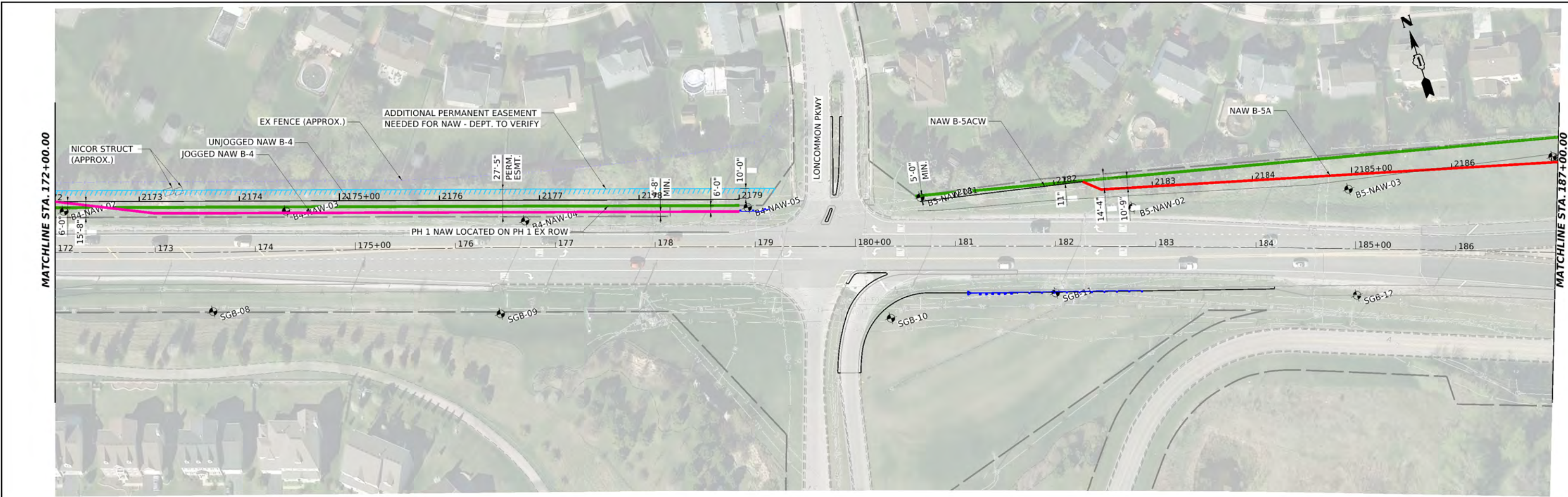
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US-20 RANDALL RD TO SHALES PKWY
NOISE WALL PLAN**

F.A.P. RTE. 345	SECTION 2020-146-B-BR&NW	COUNTY KANE	TOTAL SHEETS 15	SHEET NO. 1
CONTRACT NO. 62134				
ILLINOIS FED. AID PROJECT				

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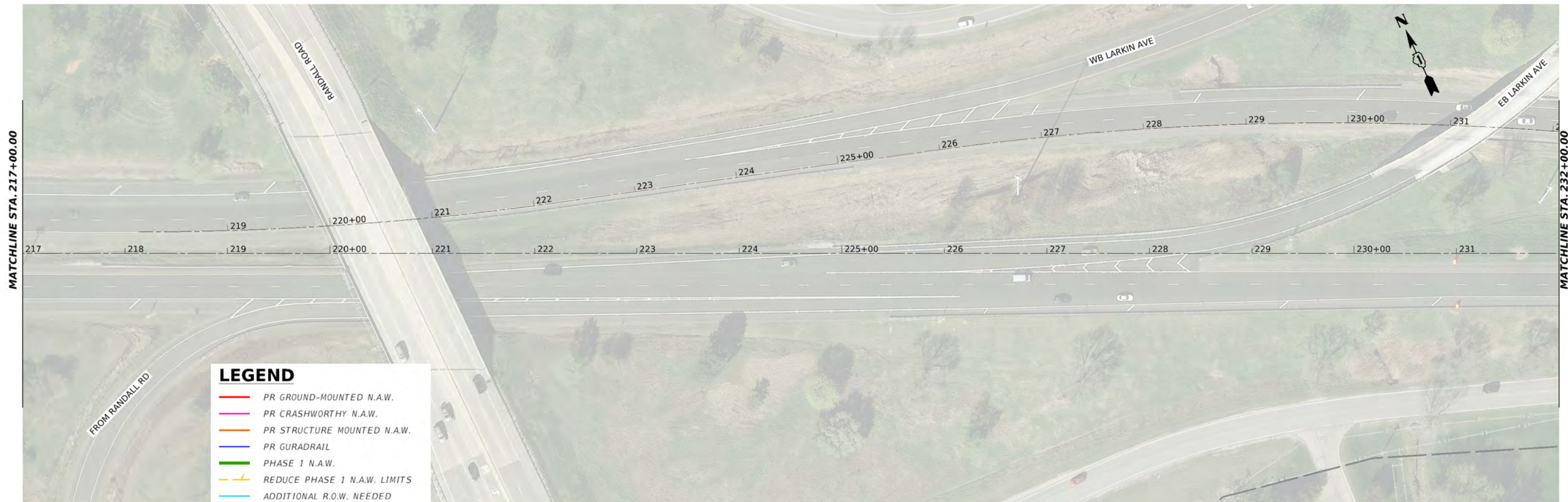
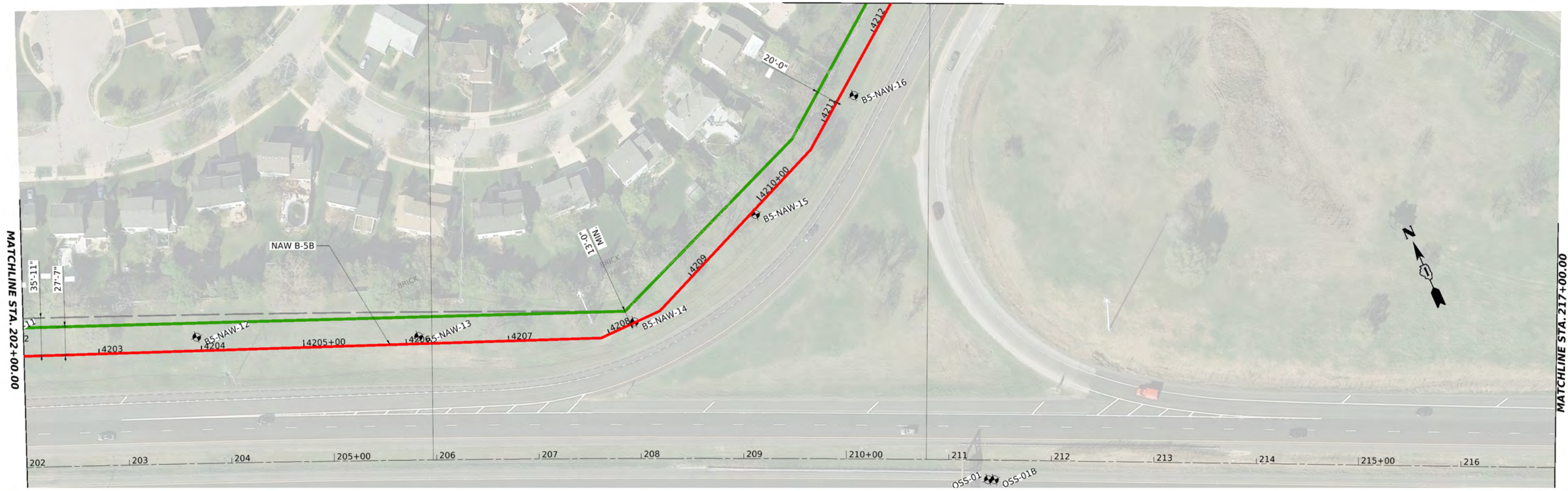
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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 NOISE WALL PLAN
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ILLINOIS FED. AID PROJECT				

SEE SHEET 4



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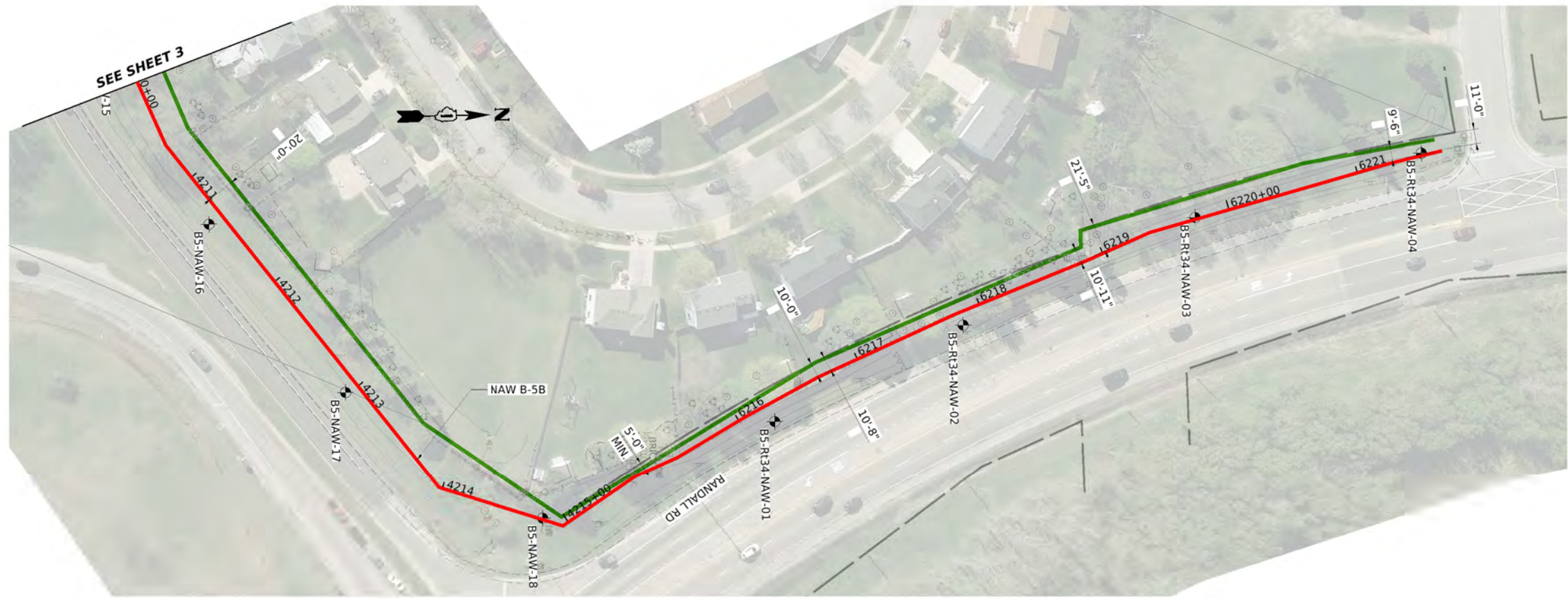
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US-20 RANDALL RD TO SHALES PKWY
NOISE WALL PLAN

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

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CONTRACT NO. 62134				
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- ADDITIONAL R.O.W. NEEDED

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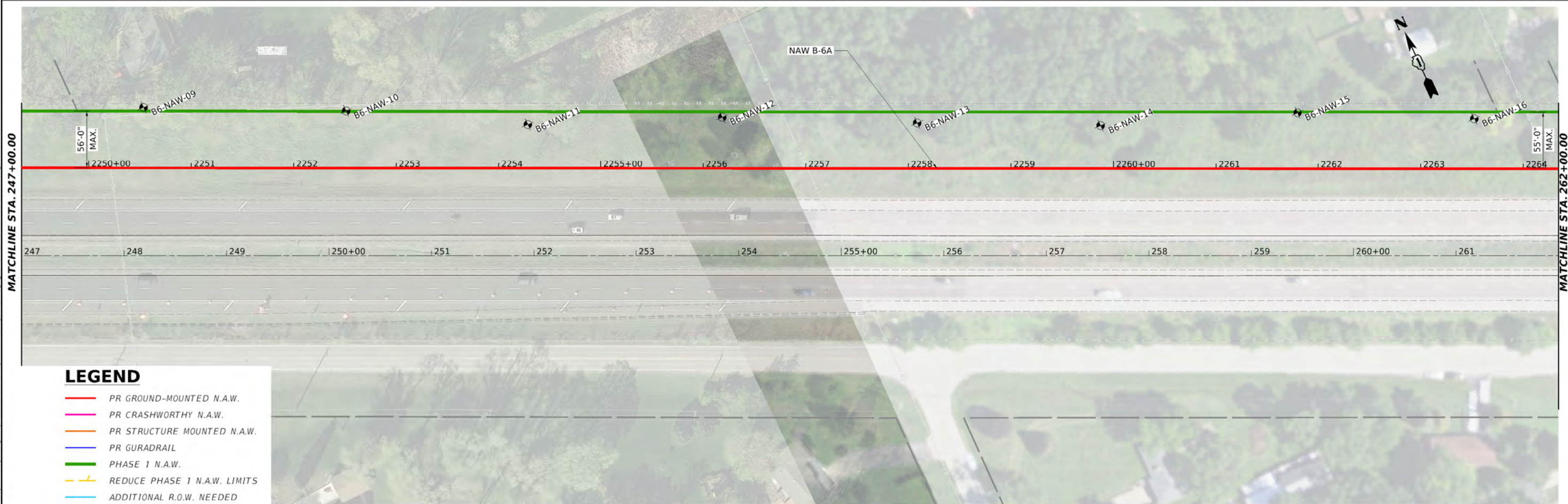
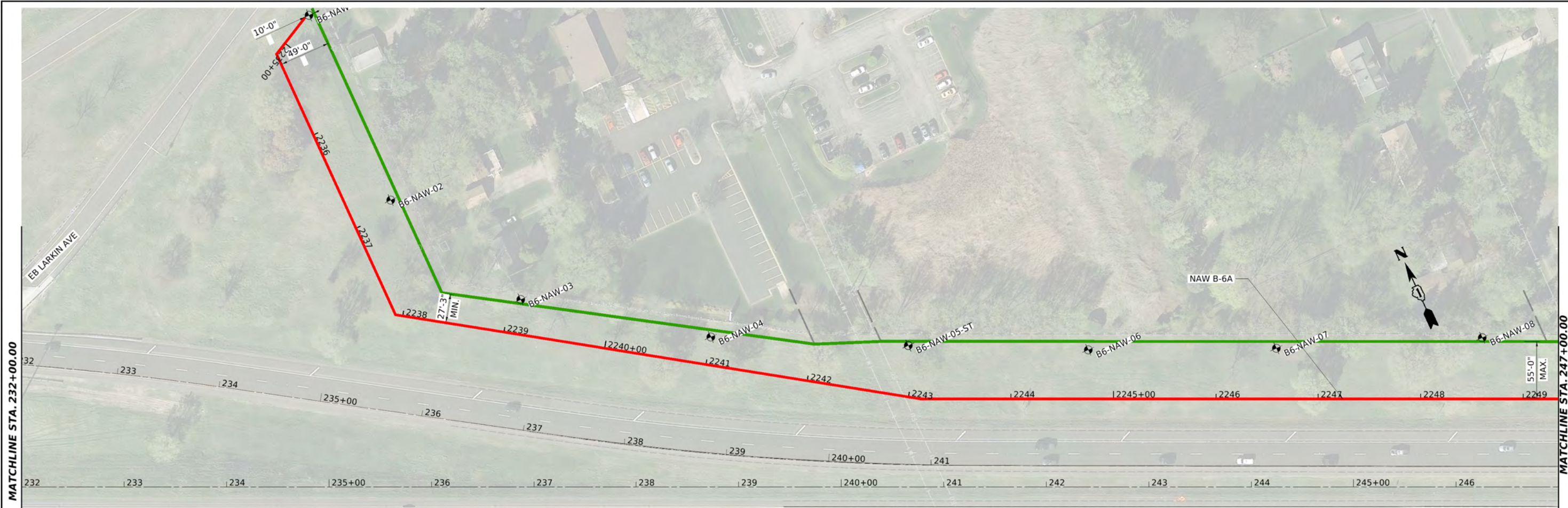
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**STATE OF ILLINOIS
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US-20 RANDALL RD TO SHALES PKWY
NOISE WALL PLAN

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

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CONTRACT NO. 62134				
ILLINOIS FED. AID PROJECT				



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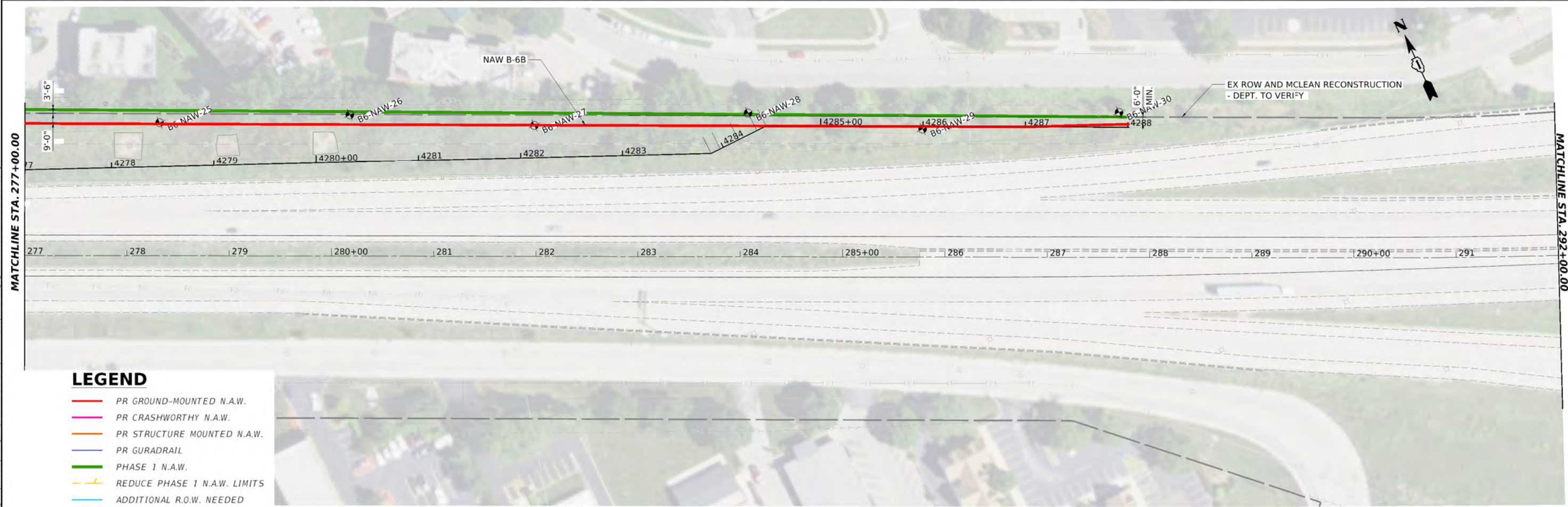
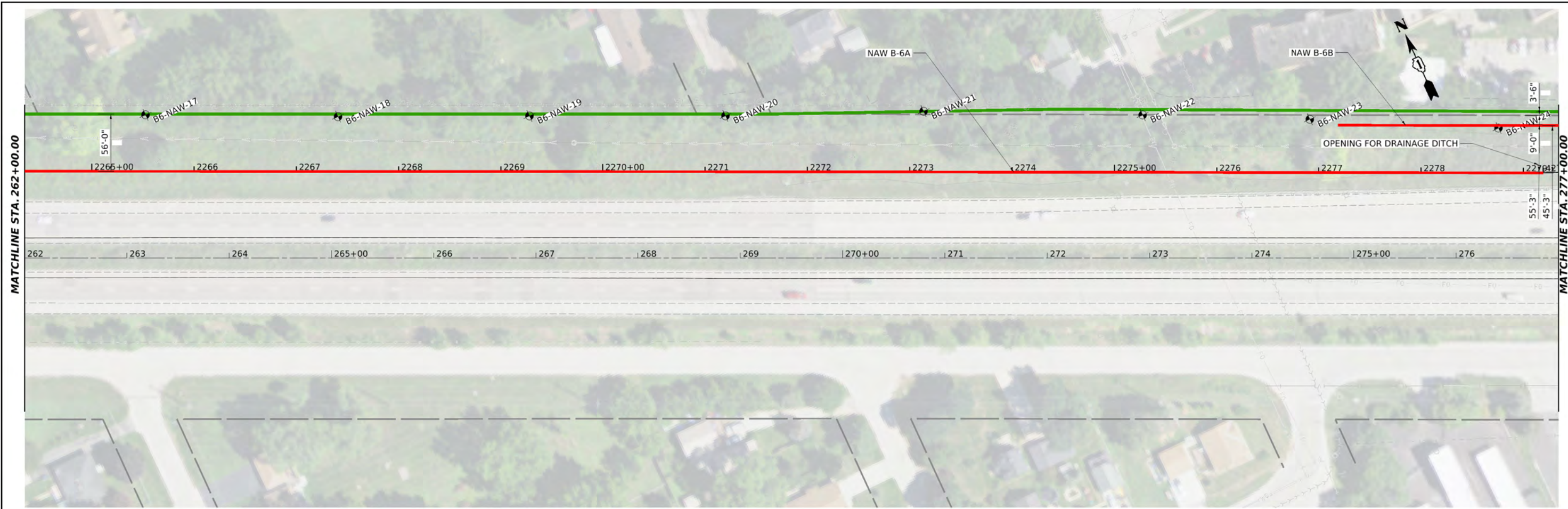
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US-20 RANDALL RD TO SHALES PKWY
 NOISE WALL PLAN

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CONTRACT NO. 62L34				
ILLINOIS FED. AID PROJECT				



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- PR STRUCTURE MOUNTED N.A.W.
- PR GURADRAIL
- PHASE 1 N.A.W.
- REDUCE PHASE 1 N.A.W. LIMITS
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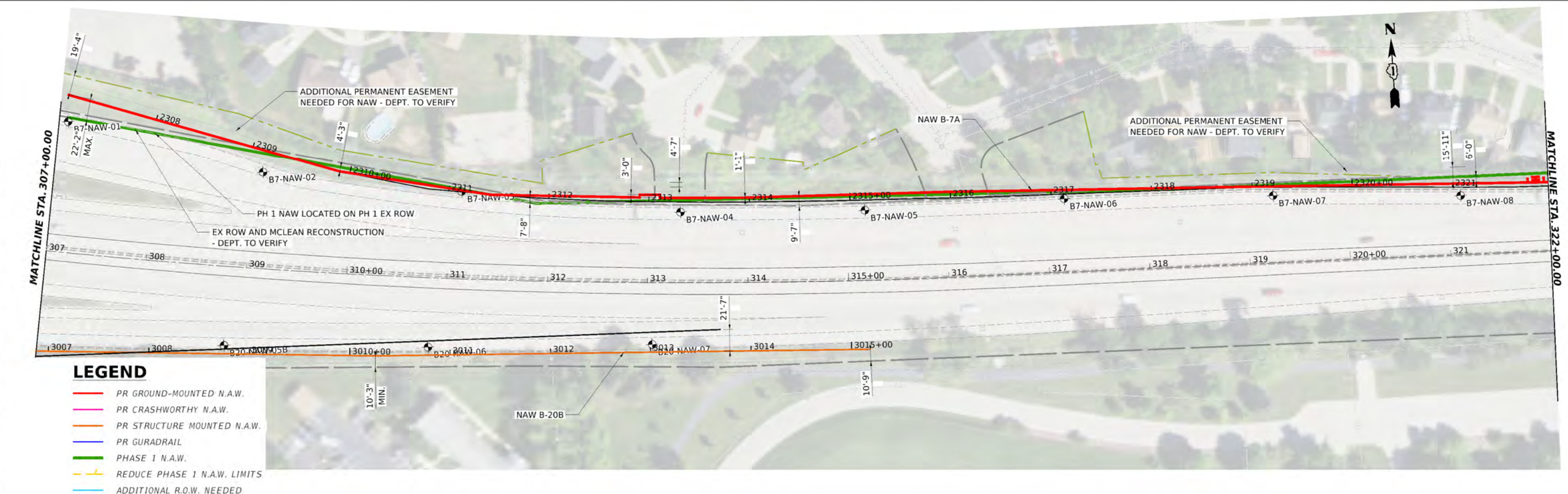
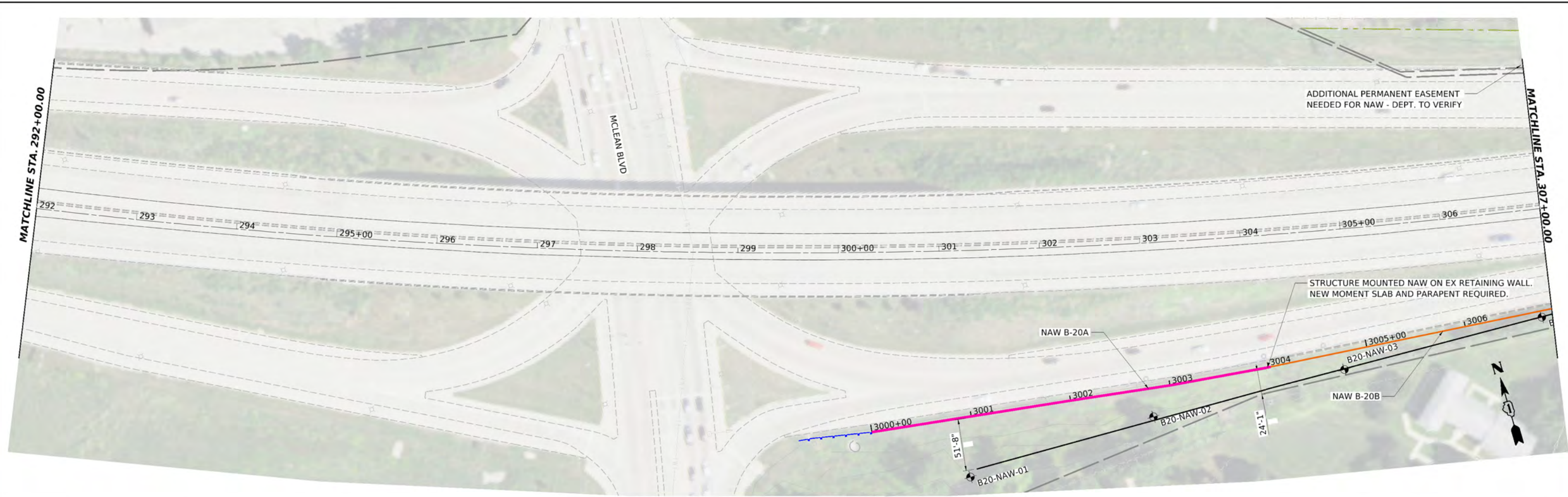
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US-20 RANDALL RD TO SHALES PKWY
NOISE WALL PLAN**
 SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62134				
ILLINOIS FED. AID PROJECT				



LEGEND

- PR GROUND-MOUNTED N.A.W.
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- PHASE 1 N.A.W.
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- ADDITIONAL R.O.W. NEEDED

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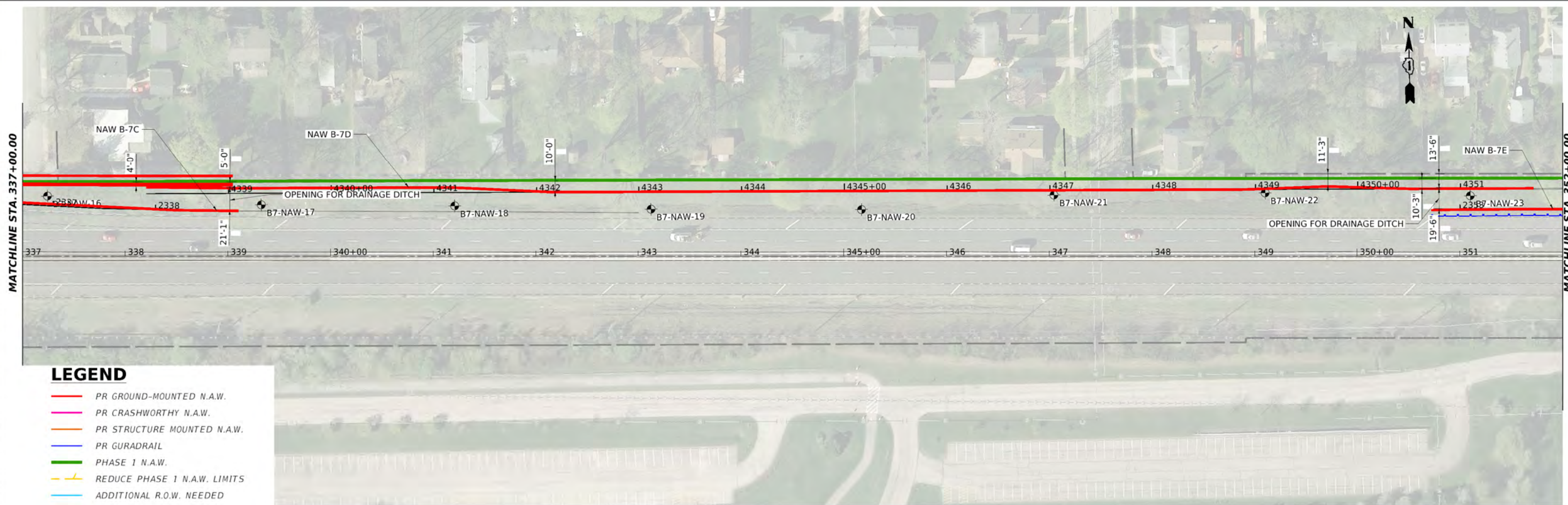
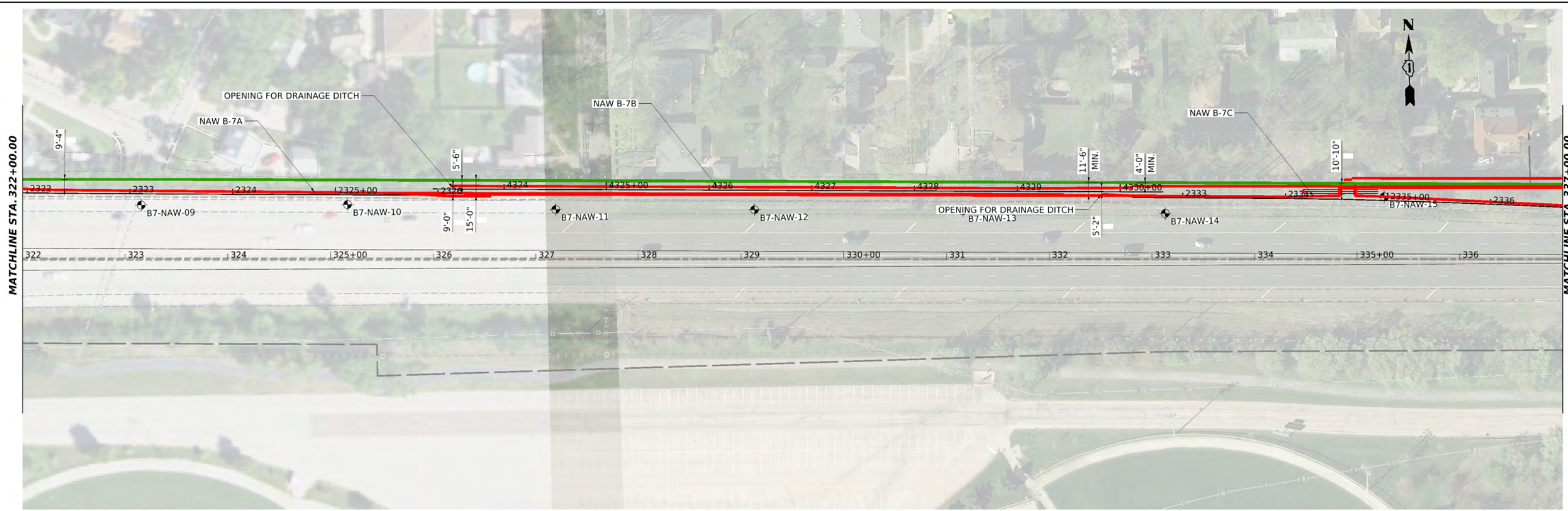
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US-20 RANDALL RD TO SHALES PKWY
 NOISE WALL PLAN

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 345	SECTION 2020-146-B-BR&NW	COUNTY KANE	TOTAL SHEETS 15	SHEET NO. 7
CONTRACT NO. 62134				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- PR GROUND-MOUNTED N.A.W.
 - PR CRASHWORTHY N.A.W.
 - PR STRUCTURE MOUNTED N.A.W.
 - PR GURADRAIL
 - PHASE 1 N.A.W.
 - REDUCE PHASE 1 N.A.W. LIMITS
 - ADDITIONAL R.O.W. NEEDED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US-20 RANDALL RD TO SHALES PKWY
NOISE WALL PLAN**

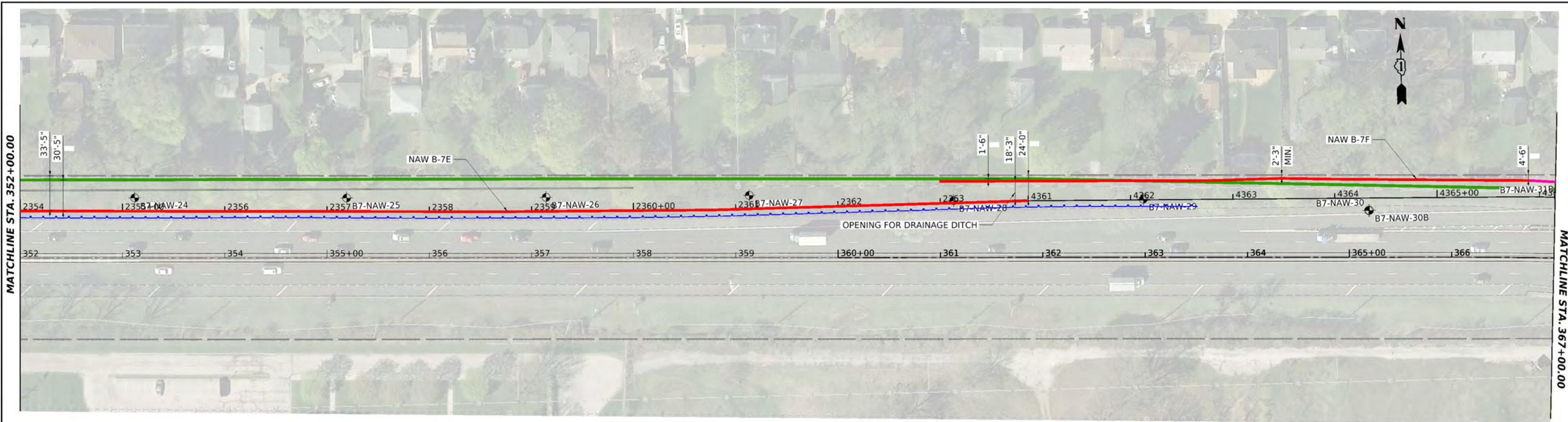
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	2020-146-B-BR&NW	KANE	15	8
CONTRACT NO. 62L34				
ILLINOIS FED. AID PROJECT				

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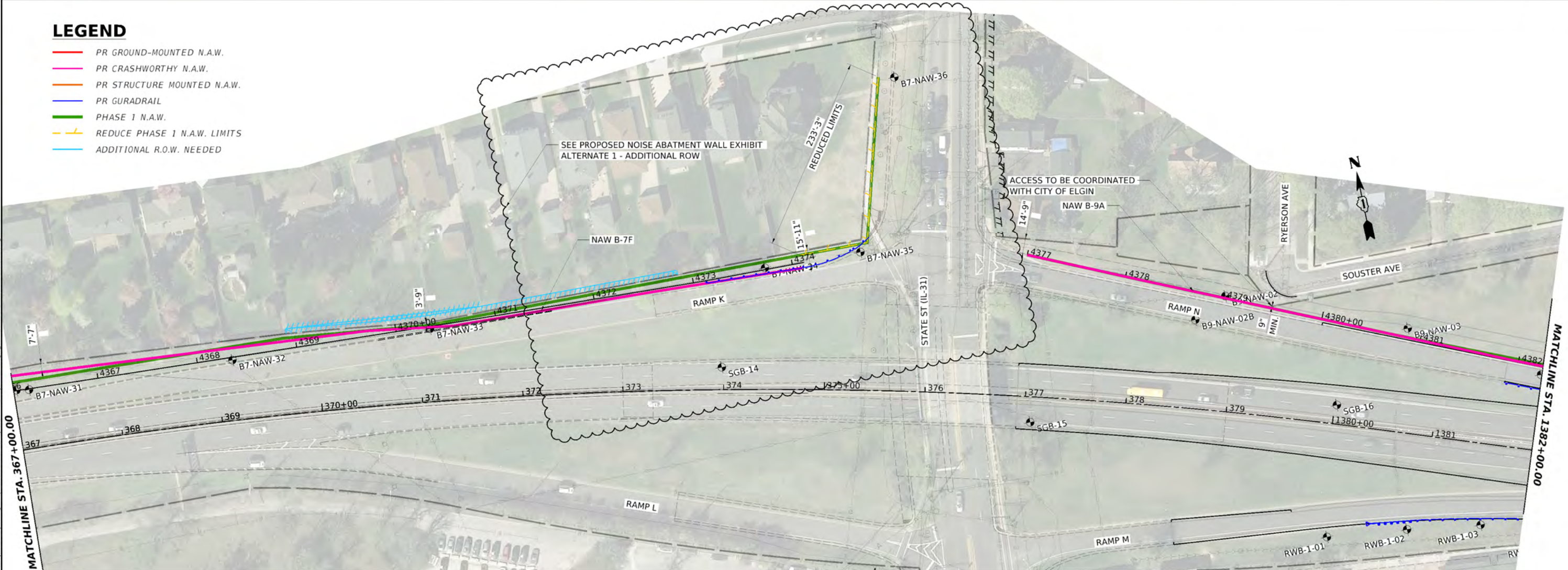


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		DATE	-	REVISED	-



LEGEND

- PR GROUND-MOUNTED N.A.W.
- PR CRASHWORTHY N.A.W.
- PR STRUCTURE MOUNTED N.A.W.
- PR GURADRAIL
- PHASE 1 N.A.W.
- REDUCE PHASE 1 N.A.W. LIMITS
- ADDITIONAL R.O.W. NEEDED



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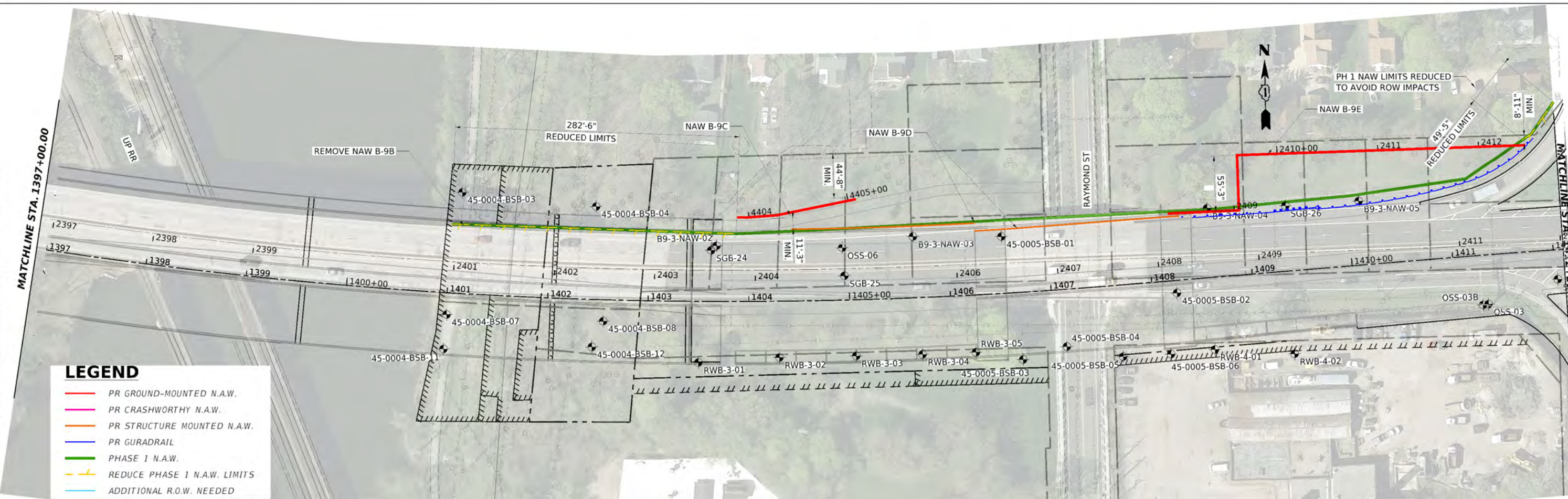
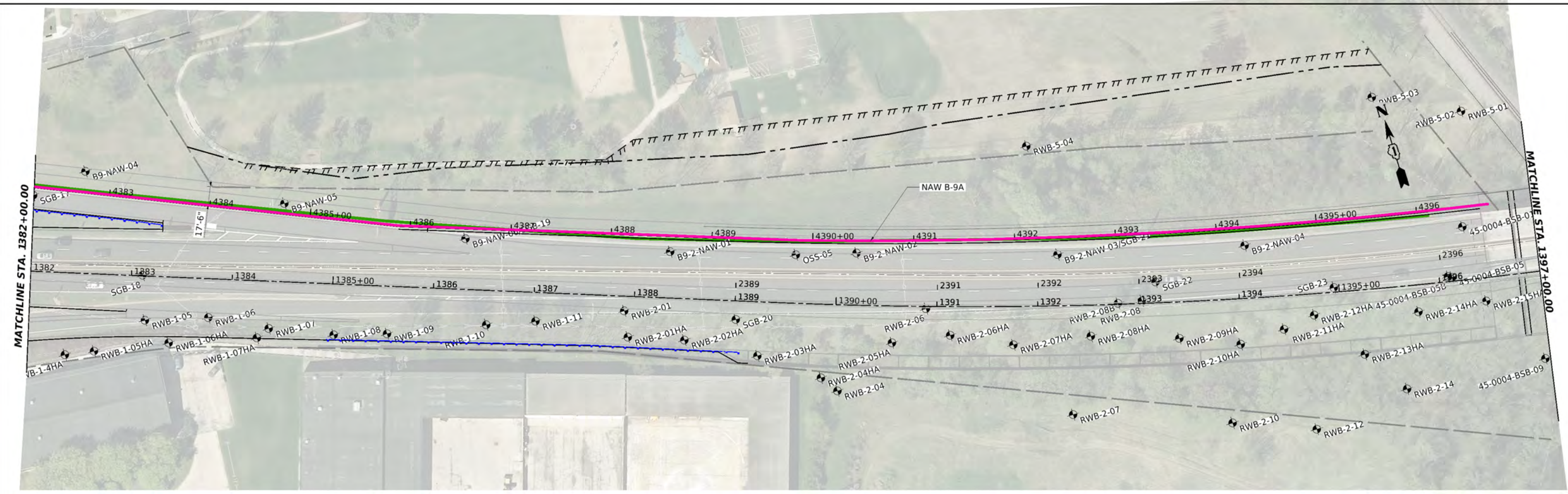
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US-20 RANDALL RD TO SHALES PKWY
NOISE WALL PLAN**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 345	SECTION 2020-146-B-BR&NW	COUNTY KANE	TOTAL SHEETS 15	SHEET NO. 9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62134	



LEGEND

- PR GROUND-MOUNTED N.A.W.
- PR CRASHWORTHY N.A.W.
- PR STRUCTURE MOUNTED N.A.W.
- PR GURADRAIL
- PHASE 1 N.A.W.
- REDUCE PHASE 1 N.A.W. LIMITS
- ADDITIONAL R.O.W. NEEDED

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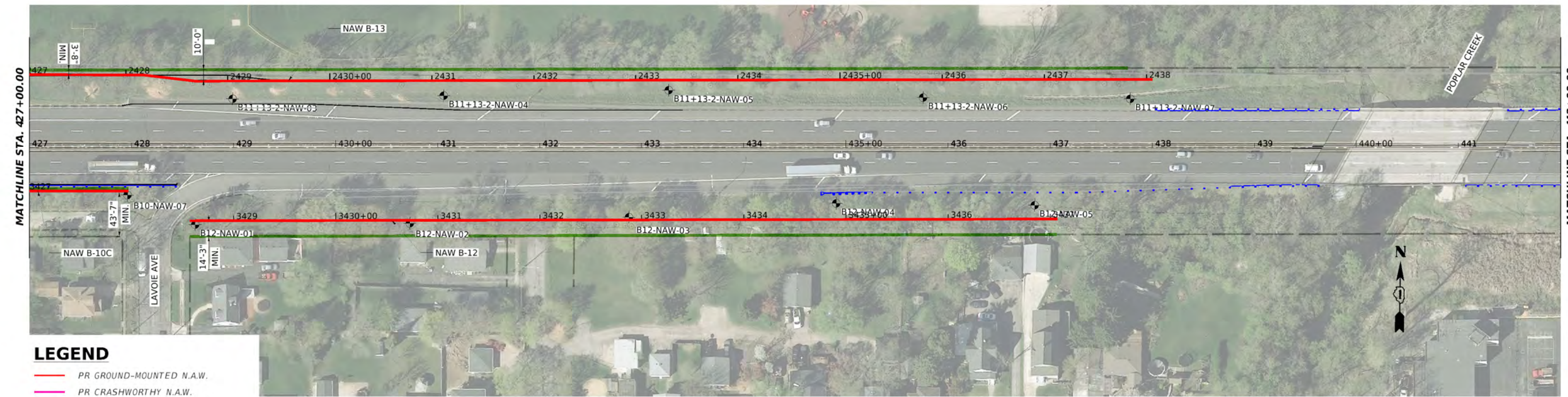
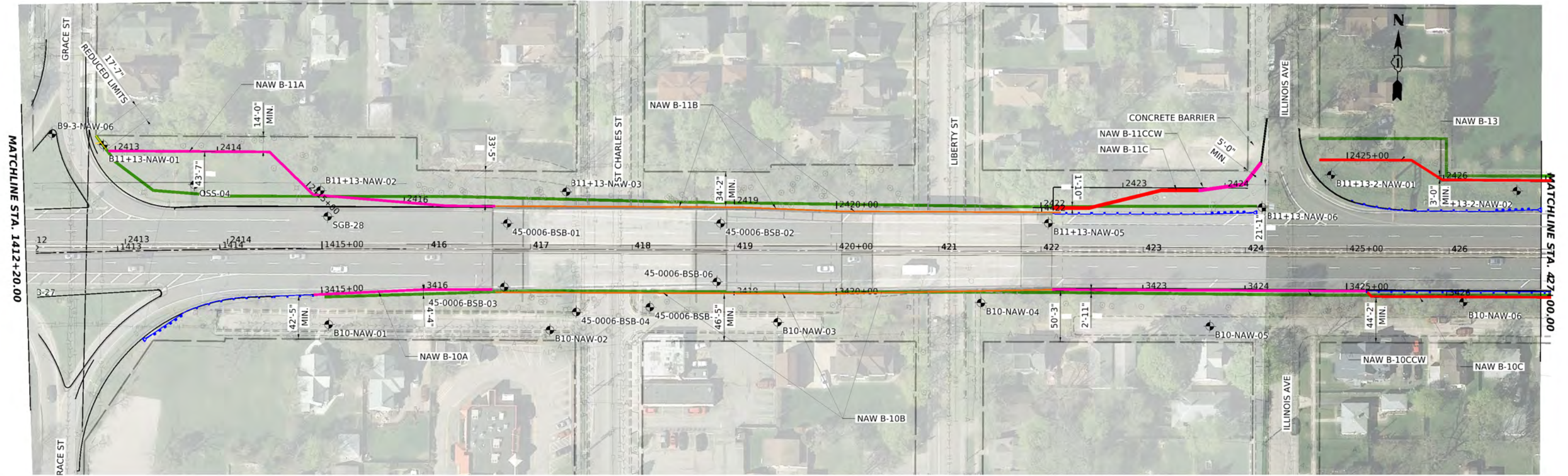
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US-20 RANDALL RD TO SHALES PKWY
NOISE WALL PLAN

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	2020-146-B-BR&NW	KANE	15	10
CONTRACT NO. 62L34				
ILLINOIS FED. AID PROJECT				



LEGEND

- PR GROUND-MOUNTED N.A.W.
- PR CRASHWORTHY N.A.W.
- PR STRUCTURE MOUNTED N.A.W.
- PR GURADRAIL
- PHASE 1 N.A.W.
- REDUCE PHASE 1 N.A.W. LIMITS
- ADDITIONAL R.O.W. NEEDED

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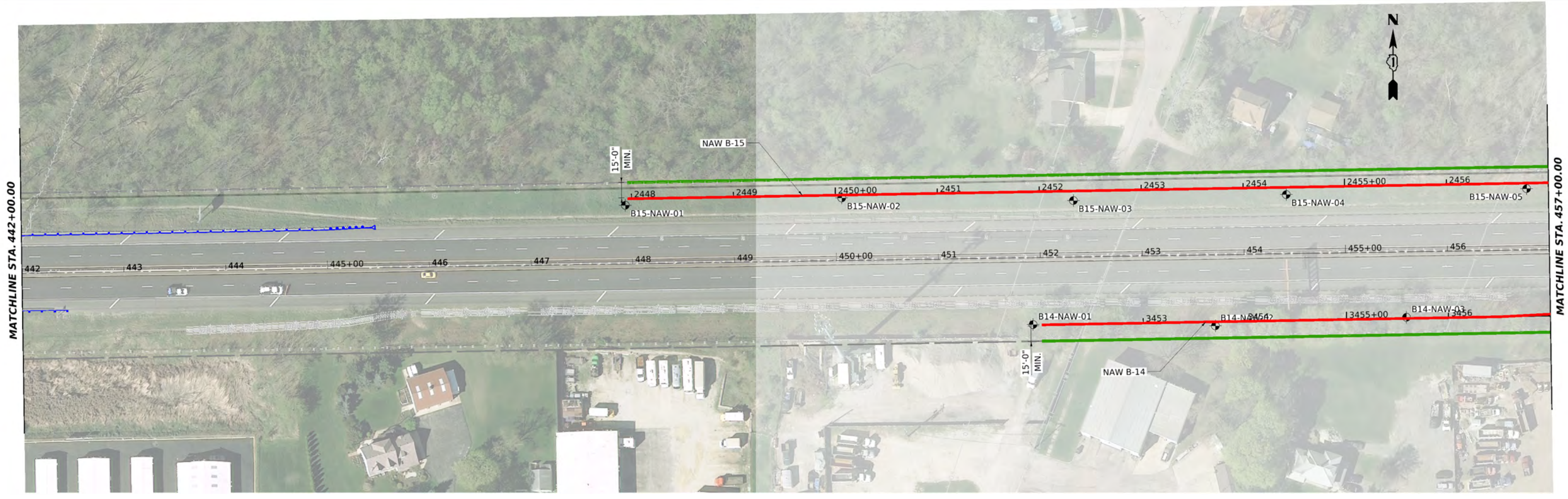
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US-20 RANDALL RD TO SHALES PKWY
 NOISE WALL PLAN

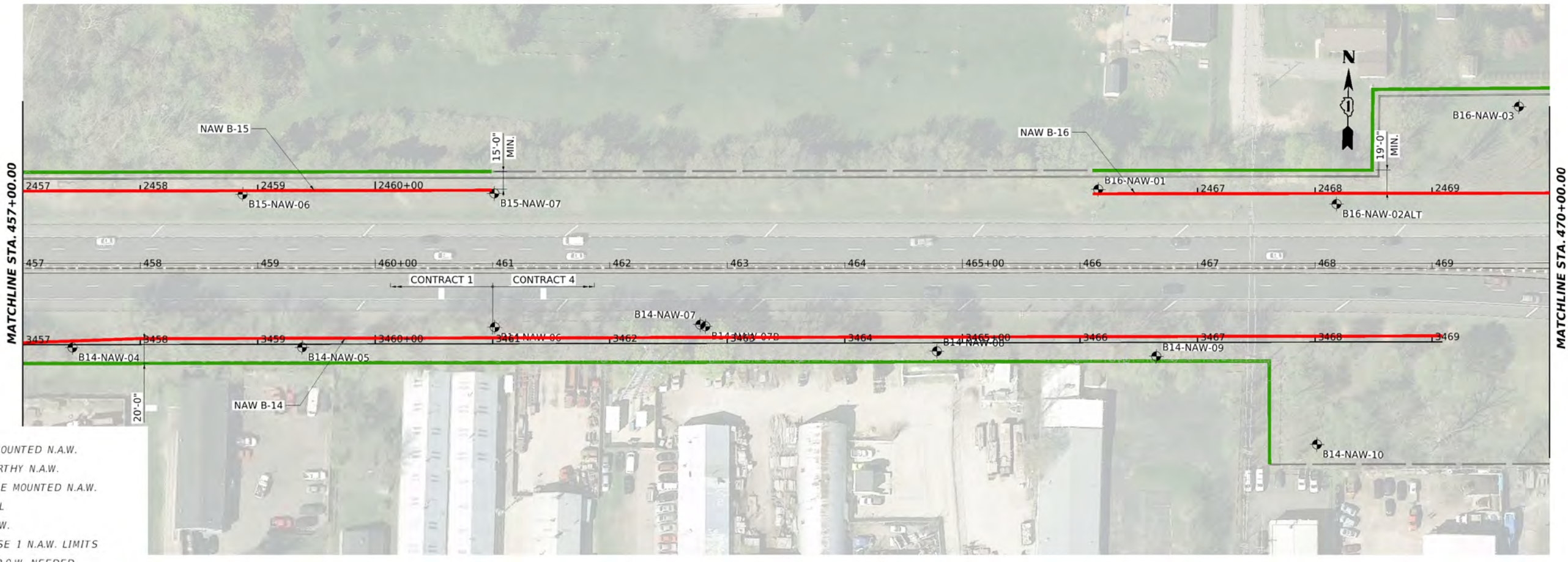
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	2020-146-B-BR&NW	KANE	15	11
CONTRACT NO. 62134				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 442+00.00

MATCHLINE STA. 457+00.00



MATCHLINE STA. 457+00.00

MATCHLINE STA. 470+00.00

LEGEND

- PR GROUND-MOUNTED N.A.W.
- PR CRASHWORTHY N.A.W.
- PR STRUCTURE MOUNTED N.A.W.
- PR GURADRAIL
- PHASE 1 N.A.W.
- REDUCE PHASE 1 N.A.W. LIMITS
- ADDITIONAL R.O.W. NEEDED

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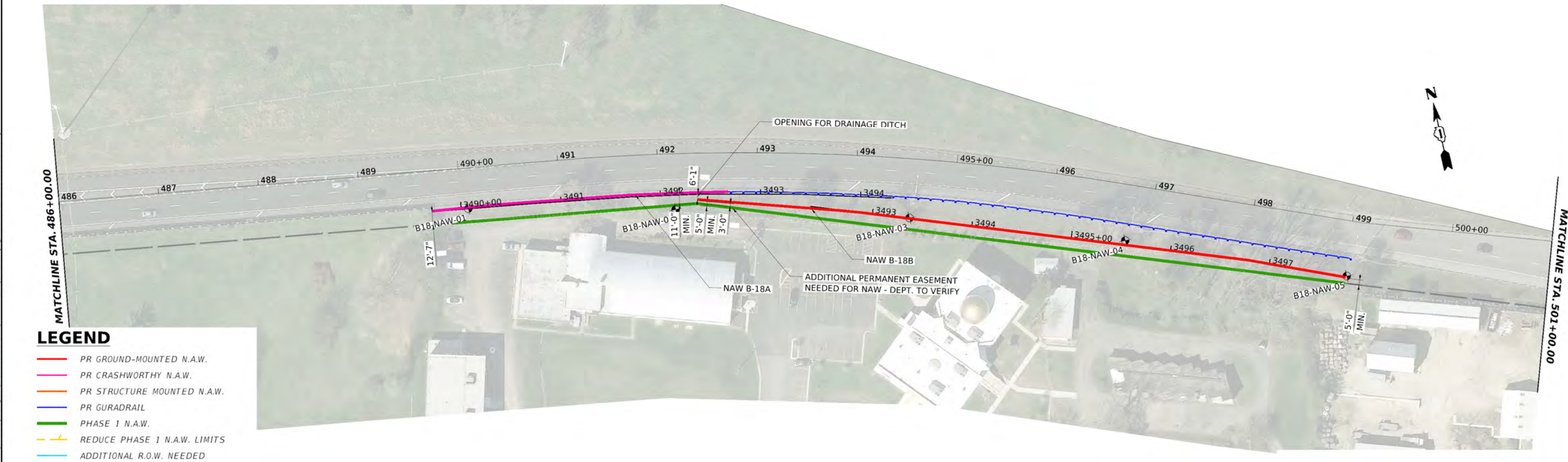
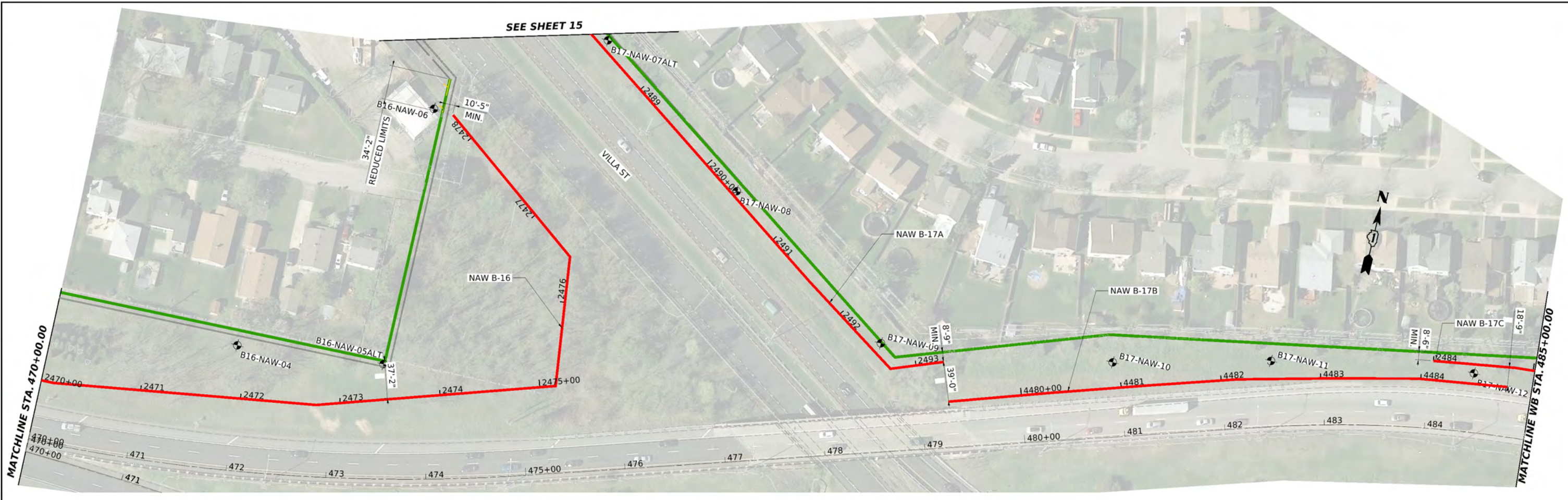


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US-20 RANDALL RD TO SHALES PKWY
 NOISE WALL PLAN
 SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	2020-146-B-BR&NW	KANE	15	12
CONTRACT NO. 62134				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- PR GROUND-MOUNTED N.A.W.
 - PR CRASHWORTHY N.A.W.
 - PR STRUCTURE MOUNTED N.A.W.
 - PR GURADRAIL
 - PHASE 1 N.A.W.
 - REDUCE PHASE 1 N.A.W. LIMITS
 - ADDITIONAL R.O.W. NEEDED

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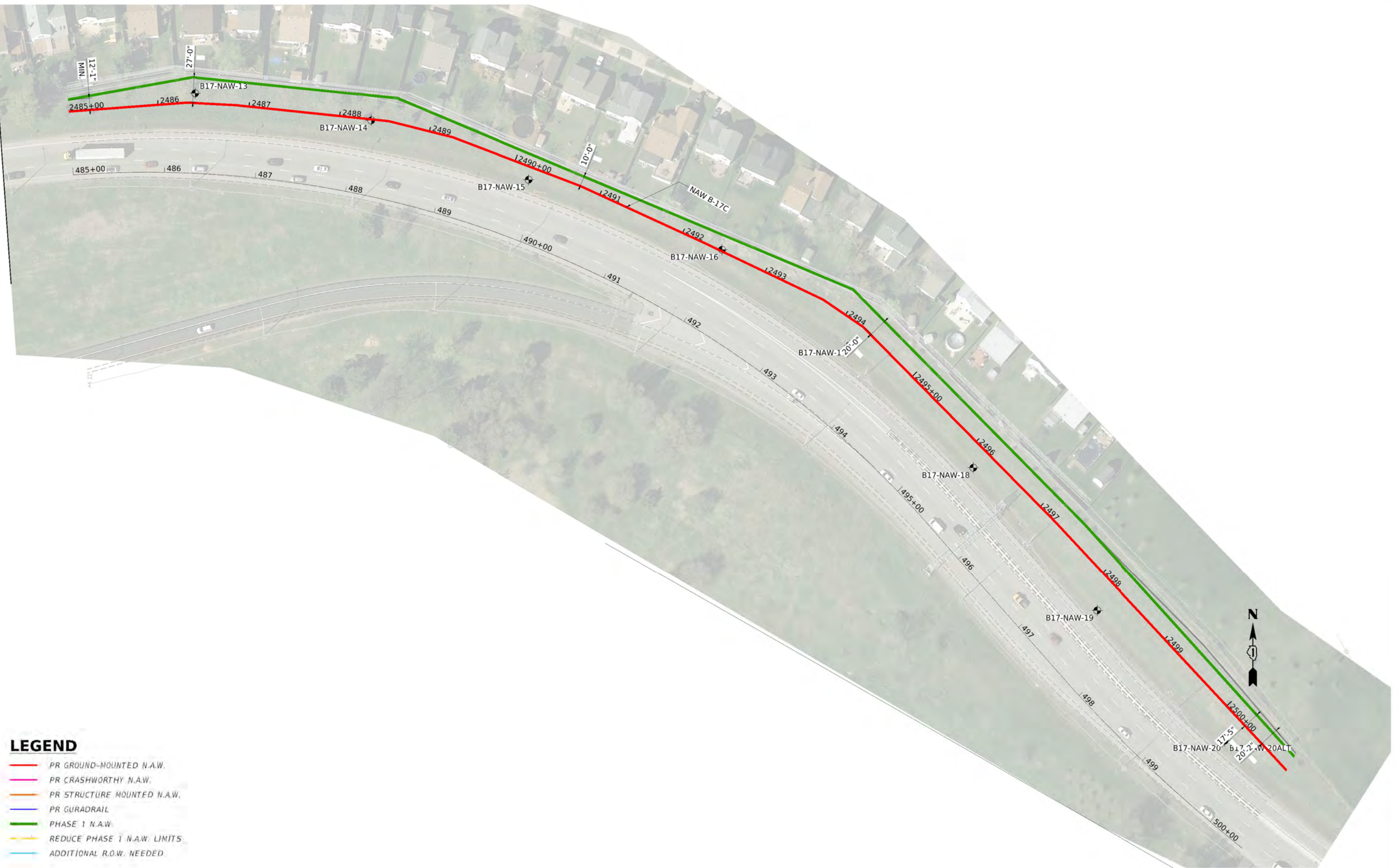
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US-20 RANDALL RD TO SHALES PKWY
 NOISE WALL PLAN

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 345	SECTION 2020-146-B-BR&NW	COUNTY KANE	TOTAL SHEETS 15	SHEET NO. 13
CONTRACT NO. 62L34				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. WB 485+00.00



LEGEND

- PR GROUND-MOUNTED N.A.W.
- PR CRASHWORTHY N.A.W.
- PR STRUCTURE MOUNTED N.A.W.
- PR GUARDRAIL
- PHASE 1 N.A.W.
- REDUCE PHASE 1 N.A.W. LIMITS
- ADDITIONAL R.O.W. NEEDED

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US-20 RANDALL RD TO SHALES PKWY NOISE WALL PLAN			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE. 345	SECTION 2020-146-B-BR&NW	COUNTY KANE	TOTAL SHEETS 15	SHEET NO. 14
CONTRACT NO. 62L34				
ILLINOIS FED. AID PROJECT				

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- LEGEND**
- PR GROUND-MOUNTED N.A.W.
 - PR CRASHWORTHY N.A.W.
 - PR STRUCTURE MOUNTED N.A.W.
 - PR GURADRAIL
 - PHASE 1 N.A.W.
 - REDUCE PHASE 1 N.A.W. LIMITS
 - ADDITIONAL R.D.W. NEEDED

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US-20 RANDALL RD TO SHALES PKWY
NOISE WALL PLAN

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	2020-146-B-BR&NW	KANE	15	15
CONTRACT NO. 62L34				
ILLINOIS FED. AID PROJECT				

APPENDIX B: BORING LOGS

LEGEND FOR BORING LOG

Relative Density of Non-Cohesive Soils	
N-Blows/ 12 inches	Relative Density Term
0-3	Very Loose
4-9	Loose
10-29	Medium Dense
30-49	Dense
50-80+	Very Dense

Consistency of Cohesive Soils	
Unconfined Compressive Strength Q_u , tsf	Consistency Term
<0.25	Very Soft
0.25-0.49	Soft
0.50-0.99	Medium Stiff
1.00-1.99	Stiff
2.00-3.99	Very Stiff
>4.00	Hard

Rock Quality Designation (RQD)	
0-25%	Very Poor
25-50%	Poor
50-75%	Fair
75-90%	Good
90-100%	Excelent

SS = Split Spoon
 ST = Shelby Tube
 SPT = Standard Penetration Test
 Q_u = Unconfined Compressive Strength
 NP = Non Plastic
 P = Pocket Penetrometer
 S = Shear failure of sample, Rimac test
 B = Bulge failure of sample, Rimac test
 SSA = Solid Stem Augers,
 HSA = Hollow Stem Augers,

Proportional Terms		
Trace	1-9	Percent of Dry Weight
Little	10-19	
Some	20-34	
And	35-50	
Gradation Terminology		
Boulders	>200mm	
Cobbles	200mm to 75mm	
Gravel	75mm to 2mm	
Sand	2-0mm to 0.074mm	
Silt	0.074mm to 0.002mm	
Clay	<0.002mm	

Relative Moisture Conditions	
Term	Description
Dry	Dusty, No visible moisture
Damp	Cohesives hard to mold; Granulars do not flow easily
Moist	Cohesives can be molded; Granulars start to stick together
Wet	Cohesives can be very easily molded and sticky; Granulars stick together easily
Saturated	Only granular soils; Water drains freely from sample

Relative Drilling Resistance (RDR)	
1	No Chatter - Very Easy Drilling
2	No Chatter - Easy Drilling
3	Some Chatter - Moderate Advancement
4	Frequent Chatter - Slow Advancement
5	Constant Chatter - Very Slow Advanement

Sample Type Symbols



Split Spoon



Rock Core



In-situ Vane Shear Test



No Recovery



Shelby Tube

SPT = Standard Penetration Test
N Value is the sum of the second and the third numbers



Geoprobe



Auger Cuttings



BORING LOG B4-NAW-01

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

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 890.04 ft
 North: 1956136.80 ft
 East: 978268.73 ft
 Station: 170+25.88
 Offset: 40.368 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	889.0	12-inch thick black SILTY CLAY --TOPSOIL--																
		Stiff to very stiff, black and gray to gray SILTY CLAY, trace gravel; moist		X	1	3 3 2	1.00 P	24					X	9	14 13 15		NP	9
		--RDR 2--																
		--%Gravel=0.0-- --%Sand=1.3-- --%Silt=65.4-- --%Clay=33.3-- --A-4-(0)--		X	2	3 5 6	1.80 B	27					X	10	5 8 9		NP	18
			5							865.0		25						
											Boring terminated at 25.00 ft							
	883.7	Loose, brown SILT, trace gravel; moist to wet		X	3	3 3 2	NP	18										
		--RDR 2--																
				X	4	2 1 3	NP	21										
			10															
	879.5	Loose, brown SANDY LOAM, little gravel; moist		X	5	7 5 4	NP	12										
		--RDR 2--																
	877.3	Medium dense, brown medium to coarse SAND, trace gravel; saturated		X	6	4 4 6	NP	12										
		--RDR 2--																
			15															
				X	7	5 7 8	NP	14										
				X	8	4 6 6	NP	13										
			20															

GENERAL NOTES

Begin Drilling **03-03-2022** Complete Drilling **03-03-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **13.00 ft**
 At Completion of Drilling ∇ **14.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B4-NAW-02

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 1145 N Main Street
 Lombard, IL 60148
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 Fax: 630-953-9928

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 893.96 ft
 North: 1956082.74 ft
 East: 978443.38 ft
 Station: 172+08.71
 Offset: 41.082 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	893.0	12-inch thick black SANDY LOAM --TOPSOIL--															
		Medium stiff, black and brown SILTY CLAY, trace gravel; moist --RDR 2--	1	X	1	2 3 4	0.50 P	25					X	9	9 12 11	NP	16
	890.1	Medium dense to dense, brown medium SAND, trace to little gravel; damp --RDR 2--	5	X	2	6 5 6	0.50 P	19					X	10	16 9 8	NP	20
			10	X	3	16 18 19	NP	5									
			15	X	4	11 18 18	NP	4									
			20	X	5	12 18 22	NP	4									
			25	X	6	17 16 15	NP	3									
	878.5	Medium dense, brown medium to coarse SAND, trace to little gravel; saturated --RDR 2--	30	X	7	11 8 9	NP	8									
			35	X	8	11 7 8	NP	10									
			40														
										869.0	Boring terminated at 25.00 ft						

GENERAL NOTES

Begin Drilling **03-03-2022** Complete Drilling **03-03-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



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BORING LOG B4-NAW-03

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 898.44 ft
 North: 1956016.38 ft
 East: 978655.19 ft
 Station: 174+31.33
 Offset: 39.752 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	897.4	12-inch thick black SANDY LOAM															
	897.2	---TOPSOIL---															
		Medium dense, gray GRAVEL; dry		X	1	4 3 7	1.00 P	16					X	9	12 13 14	NP	9
		Stiff, brown SILTY CLAY CLAY and gravel; moist		X									X				
	894.8	---RDR 2---		X	2	5 4 7	NP	6		875.4	Medium dense, brown medium to coarse SAND, trace gravel; saturated		X	10	16 9 10	NP	9
		Medium dense to dense, brown medium SAND, little to some gravel; damp		X									X				
		---RDR 2---	5	X									X				
				X	3	8 10 12	NP	4					X	11	12 9 13	NP	11
				X									X				
				X	4	6 12 21	NP	8					X	12	6 5 7	NP	14
			10	X						868.4	Boring terminated at 30.00 ft		X				
				X									X				
				X	5	7 10 10	NP	4					X				
				X									X				
				X	6	11 11 12	NP	3					X				
			15	X									X				
				X									X				
				X	7	15 14 12	NP	3					X				
				X									X				
				X									X				
	880.4	Medium dense to dense, brown Gravelly SAND to SANDY GRAVEL; wet to saturated		X	8	9 17 18	NP	4					X				
		---RDR 2---		X									X				
			20	X									X				
				X									X				
				X									X				

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-03-2022** Complete Drilling **03-03-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **21.00 ft**
 At Completion of Drilling \blacktriangledown **26.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



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

BORING LOG B4-NAW-04

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 899.05 ft
 North: 1955935.36 ft
 East: 978880.26 ft
 Station: 176+69.79
 Offset: 26.398 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	898.1	12-inch thick SILTY CLAY --TOPSOIL--								878.6	Medium dense, brown fine to coarse SAND, little gravel; damp						
		Medium stiff to stiff, black SILTY CLAY, trace organic matter; moist			1	3 3 5	1.00 P	44			--RDR 2--			9	10 11 15	NP	8
					2	4 3 3	0.57 B	37		876.1	Medium dense, brown SANDY GRAVEL; saturated			10	10 11 13	NP	9
					3	3 3 5	1.31 B	33		873.6	Medium dense, brown medium to coarse SAND, trace to some gravel; saturated			11	10 10 10	NP	11
	893.6	Stiff, brown SILTY CLAY, trace gravel; moist			4	2 2 3	NP	23						12	11 10 11	NP	13
	890.1	Loose, brown SILT, trace gravel; moist			5	4 5 4	NP	10		869.1	Boring terminated at 30.00 ft						
	888.6	Loose to medium dense, brown SANDY LOAM, trace to little gravel; moist			6	6 7 5	NP	7									
					7	6 6 8	NP	11									
	883.8	Medium dense, brown SANDY GRAVEL; damp			8	3 5 8	NP	23									
	881.1	Medium dense, brown SILT, trace gravel; moist to wet															
		--sand seams--															
		--RDR 2--															

GENERAL NOTES

Begin Drilling **03-02-2022** Complete Drilling **03-02-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **23.50 ft**
 At Completion of Drilling ∇ **24.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B4-NAW-05

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 899.65 ft
 North: 1955881.55 ft
 East: 979096.89 ft
 Station: 178+92.63
 Offset: 39.32 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	899.43	3-inch thick brown SILTY CLAY LOAM --TOPSOIL-- Stiff to hard, brown SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			1	3 2 3	1.00 P	20		879.2	Medium dense to very dense, brown SANDY GRAVEL to Gravelly SAND; damp --RDR 2--			9	14 22 30	NP	3
			5		2	4 4 7	4.50 P	19				25		10	16 13 12	NP	3
	894.2	Medium dense, brown LOAM to SANDY LOAM, trace gravel; damp --FILL-- --RDR 2--			3	4 7 10	NP	13			--saturated--			11	4 6 8	NP	15
	891.7	Very stiff, brown SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp --FILL-- --RDR 2--			4	8 12 10	3.00 P	9				30		12	3 6 8	NP	21
					5	8 7 14	2.50 P	15		869.7	Boring terminated at 30.00 ft						
	886.7	Medium dense, brown Gravelly SAND to SANDY GRAVEL; damp --RDR 2-- --some rig chatter, 15.0 to 16.0 feet--			6	50/5"	NP	4				35					
					7	8 13 13	NP	2									
	881.7	Medium dense, brown SANDY LOAM, trace gravel; damp --RDR 2--			8	10 10 13	NP	2				40					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **GEOPROBE**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **27.00 ft**
 At Completion of Drilling ∇ **15.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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BORING LOG B5-NAW-01

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 896.81 ft
 North: 1955839.33 ft
 East: 979264.39 ft
 Station: 180+65.09
 Offset: 48.732 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	896.54	4-inch thick brown SILTY CLAY LOAM --TOPSOIL-- Very stiff, brown CLAY LOAM to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			1	1 2 3	2.00 P	19									
			5		2	3 4 5	2.50 P	15									
	891.3	Stiff, brown CLAY LOAM to LOAM, trace gravel; damp --RDR 2--			3	2 4 5	1.00 P	17									
	888.8	Very stiff, brown and gray to brown SILTY CLAY LOAM, trace gravel; damp --RDR 2--			4	2 3 5	2.50 P	24									
			10		5	4 5 9	3.12 B	16									
	883.8	Medium dense, gray and white GRAVEL --RDR 2--			6	8 6 10	NP										
	881.3	Medium dense, brown fine to medium SAND, little gravel; moist --RDR 2--			7	6 7 9	NP	6									
	878.8	Medium dense, brown medium to coarse SAND, little gravel; moist --RDR 2--			8	8 10 12	NP	7									
	876.8	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **GEOPROBE**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

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

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



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BORING LOG B5-NAW-02

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 894.29 ft
 North: 1955765.99 ft
 East: 979463.45 ft
 Station: 182+76.62
 Offset: 38.792 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	894.04	4-inch thick black SILTY CLAY LOAM															
		--TOPSOIL--															
		Medium dense, brown Gravelly SAND to SANDY LOAM; damp			1	4 4 6	NP	6									
		--RDR 2--															
		--some rig chatter, 2.0 to 3.0 feet--															
		--possible cobbles--															
			5		2	6 11 8	NP										
					3	5 8 9	NP	4									
					4	10 10 11	NP	4									
			10														
	883.8	--some rig chatter, 10.0 to 11.0 feet--															
		--possible cobbles--															
		Medium dense, brown fine to medium SAND, trace to little gravel; damp			5	6 10 11	NP	4									
		--RDR 3--															
					6	6 8 9	NP	5									
			15														
	878.8	Medium dense, brown LOAM to SANDY LOAM, trace gravel; damp			7	6 7 9	NP	19									
	877.6	--RDR 2--															
		Medium dense, brown SILT, trace gravel; damp to moist			8	6 11 12	NP	18									
		--RDR 2--															
	874.3		20														
		Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **GEOPROBE**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B5-NAW-03

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 888.23 ft
 North: 1955718.67 ft
 East: 979675.08 ft
 Station: 184+92.07
 Offset: 59.347 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	887.8	5-inch thick brown SILTY CLAY LOAM --TOPSOIL-- Medium stiff to stiff, brown SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2-- --L _L (%)=NP, P _L (%)=NP-- --%Gravel=32.6-- --%Sand=44.5-- --%Silt=19.5-- --%Clay=3.5-- --A-1-b (0)--			1	2 3 3	2.46 B	21									
					2	1 2 3	0.50 P	16									
					3	4 5 6	1.50 P	14									
	880.2	Medium dense, brown SILT, trace to little gravel; moist --RDR 2--			4	2 3 10	NP	13									
	877.7	Medium dense to dense, brown Gravelly SAND; moist --RDR 2 to 3--			5	6 7 10	NP	8									
					6	10 15 15	NP	6									
	872.7	Medium dense, brown fine SAND to SANDY LOAM, trace gravel; damp to moist --RDR 2--			7	8 10 12	NP	5									
					8	7 6 8	NP	16									
	868.2	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **GEOPROBE**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B5-NAW-04

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 885.48 ft
 North: 1955688.63 ft
 East: 979879.29 ft
 Station: 186+94.58
 Offset: 95.789 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	885.0	6-inch thick brown SILTY CLAY LOAM															
		--TOPSOIL--															
		Medium dense, brown Gravelly SAND; damp			1	6 11 14	NP	4									
		--RDR 2--															
					2	8 10 15	NP	3									
		--RDR 2 to 3--															
		--some rig chatter, 5.0 to 6.0 feet--															
	880.0	Medium dense, brown SANDY LOAM to LOAM, trace gravel; damp to wet to saturated			3	6 10 11	NP	4									
		--RDR 2--															
					4	8 7 10	NP	3									
					5	8 7 12	NP	4									
					6	7 11 14	NP	5									
					7	9 10 12	NP	18									
		--saturated--			8	10 11 11	NP	20									
	865.5	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **GEOPROBE**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **19.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 871.23 ft
 North: 1955651.98 ft
 East: 980082.99 ft
 Station: 188+98.17
 Offset: 127.512 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	870.2	12-inch thick dark brown SILTY CLAY --TOPSOIL-- Stiff to very stiff, brown and gray SILTY CLAY to CLAY LOAM, trace gravel; moist --RDR 2--			1	3 3 5	2.21 B	26			--RDR 2-- Boring terminated at 20.00 ft						
			5		2	3 4 3	1.72 B	21				25					
	864.7	Medium dense, brown SILT, trace gravel; wet --RDR 2--			3	6 6 4	NP	23									
			10		4	6 5 5	NP	22				30					
					5	7 7 8	NP	20									
			15		6	7 7 8	NP	19				35					
	855.7	Medium dense, brown SAND to SANDY LOAM, trace gravel; wet to saturated --RDR 2--			7	8 11 13	NP	21									
	852.1	Medium dense, gray SILT, trace gravel; wet to saturated			8	4 6 9	NP	18				40					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-01-2022** Complete Drilling **03-01-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **17.00 ft**
 At Completion of Drilling ∇ **17.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B5-NAW-06

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 866.32 ft
 North: 1955570.27 ft
 East: 980281.07 ft
 Station: 191+11.72
 Offset: 116.236 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	865.3	12-inch thick gray SILTY CLAY --TOPSOIL--															
		Soft, black and gray SILTY CLAY, trace gravel; moist --RDR 2--			1	2 2 3	0.41 B	31									
	862.2	Loose to medium dense, brown SILT, trace gravel; wet to saturated --RDR 2--	5		2	5 4 3	NP	19									
					3	6 7 8	NP	19									
			10		4	8 9 9	NP	18									
					5	8 11 10	NP	20									
			15		6	6 8 8	NP	19									
					7	7 9 10	NP	19									
	846.3		20		8	11 11 12	NP	21									
		Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **03-01-2022** Complete Drilling **03-01-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B5-NAW-07

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 859.86 ft
 North: 1955504.37 ft
 East: 980489.09 ft
 Station: 193+28.03
 Offset: 125.921 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	858.9	12-inch thick dark brown SILTY CLAY --TOPSOIL--									gravel; damp to moist --RDR 2--							
		Medium stiff (0.5P) to stiff, gray CLAY LOAM, little gravel; moist --RDR 2--			1	3 4 8	1.00 P	12			Boring terminated at 20.00 ft							
	855.8	Medium dense, brown, medium SAND, trace gravel; moist --RDR 2--	5		2	4 7 6	NP	11				25						
	854.4	Loose to medium dense, brown SILT, trace gravel; moist to wet --RDR 2--			3	3 3 4	NP	21										
		--wet-- --L _L (%)=NP, P _L (%)=NP-- --%Gravel=0.0-- --%Sand=18.4-- --%Silt=77.8-- --%Clay=3.8-- --A-4 (0)--			4	6 7 7	NP	19					30					
					5	7 9 10	NP	20										
			15		6	9 10 11	NP	19					35					
	842.8	Medium dense, black to dark brown medium to coarse SAND, trace gravel; moist to saturated --RDR 2--			7	11 8 11	NP	19										
	840.4	Medium dense, gray SILT, trace			8	19 12 15	NP	9										
	839.9		20															

GENERAL NOTES

Begin Drilling **03-01-2022** Complete Drilling **03-01-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **18.50 ft**
 At Completion of Drilling ∇ **18.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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BORING LOG B5-NAW-08

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 853.22 ft
 North: 1955435.94 ft
 East: 980675.39 ft
 Station: 195+25.46
 Offset: 127.093 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	852.2	12-inch thick TOPSOIL									little gravel; damp						
		Stiff to hard, dark brown to brown SILTY CLAY LOAM to CLAY LOAM, trace gravel; moist			1	4 4 7	1.72 B	26			--RDR 2--						
			5		2	6 9 9	1.23 B	18			Boring terminated at 20.00 ft	25					
	846.9	Medium dense, brown and gray Gravelly SAND; damp			3	7 13 12	NP	4									
	845.2	Medium dense, brown fine to medium SAND, little gravel; damp			4	10 11 12	NP	4				30					
	841.5	Very stiff, gray to brown SILTY CLAY LOAM to CLAY LOAM, trace gravel; moist			5	9 8 10	NP	6									
	839.0	Dense, brown and gray SANDY GRAVEL; damp			6	9 21 21	2.87 B	14				35					
	837.7	Medium dense, brown SILT, trace gravel; moist			7	6 16 13	NP	12			--sand seams-- --RDR 2--						
	835.2	Very stiff, brown SILTY LOAM, trace gravel; damp			8	11 17 26	2.87 B	11									
	834.1																
	833.2	Dense, brown coarse SAND,										40					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-01-2022** Complete Drilling **03-01-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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

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BORING LOG B5-NAW-09

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 848.51 ft
 North: 1955376.30 ft
 East: 980849.09 ft
 Station: 197+08.02
 Offset: 133.513 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick TOPSOIL															
	847.5	Medium stiff, black and brown SILTY CLAY, trace gravel; moist --RDR 2--			1	4 5 8	0.57 B	23									
	845.5	Very stiff, black and brown CLAY to SILTY CLAY, trace gravel; moist --RDR 2--			2	4 4 6	2.79 B	26									
	843.0	Medium stiff, brown SILTY CLAY, trace gravel; moist --RDR 2--			3	5 4 5	0.98 B	28									
	840.5	Medium dense, brown SILT, trace gravel; moist --RDR 2--			4	3 4 7	NP	20									
	838.3	Medium dense, brown coarse SAND, little gravel; moist --RDR 2--			5	12 9 8	NP	8									
	835.5	Medium dense to dense, brown SILT, trace gravel; damp to saturated --RDR 2--			6	11 11 14	NP	10									
		--silty clay seams-- --wet--			7	10 14 12	NP	11									
					8	12 16 16	NP	17									
	828.5	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **03-01-2022** Complete Drilling **03-01-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **16.00 ft**
 At Completion of Drilling ∇ **18.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B5-NAW-10

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 844.33 ft
 North: 1955257.19 ft
 East: 981100.27 ft
 Station: 199+83.97
 Offset: 114.728 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	843.3	12-inch thick black SILTY CLAY --TOPSOIL--									--RDR 2--						
		Stiff to very stiff, black, brown and gray to gray SILTY CLAY, trace gravel; moist			1	3 3 5	2.13 B	27									
		--RDR 2--															
		--L _L (%)=51, P _L (%)=18-- --%Gravel=0.0-- --%Sand=4.6-- --%Silt=60.1-- --%Clay=35.3-- --A-7-6 (34)--			2	3 3 5	1.56 B	29									
	837.8	Medium dense to dense, brown SAND to SANDY LOAM, trace to little gravel; damp to saturated			3	7 10 15	NP	9									
		--RDR 2--															
		--2-in silty clay at 9.5 feet--	10		4	13 13 18	NP	7									
		--saturated--			5	11 17 18	NP	13									
			15		6	13 16 12	NP	10									
	828.8	Medium dense to dense, brown coarse SAND, little gravel; saturated			7	12 13 14	NP	12									
		--RDR 2--															
	825.3	Dense, brown SILT, trace gravel; moist			8	10 16 22	NP	15									
	824.3		20														

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	03-02-2022	Complete Drilling	03-02-2022	While Drilling	▽	11.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	21D50A [84%]	At Completion of Drilling	▼	14.00 ft	
Driller	KS&AP	Logger	A. Scifers	Time After Drilling	NA		
Drilling Method	2.25" ID HSA; boring backfilled upon completion			Depth to Water	▼	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG B5-NAW-11

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 844.05 ft
 North: 1955205.36 ft
 East: 981271.03 ft
 Station: 201+60.80
 Offset: 130.729 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	843.1	12-inch thick dark brown SILTY CLAY --TOPSOIL-- Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2--			1	6 7 10	3.44 B	25									
			5		2	6 9 9	3.61 B	14									
	837.6	Dense, tan SANDY LOAM, trace gravel; damp --RDR 2--			3	9 14 19	NP	4									
	836.1	Medium dense, brown fine to coarse SAND, trace to little gravel; moist to saturated --RDR 2--			4	15 14 12	NP	5									
	832.6	Medium dense, brown to gray SILT, trace gravel; wet to saturated --RDR 2--			5	8 11 12	NP	11									
			15		6	6 6 7	NP	13									
					7	7 8 8	NP	21									
					8	6 8 9	NP	22									
	824.1	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-02-2022** Complete Drilling **03-02-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **11.00 ft**
 At Completion of Drilling \blacktriangledown **14.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B5-NAW-12

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 840.08 ft
 North: 1955118.85 ft
 East: 981460.81 ft
 Station: 203+68.16
 Offset: 123.37 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	839.1	12-inch thick black SANDY LOAM															
		--TOPSOIL--															
		Stiff, brown CLAY LOAM, trace gravel; moist			1	4 4 5	1.97 B	15									
		--FILL--															
		--RDR 2--															
	837.1	Very soft (<0.25P) to soft, black and brown SILTY CLAY, trace gravel; moist			2	3 3 4	0.41 B	20									
		--RDR 2--															
	833.3	Medium dense, gray SANDY LOAM, some gravel; moist			3	7 7 9	NP	12									
		--RDR 2--															
	832.1	Medium dense to dense, brown medium to coarse SAND, little to some gravel; saturated			4	7 6 11	NP	12									
		--RDR 2--															
					5	7 9 8	NP	9									
					6	9 13 14	NP	7									
					7	13 18 16	NP	8									
	822.1	Medium dense, brown fine to medium SAND, trace gravel; saturated			8	13 9 10	NP	21									
		--RDR 2--															
	820.1	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **03-02-2022** Complete Drilling **03-02-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **8.50 ft**
 At Completion of Drilling \blacktriangledown **9.00 ft**
 Time After Drilling **NA**
 Depth to Water \blacktriangledown **NA**

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

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BORING LOG B5-NAW-13

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 837.61 ft
 North: 1955031.73 ft
 East: 981659.01 ft
 Station: 205+83.56
 Offset: 120.552 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	836.6	12-inch thick black SILTY CLAY LOAM															
		--FILL--															
		Stiff, black and brown CLAY LOAM, trace gravel; damp			1	2 3 5	1.00 P	23									
		--FILL--															
	834.6	--RDR 2--															
		Stiff, gray SILTY CLAY, trace gravel; damp			2	4 2 2	1.00 P	28									
		--RDR 2--															
	832.6	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; moist			3	0 0 0	0.00 P	32									
		--RDR 2--															
		--L _L (%)=NP, P _L (%)=NP--															
		--%Gravel=0.0--															
		--%Sand=2.7--															
		--%Silt=69.1--															
		--%Clay=28.2--															
		--A-4 (0)--															
	828.0	Loose to medium dense, gray SILT, trace gravel; moist to saturated			4	0 0 5	0.50 P	20									
		--RDR 2--															
					5	3 4 5	NP	20									
					6	5 4 5	NP	21									
					7	5 5 6	NP	21									
					8	4 4 6	NP	21									
	817.6	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-01-2022** Complete Drilling **03-01-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **GEOPROBE**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **14.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG B5-NAW-14

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 838.57 ft
 North: 1954959.24 ft
 East: 981857.91 ft
 Station: 207+93.77
 Offset: 133.332 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	838.33	3-inch thick brown SILTY CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--	0		1	1 2 2	2.00 P	27									
			5		2	3 2 3	1.50 P	19									
	833.1	Loose to medium dense, brown to gray SILT, trace gravel; moist to saturated --RDR 2--	5		3	4 7 6	NP	17									
		--wet-- --sand seams--	10		4	7 5 6	NP	19									
		--saturated--	15		5	2 4 4	NP	22									
			15		6	4 5 9	NP	20									
	823.1	Medium dense, gray Gravelly SAND to SANDY LOAM; wet --RDR 2--	15		7	6 10 11	NP	10									
			20		8	4 5 5	NP	13									
	818.6	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-01-2022** Complete Drilling **03-01-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **GEOPROBE**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B5-NAW-15

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 836.59 ft
 North: 1955007.24 ft
 East: 982008.37 ft
 Station: 209+11.03
 Offset: 238.117 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	836.42	42-inch thick brown SILTY CLAY --TOPSOIL-- Very stiff to stiff, brown SILTY CLAY, trace gravel; damp --RDR 2--			1	1 2 2	2.00 P	25			Boring terminated at 20.00 ft						
			5		2	2 3 2	1.23 B	28				25					
	831.1	Loose to medium dense, brown to gray SILT, trace gravel; moist to wet --RDR 2--			3	2 2 5	NP	23									
		--gray--			4	4 4 4	NP	22									
			10		5	1 6 12	NP	21									
	824.2	Medium dense, gray GRAVEL to Gravelly SAND; moist to saturated --RDR 2-- --wet to saturated--			6	6 7 7	NP	10									
			15		7	6 5 6	NP	19									
		--RDR 3-- --some rig chatter, 17.5 to 18.5 feet-- --possible cobbles--			8	2 6 5	NP	18									
	818.6	Loose, gray fine to medium SAND, trace gravel; wet --RDR 2--20															
	816.6											40					

GENERAL NOTES

Begin Drilling **03-01-2022** Complete Drilling **03-01-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **GEOPROBE**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **14.00 ft**
 At Completion of Drilling ∇ **10.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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BORING LOG B5-NAW-16

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 831.85 ft
 North: 1955074.51 ft
 East: 982143.00 ft
 Station: 210+05.27
 Offset: 354.529 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	831.2	8-inch thick black SILTY CLAY LOAM --TOPSOIL--															
		Very stiff, black and brown CLAY LOAM to SILTY CLAY LOAM, trace gravel; damp			1	3 6 5	3.00 P	23									
	828.9	--FILL-- --RDR 2--															
		Very stiff, brown SILTY CLAY, trace gravel; damp to moist			2	2 3 3	2.30 B	27									
	826.4	--RDR 2--															
		Loose to medium dense, brown SILT, trace gravel; moist			3	1 2 5	NP	16									
	823.0	--RDR 2--															
		Medium dense, brown fine to medium SAND, trace gravel; moist to wet			4	4 5 5	NP	15									
	821.4	--RDR 2-- --some rig chatter, 10.0 to 11.0 feet--															
		Medium dense, brown Gravelly SAND to SANDY LOAM; moist			5	6 5 6	NP	16									
		--RDR 2 to 3--															
					6	5 6 9	NP	12									
	816.4																
		Medium dense, brown to gray SILT to SILTY LOAM, trace gravel; damp			7	6 9 8	NP	11									
		--RDR 2--															
					8	6 7 8	NP	10									
	811.9																
		Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **03-01-2022** Complete Drilling **03-01-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **GEOPROBE**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **11.00 ft**
 At Completion of Drilling ∇ **7.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



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BORING LOG B5-NAW-17

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 830.27 ft
 North: 1955174.14 ft
 East: 982271.00 ft
 Station: 210+79.57
 Offset: 498.031 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	829.6	8-inch thick brown SILTY CLAY LOAM --TOPSOIL-- Very stiff to hard, brown SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			1	4 3 4	4.50 P	13									
	824.8	Medium dense, brown SILT, trace gravel; moist --RDR 2--	5		2	4 4 5	3.00 P	19									
	820.9	Medium dense, brown Gravelly SAND; moist --RDR 2 to 3--	10		3	2 3 7	NP	13									
	819.8	Medium dense, gray SILT, trace gravel; saturated --RDR 2--			4	3 5 10	NP	16									
	814.8	--less than 1-in gray and white gravel layer-- --RDR 3-- --some rig chatter, 15.0 to 16.0 feet--	15		5	5 6 8	NP	12									
	812.3	Loose, brown SAND to SANDY LOAM, trace gravel; wet --RDR 2--			6	4 4 5	NP	21									
	810.3	Medium dense, brown and gray SANDY GRAVEL; moist --RDR 2--	20		7	5 6 6	NP	12									
Boring terminated at 20.00 ft																	

GENERAL NOTES

Begin Drilling **03-01-2022** Complete Drilling **03-01-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **GEOPROBE**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **11.00 ft**
 At Completion of Drilling ∇ **6.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B5-NAW-18

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 831.16 ft
 North: 1955320.22 ft
 East: 982368.60 ft
 Station: 211+07.32
 Offset: 671.408 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	830.93	3-inch thick black SILTY CLAY LOAM --TOPSOIL-- Stiff, brown CLAY LOAM, trace gravel and brick fragments; damp			1	2 3 3	1.50 P	15									
	828.2	--FILL-- --RDR 2-- Medium dense, brown fine SAND to LOAM, little gravel; damp			2	7 6 10	NP	7									
		--FILL-- --RDR 2--			3	7 8 10	NP	5									
	823.2	Medium dense, brown fine to medium SAND, trace gravel; damp to moist --RDR 2--			4	2 4 6	NP	14									
	820.7	Medium dense, brown Gravelly SAND; wet to saturated --RDR 2--			5	3 4 6	NP	12									
					6	5 5 5	NP	8									
	815.7	Medium dense, brown fine to medium SAND to SANDY LOAM, trace gravel; damp to moist --RDR 2--			7	5 6 11	NP	14									
					8	5 5 8	NP	13									
	811.2	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **02-25-2022** Complete Drilling **02-25-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **GEOPROBE**
 Driller **JS&MG** Logger **M. Rojo** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **10.50 ft**
 At Completion of Drilling ∇ **8.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG B5-Rt34-NAW-01

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 828.06 ft
 North: 1955495.29 ft
 East: 982299.35 ft
 Station: 209+76.10
 Offset: 802.427 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		22-inch thick TOPSOIL															
	826.2	Medium stiff, black and brown SILTY CLAY; moist			1	7 8 8	0.90 B	31									
	825.1	Loose, brown SILT, trace gravel; moist to wet			2	6 4 3	NP	13									
	822.6	Medium dense, brown Gravelly SAND; saturated			3	7 8 10	NP	10									
	820.1	Loose to medium dense, brown SAND to SANDY LOAM, trace gravel; saturated			4	2 1 3	NP	24									
					5	12 5 6	NP	11									
					6	5 3 4	NP	19									
					7	7 6 9	NP	14									
					8	12 6 8	NP	13									
	808.1	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-02-2022** Complete Drilling **03-02-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B5-Rt34-NAW-02

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 825.44 ft
 North: 1955637.60 ft
 East: 982230.01 ft
 Station: 208+58.95
 Offset: 904.177 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	825.14	14-inch thick black SILTY CLAY LOAM --TOPSOIL-- Loose, brown SILT, trace gravel; moist to wet --RDR 2--			1	2 3 2	NP	12									
	822.4	Medium dense, brown SANDY GRAVEL; saturated --RDR 2--			2	5 11 9	NP	9									
	819.9	Loose to medium dense, brown SAND to SANDY LOAM, trace gravel; damp to saturated --RDR 2--			3	4 3 8	NP	17									
					4	3 3 5	NP	22									
		--wet to saturated--			5	4 3 3	NP	20									
					6	4 4 5	NP	16									
					7	9 6 8	NP	13									
					8	2 4 6	NP	16									
	805.4	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **02-25-2022** Complete Drilling **02-25-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **GEOPROBE**
 Driller **JS&MG** Logger **M. Rojo** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **4.50 ft**
 At Completion of Drilling ∇ **0.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG B5-Rt34-NAW-03

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 826.86 ft
 North: 1955812.75 ft
 East: 982153.01 ft
 Station: 207+23.39
 Offset: 1033.538 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	826.2	8-inch thick, brown SILTY CLAY LOAM --TOPSOIL--			1	3 2 6	2.46 B	26									
	823.9	Very stiff, brown SILTY CLAY --RDR 2--			2	4 7 8	NP	8							4 5 6	NR	
	821.4	Medium dense, brown Gravelly SAND; moist --RDR 2-- --trace organic matter--			3	5 9 15	NP	18							4 5 5	NP	27
	820.4	Brown SILT, trace gravel; wet			4	3 12 15	NP	3									
		Medium dense, brown and gray SANDY GRAVEL to Gravelly SAND; wet to saturated --RDR 2--			5	14 11 8	NP	7									
					6	1 4 9	NP	19									
	811.4	Medium dense, brown, medium to coarse SAND, trace gravel; saturated --RDR 2--			7	10 9 13	NP	13									
					8	6 10 10	NP	14									
Boring terminated at 25.00 ft																	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-18-2022** Complete Drilling **02-18-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **AG&TC** Logger **M. Rojo** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **10.00 ft**
 At Completion of Drilling ∇ **4.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG B5-Rt34-NAW-04

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 824.57 ft
 North: 1955983.39 ft
 East: 982108.25 ft
 Station: 206+19.17
 Offset: 1172.28 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	824.24	24-inch thick black SILTY CLAY LOAM															
	823.4	--TOPSOIL-- Hard, brown SILTY CLAY LOAM, trace gravel and organic matter; damp			1	1 1 2	4.50 P	61									
	821.6	--FILL-- Very loose, brown SANDY LOAM, trace gravel; damp			2	0 0 1	0.50 P	45									
	819.1	Medium stiff, brown SILTY CLAY, trace gravel, trace organic matter; moist --RDR 2-- --L _L (%)=40, P _L (%)=17--			3	0 5 11	NP	10									
	816.6	--RDR 2-- Medium dense, brown and gray SANDY GRAVEL to Gravelly SAND; moist to wet			4	6 10 9	NP	7									
					5	7 12 11	NP	13									
					6	9 9 12	NP	12									
		--RDR 3-- --some rig chatter, 15.0 to 16.0 feet-- --possible cobbles--			7	2 6 7	NP	9									
					8	3 5 5	NP	17									
	804.6	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **02-25-2022** Complete Drilling **02-25-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **GEOPROBE**
 Driller **JS&MG** Logger **M. Rojo** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **7.50 ft**
 At Completion of Drilling ∇ **6.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG B6-NAW-01

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 824.64 ft
 North: 1954141.57 ft
 East: 984440.02 ft
 Station: 234+80.46
 Offset: 459.878 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		17-inch thick black SILTY CLAY --TOPSOIL--															
	823.2	Very stiff, brown SILTY CLAY, trace gravel; moist			1	5 4 4	2.21 B	25						9	46 26 16	NP	2
	821.9	Medium dense, brown SILT to SILTY LOAM, trace gravel; damp			2	5 6 8	1.72 B	13						10	12 10 9	NP	8
	819.4	Medium dense, brown SANDY LOAM, trace gravel; damp	5		3	5 8 7	NP	9		800.4	Medium dense, brown SILT, trace gravel; saturated	25					
	816.9	Brown SILT, trace gravel; moist			4	7 7 8	NP	21		799.6	Boring terminated at 25.00 ft						
	815.2	Medium dense, brown fine to medium SAND, trace to little gravel; damp	10		5	4 8 8	NP	3									
	809.4	Medium dense to dense, brown and gray Gravelly SAND; damp to saturated	15		6	2 8 11	NP	3									
					7	12 14 16	NP	3									
					8	4 13 23	NP	3									

GENERAL NOTES

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **23.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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WANGENG 1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG B6-NAW-02

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 827.72 ft
 North: 1953941.45 ft
 East: 984439.05 ft
 Station: 235+60.22
 Offset: 279.768 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
		19-inch thick black SILTY CLAY --TOPSOIL--																
	826.1	Hard, black and brown SILTY CLAY, trace gravel; damp			1	7 6 11	4.50 P	49		805.0				9	8 7 9		NP	3
	825.0	--RDR 2--									Very dense, brown SILTY LOAM to SILT, little gravel; moist							
		Medium dense, tan SILT, trace gravel; dry			2	8 14 14	NP	6			--RDR 2--			10	15 31 36		NP	14
	822.5	--RDR 2--	5							802.7		25						
		Medium dense to dense, tan to brown fine to medium SAND, trace to some gravel; damp			3	12 8 10	NP	2			Boring terminated at 25.00 ft							
		--RDR 2--																
		--medium grained--			4	14 14 11	NP	5										
			10															
					5	5 15 20	NP	3										
					6	7 10 13	NP	3										
			15															
					7	15 14 17	NP	2										
					8	12 13 13	NP	3										
			20															

GENERAL NOTES

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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BORING LOG B6-NAW-03

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 830.80 ft
 North: 1953801.59 ft
 East: 984508.28 ft
 Station: 236+87.07
 Offset: 182.827 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	829.8	12-inch thick black SILTY CLAY --TOPSOIL--															
		Medium dense, brown SANDY LOAM, trace gravel --RDR 2--			1	6 7 6	NP	29						9	10 13 12	NP	3
	827.8	Stiff, gray SILTY CLAY, trace gravel; moist --RDR 2--			2	5 4 5	1.50 P	25						10	14 15 17	NP	3
	826.6	--L _L (%)=39, P _L (%)=16-- --%Gravel=0.0-- --%Sand=27.5-- --%Silt=50.2-- --%Clay=22.2-- --A-6 (15)--			3	9 10 9	NP	6									
	822.8	Loose to medium dense, tan SILT, trace gravel; damp --RDR 2--			4	8 10 11	NP	3									
		Medium dense, brown fine to medium SAND, trace gravel; damp --RDR 2--			5	8 9 10	NP	3									
					6	9 9 15	NP	3									
	815.3	Medium dense, brown medium to coarse SAND, trace to little gravel; damp --RDR 2 to 3--			7	15 13 8	NP	3									
					8	7 6 10	NP	3									
										Boring terminated at 25.00 ft							

GENERAL NOTES

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B6-NAW-04

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 816.98 ft
 North: 1953688.39 ft
 East: 984665.03 ft
 Station: 238+72.99
 Offset: 146.314 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		18-inch thick black SILTY CLAY --TOPSOIL--															
	815.5	Very stiff, black and brown SILTY CLAY, trace organic matter and gravel; moist			1	5 4 6	2.62 B	61									
	814.0	Hard, brown CLAY LOAM, trace gravel; damp			2	5 4 4	4.50 P	12									
	810.7	Medium dense, brown fine to coarse SAND, trace gravel; dry to saturated			3	5 6 7	NP	3									
		--RDR 2--															
		--fine grained--			4	9 10 7	NP	5									
		--medium grained--			5	10 9 8	NP	3									
					6	7 9 11	NP	4									
	801.5	Medium dense, brown Gravelly SAND; saturated			7	9 10 10	NP	12									
		--RDR 2--															
					8	6 8 11	NP	15									
	797.0	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **02-25-2022** Complete Drilling **02-25-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **13.50 ft**
 At Completion of Drilling \blacktriangledown **16.00 ft**
 Time After Drilling **NA**
 Depth to Water \blacktriangledown **NA**

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

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG B6-NAW-05

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 812.97 ft
 North: 1953600.52 ft
 East: 984836.52 ft
 Station: 240+65.50
 Offset: 137.995 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	812.0	12-inch thick, black SILTY CLAY, trace gravel; moist --TOPSOIL--															
	810.2	Stiff, black and gray Organic SILTY CLAY, trace gravel; moist --RDR 2--			1	3 2 5	1.50 P	85									
		Soft, black to brown and black CLAY to SILTY CLAY, trace organic matter, trace gravel; moist --RDR 2-- --L _i (%)=39, P _L (%)=24-- --%Gravel=0.0-- --%Sand=16.0-- --%Silt=63.5-- --%Clay=20.5-- --A-6 (13)--			2	2 2 2	0.41 B	44									
					3	2 1 3	0.49 B	29									
	803.7	Very loose, gray SANDY LOAM to fine SAND, trace gravel; wet to saturated --RDR 2--			4	0 0 0	NR										
					5	2 2 1	NP	16									
					6	3 3 5	NP	30									
	797.5	Loose to medium dense, gray medium to coarse SAND, trace gravel; saturated --RDR 2--			7	4 1 4	NP	18									
					8	6 6 8	NP	16									
	793.0	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-25-2022** Complete Drilling **02-25-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **13.50 ft**
 At Completion of Drilling ∇ **16.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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BORING LOG B6-NAW-05-ST

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 812.97 ft
 North: 1953603.90 ft
 East: 984834.89 ft
 Station: 240+65.50
 Offset: 137.995 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--Blind Drilling to 5.0 feet--															
	808.0	Very soft, gray SILTY CLAY LOAM	5	[Pattern]	1	P C S H	< 0.25 P										
					2	P C S H											
	804.0	Boring terminated at 9.00 ft	10														
			15														
			20														

GENERAL NOTES

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B6-NAW-06

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 813.79 ft
 North: 1953529.99 ft
 East: 984995.25 ft
 Station: 242+41.02
 Offset: 133.793 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	812.8	12-inch thick, black SILTY CLAY, trace gravel; moist --TOPSOIL-- Stiff, brown SILTY CLAY, trace gravel; moist --RDR 2--			1	5 3 2	1.64 B	28									
					2	4 4 16	1.64 B	29									
	807.6	Dense, brown fine SAND, little gravel; damp --RDR 2--			3	17 20 24	NP	3									
	805.8	Medium dense to dense, brown medium to coarse SAND, little gravel; damp --RDR 2--			4	16 21 18	NP	4									
					5	9 10 11	NP	5									
	800.8	Medium dense, brown to gray SANDY GRAVEL to Gravelly SAND; saturated --RDR 2--			6	8 5 8	NP	8									
					7	7 6 8	NP	9									
					8	5 6 5	NP	14									
	793.8	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-25-2022** Complete Drilling **02-25-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **13.50 ft**
 At Completion of Drilling \blacktriangledown **16.00 ft**
 Time After Drilling **NA**
 Depth to Water \blacktriangledown **NA**

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



BORING LOG B6-NAW-07

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 814.22 ft
 North: 1953448.37 ft
 East: 985161.53 ft
 Station: 244+24.35
 Offset: 135.322 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	813.2	12-inch thick SILTY CLAY --TOPSOIL--															
		Stiff to very stiff, brown SILTY CLAY, trace gravel; moist --RDR 2--	1		1	4 5 9	1.97 B	26									
	810.4	Medium dense to dense, brown medium SAND, little gravel; damp --RDR 2--	5		2	8 11 17	NP	6									
					3	20 20 21	NP	2									
					4	15 16 14	NP	4									
	803.7	Medium dense, brown to gray Gravelly SAND; damp to saturated --RDR 2--	10		5	7 7 6	NP	5									
					6	14 12 7	NP										
		--gray-- --saturated--			7	8 8 7	NP	11									
					8	9 8 6	NP	10									
	794.2	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **02-25-2022** Complete Drilling **02-25-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **16.00 ft**
 At Completion of Drilling \blacktriangledown **17.00 ft**
 Time After Drilling **NA**
 Depth to Water \blacktriangledown **NA**

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

WANGENG\1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG B6-NAW-08

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 811.14 ft
 North: 1953373.95 ft
 East: 985345.18 ft
 Station: 246+25.61
 Offset: 145.64 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	809.5	20-inch thick, hard, black and gray SILTY CLAY, trace gravel --TOPSOIL--			1	5 9 15	4.00 P	37			gravel; saturated --RDR 2-- Boring terminated at 20.00 ft						
	808.1	Medium dense, brown fine SAND, little gravel; damp --RDR 2--															
	807.4	Gray SILTY CLAY; damp			2	6 13 15	NP	3				25					
		Medium dense to dense, brown fine to medium SAND, trace to little gravel; damp --RDR 2-- --RDR 2 to 3--	5														
					3	12 15 21	NP	3									
					4	16 13 14	NP	4				30					
					5	6 7 7	NP	14									
	798.1	Medium dense, gray Gravelly SAND; saturated --RDR 2--	15		6	5 8 12	NP	8				35					
	794.1	Gray SILT, trace gravel; saturated --RDR 2--			7	8 7 9	NP	20									
	793.1	Gray fine SAND, trace gravel; saturated			8	4 4 6	NP	20				40					
	791.1	Medium dense, gray SILT, trace	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-25-2022** Complete Drilling **02-25-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **11.00 ft**
 At Completion of Drilling ∇ **9.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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BORING LOG B6-NAW-09

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 808.92 ft
 North: 1953293.44 ft
 East: 985522.18 ft
 Station: 248+19.01
 Offset: 145.326 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Stiff, black SILTY CLAY, trace organic matter; damp --TOPSOIL--			1	2 4 6	1.50 P	29									
	805.9	Very stiff, black and gray SILTY CLAY, trace organic matter and gravel; moist --RDR 2--			2	3 5 6	2.30 B	28									
	802.3	Medium dense, brown and gray to gray SANDY LOAM to SAND, trace gravel; damp to saturated --RDR 2-- --saturated--			3	5 6 9	NP	12									
					4	7 10 13	NP	19									
		--gray--			5	10 10 10	NP	22									
					6	5 6 5	NP	19									
					7	5 5 6	NP	20									
	790.9	Medium dense, gray SILT, trace gravel; saturated --RDR 2--			8	4 5 6	NP	13									
	788.9	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **02-24-2022** Complete Drilling **02-24-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B6-NAW-10

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 806.53 ft
 North: 1953211.09 ft
 East: 985700.54 ft
 Station: 250+16.72
 Offset: 141.916 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Stiff, black SILTY CLAY, trace organic matter, trace gravel; damp															
		--TOPSOIL--			1	4 4 5	1.50 P	21									
	803.5	--wet spoon-- Soft to stiff, black and gray SILTY CLAY, trace gravel; moist			2	3 3 3	0.41 B	26									
	800.1	Medium dense, brown medium to coarse SAND, trace gravel; saturated			3	6 8 9	NP	19									
		--RDR 2--			4	5 6 7	NP	22									
					5	6 7 9	NP	22									
					6	9 9 13	NP	22									
	791.0	Dense to very dense, gray Gravelly SAND; saturated			7	7 50/6"	NP	14									
		--RDR 2--			8	50 25 16	NP	10									
	786.5	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **02-24-2022** Complete Drilling **02-24-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **6.00 ft**
 At Completion of Drilling ∇ **11.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



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BORING LOG B6-NAW-11

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 806.18 ft
 North: 1953125.78 ft
 East: 985859.27 ft
 Station: 251+94.00
 Offset: 128.679 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	805.2	12-inch thick TOPSOIL									saturated						
		Very stiff, gray to black SILTY CLAY, trace gravel; moist --RDR 2--			1	4 5 6	2.00 P	23									
	803.4	Very soft, gray CLAY LOAM, trace gravel; moist															
	802.4	Stiff, black SILTY CLAY, trace gravel; trace organic matter; moist --RDR 2--			2	2 3 3	< 0.25 P	15									
	800.7	Very soft, gray to black and gray CLAY LOAM to SILTY CLAY LOAM, trace to some gravel; moist --RDR 2--			3	2 1 3	< 0.25 P	14									
	797.2	Medium dense gray medium SAND; saturated --RDR 2-- --L _L (%)=NP, P _L (%)=NP-- --%Gravel=28.8-- --%Sand=33.9-- --%Silt=28.6-- --%Clay=8.7-- --A-4 (0)--			4	4 7 8	0.16 B	20									
	793.2	Gray coarse SAND and gravel; saturated --RDR 2--			5	6 8 10	NP	17									
	792.4	Medium dense, gray SILT, trace gravel; saturated --RDR 2--			6	11 13 12	NP	12									
	790.7	Medium dense, gray medium SAND, trace gravel; saturated --RDR 2--			7	6 7 10	NP	25									
	787.2	Medium dense, gray SILT to SILTY LOAM, trace gravel;			8	12 11 10	NP	13									
	786.2																

GENERAL NOTES

Begin Drilling **02-24-2022** Complete Drilling **02-24-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **6.50 ft**
 At Completion of Drilling ∇ **11.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B6-NAW-12

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 806.90 ft
 North: 1953051.08 ft
 East: 986032.28 ft
 Station: 253+84.15
 Offset: 135.844 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		60-inch thick, stiff, black SILTY CLAY, trace gravel and organic matter; moist --TOPSOIL--			1	3 4 3	1.89 B	27			--RDR 2-- Boring terminated at 20.00 ft						
	801.9		5		2	2 2 3	1.15 P	24				25					
	800.6	Medium stiff, black and gray SILTY CLAY, trace gravel; moist			3	3 9 13	NP	8									
		Medium dense, brown to gray fine to medium SAND, little gravel; saturated --RDR 2--			4	10 11 12	NP	16									
	796.4		10		5	10 13 17	NP	15									
		Dense, gray SAND and gravel; saturated --organic matter-- --RDR 2--			6	10 8 9	NP	19									
	793.9		15		7	10 5 6	NP	27									
		Medium dense, gray medium to coarse SAND, trace to some gravel; saturated --RDR 2--			8	5 4 11	NP	12									
	787.9																
	786.9	Medium dense, gray SILT, trace gravel; saturated	20									40					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-24-2022** Complete Drilling **02-24-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **6.50 ft**
 At Completion of Drilling ∇ **9.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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BORING LOG B6-NAW-13

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 810.82 ft
 North: 1952968.04 ft
 East: 986202.33 ft
 Station: 255+74.14
 Offset: 130.211 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	809.8	12-inch thick black SILTY CLAY --TOPSOIL--									trace gravel; moist						
		Very stiff, brown and gray to black SILTY CLAY, trace gravel; moist			1	6 6 8	3.50 P	24			--RDR 2--						
	807.0	Medium dense, tan to brown medium SAND, little gravel; damp	5		2	6 11 13	2.50 P	24				25					
		--RDR 2--															
		--2-in black silty clay layer--			3	12 11 11	NP	6									
	802.8	Medium dense to dense, brown Gravelly SAND to SANDY LOAM; saturated	10		4	11 9 9	NP	8				30					
					5	6 8 11	NP	8									
					6	7 6 10	NP	15				35					
					7	7 13 17	NP	9									
	791.6	Very stiff, gray SILTY CLAY,	20		8	5 7 12	2.38 B	12				40					
	790.8																

GENERAL NOTES

Begin Drilling **02-24-2022** Complete Drilling **02-24-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **9.50 ft**
 At Completion of Drilling ∇ **11.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B6-NAW-14

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 817.63 ft
 North: 1952889.20 ft
 East: 986366.54 ft
 Station: 257+52.99
 Offset: 127.634 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	816.1	18-inch thick, hard, black SILTY CLAY, trace gravel; moist --TOPSOIL--															
		Medium dense, brown medium to coarse SAND, trace to some gravel; damp --RDR 2-- --2-in black silty clay layer--			1	5 10 11	4.26 B	32									
					2	7 9 11	NP	5									
					3	6 7 8	NP	3									
	809.6	Dense, brown medium SAND, little to some gravel; damp --RDR 2--			4	12 17 14	NP	2									
					5	17 21 17	NP	4									
	804.6	Medium dense, brown Gravelly SAND; damp to saturated --RDR 2--			6	10 11 13	NP	5									
					7	7 7 7	NP	10									
					8	6 5 5	NP	11									
	797.6	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **02-23-2022** Complete Drilling **02-23-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **16.00 ft**
 At Completion of Drilling ∇ **19.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B6-NAW-15

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 819.34 ft
 North: 1952815.88 ft
 East: 986542.99 ft
 Station: 259+45.24
 Offset: 140.11 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		49-inch thick, medium to stiff, black SILTY CLAY, trace organic matter; trace gravel; moist --TOPSOIL--			1	3 5 6	2.62 B	28									
	815.3	Medium dense to dense, tan to brown Gravelly SAND; damp --RDR 2 to 3--	5		2	3 6 9	0.82 B	16									
					3	13 15 16	NP	3									
					4	14 17 23	NP	3									
	808.8	Medium dense, brown medium to coarse SAND, trace to little gravel; moist --RDR 2--			5	7 7 9	NP	5									
					6	7 8 12	NP	4									
					7	9 10 10	NP	16									
	801.3	Medium dense, brown Gravelly SAND; saturated --RDR 2--			8	7 9 10	NP	11									
	799.3	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **02-23-2022** Complete Drilling **02-23-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **18.50 ft**
 At Completion of Drilling ∇ **18.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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BORING LOG B6-NAW-16

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 820.40 ft
 North: 1952742.66 ft
 East: 986698.97 ft
 Station: 261+17.90
 Offset: 134.329 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
		Stiff to hard, black SILTY CLAY, trace gravel; moist --TOPSOIL--			1	7 7 9	4.50 P	25										
	816.5	Medium dense to dense, brown fine to medium SAND, trace to little gravel; dry --RDR 2--	5		2	6 9 9	1.00 P	27										
					3	16 19 18	NP	3										
					4	12 19 28	NP	3										
	809.9	Medium dense, brown medium to coarse SAND, trace gravel; damp to saturated --RDR 2--			5	13 12 11	NP	3										
					6	9 8 10	NP	5										
					7	7 13 12	NP	7										
					8	8 10 10	NP	15										
	800.4	Boring terminated at 20.00 ft																

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-23-2022** Complete Drilling **02-23-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **19.50 ft**
 At Completion of Drilling ∇ **19.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



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BORING LOG B6-NAW-17

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 819.34 ft
 North: 1952662.32 ft
 East: 986887.18 ft
 Station: 263+18.13
 Offset: 140.065 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	818.6	9-inch thick black SILTY CLAY; damp															
	818.3	--TOPSOIL--															
		Brown SAND			1	4 6 6	2.50 P	20									
	816.6	Very stiff, black SILTY CLAY, trace gravel; moist															
		--1-in brown sand layer; saturated--															
	815.5	--RDR 2--			2	4 5 10	NP	18									
		Medium dense, brown fine SAND, trace gravel; saturated															
		--RDR 2--															
	813.1	(1.5P)Stiff, black and brown CLAY LOAM to LOAM, trace gravel; moist			3	10 17 25	NP	2									
		--RDR 2--															
		Dense, brown fine to medium SAND, little gravel; damp															
		--RDR 2--															
					4	8 16 26	NP	4									
					5	9 19 13	NP	4									
	806.3	Stiff, black SILTY CLAY, trace gravel; moist															
	805.3	--RDR 2--			6	8 9 13	NP	4									
		Medium dense, gray to brown medium to coarse SAND, trace to little gravel; damp															
		--RDR 2--															
					7	5 5 13	NP	23									
					8	4 5 5	NP	24									
	799.3	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-23-2022** Complete Drilling **02-23-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

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

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



BORING LOG B6-NAW-18

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 817.60 ft
 North: 1952585.86 ft
 East: 987054.18 ft
 Station: 265+06.35
 Offset: 138.255 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	816.4	14-inch thick black SILTY CLAY, trace gravel; moist															
	815.8	--TOPSOIL--															
		Hard, gray SILTY CLAY, trace gravel; damp			1	6 8 14	4.50 P	47						9	4 4 6	NP	28
		--RDR 2--								795.1							
		Loose to dense, brown Gravelly SAND to SANDY LOAM; dry to saturated			2	9 14 12	NP	2			Boring terminated at 22.50 ft						
		--RDR 2--															
		--light gray, fine sand--	5														
					3	12 17 14	NP	9									
					4	10 9 13	NP	6									
			10														
					5	10 8 7	NP	4									
					6	6 6 7	NP	11									
		--saturated--															
			15														
					7	5 3 4	NP	24									
					8	4 4 5	NP	25									
			20														

GENERAL NOTES

Begin Drilling **02-23-2022** Complete Drilling **02-23-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **13.50 ft**
 At Completion of Drilling ∇ **19.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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BORING LOG B6-NAW-19

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 818.46 ft
 North: 1952507.18 ft
 East: 987223.76 ft
 Station: 266+93.50
 Offset: 138.999 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	817.0	Very stiff, black SILTY CLAY, trace gravel; moist --TOPSOIL-- --RDR 2--			1	5 5 7	NP	14		795.5	Medium dense, brown, fine to medium SAND, trace gravel; saturated --RDR 2--			9	6 4 7	NP	12	
		--L _L (%)=NP, P _L (%)=NP-- --%Gravel=0.0-- --%Sand=0.9-- --%Silt=65.6-- --%Clay=33.5-- --A-4 (0)--	5		2	5 6 4	NP	20		793.5	Boring terminated at 25.00 ft	25		10	8 6 8	NP	13	
	811.8	Medium dense to dense, brown to gray, fine to medium SAND, trace to little gravel; damp --RDR 2--			3	8 11 9	NP	19										
			10		4	4 9 13	NP	4										
					5	11 18 16	NP	4										
			15		6	7 13 20	NP	6										
	803.0	Medium dense, brown to gray Gravelly SAND to SANDY GRAVEL; saturated --RDR 2--			7	8 8 9	NP	8										
					8	8 8 9	NP	13										

GENERAL NOTES

Begin Drilling **02-18-2022** Complete Drilling **02-21-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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

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BORING LOG B6-NAW-20

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 821.42 ft
 North: 1952428.78 ft
 East: 987398.11 ft
 Station: 268+85.59
 Offset: 139.1 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Hard, black SILTY CLAY, trace gravel; moist															
	819.9	--TOPSOIL-- --RDR 2--			1	5 11 21	4.50 P	39						9	7 6 8	NP	20
	818.4	Dense, brown Gravelly SANDY LOAM; dry															
	817.6	--RDR 2--			2	6 9 9	NP	3						10	6 7 7	NP	19
		Very stiff, black SILTY CLAY, trace gravel; moist															
		Medium dense, brown, fine SAND, little gravel; dry															
	815.9	--RDR 2-3-- --rig chatter; possible cobbles--															
		Dense to very dense, brown SANDY GRAVEL; damp			3	37 24 26	NP	5									
		--RDR 3-- --rig chatter; possible cobbles--															
					4	26 25 16	NP	3									
	810.9	Medium dense, brown, fine to medium SAND, trace to little gravel; damp to moist			5	9 10 14	NP	4									
		--RDR 3-4--															
					6	8 9 11	NP	4									
	805.9	Medium dense, brown Gravelly SAND; saturated			7	8 9 8	NP	15									
		--RDR 2--															
					8	7 8 8	NP	15									

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	02-18-2022	Complete Drilling	02-18-2022	While Drilling	▽	16.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	21D50A [84%]	At Completion of Drilling	▼	17.00 ft	
Driller	KS&AP	Logger	A. Scifers	Time After Drilling	NA		
Drilling Method	3.25" ID HSA; boring backfilled upon completion			Depth to Water	▼	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG B6-NAW-21

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 820.73 ft
 North: 1952349.49 ft
 East: 987573.36 ft
 Station: 270+79.08
 Offset: 143.577 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		14-inch thick TOPSOIL								800.2	Medium dense, brown, medium to coarse SAND, little to some gravel; saturated						
	819.6	Medium stiff to very stiff, brown and black SILTY CLAY, trace gravel; moist --RDR 2--		X	1	6 6 9	0.50 P	25			--RDR 2--		X	9	4 5 6	NP	23
	817.0	Medium dense, brown Gravelly SAND; dry --RDR 2-3--		X	2	7 16 13	NP	3		796.7	Medium dense, brown SILT, trace gravel; saturated		X	10	5 5 10	NP	24
					3	13 13 15	NR	5		795.7	Boring terminated at 25.00 ft						
	812.7	Medium dense, brown, fine to medium SAND, little to some gravel; dry to damp --RDR 2--		X	4	8 10 15	NP	3									
				X	5	6 8 10	NP	3									
				X	6	8 8 7	NP	4									
	805.2	Medium dense, brown Gravelly SAND to SANDY GRAVEL; saturated --RDR 2--		X	7	17 13 29	NP	9									
				X	8	17 12 12	NP	10									

GENERAL NOTES

Begin Drilling **02-18-2022** Complete Drilling **02-18-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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BORING LOG B6-NAW-22

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 815.58 ft
 North: 1952268.00 ft
 East: 987760.38 ft
 Station: 272+93.12
 Offset: 139.941 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	814.1	Medium stiff, black SILTY CLAY, trace gravel; damp --TOPSOIL-- --RDR 2--			1	4 2 3	0.50 P	123		795.1	Medium dense, brown, coarse SAND, some gravel; saturated --RDR 2-- --3-inch thick SILT on bottom--			9	10 8 7	NP	10
		Very stiff, black and gray SILTY CLAY, little gravel; moist --RDR 2-- --L _L (%)=47, P _L (%)=17-- --%Gravel=0.0-- --%Sand=4.9-- --%Silt=67.5-- --%Clay=27.7-- --A-7-6 (3)--			2	5 5 8	2.46 B	26						10	4 7 9	NP	20
	810.1	Very stiff, brown LOAM to CLAY LOAM, little gravel; damp --RDR 2--			3	4 3 3	3.00 P	10									
	807.6	Medium dense, gray and brown SANDY LOAM, little to some gravel; damp --RDR 2--			4	4 4 6	NP	12									
	805.1	Loose, gray and brown SILT to SILTY CLAY LOAM, little gravel; saturated --RDR 2--			5	6 3 3	NP	14									
	802.6	Very loose to loose, brown, SANDY LOAM to SAND, trace to little gravel; saturated --RDR 2--			6	2 1 1	NP	21									
					7	1 2 5	NP	18									
					8	10 5 3	NP	16									
											Boring terminated at 25.00 ft						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-18-2022** Complete Drilling **02-18-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **11.00 ft**
 At Completion of Drilling ∇ **16.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B6-NAW-23

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 817.21 ft
 North: 1952187.26 ft
 East: 987915.06 ft
 Station: 274+56.95
 Offset: 135.731 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick TOPSOIL								796.7							
	816.1	Very stiff, black and brown															
	815.4	SILTY CLAY, trace gravel; moist			1	7 5 6	2.00 P	22						9	13 6 9	NP	19
		Medium dense, brown SILT to SILTY LOAM, trace to little gravel; dry to damp												10	20 9 10	NP	13
			5		2	2 5 6	NP	6		792.2		25					
					3	10 14 16	NP	4									
	808.1	Loose to medium dense, brown medium to coarse SAND; little to some gravel; damp to saturated	10		4	14 12 9	NP	3				30					
		--RDR 2-- --medium grained--															
					5	4 4 5	NP	6									
		--coarse grained-- --saturated--															
			15		6	4 3 4	NP	15				35					
		--clay seam--															
					7	19 12 9	NP	9									
	799.2	Dense, brown medium to coarse SAND, some gravel; saturated															
		--RDR 2--															
			20		8	21 23 13	NP	10				40					

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	02-16-2022	Complete Drilling	02-16-2022	While Drilling	▽	13.50 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	20D50T [80%]	At Completion of Drilling	▼	16.00 ft	
Driller	KS&AP	Logger	A. Scifers	Time After Drilling	NA		
Drilling Method	2.25" ID HSA; boring backfilled upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG B6-NAW-24

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 819.05 ft
 North: 1952098.85 ft
 East: 988081.75 ft
 Station: 276+41.31
 Offset: 127.157 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		22-inch thick TOPSOIL								798.6	Medium dense, gray Gravelly SAND; saturated						
	817.2	--3-in tan gravel and cobble fragments layer--			1	6 14 10	1.00 P	14			--RDR 2--			9	7 7 13	NP	9
	815.2	Stiff, black SILTY CLAY, little gravel; moist			2	3 4 3	1.00 P	22			--RDR 2--			10	6 7 6	NP	9
	813.6	Loose, brown SILTY LOAM, little gravel; damp	5							794.1	Boring terminated at 25.00 ft	25					
	812.4	Brown fine to medium SAND, trace gravel; damp			3	2 2 2	NP	7									
	811.1	Stiff, gray SILTY CLAY, trace gravel; moist															
		Loose to medium dense, brown fine to coarse SAND, trace gravel; damp to saturated			4	3 3 4	NP	6									
		--RDR 2--	10														
					5	12 13 9	NP	7									
		--medium grained-- --saturated--			6	9 6 5	NP	13									
			15														
		--coarse grained--			7	8 14 14	NP	12									
	801.1	Medium dense, brown SILT to SILTY LOAM, trace to little gravel; saturated			8	8 7 11	NP	24									
		--RDR 2--	20														

GENERAL NOTES

Begin Drilling **02-16-2022** Complete Drilling **02-16-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **13.50 ft**
 At Completion of Drilling ∇ **15.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG B6-NAW-25

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 815.47 ft
 North: 1952022.46 ft
 East: 988256.14 ft
 Station: 278+31.67
 Offset: 130.49 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		14-inch thick TOPSOIL															
	814.3	Very stiff, black and gray SILTY CLAY, trace gravel; moist --RDR 2--			1	7 4 4	2.50 P	75						9	38 21 15	NP	14
	813.0		Loose, brown LOAM to SANDY LOAM, little gravel; moist --RDR 2--			2	2 2 2	NP	17			--gray--		10	11 19 35	NP	15
	808.7	Medium dense, brown medium to coarse SAND, trace to little gravel; damp to saturated --RDR 2--			3	3 3 2	NR										
						4	5 7 7	NP	7								
					5	7 6 6	NP	9									
					6	8 10 12	NP	9									
		--little gravel--			7	14 10 10	NP	11									
	797.5	Dense to very dense, brown to gray Gravelly SAND; saturated --RDR 2--			8	23 21 12	NP	8									
										Boring terminated at 25.00 ft							

GENERAL NOTES

Begin Drilling **02-16-2022** Complete Drilling **02-16-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **11.00 ft**
 At Completion of Drilling ∇ **15.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG B6-NAW-26

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 814.33 ft
 North: 1951952.16 ft
 East: 988428.54 ft
 Station: 280+17.68
 Offset: 138.532 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	813.3	12-inch thick black SILTY CLAY --TOPSOIL--								793.8	Medium dense, brown coarse SAND, trace gravel; saturated --RDR 2--						
		Stiff to very stiff, black, brown and gray SILTY CLAY, trace gravel; moist			1	3 4 5	2.05 B	28						9	11 12 15	NP	8
		--FILL-- --RDR 2-- --brown--															
			5		2	2 2 3	0.25 B	24		789.3	Boring terminated at 25.00 ft			10	6 10 13	NP	11
	808.8	Stiff, black SILTY CLAY; damp --Buried TOPSOIL--															
	807.9	Loose, brown SILT, trace gravel; damp			3	5 4 2	1.00 P	39									
	806.3	Medium dense, brown Gravelly SAND; moist															
		--RDR 2--	10		4	5 4 6	NP	19									
	803.8	Very loose, brown SANDY LOAM, little gravel; saturated --RDR 2--															
					5	2 1 1	NP	21									
	801.3	Medium dense, brown SANDY GRAVEL; saturated --RDR 2--															
			15		6	7 6 6	NP	12									
	798.8	Medium dense, brown fine SAND to SANDY LOAM, trace to little gravel; saturated --RDR 2--															
					7	4 7 12	NP	16									
					8	4 7 12	NP	16									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-16-2022** Complete Drilling **02-16-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



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BORING LOG B6-NAW-27

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 815.55 ft
 North: 1951867.76 ft
 East: 988588.32 ft
 Station: 281+98.10
 Offset: 128.483 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Stiff, black SILTY CLAY, trace gravel; moist															
	814.0	--TOPSOIL-- --RDR 2--			1	4 3 4	1.00 P	35									
	812.6	Loose, brown SANDY LOAM, trace gravel; moist															
		--RDR 2--															
		Stiff, gray and brown SILTY CLAY, trace gravel; moist			2	2 2 4	1.00 P	19									
	810.1	--RDR 2--	5														
		--AUGER REFUSAL-- --Concrete chip pulled from hole-- Boring terminated at 6.00 ft															
			10														
			15														
			20														

GENERAL NOTES

Begin Drilling **02-21-2022** Complete Drilling **02-21-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B6-NAW-28

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 824.15 ft
 North: 1951794.76 ft
 East: 988781.45 ft
 Station: 284+07.38
 Offset: 140.945 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	822.7	Very stiff, black SILTY CLAY, trace gravel; moist --TOPSOIL-- --trace organic matter--			1	7 6 5	2.21 B	25		801.2	Medium dense, brown, fine to medium SAND, little gravel; damp --RDR 2-3--			9	4 9 6	NP	9
			5		2	9 14 12	NR			799.2	Medium dense, brown, fine to medium SAND, little gravel; saturated --RDR 2--	25		10	5 7 22	NP	17
					3	20 22 23	NP	3			Boring terminated at 25.00 ft						
		--rig chatter; possible cobbles--			4	21 23 23	NP	2									
	813.7	--rig chatter; possible cobbles-- Medium dense, brown Gravelly SAND; saturated --RDR 2--			5	18 24 24	NP	3									
					6	14 23 23	NP	3									
			15		7	17 24 22	NP	3									
					8	11 9 6	NP	3									
			20														

GENERAL NOTES

Begin Drilling **02-21-2022** Complete Drilling **02-21-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **21.00 ft**
 At Completion of Drilling ∇ **21.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG B6-NAW-29

WEI Job No.: 121-03-01

Client **Gannett Fleming**
Project **US Route 20 From Randall Rd to Shales Parkway**
Location **Elgin, Illinois**

Datum: NAVD 88
Elevation: 825.30 ft
North: 1951710.22 ft
East: 988931.76 ft
Station: 285+77.95
Offset: 125.598 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	825.13	13-inch thick TOPSOIL								804.8	Medium dense, brown coarse SAND, little gravel; saturated --RDR 2--						
	824.3	9-inch thick, brown SANDY GRAVEL Stiff to hard, black and gray CLAY LOAM, little to some gravel; moist --FILL-- --RDR 2--			1	3 4 3	4.00 P	18						9	5 6 8	NP	11
			5		2	3 7 8	1.50 P	12						10	8 9 12	NP	15
	819.8	Very soft, gray SILTY CLAY, some gravel; moist --RDR 2-- --L _L (%)=NP, P _L (%)=NP-- --%Gravel=15.1-- --%Sand=28.4-- --%Silt=40.9-- --%Clay=15.5-- --A-4 (0)--			3	6 7 4	0.25 P	42									
	817.3	Very stiff, gray CLAY LOAM to SILTY CLAY LOAM, little gravel; moist --RDR 2--			4	5 4 8	3.00 P	11									
	814.8	Medium dense to dense, brown SANDY GRAVEL; damp --RDR 2--			5	14 20 22	NR	9									
			15		6	7 10 9	NP	3									
	809.8	Medium dense, brown medium SAND, little gravel; damp --RDR 2--			7	16 9 12	NP	2									
			20		8	11 9 11	NP	3									
											Boring terminated at 25.00 ft						

GENERAL NOTES

Begin Drilling **02-21-2022** Complete Drilling **02-21-2022**
Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **21.50 ft**
At Completion of Drilling ∇ **21.50 ft**
Time After Drilling **NA**
Depth to Water ∇ **NA**

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

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BORING LOG B6-NAW-30

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 827.56 ft
 North: 1951638.99 ft
 East: 989107.76 ft
 Station: 287+69.82
 Offset: 142.232 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	825.7	Very stiff, black SILTY CLAY, trace gravel; moist --TOPSOIL-- --3-inch thick gravel in middle-- --RDR 2--	0-3	X	1	3 4 6	2.05 B	28		804.6	Medium dense, brown Gravelly SAND; saturated --RDR 2--	0-3	X	9	11 11 10	NP	5
	823.6	Stiff, black SILTY CLAY, trace gravel; moist --RDR 2--	3-5	X	2	3 4 5	NP	21		802.6	Boring terminated at 25.00 ft	3-5	X	10	8 8 9	NP	9
	822.1	Loose, brown SILTY LOAM, trace gravel; moist --RDR 2--	5-10	X	3	8 17 16	NP	8									
	821.1	Stiff, black SILTY CLAY, trace gravel; moist --RDR 2--	10-16	X	4	16 26 33	NP	22									
	819.6	Dense, tan Gravelly SANDY LOAM; damp --RDR 2--	16-23	X	5	16 23 18	NP	4									
	817.6	Very stiff, gray SILTY CLAY, trace gravel; moist --RDR 2--	23-35	X	6	14 10 12	NP	3									
	814.6	Dense, brown and tan SANDY GRAVEL; damp --RDR 3-- --rig chatter from 10' to 11'; possible cobbles--	35-40	X	7	17 18 19	NP	4									
		Medium dense to dense, brown, fine to medium SAND, trace to little gravel; damp to moist --RDR 2--		X	8	15 14 27	NP	7									

GENERAL NOTES

Begin Drilling **02-21-2022** Complete Drilling **02-21-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM (-lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **23.50 ft**
 At Completion of Drilling ∇ **23.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B7-NAW-01

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 834.66 ft
 North: 1951047.54 ft
 East: 990911.73 ft
 Station: 307+09.07
 Offset: 130.702 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick CONCRETE --PAVEMENT--															
	833.7 833.4	Gray and white SANDY GRAVEL; damp --AGGREGATE BASE--			1	16 14 9	NP	9									
	831.7	Medium dense, black and brown LOAM, little gravel --FILL-- --RDR 2--			2	28 8 8	NP	6									
	829.2	Medium dense, brown fine SAND, trace gravel; damp --FILL-- --RDR 2--			3	11 4 5	1.50 P	22									
		Stiff, brown SILTY CLAY LOAM to CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			4	2 2 4	1.00 P	11									
	824.2	Dense to very dense, brown Gravelly SAND; damp --RDR 2 to 3--			5	9 12 21	NP	5									
		--some rig chatter-- --possible cobbles--			6	20 19 13	NP	6									
		--some rig chatter-- --possible cobbles--			7	46 30 26/3"	NP	3									
					8	50/3"	NP	2									
	814.7	Boring terminated at 20.00 ft	20														

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-02-2022** Complete Drilling **03-02-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **KG&TC** Logger **M. Rojo** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



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BORING LOG B7-NAW-02

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 830.50 ft
 North: 1950984.60 ft
 East: 991102.09 ft
 Station: 309+10.22
 Offset: 96.087 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick CONCRETE --PAVEMENT--															
	829.5 829.3	Gray and white SANDY GRAVEL; damp --AGGREGATE BASE--			1	35 16 12	NP	7									
		Medium dense, brown Gravelly SAND; damp --FILL-- --RDR 2--			2	50/5"	NR										
	825.5	Stiff, brown SILTY CLAY LOAM; damp --FILL-- --RDR 2--	5		3	3 6 5	1.25 P	16									
	823.9	Medium dense, brown fine SAND, trace gravel; damp --FILL-- --RDR 2--			4	5 8 11	NP	4									
	822.5	Medium dense to dense, brown Gravelly SAND, trace cobbles; damp --FILL-- --RDR 2-- --RDR 3--	10		5	37 13 17	NP	4									
		--some rig chatter-- --possible cobbles--			6	7 13 16	NP	2									
	815.0	Medium dense to very dense, brown fine SAND, trace gravel; damp --RDR 2--			7	23 9 12	NP	6									
	811.5	Boring terminated at 19.00 ft			8	50/4"	NP	6									
			20														

GENERAL NOTES

Begin Drilling **03-02-2022** Complete Drilling **03-02-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **KG&TC** Logger **M. Rojo** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B7-NAW-03

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 826.90 ft
 North: 1950939.56 ft
 East: 991295.67 ft
 Station: 311+11.44
 Offset: 86.926 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick CONCRETE --PAVEMENT--															
	825.9																
	825.4	6-inch thick ASPHALT --PAVEMENT--															
	824.9	Gray SANDY GRAVEL; damp --AGGREGATE BASE--			1	17 20 12	NP										
		Loose to very loose, gray and white coarse SAND, some gravel; moist to wet															
		--RDR 2--			2	5 2 2	NP	11									
					3	2 2 1	NP	10									
	818.9	Dense, brown SANDY GRAVEL; damp --cobble fragments-- --RDR 2--			4	4 8 40	NP	3									
	816.4	Medium dense, brown fine SAND; damp --RDR 2--			5	5 6 8	NP	18									
	813.9	Dense to very dense, brown SANDY GRAVEL; damp to moist --RDR 2 to 3-- --possible cobbles--			6	11 16 16	NP	5									
					7	50/5"	NP	6									
					8	13 16 17	NP	4									
	806.9	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **03-01-2022** Complete Drilling **03-01-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20CME55T[81%]**
 Driller **K&T** Logger **M. Sadowski** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **5.00 ft**
 At Completion of Drilling ∇ **open**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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BORING LOG B7-NAW-04

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 824.48 ft
 North: 1950917.53 ft
 East: 991510.83 ft
 Station: 313+32.79
 Offset: 70.278 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	823.7	10-inch thick CONCRETE --PAVEMENT--									LOAM, trace gravel						
	823.1	7-inch thick ASPHALT --PAVEMENT--									Boring terminated at 20.00 ft						
	821.2	Dense, brown SANDY GRAVEL; dry --AGGREGATE BASE--			1	23 23 20	NP	4									
	819.0	Medium dense, brown coarse SAND, trace gravel; damp --FILL-- --RDR 2--	5		2	11 8 5	NP	4				25					
		Medium dense to very dense, brown and gray SANDY GRAVEL; dry --RDR 3--			3	4 8 28	NP	4									
		--some rig chatter, 7.5 to 8.5 feet-- --possible cobbles-- --RDR 3 to 4--			4	13 12 12	NP	6				30					
		--hard drilling-- --possible cobbles-- --RDR 4--	10		5	18 50/5"	NP	3									
					6	38 45 50/4"	NP	5				35					
		--frequent rig chatter-- --possible cobbles--	15		7	15 28 20	NP	5									
	805.0	--wet split spoon--			8	25 26 10	2.75 P	18									
	804.5	Very stiff, brown SILTY CLAY	20									40					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **R&P** Logger **F. Bozga** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **19.00 ft**
 At Completion of Drilling ∇ **19.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 823.70 ft
 North: 1950906.56 ft
 East: 991695.75 ft
 Station: 315+18.25
 Offset: 69.602 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	822.8	11-inch thick CONCRETE --PAVEMENT--															
	822.2	7-inch thick ASPHALT --PAVEMENT--															
	820.7	Very dense, brown SANDY GRAVEL; dry --AGGREGATE BASE--			1	23 50/5"	NR	3									
		Stiff to very stiff, dark brown to brown CLAY LOAM to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--	5		2	10 7 8	2.50 P	14									
					3	7 6 7	1.75 P	15									
					4	4 4 6	1.97 B	30									
	813.2	Medium stiff, brown SILTY CLAY; damp --RDR 2--			5	2 3 2	0.66 B	34									
	810.7	Loose, brown SILTY LOAM; damp --RDR 2--			6	3 3 3	NP	19									
	808.2	Medium dense to very dense, brown Gravelly LOAM; damp to moist --RDR 3--			7	5 13 16	NP	12									
					8	16 24 37	NP	6									
	803.7	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **R&P** Logger **F. Bozga** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B7-NAW-06

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 823.41 ft
 North: 1950900.14 ft
 East: 991896.02 ft
 Station: 317+17.76
 Offset: 73.184 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	822.6	10-inch thick CONCRETE --PAVEMENT--									--wet split spoon--						
	822.0	7-inch thick ASPHALT --PAVEMENT--									Boring terminated at 20.00 ft						
	821.4	Dense, brown SANDY GRAVEL; dry --AGGREGATE BASE--			1	28 22 13	NP	10									
		Stiff to very stiff, dark brown SILTY CLAY LOAM to CLAY LOAM, little gravel; damp --FILL-- --RDR 2--			2	3 7 8	3.50 P	15									
	817.9	Very stiff, brown SILTY CLAY LOAM, trace gravel; damp --RDR 2--			3	5 7 8	1.75 P	28									
					4	4 5 8	2.46 B	24									
	812.9	Dense to very dense, brown SANDY GRAVEL; dry to wet --cobble fragments-- --RDR 3--			5	14 24 38	NP	4									
		--some rig chatter-- --possible cobbles--			6	10 14 17	NP	6									
					7	19 19 13	NP	5									
					8	7 18 17	NP	5									
	803.4		20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **R&P** Logger **F. Bozga** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **19.75 ft**
 At Completion of Drilling ∇ **19.75 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG B7-NAW-07

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 822.80 ft
 North: 1950893.91 ft
 East: 992101.56 ft
 Station: 319+26.04
 Offset: 67.032 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	821.9	11-inch thick CONCRETE --PAVEMENT--															
	821.3	7-inch thick ASPHALT --PAVEMENT--															
	819.6	Very stiff, brown SILTY CLAY LOAM, trace gravel --FILL-- --RDR 2--			1	15 13 7	2.00 P	17									
		Loose to medium dense, brown SILTY LOAM; damp to moist --RDR 2--			2	3 4 5	NP	17									
					3	3 6 6	NP	16									
	814.8	Dense to very dense, brown SANDY GRAVEL; dry --cobble fragments-- --RDR 3 to 4--			4	3 20 28	NP	6									
					5	4 50/5"	NP	5									
		--some to frequent rig chatter-- --possible cobbles--			6	13 31 35	NP	4									
	807.3	--some to frequent rig chatter-- --possible cobbles-- Stiff to very stiff, gray CLAY LOAM to SILTY CLAY LOAM, trace gravel; damp --RDR 2--			7	9 10 12	2.87 B	10									
	802.8				8	8 15 16	1.75 P	11									
		Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **R&P** Logger **F. Bozga** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG B7-NAW-08

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 822.22 ft
 North: 1950881.72 ft
 East: 992287.16 ft
 Station: 321+12.49
 Offset: 58.913 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	821.4	10-inch thick CONCRETE --PAVEMENT--															
	820.9	6-inch thick ASPHALT --PAVEMENT--															
		Very stiff, brown SILTY CLAY LOAM, trace gravel --FILL--			1	23 11 8	2.50 P	31									
	818.0	Medium dense to very dense, brown SANDY GRAVEL; dry --RDR 2 to 3-- --RDR 3-- --some rig chatter-- --possible cobbles--	5		2	5 9 5	NR										
					3	10 40 37	NP	6									
					4	18 21 16	NP	5									
		--RDR 3 to 4--			5	11 12 7	NP	6									
		--frequent rig chatter-- --possible cobbles--			6	8 11 11	NP	5									
	805.7	Very stiff, gray CLAY LOAM to SILTY CLAY LOAM, trace gravel; damp --RDR 2--			7	19 15 14	3.53 B	11									
	802.2				8	7 11 11	3.28 B	11									
		Boring terminated at 20.00 ft															

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GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **R&P** Logger **F. Bozga** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



BORING LOG B7-NAW-09

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 821.53 ft
 North: 1950871.55 ft
 East: 992493.44 ft
 Station: 323+15.56
 Offset: 52.668 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	820.6	11-inch thick CONCRETE --PAVEMENT--															
	820.0	7-inch thick ASPHALT --PAVEMENT--															
	818.3	Medium dense, gray and white coarse GRAVEL; damp to moist --AGGREGATE BASE--			1	13 6 7	NP										
		Medium stiff, brown CLAY LOAM to SANDY CLAY LOAM, trace gravel; damp --RDR 2--	5		2	11 2 2	0.50 P	19									
					3	3 3 3	0.50 P	18									
	813.5	Loose, brown SANDY LOAM; damp to wet --RDR 2--	10		4	2 3 3	NP	15									
					5	1 2 2	NP	20									
					6	1 3 4	NP	21									
	806.0	Medium dense to dense, gray SANDY GRAVEL; wet to saturated --RDR 2--			7	6 7 16	NP	12									
					8	6 10 22	NP	11									
	801.5	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-01-2022** Complete Drilling **03-01-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20CME55T[81%]**
 Driller **K&T** Logger **M. Sadowski** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **14.50 ft**
 At Completion of Drilling ∇ **16.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



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BORING LOG B7-NAW-10

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 820.43 ft
 North: 1950867.58 ft
 East: 992694.20 ft
 Station: 325+16.40
 Offset: 53.177 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	819.5	11-inch thick CONCRETE --PAVEMENT--															
	819.0	6-inch thick ASPHALT --PAVEMENT--															
	818.4	Brown and gray SANDY GRAVEL; damp --AGGREGATE BASE--			1	11 4 5	3.75 P										
	817.2	Very stiff, brown and gray SILTY CLAY; damp --FILL-- --RDR 2--			2	19 8 8	NP	6									
	814.9	Medium dense, brown medium SAND; damp --RDR 2--															
	812.4	Very stiff, brown and gray SILTY CLAY LOAM to SILTY LOAM; moist --RDR 2--			3	2 3 2	2.25 P	17									
	809.9	Medium stiff, brown SILTY CLAY LOAM; moist to wet --RDR 2--			4	1 2 2	0.50 P	22									
	808.2	Medium dense, brown to gray LOAM; damp to moist --RDR 2--			5	3 8 9	NP	19									
	807.4	Medium dense, gray medium SAND, little gravel; wet --RDR 2--															
	805.4	Medium stiff, brown and gray SILTY CLAY LOAM, trace gravel; moist --RDR 2--			6	6 7 8	0.50 P	21									
	800.4	Very stiff, gray SILTY CLAY, trace gravel; damp --RDR 2--			7	2 6 7	3.77 B	12									
	800.4	Boring terminated at 20.00 ft			8	3 5 7	2.62 B	12									

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22

GENERAL NOTES

Begin Drilling **03-01-2022** Complete Drilling **03-01-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20CME55T[81%]**
 Driller **K&T** Logger **M. Sadowski** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **12.25 ft**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

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



BORING LOG B7-NAW-11

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 818.05 ft
 North: 1950858.61 ft
 East: 992896.99 ft
 Station: 327+19.17
 Offset: 48.455 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	817.1	11-inch thick CONCRETE --PAVEMENT--															
	816.6	6-inch thick ASPHALT --PAVEMENT--															
	816.1	Brown and gray SANDY GRAVEL; damp --AGGREGATE BASE--			1	12 10 7	2.75 P										
	814.6	Very stiff, brown and gray SILTY CLAY to SILTY CLAY LOAM, little gravel; damp --RDR 2--			2	11 5 5	NP	15									
	812.6	Medium dense, brown LOAM, little gravel; damp --RDR 2--			3	7 5 5	3.44 B	13									
		Very stiff, brown and gray to gray SILTY CLAY, trace to little gravel; damp --RDR 2--			4	5 5 7	2.38 B	13									
		--gray--			5	3 4 7	2.05 B	12									
					6	4 7 7	2.00 P	13									
	800.8	Medium dense, gray GRAVEL; saturated			7	4 5 22	2.13 B	13									
	800.1	Very dense, brown SANDY GRAVEL; saturated --RDR 2 to 3--			8	20 33 50/2"	NP	10									
	798.1	Boring terminated at 20.00 ft															

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22

GENERAL NOTES

Begin Drilling **03-01-2022** Complete Drilling **03-01-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20CME55T[81%]**
 Driller **K&T** Logger **M. Sadowski** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **17.25 ft**
 At Completion of Drilling ∇ **16.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B7-NAW-12

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 814.04 ft
 North: 1950854.39 ft
 East: 993090.94 ft
 Station: 329+13.08
 Offset: 48.173 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		17-inch thick CONCRETE --PAVEMENT--															
	812.6	Medium dense, gray SANDY GRAVEL; damp			1	23 15 9	NP	12									
	811.3	--FILL--															
		Very stiff, brown and gray to gray SILTY CLAY, trace gravel; damp			2	9 5 6	2.30 B	13									
		--RDR 2--	5														
		--gray--			3	9 8 5	2.46 B	13									
					4	4 4 7	2.95 B	12									
		--gravel in driving shoe--	10														
					5	6 8 8	2.21 B	13									
	800.3	Medium dense, brown SANDY GRAVEL; saturated			6	5 9 10	NP	15									
		--RDR 2--	15														
	798.5	Medium dense, brown coarse SAND, little gravel; saturated			7	10 14 9	NP	14									
		--RDR 2--															
	796.0	Dense, brown SANDY GRAVEL; saturated			8	26 23 16	NP	8									
		--RDR 2 to 3--															
	794.0	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME55 TMR [85%]**
 Driller **K&T** Logger **M. Sadowski** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **13.75 ft**
 At Completion of Drilling ∇ **11.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B7-NAW-13

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 808.45 ft
 North: 1950848.93 ft
 East: 993293.54 ft
 Station: 331+15.71
 Offset: 47.146 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		18-inch thick CONCRETE --PAVEMENT--															
	807.0																
	806.0	Medium dense, gray SANDY GRAVEL; damp to moist --brick fragments--			1	11 12 11	NP	9									
	805.5	--FILL-- Hard, gray SILTY CLAY LOAM, little gravel; damp --FILL--			2	12 7 9	3.44 B	14									
		Stiff to very stiff, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2--			3	6 10 9	1.64 B	14									
		--gray--			4	3 4 8	3.53 B	15									
					5	4 6 7	2.21 B	14									
	796.0																
		Medium dense, brown SANDY GRAVEL; saturated --RDR 2--			6	7 9 7	NP	11									
	793.5																
		Dense, brown medium SAND, little gravel; saturated --RDR 2--			7	9 13 22	NP	16									
	791.0																
		Dense, brown SANDY GRAVEL; saturated --RDR 2--			8	11 25 7	NP	9									
	788.5																
		Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME55 TMR [85%]**
 Driller **K&T** Logger **M. Sadowski** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **12.50 ft**
 At Completion of Drilling ∇ **12.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG B7-NAW-14

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 802.73 ft
 North: 1950842.25 ft
 East: 993490.44 ft
 Station: 333+12.80
 Offset: 44.618 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		16-inch thick CONCRETE --PAVEMENT--															
	801.4																
	800.5	Medium dense, gray SANDY GRAVEL; damp			1	10 8 9	NP	8									
	799.7	Very stiff, brown and gray SILTY CLAY, little gravel; damp															
	799.0	Black ASPHALT			2	9 6 5	1.39 B	15									
		Stiff to very stiff, brown to brown and gray SILTY CLAY, trace to little gravel; damp															
					3	5 6 5	2.62 B	15									
	794.7	Stiff to hard, brown and gray to gray SILTY CLAY LOAM, trace to little gravel; damp			4	5 7 6	1.75 P	14									
					5	5 4 6	4.50 P	13									
	788.7	--wet split spoon--			6	5 8 4	1.80 B	12									
	787.7	Medium dense, brown and gray GRAVEL; saturated			7	4 5 6	NP	6									
		Stiff, gray SILTY CLAY LOAM, trace gravel; damp															
		Medium dense, brown and gray GRAVEL; saturated															
	784.7	Medium dense, brown and gray medium SAND, some gravel; saturated			8	6 8 9	NP	14									
	782.7	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **02-28-2022** Complete Drilling **02-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME55 TMR [85%]**
 Driller **K&T** Logger **M. Sadowski** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **14.00 ft**
 At Completion of Drilling ∇ **3.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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BORING LOG B7-NAW-15

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 793.73 ft
 North: 1950853.14 ft
 East: 993705.67 ft
 Station: 335+26.18
 Offset: 60.828 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick TOPSOIL															
	792.7	Stiff to hard, black and brown to gray SILTY CLAY, trace gravel; moist			1	4 5 6	1.07 B	18									
		--RDR 2--															
			5		2	8 7 8	1.00 P	19									
					3	9 12 12	6.56 B	14									
			10		4	6 9 11	3.85 B	15									
					5	9 10 13	5.74 B	14									
	779.7	Medium dense, gray SILT, trace gravel; damp			6	8 10 12	NP	19									
		--RDR 2--	15														
	778.2	Very stiff, gray SILTY CLAY, trace gravel; moist			7	7 10 9	3.77 B	18									
		--RDR 2--															
		--silt seam--			8	7 7 10	3.53 B	18									
	773.7	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-09-2022** Complete Drilling **03-09-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **D50 ATV [88%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B7-NAW-16

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 789.01 ft
 North: 1950844.55 ft
 East: 993903.32 ft
 Station: 337+24.24
 Offset: 58.709 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	788.0	12-inch thick TOPSOIL									gravel; damp						
		Very stiff to hard, brown SILTY CLAY, trace gravel; moist --RDR 2--			1	5 5 7	2.13 B	15			--RDR 2--						
			5		2	5 7 9	2.87 B	15			Boring terminated at 20.00 ft	25					
					3	9 10 10	3.28 B	13									
	779.8	Medium dense, brown, fine to medium SAND, trace to little	10		4	5 11 13	4.26 B	19				30					
	778.5	gravel; damp --RDR 2--			5	5 7 10	NP	9									
		Medium dense, brown, coarse SAND, trace to some gravel; damp to wet --RDR 2--			6	14 8 7	NP	7				35					
			15		7	10 11 10	NP	7									
	769.8	Hard, brown SILTY CLAY, trace	20		8	13 7 10	5.08 B	20				40					
	769.0																

GENERAL NOTES

Begin Drilling **03-09-2022** Complete Drilling **03-09-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **D50 ATV [88%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B7-NAW-17

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 783.49 ft
 North: 1950831.57 ft
 East: 994111.27 ft
 Station: 339+32.43
 Offset: 50.197 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick TOPSOIL															
	782.5	Stiff to very stiff, black and brown to black SILTY CLAY, trace gravel; moist --RDR 2--			1	4 4 5	1.48 B	16									
			5		2	6 6 7	2.00 P	17									
	777.3	Medium dense, brown, coarse SAND, trace to little gravel; damp --RDR 2--			3	6 9 10	NP	6									
			10		4	7 13 13	NP	5									
					5	5 9 10	NP	7									
			15		6	8 10 14	NP	5									
					7	18 24 18	NP	5									
					8	11 23 20	NP	6									
	763.5	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-09-2022** Complete Drilling **03-09-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **D50 ATV [88%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B7-NAW-18

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 779.88 ft
 North: 1950826.43 ft
 East: 994299.58 ft
 Station: 341+20.80
 Offset: 49.114 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick TOPSOIL															
	778.9	Stiff to hard, gray SILTY CLAY, trace to some gravel; damp to moist			1	5 6 9	3.85 B	13									
		--RDR 2--															
		--silt seam--			2	6 8 10	4.18 B	16									
			5														
					3	5 8 10	3.61 B	13									
					4	4 5 7	1.56 B	14									
			10														
					5	5 7 11	3.12 B	11									
					6	6 7 9	2.30 B	10									
			15														
					7	6 6 9	1.39 B	12									
					8	4 16 18	2.50 P	9									
		--little to some gravel--															
	759.9		20														
		Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **03-09-2022** Complete Drilling **03-09-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **D50 ATV [88%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B7-NAW-19

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 777.56 ft
 North: 1950822.50 ft
 East: 994489.78 ft
 Station: 343+12.43
 Offset: 45.973 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick TOPSOIL															
	776.6	Medium stiff, gray SILTY CLAY, trace gravel; damp to moist --RDR 2--			1	3 4 10	0.98 B	11									
	774.6	Very stiff, gray SILTY CLAY, trace gravel; moist --RDR 2--			2	5 6 8	2.79 B	17									
			5														
					3	7 7 10	2.46 B	17									
					4	5 7 8	2.13 B	18									
			10														
					5	4 6 8	2.30 B	17									
					6	4 6 9	2.13 B	16									
			15														
					7	6 6 10	2.21 B	15									
					8	6 6 10	2.46 B	18									
	757.6		20														

Boring terminated at 20.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-09-2022** Complete Drilling **03-09-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **D50 ATV [88%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG B7-NAW-20

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 776.68 ft
 North: 1950814.36 ft
 East: 994695.81 ft
 Station: 345+17.20
 Offset: 45.558 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick TOPSOIL															
	775.7	Soft, black and gray SILTY CLAY, trace gravel; moist --RDR 2--			1	2 3 4	0.41 B	18									
	773.7	Stiff to hard, gray SILTY CLAY, trace gravel; moist --RDR 2--			2	4 7 9	4.35 B	16									
					3	6 7 10	4.35 B	16									
					4	6 7 10	1.80 B	15									
					5	5 7 10	2.46 B	17									
					6	5 6 10	2.21 B	17									
					7	6 7 10	2.05 B	18									
					8	3 6 9	2.46 B	17									
	756.7	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-09-2022** Complete Drilling **03-09-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **D50 ATV [88%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG B7-NAW-21

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 775.02 ft
 North: 1950824.49 ft
 East: 994883.27 ft
 Station: 347+04.40
 Offset: 59.718 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	774.0	12-inch thick black SANDY LOAM															
		--TOPSOIL--															
		Very stiff to hard, brown and gray to gray SILTY CLAY, trace to little gravel; damp to moist			1	4 5 6	2.50 P	14									
		--RDR 2--															
		--gray--			2	8 9 17	6.40 B	13									
			5														
					3	14 17 18	4.50 P	14									
					4	8 10 13	4.10 B	15									
			10														
					5	6 7 13	2.79 B	16									
					6	6 8 9		16									
			15														
					7	5 7 10	1.07 B	16									
					8	4 7 10	1.97 B	18									
			20														
	755.0	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **03-08-2022** Complete Drilling **03-08-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



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BORING LOG B7-NAW-22

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 768.14 ft
 North: 1950822.12 ft
 East: 995088.78 ft
 Station: 349+09.91
 Offset: 61.773 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick TOPSOIL															
	767.1	Stiff, black and brown to brown SILTY CLAY, trace gravel; moist --RDR 2--			1	3 4 5	1.00 B	32									
			5		2	4 4 5	1.56 B	29									
	761.8	Loose, brown SANDY LOAM to SILTY CLAY LOAM, some gravel; wet			3	3 3 5	NP	34									
	760.4	Very stiff, brown to gray SILTY CLAY, trace gravel; moist --RDR 2--			4	4 6 9	2.79 B	20									
			10		5	10 11 14	2.05 B	20									
			15		6	7 9 15	2.21 B	13									
					7	9 9 13	3.20 B	15									
					8	6 7 11	3.20 B	13									
	748.1	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-08-2022** Complete Drilling **03-08-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **13.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B7-NAW-23

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 768.00 ft
 North: 1950815.08 ft
 East: 995288.84 ft
 Station: 351+10.08
 Offset: 59.028 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	767.0	12-inch thick black SANDY LOAM															
	766.0	--TOPSOIL-- Stiff, black SILTY CLAY, trace gravel; moist			1	4 7 27	1.48 B	21									
		--RDR 2-- Dense, brown medium to coarse SAND, little to some gravel; damp			2	18 20 17	NP	5									
		--RDR 2 to 3--	5														
					3	12 23 16	NP	3									
	760.0	Medium dense, brown medium to coarse SAND, trace to little gravel; damp to moist			4	9 9 7	NP	3									
		--RDR 2--	10														
					5	7 9 7	NP	8									
	755.0	Stiff to very stiff, gray SILTY CLAY, trace gravel; moist			6	6 8 10	2.21 B	17									
		--RDR 2--	15														
		--wet spoon--			7	6 7 10	2.30 B	18									
					8	5 9 11	1.23 B	18									
	748.0	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-08-2022** Complete Drilling **03-08-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B7-NAW-24

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 767.38 ft
 North: 1950810.48 ft
 East: 995490.80 ft
 Station: 353+12.09
 Offset: 58.774 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick TOPSOIL															
	766.4	Very stiff, black and brown SILTY CLAY, trace organic matter, trace gravel; damp --RDR 2--			1	5 5 5	3.53 B	35									
	763.6	Dense to very dense fine to coarse SAND, trace to some gravel; damp --RDR 2--			2	12 17 15	3.00 P	20									
		--fine to medium grained--			3	9 14 20	NP	7									
		--medium to coarse grained--			4	17 19 18	NP	3									
		--medium grained--			5	18 27 26	NP	5									
	754.4	Medium dense, brown coarse SAND, some gravel; saturated --RDR 2--			6	12 14 13	NP	9									
	752.1	Very stiff to hard, gray SILTY CLAY, trace gravel; damp to moist --RDR 2--			7	9 10 13	3.85 B	14									
	747.4	Boring terminated at 20.00 ft			8	6 9 12	4.10 B	14									

GENERAL NOTES

Begin Drilling **03-08-2022** Complete Drilling **03-08-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **13.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 766.39 ft
 North: 1950805.75 ft
 East: 995697.96 ft
 Station: 355+19.30
 Offset: 58.503 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick TOPSOIL								745.9	Very stiff, gray SILTY CLAY, trace gravel; moist						
	765.4	Stiff, black organic SILTY CLAY, trace gravel; moist			1	9 14 12	1.50 P	38			--RDR 2--			9	10 11 12	2.71 B	15
	765.0	Medium dense, gray to brown fine to medium SAND, little to some gravel; damp			2	10 10 11	NP	4		743.9	Boring terminated at 22.50 ft						
		--RDR 2-- --medium grained--	5		3	12 12 15	NP	3									
					4	11 11 11	NP	3									
			10		5	15 28 19	NR										
					6	15 13	NP	4									
	751.4	Stiff, gray SILTY CLAY, trace gravel; moist	15		7	6 7 9	1.72 B	16									
		--RDR 2--			8	4 4 4	NP	20									
	748.4	Loose, brown SILT, trace gravel; moist															
		--2.5-in silty clay layer-- --RDR 2--	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-08-2022** Complete Drilling **03-08-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



BORING LOG B7-NAW-26

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 763.87 ft
 North: 1950802.06 ft
 East: 995892.92 ft
 Station: 357+14.30
 Offset: 59 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick TOPSOIL															
	762.9	Stiff, black and brown SILTY CLAY, some gravel; moist --RDR 2--			1	20 18 18	1.00 P	6									
	761.1	Medium dense, brown and gray medium to coarse SAND, some gravel; damp --RDR 2--			2	10 12 13	NP	3									
			5														
					3	11 13 14	NP	2									
					4	13 14 15	NP	3									
			10														
					5	12 15 13	NP	2									
					6	13	NP	3									
	750.9	Very dense, brown fine to medium SAND, little gravel; damp --RDR 2--			6	13	NP	3									
			15			50/5"											
	748.6	Very stiff to hard, gray SILTY CLAY, trace gravel; damp --RDR 2--			7	10 11 15	5.08 B	9									
					8	10 13 15	2.54 B	12									
	743.9	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-08-2022** Complete Drilling **03-08-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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

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BORING LOG B7-NAW-27

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 758.31 ft
 North: 1950799.58 ft
 East: 996091.92 ft
 Station: 359+13.30
 Offset: 60.802 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick TOPSOIL															
	757.3	Stiff, black and brown SILTY CLAY, trace gravel; moist --FILL-- --RDR 2--			1	3 4 5	1.64 B	25									
	755.3	Medium stiff, black SILTY CLAY, trace gravel; moist --FILL-- --RDR 2--			2	3 2 2	0.50 P	27									
	752.8	Very stiff, black SILTY CLAY, trace gravel; moist --brick fragments-- --FILL-- --RDR 2--			3	3 4 10	2.50 P	24									
	750.6	Medium dense, black SANDY LOAM, little gravel; moist --RDR 2--			4	11 11 12	NP	7									
	748.1	Medium dense, gray SAND and gravel; damp --RDR 2 to 3--			5	11 9 14	NP	8									
	745.8	Medium dense, brown SANDY GRAVEL; wet --RDR 2 to 3-- --2-in silty clay--			6	9 9 9	NP	11									
	742.8	Stiff to very stiff, gray SILTY CLAY, trace gravel; moist --RDR 2--			7	10 11 13	3.36 B	12									
	738.3	Boring terminated at 20.00 ft			8	7 9 10	1.64 B	12									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-07-2022** Complete Drilling **03-07-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



BORING LOG B7-NAW-28

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 761.12 ft
 North: 1950789.95 ft
 East: 996291.42 ft
 Station: 361+12.97
 Offset: 55.46 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick TOPSOIL															
	760.1	Medium stiff, black and brown SILTY CLAY, trace gravel; moist --RDR 2--			1	2 3 6	0.66 B	26									
	758.4	Medium dense, gray SAND and gravel; damp --RDR 2--			2	8 10 14	NP	6									
	755.9	Stiff, brown SILTY CLAY and gravel; moist --RDR 3--			3	10 17 18	1.50 P	13									
	754.5	Dense to very dense, brown to gray fine SAND, some gravel; damp --RDR 2--			4	37 26 50/6"	NP	3									
	750.1	Very stiff to hard, brown, pink to gray SILTY CLAY, trace gravel; damp to moist --RDR 2 to 3--			5	8 8 9	NR	14									
					6	5 8 14	4.84 B	17									
					7	7 11 16	4.76 B	18									
					8	7 8 11	3.03 B	16									
	741.1	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-07-2022** Complete Drilling **03-07-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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

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BORING LOG B7-NAW-29

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 759.74 ft
 North: 1950787.34 ft
 East: 996476.78 ft
 Station: 362+98.34
 Offset: 56.84 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	759.3	5-inch thick TOPSOIL															
	758.4	Brown and gray SANDY LOAM; moist															
	756.7	Medium dense, brown and gray SAND and gravel; damp			1	6 8 11	NP	8									
	755.9	Medium dense, gray GRAVEL; dry to damp			2	8 5 6	4.50 P	16									
	753.4	Stiff to hard, gray SILTY CLAY, trace gravel; moist			5												
	753.4	Medium dense, brown fine to coarse SAND, trace to some gravel; damp			3	5 8 10	NP	6									
		--medium to coarse grained--			4	9 9 9	NP	5									
	749.5	Dense to very dense, brown to black SAND and gravel; damp			5	28 50/6"	NP	5									
	745.7	--medium grained--			6	10 17 13	NP	5									
	745.7	Very stiff, brown SILTY CLAY, trace gravel; moist			15												
		--gray cobble fragments layer--			7	17 21 29	NP										
	739.7	Boring terminated at 20.00 ft			8	11 12 15	2.38 B	11									

GENERAL NOTES

Begin Drilling **03-07-2022** Complete Drilling **03-07-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B7-NAW-30

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 759.14 ft
 North: 1950771.43 ft
 East: 996696.98 ft
 Station: 365+18.83
 Offset: 45.67 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	758.0	13-inch thick, black SANDY LOAM															
		--TOPSOIL--															
		Medium stiff, black SILTY CLAY, trace gravel; moist			1	2 3 2	0.50 P	19									
		--RDR 2--															
		Boring terminated at 2.50 ft															

GENERAL NOTES

Begin Drilling **04-04-2022** Complete Drilling **04-04-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **PH&AG** Logger **A. Scifers** Checked by **JAB**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B7-NAW-30B

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 759.14 ft
 North: 1950771.38 ft
 East: 996697.91 ft
 Station: 365+19.76
 Offset: 45.64 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	758.5	8-inch thick ASPHALT --PAVEMENT--									gravel; damp --RDR 2--						
		Medium stiff to very stiff, gray to black SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp to moist			1	6 3 2	2.00 P	21			Boring terminated at 20.00 ft						
		--FILL-- --RDR 2-- --trace glass fragments--			2	4 4 6	2.50 P	24									
			5														
					3	3 3 3	0.50 P	26									
	751.1	Stiff, greenish gray SILTY CLAY, trace gravel; damp			4	4 3 5	1.89 B	27									
		--RDR 2--	10														
	748.6	Hard, brown SILTY CLAY, trace gravel; damp			5	4 8 13	7.38 B	16									
		--RDR 2--															
			15		6	5 10 29	4.50 P	15									
	743.6	Dense, white GRAVEL; damp			7	12 20 25	NP										
		--RDR 2--															
	741.1	Brown, fine SAND, trace gravel; damp			8	5 14 31	4.50 P	11									
	740.2	Hard, brown SILTY CLAY to SILTY CLAY LOAM, trace															
	739.1		20														

GENERAL NOTES

Begin Drilling **04-19-2022** Complete Drilling **04-19-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoT[92%]**
 Driller **AG&CB** Logger **M. Rojo** Checked by **JAB**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG B7-NAW-31

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 758.43 ft
 North: 1950778.35 ft
 East: 996894.89 ft
 Station: 367+15.13
 Offset: 58.24 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	757.9	7-inch thick, black SILTY CLAY --TOPSOIL--															
	756.9	Hard, brown and gray SILTY CLAY, trace gravel; damp			1	6 6 9	4.50 P	14									
		Medium dense to dense, brown, fine to coarse SAND, trace to little gravel; damp --RDR 2-3--			2	15 12 11	NP	4									
					3	7 12 15	NP	4									
					4	10 17 22	NP	3									
					5	15 14 17	NP	4									
	745.4	Very stiff, gray SILTY CLAY, trace gravel; damp --RDR 2--			6	6 8 14	3.85 B	17									
	741.8	Medium dense to dense, brown, fine to medium SAND, trace gravel; damp --RDR 2--			7	10 14 14	NP	4									
	738.4	Boring terminated at 20.00 ft			8	6 14 19	NP	8									

GENERAL NOTES

Begin Drilling **03-10-2022** Complete Drilling **03-10-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **JAB**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



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BORING LOG B7-NAW-31B

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 758.50 ft
 North: 1950780.43 ft
 East: 996882.48 ft
 Station: 367+02.80
 Offset: 59.75 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	758.15	15-inch thick, black and brown SILTY CLAY --TOPSOIL-- Stiff, brown SILTY CLAY, trace gravel; damp --RDR 2--			1	1 4 6	1.50 P	24									
	755.5	Medium dense, brown, fine to medium SAND, trace gravel; damp --RDR 2--	5		2	6 8 13	NP	8									
	753.0	Medium dense, brown GRAVELLY SAND; damp --RDR 2--			3	7 10 11	NP	4									
	750.5	Medium dense, brown, fine to medium SAND, trace gravel; damp --RDR 2--	10		4	9 13 14	NP	4									
	748.0	Dense, brown GRAVELLY SAND; damp --RDR 2--			5	9 18 15	NP	4									
	745.5	Hard, brown SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp	15		6	11 13 10	4.50 P	17									
	740.5	Medium dense, brown, fine SAND, trace gravel; damp --RDR 2--			7	10 14 17	6.91 B	19									
	738.5	Boring terminated at 20.00 ft	20		8	7 12 15	NP	5									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-19-2022** Complete Drilling **04-19-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoT[92%]**
 Driller **AG&CB** Logger **M. Rojo** Checked by **JAB**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

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

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

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BORING LOG B7-NAW-32

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 755.53 ft
 North: 1950766.03 ft
 East: 997098.81 ft
 Station: 369+16.85
 Offset: 59.76 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	755.0	6-inch thick organic SILTY CLAY LOAM --TOPSOIL-- Very stiff, brown SILTY CLAY; damp --RDR 2--			1	2 4 5	2.05 B	26									
	752.5	Medium dense, brown SANDY GRAVEL; damp --RDR 2--	5		2	5 6 9	NP	7									
	750.0	Dense, brown SANDY GRAVEL; dry --RDR 2 to 3--			3	9 26 25	NP	5									
	747.5	Medium dense, brown SANDY GRAVEL; damp to dry --RDR 3--	10		4	8 9 11	NP	5									
	745.0	Hard, brown SILTY CLAY; damp --RDR 2--			5	5 9 15	8.53 B	17									
	741.0	Dense, brown coarse SAND, some gravel; dry --RDR 2--	15		6	5 11 21	5.58 B	18									
	739.8	Medium dense, brown coarse SAND, trace to little gravel; damp --RDR 2--			7	6 8 7	NP	4									
	735.5	Boring terminated at 20.00 ft	20		8	6 7 7	NP	3									

GENERAL NOTES

Begin Drilling **03-07-2022** Complete Drilling **03-07-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&CB** Logger **M. Sadowski** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B7-NAW-33

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 752.94 ft
 North: 1950758.97 ft
 East: 997298.50 ft
 Station: 371+12.65
 Offset: 72.46 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	752.4	6-inch thick organic SILTY CLAY LOAM --TOPSOIL-- Stiff, brown SILTY CLAY; damp --RDR 2--			1	2 1 2	1.25 P	28									
			5		2	3 3 4	1.80 B	27									
	747.4	Medium dense, brown SANDY GRAVEL; damp --RDR 2 to 3--			3	3 4 8	NP	8									
			10		4	7 8 9	NP	8									
					5	6 9 16	NP	5									
	739.9	Dense, brown SANDY GRAVEL; damp --RDR 2--			6	17 17 16	NP	5									
	737.4	Medium dense, brown SANDY GRAVEL; damp --RDR 2--			7	12 8 14	NP	5									
	734.9	Dense, brown SANDY GRAVEL; damp --RDR 2 to 3--			8	9 13 19	NP	4									
	732.9	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **03-07-2022** Complete Drilling **03-07-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&CB** Logger **M. Sadowski** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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

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BORING LOG B7-NAW-34

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 756.66 ft
 North: 1950751.31 ft
 East: 997636.18 ft
 Station: 374+41.15
 Offset: 120.69 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	756.2	6-inch thick organic SILTY CLAY LOAM --TOPSOIL-- Very stiff, brown SILTY CLAY; damp --RDR 2--			1	2 3 3	2.05 B	25									
			5		2	2 2 4	2.13 B	25									
	751.2	Medium dense, brown SANDY GRAVEL; dry to damp --RDR 2 to 3--			3	6 7 8	NP	5									
			10		4	7 7 8	NP	3									
					5	4 5 6	NP	4									
			15		6	8 9 11	NP	5									
					7	11 15 18	NP	3									
					8	10 11 12	NP	3									
	736.7	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-07-2022** Complete Drilling **03-07-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&CB** Logger **M. Sadowski** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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BORING LOG B7-NAW-35

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 756.87 ft
 North: 1950747.09 ft
 East: 997729.82 ft
 Station: 375+33.28
 Offset: 137.21 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	756.5	5-inch thick organic SILTY CLAY LOAM															
	755.6	--TOPSOIL-- Stiff, brown SILTY CLAY LOAM, little gravel; damp			1	4 5 3	NP	8									
	753.9	Loose, brown coarse SAND and gravel; damp			2	3 3 2	NP	9									
	751.4	Very loose, brown SANDY GRAVEL; damp			3	3 2 1	0.50 P	14									
	750.4	Medium stiff, brown to gray CLAY LOAM, some gravel; moist			4	2 3 5	NP	5									
	748.9	Loose to medium dense, brown SANDY GRAVEL; damp			5	8 9 10	NP	3									
					6	9 10 9	NP	4									
					7	6 8 9	NP	4									
					8	6 7 20	NP	3									
	736.9	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-07-2022** Complete Drilling **03-07-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&CB** Logger **M. Sadowski** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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BORING LOG B7-NAW-36

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 756.63 ft
 North: 1950912.36 ft
 East: 997798.69 ft
 Station: 375+61.73
 Offset: 312.15 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	756.1	6-inch thick black organic TOPSOIL															
		Stiff to hard (4.25P), black and brown SILTY CLAY, little gravel; damp --trace to little organic matter-- --FILL-- --RDR 2--	1	X	1	1 2 5	1.25 P	21									
			2	X	2	2 4 4	3.00 P	21									
	750.4	Dense, brown Gravelly SAND; dry --RDR 2--	3	X	3	7 15 15	NP	3									
	748.6	Medium dense, brown Gravelly SAND; dry --RDR 2--	4	X	4	5 8 11	NP	2									
	746.1	Medium dense, brown medium to coarse SAND, little to some gravel; dry to damp --RDR 2--	5	X	5	5 7 8	NP	3									
			6	X	6	7 8 8	NP	3									
	741.1	Medium dense, brown Gravelly SAND; damp --RDR 2--	7	X	7	7 8 8	NP	2									
			8	X	8	7 6 7	NP	2									
	736.6	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-07-2022** Complete Drilling **03-07-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&CB** Logger **M. Sadowski** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



BORING LOG B9-2-NAW-01

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 730.26 ft
 North: 1950250.17 ft
 East: 998959.33 ft
 Station: 1388+33.54
 Offset: 46.03 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	730.03	3-inch thick ASPHALT --PAVEMENT--															
	729.2	10-inch thick CONCRETE --PAVEMENT--															
	729.0	Gray and white SANDY GRAVEL; damp --AGGREGATE BASE--			1	12 13 8	NP	6									
		Medium dense, brown Gravelly SAND; damp --FILL-- --RDR 2--			2	50/2"	NR										
	725.3	Very stiff, gray SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			3	17 9 9	3.00 P	20									
	722.3	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace to little gravel; damp --FILL-- --RDR 2--			4	12 5 16	2.25 P	14									
	719.8	Very dense, brown and gray SANDY GRAVEL; damp --concrete fragments-- --FILL-- --RDR 2--			5	6 30 2	NP	6									
	717.3	Very stiff, brown SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			6	7 6 5	2.50 P	14									
	714.8	Very dense, brown and gray SANDY GRAVEL; damp --FILL-- --RDR 2 to 3--			7	9 10 45	NP	3									
	712.3	Very dense, brown and gray GRAVEL --2-in cobble in split spoon-- --RDR 2--			8	24 39 35	NP										
	710.3	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **03-04-2022** Complete Drilling **03-04-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KG&TC** Logger **M. Rojo** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG B9-2-NAW-02

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 733.43 ft
 North: 1950195.11 ft
 East: 999135.69 ft
 Station: 1390+19.06
 Offset: 51.73 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	733.2	3-inch thick ASPHALT --PAVEMENT--									--RDR 2--						
	732.4	10-inch thick CONCRETE --PAVEMENT--									Boring terminated at 20.00 ft						
	732.1	Gray and white SANDY GRAVEL; damp --AGGREGATE BASE--			1	13 23 17	NP	4									
		Dense to very dense, brown SANDY GRAVEL; damp --FILL-- --RDR 2 to 3--			2	52/4"	NP	6									
			5									25					
					3	52/2"	NR										
	725.9	Medium dense, brown Gravelly SAND; damp --FILL-- --RDR 2--			4	53 16 13	NP	6									
			10														
	722.9	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			5	25 9 5	2.00 P	14									
					6	11 13 16	2.00 P	11									
	720.4	Very stiff, brown and gray SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			7	4 5 6	NP										
					8	3 3 11	1.50 P	13									
	717.9	Medium dense, gray and white GRAVEL --cobble in split spoon-- --FILL-- --RDR 2--			8												
	715.4	Stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace to little gravel; damp --FILL--			20												
	713.4																

GENERAL NOTES

Begin Drilling **03-04-2022** Complete Drilling **03-04-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KG&TC** Logger **M. Rojo** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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

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BORING LOG B9-2-NAW-03/SGB-21

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 737.94 ft
 North: 1950135.80 ft
 East: 999325.90 ft
 Station: 1392+20.59
 Offset: 50.88 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	737.82	2-inch thick ASPHALT --PAVEMENT--															
	736.9	10-inch thick CONCRETE --PAVEMENT--				6											
	734.9	Gray and white SANDY GRAVEL; damp --AGGREGATE BASE--			1	8 12 17	NP	8									
	732.9	Medium dense, brown Gravelly SAND; damp --FILL-- --RDR 2--			2	11 15 20	NP	6									
	730.9	Dense, gray and white Gravelly SAND; damp --FILL-- --RDR 2--			3	18 15 17 40	2.50 P	11									
	730.9	Very stiff, brown and gray SILTY CLAY LOAM to LOAM, trace gravel; damp --FILL-- --RDR 2--			4	10 28 33 24	NP	4									
	726.9	Dense to very dense, brown and gray SANDY GRAVEL; damp --FILL-- --RDR 2--			5	26 25 22 19	NP	3									
	724.9	Dense, brown fine to medium SAND; damp --FILL-- --RDR 2--			6	10 18 12	NP	4									
	724.9	Stiff to very stiff, brown and gray to black and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			7	10 7 6	3.50 P	23									
		--wood fragments--			8	10 9 5	1.50 P	15									
	717.9	Boring terminated at 20.00 ft	20		9	8 17 16	2.00 P	16									

GENERAL NOTES

Begin Drilling **03-04-2022** Complete Drilling **03-04-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KG&TC** Logger **M. Rojo** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B9-2-NAW-04

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 743.46 ft
 North: 1950090.47 ft
 East: 999506.03 ft
 Station: 1394+08.48
 Offset: 52.50 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	743.23	2.3-inch thick ASPHALT --PAVEMENT--															
	742.4	10-inch thick CONCRETE --PAVEMENT--															
	742.2	Gray and white SANDY GRAVEL; damp --AGGREGATE BASE--			1	5 3 5	3.50 P	10									
	740.5	Very stiff, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			2	9 14 11	NP	10									
	738.0	Medium dense, brown Gravelly SAND; damp --FILL-- --RDR 2--			3	4 8 10	1.00 P	17									
	735.5	Stiff, brown and gray SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			4	7 24 22	NP	4									
	733.0	Dense, brown Gravelly SAND; damp --FILL-- --RDR 2--			5	6 13 11	1.00 P	13									
	731.7	Medium dense, brown Gravelly SAND; damp --FILL-- --RDR 2--			6	6 19 16	NP										
	730.5	Dense, gray and white GRAVEL --1 to 2-in cobble fragment-- --RDR 2 to 3--			7	5 5 8	2.00 P	18									
	728.0	Stiff to very stiff, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			8	7 10 11	1.50 P	17									
	723.5	--wood fragments--															
		Boring terminated at 20.00 ft															

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-04-2022** Complete Drilling **03-04-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KG&TC** Logger **M. Rojo** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



BORING LOG B9-3-NAW-02

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 759.07 ft
 North: 1949971.16 ft
 East: 1000444.74 ft
 Station: 1403+67.82
 Offset: 55.22 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	758.8	3-inch thick ASPHALT --PAVEMENT--															
	758.1	9-inch thick CONCRETE --PAVEMENT--															
	757.9	Gray and white SANDY GRAVEL; damp --AGGREGATE BASE--			1	4 6 6	4.50 P	15									
	756.1	Hard, brown SILTY CLAY LOAM to LOAM, trace gravel; damp --FILL--			2	10 16 9	NP	8									
	753.6	Medium dense, brown Gravelly SAND to LOAM; damp --FILL-- --RDR 2--			3	3 5 6	NP	19									
	751.1	Medium dense, brown LOAM to SILTY CLAY LOAM; damp --FILL-- --RDR 2--			4	4 5 4	3.00 P	23									
		Very stiff to hard, brown SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2--			5	6 7 8	4.25 P	23									
					6	6 7 11	2.50 P	15									
					7	7 11 15	4.50 P	16									
					8	8 11 6	4.59 B	16									
	739.1	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **03-03-2022** Complete Drilling **03-03-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **KG&TC** Logger **M. Rojo** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG B9-3-NAW-03

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 758.78 ft
 North: 1949976.25 ft
 East: 1000639.53 ft
 Station: 1405+65.13
 Offset: 60.75 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	758.5	3-inch thick ASPHALT --PAVEMENT--															
	757.8	9-inch thick CONCRETE --PAVEMENT--															
	755.8	Gray and white SANDY GRAVEL; damp --AGGREGATE BASE--			1	2 2 3	2.50 P	13									
	753.3	Very stiff, brown SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp --FILL-- --RDR 2--			2	4 5 3	1.00 P	17									
	750.8	Stiff, brown SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			3	6 9 8	NP										
	750.8	Medium dense, gray and white GRAVEL; damp --concrete fragments-- --RDR 2--			4	4 5 5	2.87 B	17									
		Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			5	5 13 10	4.00 P	16									
					6	8 21 11	2.50 P	16									
					7	13 18 16	NR										
		--gray--			8	5 8 9	3.50 P	17									
	738.8	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **03-03-2022** Complete Drilling **03-03-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **KG&TC** Logger **M. Rojo** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B9-3-NAW-04

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 758.01 ft
 North: 1949998.29 ft
 East: 1000931.64 ft
 Station: 1408+60.67
 Offset: 68.78 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	757.5	6-inch thick, brown and black SILTY CLAY --TOPSOIL--			1	1 2 2	0.50 P	22									
		Medium stiff to hard, brown SILTY CLAY to SILTY CLAY LOAM, trace to little gravel; damp to moist --FILL-- --RDR 2--			2	2 3 4	2.00 P	43									
					3	7 5 4	4.50 P	41									
	750.0	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp --RDR 2--			4	4 5 12	4.59 B	29									
					5	4 6 9	3.44 B	38									
					6	4 6 10	2.50 P	39									
					7	6 7 10	4.02 B	27									
					8	4 7 8	3.00 P	29									
	738.0	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **04-14-2022** Complete Drilling **04-14-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoT[92%]**
 Driller **AG&CB** Logger **M. Rojo** Checked by **JAB**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B9-3-NAW-05

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 756.91 ft
 North: 1950002.26 ft
 East: 1001082.62 ft
 Station: 1410+11.60
 Offset: 63.45 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	756.7	2-inch thick ASPHALT --PAVEMENT--															
	756.2																
	755.6	7-inch thick CONCRETE --PAVEMENT--															
		Gray SANDY GRAVEL; damp --AGGREGATE BASE--			1	4 5 5	NP	12									
	753.9	Medium dense, brown SANDY GRAVEL; damp --FILL-- --RDR 2--			2	5 7 12	4.92	17									
		Stiff to hard, brown SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--	5														
					3	7 8 10	3.25 P	17									
					4	3 5 7	4.18 B	18									
	746.4	Stiff to very stiff, gray SILTY CLAY, trace gravel; damp --RDR 2--			5	4 4 5	2.05 B	18									
					6	3 4 5	2.21 B	20									
			15														
					7	3 4 7	2.62 B	22									
	738.9	Medium dense, brown fine SAND to SANDy LOAM; damp --RDR 2--			8	6 10 9	NP	10									
	736.9		20														
		Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-03-2022** Complete Drilling **03-03-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **KG&TC** Logger **M. Rojo** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG B9-3-NAW-06

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 758.93 ft
 North: 1950068.04 ft
 East: 1001307.84 ft
 Station: 1412+38.71
 Offset: 116.50 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	758.4	6-inch thick, black SILTY CLAY --TOPSOIL-- Very stiff to hard, brown SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			1	4 6 6	4.50 P	19									
			5		2	2 4 4	2.50 P	21									
	753.4	Very stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2--			3	4 5 7	4.10 B	15									
			10		4	4 6 8	NA	13									
					5	6 4 8	3.50 P	16									
			15		6	4 7 11	4.97 B	18									
					7	4 4 6	3.03 B	20									
					8	6 5 4	2.54 B	20									
	738.9		20														

Boring terminated at 20.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-19-2022** Complete Drilling **04-19-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoT[92%]**
 Driller **AG&CB** Logger **M. Rojo** Checked by **JAB**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

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

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



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BORING LOG B9-NAW-01

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 760.09 ft
 North: 1950708.22 ft
 East: 997904.58 ft
 Station: NA
 Offset: NA

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	759.83	3-inch thick, medium stiff (0.50P), dark brown SILTY CLAY LOAM; moist			1	PUSH	1.75	19									
	758.6	--TOPSOIL--															
		Stiff, brown SILTY CLAY to SILTY CLAY LOAM, trace gravel; moist			2	PUSH	1.25	23									
		--FILL--															
	756.1	Stiff, brown SILTY CLAY LOAM, trace gravel; moist															
		Brown, fine to coarse SAND, some gravel; moist	5		3	PUSH	NP	5									
	754.3	Brown GRAVELLY SAND; damp			4	PUSH	NP	4									
	752.2	Brown, fine to coarse SAND, some gravel; damp			5	PUSH	NP	5									
			10		6	PUSH	NP	5									
	748.1	Brown GRAVELLY SAND; damp			7	PUSH	NP	4									
					8	PUSH	NP	4									
	744.1	Boring terminated at 16.00 ft															

GENERAL NOTES

Begin Drilling **05-12-2022** Complete Drilling **05-12-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **KS&AP** Logger **D. You** Checked by **JAB**
 Drilling Method **1" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B9-NAW-02

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 749.61 ft
 North: 1950630.67 ft
 East: 998076.82 ft
 Station: 378+88.10
 Offset: 114.47 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	748.6	12-inch thick, brown SANDY LOAM															
	748.0	--TOPSOIL--															
	748.0	Medium stiff, black SILTY CLAY, trace gravel; moist			1	7 8 6	0.57 B	35									
	746.6	Medium dense, brown SANDY GRAVEL; damp															
	744.1	Hard, brown and gray SILTY CLAY, some gravel; damp --RDR 2--	5		2	6 10 11	4.00 P	12									
	734.1	Soft to medium stiff, brown SILTY CLAY, trace to little gravel; moist --RDR 2--			3	4 2 3	0.49 B	13									
					4	7 3 5	0.57 B	18									
					5	4 5 5	0.75 P	22									
					6	3 5 4	0.74 B	25									
	734.1	Medium dense, brown, medium to coarse SAND, trace gravel; damp --RDR 2--	15		7	6 7 6	NP	4									
	729.6	Boring terminated at 20.00 ft	20		8	5 7 11	NP										

GENERAL NOTES

Begin Drilling **03-10-2022** Complete Drilling **03-10-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **JAB**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B9-NAW-03

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 741.33 ft
 North: 1950562.36 ft
 East: 998247.88 ft
 Station: 1380+61.72
 Offset: 103.50 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	740.3	12-inch thick, black SANDY LOAM --TOPSOIL--															
		Medium stiff, brown SILTY CLAY, trace gravel; moist --RDR 2--			1	6 6 8	0.57 B	24									
	738.3	Medium dense to dense, brown, fine to medium SAND, trace to some gravel; damp to moist --RDR 2--			2	5 6 8	NP	13									
			5		3	15 18 16	NP	3									
					4	6 10 14	NP	3									
					5	9 11 15	NP	3									
					6	18 27 15	NP	3									
					7	18 20 19	NP	3									
					8	19 10 7	NP	3									
	721.3		20														

Boring terminated at 20.00 ft

GENERAL NOTES

Begin Drilling **03-10-2022** Complete Drilling **03-10-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **JAB**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG B9-NAW-04

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 735.50 ft
 North: 1950497.58 ft
 East: 998425.48 ft
 Station: 1382+50.00
 Offset: 101.23 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	734.5	12-inch thick, black SILTY CLAY															
	734.1	--TOPSOIL--															
		Stiff, black SILTY CLAY, trace gravel; moist			1	8 13 16	1.50 P	17									
		Medium dense to dense, brown and gray, fine to coarse SAND, trace to little gravel; damp			2	16 20 23	NP	4									
		--RDR 2-3--			3	22 21 26	NP	3									
					4	20 21 22	NP	3									
					5	10 17 29	NP	4									
					6	12 16 19	NP	4									
					7	7 13 11	NP	3									
					8	6 14 11	NP	3									
	715.5	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-10-2022** Complete Drilling **03-10-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **JAB**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B9-NAW-05

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 728.08 ft
 North: 1950414.11 ft
 East: 998603.83 ft
 Station: 1384+48.55
 Offset: 77.69 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	727.75	5-inch thick, black SILTY CLAY															
	727.1	--TOPSOIL--															
		Brown SILTY CLAY															
		Medium dense to very dense, brown, fine to medium SAND, trace to some gravel; damp			1	17 16 16	NP	9									
		--RDR 2-3--															
					2	24 30 25	NP	4									
			5														
					3	18 19 32	NP	2									
					4	13 15 13	NP	4									
			10														
	717.6	Dense, brown, fine to medium SAND, trace gravel; damp			5	6 15 20	NP	3									
		--RDR 2--															
	715.1	Dense to very dense, brown to gray, fine to coarse SAND, little to some gravel; damp			6	17 20 21	NP	3									
		--RDR 2-3--															
			15														
					7	15 34 23	NP	3									
	709.2	Gray SILTY CLAY; damp			8	21 26	NP	3									
	708.1		20			50/6"											
		Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **03-10-2022** Complete Drilling **03-10-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **JAB**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B9-NAW-06/SGB-19

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 727.92 ft
 North: 1950321.67 ft
 East: 998768.24 ft
 Station: 1386+29.56
 Offset: 50.33 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	727.73	7.3-inch thick ASPHALT --PAVEMENT--															
	727.0	7.8-inch thick CONCRETE --PAVEMENT--															
	726.78	Gray and white SANDY GRAVEL; damp --AGGREGATE BASE--			1	5 7 12 11	4.50 P	8									
		Very stiff to hard, brown to gray SILTY CLAY LOAM, trace to little gravel; damp			2	16 14 8 5	3.50 P	12									
	723.2	--FILL-- --RDR 2--			3	21 8 3 5	2.05 B	16									
		Very stiff, gray SILTY CLAY, trace gravel; damp			4	8 7 5 6	2.00 P	22									
	720.9	--FILL-- --RDR 2--			5	4 4 6 7	2.21 B	20									
		Very stiff, brown SILTY CLAY LOAM, trace gravel; damp			6	7 8 9	2.13 B	31									
	716.9	--FILL-- --RDR 2--			7	12 10 9	NP	8									
		Medium dense, brown Gravelly SAND; damp			8	11 6 7	NP	5									
	714.9	--FILL-- --RDR 2--			9	12 20 26	NP	2									
		Dense, brown Gravelly SAND; damp			10												
	709.9	--FILL-- --RDR 2--			11												
		Boring terminated at 20.00 ft			12												
	707.9				13												

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-04-2022** Complete Drilling **03-04-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KG&TC** Logger **M. Rojo** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG 45-0006-BSB-03

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 753.05 ft
 North: 1949926.96 ft
 East: 1001753.70 ft
 Station: 416+74.43
 Offset: 36.91 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	752.9	2-inch thick ASPHALT --PAVEMENT--								732.6	coarse SAND, trace gravel; damp						
	752.1										--FILL-- --RDR 2--						
	751.4	9-inch thick CONCRETE --PAVEMENT--									Very stiff, brown SILTY CLAY, little gravel; damp to moist			9	4 7 4	3.00 P	18
		9-inch thick SANDY GRAVEL --AGGREGATE BASE--			1	4 3 4	NA	20			--RDR 2--						
		Stiff to hard, brown SILTY CLAY LOAM to SILTY CLAY, trace gravel; damp															
		--FILL-- --RDR 2--			2	3 6 7	1.50 P	20		728.8	Loose, brown SILTY LOAM; moist			10	5 4 3	2.00 P	19
										727.6	--RDR 2--						
					3	2 2 1	1.00 P	19			Loose to medium dense, brown, fine to coarse SAND to SANDY LOAM, trace gravel; damp			11	4 3 5	NP	13
		--1-inch thick, sand seam; damp--									--RDR 2--						
					4	3 4 5	3.00 P	13						12	6 9 16	NP	4
					5	3 8 9	4.00 P	14		721.3	Medium dense to dense, brown, fine to coarse SAND, some gravel; damp to saturated						
											--RDR 2-3--						
					6	4 7 8	3.25 P	12						13	19 23 24	NP	4
					7	4 3 4	2.25 P	16			--rig chatter; possible cobbles--						
	733.8	Dense, black and brown, fine to			8	5 22 12	2.50 P	14						14	11 14 15	NP	10

GENERAL NOTES

Begin Drilling **10-18-2021** Complete Drilling **10-18-2021**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **RH&JD** Logger **E. Yim** Checked by **CLM (-Lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **38.50 ft**
 At Completion of Drilling ∇ **48.00 ft**
 Time After Drilling **24 hours**
 Depth to Water ∇ **40.50 ft**

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

WANGENG 1210301.GPJ WANGENG.GDT 9/12/22



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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 753.05 ft
 North: 1949926.96 ft
 East: 1001753.70 ft
 Station: 416+74.43
 Offset: 36.91 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	711.3																
		Very stiff to hard, gray SILTY CLAY LOAM, trace gravel; damp															
		--RDR 2--															
			45		15	7 11 14	4.51 B	13									
			50		16	7 11 15	3.77 B	13									
			55		17	8 11 11	3.44 B	12									
	693.1		60		18	6 10 12	3.53 B	13									
Boring terminated at 60.00 ft																	

GENERAL NOTES

Begin Drilling **10-18-2021** Complete Drilling **10-18-2021**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **RH&JD** Logger **E. Yim** Checked by **CLM (-Lab)**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **38.50 ft**
 At Completion of Drilling \blacktriangledown **48.00 ft**
 Time After Drilling **24 hours**
 Depth to Water ∇ **40.50 ft**

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



BORING LOG B10-NAW-01

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 739.01 ft
 North: 1949890.37 ft
 East: 1001583.37 ft
 Station: 1415+06.42
 Offset: 74.15 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	738.4	7-inch thick ASPHALT --PAVEMENT--															
	737.9	Brown SANDY GRAVEL; damp --AGGREGATE BASE--			1	2 3 3	1.50 P	21									
		Stiff to hard, brown SILTY CLAY to SILTY CLAY LOAM, trace to little gravel; damp --RDR 2--			2	4 5 7	5.25 B	18									
					3	4 5 8	2.95 B	18									
					4	4 6 21	4.84 B	16									
					5	18 18 14	3.50 P	11									
					6	6 6 6	2.50 P	19									
	722.8	Medium dense to dense, brown SANDY GRAVEL; damp --RDR 2-3--			7	8 18 12	NP	5									
					8	7 8 11	NP	7									
	719.0	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-22-2022** Complete Drilling **04-22-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **R&P** Logger **M. Sadowski** Checked by **JAB**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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

WANGENG\1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG B10-NAW-02

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 732.27 ft
 North: 1949892.05 ft
 East: 1001793.88 ft
 Station: 417+19.34
 Offset: 78.92 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	731.9	5-inch thick ASPHALT --PAVEMENT--															
	731.4	6-inch thick, brown SANDY GRAVEL --AGGREGATE BASE--			1	5 3 3	1.75 P	20			--sand heaving into augers--			9	11 12 14	NP	8
		Stiff to very stiff, brown SILTY CLAY LOAM to SILTY CLAY; damp --RDR 2--			2	4 5 6	2.62 B	20		709.3	--sand heaving into augers-- Very stiff, gray SILTY CLAY; damp --RDR 2--			10	7 5 5	3.94 B	13
			5							707.3	Boring terminated at 25.00 ft						
	725.8	Medium dense, brown SANDY GRAVEL; damp to saturated --RDR 2-3--			3	4 7 17	NP	6									
					4	10 11 12	NP	4									
			10		5	10 9 13	NP	6									
					6	7 10 11	NP	5									
			15		7	7 8 5	NP	8									
		--sand heaving into augers--			8	4 6 7	NP	7									
			20														

GENERAL NOTES

Begin Drilling **04-22-2022** Complete Drilling **04-22-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **R&P** Logger **M. Sadowski** Checked by **JAB**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG B10-NAW-03

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 730.29 ft
 North: 1949900.78 ft
 East: 1002020.86 ft
 Station: 419+42.64
 Offset: 70.28 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	729.6	8-inch thick ASPHALT --PAVEMENT--								709.8							
	729.0	Brown SANDY GRAVEL; damp --FILL--			1	6 5 4	0.75 P	11			Very stiff to hard, gray SILTY CLAY, trace gravel; damp --RDR 2-3--			9	8 12 13	5.08 B	12
		Medium stiff to stiff, brown SILTY CLAY LOAM to SILTY CLAY, trace to some gravel; damp --RDR 2--			2	3 5 6	1.97 B	24						10	5 9 11	2.71 B	12
			5							705.3		25					
					3	6 12 20	NP				Boring terminated at 25.00 ft						
	723.8	Medium dense to dense, brown SANDY GRAVEL; damp to saturated --RDR 2-3--			4	12 15 16	NP	5									
			10		5	13 11 12	NP	6									
					6	15 9 14	NP	5									
			15		7	5 7 10	NP	10									
		--sand heaving in augers--			8	10 9 12	NP	8									
			20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-21-2022** Complete Drilling **04-21-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **R&P** Logger **M. Sadowski** Checked by **JAB**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **15.50 ft**
 At Completion of Drilling ∇ **21.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B10-NAW-04

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 731.32 ft
 North: 1949928.75 ft
 East: 1002222.13 ft
 Station: 421+41.55
 Offset: 50.50 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	730.7	7-inch thick, black SILTY CLAY --TOPSOIL-- Very stiff, brown SILTY CLAY, trace gravel; damp --RDR 2--			1	3 7 10	2.54 B	18									
	728.3	Medium stiff to stiff, brown SILTY CLAY LOAM to SILTY CLAY, trace gravel; damp --RDR 2--			2	4 4 4	0.50 P	16									
					3	4 4 6	1.00 P	23									
					4	3 3 3	1.31 B	23									
	720.8	Loose, brown LOAM, some gravel; moist --RDR 2--			5	5 5 3	NP	18									
	718.3	Medium dense, brown and gray SANDY GRAVEL to GRAVEL; damp to saturated --RDR 2--			6	18 7 8	NP										
					7	9 13 19	NP	6									
	713.3	Stiff, gray SILTY CLAY, trace gravel; damp --RDR 2--			8	3 5 6	1.39 B	16									
	711.3	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **04-21-2022** Complete Drilling **04-21-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **R&P** Logger **M. Sadowski** Checked by **JAB**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **15.50 ft**
 At Completion of Drilling ∇ **17.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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BORING LOG B10-NAW-05

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 730.59 ft
 North: 1949907.48 ft
 East: 1002444.45 ft
 Station: 423+65.70
 Offset: 72.39 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	730.5	1.5-inch thick ASPHALT															
	730.3	--PAVEMENT--															
	729.6	2.5-inch thick SANDY GRAVEL															
		--AGGREGATE BASE--															
		6-inch thick, brown SAND;															
		damp															
		--FILL--															
		Medium stiff to stiff, brown															
		CLAY LOAM, little to some															
		gravel; damp to moist															
		--RDR 2--															
					1	3 5 5	1.75 P	16									
					2	5 3 3	0.75 P	11									
					3	3 5 6	0.75 P	15									
	722.6	Medium stiff to stiff, brown to															
		gray SILTY CLAY LOAM to															
		CLAY LOAM, trace gravel;															
		damp															
		--RDR 2--															
					4	4 6 9	0.75 P	18									
					5	3 4 8	1.00 P	13									
					6	4 7 9	1.00 P	13									
					7	4 5 6	0.75 P	12									
	712.6	Very stiff, gray SILTY CLAY,															
		trace gravel; damp															
		--RDR 2--															
					8	4 7 10	2.13 B	13									
	710.6	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **04-21-2022** Complete Drilling **04-21-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **R&P** Logger **M. Sadowski** Checked by **JAB**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B10-NAW-06

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 737.96 ft
 North: 1949932.99 ft
 East: 1002672.56 ft
 Station: 426+14.22
 Offset: 47.70 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	737.0	12-inch thick, dark brown and black SILTY CLAY LOAM --TOPSOIL-- Stiff, black and dark brown SILTY CLAY LOAM, trace gravel; moist --RDR 2--	0-1	X	1	5 5 6	1.00 P	15		717.5	Very stiff, brown SILTY CLAY, trace gravel; damp --RDR 2--	0-1	X	9	4 6 11	3.53 B	13
	734.4	Very dense, tan GRAVEL; damp --RDR 2-5-- --hard drilling; possible cobbles-- --obstruction; boring resumed 10 ft E--	1-5	X	2	5 8 50/2"	NP			715.5	Boring terminated at 22.50 ft	5-22.5					
	732.0	Medium dense, brown medium to coarse SAND, little gravel; damp --RDR 2--	5-10	X	3	10 10 11	NP	6									
			10-15	X	4	7 8 12	NP	5									
	727.5	Medium dense, brown, fine to medium SAND, trace gravel; damp --RDR 2--	15-20	X	5	7 6 7	NP	7									
			20-25	X	6	5 5 7	NP	5									
	721.2	Medium stiff, brown SILTY CLAY LOAM to SILTY LOAM, trace gravel; moist --RDR 2--	25-30	X	7	8 7 7	NR										
			30-40	X	8	5 7 9	0.57 B	16									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-29-2022** Complete Drilling **03-31-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **PH&AG** Logger **D. You** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



BORING LOG B10-NAW-07

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 735.57 ft
 North: 1949934.78 ft
 East: 1002875.31 ft
 Station: 427+96.03
 Offset: 46.62 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	734.6	12-inch thick, black SILTY CLAY LOAM --TOPSOIL--															
		Medium stiff to hard, black and brown SILTY CLAY LOAM to SILTY CLAY, trace to little gravel; damp to moist			1	4 5 7	0.75 P	11									
	731.9	--RDR 2-- --Qu: 4.25P--															
		Medium dense, brown, fine to medium SAND, trace gravel; damp to moist			2	4 5 6	NP	6									
		--RDR 2--															
	728.8	Brown SILT, trace gravel; wet --RDR 2--			3	9 7 8	NP	16									
	727.6	Medium dense, brown, fine to medium SAND, trace gravel; damp to moist --RDR 2--			4	7 8 8	NP	11									
					5	6 8 8	NP	8									
					6	9 10 9	NP	6									
					7	8 8 13	NP	5									
	717.6	Medium dense, brown Gravelly SAND; damp --RDR 2--			8	9 10 10	NP	5									
	715.6	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **03-29-2022** Complete Drilling **03-29-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **PH&AG** Logger **D. You** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **6.75 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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BORING LOG B11+13-2-NAW-01

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 735.54 ft
 North: 1950056.85 ft
 East: 1002562.71 ft
 Station: 424+84.21
 Offset: 76.28 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	734.5	12-inch thick SILTY CLAY --TOPSOIL-- --disturbed sample-- Very stiff to hard, gray SILTY CLAY, trace to little gravel; damp to moist --RDR 2--			1	3 6 10	4.50 P	20						9	4 7 8	1.56 B	14
	731.8	Medium dense, brown, fine to medium SAND, trace to little gravel; dry to damp --RDR 2--	5		2	4 5 8	NP	2		710.5		25		10	5 7 9	1.72 B	14
					3	6 7 11	NP	3		Boring terminated at 25.00 ft							
					4	5 6 11	NP	3									
	725.0	Medium dense, brown, medium to coarse SAND, some gravel; damp --RDR 2--			5	15 14 15	NP	4									
	722.5	Dense, brown, fine to medium SAND, trace gravel; damp --RDR 2--	15		6	9 14 19	NP	4									
	720.0	Stiff to vert stiff, gray SILTY CLAY LOAM to CLAY LOAM, trace gravel; moist --RDR 2--			7	12 5 9	2.13 B	12									
					8	5 6 7	1.15 B	12									

GENERAL NOTES

Begin Drilling **03-16-2022** Complete Drilling **03-16-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



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BORING LOG B11+13-2-NAW-02

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 733.97 ft
 North: 1950043.09 ft
 East: 1002741.66 ft
 Station: 426+66.13
 Offset: 61.41 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
[Patterned Profile]	731.0	Stiff, black SILTY CLAY, trace gravel; moist --RDR 2--	0	X	1	4 4 6	1.50 P	32	[Patterned Profile]	708.5	Very stiff, gray SILTY CLAY LOAM to CLAY LOAM, trace gravel; moist --RDR 2--	0	X	9	4 4 5	0.74 B	16	
		Medium stiff, black and brown SILTY CLAY, trace gravel; moist --RDR 2--	5	X	2	3 3 4	0.66 B	24				5	X	10	5 7 9	0.66 B	15	
		Very loose, dark brown LOAM to SANDY LOAM, trace gravel; moist to wet --RDR 2--	10	X	3	2 0 2	NP	29				10	X	11	10 10 12	2.05 B	13	
		Loose, light brown and brown, fine SAND, trace gravel; damp to moist --RDR 2--	15	X	4	3 4 5	NP	16				Boring terminated at 27.50 ft						
			20	X	5	2 2 3	NP	9										
		Medium dense, brown, fine to coarse SAND; trace to little gravel; damp to saturated --RDR 2-3--	25	X	6	5 7 11	NP	8										
			30	X	7	12 12 11	NP	13										
		Medium stiff, gray SILTY CLAY LOAM, trace gravel; moist --RDR 2--	40	X	8	2 3 2	0.98 B	14										

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GENERAL NOTES

Begin Drilling **03-16-2022** Complete Drilling **03-16-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



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BORING LOG B11+13-2-NAW-03

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 737.33 ft
 North: 1950019.97 ft
 East: 1001812.63 ft
 Station: 428+98.99
 Offset: 48.05 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick SANDY LOAM --TOPSOIL--															
	736.3	Dense, brown Gravelly SAND; damp --RDR 2--		X	1	10 14 16	NP	6					X	9	4 6 8	1.48 B	14
	734.3	Medium dense, brown, coarse SAND, little gravel; damp --RDR 2-3--		X	2	10 12 12	NP	6					X	10	4 5 8	2.71 B	14
	731.8	Medium dense, brown and red SANDY GRAVEL; damp --RDR 2-3--		X	3	14 15 13	NP	4									
	729.3	Dense, brown, medium to coarse SAND, some gravel; damp --RDR 3--		X	4	11 18 15	NP	4									
	726.8	Medium dense, brown, fine to medium SAND, trace gravel; damp to saturated --RDR 2-3--		X	5	8 12 16	NP	13									
				X	6	10 16 13	NP	17									
	721.8	Stiff to very stiff, gray SILTY CLAY, trace gravel; moist --RDR 2--		X	7	7 7 10	2.46 B	14									
				X	8	4 6 8	1.89 B	14									
										712.3	Boring terminated at 25.00 ft						

GENERAL NOTES

Begin Drilling **03-16-2022** Complete Drilling **03-16-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **13.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B11+13-2-NAW-04

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 732.05 ft
 North: 1950039.91 ft
 East: 1003181.94 ft
 Station: 431+05.74
 Offset: 51.18 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	730.4	Medium stiff, black SILTY CLAY, trace gravel; moist --trace organic matter-- --RDR 2--		X	1	8 20 16	0.50 P	54		711.6	Stiff to very stiff, gray SILTY CLAY, trace gravel; moist --RDR 2--		X	9	6 8 10	2.79 B	14	
		Medium dense to dense, brown, medium to coarse SAND, trace to some gravel; damp --RDR 2-3--		X	2	11 14 16	NP	6					X	10	8 9 12	1.80 B	14	
			5							707.1		25						
				X	3	13 18 19	NP	4										
				X	4	12 9 6	NP	5										
			10															
				X	5	11 19 21	NP	3										
				X	6	16 13 11	NP	4										
			15															
	716.6	Dense, brown and gray Gravelly SAND; damp to saturated --RDR 2-3--		X	7	24 21 18	NP	4										
				X	8	17 16 15	NP	7										
			20															
		Boring terminated at 25.00 ft																

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-16-2022** Complete Drilling **03-16-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA to 10', mud rotary thereafter; boring backfilled upon completion**

While Drilling **19.50 ft**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

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



BORING LOG B11+13-2-NAW-05

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 733.16 ft
 North: 1950046.17 ft
 East: 1003404.09 ft
 Station: 433+26.49
 Offset: 56.50 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	731.5	Medium stiff, black SILTY CLAY, trace gravel; moist --trace organic matter-- --RDR 2--			1	10 17 18	0.50 P	38									
	730.2	Dense, gray and brown, fine to medium SAND, little gravel; damp --RDR 2--			2	15 15 15	NP	4									
		Medium dense to dense, gray and brown SANDY GRAVEL to Gravelly SAND; damp --RDR 3--			3	14 16 10	NP	4									
	725.2	Medium dense, brown, medium to coarse SAND, trace to little gravel; damp --RDR 2-3--			4	12 9 7	NP	4									
					5	11 12 13	NP	4									
	720.2	Medium dense to dense, brown Gravelly SAND; saturated --RDR 2--			6	8 18 16	NP	4									
					7	15 16 17	NP	5									
	713.2				8	13 15 12	NP	9									
Boring terminated at 20.00 ft																	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-15-2022** Complete Drilling **03-15-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **19.00 ft**
 At Completion of Drilling ∇ **19.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B11+13-2-NAW-06

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 730.72 ft
 North: 1950043.30 ft
 East: 1003654.75 ft
 Station: 435+75.43
 Offset: 49.29 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick SILTY CLAY --TOPSOIL--															
	729.7	Dense, black SANDY LOAM to LOAM, trace gravel; moist --RDR 2--			1	10 16 19	NP	56									
	727.7	Dense, brown Medium SAND, little gravel; damp --RDR 2--			2	10 13 17	NP	4									
	725.2	Medium dense to dense, brown Gravelly SAND; damp --RDR 2--			3	15 13 17	NP	6									
					4	7 11 17	NP	7									
					5	9 15 20	NP	4									
					6	15 19 19	NP	4									
					7	14 23 22	NP	6									
	712.7	Hard, gray SILTY CLAY, trace gravel; damp --RDR 2--			8	8 12 16	5.25 B	12									
	710.7	Boring terminated at 20.00 ft															

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GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-15-2022** Complete Drilling **03-15-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 753.17 ft
 North: 1950044.79 ft
 East: 1003855.89 ft
 Station: 437+78.21
 Offset: 48.06 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	752.4	9-inch thick CONCRETE --PAVEMENT--															
		Medium dense, gray and brown Gravelly SAND; dry --AGGREGATE BASE-- --RDR 2--			1	12 12 9	NP	5									
	750.2	Medium dense to dense, brown, medium to coarse SAND, little to some gravel; damp --RDR 2-3--			2	9 9 11	NP	5									
					3	9 8 9	NP	4									
					4	8 12 15	NP	4									
	742.7	Medium dense, brown, medium to coarse SAND, trace to little gravel; damp to saturated --RDR 2--			5	15 17 17	NP	3									
					6	15 13 12	NP	8									
	737.7	Dense to very dense, brown Gravelly SAND to SANDY GRAVEL; saturated --RDR 2--			7	45 20 28	NP	7									
					8	19 37 23	NP	11									
	733.2	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-15-2022** Complete Drilling **03-15-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **14.00 ft**
 At Completion of Drilling ∇ **17.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 758.51 ft
 North: 1950060.01 ft
 East: 1001355.98 ft
 Station: 1412+88.38
 Offset: 104.38 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	757.5	12-inch thick SILTY CLAY --TOPSOIL--															
		Very stiff, brown and black SILTY CLAY, trace gravel; moist --RDR 2--			1	5 6 4	3.03 B	22						9	42 50/6"	NR	
	755.5	Dense, brown and gray Gravelly CLAY LOAM; moist --RDR 2--			2	6 18 19	NP	12				25		10	15 16 24	NA	14
	753.0	--collect cutting-- Very stiff to hard, gray SILTY CLAY LOAM, trace gravel; damp to moist --RDR 2--			3	11 15 18	NR	16						11	7 14 16	> 4.50 P	13
		--possible cobble--			4	13 16 15	3.00 P	17		730.5	Very stiff to hard, pinkish brown CLAY LOAM, trace gravel; damp to moist --3-inch sand; damp-- --RDR 2--			12	19 19 11	2.50 P	12
					5	6 8 10	2.62 B	17									
					6	4 7 8	2.13 B	17									
					7	4 9 11	3.03 B	17									
					8	5 7 9	2.79 B	19		728.5	Boring terminated at 30.00 ft						

GENERAL NOTES

Begin Drilling **03-17-2022** Complete Drilling **03-17-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 751.74 ft
 North: 1950020.49 ft
 East: 1001570.27 ft
 Station: 1414+98.72
 Offset: 57.07 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	750.7	12-inch thick SILTY CLAY --TOPSOIL-- Medium stiff, black and brown SILTY CLAY, trace gravel; moist --RDR 2--		X	1	5 4 4	0.82 B	18		731.2	Dense, brown Gravelly SILTY LOAM; damp to moist --RDR 2--		X	9	15 18 12	NP	13
	748.7	Hard, brown and gray SILTY CLAY LOAM to CLAY LOAM, trace gravel; damp to moist --RDR 2--	5	X	2	2 2 7	5.00 B	16		728.7	Medium stiff, brown SILTY CLAY, trace gravel; moist --disturbed sample-- --push 18-inch to get Qu value--	25	X	10	5 8 14	0.74 B	20
				X	3	12 13 19	9.02 B	15		726.2	Stiff to very stiff, brown SILT to SILTY LOAM, trace gravel; damp to moist --RDR 2--		X	11	2 5 11	1.64 B	22
			10	X	4	13 16 21	10.25 B	13					X	12	15 25 37	2.38 B	17
				X	5	17 21 27	9.59 B	15		722.0 721.7	Brown fine SAND; damp Boring terminated at 30.00 ft	30	X				
			15	X	6	10 11 18	7.71 B	16				35	X				
				X	7	8 12 18	6.56 B	17					X				
			20	X	8	6 9 13	4.18 B	23				40	X				

GENERAL NOTES

Begin Drilling **03-17-2022** Complete Drilling **03-17-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 737.12 ft
 North: 1950021.29 ft
 East: 1001812.61 ft
 Station: 417+34.82
 Offset: 56.49 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	736.7	5-inch thick, brown SILTY CLAY --TOPSOIL-- Stiff, brown SILTY CLAY, trace gravel and brick fragments; damp			1	2 2 4	1.50 P	21		716.6	Medium dense, brown Gravelly SAND; wet to saturated --RDR 2--			9	11 11 12	NP	7
	734.1	--FILL-- --RDR 2-- Medium dense, brown Gravelly SAND; damp			2	2 4 6	NP	8				25		10	13 8 8	NP	12
	731.6	Loose to medium dense, brown, fine to medium SAND, trace gravel; damp --RDR 2--			3	3 3 5	NP	9						11	10 5 11	NP	15
					4	4 5 6	NP	6		707.6	Stiff to very stiff, brown to gray SILTY CLAY LOAM, trace gravel; damp --RDR 2--			12	10 8 7	NP	7
					5	9 10 10	NP	4									
					6	7 8 10	NP	4				35		13	5 5 8	3.28 B	13
					7	7 8 9	NP	4									
					8	7 9 12	NP	4				40		14	4 5 7	1.89 B	14

GENERAL NOTES

Begin Drilling **04-14-2022** Complete Drilling **04-14-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoT[92%]**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **23.00 ft**
 At Completion of Drilling ∇ **26.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B11+13-NAW-03

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 737.12 ft
 North: 1950021.29 ft
 East: 1001812.61 ft
 Station: 417+34.82
 Offset: 56.49 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	677.1		45		15	6 7 9	1.39 B	15									
			50		16	6 4 8	2.13 B	14									
			55		17	5 9 10	2.95 B	14									
			60		18	5 7 10	2.87 B	14									
Boring terminated at 60.00 ft																	

GENERAL NOTES

Begin Drilling **04-14-2022** Complete Drilling **04-14-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoT[92%]**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **23.00 ft**
 At Completion of Drilling ∇ **26.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B11+13-NAW-05

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 747.75 ft
 North: 1950000.06 ft
 East: 1002285.46 ft
 Station: 422+07.27
 Offset: 27.87 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	746.8	12-inch thick ASPHALT --PAVEMENT--															
	744.8	Loose, dark brown Gravelly SAND, trace glass and brick fragments; damp --FILL-- --RDR 2--	1		1	3 3 3	NP	11									
		Stiff to very stiff, dark brown SILTY CLAY LOAM, trace to little gravel and brick fragments; damp --FILL-- --RDR 2--	5		2	2 2 3	1.00 P	8									
					3	2 3 4	3.00 P	15									
	739.8	Stiff, dark brown Gravelly CLAY LOAM; damp to moist --FILL-- --RDR 2--	10		4	3 2 3	1.00 P	12									
	737.3	Very stiff, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace to little gravel; damp --FILL-- --RDR 2--	15		5	4 3 3	3.50 P	15									
					6	4 4 7	3.50 P	15									
	732.3	Loose to medium dense, gray Gravelly SAND to SANDY GRAVEL, trace concrete fragments; damp --FILL-- --RDR 2-3--			7	7 3 2	NP	6									
	727.8		20		8	18 7 9	NP	4									
Boring terminated at 20.00 ft																	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-12-2022** Complete Drilling **04-12-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoT[92%]**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

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

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

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BORING LOG B11+13-NAW-06

WEI Job No.: 121-03-01

Client **Gannett Fleming**
Project **US Route 20 From Randall Rd to Shales Parkway**
Location **Elgin, Illinois**

Datum: NAVD 88
Elevation: 742.87 ft
North: 1950019.63 ft
East: 1002494.16 ft
Station: 424+16.25
Offset: 44.18 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	742.54	1-inch thick, black SILTY CLAY --TOPSOIL--															
	741.9	Brown SANDY LOAM Medium stiff, black, brown, and dark gray CLAY LOAM to SILTY CLAY LOAM, trace gravel; moist			1	10 13 8	0.66 B	25			Stiff, pinkish gray CLAY LOAM to SILTY CLAY LOAM, trace gravel; moist						
		--FILL-- --RDR 2--			2	4 4 7	0.82 B	18			--sand seem--			9	34 18 9	NR	
					3	5 4 3	0.57 B	17						10	3 6 8	1.07 B	11
	734.9	Very stiff, black to greenish gray SILTY CLAY LOAM, little gravel; moist			4	4 6 6	< 0.25 P	19						11	3 4 6	1.56 B	13
					5	6 9 10	NP	6						12	5 5 7	1.15 B	14
	731.5	Medium dense, brown, medium to coarse SAND, trace gravel; damp			6	10 8 8	NP	4									
		--RDR 2--			7	6 35 50/3"	NP	5									
	727.4	Very dense, brown Gravelly SAND; damp			8	10 11 10	NP	10									
	724.9	Medium dense, brown, fine SAND to SANDY LOAM, trace gravel; damp															
	723.1																
Boring terminated at 30.00 ft																	

GENERAL NOTES

Begin Drilling **03-16-2022** Complete Drilling **03-16-2022**
Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B12-NAW-01

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 734.28 ft
 North: 1949907.42 ft
 East: 1002939.97 ft
 Station: 428+62.32
 Offset: 75.49 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	734.03	3-inch thick, dark brown SILTY CLAY LOAM															
		--TOPSOIL--															
	732.8	Stiff, brown SILTY CLAY LOAM, trace gravel; moist			1	3 3 2	1.75 P	20									
		Medium dense, brown, fine to medium SAND, trace gravel; damp to moist			2	9 9 13	NP	3									
	728.8	Medium dense, brown medium to coarse SAND, little to some gravel; damp			3	5 8 9	NP	6									
					4	6 7 8	NP	4									
	723.8	Brown SANDY GRAVEL; damp			5	10 9 9	NP	4									
	723.0	Medium dense, brown, fine to medium SAND, trace gravel; damp to moist			6	7 8 9	NP	15									
					7	6 7 9	NP	5									
	716.3	Medium dense, brown, coarse SAND, little to some gravel; damp			8	9 12 12	NP	4									
	714.3	Boring terminated at 20.00 ft			20												

GENERAL NOTES

Begin Drilling **03-29-2022** Complete Drilling **03-29-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **PH&AG** Logger **D. You** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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

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BORING LOG B12-NAW-02

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 735.35 ft
 North: 1949912.19 ft
 East: 1003154.20 ft
 Station: 430+72.58
 Offset: 74.15 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	734.4	12-inch thick, brown and gray SANDY LOAM								714.9	Very stiff, gray CLAY LOAM to SILTY LOAM, trace gravel; moist						
	733.2	--TOPSOIL-- Medium stiff, black SILTY CLAY to SANDY LOAM, trace gravel and organic matter; moist			1	3 8 18	0.66 B	39			--RDR 2--			9	3 6 9	2.79 B	11
		Dense, brown, fine to medium SAND, little to some gravel; damp			2	9 15 16	NP	5			--RDR 2--			10	11 10 14	2.38 B	12
	729.9	Medium dense to dense, brown, Gravelly SAND to SANDY GRAVEL; damp			3	23 25 24	NP	4									
					4	11 11 11	NP	5									
					5	14 16 17	NP	5									
	722.4	Medium stiff, pinkish gray to gray LOAM to CLAY LOAM, trace gravel; moist			6	4 4 5	0.90 B	15									
					7	4 7 6	0.98 B	14									
					8	5 6 7	0.82 B	13									
											Boring terminated at 25.00 ft						

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GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-22-2022** Complete Drilling **03-22-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



BORING LOG B12-NAW-03

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 737.28 ft
 North: 1949920.82 ft
 East: 1003367.16 ft
 Station: 432+87.60
 Offset: 68.26 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick CLAY --TOPSOIL--								716.8							
	736.3	Soft, black SILTY CLAY, trace gravel; moist --RDR 2--			1	9 10 11	0.41 B	9			Medium dense to dense, brown Gravelly SAND; damp to wet --RDR 2--			9	17 20 18	NP	6
	734.3	Dense, brown fine to medium SAND, trace to little gravel; damp --RDR 2--	5		2	18 21 20	NP	4						10	15 9 9	NP	9
	731.8	Dense, brown, medium and coarse SAND, trace to little gravel; damp --RDR 2--			3	13 17 22	NP	5			Boring terminated at 25.00 ft						
					4	13 14 17	NP	5									
					5	7 16 17	NP	5									
					6	12 24 26	NP	4									
					7	13 18 15	NP	4									
					8	16 18 19	NP	4									

GENERAL NOTES

Begin Drilling **03-22-2022** Complete Drilling **03-22-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **23.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B12-NAW-04

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 735.30 ft
 North: 1949937.56 ft
 East: 1003569.77 ft
 Station: 434+90.45
 Offset: 54.69 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	734.3	12-inch thick, black SILTY CLAY --TOPSOIL--															
		Medium stiff to stiff, black SILTY CLAY, trace gravel and organic matter; moist --RDR 2--			1	6 5 6	0.82 B	23		713.6	Hard, gray CLAY LOAM to SILTY LOAM, trace gravel; moist --RDR 2--			9	40 39 50/3"	NR	
	731.4	--Qu: 1.50P-- Medium dense, brown, fine to medium SAND, trace to little gravel; damp to moist --RDR 2-3--	5		2	4 8 8	NP	8		710.3		25		10	8 12 18	4.26 B	13
					3	11 14 18	NP	5			Boring terminated at 25.00 ft						
	727.3	Medium dense to dense, brown medium to coarse SAND, trace to little gravel; moist --RDR 2--	10		4	8 13 13	NP	4									
					5	12 13 12	NP	5									
					6	13 20 21	NP	4									
					7	17 27 30	NP	4									
	717.3	Very dense, brown Gravelly SAND; moist --RDR 2--	20		8	22 36 35	NP	6									

GENERAL NOTES

Begin Drilling **03-22-2022** Complete Drilling **03-22-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **23.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B12-NAW-05

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 727.20 ft
 North: 1949941.37 ft
 East: 1003760.87 ft
 Station: 436+84.66
 Offset: 56.53 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	726.2	12-inch thick, black SILTY CLAY --TOPSOIL-- Soft, black SILTY CLAY, trace gravel; moist --RDR 2--			1	4 4 9	0.49 B	13						9	12 13 19	3.44 B	13
	724.2	Medium dense to dense, gray and brown, fine to medium SAND, trace to little gravel; damp --RDR 2-3--	5		2	9 11 14	NP	6			--trace wood fragments--	25		10	7 11 15	2.05 B	25
					3	10 9 12	NP	5						11	11 16 21	4.76 B	13
					4	13 17 15	NP	5						12	9 12 19	4.59 B	13
	716.7	Dense, brown coarse SAND, trace to little gravel; damp --RDR 2--			5	42 24 22	NP	6			Boring terminated at 30.00 ft						
	714.2	Dense, brown and gray SANDY GRAVEL; saturated --RDR 3--	15		6	19 16 24	NP	7				35					
	710.8	Very stiff to hard, pinkish gray to gray SILTY CLAY, trace to little gravel; moist --RDR 2--			7	9 11 13	6.48 B	16									
					8	7 10 15	4.43 B	14				40					

GENERAL NOTES

Begin Drilling **03-23-2022** Complete Drilling **03-23-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **13.50 ft**
 At Completion of Drilling ∇ **19.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B14-NAW-01

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 749.99 ft
 North: 1949955.74 ft
 East: 1005270.37 ft
 Station: 451+91.85
 Offset: 65.70 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	749.3	8-inch thick, black SILTY CLAY --TOPSOIL--															
		Loose, brown SANDY LOAM, trace gravel; moist --RDR 2--			1	4 3 3	NP	20									
	747.0	Medium stiff, dark gray SILTY CLAY to SILTY CLAY LOAM, trace organic matter and gravel; moist --RDR 2--			2	4 10 18	0.50 P	41									
	744.5	Medium dense, brown Gravelly SAND; damp --RDR 2--			3	9 10 10	NP	4									
	740.7	Medium dense to dense, brown, fine to coarse SAND, trace to some gravel; damp --RDR 2-3--			4	13 14 15	NR										
			10		5	10 11 12	NP	4									
					6	10 10 14	NP	3									
			15		7	12 15 16	NP	4									
	732.0	Medium dense, brown, coarse SAND, trace gravel; damp --RDR 2--			8	9 7 3	NP	9									
	730.0	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-23-2022** Complete Drilling **03-23-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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

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BORING LOG B14-NAW-02

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 755.32 ft
 North: 1949954.03 ft
 East: 1005448.76 ft
 Station: 453+70.61
 Offset: 69.73 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	754.3	12-inch thick, black SILTY CLAY --TOPSOIL-- Soft, black and brown SILTY CLAY, trace gravel; moist --RDR 2--			1	4 4 5	0.49 B	37									
	751.5	Medium dense to dense, brown, fine to medium SAND, trace to little gravel; damp to moist --RDR 2--	5		2	9 8 10	NP	5									
					3	16 16 15	NP	4									
			10		4	10 12 15	NP	3									
					5	7 5 7	NP	3									
			15		6	9 8 10	NP	3									
	739.8	Stiff to hard, gray SILTY CLAY LOAM to CLAY LOAM, trace gravel, few sand seams; moist --RDR 2--			7	8 14 19	NP	13									
	735.3		20		8	10 12 12	NP	17									
Boring terminated at 20.00 ft																	

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-23-2022** Complete Drilling **03-23-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



BORING LOG B14-NAW-03

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 762.14 ft
 North: 1949960.30 ft
 East: 1005637.93 ft
 Station: 455+58.71
 Offset: 64.27 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	761.1	12-inch thick, black SILTY CLAY															
	760.5	Medium stiff, black SILTY CLAY, trace gravel; moist			1	5 6 6	0.49 B	41									
		Medium dense to dense, brown, medium SAND, trace gravel; damp to moist			2	6 7 8	NP	5									
					3	13 13 13	NP	5									
					4	10 15 21	NP	3									
					5	15 14 17	NP	4									
	749.1	Medium dense to dense, brown, coarse SAND, trace gravel; damp to moist			6	14 15 17	NP	4									
					7	15 13 11	NP	4									
					8	14 13 12	NP	3									
	742.1	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-23-2022** Complete Drilling **03-23-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



BORING LOG B14-NAW-04

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 762.84 ft
 North: 1949961.94 ft
 East: 1005819.70 ft
 Station: 457+42.22
 Offset: 67.46 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	762.54	1-inch thick, black SILTY CLAY --TOPSOIL-- Medium stiff to stiff, brown, gray and black SILTY CLAY, trace gravel; moist			1	5 4 8	1.07 B	23									
	758.6	Medium dense, brown, fine to medium SAND, trace to little gravel; damp	5		2	7 6 9	NP	12									
					3	13 14 12	NP	5									
					4	9 11 9	NP	3									
					5	11 12 17	NP	4									
					6	10 12 14	NP	6									
	747.3	Dense to very dense, brown, coarse SAND, trace to little gravel; damp			7	14 16 18	NP	10									
					8	15 25 25	NP	11									
	742.8	Boring terminated at 20.00 ft															

GENERAL NOTES

Begin Drilling **03-23-2022** Complete Drilling **03-23-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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

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BORING LOG B14-NAW-05

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 764.18 ft
 North: 1949965.75 ft
 East: 1006015.70 ft
 Station: 459+37.71
 Offset: 67.30 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	763.94	1-inch thick, black SILTY CLAY --TOPSOIL-- Medium stiff to stiff, black to brown SILTY CLAY, trace gravel; moist --RDR 2--			1	4 4 4	0.57 B	26									
			5		2	3 3 4	1.64 B	29									
	757.9	Medium dense to dense, brown, fine to medium SAND, trace to little gravel; damp --RDR 2--			3	7 8 11	NP	9									
			10		4	10 13 13	NP	7									
					5	11 11 8	NP	6									
			15		6	11 10 13	NP	7									
					7	10 13 20	NP	5									
	746.2	Dense, brown, coarse SAND, little gravel; damp --RDR 2--			8	12 14 16	NP	5									
	744.2	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-24-2022** Complete Drilling **03-24-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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

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BORING LOG B14-NAW-06

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 768.53 ft
 North: 1949982.94 ft
 East: 1006180.56 ft
 Station: 461+01.63
 Offset: 50.11 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Medium stiff, black SILTY CLAY LOAM															
	767.1	--TOPSOIL--															
		Medium dense to dense, brown, fine to coarse SAND, trace gravel; damp			1	8 13 12	0.50 P	24									
		--RDR 2-3--															
		--silt seam--			2	11 9 13	NP	6									
			5		3	7 9 8	NP	9									
					4	6 9 9	NP	4									
			10		5	7 10 10	NP	4									
					6	8 16 20	NP	3									
			15		7	6 6 10	NP	4									
					8	5 11 15	NP	4									
	748.5		20														
Boring terminated at 20.00 ft																	

GENERAL NOTES

Begin Drilling **04-04-2022** Complete Drilling **04-04-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **18D25A [85%]**
 Driller **PH&AG** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B14-NAW-07

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 770.36 ft
 North: 1949987.85 ft
 East: 1006355.85 ft
 Station: 462+76.98
 Offset: 47.94 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	769.7	8-inch thick, black SILTY CLAY LOAM															
		--TOPSOIL--															
	768.5	Stiff, brown SILTY CLAY LOAM, trace gravel ; damp to moist			1	9 11 16	1.07 B	15									
		--FILL--															
		Medium dense, brown SANDY GRAVEL to Gravelly SAND; damp to moist			2	10 13 16	NP	8									
		--RDR 2-4-- --rig chatter--	5														
					3	8 6 8	NP	5									
	762.4	Medium dense, brown, fine to coarse SAND, trace to some gravel; moist			4	5 9 11	NP	6									
		--RDR 2--	10														
					5	6 7 10	NP	7									
	757.4	Medium dense to dense, brown SANDY GRAVEL to Gravelly SAND; moist			6	10 15 15	NP	5									
		--RDR 2--	15														
					7	12 14 13	NP	5									
					8	10 12 12	NP	5									
	750.4	Boring terminated at 20.00 ft	20														

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GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-31-2022** Complete Drilling **03-31-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **PH&AG** Logger **D. You** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



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BORING LOG B14-NAW-07B

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 769.14 ft
 North: 1949989.40 ft
 East: 1006357.45 ft
 Station: 462+81.36
 Offset: 49.36 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	768.7	5-inch thick, black SILTY CLAY --TOPSOIL--									--RDR 2--						
		Medium dense, brown Gravelly SAND, trace concrete fragments; damp			1	8 10 11	NP	7									
	766.1																
		Medium dense, brown, fine to coarse SAND, trace gravel; damp to moist			2	7 8 13	NP	8									
					3	5 6 7	NP	6									
					4	4 5 5	NP	6									
					5	5 6 7	NP	5									
		--trace concrete fragments--			6	4 11 11	NP	5									
	753.6																
		Medium dense, brown Gravelly SAND, trace concrete fragments; damp			7	7 12 14	NP	4									
	751.1																
		Medium dense, brown, fine to medium SAND, trace concrete fragments; damp			8	6 12 13	NP	4									
	749.1																

GENERAL NOTES

Begin Drilling **04-13-2022** Complete Drilling **04-13-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoT[92%]**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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

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BORING LOG B14-NAW-08

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 775.55 ft
 North: 1949968.94 ft
 East: 1006558.26 ft
 Station: 464+78.20
 Offset: 70.61 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	774.6	12-inch thick, black SILTY CLAY --TOPSOIL--															
		Soft to stiff, black and brown SILTY CLAY, trace gravel; moist --RDR 2--			1	5 4 4	0.25 B	18									
		--trace organic matter--			2	2 4 5	1.50 P	32									
			5		3	4 6 9	1.15 S	25									
	767.6	Medium dense to very dense, brown, fine to medium SAND, trace to some gravel; damp --RDR 2-3--			4	19 27 30	NP	4									
			10		5	17 22 25	NP	2									
					6	12 16 18	NP	3									
			15		7	9 13 21	NP	5									
					8	10 10 10	NP	4									
	755.6	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-24-2022** Complete Drilling **03-24-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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

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BORING LOG B14-NAW-09

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 770.94 ft
 North: 1949973.79 ft
 East: 1006733.62 ft
 Station: 466+64.76
 Offset: 74.87 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	769.9	12-inch thick, black SILTY CLAY															
		--TOPSOIL--															
		Soft to stiff, black SILTY CLAY, trace gravel; moist			1	2 4 5	0.25 B	40									
		--RDR 2--															
	766.9	--Qu: 1.00P--															
		Medium dense to dense, brown and gray, fine to medium SAND, trace to little gravel; damp			2	9 9 10	NP	4									
		--RDR 2-3--															
		--possible cobbles--			3	16 19 25	NP	5									
					4	7 15 7	NP	3									
					5	13 14 14	NP	4									
					6	8 13 18	NP	4									
					7	10 12 10	NP	4									
					8	15 16 17	NP	4									
	750.9	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-24-2022** Complete Drilling **03-24-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



BORING LOG B14-NAW-10

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 769.35 ft
 North: 1949897.14 ft
 East: 1006879.76 ft
 Station: 468+01.44
 Offset: 149.89 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	768.4	12-inch thick, black SILTY CLAY --TOPSOIL--															
		Soft to stiff, black and brown SILTY CLAY, trace gravel; moist --RDR 2--			1	2 3 7	1.50 P	42									
			5		2	6 7 12	0.41 B	30									
	763.9	Medium dense to dense, brown, fine to coarse SAND, trace to little gravel; damp --RDR 2-3--			3	16 21 16	NP	3									
			10		4	12 22 21	NP	3									
					5	17 20 18	NP	4									
			15		6	9 16 20	NP	4									
					7	11 9 16	NP	4									
					8	9 11 21	NP	2									
	749.4	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-24-2022** Complete Drilling **03-24-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



BORING LOG B15-NAW-01

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 735.58 ft
 North: 1950070.29 ft
 East: 1004871.16 ft
 Station: 447+93.75
 Offset: 57.69 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick, black SANDY LOAM															
	734.6	--TOPSOIL--															
	734.0	Stiff, black SILTY CLAY, trace gravel; moist			1	5 11 10	1.50 P	32									
		--RDR 2--															
	732.6	Medium dense, brown SANDY GRAVEL; damp			2	8 8 7	NP	4									
		Medium dense, brown, fine to medium SAND, trace to little gravel; damp	5														
		--RDR 2--															
		--RDR 2-3--			3	4 5 5	NP	1									
					4	5 8 10	NP	3									
			10														
					5	9 11 13	NP	3									
	722.6	Loose to medium dense, brown, medium to coarse SAND; some gravel; damp to saturated			6	6 6 5	NP	5									
		--RDR 2-3--	15														
					7	3 4 4	NP	8									
					8	9 7 7	NP	18									
	715.6	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-15-2022** Complete Drilling **03-15-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B15-NAW-02

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
Project **US Route 20 From Randall Rd to Shales Parkway**
Location **Elgin, Illinois**

Datum: NAVD 88
Elevation: 743.24 ft
North: 1950077.52 ft
East: 1005083.45 ft
Station: 450+06.13
Offset: 61.6 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)		
	742.2	12-inch thick, black SILTY CLAY --TOPSOIL--								742.2	12-inch thick, black SILTY CLAY								
		Stiff, black SILTY CLAY, trace gravel; moist --disturbed sample--			1	6 8 9	1.50 P	21			721.4	Very Stiff, gray SILTY CLAY LOAM to CLAY LOAM, trace gravel; moist			9	21 11 10	2.00 P	15	
	740.2	Dense, brown and tan, SILTY CLAY and GRAVEL; damp to moist --RDR 2--			2	14 15 15	NP	16							10	9 11 13	2.79 B	12	
	737.7	Medium dense, brown, fine to medium SAND, trace gravel; damp --RDR 2--			3	12 9 7	NP	3											
	735.2	Loose, brown, medium to coarse SAND, some gravel; damp --RDR 2--			4	4 4 4	NP	3											
	732.7	Loose to medium dense, brown, fine to medium SAND, trace to little gravel; damp to saturated --RDR 2--			5	3 3 4	NP	3											
					6	6 5 3	NP	6											
					7	2 4 6	NP	29											
				8	12 8 8	NP	21												
										718.2	Boring terminated at 25.00 ft								

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GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-15-2022** Complete Drilling **03-15-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



BORING LOG B15-NAW-03

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 750.53 ft
 North: 1950074.92 ft
 East: 1005310.65 ft
 Station: 452+33.26
 Offset: 55.452 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Stiff, black SILTY CLAY, trace gravel								730.0	Medium dense, gray SILT to SILTY LOAM, trace gravel; wet						
	749.0	--TOPSOIL--									--RDR 2--						
		Medium dense, brown, medium to coarse SAND, some gravel; damp			1	10 12 10	1.50 P	35						9	10 7 6	NP	20
	747.5	--RDR 2--								727.5	Very stiff, gray CLAY LOAM, trace gravel; moist						
		Medium dense to dense, brown, fine to medium SAND, little gravel; damp			2	14 12 12	NP	4			--RDR 2--			10	12 9 13	3.12 B	11
		--RDR 2--			5					725.5	Boring terminated at 25.00 ft						
					3	12 16 12	NP	3									
					4	17 17 18	NP	3									
					5	14 14 14	NP	4									
					6	4 5 11	NP	4									
					7	12 15 18	NP	3									
					8	19 15 15	NP	3									

GENERAL NOTES

Begin Drilling **03-14-2022** Complete Drilling **03-14-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B15-NAW-04

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 756.75 ft
 North: 1950080.80 ft
 East: 1005519.97 ft
 Station: 454+42.65
 Offset: 58.062 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Stiff, black SILTY CLAY --TOPSOIL--															
	755.1	Medium dense, brown, fine to medium SAND, trace to little gravel; damp			1	10 8 7	1.50 P	44						9	11 10 11	NP	3
		--RDR 2--			2	8 8 8	NP	5						10	19 18 16	NP	3
			5							731.8		25					
					3	14 12 9	NP	5			Boring terminated at 25.00 ft						
	748.8	Medium dense, brown, medium to coarse SAND, little gravel; damp			4	10 9 8	NP	4									
		--RDR 2--	10														
	746.3	Medium dense to dense, brown, fine to medium SAND, trace to little gravel; damp			5	8 8 5	NP	3									
		--RDR 2--			6	17 16 10	NP	3									
		--silty clay seem--	15														
					7	14 15 11	NP	3									
					8	16 17 16	NP	2									
			20														

GENERAL NOTES

Begin Drilling **03-14-2022** Complete Drilling **03-14-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B15-NAW-05

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 761.86 ft
 North: 1950086.63 ft
 East: 1005755.84 ft
 Station: 456+78.58
 Offset: 60.2 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	760.9	12-inch thick, black SILTY CLAY															
		--TOPSOIL--															
		Very soft to very stiff (2.0P), brown SILTY CLAY LOAM, trace gravel; moist			1	4 10 10	0.16 B	18						9	13 30 24	NP	4
	758.9	--RDR 2--															
		Medium dense, brown, medium to coarse SAND, trace gravel; damp			2	15 15 12	NP	5						10	22 19 15	NP	3
		--RDR 2--															
	756.4	Medium dense to dense, brown, fine to medium SAND, trace to little gravel; damp			3	17 21 15	NP	4									
		--RDR 2-3--															
					4	17 17 12	NP	3									
					5	10 16 14	NP	3									
					6	16 11 10	NP	3									
	746.4	Dense to very dense, brown, medium to coarse SAND, trace to little gravel; damp			7	14 16 17	NP	3									
		--RDR 2--															
					8	15 16 14	NP	3									

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	03-14-2022	Complete Drilling	03-14-2022	While Drilling	▽	DRY	
Drilling Contractor	Wang Testing Services	Drill Rig	21D50A [84%]	At Completion of Drilling	▼	DRY	
Driller	KS&AP	Logger	A. Scifers	Time After Drilling	NA		
Drilling Method	2.25" ID HSA; boring backfilled upon completion			Depth to Water	▼	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG B15-NAW-07

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 767.07 ft
 North: 1950096.69 ft
 East: 1006178.45 ft
 Station: 461+01.30
 Offset: 63.662 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	766.1	12-inch thick, brown SANDY LOAM															
		--TOPSOIL--															
		Medium dense to dense, brown Gravelly SAND; damp			1	17 20 12	NP	6									
		--RDR 2-3--															
					2	11 12 11	NP	4									
	761.6	Medium dense, brown, fine to medium SAND, trace to little gravel; damp			3	12 12 9	NP	12									
		--RDR 2--															
					4	9 13 10	NP	3									
					5	7 10 13	NP	3									
					6	9 15 11	NP	3									
	751.6	Dense, brown, medium to coarse SAND, some gravel; damp			7	19 25 22	NP	3									
		--RDR 2--															
	749.1	Medium dense, brown, medium SAND, little gravel; damp			8	8 13 13	NP	2									
		--RDR 2--															
	747.1	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-14-2022** Complete Drilling **03-14-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



BORING LOG B16-NAW-01

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 772.00 ft
 North: 1950108.19 ft
 East: 1006692.46 ft
 Station: 466+15.42
 Offset: 67.129 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick TOPSOIL															
	771.0	Stiff, black and brown to brown SILTY CLAY, trace gravel; moist --RDR 2-- --trace organic matter--			1	11 9 7	1.00 P	24									
			5		2	9 11 11	2.21 B	28									
	765.6	Dense to very dense, brown, fine to medium SAND, trace to some gravel; damp --RDR 2--			3	9 21 20	NP	3									
			10		4	20 27 20	NP	3									
					5	22 28 23	NP	3									
			15		6	34 36 32	NP	3									
					7	14 15 19	NP	4									
					8	15 18 17	NP	3									
	752.0	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-11-2022** Complete Drilling **03-11-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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BORING LOG B16-NAW-02ALT

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 772.90 ft
 North: 1950098.91 ft
 East: 1006895.85 ft
 Station: 468+18.64
 Offset: 54.672 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick TOPSOIL															
	771.9	Stiff, black SILTY CLAY, trace gravel; damp			1	24 27 20	1.50 P	47									
	771.2	--RDR 2-- Medium dense to dense, brown and gray to gray, fine to medium SAND; trace to some gravel; damp			2	16 15 14	NP	5									
					3	14 22 16	NP	5									
					4	15 13 11	NP	3									
					5	12 15 12	NP	3									
					6	14 16 15	NP	4									
					7	14 21 19	NP	2									
					8	15 16 16	NP	2									
	752.9	Boring terminated at 20.00 ft	20														

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GENERAL NOTES

Begin Drilling **03-11-2022** Complete Drilling **03-11-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B16-NAW-03

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 780.92 ft
 North: 1950184.78 ft
 East: 1007049.69 ft
 Station: 469+73.81
 Offset: 138.128 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
		12-inch thick TOPSOIL																
	779.9	Very stiff, black SILTY CLAY, trace gravel; moist --RDR 2--	13 15 11	X	1	13 15 11	2.50 P	66										
	779.4																	
		Medium dense to dense, brown to brown and gray medium to coarse SAND, trace to little gravel; damp --RDR 2--	11 9 12	X	2	11 9 12	NP	5										
	5																	
			8 18 16	X	3	8 18 16	NP	5										
			27 24 13	X	4	27 24 13	NP	8										
	10																	
			18 22 13	X	5	18 22 13	NP	5										
			19 17 14	X	6	19 17 14	NP	4										
	15																	
			14 14 11	X	7	14 14 11	NP	3										
	762.9	Dense, brown and gray, fine to medium SAND, trace gravel; damp --RDR 2--	14 18 17	X	8	14 18 17	NP	3										
	760.9																	
		Boring terminated at 20.00 ft																

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GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-11-2022** Complete Drilling **03-11-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



BORING LOG B16-NAW-04

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 781.76 ft
 North: 1950190.15 ft
 East: 1007259.59 ft
 Station: 471+83.76
 Offset: 231.147 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick TOPSOIL															
	780.8	Very stiff, black and brown SILTY CLAY, trace gravel; moist	780.2		1	8 12 13	2.46 B	23									
		Medium dense, brown fine SAND, trace gravel; damp	779.0														
		Very stiff, black SILTY CLAY, trace gravel; moist	777.7		2	3 5 18	2.00 P	39									
		Dense to very dense, brown fine SAND, trace to some gravel; damp			3	13 20 28	NP	2									
		--fine to medium grained--			4	14 23 17	NP	2									
					5	16 19 17	NP	2									
					6	22 29 20	NP	3									
					7	11 23 20	NP	4									
					8	25 27 26	NP	3									
	761.8	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-11-2022** Complete Drilling **03-11-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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BORING LOG B16-NAW-05ALT

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 777.74 ft
 North: 1950205.49 ft
 East: 1007406.08 ft
 Station: 473+30.48
 Offset: 364.288 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick black, SANDY LOAM															
	776.7	--TOPSOIL--															
	776.3	Very stiff, black SILTY CLAY to SANDY LOAM, trace gravel; damp			1	10 7 8	2.50 P	37									
	774.7	--RDR 2--															
		Medium dense, brown medium to coarse SAND, little gravel; damp			2	5 4 6	NP	6									
		--RDR 2--															
		Medium dense, brown fine to medium SAND, trace gravel; damp			3	11 9 7	NP	4									
		--RDR 2--															
					4	13 13 10	NP	3									
					5	11 13 10	NP	5									
					6	7 7 6	NP	4									
					7	12 13 12	NP	3									
					8	12 12 12	NP	3									
	757.7	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-11-2022** Complete Drilling **03-11-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **EG**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B16-NAW-06

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 777.27 ft
 North: 1950467.60 ft
 East: 1007395.21 ft
 Station: 473+24.83
 Offset: 525.523 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	776.3	12-inch thick, black SILTY CLAY --TOPSOIL--															
		Soft to medium stiff, brown SILTY CLAY, trace gravel; moist --RDR 2--			1	2 3 3	0.50 P	26									
	773.3	Medium dense, brown, coarse SAND, trace to little gravel; damp --RDR 2-3--			2	3 5 15	0.25 P	28									
					3	13 15 12	NP	5									
					4	8 11 13	NP	4									
					5	7 13 16	NP	4									
					6	11 10 16	NP	5									
	761.8	Medium dense, brown, fine to medium SAND, trace gravel; damp --RDR 2--			7	11 12 11	NP	6									
					8	9 12 11	NP	5									
	757.3	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-05-2022** Complete Drilling **04-05-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D25A [83%]**
 Driller **PH&AG** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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

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BORING LOG B17-NAW-01

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 741.02 ft
 North: 1951241.57 ft
 East: 1006549.03 ft
 Station: 464+93.05
 Offset: 1206.704 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	740.0	12-inch thick, black SILTY CLAY --TOPSOIL-- Stiff to very stiff, black SILTY CLAY, trace gravel and organic matter; moist --RDR 2--			1	8 8 9	1.00 P	11		718.0				9	8 4 5	NP	10
	736.9	Loose to medium dense, brown, fine to coarse SAND, trace gravel; damp to saturated --RDR 2--	5		2	6 5 6	2.00 P	18			Loose to medium dense, brown, medium to coarse SAND, trace gravel; saturated --RDR 2--	25		10	9 7 9	NP	16
					3	5 6 7	NP	4						11	3 3 5	NP	14
			10		4	6 6 10	NP	3						12	5 6 11	NP	7
					5	4 4 4	NP	11		711.0	Boring terminated at 30.00 ft						
					6	4 4 5	NP	10									
	725.5	Loose, brown SANDY GRAVEL; saturated --RDR 2--	15		7	8 4 3	NP	8									
					8	7 5 4	NP	6									
			20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-21-2022** Complete Drilling **03-21-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **13.50 ft**
 At Completion of Drilling ∇ **NA**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



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BORING LOG B17-NAW-02

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 746.74 ft
 North: 1951145.67 ft
 East: 1006714.88 ft
 Station: 466+57.41
 Offset: 1102.278 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)		
		Very soft, black SILTY CLAY, trace gravel --TOPSOIL--																	
	745.2				1	8 7 7	< 0.25 P	23			9				2 1 3		NP	17	
		Loose to medium dense, brown, fine to medium SAND, trace to little gravel; damp --RDR 2--			2	4 3 6		5			10				4 3 3		NP	16	
					3	3 4 3		4			11				9 8 10		NP	10	
					4	5 5 6		5			12				10 6 9		NP	8	
					5	6 9 9		2											
	733.7	Dense, brown and gray SANDY GRAVEL; damp --RDR 2--			6	15 17 14		5											
	731.2	Loose to medium dense, brown, fine to medium SAND, trace to little gravel; damp to saturated --RDR 2--			7	8 5 3		3											
				8	6 2 2		6												
										721.2	Medium dense, brown, coarse SAND, little to some gravel; saturated --RDR 2--								
										716.7	Boring terminated at 30.00 ft								

GENERAL NOTES

Begin Drilling **03-21-2022** Complete Drilling **03-21-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **18.50 ft**
 At Completion of Drilling ∇ **22.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B17-NAW-03

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 744.20 ft
 North: 1950993.98 ft
 East: 1006887.83 ft
 Station: 468+24.61
 Offset: 949.751 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	743.2	12-inch thick, black SILTY CLAY --TOPSOIL--															
		Medium stiff to very stiff, black and brown SILTY CLAY, trace gravel; moist --RDR 2--			1	3 4 5	0.74 B	37						9	9 8 12	NP	18
					2	4 5 7	2.71 B	24				25		10	6 3 3	NP	16
	737.9	Loose to medium dense, brown, fine to coarse SAND, trace to little gravel; damp to saturated --RDR 2--			3	5 4 6	NP	12		718.7	Medium dense to dense, brown, coarse SAND, little gravel; saturated --RDR 2--			11	25 25 15	NP	8
					4	7 8 8	NP	9				30		12	8 7 10	NP	13
					5	10 10 7	NP	9		714.2	Boring terminated at 30.00 ft						
					6	5 5 5	NP	18									
					7	7 8 9	NP	13									
					8	5 6 6	NP	11									

GENERAL NOTES

Begin Drilling **03-21-2022** Complete Drilling **03-21-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **13.50 ft**
 At Completion of Drilling ∇ **19.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B17-NAW-04

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 748.77 ft
 North: 1950891.64 ft
 East: 1007053.31 ft
 Station: 469+79.23
 Offset: 837.323 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	747.8	12-inch thick, black SILTY CLAY to SANDY LOAM --TOPSOIL-- Very stiff, black and brown SILTY CLAY, trace gravel and organic matter; moist --RDR 2--			1	4 5 6	2.00 P	28						9	8 9 8	NP	13
			5		2	4 5 8	3.36 B	24				25		10	11 10 9	NP	20
	742.4	Medium dense, brown SILT, trace gravel; damp --RDR 2--			3	5 6 6	NP	25						11	9 13 11	NP	14
	740.8	Medium dense to dense, brown, fine to coarse SAND, trace to little gravel; damp to saturated --RDR 2--			4	11 11 11	NP	3						12	14 8 12	NP	10
			10		5	17 16 18	NP	1		718.8	Boring terminated at 30.00 ft	30					
			15		6	13 15 12	NP	3				35					
					7	10 13 12	NP	4									
	730.8	Medium dense, brown, coarse SAND, little to some gravel; saturated --RDR 2--			8	8 4 6	NP	11				40					
			20														

GENERAL NOTES

Begin Drilling **03-21-2022** Complete Drilling **03-21-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **21.00 ft**
 At Completion of Drilling ∇ **19.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B17-NAW-06

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 765.13 ft
 North: 1950684.17 ft
 East: 1007379.70 ft
 Station: 473+13.61
 Offset: 704.797 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Medium stiff, black SILTY CLAY, trace gravel; moist --TOPSOIL--															
	763.6	Medium dense to dense, brown, fine to medium SAND, trace to little gravel; damp			1	6 7 11	0.74 B	39						9	9 15 14	NP	4
			5		2	11 12 10	NP	5				25		10	7 7 7	NP	3
					3	12 16 14	NP	4						11	10 10 10	NP	4
			10		4	9 7 8	NP	5				30		12	5 7 8	NP	4
					5	11 8 5	NP	5		735.1	Boring terminated at 30.00 ft						
			15		6	9 12 11	NP	3				35					
					7	6 7 8	NP	4									
			20		8	12 11 10	NP	4				40					

GENERAL NOTES

Begin Drilling **03-18-2022** Complete Drilling **03-18-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA to 10', mud rotary thereafter; boring backfilled upon completion**

WATER LEVEL DATA

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

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



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BORING LOG B17-NAW-07ALT

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 773.20 ft
 North: 1950571.96 ft
 East: 1007550.45 ft
 Station: 474+80.56
 Offset: 706.161 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	772.5	9-inch thick, black SILTY CLAY								752.7								
	772.2	Brown SANDY LOAM									Dense, brown, medium to coarse SAND, trace gravel; damp							
	771.5	Stiff, black SILTY CLAY, trace gravel; moist --RDR 2-3--			1	11 12 8	1.50 P	43			--RDR 2--			9	13 15 15		NP	4
		Medium dense, brown, medium SAND, trace gravel; damp --RDR 2--			2	9 6 6	NP	6						10	8 18 21		NP	4
			5		3	7 9 11	NP	6						11	14 18 19		NP	4
					4	7 7 8	NP	6		745.2	Hard, brown and gray SILTY CLAY LOAM, trace to little gravel; damp to moist --RDR 2--			12	14 13 17	4.50 P		15
	762.7	Medium dense, brown, fine SAND to LOAM, trace gravel; damp --RDR 2--			5	10 10 10	NP	7		743.2	Boring terminated at 30.00 ft							
	760.2	Medium dense to dense, brown, fine to medium SAND, trace gravel; damp --RDR 2--			6	7 10 10	NP	5										
			15		7	14 15 16	NP	5										
					8	8 12 14	NP	5										
			20															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-18-2022** Complete Drilling **03-18-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA to 10', mud rotary thereafter; boring backfilled upon completion**

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

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

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG B17-NAW-08

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 771.37 ft
 North: 1950454.90 ft
 East: 1007710.26 ft
 Station: 476+38.52
 Offset: 752.342 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	770.4	12-inch thick, brown SILTY CLAY															
		--TOPSOIL--															
		Very stiff, gray SILTY CLAY, trace gravel; moist			1	6 4 5	3.20 B	28						9	15 14 17	NP	4
	768.4	Medium dense, brown SILT, trace gravel; damp			2	3 5 5	NP	22			--possible cobbles--	25		10	50 3	NP	5
	765.1	Medium dense to dense, brown, fine to medium SAND, trace to little gravel; damp			3	13 15 15	NP	5						11	47 11 9	NP	5
					4	1 6 20	NP	4		743.4	Medium dense, brown, coarse SAND, trace gravel; saturated			12	7 6 5	NP	9
					5	20 44 34	NP	3		741.4	Boring terminated at 30.00 ft						
	760.9	Very dense, gray white Gravelly SANDY LOAM; damp			6	28 23 25	NP	2									
	758.4	Medium dense to very dense, brown, fine to medium SAND, trace to little gravel; damp			7	12 17 28	NP	3									
					8	20 21 25	NP	3									

GENERAL NOTES

Begin Drilling **03-18-2022** Complete Drilling **03-18-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA to 10', mud rotary thereafter; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **28.50 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B17-NAW-09

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 771.53 ft
 North: 1950342.88 ft
 East: 1007883.56 ft
 Station: 478+11.73
 Offset: 858.812 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	771.15	15-inch thick, dark brown SILTY CLAY --TOPSOIL-- Stiff, dark brown SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp			1	2 2 4	1.00 P	26									
	768.5	--FILL-- --RDR 2-- Loose, brown and gray, fine to medium SAND; damp to moist --FILL-- --RDR 2--			2	1 2 5	NP	9		748.5	Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp to moist --RDR 2--			9	10 10 10	NP	7
	766.0	Medium dense, brown Gravelly SAND, trace concrete fragments; damp --FILL-- --RDR 2-3-- --rig chatter--			3	10 9 11	NP	5			--wet spoon recovery; possible sand seam--			10	6 8 12	2.50 P	16
					4	10 10 14	NP	3						11	6 8 8	2.21 B	16
	761.0	Dense, brown, fine to medium SAND, trace concrete fragments; damp --FILL-- --RDR 3--			5	8 20 16	NP	4						12	4 5 8	2.95 B	14
	758.5	Medium dense, brown Gravelly SAND; damp to moist --RDR 2--			6	8 7 8	NP	4		741.5	Boring terminated at 30.00 ft						
					7	9 14 15	NP	3									
					8	15 10 12	NP	4									

GENERAL NOTES

Begin Drilling **04-13-2022** Complete Drilling **04-13-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoT[92%]**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **26.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B17-NAW-10

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 771.96 ft
 North: 1950374.91 ft
 East: 1008114.90 ft
 Station: 480+41.85
 Offset: 1087.446 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	771.3	8-inch thick, black SILTY CLAY LOAM --TOPSOIL--			1	4 5 6	4.50 P	18			--RDR 2--			9	3 2 2	NP	13
		Medium stiff to hard, brown and black SILTY CLAY LOAM to SILTY CLAY, trace gravel; damp to moist			2	3 3 5	4.50 P	28		749.0	Loose to medium dense, brown, SANDY LOAM to coarse SAND, trace gravel; saturated			10	1 2 2	NP	19
		--FILL-- --RDR 2-3--	5		3	2 3 3	2.05 B	27			--RDR 2--	25		11	3 3 4	NP	18
		--trace brick fragments--	10		4	2 3 4	0.50 P	51		742.0		30		12	4 8 8	NP	15
											Boring terminated at 30.00 ft						
	760.2	Medium dense, gray and white CRUSHED CONCRETE; damp			5	3 4 5	NR										
		--FILL-- --RDR 2-3--			6	10 13 8	NP	2				35					
	756.5	Loose, brown SANDY LOAM, trace brick fragments; damp			7	2 3 3	NP	18									
		--FILL-- --RDR 2--			8	4 7 5	NP	7				40					
	754.0	Loose to medium dense, brown Gravelly SAND, trace brick fragments; damp to moist															

GENERAL NOTES

Begin Drilling **04-08-2022** Complete Drilling **04-08-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **26.00 ft**
 At Completion of Drilling ∇ **30.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B17-NAW-11

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 777.86 ft
 North: 1950412.72 ft
 East: 1008268.80 ft
 Station: 481+96.33
 Offset: 1245.638 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	777.2	8-inch thick, black SILTY CLAY --TOPSOIL--								757.4							
		Hard, brown SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--		X	1	6 5 6	4.00 P	19			Medium dense to dense, brown, fine to medium SAND, trace brick fragments; damp --FILL-- --RDR 2--		X	9	9 15 19	NP	4
	774.9	Medium dense to dense, brown Gravelly SAND to SANDY GRAVEL, trace concrete and brick fragments; damp --FILL-- --RDR 2-3-- --rig chatter-- --possible cobbles--		X	2	3 9 9	NP	5					X	10	11 11 17	NP	6
				X	3	7 11 15	NP	2		752.4	Medium dense, brown, fine to coarse SAND, trace gravel; damp to saturated --RDR 2--		X	11	7 11 12	NP	13
				X	4	9 20 12	NP	5					X	12	6 7 14	NP	16
				X	5	16 16 12	NP	2		747.9	Boring terminated at 30.00 ft						
				X	6	9 9 13	NP	3									
				X	7	8 15 11	NP	8									
				X	8	9 10 15	NP	4									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-08-2022** Complete Drilling **04-08-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **29.00 ft**
 At Completion of Drilling ∇ **30.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B17-NAW-12

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WEI Job No.: 121-03-01

Client: Gannett Fleming
Project: US Route 20 From Randall Rd to Shales Parkway
Location: Elgin, Illinois

Datum: NAVD 88
Elevation: 787.75 ft
North: 1950447.34 ft
East: 1008468.97 ft
Station: 483+97.02
Offset: 1447.377 LT

Table with columns for Profile, Elevation, SOIL AND ROCK DESCRIPTION, Depth, Sample Type recovery, Sample No., SPT Values, Qu, Moisture Content, and corresponding values for two borehole profiles.

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22

GENERAL NOTES

Begin Drilling 04-06-2022 Complete Drilling 04-06-2022
Drilling Contractor Wang Testing Services Drill Rig 21GeoA[96%]
Driller AG&CB Logger M. Rojo Checked by CLM
Drilling Method 3.25" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling DRY
At Completion of Drilling DRY
Time After Drilling NA
Depth to Water NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG B17-NAW-13

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 787.54 ft
 North: 1950483.71 ft
 East: 1008666.25 ft
 Station: 485+94.84
 Offset: 1647.138 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	787.0	6-inch thick, black SILTY CLAY --TOPSOIL-- Stiff, brown SILTY CLAY, trace gravel; damp			1	2 2 2	1.00 P	27						9	10 11 13	NP	3
	784.5	Medium dense to dense, brown Gravelly SAND to SANDY GRAVEL, some concrete fragments; damp			2	8 12 10	NP	6						10	7 9 12	NP	3
		--rig chatter; possible construction debris--			3	13 17 18	NP							11	6 10 14	NP	3
		--rig chatter-- --possible cobbles--			4	12 17 22	NP	3						12	14 16 12	NP	4
		--rig chatter; possible construction debris--			5	11 18 17	NP	2									
	774.5	Medium dense to dense, brown, fine to medium SAND, trace to little gravel and concrete fragments; damp			6	14 14 17	NP	3									
		--rig chatter-- --possible cobbles--			7	5 6 10	NP	3									
		--rig chatter-- --possible cobbles--			8	11 14 12	NP	3									
		Boring terminated at 30.00 ft															

GENERAL NOTES

Begin Drilling **04-06-2022** Complete Drilling **04-06-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B17-NAW-14

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 787.53 ft
 North: 1950454.02 ft
 East: 1008859.38 ft
 Station: 487+87.49
 Offset: 1827.236 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	787.1	15-inch thick, black SILTY CLAY --TOPSOIL-- Stiff, brown SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp			1	2 2 6	1.00 P	24		767.0	Medium dense, brown, fine SAND, trace gravel; damp --RDR 2-3--			9	8 6 17	NP	3
	784.5	--FILL-- --RDR 2-- Medium dense, brown, fine to medium SAND, trace gravel; damp			2	5 6 7	NP	8				25		10	12 13 12	NP	3
		--FILL-- --RDR 2--			3	10 10 8	NP	6			--rig chatter-- --possible cobbles--			11	9 11 14	NP	3
	779.5	--rig chatter; possible cobbles and construction debris-- Loose to medium dense, brown Gravelly SAND, trace brick and concrete fragments; damp			4	7 4 5	NP	5		759.5	Brown SILT, trace gravel; moist --RDR 2--			12	10 14 15	NP	9
		--FILL-- --RDR 2-3--			5	7 7 8	NP	3		758.7	Medium dense, brown, fine to medium SAND, trace gravel; damp to moist			30			
		--FILL-- --RDR 2-3--			6	12 17 17	NP			757.5	Boring terminated at 30.00 ft						
	774.5	Dense, brown, fine to medium SAND, trace gravel, brick and concrete fragments; damp			7	7 14 25	NP	3									
		--FILL-- --RDR 2-3--			8	14 21 20	NP	3									
		--rig chatter-- --possible cobbles--															

GENERAL NOTES

Begin Drilling **04-06-2022** Complete Drilling **04-06-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&CB** Logger **M. Rojo** Checked by **CLM**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 781.07 ft
 North: 1950388.95 ft
 East: 1009032.50 ft
 Station: 489+59.57
 Offset: 1984.138 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
780.6	6-inch thick, black SILTY CLAY --TOPSOIL-- Medium dense, brown, fine to medium SAND, trace gravel; damp --FILL-- --RDR 2--	0 - 1	✓	1	9 15 8	NP	5	780.6	6-inch thick, black SILTY CLAY --TOPSOIL-- Medium dense, brown, fine to medium SAND, trace gravel; damp --FILL-- --RDR 2--	0 - 1	✓	9	11 14 24	NP	5
773.1	--trace concrete fragments-- --rig chatter--	1 - 5	✓	2	4 6 8	NP	6	758.1	Medium dense, brown SANDY GRAVEL; wet --RDR 2--	5 - 25	✓	10	8 7 6	NP	8
773.1	Very dense, brown and gray SANDY GRAVEL, trace concrete fragments; damp --FILL-- --RDR 3--	5 - 10	✓	3	11 10 12	NP	4	755.6	Medium dense, brown, fine SAND, trace gravel; saturated	10 - 15	✓	11	7 14 13	NP	18
770.6	Medium dense, brown and gray, fine to medium SAND, trace gravel and concrete fragments; damp --RDR 2--	10 - 15	✓	4	15 25 28	NP	3	754.7	Medium dense, gray SILT, trace gravel; wet --RDR 2--	15 - 30	✓	12	7 10 11	NP	16
770.6	Medium dense, brown and gray, fine to medium SAND, trace gravel and concrete fragments; damp --RDR 2--	15 - 20	✓	5	7 12 28	NP	4	751.1	Boring terminated at 30.00 ft	30 - 40	✓	13			
765.6	Medium dense to dense, brown, fine SAND to LOAM, trace gravel; damp --RDR 2--	20 - 30	✓	6	10 12 13	NP	4				✓	14			
765.6	Medium dense to dense, brown, fine SAND to LOAM, trace gravel; damp --RDR 2--	30 - 40	✓	7	11 15 10	NP	5				✓	15			
		40 - 45	✓	8	7 10 13	NP	4				✓	16			

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-05-2022** Complete Drilling **04-05-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&CR** Logger **M. Rojo** Checked by **CLM**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

While Drilling **25.50 ft**
 At Completion of Drilling **26.00 ft**
 Time After Drilling **NA**
 Depth to Water **NA**

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

WANGENGINC 1210301.GPJ WANGENG.GDT 9/1/22



BORING LOG B17-NAW-16

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 781.40 ft
 North: 1950314.88 ft
 East: 1009243.18 ft
 Station: 491+70.23
 Offset: 2182.516 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	781.0	5-inch thick, black SILTY CLAY --TOPSOIL-- Stiff, brown and dark brown SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			1	2 1 2	1.50 P	20		760.9	Loose to medium dense, brown, fine SAND, trace concrete fragments; damp --FILL-- --RDR 2--			9	13 9 9	NP	9
			5		2	2 4 8	1.00 P	19				25		10	5 5 3	NP	10
					3	2 2 4	1.00 P	22		755.9	Loose to medium dense, brown, fine to coarse SAND, trace gravel; saturated --RDR 2--			11	4 4 5	NP	17
	773.4	Loose to medium dense, brown and gray Gravelly SAND to SANDY GRAVEL; damp to moist --FILL-- --RDR 2-3-- --trace brick fragments--			4	3 4 3	NP							12	4 5 6	NP	17
					5	7 6 9	NP	10		751.4	Boring terminated at 30.00 ft						
					6	9 10 11	NP	9									
					7	5 3 4	NP	14									
					8	3 3 3	NP	14									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-05-2022** Complete Drilling **04-05-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&CR** Logger **M. Rojo** Checked by **CLM**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **26.00 ft**
 At Completion of Drilling ∇ **28.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B17-NAW-17

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 774.03 ft
 North: 1950207.29 ft
 East: 1009384.34 ft
 Station: 493+08.52
 Offset: 2311.855 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	773.3	9-inch thick, black SILTY CLAY --TOPSOIL--								753.5	Medium dense, brown SANDY GRAVEL; wet						
		Dense to very dense, brown and gray SANDY GRAVEL to Gravelly SAND, some brick and concrete fragments; damp			1	8 18 20	NP	5			--RDR 2-3--			9	11 14 13	NP	10
		--FILL-- --RDR 2-4-- --rig chatter--			2	10 14 30	NP	4		751.0	Medium dense, brown, fine to medium SAND; wet			10	8 12 12	NP	11
			5		3	17 50/4"	NP	5			--RDR 2--			11	7 9 12	NP	15
		--hard drilling and scraping sound--			4	12 30 32	NP	4		748.5	Medium dense, gray SILT, trace gravel; wet			12	8 10 14	NP	17
		--hard drilling and scraping sound--			5	24 28 24	NP	4		744.0	Boring terminated at 30.00 ft						
	761.0	Medium dense to dense, brown, fine to medium SAND, trace to little gravel; damp to saturated			6	9 18 22	NP	9									
		--RDR 2-3--			7	6 10 11	NP	9									
		--rig chatter; possible cobbles--			8	6 10 12	NP	15									

GENERAL NOTES

Begin Drilling **04-05-2022** Complete Drilling **04-05-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoA[96%]**
 Driller **AG&CR** Logger **M. Rojo** Checked by **CLM**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **18.00 ft**
 At Completion of Drilling ∇ **23.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 772.61 ft
 North: 1950073.07 ft
 East: 1009519.83 ft
 Station: 494+41.90
 Offset: 2441.928 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	772.0	8-inch thick, black SILTY CLAY LOAM															
	771.4	--TOPSOIL--															
		Medium stiff (0.75P), black SILTY CLAY LOAM, trace gravel; moist			1	8 10 14	NP	5						9	8 11 14	NP	25
		--FILL--															
		Medium dense to dense, brown SANDY GRAVEL to Gravelly SAND; damp			2	10 15 25	NP	4				25		10	3 7 12	NP	20
		--FILL--															
		--RDR 3-4--			5												
		--rig chatter--															
	766.0	Medium dense to dense, brown, fine to medium SAND, trace to little gravel; damp to saturated			3	18 25 21	NP	6		747.1	Very stiff, gray SILTY CLAY LOAM, trace gravel; damp			11	5 13 13	2.75 P	14
		--RDR 2-3--									--RDR 2--						
					4	7 11 21	NP	13						12	3 6 9	2.87 B	17
					5	10 12 17	NP	7		742.6	Boring terminated at 30.00 ft						
					6	9 11 26	NP	4									
		--rig chatter--															
		--possible cobbles--			7	8 15 13	NP	9									
					8	9 14 19	NP	22									

GENERAL NOTES

Begin Drilling **04-07-2022** Complete Drilling **04-07-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoT[92%]**
 Driller **AG&CB** Logger **D. You** Checked by **CLM**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **16.00 ft**
 At Completion of Drilling ∇ **26.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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

WANGENG\1210301.GPJ WANGENG.GDT 9/1/22



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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 767.87 ft
 North: 1949916.11 ft
 East: 1009655.55 ft
 Station: 495+75.15
 Offset: 2580.839 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Medium stiff (0.50P), black SILTY CLAY LOAM, trace gravel; moist															
	766.3	--FILL-- Medium dense to dense, brown SANDY GRAVEL; damp			1	8 11 12	NP	5		746.6	Medium dense, gray SILTY LOAM to SILT, trace gravel; saturated			9	5 6 9	NP	22
		--RDR 2-3--									--RDR 2--						
		--rig chatter--	5		2	13 20 29	NP					25		10	3 7 9	NP	15
	762.4	Medium dense, brown, fine to coarse SAND, trace to little gravel; damp to saturated			3	6 7 12	NP	8		742.4	Very stiff, gray SILTY CLAY LOAM, trace gravel; damp			11	4 5 8	3.03 B	16
		--RDR 2--									--RDR 2--						
			10		4	6 10 10	NP	7		738.9	Boring terminated at 29.00 ft			12	50/5"	2.00 P	
					5	4 7 8	NP	15									
	753.7	Medium dense, brown SANDY GRAVEL; saturated	15		6	9 12 10	NP	8									
		--RDR 2-3-- --sand heaving in augers--															
	751.3	Medium dense, brown, fine to medium SAND, trace gravel; saturated			7	8 13 16	NP	18									
		--RDR 2--															
			20		8	6 11 16	NP	20									

GENERAL NOTES

Begin Drilling **04-07-2022** Complete Drilling **04-07-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoT[92%]**
 Driller **AG&CB** Logger **D. You** Checked by **CLM**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **11.00 ft**
 At Completion of Drilling ∇ **23.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 765.40 ft
 North: 1949773.33 ft
 East: 1009795.60 ft
 Station: 497+12.95
 Offset: 2731.318 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	764.9	6-inch thick, black SILTY CLAY LOAM									SILT to SILTY LOAM, trace gravel; saturated						
	764.1	--TOPSOIL-- Medium stiff, black SILTY CLAY LOAM, trace gravel; moist			1	8 12 11	0.75 P	50			--RDR 2-- --sand heaving in augers--			9	4 4 4	NP	12
		--FILL-- Medium dense, brown SANDY GRAVEL to Gravelly SAND; damp to saturated			2	6 8 10	NP	5						10	4 5 10	NP	21
		--FILL-- --RDR 2--			3	5 8 9	NP	8						11	4 6 8	1.97 B	15
					4	7 9 6	NP	8						12	4 6 10	3.53 B	14
	754.9	--sand heaving in augers-- Loose to medium dense, brown, fine to coarse SAND, trace to little gravel; saturated			5	4 4 5	NP	12									
		--FILL-- --RDR 2--			6	2 3 6	NP	18									
		--sand heaving in augers--			7	3 3 3	NP	18									
					8	1 10 14	NP	17									
	745.7	Loose to medium dense, brown									Boring terminated at 30.00 ft						

GENERAL NOTES

Begin Drilling **04-07-2022** Complete Drilling **04-07-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21GeoT[92%]**
 Driller **AG&CB** Logger **D. You** Checked by **CLM**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **8.50 ft**
 At Completion of Drilling ∇ **20.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



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BORING LOG B17-NAW-20ALT

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 765.40 ft
 North: 1949773.33 ft
 East: 1009795.60 ft
 Station: 497+12.95
 Offset: 2731.318 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Medium stiff, black SILTY CLAY, trace gravel; moist															
	763.9	Medium dense, brown SANDY GRAVEL; moist to saturated --RDR 2--			1	6 8 10	0.57 B										
			5		2	7 9 10	NP										
					3	12 14 13	NP										
		--sand and gravel heaving into augers; added water--			4	7 7 8	NP										
	754.9	Medium dense, brown, fine to coarse SAND, trace to little gravel; saturated --RDR 2--			5	6 7 7	NP										
		--hard drilling and sand heaving into augers--			6	8 6 8	NP										
	750.4	Boring terminated at 15.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-28-2022** Complete Drilling **03-29-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **18D25A [85%]**
 Driller **PH&AG** Logger **D. You** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **8.50 ft**
 At Completion of Drilling \blacktriangledown **7.00 ft**
 Time After Drilling **NA**
 Depth to Water \blacktriangledown **NA**

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



BORING LOG B17-NAW-21

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 762.64 ft
 North: 1949648.22 ft
 East: 1009951.74 ft
 Station: 498+67.11
 Offset: 2901.246 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	762.2	5-inch thick, black SILTY CLAY --TOPSOIL-- Stiff, brown and black SILTY CLAY to SILTY CLAY LOAM, trace to some gravel; damp to wet			1	3 3 3	1.23 B										
		--FILL-- --RDR 2-- --possible sand lens; wet spoon recovery--			2	3 4 3	1.00 P										
	757.1	Loose, brown SANDY GRAVEL; saturated			3	9 5 3	NP			740.6	Brown SANDY GRAVEL; saturated			9	7 13 23		NP
					4	7 6 3	NP			739.6	Dense, brown, fine to coarse SAND, trace gravel; saturated			10	24 19 11		NP
					5	3 3 6	NP							11	7 14 28		NP
		--heaving sand at 11 feet-- Loose, brown, medium to coarse SAND, trace gravel; saturated			6	8 12 11	NP							12	12 16 21		NP
	748.8	Medium dense, brown SANDY GRAVEL; saturated			7	8 13 16	NP										
	747.1	--heaving sand at 16 feet-- Medium dense to dense, brown, fine to coarse SAND, trace to little gravel; saturated			8	10 12 13	NP										
										732.6	Boring terminated at 30.00 ft						

GENERAL NOTES

Begin Drilling **03-28-2022** Complete Drilling **03-28-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **18D25A [85%]**
 Driller **PH&AG** Logger **D. You** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **3.50 ft**
 At Completion of Drilling ∇ **7.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B18-NAW-01

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 779.40 ft
 North: 1949712.22 ft
 East: 1009058.18 ft
 Station: 489+74.67
 Offset: 2008.254 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	779.14	14-inch thick, black SANDY LOAM															
	778.4	--TOPSOIL--															
	777.4	8-inch thick, black SILTY CLAY LOAM			1	9 9 6	NP	9									
		Black LOAM to SANDY LOAM, little gravel; damp															
		Medium dense, brown, fine to medium SAND, trace to some gravel; damp			2	14 13 15	NP	5									
		--RDR 2-4--	5														
		--rig chatter; possible cobbles--															
					3	12 12 15	NP	4									
					4	7 9 10	NP	5									
	767.7	Medium dense to dense, brown and gray Gravelly SAND; damp			5	15 16 13	NR										
		--RDR 2--															
					6	7 14 20	NP	4									
	763.9	Medium dense, brown, medium SAND, trace to little gravel; damp			7	9 10 14	NP	5									
		--RDR 2--															
					8	12 12 10	NP	3									
	759.4	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **04-04-2022** Complete Drilling **04-04-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **18D25A [85%]**
 Driller **PH&AG** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B18-NAW-02

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 774.24 ft
 North: 1949670.26 ft
 East: 1009260.37 ft
 Station: 491+76.38
 Offset: 2215.586 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Medium stiff, black SILTY CLAY, trace gravel; moist --RDR 2--															
	772.7	Medium dense, brown Gravelly SAND; damp --RDR 3--			1	11 10 11	0.57 B	46									
	771.2	Medium dense to dense, brown, medium to coarse SAND, trace to little gravel; damp to saturated --RDR 2-3--			2	7 7 17	NP	7									
					3	12 16 15	NP	5									
					4	12 10 9	NP	5									
					5	9 10 14	NP	6									
					6	10 14 24	NP	6									
	758.7	Medium dense, brown, coarse SAND, trace gravel; moist to saturated --RDR 2-3--			7	15 13 14	NP	5									
					8	10 7 9	NP	11									
	754.2	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-24-2022** Complete Drilling **03-24-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **18.50 ft**
 At Completion of Drilling ∇ **18.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B18-NAW-03

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 771.21 ft
 North: 1949606.98 ft
 East: 1009486.67 ft
 Station: 494+01.46
 Offset: 2448.506 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	770.2	12-inch thick, black SILTY CLAY --TOPSOIL-- Stiff to very stiff, black to brown CLAY to SILTY CLAY, trace gravel; moist --RDR 2--			1	2 3 5	1.39 B	28									
					2	5 5 6	2.05 B	27									
	765.7	Very soft to medium stiff, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace to little gravel; moist --RDR 2--			3	3 3 3	0.82 B	29									
					4	2 1 2	0.16 B	34									
					5	5 5 5	< 0.25 P	28									
	757.5	Medium dense, brown and gray SANDY GRAVEL; moist --RDR 2--			6	14 14 14	NP	9									
	755.7	Medium dense, brown and gray, medium to coarse SAND, trace to little gravel; saturated --RDR 2--			7	9 10 8	NP	22									
					8	12 10 7	NP	12									
	751.2	Boring terminated at 20.00 ft	20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-25-2022** Complete Drilling **03-25-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **16.00 ft**
 At Completion of Drilling ∇ **15.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B18-NAW-04

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 768.61 ft
 North: 1949538.04 ft
 East: 1009691.97 ft
 Station: 496+05.66
 Offset: 2663.033 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Stiff, black SILTY CLAY, trace organic matter; damp --TOPSOIL--			1	4 5 6	1.00 P	51									
	765.6	Stiff to very stiff, black to brown SILTY CLAY, trace gravel; moist --RDR 2--			2	3 5 7	2.21 B	34									
					3	4 3 5	2.00 P	27									
	760.6	Medium dense, brown SANDY LOA to LOAM; damp to moist --RDR 2--			4	7 8 12	NP	12									
	758.1	Medium dense, brown to gray, fine to coarse SAND, trace to little gravel; saturated --RDR 2-3-- --silt seam--			5	7 8 9	NP	12									
					6	7 7 6	NP	18									
					7	8 6 6	NP	12									
					8	5 3 7	NP	13									
	748.6	Boring terminated at 20.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-25-2022** Complete Drilling **03-25-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



BORING LOG B18-NAW-05

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 766.02 ft
 North: 1949458.57 ft
 East: 1009899.92 ft
 Station: 498+13.01
 Offset: 2884.019 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	765.0	12-inch thick, black SILTY CLAY															
		--TOPSOIL--															
		Stiff, black and brown SILTY CLAY, trace gravel, some organic matter; moist			1	4 9 11	1.15 B	66									
	763.0	--RDR 2--															
		Medium dense, brown SANDY GRAVEL; damp			2	15 12 11	NP	6									
		--RDR 2-3--															
	760.5	Medium dense to dense, brown, fine to coarse SAND, trace to little gravel; damp to saturated			3	14 17 14	NP	6									
		--RDR 2-3--															
					4	11 9 10	NP	7									
					5	5 8 9	NP	12									
					6	7 5 9	NP	12									
					7	6 9 5	NP	12									
					8	6 7 5	NP	14									
	746.0	Boring terminated at 20.00 ft	20														

GENERAL NOTES

Begin Drilling **03-25-2022** Complete Drilling **03-25-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B20-NAW-01

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
Project **US Route 20 From Randall Rd to Shales Parkway**
Location **Elgin, Illinois**

Datum: NAVD 88
Elevation: 823.33 ft
North: 1950821.59 ft
East: 990260.66 ft
Station: 301+25.26
Offset: 225.362 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	822.9	5-inch thick, black SILTY CLAY LOAM															
	822.3	--TOPSOIL--															
		Brown SILTY CLAY LOAM			1	12 15 18	NP	5			--possible cobbles--			9	50/3"	NP	
		--FILL--															
		Dense, brown SANDY GRAVEL; damp															
	819.6	--FILL--															
		--RDR 2-3--			2	18 16 15	NP	5						10	15 14 23	NP	18
		Dense, brown, fine to medium SAND, some gravel; damp															
	817.8	--FILL--															
		--RDR 4--															
	817.8	Tan GRAVEL; damp															
	817.1	--FILL--			3	19 13 15	NP	4									
		Medium dense to very dense, brown, fine to medium SAND, little to some gravel; damp															
		--FILL--															
		--RDR 2-4--			4	8 24 46	NP	14									
	811.8	Medium dense to very dense, brown and black SANDY GRAVEL to Gravelly SAND; damp to saturated			5	21	NP	3									
		--RDR 2-4--				50/4"											
					6	21 35 31	NP	5									
					7	19 20 21	NP	6									
					8	12 11 12	NP	11									

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	04-13-2022	Complete Drilling	04-13-2022	While Drilling	▽	17.50 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	21D50A [84%]	At Completion of Drilling	▼	20.50 ft	
Driller	KS&AP	Logger	D. You	Time After Drilling	NA		
Drilling Method	2.25" ID HSA; boring backfilled upon completion			Depth to Water	▼	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

WANGENG\1210301.GPJ WANGENG.GDT 9/1/22



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BORING LOG B20-NAW-02

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 828.07 ft
 North: 1950828.30 ft
 East: 990454.09 ft
 Station: 303+04.02
 Offset: 173.061 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	827.75	5-inch thick, black SILTY CLAY LOAM															
		--TOPSOIL--															
		--3-inch thick, gray Gravelly SAND; damp--			1	5 4 4	1.89 B	17						9	23 23 36	NP	5
		Soft to very stiff, brown SILTY CLAY LOAM to SILTY CLAY, trace gravel; damp to wet															
		--FILL--			2	4 3 3	2.21 B	26				25		10	14 9 10	NP	10
		--RDR 2--															
					3	2 3 4	0.90 B	25						11	19 16 15	NP	7
	819.1	Loose, brown, fine to medium SAND, trace gravel; moist			4	2 3 4	NP	14						12	10 17 17	NP	7
		--FILL--															
	817.6	Medium dense to dense, brown Gravelly SAND; damp			5	23 23 18	NP	4									
		--RDR 2--															
					6	23 23 26	NP	5									
	812.6	--rig chatter--															
		Dense, brown, fine to coarse SAND, some gravel; damp			7	14 18 24	NP	4									
		--RDR 3--															
	810.1	Medium dense to dense, brown Gravelly SAND to SANDY GRAVEL; damp to saturated			8	20 19 26	NP	3									
		--RDR 2-4--															

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	04-13-2022	Complete Drilling	04-13-2022	While Drilling	▽	23.50 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	21D50A [84%]	At Completion of Drilling	▼	24.30 ft	
Driller	KS&AP	Logger	D. You	Time After Drilling	NA		
Drilling Method	2.25" ID HSA; boring backfilled upon completion			Depth to Water	▼	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG B20-NAW-03

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 821.89 ft
 North: 1950820.37 ft
 East: 990650.57 ft
 Station: 304+92.68
 Offset: 139.613 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	821.1	9-inch thick, black SILTY CLAY LOAM --TOPSOIL--			1	4 4 6	2.54 B	21						9	11 9 6		
		Soft to very stiff, brown SILTY CLAY to SILTY CLAY LOAM, trace to some gravel; damp to moist			2	3 4 4	1.98 B	30				25		10	13 14 13		
		--FILL-- --RDR 2--	5		3	3 6 11	0.25 P	18		796.4	Dense, brown, medium to coarse SAND, trace to little gravel; saturated			11	14 12 18		
	813.9	Dense, brown SANDY GRAVEL to Gravelly SAND; damp			4	16 21 15	NP	9		792.6	--heaving sand in augers--			12	14 17 16		
		--FILL-- --RDR 2-3--	10		5	13 15 19	NP	7		791.9	Brown GRAVEL; saturated						
					6	10 13 14	NP	15			Boring terminated at 30.00 ft						
	808.9	Medium dense, brown, fine to medium SAND, some gravel; moist			7	16 32 12	NP	8									
		--RDR 2--	15		8	10 9 12	NP										
	806.4	Dense, brown SANDY GRAVEL; damp															
		--RDR 2-4--															
	803.9	Medium dense, brown SANDY GRAVEL; saturated															
		--RDR 2--	20														

GENERAL NOTES

Begin Drilling **04-13-2022** Complete Drilling **04-13-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **D. You** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **18.50 ft**
 At Completion of Drilling ∇ **NA**
 Time After Drilling **24 hours**
 Depth to Water ∇ **20.50 ft**

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



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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 821.33 ft
 North: 1950817.77 ft
 East: 990852.90 ft
 Station: 306+89.47
 Offset: 107.568 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	820.7	8-inch thick, black SILTY CLAY LOAM --TOPSOIL--								800.8	Medium dense, brown SANDY GRAVEL, some silt; saturated --RDR 3--						
		Soft to very stiff, black and brown SILTY CLAY LOAM to CLAY LOAM, trace to little gravel; damp to moist --FILL-- --RDR 2--	1	X	1	6 8 5	0.25 B	17				9	X	9	14 15 13	NP	14
			2	X	2	4 5 7	1.75 P	32		798.3	Medium dense, brown, medium to coarse SAND, trace gravel; saturated --RDR 2--		X	10	7 8 15	NP	17
			3	X	3	4 4 5	2.00 P	24		796.3	Boring terminated at 25.00 ft						
	813.3	Very soft to soft, reddish brown SILTY CLAY LOAM, little gravel; moist to wet --FILL-- --RDR 2--	4	X	4	3 2 2	0.49 B	27				25					
			5	X	5	11 7 4	< 0.25 P	38									
	807.6	Medium dense, brown SANDY GRAVEL; damp to moist --FILL-- --RDR 2--	6	X	6	3 4 7	NP	13									
	805.8	Medium dense, brown SILTY LOAM, some gravel; saturated --RDR 2--	7	X	7	5 4 8	NP	25									
			8	X	8	10 9 13	NP	16									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-14-2022** Complete Drilling **04-14-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **D. You** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **11.00 ft**
 At Completion of Drilling ∇ **18.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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



BORING LOG B20-NAW-05

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 833.15 ft
 North: 1950814.00 ft
 East: 991052.03 ft
 Station: 308+83.21
 Offset: 78.742 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	832.2	12-inch thick, black SILTY CLAY LOAM --TOPSOIL-- Very soft to medium stiff, black and brown SILTY CLAY LOAM, trace gravel; moist --FILL-- --RDR 2--			1	1 3 1	< 0.25 P	27									
			5		2	1 2 3	0.57 B	21									
	827.7	--rig chatter-- Dense to very dense, brown, gray and reddish brown SANDY GRAVEL; damp --FILL-- --RDR 2-4--			3	23 20 19	NP	9									
	823.2	--hard slow drilling; possible sewer line--	10		4	15 28	NP	4									
		Boring terminated at 10.00 ft				50/4"											

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-14-2022** Complete Drilling **04-14-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **D. You** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

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

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



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BORING LOG B20-NAW-05B

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 833.15 ft
 North: 1950814.00 ft
 East: 991052.03 ft
 Station: 308+83.21
 Offset: 78.742 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	832.3	10-inch thick CONCRETE --PAVEMENT--															
		Very loose to medium dense, brown and gray, fine to coarse SAND, trace to some gravel; damp			1	15 14 10	NP	5			--rig chatter-- --possible cobbles--			9	35 39 36	NP	4
		--FILL-- --RDR 2--			2	7 4 6	NP	5		809.2	Very dense, brown, fine to medium SAND, trace gravel; damp	25		10	26 28 31	NP	12
					3	6 5 4	NP	4		807.7	Medium dense to very dense, brown SANDY GRAVEL; damp to saturated			11	42 33 34	NP	5
					4	1 1 1	NP	5			--RDR 4--			12	15 17 18	NP	9
					5	21 8 6	NP	7			--RDR 2-4--			13	15 11 7	NP	6
	820.2	Very dense, brown SANDY GRAVEL to Gravelly SAND; damp			6	25 23 28	NP	5			--rig chatter-- --possible cobbles--			14	14 19 20	NP	10
					7	24 25 46	NP	6									
					8	20 20 39	NP	5									
										798.2	Boring terminated at 35.00 ft	35					

GENERAL NOTES

Begin Drilling **04-18-2022** Complete Drilling **04-18-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **D. You** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **28.50 ft**
 At Completion of Drilling **27.00 ft**
 Time After Drilling **NA**
 Depth to Water **NA**

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



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BORING LOG B20-NAW-06

WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 829.98 ft
 North: 1950798.86 ft
 East: 991254.58 ft
 Station: 310+83.82
 Offset: 69.11 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	829.3	8-inch thick CONCRETE --PAVEMENT--								809.5	Medium dense, brown, fine to medium SAND, trace gravel; damp						
		Loose to medium dense, brown, fine to coarse SAND, trace to little gravel; damp --FILL-- --RDR 2--	1	X	1	20 12 11	NP	6			--RDR 3--	9	X	9	6 6 21	NP	6
			2	X	2	7 5 5	NP	4		807.0	Brown SANDY GRAVEL; damp						
			5	X	5					806.1	Medium dense, brown SANDY LOAM, trace gravel; moist		X	10	13 8 9	NP	16
										805.0	Boring terminated at 25.00 ft	25					
	823.3	Very stiff (2.00P), black SILTY CLAY, trace gravel; damp --Buried TOPSOIL-- --RDR 2--	3	X	3	2 2 6	NP	6									
	822.0	Dense to very dense, brown SANDY GRAVEL, trace cobbles; damp --RDR 2-4--	4	X	4	12 11 27	NP	6									
			10	X	10												
			15	X	5	28 25 50/2"	NP	5									
		--rig chatter-- --possible cobbles--	6	X	6	25 39 31	NP	6									
			15	X	6												
		--rig chatter-- --possible cobbles--	7	X	7	16 19 30	NP	6									
			20	X	8	11 21 24	NP	5									
		--rig chatter-- --possible cobbles--		X													

GENERAL NOTES

Begin Drilling **04-18-2022** Complete Drilling **04-18-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **D. You** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

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

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



BORING LOG B20-NAW-07

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WEI Job No.: 121-03-01

Client **Gannett Fleming**
 Project **US Route 20 From Randall Rd to Shales Parkway**
 Location **Elgin, Illinois**

Datum: NAVD 88
 Elevation: 827.65 ft
 North: 1950786.78 ft
 East: 991477.87 ft
 Station: 313+05.04
 Offset: 61.548 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	826.7	11-inch thick CONCRETE --PAVEMENT--															
	824.7	Dense, black and gray Gravelly SAND to SANDY LOAM; damp --FILL-- --RDR 2--	1		1	11 19 21	NP	4									
	821.4	Stiff, brown SILTY CLAY, trace gravel; damp to moist --FILL-- --RDR 2--	2		2	3 4 5	1.64 B	29									
		Medium dense to very dense, brown and gray SANDY GRAVEL to Gravelly SAND; damp --RDR 2-4--	3		3	11 17 19	NP	4									
		--rig chatter-- --possible cobbles--	4		4	13 15 17	NP	4									
		--rig chatter-- --possible cobbles--	5		5	14 13 16	NP	5									
		--rig chatter-- --possible cobbles--	6		6	13 15 50/5"	NP	4									
			7		7	24 22 23	NP	4									
	807.7		8		8	18 22 37	NP	4									
Boring terminated at 20.00 ft																	

GENERAL NOTES

Begin Drilling **04-18-2022** Complete Drilling **04-18-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **D. You** Checked by **CLM**
 Drilling Method **2.25" ID HSA; boring backfilled upon completion**

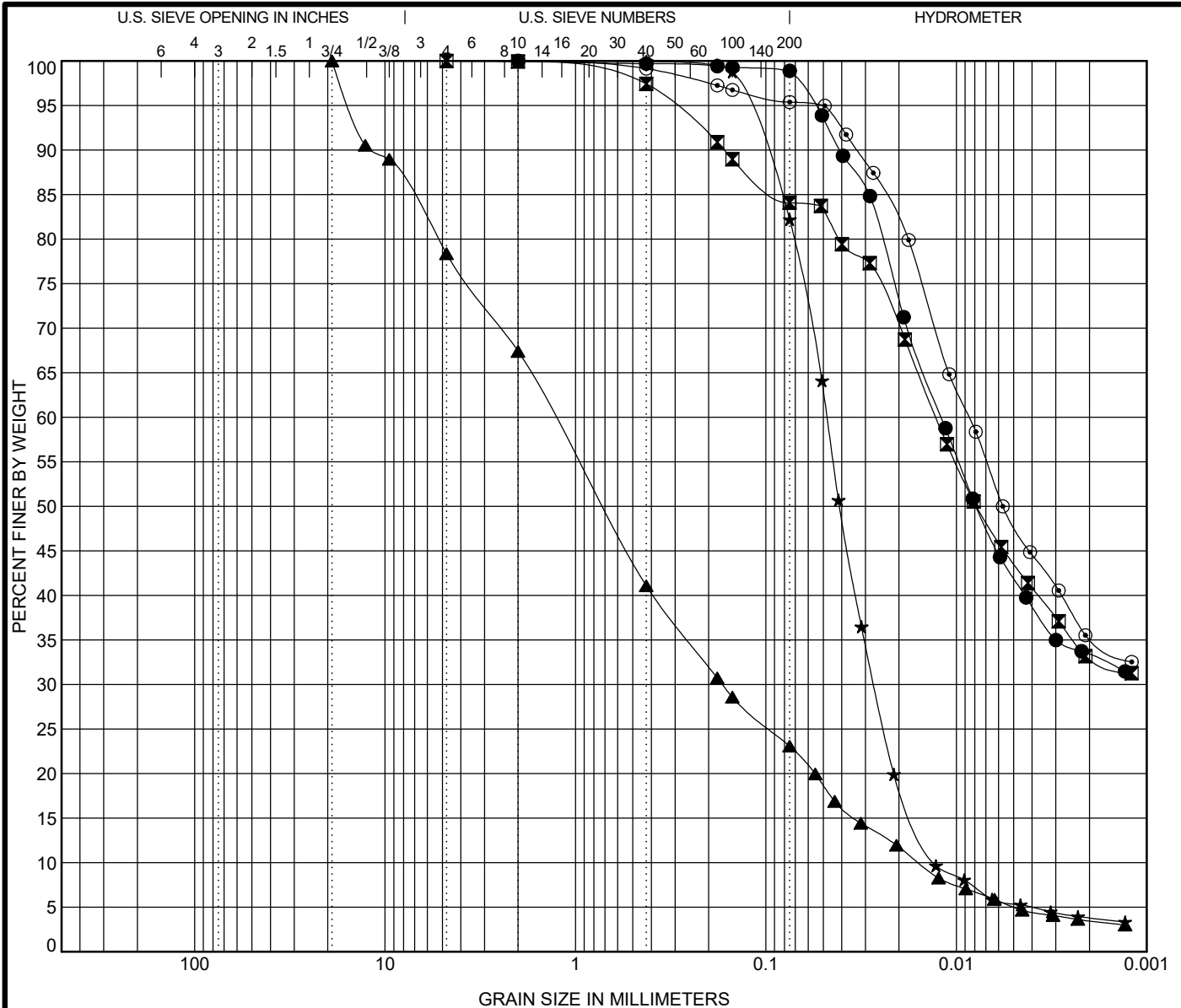
WATER LEVEL DATA

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

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

WANGENG\1210301.GPJ WANGENG.GDT 9/1/22

APPENDIX C: LABORATORY TEST RESULTS



COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● B4-NAW-01#2 3.5 ft	Silty Clay	NP	NP	NP		
☒ B4-NAW-04#3 6.0 ft	Silty Clay	45	17	28		
▲ B5-NAW-03#2 3.5 ft	Gravelly Sandy Loam	NP	NP	NP	1.41	82.26
★ B5-NAW-07#4 8.5 ft	Silty Loam	NP	NP	NP	1.17	3.67
◎ B5-NAW-10#2 3.5 ft	Silty Clay	51	18	33		

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● B4-NAW-01#2 3.5 ft	2	0.012			0.0	1.3	65.4	33.3
☒ B4-NAW-04#3 6.0 ft	4.75	0.013			0.1	15.9	51.1	33.0
▲ B5-NAW-03#2 3.5 ft	19	1.294	0.169	0.016	32.6	44.5	19.5	3.5
★ B5-NAW-07#4 8.5 ft	2	0.048	0.027	0.013	0.0	18.4	77.8	3.8
◎ B5-NAW-10#2 3.5 ft	2	0.009			0.0	4.6	60.1	35.3

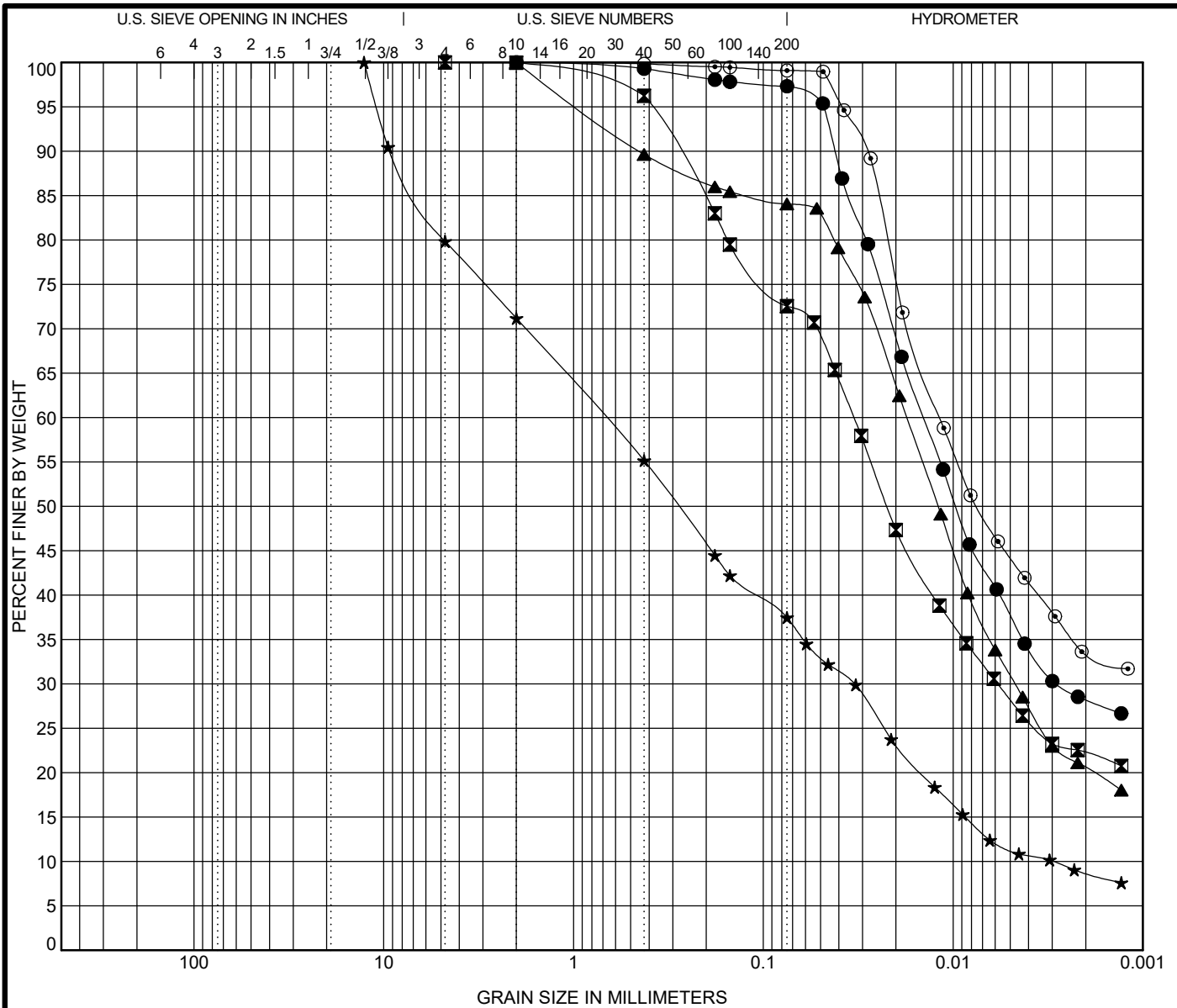


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GRAIN SIZE DISTRIBUTION

Project: US Route 20 From Randall Rd to Shales Parkway
 Location: Elgin, Illinois
 Number: 121-03-01

WEI GRAIN SIZE IDH 1210301.GPJ US LAB.GDT 6/24/22



COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● B5-NAW-13#3 6.0 ft	Silty Clay Loam	NP	NP	NP		
☒ B6-NAW-03#2 3.5 ft	Silty Clay Loam	39	16	23		
▲ B6-NAW-05#2 3.5 ft	Silty Clay Loam	39	24	15		
★ B6-NAW-11#3 6.0 ft	Gravelly Loam	NP	NP	NP	0.54	229.02
⊙ B6-NAW-19#2 3.5 ft	Silty Clay	NP	NP	NP		

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● B5-NAW-13#3 6.0 ft	2	0.014	0.003		0.0	2.7	69.1	28.2
☒ B6-NAW-03#2 3.5 ft	4.75	0.033	0.006		0.0	27.5	50.2	22.2
▲ B6-NAW-05#2 3.5 ft	2	0.017	0.005		0.0	16.0	63.5	20.5
★ B6-NAW-11#3 6.0 ft	12.7	0.679	0.033	0.003	28.8	33.9	28.6	8.7
⊙ B6-NAW-19#2 3.5 ft	2	0.012			0.0	0.9	65.6	33.5



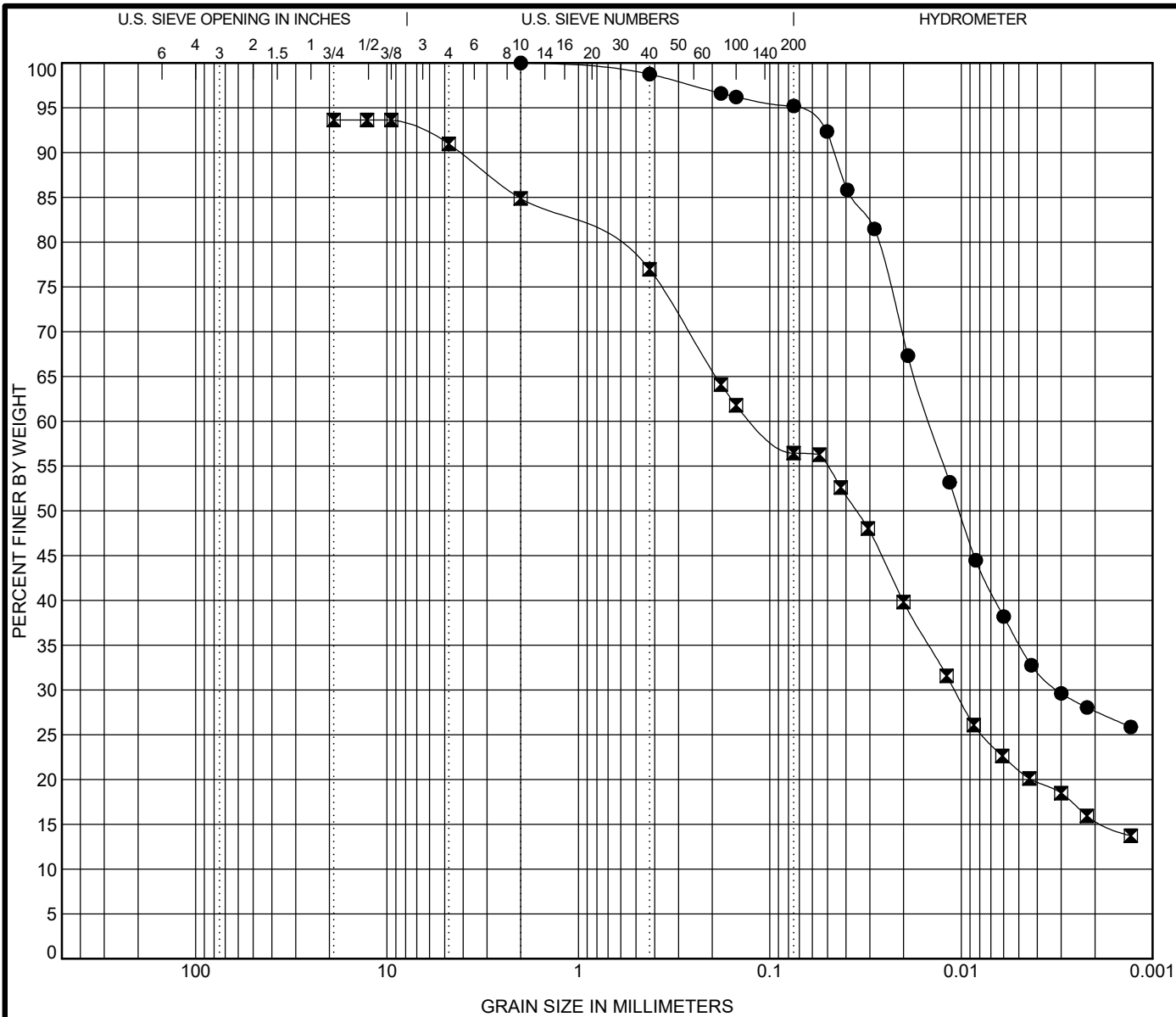
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Location: Elgin, Illinois

Number: 121-03-01



COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● B6-NAW-22#2 3.5 ft	Silty Clay Loam	47	17	30		
☒ B6-NAW-29#3 6.0 ft	Gravelly Loam	NP	NP	NP		

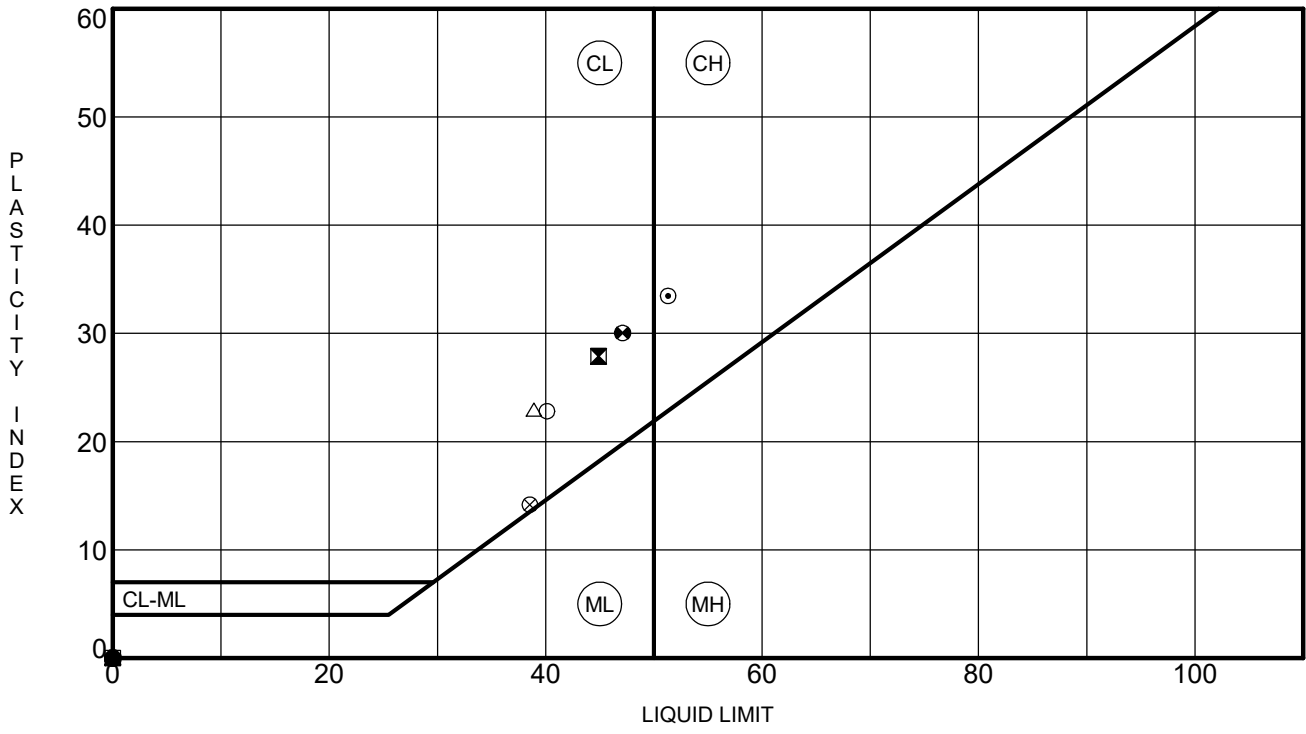
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● B6-NAW-22#2 3.5 ft	2	0.015	0.003		0.0	4.9	67.5	27.7
☒ B6-NAW-29#3 6.0 ft	19	0.119	0.011		15.1	28.4	40.9	15.5



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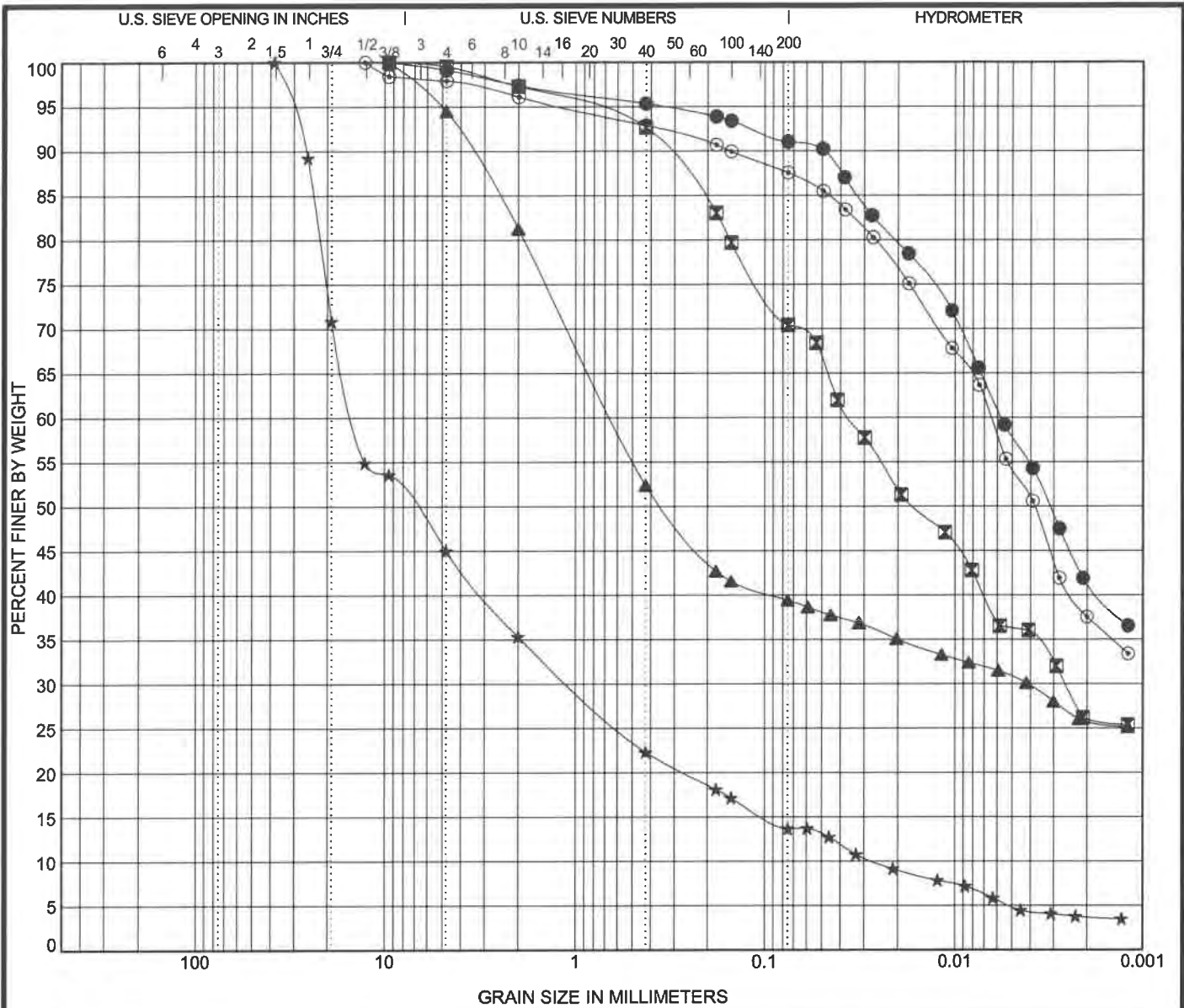
Specimen Identification	LL	PL	PI	Fines	IDH Classification	
● B4-NAW-01#2	3.5 ft	NP	NP	NP	99	Silty Clay
⊠ B4-NAW-04#3	6.0 ft	45	17	28	84	Silty Clay
▲ B5-NAW-03#2	3.5 ft	NP	NP	NP	23	Gravelly Sandy Loam
★ B5-NAW-07#4	8.5 ft	NP	NP	NP	82	Silty Loam
⊙ B5-NAW-10#2	3.5 ft	51	18	33	95	Silty Clay
⊕ B5-NAW-13#3	6.0 ft	NP	NP	NP	97	Silty Clay Loam
○ B5-Rt34-NAW-04#2	3.5 ft	40	17	23		
△ B6-NAW-03#2	3.5 ft	39	16	23	73	Silty Clay Loam
⊗ B6-NAW-05#2	3.5 ft	39	24	15	84	Silty Clay Loam
⊕ B6-NAW-11#3	6.0 ft	NP	NP	NP	37	Gravelly Loam
□ B6-NAW-19#2	3.5 ft	NP	NP	NP	99	Silty Clay
⊕ B6-NAW-22#2	3.5 ft	47	17	30	95	Silty Clay Loam
⊕ B6-NAW-29#3	6.0 ft	NP	NP	NP	56	Gravelly Loam

WEI ATTERBERG LIMITS IDH 1210301.GPJ US LAB.GDT 6/24/22



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ATTERBERG LIMITS' RESULTS
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 Location: Elgin, Illinois
 Number: 121-03-01



COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu		
● B10-NAW-01#3 6.0 ft	Silty Clay	32	14	18				
☒ B10-NAW-02#10 23.5 ft	Clay Loam	24	12	12				
▲ B11+13-NAW-01#1 1.0 ft	Gravelly Sandy Clay	57	21	36				
★ B11+13-NAW-01#2 3.5 ft	Gravelly Sandy Loam	NP	NP	NP	2.91	538.73		
◎ B11+13-NAW-01#6 13.5 ft	Silty Clay	30	13	17				
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● B10-NAW-01#3 6.0 ft	9.5	0.006			2.6	6.4	49.6	41.4
☒ B10-NAW-02#10 23.5 ft	9.5	0.036	0.003		2.7	27.0	44.2	26.1
▲ B11+13-NAW-01#1 1.0 ft	9.5	0.64	0.004		18.7	41.9	13.5	25.9
★ B11+13-NAW-01#2 3.5 ft	38.1	14.439	1.061	0.027	64.7	21.7	10.0	3.7
◎ B11+13-NAW-01#6 13.5 ft	12.7	0.006			3.9	8.6	50.0	37.5

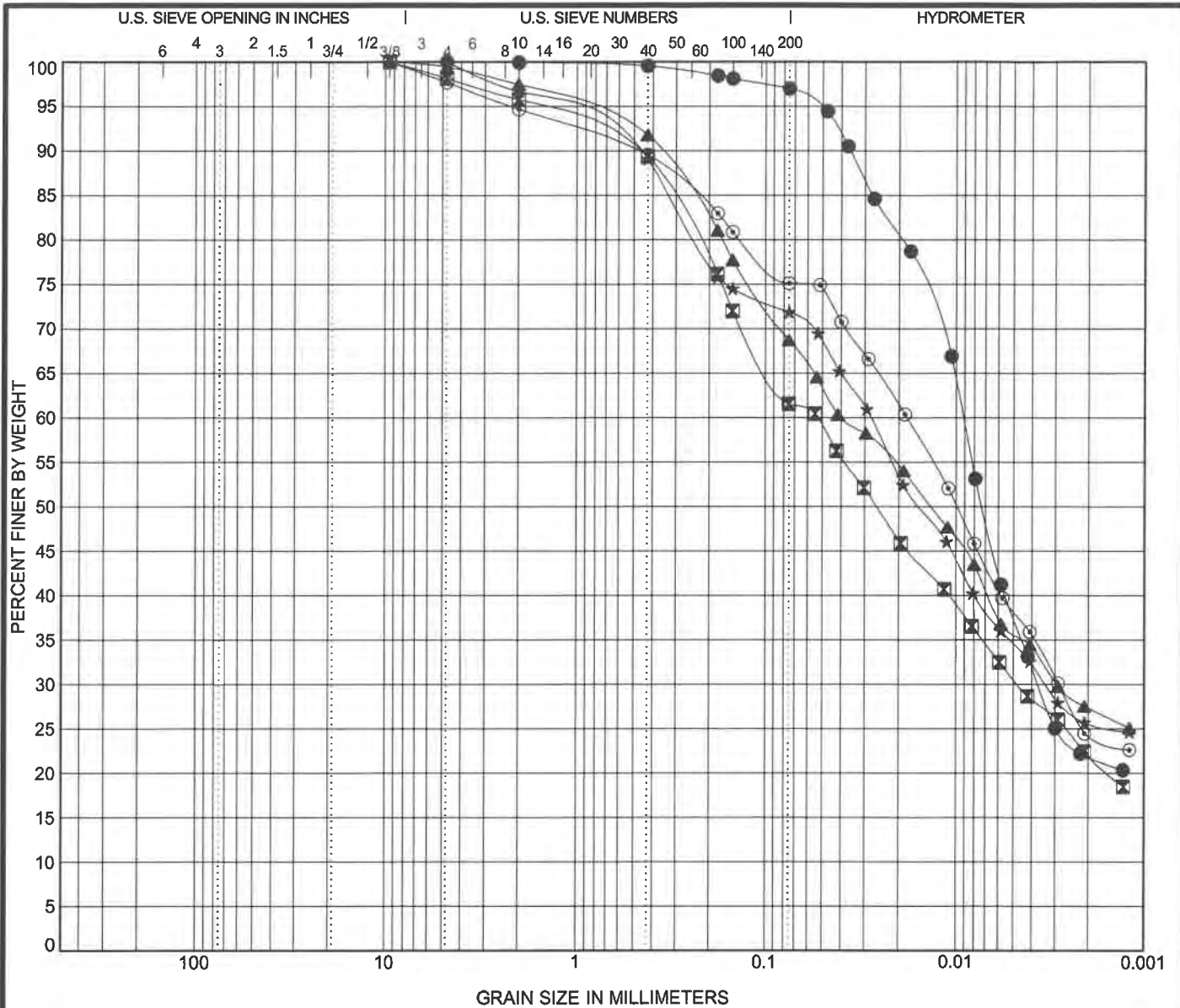


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 Number: 121-03-01

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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● B11+13-NAW-02#1126.0 ft	Silty Clay Loam	29	15	14		
☒ B12-NAW-02#6 13.5 ft	Clay Loam	21	10	11		
▲ B12-NAW-02#9 21.0 ft	Clay Loam	24	9	15		
★ B14-NAW-01#2 3.5 ft	Clay Loam	46	21	25		
○ B14-NAW-02#7 16.0 ft	Silty Clay Loam	23	13	10		

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● B11+13-NAW-02#1126.0 ft	4.75	0.009	0.004		0.1	3.0	75.1	21.9
☒ B12-NAW-02#6 13.5 ft	9.5	0.053	0.005		4.2	34.3	39.5	22.0
▲ B12-NAW-02#9 21.0 ft	9.5	0.039	0.003		2.5	28.9	41.2	27.3
★ B14-NAW-01#2 3.5 ft	4.75	0.028	0.003		3.3	24.9	46.2	25.6
○ B14-NAW-02#7 16.0 ft	9.5	0.018	0.003		5.3	19.6	50.8	24.3

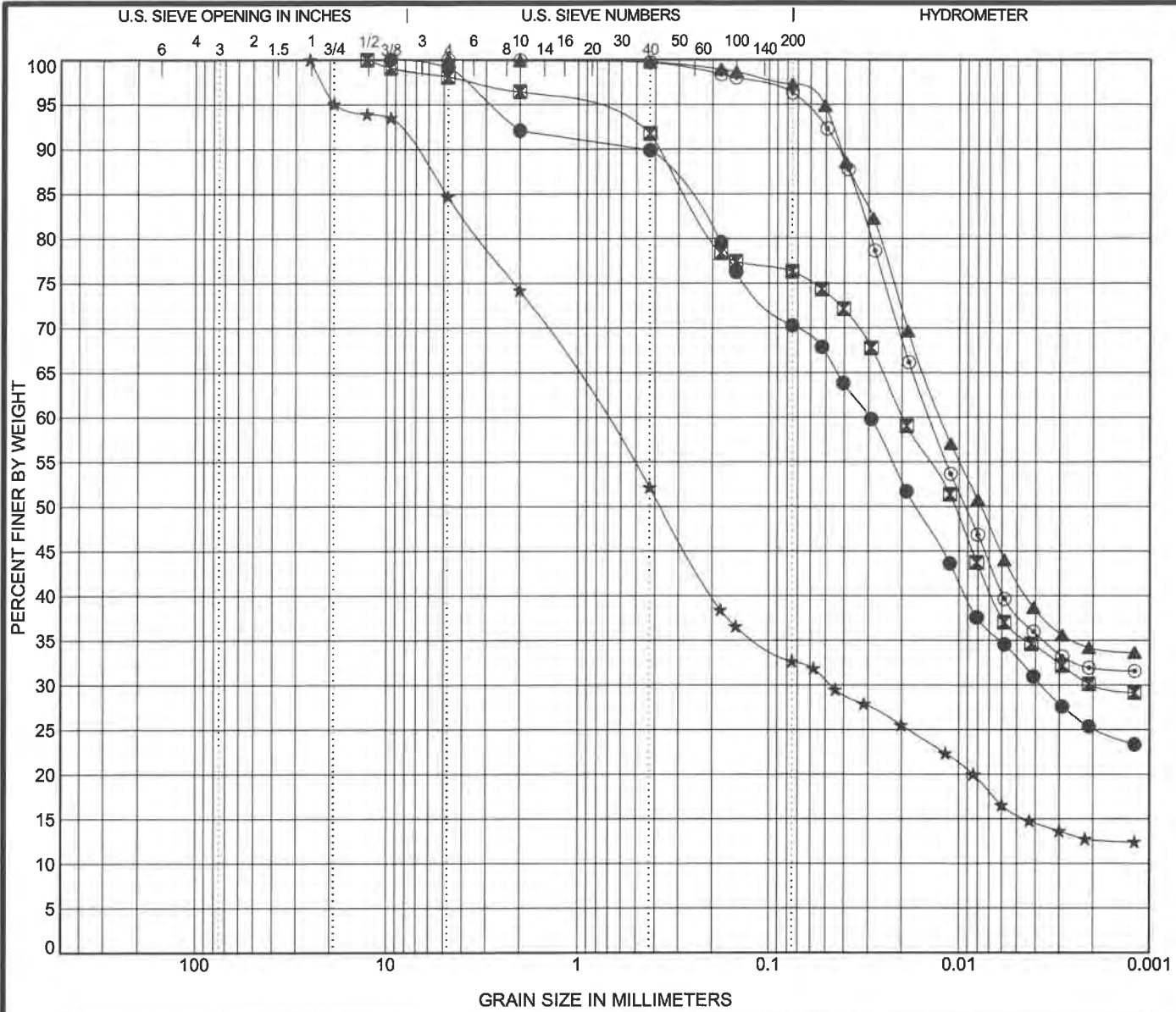
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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● B14-NAW-08#1 1.0 ft	Clay Loam	32	14	18		
☒ B15-NAW-06#3 6.0 ft	Clay	42	14	28		
▲ B16-NAW-01#2 3.5 ft	Silty Clay	48	16	32		
★ B17-NAW-01#1 1.0 ft	Gravelly Sandy Loam	33	19	14		
◎ B17-NAW-08#2 3.5 ft	Silty Clay	41	15	26		

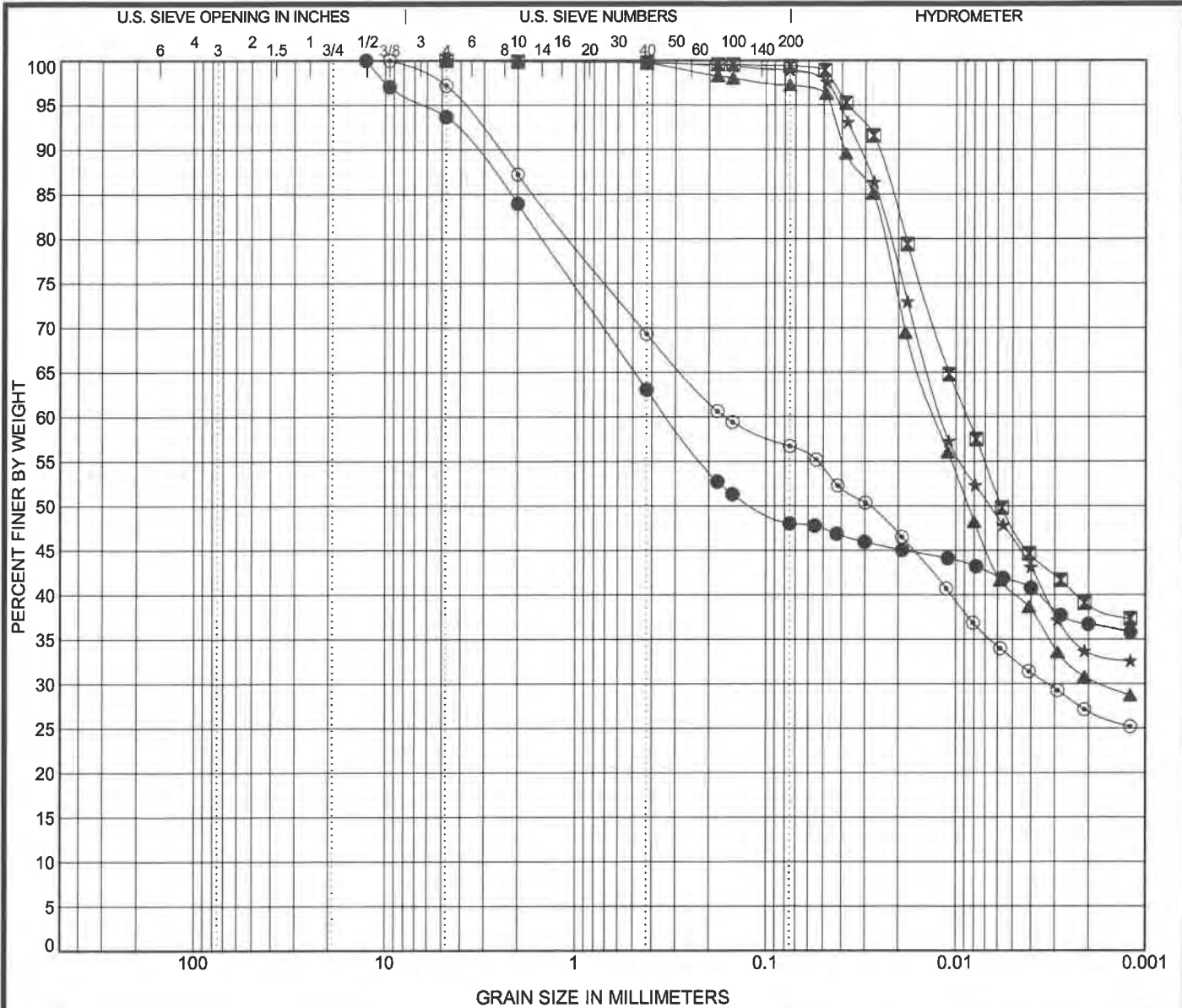
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● B14-NAW-08#1 1.0 ft	9.5	0.03	0.004		7.9	21.9	45.0	25.2
☒ B15-NAW-06#3 6.0 ft	12.7	0.02	0.002		3.5	20.2	46.2	30.0
▲ B16-NAW-01#2 3.5 ft	4.75	0.013			0.1	2.7	63.0	34.1
★ B17-NAW-01#1 1.0 ft	25.4	0.737	0.047		25.8	41.6	19.9	12.7
◎ B17-NAW-08#2 3.5 ft	4.75	0.014			0.0	3.8	64.3	31.9

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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

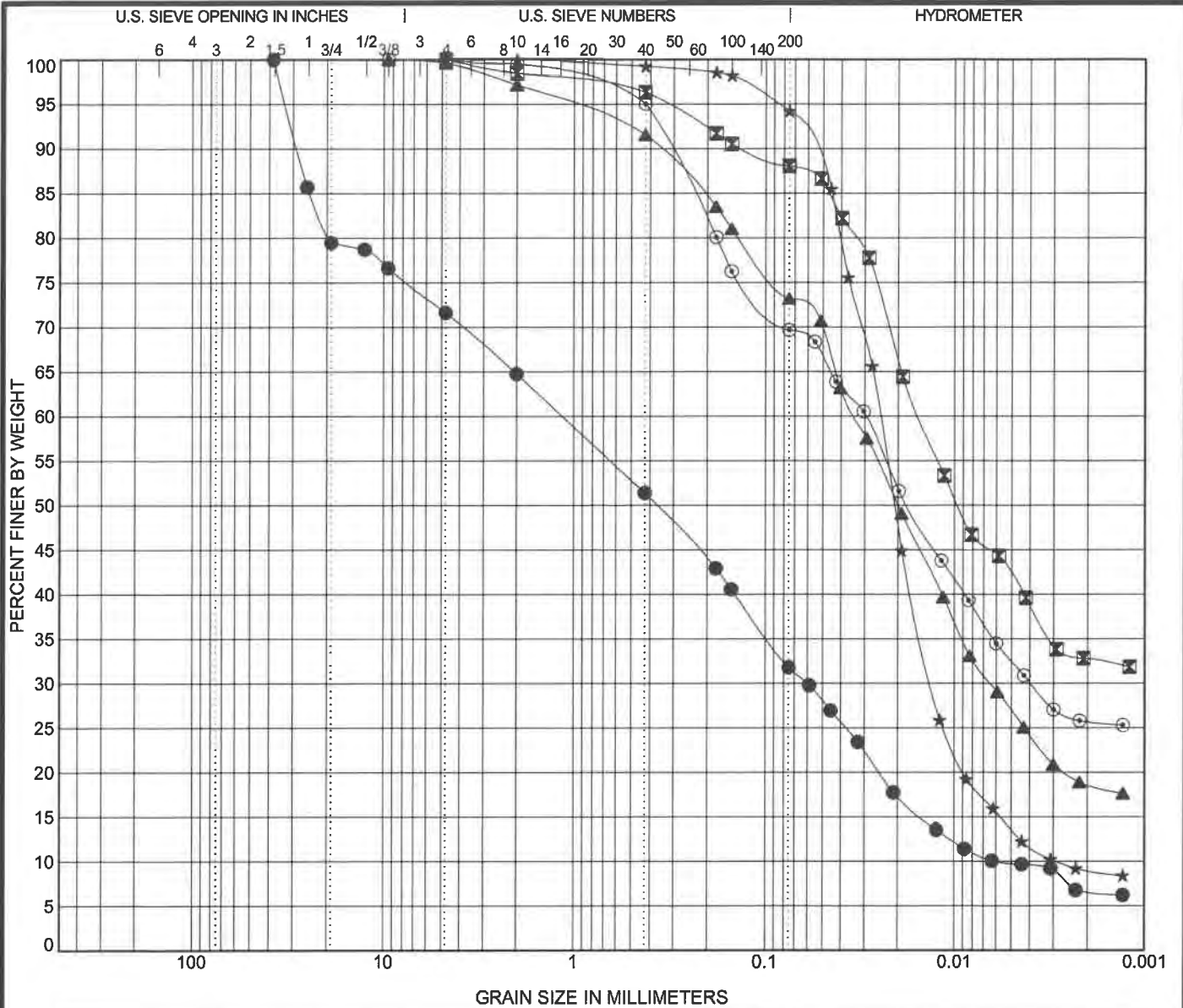
Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu		
● B17-NAW-10#4 8.5 ft	Gravelly Clay	59	21	38				
☒ B18-NAW-03#2 3.5 ft	Silty Clay	53	14	39				
▲ B18-NAW-03#3 6.0 ft	Silty Clay	43	13	30				
★ B20-NAW-03#1 1.0 ft	Silty Clay	48	16	32				
◎ B20-NAW-04#4 8.5 ft	Clay	49	19	30				
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● B17-NAW-10#4 8.5 ft	12.7	0.33			16.1	35.9	11.3	36.7
☒ B18-NAW-03#2 3.5 ft	4.75	0.009			0.1	0.6	60.4	38.9
▲ B18-NAW-03#3 6.0 ft	4.75	0.013	0.002		0.0	2.8	66.6	30.6
★ B20-NAW-03#1 1.0 ft	4.75	0.012			0.1	1.0	65.3	33.6
◎ B20-NAW-04#4 8.5 ft	9.5	0.164	0.003		12.8	30.6	29.7	26.9



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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu		
● B20-NAW-04#7 16.0 ft	Gravelly Sandy Loam	NP	NP	NP	0.52	192.92		
☒ B6-NAW-01#1 1.0 ft	Silty Clay	46	14	32				
▲ B6-NAW-01#2 3.5 ft	Silty Loam	23	10	13				
★ B6-NAW-01#4 8.5 ft	Silt	NP	NP	NP	2.41	8.54		
◎ B6-NAW-03#3 6.0 ft	Clay Loam	NP	NP	NP				
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● B20-NAW-04#7 16.0 ft	38.1	1.154	0.06	0.006	35.3	33.1	25.1	6.6
☒ B6-NAW-01#1 1.0 ft	4.75	0.015			1.6	10.4	55.3	32.7
▲ B6-NAW-01#2 3.5 ft	9.5	0.034	0.006		2.8	24.1	54.4	18.7
★ B6-NAW-01#4 8.5 ft	4.75	0.025	0.013	0.003	0.0	6.0	85.0	9.0
◎ B6-NAW-03#3 6.0 ft	9.5	0.03	0.004		0.5	29.9	43.9	25.7

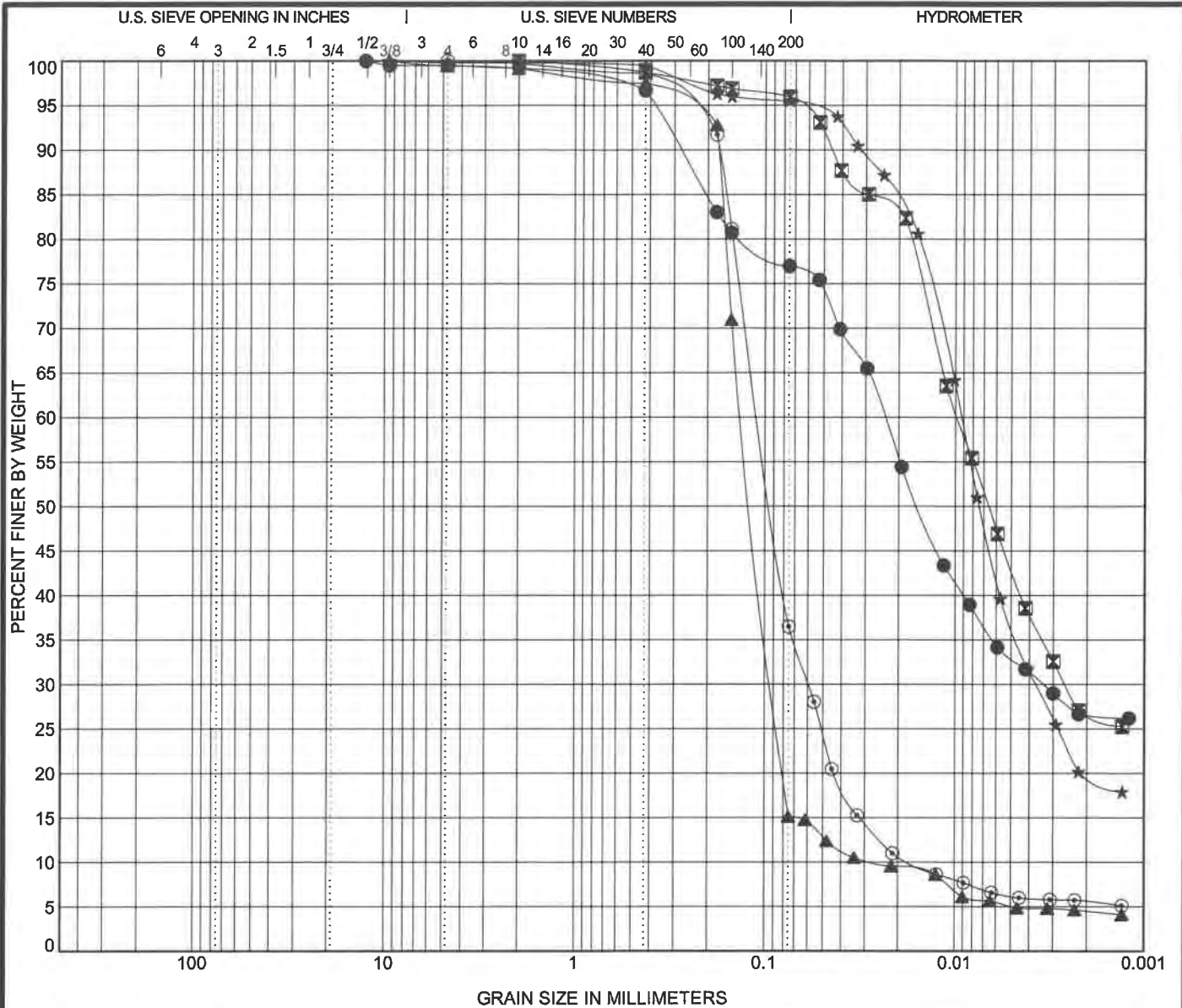


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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● B6-NAW-04#2 3.5 ft	Silty Clay Loam	40	13	27		
☒ B6-NAW-05#1 1.0 ft	Silty Clay Loam	68	32	36		
▲ B6-NAW-05#6 13.5 ft	Sand	NP	NP	NP	2.32	4.88
★ B6-NAW-08#8 18.5 ft	Silty Loam	24	15	9		
◎ B6-NAW-09#5 11.0 ft	Sandy Loam	NP	NP	NP	1.93	6.34

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● B6-NAW-04#2 3.5 ft	12.7	0.024	0.003		0.8	22.3	50.3	26.6
☒ B6-NAW-05#1 1.0 ft	2	0.01	0.003		0.0	4.2	69.1	26.7
▲ B6-NAW-05#6 13.5 ft	9.5	0.131	0.09	0.027	0.9	84.0	10.6	4.5
★ B6-NAW-08#8 18.5 ft	9.5	0.009	0.004		0.2	4.3	75.7	19.8
◎ B6-NAW-09#5 11.0 ft	4.75	0.108	0.06	0.017	0.3	63.6	30.5	5.6

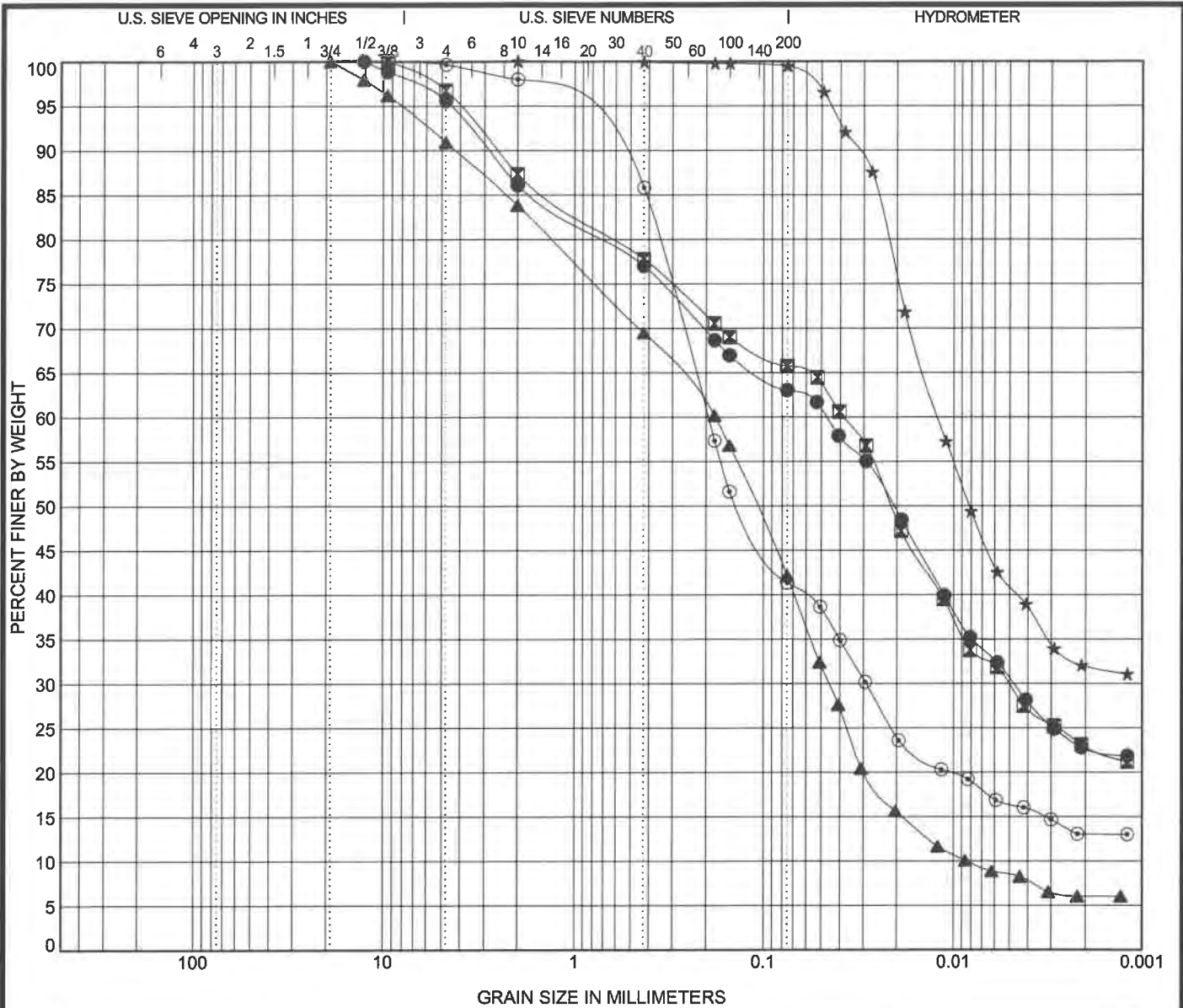
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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu		
● B6-NAW-10#2 3.5 ft	Clay Loam	46	16	30				
☒ B6-NAW-11#2 3.5 ft	Clay Loam	39	16	23				
▲ B6-NAW-22#6 13.5 ft	Gravelly Sandy Loam	NP	NP	NP	1.37	21.07		
★ B7-NAW-05#5 11.0 ft	Silty Clay	44	14	30				
◎ B7-NAW-05#6 13.5 ft	Sandy Loam	NP	NP	NP				
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● B6-NAW-10#2 3.5 ft	12.7	0.047	0.005		13.9	23.2	40.2	22.7
☒ B6-NAW-11#2 3.5 ft	9.5	0.038	0.005		12.7	21.7	42.7	23.0
▲ B6-NAW-22#6 13.5 ft	19	0.178	0.045	0.008	16.2	42.0	35.8	6.0
★ B7-NAW-05#5 11.0 ft	2	0.012			0.0	0.6	67.4	32.0
◎ B7-NAW-05#6 13.5 ft	9.5	0.195	0.029		2.0	56.7	28.2	13.0

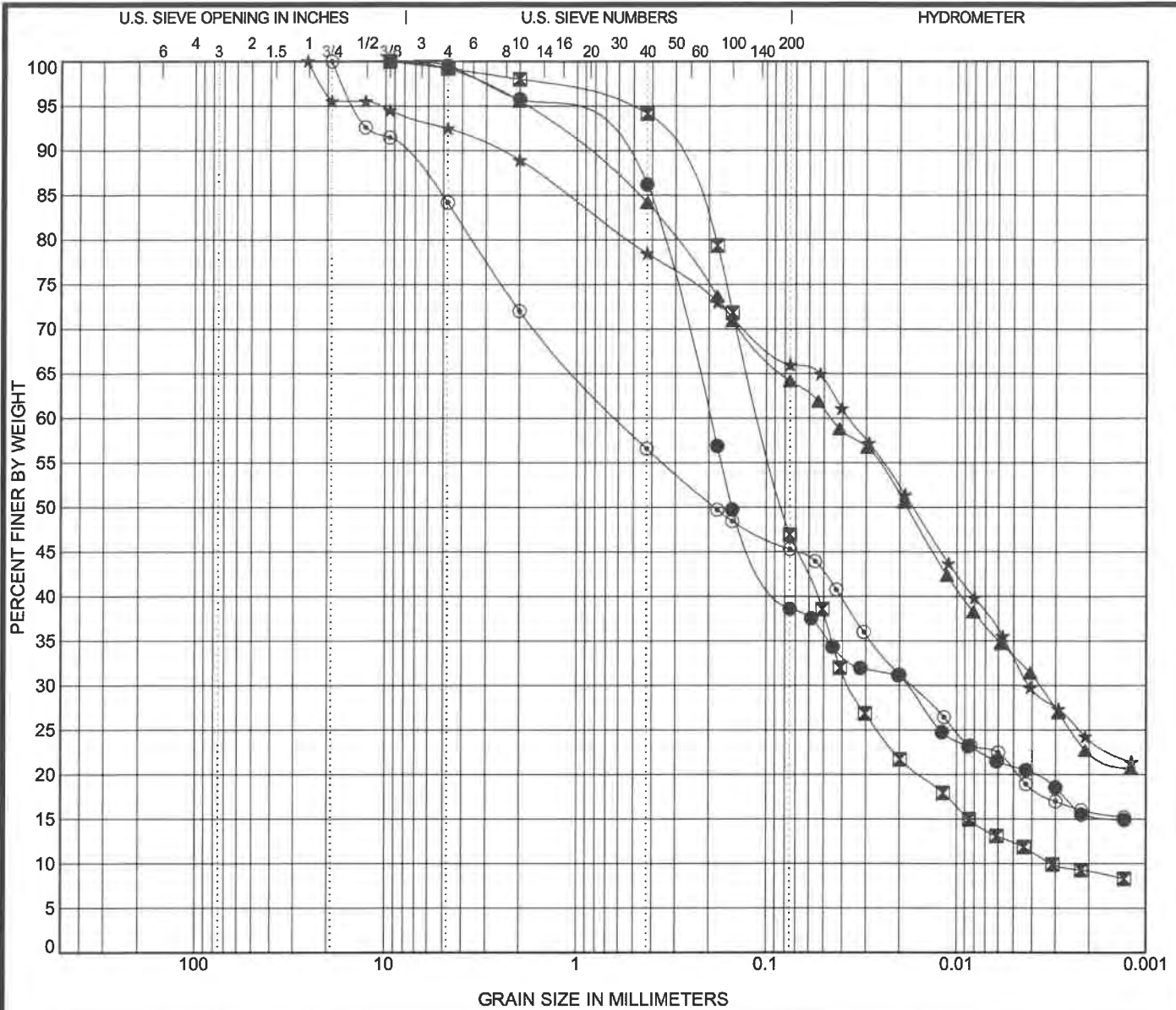


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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu		
● B7-NAW-09#3 6.0 ft	Sandy Loam	25	11	14				
■ B7-NAW-09#6 13.5 ft	Sandy Loam	NP	NP	NP	3.91	34.23		
▲ B7-NAW-10#6 13.5 ft	Clay Loam	21	12	9				
★ B7-NAW-15#2 3.5 ft	Clay Loam	25	13	12				
○ B7-NAW-35#3 6.0 ft	Gravelly Clay Loam	37	14	23				
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● B7-NAW-09#3 6.0 ft	9.5	0.197	0.018		4.2	57.2	23.1	15.4
■ B7-NAW-09#6 13.5 ft	9.5	0.108	0.036	0.003	2.0	51.4	37.5	9.1
▲ B7-NAW-10#6 13.5 ft	9.5	0.046	0.004		4.5	31.5	41.5	22.5
★ B7-NAW-15#2 3.5 ft	25.4	0.037	0.004		11.1	23.0	41.9	24.0
○ B7-NAW-35#3 6.0 ft	19	0.599	0.017		28.0	26.8	29.4	15.9

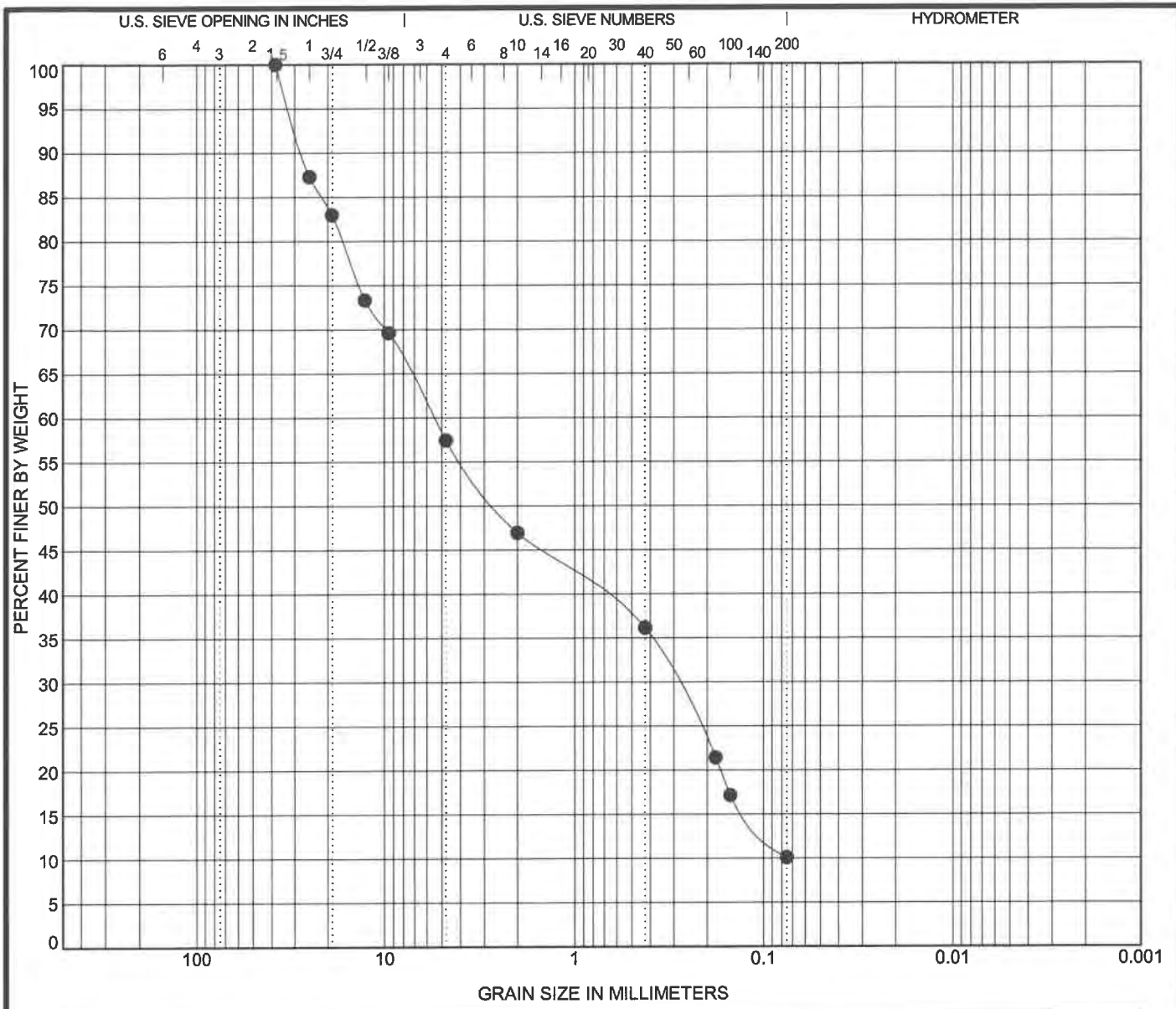
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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● B10-NAW-04#7 16.0 ft	Gravelly Loam	NP	NP	NP	0.22	73.79

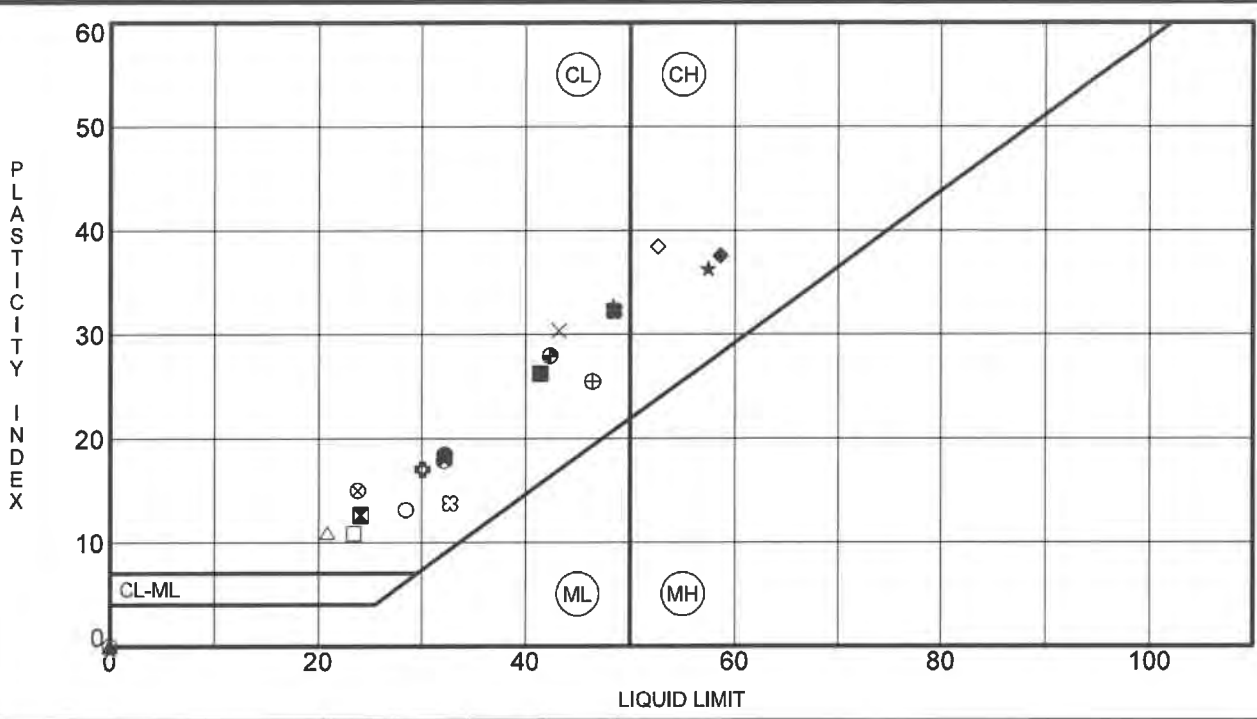
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● B10-NAW-04#7 16.0 ft	38.1	5.492	0.297		53.1		10.1	

WEI GRAIN SIZE IDH 1210301.GPJ US LAB.GDT 8/25/22



Wang Engineering, Inc.
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

GRAIN SIZE DISTRIBUTION
 Project: US Route 20 From Randall Rd to Shales Parkway
 Location: Elgin, Illinois
 Number: 121-03-01



Specimen Identification	LL	PL	PI	Fines	IDH Classification
● B10-NAW-01#3 6.0 ft	32	14	18	91	Silty Clay
⊠ B10-NAW-02#10 23.5 ft	24	12	12	70	Clay Loam
▲ B10-NAW-04#7 16.0 ft	NP	NP	NP	10	Gravelly Loam
★ B11+13-NAW-01#1 1.0 ft	57	21	36	39	Gravelly Sandy Clay
⊙ B11+13-NAW-01#2 3.5 ft	NP	NP	NP	14	Gravelly Sandy Loam
⊕ B11+13-NAW-01#6 13.5 ft	30	13	17	88	Silty Clay
○ B11+13-NAW-02#11 26.0 ft	29	15	14	97	Silty Clay Loam
△ B12-NAW-02#6 13.5 ft	21	10	11	62	Clay Loam
⊗ B12-NAW-02#9 21.0 ft	24	9	15	69	Clay Loam
⊕ B14-NAW-01#2 3.5 ft	46	21	25	72	Clay Loam
□ B14-NAW-02#7 16.0 ft	23	13	10	75	Silty Clay Loam
⊕ B14-NAW-08#1 1.0 ft	32	14	18	70	Clay Loam
⊕ B15-NAW-06#3 6.0 ft	42	14	28	76	Clay
☆ B16-NAW-01#2 3.5 ft	48	16	32	97	Silty Clay
⊗ B17-NAW-01#1 1.0 ft	33	19	14	33	Gravelly Sandy Loam
■ B17-NAW-08#2 3.5 ft	41	15	26	96	Silty Clay
◆ B17-NAW-10#4 8.5 ft	59	21	38	48	Gravelly Clay
◇ B18-NAW-03#2 3.5 ft	53	14	39	99	Silty Clay
× B18-NAW-03#3 6.0 ft	43	13	30	97	Silty Clay
■ B20-NAW-03#1 1.0 ft	48	16	32	99	Silty Clay

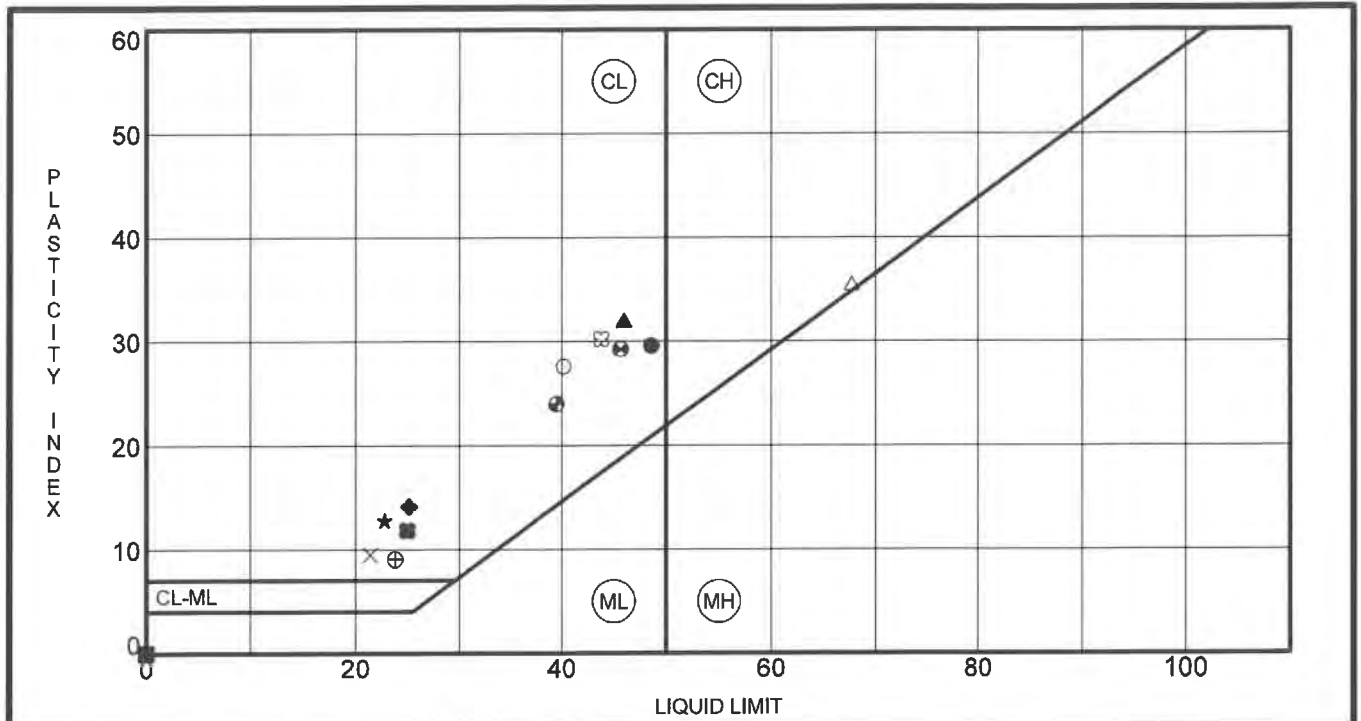
WEI ATTERBERG LIMITS IDH 1210301.GPJ US LAB GDT 8/29/22



Wang Engineering, Inc.
 1145 N Main Street
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 Telephone: 630-953-9928
 Fax: 630-953-9938

ATTERBERG LIMITS' RESULTS

Project: US Route 20 From Randall Rd to Shales Parkway
 Location: Elgin, Illinois
 Number: 121-03-01



Specimen Identification	LL	PL	PI	Fines	IDH Classification	
● B20-NAW-04#4	8.5 ft	49	19	30	57	Clay
☒ B20-NAW-04#7	16.0 ft	NP	NP	NP	32	Gravelly Sandy Loam
▲ B6-NAW-01#1	1.0 ft	46	14	32	88	Silty Clay
★ B6-NAW-01#2	3.5 ft	23	10	13	73	Silty Loam
⊙ B6-NAW-01#4	8.5 ft	NP	NP	NP	94	Silt
⊕ B6-NAW-03#3	6.0 ft	NP	NP	NP	70	Clay Loam
○ B6-NAW-04#2	3.5 ft	40	13	27	77	Silty Clay Loam
△ B6-NAW-05#1	1.0 ft	68	32	36	96	Silty Clay Loam
⊗ B6-NAW-05#6	13.5 ft	NP	NP	NP	15	Sand
⊕ B6-NAW-08#8	18.5 ft	24	15	9	96	Silty Loam
□ B6-NAW-09#5	11.0 ft	NP	NP	NP	36	Sandy Loam
⊕ B6-NAW-10#2	3.5 ft	46	16	30	63	Clay Loam
⊕ B6-NAW-11#2	3.5 ft	39	16	23	66	Clay Loam
☆ B6-NAW-22#6	13.5 ft	NP	NP	NP	42	Gravelly Sandy Loam
⊗ B7-NAW-05#5	11.0 ft	44	14	30	99	Silty Clay
■ B7-NAW-05#6	13.5 ft	NP	NP	NP	41	Sandy Loam
◆ B7-NAW-09#3	6.0 ft	25	11	14	39	Sandy Loam
◇ B7-NAW-09#6	13.5 ft	NP	NP	NP	47	Sandy Loam
× B7-NAW-10#6	13.5 ft	21	12	9	64	Clay Loam
■ B7-NAW-15#2	3.5 ft	25	13	12	66	Clay Loam

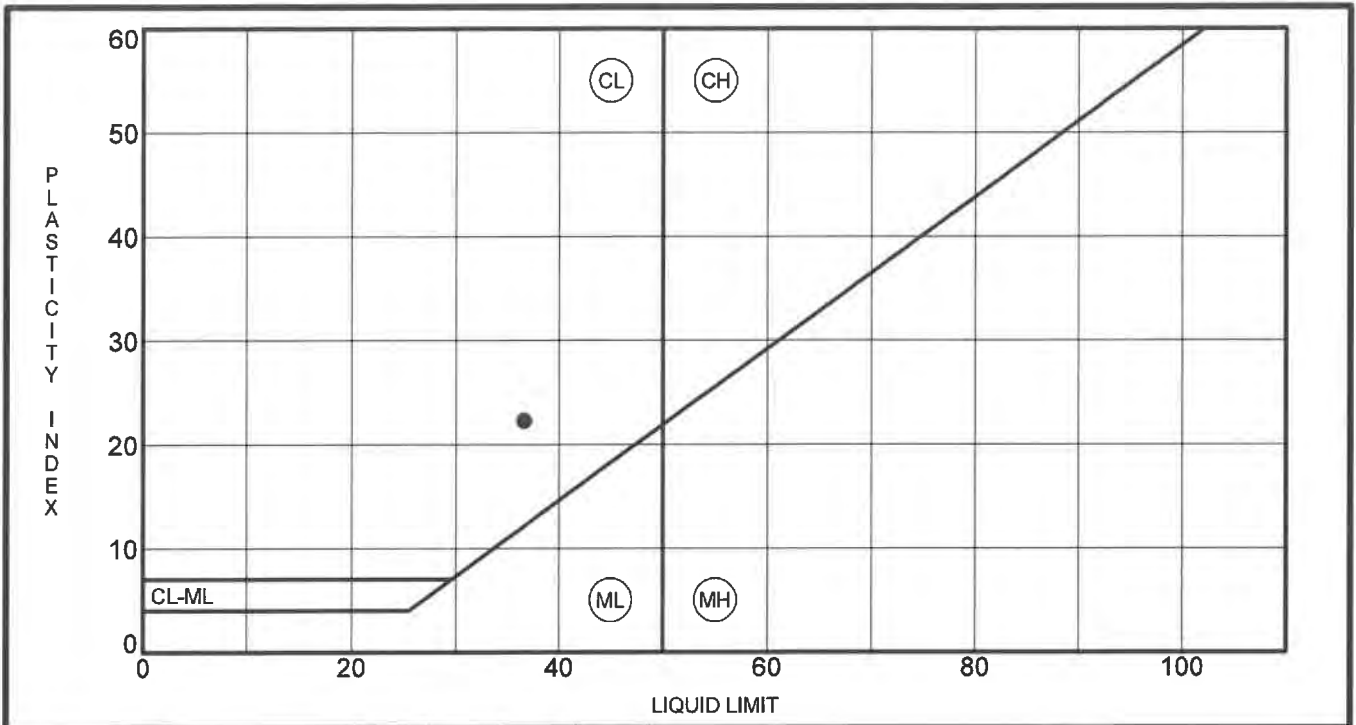
WEI ATTERBERG LIMITS IDH 1210301.GPJ US LAB GDT 8/29/22



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 Telephone: 630-953-9928
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ATTERBERG LIMITS' RESULTS

Project: US Route 20 From Randall Rd to Shales Parkway
 Location: Elgin, Illinois
 Number: 121-03-01



Specimen Identification	LL	PL	PI	Fines	IDH Classification
B7-NAW-35#3 6.0 ft	37	14	23	45	Gravelly Clay Loam

WEI ATTERBERG LIMITS IDH 1210301.GPJ US LAB.GDT 8/29/22

Wang Engineering, Inc.
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 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

ATTERBERG LIMITS' RESULTS

Project: US Route 20 From Randall Rd to Shales Parkway
 Location: Elgin, Illinois
 Number: 121-03-01

LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming
Project: US Route 20
WEI Job No: KE225009
Prep Method: air dried

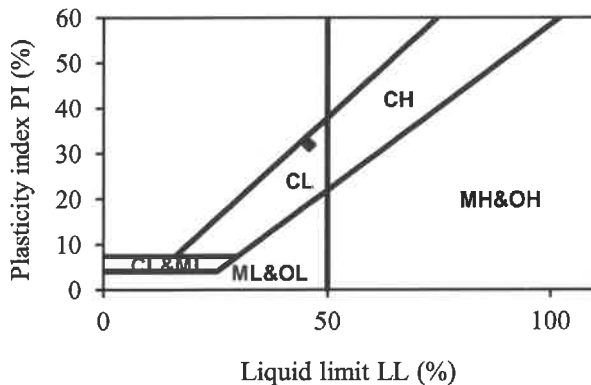
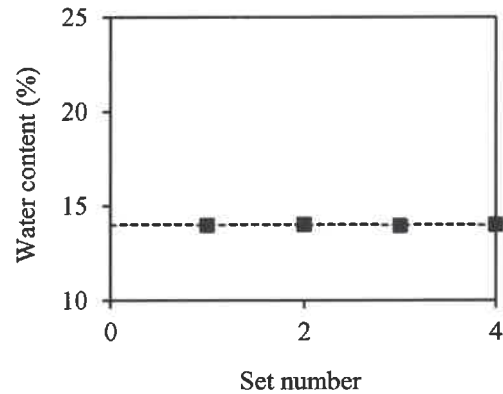
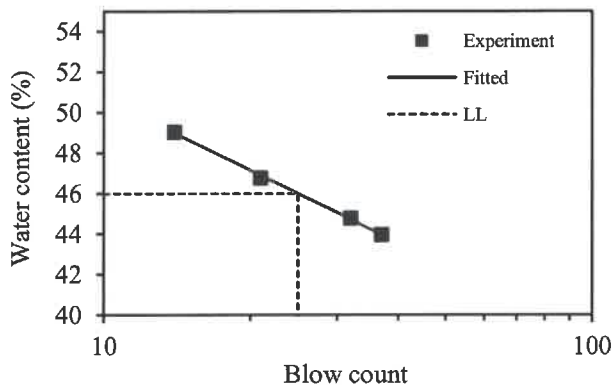
Analyst name: H. Patel
Test date: July 29, 2022
Soil Sample ID: B6-NAW-01, S#1 (1-2.5 ft.)
Sample description: Brown SILTY CLAY
% retained on #40 sieve: 4%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.21	19.79	17.17	37	43.96	43.96
2	11.18	19.07	16.63	32	44.77	44.71
3	11.68	20.31	17.56	21	46.77	46.88
4	11.12	21.15	17.85	14	49.03	48.98

Liquid limit (%) = 45.98
Slope of flow line = 0.111

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.32	19.72	18.69	13.98
2	10.99	20.67	19.48	14.02
3	11.77	19.28	18.36	13.96
4	11.09	18.66	17.73	14.01

Plastic limit (%) = 13.99



Liquid limit (%) = 46
Plastic limit (%) = 14
Plasticity index (%) = 32

Prepared by: [Signature]

Date: 8-29-2022

Checked by: [Signature]

Date: 8/29/22

LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming
Project: US Route 20
WEI Job No: KE225009
Prep Method: air dried

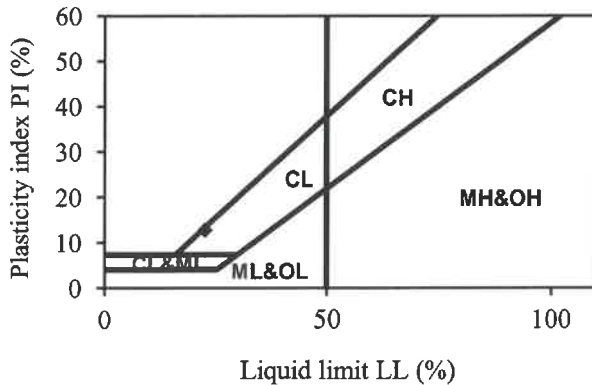
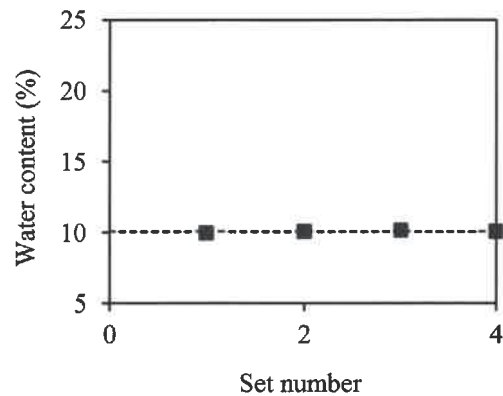
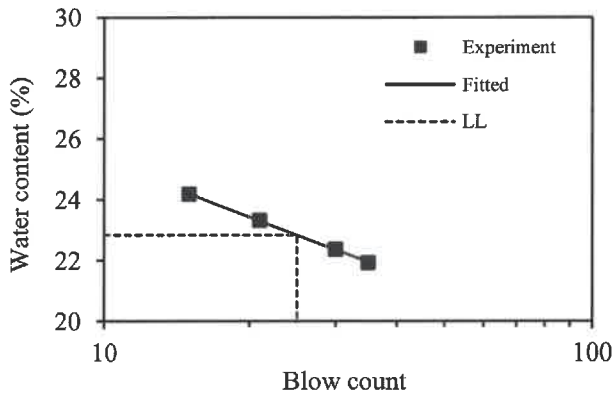
Analyst name: H. Patel
Test date: July 28, 2022
Soil Sample ID: B6-NAW-01, S#2 (3.5-5 ft.)
Sample description: Brown SILTY LOAM
% retained on #40 sieve: 8%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.11	19.34	17.86	35	21.93	21.94
2	11.11	20.74	18.98	30	22.36	22.35
3	10.93	20.66	18.82	21	23.32	23.30
4	11.13	20.32	18.53	15	24.19	24.20

Liquid limit (%) = 22.84
Slope of flow line = 0.116

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.47	18.98	18.30	9.96
2	11.14	22.19	21.18	10.06
3	11.01	20.87	19.96	10.17
4	11.38	20.68	19.83	10.06

Plastic limit (%) = 10.06



Liquid limit (%) = 23
Plastic limit (%) = 10
Plasticity index (%) = 13

Prepared by: [Signature] Date: 8/29/22
Checked by: [Signature] Date: 8/29/22

LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming

Analyst name: H. Patel

Project: US Route 20

Test date: July 28, 2022

WEI Job No: KE225009

Soil Sample ID: B6-NAW-04, S#2 (3.5-5 ft.)

Prep Method: air dried

Sample description: Brown SILTY CLAY LOAM

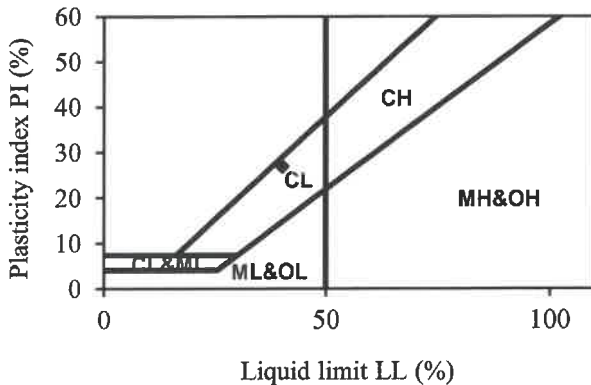
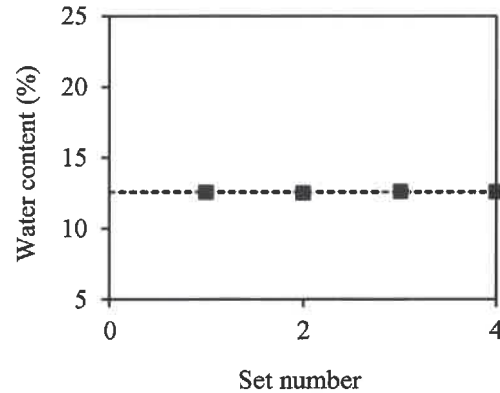
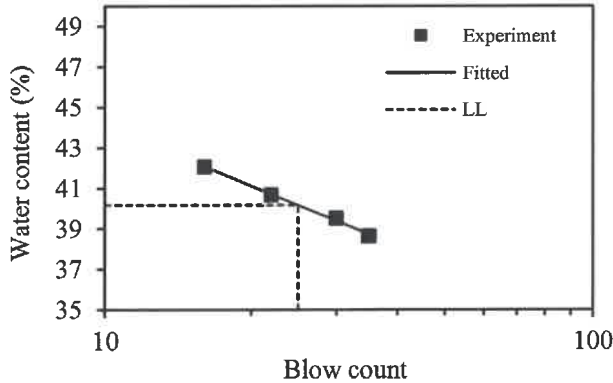
% retained on #40 sieve: 3%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.01	20.23	17.66	35	38.65	38.74
2	11.13	21.12	18.29	30	39.53	39.39
3	11.05	21.39	18.40	22	40.68	40.71
4	11.04	24.01	20.17	16	42.06	42.07

Liquid limit (%) = 40.17
Slope of flow line = 0.105

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.18	22.03	20.82	12.55
2	11.17	23.49	22.12	12.51
3	11.36	23.49	22.13	12.63
4	11.14	21.68	20.50	12.61

Plastic limit (%) = 12.57



Liquid limit (%) = 40
Plastic limit (%) = 13
Plasticity index (%) = 27

Prepared by: [Signature]

Date: 8/29/2022

Checked by: [Signature]

Date: 8/29/22

LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming

Analyst name: H. Patel

Project: US Route 20

Test date: July 29, 2022

WEI Job No: KE225009

Soil Sample ID: B6-NAW-05, S#1 (1-2.5 ft.)

Prep Method: air dried

Sample description: Black SILTY CLAY LOAM

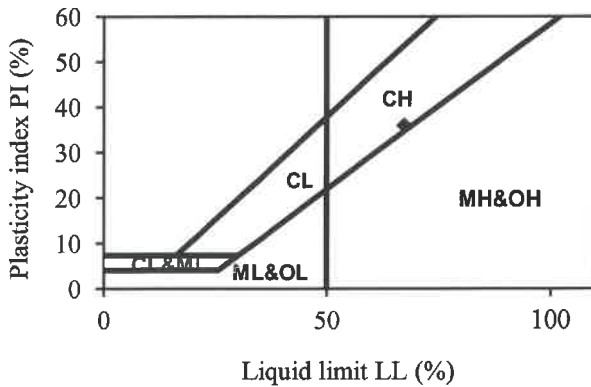
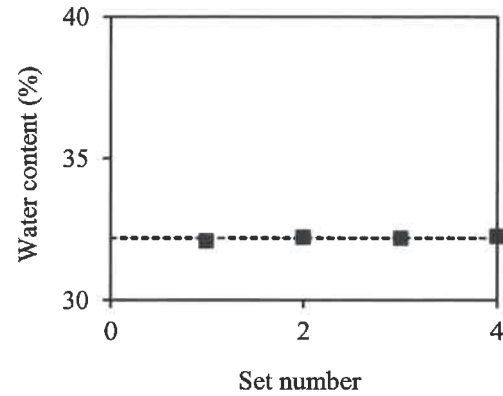
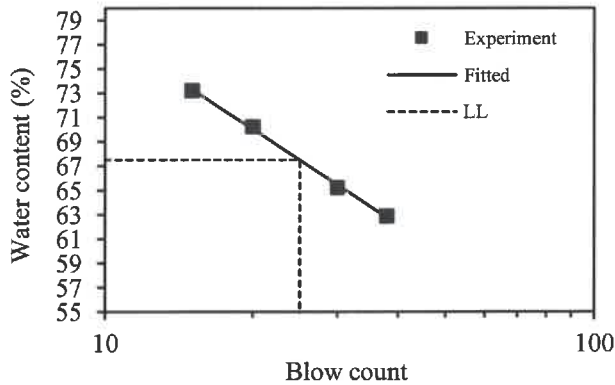
% retained on #40 sieve: 1%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.18	18.38	15.60	38	62.90	62.79
2	11.10	18.37	15.50	30	65.23	65.46
3	11.13	18.91	15.70	20	70.24	70.04
4	11.12	18.88	15.60	15	73.21	73.29

Liquid limit (%) = 67.52
Slope of flow line = 0.166

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	10.98	21.60	19.02	32.09
2	11.31	21.94	19.35	32.21
3	11.10	21.90	19.27	32.19
4	11.00	24.90	21.51	32.25

Plastic limit (%) = 32.19



Liquid limit (%) = 68
Plastic limit (%) = 32
Plasticity index (%) = 36

Prepared by: [Signature]

Date: 8/29/2022

Checked by: [Signature]

Date: 8/29/22



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LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming

Analyst name: K. Jacob

Project: US Route 20

Test date: July 29, 2022

WEI Job No: KE225009

Soil Sample ID: B6-NAW-08, S#8 (18.5-20 ft.)

Prep Method: air dried

Sample description: Gray SILTY LOAM

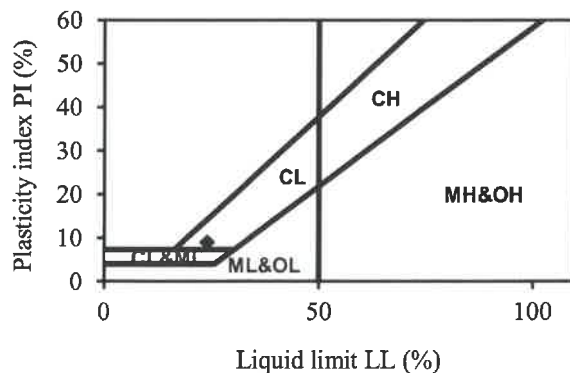
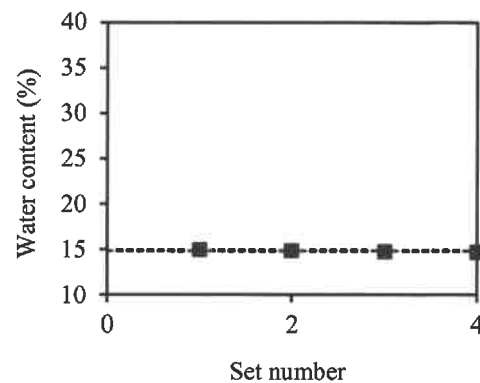
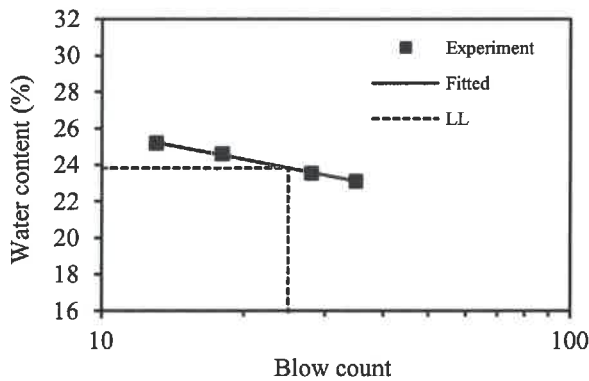
% retained on #40 sieve: 1%

Set #	Tare mass (g)	Tare with wet soil (g)	Tare with dry soil (g)	Blow count	Water content (%)	Water content fitted (%)
	Wc	Ww	Wd	N	w	
1	11.26	24.04	21.64	35	23.12	23.11
2	11.19	22.89	20.66	28	23.55	23.59
3	11.04	22.08	19.90	18	24.60	24.54
4	11.12	22.15	19.93	13	25.20	25.23

Liquid limit (%) = 23.83
Slope of flow line = 0.089

Set #	Tare mass (g)	Tare with wet soil (g)	Tare with dry soil (g)	Water content (%)
	Mc	Mw	Md	w
1	11.09	21.85	20.45	14.96
2	11.36	22.18	20.78	14.86
3	11.11	20.85	19.60	14.72
4	11.05	21.50	20.16	14.71

Plastic limit (%) = 14.81



Liquid limit (%) = 24
Plastic limit (%) = 15
Plasticity index (%) = 9

Prepared by: [Signature]

Date: 8/29/2022

Checked by: [Signature]

Date: 8/29/22



LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming

Project: US Route 20

WEI Job No: KE225009

Prep Method: air dried

Analyst name: D. Morken

Test date: August 2, 2022

Soil Sample ID: B6-NAW-10, S#2 (3.5-5 ft.)

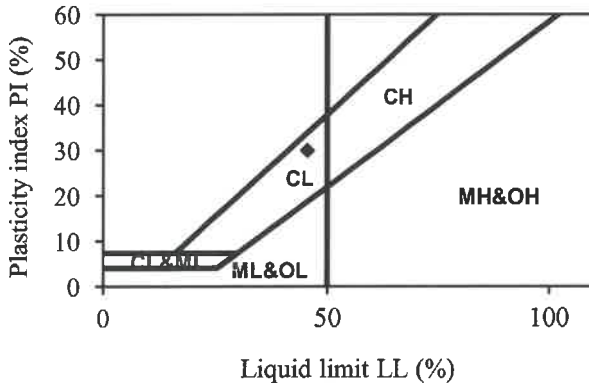
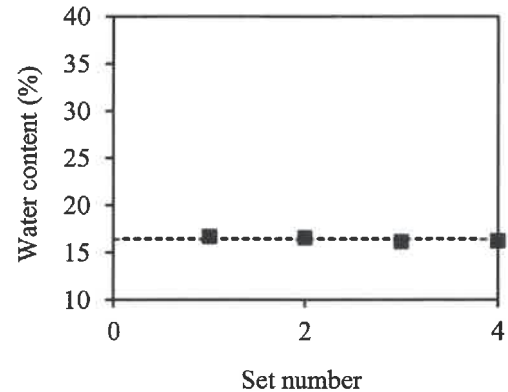
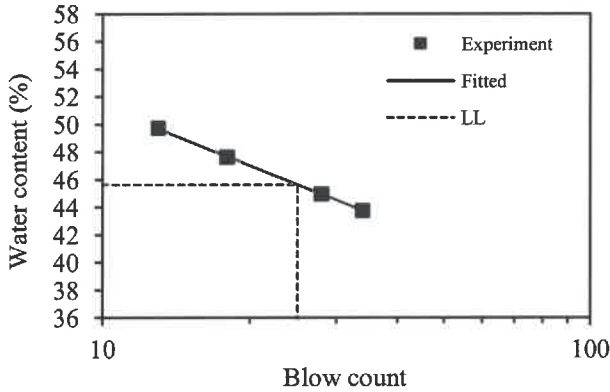
Sample description: Black & Gray CLAY LOAM

% retained on #40 sieve: 23%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.20	19.02	16.64	34	43.75	43.74
2	11.03	19.22	16.68	28	44.96	44.95
3	11.18	20.23	17.31	18	47.63	47.68
4	10.98	19.38	16.59	13	49.73	49.70
Liquid limit (%) = 45.65						
Slope of flow line = 0.133						

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.23	19.76	18.54	16.69
2	11.09	19.89	18.64	16.56
3	11.15	22.95	21.31	16.14
4	11.13	23.32	21.62	16.21

Plastic limit (%) = 16.40



Liquid limit (%) = 46
Plastic limit (%) = 16
Plasticity index (%) = 30

Prepared by: 

Date: 8/29/2022

Checked by: 

Date: 8/29/2022



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LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming

Analyst name: K. Jacob

Project: US Route 20

Test date: August 2, 2022

WEI Job No: KE225009

Soil Sample ID: B6-NAW-11, S#2 (3.5-5 ft.)

Prep Method: air dried

Sample description: Gray CLAY LOAM

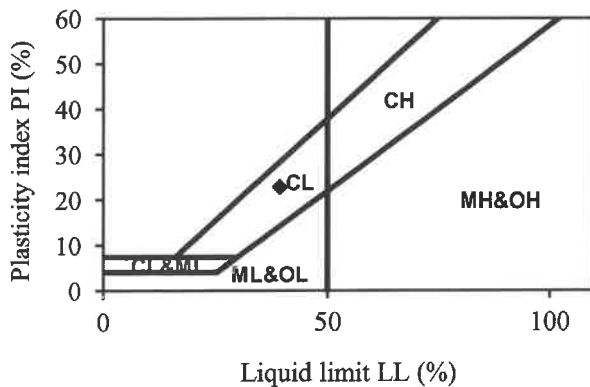
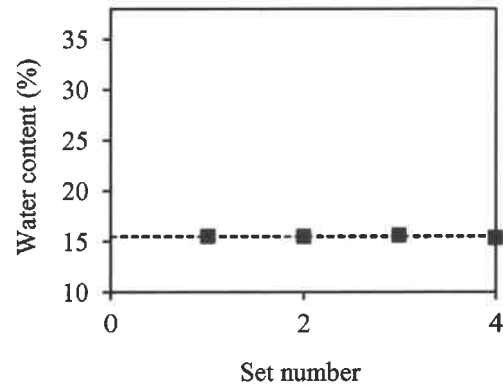
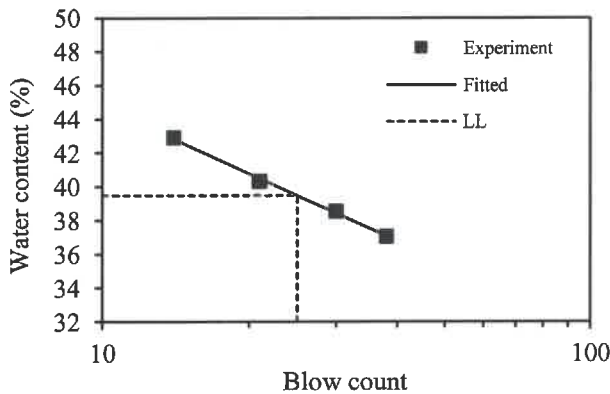
% retained on #40 sieve: 22%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.24	22.41	19.39	38	37.06	37.07
2	10.93	21.10	18.27	30	38.56	38.44
3	11.15	21.45	18.49	21	40.33	40.50
4	11.31	22.00	18.79	14	42.91	42.84

Liquid limit (%) = 39.49
Slope of flow line = 0.144

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.18	20.49	19.24	15.51
2	11.07	19.63	18.48	15.52
3	11.03	20.66	19.36	15.61
4	11.15	20.23	19.02	15.37

Plastic limit (%) = 15.50



Liquid limit (%) = 39
Plastic limit (%) = 16
Plasticity index (%) = 23

Prepared by: [Signature]

Date: 8/29/2022

Checked by: [Signature]

Date: 8/29/22



LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming

Analyst name: H. Patel

Project: US Route 20

Test date: July 29, 2022

WEI Job No: KE225009

Soil Sample ID: B7-NAW-05, S#5 (11-12.5 ft.)

Prep Method: air dried

Sample description: Brown SILTY CLAY

% retained on #40 sieve: 0%

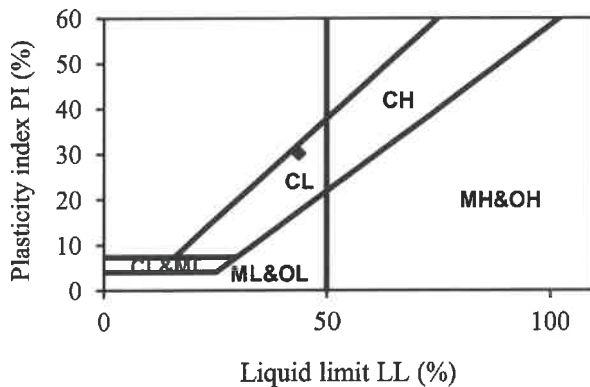
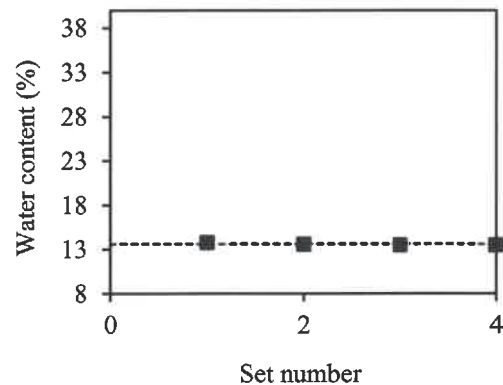
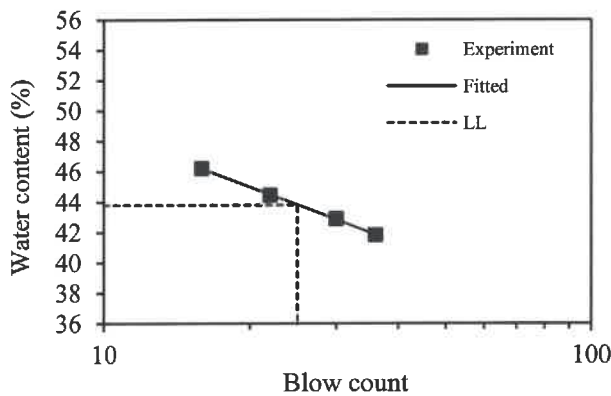
Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.13	19.10	16.75	36	41.81	41.85
2	11.08	19.84	17.21	30	42.90	42.83
3	11.19	18.73	16.41	22	44.44	44.50
4	11.08	19.40	16.77	16	46.22	46.21

Liquid limit (%) = 43.81

Slope of flow line = 0.122

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.34	21.76	20.50	13.76
2	11.67	21.04	19.92	13.58
3	11.10	19.26	18.29	13.49
4	11.27	19.19	18.25	13.47

Plastic limit (%) = 13.57



Liquid limit (%) = 44

Plastic limit (%) = 14

Plasticity index (%) = 30

Prepared by: [Signature]

Date: 8/29/2022

Checked by: [Signature]

Date: 8/29/22

LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming

Analyst name: K. Jacobs

Project: US Route 20

Test date: August 5, 2022

WEI Job No: KE225009

Soil Sample ID: B7-NAW-10, S#6+#7 (13.5-17.5 ft.)

Prep Method: air dried

Sample description: Gray CLAY LOAM

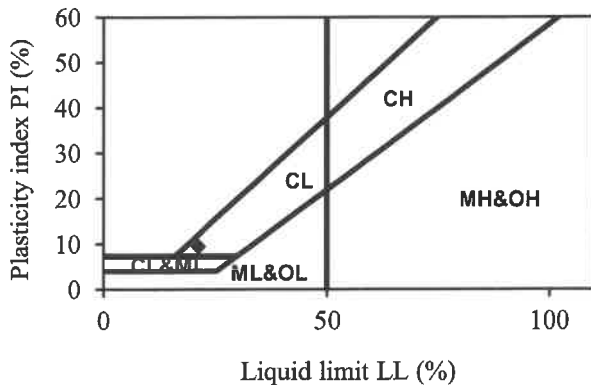
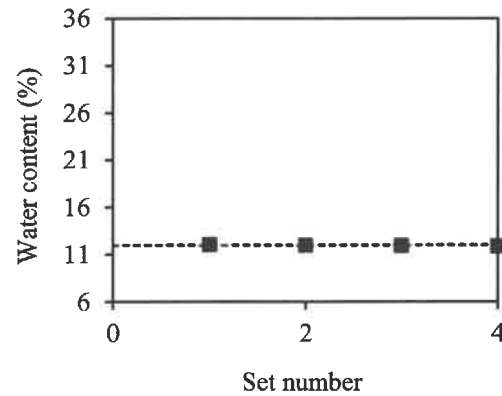
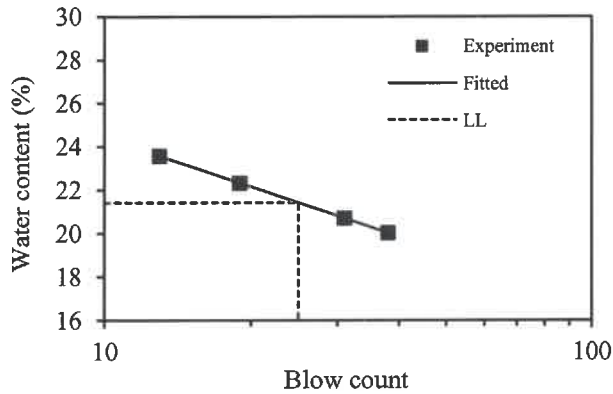
% retained on #40 sieve: 16%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.21	23.07	21.09	38	20.04	20.04
2	11.03	23.97	21.75	31	20.71	20.71
3	11.19	23.52	21.27	19	22.32	22.32
4	10.98	22.88	20.61	13	23.57	23.57

Liquid limit (%) = 21.42
Slope of flow line = 0.151

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.22	25.25	23.74	12.06
2	11.07	26.50	24.85	11.97
3	11.13	25.08	23.59	11.96
4	11.12	27.80	26.03	11.87

Plastic limit (%) = 11.97



Liquid limit (%) = 21
Plastic limit (%) = 12
Plasticity index (%) = 9

Prepared by: *[Signature]*

Date: 8/29/2022

Checked by: *[Signature]*

Date: 8/29/22

LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming

Analyst name: K. Jacob

Project: US Route 20

Test date: August 2, 2022

WEI Job No: KE225009

Soil Sample ID: B7-NAW-15, S#2 (3.5-5 ft.)

Prep Method: air dried

Sample description: Brown CLAY LOAM

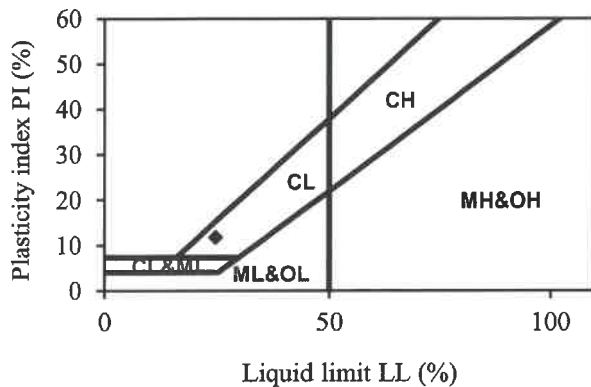
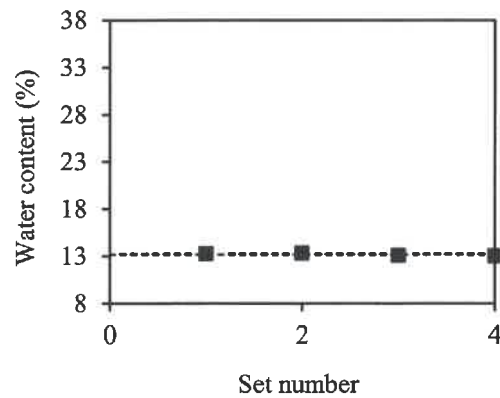
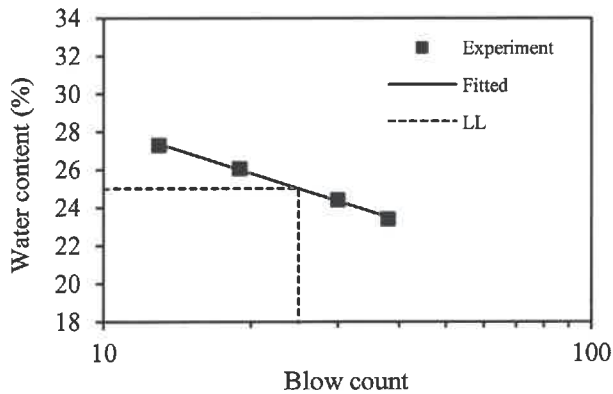
% retained on #40 sieve: 21%

Set #	Tare mass (g)	Tare with wet soil (g)	Tare with dry soil (g)	Blow count	Water content (%)	Water content fitted (%)
	Wc	Ww	Wd	N	w	
1	11.08	23.31	20.99	38	23.41	23.50
2	11.17	23.09	20.75	30	24.43	24.35
3	11.10	22.32	20.00	19	26.07	25.99
4	11.12	22.36	19.95	13	27.29	27.36

Set #	Tare mass (g)	Tare with wet soil (g)	Tare with dry soil (g)	Water content (%)
	Mc	Mw	Md	w
1	11.10	23.05	21.65	13.27
2	11.54	22.66	21.35	13.35
3	11.37	22.69	21.38	13.09
4	10.97	24.60	23.03	13.02

Liquid limit (%) = 25.00
Slope of flow line = 0.142

Plastic limit (%) = 13.18



Liquid limit (%) = 25
Plastic limit (%) = 13
Plasticity index (%) = 12

Prepared by:

Date: 8/29/2022

Checked by:

Date: 8/29/22

LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming

Analyst name: B. Miller

Project: US Route 20

Test date: August 1, 2022

WEI Job No: KE225009

Soil Sample ID: B10-NAW-01, S#3 (6-7.5 ft.)

Prep Method: air dried

Sample description: Brown SILTY CLAY

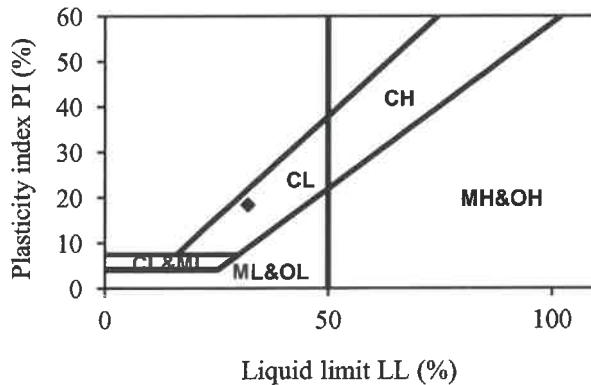
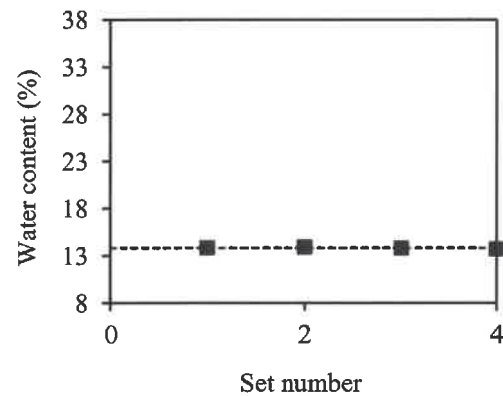
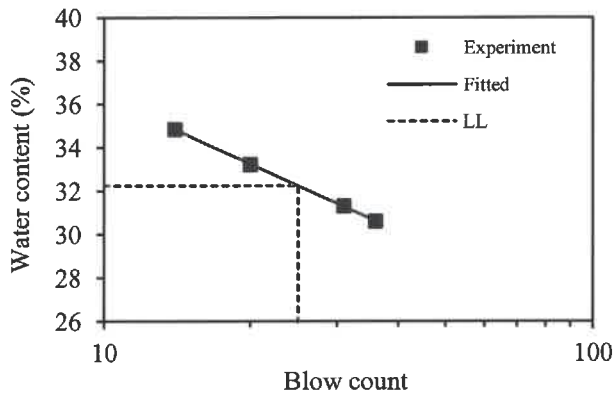
% retained on #40 sieve: 5%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.22	20.01	17.95	36	30.61	30.62
2	11.18	19.86	17.79	31	31.32	31.29
3	11.26	19.60	17.52	20	33.23	33.25
4	11.38	19.97	17.75	14	34.85	34.84

Liquid limit (%) = 32.25
Slope of flow line = 0.137

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.20	19.91	18.85	13.86
2	10.97	21.87	20.54	13.90
3	11.24	19.64	18.62	13.82
4	11.23	17.62	16.85	13.70

Plastic limit (%) = 13.82



Liquid limit (%) = 32
Plastic limit (%) = 14
Plasticity index (%) = 18

Prepared by: [Signature]

Date: 8/29/2022

Checked by: [Signature]

Date: 8/29/22



LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming
Project: US Route 20
WEI Job No: KE225009
Prep Method: air dried

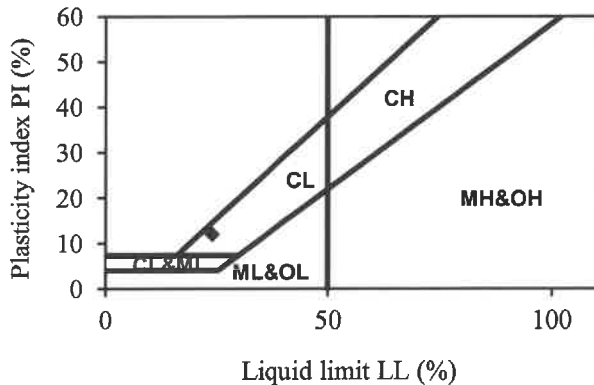
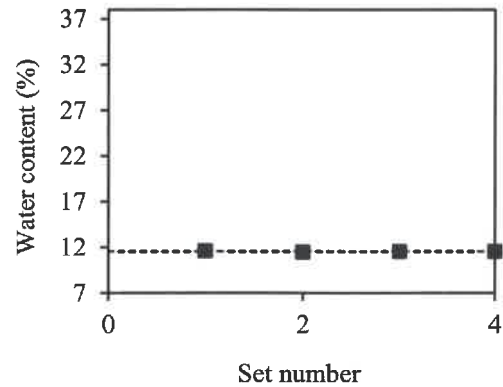
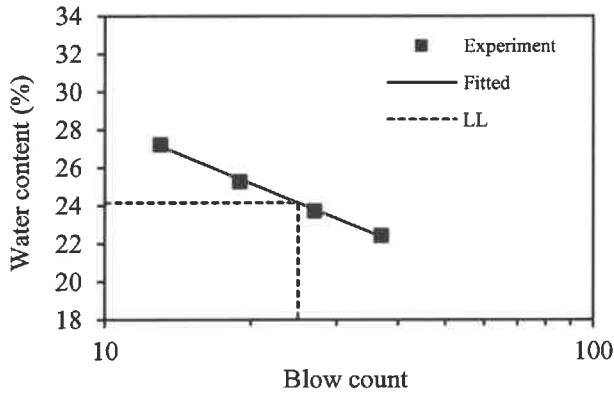
Analyst name: K. Jacob
Test date: August 1, 2022
Soil Sample ID: B10-NAW-02, S#10 (23.5-25 ft.)
Sample description: Brown CLAY LOAM
% retained on #40 sieve: 7%

Set #	Tare mass (g)	Tare with wet soil (g)	Tare with dry soil (g)	Blow count	Water content (%)	Water content fitted (%)
	Wc	Ww	Wd	N	w	
1	11.16	23.38	21.14	37	22.44	22.36
2	11.13	24.89	22.25	27	23.74	23.80
3	11.25	23.34	20.90	19	25.28	25.40
4	11.19	24.60	21.73	13	27.23	27.14

Liquid limit (%) = 24.15
Slope of flow line = 0.184

Set #	Tare mass (g)	Tare with wet soil (g)	Tare with dry soil (g)	Water content (%)
	Mc	Mw	Md	w
1	11.15	25.57	24.07	11.61
2	11.21	23.46	22.20	11.46
3	11.35	23.13	21.91	11.55
4	11.15	23.05	21.82	11.53

Plastic limit (%) = 11.54



Liquid limit (%) = 24
Plastic limit (%) = 12
Plasticity index (%) = 12

Prepared by: [Signature] Date: 8/29/2022
Checked by: [Signature] Date: 8/29/2022



LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming

Analyst name: K. Jacob

Project: US Route 20

Test date: August 2, 2022

WEI Job No: KE225009

Soil Sample ID: B11+13-NAW-01, S#1 (1-2.5 ft.)

Prep Method: air dried

Sample description: Brown Gravelly SANDY CLAY

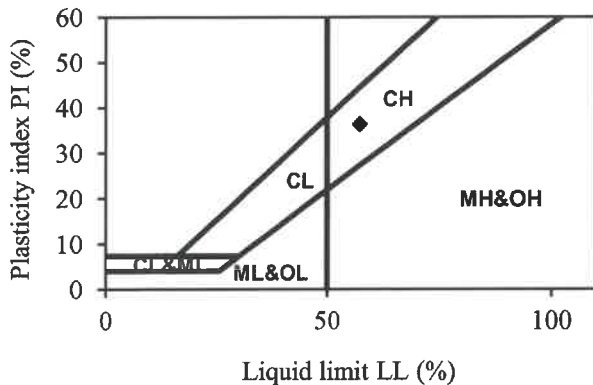
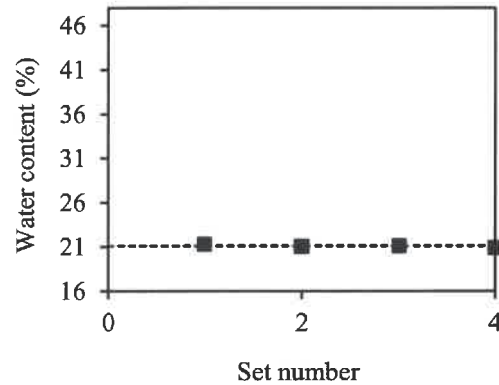
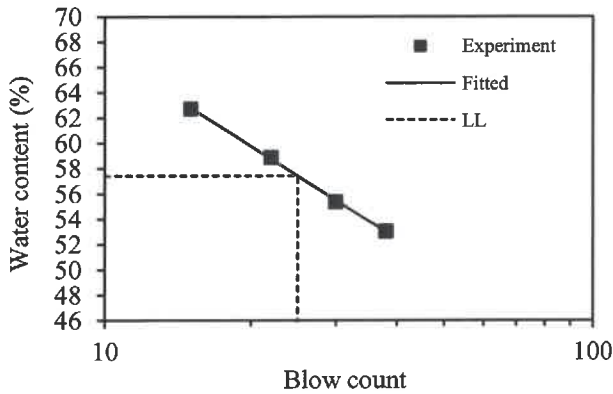
% retained on #40 sieve: 48%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.12	21.68	18.02	38	53.04	53.01
2	11.32	22.91	18.78	30	55.36	55.49
3	11.05	22.49	18.25	22	58.89	58.75
4	11.17	21.34	17.42	15	62.72	62.77

Liquid limit (%) = 57.40
Slope of flow line = 0.182

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.03	18.95	17.56	21.29
2	11.13	19.58	18.11	21.06
3	11.11	19.14	17.74	21.12
4	11.37	18.54	17.30	20.91

Plastic limit (%) = 21.09



Liquid limit (%) = 57
Plastic limit (%) = 21
Plasticity index (%) = 36

Prepared by:

Date: 8/29/2022

Checked by:

Date: 8/29/22



LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming
Project: US Route 20
WEI Job No: KE225009
Prep Method: air dried

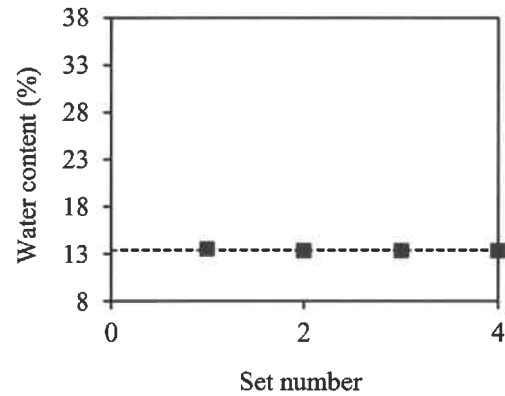
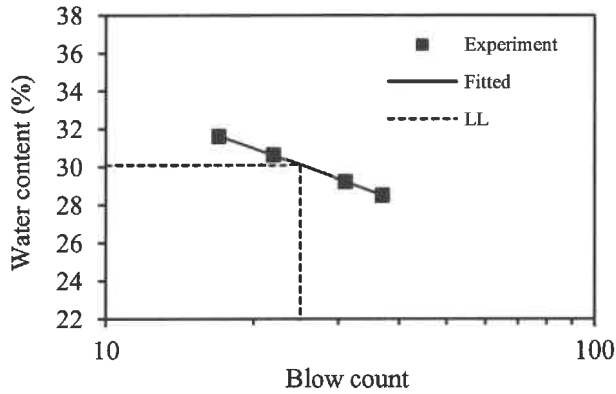
Analyst name: D. Morken
Test date: August 2, 2022
Soil Sample ID: B11+13-NAW-01, S#6 (13.5-15 ft.)
Sample description: Brown SILTY CLAY
% retained on #40 sieve: 7%

Set #	Tare mass (g)	Tare with wet soil (g)	Tare with dry soil (g)	Blow count	Water content (%)	Water content fitted (%)
	Wc	Ww	Wd	N	w	
1	11.39	19.55	17.74	37	28.50	28.52
2	11.14	20.07	18.05	31	29.23	29.23
3	11.17	19.91	17.86	22	30.64	30.61
4	11.32	21.31	18.91	17	31.62	31.64

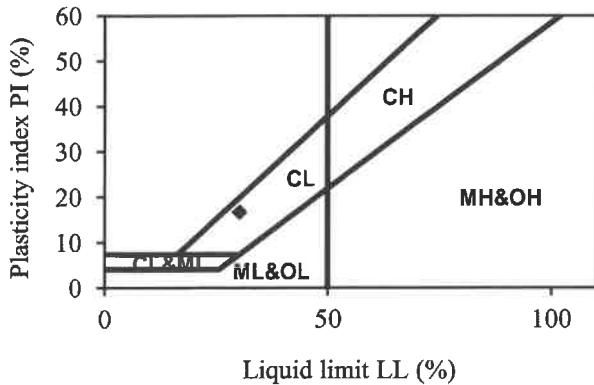
Liquid limit (%) = 30.09
Slope of flow line = 0.134

Set #	Tare mass (g)	Tare with wet soil (g)	Tare with dry soil (g)	Water content (%)
	Mc	Mw	Md	w
1	11.13	20.13	19.06	13.49
2	11.40	18.88	18.00	13.33
3	11.32	18.88	17.99	13.34
4	11.21	21.15	19.98	13.34

Plastic limit (%) = 13.38



Liquid limit (%) = 30
Plastic limit (%) = 13
Plasticity index (%) = 17



Prepared by: Date: 8/29/2022

Checked by: Date: 8/29/22





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LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

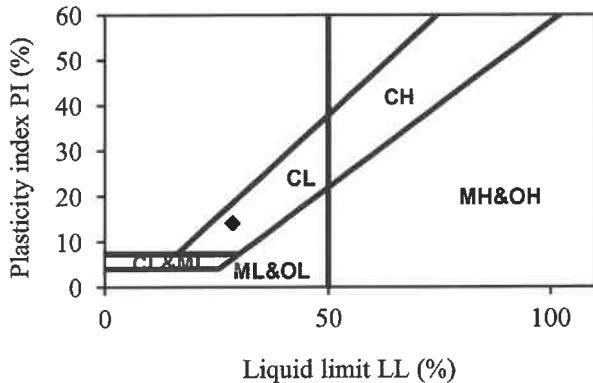
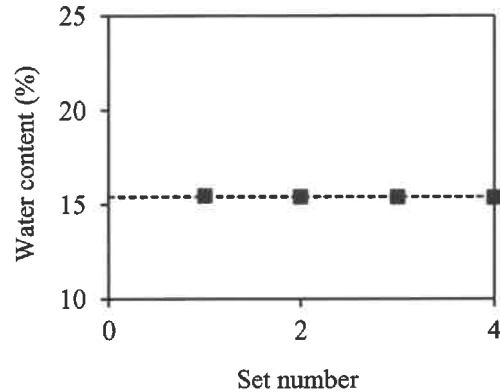
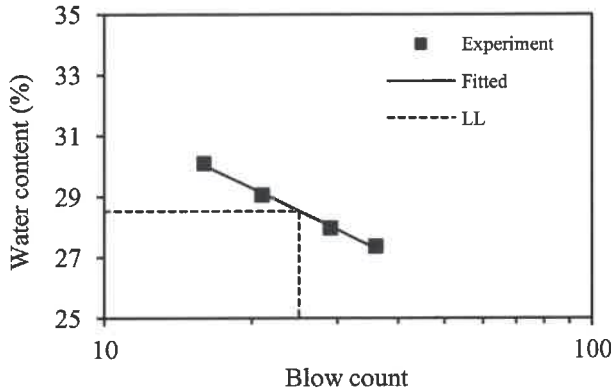
AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming
 Project: US Route 20
 WEI Job No: KE225009
 Prep Method: air dried

Analyst name: H. Patel
 Test date: July 29, 2022
 Soil Sample ID: B11+13-NAW-02, S#11 (26-27.5 ft.)
 Sample description: Brown SILTY CLAY LOAM
 % retained on #40 sieve: 1%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.17	20.34	18.37	36	27.36	27.29
2	11.14	20.43	18.40	29	27.96	28.03
3	11.11	20.26	18.20	21	29.06	29.12
4	11.06	20.70	18.47	16	30.09	30.04
Liquid limit (%) = 28.53 Slope of flow line = 0.118						

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.14	26.07	24.07	15.47
2	10.95	23.31	21.66	15.41
3	11.12	22.50	20.98	15.42
4	11.16	23.39	21.76	15.38
Plastic limit (%) = 15.42				



Liquid limit (%) = 29 Plastic limit (%) = 15 Plasticity index (%) = 14
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Prepared by: Date: 8/29/2022
 Checked by: Date: 8/29/22



LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming

Analyst name: H. Patel

Project: US Route 20

Test date: July 28, 2022

WEI Job No: KE225009

Soil Sample ID: B12-NAW-02, S#9 (21-22.5 ft.)

Prep Method: air dried

Sample description: Brown CLAY LOAM

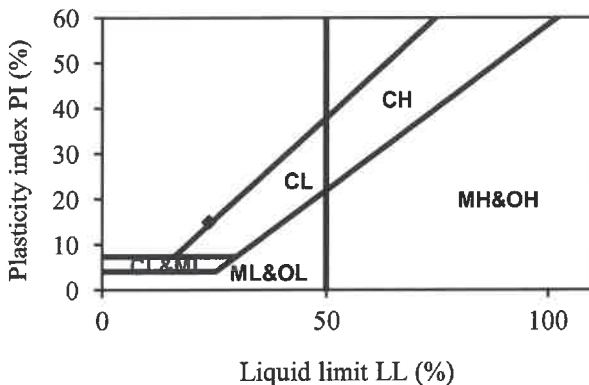
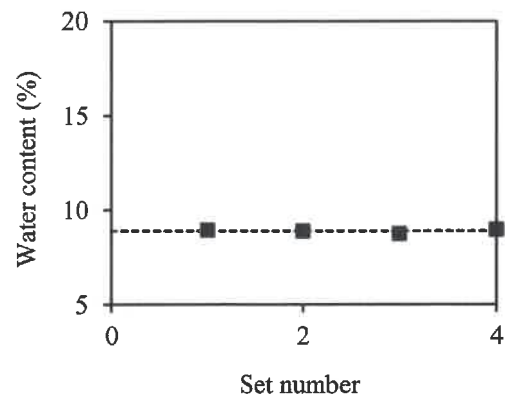
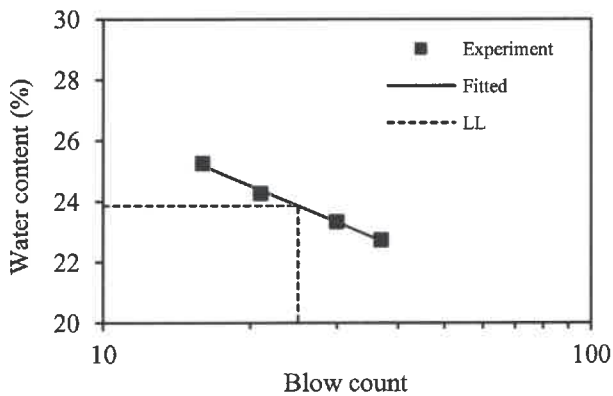
% retained on #40 sieve: 8%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.03	21.34	19.43	37	22.74	22.71
2	11.73	20.61	18.93	30	23.33	23.33
3	11.18	21.32	19.34	21	24.26	24.38
4	11.11	22.17	19.94	16	25.25	25.18

Liquid limit (%) = 23.86
Slope of flow line = 0.123

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.81	20.83	20.09	8.94
2	11.10	24.82	23.70	8.89
3	10.87	21.80	20.92	8.76
4	11.50	24.13	23.09	8.97

Plastic limit (%) = 8.89



Liquid limit (%) = 24
Plastic limit (%) = 9
Plasticity index (%) = 15

Prepared by: [Signature] Date: 8/29/2022

Checked by: [Signature] Date: 8/29/22



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LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming
 Project: US Route 20
 WEI Job No: KE225009
 Prep Method: air dried

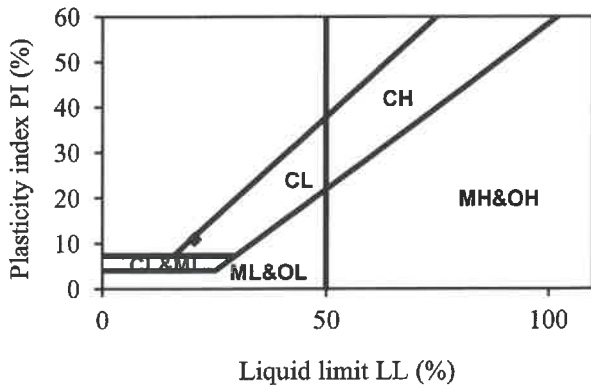
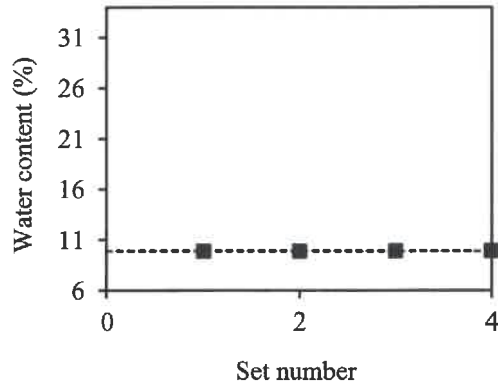
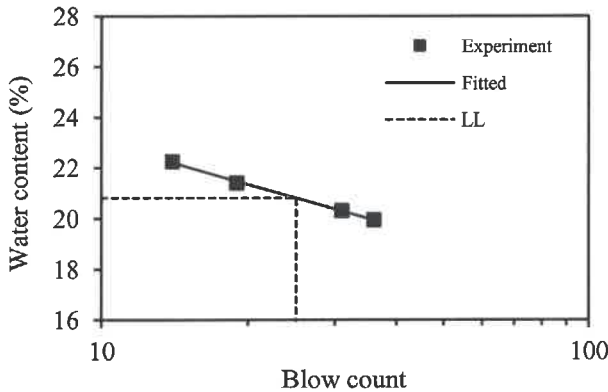
Analyst name: K. Jacob
 Test date: July 29, 2022
 Soil Sample ID: B12-NAW-02, S#6 (13.5-15 ft.)
 Sample description: Brown CLAY LOAM
 % retained on #40 sieve: 11%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.08	24.67	22.41	36	19.95	19.94
2	11.16	24.25	22.04	31	20.31	20.30
3	11.09	24.30	21.97	19	21.42	21.48
4	11.13	23.93	21.60	14	22.25	22.21

Liquid limit (%) = 20.82
Slope of flow line = 0.114

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.10	22.68	21.64	9.87
2	11.56	23.02	21.99	9.88
3	11.38	22.68	21.66	9.92
4	10.99	21.86	20.88	9.91

Plastic limit (%) = 9.89



Liquid limit (%) = 21
Plastic limit (%) = 10
Plasticity index (%) = 11

Prepared by: [Signature] Date: 8/29/22
 Checked by: [Signature] Date: 8/29/22



LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming
Project: US Route 20
WEI Job No: KE225009
Prep Method: air dried

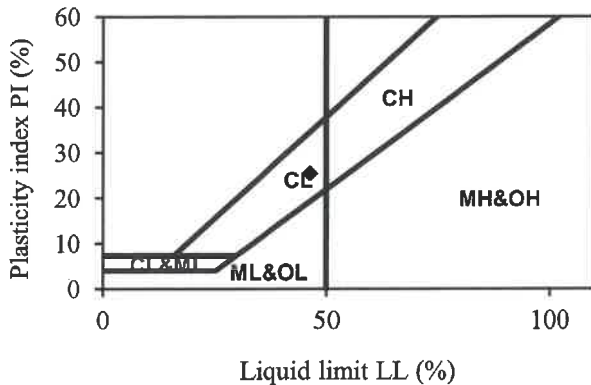
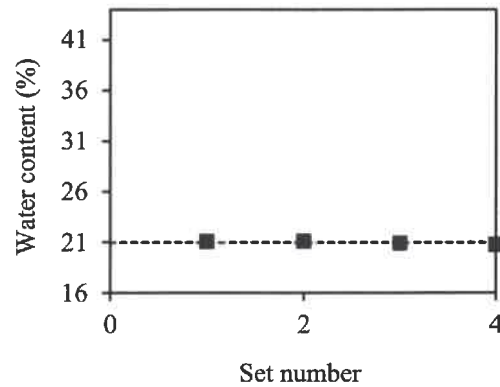
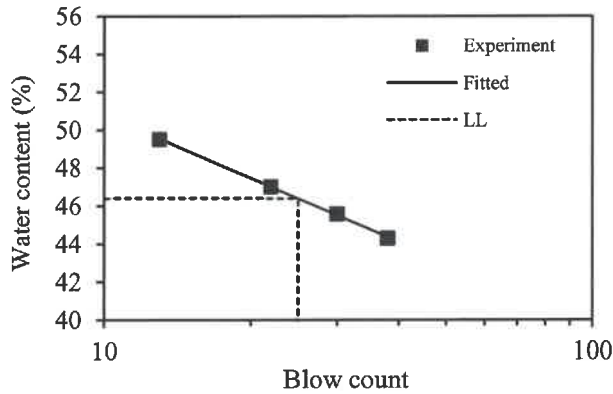
Analyst name: K. Jacob
Test date: August 1, 2022
Soil Sample ID: B14-NAW-01, S#2 (3.5-5 ft.)
Sample description: Gray CLAY LOAM
% retained on #40 sieve: 11%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.45	22.49	19.10	38	44.31	44.37
2	11.14	21.68	18.38	30	45.58	45.51
3	11.26	22.61	18.98	22	47.02	47.01
4	11.11	22.16	18.50	13	49.53	49.55

Liquid limit (%) = 46.39
Slope of flow line = 0.103

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.36	20.55	18.95	21.08
2	11.04	19.65	18.15	21.10
3	10.97	19.18	17.76	20.91
4	11.21	20.52	18.92	20.75

Plastic limit (%) = 20.96



Liquid limit (%) = 46
Plastic limit (%) = 21
Plasticity index (%) = 25

Prepared by: *[Signature]* Date: 8/29/2022
Checked by: *[Signature]* Date: 8/29/2022

LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS
AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming
Project: US Route 20
WEI Job No: KE225009
Prep Method: air dried

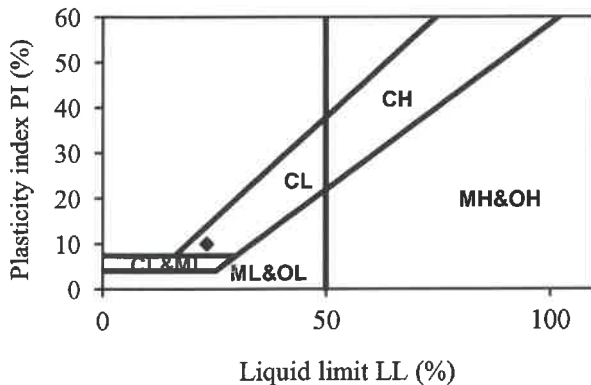
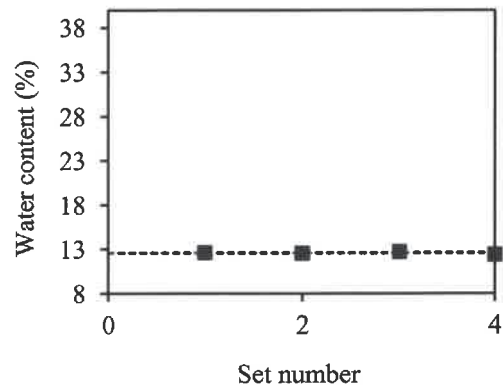
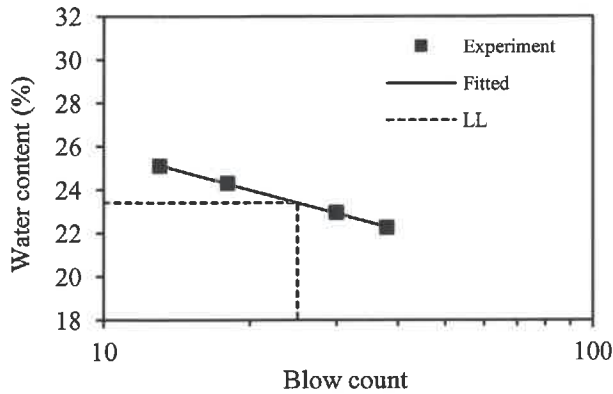
Analyst name: K. Jacob
Test date: August 1, 2022
Soil Sample ID: B14-NAW-02, S#7+#8 (16-20 ft.)
Sample description: Brown SILTY CLAY LOAM
% retained on #40 sieve: 11%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.32	22.30	20.30	38	22.27	22.30
2	11.27	24.07	21.68	30	22.96	22.93
3	11.29	23.05	20.75	18	24.31	24.28
4	11.02	22.33	20.06	13	25.11	25.14

Liquid limit (%) = 23.41
Slope of flow line = 0.112

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.15	25.09	23.53	12.60
2	11.05	24.50	23.00	12.55
3	11.28	23.95	22.52	12.72
4	11.13	25.00	23.47	12.40

Plastic limit (%) = 12.57



Liquid limit (%) = 23
Plastic limit (%) = 13
Plasticity index (%) = 10

Prepared by: [Signature] Date: 8/29/2022
 Checked by: [Signature] Date: 8/29/2022

LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming

Project: US Route 20

WEI Job No: KE225009

Prep Method: air dried

Analyst name: K. Jacob

Test date: August 2, 2022

Soil Sample ID: B14-NAW-08, S#1to#3 (1.0-7.5 ft.)

Sample description: Brown & Gray CLAY LOAM

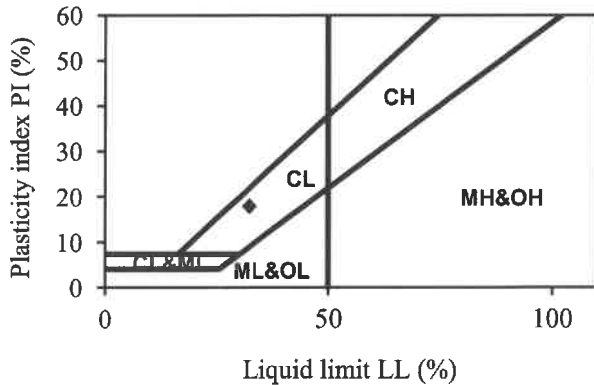
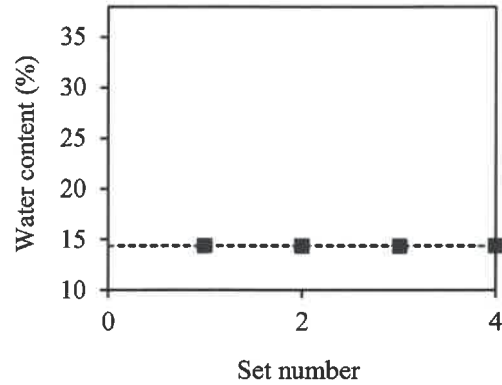
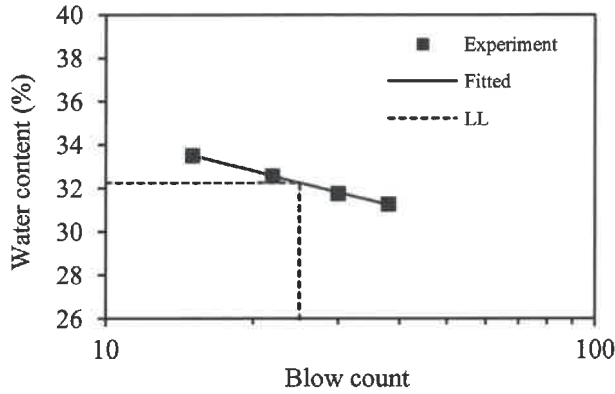
% retained on #40 sieve: 10%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.27	24.41	21.28	38	31.27	31.23
2	11.13	23.70	20.67	30	31.76	31.81
3	11.06	22.62	19.78	22	32.57	32.56
4	11.12	21.36	18.79	15	33.51	33.50

Liquid limit (%) = 32.25
Slope of flow line = 0.075

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.08	23.17	21.65	14.38
2	11.35	22.03	20.69	14.35
3	11.10	21.46	20.16	14.35
4	11.05	20.20	19.05	14.38

Plastic limit (%) = 14.36



Liquid limit (%) = 32
Plastic limit (%) = 14
Plasticity index (%) = 18

Prepared by:

Date: 8/29/2022

Checked by:

Date: 8/29/22



1145 North Main Street
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LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS
AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming
Project: US Route 20
WEI Job No: KE225009
Prep Method: air dried

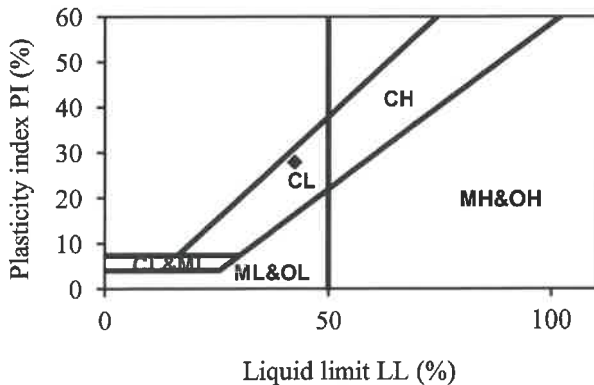
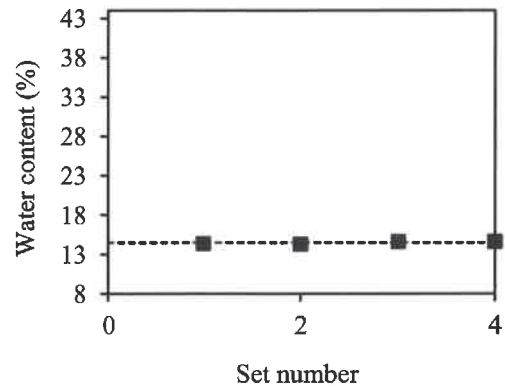
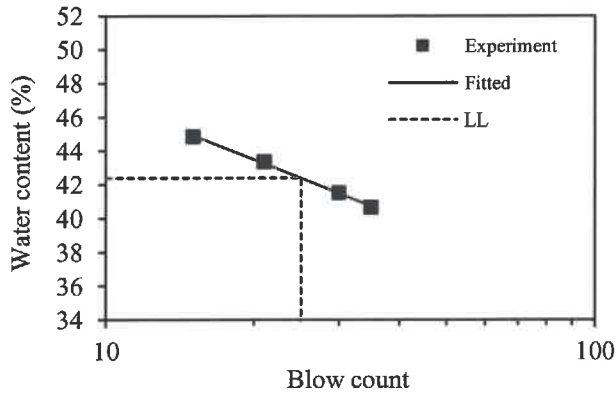
Analyst name: B. Miller
Test date: August 1, 2022
Soil Sample ID: B15-NAW-06, S#2+#4 (6-10 ft.)
Sample description: Brown CLAY
% retained on #40 sieve: 8%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.16	20.88	18.07	35	40.67	40.74
2	11.11	20.72	17.90	30	41.53	41.50
3	10.95	19.28	16.76	21	43.37	43.26
4	11.14	19.44	16.87	15	44.85	44.92

Liquid limit (%) = 42.40
Slope of flow line = 0.116

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.08	18.88	17.90	14.37
2	11.12	20.40	19.24	14.29
3	11.14	19.85	18.74	14.61
4	11.17	20.97	19.72	14.62

Plastic limit (%) = 14.47



Liquid limit (%) = 42
Plastic limit (%) = 14
Plasticity index (%) = 28

Prepared by: *[Signature]* Date: 8/29/2022
 Checked by: *[Signature]* Date: 8/29/2022



LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS
AASHTO T 89, T 90 / ASTM D 4318

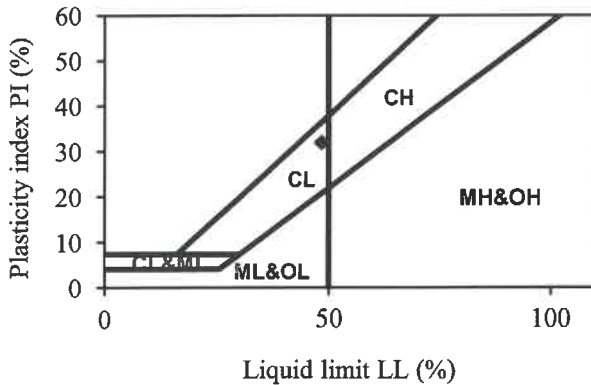
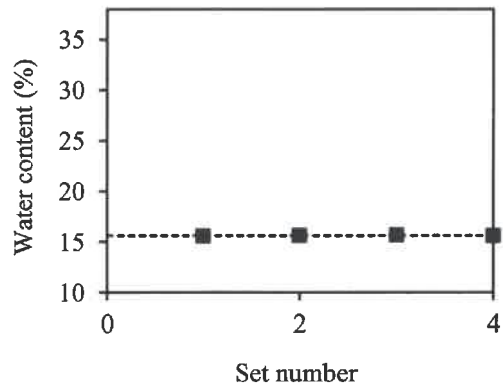
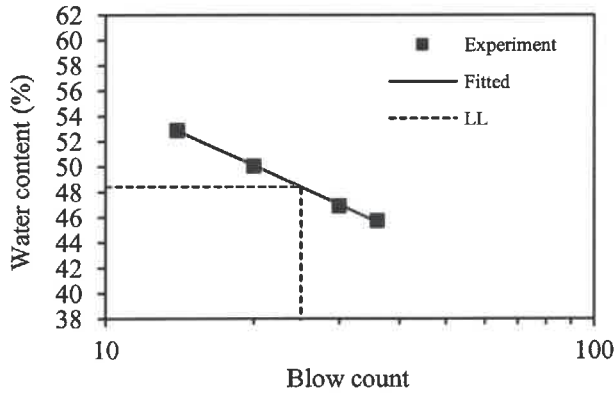
Client: Gannett Fleming
Project: US Route 20
WEI Job No: KE225009
Prep Method: air dried

Analyst name: K. Jacob
Test date: July 29, 2022
Soil Sample ID: B16-NAW-01, S#2 (3.5-5 ft.)
Sample description: Brown SILTY CLAY
% retained on #40 sieve: 0%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	10.99	22.65	18.99	36	45.75	45.63
2	11.15	22.27	18.72	30	46.90	47.02
3	11.16	21.92	18.33	20	50.07	50.12
4	11.08	21.40	17.83	14	52.89	52.84
Liquid limit (%) = 48.41						
Slope of flow line = 0.155						

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.32	20.29	19.08	15.59
2	11.24	20.48	19.23	15.64
3	11.11	18.05	17.11	15.67
4	11.04	19.70	18.53	15.62

Plastic limit (%) = 15.63



Liquid limit (%) = 48
Plastic limit (%) = 16
Plasticity index (%) = 32

Prepared by: [Signature] Date: 8/29/2022
 Checked by: [Signature] Date: 9/29/2022

LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX OF SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming
Project: US Route 20
WEI Job No: KE225009
Prep Method: air dried

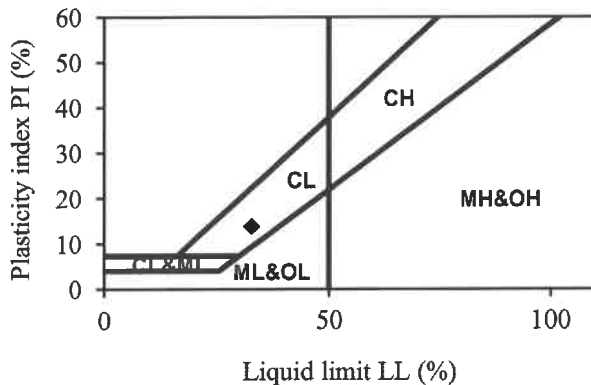
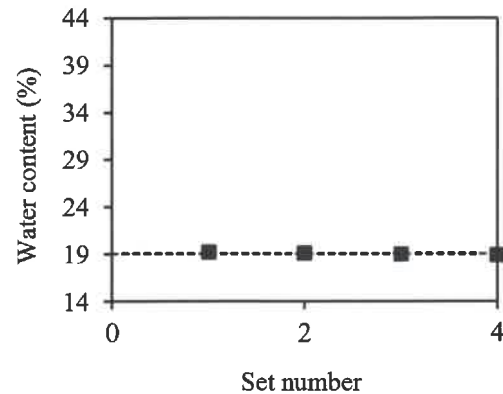
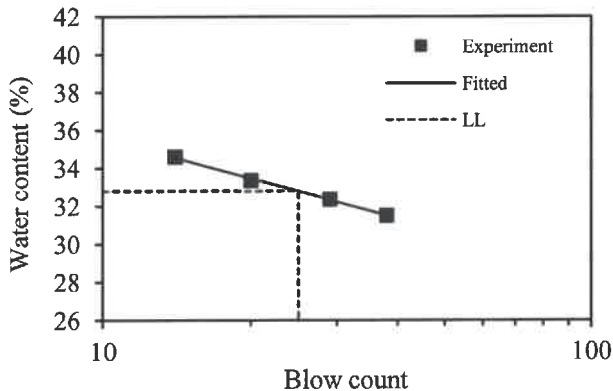
Analyst name: K. Jacob
Test date: July 29, 2022
Soil Sample ID: B17-NAW-01, S#1+#2 (1-5 ft.)
Sample description: Gray GRAVELLY SANDY LOAM
% retained on #40 sieve: 48%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.25	23.10	20.26	38	31.52	31.52
2	10.94	24.39	21.10	29	32.38	32.34
3	11.16	21.99	19.28	20	33.37	33.47
4	11.31	21.81	19.11	14	34.62	34.56

Liquid limit (%) = 32.79
Slope of flow line = 0.092

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.17	21.16	19.55	19.21
2	11.07	22.97	21.06	19.12
3	11.03	22.06	20.30	18.99
4	11.15	22.54	20.73	18.89

Plastic limit (%) = 19.05



Liquid limit (%) = 33
Plastic limit (%) = 19
Plasticity index (%) = 14

Prepared by: Date: 8/29/2022
 Checked by: Date: 8/29/22



LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming

Project: US Route 20

WEI Job No: KE225009

Prep Method: air dried

Analyst name: K. Jacob

Test date: July 29, 2022

Soil Sample ID: B17-NAW-08, S#2 (3.5-5 ft.)

Sample description: Brown SILTY CLAY

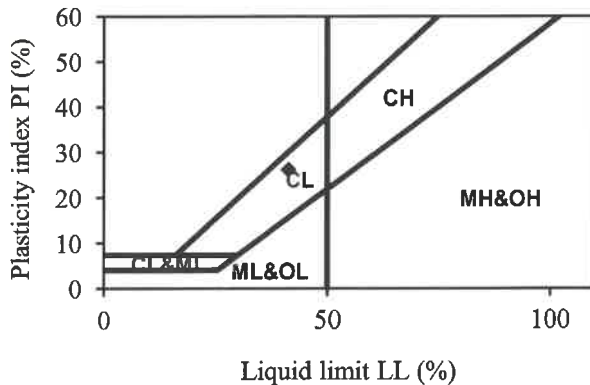
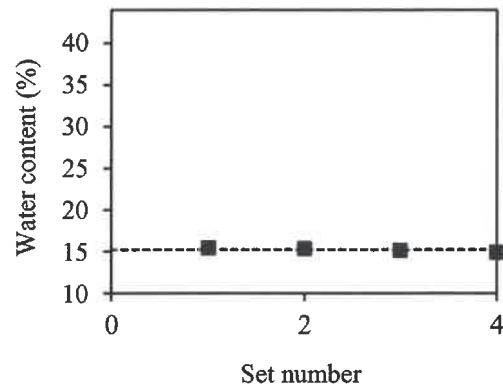
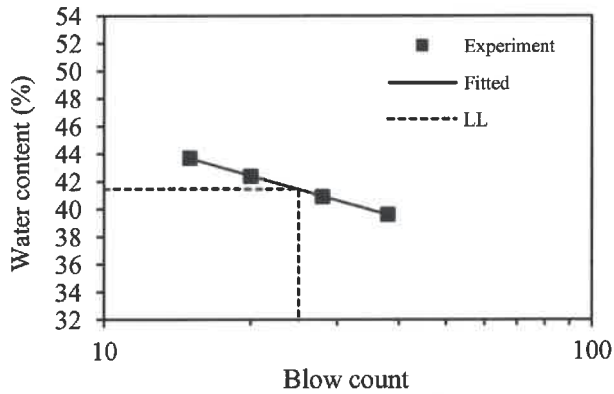
% retained on #40 sieve: 0%

Set #	Tare mass (g)	Tare with wet soil (g)	Tare with dry soil (g)	Blow count	Water content (%)	Water content fitted (%)
	W_c	W_w	W_d	N	w	
1	11.03	23.47	19.94	38	39.62	39.59
2	11.32	23.55	20.00	28	40.90	40.93
3	11.06	22.08	18.80	20	42.38	42.41
4	11.21	22.85	19.31	15	43.70	43.67

Liquid limit (%) = 41.43
 Slope of flow line = 0.106

Set #	Tare mass (g)	Tare with wet soil (g)	Tare with dry soil (g)	Water content (%)
	M_c	M_w	M_d	w
1	11.13	23.48	21.83	15.42
2	11.13	23.00	21.42	15.35
3	11.10	22.22	20.76	15.11
4	11.39	23.33	21.78	14.92

Plastic limit (%) = 15.20



Liquid limit (%) = 41
 Plastic limit (%) = 15
 Plasticity index (%) = 26

Prepared by: N. Cox

Date: 8/29/2022

Checked by: AZ

Date: 8/29/22

LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming
Project: US Route 20
WEI Job No: KE225009
Prep Method: air dried

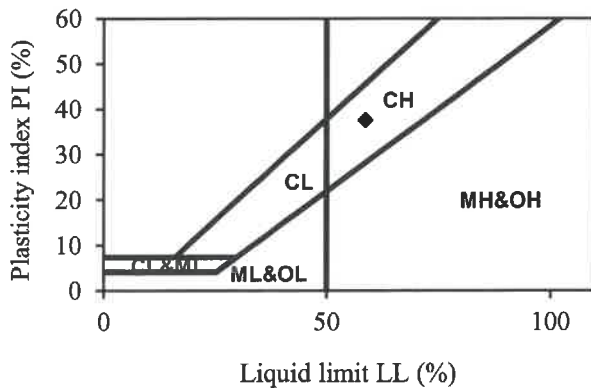
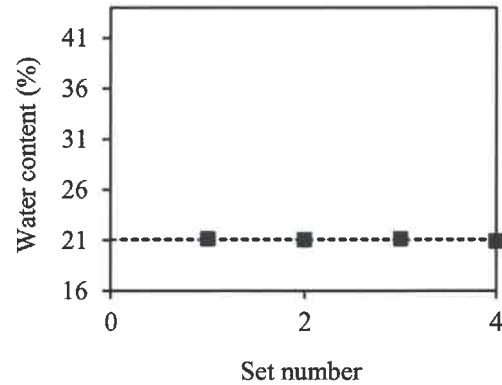
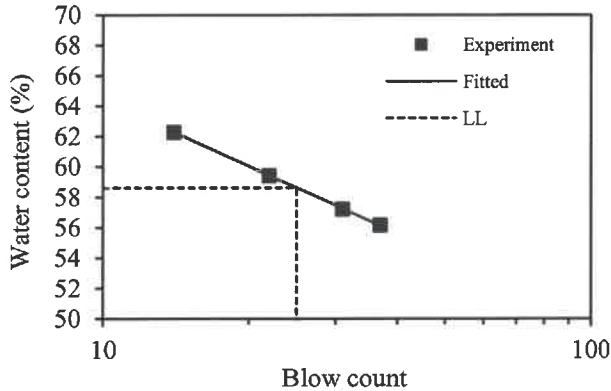
Analyst name: K. Jacob
Test date: August 1, 2022
Soil Sample ID: B17-NAW-10, S#4 (8.5-10 ft.)
Sample description: Black GRAVELLY CLAY
% retained on #40 sieve: 37%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.11	22.15	18.18	37	56.15	56.13
2	11.41	20.45	17.16	31	57.22	57.25
3	11.06	20.80	17.17	22	59.41	59.42
4	11.25	22.61	18.25	14	62.29	62.28

Liquid limit (%) = 58.61
Slope of flow line = 0.107

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.29	20.00	18.48	21.14
2	11.21	20.30	18.72	21.04
3	11.27	22.04	20.16	21.15
4	11.01	19.80	18.28	20.91

Plastic limit (%) = 21.06



Liquid limit (%) = 59
Plastic limit (%) = 21
Plasticity index (%) = 38

Prepared by: [Signature] Date: 8/29/2022

Checked by: [Signature] Date: 8/29/2022

LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming
Project: US Route 20
WEI Job No: KE225009
Prep Method: air dried

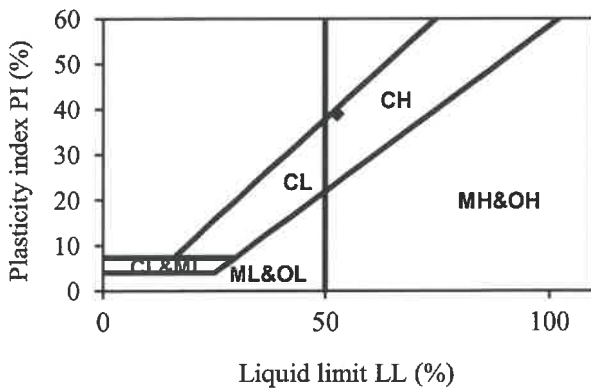
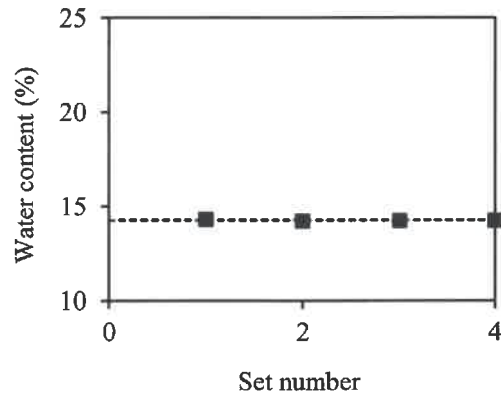
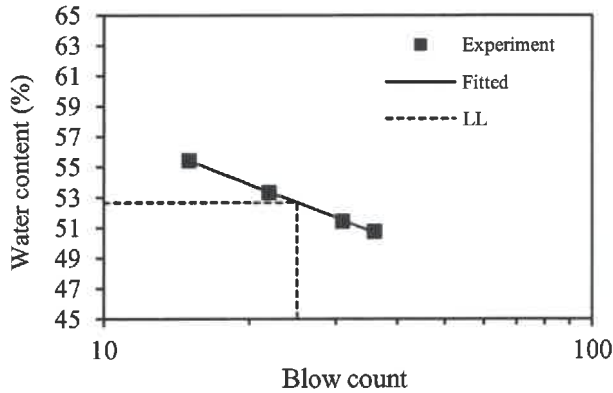
Analyst name: H. Patel
Test date: July 29, 2022
Soil Sample ID: B18-NAW-03, S#2 (3.5-5 ft.)
Sample description: Brown SILTY CLAY
% retained on #40 sieve: 0%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.14	20.05	17.05	36	50.76	50.70
2	11.17	19.09	16.40	31	51.43	51.50
3	11.40	18.30	15.90	22	53.33	53.35
4	11.41	24.73	19.98	15	55.43	55.41

Liquid limit (%) = 52.66
Slope of flow line = 0.101

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.05	16.88	16.15	14.31
2	11.10	19.45	18.41	14.23
3	11.11	18.49	17.57	14.24
4	11.33	19.59	18.56	14.25

Plastic limit (%) = 14.26



Liquid limit (%) = 53
Plastic limit (%) = 14
Plasticity index (%) = 39

Prepared by:

Date: 8/29/2022

Checked by:

Date: 8/29/22

LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS
AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming
Project: US Route 20
WEI Job No: KE225009
Prep Method: air dried

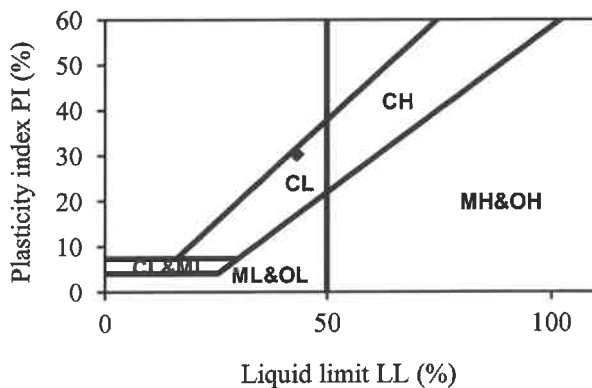
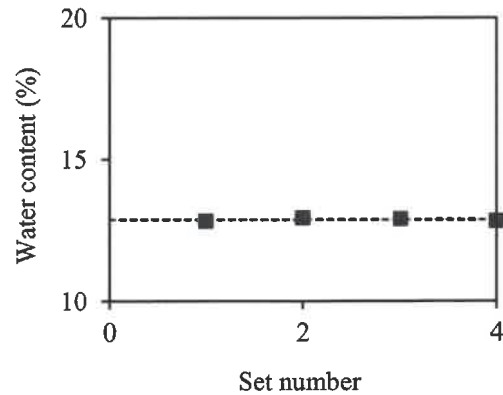
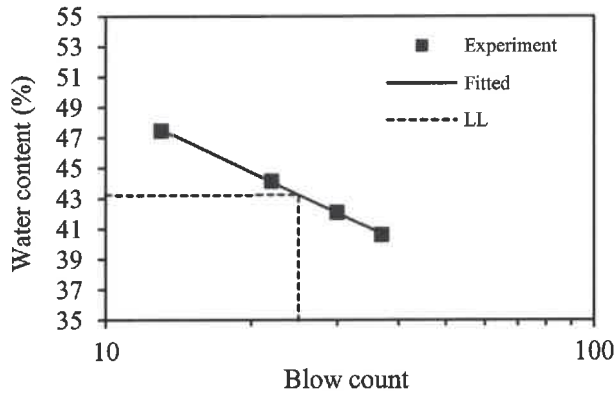
Analyst name: H. Patel
Test date: July 29, 2022
Soil Sample ID: B18-NAW-03, S#3 (6-7.5 ft.)
Sample description: Brown SILTY CLAY
% retained on #40 sieve: 0%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.08	20.81	18.00	37	40.61	40.68
2	11.33	20.04	17.46	30	42.09	42.05
3	11.21	19.34	16.85	22	44.15	44.08
4	11.23	21.73	18.35	13	47.47	47.52

Liquid limit (%) = 43.24
Slope of flow line = 0.148

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.23	20.82	19.73	12.82
2	11.08	19.72	18.73	12.94
3	11.16	21.13	19.99	12.91
4	11.14	21.34	20.18	12.83

Plastic limit (%) = 12.88



Liquid limit (%) = 43
Plastic limit (%) = 13
Plasticity index (%) = 30

Prepared by: [Signature]

Date: 8/29/2022

Checked by: [Signature]

Date: 8/29/2022

LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming
Project: US Route 20
WEI Job No: KE225009
Prep Method: air dried

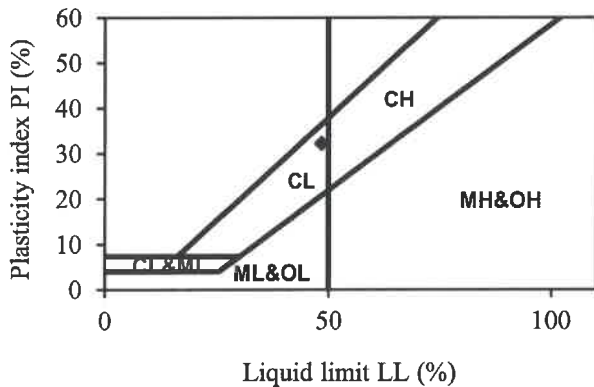
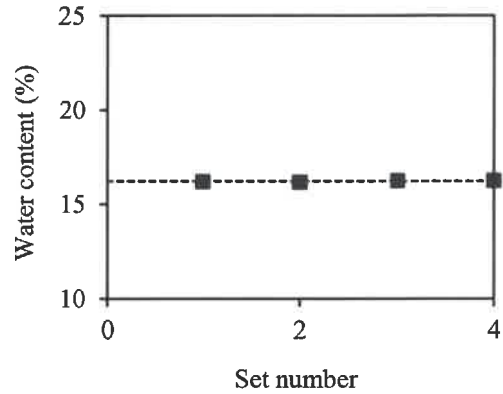
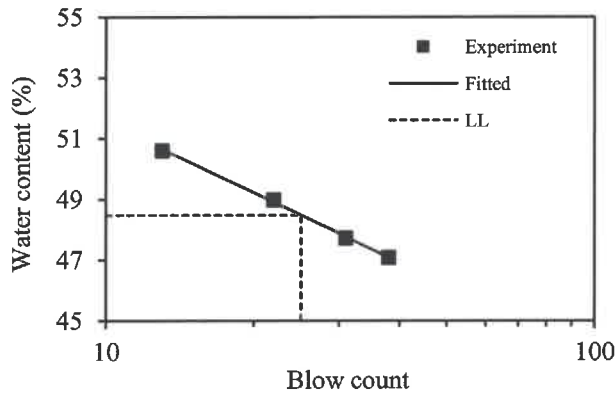
Analyst name: H. Patel
Test date: July 28, 2022
Soil Sample ID: B20-NAW-03, S#1+2 (1-5 ft.)
Sample description: Brown SILTY CLAY
% retained on #40 sieve: 0%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.36	20.17	17.35	38	47.08	47.09
2	11.30	22.32	18.76	31	47.72	47.76
3	11.70	20.46	17.58	22	48.98	48.90
4	11.13	23.54	19.37	13	50.61	50.64

Liquid limit (%) = **48.47**
 Slope of flow line = **0.068**

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.00	21.40	19.95	16.20
2	11.00	22.71	21.08	16.17
3	11.35	21.86	20.39	16.26
4	10.94	20.67	19.31	16.25

Plastic limit (%) = **16.22**



Liquid limit (%) = **48**
 Plastic limit (%) = **16**
 Plasticity index (%) = **32**

Prepared by: Date: 8/29/2022

Checked by: Date: 8/19/22



LIQUID LIMIT, PLASTIC LIMIT, and PLASTICITY INDEX of SOILS

AASHTO T 89, T 90 / ASTM D 4318

Client: Gannett Fleming

Analyst name: K. Jacob

Project: US Route 20

Test date: August 2, 2022

WEI Job No: KE225009

Soil Sample ID: B20-NAW-04 / 11, S#4+#5 (8.5-12.5 ft.)

Prep Method: air dried

Sample description: Brown CLAY

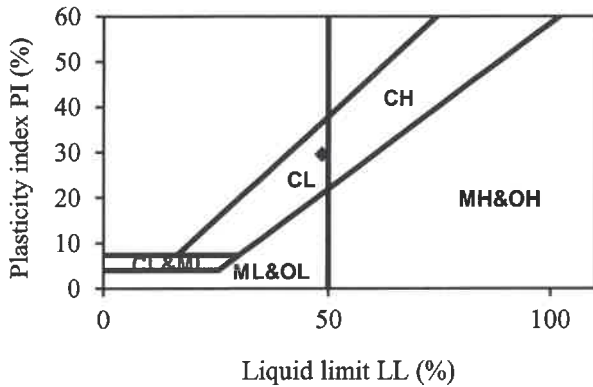
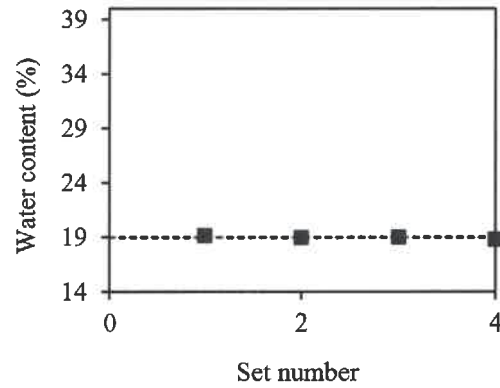
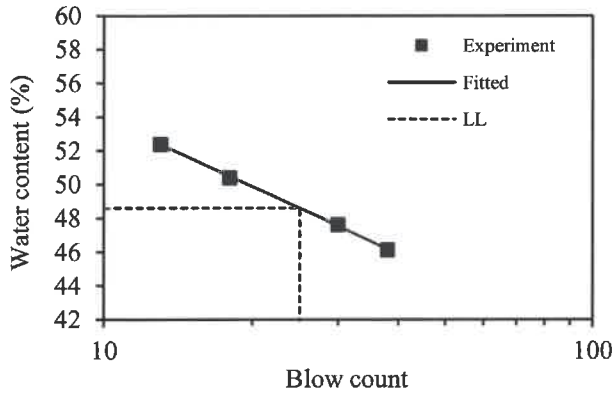
% retained on #40 sieve: 31%

Set #	Tare mass (g) Wc	Tare with wet soil (g) Ww	Tare with dry soil (g) Wd	Blow count N	Water content (%) w	Water content fitted (%)
1	11.02	22.17	18.65	38	46.13	46.17
2	11.13	22.60	18.90	30	47.62	47.54
3	11.20	22.57	18.76	18	50.40	50.48
4	11.06	21.24	17.74	13	52.40	52.36

Liquid limit (%) = 48.59
 Slope of flow line = 0.117

Set #	Tare mass (g) Mc	Tare with wet soil (g) Mw	Tare with dry soil (g) Md	Water content (%) w
1	11.32	19.59	18.26	19.16
2	11.24	20.45	18.98	18.99
3	11.12	20.70	19.17	19.01
4	11.03	19.43	18.10	18.81

Plastic limit (%) = 18.99



Liquid limit (%) = 49
 Plastic limit (%) = 19
 Plasticity index (%) = 30

Prepared by: [Signature]

Date: 8/29/2022

Checked by: [Signature]

Date: 8/29/22

