



# 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-2007-684-EHA  
Issue Date: September 24, 2007  
Expiration Date: October 24, 2007

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, 4<sup>th</sup> Floor, Low Rise  
                      Corona, New York 11368-5107

ACTIVITY:        Dredge 20,000 cubic yards with onsite dewatering and upland placement, cap with sand/gravel,  
                      install 2 rip-rap aprons.

WATERWAY:       Hendrix Canal, a tributary to Jamaica Bay

LOCATION:        Spring Creek, 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.

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 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, 41 State Street, 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:

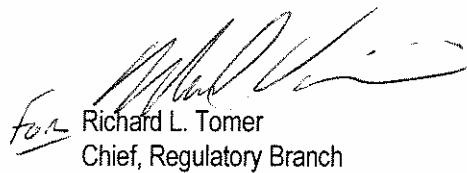
- New York City Department of Environmental Protection, New York City Department of Planning, New York State Department of Environmental Conservation

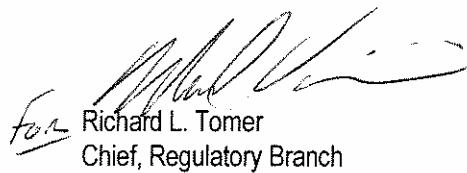
It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact this office at (917) 790-8523 and ask for Naomi Handell.

CENAN-OP-RE

PUBLIC NOTICE NO. NAN-2007-684-EHA

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

## WORK DESCRIPTION

The applicant, New York City Department of Environmental Protection, has requested Department of the Army authorization to dredge contaminated sediments with onsite dewatering, cap the exposed sediment with sand and gravel, and install two rip-rap aprons. The dredged material would be placed at an authorized upland facility. The proposed project is located in the Hendrix Street Canal, Spring Creek, Borough of Brooklyn, Kings County, New York.

The work would involve dredging via hydraulic cutterhead dredge approximately 20,000 cubic yards of contaminated combined sewer overflow sediments from a 1,440 foot long by 130 to 180 foot wide section of the Hendrix Street Canal to a depth of -4 feet below the plane of mean low water (see Sheets 4 and 5 of 23).

The resultant dredged material, composed of 23% organic matter, 55% fines and 22% sand, would be dewatered on site (see Sheet 13 of 23) and then transported to an authorized upland facility.

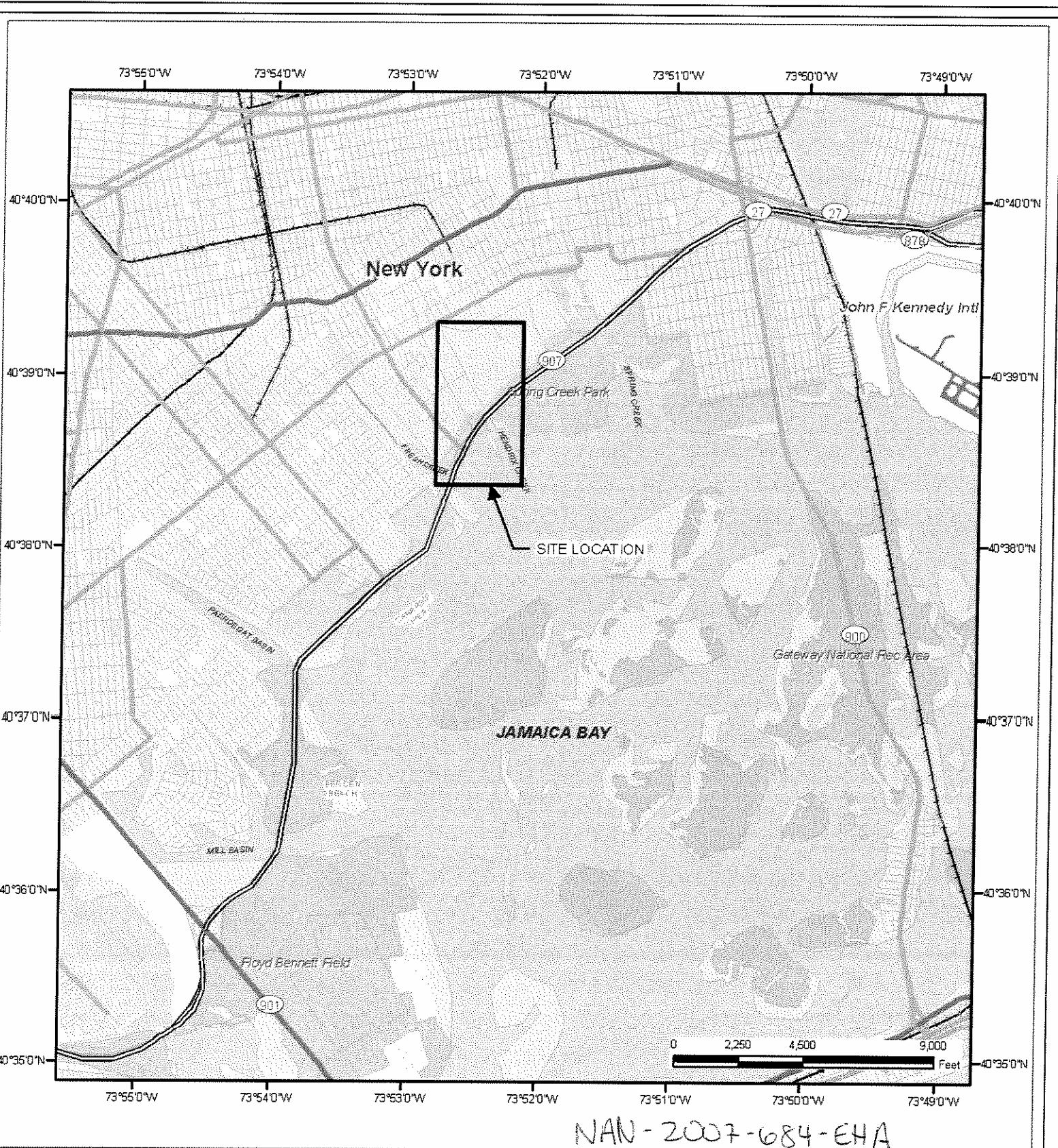
The following best management practices will be used during the dredging process:

- a) the work area will be segregated with a turbidity boom;
- b) return flow from the dewatering process will be managed to maintain a total suspended solids concentration of less than 100mg/L at the discharge point; and
- c) if the turbidity boom needs to be opened, it will only done during high tide and periods of non-dredging activity.

After the dredged material is removed from the project site, approximately 259,200 square feet of sand and gravel fill will be installed as a cap to stabilize the contaminated sediment and prevent erosion (see Sheet 9 of 23). The cap will be installed with a hydraulic dredge and will consist of approximately 10,000 cubic yards of sand fill in a 12 inch layer, followed by 5,000 cubic yards of gravel fill in a 6 inch layer. The final bottom elevation after capping will be -2.5 feet below the plane of mean low water.

One hundred ninety cubic yards of sand and 190 cubic yards of stone in a gabion mattress would be discharged to create an approximately 12,276 square foot rip-rap apron to prevent erosion at a combined sewer overflow outfall located at the head of the canal. Ten cubic yards of sand and 30 cubic yards of fill would be discharged to create an approximately 540 square foot rip-rap apron to prevent erosion at a stormwater/groundwater outlet along the northeastern shoreline (see Sheet 12 of 23).

The stated purpose of this project is to remove contaminated sediment from the canal in order to eliminate nuisance odors and comply with a New York State Department of Environmental Conservation Order on Consent.



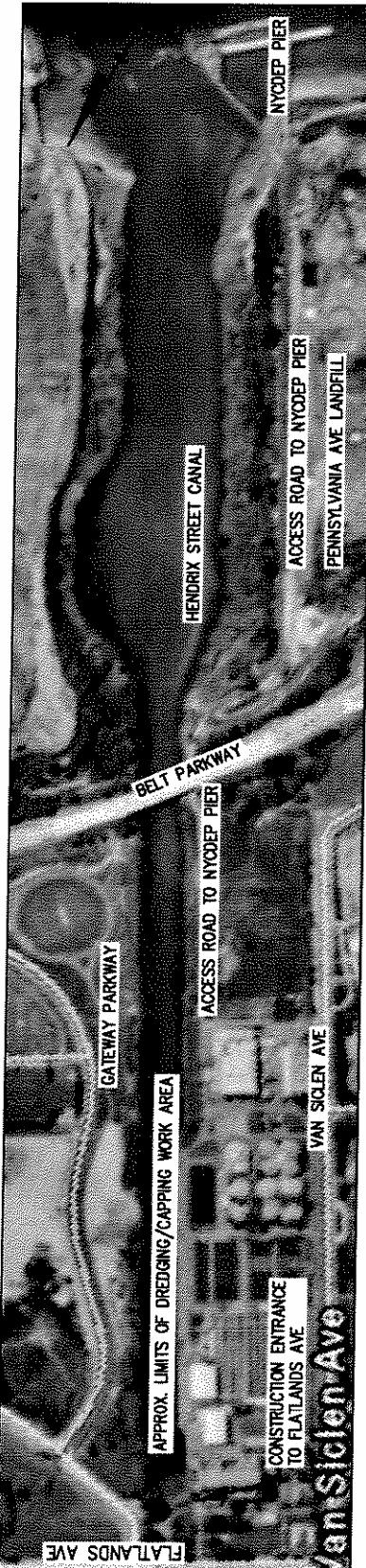
NAN-2007-684-EHA

PURPOSE: PROPOSED INTERIM  
DREDGING TO REMOVE CSO SEDIMENTS  
DATUM: MEAN LOW WATER = -3.6  
BROOKLYN SEWER DATUM = 0.0  
MEAN HIGH WATER = 1.41  
HIGH TIDE LINE = 2.9  
O'BRIEN & GERE ENGINEERS, INC.  
22 SAW MILL RIVER RD.,  
HAWTHORNE, NY 10532

#### VICINITY MAP

APPLICATION BY: CITY OF  
NEW YORK DEPARTMENT  
OF ENVIRONMENTAL  
PROTECTION

INTERIM DREDGING & CAPPING OF  
CSO SEDIMENTS  
AT: HENDRIX STREET CANAL  
BOROUGH OF BROOKLYN, 26TH  
WARD WPCP  
SHEET 1 OF 23  
DATE: 07/05/07 REV. 1  
08/27/07

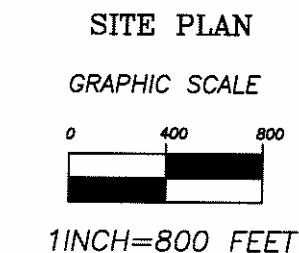


(PHOTO: 2002)

GENERAL NOTES:

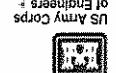
1. HENDRIX STREET CANAL ELEVATIONS REFERENCED ARE IN BROOKLYN SEWER DATUM (BSD).
2. HENDRIX STREET CANAL PLAN AND CROSS-SECTION ELEVATIONS ARE BASED ON A BATHYMETRIC SURVEY PERFORMED BY CLE ENGINEERING, INC. OF MARION, MASSACHUSETTS ON MARCH 13-15, 2007, AND AN UPLAND SURVEY PERFORMED BY INSITE ENGINEERING, SURVEYING AND LANDSCAPE ARCHITECTURE, P.C. OF CARMEL, NEW YORK ON MARCH 13-15, 2007. THE INFORMATION SHOWN REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES NOTED, AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME. INTERPOLATION OF DATA BETWEEN SOUNDING POINTS SHOWN IS NOT GUARANTEED; OBSTRUCTIONS OR OTHER DIFFERING CONDITIONS MAY EXIST BETWEEN SOUNDING LINES THAT ARE NOT SHOWN. THIS SURVEY SHOULD NOT BE USED FOR NAVIGATION WITHOUT FIRST CONSULTING THE ENGINEER.
3. THE LOCATION OF BENCH MARK USED IN THE PREPARATION OF THE BATHYMETRIC SURVEY ARE AS FOLLOWS: BENCHMARK "HENDRIX CREEK" IS THE TOP OF INTERSECTING STEEL DECK GRATING ON THE NORTHEASTERLY SIDE OF A LANDING PIER AT THE 26TH WARD WATER POLLUTION CONTROL PLANT (WPCP) (VAN SICKLEN AVENUE), ON THE WESTERLY SIDE OF HENDRIX CREEK. THE INTERSECTING STEEL GRATE IS LOCATED 0.65 FEET WESTERLY OF THE EASTERLY SIDE OF LANDING PIER, AND 0.20 FEET SOUTHERLY OF THE NORTHERLY SIDE OF LANDING PIER. AN AUXILIARY BENCHMARK HAS ALSO BEEN SET ON A CONCRETE HEADWALL OPPOSITE LANDING PIER ON THE EASTERLY SIDE OF HENDRIX CREEK AND IS DESIGNATED AS BENCHMARK "428-D". THE "HENDRIX CREEK" BENCH MARK IS SET AT AN ELEVATION OF 7.23 BSD.
4. CONTOURS ARE SHOWN IN FEET IN REFERENCE TO THE BROOKLYN SEWER DATUM (BSD) WHICH IS APPROXIMATELY 3.6 FEET ABOVE LOCAL MEAN LOW WATER (MLW).

PURPOSE: PROPOSED INTERIM DREDGING TO REMOVE CSO SEDIMENTS  
DATUM: MEAN LOW WATER = -3.6  
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MEAN HIGH WATER = 1.41  
HIGH TIDE LINE = 2.9  
O'BRIEN & GERE ENGINEERS, INC.  
22 SAW MILL RIVER RD.,  
HAWTHORNE, NY 10532



INTERIM DREDGING & CAPPING OF CSO SEDIMENTS  
AT: HENDRIX STREET CANAL  
SHEET 2 OF 23  
BOROUGH OF BROOKLYN  
DATE: 07/05/07 REV. 1  
08/27/07

Project Name: Hendrix Street Canal  
Cops #: NAN-2004-684-EHA  
Sheet 2 of 23



GENERAL NOTES CON'T:

5. EXACT DIMENSIONS AND LOCATIONS OF ALL STRUCTURES AND UTILITIES ARE  
CONSIDERED APPROXIMATE ONLY AND SHALL BE VERIFIED AS REQUIRED IN THE  
FIELD BY THE CONTRACTOR.
6. UNDERGROUND UTILITIES MAY EXIST, THE LOCATIONS, DEPTHS AND EXTENT OF  
WHICH ARE UNKNOWN. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND  
ELEVATION OF ALL UTILITIES IN THE FIELD AHEAD OF CONSTRUCTION AS REQUIRED TO  
PERFORM THE WORK. LIMITATIONS TO WORK DUE TO UTILITIES THAT MAY BE PRESENT  
ARE AS STATED IN THE SPECIFICATIONS.
7. INTERIOR WATER POLLUTION CONTROL PLANT ROADWAYS ARE TO REMAIN OPEN AT  
ALL TIMES.
8. ANY SURFACE DAMAGED BY THE CONTRACTOR, IN THE OPINION OF THE ENGINEER,  
SHALL BE REPAIRED AND RESTORED TO SIMILAR OR BETTER CONDITION.
9. RENOVATIONS TO THE 26TH WARD WPCP ARE ON-GOING. THE CONTRACTOR SHALL  
COORDINATE DREDGING OPERATIONS WITH OTHER CONTRACTORS ON-SITE AS  
REQUIRED.

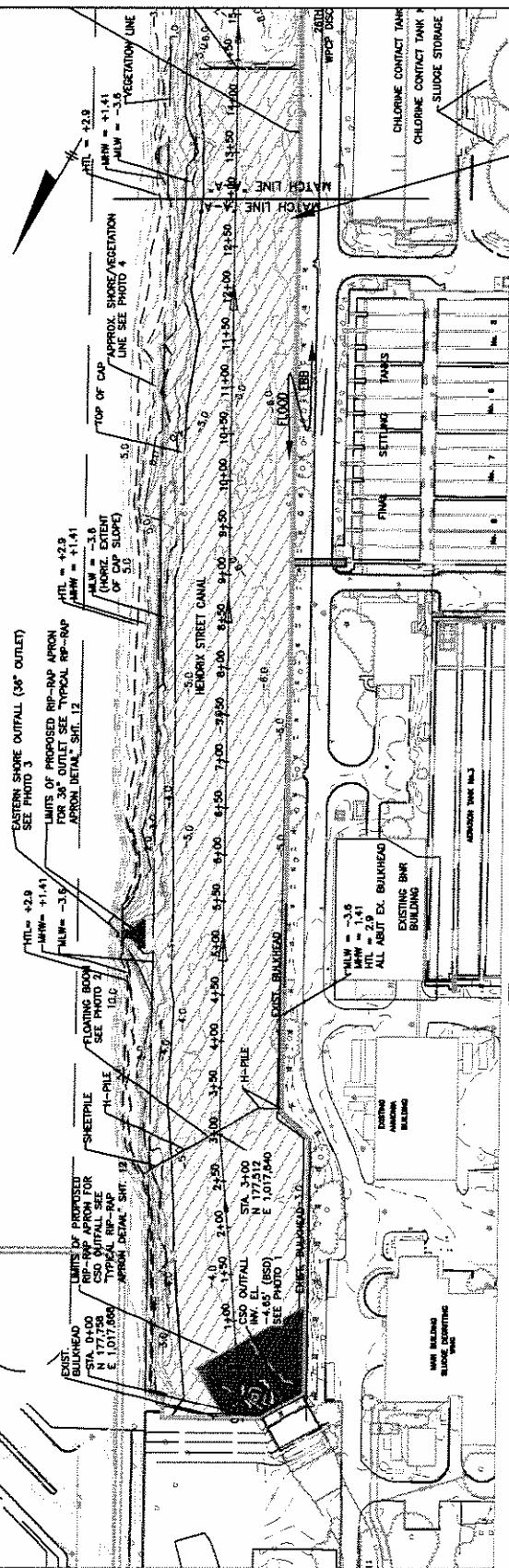


US Army Corps  
of Engineers  
New York District

Corps #: NAN-2007-684-EH  
Project Name: Hendrix St Canal  
Sheet 3 of 23

APPROX. EQUIVALENT DATUM ELEVATIONS		
BROOKLYN SEWER DATUM	NAVD88	MEAN LOW WATER -EST. LOCAL-
0.0	0.6	3.6
-0.6	0.0	3.0
-3.6	-3.0	0.0
-5.6	-5.0	-2.0
-6.1	-5.5	-2.5
-7.6	-7.0	-4.0

PURPOSE: PROPOSED INTERIM DREDGING TO REMOVE CSO SEDIMENTS DATUM: MEAN LOW WATER = -3.6 BROOKLYN SEWER DATUM = 0.0 MEAN HIGH WATER = 1.41 HIGH TIDE LINE = 2.9 O'BRIEN & GERE ENGINEERS, INC. 22 SAW MILL RIVER RD., HAWTHORNE, NY 10532	GENERAL NOTES	INTERIM DREDGING & CAPPING OF CSO SEDIMENTS AT: HENDRIX STREET CANAL SHEET 3 OF 23 BOROUGH OF BROOKLYN DATE: 07/05/07 REV. 1 08/27/07
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PARTIAL PLAN  
APPROXIMATE SCALE: 1"=150'

PROPOSED DREDGE AREA  
APPROX. 1,440' LENGTH  
X VARIABLE WIDTH (130'± TO 180'±)  
TO DEPTH OF -7.6' BSD  
TOP OF CAP ELEV. = -6.1' BSD  
TOTAL DREDGE VOLUME = 20,000 CY ± OF  
COMBINED SEWER OVERFLOW (CSO) SEDIMENTS  
DREDGING TO BE PERFORMED HYDRAULICALLY  
WITH DISPOSAL AT AUTHORIZED UPLAND FACILITY

Organic Matter 23% } Dredged Material  
Fines 55% } Composition  
Sand 22% } NH

#### LEGEND

PROPOSED ELEVATION CONTOUR

EXISTING ELEVATION CONTOUR

PROPOSED DREDGE AREA

14+00 CROSS SECTION STATIONING

(E) ELECTRICAL

(H) HYDRANT

#### DRAWING NOTES:

1. ALL INFORMATION SHOWN HERE IS EXISTING UNLESS OTHERWISE NOTED.
2. SITE PLAN INFORMATION AND UPLAND CONTOURS SHOWN ARE TAKEN FROM CONTRACT 1G-BULKHEAD RECONSTRUCTION DESIGN DRAWINGS PREPARED BY HAZEN & SAWYER, P.C. DATED APRIL 2002.
3. CONTRACTOR SHALL DEVELOP DREDGE SLURRY AND RETURN WATER PIPELINE ROUTE FOR APPROVAL BY THE OWNER PRIOR TO PLACEMENT OF PIPELINE ON THE LANDS OF THE WPCP, PENNSYLVANIA AVENUE LANDFILL OR WITHIN THE WATERS OF THE HENDRIX STREET CANAL.

NAN-2007-684-EHA

PURPOSE: PROPOSED INTERIM  
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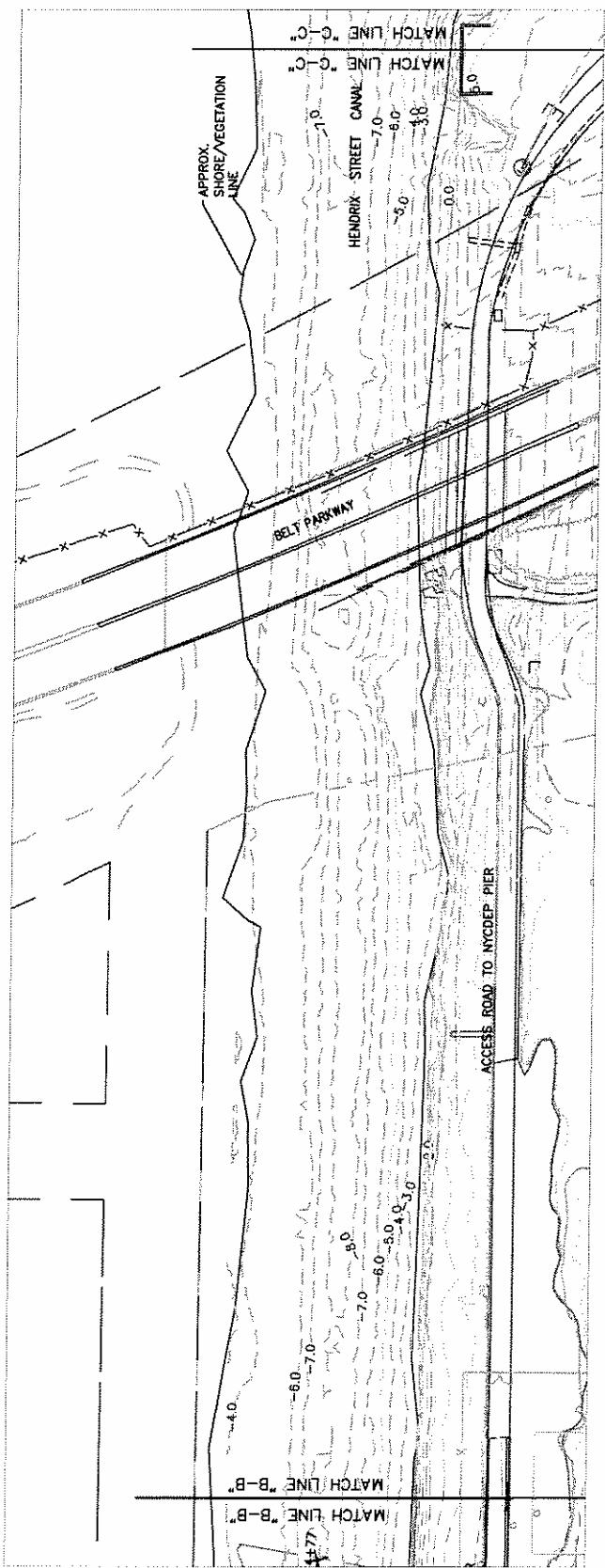
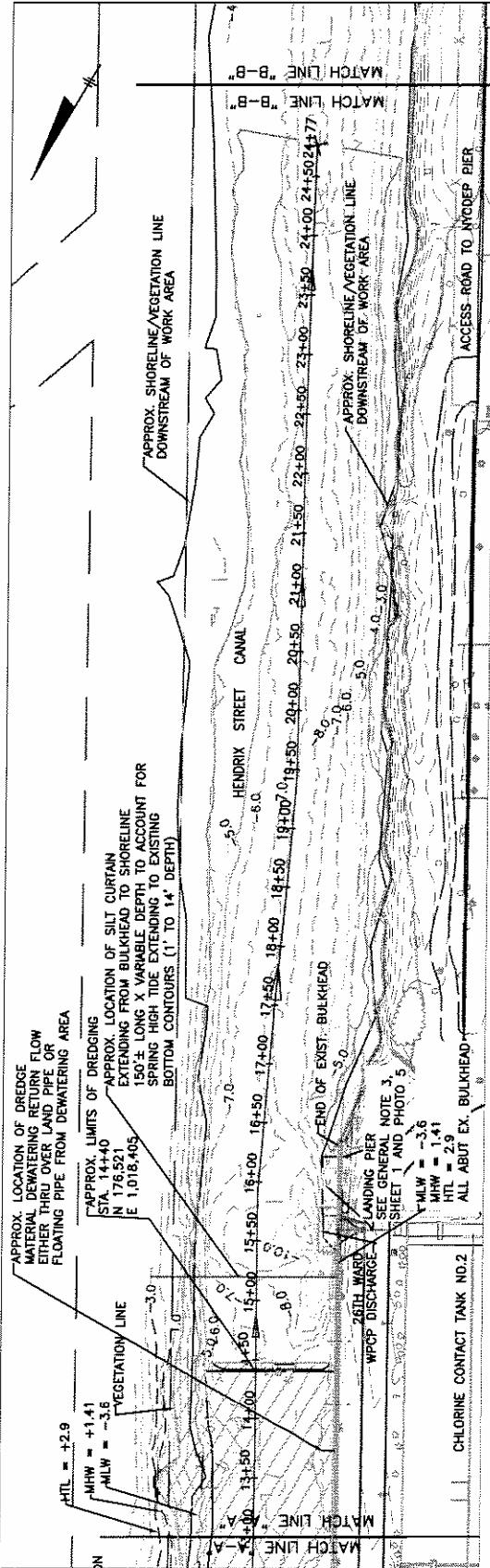
#### PARTIAL PLAN

GRAPHIC SCALE



1 INCH = 150 FEET

INTERIM DREDGING & CAPPING OF  
CSO SEDIMENTS  
AT: HENDRIX STREET CANAL  
SHEET 4 OF 23  
BOROUGH OF BROOKLYN  
DATE: 07/05/07 REV. 1  
08/27/07



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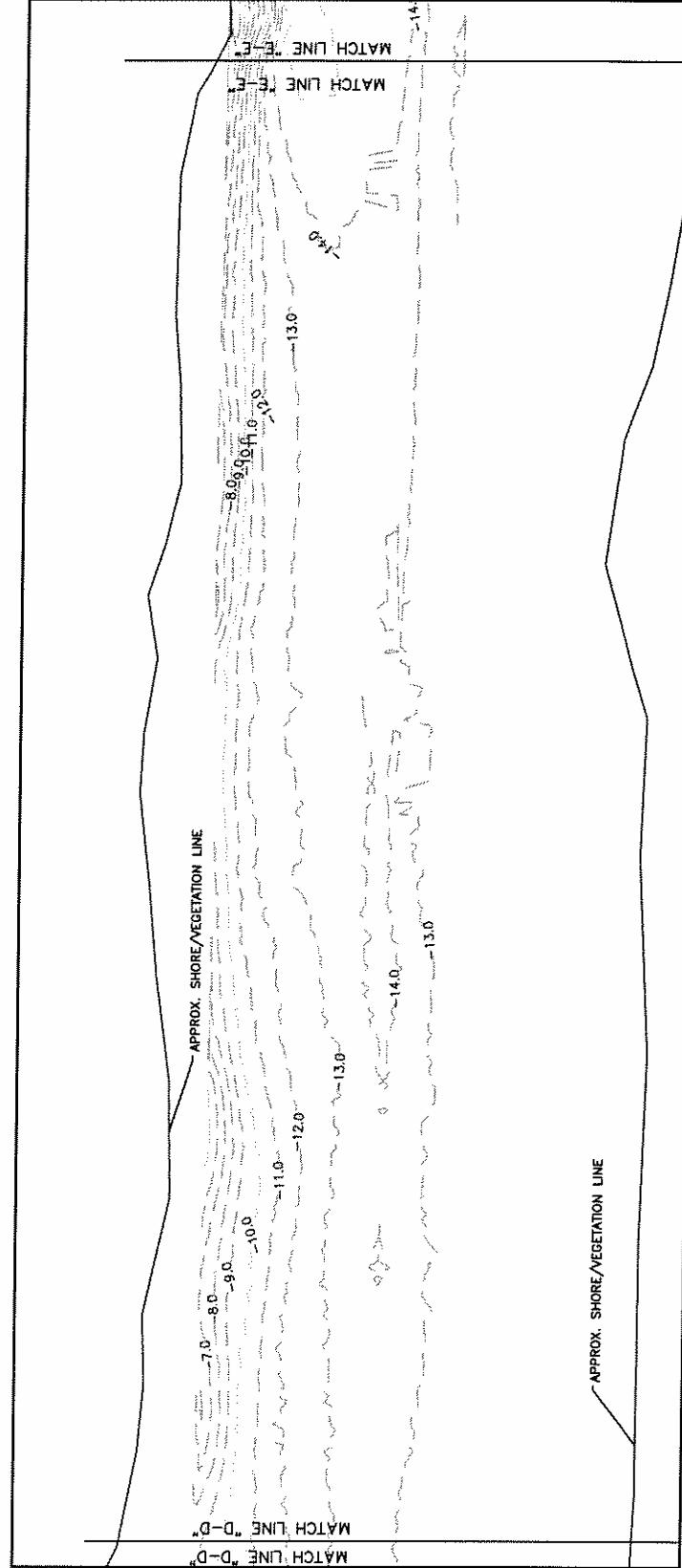
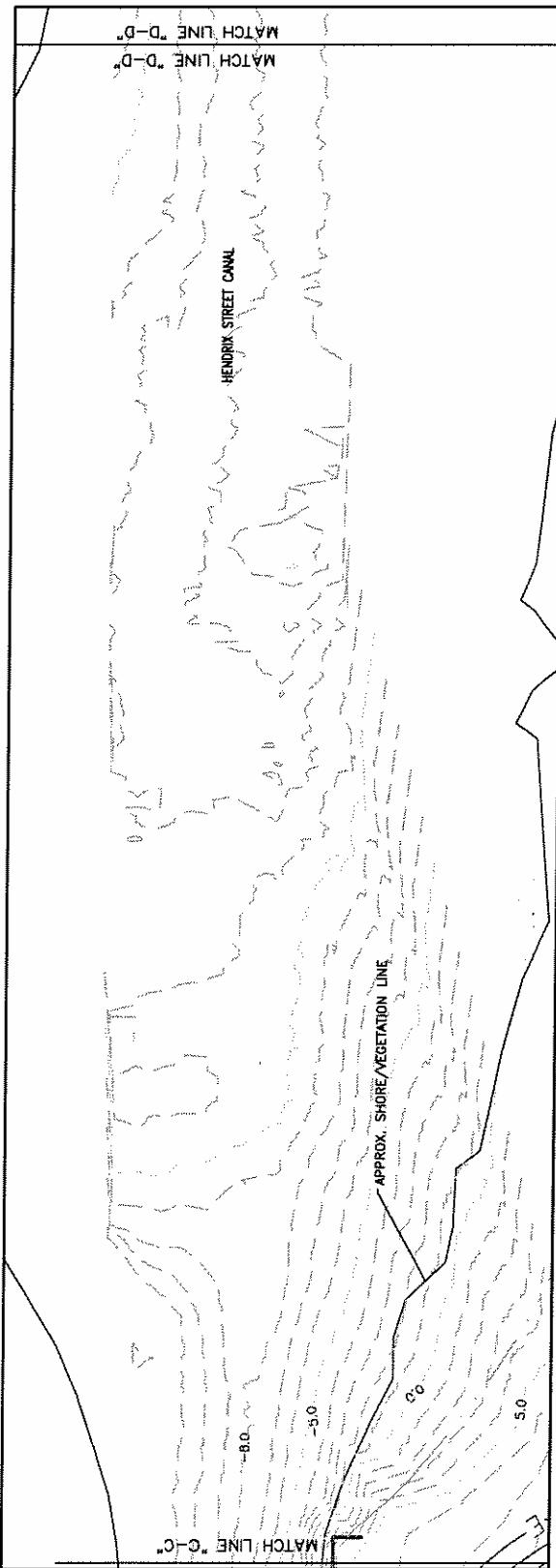
## PARTIAL PLAN

**GRAPHIC SCALE**



1/NCH = 150 FEET  
NAN-2001-684-EHA

INTERIM DREDGING & CAPPING OF  
CSO SEDIMENTS  
AT: HENDRIX STREET CANAL  
SHEET 5 OF 23  
BOROUGH OF BROOKLYN  
DATE: 07/05/07 REV. 1  
08/27/07

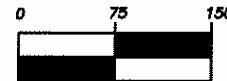


PARTIAL PLAN  
APPROXIMATE SCALE: 1"=150'

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### PARTIAL PLAN

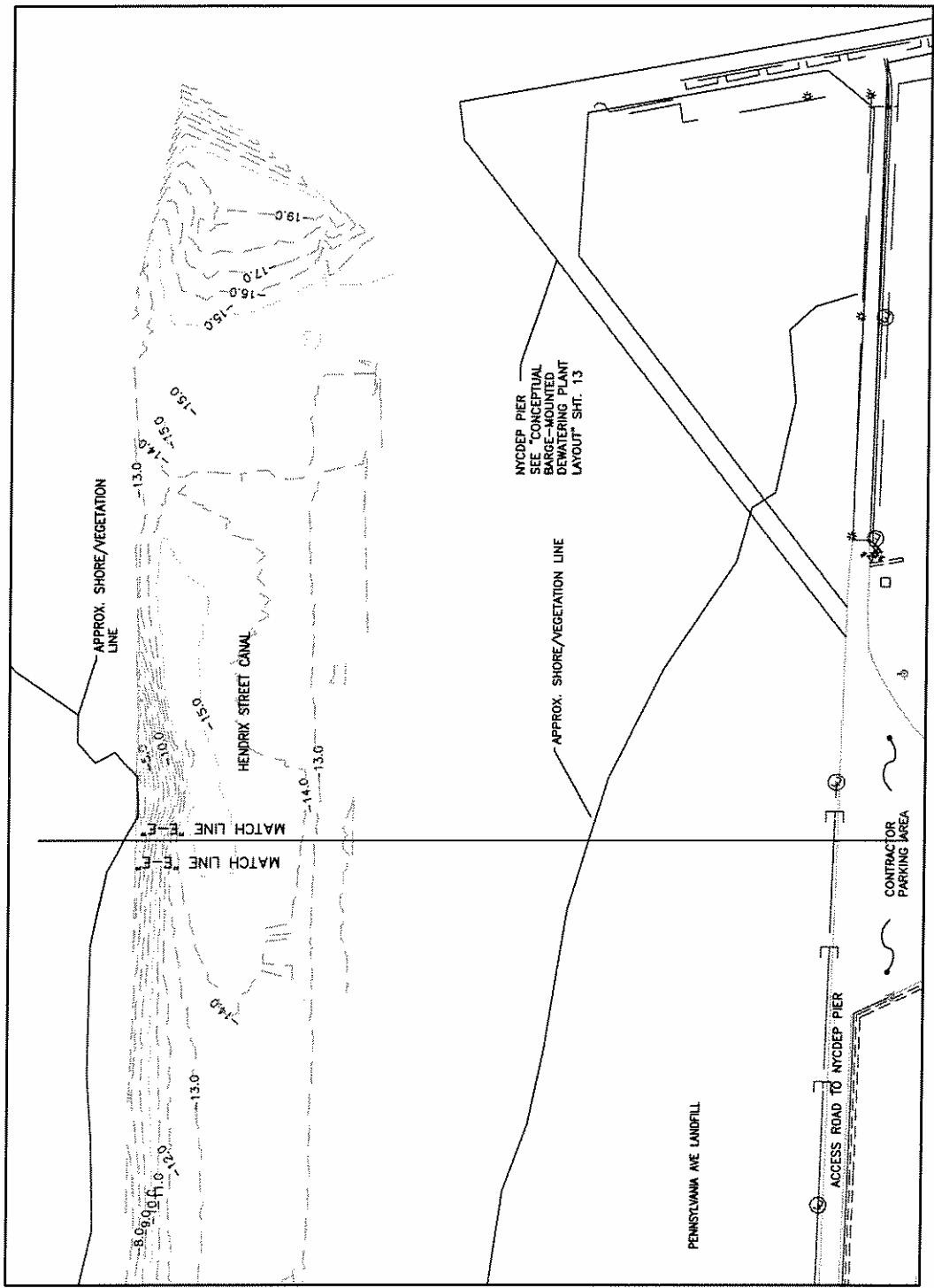
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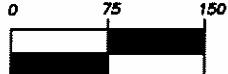
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**PARTIAL PLAN**

GRAPHIC SCALE



1 INCH = 150 FEET

INTERIM DREDGING & CAPPING OF  
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AT: HENDRIX STREET CANAL  
SHEET 7 OF 23  
BOROUGH OF BROOKLYN  
DATE: 07/05/07 REV. 1  
08/27/07

NAN-2007-084.CHA

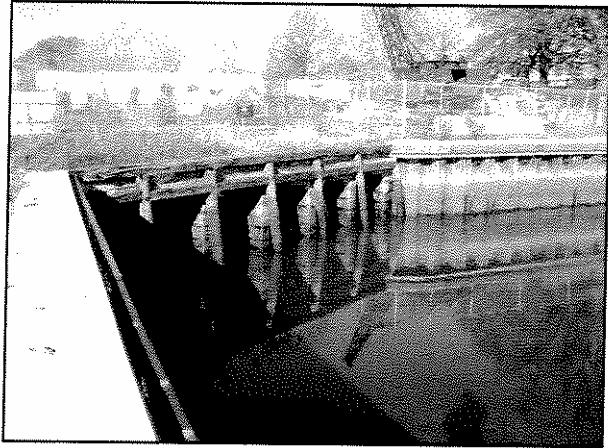


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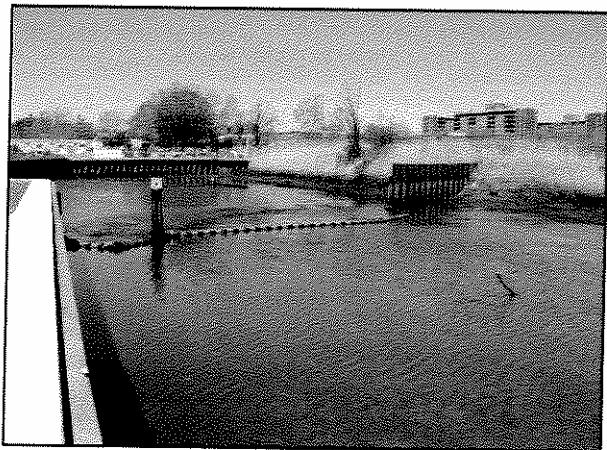


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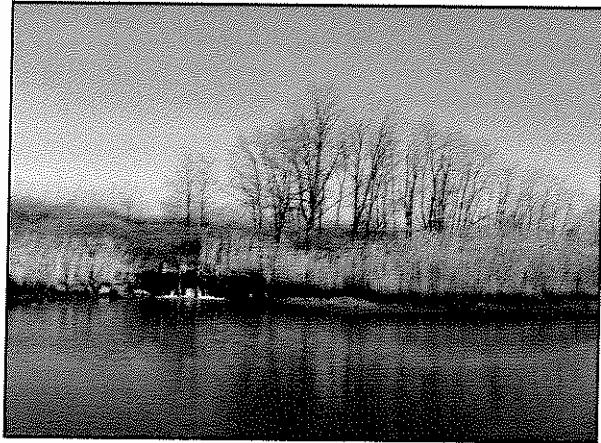


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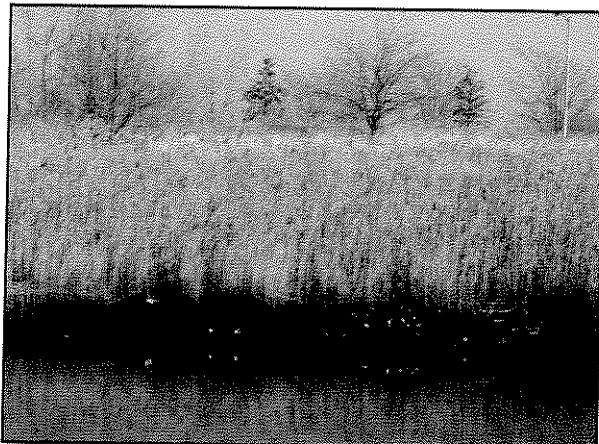


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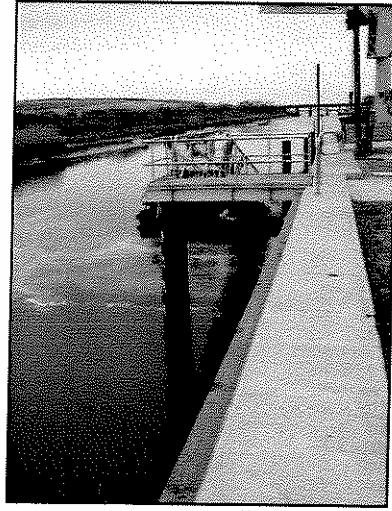


PHOTO #5  
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PHOTOS

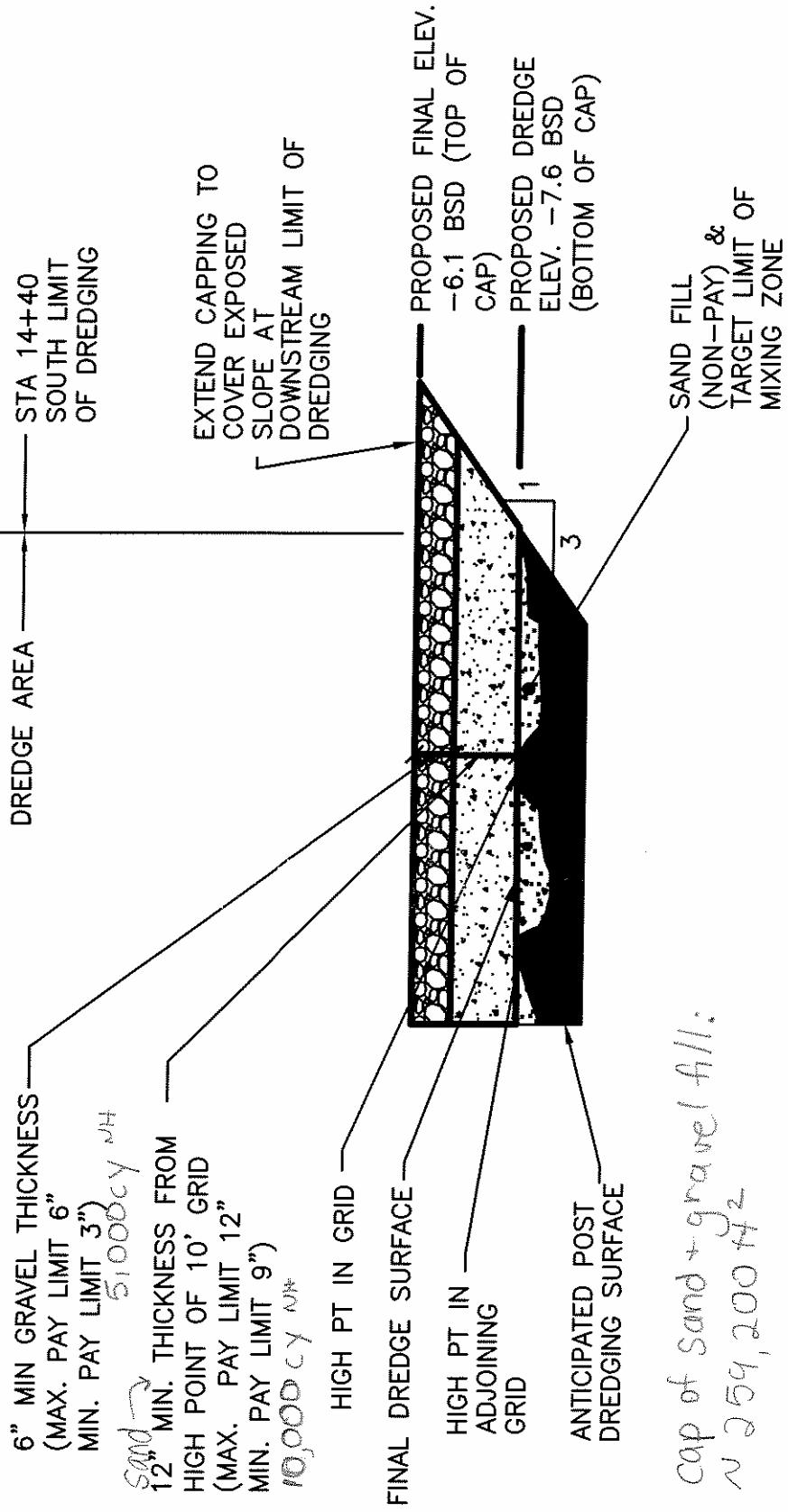
INTERIM DREDGING & CAPPING OF  
CSO SEDIMENTS  
AT: HENDRIX STREET CANAL  
SHEET 8 OF 23  
BOROUGH OF BROOKLYN  
DATE: 07/05/07 REV. 1  
08/27/07  
NAN 2007-684-ELTA



US Army Corps  
of Engineers

New York District

Corps #: NIAN-2007-084-THA  
Project Name: HENDRIX ST CANAL  
Sheet 6 of 23



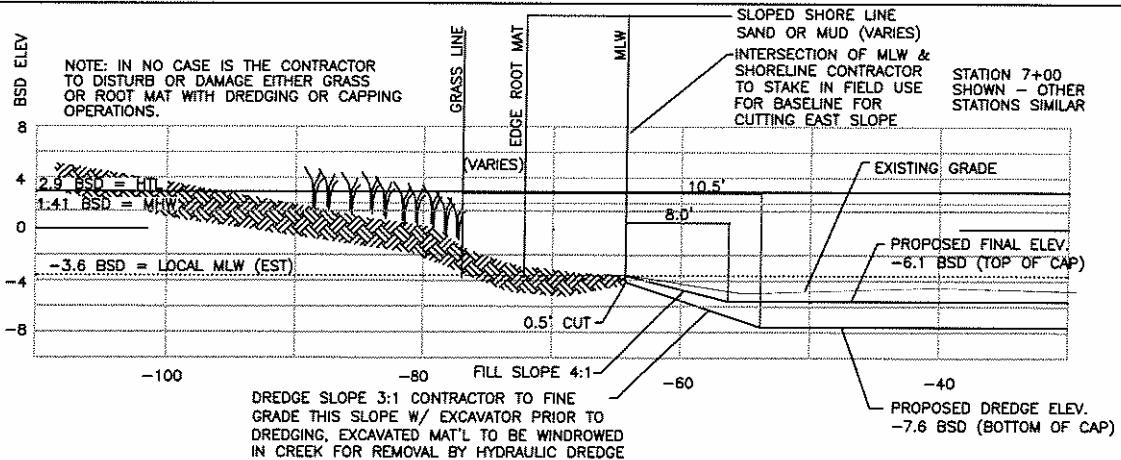
### TYP. SECTION DOWNSTREAM LIMIT OF DREDGING

NOT TO SCALE

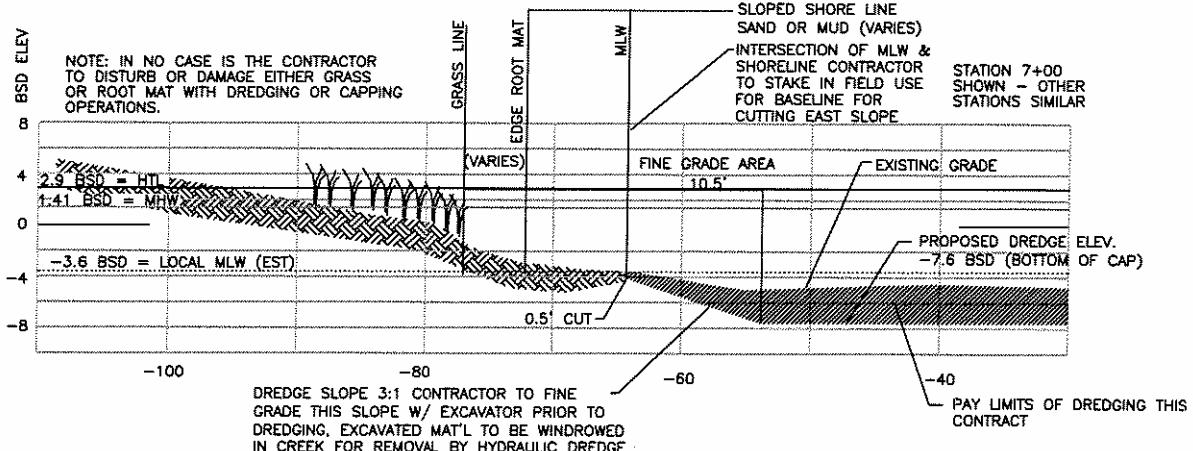
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### TYPICAL SECTIONS

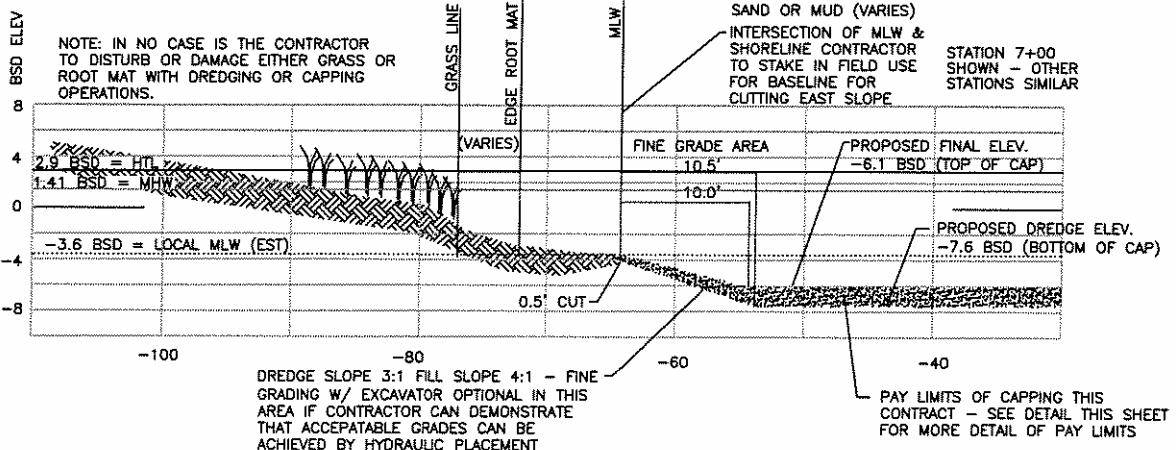
INTERIM DREDGING & CAPPING OF  
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SHEET 9 OF 23  
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### TYPICAL DREDGE & SLOPE SECTION



### TYPICAL DREDGING



### TYPICAL CAPPING

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22 SAW MILL RIVER RD.,  
HAWTHORNE, NY 10532

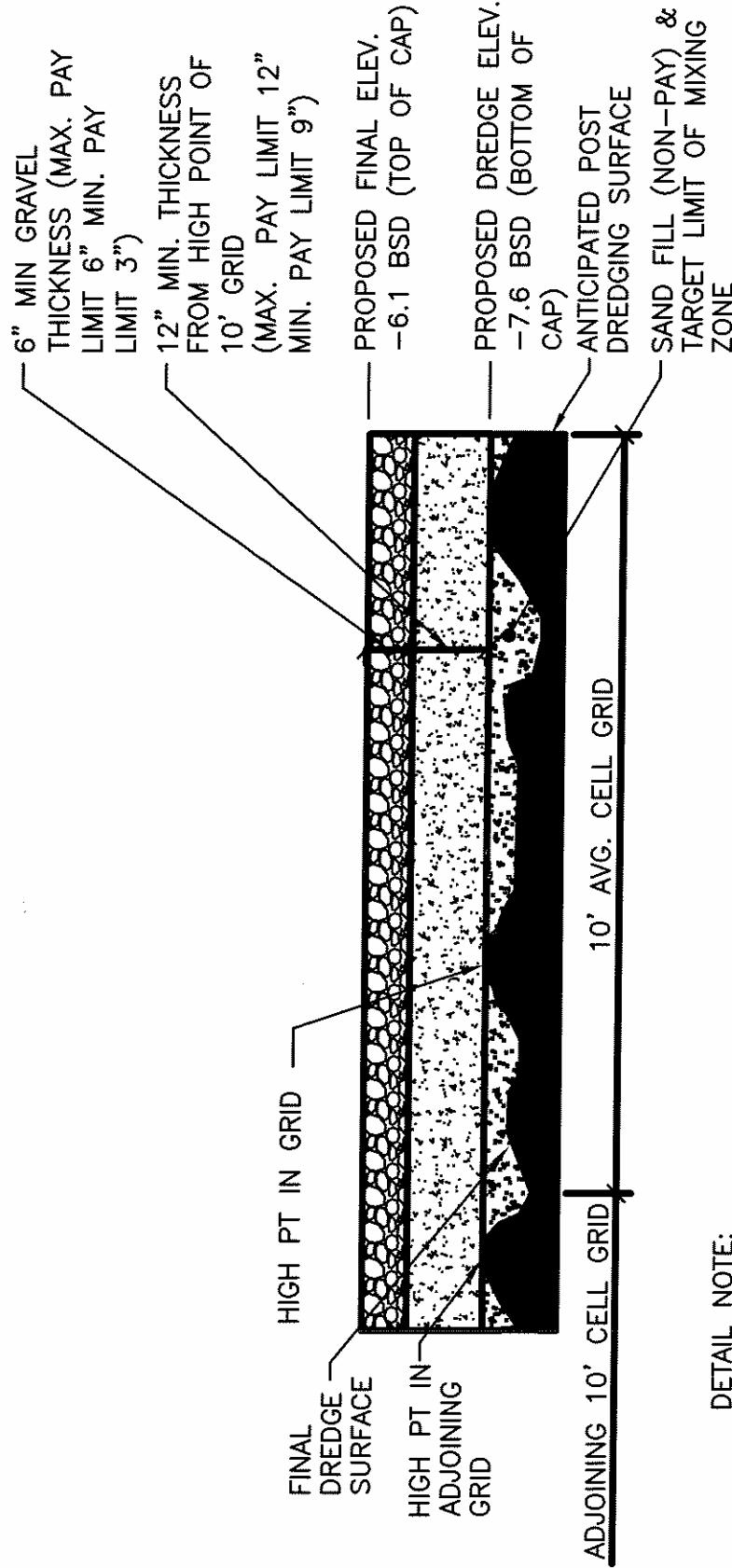
### TYPICAL SECTIONS

GRAPHIC SCALE



1INCH=15 FEET

INTERIM DREDGING & CAPPING OF CSO SEDIMENTS  
AT: HENDRIX STREET CANAL  
SHEET 10 OF 23  
BOROUGH OF BROOKLYN  
DATE: 07/05/07 REV. 1  
08/27/07  
NAN-2007-684-EHA



DETAIL NOTE:

1. HIGH POINT OF DREDGE ELEV. IN ANY CELL DETERMINES ELEV. OF TOP OF CAP FOR THICKNESS MEASUREMENT FOR THAT CELL.
2. HIGH POINT OF ANY 10' X 10' GRID AREA NOT TO EXCEED CONTRACT DEPTH OF -7.6 BSD.
3. AN UNDER PLACEMENT OF UP TO 3" FOR EACH COMPONENT WILL BE ALLOWABLE, SO LONG AS AN UNDER PLACEMENT OF 3" FOR THE ENTIRE CAP IS NOT EXCEEDED, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
4. PAYMENT FOR CAP WILL BE MADE ON A CUBIC YARD BASIS FOR MATERIAL ACTUALLY PLACED IN ACCORDANCE WITH THIS DETAIL AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

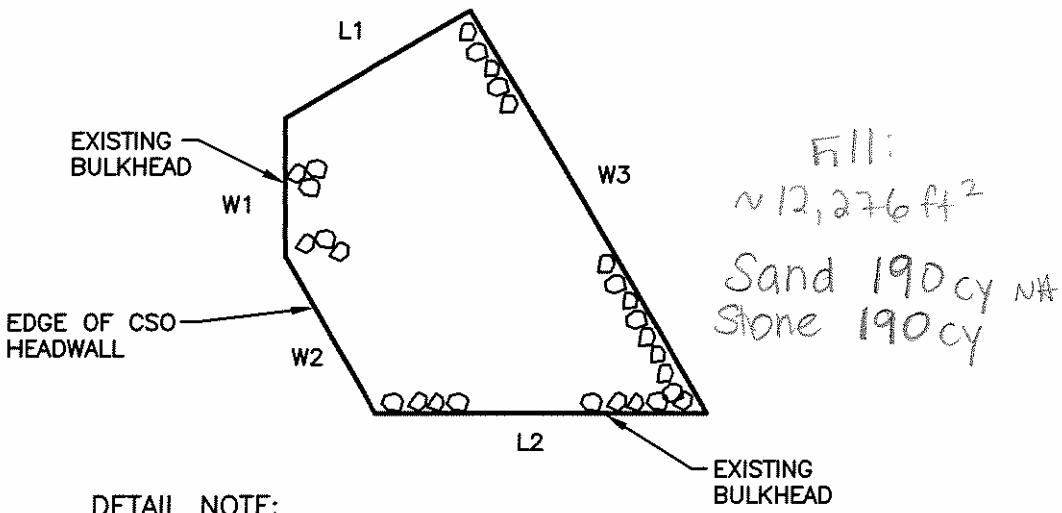
2—COMPONENT CAP DETAIL

NOT TO SCALE

PURPOSE: PROPOSED INTERIM DREDGING TO REMOVE CSO SEDIMENTS DATUM: MEAN LOW WATER = -3.6 BROOKLYN SEWER DATUM = 0.0 MEAN HIGH WATER = 1.41 HIGH TIDE LINE = 2.9 O'BRIEN & GERE ENGINEERS, INC. 22 SAW MILL RIVER RD., HAWTHORNE, NY 10532
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MISCELLANEOUS DETAILS & NOTES

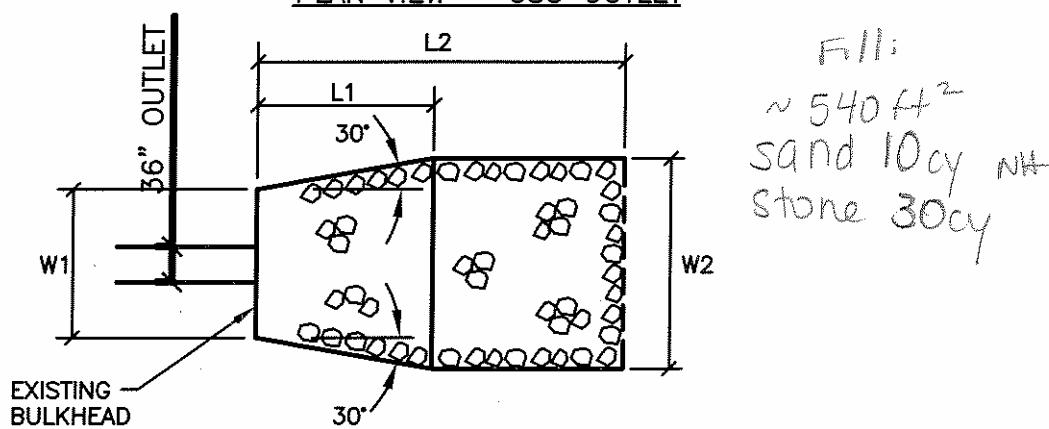
INTERIM DREDGING & CAPPING OF CSO SEDIMENTS AT: HENDRIX STREET CANAL SHEET 11 OF 23 BOROUGH OF BROOKLYN DATE: 07/05/07 REV. 1 08/27/07  NAN-2007-684-EHA
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DETAIL NOTE:

1. IN LIEU OF 2-COMPONENT CAP, CSO OUTLET APRON SHALL BE PLACED ON 12 INCHES OF CRUSHED STONE OVERLAIN BY 9 INCHES OF SAND.

PLAN VIEW - CSO OUTLET



DETAIL NOTE:

1. ALL RIP-RAP SHALL BE PLACED ON 6" OF CRUSHED STONE

PLAN VIEW - 36" OUTLET (Stormwater + groundwater)  
N/A

RIP-RAP APRON DIMENSIONS TABLE

OUTLET	W1	W2	W3	L1	L2	THICKNESS	CLASS
CSO	39'	52'	132'	60'	93'	9"	GABION MATTRESS, ARTICULATED CONCRETE MATTRESS, OR EQUAL
36"	9'	30'	NA	9'	18'	18"	LIGHT RIP-RAP (D50=6 INCH DIA. STONE)

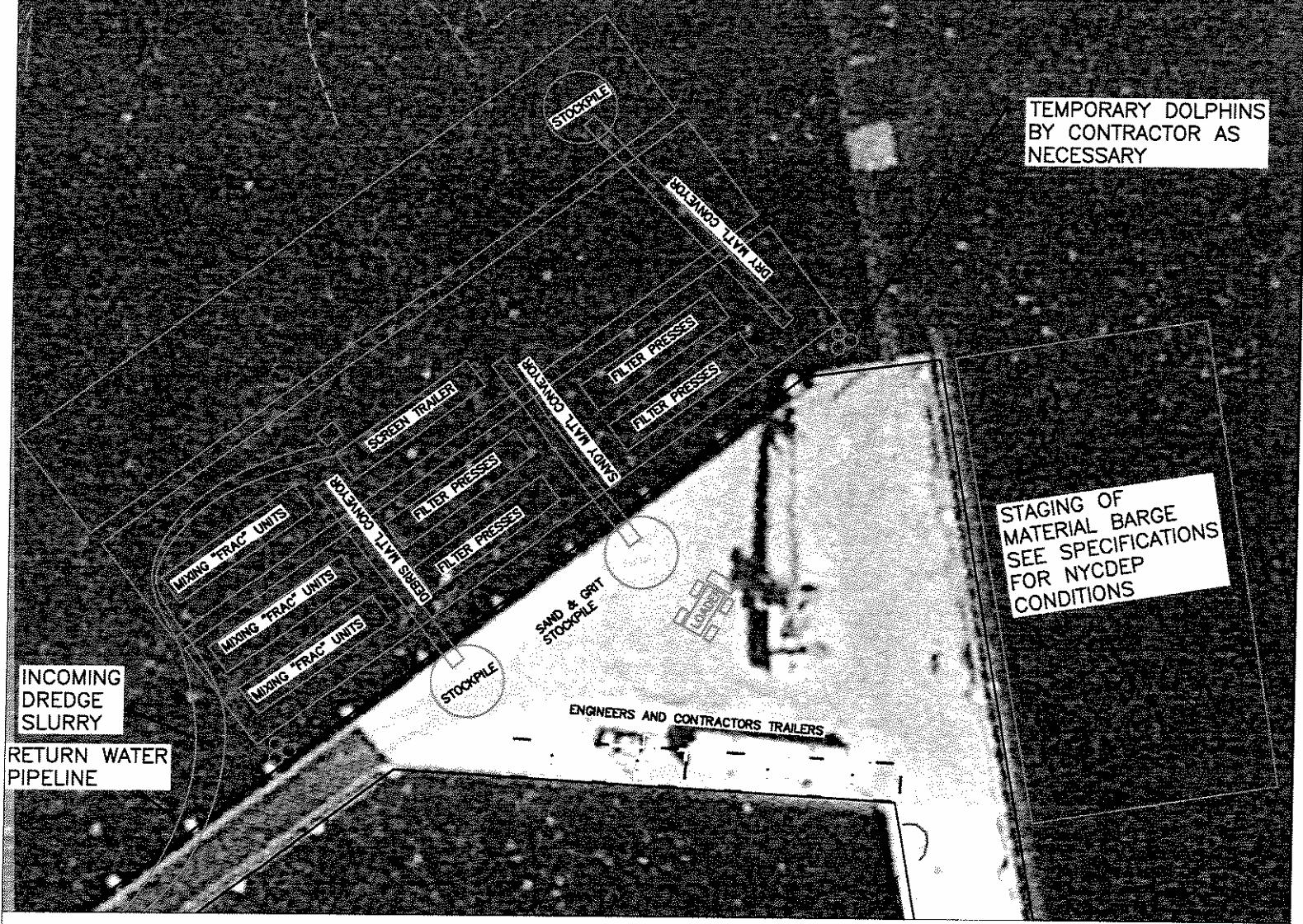
TYPICAL RIP-RAP APRON DETAIL

NOT TO SCALE

PURPOSE: PROPOSED INTERIM DREDGING TO REMOVE CSO SEDIMENTS  
DATUM: MEAN LOW WATER = -3.6  
BROOKLYN SEWER DATUM = 0.0  
MEAN HIGH WATER = 1.41  
HIGH TIDE LINE = 2.9  
O'BRIEN & GERE ENGINEERS, INC.  
22 SAW MILL RIVER RD.,  
HAWTHORNE, NY 10532

MISCELLANEOUS DETAILS & NOTES

INTERIM DREDGING & CAPPING OF CSO SEDIMENTS  
AT: HENDRIX STREET CANAL  
SHEET 12 OF 23  
BOROUGH OF BROOKLYN  
DATE: 07/05/07 REV. 1  
08/27/07  
NAN-2007-684-EHA



NOTE:

1. LAYOUT SHOWN IS PROVIDED AS AN EXAMPLE OF MECHANICAL DEWATERING AND SHOULD NOT BE CONSTRUED AS THE LIMIT OF DEWATERING METHODS THAT MAY BE PROPOSED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE THE APPROPRIATE EQUIPMENT AND CONFIGURATION AS REQUIRED TO PERFORM THE WORK BY THE PROPOSED METHOD.

## CONCEPTUAL BARGE-MOUNTED DEWATERING PLANT LAYOUT

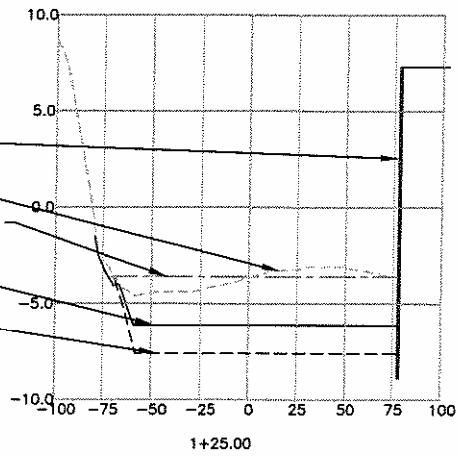
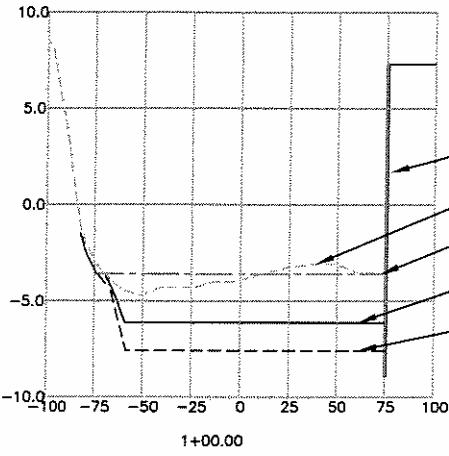
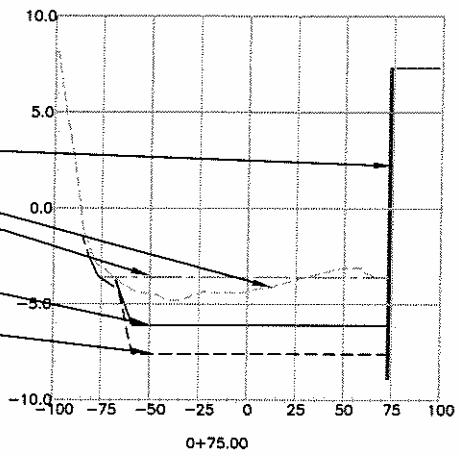
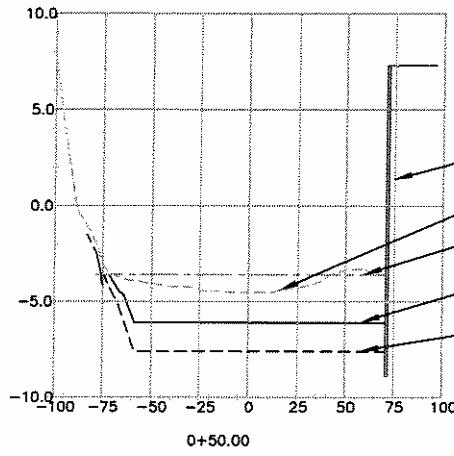
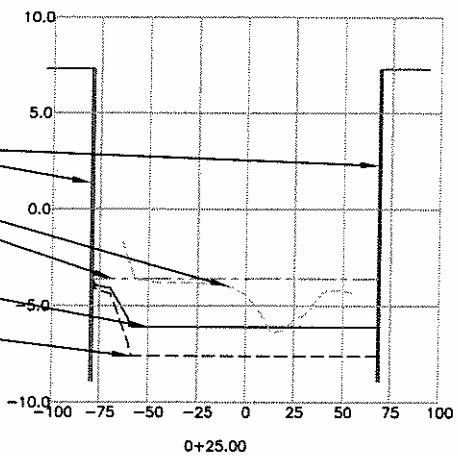
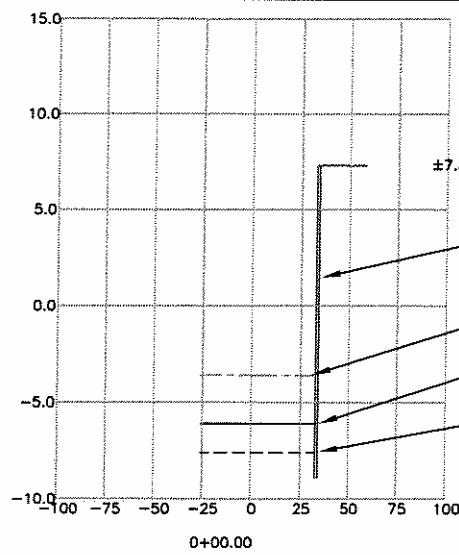
NOT TO SCALE

PURPOSE: PROPOSED INTERIM DREDGING TO REMOVE CSO SEDIMENTS  
DATUM: MEAN LOW WATER = -3.6  
BROOKLYN SEWER DATUM = 0.0  
MEAN HIGH WATER = 1.41  
HIGH TIDE LINE = 2.9  
O'BRIEN & GERE ENGINEERS, INC.  
22 SAW MILL RIVER RD.,  
HAWTHORNE, NY 10532

CONCEPTUAL  
BARGE-MOUNTED  
DEWATERING  
PLANT  
LAYOUT

INTERIM DREDGING & CAPPING OF  
CSO SEDIMENTS  
AT: HENDRIX STREET CANAL  
SHEET 13 OF 23  
BOROUGH OF BROOKLYN  
DATE: 07/05/07 REV. 1  
08/27/07

NAN-2007-684-ETA



PURPOSE: PROPOSED INTERIM  
DREDGING TO REMOVE CSO SEDIMENTS  
DATUM: MEAN LOW WATER = -3.6  
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HIGH TIDE LINE = 2.9  
O'BRIEN & GERE ENGINEERS, INC.  
22 SAW MILL RIVER RD.,  
HAWTHORNE, NY 10532

#### CROSS SECTIONS

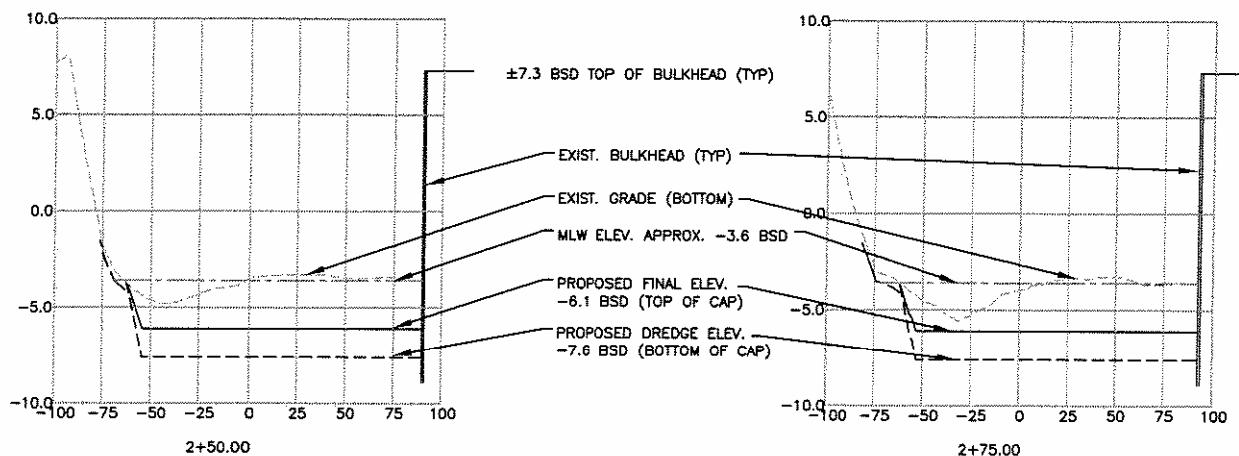
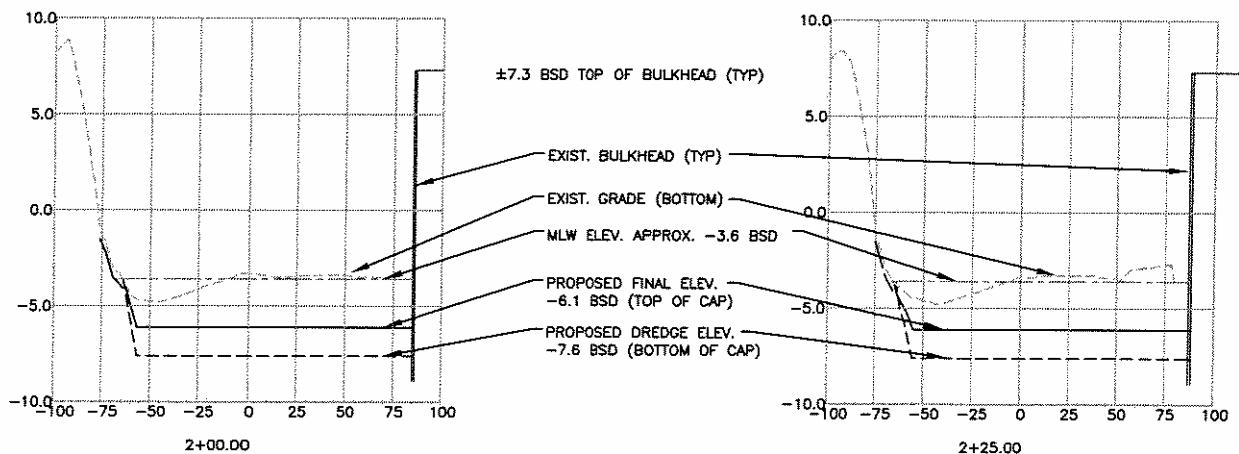
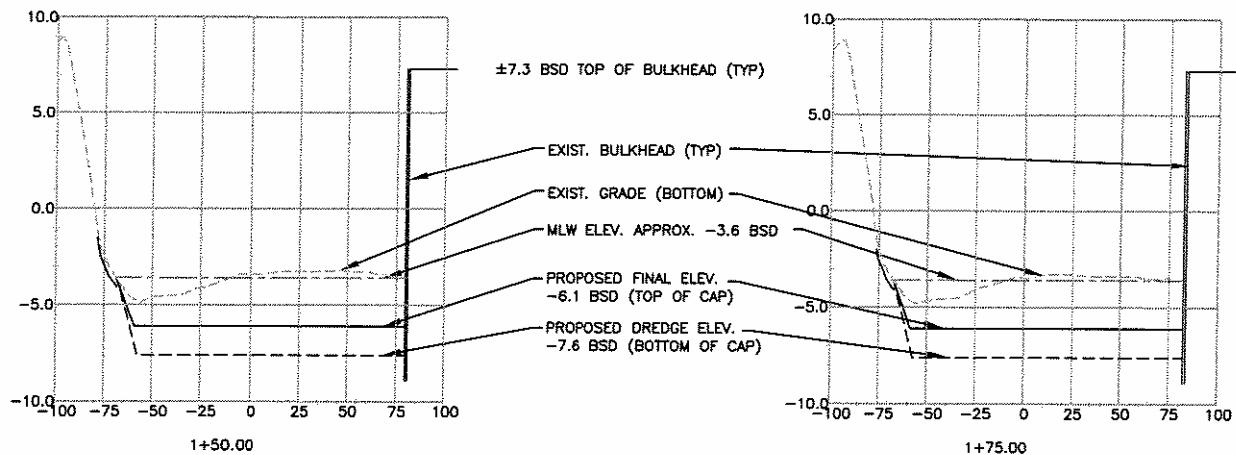
GRAPHIC SCALE

1:100 H ; 1:10 V



1 INCH=100 FEET

INTERIM DREDGING & CAPPING OF  
CSO SEDIMENTS  
AT: HENDRIX STREET CANAL  
SHEET 14 OF 23  
BOROUGH OF BROOKLYN  
DATE: 07/05/07 REV. 1  
08/27/07  
NAN 12007-684-6TA



**2+25.00**

**2+50.00**

**2+75.00**

PURPOSE: PROPOSED INTERIM  
DREDGING TO REMOVE CSO SEDIMENTS  
DATUM: MEAN LOW WATER = -3.6  
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MEAN HIGH WATER = 1.41  
HIGH TIDE LINE = 2.9  
O'BRIEN & GERE ENGINEERS, INC.  
22 SAW MILL RIVER RD.,  
HAWTHORNE, NY 10532

#### CROSS SECTIONS

GRAPHIC SCALE

1:100 H ; 1:10 V



1 INCH=100 FEET

INTERIM DREDGING & CAPPING OF  
CSO SEDIMENTS

AT: HENDRIX STREET CANAL

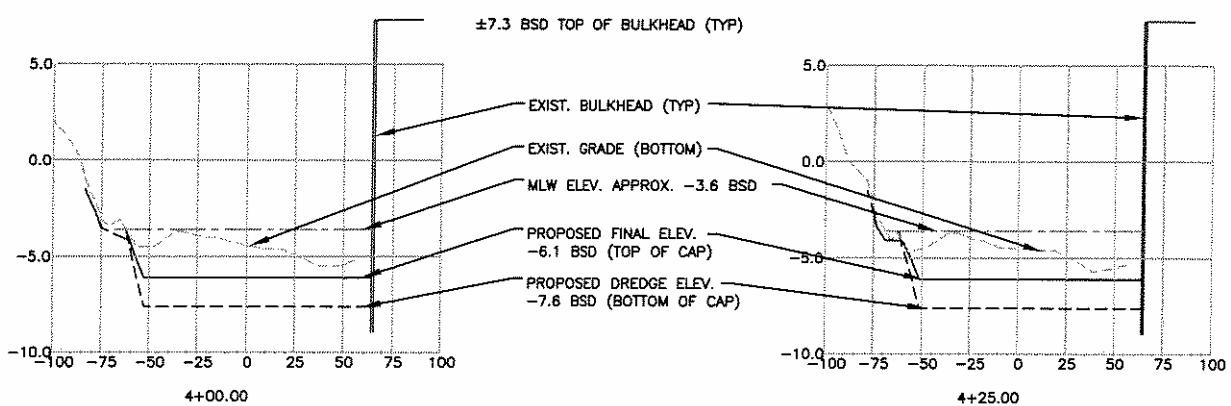
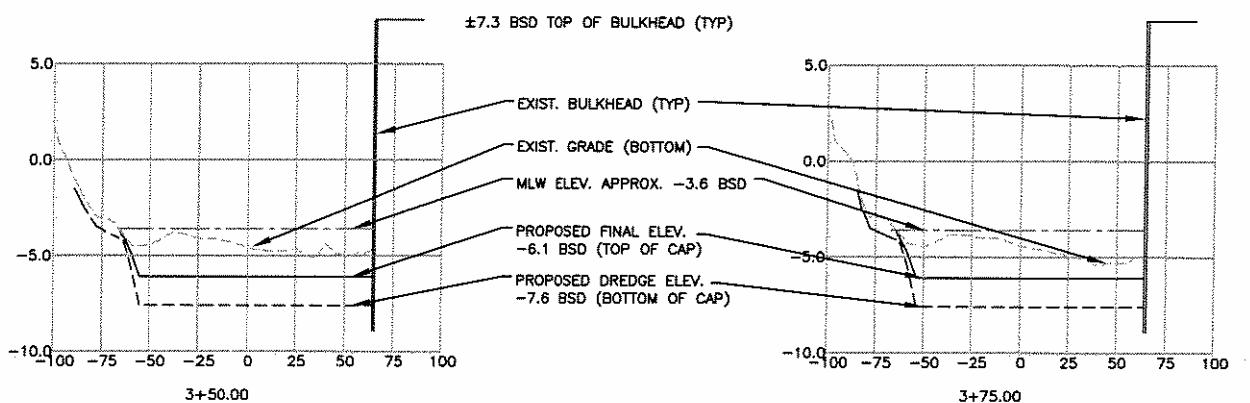
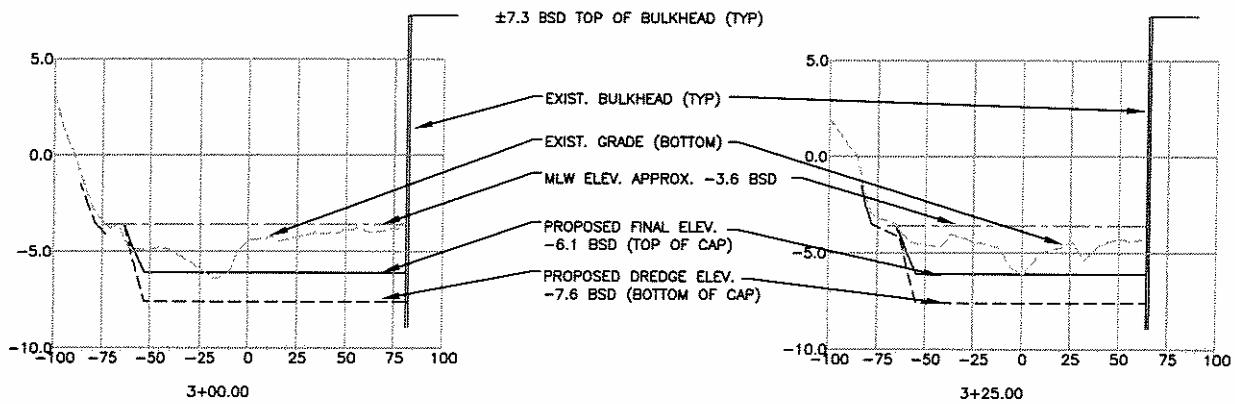
SHEET 15 OF 23

BOROUGH OF BROOKLYN

DATE: 07/05/07 REV. 1

08/27/07

NAN 2007-684-EHA



PURPOSE: PROPOSED INTERIM  
DREDGING TO REMOVE CSO SEDIMENTS  
DATUM: MEAN LOW WATER = -3.6  
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O'BRIEN & GERE ENGINEERS, INC.  
22 SAW MILL RIVER RD.,  
HAWTHORNE, NY 10532

## CROSS SECTIONS

*GRAPHIC SCALE*

1:100 H ; 1:10 V

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## INTERIM DREDGING & CAPPING OF CSO SEDIMENTS

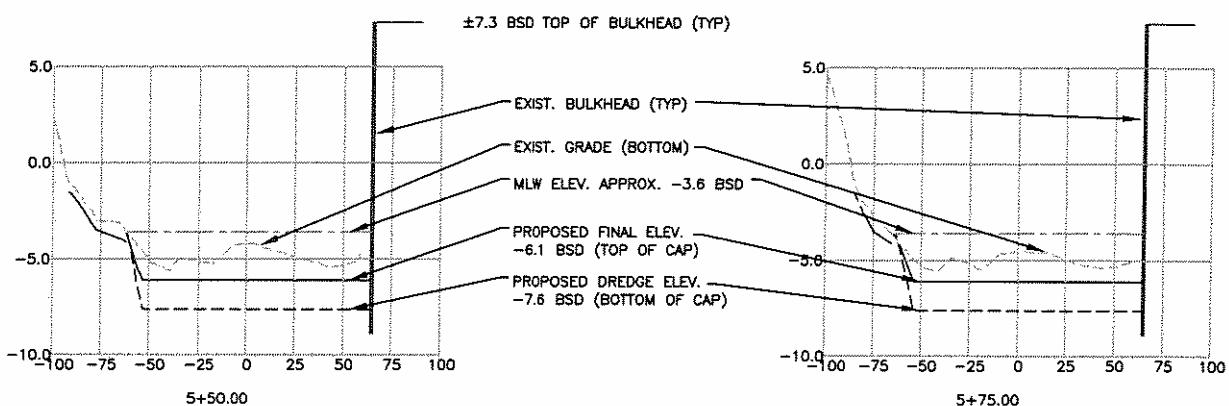
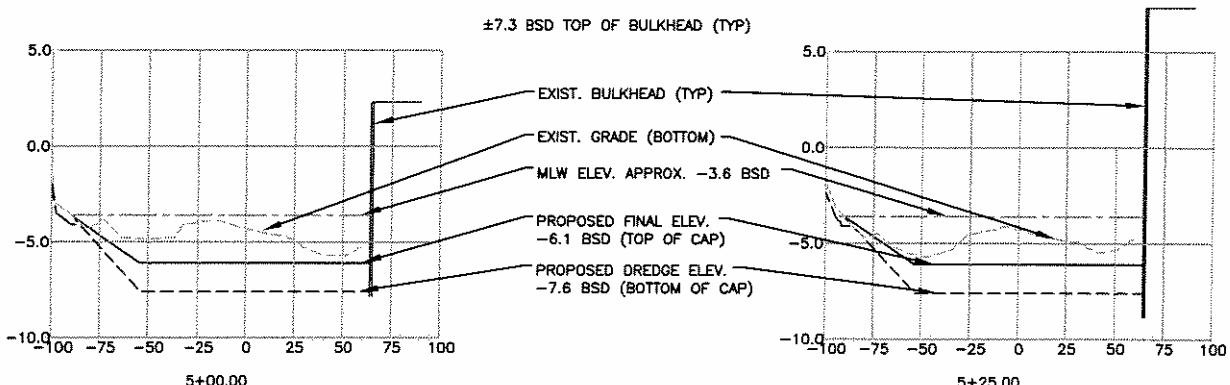
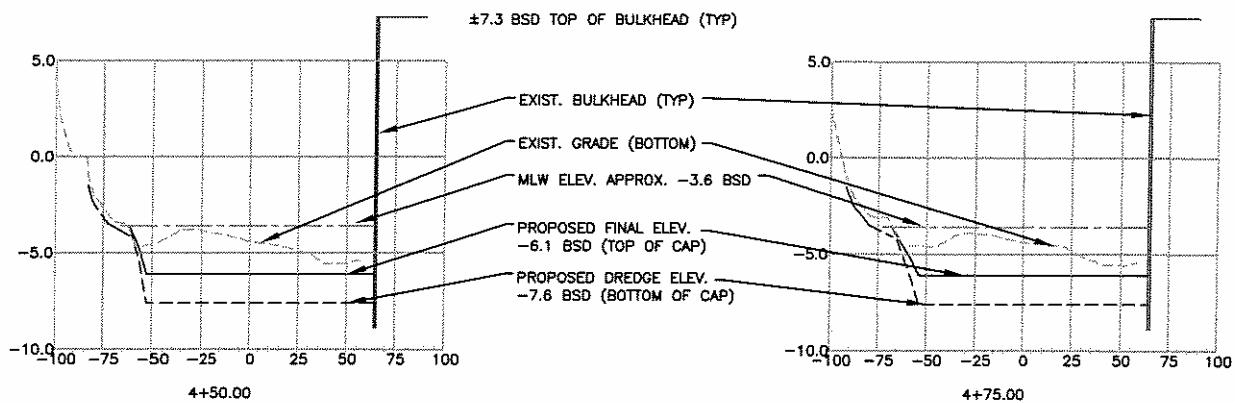
AT: HENDRIX STREET CANAL

SHEET 16 OF 23

BOROUGH OF BROOKLYN

DATE: 07/05/07  
08/23/07

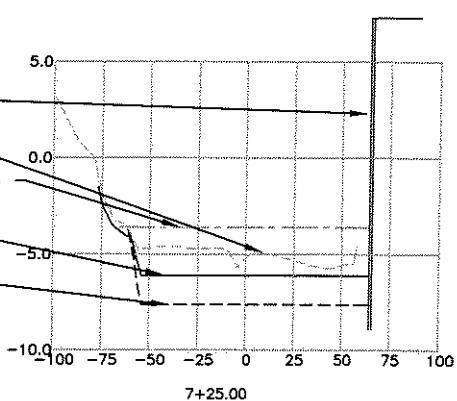
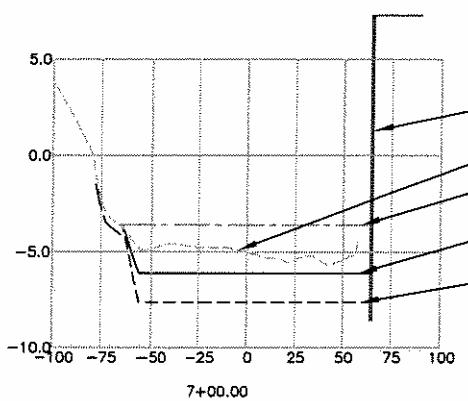
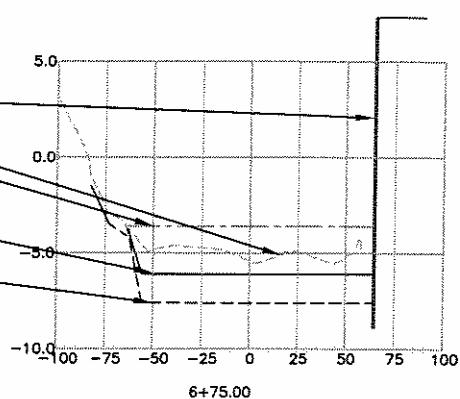
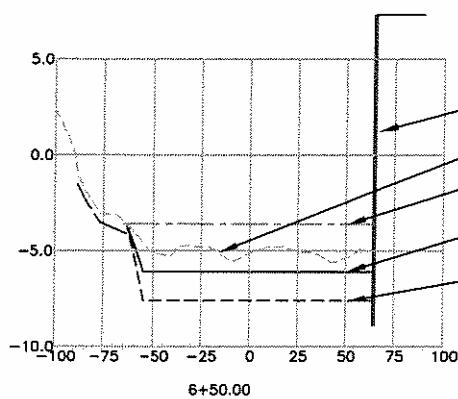
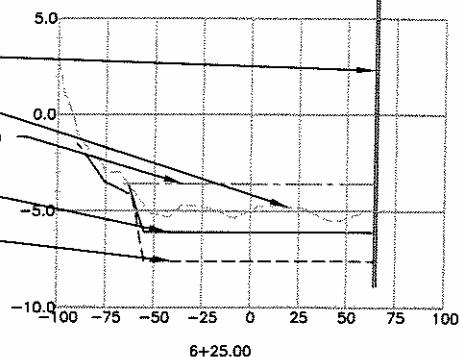
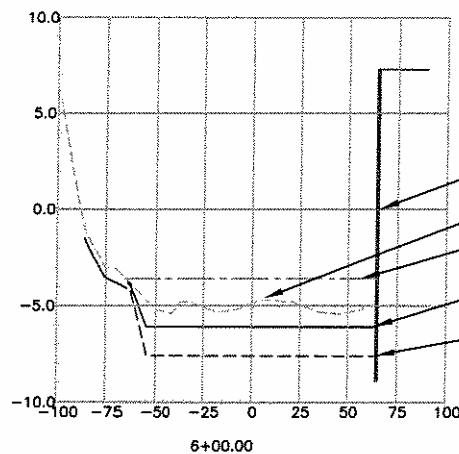
NAN-2007-684-ETTA



PURPOSE: PROPOSED INTERIM  
DREDGING TO REMOVE CSO SEDIMENTS  
DATUM: MEAN LOW WATER = -3.6  
BROOKLYN SEWER DATUM = 0.0  
MEAN HIGH WATER = 1.41  
HIGH TIDE LINE = 2.9  
O'BRIEN & GERE ENGINEERS, INC.  
22 SAW MILL RIVER RD.,  
HAWTHORNE, NY 10532

CROSS SECTIONS  
GRAPHIC SCALE  
1:100 H ; 1:10 V  
0      50      100  
1 INCH=100 FEET

INTERIM DREDGING & CAPPING OF  
CSO SEDIMENTS  
AT: HENDRIX STREET CANAL  
SHEET 17 OF 23  
BOROUGH OF BROOKLYN  
DATE: 07/05/07 REV. 1  
08/27/07  
NAN-2007-684-EHA



PURPOSE: PROPOSED INTERIM  
DREDGING TO REMOVE CSO SEDIMENTS  
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O'BRIEN & GERE ENGINEERS, INC.  
22 SAW MILL RIVER RD.,  
HAWTHORNE, NY 10532

#### CROSS SECTIONS

GRAPHIC SCALE

1:100 H ; 1:10 V



1 INCH=100 FEET

INTERIM DREDGING & CAPPING OF  
CSO SEDIMENTS

AT: HENDRIX STREET CANAL

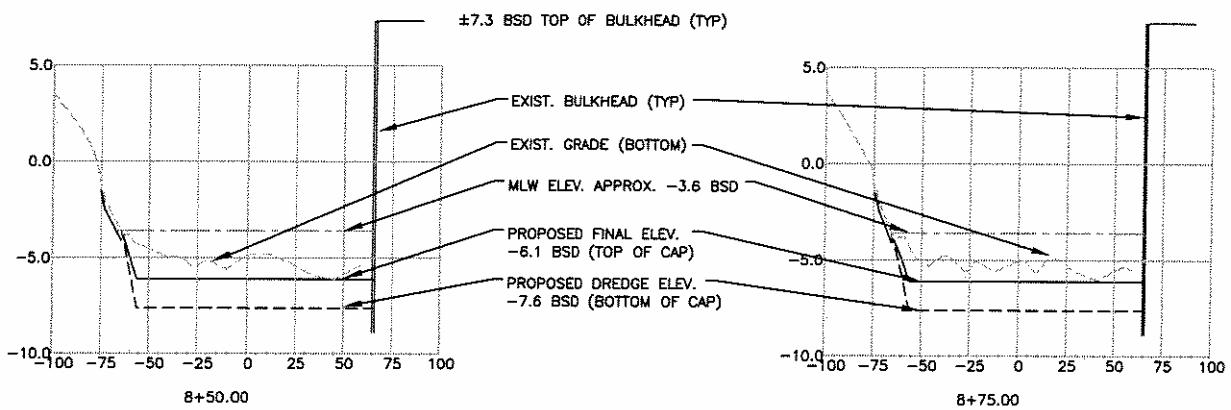
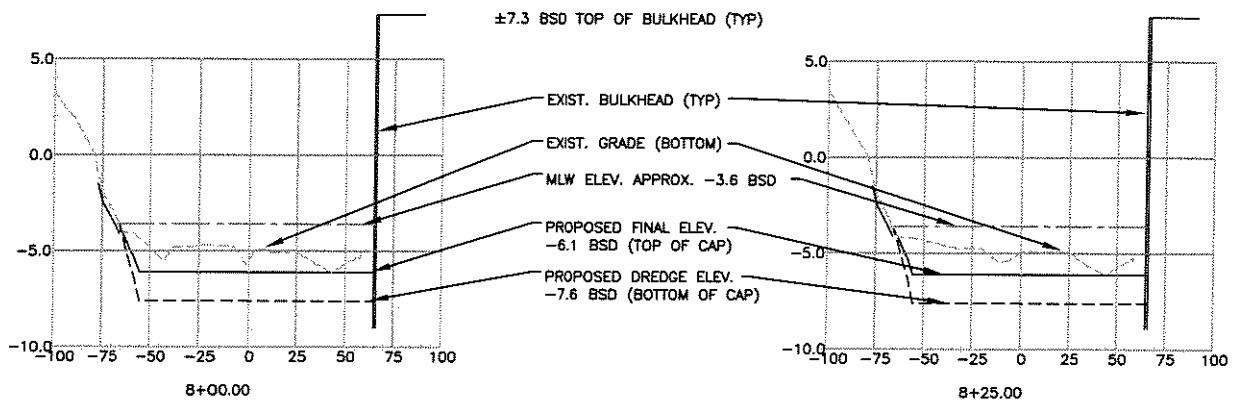
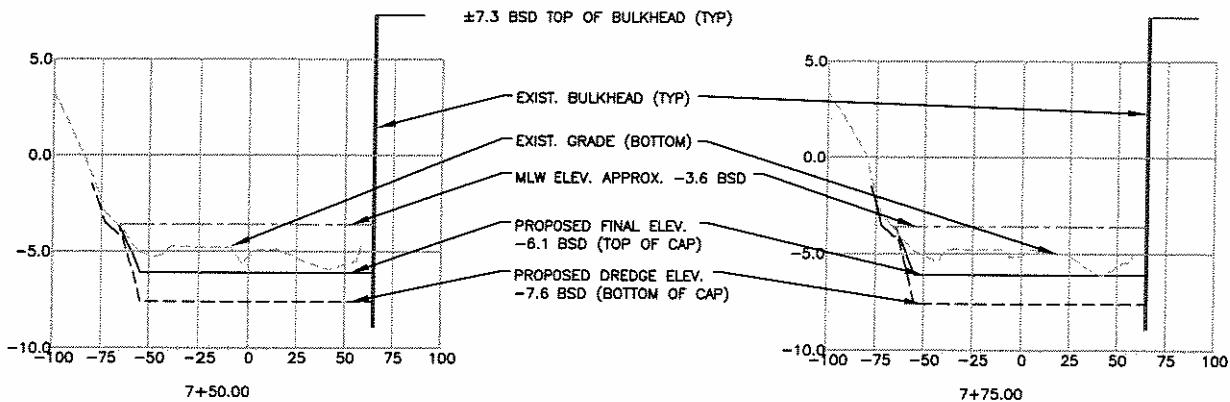
SHEET 18 OF 23

BOROUGH OF BROOKLYN

DATE: 07/05/07 REV. 1

08/27/07

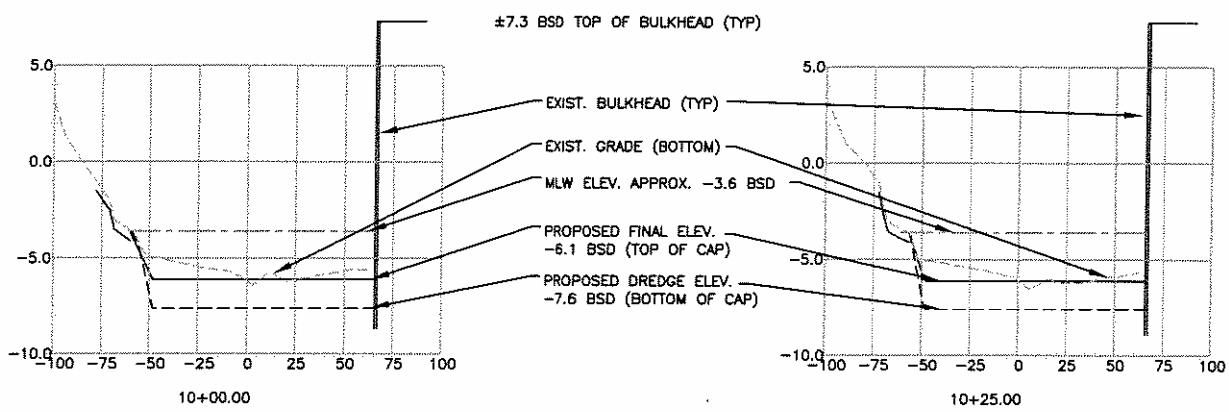
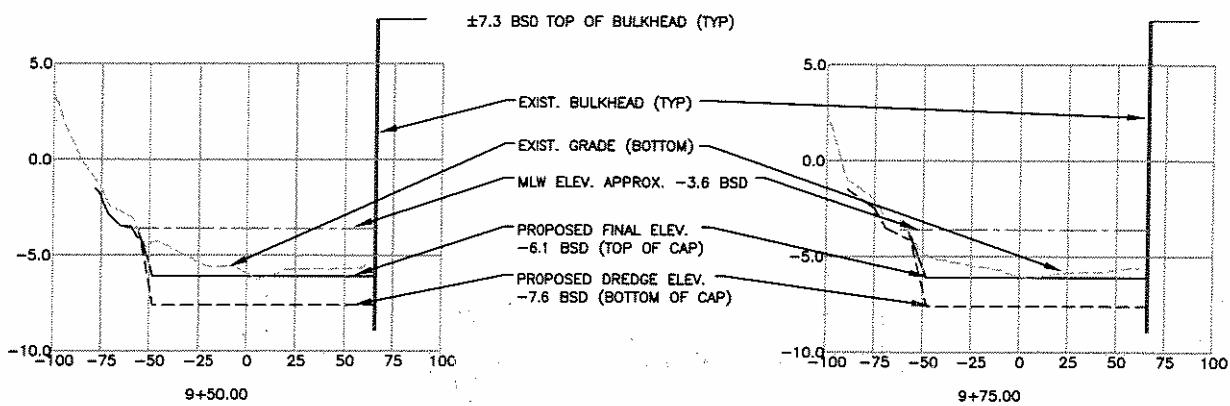
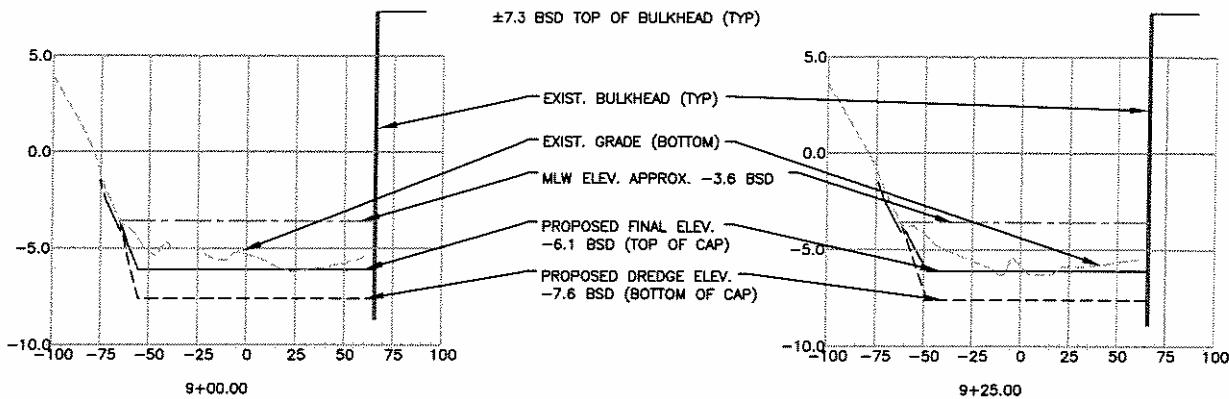
NAN-2007-084-EHT



PURPOSE: PROPOSED INTERIM  
DREDGING TO REMOVE CSO SEDIMENTS  
DATUM: MEAN LOW WATER = -3.6  
BROOKLYN SEWER DATUM = 0.0  
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O'BRIEN & GERE ENGINEERS, INC.  
22 SAW MILL RIVER RD.,  
HAWTHORNE, NY 10532

CROSS SECTIONS  
GRAPHIC SCALE  
1:100 H ; 1:10 V  
  
1 INCH=100 FEET

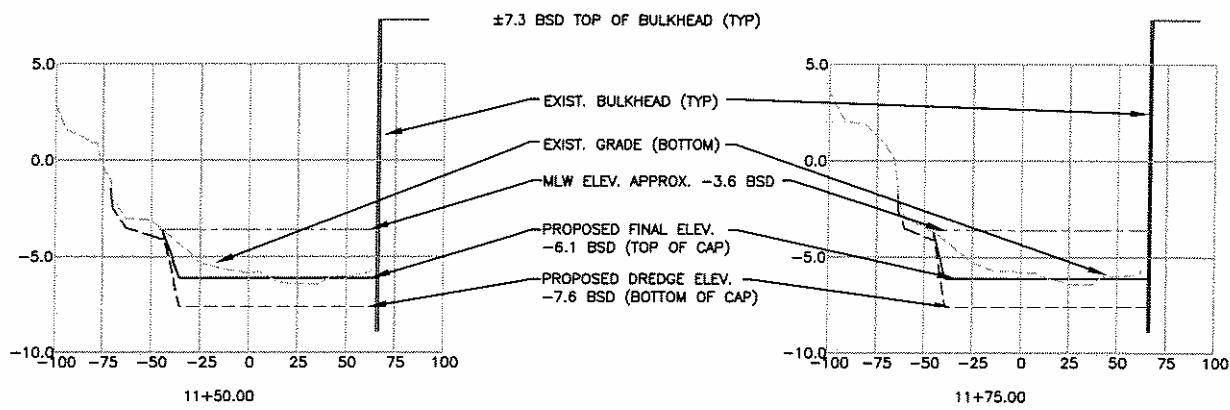
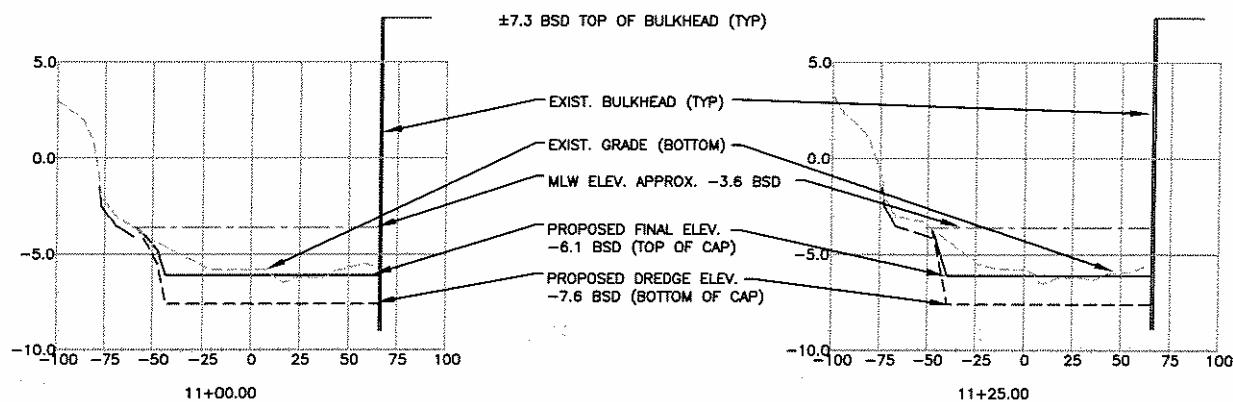
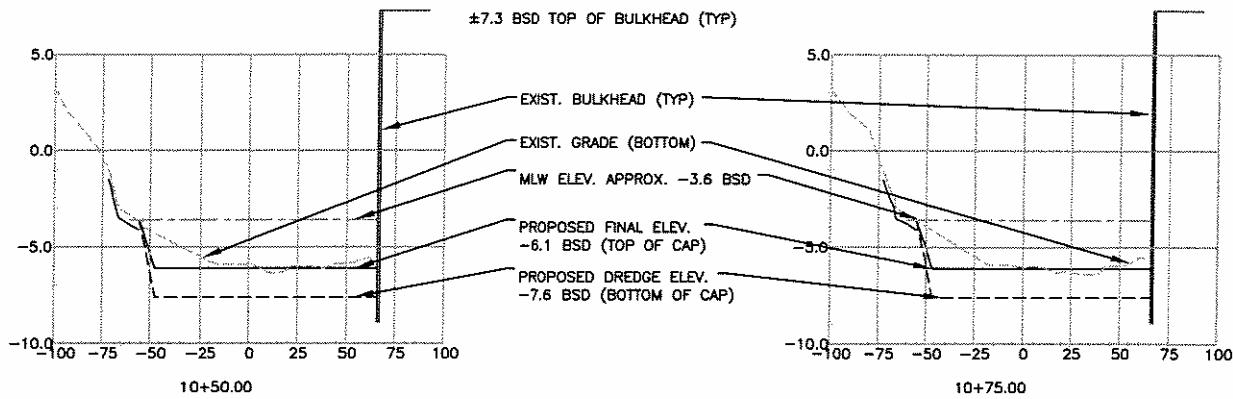
INTERIM DREDGING & CAPPING OF  
CSO SEDIMENTS  
AT: HENDRIX STREET CANAL  
SHEET 19 OF 23  
BOROUGH OF BROOKLYN  
DATE: 07/05/07 REV. 1  
08/27/07  
NAN-2007-684-EHA



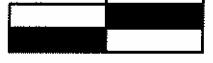
PURPOSE: PROPOSED INTERIM  
DREDGING TO REMOVE CSO SEDIMENTS  
DATUM: MEAN LOW WATER = -3.6  
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22 SAW MILL RIVER RD.,  
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CROSS SECTIONS  
GRAPHIC SCALE  
1:100 H ; 1:10 V  
  
1 INCH=100 FEET

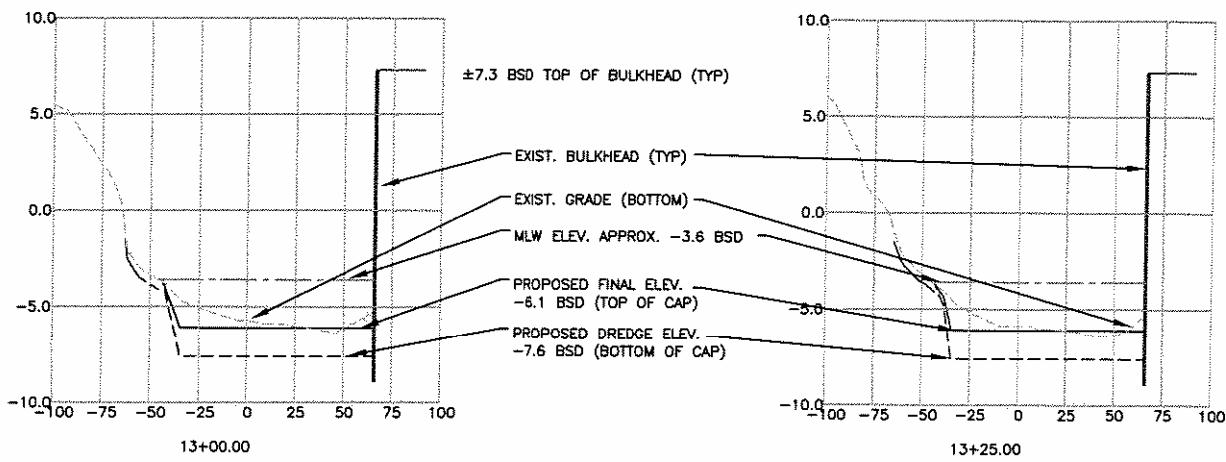
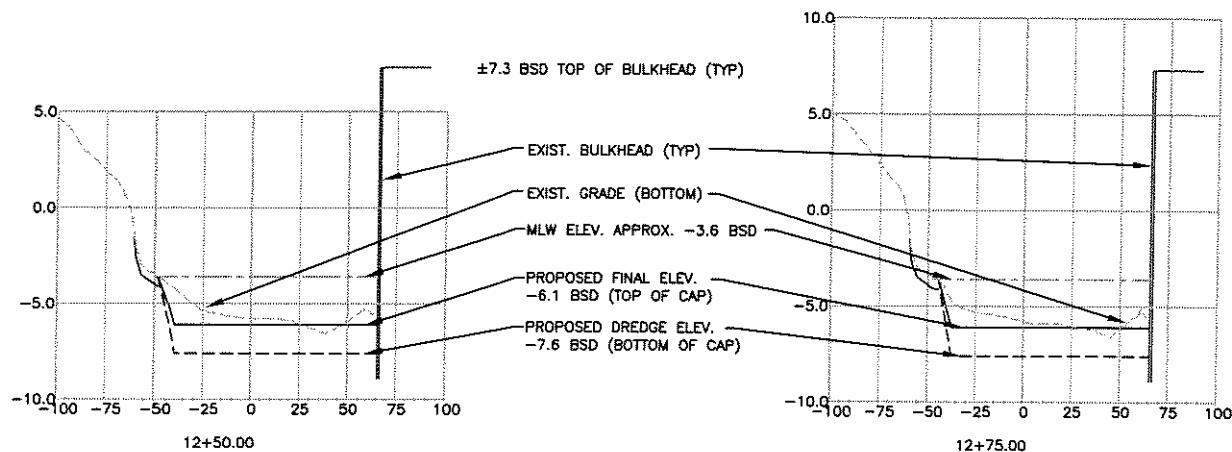
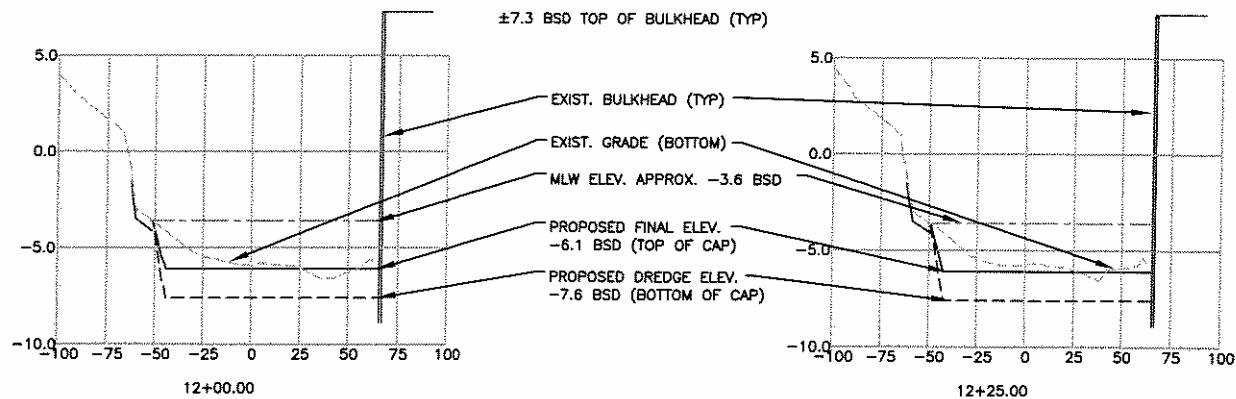
INTERIM DREDGING & CAPPING OF  
CSO SEDIMENTS  
AT: HENDRIX STREET CANAL  
SHEET 20 OF 23  
BOROUGH OF BROOKLYN  
DATE: 07/05/07 REV. 1  
08/27/07  
NAN-2007-084-FITA



PURPOSE: PROPOSED INTERIM  
DREDGING TO REMOVE CSO SEDIMENTS  
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O'BRIEN & GERE ENGINEERS, INC.  
22 SAW MILL RIVER RD.,  
HAWTHORNE, NY 10532

CROSS SECTIONS  
GRAPHIC SCALE  
1:100 H ; 1:10 V  
  
1 INCH=100 FEET

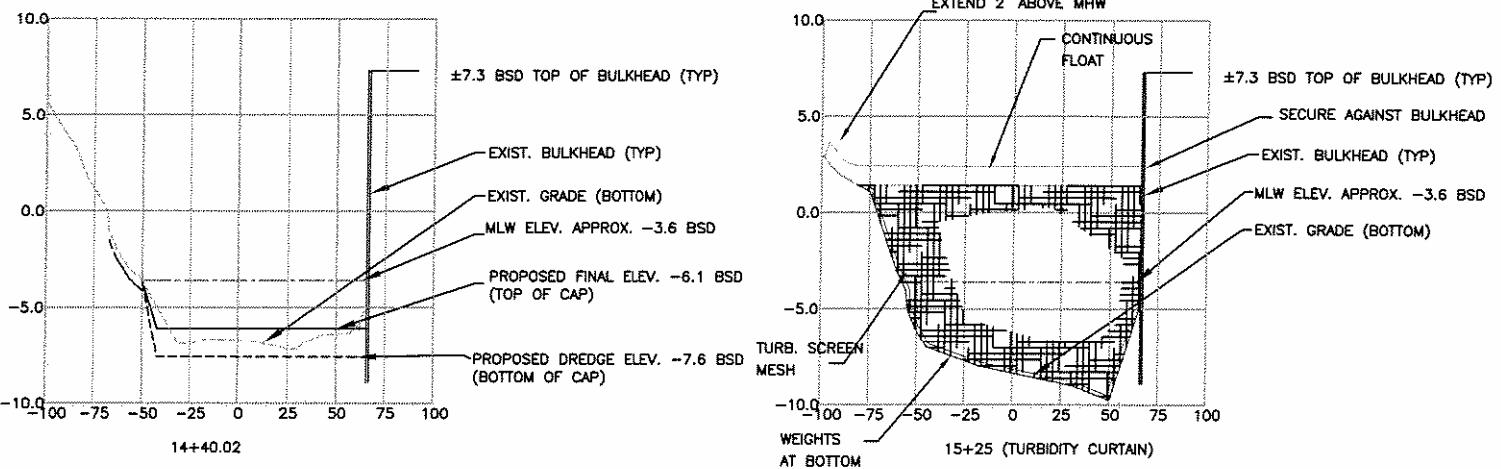
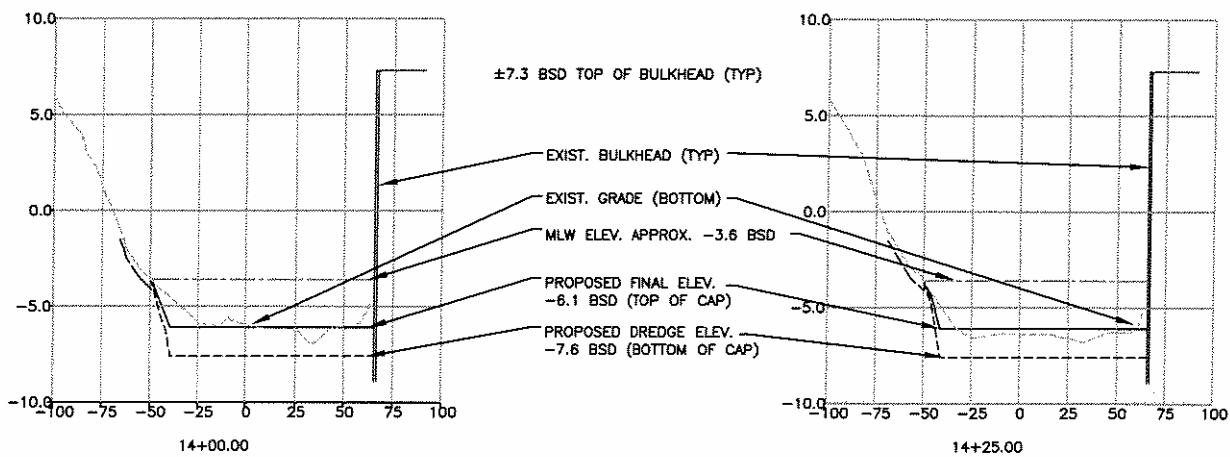
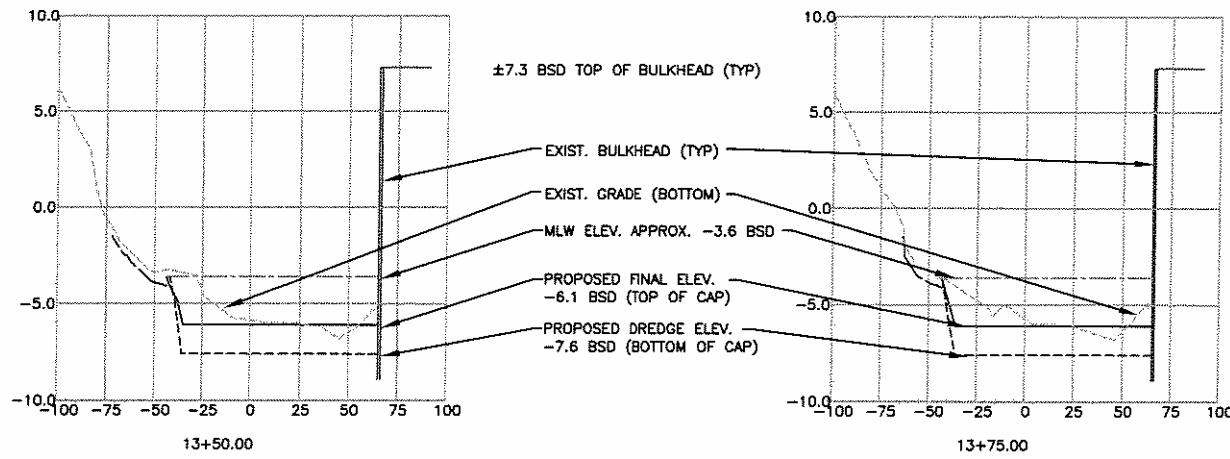
INTERIM DREDGING & CAPPING OF  
CSO SEDIMENTS  
AT: HENDRIX STREET CANAL  
SHEET 21 OF 23  
BOROUGH OF BROOKLYN  
DATE: 07/05/07 REV. 1  
08/27/07  
NAN-2007-684-EHA



PURPOSE: PROPOSED INTERIM  
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O'BRIEN & GERE ENGINEERS, INC.  
22 SAW MILL RIVER RD.,  
HAWTHORNE, NY 10532

CROSS SECTIONS  
GRAPHIC SCALE  
1:100 H ; 1:10 V  
0      50      100  
1 INCH=100 FEET

INTERIM DREDGING & CAPPING OF  
CSO SEDIMENTS  
AT: HENDRIX STREET CANAL  
SHEET 22 OF 23  
BOROUGH OF BROOKLYN  
DATE: 07/05/07 REV. 1  
08/27/07  
NAN-2007-084-64A



PURPOSE: PROPOSED INTERIM  
DREDGING TO REMOVE CSO SEDIMENTS  
DATUM: MEAN LOW WATER = -3.6  
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22 SAW MILL RIVER RD.,  
HAWTHORNE, NY 10532

CROSS SECTIONS  
GRAPHIC SCALE  
1:100 H ; 1:10 V  
0 50 100  
1 INCH=100 FEET

INTERIM DREDGING & CAPPING OF  
CSO SEDIMENTS  
AT: HENDRIX STREET CANAL  
SHEET 23 OF 23  
BOROUGH OF BROOKLYN  
DATE: 07/05/07 REV. 1  
08/27/07  
NAN-2007-684-EHA