FILE NAME

 $"Application. VCP. v00615.2004-10-25. Application_VCP. pdf"$

NOTE

- Contains folded images. Images must be copied in their entirety.
- Images may contain color.
- Documents must be returned in the same arrangement in which they were received.

Please return electronic copies to Sally Dewes

New York State Department of Environmental Conservation Notification of Availability for Review



To

GEORGE D HYDE THOMAS GIBBONS

From

KATHRYN D MCGUCKIN

Send Date

October 20, 2004

NYSDEC REGION 2 HEADQUARTERS Reply By

November 01, 2004

LONG ISLAND CITY NY 11101 5407

Application Id

2-6401-00280/00002

Batch ID

940316

SPDES ID

Mined Land ID

Solid Waste ID

Permits Applied

1 - Article 25 Tidal Wetlands

1 - Section 401 - Clean Water Act Water Quality Certification

Applicant/Owner PORT AUTHORITY OF NEW YORK & NEW JERSEY

19867

Facility Name

PORT IVORY

County

RICHMOND COUNTY

NYTM-E:

Town STATEN ISLAND NYTM-N:

Description

Intermodal Facilty

Sender Comments

George:

The Applicant needs a SPDES General Permit for Construction Activities. They have submitted their NOITT to Albany and have sent the SWPPP to us along with their other application materials. Please review the SWPPP and let me know if it is acceptable. I also need to know whether the facility will need a SPDES Industrial Permit.

The attached application os for a facility (Port Ivory) that is enrolled in DEC's Voluntary Clean-Up Program. Dan Walsh suggested that you would be the person to review the application for consistency with the VCP program.

Thank you both for your time and expertise. Please email your comments/questions to me by Monday, October 1, 2004.

(name)

	Reviewer Comments / R	ecommendations		E C OCI	E [V ∈ 2004	
			RE	MEDIA	AL BI	JREA	J U B
•	· :					, .	
	Comments continued on back	Comments attach	hed				
Reviewed By							

UPS Delivery

14th Floor SW

September 15, 2004

Mr. John Cryan
Regional Permit Administrator
New York State Department of Environmental Conservation
47-40 21st Street
Long Island City, NY 11101

Re: HHMT-Port Ivory Intermodal Facility (PIIF).

Dear Mr. Cryan:

110

With regard to the referenced matter, the Port Authority of New York and New Jersey herewith submits a "Joint Application for Permit" form and supporting documents for your review. Concurrently, permit and approval application forms are being submitted to the ACOE and the NYSDOS for the project (copies enclosed).

The proposed project involves the construction of a new intermodal facility at Port Ivory, a former Proctor & Gamble manufacturing facility located in the northwest corner of Staten Island. The intermodal facility will provide for the transfer of shipping containers to and from rail cars for distribution to other states in support of the container terminal operations at the Port Authority's Howland Hook Marine Terminal.

The project will be constructed in three phases. Phase 1A at the PIIF site will include five loading/unloading rail tracks, a new paved "tabletop", a bridge over Bridge Creek connecting the CTO with the PIIF, and a "lead track" joining the PIIF with the Staten Island Railroad North Connection, the Chemical Coast Line in New Jersey, and to other linked rail systems. Phase 1B will include two additional loading/unloading rail tracks within the PIIF, tentatively scheduled on or about 2008. Phase 2, anticipates four additional rail tracks within the PIIF, with a projected time frame of 2010+. Permit applications for project elements in the subsequent phases will be submitted within the projected time frames.

Mitigation for project impacts will involve the re-profiling—deepening and widening—of approximately 2,600 feet of Bridge Creek downstream of the Western Avenue Bridge, within Port Authority property, to enhance tidal flow upstream into a degraded wetland site east of Western Avenue.

THE PORT AUTHORITY OF MYS MU

Thank you for your consideration of this matter. Please call me at (973) 565-7564 if you have any questions or require additional information.

Very truly yours,

Raymond J. Kordish

Permits and Governmental Approvals

Environmental Engineering Unit

¿ Enclosures

Cc: S. Zahn, NYSDEC, DMR

M. Vissichelli, ACOE, EPS V. Barr, NYSDOS, CMP

W. Woods, NYCDP, WRP

JOINT APPLICATION FOR PERMIT





New York State United States Army Corps of Engineers

Applicable to agencies and permit categories listed in Item	Please read all instructions on back. Attach additiona	al information as needed. P	'lease pri	nt legibly or type.
1. Check permits applied for:	2. Name of Applicant (Use full name)			Telephone Number (daytime)
NYS Dept. of Environmental Conservation	The Port Authority of New York and	1 New Jersey		973-565-7565
Stream Disturbance (Bed and Banks)	Mailing Address	\ A <i>f</i>		
Navigable Waters (Excavation and Fill)	Two Gateway Center, 14th Floor S\			
Docks, Moorings or Platforms	Post Office		State	Zip. Code
(Construct or Place)	Newark	<u>. </u>	NJ	07102
Dams and Impoundment Structures (Construct, Reconstruct or Repair) Freshwater Wetlands	3. Taxpayer ID (If applicant is not an individual)			
☑ Tidal Wetlands	4. Applicant is a/an: (check as many as apply) Owner Operator Lessee	Bi-State Authority Municipality / Governmen	atal Agai	
Coastal Erosion Control	` · · · · · · · · · · · · · · · · · · ·			
Wild, Scenic and Recreational Rivers	5. If applicant is not the owner, identify owner here - o Owner or Agent/Contact Person Owner	otherwise, you may provide ner 🔽 Agent /Contact Per		Telephone Number (daytime)
401 Water Quality Certification Potable Water Supply	Bernice R. Malione			973-565-7565
Long Island Wells	Mailing Address	-		
Aquatic Vegetation Control	Same as item 2.			
Aquatic Insect Control	Post Office		State	Zip Code
Fish Control				
	Project / Facility Location (mark location on map County: Town/City/Village:	p, see instruction 1a.)	Tay A	Mao Section/ Block /Lot Number:
NYS Office of General Services (State Owned Lands Under Water)	Richmond New York		I d x IV	VIAD Section Block /Lot Number.
Lease, License, Easement or	Location (including Street or Road)			Telephone Number (daytime)
other Real Property Interest	40 Western Avenue			718-981-9693
Utility Easement (pipelines, conduits, cables, etc.)		Codo 7 Nove of Char		
Docks, Moorings or Platforms (Construct or Place)	-	7. Name of Street 303 Bridge Cree		Waterbody (on or near project site hur Kill
Adirondack Park Agency	8. Name of USGS Quad Map:	Location Coor	dinates	·
Freshwater Wetlands Permit		NYTM-E		NYTM-N 4
Wild, Scenic and Recreational Rivers	9. Project Description and Purpose: (Category of		tion/inst	
	replacement; Type of Structure or Activity e.g. bulkher and Quantities; Structure and Work Area Dimensions	ead, dredging, filling, dam, o	dock, tak	
Lake George Park Commission	As part of the Phase 1A development	t of a five-track, inte	ermo	dal facility (rail transfer
Docks (Construct or Place)	of shipping containers) at the Howlan	id Hook Marine Tei	rmina	I Port Ivory site, the
Moorings (Establish)	Port Authority proposes to construct a			
US Army Corps of Engineers	reconstruct two storm water outfalls w			
	Creek. Mitigation for the loss of wetlan			
Section 404 (Waters of the United States)	part of the bed and banks of Bridge C tidal wetlands.	neek to enhance ti	uai iic	ow to on-site, upstream,
Section 10 (Rivers and Harbors Act) Nationwide Permit (s)	tidai wetiands.			
Identify Number(s)	Project details are provided in the end	closed application	docur	ments.
For Agency Use Only:				
DEC APPLICATION NUMBER	·			
	10. Proposed Use: 11. Will Project Occupy	140 5		0. 5.6
US ARMY CORPS OF ENGINEERS	10. Proposed Use: 11. Will Project Occupy State Land? V	Date:		3. Estimated Completion ate:
	Private Public Commercial Yes No	- 1 /////////		9/2006
14. Has Work Begun on Project? (If yes, a explanation of why work was started without		olication Numbers and D	ates:	(If Any)
4C. Millabia Project Popular Additional				
16. Will this Project Require Additional Federal, State, or Local Permits?	Yes No Please List: ACOE, Section	n 10/404; NYSDOS	S, CM	IP Concurrence.
are punishable as a Class A misdemeanor purs of whatever nature, and by whomever suffered, damages and costs of every name and descrip	form and all attachments submitted herewith is true to suant to Section 210.45 of the Penal Law. Further, the arising out of the project described herein and agrees to tion resulting from said project. In addition, Federal Law agrs, or both where an applicant knowingly and willingly out.	applicant accepts full response to indemnify and save harr w, 18 U.S.C., Section 1001 y falsifies, conceals, or cove	onsibility mless the I provide ers up a Francis Chief E	r for all damage, direct or indirect, e State from suits, actions, es for a fine of not more than

Joint Application For Permit – New York State and U.S. Army Corps of Engineers

Additional Text

9. Project Description and Purpose

Introduction

The Port Authority of New York and New Jersey (the Port Authority) is proposing the construction of a new intermodal facility at Port Ivory in Staten Island, New York. Figures 1 on the following page shows the location of the project. The Port Ivory Intermodal Facility (PIIF) will provide for the transfer of shipping containers to and from rail cars for distribution to other states. (See HAR Drawing HA-1.) The intermodal facility will be a support unit for the container terminal operations (CTO) located west of the PIIF, at the Port Authority's Howland Hook Marine Terminal (HHMT).

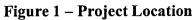
The project site is the former Proctor & Gamble's Ivory Soap manufacturing facility located in the northwest corner of Staten Island. The PIIF site is bound by Western Avenue to the south and east, Bridge Creek to the south and west, and Richmond Terrace to the north. The site once contained over thirty manufacturing buildings, most of which have been demolished by the Port Authority.

Existing Conditions

Bridge Creek is a tidal creek connected to the Arthur Kill in the northwest corner of Staten Island. Historically, Bridge Creek has been impacted by development throughout its length. On the east side, where the PIIF is proposed, fill material was placed in prior years to the edge of the creek resulting in relatively steep banks. In addition to the fill material, riprap was placed along the sides of the creek at a number of locations. The riprap (2"-4" stone) ranges from 2 to 5 feet in height at various locations along its length. Both sides of Bridge Creek, to varying degrees, are vegetated by tidal wetland and upland plants (see application drawing Sheets 1, 3, 5 and 7).

Figure 4 on page 13 of the HAR depicts the wetlands on the site as classified by the New York State Department of Environmental Conservation. Bridge Creek is noted as "coastal shoals, bars, and mudflats" (SM), which changes to "littoral zone" (LZ) north of Richmond Terrace where the creek joins the Arthur Kill. Also noted on this figure is a group of "freshwater wetlands" (FW) located east of the PIIF property line.

There are seven existing, non-functioning, storm water outfalls to Bridge Creek from the PIIF site (see SWPPP, Figure 3).





Scale 50,000:1

The upland portion of the site had been extensively disturbed throughout the 1900's. Fill material was deposited over the site and industrial buildings were erected. Following closure of the Proctor and Gamble Company manufacturing facility and the sale of the property to the Port Authority, the majority of structures were removed and the site was enrolled in the NYSDEC's voluntary clean up program. The buildings remaining are located on the eastern side of the site, adjacent to Western Avenue. The only vegetation on the PIIF site is along both sides of Bridge Creek and scattered landscaped areas in the vicinity of the remaining buildings.

The HAR discusses the wildlife and vegetation species observed or expected to occur on the site. State or federally listed species were not observed, or are known to use the site. Potential impacts to wildlife species are also discussed in the report.

Proposed Action

Phase 1A at the PIIF site will include five loading/unloading rail tracks, a new paved "tabletop", a bridge over Bridge Creek connecting the CTO with the PIIF, and a "lead track" joining the PIIF with the Staten Island Railroad North Connection, the Chemical Coast Line in New Jersey, and rail systems into other states. Phase 1B will include two additional loading/unloading rail tracks within the PIIF, tentatively scheduled on or about 2008. Phase 2, anticipates four additional rail tracks within the PIIF, with a projected time frame of 2010+. [See enclosed "Storm Water Pollution Prevention Plan" (SWPPP) Drawing SK3.] Permit applications for project elements in the subsequent phases will be submitted within the projected time frames.

In Phase 1A, the PIIF will be connected to the existing CTO by a new bridge (approximately 53x120-foot) over Bridge Creek. Figure 3 (S2) in the HAR shows the proposed bridge layout and profile. (Detail also shown on drawing Sheets 5 and 6.)

Stormwater improvements include a new closed storm water system. The proposed storm water system will include a higher level of treatment than currently exists at the site through use of water quality treatment units (vortex chambers) placed before all outfalls to Bridge Creek. During Phase 1A at the proposed PIIF, two outfalls (L and C) will be reconstructed and one new outfall (H-ALT) will be constructed. Three of the remaining outfalls will be reconstructed during one or both of the later phases of the project. The existing outfall pipes are in poor condition and are undersized for the storm water proposed to outlet at these locations. Two existing outfalls will be abandoned. (See drawing Sheets 2, 4 and 8 and SWPPP figures for additional details.)

A lighting system will be installed to facilitate 24-hour activities at the site. A fire protection system will also be installed, with hydrants at key locations throughout the site. Figure 2 (HA-1) on page 8 of the HAR shows the overall site plan for the proposed activities. New York City sewer and water lines are located in Western Avenue and are connected to the existing buildings.

The wetland impacts associated with this project involve: the placement of the easterly bridge abutment within the intertidal zone of Bridge Creek; portions of the headwalls of outfalls L and H-ALT; and grading and placement of backfill material (including riprap) within the tidal zone at the outfalls and at the bridge footings for bed and bank stabilization. The areas of impact to both wetlands and NYSDEC regulated buffer zone are tabulated below. The areas in brackets represent the loss of wetlands (i.e., below MHW) due to the proposed structures and to riprap erosion control measures.

Summary of Wetland Impacts			
Impact Site	Area of Impact (square feet)		
Outfall L	400 (below MHW=100)		
Outfall C	990 (below MHW=225)		
Bridge	5,600 (below MHW=570)		
Outfall H-Alt	900 (below MHW=150)		

Construction of the bridge abutments will require the installation of steel sheet pile cofferdams to allow work to continue throughout the daily tidal cycles. The sheet piles will be cut off at or below the mudline following completion of construction. Riprap will be added for slope and erosion protection as shown on Figure 2 (S2), page 9, of the HAR.

As part of Phase 1A, the Port Authority also proposes to replace and upgrade a section of the "lead track" that will connect the PIIF with the Staten Island Railroad tracks at the southerly end of the project site. This project element will include upgrading the existing storm water drainpipes located at the foot of the embankment leading to the Staten Island Railroad tracks in Arlington Yard. [See enclosed drawing C39 and SWPPP Drawing N1 (1 of 6).] The pipes convey storm water from Mariner's Marsh to the east, under the "lead track", to Bridge Creek to the west.

Mitigation

The loss of tidal wetlands (below MHW elevation 3.18' NGVD 29; 2.08' NAVD 88) due to project features will be mitigated as directed by the NYSDEC. As mitigation, approximately 2,600 feet of Bridge Creek downstream of the Western Avenue Bridge, within Port Authority property, will be re-profiled—deepened (elevation 1.6' NGVD 29; 0.5' NAVD 88) and widened (15'min. at creek bottom)—to enhance tidal flow upstream into a degraded wetland site east of Western Avenue that is being restored by the NYSDEC. Approximately 3,300 cubic yards of creek bed and bank soils will be removed for containment and disposal behind gabions as indicated on the drawings. The bottom of the gabions will be located above MHW. Immediately following the re-profiling, all disturbed areas of the site will be stabilized with riprap, as may be necessary, and replanted with native plants. The set of the mitigation plans is enclosed.

Alternatives to the Proposed Action

Various alternatives were considered for the proposed project and project elements and are discussed below.

No Build Alternative

If the proposed PIIF is not constructed, the CTO would continue to transport containers via trucks to their respective destinations. Without implementation of an intermodal component, truck traffic would increase in response to increased container shipments, adding to congestion and air pollution on area and distant roadways.

Alternative Intermodal Sites

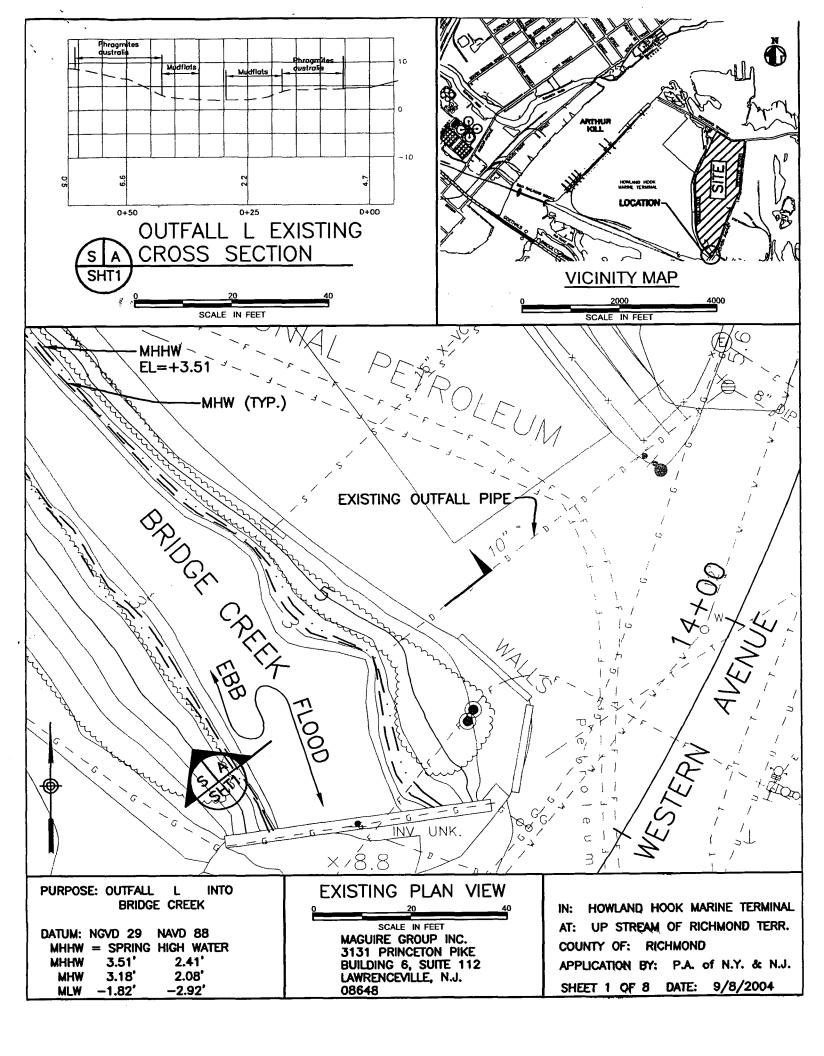
Review of alternative sites for an intermodal facility was simplified because of the requirements of such a facility and the characteristics of the Port Ivory site. The Port Ivory site has rail access to an interstate railroad system, is an industrial site, is adjacent to a viable container ship terminal, has the area required for a multiple rail track layout, has the area need for container transfer vehicle movement, has the area required for the temporary storage of containers waiting for shipment, and the site was available for purchase. These characteristics could not be duplicated on another site within this sector of Staten Island. Therefore, the Port Ivory site was selected for the development of an intermodal facility.

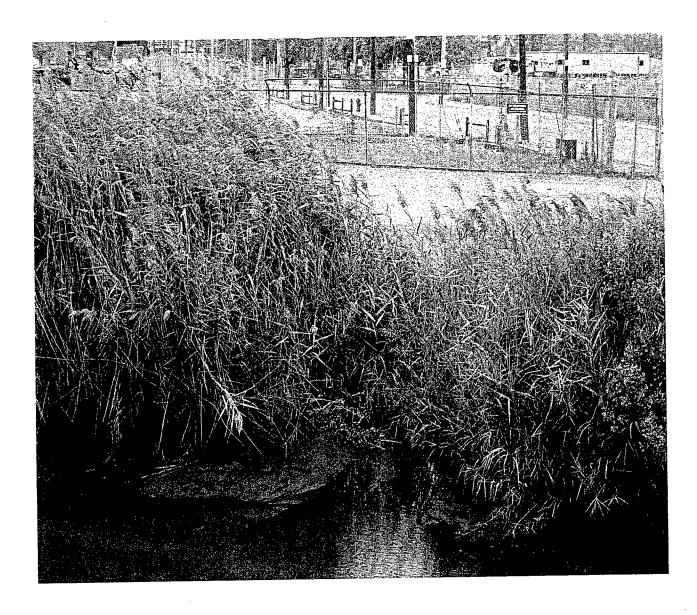
Alternative Bridge Locations

The proposed location for the Bridge Creek crossing was selected for its operational efficiency. The existing CTO has a 30-foot wide transport vehicle lane that bisects the site and runs in a southeasterly direction from the piers at the Arthur Kill to Bridge Creek. This is the CTO's main corridor for specialized vehicles transporting containers between the storage areas of the CTO and ocean-going container vessels. The intent and need is for the proposed bridge to the PIIF to be an extension of this corridor. Containers at the dock, or within the storage yard, will be able to be transferred by the specialized vehicles directly across Bridge Creek and onto waiting rail cars or temporary storage areas. Empty containers will follow the same process in reverse.

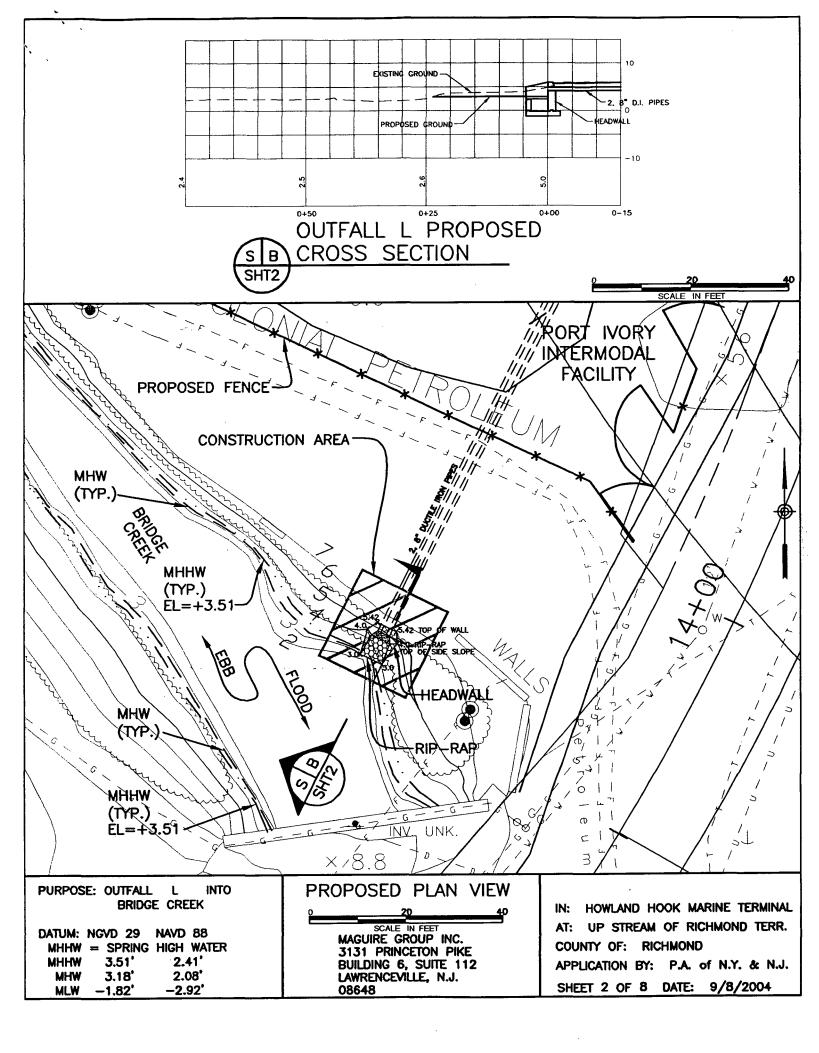
Another factor in the bridge location selection process was operational security throughout the CTO and PIIF. The CTO is segregated in a way that keeps conventional employee and support vehicles separate from arriving and departing container transport trucks. This is done through the use of separate entrances and security gates. Currently there are two separate crossings of Bridge Creek that directly access the CTO. One crossing, off Western Avenue, provides visitor and employee access to the administration building. The second, and northernmost crossing, is along a westerly section of Richmond Terrace recently de-mapped and incorporated into the Port Authority's HHMT

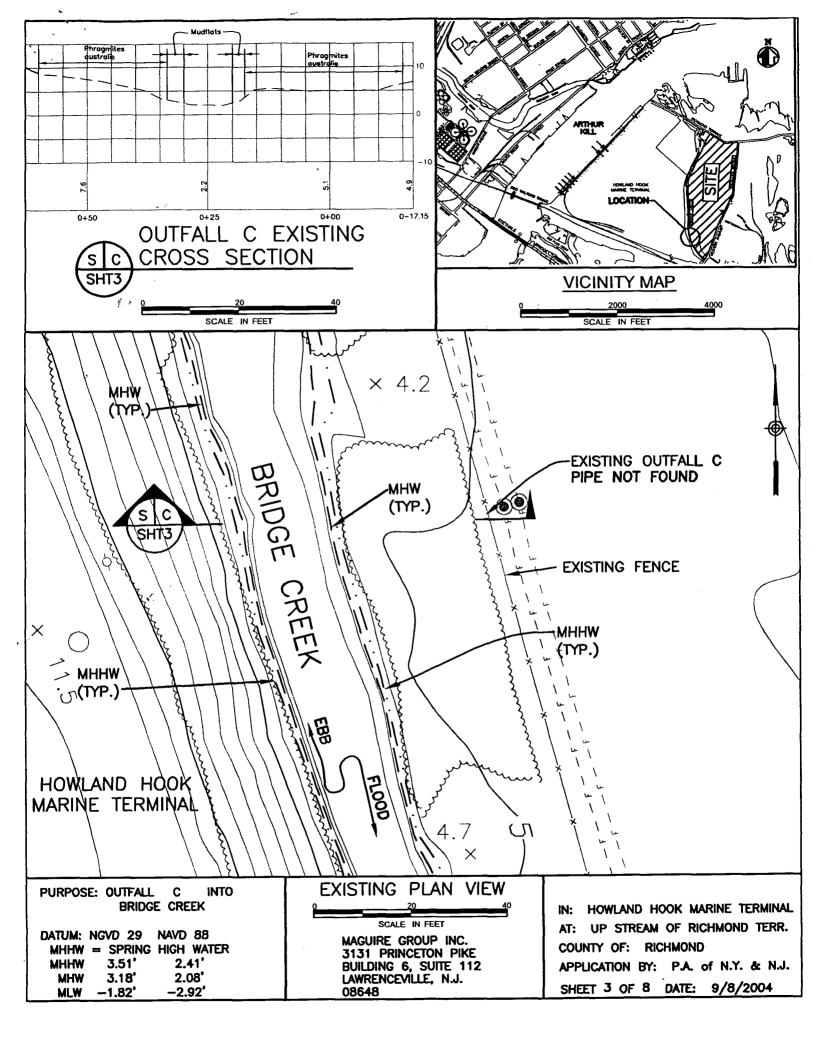
leasehold and used to access trailer chassis storage areas located on PIIF land north of the former city street. This westerly section of street is now gated and access is restricted to facility vehicles. The Richmond Terrace bridge is not designed for use by the specialized container loading and unloading vehicles and is too remote to be an efficient route into the PIIF.

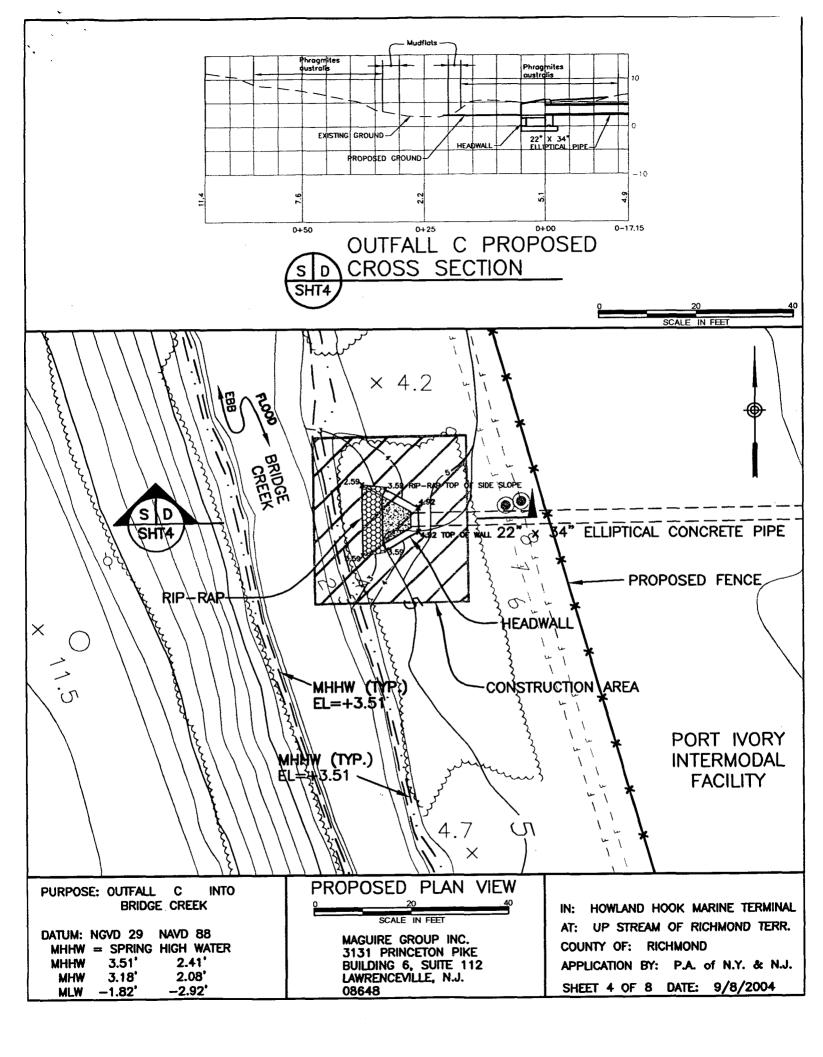


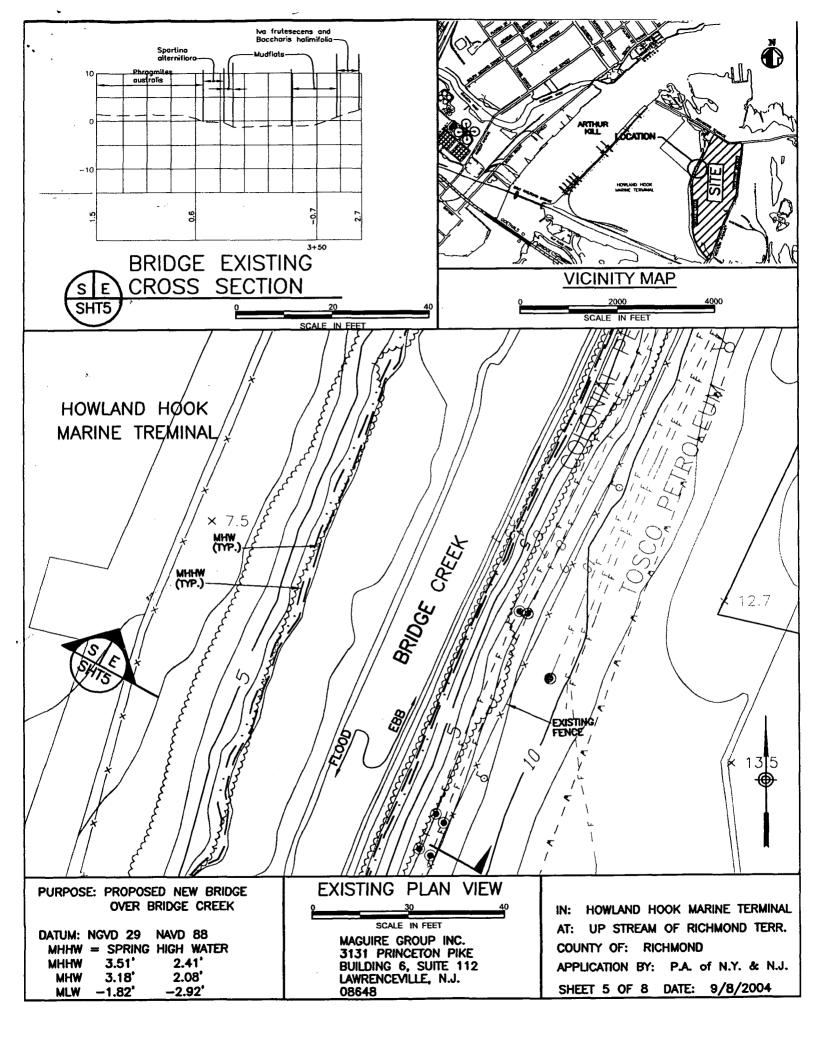


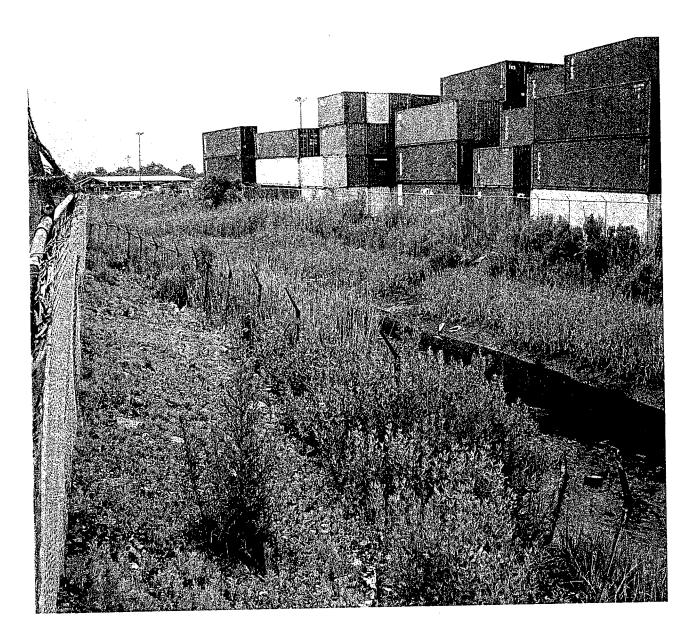
Port Ivory Intermodal Facility. Existing outfall at location "L". View easterly. 9/04.



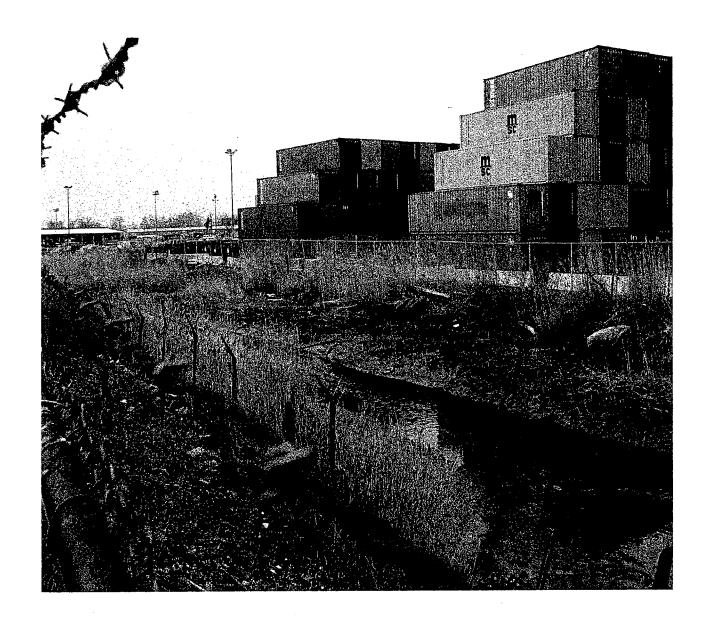




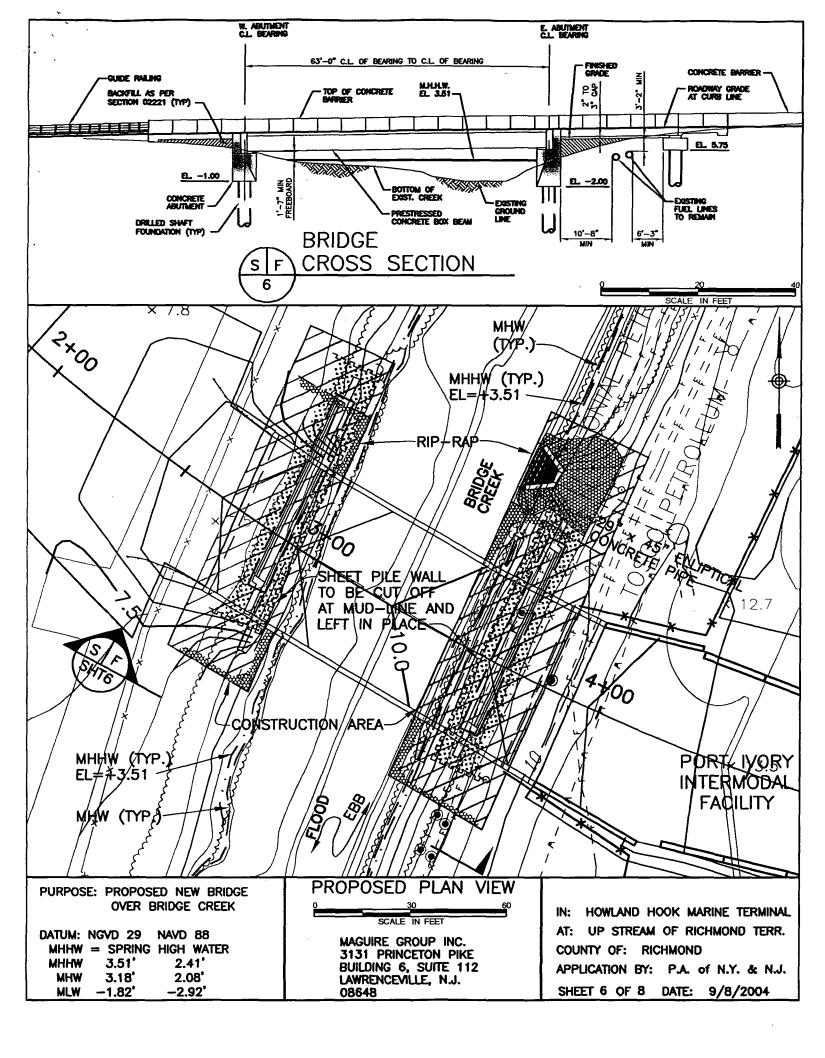


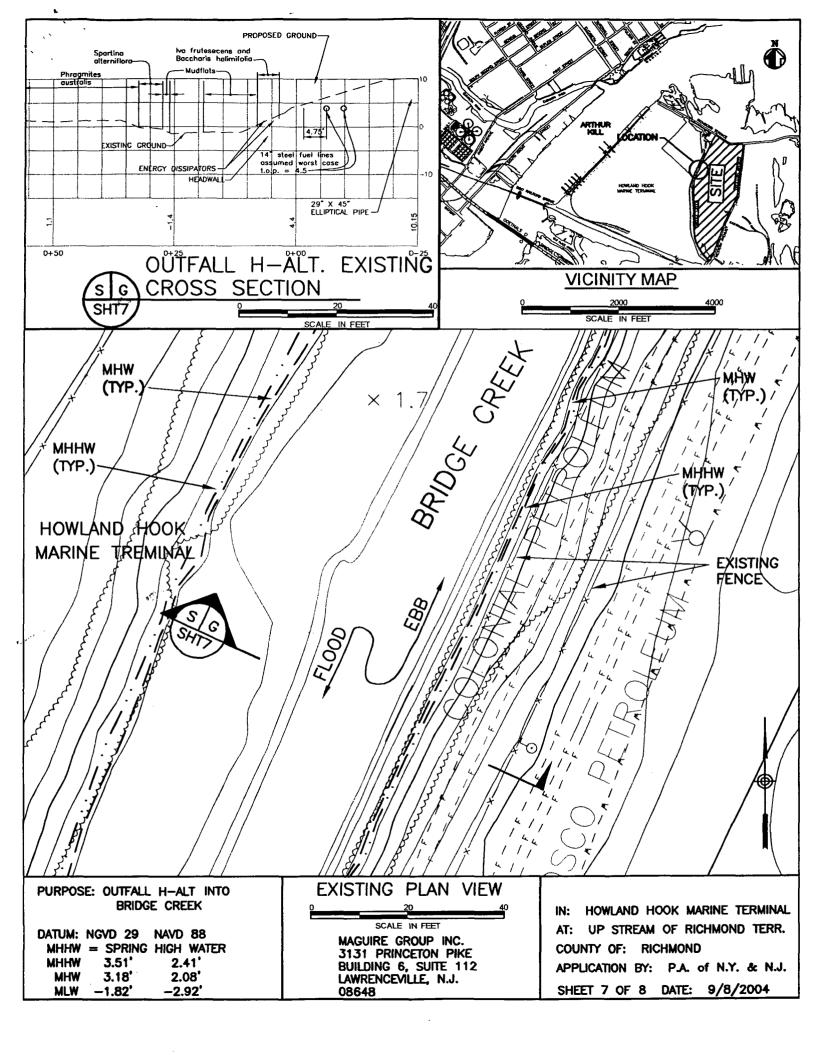


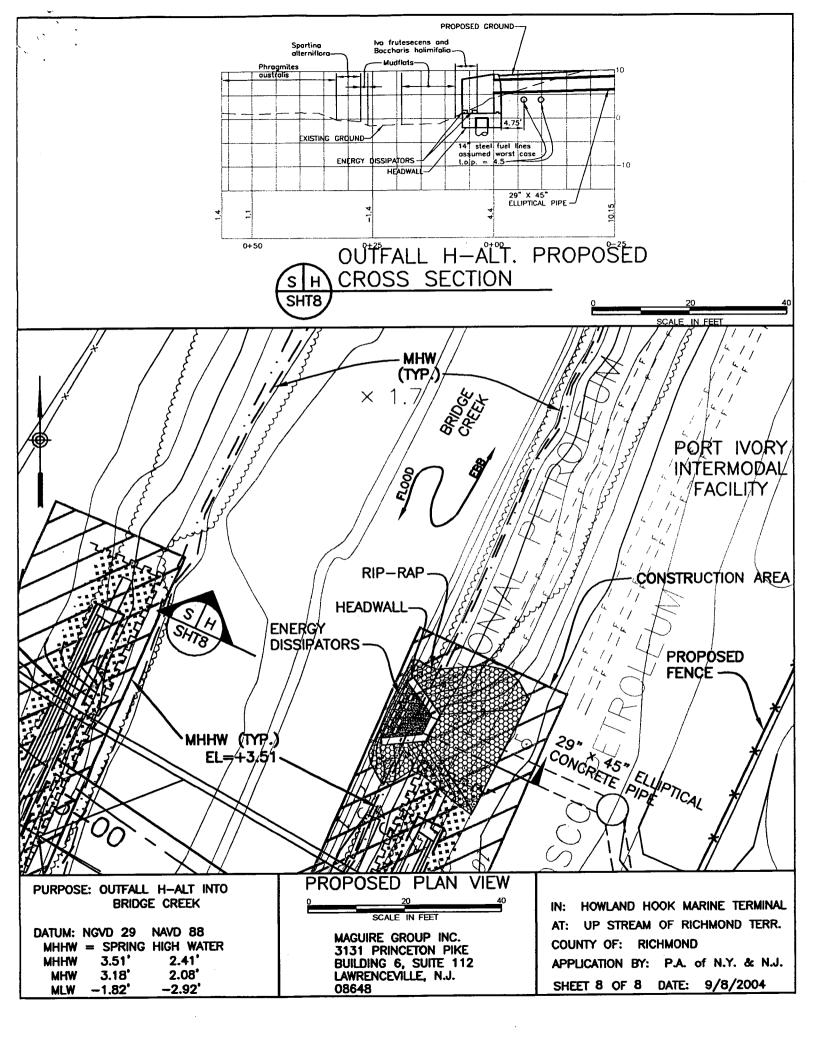
Port Ivory Intermodal Facility. Location of the bridge over Bridge Creek. View southwesterly. 5/04.

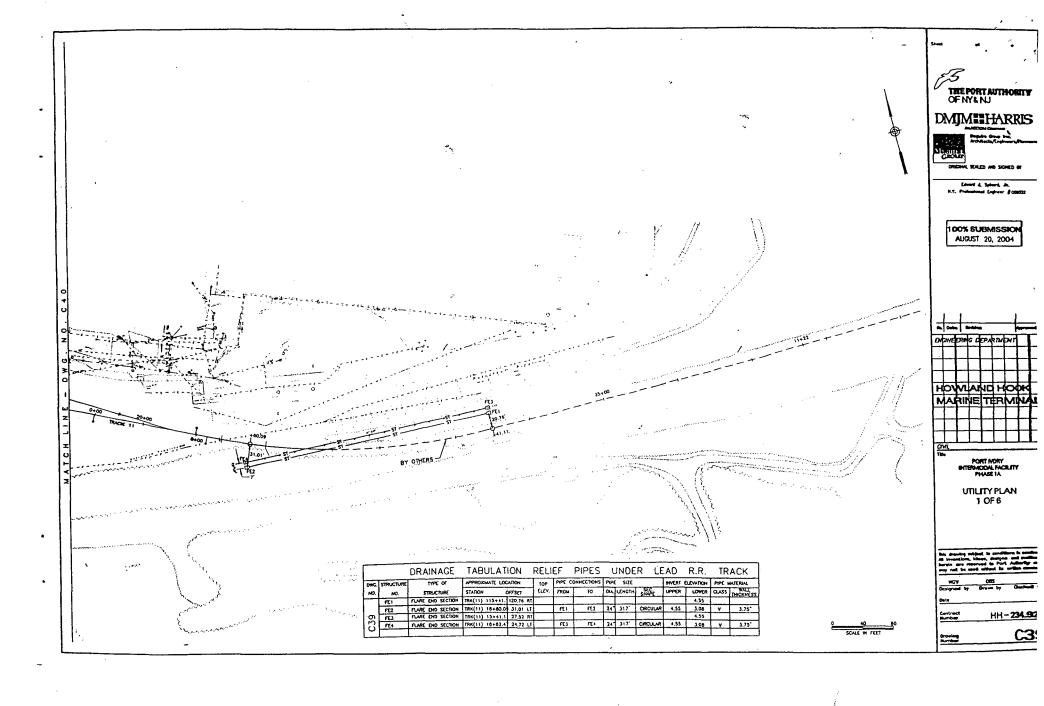


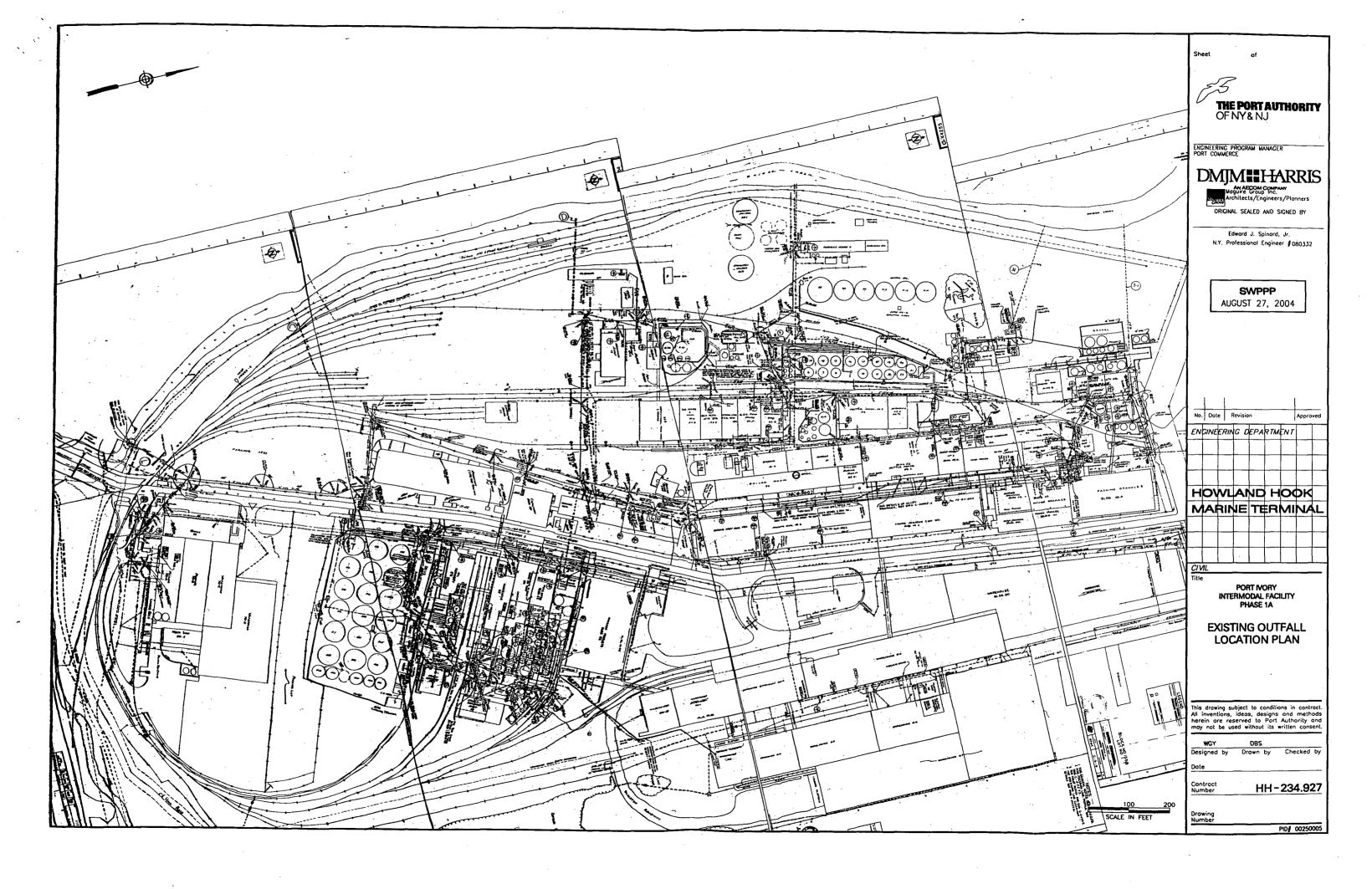
Port Ivory Intermodal Facility. Location of proposed bridge over Bridge Creek. View southwesterly. 4/04.

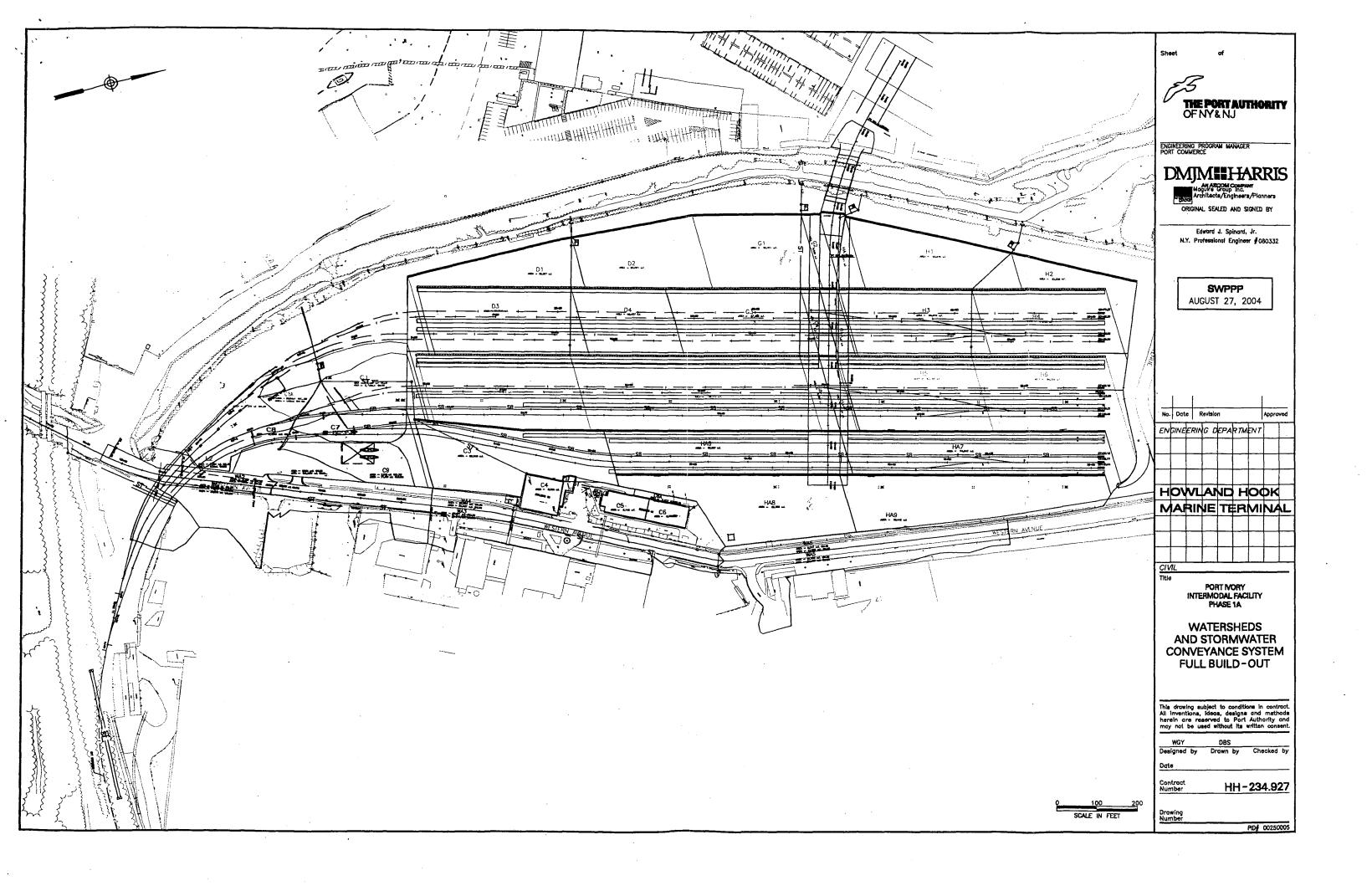


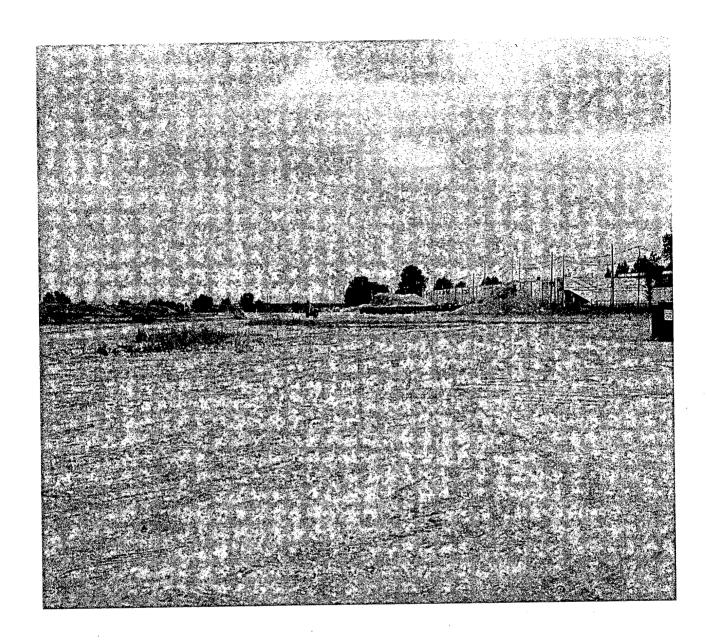




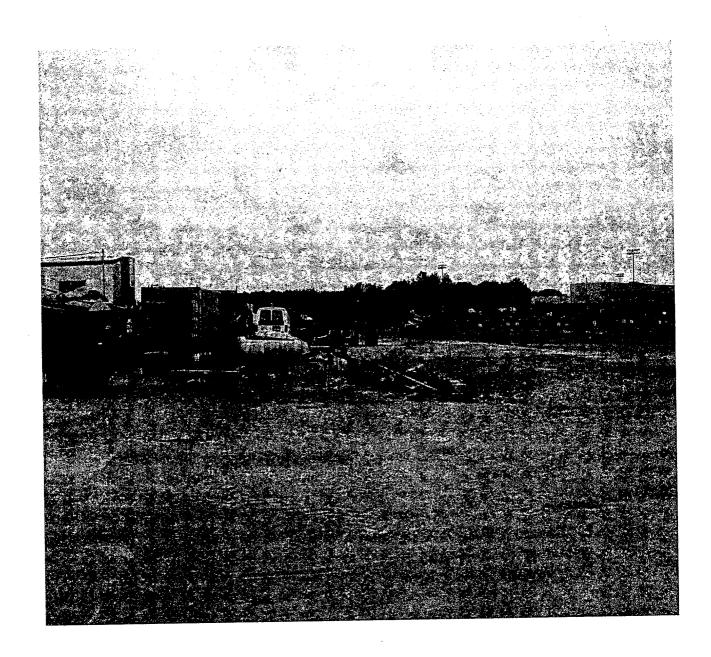








Port Ivory Intermodal Facility site. View northerly. 9/04.



Port Ivory Intermodal Facility site. View southerly. 9/04.

617.20 Appendix A State Environmental Quality Review FULL ENVIRONMENTAL ASSESSMENT FORM

Purpose: The full EAF is designed to help applicants and agencies determine, in an orderly manner, whether a project or action may be significant. The question of whether an action may be significant is not always easy to answer. Frequently, there are aspects of a project that are subjective or unmeasureable. It is also understood that those who determine significance may have little or no formal knowledge of the environment or may not be technically expert in environmental analysis. In addition, many who have knowledge in one particular area may not be aware of the broader concerns affecting the question of significance.

The full EAF is intended to provide a method whereby applicants and agencies can be assured that the determination process has been orderly, comprehensive in nature, yet flexible enough to allow introduction of information to fit a project or action.

Full EAF Components: The full EAF is comprised of three parts:

- Part 1: Provides objective data and information about a given project and its site. By identifying basic project data, it assists a reviewer in the analysis that takes place in Parts 2 and 3.
- Part 2: Focuses on identifying the range of possible impacts that may occur from a project or action. It provides guidance as to whether an impact is likely to be considered small to moderate or whether it is a potentially-large impact. The form also identifies whether an impact can be mitigated or reduced.
- Part 3: If any impact in Part 2 is identified as potentially-large, then Part 3 is used to evaluate whether or not the impact is actually important.

DETERMINATION OF SIGNIFICAN	NCE — Type 1 and Unlisted Actions
Identify the Portions of EAF completed for this project:	Mart 1 □ Part 2 □ Part 3
Upon review of the information recorded on this EAF (Par information, and considering both the magnitude and impolead agency that:	
	important impact(s) and, therefore, is one which will not at, therefore a negative declaration will be prepared.
	effect on the environment, there will not be a significant tigation measures described in PART 3 have been required, tion will be prepared.*
☐ C. The project may result in one or more large a on the environment, therefore a positive dec * A Conditioned Negative Declaration is only valid to Howland Hook Marine Terminal Port Ivory In	for Unlisted Actions
Name of	
New York State Department of Environmental	
Name of Le	
	3 ,
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
Signature of Responsible Officer in Lead Agency	Signature of Preparer (If different from responsible officer)
. Da	ite

PART 1—PROJECT INFORMATION

Prepared by Project Sponsor

NOTICE: This document is designed to assist in determining whether the action proposed may have a significant effect on the environment. Please complete the entire form, Parts A through E. Answers to these questions will be considered as part of the application for approval and may be subject to further verification and public review. Provide any additional information you believe will be needed to complete Parts 2 and 3.

It is expected that completion of the full EAF will be dependent on information currently available and will not involve new studies, research or investigation. If information requiring such additional work is unavailable, so indicate and specify each instance.

Howland Hook Marine Terminal Port I	vory Intermodal Fa	cility		
LOCATION OF ACTION (include Street Address, Municipality and County)	The second secon		PARTITION OF THE PARTIT	Security Section (Section Section Sect
40 Western Avenue, Staten Island, New York City, Richmond Co	unty.			
NAME OF APPLICANT/SPONSOR			NESS TELEF	
The Port Authority of New York and New Jersey		(9	73 🕽 565-	7565
ADDRESS	•			
Two Gateway Center, 14th Floor SW	· · · · · · · · · · · · · · · · · · ·		14 at 15 at 15	
CITYIPO			BTATE NJ	ZIP CODE 07102
Newark		Pd 191	NESS TELES	the same of the same and the
NAME OF OWNER (If different) Same		()	110334
ADDRESS	Control and the second		Administration of 1988-19 American	
Same			*	
CITYIPO	And the second s		STATE	ZIP CODE
BOARD AND AND AND AND AND AND AND AND AND AN				
As part of the Phase 1A development of a five-track, intermodal f				\
water outfall, and reconstruct two storm water outfalls within the r Mitigation for the loss of wetlands due to the project will consist o Creek to enhance tidal flow to off-site, upstream, tidal wetlands.				
Physical setting of overall project, both developed and undevelo 1. Present land use: X Urban X Industrial □Commerc □Forest □Agriculture □Other □	-	uburl	oan) C]Rural (non-farm)
2. Total acreage of project area: approximately 47 acres. Inte	ormodal site = 38 acres: Brid	ae Cra	ock = 0 acro	3
APPROXIMATE ACREAGE	PRESENT			COMPLETION
Meadow or Brushland (Non-agricultural)	Λ	res	.0	acres
Forested	0	res	0	acres
Agricultural (Includes orchards, cropland, pasture, etc.)	0 ac		0	acres
Wetland (Freshwater or tidal as per Articles 24, 25 of ECL)	approx. 7		approx. 8	
- · · · · · · · · · · · · · · · · · · ·	approx 5.5		approx. 6	5
Water Surface Area	anney AF F		approx. 4	
Unvegetated (Rock, earth or fill)	approx 5		approx. 1	5
Roads, buildings and other paved surfaces	anneau 10	res	approx. 2	2
Other (Indicate type) Gravel and landscaped	approx. 10 ac	res	appion. Z	acres
3. What is predominant soil type(s) on project site? fill			400	
a. Soil drainage: DWell drained % of site	Moderately well dra	iined	100	% of site
□Poorly drained % of site				
b. If any agricultural land is involved, how many acres of soil Land Classification System? NAacres. (See 1 NYCR)		oil gn	oup 1 thre	ugh 4 of the NYS
4. Are there bedrock outcroppings on project site?	M No			
What is death to bedrock? greater than 50 (in feet	A)			

5.	Approximate percentage of proposed project site with slopes: \$\Bigcup_0-10\% \frac{100}{200} \% \Bigcup_10-15\% \frac{100}{200} \%\$
6.	Is project substantially contiguous to, or contain a building, site, or district, listed on the State or the National Registers of Historic Places? Yes KNo
7.	Is project substantially contiguous to a site listed on the Register of National Natural Landmarks?
8.	What is the depth of the water table? approx 5 (in feet)
	Is site located over a primary, principal, or sole source aquifer?
10	Do hunting, fishing or shell fishing opportunities presently exist in the project area?
	. Does project site contain any species of plant or animal life that is identified as threatened or endangered?
	☐Yes XNo According to
	Identify each species
12	Are there any unique or unusual land forms on the project site? (i.e., cliffs, dunes, other geological formations)
13	Is the project site presently used by the community or neighborhood as an open space or recreation area?
14	Does the present site include scenic views known to be important to the community? ☐Yes ☑No
15	Streams within or contiguous to project area: Bridge Creek
	a. Name of Stream and name of River to which it is tributary Arthur Kill
16	a. NameTidal wetlands along Bridge Creek b. Size (In acres)approx. 7 acres
17	'. Is the site served by existing public utilities? ■Yes ■No
	 a) If Yes, does sufficient capacity exist to allow connection? b) If Yes, will improvements be necessary to allow connection? ■Yes □No
40	· · · · · · · · · · · · · · · · · · ·
	Is the site located in an agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? Yes No
19	Is the site located in or substantially contiguous to a Critical Environmental Area designated pursuant to Article 8 of the ECL, and 6 NYCRR 617?
20	Has the site ever been used for the disposal of solid or hazardous wastes? Yes You
В	Project Description
1.	Physical dimensions and scale of project (fill in dimensions as appropriate)
	a. Total contiguous acreage owned or controlled by project sponsor approx. 300 acres.
	b. Project acreage to be developed. approx. 38 acres initially; approx. 38 acres ultimately.
	c. Project acreage to remain undeveloped <u>0</u> acres. d. Length of project, in miles: <u>NA</u> (If appropriate)
	e. If the project is an expansion, indicate percent of expansion proposed NA %;
	f. Number of off-street parking spaces existing NA ; proposed
	g. Maximum vehicular trips generated per hour NA (upon completion of project)?
	h. If residential: Number and type of housing units:
	One Family Two Family Multiple Family Condominium
	Initially NA
	Ultimately
	i. Dimensions (in feet) of largest proposed structure NA height; width, length.
	j. Linear feet of frontage along a public thoroughfare project will occupy is? 2,600 ft.

2. How much natural material (i.e., rock, earth, etc.) will be removed from the site? NA tons/cubic yards
3. Will disturbed areas be reclaimed? XiYes □No □N/A
a. If yes, for what intended purpose is the site being reclaimed? Erosion control.
b. Will topsoil be stockpiled for reclamation? Yes XINo
c. Will upper subsoil be stockpiled for reclamation? Yes XiNo
4. How many acres of vegetation (trees, shrubs, ground covers) will be removed from site? NA acres.
5. Will any mature forest (over 100 years old) or other locally-important vegetation be removed by this project? [Yes - X]No
6. If single phase project: Anticipated period of construction NA months, (including demolition).
7. If multi-phased:
a. Total number of phases anticipated 3 (number).
b. Anticipated date of commencement phase 1 January month 2005 year, (including demolition).
c. Approximate completion date of final phase NA month 2010+ year.
d. Is phase 1 functionally dependent on subsequent phases? Yes XINo
8. Will blasting occur during construction? Yes XINo
9. Number of jobs generated: during construction approx. 50; after project is complete approx. 50.
10. Number of jobs eliminated by this project <u>NA</u>
11. Will project require relocation of any projects or facilities? Yes XINo If yes, explain
12. Is surface liquid waste disposal involved? OYes XiNo
a. If yes, indicate type of waste (sewage, industrial, etc.) and amount
b. Name of water body into which effluent will be discharged
13. Is subsurface liquid waste disposal involved? Yes No Type
14. Will surface area of an existing water body increase or decrease by proposal? Explain Mitigation element will increase width of Bridge Creek to enhance tidal flow.
15. Is project or any portion of project located in a 100 year flood plain? XiYes □No
16. Will the project generate solid waste? TYes No
a. If yes, what is the amount per month tons
b. If yes, will an existing solid waste facility be used?
c. If yes, give name; location
d. Will any wastes not go into a sewage disposal system or into a sanitary landfill? Lives 2000
e. If Yes, explain
17. Will the project involve the disposal of solid waste? □Yes ŽiNo
a. If yes, what is the anticipated rate of disposal?tons/month.
b. If yes, what is the anticipated site life? years.
18. Will project use herbicides or pesticides?
The state of the s
20. Will project produce operating noise exceeding the local ambient noise levels? Yes No
21. Will project result in an increase in energy use? ☐Yes ČiNo
If yes , indicate type(s)
22. If water supply is from wells, indicate pumping capacity NA gallons/minute.
23. Total anticipated water usage per day NA gallons/day.
24 Does project involve Local. State or Federal funding?
24. Does project involve Local, State or Federal funding?

25. Approvals Required:			Туре		Submit Date	
City, Town, Village Board	Yes	□No	Sewer, water line con	nections	concurre	nt
City, Town, Village Planning Board	□Yes	OS No			A10000284 A10 8 18 18 10 10 10 10 10 10 10 10 10 10 10 10 10	
City, Town Zoning Board	□Yes	X No				
City, County Health Department	□Yes	WNo				
Other Local Agencies	Myes	□No	Coastal Management	Program	concurre	nt
Other Regional Agencies	□Yes	MNo				
State Agencies	Yes	□No	Coastal Management	Program	concurre	nt
Federal Agencies	X Yes	□No	Section 10, 404		concurre	nt
C. Zoning and Planning Inform 1. Does proposed action involve a plan If Yes, indicate decision required: ☐ zoning amendment ☐ zonin ☐ new/revision of master plan 2. What is the zoning classification(s)of 3. What is the maximum potential devention percent. 4. What is the proposed zoning of the	ning or a mg varian Dresou f the site	ce	ecial use permit ement plan other strial/Commercial.	subdivision		
What is the maximum potential devi NA			if developed as permit	ited by the prop	oosed zoning?	
 6. Is the proposed action consistent wind. 7. What are the predominant land useful industrial/Commercial. 8. Is the proposed action compatible. 	s) and zo with ad	ning classi ljoining/sun	fications within a ¼ mi	le radius of pro	posed action?	
9. If the proposed action is the subdiv						
a. What is the minimum lot s						
 10. Will proposed action require any au 11. Will the proposed action create a fire protection)? □Yes ☑No a. If yes, is existing capacity s 	demand	for any co	ommunity provided serv			X iNo olice,
12. Will the proposed action result in t			•	present levels?	□Yes	No
a. If yes, is the existing road n					es 🗆 No	
D. Informational Details Attach any additional information impacts associated with your proposal, pavoid them. E. Verification I certify that the information province Contact Person Bernice R. M. Applicant/Sponsor Name	please dis ded abov	scuss such I	mpacts and the measur the best of my knowle	es which you pr edge. Date		ate or
Signature Xaymmi X 77	7 m	noan	Title Supervisor, Po	JAVEEU		
If the action is in the Coastal Area, and y with this assessment.	ou aré a	state agénc	ry, complete the Coastal	Assessment For	m before proci	eding



New York State Department of Environmental Conservation Supplement to Joint Application for Permit

STRUCTURAL ARCHEOLOGICAL ASSESSMENT FORM (SAAF)

	PAF	RT 1 APPLICANT COMPLETES	
		APPLICANT INFORMATION	
1.	Applicant Name	The Port Authority of New York a	and New Jersey
2.	Applicant Address	Two Gateway Center, 14th Floor	SW, Newark, NJ, 07102
			-
			· · · · · · · · · · · · · · · · · · ·
		PROJECT INFORMATION	
3.	Project/Facility Name	Howland Hook Marine Terminal - Port I	vory Intermodal Facility
4.	Project/Facility Location	40 Western Avenue, Staten Islan	nd, New York
5.		acent to, or does it contain a n the State or National Register	G Yes G N x
6.	Are there any buildings or s adjacent to or within the pro	tructures 50 years old or older oposed project area?	G Yes G N X
	If the answer to question 5 building and structure (use	and/or 6 is yes, provide the following attachments if necessary):	information for each
a.	Name of structure		
b.	Location		-
C.	Type of structure (ex. house ruins)	e, outbuilding, barn, bridge, dam,	
d.	Approximate age or date of	construction	
7.	Might the proposed project upon any buildings or struct National Register of Historic older?	:	G Yes G M≱o
	If yes, describe briefly (use	attachments if necessary):	
		-	
•			Ī
-			-

	PART 1 APPLICANT COMPLETES		
8.	Provide photographs of every building and structure that may described in number 7, on the opposite side of this page. The recommended: ! Minimum of 2 photographs ! Minimum size 4" X 4" prints from negatives preferred; acceptable ! Photos must be <u>clear</u> and <u>focused</u> ! Clearly label photos so it is obvious what is being illust plan, if possible ! Photo 1: show both the entire front and side of the structure close to the building as possible. Be sure the structure blocked by trees or other obstructions ! Photo 2: show relationship of building or structure to re	e following standard polaroid photos are rated; key photos to acture in a single sh e is not partially or f	o map or not from as
9.	Has the land within the proposed project area been previously disturbed or altered (excavated, landscaped, filled, utilities installed)?	G Y ‰ G No	
_	If yes, describe briefly, including depth of disturbance (use att	achments if necess	sary):
	mer owner the Proctor and Gamble Company. Extensively nanufacturing facilities.	modified to accor	mmodate .
10.	Approximate percentage of proposed project area with	0 - 10%	100 %
	slopes:	10 - 15%	%
		15% or greater	%_
11.	Approximate percentage of proposed project site with the	Well drained	%
	following drainage characteristics:	Moderately well drained	100 %
		Poorly drained	%_
Prepa	red By (Print or type name): Raymond J. Kordish		
Signat	ture: Kannan Hood	Date: 9-9-	04

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT (33 CFR 325)

OMB APPROVAL NO. 0710-0003 Expires June 30, 2000

(Proponent: CECW-OR)

The Public burden for this collection of information is sestimated to average 10 hours per response, although the majority of applications should require 5 hours or less. This includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Service Directorate of Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302; and to the Office of Management and Budget, Paperwork Reduction Project (0710-0003), Washington, DC 20503. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research and Sanctuaries Act, 33 USC 1413, Section 103. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

1. APPLICATION NO. 5. APPLICANT'S NAME The Port Authority of Ne. 6. APPLICANT'S ADDRESS Wo Gateway Center, 14th Fl. 7. APPLICANT'S PHONE NOS. W.	w York and New Jersey	Bernice R. Malione, Sup	4. DATE APPLICATION COMPLETED AME AND TITLE (an agent is not required) ervisor, PGA/EEU
The Port Authority of Ne 6. APPLICANT'S ADDRESS Two Gateway Center, 14th FI	w York and New Jersey	8. AUTHORIZED AGENT'S NA Bernice R. Malione, Sup	
The Port Authority of Ne 6. APPLICANT'S ADDRESS Two Gateway Center, 14th FI		Bernice R. Malione, Sup	
6. APPLICANT'S ADDRESS wo Gateway Center, 14th Fl			ervisor, PGA/EEU
wo Gateway Center, 14th Fl		O ACENTIC ADDRESS	
		9. AGENT'S ADDRESS	
7. APPLICANT'S PHONE NOS. W	loor SW, Newark, NJ 07102	Same as applicants.	
	V/AREA CODE	10. AGENT'S PHONE NOS. W	//AREA CODE
a. Residence		a. Residence	
b. Business 973/565-75	665	b. Business 973/565-	7565
11.	STATEMENT	OF AUTHORIZATION	
APPLICANT'S SIGNA	TURE T		9/10/04 DATE
·		CRIPTION OF PROJECT OR ACTIV	ITY
12. PROJECT NAME OR TITLE (s			
Howland Hook Marine Terr	minal - Port Ivory Intermodal Fac	ility	
13. NAME OF WATERBODY, IF I	KNOWN (if applicable)	14. PROJECT STREET ADDRE	ESS (if applicable)
Bridge Creek		40 Western Avenue	
15. LOCATION OF PROJECT		Staten Island, NY 10303 718/981-9693	3
Richmond	New York	1 13/33 1 3333	
COUNTY	STATE	• [
16. OTHER LOCATION DESCRIF	PTIONS, IF KNOWN, (see instructions)		
NA			

See enclosed location drawings.

18. Nature of Activity (Description of project, include all features) As Phase 1A of the project, the development of a five-track, intermodal facility (rail transfer of shipping containers) at the Port Ivory site of the Howland Hook Marine Terminal, the Port Authority proposes to construct a bridge and three storm water outfalls within the regulated tidal wetland zone of Bridge Creek. Mitigation for the loss of wetlands will consist of re-profiling part of the bed and banks of Bridge Creek to enhance tidal flow to off-site, upstream, tidal wetlands. Project details are provided in the enclosed application documents. 19. Project Purpose (Describe the reason or purpose of the project, see instructions) Reduce the number of truck movements of shipping containers to and from the New York Container Terminal, Inc. at the Howland Hook Marine Terminal by developing a rail-transfer facility. USE BLOCKS 20-22 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED 20. Reason(s) for Discharge Minor discharges of clean fill and riprap at the proposed bridge and storm water outfall locations, and at bank side locations along Bridge Creek in the area of bed and bank re-profiling related to project mitigation. 21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards Stone and clean sand. Approximately 100 cubic yards of material. 22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions) Bridge abutment--385 square feet. Outfall H-ALT--200 square feet. 23. Is Any Portion of the Work Already Complete? Yes IF YES, DESCRIBE THE COMPLETED WORK 24. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (If more than can be entered here, please attach a supplemental list). Adjoining property is owned or leased by the Port Authority of New York and New Jersey. 25. List of Other Certifications or Approvals/Denials Received from other Federal, State or Local Agencies for Work Described in This Application. TYPE APPROVAL* **IDENTIFICATION NUMBER** DATE APPLIED DATE APPROVED DATE DENIED **AGENCY NYSDEC** Tidal Wetland Permit Concurrent application. **NYSDOS CMP Consistency Concurrence** Concurrent application. *Would include but is not restricted to zoning, building and flood plain permits 26. Application is hereby made for a permit or permits to authorize the work described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the

duly authorized agent of the applicant.

SIGNATURE OF APPLICANT () Francis J. Lombărdi, P.E., Chief Engineer SIGNATURE OF AGENT

Francis J. Lombărdi, P.E., Chief Engineer
The application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

ENVIRONMENTAL QUESTIONNAIRE

This is intended to supplement ENG Form 4345, Application for Department of the Army Permit, or the Joint Application for Permit used in the State of New York. Please provide complete answers to all questions below which are relevant to your project. Any answers may be continued on separate sheet(s) of paper to be attached to this form.

PRIVACY ACT STATEMENT

The purpose of this form is to provide the Corps of Engineers with basic information regarding your project. This information will be used to facilitate evaluation of your permit application and for public dissemination as required by regulation. Failure to provide complete information may result in your application being declared incomplete for processing, thereby delaying processing of your application.

GENERAL--APPLICABLE TO ALL PROJECTS

1. Explain the need for, and purpose of, the proposed work.

As Phase 1A of the project, the development of a five-track, intermodal facility (rail transfer of shipping containers) at the Port Ivory site of the Howland Hook Marine Terminal, the Port Authority proposes to construct a bridge and three storm water outfalls within the regulated tidal wetland zone of Bridge Creek. Mitigation for the loss of wetlands will consist of re-profiling part of the bed and banks of Bridge Creek to enhance tidal flow to off-site, upstream, tidal wetlands.

Project details are provided in the enclosed application documents.

The project will significantly reduce the number of truck movements of shipping containers to and from the New York Container Terminal, Inc. at the Howland Hook Marine Terminal by developing a rail-transfer facility.

2. Provide the names and addresses of property owners adjacent to your work site (if not shown on the application form or project drawings).

Adjacent properties are owned by or leased by the applicant.

(Please note that depending upon the nature and extent of your project, you may be requested to provide the names and addresses of additional property owners proximate to your project site to ensure proper coordination.)

3. Photographs of the project site should be submitted. For projects in tidal areas, photographs of the waterway vicinity should be taken at low tide. Using a separate copy of your plan view, indicate the location and direction of each photograph as well as the date and time at which the photograph was taken. Provide a sufficient number of photographs so as to provide a clear understanding of conditions on and proximate to your project site.

Photo's enclosed.

4. Provide a copy of any environmental impact statement, or any other environmental report which was prepared for your project.

Environmental report enclosed.

5. Provide a thorough discussion of alternatives to your proposal. This discussion should include, but not necessarily be limited to, the "no action" alternative and alternative(s) resulting in less disturbance to waters of the United States. For filling projects in waters of the United States, including wetlands, your alternatives discussion should demonstrate that there are no practicable alternatives to your proposed filling and that your project meets with current mitigation policy (i.e. avoidance, minimization and compensation).

See enclosed detailed project description for alternatives analysis.

DREDGING PROJECTS

Answer the following if your project involves dredging.

1. Indicate the estimated volume of material to be dredged and the depth (below mean low water) to which dredging would occur. Would there be overdepth dredging?

Volume = approximately 3,300 cubic yards of creek bank and bottom sediment to be removed as part of the NYSDEC required mitigation for the project. Re-profiling of a section of Bridge Creek will enhance tidal flow into the easterly reaches of the creek system, site of the NYSDEC's wetland restoration project.

2. You can apply for a ten-year permit for maintenance dredging. If you wish to apply for a ten-year permit, please provide the number of additional dredging events during the ten-year life of the permit and the amount of material to be removed during future events.

NA

- 3. Indicate of your drawings the dewatering area (if applicable) and disposal site for the dredged material (except landfill sites). Submit a sufficient number of photographs of the dewatering and disposal sites as applicable so as to provide a clear indication of existing conditions. For ten-year maintenance dredging permits, indicate the dewatering/disposal sites for future dredging events, if known.
- 4. Describe the method of dredging (i.e. clamshell, dragline, etc.) and the expected duration of dredging.

Excavator. Approximately two weeks.

5. Indicate the physical nature of the material to be dredged (i.e. sand, silt, clay, etc.) and provide estimated percentages of the various constituents if available. For beach nourishment projects, grain size analysis data is required.

Erosion and tidal borne sediments -- silt (60%), clay (30%), sand (10%).

6. Describe the method of dredged material containment (i.e. hay bales, embankment, bulkhead, etc.) and whether return flow from the dewatering/disposal site would reenter any waterway. Also indicate if there would be any barge overflow.

Excavated material would be placed on an adjacent upland site surrounded by hay bales and filter fabric. Any filtered runoff would be allowed to re-enter Bridge Creek via sheet flow from the containment

MOORING FACILITIES

Answer the following if your project includes the construction or rehabilitation of recreational mooring facilities.

1. It is generally recommended that any fixed piers and walk ramps be limited to four feet in width, and that floats be limited to eight feet in width and rest at least two feet above the waterway bottom at mean low water. Terminal floats at private, non-commercial facilities should be limited to 20 feet in length. If you do not believe your proposal can meet with these recommendations, please provide the reason(s).

NA

area.

- 2. Using your plan view, show to scale the location(s), position(s) and size(s) (including length, beam and draft) of vessel(s) to be moored at the proposed facility, including those of transient vessel(s) if known.
- 3. For commercial mooring sites such as marinas, indicate the capacity of the facility and indicate on the plan view the location(s) of any proposed fueling and/or sewage pumpout facilities. If pumpout facilities are not planned, please discuss the rationale below and indicate the distance to the nearest available pumpout station.
- 4. Indicate on your plan view the distance to adjacent marine structures, if any are proximate and show the locations and dimensions of such structures.

5. Discuss the need for wave protection at the proposed facility. Please be advised that if a permit is issued, you would be required to recognize that the mooring facility may be subject to wave action from wakes of passing vessels, whose operations would not be required to be modified. Issuance of a permit would not relieve you of ensuring the integrity of the authorized structure(s) and the United States would not be held responsible for damages to the structure(s) and vessel(s) moored thereto from wakes from passing vessels.

BULKHEADING/BANK STABILIZATION/FILLING ACTIVITIES

Answer the following if your project includes construction of bulkheading (also retaining walls and seawalls) with backfill, filling of waters/wetlands, or any other bank stabilization fills such as riprap, revetments, gabions, etc.

1. Indicate the total volume of fill (including backfill behind a structure such as a bulkhead) as well as the volume of fill to be placed into waters of the United States. The amount of fill in waters of the United States can be determined by calculating the amount of fill to be placed below the plane of spring high tide in tidal areas and below ordinary high water in non-tidal areas.

Stabilize Bridge Creek embankment = approximately 100 cubic yards of riprap.

2. Indicate the source(s) and type(s) of fill material.

Purchased construction grade riprap.

3. Indicate the method of fill placement (i.e. by hand, bulldozer, crane, etc.). Would any temporary fills be required in waterways or wetlands to provide access for construction equipment? If so, please indicate the area of such waters and/or wetlands to be filled, and show on the plan and sectional views.

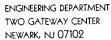
Placement by excavator. Fill in wetlands to provide access will not be required.

The foregoing requests basic information on the most common types of projects requiring Department of the Army permits. It is intended to obviate or reduce the need for requesting additional information; however, additional information may be requested above and beyond what is requested in this form.

Please feel free to add any additional information regarding your project which you believe may facilitate our review.



Port Ivory Intermodal Facility. Bridge Creek from the container operations administration building bridge at Western Avenue. Typical of channel recommended for re-profiling. View northerly. 9/04.





DHL Express Delivery

14th Floor SW

October 18, 2004

Ms. KayDee McGuckin Division of Environmental Permits New York State Department of Environmental Conservation 47-40 21st Street Long Island City, NY 11101

Re: HHMT-Port Ivory Intermodal Facility (PIIF) Application for Permit.

Dear Ms. McGuckin:

In follow up to our application for permit dated September 15, 2004, and with regard to the mitigation element described therein, the Port Authority of New York and New Jersey (the Port Authority) herewith submits drawings and supporting information for a change in the sediment/soil disposal location. Concurrently, this change in the mitigation proposal is being submitted to the ACOE and the NYSDOS for their review.

The proposed disposal location for this project element in the application was on Howland Hook Marine Terminal land immediately adjacent to and west of Bridge Creek. However, due to concerns about the volume of sediment/soil (3,300 cubic yards) to be distributed over the limited area available adjacent to Bridge Creek, it was determined that the material be trucked to the upland site (gravel base) within the Port Ivory facility area shown on the enclosed drawings. This alternate location is currently used for the temporary storage of container truck chassis used at the Howland Hook container terminal operations.

The material would be stored at this location pending determination of its suitability for use as fill within the Port Ivory Intermodal project area or, if not suitable, it would be disposed of at an approved solid waste landfill.

The general work area for the re-profiling effort is shown on enclosed drawing G3 (gray tone area). As shown on G3, the transport route for excavated sediments/soils by truck from the work area would be along a short section of Western Avenue (limited to work along this section of Bridge Creek only), over Bridge Creek via the bridge and entrance to the container terminal's administration building parking lot, through the parking lot, through the easterly sector of the terminal's container storage area to former Richmond Terrace (all on paved surfaces) and to the stockpile location.

THE PORT AUTHORITY OF MY & MU

During the re-profiling effort, hay bales and silt curtains would be employed along the banks of Bridge Creek, and silt curtains across Bridge Creek, to minimize erosion and sediment transport. Following completion of the re-profiling effort, the work area, currently dominated by common reed (*Phragmites australis*), would be seeded with fast growing grasses to stabilize the disturbed areas a quickly as possible. Relocation of the disposal site will eliminate the need for the gabion retaining wall and stone base shown on the original application drawings.

As indicated on drawing LS12, the temporary stockpile area would be ringed with a silt fence/hay bale barrier as an erosion control measure. The stockpile would be seeded with a mixture of fast growing grasses or soil-sealed using an acrilyc polymer to further control erosion.

Thank you for your consideration of this matter. Please call me at (973) 565-7564 if you have any questions or require additional information.

Very truly yours,

Raymond J. Kordish

Permits and Governmental Approvals

Environmental Engineering Unit

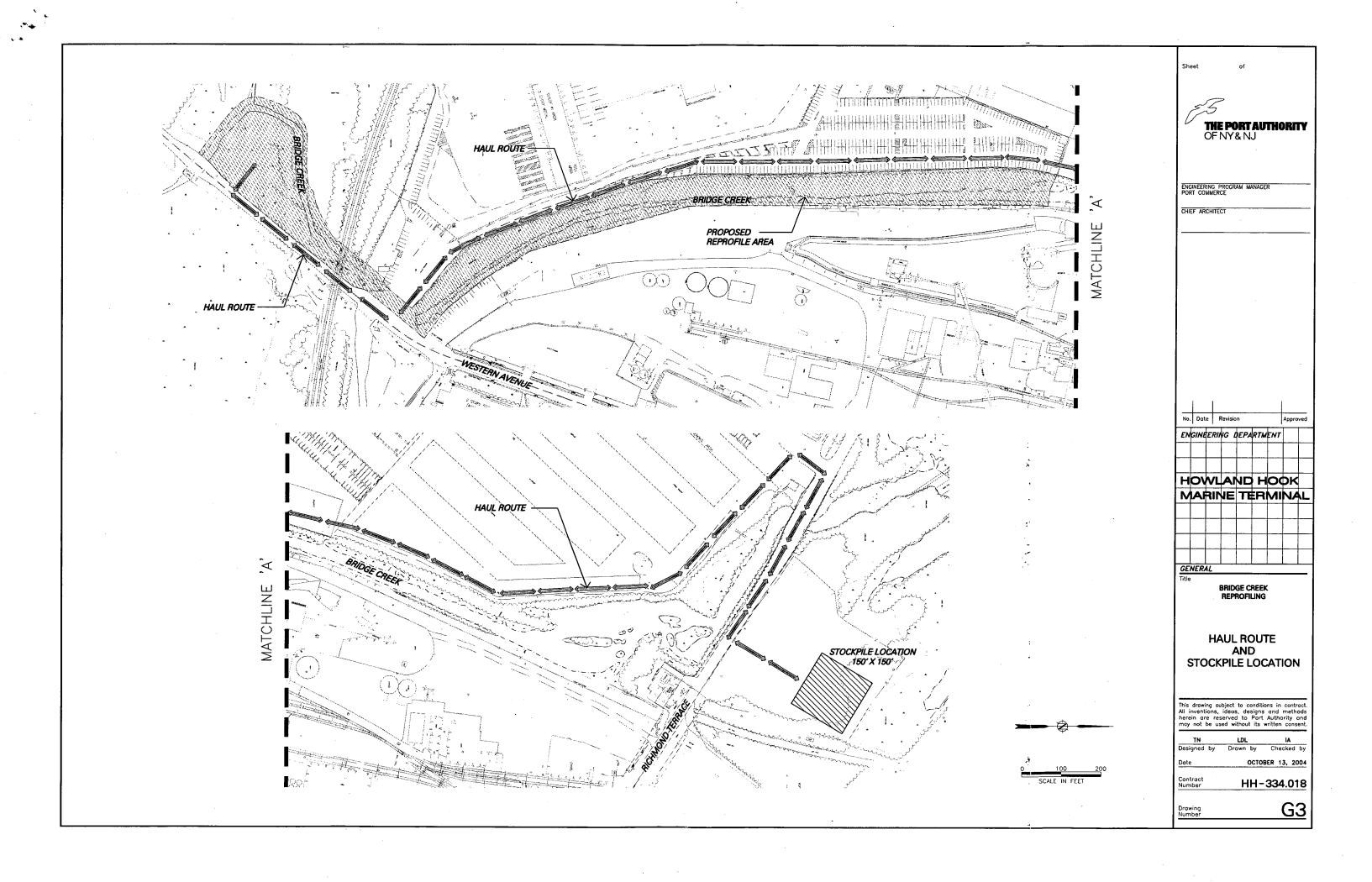
Cc:

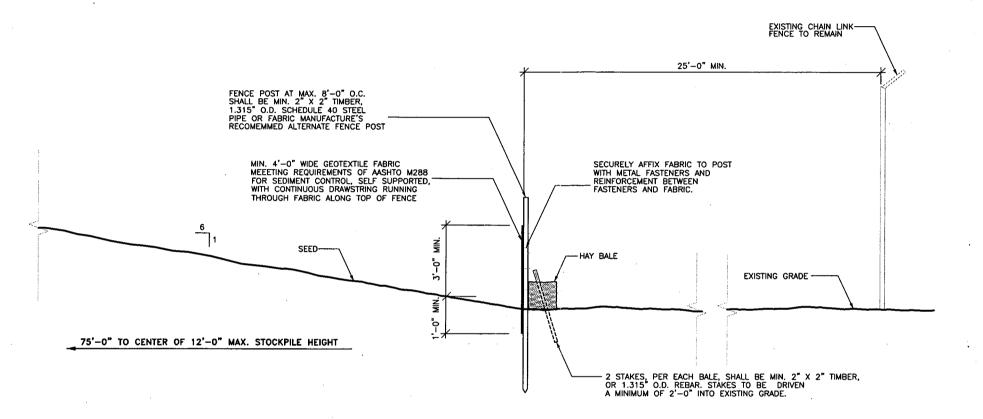
S. Zahn, NYSDEC, DMR

C. Spitz, ACOE, EPS

J. Zappieri, NYSDOS, CMP

W. Woods, NYCDP, WRP





SILT FENCE/HAY BALE BARRIER

STOCKPILE CONTAINMENT BARRIER

Not to Scale

Sheet THE PORT AUTHORITY OF NY& NJ CHIEF ARCHITECT No. Date Revision ENGINEERING DEPARTMENT HOWLAND HOOK MARINE TERMINAL LANDSCAPE ARCHITECTURAL **BRIDGE CREEK** REPROFILING **DETAILS** -3-This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent. TN Designed by Drawn by Checked by OCTOBER 13, 2004 Date HH-334.018 LS12



HOWLAND HOOK MARINE TERMINAL

BRIDGE CREEK REPROFILING

CONTRACT No. HH-334.018

NO. Date Revision Approved

ENGINEERING PROGRAM MANAGER PORT COMMERCE DATE

FACILITY MANAGER

CONTRACT No. HH-334.018

CONTRACT No. HH-334.018

TITLE SHEET

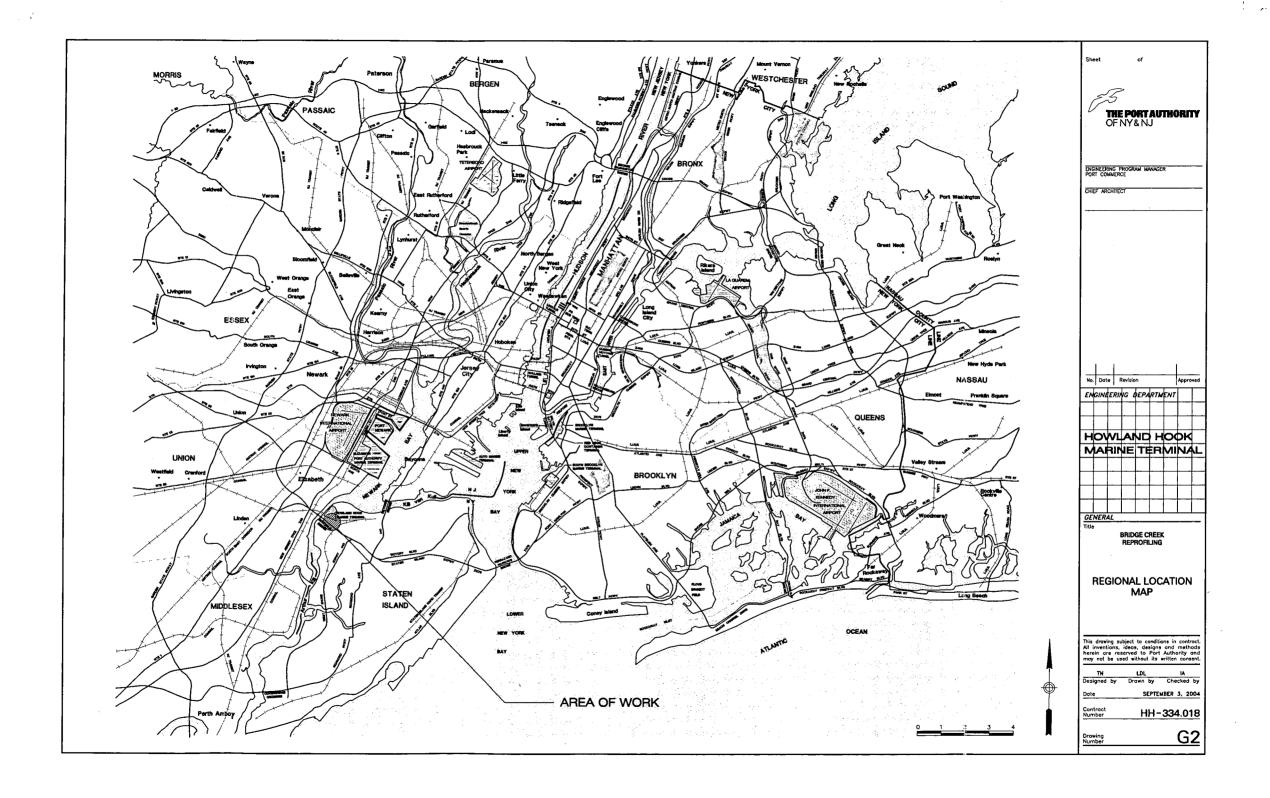
CHEF ENGINEER

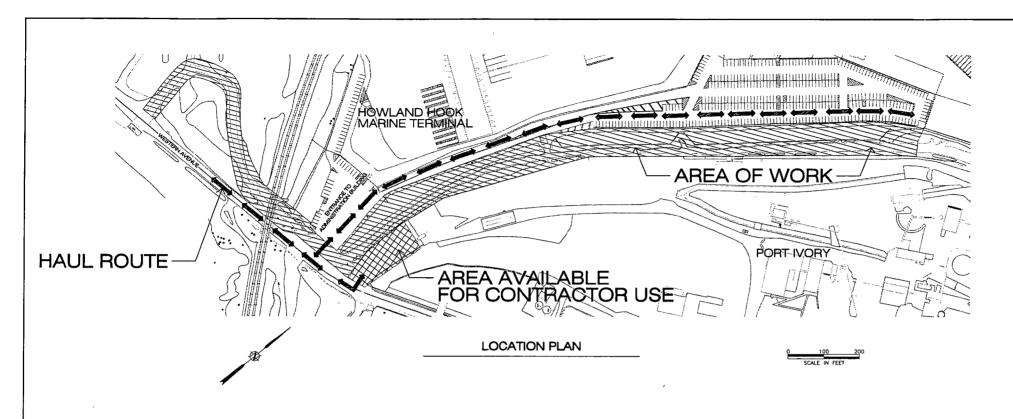
DATE

DATE

CONTRACT No. HH-334.018

DRAWING No. G1





	INDEX OF	DRAV	VINGS
	GENERAL		
G1	TITLE SHEET	LS8	SECTIONS -3-
G2	REGIONAL LOCATION MAP	LS9	SECTIONS -4-
G3	LOCATION PLAN AND INDEX OF DRAWINGS	LS10	DETAILS -1-
		LS11	DETAILS -2-
	LANDSCAPE ARCHITECTURAL		
LS1	SPECIFICATION NOTES		GEOTECHNICAL
LS2	PLAN -1-	GT1	GEOTECHNICAL NOTES
LS3	PLAN -2-	GT2	GEOTECHNICAL DETAILS
LS4	PLAN -3-		
LS5	PLAN -4-		
LS6	SECTIONS -1-	1	
LS7	SECTIONS -2-	1	

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SPECIFICATION NOTES:

A. GENERAL

1. TIDES

Spring High Water 2.41' Elevation N.A.V.D. Mean High Water 2.08' Elevation N.A.V.D. Mean Low Water -2.92' Elevation N.A.V.D.

2. SITE ACCESS

- a. A maximum of 15 parking stalls adjacent to the construction site fenceline, will be available for closure at any one time.
- The Contractor shall remove limited portions of the existing chainlink fence, of the edge of the Howland Hook Morine Terminal parking area, to access Bridge Creek Channel.
- c. Fence fabric shall be re-attached to existing fence posts at the end of each work day as required to maintain terminal security after hours.
- d. The construction site fenceline will be inspected at the end of each work day and approved by the Engineer as satisfactory for terminal security, prior to the Contractor's daily departure from the construction site.

3. MAINTENANCE OF EXISTING UTILITIES AND WESTERN AVENUE

- a. The Contractor shall verify the location and depth of all existing utilities within the Area of Work, prior to commencement of Work, using the New York One Call System – Code 53.
- Sequence, coordinate and conduct excavation and grading operations such as to maintain continuous public safety, access, drainage and utility services to existing facilities requiring these services.
- c. The Contractor shall verify the location and depth of all utilities prior to commencement of Work and exercise all necessary precoutions when working next to existing utility lines and other structures to vooid domaging them. Any interference with Work to be done under this Contract shall be brought to the statistic or of the Engineer immediately.
- d. The Contractor shall maintain safe clearances from overhead electrical lines at all times and take the necessary precautions against injury and damage. Structures or poles supporting overhead lines shall be protected.
- Any existing utilities damaged by the Contractor's operations shall be repaired as directed by the Engineer at no additional cost to the Authority.
- f. Utilize a mobile sweeper and water truck, twice daily, for dust control and maintaining the Western Avo. Houl Route free from debris caused by the

B. SPECIFICATION SECTION 02221 — EXCAVATION, BACK FILLING AND FILLING THE FOLLOWING INFORMATION SUPERSEDES INFORMATION SHOWN OR NOT INCLUDED IN THIS SPECIFICATION SECTION.

GENERA

- At no time during construction shall any timber mats, construction materials, vehicles or equipment be stored at the construction site.
- Dewatering or disruption of the normal twice daily tidal movement due to the construction of dikes or other construction activities within Bridge Creek is prohibited.
- All Contractor operations shall only be permitted within the construction site as shown on the Contract Drawings, unless otherwise approved by the Engineer.

2 WORK SEQUENCING PLAN

- a. Prior to commencement of Work, The Contractor shall submit to the Engineer, a Work Sequencing Plan showing proposed sequence of work and access points required through secured areas along Bridge Creek, and a list including methods and types of equipment to be used to accomplish the Work, as shown on the Contract Drawings, to the Engineer for review and approval. The Contractor shall not commence Work without receipt of written approval for the Work Sequencing Plan by the Engineer.
- b. The following sequence of Contractor's operations is required unless otherwise approved in writing by the Engineer:
- Submit an approved Haul Route Sequencing Plan, including timber mot road locations and typical sections and details of timber mats.
- 2.) Temporary Turbidity Curtains
 - Temporary turbidity curtains shall consist of a double curtain, installed within Bridge Creek, just outside the limits of the Contractor's excavation and reprofiling operations.
 - b.) Submit an approved turbidity curtain and Plan designating proposed placement locations along Bridge Creek.
- Remove all temporary timber mat roads, turbidity curtains and all other materials and equipment from the construction site, upon completion and approval of excavation and grading operations.

C. EXCAVATION, REPROFILING AND GRADING OPERATIONS

- Stake out excavation, reprofiling and grading limits of Bridge Creek, Bridge Creek side—slopes and gabion retaining wall for approval by the Engineer. The Contractor shall obtain written approval, by the Engineer, prior to commencement of any excavation, reprofiling or grading operations.
- Prior to commencement of excavation/grading operations the Contractor shall install temporary turbidity curtains, at locations along Bridge Creek to prevent materials from grading/excavation operations from washing down stream.
- Excovote, reprofile and grade soil and install gobion retaining walls as required to establish grades as designated on Contract Drawings LS2, LS3, LS4 and LS5.
 Obtain Engineer's operand of finished grade elevetions.
- Install gabion retaining wall as shown on Contract Drawings LS4, LS5, LS6, LS7 and LS8 and as per Contract Drawings GT1.
- Reprofiled Bridge Creek side-slopes of 1:2 gradient (or steeper) shall receive rip-rap as per Detail D2 on Contract Drawing LS10.

(C. EXCAVATION, REPROFILING AND GRADING OPERATIONS; Continued:)

6. TEMPORARY SEDIMENT AND EROSION CONTROLS

- a. Prior to commencement of excevotion/grading operations the Contractor shall install temporary turbidity curdains, at locations along Bridge Creek to prevent materials from grading-excevotion operations from washing down or up stream. Install and maintain temporary turbidity curtains throughout the duration of Contractor's operations of the construction site.
- The Contractor shall install Temporary Sediment Controls as per Details D1 and D2 on Contract Drawing LS10 and as follows:
 - 1.) Install continuous silt fencing between Area of Work and existing construction,
 - 2.) Install hay bales along creek bed edges © base of creek side slopes.
 - 3.) Install continuous silt fence/hay bales around periphery of stockpiled soils
 - Install continuous sit fence/hip beles around periphery of crea stated to receive stockpiled soils and fill. Mointain continuous Temporary Sediment Controls through duration of grading operations and 85% vegetative cover of fill areas and Bridge Creek side-slopes.
- c. Temporary turbidity curtains and sediment controls shall be maintained throughout the duration of Contractor's operations at the construction site and include the removals of all temporary turbidity curtains and sediment controls upon acceptance of the Work by the Engineer.

7. EXCAVATED SO

- install gabion retaining wall prior to transporting excavated soils and installing within areas slated to receive fill, as per Contract Drawings LS4, LS5, LS6, LS7, LS8 and GT1.
- Install and maintain continuous, temporary sediment controls at the peripheral edges of disturbed grades and fill areas using hay bales and slit fence as per Contract Drawing LSTO, Detail D1.
- c. The Contractor shall maintain temporary turbidity curtains and sediment controls, continuously throughout the duration of Work, until final grades are established and installed soils are stabilized with erosion control mat and seeded as shown on Contract Drawing US2 through LS9.
- After excovation and reprofiling operations, Bridge Creek shall have a continuous, minimum width, at creek bottom, of 15'-0' and constant grade of EL + 0.50., unless otherwise shown on the Contract Drawings. Finish grade elevations shall be within +/- 0.10' of elevations shown on Contract Drawings 152, 1.53, 1.54 and LSS. OVER-EXCAVATION MILL MOT EE PERMITTED - NO EXCEPTIONS.
- After excavated soil materials are installed within areas sloted to receive fill, apply a three inch depth of screened topsoil on the surface within the limits of the areas sloted to receive fill. Screened topsoil shall be as per Specification Section 02920.

11. FIELD VERIFICATION

- a. Following the completion of earthwork, the Contractor shall survey the limits and elevations within the limits of reprofiled Bridge Creek, Bridge Creek side—slopes and areas stated to receive fill as shown on Contract Drawing 125, LS3 LS4 and LS3. The Contractor shall provide a Survey Plan at 1"=30"-0" scale to the Foliager for program prior to comprehense the section postering the program of the comprehense of the section posterior.
- b. The Contractor shall provide a field verification survey prepared by a surveyor approved by the Engineer. The Contractor shall submit the name, address and telephone number of surveyor to provide the field verification survey to the Engineer for approval. The Contractor shall not commence with field verification surveys until the Engineer has approved the Contractor's surveyor in writing.
- c. The Contractor shall not commence with seeding operations until the Survey Plan is approved in writing by the Engineer.
- 12. Seeding shall commence only after: (1) all excavation is completed (2) earthwork, reprofiling creek and sideslopes and grading fill areas are approved in writing by the Engineer and (3) seeding is within the planting calendar limitations specified in Specification Section 02930 Appendix 'B'.
- 13. If seeding operations cannot occur within the calendar dates stated in Appendix 'B' of Specification Section 02930, the Contractor shall apply a sail stabilizer to all areas sloted to receive seed and maintain all temporary sediment controls at the work site, until seeding can occur. Sail stabilizer shall be as per Specification Section 02930.

D. SPECIFICATION SECTION 02930 - SEEDING

THE FOLLOWING INFORMATION SUPERSEDES INFORMATION SHOWN OR NOT INCLUDED IN THIS SPECIFICATION SECTION:

- Prior to commencement of seeding operations, the Contractor shall obtain approval from the Engineer, on each location to receive seed.
- All areas to receive seed shall hove 'Rodeo' (glyphasate) applied as per the manufacturer's directions, 10 days prior to planting where ever weeds are present and only after the area has been approved for herbicide application by the Engineer.
- All seeded areas shall receive a two (2) inch depth of compost, incorporated into the top eight (8) inches of existing soils as follows:
 - a. Prepare sub grade as per Specification Section 02930, Part 3.01 B.
 - b. No heavy equipment except for rollers shall be moved over areas to receive seed after the sub grade soil has been prepared and before compost is spread
 - c. Spread two (2) inches of compost evenly over the entire area to receive seed and thoroughly incorporate into the top eight (8) inches of existing soils.
 - d. Mix hydrogel into the top two (2) inches of soil at the rate of one (1) pound per 1000 square feet.
- Incorporate fertilizer, compost and hydrogel into soil using a disc, rotatiller, etc., to a minimum depth of eight (8) inches.
- Level seed bed with a leveling plank pulled behind the disc, with a York rake or other suitable earth moving equipment. Perform all operations on the contour or perpendicular to the slope.

5. EROSION CONTROL - SEEDING ON SLOPES EXCEEDING 15%

- o. Erosion Control Mat and staples shall be as follows:
- Erosion Control Mat shall be 'Anti-Wash Geojute' as manufactured by Betton industries, Atlanta, GA 30350 and distributed by Bissett Corp., Holtsville, NY 11742 or an approved equal conforming to the following:

Property:	Test Method:	Typical Value/Units:
Yam Fiber		Woven jute, undyed/unbleach
Yarn Count - Warp		78 per width, minimum 42 per linear yard, minimum
- Weft		42 per linear yard, minimum
Color		Natural (Earthtone)
Fabric Roll Width		48 / inches
Fabric Weight		0.92 lbs. / sy
Grab Tensile Strength -Dry	ASTM D-4632 Worp	300 lbs. / ft.
Grab Tensile Strength - Wet	ASTM D-4632 Worp	125 lbs. / ft.
Open Areo	C.O.E. CW 002215	60 → 65%
Durability	Field Testing	1-2 years
Unit Shear Stress		0.45 lbs. / ft.

- Staples shall be 6" long, #11 gauge wire staples with a .091" wire thickness.
- Immediately after seeding areas with slopes exceeding 15% gradient, apply Erosion Control Mat as follows:
 - Secure Erosion Control Mat at the top of the slope by toeing it into existing grade a minimum of six (6) inches deep. Reinforce with a row of staples as per the manufacurer's directions and cover with soil.
 - 2.) Roll Erosion Control Mat down the slope.
 - Place stoples 18" 24" on-center throughout to secure the motting to the ground. All stoples to be must be driven flush with the soil surface.
 - Always overlap matting edges 4" 6". At the end of each roll, fold back 4" - 8" of the matting and overlap the start of the next roll. Securely staple the two loyers to the soil surface.
 - Erosion Control Mot shall be securely stapled flush to the soil surface without bunching. Bunching of Erosion Control Mot shall not be permitted.

E. NET COST WORK

- Net Cost* shall be computed in the same manner as is compensation for Extra Work, including any percentage addition to cost, as set forth in the clouse of the Contract entitled Compensation for Extra Work. Performance of such Net Cost Work shall be as directed by the Engineer and subject to all the provisions of the Contract relating to the performance of Extra Work. Compensation, for said Net Cost Work shall not be charged against the total amount of compensation authorized for Extra Work.
- When and as directed by the Engineer, the Contractor shall perform the fallowing Work which will be compensated at the Net Cost thereof:
 - a.) Removal of all litter, trash, debris and other deleterious materials, including but not limited to: giass, cans, plastic containers, wrack, timbers, tree branches, from within the Area of Work, as shown on Contract Drawings 152, L53, L54 and L55. The Contractor shall discard of all removal materials away from Authority property in a lead manner.
 - b.) Cut-off existing timber piles located within Bridge Creek to EL. + 0.50 and discard of cuttings away from Authority property in a legal manner.
 - c.) Maintenance of Traffic
 - d.) Excess or Unsuitable Excavated Materials:
 - All excess soil or soil deemed unsuitable because of the presence of contamination shall be disposed of in accordance with Specification Section 02894 Hondling, Treatment and Disposal of Non-Hazardous Soil Material. The Contractor shall dispose of excess or unsuitable excavated material off Authority property.
 - 2.) The Contractor shall submit a minimum of three soil disposal/beneficial reuse facilities to the Engineer for soil disposal. The submittal shall include the facility name, contact with phone number, certification, license and or permit, transporter name, certification, license and or permit, and transportation and disposal cest.

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SPECIFICATION NOTES

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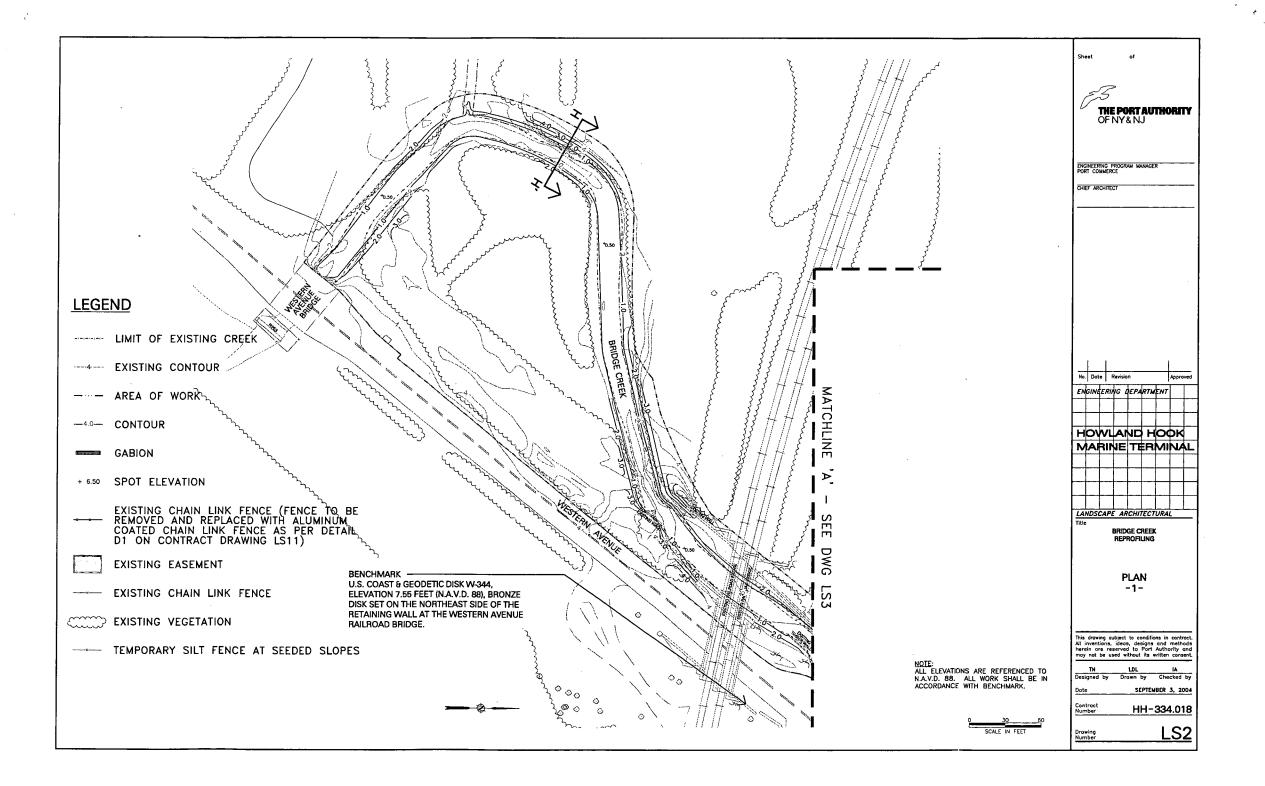
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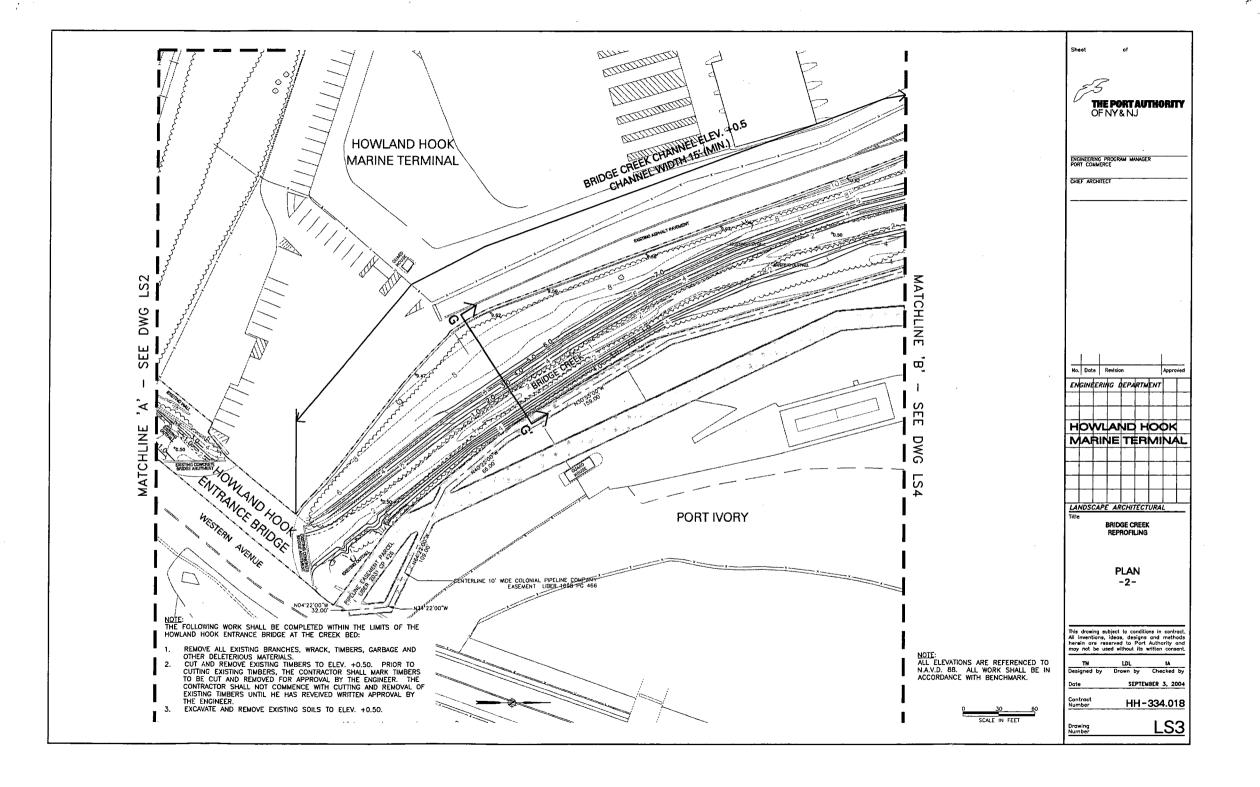
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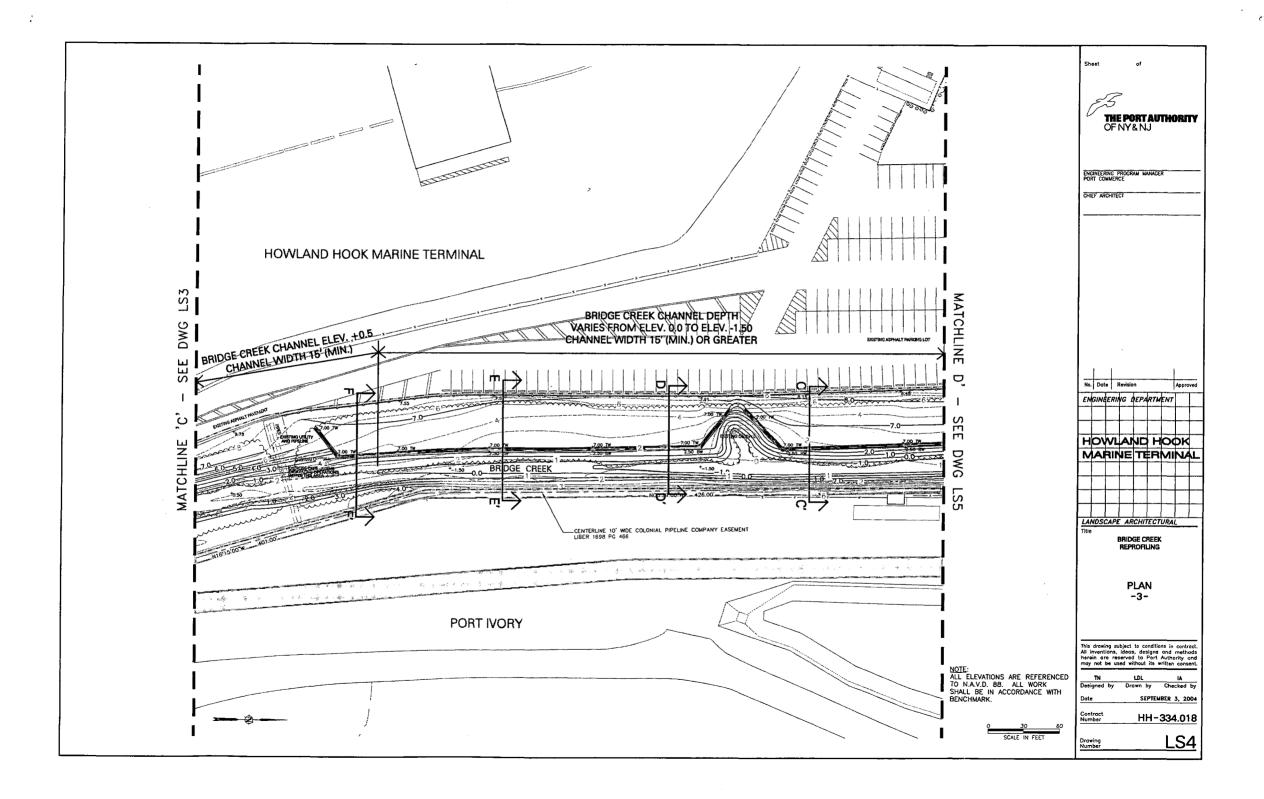
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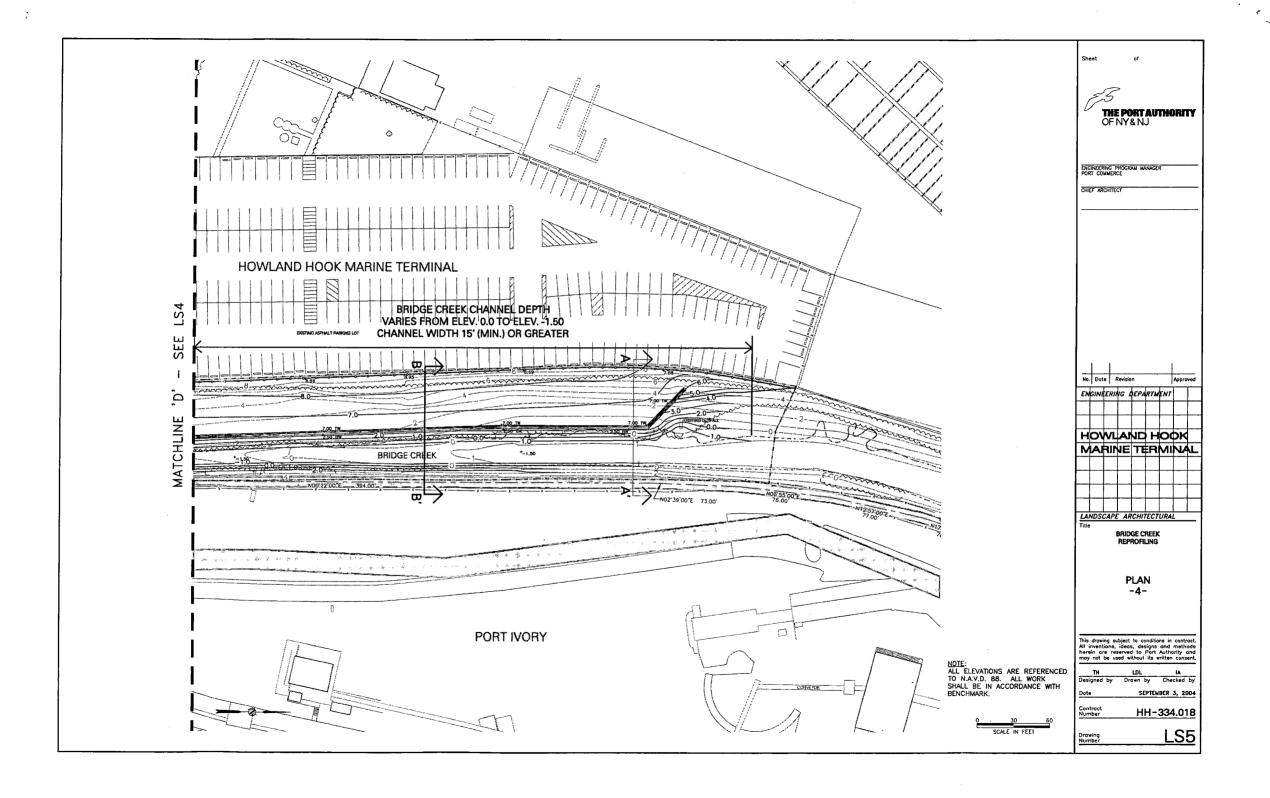
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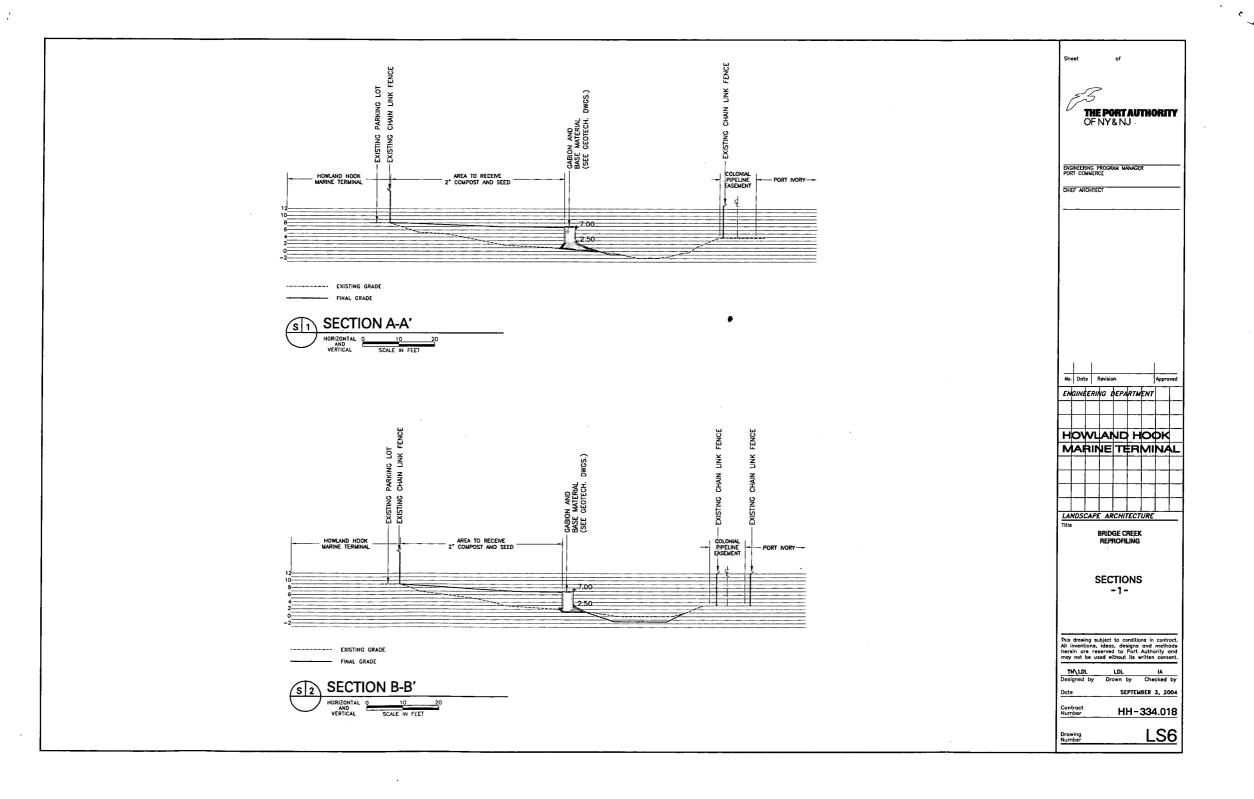
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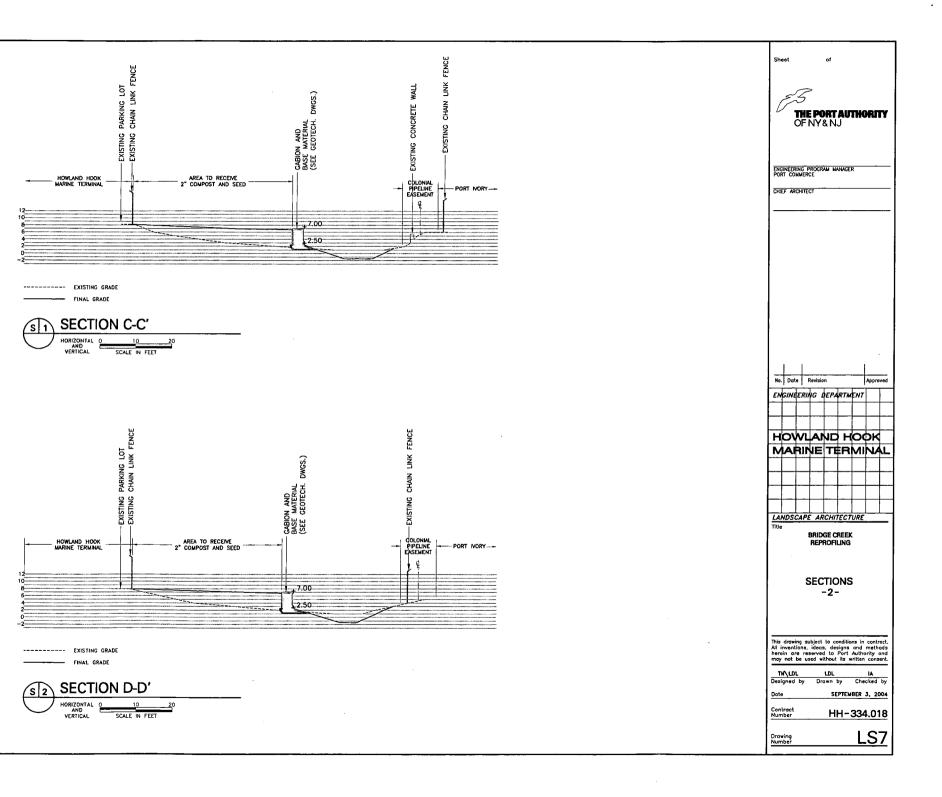


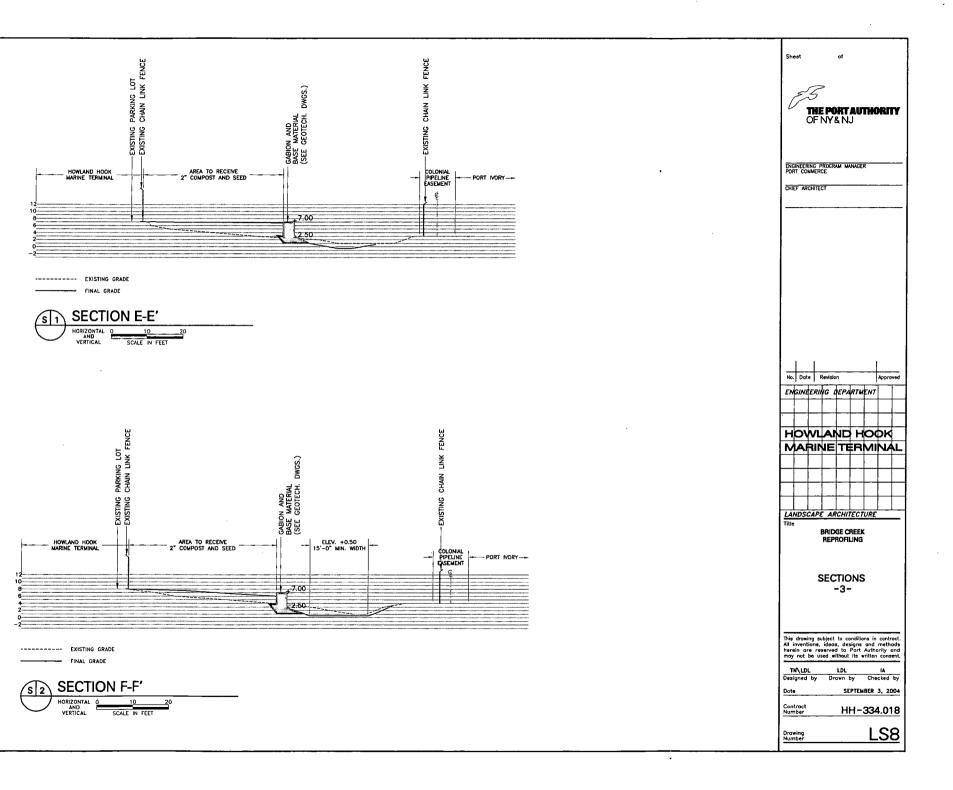


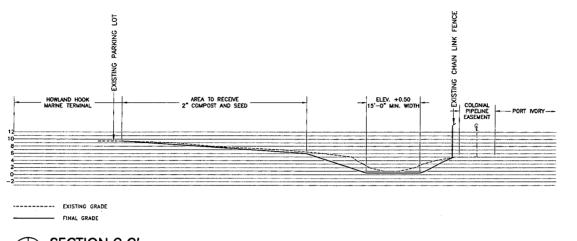


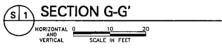


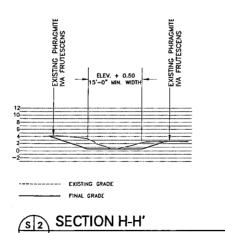






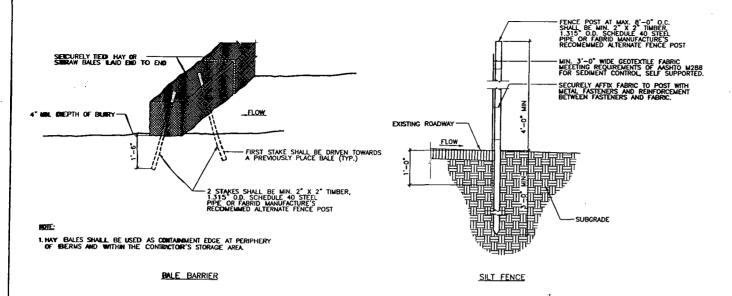






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TEMPORARY SEDIMENT BARRIER

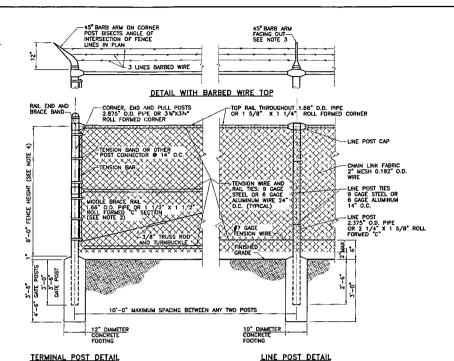
NOTES:

ERECT TEMPORARY SEDIMENT BARRIER WHERE SHOWN ON PLAN OR AS REQUIRED TO INTERCEPT AND DETAIN SEDIMENT RESULTING FROM CONTRACTOR'S OPERATION.

2. THE CONTRACTOR SHALL INSPECT, MAINTAIN REMOVE AND DISPOSE OF TEMPORARY SEDIMENT BARRIERS AND ACCUMULATED SILT AT NO ADDITIONAL COST TO THE AUTHORITY. DAMAGED BARRIERS SHALL BE

REMOVE BARRIER ONLY AFTER UPSLOPE SURFACES HAVE BEEN 3. STABILIZED AND/OR RESTORED. REMOVE BARRIER AND ACCUMILATED SILT TO FINISHED GRADE, AND RESTORE SURFACE TO PRE-EXISTING CONDITION OR AS SHOWN ON THE CONTRACT DRAWNINGS.

Sheet of THE PORT AUTHORITY OF NY & NJ
DIGINEERING PROGRAM MANAGER PORT COMBERGE CHEF ARCHITECT
No. Date Revision Approved ENGINEERING DEPARTMENT
HOWLAND HOOK MARINE TERMINAL LANDSCAPE ARCHITECTURAL Title BRIDGE CREEK REPROFILING
DETAILS -1-
This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent. Th LDL IA Designed by Drawn by Checked by Date SEPTEMBER S, 2004 Contract Number HH-334.018



D 1	ALUMINUM COATED STEEL CHAIN LINK FENCE
. /	Not to Scale

GATE POSTS							
PIPE	SIZE	SWING GAT	E OPENINGS				
NOM. O.D. PIPE	WEIGHT LB/FT	SINGLE GATE	DOUBLE GATE				
2.875"	5.79	UP THRU 6"	UP THRU 12				
4.000	9.11	7 THRU 13'	13 THRU 26				
6.625	18.97	14 THRU 18'	27 THRU 36				
8.625"	28.55	19 THRU 32"	37 THRU 64				

NOTES:

- PIPE SECTIONS SHOWN ARE ASTM F1083 FOR STANDARD
 WEIGHT (SCHEDULE 40) PIPE. EQUIVALENT STEEL SECTIONS
 FOR FRAME SHALL BE BASED ON PIPE SECTION SHOWN
 (SEE SPECIFICATIONS).
- MIDDLE AND BOTTOM BRACE RAILS AND BRACE ROD ON ONE BAY EACH SIDE OF CORNER, END, PULL AND GATE POSTS ONLY.
- ALL FENCE TOPPED WITH BARBED WIRE SHALL BE INSTALLED ONE FOOT INSIDE PROPERTY LINE.
- 4. UNLESS OTHERWISE SHOWN ON PLANS.

THE PORT AUTHORITY OF NY & NJ CHIEF ARCHITECT No. Date Revision ENGINEERING DEPARTMENT HOWLAND HOOK MARINE TERMINAL LANDSCAPE ARCHITECTURAL BRIDGE CREEK REPROFILING **DETAILS** -2-This drawing subject to conditions in contract.
All inventions, ideas, designs and methods
herein are reserved to Port Authority and
may not be used without its written consent. TN LDL IA

Designed by Drawn by Checked by SEPTEMBER 3, 2004 HH-334.018 **LS11**