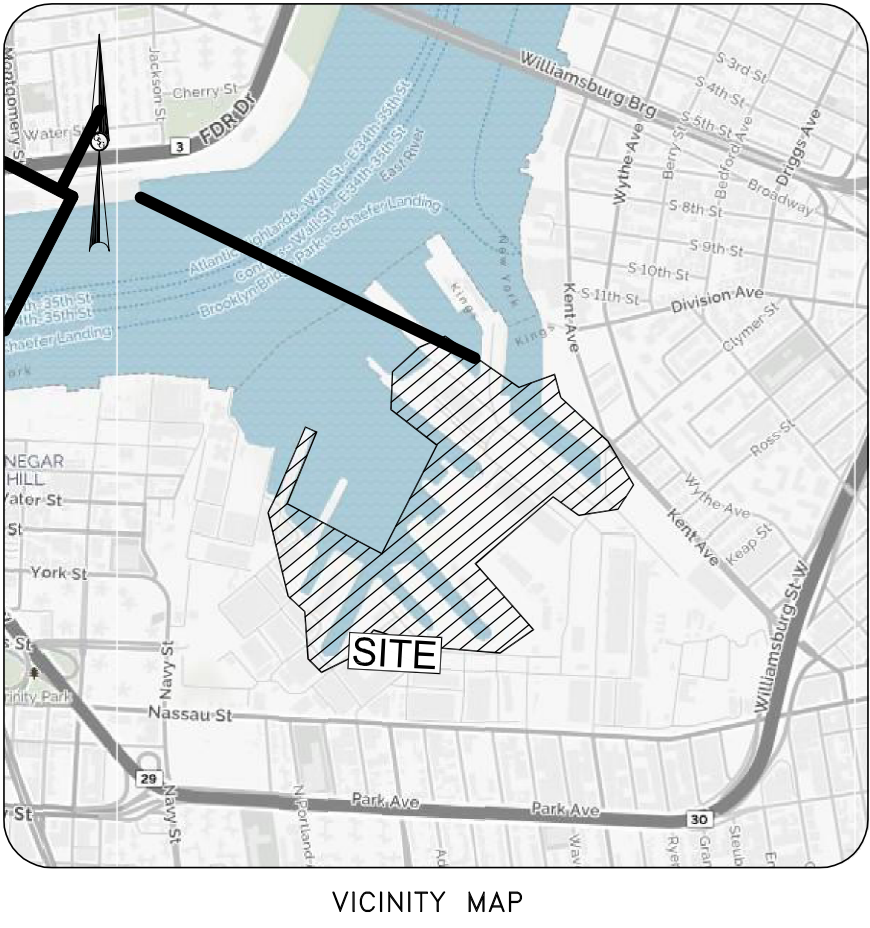
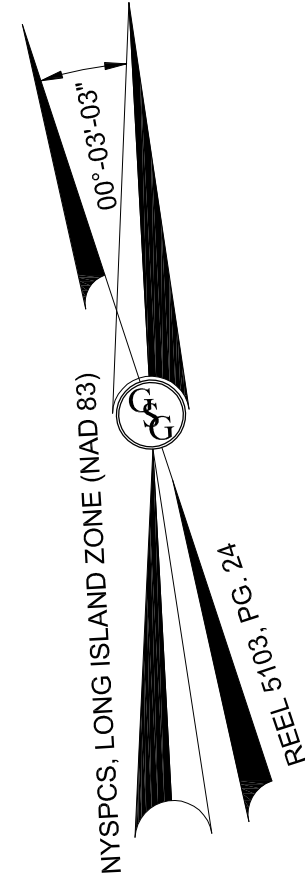
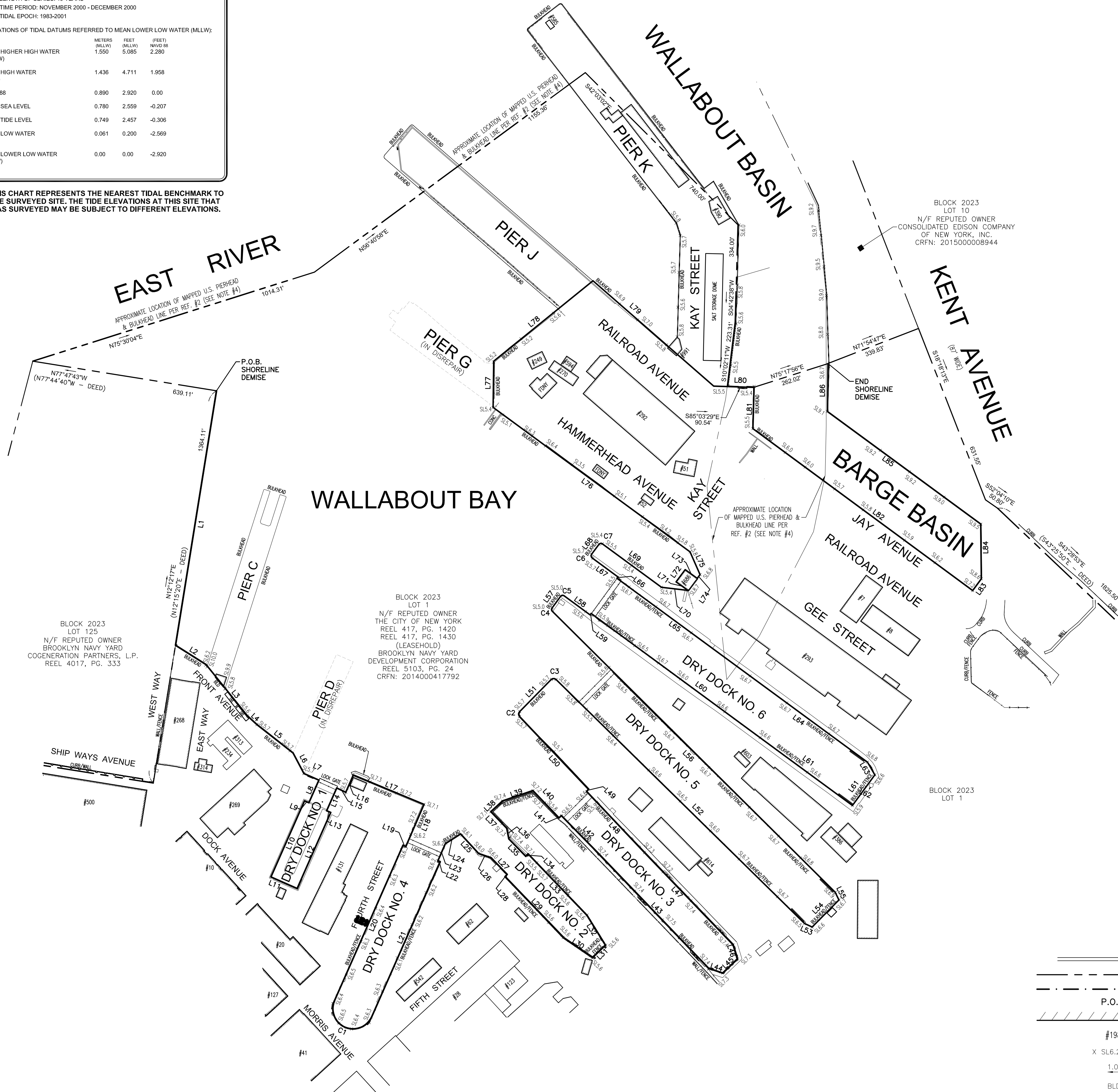


SHORELINE TABLE		
LINE	BEARING	LENGTH
L1	S12°12'17"W	884.75
L2	S54°39'37"E	124.43
L3	S35°51'42"E	226.49
L4	S44°29'12"E	43.60
L5	S48°41'32"E	157.96
L6	S24°50'34"E	79.88
L7	S63°20'29"E	56.12
L8	S26°53'03"W	85.04
L9	N62°59'12"W	16.21
L10	S26°53'03"W	285.57
L11	S63°06'57"E	98.51
L12	N26°53'03"E	285.35
L13	N62°59'12"W	15.34
L14	N26°53'03"E	85.30
L15	S61°34'51"E	34.36
L16	N26°39'03"E	64.80
L17	S64°19'50"E	262.92
L18	S26°27'09"W	157.18
L19	N63°45'13"W	10.26
L20	S26°51'44"W	582.55
L21	N26°51'44"E	582.41
L22	N63°10'34"W	8.22
L23	N26°33'06"E	63.60
L24	N60°27'11"E	62.27
L25	S39°28'25"E	91.47
L26	S68°16'18"E	45.34
L27	S40°56'39"E	79.33
L28	S46°19'42"W	10.10
L29	S40°45'18"E	291.56
L30	S52°51'24"E	118.96
L31	N49°33'43"E	60.57
L32	N28°44'31"W	120.46
L33	N40°54'04"W	292.14
L34	S44°51'46"W	11.27
L35	N41°15'24"W	83.89
L36	N07°45'52"W	36.99
L37	N40°52'39"W	78.83
L38	N50°28'42"E	54.15
L39	N74°13'17"E	110.44
L40	S40°44'36"E	129.38
L41	N49°07'56"E	11.33
L42	S41°21'48"E	186.97
L43	S40°46'48"E	541.63
L44	S68°13'58"E	50.55
L45	N49°11'54"E	70.20
L46	N13°47'19"W	50.50
L47	N40°49'29"W	439.03
L48	N40°23'36"W	289.28
L49	N45°35'19"E	9.98
L50	N40°27'24"W	343.79
L51	N47°36'12"E	153.56
L52	S42°28'51"E	1194.82
L53	S61°49'32"E	29.12
L54	N47°44'25"E	130.94
L55	N23°22'35"W	30.03
L56	N42°09'35"W	1368.97
L57	N39°15'04"E	50.78
L58	S50°38'18"E	110.93
L59	N39°21'37"E	6.01
L60	S50°38'23"E	720.31
L61	S50°39'18"E	393.31
L62	N39°15'30"E	130.28
L63	N27°11'25"W	50.49
L64	N50°39'19"W	500.22
L65	N50°41'07"W	566.92
L66	N39°18'53"E	5.57
L67	N50°35'34"W	109.53
L68	N39°44'52"E	42.56
L69	S50°38'34"E	252.09
L70	S80°10'08"E	91.77
L71	N51°18'07"W	50.63
L72	N39°56'57"E	52.25
L73	S51°18'37"E	51.19
L74	N39°48'57"E	16.06
L75	N20°41'52"W	85.34
L76	N50°42'06"W	838.64
L77	N03°46'13"E	158.79
L78	N54°03'17"E	438.49
L79	S45°52'53"E	550.16
L80	S85°03'29"E	138.84
L81	S04°41'32"W	141.62
L82	S50°35'47"E	937.11
L83	N39°13'43"E	49.87
L84	N02°27'34"E	187.60
L85	N50°40'32"W	652.58
L86	N03°30'12"E	165.34

SHORELINE CURVE TABLE				
CURVE	RADIUS	LENGTH	CHD BRG	CHD DIST
C1	69.58	218.60	180°00'00"	S63°10'34"E 139.16
C2	12.56	19.30	88°03'37"	S03°34'24"W 17.46
C3	12.56	19.71	89°54'56"	N87°26'20"W 17.75
C4	7.80	11.08	81°24'38"	S01°27'16"E 10.17
C5	8.31	12.86	88°36'08"	S83°33'07"W 11.61
C6	9.28	14.63	90°20'27"	S05°25'21"E 13.16
C7	8.05	12.60	89°36'34"	S84°33'09"W 11.35

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE			
STATION ID: 8517847 PUBLICATION DATE: 05/04/2005 NAME: BROOKLYN BRIDGE, EAST RIVER TIDAL DATUMS AT THE BATTERY, NEW YORK HARBOR BASED ON: LENGTH OF SERIES: 19 YEARS TIME PERIOD: NOVEMBER 2000 - DECEMBER 2000 TIDAL EPOCH: 1983-2001			
ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW):			
	METERS (MLLW)	FEET (MLLW)	FEET (NAVD 88)
MEAN HIGHER HIGH WATER (MHHW)	1.550	5.085	2.280
MEAN HIGH WATER (MHW)	1.436	4.711	1.958
NAVD 88	0.890	2.920	0.00
MEAN SEA LEVEL	0.780	2.559	-0.207
MEAN TIDE LEVEL	0.749	2.457	-0.306
MEAN LOW WATER (MLW)	0.061	0.200	-2.569
MEAN LOWER LOW WATER (MLLW)	0.00	0.00	-2.920

NOTE: THIS CHART REPRESENTS THE NEAREST TIDAL BENCHMARK TO THE SURVEYED SITE. THE TIDE ELEVATIONS AT THIS SITE THAT WAS SURVEYED MAY BE SUBJECT TO DIFFERENT ELEVATIONS.



- NOTES:
1. PROPERTY KNOWN AS PART OF LOT 1, IN BLOCK 2023 AS DESIGNATED ON THE NEW YORK CITY DIGITAL TAX MAP, HAVING AN EFFECTIVE DATE OF JANUARY 7, 2015.
 2. ELEVATIONS ARE BASED ON NAVD 88 DATUM.
 3. LOCATIONS WERE LIMITED TO SUBSTANTIAL ON SITE BUILDINGS AND VISIBLE IMPROVEMENTS WITHIN FIVE FEET OF EACH SIDE OF THE PERIMETER OF THE PROPOSED ENVIRONMENTAL EASEMENT. NO OTHER SITE IMPROVEMENTS, INCLUDING UTILITIES, HAVE BEEN SHOWN.
 4. THE MAPPED U.S. PIERHEAD LINE IS SHOWN APPROXIMATE PER REFERENCE NO. 2.
 5. BY GRAPHIC PLOTTING, PROPERTY IS LOCATED IN FLOOD HAZARD ZONE AE (BASE FLOOD ELEVATION 10) WITH PORTIONS PARTIALLY LOCATED IN FLOOD HAZARD ZONE X (AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD) PER NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NOS. 3604970203F & 3604970204F, EFFECTIVE DATE: SEPTEMBER 5, 2007, OBTAINED FROM FEMA NFIL WEB SERVICE ON JULY 27, 2016.
- BE ADVISED THAT FEMA HAS POSTED A PRELIMINARY MAP FOR THIS AREA AND SHOWS THE PROPERTY LOCATED IN FLOOD HAZARD ZONE AE (BASE FLOOD ELEVATIONS BETWEEN 11 AND 13) MAP NOS. 3604970203G & 3604970204G, DATED: DECEMBER 5, 2013.

- REFERENCES:
1. SUBSTATION PLAN, BROOKLYN NAVY YARD DEVELOPMENT CORP., BROOKLYN NAVY YARD, BROOKLYN, NY 11205, PREPARED BY QUAY CONSULTING, LLC, DATED: NOVEMBER 12, 2009.
 2. MAP OF PIERHEAD AND BULKHEAD LINES, EAST RIVER, NEW YORK, BATTERY TO E. 4TH ST., MANHATTAN, ATLANTIC AVE. TO N. 6TH ST., BROOKLYN, APPROVED BY THE SECRETARY OF WAR ON FEBRUARY 25, 1918.
 3. ALTA/ACSM LAND TITLE SURVEY, BROOKLYN NAVY YARD, BETWEEN DRY DOCK NO. 2 & DRY DOCK NO. 3, PART OF LOT 1, BLOCK 2023, SECTION 7, BOROUGH OF BROOKLYN, KINGS COUNTY, CITY & STATE OF NEW YORK, PREPARED BY GALLAS SURVEYING GROUP, DATED: SEPTEMBER 26, 2013, LAST REVISED: JULY 16, 2016.
 4. ALTA/NSPS LAND TITLE SURVEY, BROOKLYN NAVY YARD, PROPOSED LEASE AREA - BUILDING NO. 288, PART OF LOT 1, BLOCK 2023, FRONT AVENUE BETWEEN EAST WAY & WEST WAY, BOROUGH OF BROOKLYN, KINGS COUNTY, CITY & STATE OF NEW YORK, PREPARED BY GALLAS SURVEYING GROUP, DATED: NOVEMBER 9, 2016.
 5. ALTA/NSPS LAND TITLE SURVEY, BROOKLYN NAVY YARD, COVER SHEET - COGEN LEASE PARCELS, PART OF LOT 1, BLOCK 2023, BOROUGH OF BROOKLYN, KINGS COUNTY, CITY & STATE OF NEW YORK, PREPARED BY GALLAS SURVEYING GROUP, DATED: OCTOBER 14, 2016, LAST REVISED: DECEMBER 19, 2016, SHEET NOS. 1 THROUGH 5 OF 5.
 6. ALTA/NSPS LAND TITLE SURVEY, BROOKLYN NAVY YARD, PROPOSED GMD LEASE PARCELS, PART OF LOT 1, BLOCK 2023, BOROUGH OF BROOKLYN, KINGS COUNTY, CITY & STATE OF NEW YORK, PREPARED BY GALLAS SURVEYING GROUP, DATED: MARCH 14, 2018, LAST REVISED: JUNE 12, 2018.
 7. ENVIRONMENTAL EASEMENT SURVEY, BROOKLYN NAVY YARD, PART OF LOT 1, BLOCK 2023, BOROUGH OF BROOKLYN, KINGS COUNTY, CITY AND STATE OF NEW YORK, PREPARED BY GALLAS SURVEYING GROUP, DATED: MARCH 14, 2018, LAST REVISED: JUNE 12, 2018.

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

SHORELINE SURVEY
BROOKLYN NAVY YARD
PART OF LOT 1, BLOCK 2023
BOROUGH OF BROOKLYN
KINGS COUNTY
CITY AND STATE OF NEW YORK

GALLAS
SURVEYING
GROUP

2865 U.S. ROUTE 1
NORTH BRUNSWICK, NJ 08902
TELE: 732-422-6700
FAX: 732-940-8786
www.gallasurvey.com

DATE	SCALE	DRAWN:	CHECKED:
09-03-2021	1"=200'	E.C.R.	D.A.H./G.S.G.
FIELD DATE	FIELD BOOK	PAGE	FIELD CREW
07-20-2021	161	12	M.S.J./J.V.
FILE NO.:	DRAWING NAME/SHEET NO.		
G16214	G16214-SL.DWG 1 OF 1		

NOT VALID UNLESS EMBOSSED WITH RAISED IMPRESSION OR BLUE INK SEAL

GREGORY S. GALLAS
NEW YORK PROFESSIONAL LAND SURVEYOR #50124

DATE

- MAP LEGEND
- PROPERTY LINE
 - SHORELINE DEMISE LINE
 - POINT OF BEGINNING
 - P.O.B.
 - BUILDING FOOTPRINT AT GROUND LEVEL
 - BUILDING NUMBER
 - EXISTING SHORELINE ELEVATION / TOP OF BULKHEAD
 - DENOTES OFFSET OF STRUCTURE AT GROUND LEVEL RELATIVE TO PROPERTY LINE
 - BUILDING

