



# 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 reply refer to:**  
Public Notice Number: NAN-2015-01277-ESW  
Issue Date: July 24, 2017  
Expiration Date: August 24, 2017

To Whom It May Concern:

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

**APPLICANT:** Borough of Sayreville  
Attn: David J. Samuel  
167 Main Street  
Sayreville, NJ 08871

**ACTIVITY:** Discharge fill in wetlands associated with the construction of a bypass road

**WATERWAY:** Raritan River

**LOCATION:** Borough of Sayreville, Middlesex 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.

**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.

**CENAN-OP-RE**  
**PUBLIC NOTICE NO. NAN-2015-01277-ESW**

Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. Comments provided will become part of the public record for this permit application. All written comments, including contact information, will be made a part of the administrative record, available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

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

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

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

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the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained the following governmental authorization for the activity under consideration:

- New Jersey Department of Environmental Protection

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) 790-8618 and ask for Amanda Regan.

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>.



**For and In behalf of**

Stephan A. Ryba  
Chief, Regulatory Branch

Enclosures

**CENAN-OP-RE**  
**PUBLIC NOTICE NO. NAN-2015-01277-ESW**

**WORK DESCRIPTION**

The applicant, the Borough of Sayreville, has requested Department of the Army authorization for the discharge of approximately 3.29 acres of fill in wetlands adjacent to the Raritan River to construct a bypass road in the Borough of Sayreville, Middlesex County, New Jersey.

The regulated work would consist of the construction of a 36-foot-wide by one-mile-long road in wetlands and upland areas. Associated work with constructing the road would consist of the 35-foot-wide by 70-foot-long precast concrete bridge. The work would involve both temporary and permanent wetland impacts associated with the road construction and storm water drainage improvements. The attached table details the temporary and permanent impacts proposed for construction of the Main Street bypass road.

The applicant has avoided, minimized and mitigated for impacts to the maximum extent possible through the use of best management practices such as turbidity control features and through the proposal of on-site mitigation.

The applicant proposes to restore and enhance approximately 14.7 acres of wetlands (emergent wetlands and both high and low marsh) to mitigate for unavoidable impacts associated with the construction of the road adjacent to the proposed project site and Pine Creek, tributary to the Raritan River. The applicant would restore wetlands at the mitigation site through the grading of the upland areas, clear-cutting and excavation of invasive species, planting of native seed mixtures, herbaceous plugs and native canopy trees, installation of avian herbivory and terrestrial fencing, and through the implementation of other site-specific controls to ensure the success of the restored areas. The applicant proposes to:

- Preserve open water, mud flat and tidal channels ( $\pm 147,000$  SF / 3.36 Acres)
- Preserve salt pannes ( $\pm 4,700$  SF / 0.11 Acres)
- Create Low Marsh ( $\pm 228,000$  SF / 5.23 Acres)
- Create High Marsh & Scrub Shrub ( $\pm 77,800$  SF / 1.78 Acres)
- Create Canopy/ Understory ( $\pm 184,000$  SF / 4.22 Acres)

Total preservation= 3.47 Acres

Total restoration= 11.23 Acres

The purpose of this project is to reduce excessive traffic on Main Street through the construction of a bypass road that will provide an alternate route and alleviate congestion.

Enclosures:

1. Impacts table
2. Proposed project plans
3. Proposed mitigation plans

**Borough of Sayreville**  
**Improvements to Main Street By-Pass**

**TABLE OF TEMPORARY / PERMANENT FRESHWATER WETLANDS / OPEN WATERS IMPACTS****(Refer to USACOE Permit Plans)**

Location	Types of Impacts / Elements	Area of Impact S.F. (AC±)	Our File No.: PSA00607.01 Volume of Impacts Fill / Cut (C.Y.±)
1	Freshwater Wetlands - Road Construction – pavement, curb, sidewalk, grading, fill, slopes, vegetation removal, 24"x38" culvert, water main	10,770 S.F. (0.25 AC±)	Fill Material – 902 C.Y.±
A	Freshwater Wetlands - Stormwater Outfall – headwall, gabion reno mattress, vegetation removal	672 S.F. (0.015 AC±)	Fill Material – 25 C.Y.±
B	Freshwater Wetlands - Stormwater Intake – headwall, gabion reno mattress, vegetation removal	672 S.F. (0.015 AC±)	Fill Material – 25 C.Y.±
2	Freshwater Wetlands - Road Construction – pavement, curb, sidewalk, grading, fill, slopes, vegetation removal, storm sewer inlet / pipe reaches, water main	19,620 S.F. (0.45 AC±)	Fill Material – 2,689 C.Y.±
AA	Open Waters - Stormwater Outfall – outlet control structure, 24"x38" pipe reach	74 S.F. (0.002 AC±)	Cut Material – 13 C.Y.±
3	Freshwater Wetlands - Road Construction – pavement, curb, sidewalk, grading, fill, slopes, vegetation removal, storm sewer inlet / pipe reaches, water main	5,723 S.F. (0.13 AC±)	Fill Material – 466 C.Y.±
4	Freshwater Wetlands - Road Construction – pavement, curb, sidewalk, grading, fill, slopes, vegetation removal, 24" culvert, storm sewer inlets / pipe reaches / treatment devices, water main, precast 35-ft wide 3-sided bridge structure w/ footings, precast retaining wall w/ footings	69,402 S.F. (1.59 AC±)	Fill Material – 14,990 C.Y.±

**USACE FILE: NAN-2015-01277-ESW**

Location	Types of Impacts / Elements	Area of Impact S.F. (AC±)	Volume of Impacts Fill / Cut (C.Y.±)
C	Freshwater Wetlands - Stormwater Outfall – headwall, rip-rap stone area, vegetation removal	347 S.F. (0.008 AC±)	Fill Material – 13 C.Y.±
D	Freshwater Wetlands - Stormwater Intake – FES pipe end, rip-rap stone area, vegetation removal	218 S.F. (0.005 AC±)	Fill Material – 8 C.Y.±
5	Freshwater Wetlands - Road Construction – pavement, curb, grading, fill, slopes, vegetation removal	754 S.F. (0.02 AC±)	Fill Material – 70 C.Y.±
6	Freshwater Wetlands - Road Construction – sidewalk, grading, fill, slopes, vegetation removal, precast retaining wall w/ footings	8,654 S.F. (0.20 AC±)	Fill Material – 1,462 C.Y.±
E	Freshwater Wetlands - Stormwater Outfall – headwall / pipe end, rip-rap stone area, vegetation removal	198 S.F. (0.005 AC±)	Fill Material – 7 C.Y.±
F	Freshwater Wetlands - Stormwater Outfall – headwall / pipe end, gabion reno mattress, vegetation removal	91 S.F. (0.002 AC±)	Fill Material – 3 C.Y.±
7	Freshwater Wetlands - Road Construction – grading, fill, slopes	594 S.F. (0.01 AC±)	Fill Material – 55 C.Y.±
8	Freshwater Wetlands - Road Construction – sidewalk, grading, fill, slopes, vegetation removal, precast retaining wall w/ footings	2,224 S.F. (0.05 AC±)	Fill Material – 544 C.Y.±
9	Freshwater Wetlands - Road Construction – pavement, curb, sidewalk, grading, fill, slopes, vegetation removal, 18" culvert, storm sewer inlets / pipe reaches, water main, precast retaining wall w/ footings	8,533 S.F. (0.20 AC±)	Fill Material – 817 C.Y.±
G	Freshwater Wetlands - Stormwater Outfall – headwall, gabion reno mattress, vegetation removal	462 S.F. (0.01 AC±)	Fill Material – 17 C.Y.±
H	Freshwater Wetlands - Stormwater Intake – headwall, gabion reno mattress, vegetation removal	248 S.F. (0.006 AC±)	Fill Material – 7 C.Y.±

USACE FILE: NAN-2015-01277-ESW

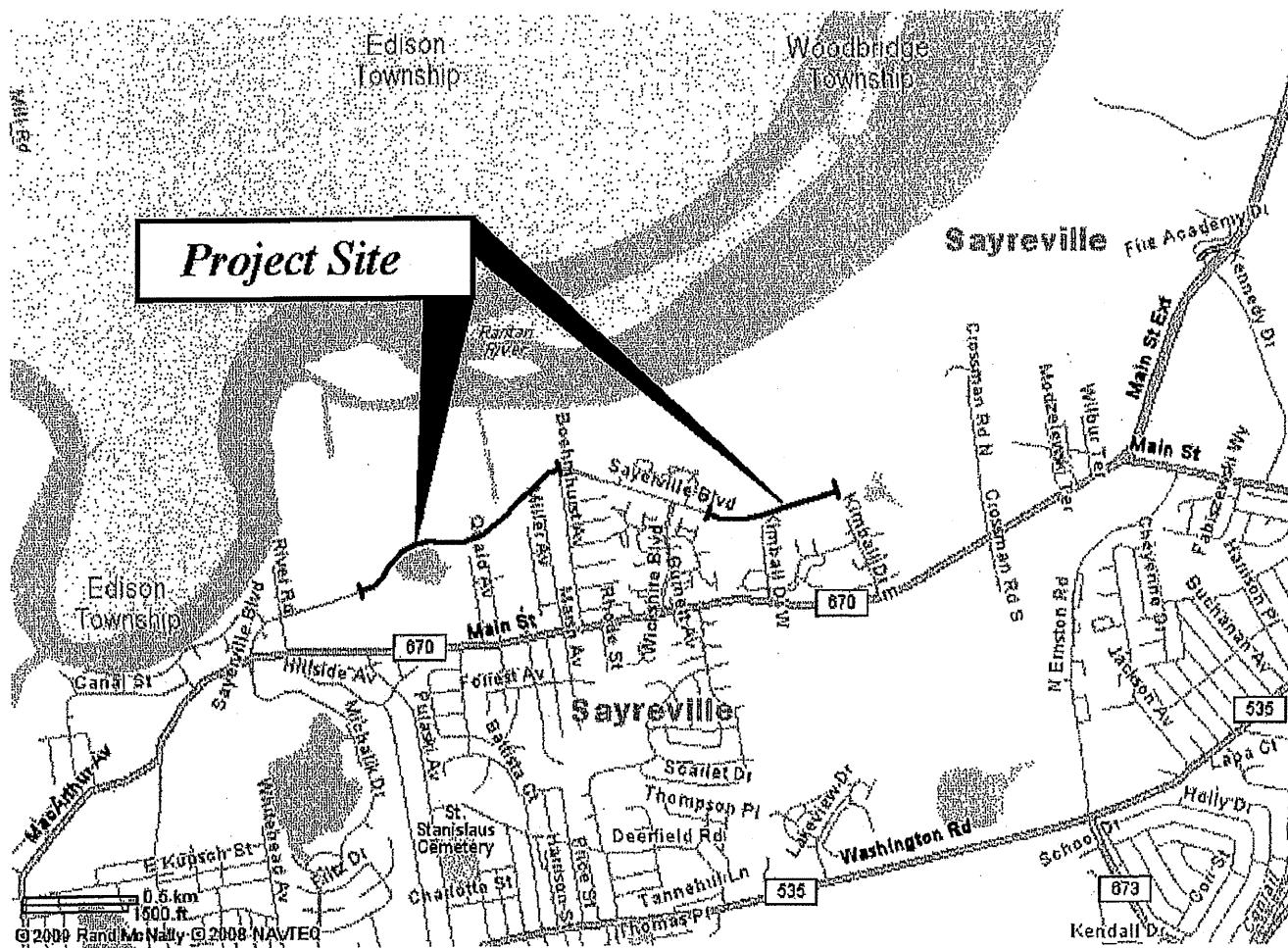
Location	Types of Impacts / Elements	Area of Impact S.F. (AC±)	Volume of Impacts Fill / Cut (C.Y.±)
I	Freshwater Wetlands - Stormwater Intake – headwall, gabion reno mattress	132 S.F. (0.003 AC±)	Fill Material – 4 C.Y.±
J	Freshwater Wetlands - Stormwater Outfall – headwall, gabion reno mattress, vegetation removal	526 S.F. (0.01 AC±)	Fill Material – 19 C.Y.±
10	Freshwater Wetlands - Road Construction – pavement, curb, sidewalk, grading, fill, slopes, vegetation removal, 3-sided culverts, storm sewer pipe reaches, water main	5,165 S.F. (0.12 AC±)	Fill Material – 340 C.Y.±
11	Freshwater Wetlands - Road Construction – pavement, curb, sidewalk, grading, fill, slopes, vegetation removal, storm sewer pipe reach	3,609 S.F. (0.08 AC±)	Fill Material – 204 C.Y.±
K	Freshwater Wetlands - Stormwater Outfall – headwall, gabion reno mattress, vegetation removal	527 S.F. (0.012 AC±)	Fill Material – 20 C.Y.±
12	Freshwater Wetlands - Road Construction – pavement, curb, sidewalk, grading, fill, slopes, vegetation removal	424 S.F. (0.01 AC±)	Fill Material – 3 C.Y.±
13	Freshwater Wetlands - Road Construction – pavement, curb, sidewalk, grading, fill, slopes, 19"X30" culvert, storm sewer inlet / pipe reaches, water main	521 S.F. (0.008 AC±)	Fill Material – 23 C.Y.±
L	Freshwater Wetlands - Stormwater Intake – headwall, rip-rap stone area	70 S.F. (0.002 AC±)	Fill Material – 3 C.Y.±
M	Freshwater Wetlands - Stormwater Outfall – rip-rap stone area	244 S.F. (0.006 AC±)	Fill Material – 9 C.Y.±
N	Freshwater Wetlands - Stormwater Outfall – headwall, gabion reno mattress, vegetation removal	252 S.F. (0.006 AC±)	Fill Material – 9 C.Y.±
14	Freshwater Wetlands - Road Construction – pavement, curb, sidewalk, grading, fill, slopes, vegetation removal, storm sewer inlet / pipe reach, water main	2,509 S.F. (0.06 AC±)	Fill Material – 74 C.Y.±

**USACE FILE: NAN-2015-01277-ESW**

**PROPOSED LOCATIONS / TYPES OF STORM SEWER IMPROVEMENTS****(Refer to USACOE Permit Plans)**

Location	Types of Storm Sewer Improvements	Our File No.: PSA00607.01
“A” / Sta. 17+60 ±, 33' ± LT	Drainage Discharge Area - Stormwater Outfall – 24"x38" HERCP Headwall (Freshwater Wetland)	
“B” / Sta. 17+40 ±, 33' ± RT	Stormwater Intake – 24"x38" HERCP Headwall (Freshwater Wetland)	
Sta. 24+10 ±, 39' ± LT	Drainage Discharge Area - Stormwater Outfall – 24"x38" HERCP Headwall (Upland)	
“AA” / Sta. 24+10 ±, 80' ± RT	Outlet Control Structure – 24"x38" HERCP Outlet Pipe Reach (Open Waters)	
“C” / Sta. 34+35 ±, 40' ± LT	Drainage Discharge Area - Stormwater Outfall – 24" RCP Headwall (Freshwater Wetland)	
“D” / Sta. 33+38 ±, 73' ± RT	Stormwater Intake – 24" RCP FES / Pipe End (Freshwater Wetland)	
“E” / Sta. 39+16 ±, 29' ± LT	Drainage Discharge Area - Stormwater Outfall – 14"x23" HERCP Headwall / Pipe End (Freshwater Wetland)	
“F” / Sta. 40+69 ±, 29' ± LT	Drainage Discharge Area - Stormwater Outfall – 15" RCP Headwall / Pipe End (Freshwater Wetland)	
Sta. 44+27 ±, 39' ± RT	Drainage Discharge Area - Proposed Infiltration Basin 1 - Stormwater Outfall – 14"x23" HERCP Headwall (Upland)	
“G” / Marsh Avenue Sta. 6+33 ±, 35' ± LT	Drainage Discharge Area - Stormwater Outfall – 18" RCP Headwall (Freshwater Wetland)	
“H” / Sta. 73+95 ±, 32' ± RT	Stormwater Intake – Headwall / 3-sided culvert (Freshwater Wetland)	
“I” / Sta. 76+02 ±, 34' ± RT	Stormwater Intake – Headwall / 3-sided culvert (Freshwater Wetland)	
“J” / Sta. 75+75 ±, 74' ± LT	Drainage Discharge Area - Stormwater Outfall – Headwall / 3-sided culvert (Freshwater Wetland)	
Sta. 79+42 ±, 118' ± LT	Drainage Discharge Area - Stormwater Outfall – Existing 15" RCP Headwall (No Disturbance)	

USACE FILE: NAN-2015-01277-ESW



**LOCAL STREET MAP**  
*Main Street By-Pass*

**LOT/BLOCK:** Various  
**MUNICIPALITY:** Borough of Sayreville  
**COUNTY:** Middlesex County  
**APPLICANT:** Borough of Sayreville  
**FILE NO:** PSA00607.01



CONSULTING AND MUNICIPAL ENGINEERS

3141 BORDENTOWN AVENUE, PARSIPPANY, NEW JERSEY 07054 — 1450 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731

PARTIAL PLAN - 3

PARTIAL PLAN - 2

PARTIAL PLAN - 1

## KEY PLAN

**PROPOSED LEGEND:**



NOTE: ELEVATION DATUM REFERENCE

- NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88)
  - CONVERSION TO NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD 29)

NAVD 88 + 1.06' = NGVD 29

"SPRING TIDE" HIGH WATER (SHW) ELEV. = (+)2.92 FEET  
 LOCAL MEAN HIGH WATER (MHW) ELEV. = (+)2.30 FEET  
 LOCAL MEAN LOW WATER (MLW) ELEV. = (-)3.03 FEET  
 REFERENCE: NAVD88 AS ESTABLISHED FROM TIDAL  
 BENCHMARK N53

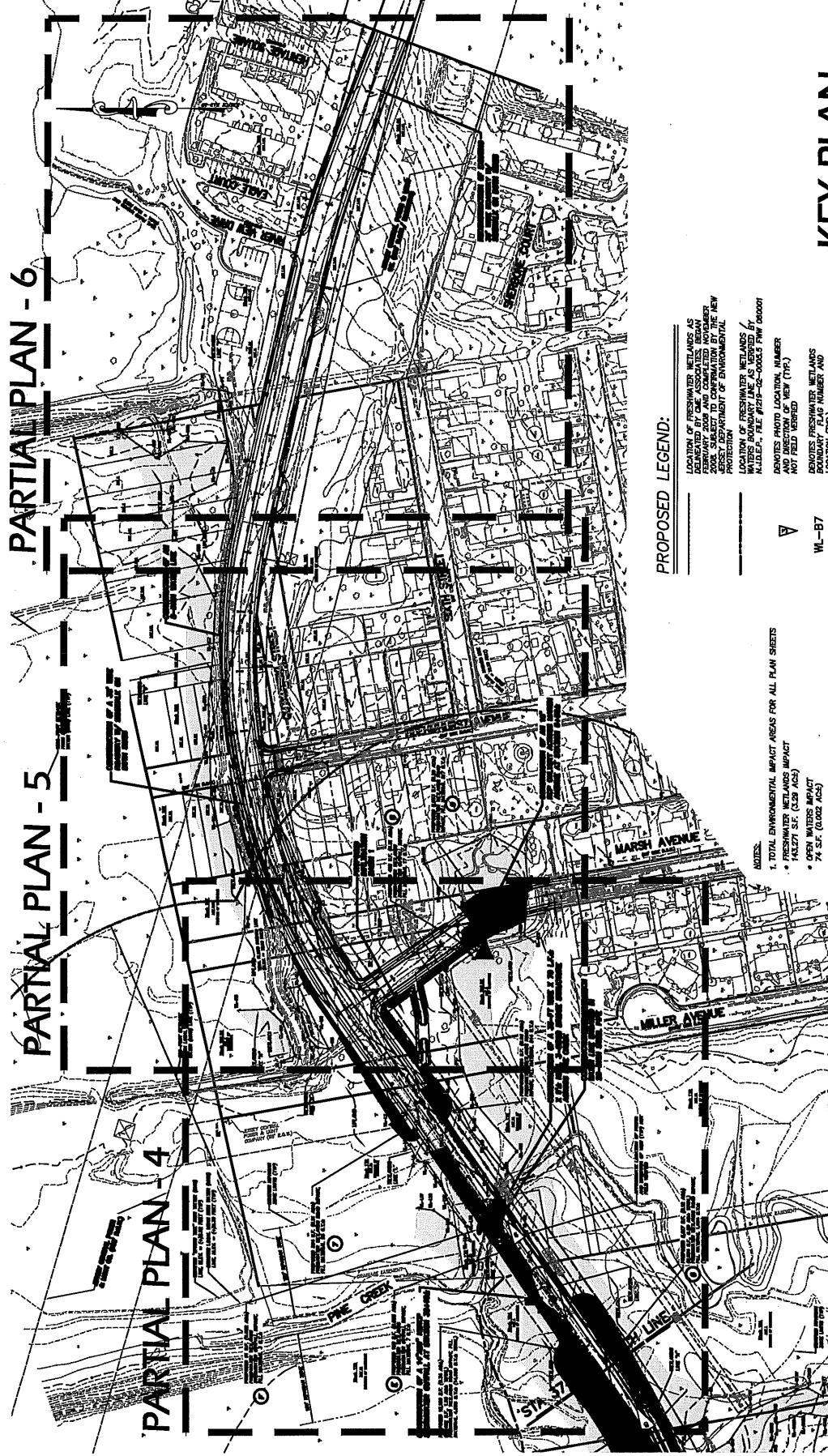
**BOROUGH OF SAYREVILLE,  
MIDDLESEX COUNTY, NEW JERSEY**

**IMPROVEMENTS TO  
MAIN STREET BY-PASS**

SEARCHED		INDEXED	
SERIALIZED		FILED	
FEB 11 1968			
FBI - NEW YORK			

\*SPRING TIDE\* HIGH WATER (SWH) ELEV. = (+2.32 FEET)  
 LOCAL MEAN HIGH WATER (MHW) ELEV. = (+2.30 FEET)  
 LOCAL MEAN LOW WATER (MLW) ELEV. = (-3.03 FEET)  
 REFERENCE: NAVD88 AS ESTABLISHED FROM TIDAL  
 BENCHMARK N53

## PARTIAL PLAN - 6



PROPOSED LEGEND:



KEY PLAN

NOTE: ELEVATION DATUM REFERENCE

— NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88)  
— CONVERSION TO NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD 29)  
 $NAVD\ 88 + 1.08' = NGVD\ 29$

"SPRING TIDE" HIGH WATER (SHW) ELEV. = (+)2.92 FEET  
LOCAL MEAN HIGH WATER (MHW) ELEV. = (+)2.30 FEET  
LOCAL MEAN LOW WATER (MLW) ELEV. = (-)3.03 FEET  
REFERENCE: NAVD88 AS ESTABLISHED FROM TIDAL  
BENCHMARK N53

<b>EMERGENCY PLAN</b>	
	
<b>EMERGENCY PLAN</b> <b>FOR REVIEW</b>	
<b>DAVID J. SAMUEL P.E.</b> <b>PEPSI-COKE PLANT</b> <b>10000 PEPSICO DR., BIRMINGHAM, AL 35244</b>	
<b>FOR REVIEW</b>	
<b>2 of 3</b>	

PARTIAL PLAN - 10

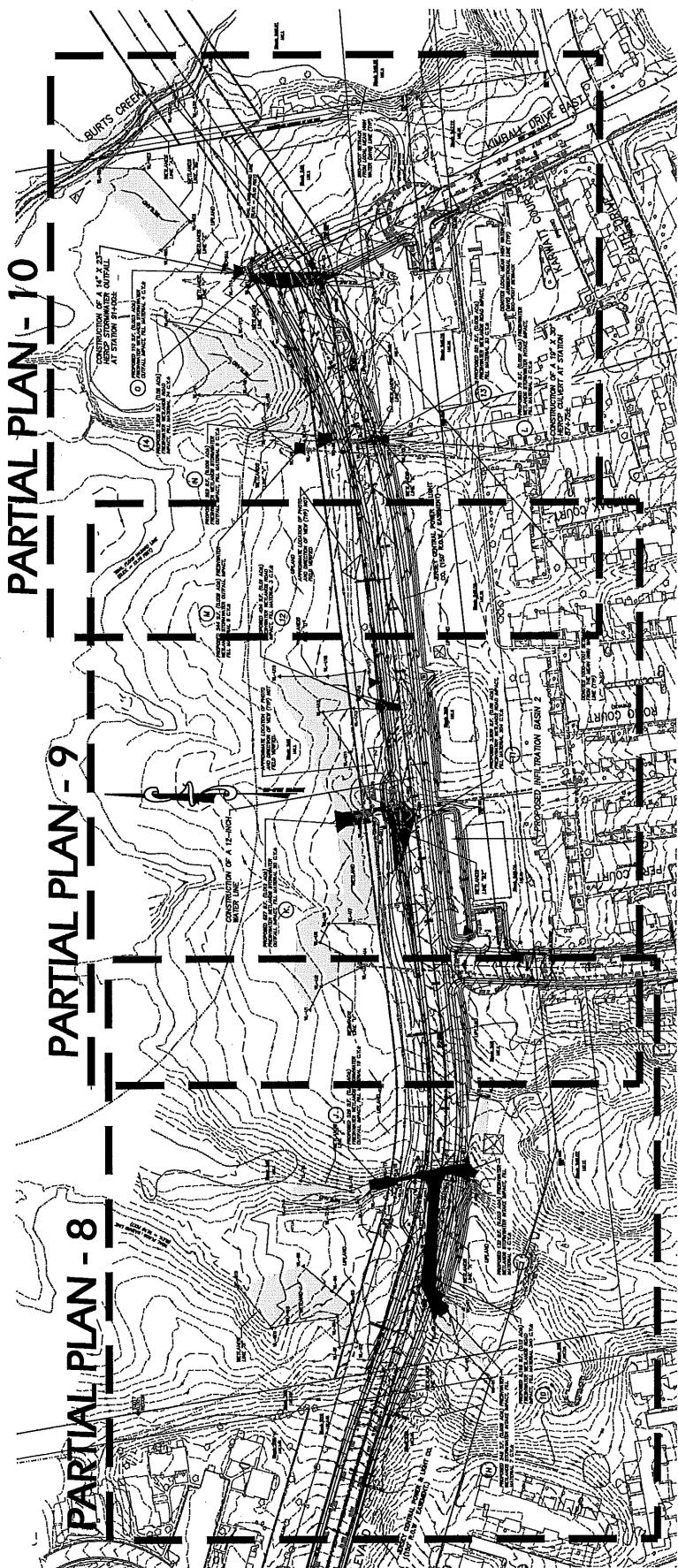
PARTIAL PIANO

## PARTIAL PLAN -

PARTIAL PLAN-10

PARTIAL PLAN-10

10



PARTIAL PLAN - 7

NO DAY OF THE WEEK IS A DAY OF REST FOR US. WE ARE ON DUTY 24 HOURS A DAY, 7 DAYS A WEEK. WE ARE NOT ALLOWED TO TAKE A DAY OFF, AND WE ARE NOT ALLOWED TO TAKE A DAY OFF.

PROPOSED LEGEND:

20



**LOCATION OF FRESHWATER WETLANDS AS  
DELINEATED BY CAE ASSOCIATES, BEGAN  
FEBRUARY 2005 AND COMPLETED NOVEMBER  
2006. SUBJECT TO CONFIRMATION BY THE NEW  
JERSEY DEPARTMENT OF ENVIRONMENTAL  
PROTECTION.**

KEY PLAN

4.	REINSON REQUESTED AS PM TRADE LETTER DATED 1/28/98	1/28/98	LZ	JAC
5.	REINSON REQUESTED AS PM USELESS - CMA LETTER DATED 5/7/98	5/7/98	SAC	JAC
6.	REINSON REQUESTED AS PM USELESS - CMA LETTER DATED 5/7/98	5/7/98	SAC	JAC
7.	REINSON REQUESTED AS PM USELESS LETTER DATED 5/20/98	5/20/98	SAC	JAC
2.	AUGUST CONSTRUCTION ACTIVITIES AS PM USELESS	1/28/98	SAC	JAC
1.	1/28/98 FWP INFORMATIONAL ACT AS PM HARF	1/28/98	SAC	JAC

Borough of Sayreville  
Middlesex County, New Jersey  
Improvements to  
Main Street By-Pass

(Top)

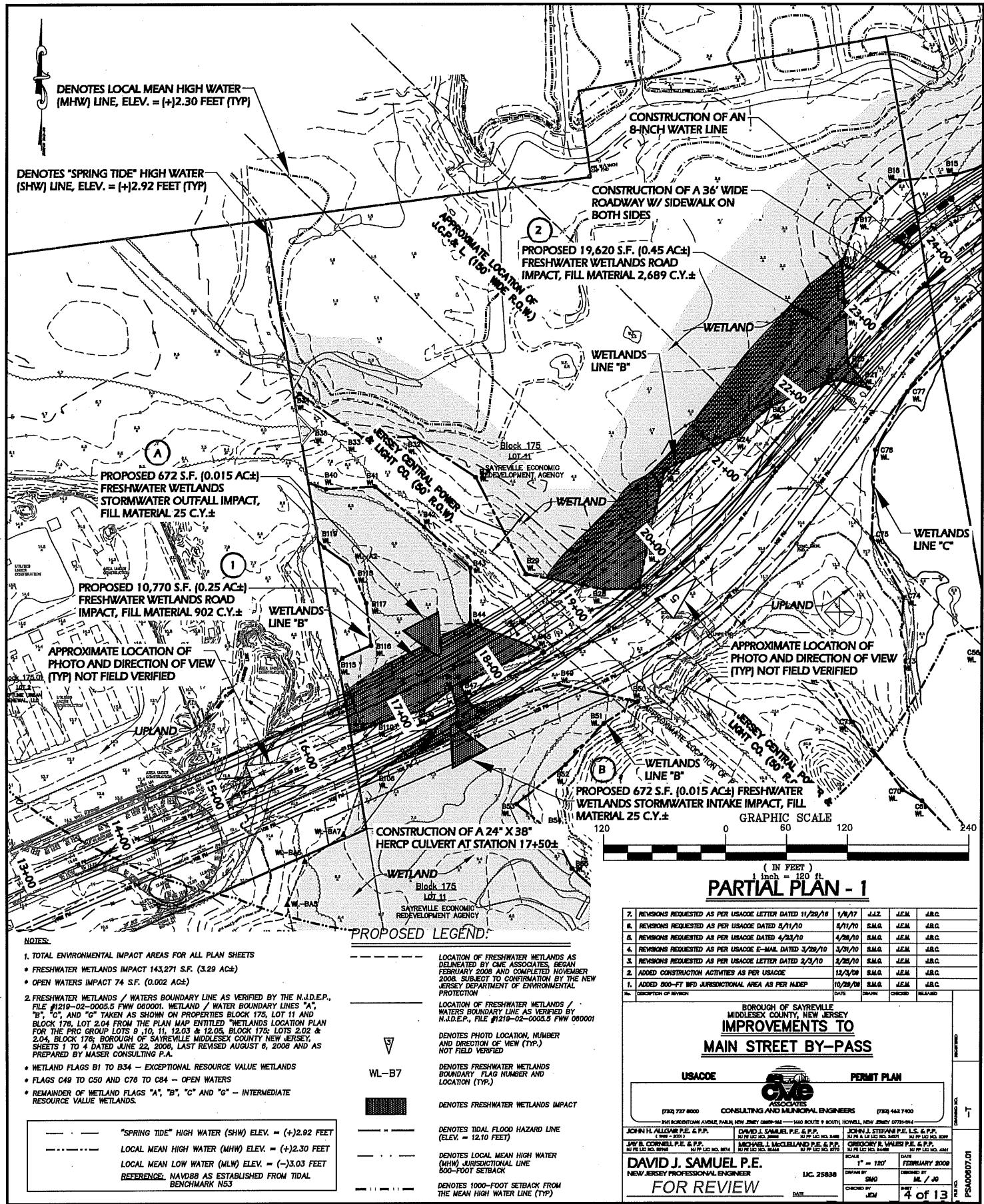
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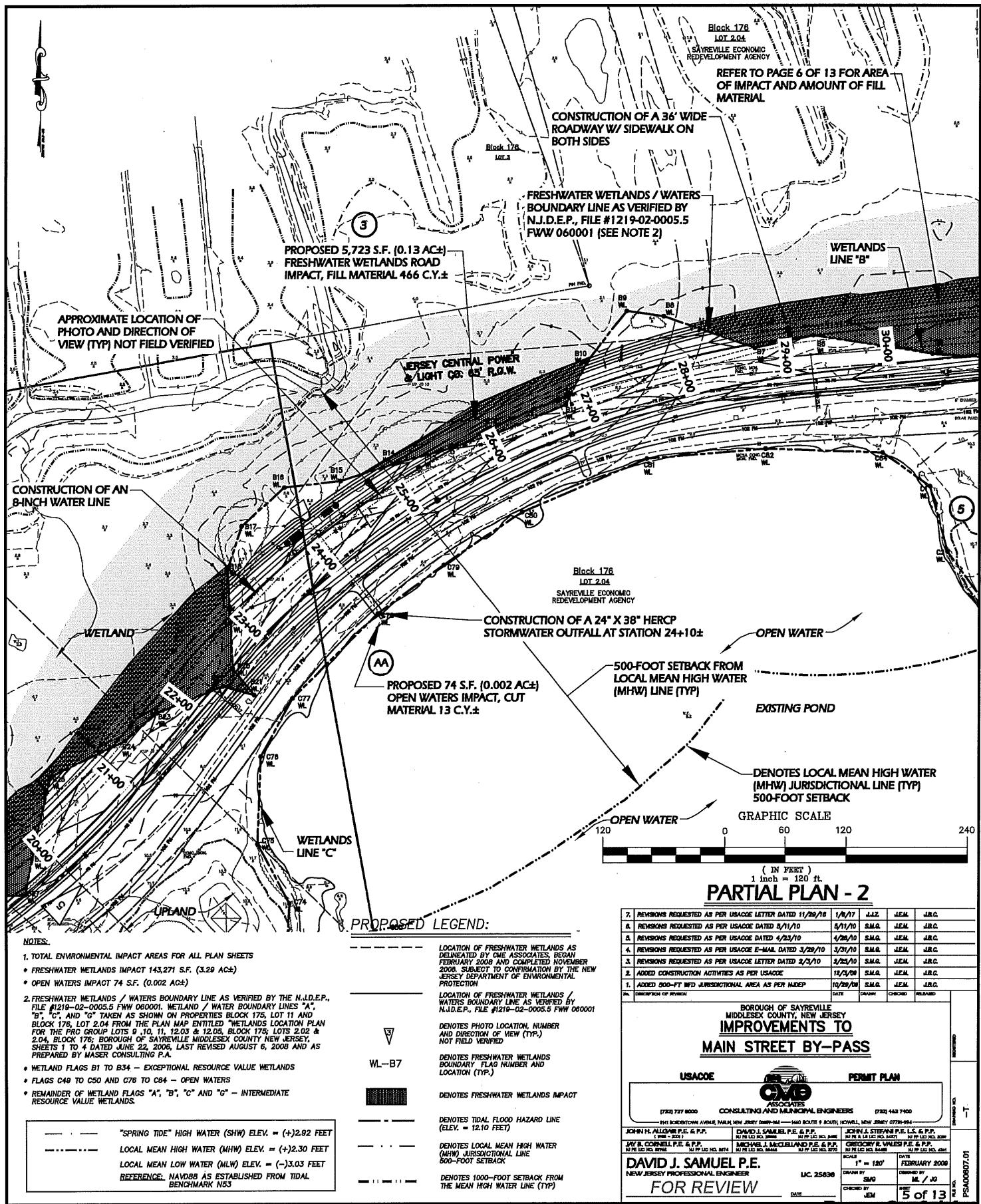
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 REFERENCE: NAVD88 AS ESTABLISHED FROM TIDAL  
 BENCHMARK NO. 3

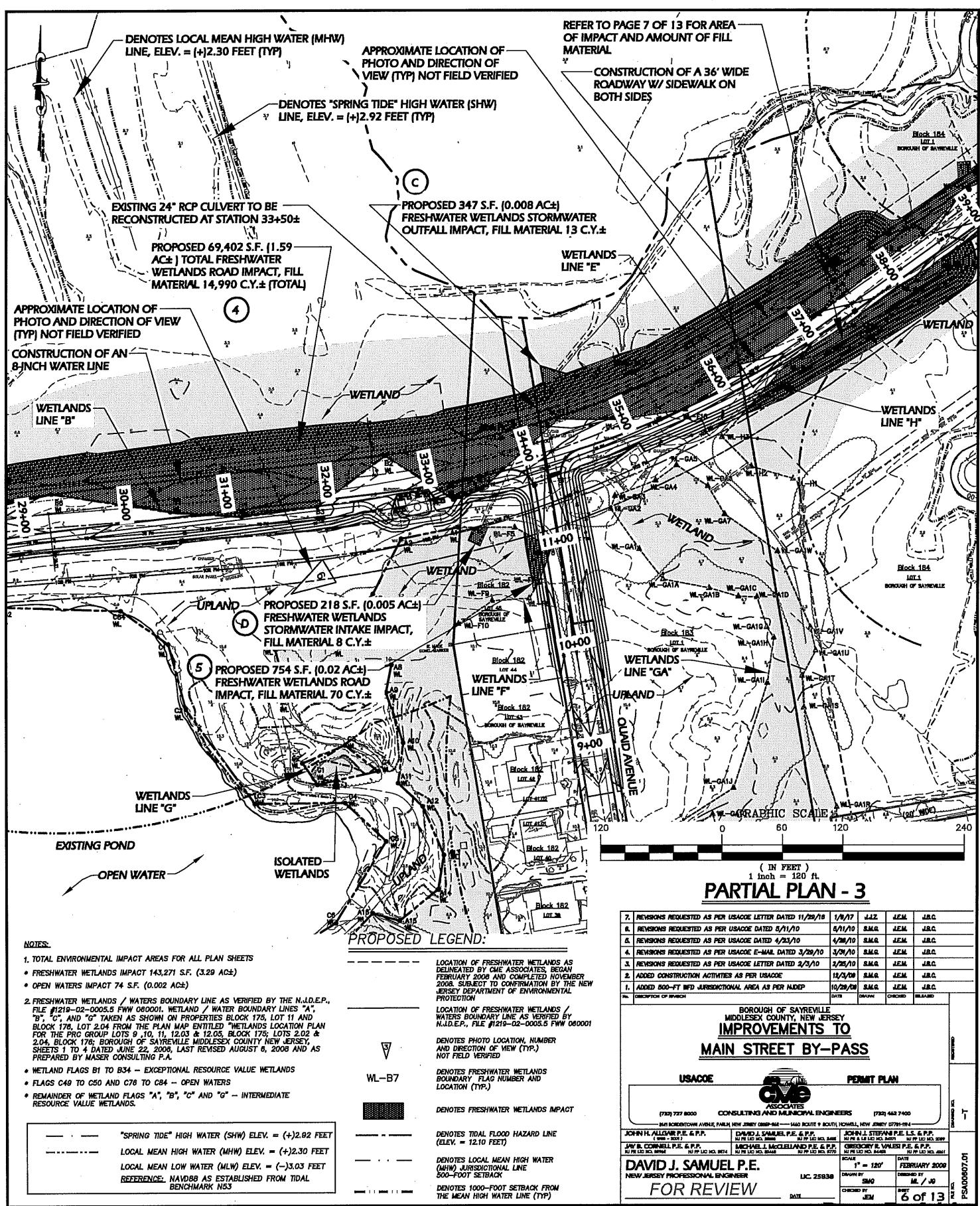
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NOTE: ELEVATION DATUM REFERENCE

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— CONVERSION TO NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD 29)

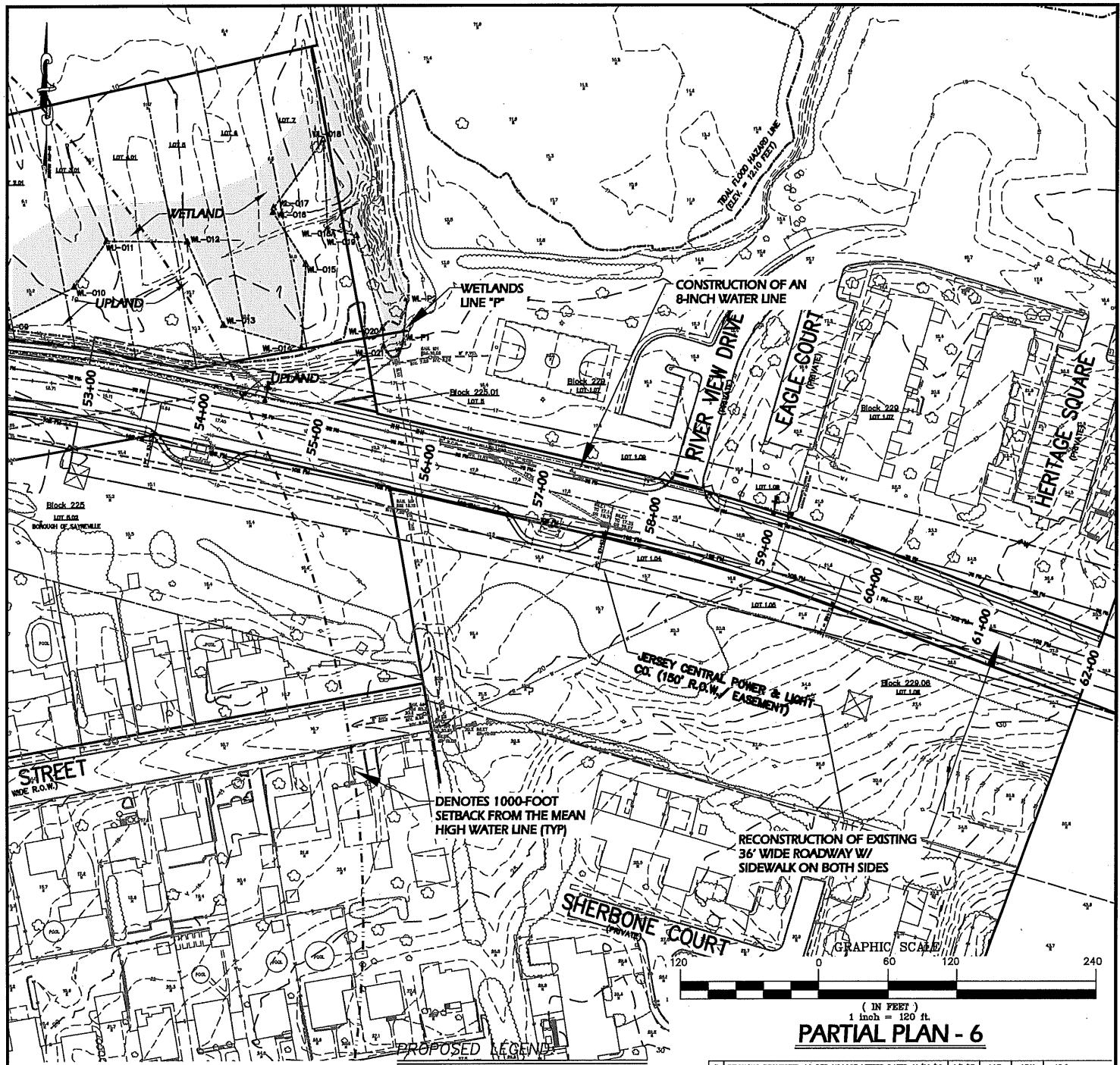












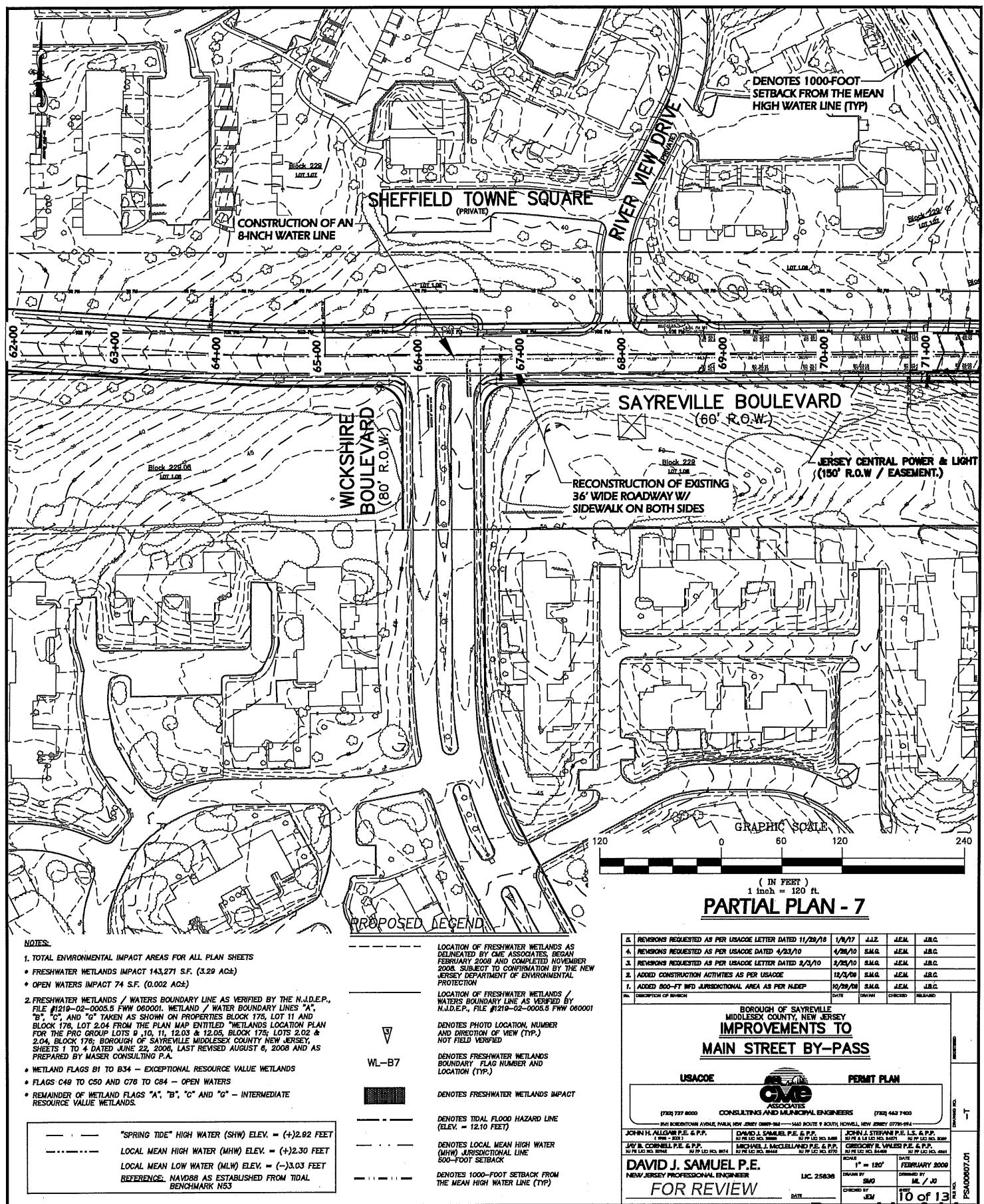
**PARTIAL PLAN - 6**

5. REVISIONS REQUESTED AS PER USACOE LETTER DATED 11/29/10	1/17	J.I.J.	J.E.M.	J.R.C.
4. REVISIONS REQUESTED AS PER USACOE DATED 4/23/10	4/8/10	S.M.G.	J.E.M.	J.R.C.
3. REVISIONS REQUESTED AS PER USACOE LETTER DATED 2/3/10	2/25/10	S.M.G.	J.E.M.	J.R.C.
2. ADDED CONSTRUCTION ACTIVITIES AS PER USACOE	1/19/09	S.M.G.	J.E.M.	J.R.C.
1. ADDED 800-FOOT INF JURISDICTIONAL AREA AS PER NJDEP	10/29/08	S.M.G.	J.E.M.	J.R.C.
No. DESCRIPTION OF WORK DATE S.M.G. J.E.M. J.R.C.				

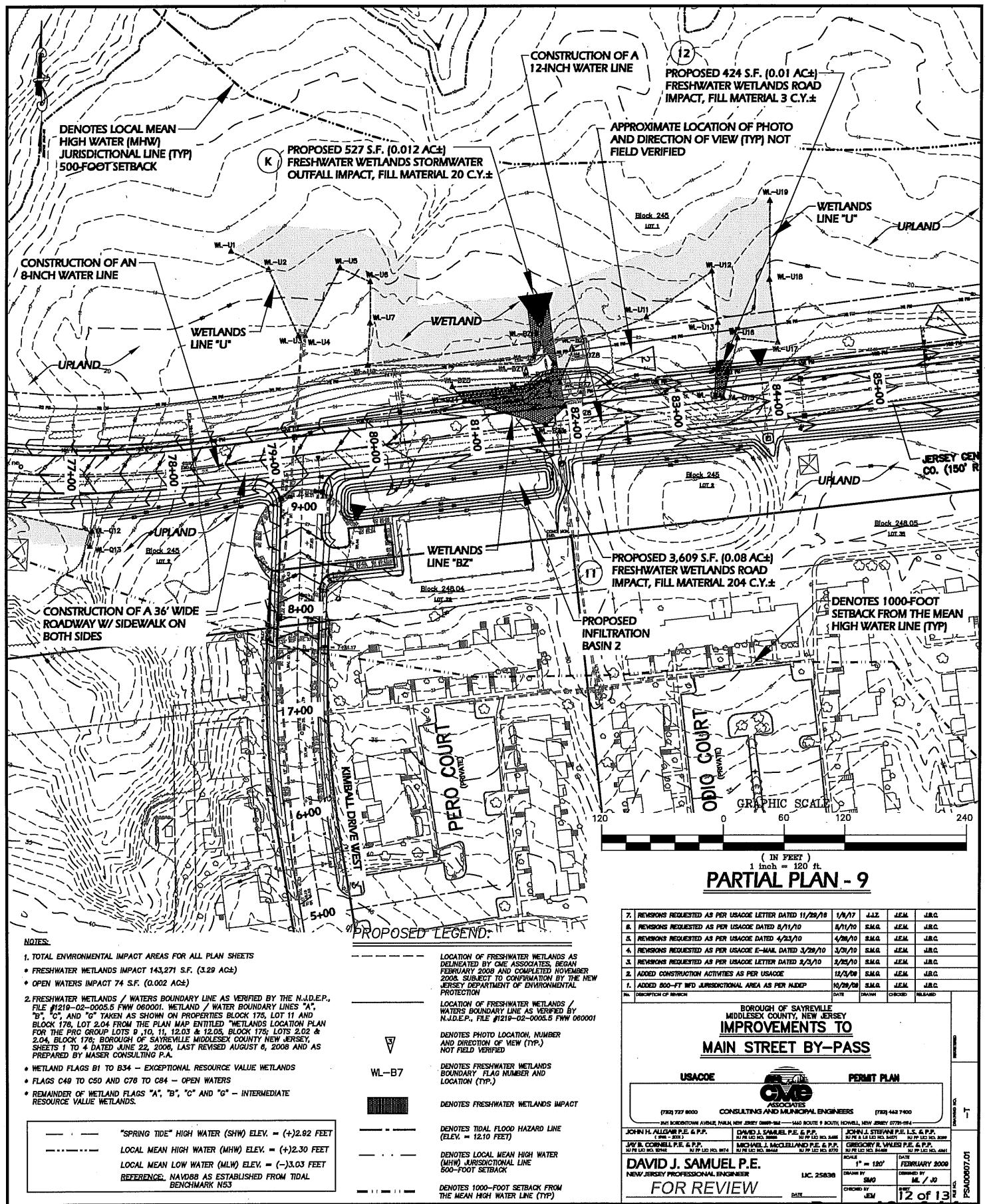
BUREAU OF SURVEYING  
MIDDLESEX COUNTY, NEW JERSEY  
IMPROVEMENTS TO  
MAIN STREET BY-PASS

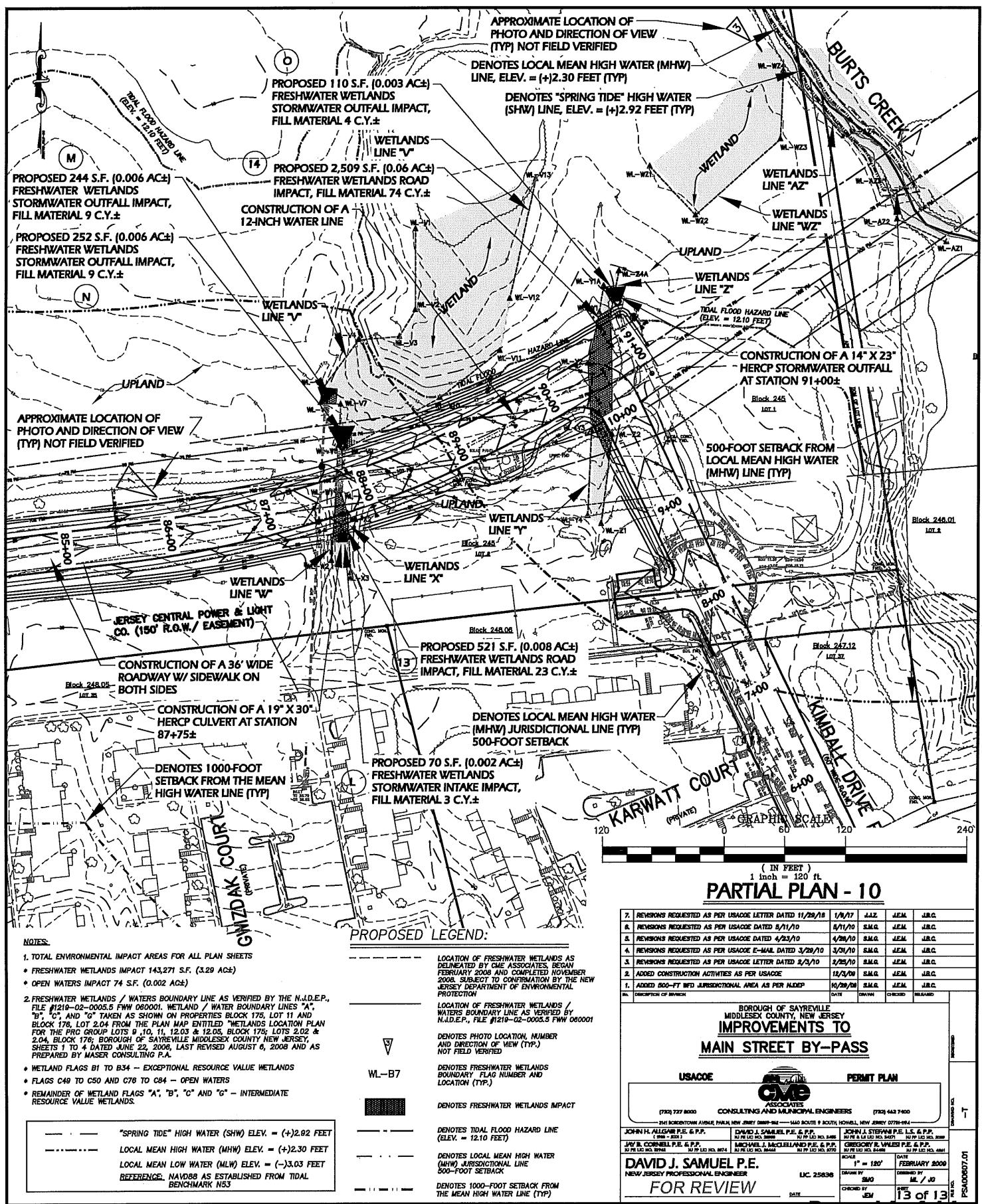
USACOE		PERMIT PLAN
CONSULTING AND MUNICIPAL ENGINEERS		
(732) 727 8000		(732) 443 7400
261 HICKORY AVENUE, PARSIPPANY, NEW JERSEY 07054 - MAIL ADDRESS: 940 SOUTH HOWELL, NEW JERSEY 07706-1114		
<p><b>JOHN H. CONNELL, P.E., S.R.P.</b> JOHN H. CONNELL, P.E., S.R.P. P.O. BOX 1114 HICKORY AVENUE PARSIPPANY, NJ 07054</p> <p><b>JAY B. CONNELL, P.E. &amp; P.P.</b> JAY B. CONNELL, P.E. &amp; P.P. P.O. BOX 1114 HICKORY AVENUE PARSIPPANY, NJ 07054</p> <p><b>DAVID J. SAMUEL, P.E.</b> DAVID J. SAMUEL, P.E. P.O. BOX 1114 HICKORY AVENUE PARSIPPANY, NJ 07054</p> <p><b>MICHAEL J. McCLELLAND, P.E. &amp; P.P.</b> MICHAEL J. McCLELLAND, P.E. &amp; P.P. P.O. BOX 1114 HICKORY AVENUE PARSIPPANY, NJ 07054</p>		
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<p><b>GREGORY H. VALESI, P.E., S.R.P.</b> GREGORY H. VALESI, P.E., S.R.P. P.O. BOX 1114 HICKORY AVENUE PARSIPPANY, NJ 07054</p>		
<p><b>DATE:</b> <u>10/10/08</u>      <b>PAGE:</b> <u>1</u>      <b>DRAWING NO.:</b> <u>100-1000</u></p> <p><b>1" = 120'</b>      <b>DRAWN BY:</b> <u>DAVID J. SAMUEL</u>      <b>CHECKED BY:</b> <u>JAY B. CONNELL</u></p> <p><b>10/10/08</b>      <b>APPROVED BY:</b> <u>JOHN H. CONNELL</u></p>		
<p><b>FOR REVIEW</b></p>		

"SPRING TIDE" HIGH WATER (SHW) ELEV. = (+)2.92 FEET  
LOCAL MEAN HIGH WATER (MHW) ELEV. = (+)2.30 FEET  
LOCAL MEAN LOW WATER (MLW) ELEV. = (-)3.03 FEET  
REFERENCE: NAVD88 AS ESTABLISHED FROM TIDAL  
BENCHMARK N53





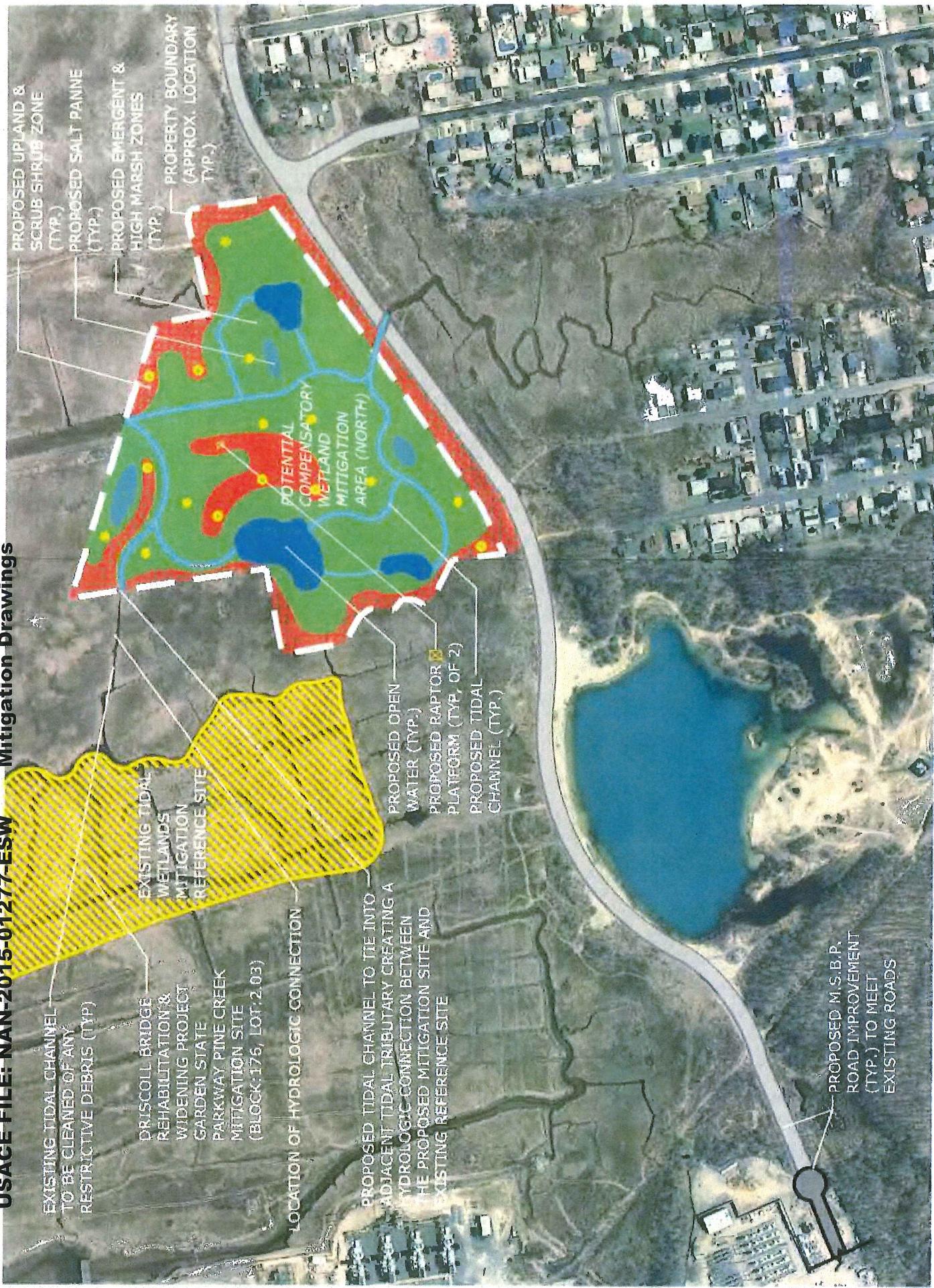






**USACE FILE: NAN-2015-01277-ESW**

**Mitigation Drawings**



**MAIN STREET BY-PASS IMPROVEMENTS—NORTHERN WETLAND COMPENSATORY MITIGATION**  
(WETLAND ESTABLISHMENT, RESTORATION AND UPLAND HABITAT IMPROVEMENTS) CONCEPT DESIGN  
FIGURE 1 REVISED 2/4/11

Page 3 of 2 N  
NORTH  
SCALE: N.T.S.