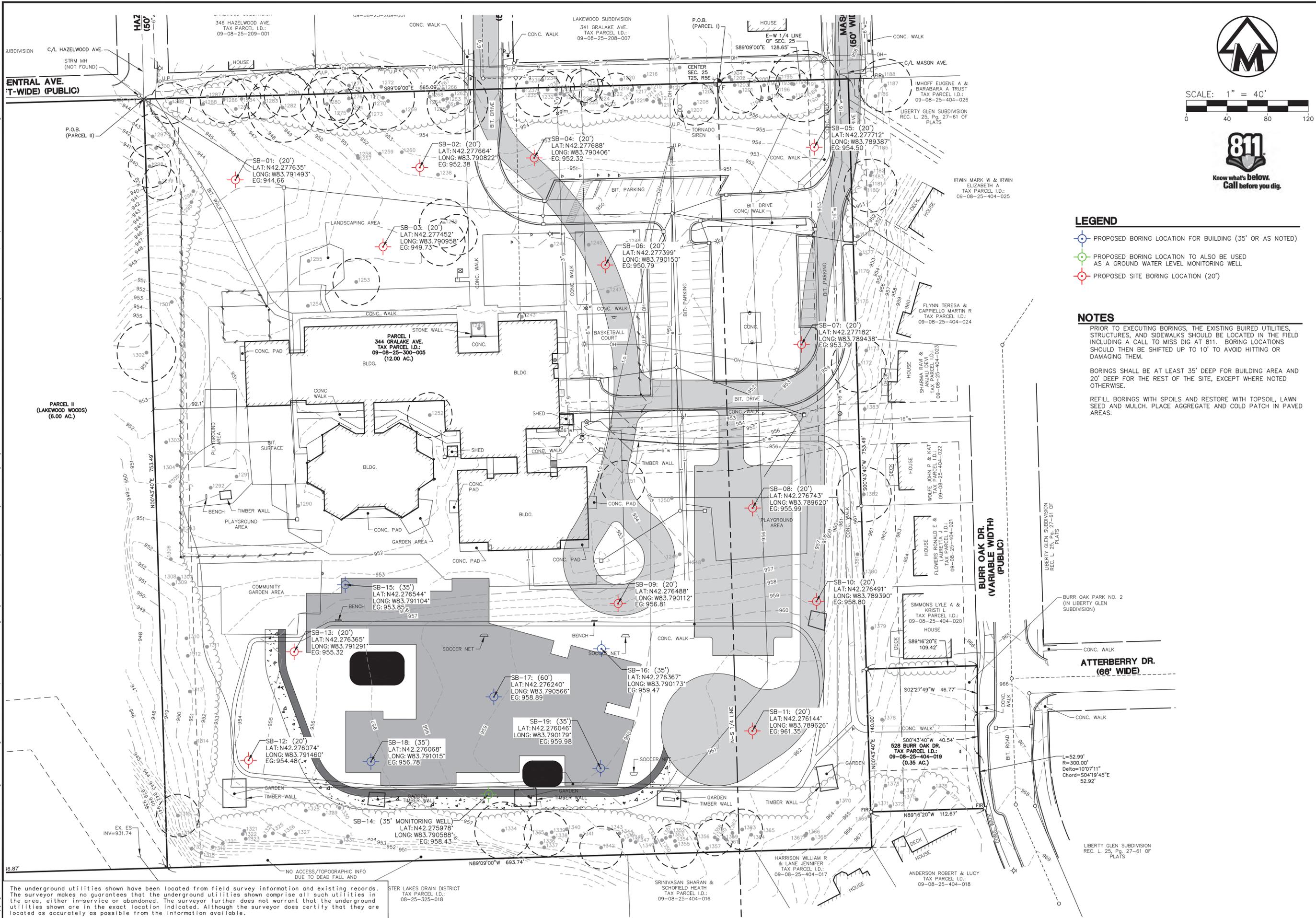
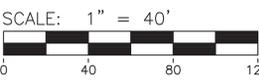


M:\Civ\134_Proj\2024\24041\Exhibits\24041-SB.dwg, 5/17/2024, 3:55 PM, Jeremy A. Matthei, Layout 1, MLLC PDF.pst
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 SCALE: 1" = 40'


 Know what's below.
 Call before you dig.

- LEGEND**
-  PROPOSED BORING LOCATION FOR BUILDING (35' OR AS NOTED)
 -  PROPOSED BORING LOCATION TO ALSO BE USED AS A GROUND WATER LEVEL MONITORING WELL
 -  PROPOSED SITE BORING LOCATION (20')

- NOTES**
- PRIOR TO EXECUTING BORINGS, THE EXISTING BUIED UTILITIES, STRUCTURES, AND SIDEWALKS SHOULD BE LOCATED IN THE FIELD INCLUDING A CALL TO MISS DIG AT 811. BORING LOCATIONS SHOULD THEN BE SHIFTED UP TO 10' TO AVOID HITTING OR DAMAGING THEM.
 - BORINGS SHALL BE AT LEAST 35' DEEP FOR BUILDING AREA AND 20' DEEP FOR THE REST OF THE SITE, EXCEPT WHERE NOTED OTHERWISE.
 - REFILL BORINGS WITH SPOILS AND RESTORE WITH TOPSOIL, LAWN SEED AND MULCH. PLACE AGGREGATE AND COLD PATCH IN PAVED AREAS.

The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurate as possible from the information available.

STER LAKES DRAIN DISTRICT
 TAX PARCEL I.D.:
 08-25-325-018
 SRINIVASAN SHARAN &
 SCHOFIELD HEATH
 TAX PARCEL I.D.:
 09-08-25-404-016
 HARRISON WILLIAM R
 & LANE JENNIFER
 TAX PARCEL I.D.:
 09-08-25-404-017
 ANDERSON ROBERT & LUCY
 TAX PARCEL I.D.:
 09-08-25-404-018
 SIMMONS LYLE A &
 KRISTI L
 TAX PARCEL I.D.:
 09-08-25-404-020
 WOLFE JOHN P & KAT
 TAX PARCEL I.D.:
 09-08-25-404-022
 SHARMA RAVI &
 CAPPIELLO MARTIN R
 TAX PARCEL I.D.:
 09-08-25-404-023
 FLYNN TERESA &
 CAPPIELLO MARTIN R
 TAX PARCEL I.D.:
 09-08-25-404-024
 IRWIN MARK W & IRWIN
 ELIZABETH A
 TAX PARCEL I.D.:
 09-08-25-404-025
 IMHOFF EUGENE A &
 BARBARA A TRUST
 TAX PARCEL I.D.:
 09-08-25-404-026
 LIBERTY GLEN SUBDIVISION
 REC. L. 25, Pg. 27-61 OF
 PLATS
 BURR OAK DR.
 TAX PARCEL I.D.:
 09-08-25-404-019
 (0.35 AC.)
 L=52.99'
 R=300.00'
 Delta=109°7'11"
 Chord=504°19'45"E
 52.92'

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 BERRKLEY, MI 48072
 LINDSAY WOODS

PROJECT
AAPS LAKEWOOD ELEMENTARY
 344 GRALAKE AVE., ANN ARBOR, MI 48103
 SOIL BORING PLAN

DATE: 5/17/2024
SHEET OF
REV. DATE: 05/17/24
CADD:
ENG.:
PM:
TECH:

JOB No. 24041
FOR GEOTECH PROPOSAL

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.277635° Longitude: -83.791493°



Soil Boring No. **SB-01**

CONSULTING GROUP

SUBSURFACE PROFILE

SOIL SAMPLE DATA

ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 944.7 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay with trace gravel (12 inches)	1.0		3 5 4				
939.7		Very Stiff Brown Sandy Clay with trace silt and gravel	5	S-01	2 3 2	9	13.8		8000*
		Medium Compact Brown Silty Sand with trace clay	6.5	S-02	5 5 6	5	21.2		5000*
		Stiff Brown Sandy Clay with trace silt and gravel; occasional brown silty sand seams	8.0	S-03A			17.2		7000*
934.7			10	S-03B	2 3 3	11			
		Very Stiff to Hard Brown Sandy Clay with trace silt and gravel; occasional silty sand seams	11.8	S-04	7 9 14	6	21.9		3000*
929.7			15	S-05	3 5 6	23	13.0		9000*
924.7		End of Boring @ 20 ft	20.0	S-06		11	9.9		5000*
919.7			25						
914.7			30						
909.7			35						

PRELIMINARY
SUBJECT TO REVISION

SOIL / PAVEMENT BORING 243117.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/16/24

Total Depth: 20 ft
Drilling Date: June 14, 2024
Inspector: J. Anton
Contractor: Strata Drilling, Inc.
Driller: J. Haynor

Water Level Observation:
19 feet during drilling; dry upon completion

Notes:
Borehole collapsed at 11 ft after auger removal
* Calibrated Hand Penetrometer

Drilling Method:
3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
Auger Cuttings

Figure No. 1

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.277664° Longitude: -83.790406°



Soil Boring No. SB-02

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 952.4 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay with trace silt and gravel (12 inches)	1.0	S-01	6 7 10	17	12.0		9000*
947.4		Hard Brown Sandy Clay with trace silt and gravel	5	S-02	5 9 13	22	12.9		9000*
		(Gray Clay Seam @ 7 feet)	7.5	S-03	6 11 16	27	13.3		9000*
942.4		Medium Brown Clayey Sand with trace silt and gravel	10.0	S-04	2 4 2	6			
		Very Stiff Brown Sandy Clay with trace gravel	14.0	S-05A	3 6		11.7		6000*
937.4			15	S-05B	6 5	11	10.2		
		Stiff Gray Sandy Clay with trace silt and gravel (No Recovery) (Possible Cobbles)	20.0	S-06	3 4 6	10			
932.4		End of Boring @ 20 ft	20						
927.4			25						
922.4			30						
917.4			35						

PRELIMINARY
SUBJECT TO REVISION

SOIL / PAVEMENT BORING 243117.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/16/24

Total Depth: 20 ft
Drilling Date: June 14, 2024
Inspector: A. Tripathi
Contractor: Strata Drilling, Inc.
Driller: J. Haynor

Water Level Observation:
8 feet during and upon completion

Notes:
Borehole collapsed at 17 ft after auger removal
* Calibrated Hand Penetrometer

Drilling Method:
3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
Auger Cuttings

Figure No. 2

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.277452° Longitude: -83.790958°



Soil Boring No. **SB-03**

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 949.7 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay with trace silt and gravel (12 inches)	1.0		4 7				
		Very Stiff Brown Sandy Clay with trace silt and gravel		S-01	6	13	9.9		9000*
944.7			5.0	S-02	3 3 3	6	15.4		5000*
		Very Stiff Mottled Brown and Gray Sandy Clay with trace gravel	7.5	S-03	2 3 5	8	18.1		7500*
939.7		Loose Gray Sandy Silt with trace clay and gravel	10.0	S-04	3 3 3	6			
934.7		Loose Brown Clay and Sand with trace silt and gravel	15.0	S-05	WOH 2 3	5	22.8		
929.7		Very Stiff Gray Sandy Clay with trace silt and gravel	20.0	S-06	4 6 6	12	9.2		8000*
		End of Boring @ 20 ft							
924.7			25						
919.7			30						
914.7			35						

PRELIMINARY
SUBJECT TO REVISION

SOIL / PAVEMENT BORING 243117.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/16/24

Total Depth: 20 ft
Drilling Date: June 14, 2024
Inspector: J. Anton
Contractor: Strata Drilling, Inc.
Driller: J. Haynor

Water Level Observation:
Dry during drilling operations; wet cave measured at 17-1/2 feet upon removal of augers

Notes:
Borehole collapsed at 17 ft after auger removal
* Calibrated Hand Penetrometer

Drilling Method:
3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
Auger Cuttings

Figure No. 3

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.277688° Longitude: -83.790150°



Soil Boring No. **SB-04**

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 952.3 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Clayey Sand with trace gravel (11 inches)	0.9		3				
		Very Stiff Brown Clayey Sand with trace gravel and silt	2.5	S-01	4 6	10			
947.3		Stiff Mottled Brown and Gray Sandy Clay with trace silt	5	S-02	3 3 6	9	18.5		2000*
		(Possible Cobbles @ 6 feet)	6.0		5				
		Hard Brown Sandy Clay with trace gravel; occasional sand seams	7.5	S-03	6 6 11	17	12.8		9000*
942.3			10	S-04	6 10 13	23	11.6		9000*
937.3		Very Stiff Gray Sandy Clay with trace silt and gravel (Brown Clayey Sand Seam @ 13 feet)	15	S-05	4 8 9	17	12.5		7000*
			16.0						
932.3		Medium Compact Gray Clayey Sand with trace silt and gravel	20.0	S-06	5 7 7	14			
		End of Boring @ 20 ft	20						
927.3			25						
922.3			30						
917.3			35						

PRELIMINARY
SUBJECT TO REVISION

SOIL / PAVEMENT BORING 243117.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/16/24

Total Depth: 20 ft
 Drilling Date: June 14, 2024
 Inspector: J. Anton
 Contractor: Strata Drilling, Inc.
 Driller: J. Haynor

Water Level Observation:
18 feet during and upon completion

Notes:
Borehole collapsed at 18 ft after auger removal
* Calibrated Hand Penetrometer

Drilling Method:
3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
Auger Cuttings

Figure No. 4

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.277712° Longitude: -83.789387°



Soil Boring No. **SB-05**

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 954.5 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay with trace silt (4 inches)	0.3						
		Stiff Brown Clayey Sand with trace silt	2.5	S-01	2 4 3	7			2500*
949.5		Hard Mottled Brown and Gray Sandy Clay with trace silt and gravel	5	S-02	3 5 8	13	15.8		8000*
			10.0	S-03	4 5 10	15	13.8		9000*
944.5		Hard Gray Sandy Clay with trace silt and gravel	10	S-04	6 11 14	25	13.2		9000*
			15.0	S-05	4 8 10	18	12.8		9000*
939.5		Medium Compact Gray Silty Sand with trace gravel	19.0						
934.5		Medium Compact Gray Sandy Silt	20.0	S-06	5 8 7	15			
		End of Boring @ 20 ft							
929.5			25						
924.5			30						
919.5			35						

PRELIMINARY
SUBJECT TO REVISION

Total Depth: 20 ft
 Drilling Date: June 14, 2024
 Inspector: A. Gordon
 Contractor: Strata Drilling, Inc.
 Driller: J. Haynor

Water Level Observation:
 17 feet during drilling; 15 feet upon completion

Notes:
 Borehole collapsed at 18 ft after auger removal
 * Calibrated Hand Penetrometer

Drilling Method:
 3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
 Auger Cuttings

SOIL / PAVEMENT BORING 243117.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/16/24

Figure No. 5

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.277399° Longitude: -83.790150°



Soil Boring No. **SB-06**

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 950.8 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay (5 inches)	0.4						
		Medium Compact Mottled Brown and Gray Clayey Sand	3.0	S-01	5 8 10	18			
945.8		Very Stiff Mottled Brown and Gray Sandy Clay with trace silt	5	S-02	4 5 6	11	16.1		9000*
		(Occasional Gray Sand Seams)	7.5	S-03	3 3 5	8	20.1		6000*
940.8		Hard Brown Sandy Clay with trace silt	10.0	S-04	4 6 9	15	14.8		9000*
935.8		Very Stiff Gray Sandy Clay with trace silt and gravel	15	S-05	3 4 5	9	12.0		5500*
930.8		(Occasional Gray Silt Seams)	20.0	S-06	4 4 6	10	10.7		6500*
		End of Boring @ 20 ft	20						
925.8			25						
920.8			30						
915.8			35						

PRELIMINARY
SUBJECT TO REVISION

SOIL / PAVEMENT BORING 243117.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/16/24

Total Depth: 20 ft
Drilling Date: June 17, 2024
Inspector: J. Anton
Contractor: Strata Drilling, Inc.
Driller: J. Haynor

Water Level Observation:
Dry during drilling; wet cave measured at 18 feet upon removal of augers

Notes:
Borehole collapsed at 18 ft after auger removal
* Calibrated Hand Penetrometer

Drilling Method:
3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
Auger Cuttings

Figure No. 6

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.277182° Longitude: -83789438°



Soil Boring No. SB-07

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 953.8 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay with trace silt and gravel (2 inches)	0.2						
		Fill: Hard Mottled Brown and Gray Sandy Clay with trace silt and gravel	3.0	S-01	3 3 3	6	21.0		8000*
948.8		Hard Mottled Brown and Gray Sandy Clay with trace silt and gravel	5.0	S-02	4 7 9	16	12.8		9000*
		(Brown Sandy Sily Seam @ 6-1/2 feet) Hard Brown Sandy Clay with trace silt and gravel		S-03	5 5 6	11	14.0		8000*
943.8			10.0	S-04	5 6 10	16	14.6		9000*
		Soft Brown Sandy Clay with trace silt and gravel		S-05A	3 3 3		17.2		1700**
938.8			15	S-05B	2 2 2	5	12.9		900**
		Medium Gray Sandy Clay with trace silt and gravel (Brown Sand Seam @ 18-1/2 feet)		S-06	2 2 3	5	13.3		18000**
933.8			20.0						
		End of Boring @ 20 ft							
928.8			25						
923.8			30						
918.8			35						

PRELIMINARY
SUBJECT TO REVISION

SOIL / PAVEMENT BORING 243117.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/16/24

Total Depth: 20 ft
 Drilling Date: June 17, 2024
 Inspector: J. Anton
 Contractor: Strata Drilling, Inc.
 Driller: J. Haynor

Water Level Observation:
 18 feet during drilling; 13-1/2 feet upon completion

Notes:
 Borehole collapsed at 15 ft after auger removal
 * Calibrated Hand Penetrometer
 ** Torvane

Drilling Method:
 3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
 Auger Cuttings

Figure No. 7

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.276743° Longitude: -83.789620°



Soil Boring No. SB-08

CONSULTING GROUP

SUBSURFACE PROFILE

SOIL SAMPLE DATA

ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 956.0 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Playground Material: Woodchips (14 inches)	1.2		3 4 5	9	18.4		7000*
951.0		Very Stiff to Hard Brown Sandy Clay with trace silt and gravel	5	S-02	4 8 11	19	14.7		9000*
			7.5	S-03	8 12 17	29	15.0		9000*
946.0		Very Stiff Brown Sandy Clay with trace silt and gravel; occasional sand seams	10.0	S-04	5 6 7	13	14.0		4500*
941.0		Very Stiff Gray Sandy Clay with trace silt and gravel	15	S-05	3 5 7	12	11.9		7000*
936.0			20.0	S-06	3 4 7	11	14.2		4000*
		End of Boring @ 20 ft							
931.0			25						
926.0			30						
921.0			35						

PRELIMINARY
SUBJECT TO REVISION

SOIL / PAVEMENT BORING 243117.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/16/24

Total Depth: 20 ft
Drilling Date: June 17, 2024
Inspector: J. Anton
Contractor: Strata Drilling, Inc.
Driller: J. Haynor

Water Level Observation:
14 feet during drilling; 13 feet upon completion

Notes:
Borehole collapsed at 18-1/2 ft after auger removal
* Calibrated Hand Penetrometer

Drilling Method:
3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
Auger Cuttings

Figure No. 8

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.276488° Longitude: -83.790112°



Soil Boring No. SB-09

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 956.8 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay with silt and gravel (6 inches)	0.5		3				
		Hard Mottled Brown and Gray Sandy Clay with trace silt and gravel		S-01	5 6	11	15.8		9000*
951.8			5.0	S-02	5 10 11	21	13.1		9000*
		Hard Brown Sandy Clay with trace silt and gravel; occasional sand seams (Brown Clayey Sand Seam @ 7 feet)	7.5	S-03	5 10 13	23	13.0		9000*
946.8		(Gray Sandy Silt Seam @ 9-3/4 feet)	10	S-04	6 8 7	15	12.2		5000*
941.8		Stiff to Very Stiff Gray Sandy Clay with trace silt and gravel	15	S-05	3 5 5	10	12.5		3000*
936.8		(Brown Clayey Sand Seam @ 19-1/2 feet)	20.0	S-06	5 6 5	11	12.3		2000*
		End of Boring @ 20 ft							
931.8			25						
926.8			30						
921.8			35						

PRELIMINARY
SUBJECT TO REVISION

SOIL / PAVEMENT BORING 243117.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/16/24

Total Depth: 20 ft
 Drilling Date: June 20, 2024
 Inspector: J. Anton
 Contractor: Strata Drilling, Inc.
 Driller: J. Haynor

Water Level Observation:
 Dry during and upon completion

Notes:
 Borehole collapsed at 12 ft after auger removal
 * Calibrated Hand Penetrometer

Drilling Method:
 3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
 Auger Cuttings

Figure No. 9

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.276491° Longitude: -83.789390°



Soil Boring No. **SB-10**

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 958.8 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay with trace silt and gravel (4 inches)	0-3		3				
		Very Stiff Mottled Brown and Gray Sandy Clay with trace silt and gravel	2.5	S-01	4	9	15.8		8000*
953.8		Hard Brown Sandy Clay with trace silt and gravel	5	S-02	7	11	13.5		8000*
			7.5	S-03	13	23	12.5		9000*
948.8			10	S-04	7	13	11.7		6000*
		Very Stiff Gray Sandy Clay with trace silt and gravel	15	S-05	8	13	12.2		7000*
938.8		(Sand Seam @ 19-1/2 feet)	20	S-06	5	10	12.6		2000**
		End of Boring @ 20 ft	20						
933.8			25						
928.8			30						
923.8			35						

PRELIMINARY
SUBJECT TO REVISION

SOIL / PAVEMENT BORING 243117.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/16/24

Total Depth: 20 ft
 Drilling Date: June 17, 2024
 Inspector: J. Anton
 Contractor: Strata Drilling, Inc.
 Driller: J. Haynor

Water Level Observation:
 Dry during and upon completion of drilling

Notes:
 Borehole collapsed at 18-1/2 ft after auger removal
 * Calibrated Hand Penetrometer
 ** Torvane

Drilling Method:
 3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
 Auger Cuttings

Figure No. 10

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.276144° Longitude: -83.789626°



Soil Boring No. **SB-11**

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 961.4 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay with trace silt and gravel (3 inches)	0.3		5				
		Hard Mottled Brown and Gray Sandy Clay with trace silt and gravel	2.5	S-01	9	15	13.9		9000*
956.4		Very Stiff Mottled Brown and Gray Sandy Clay with trace silt and gravel	5	S-02	7	14	13.1		6000*
		Medium Compact Brown Silty Sand with trace gravel; occasional silt seams	6.0		4				
		Hard Brown Sandy Clay with trace silt and gravel	7.5	S-03	7	13			
951.4			10.0	S-04	9	17	13.6		9000*
		Stiff Gray Sandy Clay with trace silt and gravel	15	S-05	6	10	13.4		2000*
946.4			20.0	S-06	9	15	12.5		4000*
941.4		End of Boring @ 20 ft	20						
936.4			25						
931.4			30						
926.4			35						

PRELIMINARY
SUBJECT TO REVISION

SOIL / PAVEMENT BORING 243117.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/16/24

Total Depth: 20 ft
 Drilling Date: June 17, 2024
 Inspector: J. Anton
 Contractor: Strata Drilling, Inc.
 Driller: J. Haynor

Water Level Observation:
 13-1/2 during drilling; 8 feet upon completion

Notes:
 Borehole collapsed at 16 ft after auger removal
 * Calibrated Hand Penetrometer

Drilling Method:
 3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
 Auger Cuttings

Figure No. 11

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.276074° Longitude: -83.791460°



Soil Boring No. SB-12

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 954.5 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay with trace silt and gravel	0.4						
949.5		Very Stiff to Hard Brown Sandy Clay with trace silt and gravel (Brown Sandy Seam @ 7 feet)	5	S-01	4 4 3	7	12.6		8000*
	S-02			5 9 10	19	12.6		6500*	
			10	S-03	4 6 6	12	13.1		7000*
944.5				S-04	5 9 10	19	13.5		9000*
939.5		Medium Compact Grayish Brown Gravelly Sand with trace clay; possible cobbles	15.0	S-05	12 13 15	28			
		Compact Light Brown Silty Sand							
934.5		Light Brown Sandy Silt	19.5 20.0	S-06	10 16 18	34			
		End of Boring @ 20 ft							
929.5			25						
924.5			30						
919.5			35						

PRELIMINARY
SUBJECT TO REVISION

SOIL / PAVEMENT BORING 243117.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/16/24

Total Depth: 20 ft
Drilling Date: June 19, 2024
Inspector: J. Anton
Contractor: Strata Drilling, Inc.
Driller: B. Sienkiewicz

Water Level Observation:
Dry during and upon completion

Notes:
Borehole collapsed at 13-1/2 ft after auger removal
* Calibrated Hand Penetrometer

Drilling Method:
3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
Auger Cuttings

Figure No. 12

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.276365° Longitude: -83.791460°



Soil Boring No. **SB-13**

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 955.3 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay with trace silt and gravel (3 feet)	0.3		4				
		Fill: Very Stiff Brown Sandy Clay with trace silt and gravel	2.5	S-01	5	10	13.2		7000*
950.3		Fill: Soft to Medium Brown Sandy Clay with trace silt and gravel	5	S-02	2	4	17.7		3000*
			7.5	S-03	2	5	19.2		600**
945.3		Very Stiff Brown Sandy Clay with trace silt and gravel	10.0	S-04	4	14	17.0		7500*
		Compact Grayish Brown Gravelly Sand with trace clay; occasional cobbles	15.0	S-05	26	36			
940.3			15.0		21				
		Hard Brown Sandy Clay with trace silt and gravel	20.0	S-06	5	20	14.1		9000*
935.3		End of Boring @ 20 ft	20.0		11				
930.3			25						
925.3			30						
920.3			35						

PRELIMINARY
SUBJECT TO REVISION

SOIL / PAVEMENT BORING - 243117.GPJ - 20150116 G2 CONSULTING DATA TEMPLATE.GDT - 7/16/24

Total Depth: 20 ft
 Drilling Date: June 19, 2024
 Inspector: J. Anton
 Contractor: Strata Drilling, Inc.
 Driller: J. Haynor

Water Level Observation:
 Dry during and upon completion

Notes:
 Borehole collapsed at 10 ft after auger removal
 * Calibrated Hand Penetrometer
 ** Torvane

Drilling Method:
 3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
 Auger Cuttings

Figure No. 13

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.275978° Longitude: -83.790588°



Soil Boring No. **SB-14**

CONSULTING GROUP

SUBSURFACE PROFILE

SOIL SAMPLE DATA

ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 958.4 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay with trace silt and gravel (5 inches)	0.6		4				
		Very Stiff to Hard Brown Sandy Clay with trace silt and gravel		S-01	4 7	11	13.1		5000*
953.4			5.0	S-02	4 6 10	16	14.8		9000*
		Hard Mottled Brown and Gray Sandy Clay with trace silt and gravel		S-03	6 11 13	24	14.5		9000*
948.4			10	S-04	11 15 18	33	14.1		9000*
			13.0						
943.4		Very Stiff Gray Sandy Clay with trace silt and gravel	15	S-05	4 6 11	17	10.8		8000*
			20.0						
938.4			20	S-06	5 7 9	16	14.8		5000*
		Very Compact Brown Sandy Silt with trace clay and gravel							
933.4			25.0	S-07	11 25 32	57			
		Very Compact Light Brown Silty Sand (Brown Silt Layer @ 29 feet)							
928.4			30.0	S-08	23 26 28	54			
		Compact Brown Sandy Silt							
923.4			35.0	S-09	14 19 28	47			
		End of Boring @ 35 ft							

SUBJECT TO REVISION

SOIL / PAVEMENT BORING 243117.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/16/24

Total Depth: 35 ft
 Drilling Date: June 18, 2024
 Inspector: J. Anton
 Contractor: Strata Drilling, Inc.
 Driller: B. Sienkiewicz

Water Level Observation:
 Dry during and upon completion

Notes:
 Borehole collapsed at 29 ft after auger removal
 * Calibrated Hand Penetrometer

Drilling Method:
 3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
 Auger Cuttings

Figure No. 14

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.276544° Longitude: -83.791104°



Soil Boring No. **SB-15**

CONSULTING GROUP

SUBSURFACE PROFILE

SOIL SAMPLE DATA

ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 953.9 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay with trace silt and gravel (3 inches)	0.3						
948.9		Hard Brown Sandy Clay with trace silt and gravel	5	S-01	6 6 7	13	13.2		9000*
				S-02	5 7 11	18	13.8		9000*
				S-03	7 10 12	22	15.8		9000*
943.9			10.0	S-04	5 7 9	16	13.8		8000*
938.9		Stiff Gray Sandy Clay with trace silt and gravel	15	S-05	3 4 5	9	11.6		4500*
933.9		(Occasional Cobbles)	20.0	S-06	7 5 9	14	11.7		2000*
928.9		Very Compact Light Brown Silty Sand	25	S-07	19 33 51	84			
923.9			30	S-08	12 23 35	58			
918.9		(Occasional Brown Silt Seams)	35.0	S-09	14 29 45	74			
		End of Boring @ 35 ft							

PRELIMINARY
SUBJECT TO REVISION

SOIL / PAVEMENT BORING - 243117.GPJ - 20150116 G2 CONSULTING DATA TEMPLATE.GDT - 7/16/24

Total Depth: 35 ft
Drilling Date: June 18, 2024
Inspector: J. Anton
Contractor: Strata Drilling, Inc.
Driller: B. Sienkiewicz

Water Level Observation:
Dry during and upon completion

Notes:
Borehole collapsed at 30 ft after auger removal
* Calibrated Hand Penetrometer

Drilling Method:
3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
Auger Cuttings

Figure No. 15

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.276367° Longitude: -83.790173°



Soil Boring No. **SB-16**

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 959.5 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay with trace gravel (2 inches)	0.2		4				
		Very Stiff Brown Sandy Clay with trace gravel	2.5	S-01	6	10	9.3		8000*
954.5		Hard Mottled Brown and Gray Sandy Clay with trace silt and gravel	5.0	S-02	9	15	15.3		9000*
		Hard Brown Sandy Clay with trace silt and gravel		S-03	11	22	14.1		9000*
949.5		(Occasional Vertical Gray Silt Seams)	10.0	S-04	18	31	12.5		9000*
944.5		Stiff to Hard Gray Sandy Clay with trace silt and gravel	15	S-05	11	19	11.4		8500*
939.5			20	S-06	8	16	11.6		6000*
934.5			24.5	S-07	18	25	9.8		6500*
929.5		Very Compact Grayish Brown Clayey Sand with trace gravel, occasional clay seams	30.0	S-08	42	60			
924.5		Very Compact Brown Silty Sand with trace clay (Brown Sandy Clay Seam @ 34 feet)	35.0	S-09	49	83			
		End of Boring @ 35 ft							

PRELIMINARY
SUBJECT TO REVISION

SOIL / PAVEMENT BORING - 243117.GPJ - 20150116 G2 CONSULTING DATA TEMPLATE.GDT - 7/16/24

Total Depth: 35 ft
 Drilling Date: June 20, 2024
 Inspector: J. Anton
 Contractor: Strata Drilling, Inc.
 Driller: J. Haynor

Water Level Observation:
 Dry during and upon completion

Notes:
 Borehole collapsed at 27 ft after auger removal
 * Calibrated Hand Penetrometer

Drilling Method:
 3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
 Auger Cuttings

Figure No. 16

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.276240° Longitude: -83.790566°



Soil Boring No. **SB-17**

CONSULTING GROUP

SUBSURFACE PROFILE

SOIL SAMPLE DATA

ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 958.9 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay with trace gravel (8 inches)	0.7		6 7				
		Hard Brown Sandy Clay with trace gravel	2.5	S-01	5	12	9.9		9000*
953.9		Very Stiff Mottled Brown and Gray Sandy Clay with trace silt and gravel	5.0	S-02	3 2 5	7	21.6		6000*
		Hard Brown Sandy Clay with trace silt and gravel	7.5	S-03	9 11 11	22	13.1		9000*
948.9		Stiff Brown Sandy Clay with trace silt and gravel; occasional cobbles (Poor Recovery)	10.0	S-04	4 6 7	13			
943.9			15	S-05	6 7 7	14	12.7		3000*
		Stiff Gray Sandy Clay with trace silt and gravel							
938.9			20	S-06	4 4 5	9	10.5		3000*
			22.5	S-07A			12.4		4500*
933.9		Hard Brown Sandy Clay with trace silt and gravel; possible cobbles	25.0	S-07B	2 40 50/0"	---	15.6		9000*
928.9			30	S-08	22 38 45	83			
		Very Compact Light Brown Silty Sand							
923.9			35	S-09	19 46 50/0"	---			

SUBJECT TO REVISION

SOIL / PAVEMENT BORING 243117.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/16/24

Total Depth: 60 ft
 Drilling Date: June 19, 2024
 Inspector: J. Anton
 Contractor: Strata Drilling, Inc.
 Driller: J. Haynor

Water Level Observation:
 Dry during and upon completion

Notes:
 Borehole collapsed at 24-1/2 ft after auger removal
 * Calibrated Hand Penetrometer

Drilling Method:
 3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
 Auger Cuttings

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.276240° Longitude: -83.790566°



Soil Boring No. SB-17

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA						
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 958.9 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)	
918.9		Very Compact Light Brown Silty Sand <i>(continued)</i> (Possible Cobbles) Brown Silt	40	S-10	27 68 50/0"	---				
913.9			45	S-11	23 58 50/0"	---				
908.9			50	S-12	29 40 50 90					
903.9			55	S-13	13 39 33/3"	---				
898.9			60	S-14	30 81 50/0"	---				
893.9			65							
888.9			70							
				End of Boring @ 60 ft						

SUBJECT TO REVISION

SOIL / PAVEMENT BORING 243117.GPJ 20150116.G2 CONSULTING DATA TEMPLATE.GDT 7/16/24

Total Depth: 60 ft
Drilling Date: June 19, 2024
Inspector: J. Anton
Contractor: Strata Drilling, Inc.
Driller: J. Haynor

Water Level Observation:
Dry during and upon completion

Notes:
Borehole collapsed at 24-1/2 ft after auger removal
* Calibrated Hand Penetrometer

Drilling Method:
3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
Auger Cuttings

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.276046° Longitude: -83.791015°



Soil Boring No. **SB-18**

CONSULTING GROUP

SUBSURFACE PROFILE

SOIL SAMPLE DATA

ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 956.8 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay with trace silt and gravel (2 inches)	0.2		3				
		Hard Brown Sandy Clay with trace silt and gravel	2.5	S-01	3	6	13.7		8500*
951.8		Medium to Stiff Brown Sandy Clay with trace silt and gravel	5	S-02	2	4	13.7		1000*
			7.5	S-03	5	9	21.6		3000*
946.8		Hard Brown Sandy Clay with trace silt and gravel	10.0	S-04	10	19	14.3		9000*
		Very Loose Brown Clayey Sand with trace gravel							
941.8			15.0	S-05	2	3			
		Hard Brown Sandy Clay with trace silt and gravel; occasional sand seams							
936.8			20.0	S-06	13	24	15.4		9000*
		Compact Grayish Brown Gravelly Sand with trace clay; possible cobbles							
931.8			25.0	S-07	17	35			
		Compact Brown Silty Sand							
926.8			30	S-08	19	33			
		(Occasional Brown Silt Seams)							
921.8			35.0	S-09	28	47			
		End of Boring @ 35 ft							

SUBJECT TO REVISION

SOIL / PAVEMENT BORING 243117.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/16/24

Total Depth: 35 ft
 Drilling Date: June 18, 2024
 Inspector: J. Anton
 Contractor: Strata Drilling, Inc.
 Driller: J. Haynor

Water Level Observation:
 Dry during and upon completion

Notes:
 Borehole collapsed at 32 ft after auger removal
 * Calibrated Hand Penetrometer

Drilling Method:
 3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
 Auger Cuttings

Figure No. 18

Project Name: Lakewood Elementary School

Project Location: 344 Gralake Avenue
Ann Arbor, MI

G2 Project No. 243117

Latitude: 42.276064° Longitude: -83.790179°



Soil Boring No. **SB-19**

CONSULTING GROUP

SUBSURFACE PROFILE

SOIL SAMPLE DATA

ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 960.0 ft	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Sandy Clay with trace silt and gravel (10 inches)	0.8		4 6 7	13	13.8		9000*
955.0		Hard Mottled Brown and Gray Sandy Clay with trace silt and gravel	5.0	S-01	8 7 11	18	12.5		9000*
				S-02	6 8 12	20	12.1		9000*
950.0		Hard Brown Sandy Clay with trace silt and gravel	10	S-03	5 9 10	19	12.0		9000*
		(Brown Silty Sand Seam @ 13 feet)							
945.0			14.5	S-04	8 7 9	16	12.7		9000*
		Very Stiff Gray Sandy Clay with trace silt and gravel	20	S-05	5 5 7	12	10.3		6000*
940.0									
		(Possible Cobbles)	25.0	S-06	5 8 14	22	14.3		7000*
935.0		Very Compact Brown Sandy Silt with trace clay	30.0	S-07	14 26 26	52			
930.0									
		Very Compact Light Brown Silty Sand with trace clay	35.0	S-08	16 30 36	66			
925.0				S-09					
		End of Boring @ 35 ft							

PRELIMINARY
SUBJECT TO REVISION

SOIL / PAVEMENT BORING - 243117.GPJ - 20150116 G2 CONSULTING DATA TEMPLATE.GDT - 7/16/24

Total Depth: 35 ft
 Drilling Date: June 18, 2024
 Inspector: J. Anton
 Contractor: Strata Drilling, Inc.
 Driller: J. Haynor

Water Level Observation:
 Dry during and upon completion

Notes:
 Borehole collapsed at 29 ft after auger removal
 * Calibrated Hand Penetrometer

Drilling Method:
 3-1/4 inch inside diameter hollow-stem auger

Excavation Backfilling Procedure:
 Auger Cuttings

Figure No. 19