CLI	ENT: Cra	twiord, widipity & Timy	REPORT NO DATE STI				RING NO.: INISHED:	CBC-1 11/7/22
PROJ	ECT: GE	Remick Blvd., Springboro, Ohio I-Extension of Towne Center Blvd., and	DRILLER				ND ELEV.:	821.8
	Gra	andin Road, Warren County, OH	METHO	D: 2 1/4"	HSA			
SCALE, FT.	STRATUM DEPTH, FT.	Shown on the Boring Location Plan CLASSIFICATION OF MATERIAL Major Soil Components: Gravel Silt Trace 1-10% Sand Clay Some 11-35% And 36-50%		SAMPLE NUMBER & SAMPLE TYPE	DEP OF SAMPL	7	BLOWS ON SAMPLER PER SPT (6" INTER- VAL)	SPT "N" , OR RECOVERY (IN. FOR SHELBY TUBES, % FOR ROCK CORE)
					FROM	TO		
0.0	0.0	ASPHALT						
1.0	9" 11"	GRAVEL BASE ORIGINAL, soft, brown, silty CLAY, trace	sand and	1A	1.0	2.5	2-3-3	6
1.0	11	gravel (moist)						
2.0		g.m.s.						
3.0								
3.0		becomes stiff at 3.5 feet		2A	3.5	5.0	3-5-5	10
4.0								
5.0								
6.0	6.0	Stiff, brown/gray, silty CLAY, some sand a	and gravel	4A	6.0	7.5	5-7-10	17
		(moist)						
7.0		1						
8.0]		5A	8.5	10.0	7-12-14	26
9.0								
10.0								
10.0								
11.0								
12.0								
13.0								
13.0	13.5	SHALE AND LIMESTONE ROCK		6A	13.5	15.0	45-34-38	72
14.0		(weathered on top)						
15.0	<u> </u>	BOTTOM OF BORING AT 15.0 I	FEET					
16.0		-						
17.0		-						
18.0								
19.0		-						
Noted of At com	R LEVEL OF on rods 9.0 pletion 9.0 hours	ft. CFA Continuous Flight Auger	MD Mu RC Ro	d Drilling ck Coring sing Advancer	A - Sp B - Ro	SAMPLE SAMPLE Spoon ock Core elby Tube her	Sample Auxilia	Shelby Tube is Obtained In An ary Boring Drilled A et From This Boring

PROJ	ECT: GE Gra	wford, Murphy & Tilly Remick Blvd., Springboro, Ohio I-Extension of Towne Center Blvd., and undin Road, Warren County, OH	D.: 11/7/2 RS: Enviro	22 oCore	DATE F	RING NO.: FINISHED: ND ELEV.:	CBC-2 11/7/22 816.5
SCALE, FT.	STRATUM DEPTH, FT.	Shown on the Boring Location Plan METHO CLASSIFICATION OF MATERIAL Major Soil Components: Minor Component Term Gravel Silt Trace 1-10% Sand Clay Some 11-35% And 36-50%	DD: 2 ¼" SAMPLE NUMBER & SAMPLE TYPE	DEP OI SAMPL	E, FT.	BLOWS ON SAMPLER PER SPT (6" INTER- VAL)	SPT "N" , OR RECOVERY (IN. FOR SHELBY TUBES, % FOR ROCK CORE)
			1	FROM	ТО		
0.0	0.0 8"	TOPSOIL ORIGINAL, soft, brown, silty CLAY, trace sand and	7				
1.0	0	gravel (moist)	1A	1.0	2.5	2-2-2	4
		1 man 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1					
2.0							
3.0						2.2.2	6
	3.5	Medium stiff, brown/gray, clayey SILT, trace sand	2A	3.5	5.0	2-3-3	6
4.0		and gravel (moist)					
5.0							
		The GY AN arrange and arrange	4A	6.0	7.5	3-6-8	14
6.0	6.0	Stiff, brown/gray, silty CLAY, some sand and gravel (moist)	4/1	0.0	7.5		
7.0		(moist)					
8.0			5A	8.5	10.0	7-8-12	20
9.0							
10.0		-					
11.0	1	-					
11.0							
12.0		-					
13.0							
13.0	13.5	SHALE AND LIMESTONE ROCK	6A	13.5	15.0	24-41-49	90
14.0		(weathered on top)				1	
15.0		BOTTOM OF BORING AT 15.0 FEET					
15.0							
16.0		-					
17.0		-					
17.0							
18.0			-				
19.0		-					
19.0							
Noted of	R LEVEL OB on rods 14.0 pletion 14.0 hours	ft. CFA Continuous Flight Auger RC RC	nd Drilling ck Coring sing Advancer	A - Sp B - Ro	SAMPLE lit Spoon ock Core elby Tube her	Sample Auxilia	Shelby Tube es Obtained In An ary Boring Drilled A eet From This Boring

PROJ	ECT: GE Gra	Remick Blvd., Springboro, Ohio II-Extension of Towne Center Blvd., and andin Road, Warren County, OH	REPORT NO DATE STI DRILLER	D.: 11/7/2	22 Core	DATE	RING NO.: FINISHED: ND ELEV.:	
LOCAT SCALE, FT.	STRATUM DEPTH, FT.	Shown on the Boring Location Plan CLASSIFICATION OF MATERIAL Major Soil Components: Minor Components Gravel Silt Trace 1-10% Sand Clay Some 11-35% And 36-50%	ent Term	SAMPLE NUMBER & SAMPLE TYPE	DEP O SAMPI	F .E, FT.	BLOWS ON SAMPLER PER SPT (6" INTER- VAL)	SPT "N", OR RECOVERY (IN FOR SHELBY TUBES, % FOR ROCK CORE)
20000020					FROM	ТО		
0.0	0.0 6"	TOPSOIL ORIGINAL, medium stiff, brown, silty CI	.AY trace					
1.0	6	sand and gravel (moist)	<i>3</i> 111, trace	1A	1.0	2.5	3-4-4	8
1.0								
2.0								
3.0								
5.0		becomes stiff at 3.5 feet		2A	3.5	5.0	5-6-7	13
4.0								
5.0								
	6.0	Stiff, brown/gray, silty CLAY, trace sand	and gravel	4A	6.0	7.5	3-5-6	11
6.0	0.0	(moist)	una Branco					
7.0								
8.0								
				5A	8.5	10.0	4-4-5	9
9.0		-						
10.0	2							
11.0				-				
11.0		-						
12.0]				-		+
13.0		-						
13.0	13.5	SHALE AND LIMESTONE ROCK		6A	13.5	15.0	34-50/3"	100+
14.0		(weathered on top)			-			
15.0		BOTTOM OF BORING AT 15.0	FEET					
16.0		-						
17.0								
18.0		-						
10.0								
19.0		_						
20.0			(ISMITTOE)		TVDD	SAMDI	E *These	Shelby Tu
Noted o	R LEVEL OB on rods Dry pletion Dry hours	ft. CFA Continuous Flight Auger	MD Muc RC Roc	d Drilling & Coring ing Advancer	A - Sp B - Ro	SAMPLI lit Spoon ock Core elby Tube	Sample Auxilia	s Obtained In ry Boring Drilled et From This Bori

PROJ	84 ECT: GE Gra	REPORT Remick Blvd., Springboro, Ohio DATE I-Extension of Towne Center Blvd., and and in Road, Warren County, OH Other State Presing Location Plan	STD.: 11/7.	/22 roCore	DATE	ORING NO.: FINISHED: ND ELEV.:	11/7/22
LOCAT SCALE, FT.	STRATUM DEPTH, FT.	Shown on the Boring Location Plan MET CLASSIFICATION OF MATERIAL Major Soil Components: Minor Component Term Gravel Silt Trace 1-10% Sand Clay Some 11-35% And 36-50%	SAMPLE NUMBER & SAMPLE TYPE	DEP	F	BLOWS ON SAMPLER PER SPT (6" INTER- VAL)	SPT "N", OR RECOVERY (IN FOR SHELBY TUBES, % FOR ROCK CORE)
0.0	0.0	TOPSOIL		11(01)			
0.0	10"	ORIGINAL, soft, brown, silty CLAY, trace					_
1.0		sand and gravel (moist)	1A	1.0	2.5	2-2-3	5
300000							
2.0							
3.0							
5.0		becomes stiff at 3.5 feet	2A	3.5	5.0	3-3-6	9
4.0							
5.0							
5.0						267	12
6.0	6.0	Stiff, brown/gray, silty CLAY, trace sand and gravel	4A	6.0	7.5	3-6-7	13
7.0		(moist)					
7.0							
8.0		1			400	1.60	1.4
			5A	8.5	10.0	4-6-8	14
9.0				-			
10.0		-					
10.0		1					
11.0]					
Wester Continue							
12.0		4					
13.0		-					
13.0	13.5	SHALE AND LIMESTONE ROCK	6A	13.5	15.0	36-23-48	71
14.0		(weathered on top)					
15.0		BOTTOM OF BORING AT 15.0 FEET					
15.0		BOTTOM OF BORING AT 15.0 (BB)					
16.0							
17.0		-					
18.0		-					
10.0							
19.0							
		-			+		
20.0	R LEVEL OR	SERVATIONS BORING METHOD			SAMPL		Shelby Tu
Noted o	on rods Dry pletion Dry hours	ft. HSA Hollow Stem Auger MD ft. CFA Continuous Flight Auger RC	Mud Drilling Rock Coring Casing Advance	B - R	olit Spoon ock Core nelby Tube	Auxilia	es Obtained In ary Boring Drilled eet From This Bori

TABLE 1
RESULTS OF NATURAL MOISTURE CONTENT TESTS (ASTM D-4643)

BORING NO.	DEPTH INCREMENT, (FT.)	NATURAL MOISTURE CONTENT, %
CBC-1	1.0 – 2.5	22.5
CBC-1	3.5 – 5.0	24.8
CBC-1	6.0 - 7.5	14.0
CBC-2	1.0 - 2.5	22.9
CBC-2	3.5 – 5.0	22.5
CBC-2	6.0 – 7.5	18.9
CBC-2	8.5 – 10.0	18.1
CBC-3	1.0 – 2.5	14.1
CBC-3	3.5 – 5.0	17.7
CBC-3	6.0 – 7.5	25.6
CBC-3	8.5 – 10.0	25.0
CBC-4	1.0 – 2.5	23.0
CBC-4	3.5 – 5.0	20.9
CBC-4	6.0 – 7.5	19.6
CBC-4	8.5 – 10.0	25.6
CBC-4	13.5 – 15.0	11.5



VICINITY MAP

GEOTECHNICAL ENGINEERING INVESTIGATION FOR THE PROPOSED EXTENSION OF TOWNE CENTER BLVD. AND GRANDIN ROAD WARREN COUNTY, OHIO

Project No.

CBC-25320

1" = 3000'

Date:

11/10/22



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KOONTZ BRYANT JOHNSON WILLIAMS Company

Rev No.

Figure No.

