



PUBLIC NOTICE

US Army Corps
of Engineers
New York District
Jacob K. Javits Federal Building
New York, N.Y. 10278-0090
ATTN: Regulatory Branch

In replying refer to:
Public Notice Number: NAN-2015-00913-EHA
Issue Date: March 3, 2016
Expiration Date: April 4, 2016

To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344).

APPLICANT: New York City Department of Environmental Protection
Attn: Ray Meshkati
59-17 Junction Boulevard
Flushing, New York 11373

ACTIVITY: Install air header piping with diffusers.

WATERWAY: Dutch Kills and Newtown Creek, tributary to the East River

LOCATION: Borough of Queens, Queens County and Borough of Brooklyn, Kings County, New York.

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity. Comments provided will become a part of the public record for this action.

**CENAN-OP-RE
PUBLIC NOTICE NO. NAN-2015-00913-EHA**

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act (Public Law 104-267), requires all Federal agencies to consult with the National Oceanic and Atmospheric Administration Fisheries Service (NOAA/FS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed work, fully described in the attached work description, could cause the disruption of habitat for various lifestages of some EFH-designated species as a result of a temporary increase in turbidity during construction. However, the New York District has made the preliminary determination that the site-specific adverse effects are not likely to be substantial because it is expected that fish populations would avoid the small area of disturbance. Further consultation with NOAA/FS regarding EFH impacts and conservation recommendations being conducted and will be concluded prior to the final decision.

Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended [16 U.S.C. 1456 (c)], for activities under consideration that are located within the coastal zone of a state which has a federally approved coastal zone management program, the applicant has certified in the permit application that the activity complies with, and will be conducted in a manner that is consistent with, the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification. No permit decision will be made until one of these actions occur. For activities within the coastal zone of New York State, the applicant's certification and accompanying information is available from the Consistency Coordinator, New York State Department of State, Division of Coastal Resources and Waterfront Revitalization, Coastal Zone Management Program, One Commerce Plaza, 99 Washington Avenue, Albany, New York 12231, Telephone (518) 474-6000. Comments regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained or requested the following governmental authorization for

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the activity under consideration:

- New York State Department of Environmental Conservation

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact this office at (917) 790-8523 and ask for Naomi Handell.

In order for us to better serve you, please complete our Customer Service Survey located at <http://www.nan.usace.army.mil/Missions/Regulatory/CustomerSurvey.aspx>.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>.



Stephan A. Ryba
Chief, Regulatory Branch

MAR 01 2016

Enclosures

WORK DESCRIPTION

The applicant, New York City Department of Environmental Protection, has requested Department of the Army authorization for installation of an aeration pipeline, in Dutch Kills and Newtown Creek, Borough of Queens, Queens County and Borough of Brooklyn, Kings County, New York.

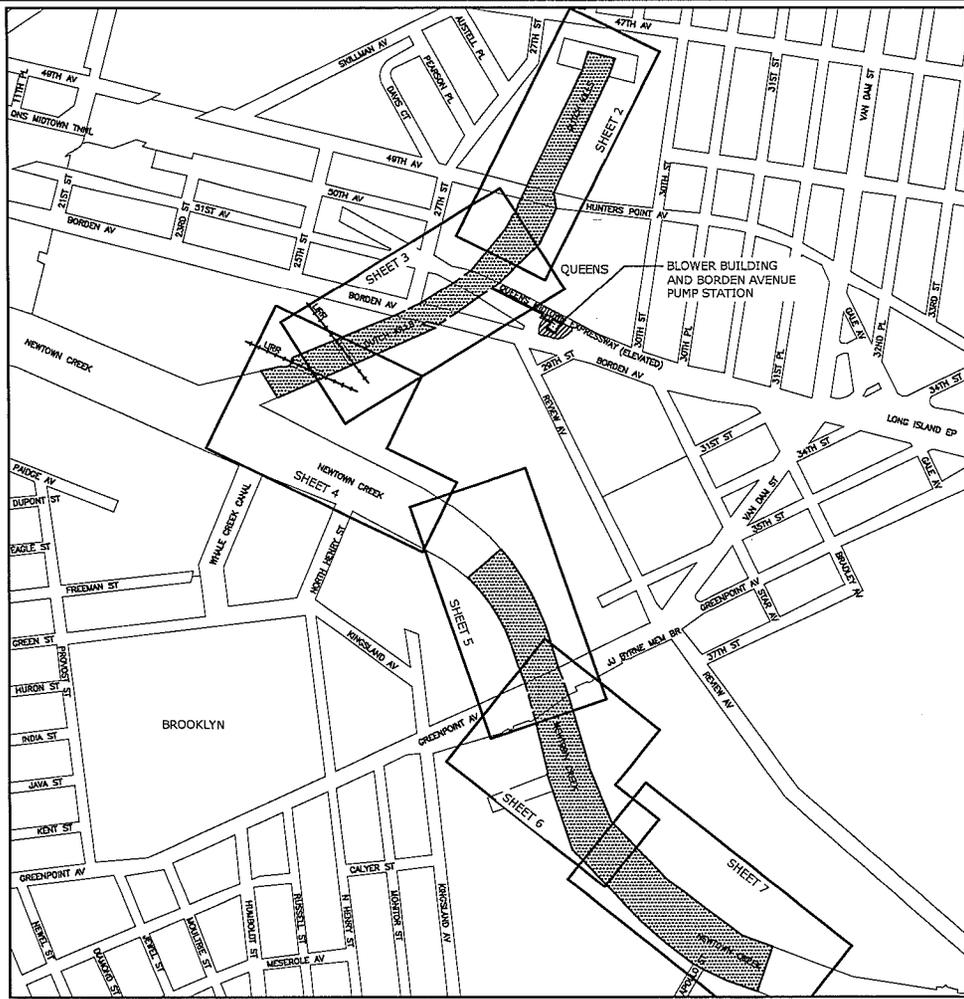
The work would involve:

From an upland blower building, two (2) 16-inch diameter air discharge pipelines would enter Dutch Kills. Approximately 4 cubic yards of rip-rap would be placed over an approximately 70 square foot area waterward of the spring high water line to support the pipelines as they enter the waterway. The Dutch Kills pipeline would split into two (2) 12-inch diameter pipelines, one distributing air for 1,350 feet to the north and one distributing air for 1,350 feet to the southwest. Both pipelines would start off at 16-inch diameter and transition to 4-inch diameter. The 16-inch to 4-inch diameter Newtown Creek pipeline would measure 5,900 feet. Approximately 880 diffusers would be installed on the pipelines. The pipelines would be held in place with pre-cast concrete ballasts, which would rest on the creek bottom.

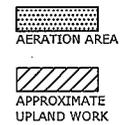
During the peak operating periods from June through August, the blowers would operate 24 hours per day. During the transition periods of May and September, the blowers would operate 12 hours per day. During the non-operating periods of October through April, the blowers would operate periodically for maintenance purposes.

The applicant has stated that they have avoided, minimized, and mitigated for impacts proposed to the maximum extent practicable because the aeration pipeline is proposed to improve water quality and will be installed in a manner that allows removal at any time.

The stated purpose of this project is to increase the levels of dissolved oxygen to levels necessary to meet the New York State Department of Environmental Conservation (NYSDEC) mandated levels, improve water quality, and restore aquatic life in Dutch Kills and Newtown Creek. The proposed project is designed to meet the requirements of a 2004 NYSDEC Consent Order.



GENERAL LOCATION



PURPOSE: TO CONSTRUCT AERATION SYSTEM TO IMPROVE WATER QUALITY

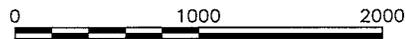
DATUM: MEAN LOWER LOW WATER

MHHW: +4.91
 MHW: +4.57
 NAVD88: +2.67
 MLW: 0.23
 MLLW: 0.00

ADJACENT PROPERTY OWNERS: SEE SECTION 10 OF JPA FOR LIST OF ADJOINING PROPERTY OWNERS

SITE VICINITY

DUTCH KILLS AERATION AND BORDEN AVENUE PUMP STATION UPGRADE



IN: DUTCH KILLS AND NEWTOWN CREEK

AT: LONG ISLAND CITY

COUNTY OF: QUEENS/KINGS

STATE OF: NEW YORK

APPLICATION BY: THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

PREPARED BY: URS

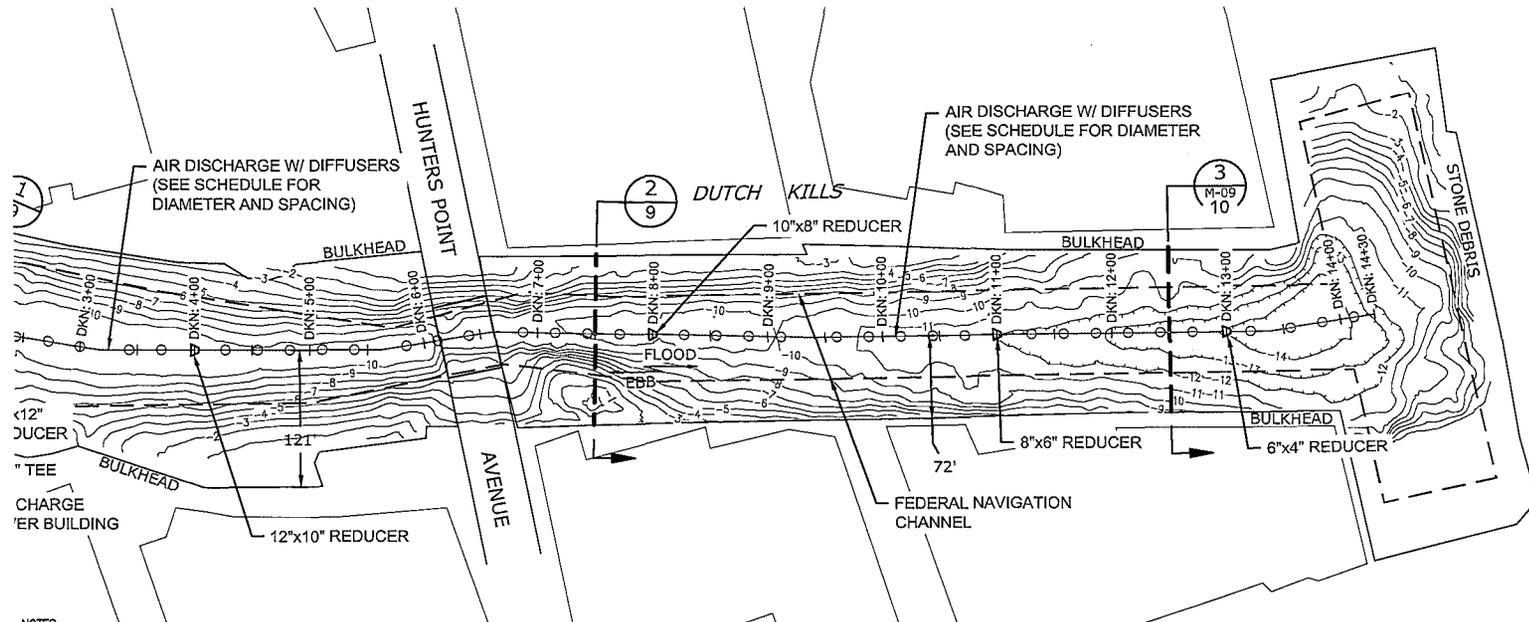
SHEET 1 OF 17

DATE: 1/15/16

NAN-2015-00913-EHA

LEGEND

- PROPOSED AIR DISCHARGE W/DIFFUSER SHALLOWER THAN 16' BELOW MLLW
- PROPOSED AIR DISCHARGE SHALLOWER THAN 16' BELOW MLLW



NOTES:

1. 5,066 LINEAR FEET OF AIR HEADER TO BE PLACED ALONG BOTTOM OF DUTCH KILLS NORTH, DUTCH KILLS SOUTH AND NEWTOWN CREEK NORTH, AS SHOWN.
2. 230 LINEAR FEET OF 4" PIPE, 351 LINEAR FEET OF 6" PIPE, 900 LINEAR FEET OF 8" PIPE, 1,400 LINEAR FEET OF 10" PIPE, 1,300 LINEAR FEET OF 12" PIPE, 500 LINEAR FEET OF 14" PIPE AND 385 LINEAR FEET OF 16" PIPE.
3. AIR HEADER TO BE SUPPORTED / MOUNTED ON PRECAST CONCRETE BALLASTS AS SHOWN ON SHEET 14. 1222 BALLASTS WILL BE INSTALLED.

4. BATHYMETRY IS BASED ON DATA BY CR ENVIRONMENTAL, INC., COLLECTED IN NOVEMBER 2011. ELEVATIONS ARE IN REFERENCE TO MEAN LOWER LOW WATER, WHICH IS 2.67 FEET BELOW NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
5. FEDERAL NAVIGATION CHANNEL TAKEN FROM USACE CONDITION SURVEY DRAWINGS VH-112 & 113, OCTOBER 6-10 2014.
6. THE NYSDEC TIDAL WETLAND BOUNDARY CORRESPONDS TO THE BULKHEAD LINE /MHW LINE OF THE CREEKS. TIDAL DATA WAS DETERMINED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) APPLICATION DATUM VERSION 3.4.

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PLAN VIEW (SHEET 1 OF 6)

DUTCH KILLS AERATION AND BORDEN AVENUE PUMP STATION UPGRADE



IN: DUTCH KILLS AND NEWTOWN CREEK

AT: LONG ISLAND CITY

COUNTY OF: QUEENS / Kings

STATE OF: NEW YORK

APPLICATION BY: THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

PREPARED BY: URS

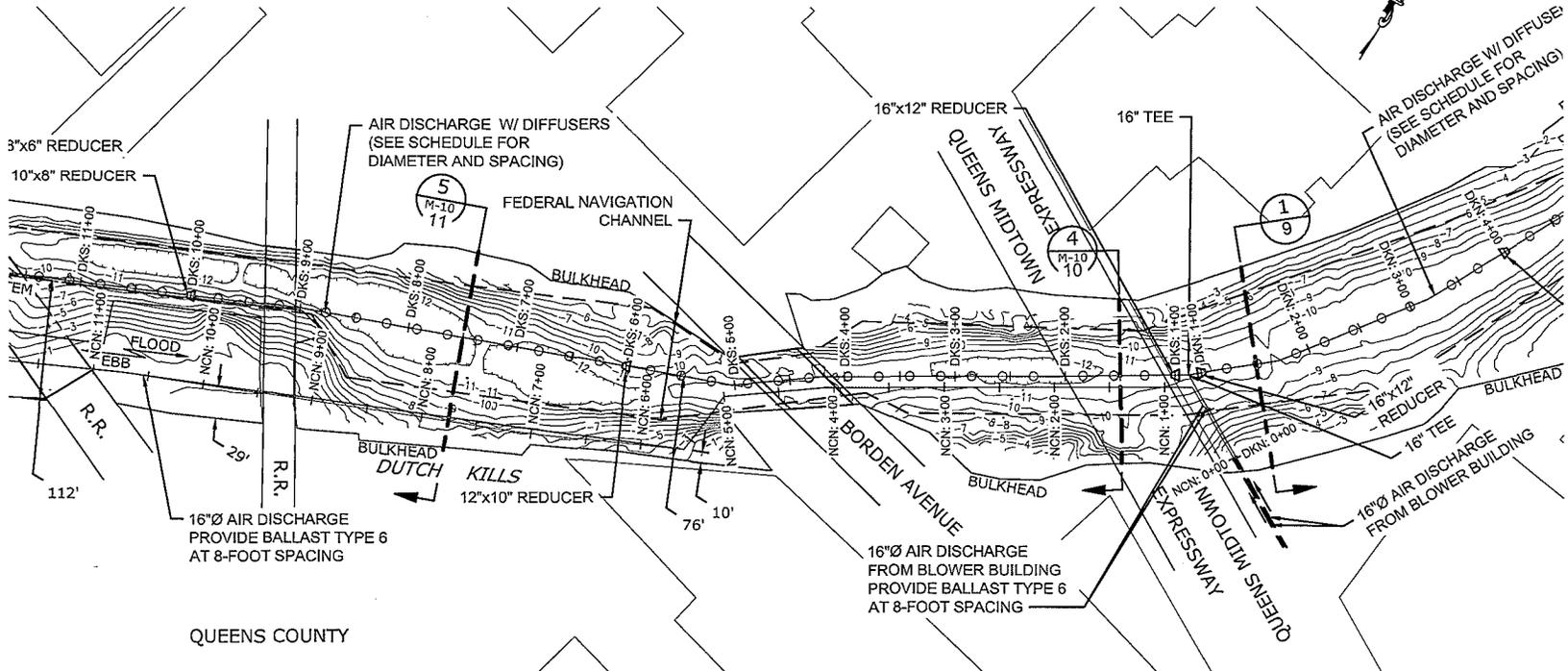
SHEET 2 OF 17

DATE: 1/15/16

NAN-2015-00913-ETIA

LEGEND

- PROPOSED AIR DISCHARGE W/DIFFUSER SHALLOWER THAN 16' BELOW MLLW
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NOTES:

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2. 230 LINEAR FEET OF 4\"/>

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PLAN VIEW (SHEET 2 OF 6)

DUTCH KILLS AERATION AND BORDEN AVENUE PUMP STATION UPGRADE



IN: DUTCH KILLS AND NEWTOWN CREEK

AT: LONG ISLAND CITY

COUNTY OF: QUEENS/KINGS

STATE OF: NEW YORK

APPLICATION BY: THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

PREPARED BY: URS

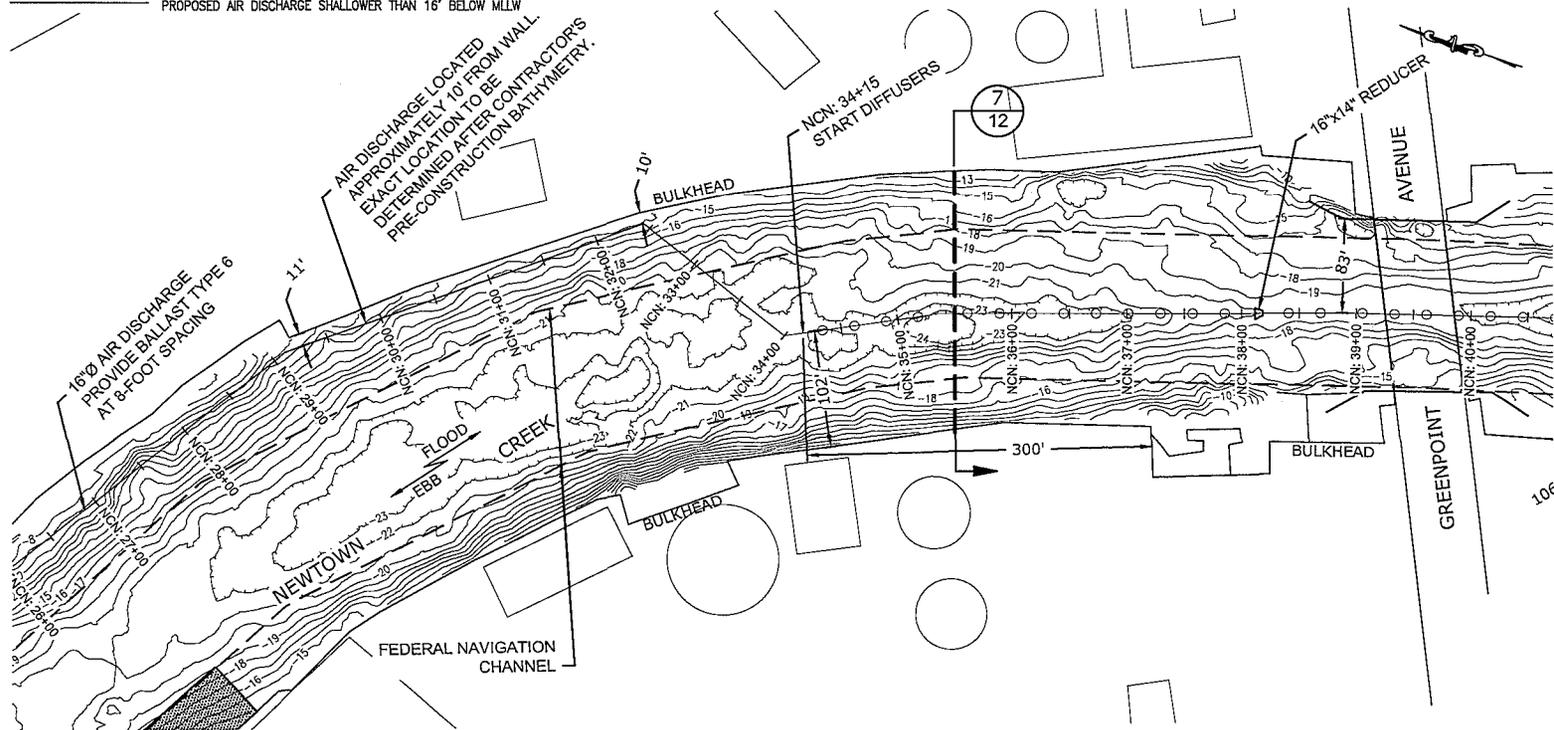
SHEET 3 OF 17

DATE: 1/15/16

NAN-2015-00913-ETM

LEGEND

- PROPOSED AIR DISCHARGE W/DIFFUSER SHALLower THAN 16' BELOW MLLW
- PROPOSED AIR DISCHARGE SHALLower THAN 16' BELOW MLLW



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3. AIR HEADER TO BE SUPPORTED MOUNTED ON PRECAST CONCRETE BALLASTS AS SHOWN ON SHEET 14. 1222 BALLASTS WILL BE INSTALLED. T L
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PLAN VIEW (SHEET 4 OF 6)

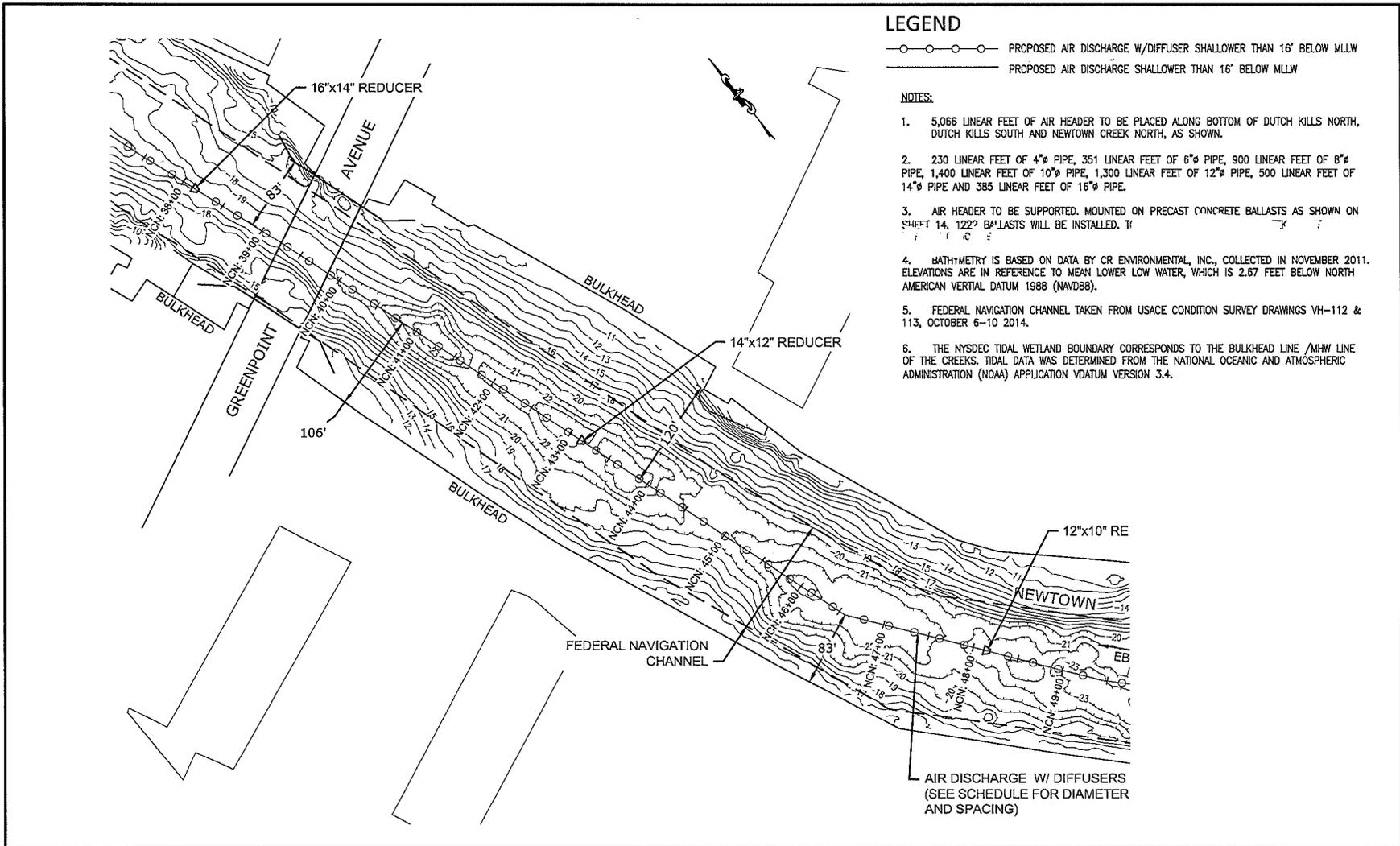
DUTCH KILLS AERATION AND BORDEN AVENUE PUMP STATION UPGRADE

0 160' 320'
 ─────────────────── ─────────────────── ───────────────────
 SCALE: 1"=160'

IN: DUTCH KILLS AND NEWTOWN CREEK
AT: LONG ISLAND CITY
COUNTY OF: QUEENS/Kings
STATE OF: NEW YORK
APPLICATION BY: THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION
PREPARED BY: URS

SHEET 5 OF 17 DATE: 1/15/16

NAN-2015-00913-EHA



LEGEND

- PROPOSED AIR DISCHARGE W/DIFFUSER SHALLOWER THAN 16' BELOW MLLW
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NOTES:

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2. 230 LINEAR FEET OF 4" PIPE, 351 LINEAR FEET OF 6" PIPE, 900 LINEAR FEET OF 8" PIPE, 1,400 LINEAR FEET OF 10" PIPE, 1,300 LINEAR FEET OF 12" PIPE, 500 LINEAR FEET OF 14" PIPE AND 385 LINEAR FEET OF 16" PIPE.
3. AIR HEADER TO BE SUPPORTED. MOUNTED ON PRECAST CONCRETE BALLASTS AS SHOWN ON SHEET 14. 122" BALLASTS WILL BE INSTALLED.
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ADJACENT PROPERTY OWNERS: SEE SECTION 10 OF JPA FOR LIST OF ADJOINING PROPERTY OWNERS

PLAN VIEW (SHEET 5 OF 6)

DUTCH KILLS AERATION AND BORDEN AVENUE PUMP STATION UPGRADE



IN: DUTCH KILLS AND NEWTOWN CREEK
AT: LONG ISLAND CITY
COUNTY OF: QUEENS/KINGS
STATE OF: NEW YORK
APPLICATION BY: THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION
PREPARED BY: URS

NAN-2015-00913-ETHA

DUTCH KILLS NORTH (DKN)						
AIR DISCHARGE DIFFUSER AND BALLAST SCHEDULE						
STATION	PIPE DIAMETER (IN)	DIFFUSER SPACING (FT)	DIFFUSER OPENING INITIAL SETTING	BALLAST TYPE (SEE DWG M-12)	BALLAST SPACING (FT)	NUMBER OF BALLASTS
0+00 TO 1+00	16	-	-	10	6	17
1+00 TO 2+00	12	8	4	8	8	13
2+00 TO 3+00	12	8	4	8	8	13
3+00 TO 4+00	12	8	4	8	8	13
4+00 TO 5+00	10	8	4	6	8	13
5+00 TO 6+00	10	8	4	6	8	13
6+00 TO 7+00	10	8	4	6	8	13
7+00 TO 8+00	10	8	4	6	8	13
8+00 TO 9+00	8	8	4	4	8	13
9+00 TO 10+00	8	6	4	3	6	17
10+00 TO 11+00	8	4	4	4	8	13
11+00 TO 12+00	6	4	8	2	8	13
12+00 TO 13+00	6	4	12	2	8	13
13+00 TO 14+00	4	4	12	1	8	13
14+00 TO 14+30	4	6	4	1	6	5

DUTCH KILLS SOUTH (DKS)						
AIR DISCHARGE DIFFUSER AND BALLAST SCHEDULE						
STATION	PIPE DIAMETER (IN)	DIFFUSER SPACING (FT)	DIFFUSER OPENING INITIAL SETTING	BALLAST TYPE (SEE DWG M-12)	BALLAST SPACING (FT)	NUMBER OF BALLASTS
0+00 TO 1+00	SEE DUTCH KILLS NORTH					
1+00 TO 2+00	12	8	4	8	8	13
2+00 TO 3+00	12	8	4	8	8	13
3+00 TO 4+00	12	8	4	8	8	13
4+00 TO 5+00	12	8	4	8	8	13
5+00 TO 6+00	12	6	4	7	6	17
6+00 TO 7+00	10	6	4	5	6	17
7+00 TO 8+00	10	6	4	5	6	17
8+00 TO 9+00	10	6	4	5	6	17
9+00 TO 10+00	10	4	4	6	8	13
10+00 TO 11+00	8	4	4	4	8	13
11+00 TO 12+00	8	8	4	4	8	13
12+00 TO 13+00	8	6	4	3	6	17
13+00 TO 14+00	6	4	8	2	8	13
14+00 TO 14+51	6	4	8	2	8	7

NEWTOWN CREEK NORTH (NCN)						
AIR DISCHARGE DIFFUSER AND BALLAST SCHEDULE						
STATION	PIPE DIAMETER (IN)	DIFFUSER SPACING (FT)	DIFFUSER OPENING INITIAL SETTING	BALLAST TYPE (SEE DWG M-12)	BALLAST SPACING (FT)	NUMBER OF BALLASTS
00+00 TO 34+15	16	-	-	10	6	570
34+15 TO 35+15	16	4	12	11	4	25
35+15 TO 36+15	16	4	12	11	4	25
36+15 TO 37+15	16	6	4	10	6	17
37+15 TO 38+15	16	8	4	11	4	25
38+15 TO 39+15	14	8	4	9	4	25
39+15 TO 40+15	14	8	4	9	4	25
40+15 TO 41+15	14	4	12	9	4	25
41+15 TO 42+15	14	4	4	9	4	25
42+15 TO 43+15	14	4	12	9	4	25
43+15 TO 44+15	12	6	4	7	6	17
44+15 TO 45+15	12	8	4	8	8	13
45+15 TO 46+15	12	4	12	8	8	13
46+15 TO 47+15	12	4	12	8	8	13
47+15 TO 48+15	12	8	8	8	8	13
48+15 TO 49+15	10	4	12	6	8	13
49+15 TO 50+15	10	4	12	6	8	13
50+15 TO 51+15	10	4	12	6	8	13
51+15 TO 52+15	10	8	4	6	8	13
52+15 TO 53+15	10	6	4	5	6	17
53+15 TO 54+15	10	8	8	6	8	13
54+15 TO 55+15	8	8	4	4	8	13
55+15 TO 56+15	8	8	4	4	8	13
56+15 TO 57+15	8	8	4	4	8	13
57+15 TO 58+15	6	8	4	2	8	13
58+15 TO 59+15	4	8	4	1	8	13

BALLAST TYPE	NUMBER OF BALLASTS	VOLUME (CU. FT.)	TOTAL VOLUME BY TYPE (CU. FT.)
1	31	2.22	68.89
2	59	3.33	196.67
3	34	4.17	141.67
4	91	5.56	505.56
5	98	6.11	415.56
6	130	8.33	1083.33
7	34	11.56	392.89
8	143	15.11	2160.89
9	125	10.00	1250.00
10	604	18.00	10872.00
11	75	13.33	1000.00
TOTAL =	1394	TOTAL =	18087.44

PIPE SIZE DIA (IN)	PIPE AREA (SQ. FT.)	PIPE LENGTH (LFT)			Volume of Displacement (CU. FT.)
		DKN	DKS	NCN	
4	0.10	130	-	100	23.53
6	0.22	200	151	100	97.61
8	0.34	300	300	300	304.34
10	0.53	400	400	600	739.72
12	0.84	300	500	500	1090.49
14	1.07	-	-	500	532.70
16	1.35	100	-	3815	5295.53
Totals =		1430	1351	5915	
Grand Totals =		8696			-8084

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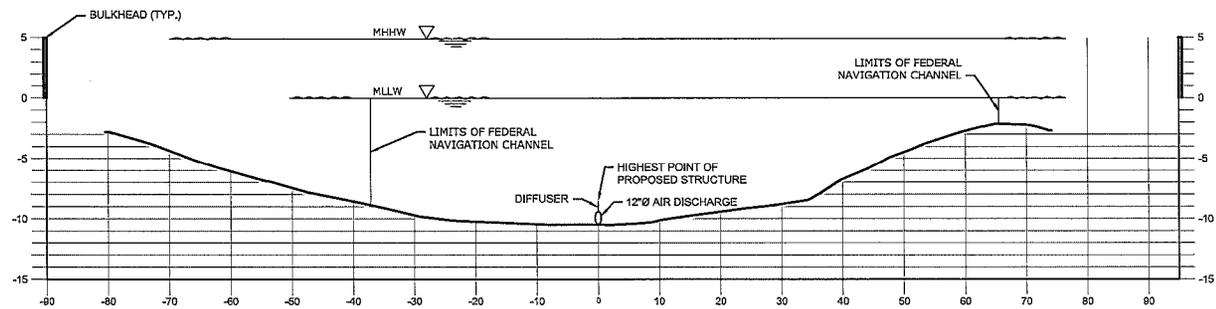
ADJACENT PROPERTY OWNERS: SEE SECTION 10 OF JPA FOR LIST OF ADJOINING PROPERTY OWNERS

SCHEDULES

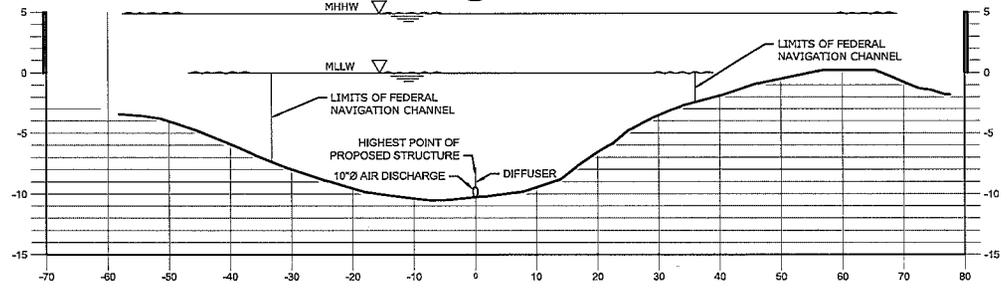
DUTCH KILLS AERATION AND BORDEN AVENUE PUMP STATION UPGRADE

IN: DUTCH KILLS AND NEWTOWN CREEK
 AT: LONG ISLAND CITY
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 STATE OF: NEW YORK

APPLICATION BY: THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION
 PREPARED BY: URS



CROSS SECTION 1 AT STA DKN 1+50



CROSS SECTION 2 AT STA DKN 7+50

PURPOSE: TO CONSTRUCT AERATION SYSTEM TO IMPROVE WATER QUALITY

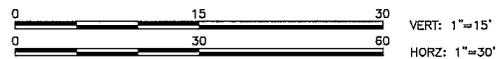
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ADJACENT PROPERTY OWNERS: SEE SECTION 10 OF JPA FOR LIST OF ADJOINING PROPERTY OWNERS

SECTIONS (SHEET 1 OF 4)

DUTCH KILLS AERATION AND BORDEN AVENUE PUMP STATION UPGRADE



IN: DUTCH KILLS AND NEWTOWN CREEK

AT: LONG ISLAND CITY

COUNTY OF: QUEENS/Kings

STATE OF: NEW YORK

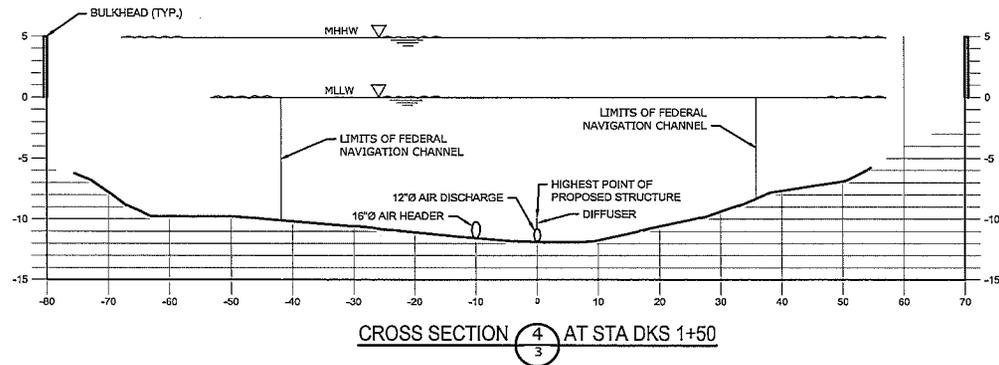
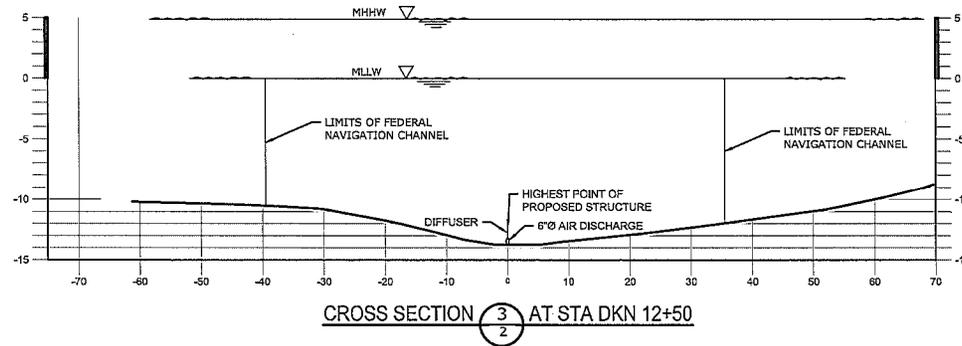
APPLICATION BY: THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

PREPARED BY: URS

SHEET 9 OF 17

DATE: 1/15/16

NAN-2015-00913-eHA



PURPOSE: TO CONSTRUCT AERATION SYSTEM TO IMPROVE WATER QUALITY

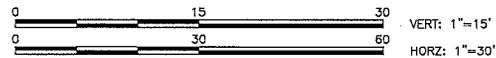
DATUM: MEAN LOWER LOW WATER

MHHW: +4.91
 MHW: +4.57
 NAVD88: +2.67
 MLW: 0.23
 MLLW: 0.00

ADJACENT PROPERTY OWNERS: SEE SECTION 10 OF JPA FOR LIST OF ADJOINING PROPERTY OWNERS

SECTIONS (SHEET 2 OF 4)

DUTCH KILLS AERATION AND BORDEN AVENUE PUMP STATION UPGRADE



IN: DUTCH KILLS AND NEWTOWN CREEK

AT: LONG ISLAND CITY

COUNTY OF: QUEENS/KINGS

STATE OF: NEW YORK

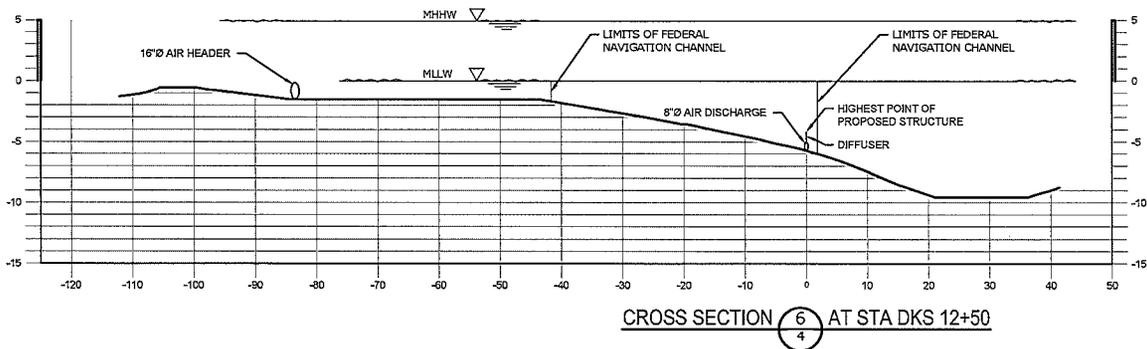
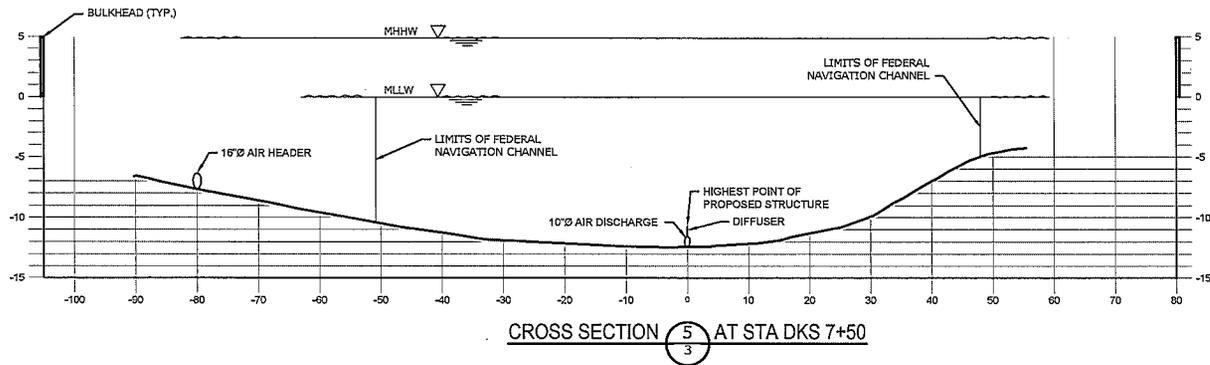
APPLICATION BY: THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

PREPARED BY: URS

SHEET 10 OF 17

DATE: 1/15/16

NAN-2015-00913-EHA



PURPOSE: TO CONSTRUCT AERATION SYSTEM TO IMPROVE WATER QUALITY

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SECTIONS (SHEET 3 OF 4)

DUTCH KILLS AERATION AND BORDEN AVENUE PUMP STATION UPGRADE



IN: DUTCH KILLS AND NEWTOWN CREEK

AT: LONG ISLAND CITY

COUNTY OF: QUEENS/KINGS

STATE OF: NEW YORK

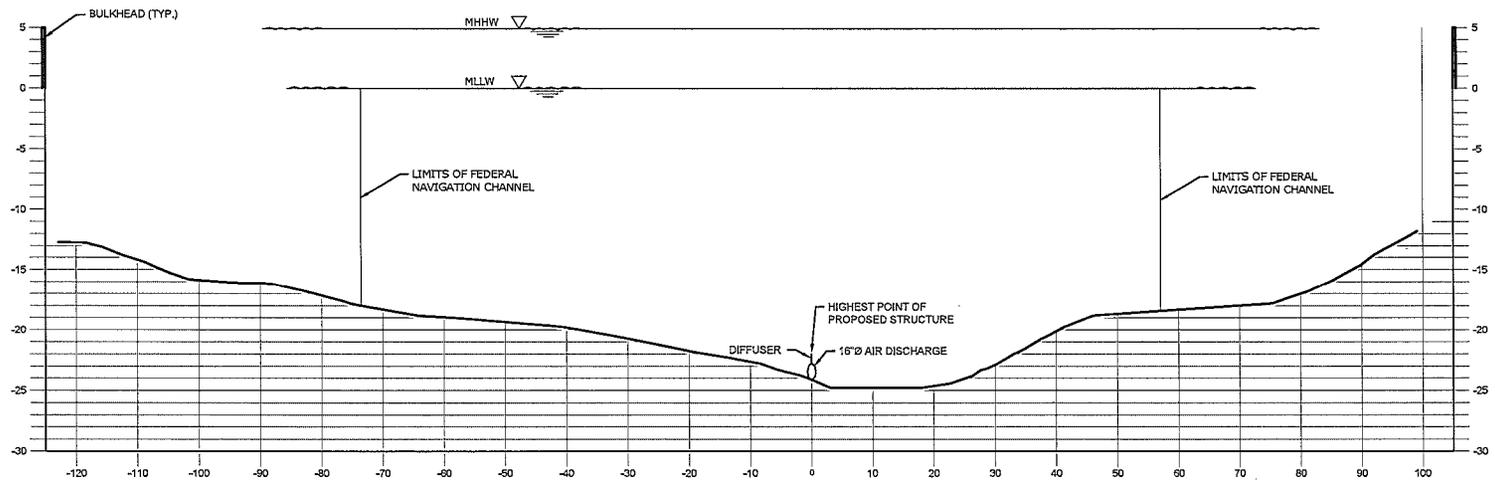
APPLICATION BY: THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

PREPARED BY: URS

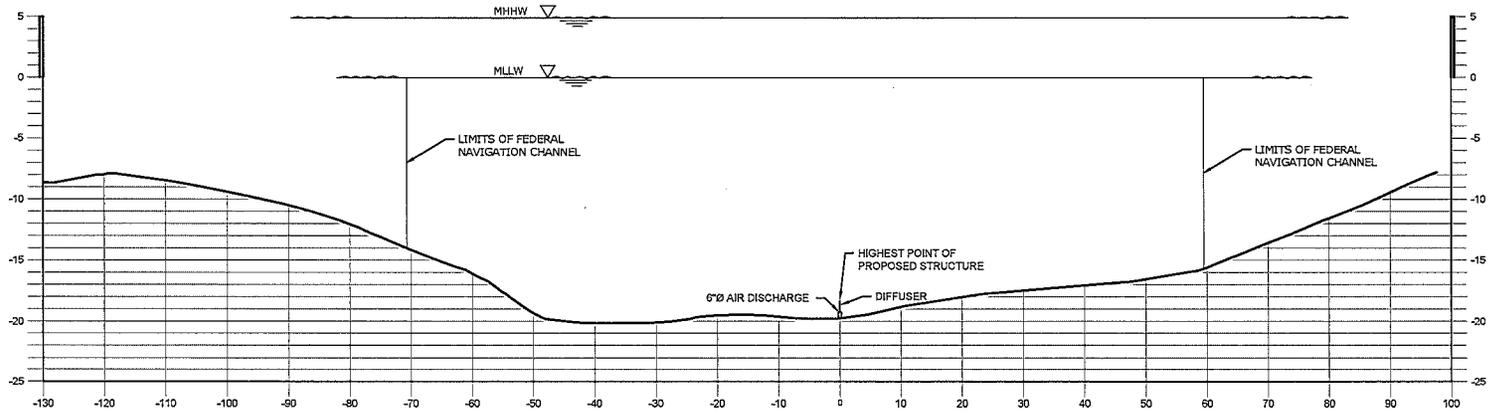
SHEET 11 OF 17

DATE: 1/15/16

NAN-2015-00913-EHA



CROSS SECTION 7 AT STA NCN 35+50



CROSS SECTION 8 AT STA NCN 57+50

PURPOSE: TO CONSTRUCT AERATION SYSTEM TO IMPROVE WATER QUALITY

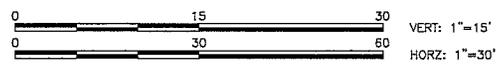
DATUM: MEAN LOWER LOW WATER

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ADJACENT PROPERTY OWNERS: SEE SECTION 10 OF JPA FOR LIST OF ADJOINING PROPERTY OWNERS

SECTIONS (SHEET 4 OF 4)

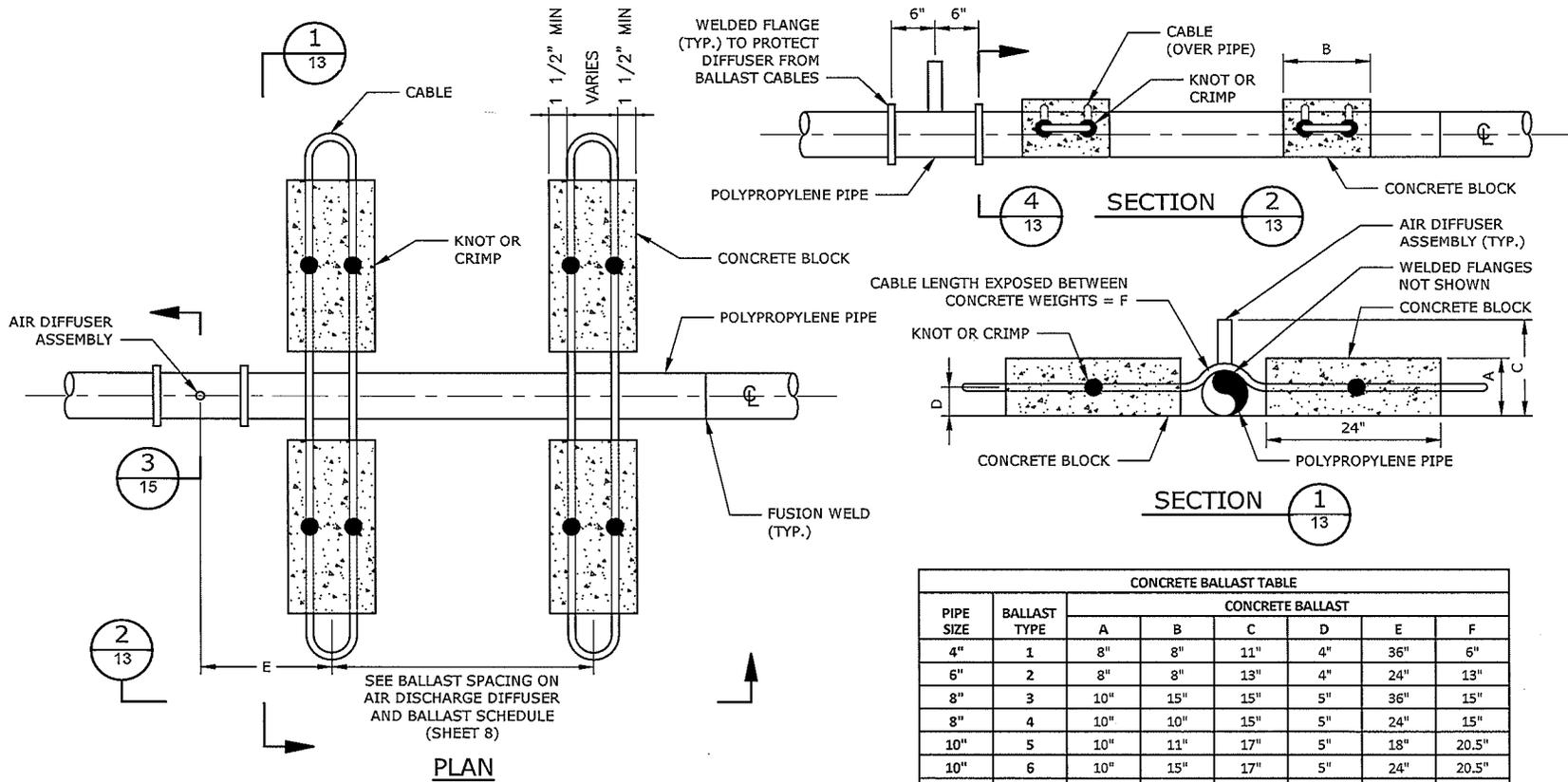
DUTCH KILLS AERATION AND BORDEN AVENUE PUMP STATION UPGRADE



IN: DUTCH KILLS AND NEWTOWN CREEK
 AT: LONG ISLAND CITY
 COUNTY OF: QUEENS / *Kings*
 STATE OF: NEW YORK

APPLICATION BY: THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION
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NAN-2015-00913-EHA



SEE BALLAST SPACING ON AIR DISCHARGE DIFFUSER AND BALLAST SCHEDULE (SHEET 8)

PLAN

CONCRETE BALLAST	1 13
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CONCRETE BALLAST TABLE							
PIPE SIZE	BALLAST TYPE	CONCRETE BALLAST					
		A	B	C	D	E	F
4"	1	8"	8"	11"	4"	36"	6"
6"	2	8"	8"	13"	4"	24"	13"
8"	3	10"	15"	15"	5"	36"	15"
8"	4	10"	10"	15"	5"	24"	15"
10"	5	10"	11"	17"	5"	18"	20.5"
10"	6	10"	15"	17"	5"	24"	20.5"
12"	7	16"	16"	19"	8"	18"	20.5"
12"	8	16"	17"	19"	8"	24"	20.5"
14"	9	18"	20"	21"	9"	24"	25"
16"	10	18"	18"	23"	9"	18"	27.5"
16"	11	20"	24"	23"	10"	24"	25.5"

PURPOSE: TO CONSTRUCT AERATION SYSTEM TO IMPROVE WATER QUALITY

DATUM: MEAN LOWER LOW WATER

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ADJACENT PROPERTY OWNERS: SEE SECTION 10 OF JPA FOR LIST OF ADJOINING PROPERTY OWNERS

DETAILS (SHEET 2 OF 3)

DUTCH KILLS AERATION AND BORDEN AVENUE PUMP STATION UPGRADE

NOT TO SCALE

IN: DUTCH KILLS AND NEWTOWN CREEK

AT: LONG ISLAND CITY

COUNTY OF: QUEENS / Kings

STATE OF: NEW YORK

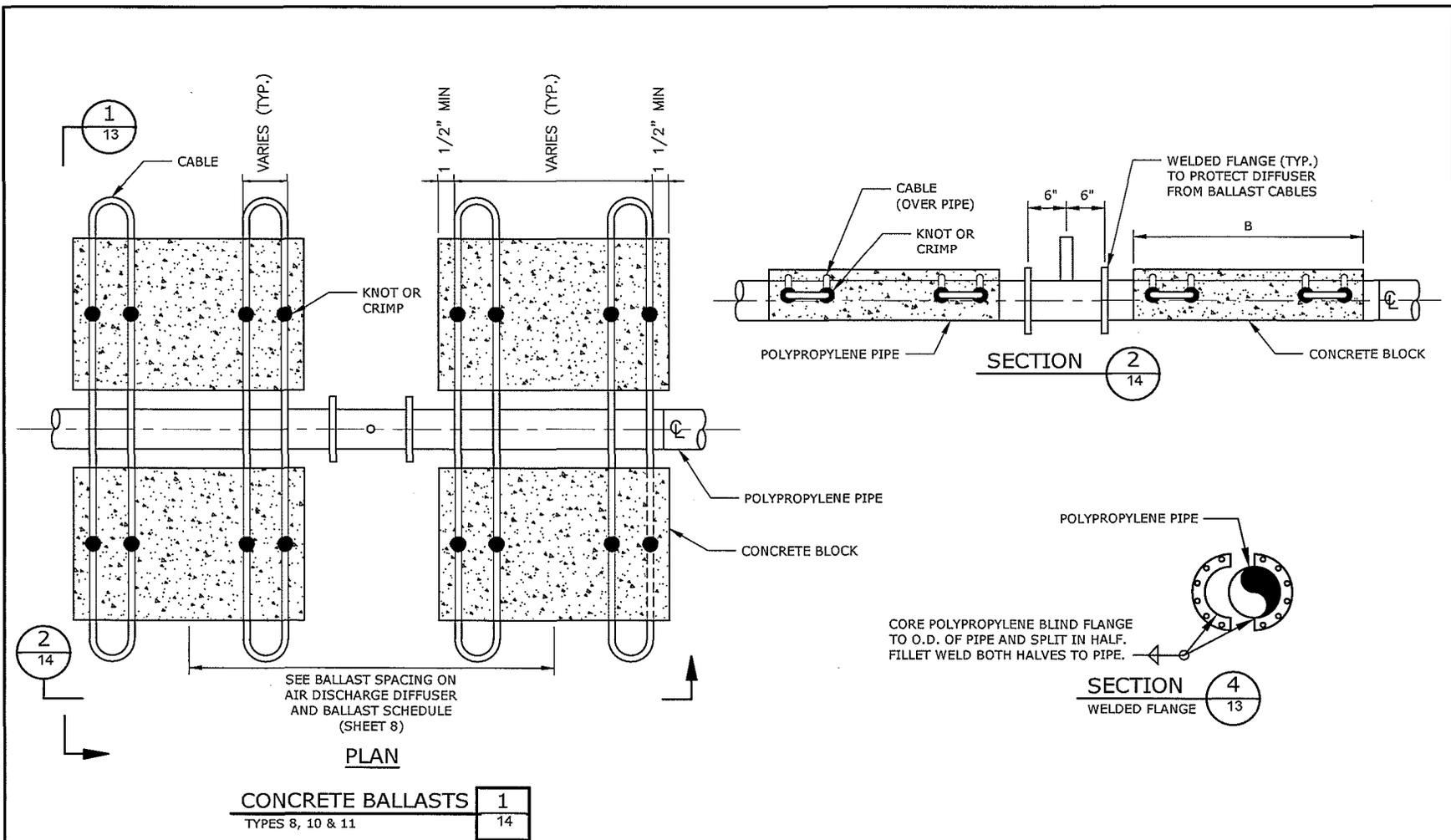
APPLICATION BY: THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

PREPARED BY: URS

SHEET 13 OF 17

DATE: 1/15/16

NAN-2015-00913-EHA



PURPOSE: TO CONSTRUCT AERATION SYSTEM TO IMPROVE WATER QUALITY

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DETAILS (SHEET 2 OF 3)

DUTCH KILLS AERATION AND BORDEN AVENUE PUMP STATION UPGRADE

NOT TO SCALE

IN: DUTCH KILLS AND NEWTOWN CREEK

AT: LONG ISLAND CITY

COUNTY OF: QUEENS / Kings

STATE OF: NEW YORK

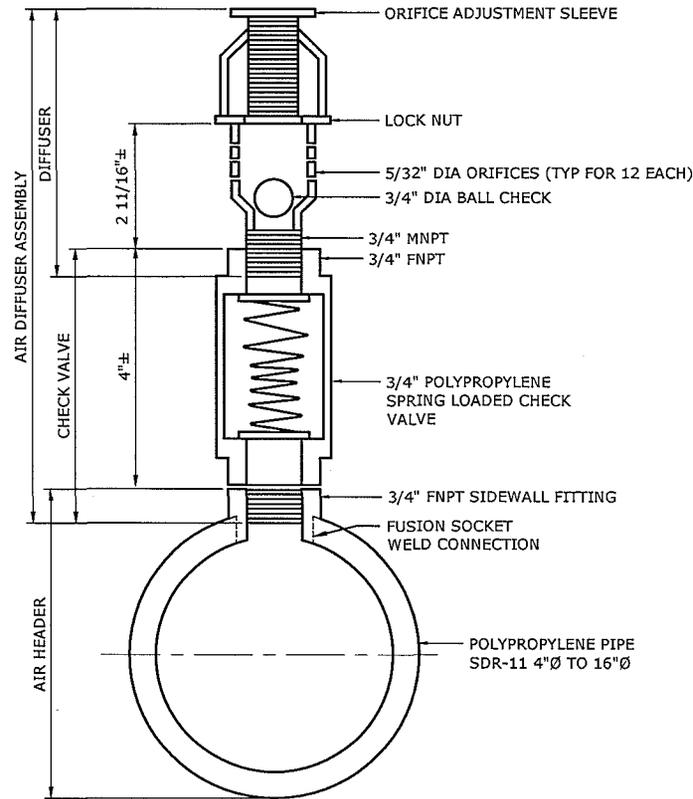
APPLICATION BY: THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

PREPARED BY: URS

SHEET 14 OF 17

DATE: 1/15/16

NAN-2015-00913-EHA



SECTION 3
13

AIR DIFFUSER ASSEMBLY
NOT TO SCALE

1
15

PURPOSE: TO CONSTRUCT AERATION SYSTEM TO IMPROVE WATER QUALITY

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DETAILS (SHEET 3 OF 3)

DUTCH KILLS AERATION AND BORDEN AVENUE PUMP STATION UPGRADE

NOT TO SCALE

IN: DUTCH KILLS AND NEWTOWN CREEK

AT: LONG ISLAND CITY

COUNTY OF: QUEENS/Kings

STATE OF: NEW YORK

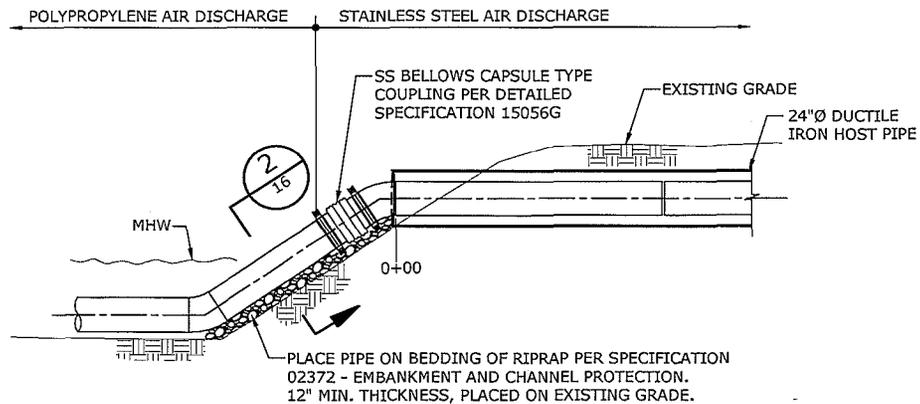
APPLICATION BY: THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

PREPARED BY: URS

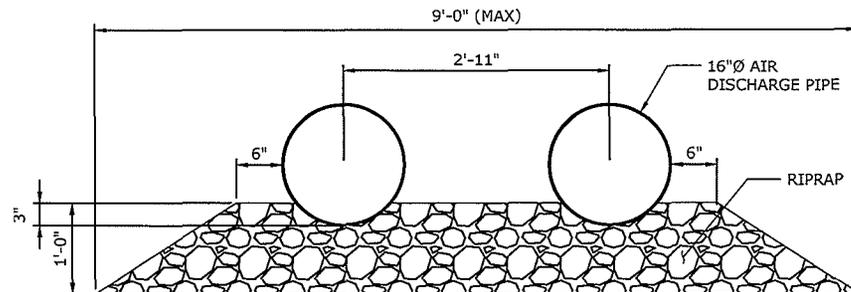
SHEET 15 OF 17

DATE: 1/15/16

NAN-2015-00913-ETA



AIR DISCHARGE AT SHORELINE DETAIL 1
16



AIR DISCHARGE AT SHORELINE SECTION 2
16

NOTE:
APPROXIMATELY 4 CUBIC YARDS
OF RIPRAP

PURPOSE: TO CONSTRUCT AERATION SYSTEM TO IMPROVE WATER QUALITY

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DETAILS (SHEET 1 OF 3)
DUTCH KILLS AERATION AND BORDEN AVENUE PUMP STATION UPGRADE

NOT TO SCALE

IN: DUTCH KILLS AND NEWTOWN CREEK

AT: LONG ISLAND CITY

COUNTY OF: QUEENS, *King's*

STATE OF: NEW YORK

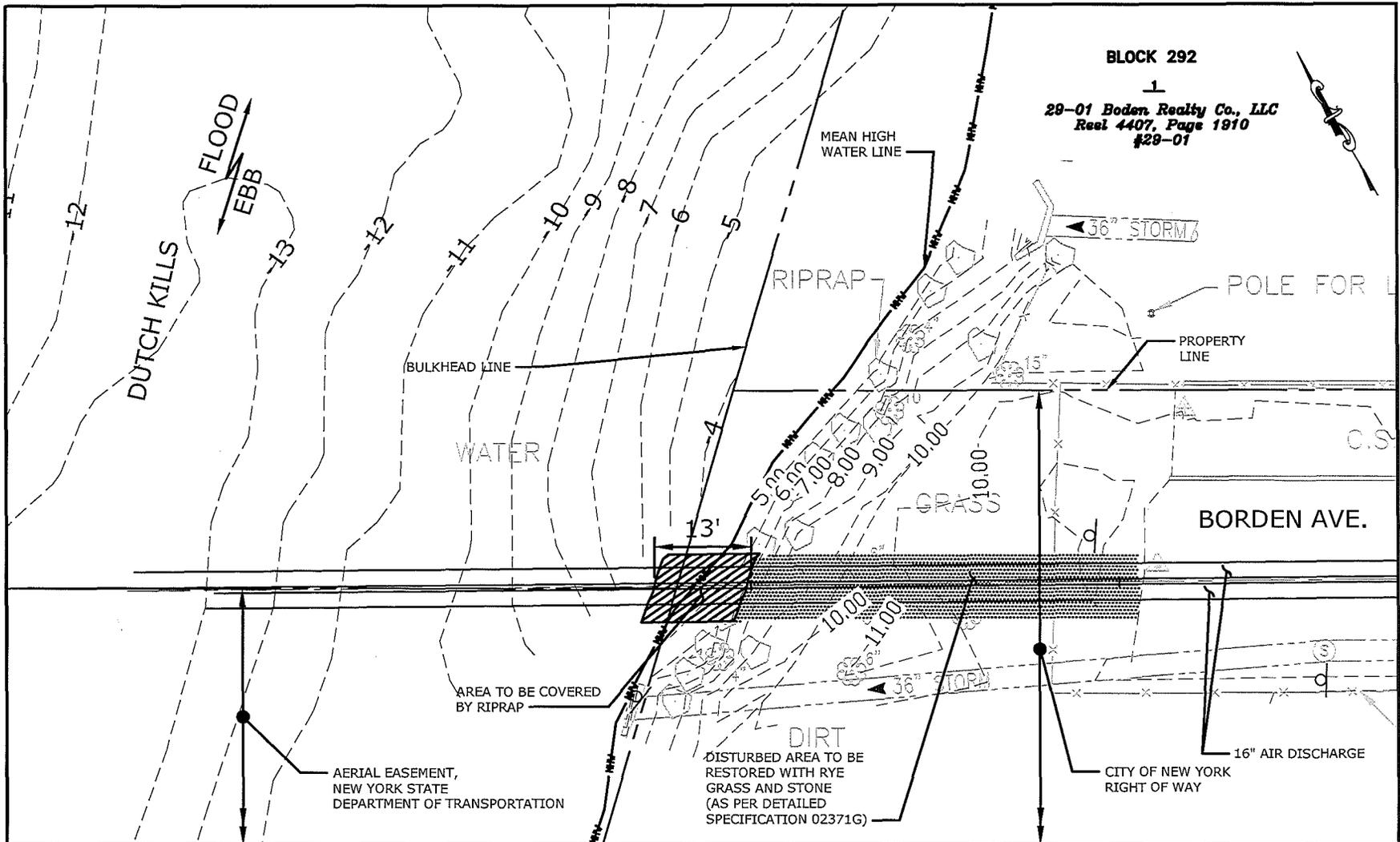
APPLICATION BY: THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

PREPARED BY: URS

SHEET 16 OF 17

DATE: 1/15/16

NAN-2015-00913-EHA



BLOCK 292
 1
 29-01 Boden Realty Co., LLC
 Reel 4407, Page 1910
 #29-01

PURPOSE: TO CONSTRUCT AERATION SYSTEM TO IMPROVE WATER QUALITY

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NAN-2015-00913-ETHA