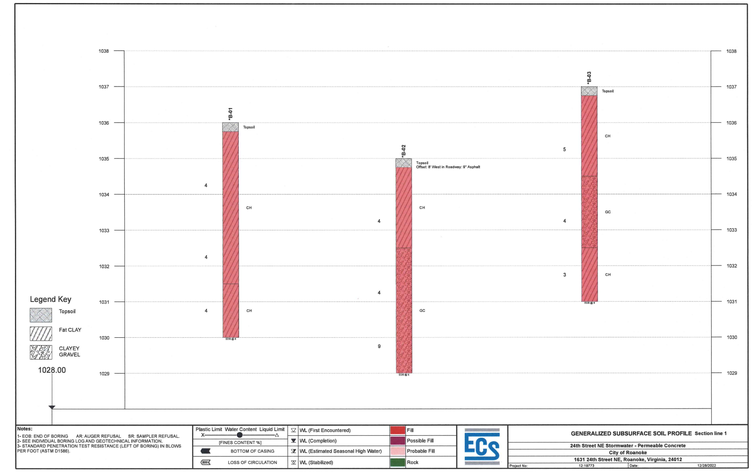
BORING LOCATION DIAGRAM
24TH STREET NE STORMWATER - PERMEABLE CONCRETE
1631 24TH STREET NE, ROANOKE, VIRGINIA
CITY OF ROANOKE

ENGINEER: DOS
SCALE: AS NOTED
PROJECT NO.: 12:19773
FIGURE: 1 OF 1
DATE: 2/10/2023



Notes:
1- EOB: END OF BORING AR: AUGER REFUSAL BR: SAMPLER REFUSAL.
2- SEE INDIVIDUAL BORING LOG AND GEOTECHNICAL INFORMATION.
3- STANDARD PENETRATION TEST RESISTANCE (LEFT OF BORING) IN BLOWS PER FOOT (ASTM D1586).

Plastic Limit | Water Content | Liquid Limit
X
(FINES CONTENT %)
BOTTOM OF CASING
LOSS OF CIRCULATION
WL (First Encountered)
WL (Completion)
WL (Estimated Seasonal High Water)
WL (Stabilized)
Fill
Possible Fill
Probable Fill
Rock

GENERALIZED SUBSURFACE SOIL PROFILE Section line 1
24th Street NE Stormwater - Permeable Concrete
City of Roanoke
1631 24th Street NE, Roanoke, Virginia, 24012
Project No. 12-19773 Date 12/28/2023

CLIENT: City of Roanoke
PROJECT NO.: 12:19773
BORING NO.: B-01
SHEET: 1 of 1
PROJECT NAME: 24th Street NE Stormwater - Permeable Concrete
DRILLER/CONTRACTOR: Blue Ridge Drilling, Inc.
SITE LOCATION: 1631 24th Street NE, Roanoke, Virginia, 24012
LOSS OF CIRCULATION
NORTHING: 3633797.8
EASTING: 11072353.9
STATION:
SURFACE ELEVATION: 1036.00
BOTTOM OF CASING

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	ELEVATION (FT)	BLOWS/6"
					Topsoil Thickness[3.00"]		
	S-1	SS	18	9	(CH FILL) FILL, SANDY FAT CLAY WITH GRAVEL, dark brown, moist, soft		2-2-2 (4)
	S-2	SS	18	12			1-2-2 (4)
5	S-3	SS	18	14	(CH FILL) FILL, GRAVELLY FAT CLAY, trace sand, dark brown, wet, soft	1031	WOH-2-2 (4)
					END OF BORING AT 6 FT		
10						1026	
15						1021	
20						1016	
25						1011	
30						1006	

STANDARD PENETRATION BLOWS/FT 20 40 60 80 100
ROCK QUALITY DESIGNATION & RECOVERY: RQD, REC
LIQUID LIMIT, PLASTIC LIMIT
CALIBRATED PENETROMETER TSF 1 2 3 4 5
WATER CONTENT % (FINES CONTENT) % 10 20 30 40 50

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

WL (First Encountered) **Wet Sample**
WL (Completion)
WL (Seasonal High Water)
WL (Stabilized)

BORING STARTED: **Dec 27 2022** CAVE IN DEPTH: **6.00**
BORING COMPLETED: **Dec 27 2022** HAMMER TYPE: **Auto**
EQUIPMENT: **CME-45** LOGGED BY: **JPP** DRILLING METHOD: **3 1/4 HSA**

GEOTECHNICAL BOREHOLE LOG

CLIENT: City of Roanoke
PROJECT NO.: 12:19773
BORING NO.: B-02
SHEET: 1 of 1
PROJECT NAME: 24th Street NE Stormwater - Permeable Concrete
DRILLER/CONTRACTOR: Blue Ridge Drilling, Inc.
SITE LOCATION: 1631 24th Street NE, Roanoke, Virginia, 24012
LOSS OF CIRCULATION
NORTHING: 3633754.2
EASTING: 11072375.7
STATION:
SURFACE ELEVATION: 1035.00
BOTTOM OF CASING

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	ELEVATION (FT)	BLOWS/6"
					Topsoil Thickness[3.00"]		
	S-1	SS	18	12	(CH FILL) FILL, GRAVELLY FAT CLAY WITH SAND, dark brown, moist to wet, soft		2-2-2 (4)
	S-2	SS	18	17	(GC FILL) FILL, CLAYEY GRAVEL WITH SAND, dark brown to gray, moist to wet, very loose to loose		2-2-2 (4)
5	S-3	SS	18	16		1030	WOH-2-7 (9)
					END OF BORING AT 6 FT BORING OFFSET 8 FEET WEST INTO ROAD FOR PAVEMENT THICKNESS. ASPHALT [9.0"], NO ISOLATED GRAVEL BASE ENCOUNTERED.		
10						1025	
15						1020	
20						1015	
25						1010	
30						1005	

STANDARD PENETRATION BLOWS/FT 20 40 60 80 100
ROCK QUALITY DESIGNATION & RECOVERY: RQD, REC
LIQUID LIMIT, PLASTIC LIMIT
CALIBRATED PENETROMETER TSF 1 2 3 4 5
WATER CONTENT % (FINES CONTENT) % 10 20 30 40 50

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

WL (First Encountered) **Wet Sample**
WL (Completion)
WL (Seasonal High Water)
WL (Stabilized)

BORING STARTED: **Dec 27 2022** CAVE IN DEPTH: **6.00**
BORING COMPLETED: **Dec 27 2022** HAMMER TYPE: **Auto**
EQUIPMENT: **CME-45** LOGGED BY: **JPP** DRILLING METHOD: **3 1/4 HSA**

GEOTECHNICAL BOREHOLE LOG

CLIENT: City of Roanoke
PROJECT NO.: 12:19773
BORING NO.: B-03
SHEET: 1 of 1
PROJECT NAME: 24th Street NE Stormwater - Permeable Concrete
DRILLER/CONTRACTOR: Blue Ridge Drilling, Inc.
SITE LOCATION: 1631 24th Street NE, Roanoke, Virginia, 24012
LOSS OF CIRCULATION
NORTHING: 3633707.6
EASTING: 11072395.1
STATION:
SURFACE ELEVATION: 1037.00
BOTTOM OF CASING

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	ELEVATION (FT)	BLOWS/6"
					Topsoil Thickness[3.00"]		
	S-1	SS	18	12	(CH FILL) FILL, FAT CLAY WITH GRAVEL, trace sand, medium to dark brown, moist, firm		2-3-2 (5)
	S-2	SS	18	18	(GC FILL) FILL, CLAYEY GRAVEL WITH SAND, dark brown, moist wet, very loose		1-2-2 (4)
5	S-3	SS	18	16	(CH FILL) FILL, GRAVELLY FAT CLAY WITH SAND, orangish brown, moist, soft	1032	2-1-2 (3)
					END OF BORING AT 6 FT		
10						1027	
15						1022	
20						1017	
25						1012	
30						1007	

STANDARD PENETRATION BLOWS/FT 20 40 60 80 100
ROCK QUALITY DESIGNATION & RECOVERY: RQD, REC
LIQUID LIMIT, PLASTIC LIMIT
CALIBRATED PENETROMETER TSF 1 2 3 4 5
WATER CONTENT % (FINES CONTENT) % 10 20 30 40 50

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

WL (First Encountered) **Dry**
WL (Completion)
WL (Seasonal High Water)
WL (Stabilized)

BORING STARTED: **Dec 27 2022** CAVE IN DEPTH: **6.00**
BORING COMPLETED: **Dec 27 2022** HAMMER TYPE: **Auto**
EQUIPMENT: **CME-45** LOGGED BY: **JPP** DRILLING METHOD: **3 1/4 HSA**

GEOTECHNICAL BOREHOLE LOG

COMMONWEALTH OF VIRGINIA
WILL THOMAS AUSTIN
Lic. No. 030907
3/31/23
PROFESSIONAL ENGINEER

Revisions	Date

Issue Date: MAR. 31, 2023
Drawn By: WTA
Designed By: ARB
Checked By: WTA
Date: 3/31/23

Mattern & Craig
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ROANOKE, VIRGINIA 24016
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FAX (540) 345-7691

STORMWATER DRAINAGE IMPROVEMENT PROJECT
FOR 1600 BLOCK 24TH ST. NE

SOIL BORING LOGS

ROANOKE, VIRGINIA

Vertical Scale: N/A
Horizontal Scale: N/A
Commission Number: 3991C
Sheet No.: C7.1

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