

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-2011-00680-EHA
Issue Date: May 3, 2012
Expiration Date: June 4, 2012

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
96-05 Horace Harding Expressway
Flushing, New York 11368

ACTIVITY: Install air header piping with diffusers and maintain existing air header piping with diffusers.

WATERWAY: English Kills, tributary to Newtown Creek

LOCATION: 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.

PLEASE USE THE 18-CHARACTER FILE NUMBER ON ALL CORRESPONDENCE

CENAN-OP-RE
PUBLIC NOTICE NO. NAN-2011-00680-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. Additionally, the purpose of the proposed work is to improve water quality and it may have positive impacts on EFH and EFH-designated species. Further consultation with NOAA/FS regarding EFH impacts and conservation recommendations is 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 occurs. 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 the activity under consideration:

- New York State Department of Environmental Conservation

In order for us to better serve you, please complete our Customer Service Survey located at: <http://www.nan.usace.army.mil/business/buslinks/regulat/index.php?survey>.

WORK DESCRIPTION

The applicant, New York City Department of Environmental Protection, has requested Department of the Army authorization to install an aeration pipeline and maintain an existing aeration pipeline in English Kills, tributary to Newtown Creek, in the Borough of Brooklyn, Kings County, New York.

The work would involve:

Install 2,985 linear feet of 6 inch diameter air header piping with diffusers along the bottom of Lower English Kills. The piping would be held in place via ballast plates. The proposed aeration system would operate from March through September of each year. During the peak operation period of June through August, the proposed system would operate 24 hours per day. See Sheet 5 of 9.

Maintain 2,500 linear feet of 6 inch diameter existing air header piping with diffusers along the bottom of Upper English Kills. This system was installed in December of 2008 and has been active since installation. The aeration system in Upper English Kills was authorized by Nationwide General Permit as a pilot project. Based on the results of the pilot project, the applicant wants to leave the aeration system in place and continue its use. See Sheet 8 of 9.

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 English Kills. The proposed project is designed to meet the requirements of a 2004 NYSDEC Consent Order.

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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.

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



for Richard L. Tomer
Chief, Regulatory Branch

Enclosures

CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION



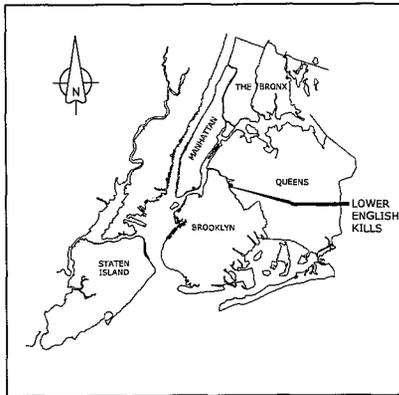
CAPITAL PROJECT WP-169
NEWTOWN CREEK WATER QUALITY

FACILITY DESIGN - PHASE 2
ENGLISH KILLS ENHANCED AERATION ZONE 2

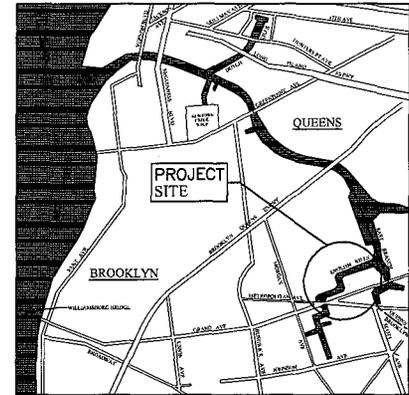
CONTRACT CSO-NC-2

BOROUGH OF BROOKLYN, NEW YORK
JANUARY 2011

CONFORMED OCTOBER 2011

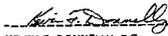


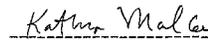
KEY PLAN



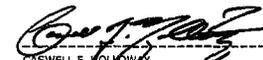
LOCATION PLAN

NAN - 2011 - 00680 - EHA 1/9


----- P.E.
KEVIN F. DONNELLY, P.E.
ASSISTANT COMMISSIONER OF WASTEWATER CAPITAL PROGRAM
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION



KATHRYN MALLON
DEPUTY COMMISSIONER
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION



CASWELL F. HOLLOWAY
COMMISSIONER
DEPARTMENT OF ENVIRONMENTAL PROTECTION



PREPARED BY:
URS

Title: R: 43 A.M. Date: 3/7/2012 Orig: A0000000 Drawing File: H:\00000000-English\184\184\USACE-F2001\GC-01.dwg

LEGEND				ABBREVIATIONS	
<p>MANHOLES</p> <p>STORM OR SANITARY SEWER </p> <p>VALVE BOX (INCL. VALVES)</p> <p>ELECTRICAL SERVICE BOX </p> <p>TREES</p> <p>TREE </p> <p>FENCES & WALLS (WITH TYPE AND HEIGHT)</p> <p>CHAIN LINK FENCE 6' HIGH CLF (U O N)</p> <p>PICKET FENCE </p> <p>GRANITE RETAINING WALL </p> <p>STAINLESS STEEL RAILING </p> <p>WROUGHT IRON FENCE </p>	<p>EXISTING</p> <p>CONTOUR LINE </p> <p>LIGHT POLE </p> <p>PROPERTY LINE </p> <p>BURIED PIPING </p> <p>STRUCTURE </p>	<p>MISCELLANEOUS</p> <p>CONTOUR LINE </p> <p>LIGHT POLE </p> <p>PROPERTY LINE </p> <p>BURIED PIPING </p> <p>STRUCTURE </p> <p>WORK LIMITS </p>	<p>EXISTING</p> <p></p> <p></p> <p></p> <p></p> <p style="text-align: center;"> EXISTING PROPOSED CONNECT PROPOSED TO EXISTING </p>	<p>AFF ----- ABOVE FINISHED FLOOR</p> <p>ARCH ----- ARCHITECTURAL</p> <p>BF ----- BLIND FLANGE</p> <p>BLDG ----- BUILDING</p> <p>BLK ----- BLOCK</p> <p>BM ----- BENCH MARK OR BEAM</p> <p>B O ----- BOTTOM OF</p> <p>BRK ----- BRICK</p> <p>BW ----- BOTTOM OF WALL</p> <p>C I ----- CAST IRON</p> <p>CL ----- CENTER LINE</p> <p>CLF ----- CHAIN LINK FENCE</p> <p>C O ----- CLEANOUT</p> <p>COL ----- COLUMN</p> <p>CONC ----- CONCRETE</p> <p>CONCEN ----- CONCENTRIC</p> <p>CONT ----- CONTINUATION</p> <p>CONTR ----- CONTRACT</p> <p>CPLG ----- COUPLING</p> <p>CW ----- CITY WATER</p> <p>DI ----- DUCTILE IRON PIPE</p> <p>DIA ----- DIAMETER</p> <p>DISCH ----- DISCHARGE</p> <p>DR ----- DRAIN</p> <p>DWG ----- DRAWING</p> <p>EL ----- ELEVATION</p> <p>ELEC ----- ELECTRIC</p> <p>EXIST ----- EXISTING</p> <p>EXT ----- EXTERIOR</p> <p>FD ----- FLOOR DRAIN</p> <p>FLEX ----- FLEXIBLE</p> <p>FLG ----- FLANGE</p> <p>FT ----- FEET</p> <p>GC ----- GENERAL CONTRACTOR</p> <p>GR ----- GROUND OR GRADE</p> <p>HC ----- HANDICAP</p> <p>HORIZ ----- HORIZONTAL</p> <p>HP ----- HIGH POINT OR HORSE POWER</p> <p>HT ----- HEIGHT</p> <p>IN ----- INCH</p>	<p>INT ----- INTERIOR</p> <p>INV ----- INVERT</p> <p>LP ----- LOW POINT</p> <p>MCC ----- MOTOR CONTROL CENTER</p> <p>MH ----- MANHOLE</p> <p>MHW ----- MEAN HIGH WATER</p> <p>MHHW ----- MEAN HIGHER - HIGH WATER</p> <p>MIN ----- MINIMUM</p> <p>MLW ----- MEAN LOW WATER</p> <p>MLLW ----- MEAN LOWER - LOW WATER</p> <p>MO ----- MOTOR OPERATED</p> <p>MTL ----- MEAN TIDE LEVEL</p> <p>NO ----- NUMBER</p> <p>NTS ----- NOT TO SCALE</p> <p>OD ----- OUTSIDE DIAMETER</p> <p>PE ----- PLAIN END</p> <p>PL ----- PROPERTY LINE</p> <p>PROP ----- PROPOSED</p> <p>PVC ----- POLYVINYL CHLORIDE</p> <p>R ----- RADIUS</p> <p>RED ----- REDUCER</p> <p>REINF ----- REINFORCED</p> <p>SCH ----- SCHEDULE</p> <p>S/S ----- STAINLESS STEEL</p> <p>ST ----- STREET</p> <p>STA ----- STATION</p> <p>STL ----- STEEL</p> <p>T O ----- TOP OF</p> <p>TW ----- TOP OF WALL</p> <p>(TYP) ----- TYPICAL</p> <p>U O N ----- UNLESS OTHERWISE NOTED</p> <p>VERT ----- VERTICAL</p> <p>VIF ----- VERIFY IN FIELD</p> <p>WP ----- WORKING POINT</p> <p>WS ----- WATER SURFACE</p>
FOR MECHANICAL PIPING LEGEND AND SYMBOLS SEE DWG GM-01					

NAN-2011-00680-EHA 2/9

NO.	DATE	DESCRIPTION	APPROV.	SECTION CHIEF
		CONFORMED		
		REVISIONS		

SCALE:
NONE



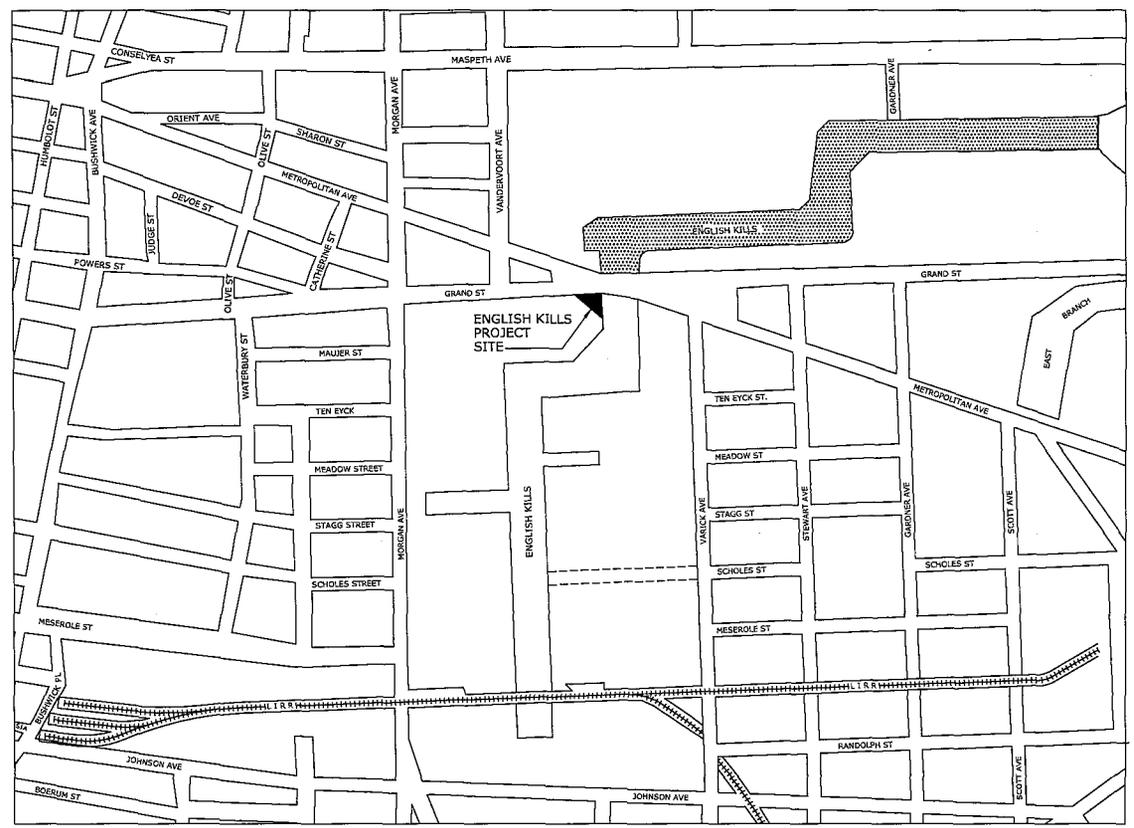
Robert J. ...
Professional Engineer
PORTFOLIO NUMBER: ...

WARNING-It is a violation of the New York State Education Law, Section, 7209.2, for any person, unless (s)he is acting under the direction of a licensed Professional Engineer, to alter this document in any way. If altered, the altering person shall comply with the requirements of New York Education, Law, Section, 7209.2.

THE CITY OF NEW YORK
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION

CONTRACT CSO-NC-2
ENGLISH KILLS
KINGS COUNTY - NEW YORK
LEGEND AND ABBREVIATIONS

DATE: JANUARY 2011
DWG. NO.: GC-01
SHEET: 01



NOTE:
1. THE PROPOSED WORK IS LOCATED IN AN AUTHORIZED BUT NOT CONSTRUCTED FEDERAL NAVIGATION CHANNEL.

NAN-2011-00080-EHA 3/9

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REVISIONS			

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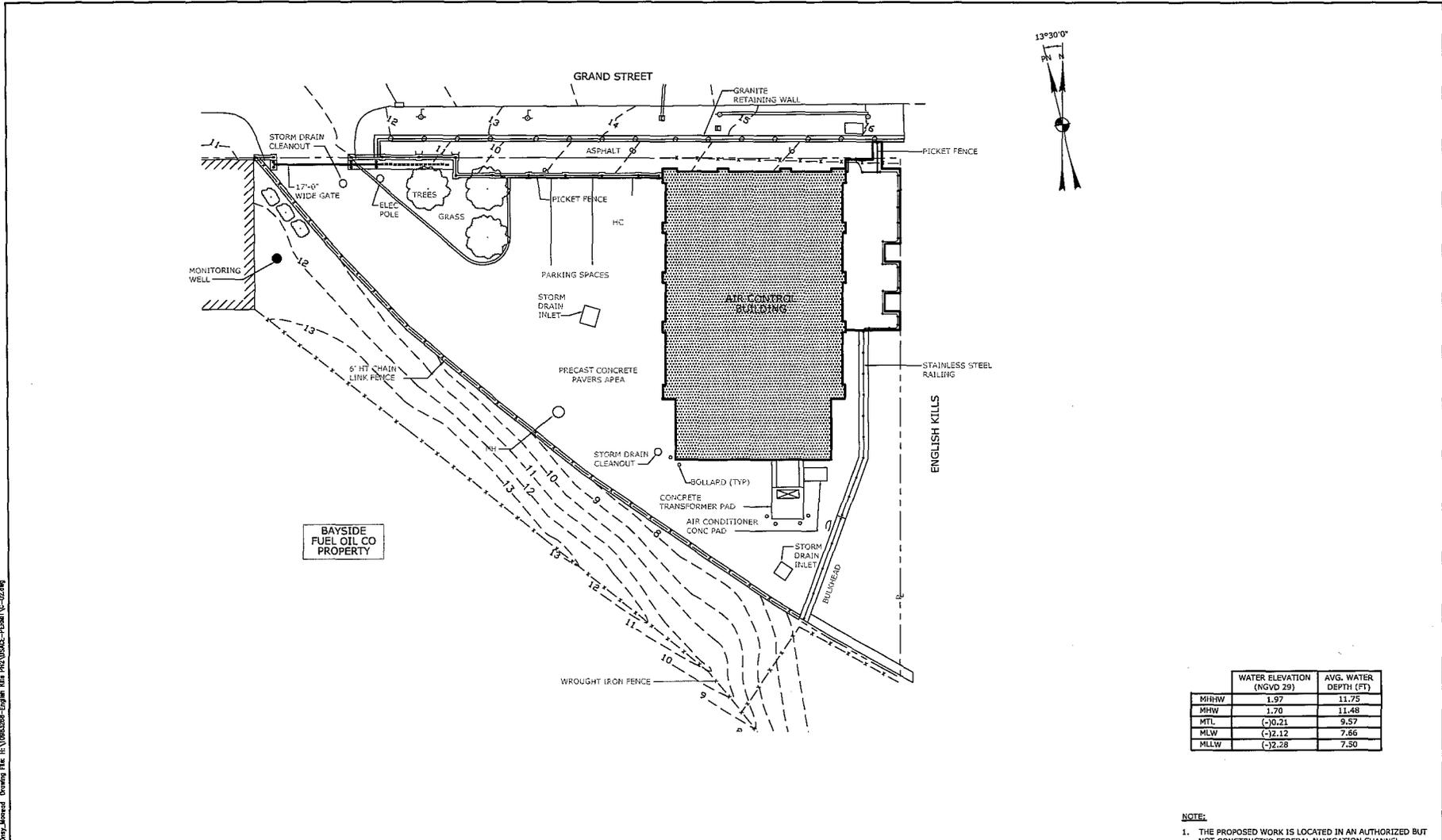
ACCOUNTABLE ENGINEER
 PORTFOLIO MANAGER

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THE CITY OF NEW YORK
 DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
 BUREAU OF ENGINEERING DESIGN & CONSTRUCTION

CONTRACT CSO-NC-2
 ENGLISH KILLS
 KINGS COUNTY - NEW YORK
 SITE LOCATION PLAN

DATE	JANUARY 2011
DWG. NO.:	C-01
SHEET NO.:	01



	WATER ELEVATION (NGVD 29)	AVG. WATER DEPTH (FT)
MHW	1.97	11.75
MHW	1.70	11.48
MTL	(-0.21)	9.57
MLW	(-12.12)	7.66
MLLW	(-12.28)	7.50

NOTE:
 1. THE PROPOSED WORK IS LOCATED IN AN AUTHORIZED BUT NOT CONSTRUCTED FEDERAL NAVIGATION CHANNEL.

NAN-2011-00680-EHA 4/9

NO.	DATE	DESCRIPTION	APPROV. BY	SECTION CHIEF
1		CONFORMED		

SCALE:
 1"=10'

Robert J. Roser
 REGISTERED PROFESSIONAL ENGINEER
 PORTFOLIO MANAGER

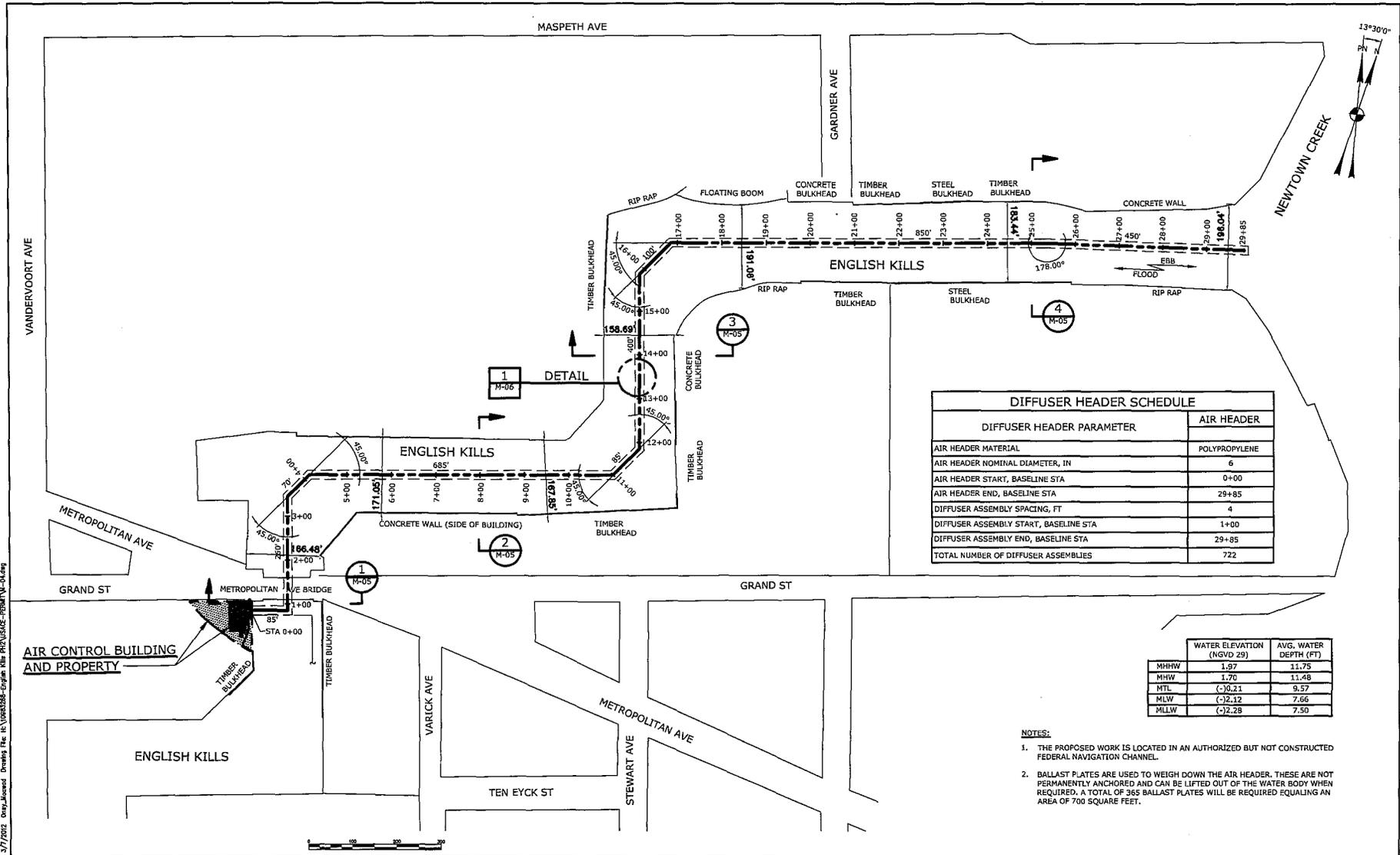
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THE CITY OF NEW YORK
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 BUREAU OF ENGINEERING DESIGN & CONSTRUCTION

CONTRACT CSO-NC-2
 ENGLISH KILLS
 KINGS COUNTY - NEW YORK
 SITE PLAN

DATE	JANUARY 2011
DWG. NO.	C-02
SHEET NO.	02

Title: B-10 A.M. Date: 3/7/2012 Drawn: Merged Drawing File: H:\00680-00-English Kills PRE\USACE-PRDML\NC-02.dwg



DIFFUSER HEADER SCHEDULE	
DIFFUSER HEADER PARAMETER	AIR HEADER
AIR HEADER MATERIAL	POLYPROPYLENE
AIR HEADER NOMINAL DIAMETER, IN	6
AIR HEADER START, BASELINE STA	0+00
AIR HEADER END, BASELINE STA	29+85
DIFFUSER ASSEMBLY SPACING, FT	4
DIFFUSER ASSEMBLY START, BASELINE STA	1+00
DIFFUSER ASSEMBLY END, BASELINE STA	29+85
TOTAL NUMBER OF DIFFUSER ASSEMBLIES	722

	WATER ELEVATION (NGVD 29)	AVG. WATER DEPTH (FT)
MHHW	1.97	11.75
MHW	1.70	11.48
MTL	(-10.21)	9.57
MLW	(-12.12)	7.66
MLLW	(-12.28)	7.50

- NOTES:**
1. THE PROPOSED WORK IS LOCATED IN AN AUTHORIZED BUT NOT CONSTRUCTED FEDERAL NAVIGATION CHANNEL.
 2. BALLAST PLATES ARE USED TO WEIGH DOWN THE AIR HEADER. THESE ARE NOT PERMANENTLY ANCHORED AND CAN BE LIFTED OUT OF THE WATER BODY WHEN REQUIRED. A TOTAL OF 365 BALLAST PLATES WILL BE REQUIRED EQUALING AN AREA OF 700 SQUARE FEET.

Title: 8-10-A-11 Date: 3/7/2011 Comp: J. J. ... Drawing File: I:\Users\j... \Projects\11-00680-ETHA\11-00680-ETHA.dwg

DESIGNED BY	CHKD BY	DATE	DESCRIPTION

SCALE: 1"=100'

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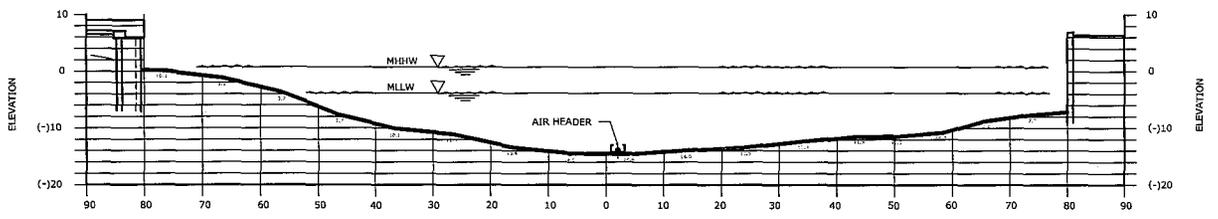
THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION

CONTRACT CSO-NC-2
ENGLISH KILLS
KINGS COUNTY - NEW YORK
DIFFUSER ALIGNMENT PLAN

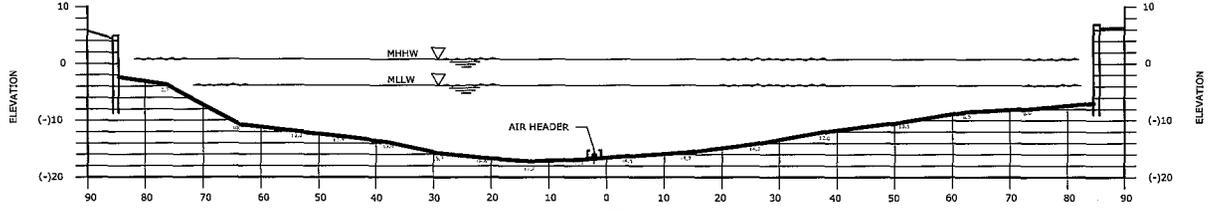
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SHEET NO: 05

NAN-2011-00680-ETHA 5/9

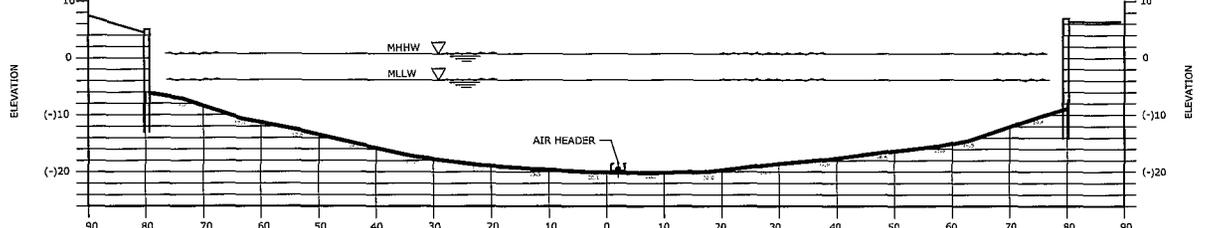
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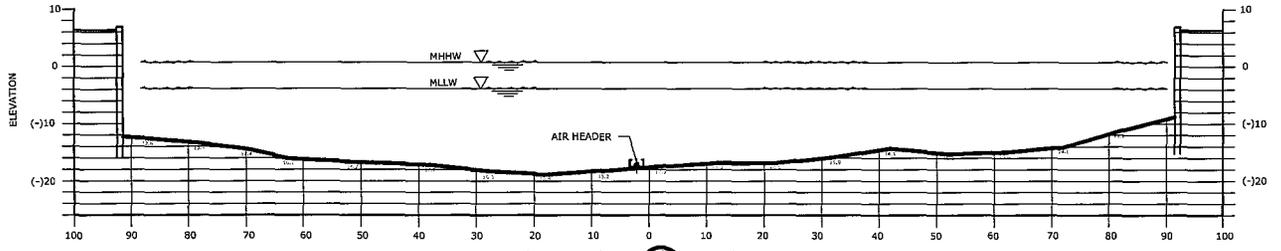
CROSS SECTION 1 AT STA 1+00



CROSS SECTION 2 AT STA 8+00



CROSS SECTION 3 AT STA 14+00



CROSS SECTION 4 AT STA 25+00

- PRELIMINARY DESIGN NOTES:**
1. AIR HEADER DIFFUSER PIPE IS SHOWN INSTALLED ALONG THE ENGLISH KILLS WATER CENTERLINE.
 2. ALL ELEVATIONS ARE REFERENCED TO BROOKLYN SEWER DATUM UNLESS OTHERWISE NOTED, WHICH IS 1.72 FEET ABOVE NGVD 1929.
 3. THE PROPOSED WORK IS LOCATED IN AN AUTHORIZED BUT NOT CONSTRUCTED FEDERAL NAVIGATION CHANNEL.



NO.	DATE	DESCRIPTION	APPROVED	SECTION CHIEF
DCT-11		CONFORMED		
REVISIONS				

SCALE:
1" = 10'

Roy T. [unreadable]
 ACCOUNTABLE PROFESSIONAL ENGINEER
 [Signature]
 PORTFOLIO NUMBER: [unreadable]

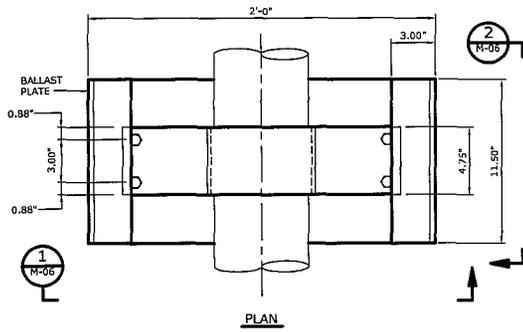
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THE CITY OF NEW YORK
 DEPARTMENT OF
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 BUREAU OF ENGINEERING DESIGN & CONSTRUCTION

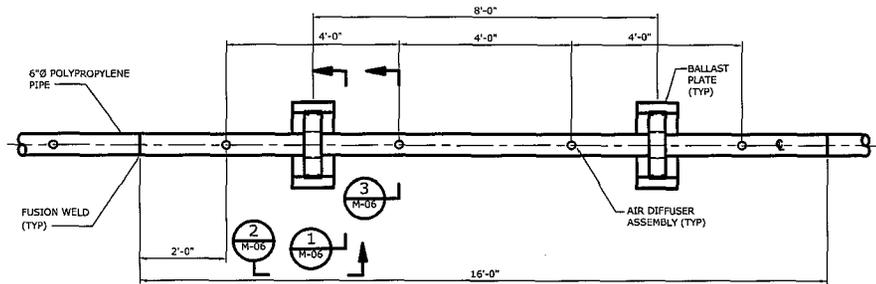
CONTRACT CSO-NC-2
 ENGLISH KILLS
 KINGS COUNTY - NEW YORK
 DIFFUSER ALIGNMENT
 CROSS SECTIONS

DATE: JANUARY 2011
 DWG. NO.: M-05
 SHEET NO.: 01

NAN-2011-00680-ETA 6/9

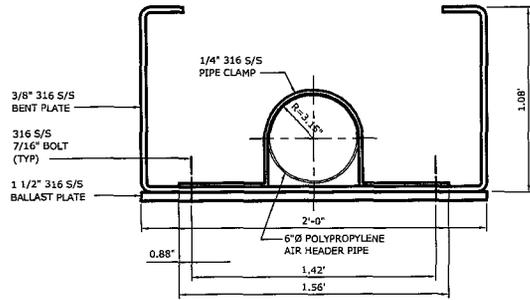


PLAN

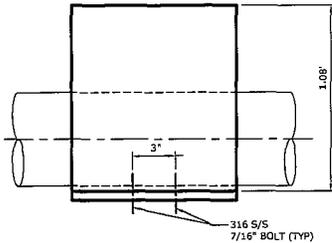


PLAN

DIFFUSER AIR HEADER DETAIL 1 M-06

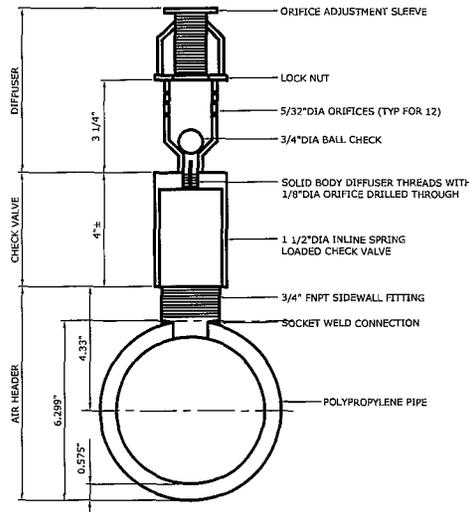


SECTION 1 M-06



SECTION 2 M-06

BALLAST PLATE



SECTION 3 M-06

AIR DIFFUSER ASSEMBLY

	WATER ELEVATION (NGVD 29)	AVG. WATER DEPTH (FT)
MHHW	1.97	11.75
MHW	1.70	11.48
MTL	(-0.21)	9.57
MLW	(-12.12)	7.66
MLLW	(-12.28)	7.50

- NOTES:
1. ALL AREAS IN CONTACT WITH PIPING TO BE PROVIDED WITH 1/8" THICK NEOPRENE SHEET BONDED TO CLAMP.
 2. ALL BOLTS 316 S/S
 3. THE PROPOSED WORK IS LOCATED IN AN AUTHORIZED BUT NOT CONSTRUCTED FEDERAL NAVIGATION CHANNEL.
 4. BALLAST PLATES ARE USED TO WEIGH DOWN THE AIR HEADER. THESE ARE NOT PERMANENTLY ANCHORED AND CAN BE LIFTED OUT OF THE WATER BODY WHEN REQUIRED. A TOTAL OF 365 BALLAST PLATES WILL BE REQUIRED EQUALING AN AREA OF 700 SQUARE FEET.

Date: 4:49 A.M. Date: 3/7/2011 User: jmoran Drawing File: I:\Projects\2011-00680-ETRA\2011-00680-ETRA.dwg

NO.	DATE	DISCUSSION	APPROV.
DCT-11		CONFORMED	
REVISIONS			

DRAWN BY:	REV
DESIGNED BY:	DATE
CHECKED BY:	SCALE
SCALE:	NONE
DATE:	
SECTION CHIEF:	

ACCOUNTABLE PROFESSIONAL ENGINEER

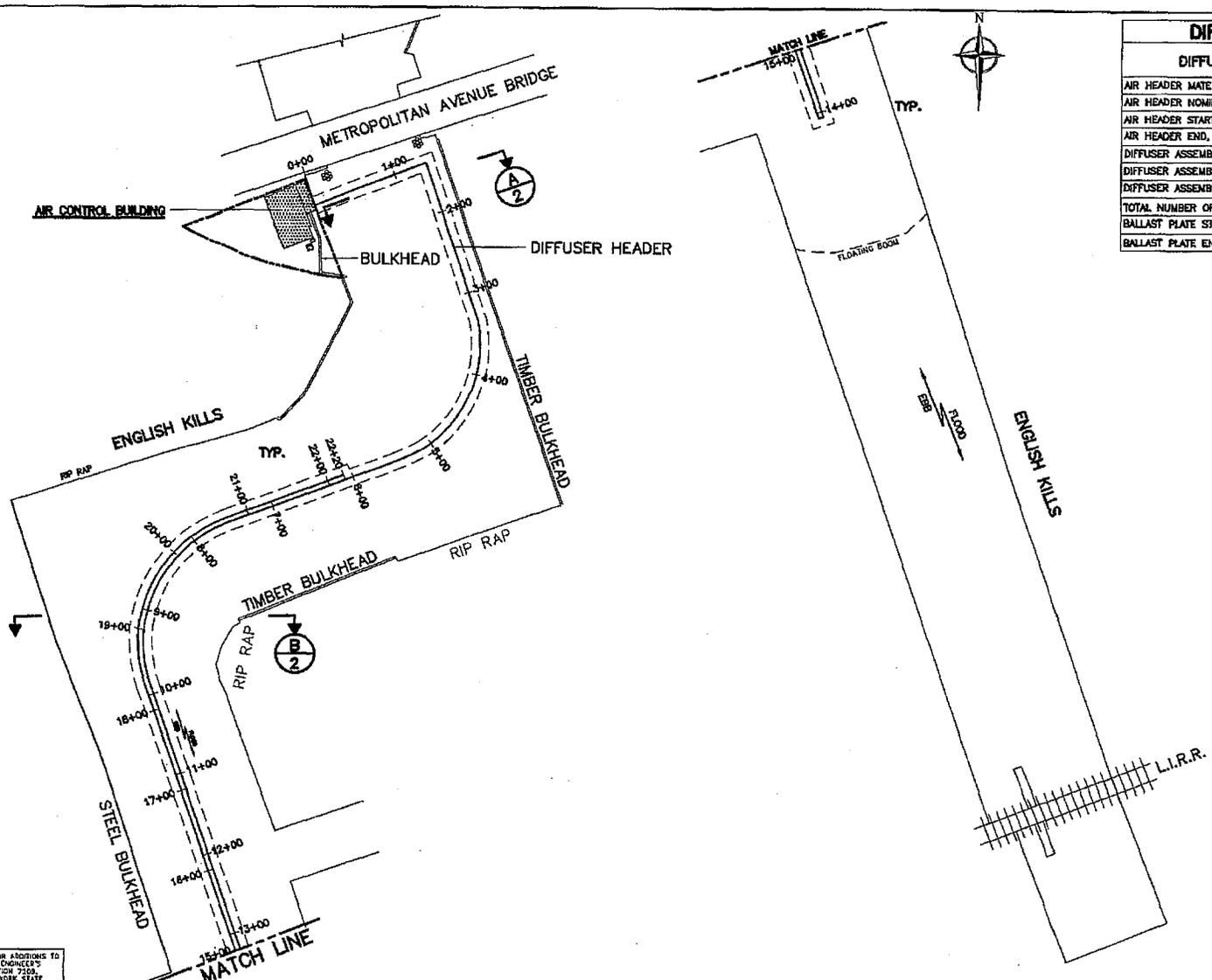
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CONTRACT CSO-NC-2
 ENGLISH KILLS
 KINGS COUNTY - NEW YORK
 DIFFUSER ASSEMBLY DETAILS

DATE:	JANUARY 2011
DWG. NO.:	M-06
SHEET NO.:	OF:

NAN-2011-00680-ETRA 7/9



DIFFUSER HEADER SCHEDULE	
DIFFUSER HEADER PARAMETER	AIR HEADER
AIR HEADER MATERIAL	POLYPROPYLENE
AIR HEADER NOMINAL DIAMETER, IN.	6
AIR HEADER START, BASELINE STA	0+00
AIR HEADER END, BASELINE STA	22+20
DIFFUSER ASSEMBLY SPACING, FT	4
DIFFUSER ASSEMBLY START, BASELINE STA	2+00
DIFFUSER ASSEMBLY END, BASELINE STA	22+20
TOTAL NUMBER OF DIFFUSER ASSEMBLIES	506
BALLAST PLATE START, BASELINE STA	0+02
BALLAST PLATE END, BASELINE STA	22+18

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A PLAN BEARING A LICENSED ENGINEER'S SEAL IS A VIOLATION OF SECTION 2209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

DESIGNED	VF
DRAWN	KM
CHECKED	RAH
SECT. CHIEF	
PROJ. MGR.	SK

SCALE
1"=50'



URS

APPROVED FOR THE CITY OF NEW YORK
PROJECT MANAGER
P.E.
CHIEF, DIVISION OF FACILITIES DESIGN WORKS

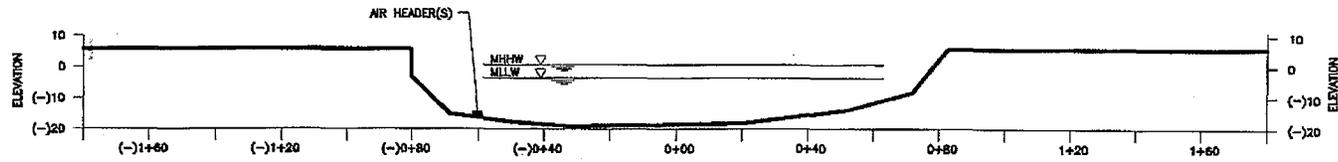


CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL ENGINEERING
DIVISION OF FACILITIES DESIGN
WP-169 ENGLISH KILLS
PHASE I AERATION

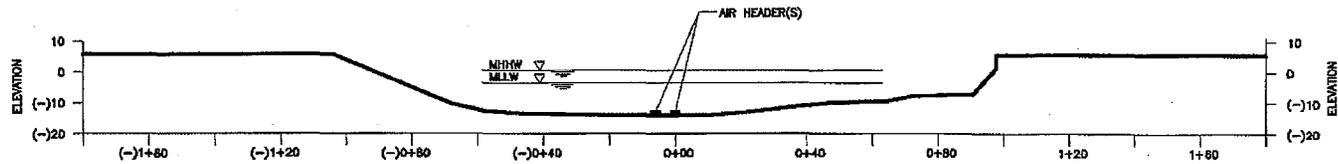
CONTRACT NO. NS-EX110
STRUCTURES & EQUIPMENT
MECHANICAL
EXISTING AERATION ALIGNMENT PLAN

DATE AUGUST 2004
SHEET ___ OF ___
DWG. NO. _____

NAN-2011-00680-EHA 8/9



CROSS SECTION A-A AT STA. 1+50



CROSS SECTION B-B AT STA. 9+00

Date: 8/19/04 File: 2/27/2004 Date: 8/19/2004 Drawing File: N:\000000-English\04\04\00\A000-0000\0000.dwg

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO
 A PLAN DRAWING A LICENSED ENGINEER'S
 SEAL IS A VIOLATION OF SECTION 2209,
 SUBDIVISION 2, OF THE NEW YORK STATE
 EDUCATION LAW.

DESIGNED: VF DRAWN: KM CHECKED: RAH SECT. CHIEF: -- PROJ. MGR.: SX		SCALE: NONE		URS	APPROVED FOR THE CITY OF NEW YORK _____ P.E. PROJECT MANAGER _____ P.E. CHIEF, DIVISION OF FACILITIES DESIGN		CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF ENVIRONMENTAL ENGINEERING DIVISION OF FACILITIES DESIGN WP-169 ENGLISH KILLS PHASE I AERATION	CONTRACT NO. NC-5K115 STRUCTURES & EQUIPMENT MECHANICAL EXISTING AERATION ALIGNMENT CROSS SECTIONS	DATE: AUGUST 2004 SHEET: - 4F - DWG. NO.:
NO. _____ DATE _____ ISSUED FOR _____ BY _____									

NAN-2011-00680-ETA 9/9