



**TR5: Technical Report
Pile Driving**
Must be typewritten.

☒ Orient and affix BIS
job number label here ☒

Sheet number _____ of _____ sheets

1 Location Information *Required for all applications.*

House No(s) 91 Street Name GATEWAY DRIVE

Borough BROOKLYN Block Lot BIN CB No.

2 Applicant Information *Required for all applications.*

Last Name LOFTUS First Name WILLIAM Middle Initial F

Business Name LOFTUS ENGINEERING Business Telephone 201 871-4800

Business Address PO BOX 400 Business Fax

City STONY POIN State NY Zip 10980 Mobile Telephone 201 832-0006

E-Mail WFLOFTUS1@AOL.COM License Number 39047

☒ P.E. ☐ R.A.

3 Pile Driving Contractor *Required for all applications.*

Last Name MICHAEL First Name DESOUSA Middle Initial

Business Name MARINE BULKHEADING INC Business Telephone 516 785-7557

Business Address 3512 BAY COURT Business Fax 516 785-2280

City SEAFORD State NY Zip 11783 Mobile Telephone 516 315-4582

4 Pile Information *Required for all applications.*

Type TREATED TIMBER

Material WOOD

Load Capacity 30 tons

5 Hammer Information *Required for all applications.*

Make JUNTAN

Model Number HHK-4

Energy 13230 FT-LBS

6 Statements and Signatures *Required for all applications.*

I hereby state that the above information is correct and complete to the best of my knowledge and that the above tests were performed in accordance with all Administrative Code Provisions and Departmental Rules, Regulations and Directives.

Falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both.

It is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by imprisonment or fine or both.

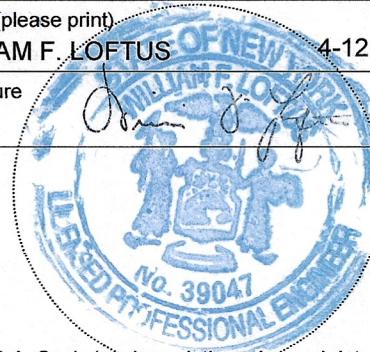
Name (please print)

WILLIAM F. LOFTUS

4-12-23

Signature

Date



P.E. / R.A. Seal (apply seal, then sign and date over seal)

Approvals - Internal Use Only

Examined and Recommended for Approval		Approved	
Examiner Name		Borough Commissioner Signature	Date
Signature	Date		

PILE SUMMARY REPORT

Loftus Engineering

FOUNDATION ENGINEERS PO Box 400 Stony Point, New York 10980

JOB # Y-7742

1. APPLICATION NO.			3. CONTRACTOR			4. PILE TYPE			5. HAMMER			6. CAPACITY			7. 30 Tons		
2. LOCATION			Nehemiah Spring Creek Phase 4C			Marine Bulkheading Inc.			Treated Timber			CAPACITY			13230 FT-LBS		
Brooklyn, New York						Junttan HHK-4			ENERGY								
PILE	PILE	PILE	PILE	DIAMETERS		ELEVATION		PILE	PILE	BLOWS/INCH	CALCULATED	DEVIATION FROM		VARIATION	REMARKS		
DRIVING	DRIVING	No.	LENGTH	TIP	CUT	CUT	TIP	LENGTH	LENGTH	PENETRATION	BEARING	DESIGNATED	FROM	REMARKS			
ORDER	DATE		[ORIGINAL]		OFF	OFF		TIP to	TIP to	AT COMPLETION	CAPACITY	LOCATION	PLUMB				
	[2023]							CUT OFF	GROUND	of DRIVING	in TONS	N-S E-W					
751	21-Mar	380	30.0	8"	12"	11.43	-9.50	20.93	24.00	3	30 Tons	BY OTHERS	OK	Spud			
752	21-Mar	393	30.0			10.93	-8.50	19.43	23.00					Spud			
753	21-Mar	395	30.0			10.93	-8.50	19.43	23.00					Spud			
754	21-Mar	396	30.0			10.93	-8.50	19.43	23.00					Spud			
755	21-Mar	394	35.0			10.93	-8.50	19.43	23.00					Spud			
756	21-Mar	397	35.0			10.93	-10.50	21.43	25.00					Spud			
757	21-Mar	398	35.0			10.93	-9.50	20.43	24.00					Spud			
758	21-Mar	399	35.0			10.93	-11.50	22.43	26.00					Spud			
759	21-Mar	400	35.0			10.93	-11.50	22.43	26.00					Spud			
760	21-Mar	401	35.0			10.93	-10.50	21.43	25.00					Spud			
761	21-Mar	348	35.0			11.37	-13.00	24.37	25.00					Spud			
762	21-Mar	349	35.0			11.37	-11.00	22.37	23.00					Spud			
763	21-Mar	350	35.0			11.37	-9.00	20.37	21.00					Spud			
764	21-Mar	351	35.0			11.37	-12.00	23.37	24.00					Spud			
765	21-Mar	352	35.0			11.37	-8.00	19.37	20.00					Spud			
766	21-Mar	353	35.0			11.37	-8.00	19.37	20.00					Spud			
767	21-Mar	354	35.0			11.37	-9.00	20.37	21.00					Spud			
768	21-Mar	355	35.0			11.37	-9.00	20.37	21.00					Spud			
769	21-Mar	356	35.0			11.37	-8.00	19.37	20.00					Spud			
770	22-Mar	357	35.0			11.37	-8.00	19.37	20.00					Spud			
771	22-Mar	358	35.0			11.37	-8.00	19.37	20.00					Spud			
772	22-Mar	359	35.0			11.37	-10.00	21.37	22.00					Spud			
773	22-Mar	360	35.0			11.37	-10.00	21.37	22.00					Spud			
774	22-Mar	361	35.0			11.37	-11.00	22.37	23.00					Spud			
775	22-Mar	362	35.0	▼	▼	11.37	-9.00	20.37	21.00	▼	▼		▼	Spud			

I hereby certify that this is a true record of the driving of piles in this location, and that all piles have been installed in accordance with design and New York City Building Code Requirements, except as noted.

License Number Date: March 22, 2023
 39047,7208m NY Signature of Prof. Engr. Or Arch.

PILE SUMMARY REPORT

Loftus Engineering

JOB # Y-7742

FOUNDATION ENGINEERS PO Box 400 Stony Point, New York 10980

1. APPLICATION NO.		3. CONTRACTOR		4. PILE TYPE		5. HAMMER		CAPACITY		30 Tons					
2. LOCATION		Nehemiah Spring Creek Phase 4C		Treated Timber		Junttan HHK-4		ENERGY		13230 FT-LBS.					
Brooklyn, New York															
PILE	PILE	PILE	PILE	DIAMETERS		ELEVATION		PILE	PILE	BLOWS/INCH	CALCULATED	DEVIATION FROM		VARIATION	REMARKS
DRIVING	DRIVING	No.	LENGTH					LENGTH	LENGTH	PENETRATION	BEARING	DESIGNATED		FROM	
ORDER	DATE		[ORIGINAL]	TIP	CUT	CUT	TIP	TIP to	TIP to	AT COMPLETION	CAPACITY	LOCATION		PLUMB	
	[2012]				OFF	OFF		CUT OFF	GROUND	of DRIVING	in TONS	N-S	E-W		
776	22-Mar	363	35.0	8"	12"	11.37	-11.00	22.37	23.00	3	30 Tons	BY OTHERS		OK	Spud
777	22-Mar	364	35.0			11.37	-12.00	23.37	24.00						Spud
778	22-Mar	365	30.0			11.37	-11.00	22.37	23.00						Spud
779	22-Mar	366	35.0			11.37	-11.00	22.37	23.00						Spud
780	22-Mar	367	35.0			11.37	-10.00	21.37	22.00						Spud
781	22-Mar	368	35.0			11.37	-12.00	23.37	24.00						Spud
782	22-Mar	369	35.0			11.37	-12.00	23.37	24.00						Spud
783	22-Mar	370	35.0			11.37	-12.00	23.37	24.00						Spud
784	22-Mar	371	35.0			11.37	-12.00	23.37	24.00						Spud
785	22-Mar	372	35.0			11.37	-13.00	24.37	25.00						Spud
786	22-Mar	373	35.0			11.37	-11.00	22.37	23.00						Spud
787	22-Mar	374	35.0			11.37	-13.00	24.37	25.00						Spud
788	22-Mar	375	35.0			11.37	-12.00	23.37	24.00						Spud
789	22-Mar	376	35.0			11.37	-12.00	23.37	24.00						Spud
790	22-Mar	347	35.0			11.87	-8.50	20.37	23.00						Spud
791	22-Mar	339	35.0			11.87	-8.50	20.37	23.00						Spud
792	22-Mar	340	35.0			11.87	-7.50	19.37	22.00						Spud
793	22-Mar	346	35.0			11.87	-6.50	18.37	21.00						Spud
794	22-Mar	341	35.0			11.87	-9.50	21.37	24.00						Spud
795	22-Mar	342	35.0			11.87	-8.50	20.37	23.00						Spud
796	22-Mar	343	35.0			11.87	-8.50	20.37	23.00						Spud
797	22-Mar	344	35.0			11.87	-8.50	20.37	23.00						Spud
798	22-Mar	345	35.0			11.87	-9.50	21.37	24.00						Spud
799	22-Mar	310	35.0			11.37	-12.00	23.37	24.00						Spud
800	22-Mar	311	35.0	Y	Y	11.37	-11.00	22.37	23.00	Y	Y			Y	Spud

I hereby certify that this is a true record of the driving of piles in this location, and that all piles have been installed in accordance with design and New York City Building Code Requirements, except as noted.

License Number: 39047,7208m NY
 Signature of Prof. Engr. Or Arch.
 Date: March 22, 2023

PILE SUMMARY REPORT

Loftus Engineering

JOB # Y-7742

FOUNDATION ENGINEERS PO Box 400 Stony Point, New York 10980

1. APPLICATION NO.		3. CONTRACTOR		4. PILE TYPE		5. HAMMER		Marine Bulkheading Inc.		30 Tons					
2. LOCATION		Nehemiah Spring Creek Phase 4C		Treated Timber		CAPACITY		ENERGY		13230 FT-LBS.					
Brooklyn, New York				Juntan HHK-4											
PILE	PILE	PILE	PILE	DIAMETERS		ELEVATION		PILE	PILE	BLOWS/INCH	CALCULATED	DEVIATION FROM		VARIATION	REMARKS
DRIVING	DRIVING	No.	LENGTH					LENGTH	LENGTH	PENETRATION	BEARING	DESIGNATED	FROM		
ORDER	DATE		[ORIGINAL]	TIP	CUT	CUT	TIP	TIP to	TIP to	AT COMPLETION	CAPACITY	LOCATION	PLUMB		
	[2023]				OFF	OFF		CUT OFF	GROUND	of DRIVING	in TONS	N-S	E-W		
801	23-Mar	312	35.0	8"	12"	11.37	-13.00	24.37	25.00	3	30 Tons	BY OTHERS		OK	Spud
802	23-Mar	313	35.0			11.37	-12.00	23.37	24.00						Spud
803	23-Mar	314	35.0			11.37	-11.00	22.37	23.00						Spud
804	23-Mar	315	35.0			11.37	-12.00	23.37	24.00						Spud
805	23-Mar	316	35.0			11.37	-12.00	23.37	24.00						Spud
806	23-Mar	317	35.0			11.37	-11.00	22.37	23.00						Spud
807	23-Mar	318	35.0			11.37	-13.00	24.37	25.00						Spud
808	23-Mar	319	35.0			11.37	-12.00	23.37	24.00						Spud
809	23-Mar	320	35.0			11.37	-12.00	23.37	24.00						Spud
810	23-Mar	321	35.0			11.37	-10.00	21.37	22.00						Spud
811	23-Mar	322	35.0			11.37	-9.00	20.37	21.00						Spud
812	23-Mar	323	35.0			11.37	-10.00	21.37	22.00						Spud
813	23-Mar	324	35.0			11.37	-11.00	22.37	23.00						Spud
814	23-Mar	325	35.0			11.37	-11.00	22.37	23.00						Auger 10'
815	23-Mar	326	35.0			11.37	-11.00	22.37	23.00						Auger 10'
816	23-Mar	327	35.0			11.37	-12.00	23.37	24.00						Auger 10'
817	23-Mar	328	35.0			11.37	-10.00	21.37	22.00						Auger 10'
818	23-Mar	329	35.0			11.37	-9.00	20.37	21.00						Auger 10'
819	23-Mar	330	35.0			11.37	-9.00	20.37	21.00						Auger 10'
820	23-Mar	331	35.0			11.37	-8.00	19.37	20.00						Auger 10'
821	23-Mar	332	35.0			11.37	-8.00	19.37	20.00						Spud
822	23-Mar	333	35.0			11.37	-12.00	23.37	24.00						Spud
823	23-Mar	334	35.0			11.37	-12.00	23.37	24.00						Spud
824	23-Mar	335	35.0			11.37	-12.00	23.37	24.00						Spud
825	23-Mar	336	40.0			11.37	-11.00	22.37	23.00						Spud

I hereby certify that this is a true record of the driving of piles in this location, and that all piles have been installed in accordance with design and New York City Building Code Requirements, except as noted.

License Number: 39047,7208m NY Date: March 23, 2023
Signature of Prof. Engr. Or Arch.

PILE SUMMARY REPORT

Loftus Engineering

JOB # Y-7742

FOUNDATION ENGINEERS PO Box 400 Stony Point, New York 10980

1. APPLICATION NO.		3. CONTRACTOR		Marine Bulkheading Inc.		30 Tons									
2. LOCATION		Nehemiah Spring Creek Phase 4C		4. PILE TYPE		Treated Timber									
Brooklyn, New York		5. HAMMER		Junttan HHK-4		CAPACITY									
						ENERGY									
						13230 FT-LBS.									
PILE	PILE	PILE	PILE	DIAMETERS		ELEVATION		PILE	PILE	BLOWS/INCH	CALCULATED	DEVIATION FROM		VARIATION	REMARKS
DRIVING	DRIVING	No.	LENGTH					LENGTH	LENGTH	PENETRATION	BEARING	DESIGNATED			
ORDER	DATE		[ORIGINAL]	TIP	CUT	CUT	TIP	TIP to	TIP to	AT COMPLETION	CAPACITY	LOCATION			
	[2012]				OFF	OFF		CUT OFF	GROUND	of DRIVING	in TONS	N-S	E-W		
826	23-Mar	337	40.0	8"	12"	11.37	-13.00	24.37	25.00	3	30 Tons	BY OTHERS		OK	Spud
827	23-Mar	338	40.0			11.37	-13.00	24.37	25.00						Spud
828	23-Mar	282	40.0			11.37	-12.00	23.37	23.00						Spud
829	23-Mar	272	40.0			11.37	-24.00	35.37	35.00						Spud
830	24-Mar	274	40.0			11.37	-12.00	23.37	23.00						Spud
831	24-Mar	276	40.0			11.37	-23.00	34.37	34.00						Spud
832	24-Mar	278	40.0			11.37	-12.00	23.37	23.00						Spud
833	24-Mar	280	40.0			11.37	-12.00	23.37	23.00						Spud
834	24-Mar	284	40.0			11.37	-13.00	24.37	24.00						Spud
835	24-Mar	286	40.0			11.37	-15.00	26.37	26.00						Spud
836	24-Mar	288	40.0			11.37	-14.00	25.37	25.00						Spud
837	24-Mar	290	40.0			11.37	-13.00	24.37	24.00						Spud
838	24-Mar	292	40.0			11.37	-12.00	23.37	23.00						Spud
839	24-Mar	294	40.0			11.37	-11.00	22.37	22.00						Spud
840	24-Mar	296	40.0			11.37	-13.00	24.37	24.00						Spud
841	24-Mar	298	40.0			11.37	-13.00	24.37	24.00						Spud
842	24-Mar	300	40.0			11.37	-13.00	24.37	24.00						Spud
843	24-Mar	301	35.0			11.87	-8.50	20.37	23.00						Spud
844	24-Mar	302	35.0			11.87	-9.50	21.37	24.00						Spud
845	24-Mar	308	35.0			11.87	-7.50	19.37	22.00						Spud
846	24-Mar	309	35.0			11.87	-6.50	18.37	21.00						Spud
847	24-Mar	307	35.0			11.87	-8.50	20.37	23.00						Spud
848	24-Mar	303	35.0			11.87	-7.50	19.37	22.00						Spud
849	24-Mar	306	35.0			11.87	-8.50	20.37	23.00						Spud
850	24-Mar	305	35.0			11.87	-7.50	19.37	22.00						Spud

I hereby certify that this is a true record of the driving of piles in this location, and that all piles have been installed in accordance with design and New York City Building Code Requirements, except as noted.

License Number.....
39047,7208m NY
Signature of Prof. Engr. Or Arch.

Date: March 24, 2023

PILE SUMMARY REPORT

Loftus Engineering

JOB #: Y-7742

FOUNDATION ENGINEERS PO Box 400 Stony Point, New York 10980

1. APPLICATION NO.		3. CONTRACTOR		Marine Bulkheading Inc.		30 Tons								
2. LOCATION		4. PILE TYPE		Treated Timber		CAPACITY								
Nehemiah Spring Creek Phase 4C		Juntan HHK-4		ENERGY		13230 FT-LBS.								
Brooklyn, New York														
PILE	PILE	PILE	PILE	DIAMETERS	ELEVATION	PILE	PILE	BLOWS/INCH	CALCULATED	DEVIATION FROM	VARIATION	REMARKS		
DRIVING	DRIVING	No.	LENGTH	TIP	CUT	LENGTH	LENGTH	PENETRATION	BEARING	DESIGNATED	FROM			
ORDER	DATE		[ORIGINAL]			TIP to	TIP to	AT COMPLETION	CAPACITY	LOCATION	PLUMB			
	[2023]			OFF	OFF	CUT OFF	GROUND	of DRIVING	in TONS	N-S	E-W			
851	24-Mar	304	30.0	8"	12"	11.87	-9.50	21.37	24.00	3	30 Tons	BY OTHERS	OK	Spud
852	24-Mar	853	30.0			11.87	-8.50	20.37	23.00					Spud
853	24-Mar	854	30.0			11.87	-8.50	20.37	23.00					Spud
854	24-Mar	855	30.0			11.87	-9.50	21.37	24.00					Spud
855	27-Mar	949	35.0			11.67	-19.00	30.67	33.00					Auger 10'
856	27-Mar	950	35.0			11.67	-21.00	32.67	35.00					Auger 10'
857	27-Mar	952	40.0			11.67	-23.00	34.67	37.00					Auger 10'
858	27-Mar	953	40.0			11.67	-27.00	38.67	41.00					Auger 10'
859	27-Mar	954	40.0			11.67	-25.00	36.67	39.00					Auger 10'
860	27-Mar	955	40.0			11.67	-19.00	30.67	33.00					Auger 10'
861	27-Mar	956	40.0			11.67	-22.00	33.67	36.00					Auger 10'
862	27-Mar	957	40.0			11.67	-24.00	35.67	38.00					Auger 10'
863	27-Mar	958	40.0			11.67	-19.00	30.67	33.00					Auger 10'
864	27-Mar	959	40.0			11.67	-24.00	35.67	38.00					Auger 10'
865	27-Mar	960	40.0			11.67	-24.00	35.67	38.00					Auger 10'
866	27-Mar	961	40.0			11.67	0.00	0.00	0.00					Obst Bkn
867	27-Mar	961A	40.0			11.67	-8.00	19.67	22.00					Auger 10'
868	27-Mar	962	40.0			11.67	-11.00	22.67	25.00					Auger 10'
869	27-Mar	963	40.0			11.67	-9.00	20.67	23.00					Auger 10'
870	27-Mar	964	40.0			11.67	-22.00	33.67	36.00					Auger 10'
871	27-Mar	947	40.0			11.67	-20.00	31.67	34.00					Auger 10'
872	27-Mar	948	40.0			11.67	-18.00	29.67	32.00					Auger 10'
873	27-Mar	941	40.0			11.67	-10.00	21.67	24.00					Auger 10'
874	27-Mar	940	40.0			11.67	-12.00	23.67	26.00					Auger 10'
875	27-Mar	946	40.0			11.67	-21.00	32.67	35.00					Auger 10'

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I hereby certify that this is a true record of the driving of piles in this location, and that all piles have been installed in accordance with design and New York City Building Code Requirements, except as noted.

License Number: 39047, 7208m NY Date: March 27, 2023 Signature of Prof. Engr. Of Arch. PAGE 35

PILE SUMMARY REPORT

Loftus Engineering

JOB #: Y-7742

FOUNDATION ENGINEERS PO Box 400 Stony Point, New York 10980

1. APPLICATION NO.		3. CONTRACTOR		4. PILE TYPE		5. HAMMER		Marine Bulkheading Inc.		Treated Timber		Junttan HHK-4		CAPACITY		ENERGY		30 Tons		13230 FT-LBS.	
2. LOCATION		Nehemiah Spring Creek Phase 4C																Brooklyn, New York			
PILE	PILE	PILE	PILE	DIAMETERS		ELEVATION		PILE	PILE	BLOWS/INCH	CALCULATED	DEVIATION FROM		VARIATION	REMARKS						
DRIVING ORDER	DRIVING DATE	No.	LENGTH [ORIGINAL]	TIP	CUT	CUT	TIP	LENGTH TIP to	LENGTH TIP to	PENETRATION AT COMPLETION	BEARING CAPACITY	LOC	DESIGNATED	FROM							
	[2023]				OFF	OFF		CUT OFF	GROUND	of DRIVING	in TONS	N-S	E-W	PLUMB							
876	27-Mar	942	40.0	8"	12"	11.67	-16.00	27.67	30.00	3	30 Tons			OK	Auger 10'						
877	27-Mar	945	40.0			11.67	-19.00	30.67	33.00						Auger 10'						
878	27-Mar	944	40.0			11.67	-20.00	31.67	34.00						Auger 10'						
879	27-Mar	943	40.0			11.67	-23.00	34.67	37.00						Auger 10'						
880	27-Mar	856	30.0			10.51	-10.00	20.51	24.00						Spud						
881	27-Mar	857	30.0			10.51	-9.00	19.51	23.00						Spud						
882	27-Mar	858	30.0			10.51	-9.00	19.51	23.00						Spud						
883	27-Mar	859	30.0			10.51	-10.00	20.51	24.00						Spud						
884	27-Mar	860	35.0			10.51	-9.00	19.51	23.00						Spud						
885	27-Mar	861	35.0			10.51	-10.00	20.51	24.00						Spud						
886	27-Mar	862	35.0			10.51	-10.00	20.51	24.00						Spud						
887	27-Mar	863	35.0			10.51	-10.00	20.51	24.00						Spud						
888	27-Mar	864	35.0			10.51	-9.00	19.51	23.00						Spud						
889	27-Mar	865	35.0			10.51	-9.00	19.51	23.00						Spud						
890	27-Mar	866	35.0			10.51	-11.00	21.51	25.00						Spud						
891	27-Mar	867	35.0			10.51	-14.00	24.51	28.00						Spud						
892	27-Mar	868	35.0			10.51	-9.00	19.51	23.00						Spud						
893	27-Mar	869	35.0			10.51	-10.00	20.51	24.00						Spud						
894	27-Mar	870	35.0			10.51	-10.00	20.51	24.00						Spud						
895	27-Mar	871	35.0			10.51	-10.00	20.51	24.00						Spud						
896	27-Mar	872	35.0			10.51	-10.00	20.51	24.00						Spud						
897	27-Mar	873	35.0			10.51	-8.00	18.51	22.00						Spud						
898	27-Mar	874	35.0			10.51	-10.00	20.51	24.00						Spud						
899	27-Mar	875	35.0			10.51	-9.00	19.51	23.00						Spud						
900	27-Mar	844	35.0	Y		11.01	-10.00	21.01	24.00	Y				Y	Spud						

I hereby certify that this is a true record of the driving of piles in this location, and that all piles have been installed in accordance with design and New York City Building Code Requirements, except as noted.

License Number.....	Date:	March 27, 2023
39047,7208m NY	Signature of Prof. Engr. Or Arch.	
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Loftus Engineering

FOUNDATION ENGINEERS PO Box 400 Stony Point, New York 10980

1. APPLICATION NO.		3. CONTRACTOR		4. PILE TYPE		5. HAMMER		Marine Bulkheading Inc.		CAPACITY		30 Tons		
2. LOCATION		Nehemiah Spring Creek Phase 4C		4. PILE TYPE		5. HAMMER		Treated Timber		CAPACITY		30 Tons		
Brooklyn, New York								Juntan HHK-4		ENERGY		13230 FT-LBS.		
PILE	PILE	PILE	PILE	DIAMETERS		ELEVATION		PILE	PILE	BLOWS/INCH	CALCULATED	DEVIATION FROM	VARIATION	REMARKS
DRIVING ORDER	DRIVING DATE	No.	LENGTH [ORIGINAL]	TIP	CUT	CUT	TIP	LENGTH TIP to CUT OFF	LENGTH TIP to GROUND	PENETRATION AT COMPLETION OF DRIVING	BEARING CAPACITY in TONS	DESIGNATED LOCATION N-S E-W	FROM PLUMB	
	[2023]				OFF	OFF				3	30 Tons			
901	27-Mar	830	40.0	8"	12"	11.01	-11.00	22.01	25.00					Spud
902	27-Mar	831	40.0			11.01	-10.00	21.01	24.00					Spud
903	27-Mar	832	40.0			11.01	-11.00	22.01	25.00					Spud
904	27-Mar	833	45.0			11.01	-10.00	21.01	24.00					Spud
905	27-Mar	834	45.0			11.01	-11.00	22.01	25.00					Spud
906	27-Mar	835	45.0			11.01	-11.00	22.01	25.00					Spud
907	28-Mar	1022	35.0			11.60	-17.50	29.10	33.00					Auger 10'
908	28-Mar	1023	35.0			11.60	-18.50	30.10	34.00					Auger 10'
909	28-Mar	1024	36.0			11.60	-20.50	32.10	36.00					Auger 10'
910	28-Mar	1025	35.0			11.60	-15.50	27.10	31.00					Auger 10'
911	28-Mar	1026	35.0			11.60	-17.00	28.60	32.50					Auger 10'
912	28-Mar	1027	35.0			11.60	-15.50	27.10	31.00					Auger 10'
913	28-Mar	1029	35.0			11.60	-16.50	28.10	32.00					Auger 10'
914	28-Mar	1028	35.0			11.60	-6.00	17.60	21.50					Auger 10'
915	28-Mar	1030	35.0			11.60	-3.25	14.85	18.75					Auger 10'
916	28-Mar	1031	35.0			11.60	-5.00	16.60	20.50					Auger 10'
917	28-Mar	1032	35.0			11.60	-12.50	24.10	28.00					Auger 10'
918	28-Mar	1033	35.0			11.60	-4.50	16.10	20.00					Auger 10'
919	28-Mar	1034	35.0			11.60	-4.50	16.10	20.00					Auger 10'
920	28-Mar	1035	35.0			11.60	-15.50	27.10	31.00					Auger 10'
921	28-Mar	1036	35.0			11.60	-16.50	28.10	32.00					Auger 10'
922	28-Mar	1037	35.0			11.60	-18.50	30.10	34.00					Auger 10'
923	28-Mar	1038	35.0			11.60	-18.50	30.10	34.00					Auger 10'
924	28-Mar	1039	35.0			11.60	-17.50	29.10	33.00					Auger 10'
925	28-Mar	1040	35.0	Y	Y	11.60	-17.50	29.10	33.00	Y	Y		Y	Auger 10'

Professional Engineer

State of New York

39047, J208m

NY

March 28, 2023

Signature of Prof. Engr. Or Arch.

I hereby certify that this is a true record of the driving of piles in this location, and that all piles have been installed in accordance with design and New York City Building Code Requirements, except as noted.

License Number: 39047, J208m NY

Signature of Prof. Engr. Or Arch.

Date: March 28, 2023

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PILE SUMMARY REPORT

Loftus Engineering

FOUNDATION ENGINEERS PO Box 400 Stony Point, New York 10980

JOB # Y-7742:

1. APPLICATION NO.		3. CONTRACTOR		Marine Bulkheading Inc.		30 Tons									
2. LOCATION		Nehemiah Spring Creek Phase 4C		4. PILE TYPE		Treated Timber									
Brooklyn, New York		5. HAMMER		Junttan HHK-4		ENERGY									
13230 FT-LBS.															
PILE	PILE	PILE	PILE	DIAMETERS		ELEVATION		PILE	PILE	BLOWS/INCH	CALCULATED	DEVIATION FROM		VARIATION	REMARKS
DRIVING	DRIVING	No.	LENGTH	TIP	CUT	CUT	TIP	LENGTH	LENGTH	PENETRATION	BEARING	DESIGNATED	FROM	REMARKS	
ORDER	DATE		[ORIGINAL]		OFF	OFF		TIP to	TIP to	AT COMPLETION	CAPACITY	LOCATION	PLUMB		
	[2014]							CUT OFF	GROUND	of DRIVING	in TONS	N-S	E-W		
926	28-Mar	1041	35.0	8"	12"	11.60	-17.50	29.10	33.00	3	30 Tons	BY OTHERS		OK	Auger 10'
927	28-Mar	1042	35.0			11.60	-19.50	31.10	35.00						Auger 10'
928	28-Mar	1043	35.0			11.60	-18.50	30.10	34.00						Auger 10'
929	28-Mar	1044	35.0			11.60	-18.50	30.10	34.00						Auger 10'
930	28-Mar	1020	35.0			12.10	-15.50	27.60	31.00						Auger 10'
931	28-Mar	1014	35.0			12.10	-18.50	30.60	34.00						Auger 10'
932	28-Mar	836	40.0			11.01	-12.00	23.01	26.00						Spud
933	28-Mar	837	35.0			11.01	-15.00	26.01	29.00						Spud
934	28-Mar	838	35.0			11.01	-12.00	23.01	26.00						Spud
935	28-Mar	839	40.0			11.01	-13.00	24.01	27.00						Spud
936	28-Mar	840	40.0			11.01	-14.00	25.01	28.00						Spud
937	28-Mar	841	35.0			11.01	-13.00	24.01	27.00						Spud
938	28-Mar	842	40.0			11.01	-12.00	23.01	26.00						Spud
939	28-Mar	843	40.0			11.01	-13.00	24.01	27.00						Spud
940	28-Mar	845	40.0			11.01	-11.00	22.01	25.00						Spud
941	28-Mar	851	40.0			11.01	-9.00	20.01	23.00						Spud
942	28-Mar	852	40.0			11.01	-10.00	21.01	24.00						Spud
943	28-Mar	850	40.0			11.01	-12.00	23.01	26.00						Spud
944	28-Mar	846	40.0			11.01	-10.00	21.01	24.00						Spud
945	28-Mar	849	40.0			11.01	-11.00	22.01	25.00						Spud
946	28-Mar	848	40.0			11.01	-12.00	23.01	26.00						Spud
947	28-Mar	847	40.0			11.01	-11.00	22.01	25.00						Spud
948	28-Mar	876	40.0			11.23	-13.00	24.23	27.00						Spud
949	28-Mar	877	40.0			11.23	-11.00	22.23	25.00						Spud
950	28-Mar	883	40.0			11.23	-10.00	21.23	24.00						Spud

I hereby certify that this is a true record of the driving of piles in this location, and that all piles have been installed in accordance with design and New York City Building Code Requirements, except as noted.

License Number: 39047,7208m NY Date: March 28, 2023

Signature of Prof. Engr. Or Arch. *[Signature]*

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PILE SUMMARY REPORT

Loftus Engineering

JOB # Y-7742:

FOUNDATON ENGINEERS 1PO Box 400 Stony Point, New York 10980

1. APPLICATION NO.		3. CONTRACTOR		Marine Bulkheading Inc.		30 Tons									
2. LOCATION		Nehemiah Spring Creek Phase 4C		4. PILE TYPE		Treated Timber		CAPACITY	13230 FT-LBS.						
Brooklyn, New York		5. HAMMER		Junttan HHK-4		ENERGY									
PILE ORDER	PILE DRIVING DATE	PILE No.	PILE LENGTH [ORIGINAL]	DIAMETERS TIP CUT		ELEVATION CUT TIP		PILE LENGTH TIP to CUT OFF	PILE LENGTH TIP to GROUND	BLOWS/INCH PENETRATION AT COMPLETION of DRIVING	CALCULATED BEARING CAPACITY in TONS	DEVIATION FROM DESIGNATED LOCATION N-S E-W		VARIATION FROM PLUMB	REMARKS
951	28-Mar	884	40.0	8"	12"	11.23	-13.00	24.23	27.00	3	30 Tons			OK	Spud
952	28-Mar	882	40.0			11.23	-11.00	22.23	25.00						Spud
953	28-Mar	878	40.0			11.23	-12.00	23.23	26.00						Spud
954	28-Mar	881	40.0			11.23	-10.00	21.23	24.00						Spud
955	28-Mar	880	40.0			11.23	-10.00	21.23	24.00						Spud
956	28-Mar	879	40.0			11.23	-11.00	22.23	25.00						Spud
957	28-Mar	885	40.0			10.73	-10.00	20.73	24.00						Spud
958	29-Mar	1019	40.0			12.10	-11.50	23.60	27.00						Auger 10'
959	29-Mar	1021	40.0			12.10	-13.50	25.60	29.00						Auger 10'
960	29-Mar	1015	40.0			12.10	-2.50	14.60	18.00						Auger 10'
961	29-Mar	1018	40.0			12.10	-7.50	19.60	23.00						Auger 10'
962	29-Mar	1017	40.0			12.10	-13.50	25.60	29.00						Auger 10'
963	29-Mar	1016	40.0			12.10	-9.50	21.60	25.00						Auger 10'
964	29-Mar	990	40.0			11.38	-24.50	35.88	40.00						Auger 10'
965	29-Mar	991	35.0			11.38	-13.50	24.88	29.00						Auger 10'
966	29-Mar	992	35.0			11.38	-3.00	14.38	18.50						Auger 10'
967	29-Mar	993	35.0			11.38	-3.50	14.88	19.00						Auger 10'
968	29-Mar	994	35.0			11.38	-4.50	15.88	20.00						Auger 10'
969	29-Mar	995	40.0			11.38	-24.50	35.88	40.00						Auger 10'
970	29-Mar	996	40.0			11.38	-18.50	29.88	34.00						Auger 10'
971	29-Mar	997	40.0			11.38	-21.50	32.88	37.00						Auger 10'
972	29-Mar	998	40.0			11.38	-19.50	30.88	35.00						Auger 10'
973	29-Mar	1013	40.0			12.10	-19.50	31.60	35.00						Auger 10'
974	29-Mar	999	35.0			11.38	-18.50	29.88	34.00						Auger 10'
975	29-Mar	1000	35.0			11.38	-17.50	28.88	33.00						Auger 10'

I hereby certify that this is a true record of the driving of piles in this location, and that all piles have been installed in accordance with design and New York City Building Code Requirements, except as noted.

License Number: 39047/7208m NY
 Signature of Prof. Engr. Or Arch.
 Date: March 29, 2023

PILE SUMMARY REPORT

Loftus Engineering

JOB # Y-7742:

FOUNDATTION ENGINEERS 1PO Box 400 Stony Point, New York 10980

1. APPLICATION NO.		3. CONTRACTOR		Marine Bulkheading Inc.		30 Tons									
2. LOCATION		Nehemiah Spring Creek Phase 4C		4. PILE TYPE		Treated Timber		CAPACITY		13230 FT-LBS.					
Brooklyn, New York		5. HAMMER		Junttan HHK-4		ENERGY									
PILE	PILE	PILE	PILE	DIAMETERS		ELEVATION		PILE	PILE	BLOWS/INCH	CALCULATED	DEVIATION FROM		VARIATION	REMARKS
DRIVING	DRIVING	No.	LENGTH					LENGTH	LENGTH	PENETRATION	BEARING	DESIGNATED		FROM	
ORDER	DATE		[ORIGINAL]	TIP	CUT	CUT	TIP	TIP to	TIP to	AT COMPLETION	CAPACITY	LOCATION	N-S	E-W	PLUMB
	[2012]				OFF	OFF		CUT OFF	GROUND	of DRIVING	in TONS				
976	29-Mar	1001	35.0	8"	12"	11.38	-18.50	29.88	34.00	3	30 Tons	BY OTHERS		OK	Auger 10'
977	29-Mar	1002	35.0			11.38	-19.50	30.88	35.00						Auger 10'
978	29-Mar	1003	35.0			11.38	-18.50	29.88	34.00						Auger 10'
979	29-Mar	1004	35.0			11.38	0.00	0.00	0.00						Obst Bkn
980	29-Mar	1004A	35.0			11.38	-4.50	15.88	20.00						Auger 10'
981	29-Mar	1005	35.0			11.38	-3.50	14.88	19.00						Auger 10'
982	29-Mar	1006	35.0			11.38	-4.50	15.88	20.00						Auger 10'
983	29-Mar	886	40.0			10.73	-10.00	20.73	24.00						Spud
984	29-Mar	887	40.0			10.73	-12.00	22.73	26.00						Spud
985	29-Mar	888	40.0			10.73	-10.00	20.73	24.00						Spud
986	29-Mar	889	40.0			10.73	-10.00	20.73	24.00						Spud
987	29-Mar	890	40.0			10.73	-10.00	20.73	24.00						Spud
988	29-Mar	891	40.0			10.73	-9.00	19.73	23.00						Spud
989	29-Mar	892	40.0			10.73	-8.00	18.73	22.00						Spud
990	29-Mar	893	40.0			10.73	-10.00	20.73	24.00						Spud
991	29-Mar	95A	40.0			10.99	-8.50	19.49	23.00						Spud
992	29-Mar	894	40.0			10.73	-9.50	20.23	25.00						Spud
993	29-Mar	895	40.0			10.73	-11.50	22.23	27.00						Spud
994	29-Mar	896	40.0			10.73	-7.50	18.23	23.00						Spud
995	29-Mar	828	35.0			11.01	-7.50	18.51	23.00						Spud
996	29-Mar	829	35.0			11.01	0.00	0.00	0.00						Obst Bkn
997	29-Mar	829A	35.0			11.01	-6.50	17.51	22.00						Spud
998	29-Mar	897	35.0			10.73	-9.50	20.23	25.00						Spud
999	29-Mar	898	40.0			10.73	-7.50	18.23	23.00						Spud
1000	29-Mar	899	40.0	▼	▼	10.73	-8.50	19.23	24.00	▼	▼			▼	Spud

I hereby certify that this is a true record of the driving of piles in this location, and that all piles have been installed in accordance with design and New York City Building Code Requirements, except as noted.

John J. Hsu

License Number.....Date: March 29, 2023
39047,7208m NY Signature of Prof. Engr. Or Arch.