



# 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-2014-00081-WCA  
Issue Date: **July 8, 2014**  
Expiration Date: **August 6, 2014**

## 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), Section 404 of the Clean Water Act (33 U.S.C. 1344).

**APPLICANT:** Federal Aviation Administration  
ESA Terminal Engineering Center AJW-E11D  
College Park, Georgia 30337

**ACTIVITY:** Discharge fill into 2.79 acres of non-tidal waters of the United States to facilitate the construction and installation of a new Airport Traffic Control Tower and associated paved parking area and outfall structures.

**WATERWAY:** East Riser Ditch (Hackensack River Watershed)

**LOCATION:** Borough of Teterboro, Moonachie and Little Ferry, Bergen County, New Jersey.

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.

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

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). Based on a preliminary review of the "Guide to Essential Fish Habitat Designations in the Northeastern United States", issued by the National Oceanic and Atmospheric Administration/National marine Fisheries Service (NOAA/FS), it appears that the proposed activities within the project area would not impact EFH for any of the aquatic species or their life stages as the project area is located above an existing tide gate and is not subject to tidal flow. Further consultation with NOAA/FS regarding EFH impacts and conservation recommendations is being conducted and will be concluded prior to the final decision.

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

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

Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended [16 U.S.C. 1456 (c)], for activities under consideration that are located within the coastal zone of a state which has a federally approved coastal zone management program, the applicant has certified in the permit application that the activity complies with, and will be conducted in a manner that is consistent with, the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification. No permit decision will be made until one of these actions occurs. For activities within the coastal zone of New Jersey State, the applicant's certification and accompanying information is available from the New Jersey Department of Environmental Protection, Coastal Management Program, P.O. Box 418, 401 E. State Street, Trenton, NJ, 08625, Telephone (609) 633-2201. Comments regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

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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 Jersey Department of Environmental Protection Flood Hazard Area Individual Permit)

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)790-8412 and ask for James Cannon.

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

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



Jodi M. McDonald  
Chief, Regulatory Branch



Enclosures

### WORK DESCRIPTION

The applicant, the Federal Aviation Administration (FAA), has requested Department of the Army authorization to discharge fill material into waters of the United States to facilitate the construction and installation of a new Air Traffic Control Tower (ATCT) at the Teterboro Airport (TEB). The proposed project site is located in the Boroughs of Teterboro and Moonachie, Bergen County, New Jersey.

The applicant has stated the following: The existing TEB ATCT was constructed in 1974 as a temporary structure with a 15-year life expectancy. The replacement of the existing TEB ATCT tower is one of the highest FAA priority projects in the United States. The existing ATCT no longer provides the required height to allow optimal visibility or line of sight (LOS) to the airport air traffic control tower operators which is a critical safety factor in daily operations during aircraft approach and landing activities. As a result, the periodic topping (cutting) of trees which obstruct the air traffic controllers' view of runways is required. In addition, the existing ATCT is extremely overcrowded with inadequate space for daily operations and the ongoing need to upgrade and replace air traffic control equipment. The site was selected based on the FAA's Airport Traffic Control Tower Siting Order 6480.4B. This order establishes requirements for determining site location, tower height and cab orientation of new or replacement ATCTs. The current site layout was prepared in accordance with the current Blast Mitigation and Exterior Setback Interim Policy to FAA Order 1600.69B and the FAA Security Memorandum dated April 16, 2012 specifying the required interior and exterior setbacks.

The purpose of the proposed project is to construct a new ATCT to replace the existing outdated tower and provide a facility that accommodates modern technology to ensure safe airport operations.

Proposed ATCT Construction Activities: As part of the proposed regulated activities associated with construction of the new ATCT, the applicant proposes to discharge approximately 12,800 cubic yards of fill material into approximately 2.79 acres of waters of the United States to facilitate the raising of the proposed construction area to approximately 9.0 feet North American Vertical Datum 1988 (NAVD88). Upon completion of the fill and grading activities, the applicant proposes to construct and install a new 32-foot diameter ATCT; a 98-foot long by 83-foot wide two-story base building with associated paved parking (that would accommodate 61 vehicles); a 20-foot wide emergency access perimeter road that would surround the ATCT; and a 45-foot long by 38-foot wide bridge span that would be constructed over waters of the United States (East Riser Ditch) from Fred Wehran Drive. Of the approximately 2.79 acres of waters of the United States that would be permanently impacted as a result of the proposed project, approximately 2.66 acres would be non-tidal forested wetlands, and 0.13 acres would be non-tidal open water. As part of the ATCT installation activities, approximately 25 cubic yards of fill material would be discharged into approximately 0.01 acres of waters of the United States to facilitate the construction and installation of two 24-inch diameter outfall structures with associated concrete headwalls and rock riprap scour protection.

Compensatory Mitigation: To compensate for the 2.66 acres of non-tidal forested wetlands, and 0.13 acres of non-tidal open water, the applicant proposes the following: The establishment of 6 acres of non-tidal forested wetlands at a 13.2 acre site situated upstream of a tide gate located along the Losen Slote (a tributary of the Hackensack River), in the Borough of Little Ferry, Bergen County, New Jersey. The proposed mitigation site currently consists of a 7.8 acre upland old field area, a 3.6 acre upland forested area, and a 0.1 acre gravel/paved parking area. Existing on-site wetlands include a 0.6 acre common reed (*Phragmites australis*) dominated non-tidal wetland that was formed as a result of surface water ponding on the upslope side of a

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soil mound on the site. Compensatory mitigation activities at the site would include the clearing and grading of the existing upland old field, upland gravel and paved areas, as well as the common reed dominated wetland area. No mitigation activities would occur within the existing upland forested area. The grading of the site would be performed to an elevation sufficient to allow adequate wetland hydrology. Planned planting of the mitigation site would include hydrophytic vegetation such as saplings, shrubs and herbaceous vegetation salvaged from the impact site and transported to the mitigation site for planting. Additional native hydrophytic nursery stock (vegetation) would also be planted at the proposed mitigation site and the area would be seeded with native grasses to establish vegetative cover. The applicant additionally proposes to remove topsoil from the impact site and transport it to the mitigation site for placement and use as part of the development of the mitigation area.

In regards to avoidance and minimization of the project design and location, the applicant stated the following: There are no similar, less constrained locations for the needed ATCT which provide sufficient height and siting that would enhance safety and efficiency while providing adequate depth perception, line of sight, and visibility of all movement and non-movement areas of the airport. The FAA conducted an environmental impact assessment and reviewed numerous alternative tower locations before the preferred location for the new ATCT was selected. As documented in FAA's Final Siting Report dated August 28, 2012, the existing ATCT was determined to be too small and was of insufficient height to provide adequate view of the air field. The no-build or no action alternative was also considered and although the no-build alternative would not result in wetland impacts, it would not meet the project purpose and need.

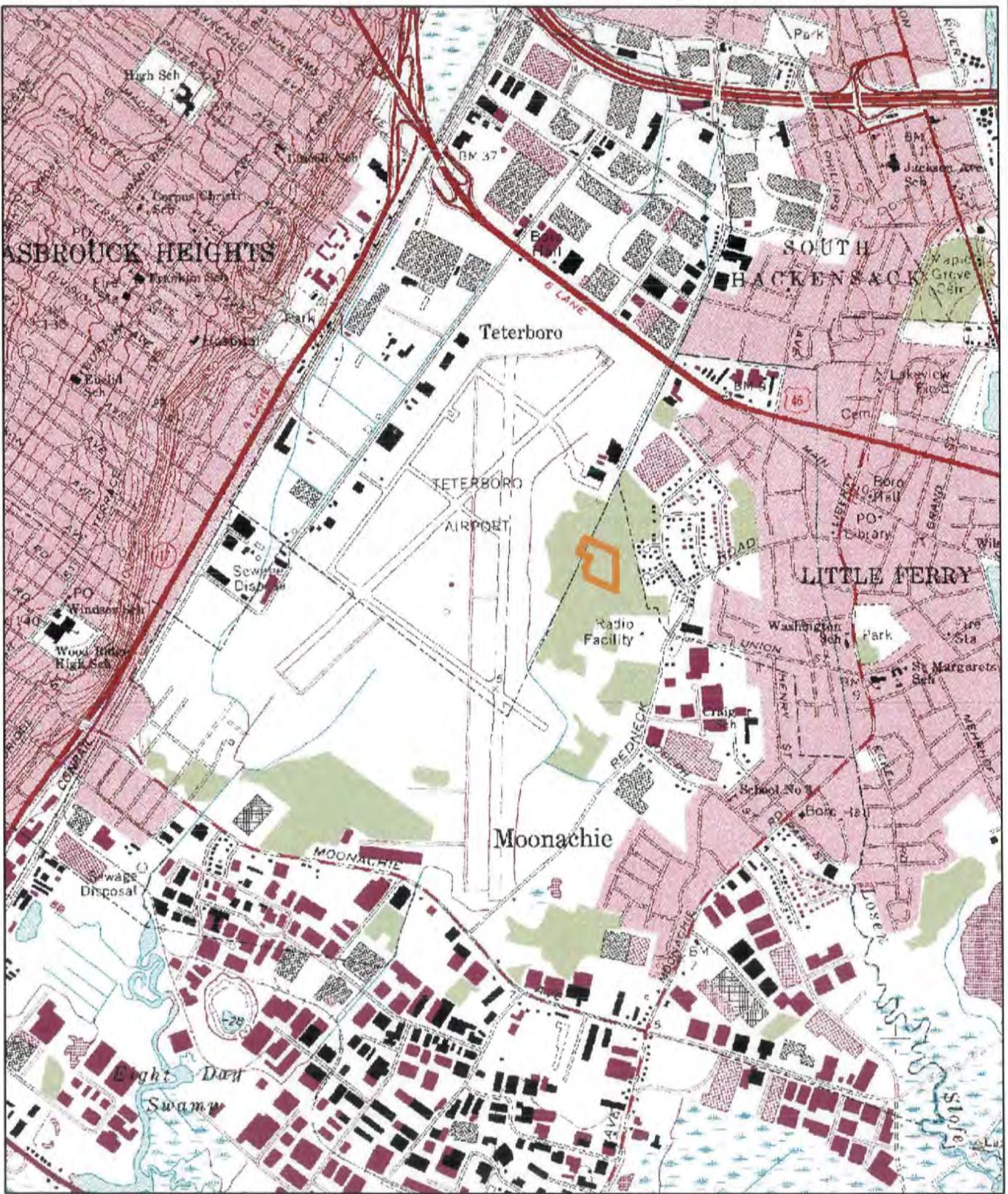
Sixteen alternative tower locations were evaluated throughout the TEB. This evaluation addressed visibility performance requirements, federal laws, regulations, orders and standards that pertain to the location of an ATCT, as well as operational requirements. The sixteen alternative tower locations were evaluated at FAA's Airport Facilities Terminal Integration Laboratory (AFTIL) in 2010. Of the sixteen alternative tower locations only three were determined suitable for a more detailed evaluation. This additional evaluation included a determination of the requisite eye level elevations in order to meet the visual requirements of FAA Order 6480.4A, and a determination of potential obstructions as defined in Federal Aviation Regulations Part 77. A safety risk management assessment was also conducted at all three sites.

Based on this additional evaluation, all three alternative tower locations (which includes the preferred tower location) would result in the permanent loss of forested wetlands, filling of the floodway and flood fringe, reduction of pervious area, and the alteration of a ditch (created for mosquito control and agriculture uses). As a result, it was necessary to construct a crossing over East Riser Ditch for all three sites. The preferred tower location alternative was chosen because it was the closest to Fred Wehran Drive, the access road because it was shorter, and impacts to forested wetlands would be reduced.

Following site selection, the ATCT site layout was refined to minimize wetland impacts. Design strategies incorporated into the design included a refined site layout, a 2-story base building, a lower elevation for the access road and parking area, a reduced on-site parking area, and reduced security buffer.

Additionally evaluated was the construction of a new tower immediately adjacent to the existing tower. This alternative however was eliminated because the construction of a new tower would create an obstruction to the sight line from the existing ATCT, thereby creating a hazard for the control operators.

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### Legend

— Proposed Airport Traffic Control Tower Location

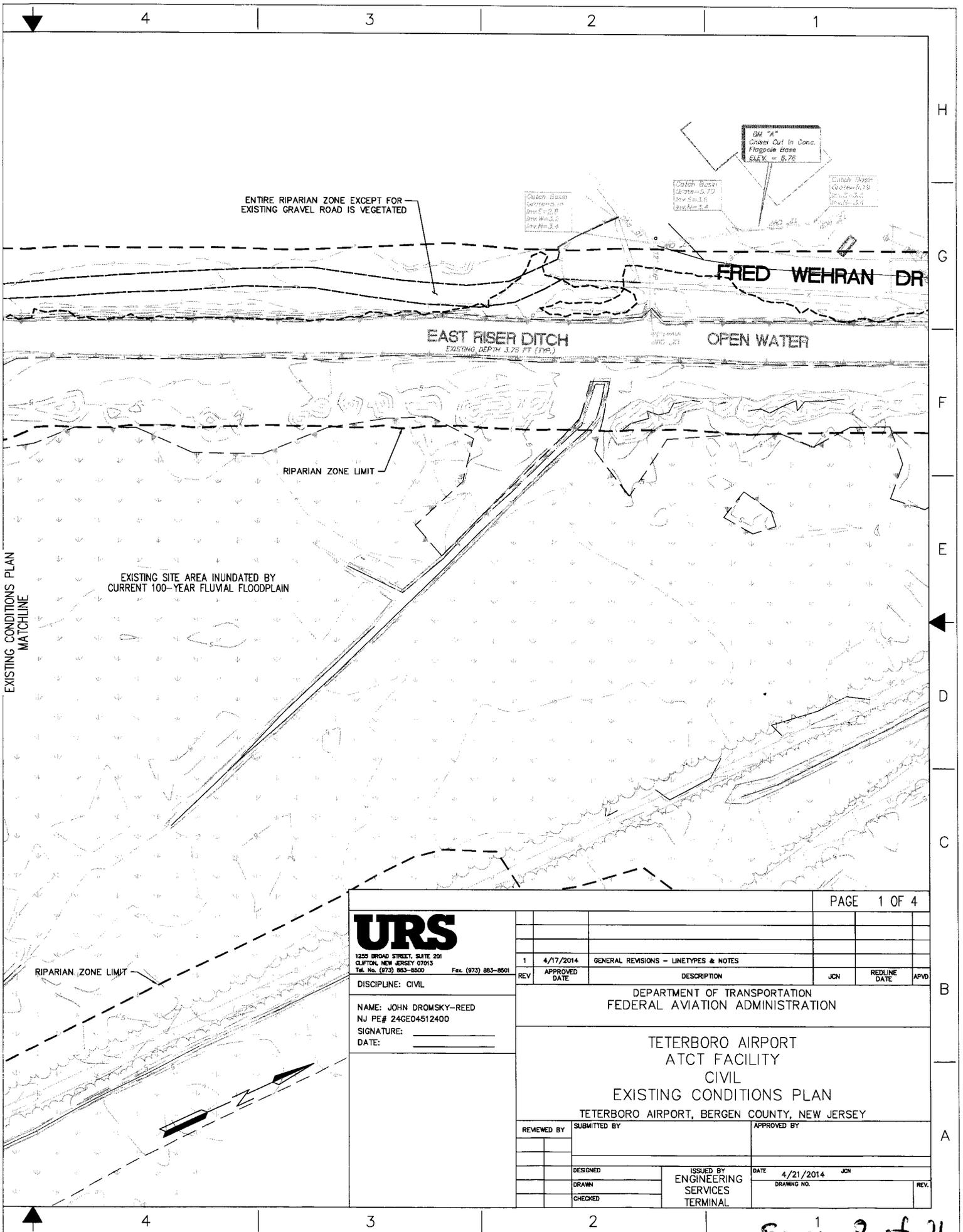


USGS Topographic Map  
 Teterboro Airport  
 Moonachie, Bergen County, New Jersey

Map Source:  
 USGS Topographic Quadrangle Weehawken  
 NJ-NY



Figure 1 of 21



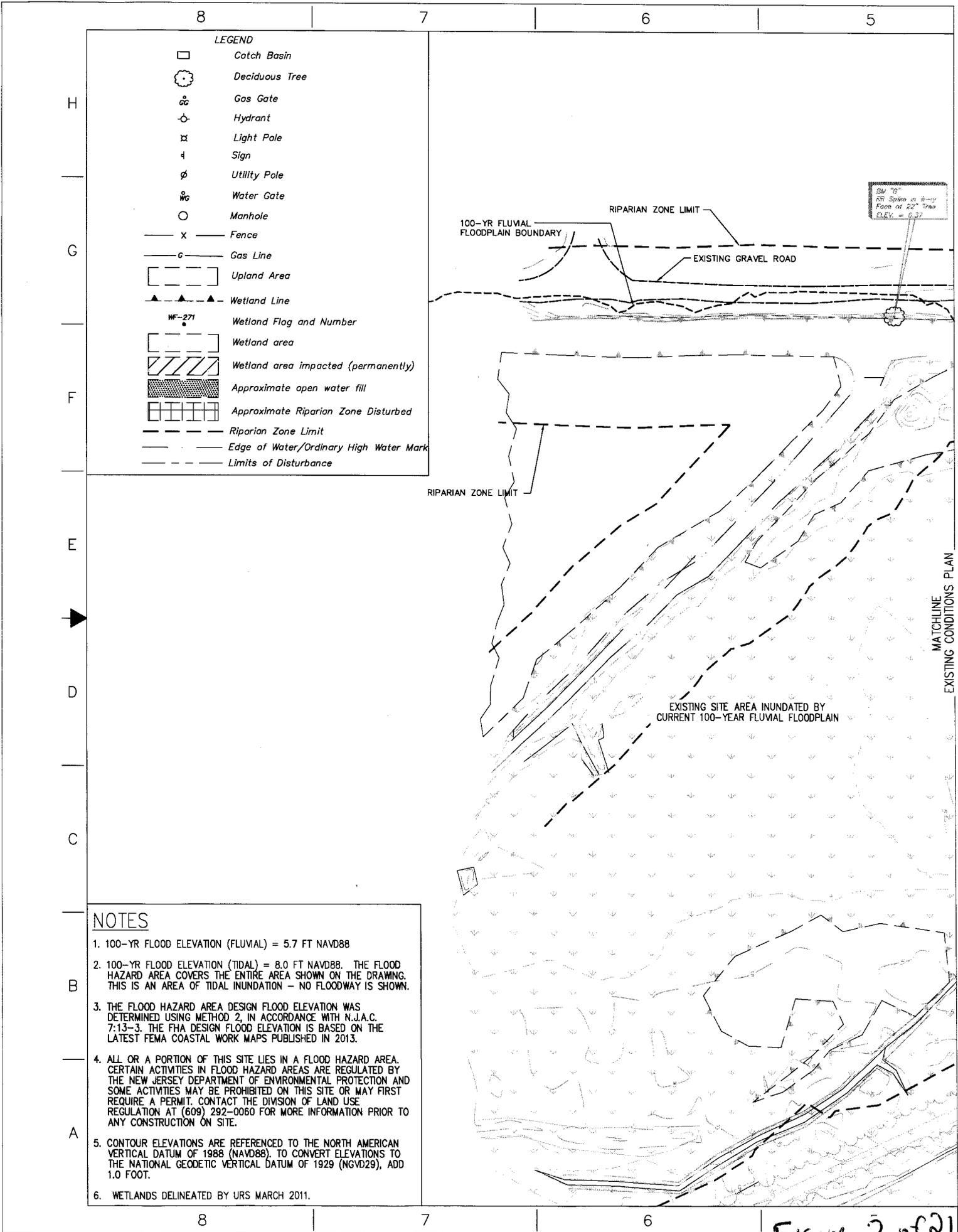
**URS**

1255 BROAD STREET, SUITE 201  
CLIFTON, NEW JERSEY 07013  
Tel. No. (973) 883-8800 Fax. (973) 883-8801

DISCIPLINE: CIVIL  
NAME: JOHN DROMSKY-REED  
NJ PE# 24GE04512400  
SIGNATURE: \_\_\_\_\_  
DATE: \_\_\_\_\_

				PAGE 1 OF 4	
1	4/17/2014	GENERAL REVISIONS - LINETYPES & NOTES			
REV	APPROVED DATE	DESCRIPTION		JCN	REDLINE DATE
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
TETERBORO AIRPORT ATCT FACILITY CIVIL EXISTING CONDITIONS PLAN TETERBORO AIRPORT, BERGEN COUNTY, NEW JERSEY					
REVIEWED BY		SUBMITTED BY		APPROVED BY	
DESIGNED	ISSUED BY		DATE	JCN	
DRAWN	ENGINEERING SERVICES TERMINAL		4/21/2014		
CHECKED			DRAWING NO.	REV.	

Figure 2 of 21



**LEGEND**

- Catch Basin
- Deciduous Tree
- Gas Gate
- Hydrant
- Light Pole
- Sign
- Utility Pole
- Water Gate
- Manhole
- Fence
- Gas Line
- Upland Area
- Wetland Line
- Wetland Flag and Number
- Wetland area
- Wetland area impacted (permanently)
- Approximate open water fill
- Approximate Riparian Zone Disturbed
- Riparian Zone Limit
- Edge of Water/Ordinary High Water Mark
- Limits of Disturbance

BW "B"  
 RR Spike at 22" Tree  
 ELEV. = 6.37'

100-YR FLUVIAL FLOODPLAIN BOUNDARY  
 RIPARIAN ZONE LIMIT  
 EXISTING GRAVEL ROAD

RIPARIAN ZONE LIMIT

EXISTING SITE AREA INUNDATED BY CURRENT 100-YEAR FLUVIAL FLOODPLAIN

MATCHLINE  
 EXISTING CONDITIONS PLAN

**NOTES**

1. 100-YR FLOOD ELEVATION (FLUVIAL) = 5.7 FT NAVD88
2. 100-YR FLOOD ELEVATION (TIDAL) = 8.0 FT NAVD88. THE FLOOD HAZARD AREA COVERS THE ENTIRE AREA SHOWN ON THE DRAWING. THIS IS AN AREA OF TIDAL INUNDATION - NO FLOODWAY IS SHOWN.
3. THE FLOOD HAZARD AREA DESIGN FLOOD ELEVATION WAS DETERMINED USING METHOD 2, IN ACCORDANCE WITH N.J.A.C. 7:13-3. THE FHA DESIGN FLOOD ELEVATION IS BASED ON THE LATEST FEMA COASTAL WORK MAPS PUBLISHED IN 2013.
4. ALL OR A PORTION OF THIS SITE LIES IN A FLOOD HAZARD AREA. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT THE DIVISION OF LAND USE REGULATION AT (609) 292-0060 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ON SITE.
5. CONTOUR ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). TO CONVERT ELEVATIONS TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29), ADD 1.0 FOOT.
6. WETLANDS DELINEATED BY URS MARCH 2011.

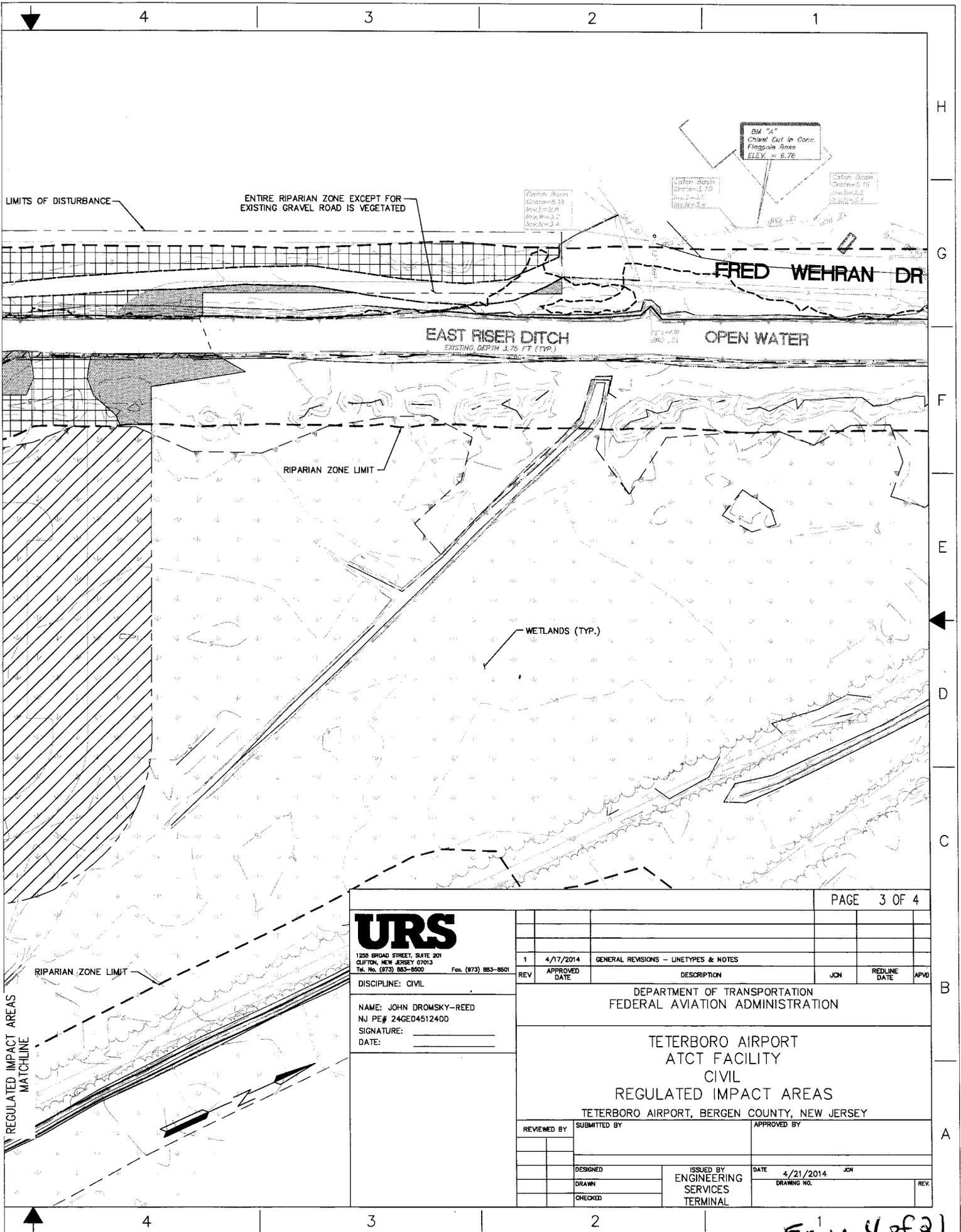


Figure 4 of 21

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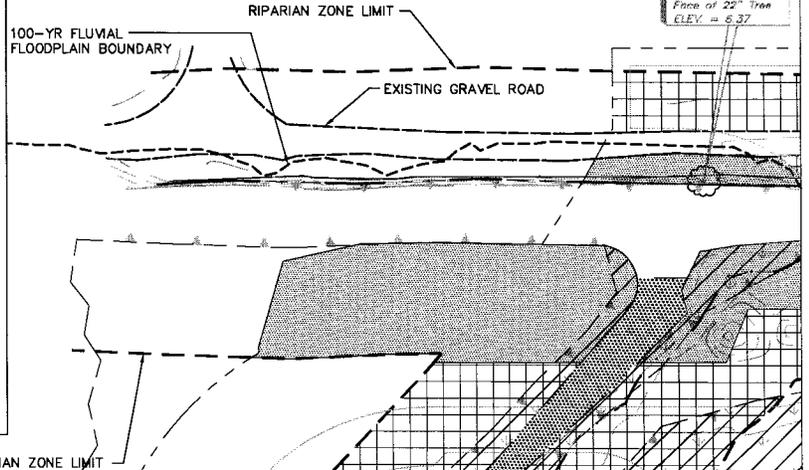
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6

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LEGEND

- Catch Basin
- Deciduous Tree
- Gas Gate
- Hydrant
- Light Pole
- Sign
- Utility Pole
- Water Gate
- Manhole
- Fence
- Gas Line
- Upland Area
- Wetland Line
- Wetland
- Wetland impact (permanent)
- Open water fill (permanent)
- Riparian Zone impact (temporary)
- Riparian Zone impact (permanent)
- Riparian Zone Limit
- Edge of Water/Ordinary High Water Mark
- Limits of Disturbance



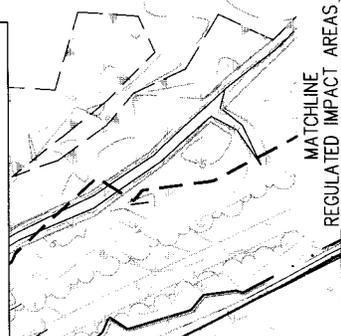
NOTES

1. 14,360 SQUARE FEET BUILDING
2. 2-STORY FOOTPRINT = 7,180 SQUARE FEET
3. 9.0 NAVD - FINISHED FLOOR
4. 58 STANDARD PARKING SPACES
5. 3 HANDICAP PARKING SPACES
6. 1.61 ACRES IMPERVIOUS AREA INCREASE
  - 1.74 ACRES TOTAL IMPERVIOUS
  - 0.13 ACRES EXISTING IMPERVIOUS (GRAVEL RD)
  - 1.61 ACRES NEW IMPERVIOUS
7. 4.37 ACRES PROJECT AREA (LIMITS OF DISTURBANCE)
8. 0.00 ACRES OF TEMPORARY WETLAND DISTURBANCE
9. 2.66 ACRES OF PERMANENT WETLAND DISTURBANCE
10. 0.00 ACRES OF TEMPORARY OPEN WATER DISTURBANCE
11. 0.13 ACRES OF PERMANENT OPEN WATER DISTURBANCE (FILL)
12. 0.38 ACRES OF TEMPORARY VEGETATED RIPARIAN ZONE DISTURBANCE
13. 1.14 ACRES OF PERMANENT VEGETATED RIPARIAN ZONE DISTURBANCE
14. TEMPORARILY IMPACTED RIPARIAN ZONE WILL BE REVEGETATED WITH PERMANENT SEEDING AND PROTECTED BY STANDARD EROSION AND SEDIMENT CONTROL MEASURES.
15. DISTURBED WETLAND AREA THAT OVERLAPS DISTURBED RIPARIAN ZONE = 0.56 ACRES
16. APPROXIMATELY 12,800 CUBIC YARDS OF FILL PLACED IN WETLAND
17. APPROXIMATELY 15,000 CUBIC YARDS OF FILL PLACED ON SITE
18. 100-YR FLOOD ELEVATION (FLUVIAL) = 5.7 FT NAVD88
19. 100-YR FLOOD ELEVATION (TIDAL) = 8.0 FT NAVD88. THE FLOOD HAZARD AREA COVERS THE ENTIRE AREA SHOWN ON THE DRAWING. THIS IS AN AREA OF TIDAL INUNDATION - NO FLOODWAY IS SHOWN.
20. THE FLOOD HAZARD AREA DESIGN FLOOD ELEVATION WAS DETERMINED USING METHOD 2, IN ACCORDANCE WITH N.J.A.C. 7:13-3. THE FHA DESIGN FLOOD ELEVATION IS BASED ON THE LATEST FEMA COASTAL WORK MAPS PUBLISHED IN 2013.
21. ALL OR A PORTION OF THIS SITE LIES IN A FLOOD HAZARD AREA. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT THE DIVISION OF LAND USE REGULATION AT (609) 292-0060 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ON SITE.

RIPARIAN ZONE LIMIT

CENTER OF ATCT  
 N 734911.73  
 E 615219.17  
 N040° 51' 09"  
 W074° 03' 18"

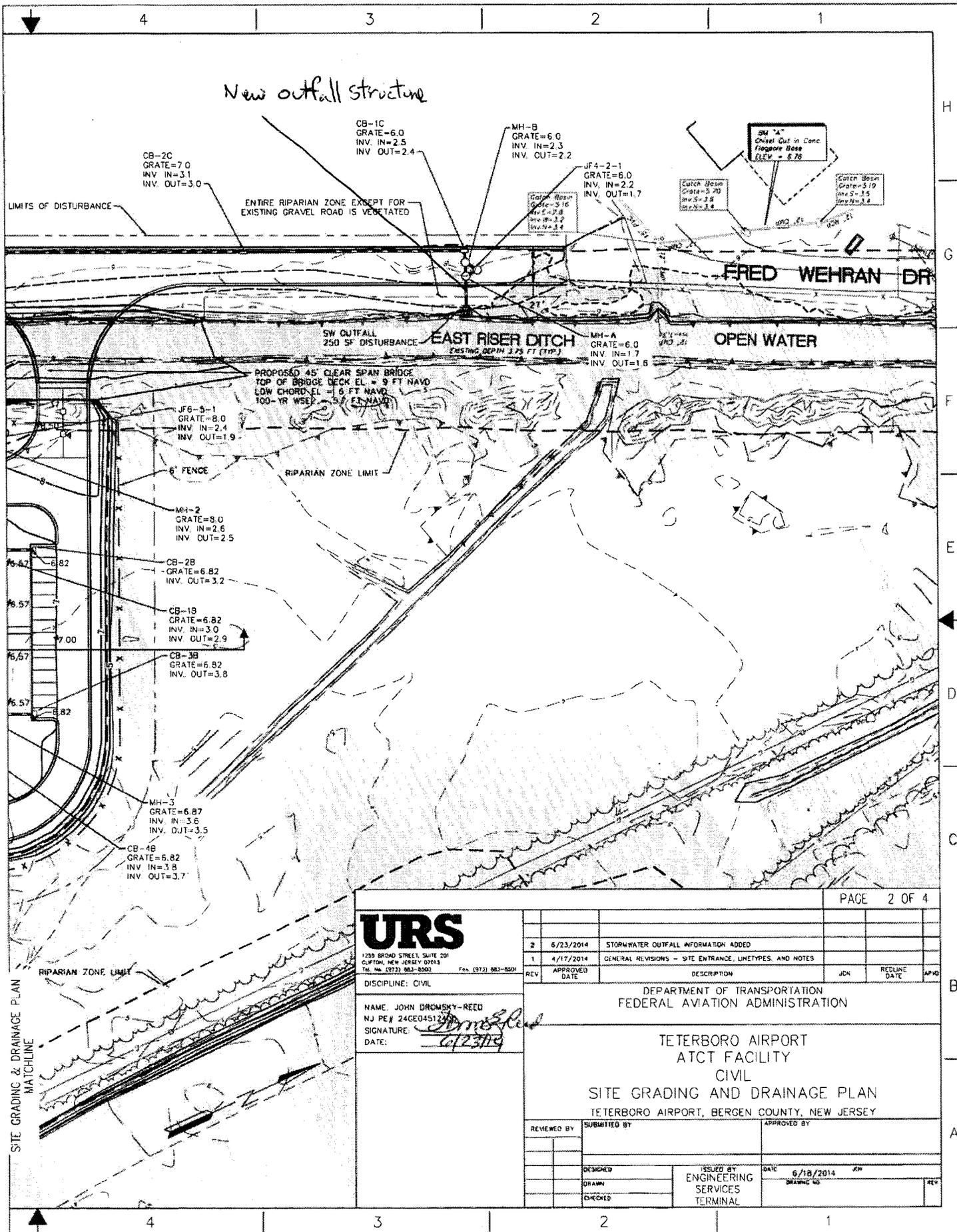
22. CONTOUR ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). TO CONVERT ELEVATIONS TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29), ADD 1.0 FOOT.
23. CENTER OF TOWER MAY NOT MOVE.
24. WETLANDS DELINEATED BY URS MARCH 2011.
25. EROSION AND SEDIMENT CONTROL MEASURES, AS PER NJ STANDARDS, WILL BE DEVELOPED IN THE FINAL DESIGN AND FOLLOWED DURING CONSTRUCTION TO MINIMIZE THE TRANSPORTATION OF SEDIMENT FROM ON-SITE DISTURBANCE ACTIVITIES.
26. AT THE PROPOSED SITE ENTRANCE DRIVE OVER EAST RISER DITCH, A CROSSING STRUCTURE WITH AN OPENING OF 327 SQUARE FEET BELOW ELEVATION 6.0 FT (NAVD) WILL BE CONSTRUCTED.



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7

6



New outfall structure

CB-2C  
GRATE=7.0  
INV. IN=3.1  
INV. OUT=3.0

CB-1C  
GRATE=6.0  
INV. IN=2.5  
INV. OUT=2.4

MH-B  
GRATE=6.0  
INV. IN=2.3  
INV. OUT=2.2

JF4-2-1  
GRATE=6.0  
INV. IN=2.2  
INV. OUT=1.7

SW 12"  
Chisel Cut in Conc  
Fireplug Base  
ELEV = 6.76

Catch Basin  
Grate=3.70  
Inv=3.18  
Inv=3.8

Catch Basin  
Grate=3.19  
Inv=3.15  
Inv=3.8

LIMITS OF DISTURBANCE

ENTIRE RIPARIAN ZONE EXCEPT FOR  
EXISTING GRAVEL ROAD IS VEGETATED

FRED WEHRAN DR

SW OUTFALL  
250 SF DISTURBANCE

EAST RISER DITCH  
EXISTING DEPTH 3.75 FT (TYP)

MH-A  
GRATE=6.0  
INV. IN=1.7  
INV. OUT=1.6

OPEN WATER

PROPOSED 45' CLEAR SPAN BRIDGE  
TOP OF BRIDGE DECK EL. = 9 FT NAVD  
LOW CHORD EL. = 6 FT NAVD  
100-YR WSEL = 5.7 FT NAVD

JF6-3-1  
GRATE=8.0  
INV. IN=2.4  
INV. OUT=1.9

6' FENCE

RIPARIAN ZONE LIMIT

MH-2  
GRATE=8.0  
INV. IN=2.6  
INV. OUT=2.5

CB-2B  
GRATE=6.82  
INV. OUT=3.2

CB-1B  
GRATE=6.82  
INV. IN=3.0  
INV. OUT=2.9

CB-3B  
GRATE=6.82  
INV. OUT=3.8

MH-3  
GRATE=6.87  
INV. IN=3.5  
INV. OUT=3.5

CB-4B  
GRATE=6.82  
INV. IN=3.8  
INV. OUT=3.7

PAGE 2 OF 4

**URS**

1255 BROAD STREET, SUITE 201  
CLIFTON, NEW JERSEY 07013  
Tel. No. (973) 983-3500 Fax. (973) 983-5500

DISCIPLINE: CIVIL

NAME: JOHN DROMSKY-REED  
NJ PE# 24CE045124  
SIGNATURE: *[Signature]*  
DATE: 6/23/14

REV	DATE	DESCRIPTION	JCN	REDLINE DATE	APPD
2	6/23/2014	STORMWATER OUTFALL INFORMATION ADDED			
1	4/17/2014	GENERAL REVISIONS - SITE ENTRANCE, LINETYPES, AND NOTES			

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

TETERBORO AIRPORT  
ATCT FACILITY  
CIVIL  
SITE GRADING AND DRAINAGE PLAN  
TETERBORO AIRPORT, BERGEN COUNTY, NEW JERSEY

REVIEWED BY	SUBMITTED BY	APPROVED BY
DESIGNED	ISSUED BY	DATE 6/18/2014 JRM
DRAWN	ENGINEERING SERVICES TERMINAL	DRAWING NO.
CHECKED		REV

Figure 6 of 21

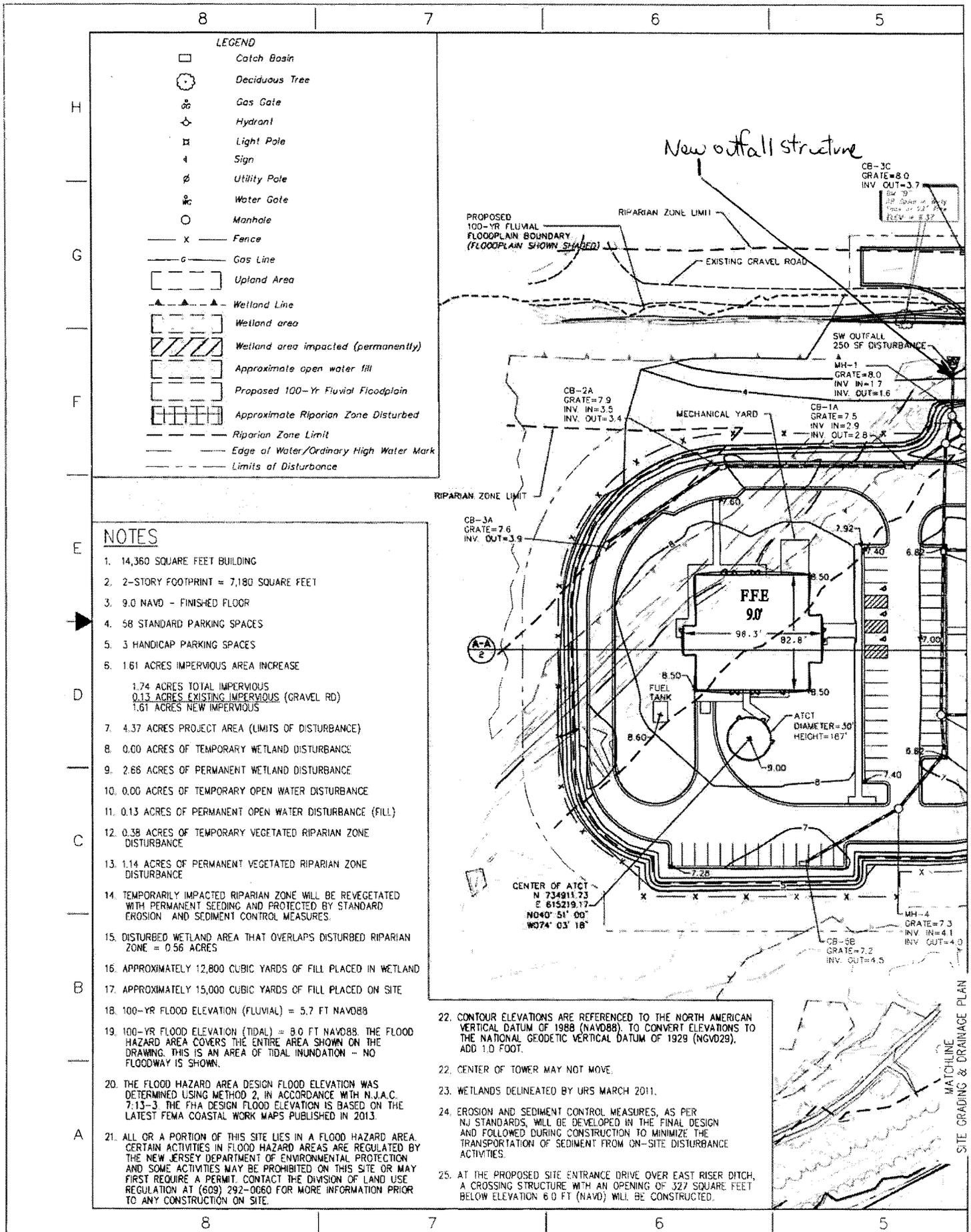
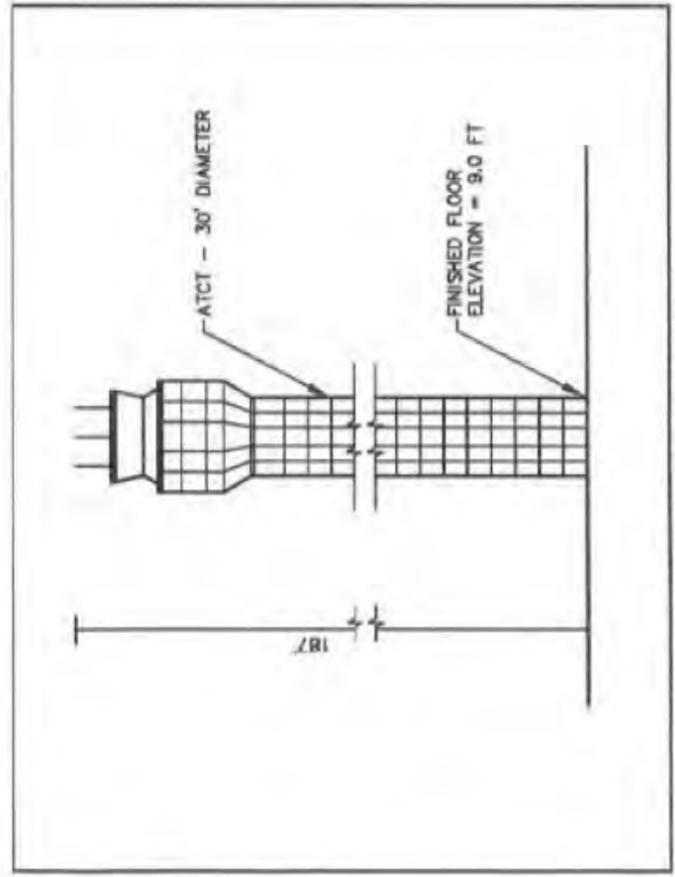
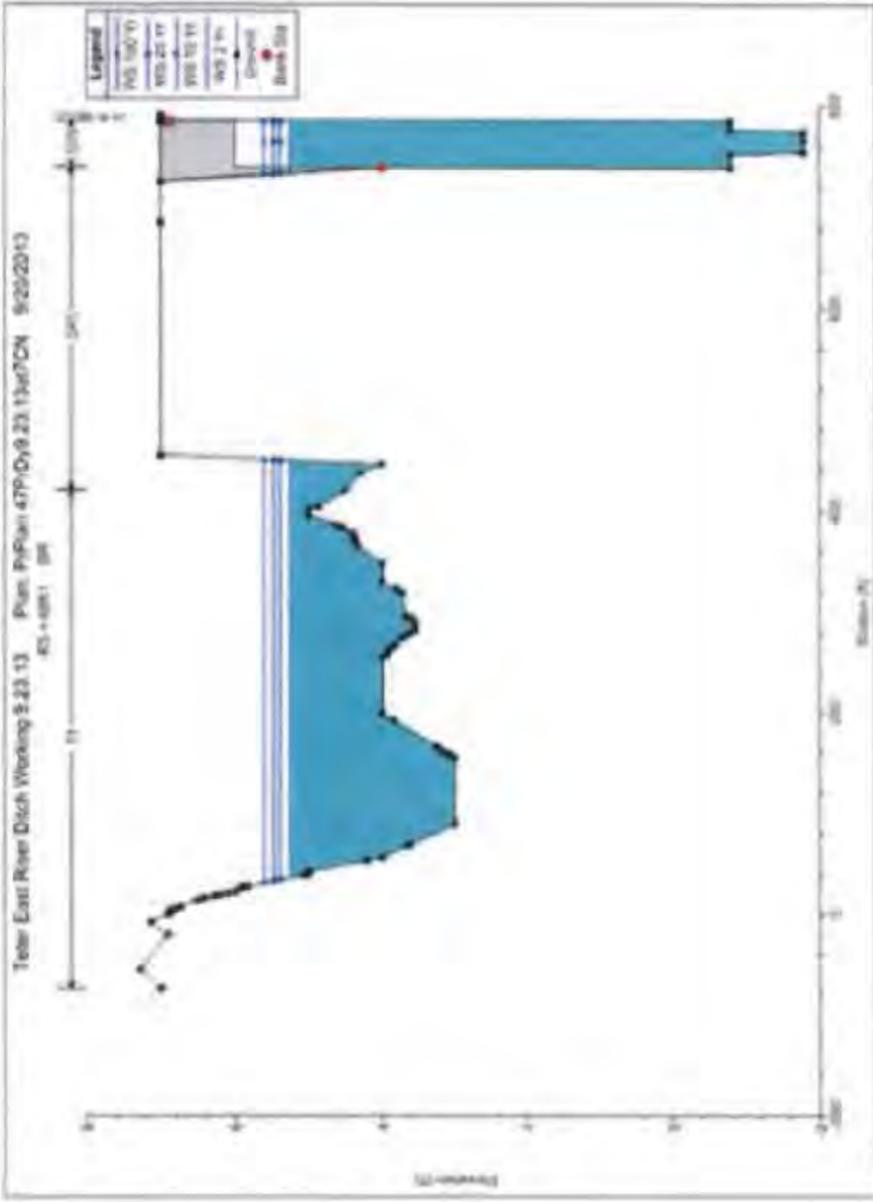
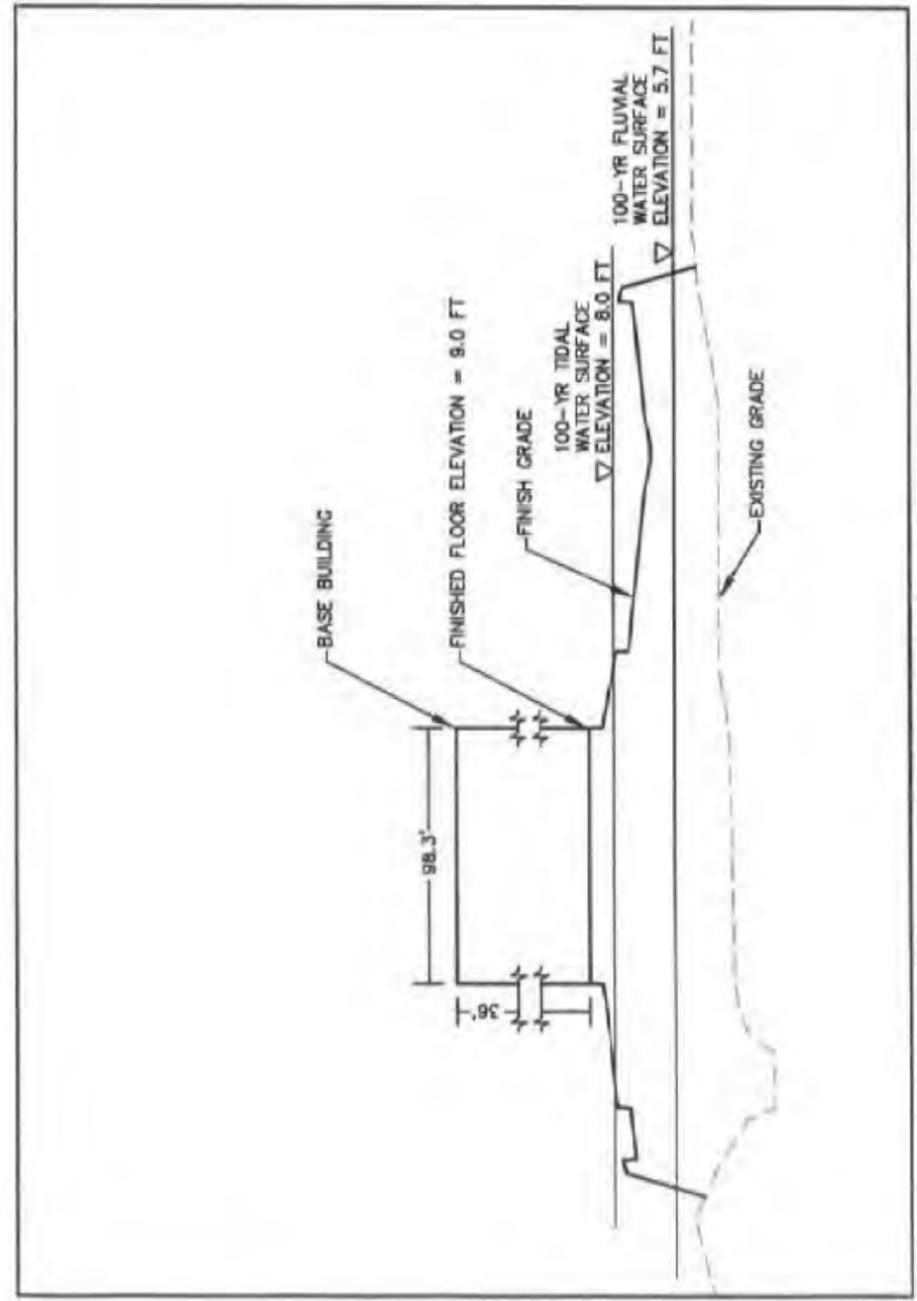


Figure 7 of 21



ATCT CROSS-SECTION

HYDRAULIC CROSS-SECTION  
EAST RISER DITCH CROSSING

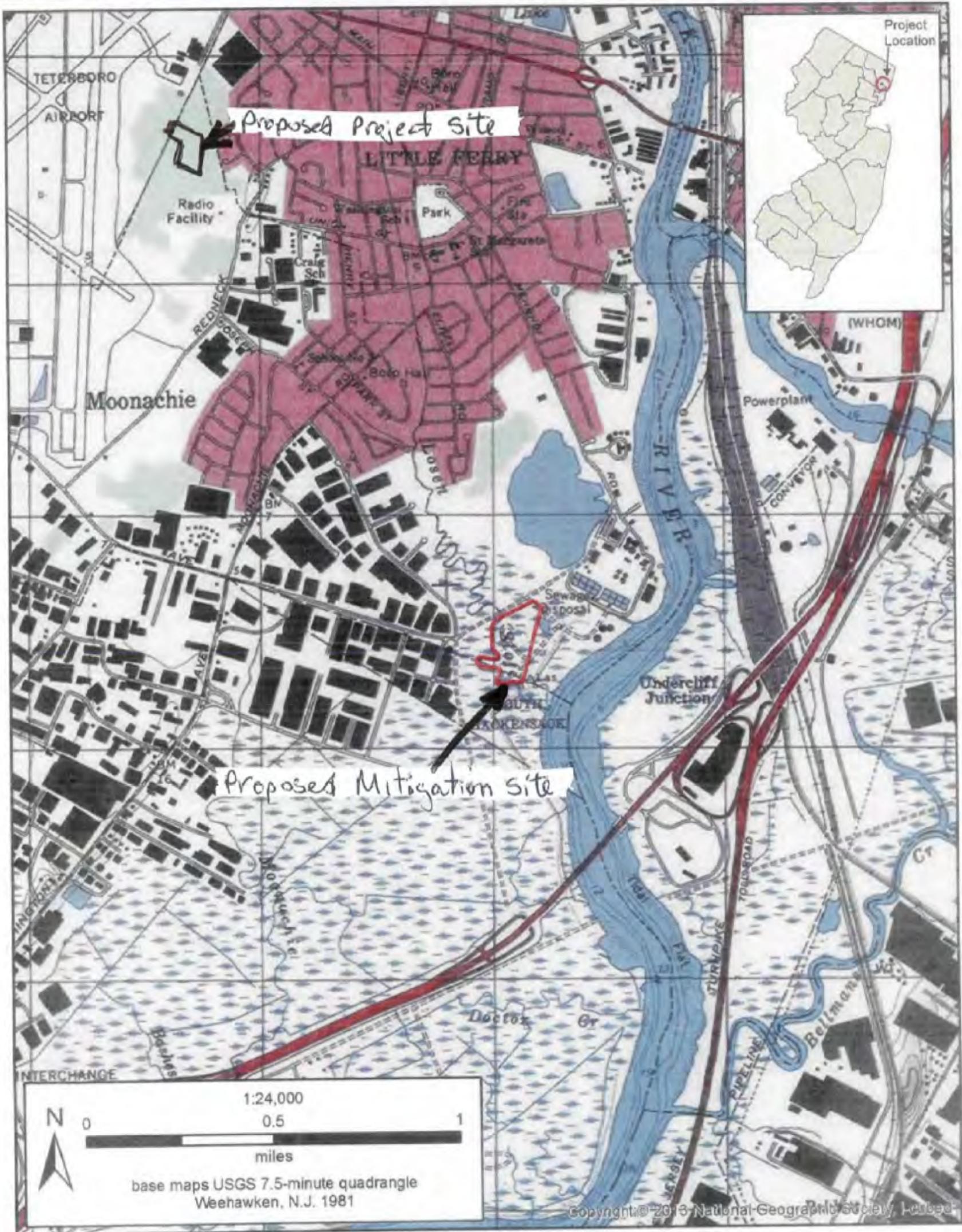


CROSS-SECTION A-A

Figure 8 of 21

	PROJECT NO. 479-09.23.13 SHEET NO. 8 DATE 9/25/2013	SECTION SHEET NO. 8 SHEET NO. 8 DATE 9/25/2013	PROJECT NO. 479-09.23.13 SHEET NO. 8 DATE 9/25/2013	PAGE 4 OF 4
	DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION  TETERBORO AIRPORT ATCT FACILITY CIVIL CROSS SECTIONS			
NAME: JOHN DRISCOLL-REED NJ PE# 2402483400 SIGNATURE: _____ DATE: _____		SUBMITTED BY: _____ APPROVED BY: _____ TETERBORO AIRPORT, BERGEN COUNTY, NEW JERSEY		
RECEIVED BY: _____ DATE: _____		RECEIVED BY: _____ DATE: _____ TETERBORO AIRPORT, BERGEN COUNTY, NEW JERSEY		

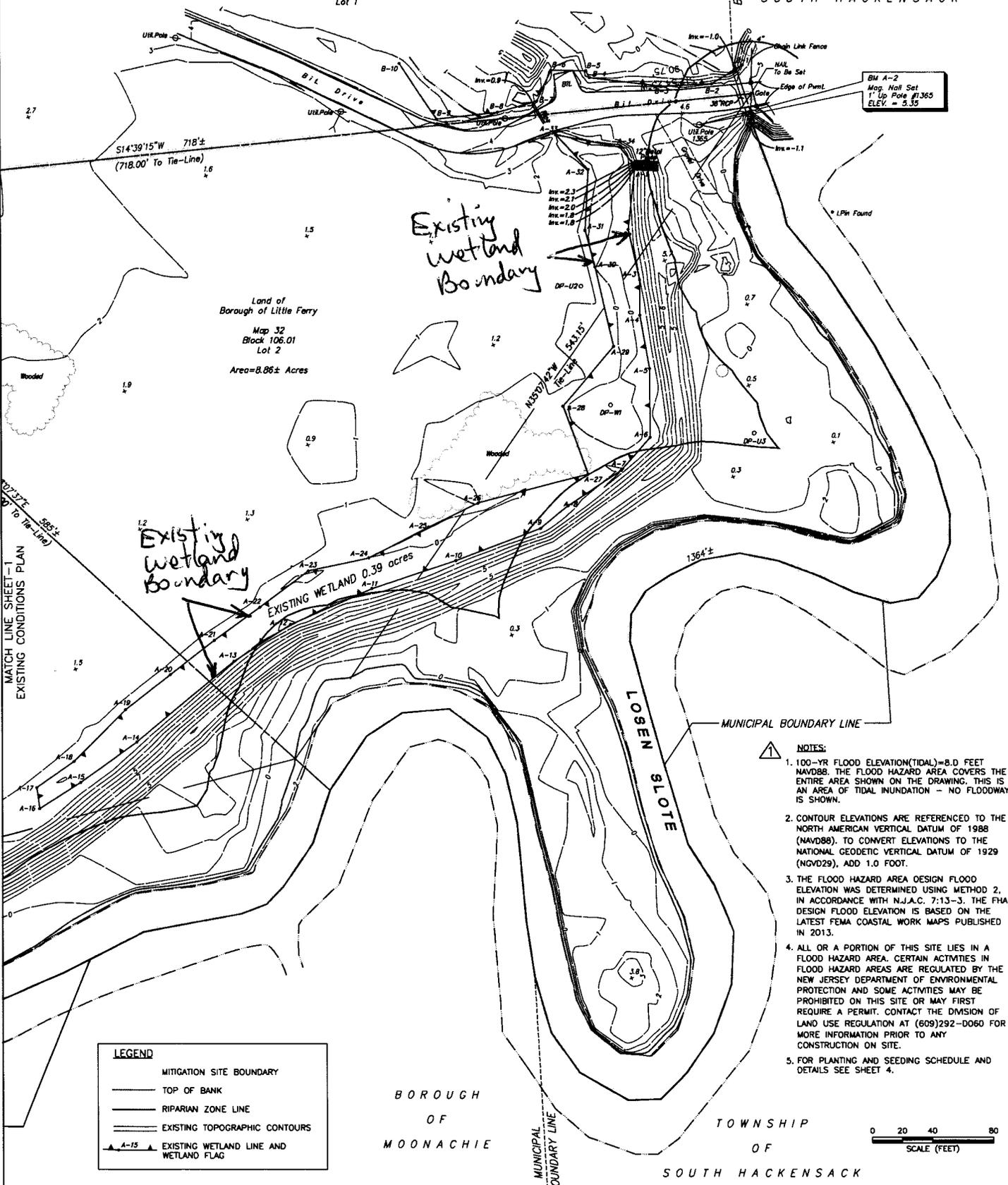
LOSEN SLOTE MITIGATION SITE  
TETERBORO AIRPORT TRAFFIC CONTROL TOWER



Project location on USGS 7.5-minute quadrangle, Weehawken, N.J.

Figure 9 of 21

N/F  
Bergen County Utilities Authority  
Map 33  
Block 106.01  
Lot 1



BM A-2  
Mn. Nail Set  
1" Up Pole #1365  
ELEV. = 5.35

Land of  
Borough of Little Ferry  
Map 32  
Block 106.01  
Lot 2  
Area = 8.86 ± Acres

EXISTING WETLAND 0.39 acres

- NOTES:**
1. 100-YR FLOOD ELEVATION (TIDAL) = 8.0 FEET NAVD88. THE FLOOD HAZARD AREA COVERS THE ENTIRE AREA SHOWN ON THE DRAWING. THIS IS AN AREA OF TIDAL INUNDATION - NO FLOODWAY IS SHOWN.
  2. CONTOUR ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). TO CONVERT ELEVATIONS TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29), ADD 1.0 FOOT.
  3. THE FLOOD HAZARD AREA DESIGN FLOOD ELEVATION WAS DETERMINED USING METHOD 2A, IN ACCORDANCE WITH N.J.A.C. 7:13-3. THE FHA DESIGN FLOOD ELEVATION IS BASED ON THE LATEST FEMA COASTAL WORK MAPS PUBLISHED IN 2013.
  4. ALL OR A PORTION OF THIS SITE LIES IN A FLOOD HAZARD AREA. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT THE DIVISION OF LAND USE REGULATION AT (609)292-0060 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ON SITE.
  5. FOR PLANTING AND SCHEDULING AND DETAILS SEE SHEET 4.

LEGEND	
	MITIGATION SITE BOUNDARY
	TOP OF BANK
	RIPARIAN ZONE LINE
	EXISTING TOPOGRAPHIC CONTOURS
	EXISTING WETLAND LINE AND WETLAND FLAG

BOROUGH OF MOONACHIE  
TOWNSHIP OF SOUTH HACKENSACK



EMBOSSSED SEAL  
JOHN DROMISKY-REED  
N.J. P.E. NO. 24624512400

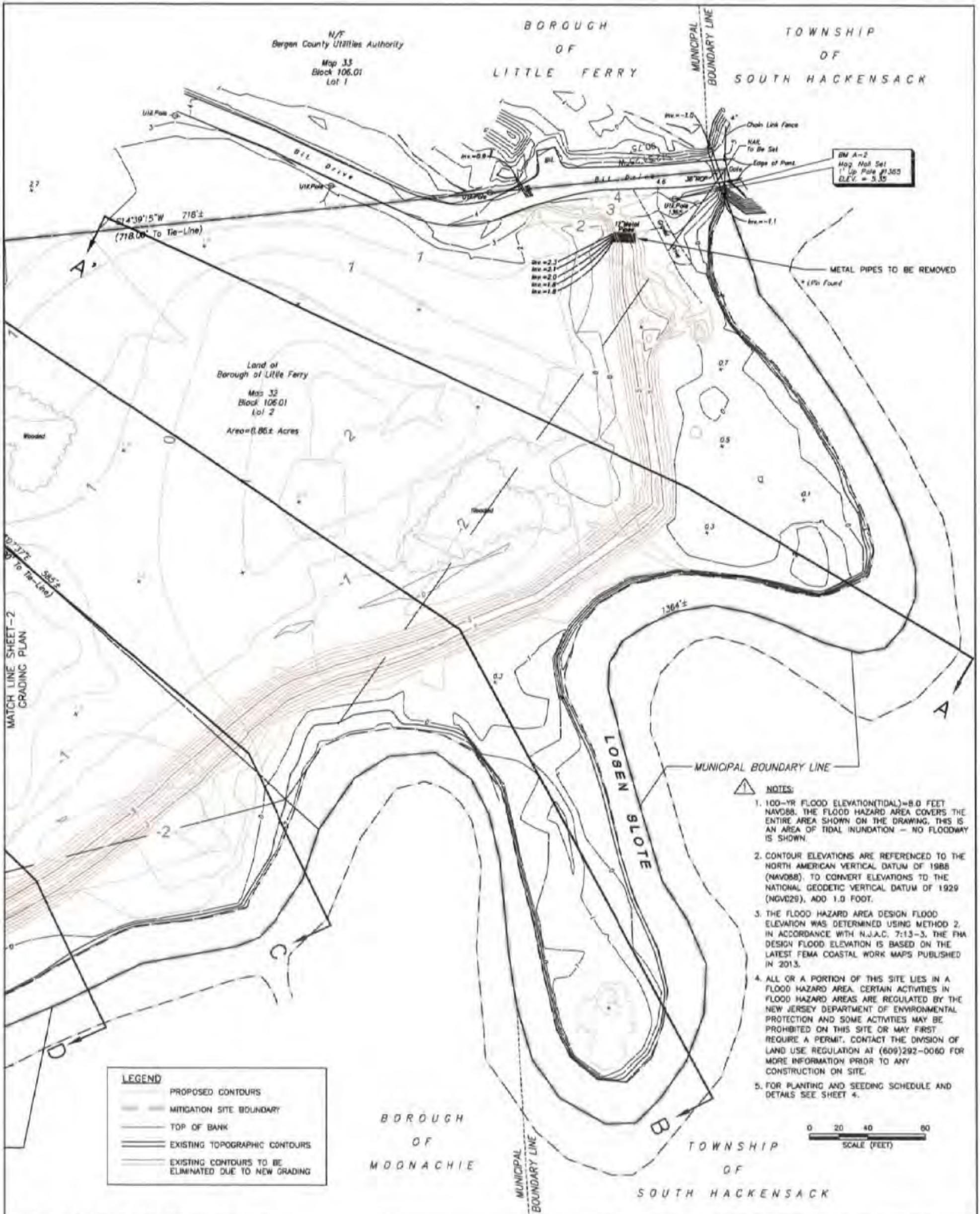
PLANS ISSUED BY:  
**URS**  
1255 BROAD STREET, SUITE 200  
CLIFTON, NJ 07013  
TEL: 973-863-8500  
FAX: 973-863-8501

EXISTING CONDITIONS PLAN  
LOZEN SOTE MITIGATION SITE - FOR TEB ATCT PROJECT  
BOROUGH OF LITTLE FERRY, BERGEN COUNTY, NEW JERSEY  
BLOCK 106.01 LOTS 2 AND 3

PROJECT #	15290060	SCALE	1" = 40'
DRAWN	CHECKED	DRAWING NO.	
E.T.	S.A.	01.SHEET.EXIST.PLAN	
DATE	JANUARY 2014	SHEET NO.	SHEET - 1 OF 5

Figure 10 of 21

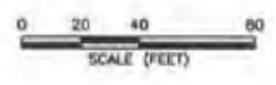




**LEGEND**

- PROPOSED CONTOURS
- MITIGATION SITE BOUNDARY
- TOP OF BANK
- EXISTING TOPOGRAPHIC CONTOURS
- EXISTING CONTOURS TO BE ELIMINATED DUE TO NEW GRADING

- NOTES:**
1. 100-YR FLOOD ELEVATION (TIDAL) = 8.0 FEET NAVD88. THE FLOOD HAZARD AREA COVERS THE ENTIRE AREA SHOWN ON THE DRAWING, THIS IS AN AREA OF TIDAL INUNDATION - NO FLOODWAY IS SHOWN.
  2. CONTOUR ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). TO CONVERT ELEVATIONS TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29), ADD 1.0 FOOT.
  3. THE FLOOD HAZARD AREA DESIGN FLOOD ELEVATION WAS DETERMINED USING METHOD 2, IN ACCORDANCE WITH N.J.A.C. 7:13-3. THE FM DESIGN FLOOD ELEVATION IS BASED ON THE LATEST FEMA COASTAL WORK MAPS PUBLISHED IN 2013.
  4. ALL OR A PORTION OF THIS SITE LIES IN A FLOOD HAZARD AREA. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT THE DIVISION OF LAND USE REGULATION AT (609)292-0060 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ON SITE.
  5. FOR PLANTING AND SEEDING SCHEDULE AND DETAILS SEE SHEET 4.



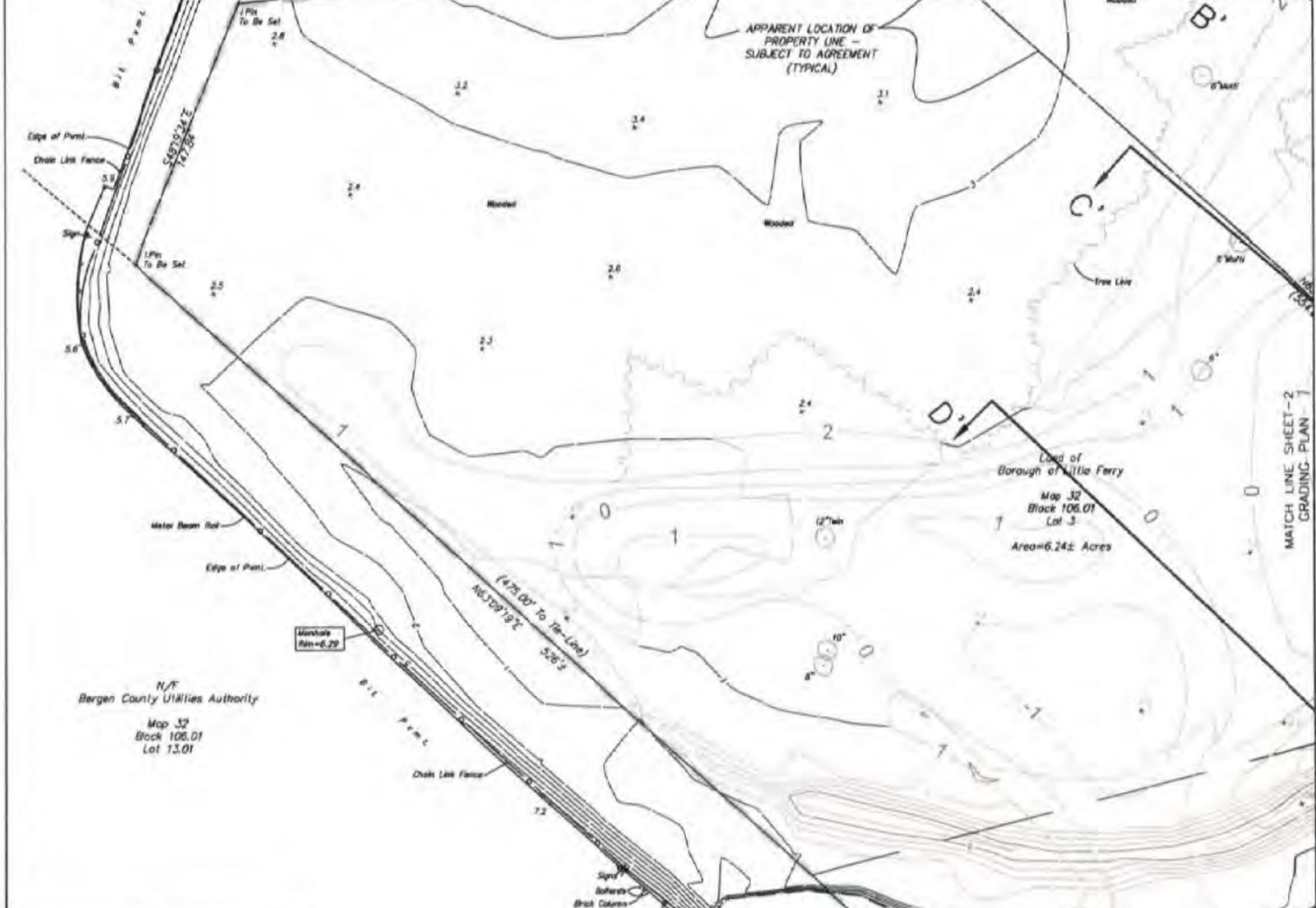
EMBOSSED SEAL	PLANS ISSUED BY:	<p>1255 BROAD STREET, SUITE 200 CLIFTON, NJ 07013 TEL: 973-883-8500 FAX: 973-883-8501</p>	<b>GRADING PLAN</b>		PROJECT #	SCALE
			<b>LOUSEN SLOTE MITIGATION SITE - FOR TEB ATCT PROJECT</b>		15290060	1" = 40'
BOROUGH OF LITTLE FERRY, BERGEN COUNTY, NEW JERSEY BLOCK 106.01 LOTS 2 AND 3			DATE	DATE	DATE	DATE
			JANUARY 2014			

Figure 12 of 21



N/F  
Bergen County Utilities Authority  
Map 33  
Block 106.01  
Lot 4

N/F  
Bergen County Utilities Authority  
Map 33  
Block 106.01  
Lot 7



MATCH LINE SHEET - 2  
GRADING PLAN - 1

**LEGEND**

	Bush		Mailbox
	Catch Basin		Manhole
	Coniferous Tree		Parking Meter
	Deciduous Tree		Sign
	Gas Gate		Utility Pole
	Hydrant		Water Gate
	Light Pole		

**REVISIONS**

NO.	BY	CHKD	DATE	DESCRIPTION
1	BT	JER	04-17-13	NOTES ADDED

**WARNINGS**

IF THE SEAL ON THIS PLAN IS NOT RED OR BROWN THEN THIS PLAN MAY HAVE BEEN ALTERED AND REPRODUCED. ORIGINAL SEALS ARE SUPPLIED IN RED INK OR CAPSULES WITH A GRAPHING SEAL.

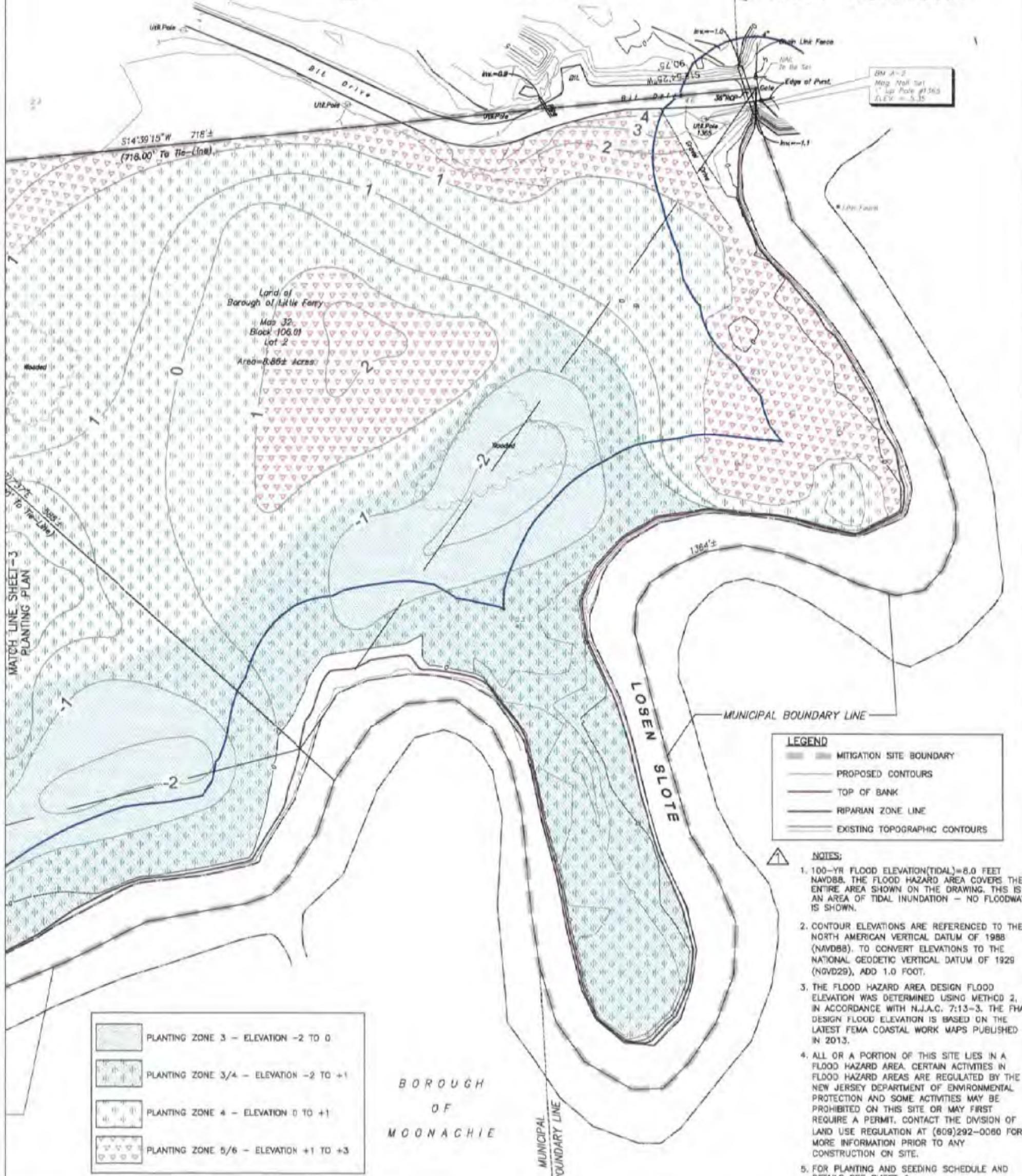
IF THIS SEAL DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

Figure 13 of 21

BOROUGH OF LITTLE FERRY  
TOWNSHIP OF SOUTH HACKENSACK

N/F  
Bergen County Utilities Authority

Map 33  
Block 106.01  
Lot 1



BM A-2  
Mag. Nail Set  
1" Lip Pole #1363  
ELEV. = 5.15

Land of  
Borough of Little Ferry  
Map 32  
Block 106.01  
Lot 2  
Area = 0.86± acres

LEGEND	
	MITIGATION SITE BOUNDARY
	PROPOSED CONTOURS
	TOP OF BANK
	RIPARIAN ZONE LINE
	EXISTING TOPOGRAPHIC CONTOURS

- NOTES:**
1. 100-YR FLOOD ELEVATION (TIDAL) = 8.0 FEET NAVD88. THE FLOOD HAZARD AREA COVERS THE ENTIRE AREA SHOWN ON THE DRAWING. THIS IS AN AREA OF TIDAL INUNDATION - NO FLOODWAY IS SHOWN.
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  5. FOR PLANTING AND SEEDING SCHEDULE AND DETAILS SEE SHEET 4.

	PLANTING ZONE 3 - ELEVATION -2 TO 0
	PLANTING ZONE 3/4 - ELEVATION -2 TO +1
	PLANTING ZONE 4 - ELEVATION 0 TO +1
	PLANTING ZONE 5/6 - ELEVATION +1 TO +3

EMBOSSSED SEAL  
JOHN DROMSKY-REED  
N.J. P.E. NO. 24624512400

PLANS ISSUED BY:  
**URS**  
1255 BROAD STREET, SUITE 200  
CLIFTON, NJ 07011  
TEL: 973-883-8500  
FAX: 973-883-8501

PLANTING PLAN  
LOSEN SLOTE MITIGATION SITE - FOR TEB ATCT PROJECT  
BOROUGH OF LITTLE FERRY, BERGEN COUNTY, NEW JERSEY  
BLOCK 106.01 LOTS 2 AND 3

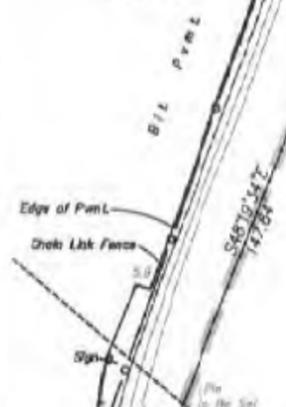
PROJECT #	SCALE
15290060	1" = 40'
DATE:	DRAWING NO.:
E.T.:	S.A.:
DATE:	SHEET NO.:

Figure 14 of 21



N/F  
Bergen County Utilities Authority  
Map 33  
Block 106.01  
Lot 4

N/F  
Bergen County Utilities Authority  
Map 33  
Block 106.01  
Lot 7



N/F  
Bergen County Utilities Authority  
Map 32  
Block 106.01  
Lot 13.01

APPARENT LOCATION OF  
PROPERTY LINE -  
SUBJECT TO AGREEMENT  
(TYPICAL)

**LEGEND**

	Bush		Mailbox
	Catch Basin		Manhole
	Coniferous Tree		Parking Meter
	Deciduous Tree		Sign
	Gas Gate		Utility Pole
	Hydrant		Water Gate
	Light Pole		

BOROUGH  
OF  
LITTLE FERRY

BOROUGH  
OF  
MOONACHIE

LOSEN SLOTE

Property Line is Center Line  
of the Losen Srote

MUNICIPAL BOUNDARY LINE



**REVISIONS**

NO.	BY	CHKD.	DATE	DESCRIPTION
1	ET	JER	04-17-14	NOTES ADDED

**WARNINGS**



IF THE SEAL ON THIS PLAN IS  
NOT RED OR FADING THEN THIS  
PLAN MAY HAVE BEEN ALTERED  
AND REPRODUCED. ORIGINAL SEALS  
ARE SHIPPED IN RED 94 OR  
EMBEDDED WITH A TRAFFIC SEAL.

IF THE SEAL ON THIS PLAN IS  
NOT RED OR FADING THEN THIS  
PLAN MAY HAVE BEEN ALTERED  
AND REPRODUCED. ORIGINAL SEALS  
ARE SHIPPED IN RED 94 OR  
EMBEDDED WITH A TRAFFIC SEAL.

Figure 15 of 21

Planting Zone / Area	Species	Quantity	Size	
<b>Zone 3 -- 0.9 Acres</b>				
Trees:	Silver Maple ( <i>Acer saccharinum</i> )		4-6 ft #3 container	
	River Birch ( <i>Betula nigra</i> )		4-6 ft #3 container	
	Swamp White Oak ( <i>Quercus bicolor</i> )		3-4 ft #3 container	
	Black Gum ( <i>Nyssa sylvatica</i> )		3-4 ft #3 container	
Shrubs:	Silky Dogwood ( <i>Cornus amomum</i> )		2-3 ft #2 container	
	Pussy Willow ( <i>Salix discolor</i> )		2-3 ft #2 container	
	Highbush Blueberry ( <i>Vaccinium corymbosum</i> )		Transplant from Impact Site	
Herbs:	Cinnamon Fern ( <i>Osmunda cinnamomea</i> )		Transplant from Impact Site	
	River Bulrush ( <i>Scirpus fluitans</i> )		Transplant	
<b>Zone 3/4 -- 2.3 Acres</b>				
Trees:	River Birch ( <i>Betula nigra</i> )		4-6 ft #3 container	
	Swamp White Oak ( <i>Quercus bicolor</i> )		3-4 ft #3 container	
	Black Gum ( <i>Nyssa sylvatica</i> )		3-4 ft #3 container	
	Red Maple ( <i>Acer rubrum</i> )		4-6 ft #3 container	
	Silver Maple ( <i>Acer saccharinum</i> )		4-6 ft #3 container	
Shrubs:	Slippery Elm ( <i>Ulmus rubra</i> )		3-4 ft #3 container	
	Pin oak ( <i>Quercus palustris</i> )		3-4 ft #3 container	
	Sweetgum ( <i>Liquidambar styraciflua</i> )		3-4 ft #3 container	
Herbs:	Silky Dogwood ( <i>Cornus amomum</i> )		2-3 ft #2 container	
	Pussy Willow ( <i>Salix discolor</i> )		2-3 ft #2 container	
	Elderberry ( <i>Sambucus canadensis</i> )		2-3 ft #2 container	
	Highbush Blueberry ( <i>Vaccinium corymbosum</i> )		Transplant from Impact Site	
	Stoeplebush ( <i>Spiraea tomentosa</i> )		2-3 ft #2 container	
Sweet Pepperbush ( <i>Clethra alnifolia</i> )		2-3 ft #2 container		
<b>Zone 4 -- 3.3 Acres</b>				
Trees:	Red Maple ( <i>Acer rubrum</i> )		4-6 ft #3 container	
	Silver Maple ( <i>Acer saccharinum</i> )		4-6 ft #3 container	
	Slippery Elm ( <i>Ulmus rubra</i> )		3-4 ft #3 container	
	Pin oak ( <i>Quercus palustris</i> )		3-4 ft #3 container	
	Sweetgum ( <i>Liquidambar styraciflua</i> )		3-4 ft #3 container	
Shrubs:	Elderberry ( <i>Sambucus canadensis</i> )		2-3 ft #2 container	
	Highbush Blueberry ( <i>Vaccinium corymbosum</i> )		Transplant from Impact Site	
	Stoeplebush ( <i>Spiraea tomentosa</i> )		2-3 ft #2 container	
Sweet Pepperbush ( <i>Clethra alnifolia</i> )		2-3 ft #2 container		
<b>Zone 5/6 -- 1.7 Acres</b>				
Trees:	Ironwood ( <i>Carpinus caroliniana</i> )		3-4 ft #3 container	
	Gray Birch ( <i>Betula populifolia</i> )		4-6 ft #3 container	
	Persimmon ( <i>Diospyros virginiana</i> )		4-6 ft #3 container	
	Pignut Hickory ( <i>Carya glabra</i> )		4-6 ft #3 container	
	White Oak ( <i>Quercus alba</i> )		3-4 ft #3 container	
	Sassafras ( <i>Sassafras albidum</i> )		4-6 ft #3 container	
	Choke Cherry ( <i>Prunus virginiana</i> )		4-6 ft #3 container	
	Shrubs:	Shadbush ( <i>Amelanchier canadensis</i> )		2-3 ft #2 container
		Beach Plum ( <i>Prunus maritima</i> )		2-3 ft #2 container
		Red-twig Dogwood ( <i>Cornus sericea</i> )		2-3 ft #2 container
Black-haw ( <i>Viburnum prunifolium</i> )			2-3 ft #2 container	
Poasanth ( <i>Viburnum nudum</i> )		2-3 ft #2 container		
Fragrant Sumac ( <i>Rhus aromatica</i> )		2-3 ft #2 container		

MATCH LINE SHEET-4  
PLANTING DETAILS

Zone 5/6 Seed Mix	Zone 3 and Zone 3/4 Seed Mix
15% Little Bluestem ( <i>Schizachyrium scoparium</i> ) 15% Autumn Bentgrass ( <i>Agrostis perennans</i> ) 15% Shelter Switch Grass ( <i>Panicum virgatum</i> ) 10% Virginia Wild Rye ( <i>Elymus virginicus</i> ) 10% Deer Tongue, Tioga ( <i>Panicum clandestinum</i> ) 10% Partridge Pea ( <i>Chamaecrista fasciculata</i> ) 5% Purple Top ( <i>Tridens flavus</i> ) 5% Indian Grass ( <i>Sorghastrum nutans</i> ) 8% Black Eyed Susan ( <i>Rudbeckia hirta</i> ) 4% Butterfly Milkweed ( <i>Asclepias tuberosa</i> ) 2% Spotted Beebalm ( <i>Monarda punctata</i> ) 1% Purple Node Joe-Pye Weed ( <i>Eupatorium purpureum</i> )	25% Fox Sedge ( <i>Carex vulpinoidea</i> ) 20% Virginia Wild Rye ( <i>Elymus virginicus</i> ) 10% Lurid (shallow) Sedge ( <i>Carex lurida</i> ) 10% SoftRush ( <i>Juncus effusus</i> ) 7% Green Bulrush ( <i>Scirpus atrovirens</i> ) 7% Wood Grass ( <i>Scirpus cyperinus</i> ) 5% Fowl Mannagrass ( <i>Glyceria striata</i> ) 5% Blue Vervain ( <i>Verbena hastata</i> ) 5% Blue Flag ( <i>Iris versicolor</i> ) 2% NY Ironweed ( <i>Vernonia noveboracensis</i> ) 2% Swamp Milkweed ( <i>Asclepias incarnata</i> ) 2% Grass Leaved Goldenrod ( <i>Euthamia graminifolia</i> )
Seed Mix = Pinelands Nursery Regional Stormwater Management Basin Slope (Upland) Mix or equivalent Seeding Rate: 15 lbs/acre	Seed Mix = Pinelands Nursery Regional Stormwater Management Basin Bottom (Wetland) Mix or equivalent Seeding Rate: 15 lbs/acre
<b>Zone 4 Seed Mix = 50% Zone 5/6 Seed Mix and 50% Zone 3 Seed Mix</b>	

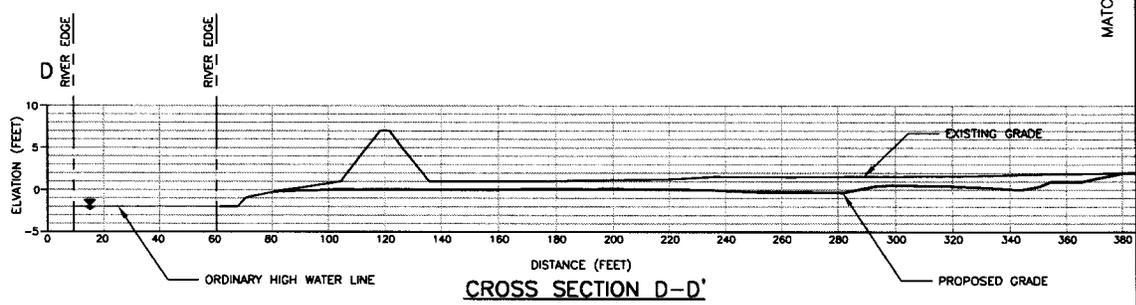
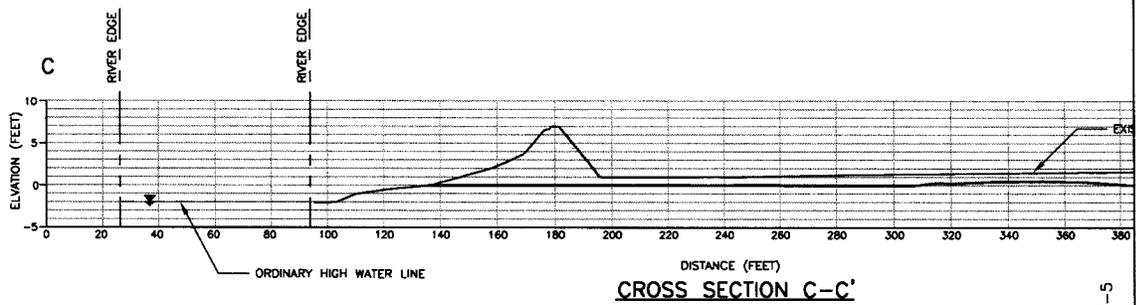
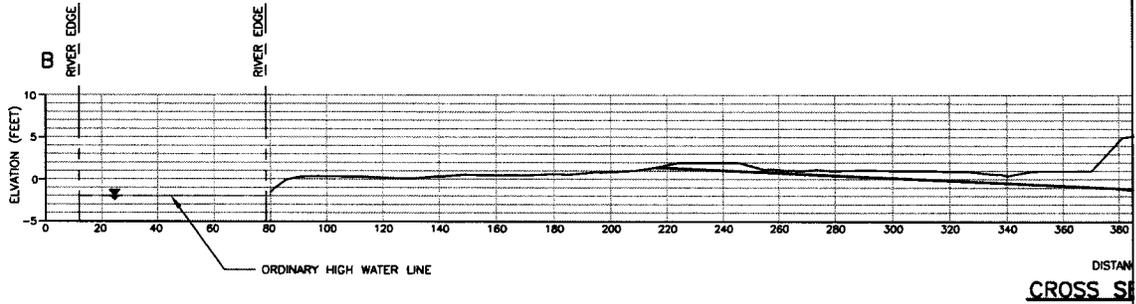
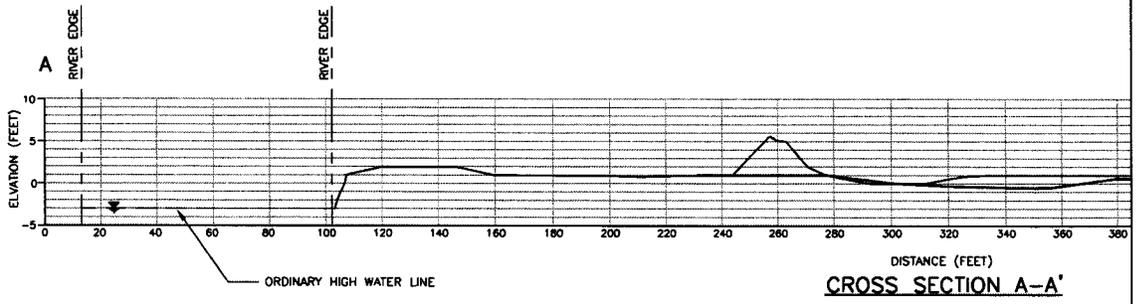
REVISIONS			
NO.	BY	DATE	DESCRIPTION

WARNINGS

IF THIS SEAL OR THIS PLAN IS  
NOT USED OR DAMAGED THIS  
PLAN MAY HAVE BEEN ALTERED  
AND REPRODUCED. ORIGINAL COPIES  
ARE STAMPED IN RED INK OR  
IMPRINTED WITH A GUMMED SEAL.

IF THIS SEAL OR THIS PLAN IS  
NOT USED OR DAMAGED THIS  
PLAN MAY HAVE BEEN ALTERED  
AND REPRODUCED. ORIGINAL COPIES  
ARE STAMPED IN RED INK OR  
IMPRINTED WITH A GUMMED SEAL.

Figure 16 of 21



MATCH LINE SHEET-5 SECTIONS

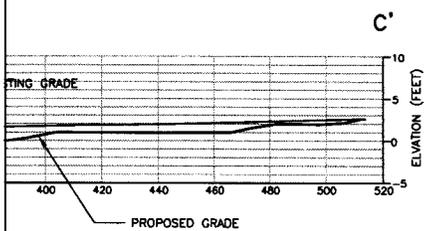
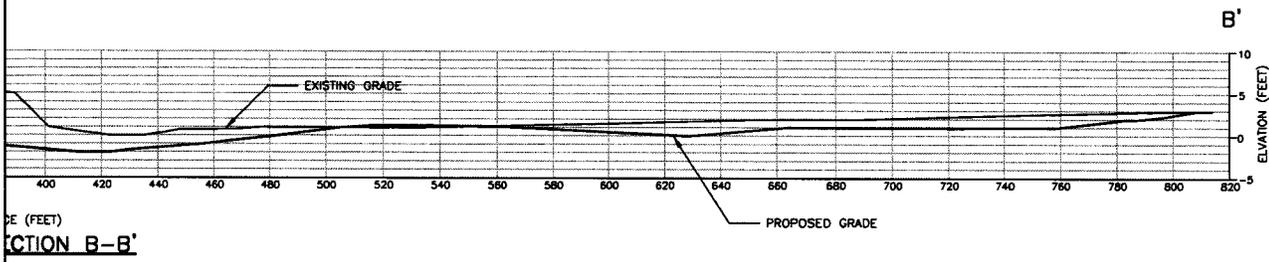
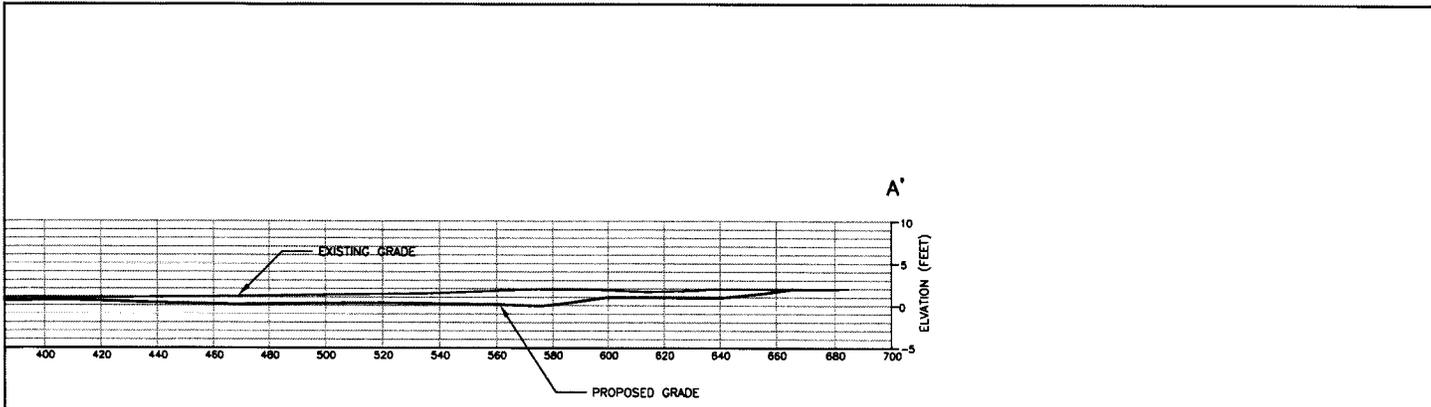
REVISIONS			
NO.	BY	CHKD	DATE

DESCRIPTION

**WARNINGS**

IF THE SEAL ON THIS PLAN IS NOT RED OR BROWN AND THE PLAN HAS NOT BEEN ALIGNED AND RECORDED IN THE FIELD, SEALS ARE MISSING IN FIELD AND THE PLAN IS NOT TO BE USED UNLESS ENCLOSED WITH A GRAPHIC SCALE.

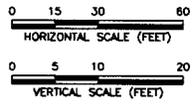
Figure 17 of 21



MATCH LINE SHEET-5 SECTIONS

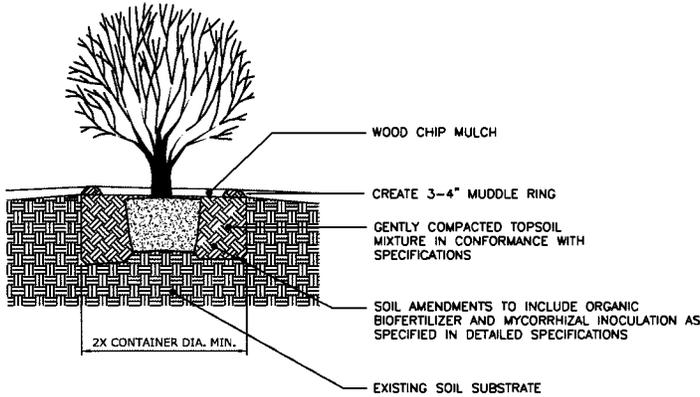


- NOTE:**
1. GROUND WATER ELEVATION IN THE RANGE OF 0.0 TO -2.0 FT NAVD88 IS EXPECTED, WITH PERIODIC SURFACE INUNDATION DUE TO WATER LEVEL FLUCTUATION IN THE LOSEN SLOTE.
  2. FDR LOCATIONS OF CROSS SECTIONS SEE SHEET 2.



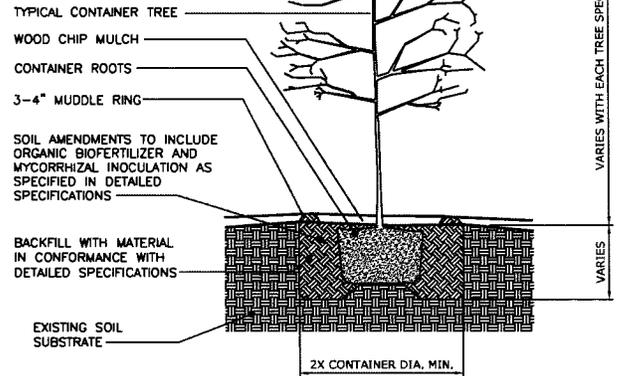
EMBOSSSED SEAL  JOHN DROWNSKY-REED N.J. P.E. NO. 24604512400	PLANS ISSUED BY:  <b>URS</b> 1255 BROAD STREET, SUITE 200 CLIFTON, NJ 07013 TEL: 973-883-8500 FAX: 973-883-8501	<b>CROSS SECTIONS</b> <b>LOSEN SLOTE MITIGATION SITE - FOR TEB ATCT PROJECT</b>		PROJECT # 15290060	SCALE AS NOTED
		BOROUGH OF LITTLE FERRY, BERGEN COUNTY, NEW JERSEY BLOCK 106.01 LOTS 2 AND 3		DRAWN BY E.T.	CHECKED BY S.A.
				DATE JANUARY 2014	SHEET NO. SHEET - 5 OF 5

Figure 18 of 21



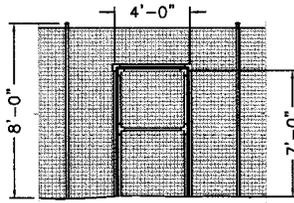
**SHRUB PLANTING - CONTAINER**

NOTE: CONTAINER TREES ARE NOT TO BE STAKED UNLESS DIRECTED BY ENGINEER

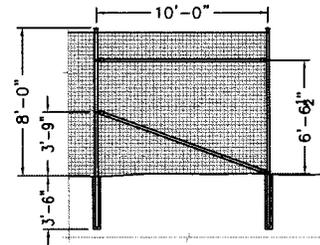


**CONTAINER/POTTED TREE DETAIL**

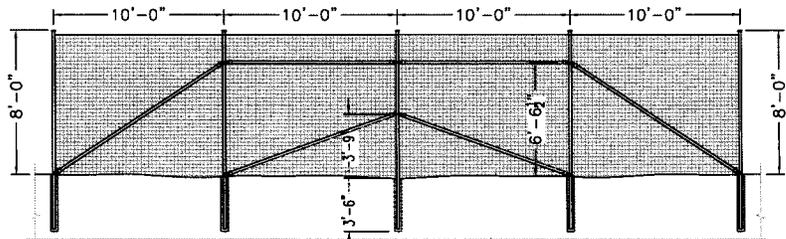
MATCH LINE SHEET-4  
PLANTING DETAILS



DETAIL OF 7'-0" HIGH x 4'-0" WIDE GATE  
N.T.S.



END SYSTEM FOR FIXED KNOT 8'-0" HIGH FENCE  
N.T.S.



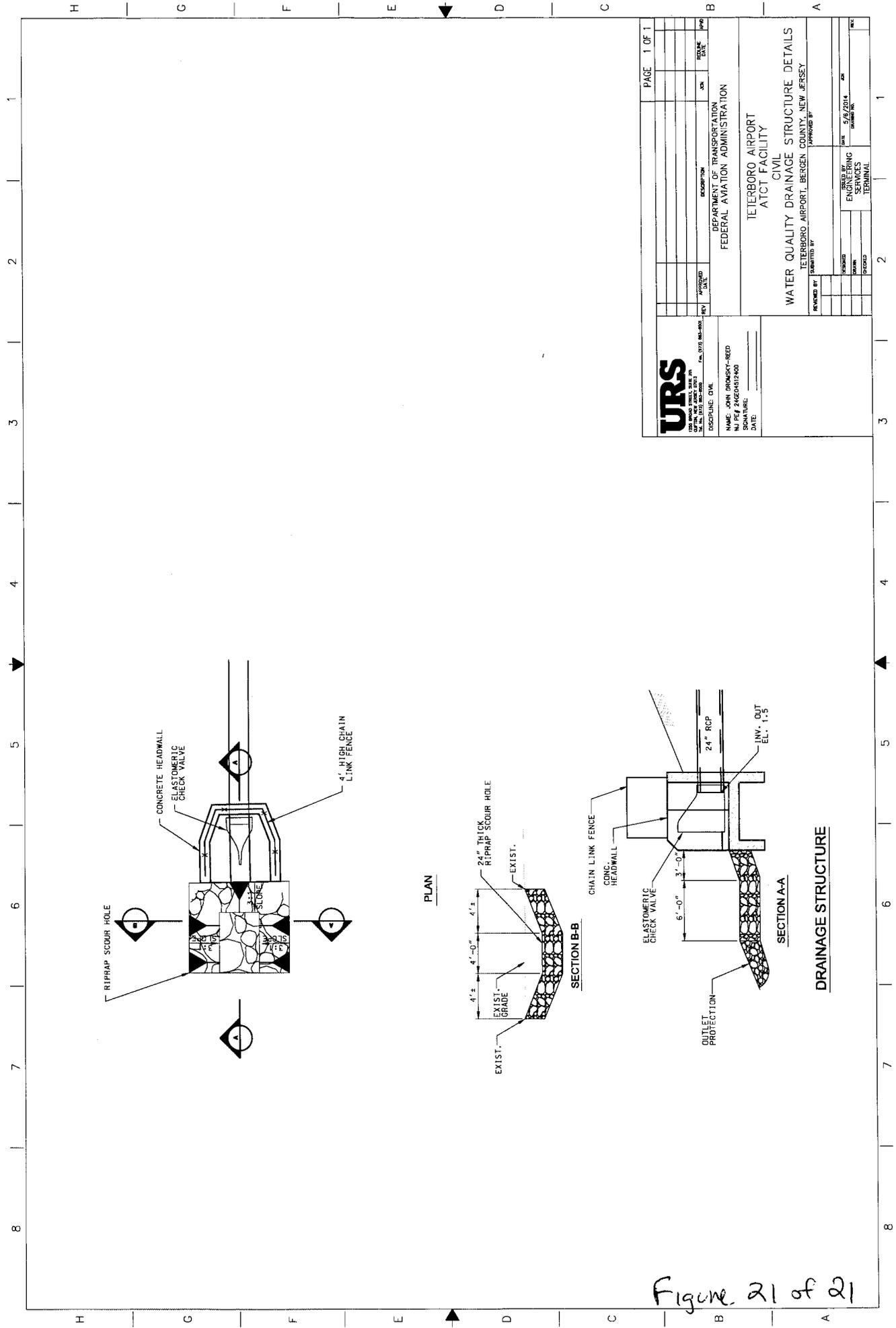
CORNER SYSTEM FOR FIXED KNOT 8'-0" HIGH FENCE  
N.T.S.

**DEER FENCE LAYOUT AND DETAILS**

EMBOSSED SEAL	PLANS ISSUED BY:	 1255 BROAD STREET, SUITE 200 CLIFTON, NJ 07013 TEL: 973-883-8500 FAX: 973-883-8501	PROJECT #		SCALE:
			15290060		AS NOTED
JOHN DROMOSKI-REED N.J. P.E. NO. 24GED4312400			DRAWN:	CHECKED:	DRAWING NO.:
			E.T.	S.A.	04 SHEET, PLANT, DET.
			DATE:	SHEET NO.:	
			JANUARY 2014	SHEET - 4 OF 5	

Figure 19 of 21





		DISCIPLINE: CIVIL NAME: JOHN HANCOCK-REED PROJECT: TETERBORO AIRPORT SIGNATURE: _____ DATE: _____	
APPROVED BY: _____ DATE: _____	DESCRIPTION: WATER QUALITY DRAINAGE STRUCTURE DETAILS	SCALE: _____ SHEET NO.: _____	PAGE: 1 OF 1
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		TETERBORO AIRPORT ATCT FACILITY CIVIL	
WATER QUALITY DRAINAGE STRUCTURE DETAILS TETERBORO AIRPORT, BERGEN COUNTY, NEW JERSEY		REVIEWED BY: _____ DATE: _____	
CHECKED BY: _____ DATE: _____	DESIGNED BY: _____ DATE: _____	DRAWN BY: _____ DATE: _____	PROJECT NO.: _____

Figure 21 of 21