

April 22, 2019

Mr. Brian Tierney AMS Acquisitions, Development and Construction 595 Madison Avenue, Suite 1101 New York, NY 10022

#### Re: Preliminary Geotechnical Letter Report North Broadway Assemblage Yonkers, New York

Dear Brian:

In accordance with our April 5, 2019 proposal, this letter report presents the results of our preliminary field investigation and preliminary foundation recommendations for the proposed construction.

Based on recent discussions between you and Mr. Ziad H. Maad, P.E. of Geotechnical Engineering Services, P.C. (GES), we understand the project site occupies several lots spanning the western ends of Baldwin Place, Overlook Terrace, extending down a steep tree-covered slope, through select lots to North Broadway in the City of Yonkers, New York. We understand the lots/addresses proposed to be part of the new development include the following addresses. Our preliminary geotechnical investigation was performed at the addresses noted in **bold** below. The outline of the proposed site is shown on the attached Site Location Plan:

- <u>2 Baldwin Place</u> Open lot covered by trees and debris
- <u>10 Baldwin Place</u> Two-story house and surrounding yard and trees
- 23 Overlook Terrace Five-story building and trees
- <u>14 Overlook Terrace</u> Tree-covered open lot
- <u>30-32 North Broadway</u> Two-story (plus cellar) building and rear yard.
- <u>28 North Broadway</u> Two-story building plus rear yard
- <u>20-24 North Broadway</u> Four-story building (24 North Broadway) and three-story building (plus cellar) (20-22 North Broadway)
- <u>18 North Broadway</u> Two-story building

Based on the architectural renderings provided to us, we understand the proposed development includes the construction of several new buildings of varying height across most of the combined footprint of the above-mentioned lots, which is over 50,000-square-feet in footprint area. In the area of 10 Baldwin Place, the eastern half of an about eleven-story residential building will be constructed with up to three levels of parking, and a first-floor slab about 65 feet above the ground level on North Broadway to the west. The building is proposed to extend to the western property

6 Bayberry Road Elmsford, NY 10523 Mr. Brian Tierney – AMS Acquisitions North Broadway Assemblage Preliminary Geotechnical Letter Report – April 22, 2019 Page 2 of 5

line of 2 Baldwin Place, with three parking levels in the western half, and mechanical space in the eastern half. One podium level is expected to extend to fully cover 23 Overlook Terrace. All existing structures on these two lots will be fully demolished for the proposed construction.

Geotechnical Engineering Services, P.C. (GES) did not perform any surveying and solely relied on our information as measured in the field from fixed locations, as well as two December 19, 2018 dated topographic surveys by Kulhanek & Plan Land Surveyors, P.C. covering 23 Overlook Terrace and 10 Baldwin Place. No elevations were provided on the surveys. Therefore, all depths in this letter report, unless otherwise noted, are from surrounding grade.

The objectives of this initial investigation were to evaluate the subsurface conditions beneath the proposed construction at the two above-mentioned lots, and to provide preliminary foundation recommendations for the proposed new development.

#### METHODOLOGY

A total of two (2) geotechnical borings, referred to as B-1 and B-2 were performed at the locations shown in the attached Site Location Plan and Boring Location Plans. Both borings were drilled by Municipal Testing Laboratory of Hauppauge, NY (MTL), utilizing a GeoProbe track-mounted drill rig from April 8 to April 10, 2019. The borings were continuously inspected by Messrs. Haykel Melaouhia, Ph.D., and Michael Torino, P.E. of GES.

The GES borings were drilled utilizing the mud-rotary drilling technique with a 2-7/8-inch and 3-7/8-inch diameter tri-cone roller bit and 3-inch and 4-inch diameter steel casing to stabilize each boring, respectively. The use of 3-inch diameter steel casing for Boring B-2 became necessary due to the presence of boulders and cobbles. Soil samples were obtained using techniques and equipment in general accordance with the American Society for Testing and Materials (ASTM) Standard Specification D1586-Standard Penetration Test (SPT). The SPT consists of driving a 2inch O.D. split-spoon sampler typically to 24-inches of penetration, using repeated blows of a 140lb hammer, free-falling a height of 30-inches. The standard penetration value, or N-value, is determined as the number of blows required to advance the sampler the sum of the second and third 6-inch intervals of a typical 24-inch penetration. MTL used <u>an automatic trip hammer</u>. This hammer operates with a 90% efficiency whereas the manual (cathead and rope) hammer operates at a 60% efficiency. This means that the blow counts are reported on the boring logs, where the automatic hammer was used, are about 2/3 of the values that would be reported if a conventional donut-type hammer to the normalized N-value (N<sub>60</sub>).

Where the split-spoon sampler could not be advanced through a rock or an obstruction, the sampler was driven for 50 blows, and depth of actual penetration less than 6 inches was recorded. Soil samples were placed in jars following completion of sampler advance. Boring logs showing N-Values and stratigraphy are attached to this letter report.

When the borings encountered top of rock, core drilling was performed using an NX-size core barrel with a diamond bit. Approximately 5 to 15 feet of rock was cored in Borings B-2 and B-1, respectively. The length of recovery and Rock Quality Designation (RQD) was measured and calculated for each rock core run, and denoted as a percent recovery and percent RQD, respectively. RQD refers to the sum of the lengths of rock core pieces four inches or longer,

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neglecting mechanical breaks, expressed as a percentage of the total length of the core run. Percentage recovery and RQD, and rock sample descriptions are included on the boring logs.

Similarly, wherever the split-spoon sampler could not penetrate a boulder or cobble within the overburden material, core drilling was performed, also using an NX-Size core barrel with a diamond bit. Recovery length was measured for the depths cored and is reported on each boring log in terms of percent recovery. RQD is not applicable to boulders and is reported as 0 percent on the boring logs.

The recovered split-spoon soil samples were labeled with the project name, boring number, sample number, depth of sample, SPT blow counts and length of recovery. Cores through boulders and rock core samples were arranged and organized in wooden five-foot-long core boxes, labeled with project name and number, boring number, sample number, depth of sample, and core recovery and RQD percentages. All samples were transported to MTL's shop for storage.

- Boring B-1 was drilled within the open yard of 10 Baldwin Place, just east of the existing building, to a depth of 17 feet, encountering bedrock at a depth of about 4 feet.
- Boring B-2 was drilled from the concrete pathway, outside the southeast corner of the building at 23 Overlook Terrace to a depth of 30 feet, encountering bedrock at a depth of about 25 feet.

The recovered split-spoon soil samples were labeled with the project name, boring number, sample number, depth of sample, SPT blow counts and length of recovery. Cores through boulders and rock core samples were arranged and organized in wooden five-foot-long core boxes, labeled with project name and number, boring number, sample number, depth of sample, and core recovery and RQD percentages. Photos of rock core samples are shown on the attached rock core photo plates. All samples were transported to MTL's shop for storage.

#### SUBSURFACE CONDITIONS

The following general descriptions of the subsurface strata are based on our interpretations of the results of the field investigation. As noted above, all depths are relative to surrounding ground level. Elevations were not available for this investigation:

<u>Stratum 1 – Fill</u>: This stratum was encountered in both borings to depths of 4 and 11 feet in Borings B-1 and B-2, respectively. Fill was present at grade in Boring B-1 and just below the sidewalk slab in Boring B-2. The Fill consists of loose to medium dense, brown, black and gray medium to fine Sand with varying amounts of Gravel, Silt, and Concrete and Brick fragments, and roots. SPT N-Values ranged from 10 to 64-blows/ft (bpf), with an average of 19 bpf.

<u>Stratum 2 – Glacial Till:</u> Stratum 2 consists of loose to very dense brown gravelly coarse to fine Sand with varying amounts of Silt, and Cobbles and Boulders. This stratum was found directly beneath the Fill in Boring B-2, extending from about 11 to 25 feet below grade, just above the rock, and not encountered in Boring B-1. Only two SPT N-Values were recorded within this stratum, which were 6 blows for 6 inches and 9 bpf, in Boring B-1. Stratum 2 was cored where a boulder was encountered from 18 to 23 feet, with a recovery of an about 10-inch-long boulder.

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<u>Stratum 3 – Rock</u>: This stratum was encountered in both borings, beginning at a depth of about 4 feet in Boring B-1 and about 25 feet in Boring B-2 to the completion depth of both borings. This stratum is comprised of intermediate to medium hard, slightly weathered, gray mica schist, closely jointed to broken, with weathered joints and occasional quartz and garnet inclusions. An about one-foot-thick layer of decomposed rock was encountered at a depth of about 4 feet in Boring B-1, with spoon refusal after advancing about 3 inches, just above more competent rock. Rock core recovery for Stratum 3 ranged from 83 to 100 percent, with an average of 95 percent. The RQD for Stratum 3 ranged from 43 to 58 percent, with an average of 51 percent. Our supplemental geotechnical investigation will map the top of rock contour, and parse the strata of rock to delineate where weaker and more competent is present.

#### Groundwater Conditions

Perceived sample moisture content of the split-spoon soil samples was also recorded on the logs. Based on the position of the preliminary borings on a hill, above North Broadway, it is highly unlikely that groundwater is present within 30 feet of the ground surface at the boring locations. Therefore, groundwater should not be a concern at the site at the above-mentioned lots. However, groundwater levels will be further investigated during our supplemental geotechnical investigation, which will include the installation of groundwater monitoring wells, and the installation of an electronic piezometer. A design groundwater level as well as ambient groundwater level, a discussion of potential flood hazards to the site, and recommendations for temporary and permanent groundwater control measures will be further discussed at that time.

#### PRELIMINARY RECOMMENDATIONS

As stated above, the purpose of this letter report is to provide preliminary foundation recommendations for the proposed new development. A more detailed supplemental geotechnical report will be provided after the completion of the remaining borings and test pits, which will contain seismic considerations, temporary and permanent groundwater control recommendations, more specific foundation recommendations, recommendations for support of excavation and underpinning, subgrade preparation and excavation recommendations, construction monitoring recommendations, and controlled inspection recommendations, among other aspects of this complex project.

The exact footprint and building loads, as well as excavation depth and top of rock contour is unknown at this time. However, as a preliminary recommendation for foundation support, we recommend that the proposed new building wall and column foundations can be designed as shallow footings or mat foundations, to bear on either Stratum 2 (Glacial Till), with an allowable bearing pressure of 3 tons per square foot (tsf), or Stratum 3 (Rock), if encountered. Areas with higher, more concentrated loads, where greater than 3 tsf is required for foundation support can be designed to bear on Stratum 3 (Rock), with a minimum allowable bearing pressure of 8 tsf for decomposed rock, and 20 tsf for competent rock. Recommended bearing pressures are contingent upon GES being retained to provide controlled inspection of the subgrade.

Soil subgrades must be proof-rolled using a minimum of six (6) passes with a dual-drum vibratory roller, under continuous inspection by a licensed NYS Professional Engineer (PE). A minimum of

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6 inches of <sup>3</sup>/<sub>4</sub>" crushed stone should be placed under the footings or mat foundation and compacted under continuous inspection. We recommend the rock subgrade be cleaned by the use of handheld equipment, then any remaining mud or rock debris and surface water removed using compressed air. The rock subgrade should be free of loose rock, mud, trash, fill, or other debris, prior to inspection by the PE, and solicited by the Owner. Concrete for a mud slab or footing/mat foundation should be poured within the same day as it is prepared and inspected, to ensure the allowable bearing capacity of the footing/mat foundation subgrade. Excavation within two feet of the design bearing level of new foundation should proceed with flat-plated excavator buckets for soil and hand-held jackhammers for rock. In either case, all fill must be removed prior to concrete placement, as fill is not a suitable bearing material for new foundations.

Support of excavation and underpinning requirements are unknown at this time. Drilled caissons, founded by rock sockets, may be required wherever proposed new building foundations are above adjacent building foundations to extend new building loads below adjacent foundations, as to not impose lateral load on adjacent buildings. Drilled caissons may also be required if the soil/rock encountered is not sufficient to support the proposed new building loads.

We recommend a supplemental geotechnical investigation be performed, including additional borings for foundation and support of excavation design, as well as a rock mapping investigation, to document the elevation/depth and rock quality across the site, and test pits to document the type/dimensions of adjacent foundations along the edges of the site. We reserve the right to revise our recommendations provided herein, following completion of supplemental investigations.

We also request the opportunity to provide proposals for inspection of any soil/rock subgrade preparation, drilled caisson design and installation, support of excavation design/installation, and monitoring of rock excavation for rock bolting, or as required by our supplemental investigation.

If you have any questions or would like to discuss the contents of this letter report, please don't hesitate to call me in the office at 914-592-4616 or on my mobile at 973-727-7329.

Very truly yours, Geotechnical Engineering Services, P.C.

Daniel George, P.E. for Ziad H. Maad, P.E., D. GE.

#### **ATTACHMENTS**

Site Location Plan 10 Baldwin Place Boring Location Plan 23 Overlook Terrace Boring Location Plan Boring Logs Rock Core Photo Plates





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BLC	10 BALDWIN PLACE YONKERS, NY BLOCK: 2018 LOT: 75 ZONE: MAP:														
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### Log of Boring B-1

Proiect	Number:	2019038
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Project: North Broadway Assemblage Project Number: 2019038												er: 2019038				
Location: 10 Baldwin Place, Yonkers, NY																
Date(s Drilled	;)	4/8/	19 - 4/	9/19				Inspector H. Melaouhia, Ph.D.	С	oord	linate	es f	Norti East:	n:		
Drilling	) V	Mu	nicipal	Testi	ng Lal	oorato	ory	Foreman Mike Saltz / Anthony Kappel	AE	Approximate Surface Elevation (feet) NA						
Drilling Equipr	, nent	Geo	probe	Track	< Rig			Drilling Mud Rotary	Completion 17.0 Rock Depth Depth (feet) 17.0 (feet) 4.0							
Casing Size/T	) ype	4" \$	Steel					Size/Type of Bit 3-7/8" Roller Bit	<sup>pe</sup> 3-7/8" Roller Bit Sampler 2"							
Groun and Da	Groundwater Level NA and Date Measured NA							Hammer 140/30" (Auto) Casing Hammer Wt/Drop 140/30" (Auto)	Si C	Size/Type of NX						
Boring Location See Boring Location Plan (Figure								e 1)	N	0. 0 Di:	f Sa <b>st.: 2</b>	mple 2	es Unc	list.:0 Core (ft):13		
	Soil	Sam	ples	Roc	k Co	ring					L.	(%).				
Depth, feet	Type, Number	Recov. (ft)	Pen. Resist (blows/6 in)	Run Number	Recov. (%)	RQD (%)	Graphic Log	DESCRIPTION		Liquid Limit	Plastic Limi	Water Cont	% Fines	REMARKS		
- 0	S-1	1.5	3 2 16 28					FILL: Brown & black medium to fine Sand, some Gravel, some Silt	-					S-1: Dry.		
_	S-2	0.7	32 100/3"				<u>į</u>	Gray medium to fine gravelly Sand						S-2: Dry. Cased to 4 ft. Decomposed rock at tip		
-							000		_/-					of spoon sampler.		
5				C-1	92	43		Intermediate gray Slightly weathered Mica Schist, closely jointed to broken, weathered and iron stained joints						Losing water.		
- - 10 -				C-2	100	50		Same as Above.						Barrel clogged at 8 ft. Losing water		
- 15—				C-3	95	54		Same as Above.	-					Barrel clogged at 12.5 ft. Losing water Barrel clogged at 17 ft.		
								Boring Completed at 17 ft. Backfilled with soil cuttings upon completion. -	-							
								—— GES P.C. ———						Drintod: 4/47/40		

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## Log of Boring B-2

Proje	ect:	Nort	h Br	oadw	ay A	Asse	mbla	ge Proje	ect N	umb	ber: 2019038			
Loca	Location: 23 Overlook Terrace, Yonkers, NY													
Date(s Drilled	)	4/9/ <sup>,</sup>	19 - 4/	10/19				Inspector H. Melaouhia, Ph.D. / Mike Torino, Coordin P.E.	nates	Nor Eas	th: it:			
Drilling Agenc	/	Mun	nicipal	Testir	ng Lat	oorato	ory	Foreman Anthony Kappel Approx	Approximate Surface Elevation (feet) NA					
Drilling Equipr	nent	Geo	probe	Track	Rig			Drilling Mud Rotary Comple Method Mud Rotary Depth (	Completion 30.0 Rock Depth 25.0					
Casing Size/T	/pe	3" 8	. 4" St	eel				Size/Type 2-7/8" & 3-7/8" Roller Bit Sample Type(s)	Sampler Type(s) 2" Split Spoon					
Ground and Da	lwater ite Mea	Level	NA NA					Hammer 140/30" (Auto) Casing Hammer Size/Ty Wt/Drop 140/30" (Auto) Core B	Size/Type of Core Barrel NX					
Boring	Locatio	on See	e Bori	ng Loo	cation	Plan	(Figur	e 2) No. of Dis	Samp t.: 7	oles Un	ndist.:0 Core (ft):10			
	Soil	Sam	oles	Roc	k Coi	ring				0				
Depth, feet	Type, Number	Recov. (ft)	Pen. Resist. (blows/6 in)	Run Number	Recov. (%)	RQD (%)	Graphic Log	DESCRIPTION Tidnig	Plastic Limit	% Fines	REMARKS			
-	S-1	1.0	4 6 7 9					<u>3" Concrete Slab</u> FILL: Brown and dark gray coarse to fine Sand, some Gravel, _ concrete fragments, trace Silt			Cored through concrete slab S-1: Moist			
-	S-2	0.7	3 4 9 13					Brown medium to fine Sand, some Gravel, some Silt, trace Concrete fragments			S-2: Moist			
5-	S-3	0.9	7 6 9 9					Brown medium to fine Sand, some Gravel, Silt, trace Brick fragments, roots			S-3: Moist			
-	S-4	0.9	9 13 9 8					Same as above.			S-4: Moist			
10-	S-5	1.0	7 7 8 9					Gray and brown medium to fine Sand, some Gravel, Silt			S-5: Moist			
-	S-6A	0.5	5 5					Same as above.			S-6: Moist. Cased to 15 ft. with 4" casing.			
-	S-6B	0.5	6 8					NATURAL: Brown medium to fine silty Sand - (SM) -			_			
- 15-			8				0 0 0 0	Brown coarse to fine gravelly Sand			Rig chatter from 13 to 15 ft.			
-	S-7	0.5	6 3 7				0 0 0 0				Rig chatter from 17 to			
								Cored through Boulders			18 ft. Cased to 18 ft. with 4" casing			
20								GES P C						
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Template: GENERAL GES LOGO Proj ID: NORTH BROADWAY ASSEMBLAGE - 2 (1).GPJ

# Log of Boring B-2

Project: North Broadway Assemblage Project										ctl	Nur	nbe	er: 2019038	
Loca	tion:	23 (	Overl	ook 1	[erra	ce, Y	onker	s, NY						
	Soil	Sam	ples	Roc	k Co	ring						(%)		
<b>Depth</b> , feet	Type, Number	Recov. (ft)	Pen. Resist. (blows/6 in)	Run Number	Recov. (%)	RQD (%)	Graphic Log	DESCRIPTION		ridnia rimit	Plastic Limit	Water Cont.	% Fines	REMARKS
	-			C-1	16	0		- - 	-					
- 25								Medium hard gray Mica Schist, slight to moderate weathering at joints, trace Quartz and Garnet intrusion	_					Cased to 23.5 ft. with 3" casing Advanced to 25 ft with roller bit. Top 1 foot of rock core is likely decomposed
-				C-2	83	58		-	-					rock
<b>30</b> - -								Boring Completed at 30 ft. Backfilled with soil cuttings and patched with concrete upon completion.	-					
35 - -								-	_					
40 - -								-						
								—— GES P.C. ———						Printed: 4/22/40

10 BAL DATA V PLACE, YONKERS, NO3655- BORING # RW # DEPTH LENGTH REC(1) FR B-1 1 4-8' 4' 92-1 B-1 2 8-125' 45' 1001 B-1 3 125-17 1.5' 1001	R R D(-), 427,
	547 58 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

CES	ROCK CORE PHOTOGRAPHIC PLATE					Project Name:	North Broadway Assemblage			
GES	Boring No.	Core No.	Depth (ft)	Rec %	RQD %	Project	ct 10 Baldwin Place and 25 Overlo			
	B-1	C-1	4-8	92	42	Location:	Τe	errace, Yonkers, NY		
	B-1	C-2	8-12.5	100	50	Dwg No.	Ар	pendix B, Plate 1		
	B-1	C-3	12.5-17	95	54	Drawn By:	DIC	Project No: 2010038		
6 Payborny Pood	B-2	C-1	25-30	83	58		DJG	FI0Ject NO. 2019030		
0 Dayberry Road						Chilkod Bu	714	Data: 4/10/2010		
EIIIISIOIU, NY 10523						спкеа ву:	ZIVI	Date: 4/19/2019		