



BOSWELL ENGINEERING

ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831

Flood Hazard Area General Permit 10 (prepared in accordance with N.J.A.C. 7:13)

SUPERSTRUCTURE REPLACEMENT OF PATRIOTS WAY BRIDGE OVER RAMAPO RIVER

Permit Type:	FHA General Permit 10
Municipality:	Borough of Oakland
County:	Bergen
Watercourse:	Ramapo River
Prepared For:	Borough of Oakland
Our File No:	OK-1713
Date:	December 2020



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SECTION 1

1. Division of Land Use Regulation (DLUR)
Application
2. Flood Hazard Area Individual Permit
Application Checklist



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State of New Jersey
Department of Environmental Protection

Division of Land Use Regulation

Application Form for Permit(s)/Authorization(s)

501 E. State Street Mail Code 501-02A P.O. Box 420

Trenton, NJ 08625-0420

Phone #: (609) 777-0454 Web: www.nj.gov/dep/landuse



Please print legibly or type the following: Complete all sections and pages unless otherwise noted. Is this project a NJDOT Priority 1 Repair Project? Yes ☐ No ☒

Initial Application ☒ Response to DLUR Deficiency ☐ Extension / Modification ☐

Is this project a NJDOT Priority 2 Repair Project? Yes ☐ No ☒

1. Applicant Name: Mr./Ms./Mrs. Borough of Oakland E-Mail: _____
Address: 1 Municipal Plaza Daytime Phone: (211) 337-8111 Ext. _____
City/State: Oakland, New Jersey Zip Code 07436 Cell Phone: _____
2. Agent Name: Mr./Ms./Mrs. Frank J. Rossi E-Mail: frossi@boswellengineering.com
Firm Name: Boswell Engineering Daytime Phone: (211) 641-0770 Ext. _____
Address: 330 Phillips Avenue Zip Code 07662 Cell Phone: _____
City/State: South Hackensack, New Jersey
3. Property Owner: Mr./Ms./Mrs. Borough of Oakland E-mail: _____
Address: 1 Municipal Plaza Daytime Phone: (211) 337-8111 Ext. _____
City/State: Oakland, New Jersey Zip Code 07436 Cell Phone: _____
4. Project Name: Superstructure Replacement of Patriots Way Bridge over Ramapo River Address/Location: Patriots Way
Municipality: Oakland County: Bergen Zip Code 07436
Block(s): N/A Lot(s): N/A
N.A.D. 1983 State Plane Coordinates (feet) E(x): 567,025 N(y): 806,770 Not Longitude/Latitude
Watershed: WMA-03 Subwatershed: 02030103100050
Nearest Waterway: Ramapo River
5. Project Description: This project involves the replacement of the superstructure of Patriots Way Bridge over the Ramapo River in Oakland, NJ.

Provide if applicable: Previous LUR File # (s): _____ Waiver request ID # (s): _____

A. SIGNATURE OF APPLICANT (required):

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining and preparing the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment. If the applicant is an organization such as a corporation, municipal entity, home-owners association etc., the party responsible for the application shall sign on behalf of the organization.

Signature of Applicant

Date

Linda H. Schwager, Mayor

Print Name

Signature of Applicant

Date

Print Name

B. PROPERTY OWNER'S CERTIFICATION

I hereby certify that the undersigned is the **owner of the property** upon which the proposed work is to be done. This endorsement is certification that the owner/easement holder grants permission for the conduct of the proposed activity. In addition, written consent is hereby given to allow access to the site by representatives or agents of the Department for the purpose of conducting a site inspection(s) or survey(s) of the property in question.

In addition, the undersigned property owner hereby certifies:

1. Whether any work is to be done within an easement? Yes ☐ No ☒
(If answer is "Yes" – Signature/title of responsible party is required below)
2. Whether any part of the entire project will be located within property belonging to the State of New Jersey? Yes ☐ No ☒
3. Whether any work is to be done on any property owned by any public agency that would be encumbered by Green Acres? Yes ☐ No ☒
4. Whether this project requires a Section 106 (National Register of Historic Places) Determination as part of a federal approval? Yes ☐ No ☒

Linda H. Schwager
Signature of Owner
12/14/2020
Date
Linda H. Schwager, Mayor
Print Name

Signature of Owner/Easement Holder

Date

Print Name/Title

C. APPLICANT'S AGENT

I, Linda H. Schwager, Mayor, the Applicant/Owner and _____, co-Applicant/Owner authorize to act as my agent/representative in all matters pertaining to my application the following person:

Joseph A. Pomante, P.E.
Name of Agent
Project Manager
Occupation/Profession of Agent

Linda H. Schwager
Signature of Applicant/Owner

Signature of co-Applicant/Owner

AGENT'S CERTIFICATION:

I agree to serve as agent for the above-referenced applicant:

Joseph A. Pomante
Signature of Agent

Boswell Engineering
Name of Firm

D. STATEMENT OF PREPARER OF PLANS, SPECIFICATIONS, SURVEYOR'S OR ENGINEER'S REPORT

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining and preparing the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Stephen T. Boswell
Signature
Stephen T. Boswell, Ph.D., P.E., SECB
Print Name
President & CEO, Boswell Engineering
Position & Name of Firm
PE: 34680
Professional License # 12/16/2020
Date

E. STATEMENT OF PREPARER OF APPLICATION, REPORTS AND/OR SUPPORTING DOCUMENTS (other than engineering)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining and preparing the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Joseph A. Pomante
Signature
Joseph A. Pomante, P.E.
Print Name
Project Manager
Position & Name of Firm
PE: 43137
Professional License # 12/16/2020
Date
(If Applicable)

FEE CALCULATION TIPS:

- Whenever the calculation requires an acreage figure (including the Stormwater calculations), you will need to round UP to the nearest whole number, for example: 0.25 acres gets rounded up to one (1) acre or 2.61 acres gets rounded up to three (3) acres.
- The maximum fee for a CAFRA Individual permit, an Upland Waterfront Development permit, or an In-Water Waterfront Development permit is \$30,000 per permit type. For example: if you are applying for both an upland and an in-water Waterfront Development the maximum fee is applied to each permit for a maximum total of \$60,000 plus any applicable stormwater review fee.
- The stormwater review fee is applied only one time per project, maximum of \$20,000, regardless of multiple applications.

APPLICATION(S) FOR: Please check each permit/authorization that you are applying for and fill in the calculated fee (for each) in the "Fee Paid" column

	Coastal General Permits	Fee Amount	Fee Paid
☐	CZMGP1 Amusement Pier Expansion	\$1,000.00	
☐	CZMGP2 Beach/Dune Activities	\$1,000.00	
☐	CZMGP3 Voluntary Reconstruction Certain Residential/Commercial Dev.	\$1,000.00	
☐	CZMGP4 Development of one or two SFH or Duplexes	\$1,000.00	
☐	CZMGP5 Expansion or Reconstruction SFH/Duplex	\$1,000.00	
☐	CZMGP6 New Bulkhead/Fill Lagoon	\$1,000.00	
☐	CZMGP7 Revetment at SFH/Duplex	\$1,000.00	
☐	CZMGP8 Gabions at SFH/Duplex	\$1,000.00	
☐	CZMGP9 Support Facilities at a Marina	\$1,000.00	
☐	CZMGP10 Reconstruction of Existing Bulkhead	\$1,000.00	
☐	CZMGP11 Hazard Waste Clean-up	\$1,000.00	
☐	CZMGP12 Landfall of Utilities	\$1,000.00	
☐	CZMGP13 Recreation Facility at Public Park	\$1,000.00	
☐	CZMGP14 Bulkhead Construction & Fill Placement	\$1,000.00	
☐	CZMGP15 Construction of Piers/Docks/Ramps in Lagoons	\$1,000.00	
☐	CZMGP16 Minor Maintenance Dredging in Lagoons	\$1,000.00	
☐	CZMGP17 Eroded Shoreline Stabilization	\$1,000.00	
☐	CZMGP18 Avian Nesting Structures	\$1,000.00	
☐	CZMGP19 Modification of Electrical Substations	\$1,000.00	
☐	CZMGP20 Legalization of the Filling of Tidelands	\$1,000.00	
☐	CZMGP21 Construction of Telecommunication Towers	\$1,000.00	
☐	CZMGP22 Construction of Tourism Structures	\$1,000.00	
☐	CZMGP23 Geotechnical Survey Borings	\$1,000.00	
☐	CZMGP24 Habitat Creation, Restoration, Enhancement, Living Shorelines	No Fee	No Fee
☐	CZMGP25 1 to 3 Turbines < 200 Feet	\$1,000.00	
☐	CZMGP26 Wind Turbines < 250 Feet	\$1,000.00	
☐	CZMGP27 Dredge Lagoon (post storm event)	\$1,000.00	
☐	CZMGP28 Dredge post Bulkhead Failure	\$1,000.00	
☐	CZMGP29 Dredge Marina (post storm event)	\$1,000.00	
☐	CZMGP30 Aquaculture Activities	\$1,000.00	
☐	CZMGP31 Placement of Shell (shellfish areas)	\$1,000.00	
☐	CZMGP32 Application of Herbicide in Coastal Wetlands	\$1,000.00	
☐	CZM Permit-by-Certification (On-line application ONLY)	\$1000.00	

	Coastal Individual Permits	Fee Amount	Fee Paid
☐	CAFRA – IP SFH or Duplex	\$2,000	
☐	CAFRA – IP Residential not SFH/duplex	\$3,000 x _____ # of units	
☐	CAFRA – IP Commercial, Industrial or Public	\$3,000 x _____ acres of the site	
☐	WFD - IP SFH or Duplex (Upland/Landward of MHWL)	\$2,000	
☐	WFD – IP Residential not SFH/duplex (Upland/Landward of MHWL)	\$3,000 x _____ # of units	
☐	WFD – IP Commercial, Industrial or Public Development (Upland/Landward of MHWL)	\$3,000 x _____ acres of the site	
☐	WFD - IP SFH or Duplex (Waterward of MHWL)	\$2,000	
☐	WFD – IP Residential not SFH/duplex (Waterward of MHWL)	\$3,000 x _____ acres of water area impacted	
☐	WFD – IP Commercial, Industrial or Public Development (Waterward of MHWL)	\$3,000 x _____ acres of water area impacted	
☐	CSW – IP SFH or Duplex	\$2,000	
☐	CSW – IP All Development not SFH/duplex	\$3,000 x _____ acres of wetlands disturbed	

	Additional Coastal Authorizations	Fee Amount	Fee Paid
☐	Modification of a Coastal GP	\$500	
☐	Minor Technical Modification of a Coastal Wetland Permit	\$500 x _____ # of items to be revised	
☐	Minor Technical Modification of a CAFRA IP	\$500 x _____ # of items to be revised	
☐	Minor Technical Modification of a Waterfront IP	\$500 x _____ # of items to be revised	
☐	Major Technical Modification of a Coastal Wetland Permit	0.30 x _____ original fee = Fee (Minimum \$500)	
☐	Major Technical Modification of a CAFRA IP	0.30 x _____ original fee = Fee (Minimum \$500)	
☐	Major Technical Modification of a Waterfront IP	0.30 x _____ original fee = Fee (Minimum \$500)	
☐	Zane Letter (Waterfront Development Exemption)	\$500	
☐	CAFRA Exemption Request	\$500	
☐	CZM General Permit Extension	\$240 x _____ # of GPs to be extended	
☐	Waterfront Development Individual Permit – Extension (Waterward of MHWL)	0.25 x _____ original fee = Fee (Maximum \$3,000)	
☐	Meadowlands District Water Quality Certificate	\$5,000 + (\$2,500 x _____ # acres regulated area disturbed)	
☐	Individual Permit Equivalency/CERCLA	No Fee	No Fee

	Consistency Determination	Fee Amount	Fee Paid
☐	Water Quality Certificate (NOTE: No fee required under the coastal program)	\$5,000 + (\$2,500 x _____ # acres regulated area disturbed)	
☐	Federal Consistency	No Fee	No Fee

APPLICATION(S) FOR: Please check each permit/authorization that you are applying for and fill in the calculated fee (for each) in the "Fee Paid" column

	Freshwater Wetlands General Permits	Fee Amount	Fee Paid
☒	FWGP1 Main. & Repair Exist Feature	\$1,000.00	\$1,000.00
☐	FWGP2 Underground Utility Lines	\$1,000.00	
☐	FWGP3 Discharge of Return Water	\$1,000.00	
☐	FWGP4 Hazard Site Invest/Cleanup	\$1,000.00	
☐	FWGP5 Landfill Closures	\$1,000.00	
☐	FWGP6 Filling of Non-Tributary Wetlands	\$1,000.00	
☐	FWGP6A TA Adj. to Non-Tributary Wetlands	\$1,000.00	
☐	FWGP7 Human-made Ditches/Swales in Headwaters	\$1,000.00	
☐	FWGP8 House Additions	\$1,000.00	
☐	FWGP9 Airport Sight-line Clearing	\$1,000.00	
☐	FWGP10A Very Minor Road Crossings	\$1,000.00	
☐	FWGP10B Minor Road Crossings	\$1,000.00	
☐	FWGP11 Outfalls / Intakes Structures	\$1,000.00	
☐	FWGP12 Surveying and Investigating	\$1,000.00	
☐	FWGP13 Lake Dredging	\$1,000.00	
☐	FWGP14 Water Monitoring Devices	\$1,000.00	
☐	FWGP15 Mosquito Control Activities	\$1,000.00	
☐	FWGP16 Creation/Restoration/Enhancement Habitat	No Fee	No Fee
☐	FWGP17 Trails / Boardwalks	\$1,000.00	
☐	FWGP17A Non-Motorized Multi-Use Paths	\$1,000.00	
☐	FWGP18 Dam Repairs	\$1,000.00	
☐	FWGP19 Docks and Piers	\$1,000.00	
☐	FWGP20 Bank Stabilization	\$1,000.00	
☐	FWGP21 Above Ground Utility Lines	\$1,000.00	
☐	FWGP22 Expansion Cranberry Growing (Pinelands)	No Fee	No Fee
☐	FWGP23 Spring Developments	\$1,000.00	
☐	FWGP24 Malfunctioning Individual Septic Systems	No Fee	No Fee
☐	FWGP25 Minor Channel / Stream Cleaning	\$1,000.00	
☐	FWGP26 Redevelop Previously Disturbed Site	\$1,000.00	
☐	FWGP27 Application of herbicide in wetlands	\$1,000.00	

	Highlands	Fee Amount	Fee Paid
☐	Pre-application Meeting	\$500.00	
☐	Resource Area Determination Boundary Delineation < one acre	\$500.00	
☐	Resource Area Footprint of Disturbance	\$500 + (\$50 x _____ # of acres of the site)	
☐	Resource Area Determination Verification (> one acre)	\$750 + (\$100 x _____ # of acres of the site)	
☐	Resource Area Determination Extension	0.25 x _____ original fee (Minimum \$250)	
☐	HPAAGP 1/ Habitat Creation/Enhance	No Fee	No Fee
☐	HPAAGP 2 Bank Stabilization	\$500.00	
☐	Preservation Area Approval (PAA)		
☐	PAA with Waiver (Specify type below)		
	Waiver Type:		
☐	HPAA Extension	\$1,000	

	Freshwater Individual Permits	Fee Amount	Fee Paid
☐	FWW IP-SFH/Duplex-Wetlands	\$2,000	
☐	FWW IP-Wetlands (not SFH/Duplex)	\$5,000 + (\$2,500 x _____ # acres FWW disturbed)	
☐	FWW IP-SFH/Duplex-Open Water	\$2,000	
☐	FWW IP-Open Water (not SFH/Duplex)	\$5,000 + (\$2,500 x _____ # acres FWW disturbed)	

	Freshwater Wetlands Transition Area Waivers	Fee Amount	Fee Paid
☐	TAW Averaging Plan	With valid LOI \$1,000 + (\$100 x _____ # acres TA disturbed)	
☐	TAW Hardship Reduction		
☐	TAW Reduction per N.J.A.C. 7:7A-8.1(d)		
☐	TAW Special Activity Individual Permit		
☐	TAW Special Activity Linear Development	Without valid LOI \$1000 + (\$100 x _____ acres TA disturbed) + LOI Fee	
☐	TAW Special Activity Redevelopment		
☐	TAW Special Activity Stormwater		

	Letter of Interpretation	Fee Amount	Fee Paid
☐	LOI Presence Absence	\$1,000.00	
☐	LOI Footprint of Disturbance (3 Maximum)	\$1,000.00 each	
☐	LOI Delineation < 1.00 Acres	\$1,000.00	
☐	LOI Verification	\$1,000 + (\$100 x _____ # of acres of the site)	
☐	LOI Partial Site Verification	\$1,000 + (\$100 x _____ # of acres of the site subject to LOI)	
☐	LOI Extension Presence/Absence, Footprint, Delineation < 1 acre (Re-Issuance)	\$500	
☐	LOI Extension Line Verification (Re-Issuance)	0.50 x _____ original fee (Minimum \$500)	

	Additional Freshwater Wetlands Authorizations	Fee Amount	Fee Paid
☐	FWGP Administrative Modification	No fee	No Fee
☐	FWGP Minor technical modification	\$500.00	
☐	FWGP Major technical modification	\$500.00	
☐	Individual Permit Administrative Modification	No Fee	No Fee
☐	Individual Permit Minor Technical Modification	\$500.00	
☐	Individual Permit Major Technical Modification	0.30 x _____ original fee (Minimum \$500)	
☐	TAW Administrative Modification	No Fee	No Fee
☐	TAW Minor Technical Modification	\$500.00	
☐	TAW Major Technical Modification	0.30 x _____ original fee (Minimum \$500)	
☐	FWGP Extension	\$500 x _____ # of items to be extended	
☐	Individual Permit/Open Water Permit Extension	0.30 x _____ original fee (Minimum \$500)	
☐	TAW Extension	\$500 x _____ # of items to be extended	
☐	Freshwater Wetlands Exemption	\$500.00	
☐	TAW Exemption	\$500.00	
☐	Permit Equivalency/CERCLA	No Fee	No Fee

APPLICATION(S) FOR: Please check each permit/authorization that you are applying for and fill in the calculated fee (for each) in the "Fee Paid" column

	Flood Hazard Area General Permits	Fee Amount	Fee Paid
☐	FHAGP1 Channel Clean w/o Sediment Removal	No Fee	
☐	FHAGP1 Channel Clean w/Sediment Removal	No Fee	
☐	FHAGP2 Mosquito Control	\$1,000.00	
☐	FHAGP3 Scour Protection Bridges/Culverts	\$1,000.00	
☐	FHAGP4 Creation/Restoration/Enhancement of Habitat and Water Quality Values and Functions	No Fee	
☐	FHAGP5 Reconstruction and/or Elevation of Building in a Floodway	No Fee	
☐	FHAGP6 Construction of One SFH/Duplex and Driveway	\$1,000.00	
☐	FHAGP7 Relocation of Manmade Roadside Ditches for Public Roadway Improvements	\$1,000.00	
☐	FHAGP8 Placement of Storage Tanks	\$1,000.00	
☐	FHAGP9 Construction/Reconstruction of Bridge/Culvert Across Water < 50 Acres	\$1,000.00	
☒	FHAGP10 Construction/Reconstruction of Bridge/Culvert Across Water > 50 Acres	\$1,000.00	\$1,000.00
☐	FHAGP11 Stormwater Outfall Along Regulated Water <50 Acres	\$1,000.00	
☐	FHAGP12 Construction of Footbridges	\$1,000.00	
☐	FHAGP13 Construction of Trails and Boardwalks	\$1,000.00	
☐	FHAGP14 Application of herbicide in riparian zone	\$1,000.00	

	Flood Hazard Area Individual Permits	Fee Amount	Fee Paid
☐	FHA - IP SFH and/or Accessory Structures	\$2,000	
☐	Individual Permit (Fee is calculated by adding the base fee to the specific elements below)	\$3,000 Base Fee	
	FHA - IP Utility*	+\$1,000 x _____ # of water crossings)	
	FHA - IP Bank/Channel (No Calculation Review) *	+\$1,000	
	FHA - IP Bank/Channel (With Calculation Review) *	+\$4,000 + (\$400 x _____ per 100 linear ft.))	
	FHA - IP Bridge/Culvert/Footbridge/Low Dam (No Calculation Review)*	+\$1,000 x _____ # of structures)	
	FHA - IP Bridge/Culvert/Footbridge/Low Dam (With Calculation Review) *	+\$4,000 x _____ # of structures)	
	FHA - Review of Flood Storage Displacement (net fill) Calculations*	+\$4,000	
	Total	IP Review Fee	

	Flood Hazard Area Verifications	Fee Amount	Fee Paid
☐	Verification-Delineation of Riparian Zone Only	\$1,000	
☐	Verification-Method 1 (DEP Delineation) *	\$1,000	
☐	Verification-Method 2 (FEMA Tidal Method) *	\$1,000	
☐	Verification-Method 3 (FEMA Fluvial Method) *	\$1,000	
☐	Verification-Method 4 (FEMA Hydraulic Method)	\$4,000 + (\$400 x _____ per 100 linear feet)	
☐	Verification-Method 5 (Approximation Method) *	\$1,000	
☐	Verification-Method 6 (Calculation Method)	\$4,000+(\$400 x _____ per 100 linear feet)	

*Fee not applicable to (1) SFH

	Additional Flood Hazard Area Authorizations	Fee Amount	Fee Paid
☐	FHA Hardship Exception Request	\$4,000	
☐	FHA GP Administrative Modification	No Fee	No Fee
☐	FHA GP Minor technical modification	\$500 x _____ # of project elements to be revised	
☐	FHA GP Major technical modification	0.30 x _____ original fee (Minimum \$500)	
☐	FHA Individual Permit Administrative Modification	No Fee	No Fee
☐	FHA Individual Permit Minor Technical Modification	\$500 x _____ # of project elements to be revised	
☐	FHA Individual Permit Major Technical Modification	0.30 x _____ original fee (Minimum \$500)	
☐	FHA Verification Administrative Modification	No Fee	No Fee
☐	FHA Verification Minor Technical Modification	\$500 x _____ # of project elements to be revised	
☐	FHA Verification Major Technical Modification	0.30 x _____ original fee (Minimum \$500)	
☐	FHA GP Extension	\$240	
☐	FHA Individual Permit Extension	0.25 x _____ original fee	
☐	FHA Verification Extension of Methods 1, 2, 3, 5, or Riparian Zone Only	\$240	
☐	FHA Verification Extension of Methods 4 or 6	0.25 x _____ original fee	
☐	FHA Individual Permit Equivalency/CERCLA	No Fee	No Fee
☐	FHA GP Administrative Modification	No Fee	No Fee

Stormwater Review Fee (Maximum Fee = \$20,000)	Fee Amount (Round UP to the nearest whole number)	Fee Paid
☐ Stormwater Review (Fee is calculated by adding the base fee to the specific elements below)	\$3,000 Base Fee	
Review of Groundwater Calculations	+ \$250 x _____ # acres disturbed	
Review of Runoff Quantity Calculations	+ \$250 x _____ # acres disturbed	
Review of Water Quality Calculations	+ \$250 x _____ # acres impervious surface	
Total	Stormwater Review Fee	

	Applicability Determination	Fee Amount	Fee Paid
☐	Coastal Applicability Determination	No Fee	No Fee
☐	Flood Hazard Applicability Determination	No Fee	No Fee
☐	Highlands Jurisdictional Determination	No Fee	No Fee
☐	Executive Order 215	No Fee	No Fee

TOTAL FEE:	\$2,000.00
CHECK NUMBER:	002365

*Fee not applicable to (1) SFH

APPLICANT NAME: _____

FILE # (if known): _____

APPLICATION FORM - APPENDIX I

Section 1: Please provide the following information for the overall project site. All area measurements shall be recorded in acres to the nearest thousandth (0.001 acres).

<u>PROPOSED:</u>	<u>PRESERVED</u>	<u>UNDISTURBED</u>	<u>DISTURBED</u>
<i>RIPARIAN ZONE</i>	_____	_____	_____
<i>CZMRA FORESTED</i> <i>(CZMRA IP – Only)</i>	_____	_____	_____
<i>E & THABITAT</i> <i>Endangered and/or Threatened</i>	_____	_____	_____
<i>FRESHWATER WETLANDS</i>	_____	_____	_____

Section 2: Please provide the following information for each permit/authorization requested pursuant to the Freshwater Wetlands Protection Act. All area measurements shall be recorded in acres to the nearest thousandth (0.001 acres). Use additional sheets if necessary

PERMIT TYPE	WETLAND TYPE <i>Emergent, Forest, Shrub, Etc.</i>	RESOURCE CLASSIFICATION <i>Ordinary, Intermediate, Exceptional, EPA, Etc.</i>	
<u>PROPOSED DISTURBANCE:</u>	<u>WETLANDS</u>	<u>TRANSITION AREA</u>	<u>SOW</u>
<i>FILLED</i>	_____	_____	_____
<i>EXCAVATED</i>	_____	_____	_____
<i>CLEARED</i>	_____	_____	_____
<i>TEMPORARY DISTURBANCE</i>	_____	_____	_____

PERMIT TYPE	WETLAND TYPE <i>Emergent, Forest, Shrub, Etc.</i>	RESOURCE CLASSIFICATION <i>Ordinary, Intermediate, Exceptional, EPA, Etc.</i>	
<u>PROPOSED DISTURBANCE:</u>	<u>WETLANDS</u>	<u>TRANSITION AREA</u>	<u>SOW</u>
<i>FILLED</i>	_____	_____	_____
<i>EXCAVATED</i>	_____	_____	_____
<i>CLEARED</i>	_____	_____	_____
<i>TEMPORARY DISTURBANCE</i>	_____	_____	_____



State of New Jersey
Department of Environmental Protection
Revised: April 15, 2019 Website: www.nj.gov/dep/landuse



FLOOD HAZARD AREA APPLICATION CHECKLIST

General Permit 10— Reconstruction of a bridge or culvert across a regulated water with a drainage area of 50 acres or more

CALL NJDEP AT (609) 777-0454 IF YOU HAVE ANY QUESTIONS

To apply for an authorization under general permit 10, please submit the information below to:

Postal Mailing Address

NJ Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
Trenton, New Jersey 08625-0420
Attn: Application Support

Street Address (Courier & Hand Carry Only)

NJ Department of Environmental Protection
Division of Land Use Regulation
501 East State Street
Station Plaza 5, 2nd Floor
Trenton, New Jersey 08609
Attn: Application Support

Electronic Submission

Access the submission system at <https://njdeponline.com>. Follow the registration process and create an account. To submit an application, select the service "Apply for a Land Use Permit or Authorization."

CALL NJDEP AT (609) 777-0454 IF YOU HAVE ANY QUESTIONS

1. A completed [application form](#) (Paper submissions ONLY)
2. A completed [Property Owner Certification form](#) (Electronic submissions ONLY)
 - Acceptable file formats include pdf, jpg, and png.
3. Public notice:
 - **Electronic Submissions:** A completed [Public Notice form](#). Documentation that notice of the application has been provided in accordance with N.J.A.C. 7:13-19 must be attached to the form (see below for details). Acceptable file formats include pdf, jpg, and png.
 - **Paper Submissions:** Documentation that notice of the application has been provided in accordance with N.J.A.C. 7:13-19 (see below for details).

Both electronic and paper submissions require documentation of public notice as follows:

i. Notice to municipal clerk (N.J.A.C. 7:13-19.3(a))

A copy of the entire application, as submitted to the Department, must be provided to the municipal clerk in each municipality in which the site is located. For electronic submissions, the application consists of a description of the project, the specific permit(s)/authorization(s) being sought, and all items that will be uploaded to the online service, including all required items on this checklist.

- Documentation of compliance with this requirement shall consist of a copy of the certified United States Postal Service white mailing receipt, or other written receipt, for each copy of the application sent.

ii. Notice to governmental entities and property owners (N.J.A.C. 7:13-19.3(b) and (c))

A brief description of the proposed project, a legible copy of the site plan, and the form notice letter described at N.J.A.C. 7:13-19.3(d)1iii must be sent to the following recipients:

- A. The construction official of each municipality in which the site is located;
- B. The environmental commission, or other government agency with similar responsibilities, of each municipality in which the site is located;
- C. The planning board of each municipality in which the site is located;
- D. The planning board of each county in which the site is located;
- E. The local Soil Conservation District if the regulated activity or project will disturb 5,000 square feet or more of land; and

F. Adjacent property owners:

If the application is for one of the following projects (listed at N.J.A.C. 7:13-19.3(c)1-6), notice shall be sent to all owners of real property, including easements, located within 200 feet of any proposed above-ground structure, except for any conveyance lines suspended above the ground or small utility support structures (e.g. telephone poles):

- A linear project of one-half mile or longer
- A public project on a site of 50 acres or more
- An industrial or commercial project on a site of 100 acres or more
- A project to remove sediment or debris from a channel of one-half mile or longer

For any other project, notice shall be sent to all owners of real property, including easements, located within 200 feet of the site of the proposed regulated activity.

The owners of real property, including easements, shall be those on a list that was certified by the municipality, with a date of certification no more than one year prior to the date the application is submitted.

- Documentation of compliance with this requirement shall consist of:
 - 1. A copy of the certified United States Postal Service white mailing receipt for each public notice that was mailed, or other written receipt;
 - 2. A certified list of all owners of real property, including easements, located within 200 feet of the property boundary of the site (including name, mailing address, lot, and block) prepared by the municipality for each municipality in which the project is located. The date of certification of the list shall be no earlier than one year prior to the date the application is submitted to the Department; and
 - 3. A copy of the form notice letter.
- The form notice letter required under N.J.A.C. 7:13-19.3(d)1iii shall read as follows:

"This letter is to provide you with legal notification that an application for an authorization under flood hazard area general permit 10 <<has been/will be>> submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation for the development shown on the enclosed plan(s). A brief description of the proposed project follows: <<INSERT DESCRIPTION OF THE PROPOSED PROJECT>>

The complete permit application package can be reviewed at either the municipal clerk's office in the municipality in which the site subject to the application is located, or by appointment at the Department's Trenton Office. The Department of Environmental Protection welcomes comments and any information that you may provide concerning the proposed development and site. Please submit your written comments within 15 calendar days of receiving this letter to:

New Jersey Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
Trenton, New Jersey 08625
Attn: (Municipality in which the property is located) Supervisor”

iii. Newspaper notice (N.J.A.C. 7:13-19.4)

Newspaper notice, in the form of a legal notice or display advertisement in the official newspaper of the municipality(ies) in which the project site is located, or if no official newspaper exists, in a newspaper with general circulation in the municipality(ies), is required for the following projects:

- A. A linear project of one-half mile or longer
- B. A public project on a site of 50 acres or more
- C. An industrial or commercial project on a site of 100 acres or more
- D. A project to remove sediment or debris from a channel of one-half mile or longer

If your project is not one listed above, newspaper notice is not required.

- Documentation of newspaper notice shall consist of:
 - 1. A copy of the published newspaper notice; and
 - 2. The date and name of the newspaper in which notice was published.
- The newspaper notice may be either a legal notice or display advertisement and must read as follows:

“Take notice that an application for a flood hazard area general permit 10<<has been/will be>> submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation for the development described below:

APPLICANT:

PROJECT NAME:

PROJECT DESCRIPTION:

PROJECT STREET ADDRESS:

BLOCK: LOT:

MUNICIPALITY: COUNTY:

The complete permit application package can be reviewed at either the municipal clerk’s office in the municipality in which the site subject to the application is located, or by appointment at the Department’s Trenton Office. The Department of Environmental Protection welcomes comments and any information that you may provide concerning the proposed development and site. Please submit your written comments within 15 calendar days of the date of this notice to :

New Jersey Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
501 East State Street
Trenton, New Jersey 08625
Attn: (Municipality in which the property is located) Supervisor”

iv. Notice for projects located in the Pinelands Area

For a project in the Pinelands Area as designated under the Pinelands Protection Act at N.J.S.A. 13:18A-11.a, documentation showing that a copy of the application form has been provided to the New Jersey Pinelands Commission. For electronic submissions, the “application form” will consist of a description of the project, including the lot, block, municipality, and county, and the specific permit(s)/authorization(s) being sought.

4. Application fees:

- **Electronic Submissions:** The appropriate application fee, as specified in N.J.A.C. 7:13-20.1, payable through the online service via credit card or e-check, or to receive a bill, select “Bill Me” on the payment screen. Bills will be sent to the Fee Billing Contact identified in the service and must be paid directly to the Department of Treasury.
- **Paper Submissions:** The appropriate application fee, as specified in N.J.A.C. 7:13-20.1, in the form of a check (personal, bank, certified, or attorney), money order, or government purchase order made payable to “Treasurer State of New Jersey.”

5. Site plans:

All site plans must include the scale of the site plans, a north arrow, the name of the person who prepared the plans, date the site plans were prepared, and the applicant’s name and the block, lot, and municipality in which the site is located. In addition, the site plans shall include the following information, both on and adjacent to the site, in accordance with N.J.A.C. 7:13-18.4(a)4:

i. Existing features:

- A. Lot lines and right-of-way lines;
- B. Bridge/culvert type (3-sided, 4-sided, box, pipe, etc.);
- C. Headwalls/wingwalls;
- D. Footings;
- E. An indication of the type of stream bottom beneath the bridge or culvert (natural, buried, riprap, concrete, etc.);
- F. Dimensions of the bridge or culvert including low chord;
- G. Road elevation;
- H. Bridge span and width;
- I. Width of road on either side of the bridge or culvert;
- J. Presence or absence of berms or curbing along the road;
- K. Cross-sections of the channel upstream, downstream, and through the bridge or culvert; and
- L. Vegetation.

ii. Proposed regulated activities:

- A. Changes in lot lines and right-of-way lines;
- B. Location of any construction easements;
- C. Bridge/culvert type;
- D. Headwalls/wingwalls;
- E. Footing depth;
- F. Restored channel dimensions;
- G. Proposed stream bottom material (natural, buried, riprap, concrete, etc.);

- H. Dimensions of the proposed bridge or culvert including low chord;
 - I. Road elevation;
 - J. Bridge span and width;
 - K. Width of road on either side of the bridge or culvert;
 - L. Presence or absence of berms or curbing along the road;
 - M. Cross-sections of the channel upstream, downstream, and through the bridge or culvert at the same locations as the cross-sections of the existing channel; and
 - N. Footprint of disturbance of riparian zone vegetation.
- iii. Topography:
- A. Existing and proposed topography. All topography must reference NGVD or include the appropriate conversion factor to NGVD.
- iv. Soil erosion and sediment control:
- A. Details of any proposed soil erosion and sediment control measures.
- v. Riparian zone:
- A. The location of any riparian zone onsite (see N.J.A.C. 7:13-4.1); and
 - B. A table depicting proposed disturbance to riparian zone vegetation.
- vi. Metes and bounds description:
- A. Not required for this general permit.
- vii. Flood hazard area/floodway information:
- A. A depiction of any flood hazard area and floodway limits shown on a Department delineation or FEMA flood insurance study, where such depictions exist (see N.J.A.C. 7:13-3); and
 - B. An indication of whether the project is located within the floodway of another regulated water and, if so, the floodway limit of that water.
- viii. Details of construction proposed in a regulated water:
- A. A thorough description of proposed construction methods;
 - B. A timetable for construction;
 - C. Details of any trenching, diversionary channels, temporary piping, and other disturbances to the regulated water; and
 - D. Proposed dewatering methods.
- **Electronic Submissions:** Acceptable file formats include pdf and zip. Site plans must be certified in accordance with N.J.A.C. 7:13-18.2(j) and prepared according to the Department's [site plan specifications](#) for electronic site plans. All plans must be digitally signed and sealed by a New Jersey licensed professional engineer, surveyor, or architect, as appropriate, pursuant to N.J.A.C. 13:40-7.2 through 7.4, with signatures and seals that meet the requirements of N.J.A.C. 13:40-8.1A. Site plans with electronic signatures, such as scans of site plans with a handwritten signature, will not be accepted.
 - **Paper Submissions:** Three sets of site plans, certified in accordance with N.J.A.C. 7:13-18.2(j). Prior to issuance of any permit, the Department will require four to five sets of final site plans. The site plans must be signed and sealed by a New Jersey licensed professional engineer, surveyor, or architect, as appropriate, pursuant to N.J.A.C. 13:40-7.2 through 7.4.

6. Photographs:

- i. Color photographs depicting:
 - A. The entire site; and

B. The locations of proposed activities.

- ii. A photo location map showing the location and direction from which each photograph was taken.

- **Electronic Submissions:** Acceptable file formats include pdf, doc, docx, jpg, zip, ppt, and pptx.
- **Paper Submissions:** One set of photographs mounted on 8½-inch by 11-inch paper. Copies of photographs are acceptable provided they are color copies. Black and white copies of photographs are not acceptable.

7. A compliance statement that includes the following:

- i. A written narrative explaining how each requirement of general permit 10 at N.J.A.C. 7:13-9.10 will be met by the proposed project;
- ii. A list of all limits and requirements at N.J.A.C. 7:13-6.7, Conditions applicable to a permit-by-rule or to an authorization pursuant to a general permit-by-certification or a general permit, that apply to the proposed project and an explanation of how the project complies with each requirement, including:
- A. A written narrative of avoidance and/or minimization of impacts to threatened or endangered wildlife or plant species habitat in and near the project area, as applicable; and
- iii. A description of the site characteristics and the location of the proposed project, potential impacts from the construction process, and, as applicable, any monitoring or reporting methods that will be used.
- **Electronic Submissions:** The required compliance statement should be uploaded under the attachment type "Environmental Report with Site Location Maps." Acceptable file formats include pdf, doc, docx, rtf, and zip.

8. Color copies of the following maps:

- i. The tax map for the property;
- ii. A copy of the portion of the county road map showing the property location; and
- iii. A copy of the USGS quad map(s) that includes the site, with the site clearly outlined to scale.
- **Electronic Submissions:** The required maps should be uploaded with the compliance statement under the attachment type "Environmental Report with Site Location Maps." Acceptable file formats include pdf, doc, docx, rtf, and zip.

9. Calculations and analyses:

- i. An engineering certification in accordance with N.J.A.C. 7:13-9.10(a)1, the contents of which are set forth in the definition of "engineering certification" at N.J.A.C. 7:13-1.2; and
- ii. If proposing hard armoring of the stream bed, signed and sealed scour calculations demonstrating that any proposed hard armoring of the stream bed, either beneath the bridge/culvert or upstream or downstream of the bridge/culvert, is necessary.

Any calculations or analyses submitted as part of an application must include the certification set forth at N.J.A.C. 7:13-18.2(j).

- **Electronic Submissions:** Engineering certifications and scour calculations must be digitally signed and sealed in accordance with N.J.A.C. 13:40-8.1A. Calculations and engineering certifications with electronic signatures, such as a scan of an engineering certification with a handwritten signature, will not be accepted. The system provides an attachment type for engineering certifications, which must be in pdf format. The scour calculations should be included with the compliance statement and uploaded under the attachment type "Environmental Report with Site Location Maps." If scour calculations are necessary, acceptable file formats for the compliance statement are limited to pdf and zip.

10. Natural Heritage Program Letter:

A copy of an NJDEP, Office of Natural Lands Management Natural Heritage Database data request response for endangered or threatened species of flora or fauna, including a Landscape Map report, if available

- **Electronic Submissions:** Acceptable file formats include pdf, jpg, and png.

11. Additional requirements:

- i. Highlands applicability determination (highlands exemption) – applies only if the project is located within the Highlands Preservation Area
 - **Electronic Submissions:** Acceptable file formats include pdf, jpg, and png.
- ii. Conservation restriction – applies only if the proposed project is subject to an existing conservation restriction
 - **Electronic Submissions:** Acceptable file formats include pdf, jpg, and png.

12. A computer disk containing a copy of the entire application (Paper submissions ONLY)

SECTION 2

1. Site Photographs of Existing Conditions
2. Existing Conditions Photograph Location Map



BOSWELL ENGINEERING

ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831



CLIENT NAME: Borough of Oakland	SITE LOCATION: Oakland, New Jersey	PROJECT NAME: Superstructure Replacement of the Patriots Way Bridge	PROJECT No.: OK-1713
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Photo No. 1.**Description:**

Northwestern view along
Patriot's Way.

**Photo No. 2.****Description:**

Southeastern view along
the walking trail
approaching Patriot's
Way Bridge.





CLIENT NAME:
Borough of Oakland

SITE LOCATION:
Oakland, New Jersey

PROJECT NAME:
Superstructure Replacement of the Patriots Way Bridge

PROJECT No.:
OK-1713

Photo No. 3.

Description:
Southeastern view of the western abutment.



Photo No. 4.

Description:
Northwestern view of the utility crossing under the sidewalk.





CLIENT NAME:
Borough of Oakland

SITE LOCATION:
Oakland, New Jersey

PROJECT NAME:
Superstructure Replacement of the Patriots Way Bridge

PROJECT No.:
OK-1713

Photo No. 5.

Description:

Close up view of the damage to the superstructure.



Photo No. 6.

Description:

Southern view of the utility crossings attached to the superstructure.





CLIENT NAME:
Borough of Oakland

SITE LOCATION:
Oakland, New Jersey

PROJECT NAME:
Superstructure Replacement of the Patriots Way Bridge

PROJECT No.:
OK-1713

Photo No. 7.

Description:
Southeastern view of the
utility crossings under
Patriot's Way Bridge.



Photo No. 8.

Description:
Southeastern view of the
utility crossings under
Patriot's Way Bridge.





CLIENT NAME: Borough of Oakland	SITE LOCATION: Oakland, New Jersey	PROJECT NAME: Superstructure Replacement of the Patriots Way Bridge	PROJECT No.: OK-1713
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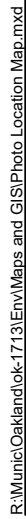
Photo No. 9.**Description:**

Northeastern view of the downstream face of the Patriot's Way Bridge.

**Photo No. 10.****Description:**

Southeastern view along Patriot's Way.





SECTION 3

1. **Compliance with Flood Hazard Control Act Rules**
(N.J.A.C. 7:13, last revised July 15, 2019)



BOSWELL ENGINEERING

ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831

Environmental Report

Pursuant to N.J.A.C. 7:13 we are providing this Environmental Report for the authorization of a Flood Hazard Area General Permit No. 10 for a bridge or culvert as per 7:13-9.10. Compliance with all applicable sub-sections relevant to the proposed project addressed below.

The Borough of Oakland is applying to the New Jersey Department of Environmental Protection (NJDEP) Division of Land Use Regulation for the proposed replacement of an existing superstructure along Patriots Way over the Ramapo River in the Borough of Oakland, Bergen County NJ. The purpose of this submission is to provide the Department with the necessary documentation required for an FHA General Permit No. 10.

The superstructure is in overall poor condition due to the acceleration of deterioration of the superstructure. The roadway is the primary access point to the Ramapo River Reserve development and is heavily traversed and utilized for emergency access. Due to the severity of the bridge's condition the project proposes the replacement of the existing superstructure.

The project's compliance with the rules that govern the Flood Hazard Area Control Act, last revised July 15, 2019 has been discussed in detail below. All required drawings, supporting documentation, etc. have been attached as part of the complete application package.

7:13-6.7 Conditions applicable to a permit-by-rule or to an authorization pursuant to a general permit-by-certification or a general permit

(b) The following conditions are incorporated by reference in each permit-by-rule, general permit-by-certification, or general permit:

1. *Any new, reconstructed, enlarged, or elevated structure within a flood hazard area shall be secured to resist flotation, collapse, and displacement due to hydrostatic and hydrodynamic forces from floodwaters;*

The superstructure has been designed to resist flotation, collapse, and displacement due to hydrostatic and hydrodynamic forces from floodwaters.

2. *The regulated activity shall not adversely affect low-flow aquatic passage in any regulated water;*

At no point during the course of the project will the flow of water from the regulated water be interrupted.

3. *The regulated activity shall not expose unset or raw cement to flowing water within any channel or regulated water during construction;*

Exposure of unset or raw cement to flowing water within the regulated channel will not occur during the course of the project.

4. *The regulated activity shall not destroy, jeopardize, or adversely modify a present or documented habitat for threatened or endangered species, and shall not jeopardize the continued existence of any local population of a threatened or endangered species;*

The Borough of Oakland will make every effort to minimize disturbances to the surrounding environment and will in no way destroyed, jeopardized, or adversely modified a present or documented habitat for threatened or endangered species.

5. *Except for normal property maintenance conducted in accordance with permit-by-rule 1 at N.J.A.C. 7:13-7.1 and forest management activities under permit-by-rule 26 at N.J.A.C. 7:13-7.26, all riparian zone vegetation that is cleared, cut, and/or removed to conduct a regulated activity, access an area where regulated activities will be conducted, or otherwise accommodate a regulated activity shall be replanted immediately after completion of the regulated activity, unless prevented by seasonal weather, in which case the vegetation shall be replanted as soon as conditions permit. Portions of the riparian zone occupied by an authorized structure need not be replanted. i. Except as provided in (b)5ii below, the vegetation replanted shall: (1) Consist of vegetation of equal or greater ecological function and value as the vegetation that was cleared, cut, or removed. For example, herbaceous vegetation may be replaced with the same type of vegetation or with trees, but the trees in forested areas must be replaced with trees of equal or greater density and ecological function and value; and (2) Consist of native, non-invasive vegetation, except in an actively disturbed area. In an actively disturbed area, the vegetation may be replaced with the same type of vegetation that was cleared, cut, or removed, or with another kind of vegetation typical of an actively disturbed area. For example, lawn grass may be replaced with garden plants or agricultural crops. ii. In cases where replanting in accordance with (b)5i above would interfere with continued access to or maintenance of a structure that is required by Federal, State, or local law, the vegetation replanted shall meet the requirements of (b)5i above to the extent feasible.*

Non-applicable. One tree will be removed for the completion of the proposed project; however, it is within 25 feet of the structure and will not be replanted due to the proximity to the structure.

- (c) *Except for normal property maintenance under permit-by-rule 1 at N.J.A.C. 7:13-7.1 and forest management activities under permit-by-rule 26 at N.J.A.C. 7:13-7.26, regulated activities authorized under a permit-by-rule, a general permit-by-certification, or a general permit, in combination with all proposed activities, shall not constitute a major development, as defined in the Stormwater Management rules at N.J.A.C. 7:8-1.2.*

The proposed project will result in 25,931 S.F. (0.595 acres) of disturbance and is therefore not classified as a major development as it is below the limit of one or more acres of disturbance or increasing impervious cover by one-quarter acre.

- (d) *The person undertaking a regulated activity under a permit-by-rule, or seeking authorization under a general permit-by-certification, is responsible for ensuring that each condition of the permit-by-rule or general permit-by-certification applicable under (a) above is met. The Department will not entertain a request to review engineering calculations, in the context of an applicability determination or otherwise, for the purpose of determining that a proposed activity will meet any condition of a permit-by-rule or general permit-by-certification.*

All parties involved in the project will be in compliance with the applicable sub-sections of N.J.A.C. 7:13 and perform the replacement activities in accordance with the attached plans.

- (e) *In addition to the conditions that apply to every authorization pursuant to a general permit under (a) above, the Department shall establish conditions in a specific authorization pursuant to a general permit, on a case-by-case basis, as required to ensure the authorized regulated activity meets all applicable requirements of this chapter and its enabling statutes.*

Compliance with N.J.A.C. 7:13-9.10 has been discussed below.

7:13-9.10 General permit 10 - Reconstruction of a bridge or culvert across a regulated water with a drainage area of 50 acres or more

- (a) *General permit 10 authorizes the reconstruction of one existing bridge or culvert that crosses a regulated water that has a drainage area of 50 acres or more, provided the conditions at N.J.A.C. 7:13-6.7 are met and:*

1. *The applicant provides an engineering certification confirming that the proposed bridge or culvert is designed to not increase the frequency or depth of offsite flooding during any flood event described in N.J.A.C. 7:13-12.1(i);*

The replacement of the superstructure will not result in an increase in flow and will therefore not increase the frequency or depth of offsite flooding during any flood events. An engineering certification accompanies this permit application.

2. *In order to ensure that the hydraulic capacity of the reconstructed bridge or culvert is substantially equivalent to the hydraulic capacity of the existing bridge or culvert, all the following are met:*

- i. *The cross-sectional area of the new structure is at least equal to, and not more than five percent greater than, the cross-sectional area of the existing structure;*

The existing superstructure is being replaced but will not change in size, therefore, the cross-sectional area of the replacement structure will remain the same.

- ii. *The width-to-height ratio of the new structure does not deviate by more than 10 percent from the width-to-height ratio of the existing structure;*

The replacement superstructure will not deviate from the width-to-height ratio as it will be reconstructed to maintain its size.

- iii. *The length of the new structure does not deviate by more than 10 feet from the length of the existing structure or more than 10 percent of the length of the existing structure, whichever is greater;*

The replacement superstructure will be the same length as the existing structure.

- iv. *The orientation of any new abutments and headwalls is aligned as closely as feasible to the orientation of the existing abutments and headwalls; and*

Non-applicable. The proposed project does not include the replacement of any abutments and headwalls.

- v. *The elevation of the crown of the roadway profile above the bridge or culvert is not altered within the flood hazard area;*

The deck of the superstructure is above the flood hazard elevation.

3. *The bridge or culvert is designed to remain stable, scour resistant, and resistant to displacement and/or damage. At a minimum, each bridge shall have stable abutments, each culvert shall have stable headwalls, and each abutment and headwall shall have footings that extend no less than three feet below the invert of the channel;*

The existing abutments will remain in place, no alteration or reconstruction if planned and therefore the current abutments will remain scour resistant and stable.

4. *The bridge or culvert is designed to avoid any adverse impacts to aquatic, semi-aquatic, and terrestrial resources. Where possible, a stable, natural, earthen channel with low-flow aquatic passage shall be preserved and/or provided within the bridge or culvert as well as any section of channel disturbed to accommodate its construction;*

The replacement will not have any adverse impacts to aquatic, semi-aquatic, and terrestrial resources.

5. *No armoring is placed under or across the channel bed, unless such armoring is necessary to prevent scour along the proposed abutments or footings. In such a case, the armoring shall be buried beneath at least two feet of native substrate, where feasible;*

Non-applicable. The proposed project does not include the use of armoring as it exclusively includes the replacement of the superstructure.

6. *Any temporarily disturbed sections of the channel are restored to pre-construction conditions immediately after completion of the disturbance. Characteristics that shall be replicated include channel shape, width, and meandering, ratio of shallow areas to deep areas, anticipated flow rate, and velocity and substrate type;*

Non-applicable. There will be no disturbances beyond the top of bank for the replacement of the superstructure.

7. *No riparian zone vegetation is cleared, cut, and/or removed, except for vegetation within 20 feet of the bridge or culvert, where such disturbance is necessary to facilitate its reconstruction; and*

To facilitate construction, the project proposes the removal of one tree for the replacement of the superstructure which is approximately 8 feet from the structure.

8. *The timing restrictions set forth at N.J.A.C. 7:13-11.5(d) are observed.*

All activities in relation to this project will be performed in observance of all timing restrictions set forth at N.J.A.C. 7:13-11.5(d).

The compliance measures taken in planning the above referenced project indicate that the Borough has met all of the necessary NJDEP requirements for the proposed rehabilitation activities. In the absence of any prudent alternatives, we respectfully request that the Department grant a Flood Hazard Area General Permit No. 10.

Engineering Certification

December 8, 2020

NJDEP Flood Hazard Area General Permit No. 10

Superstructure Replacement of Patriots Way Bridge Over Ramapo River

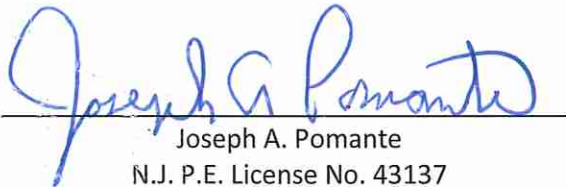
Borough of Oakland

Bergen County, New Jersey

Our File No. OK-1713

To whom it may concern:

In accordance with NJAC 7:13-9.10 (a)1, this letter shall serve to certify the above referenced superstructure replacement has been designed within the limits of a Flood Hazard Area General Permit No. 10 and will not increase the frequency or depth of offsite flooding during the following storm events as outlined under NJAC 7:13-12.1(i): 1. flood hazard area design flood; 2. 100-year flood; 3. 50-year flood; 4. 25-year flood; 5. 10-year flood; and 6. two-year flood.



Joseph A. Pomante
N.J. P.E. License No. 43137



Boswell Engineering
330 Philips Avenue
South Hackensack, NJ 07606

SECTION 4

1. Natural Heritage Database Results
2. New Jersey and National Register of Historic Places



BOSWELL ENGINEERING

ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831



State of New Jersey

MAIL CODE 501-04

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF PARKS & FORESTRY

NEW JERSEY FOREST SERVICE

OFFICE OF NATURAL LANDS MANAGEMENT

P.O. BOX 420

TRENTON, NJ 08625-0420

Tel. (609) 984-1339 Fax (609) 984-0427

PHILIP D. MURPHY

Governor

SHEILA Y. OLIVER

Lt. Governor

CATHERINE R. McCABE

Commissioner

November 30, 2020

Elizabeth De Smet
Boswell Engineering
330 Phillips Avenue
South Hackensack, NJ 07606

Re: Patriots Way Bridge over the Ramapo River
Block(s) - 1104, Lot(s) - 1
Oakland Borough, Bergen County

Dear Ms. De Smet:

Thank you for your data request regarding rare species information for the above referenced project site.

Searches of the Natural Heritage Database and the Landscape Project (Version 3.3) are based on a representation of the boundaries of your project site in our Geographic Information System (GIS). We make every effort to accurately transfer your project bounds from the topographic map(s) submitted with the Natural Heritage Data Request Form into our Geographic Information System. We do not typically verify that your project bounds are accurate, or check them against other sources.

We have checked the Landscape Project habitat mapping and the Biotics Database for occurrences of any rare wildlife species or wildlife habitat on the referenced site. The Natural Heritage Database was searched for occurrences of rare plant species or ecological communities that may be on the project site. Please refer to Table 1 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented on site. A detailed report is provided for each category coded as 'Yes' in Table 1.

We have also checked the Landscape Project habitat mapping and Biotics Database for occurrences of rare wildlife species or wildlife habitat in the immediate vicinity (within ¼ mile) of the referenced site. Additionally, the Natural Heritage Database was checked for occurrences of rare plant species or ecological communities within ¼ mile of the site. Please refer to Table 2 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented within the immediate vicinity of the site. Detailed reports are provided for all categories coded as 'Yes' in Table 2. These reports may include species that have also been documented on the project site.

We have also checked the Landscape Project habitat mapping and Biotics Database for all occurrences of rare wildlife species or wildlife habitat within one mile of the referenced site. Please refer to Table 3 (attached) to determine if any rare wildlife species or wildlife habitat is documented within one mile of the project site. Detailed reports are provided for each category coded as 'Yes' in Table 3. These reports may include species that have also been documented on the project site.

For requests submitted in order to make a riparian zone width determination as part of a Flood Hazard Area Control Act (FHACA) rule application, we report records for all rare plant species and ecological communities tracked by the Natural Heritage Program that may be on, or in the immediate vicinity of, your project site. A subset of these plant species are also covered by the FHACA rules when the records are located within one mile of the project site. One mile searches for FHACA plant species will only report precisely located occurrences for those wetland plant species identified under the FHACA regulations as being critically dependent on the watercourse. Please refer to Table 3 (attached) to determine if any precisely located rare wetland plant species covered by the FHACA rules have been documented. Detailed reports are

provided for each category coded as 'Yes' in Table 3. These reports may include species that have also been documented on, or in the immediate vicinity of, the project site.

The Natural Heritage Program reviews its data periodically to identify priority sites for natural diversity in the State. Included as priority sites are some of the State's best habitats for rare and endangered species and ecological communities. Please refer to Tables 1, 2 and 3 (attached) to determine if any priority sites are located on, in the immediate vicinity, or within one mile of the project site.

A list of rare plant species and ecological communities that have been documented from the county (or counties), referenced above, can be downloaded from <http://www.state.nj.us/dep/parksandforests/natural/heritage/countylist.html>. If suitable habitat is present at the project site, the species in that list have potential to be present.

Status and rank codes used in the tables and lists are defined in EXPLANATION OF CODES USED IN NATURAL HERITAGE REPORTS, which can be downloaded from http://www.state.nj.us/dep/parksandforests/natural/heritage/nhpcodes_2010.pdf.

Beginning May 9, 2017, the Natural Heritage Program reports for wildlife species will utilize data from Landscape Project Version 3.3. If you have questions concerning the wildlife records or wildlife species mentioned in this response, we recommend that you visit the interactive web application at the following URL, <https://njdep.maps.arcgis.com/apps/webappviewer/index.html?id=0e6a44098c524ed99bf739953cb4d4c7>, or contact the Division of Fish and Wildlife, Endangered and Nongame Species Program at (609) 292-9400.

For additional information regarding any Federally listed plant or animal species, please contact the U.S. Fish & Wildlife Service, New Jersey Field Office at <http://www.fws.gov/northeast/njfieldoffice/endangered/consultation.html>.

PLEASE SEE 'CAUTIONS AND RESTRICTIONS ON NHP DATA', which can be downloaded from <http://www.state.nj.us/dep/parksandforests/natural/heritage/newcaution2008.pdf>.

Thank you for consulting the Natural Heritage Program. The attached invoice details the payment due for processing this data request. Feel free to contact us again regarding any future data requests.

Sincerely,



Robert J. Cartica
Administrator

c: NHP File No. 20-4107412-20473

Table 1: On Site Data Request Search Results (6 Possible Reports)

<u>Report Name</u>	<u>Included</u>	<u>Number of Pages</u>
1. Possibly on Project Site Based on Search of Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database	No	0 pages included
2. Natural Heritage Priority Sites On Site	No	0 pages included
3. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	Yes	1 page(s) included
4. Vernal Pool Habitat on the Project Site Based on Search of Landscape Project 3.3	No	0 pages included
5. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	Yes	1 page(s) included
6. Other Animal Species On the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	Yes	1 page(s) included

Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.3 Species Based Patches
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Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
<i>Aves</i>								
	Bald Eagle	Haliaeetus leucocephalus	Foraging	4	NA	State	G5	S1B,S2N
	Brown Thrasher	Toxostoma rufum	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Great Blue Heron	Ardea herodias	Foraging	2	NA	Special Concern	G5	S3B,S4N
	Wood Thrush	Hylocichla mustelina	Breeding Sighting	2	NA	Special Concern	G4	S3B,S4N
<i>Insecta</i>								
	Arrowhead Spiketail	Cordulegaster obliqua	Territorial Display	2	NA	Special Concern	G4	S3
<i>Mammalia</i>								
	Northern Myotis	Myotis septentrionalis	Active Season Sighting	5	Federally Listed Threatened	NA	G1G2	S1

Rare Wildlife Species or Wildlife Habitat On the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File
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Link ID	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank	Last Observed	Count
138502	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4

Total number of records: 1

Other Animal Species On the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program

Scientific Name	Common Name	Federal Protection Status	State Protection Status	Grank	Srank
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Invertebrate Animals

Polites mystic	Long Dash			G5	S3?
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Total number of records: 1

Table 2: Vicinity Data Request Search Results (6 possible reports)

<u>Report Name</u>	<u>Included</u>	<u>Number of Pages</u>
1. Immediate Vicinity of the Project Site Based on Search of Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database	No	0 pages included
2. Natural Heritage Priority Sites within the Immediate Vicinity	No	0 pages included
3. Rare Wildlife Species or Wildlife Habitat Within the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	Yes	2 page(s) included
4. Vernal Pool Habitat In the Immediate Vicinity of Project Site Based on Search of Landscape Project 3.3	Yes	1 page(s) included
5. Rare Wildlife Species or Wildlife Habitat In the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	Yes	1 page(s) included
6. Other Animal Species In the Immediate Vicinity of the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	Yes	1 page(s) included

Rare Wildlife Species or Wildlife Habitat Within the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Strank
<i>Aves</i>								
	Bald Eagle	Haliaeetus leucocephalus	Foraging	4	NA	State Endangered	G5	S1B,S2N
	Barred Owl	Strix varia	Breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Barred Owl	Strix varia	Non-breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Brown Thrasher	Toxostoma rufum	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Cooper's Hawk	Accipiter cooperii	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Great Blue Heron	Ardea herodias	Foraging	2	NA	Special Concern	G5	S3B,S4N
	Hooded Warbler	Wilsonia citrina	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Red-shouldered Hawk	Buteo lineatus	Breeding Sighting	4	NA	State Endangered	G5	S1B,S3N
	Veery	Catharus fuscescens	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Wood Thrush	Hylocichla mustelina	Breeding Sighting	2	NA	Special Concern	G4	S3B,S4N
	Worm-eating Warbler	Helminthos vermivorum	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
<i>Insecta</i>								
	Arrowhead Spiketail	Cordulegaster obliqua	Territorial Display	2	NA	Special Concern	G4	S3
	Brush-tipped Emerald	Somatochlora walshii	Foraging	2	NA	Special Concern	G5	S3

Rare Wildlife Species or Wildlife Habitat Within the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
<i>Mammalia</i>	Gray Petaltail	Tachopteryx thoreyi	Occupied Habitat	4	NA	State Endangered	G4	S1
	Sable Clubtail	Gomphus rogersi	Foraging	2	NA	Special Concern	G4	S3
	Bobcat	Lynx rufus	Live Individual Sighting	4	NA	State Endangered	G5	S2
	Bobcat	Lynx rufus	Physical evidence	4	NA	State Endangered	G5	S2
<i>Reptilia</i>	Northern Myotis	Myotis septentrionalis	Active Season Sighting	5	Federally Listed Threatened	NA	G1G2	S1
	Eastern Box Turtle	Terrapene carolina carolina	Occupied Habitat	2	NA	Special Concern	G5T5	S3
	Northern Copperhead	Agkistrodon contortrix mokasen	Occupied Habitat	2	NA	Special Concern	G5T5	S3
	Timber Rattlesnake	Crotalus horridus horridus	Occupied Habitat	4	NA	State Endangered	G4T4	S1
	Wood Turtle	Glyptemys insculpta	Occupied Habitat	3	NA	State Threatened	G3	S2

**Vernal Pool Habitat
In the Immediate Vicinity of
Project Site Based on Search of
Landscape Project 3.3**

Vernal Pool Habitat Type

Vernal Pool Habitat ID

Vernal habitat area

3097

Total number of records: 1

**Rare Wildlife Species or Wildlife Habitat
In the Immediate Vicinity of the
Project Site Based on Search of
Landscape Project 3.3 Stream Habitat File**

Link ID	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank	Last Observed	Count
132580	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4
133429	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4
138502	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4

Total number of records: 3

**Other Animal Species
In the Immediate Vicinity of the Project Site Based on
Additional Species Tracked by
Endangered and Nongame Species Program**

Scientific Name	Common Name	Federal Protection Status	State Protection Status	Grank	Srank
<i>Invertebrate Animals</i>					
Polites mystic	Long Dash			G5	S3?
Total number of records: 1					

***Table 3: Within 1 Mile for Riparian Zone Width Determination
(6 possible reports)***

<u>Report Name</u>	<u>Included</u>	<u>Number of Pages</u>
1. Rare Plant Species Occurrences for Riparian Zone Width Determination (Flood Hazard Area Control Act Rule Application) - Within One Mile of the Project Site Based on Search of Natural Heritage Database	No	0 pages included
2. Natural Heritage Priority Sites for Riparian Zone Width Determination - Within One Mile of the Project Site	No	0 pages included
3. Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination - Within One Mile of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	Yes	3 page(s) included
4. Vernal Pool Habitat for Riparian Zone Width Determination - Within One Mile of the Project Site Based on Search of Landscape Project 3.3	Yes	1 page(s) included
5. Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination - Within One Mile of the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	Yes	2 page(s) included
6. Other Animal Species for Riparian Zone Width Determination - Within One Mile of the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	Yes	1 page(s) included

Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination Within One Mile of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches
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Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
Aves								
	Bald Eagle	Haliaeetus leucocephalus	Foraging	4	NA	State Endangered	G5	S1B,S2N
	Barred Owl	Strix varia	Breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Barred Owl	Strix varia	Non-breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Brown Thrasher	Toxostoma rufum	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Cooper's Hawk	Accipiter cooperii	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Great Blue Heron	Ardea herodias	Foraging	2	NA	Special Concern	G5	S3B,S4N
	Hooded Warbler	Wilsonia citrina	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Red-shouldered Hawk	Buteo lineatus	Breeding Sighting	4	NA	State Endangered	G5	S1B,S3N
	Veery	Catharus fuscescens	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Wood Thrush	Hylocichla mustelina	Breeding Sighting	2	NA	Special Concern	G4	S3B,S4N
	Worm-eating Warbler	Helminthophila vermivorum	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N

Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination Within One Mile of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
<i>Insecta</i>								
	Arrowhead Spiketail	Cordulegaster obliqua	Territorial Display	2	NA	Special Concern	G4	S3
	Brush-tipped Emerald	Somatochlora walshii	Foraging	2	NA	Special Concern	G5	S3
	Gray Petaltail	Tachopteryx thoreyi	Occupied Habitat	4	NA	State Endangered	G4	S1
	Sable Clubtail	Gomphus rogersi	Foraging	2	NA	Special Concern	G4	S3
	Tiger Spiketail	Cordulegaster erronea	Occupied Habitat	2	NA	Special Concern	G4	S3
	Tiger Spiketail	Cordulegaster erronea	Territorial Display	2	NA	Special Concern	G4	S3
<i>Mammalia</i>								
	Bobcat	Lynx rufus	Live Individual Sighting	4	NA	State Endangered	G5	S2
	Bobcat	Lynx rufus	Physical evidence	4	NA	State Endangered	G5	S2
	Northern Myotis	Myotis septentrionalis	Active Season Sighting	5	Federally Listed Threatened	NA	G1G2	S1
<i>Reptilia</i>								

Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination Within One Mile of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches
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Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
	Eastern Box Turtle	Terrapene carolina carolina	Occupied Habitat	2	NA	Special Concern	G5T5	S3
	Northern Copperhead	Agkistrodon contortrix mokasen	Occupied Habitat	2	NA	Special Concern	G5T5	S3
	Timber Rattlesnake	Crotalus horridus horridus	Occupied Habitat	4	NA	State Endangered	G4T4	S1
	Wood Turtle	Glyptemys insculpta	Occupied Habitat	3	NA	State Threatened	G3	S2

Vernal Pool Habitat for Riparian Zone Width Determination Within One Mile of the Project Site Based on Search of Landscape Project 3.3
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Vernal Pool Habitat Type	Vernal Pool Habitat ID
Vernal habitat area	3097
Potential vernal habitat area	2311
Potential vernal habitat area	2342
Total number of records:	3

**Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination
Within One Mile of the Project Site
Based on Search of Landscape Project 3.3 Stream Habitat File**

Link ID	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank	Last Observed	Count
126047	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4
126250	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4
126266	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4
126488	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4
126728	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4
128239	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4
129991	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4
130107	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4
132580	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4

**Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination
Within One Mile of the Project Site
Based on Search of Landscape Project 3.3 Stream Habitat File**

Link ID	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank	Last Observed	Count
133429	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4
134080	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4
137813	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4
138502	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4
157068	Eastern Lampmussel	Lampsilis radiata	Occupied Habitat	3	NA	State Threatened	G5	S2	2014	4
126047	Triangle Floater	Alasmidonta undulata	Occupied Habitat	3	NA	State Threatened	G4	S2	1992	1

Total number of records: 15

Other Animal Species for Riparian Zone Width Determination
Within One Mile of the Project Site
Based on Additional Species Tracked by
Endangered and Nongame Species Program

Scientific Name	Common Name	Federal Protection Status	State Protection Status	Grank	Srank
<i>Invertebrate Animals</i>					
Polites mystic	Long Dash			G5	S3?
Total number of records: 1					



Jersey City Waterworks Historic District (ID#3915)

Boonton to Jersey City - Reservoirs and pipelines

SHPO Opinion: 4/2/2013

(2013 Opinion Further expands HD to include Split Rock Reservoir and Dam. Previous SHPO Opinions: 5/15/1998 (For Boonton reservoir complex only); 2/20/2003: Expands HD to include Jersey City reservoirs and pipeline and other undefined elements;)

See Main Entry / Filed Location:

HUDSON County, Jersey City

NJ Route 7 Bridge (SI&A #0208150) (ID#2958)

NJ Route 7 over Passaic River

SHPO Opinion: 7/13/1993

(Demolished)

Also located in:

ESSEX County, Belleville Township

HUDSON County, Kearny Town

Schuyler Copper Mines (ID#588)

Between Schuyler and Porete Avenues

SHPO Opinion: 4/2/1984

(BER GB 5 v40, HSI#0239-009 (Archaeo./Historic Site form). Inset map shows between Renner Place and Morton Place (as Allston Place) north-to-south.)

Northvale Borough

Abraham Haring House (ID#3646)

416 Tappan Road

SHPO Opinion: 8/7/1986

(Bergen County Stone House Survey (repro. in ID#11513): "materially altered to the extent that its historic integrity has been excessively compromised; therefore, it is not nominated to the National Register of Historic Place[s].")

Haring-Blauvelt House (ID#589)

454 Tappan Road

NR: 1/10/1983 (NR Reference #: 83001511)

SR: 10/3/1980

(#105-Thematic Nomination of Early Stone Houses of Bergen County)

Norwood Borough

Captain Thomas Blanch House (ID#590)

130 Tappan Road

NR: 1/10/1983 (NR Reference #: 83001470)

SR: 10/3/1980

(#106 - Thematic Nomination of Early Stone Houses of Bergen County; Destroyed by fire May 26, 1997)

Blauvelt House (ID#591)

54 Tappan Road

NR: 1/10/1983 (NR Reference #: 83001474)

SR: 10/3/1980

(#107 - Thematic Nomination of Early Stone Houses of Bergen County)

Church of the Holy Communion (ID#592)

Summit Avenue

NR: 6/23/1988 (NR Reference #: 88000928)

SR: 5/1/1988

Ferdon House (ID#593)

366 Fourteenth Street

NR: 1/10/1983 (NR Reference #: 83001505)

SR: 10/3/1980

(#109 - Thematic Nomination of Early Stone Houses of Bergen County)

Haring-Vervalen House (ID#594)

200 Tappan Road

NR: 1/10/1983 (NR Reference #: 83001517)

SR: 10/3/1980

(#108 - Thematic Nomination of Early Stone Houses of Bergen County, demolished between 2012-2015.)

Presbyterian Church of Norwood (ID#4266)

701 Broadway

NR: 2/1/2006 (NR Reference #: 05001567)

SR: 12/7/2005

COE: 4/20/2004

Oakland Borough

Bogert-Wilkens Factories Sites (ID#595)

SHPO Opinion: 12/26/1990

Caille Lake Dam Site (ID#596)

SHPO Opinion: 6/25/1980

Abraham Demarest House (ID#597)

213 Ramapo Valley Road

NR: 1/10/1983 (NR Reference #: 83001491)

SR: 10/3/1980

(#113 - Thematic Nomination of Early Stone Houses of Bergen County)

Jacobus Demarest House (ID#599)

3 Dogwood Drive

NR: 1/10/1983 (NR Reference #: 83001493)

SR: 10/3/1980

(#112 - Thematic Nomination of Early Stone Houses of Bergen County)

Demarest-Hopper House (ID#598)

21 Breakneck Road

NR: 1/10/1983 (NR Reference #: 83001490)

SR: 10/3/1980

(#114 - Thematic Nomination of Early Stone Houses of Bergen County)

Doty Road Bridge (SI&A #020042A) (ID#600)

Doty Road over Ramapo River

SHPO Opinion: 2/16/1990

(Demolished; new bridge to east.)



Mill Dam Remains (ID#601)

SHPO Opinion: 6/25/1980

Salwen Prehistoric Site (28-Be-180) (ID#602)

SHPO Opinion: 12/26/1990

Sandy Beach Recreation Facility (ID#603)

SHPO Opinion: 12/26/1990

Van Allen House (ID#604)

Northeast corner of US Route 202 and Franklin Avenue

NR: 7/24/1973 (NR Reference #: 73001080)

SR: 6/13/1973

(a.k.a. Hendrick Van Aulen House #110 - Thematic
Nomination of Early Stone Houses of Bergen County)

Van Winkle-Fox House (ID#605)

669 Ramapo Valley Road

NR: 1/10/1983 (NR Reference #: 83001578)

SR: 10/3/1980

(#111 - Thematic Nomination of Early Stone Houses of
Bergen County)

Vygeberg Farm Office Building (ID#4261)

3 Franklin Avenue

COE: 9/18/2001

(Older COE Chrono #G1997-036 clarified that this was also
individually eligible and therefore a contributing feature of the
Van Allen House)

Old Tappan Borough

Frederick Haring House (ID#606)

Old Tappan Road at DeWolf Road

NR: 1/10/1983 (NR Reference #: 83001513)

SR: 10/3/1980

(#117- Thematic Nomination of Early Stone Houses of Bergen
County)

Gerrit Haring House (ID#607)

224 Old Tappan Road

NR: 1/10/1983 (NR Reference #: 83001514)

SR: 10/3/1980

(#116 - Thematic Nomination of Early Stone Houses of
Bergen County)

Teunis Haring House (ID#608)

70 Old Tappan Road

NR: 4/20/1979 (NR Reference #: 79001473)

SR: 7/12/1978

(#118 - Thematic Nomination of Early Stone Houses of
Bergen County)

Haring-DeWolf House (ID#609)

95 DeWolf Road

NR: 1/10/1983 (NR Reference #: 83001512)

SR: 10/3/1980

(#115 - Thematic Nomination of Early Stone Houses of
Bergen County)

Oradell Borough

Atwood-Blauvelt Mansion (ID#4932)

699 Kinderkamack Road

COE: 4/26/2016

(a.k.a. "Bluefield")

Thunise-Richard Cooper House (ID#610)

608-610 Brookside Avenue

NR: 9/12/1985 (NR Reference #: 85002182)

SR: 7/29/1985

SHPO Opinion: 6/29/1982

Demarest House (ID#611)

268 Grove Street

NR: 1/10/1983 (NR Reference #: 83001496)

SR: 10/3/1980

(#119 - Thematic Nomination of Early Stone Houses of
Bergen County)

Elm Street Bridge (SI&A #020044B) (ID#4082)

Elm Street over Hackensack River

COE: 9/4/2002

New Milford Plant of the Hackensack Water Company (ID#1922)

Van Buskirk Island

NR: 8/22/2001 (NR Reference #: 01000891)

SR: 6/21/2001

SHPO Opinion: 9/17/1991

COE: 9/16/1996

(SHPO opinion included a portion of New Milford Borough.
BER GB 5 v45 (ID#11517) and misc. materials in file
reference an eligible district, but no SHPO Opinion, etc. for HD
located.)

Also located in:

BERGEN County, New Milford Borough

Oradell Borough Hall (ID#612)

355 Kinderkamack Road

SHPO Opinion: 11/25/1981

Oradell Railroad Station (ID#613)

400 Maple Avenue

NR: 6/22/1984 (NR Reference #: 84002575)

SR: 3/17/1984

(Thematic Nomination of Operating Passenger Railroad
Stations [ID#5080])

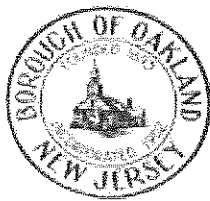
SECTION 5

1. **Certified List of Property Owners within 200'**
2. **Responsible Public Bodies**
3. **Sample Notice Letter**
4. **Certified Mail Receipts**



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ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831



Buffer Report

BOROUGH OF OAKLAND
 Office of the Assessor
 One Municipal Plaza
 Oakland, New Jersey 07436
 Telephone: (201) 337-8111 ext 207/208
 Facsimile: (201) 337-1520

Highlighted feature(s)

Subject Property (1)

Block	Lot	Qualifier	Owner	Location	Street	City State Zip
1101	1		FLAHERTY, PATRICK & LYNNE WIERMAN	9 OVERLOOK RDG	9 OVERLOOK RIDGE	OAKLAND, NJ 07436

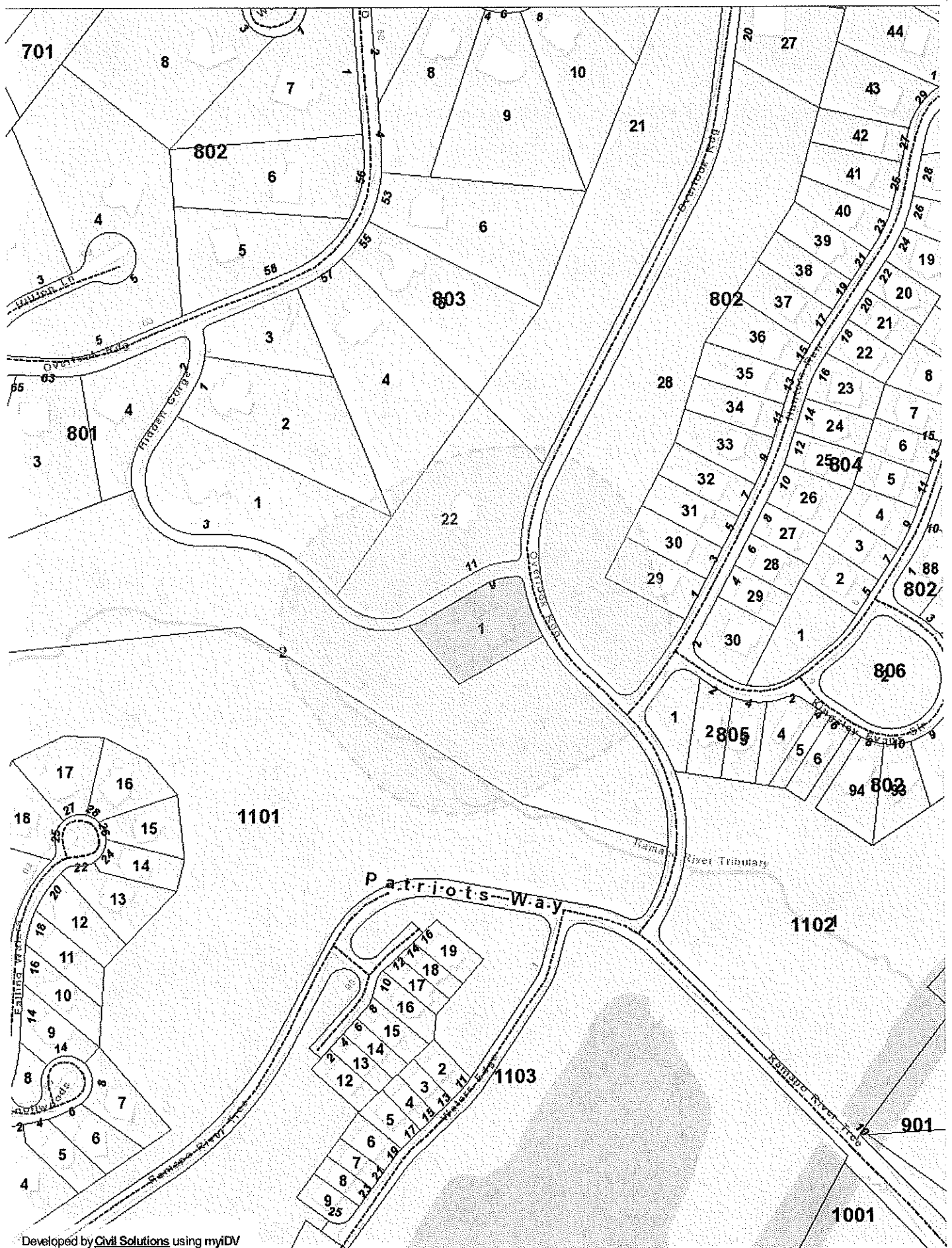
§

List of adjoining feature(s) that intersect 200 foot buffer from Subject Property.

Adjoining Properties (12)

Block	Lot	Qualifier	Owner	Location	Street	City State Zip
802	28		RAMAPO RIVER RES.HOMEOWNERS ASSN.	RAMAPO RIVER RESERVE	9 KINGSLEY EVANS CIRCLE	OAKLAND NJ 07436
802	29		TOULOUGHIAN, LEON & ALMA	1 HUNTERS RUN	1 HUNTERS RUN	OAKLAND NJ 07436
802	30		RAO, ANDUKURI RAVI & LAKSHMI GOTETI	3 HUNTERS RUN	3 HUNTERS RUN	OAKLAND NJ 07436
803	1		GISONNA, ANDREW & JEANNETTE SEIJAS	3 HIDDEN GORGE	3 HIDDEN GORGE	OAKLAND, NJ 07436
803	2		TAN, KUANG-CHI & GERALDINE MEI-JIH	1 HIDDEN GORGE	1 HIDDEN GORGE	OAKLAND, NJ 07436
803	4		KRISHNAN, PRAKASH ETAL	57 OVERLOOK RDG	57 OVERLOOK RIDGE	OAKLAND, NJ 07436
803	21		RAMAPO RIVER RES.HOMEOWNERS ASSN.	RAMAPO RIVER RESERVE	9 KINGSLEY EVANS CIRCLE	OAKLAND NJ 07436
803	22		GINZBERG, MIKHAIL & INNA	11 OVERLOOK RDG	11 OVERLOOK RDG	OAKLAND, NJ 07436
805	1		RAMAPO RIVER RES.HOMEOWNERS ASSN.	RAMAPO RIVER RESERVE	9 KINGSLEY EVANS CIRCLE	OAKLAND NJ 07436
1101	1		FLAHERTY, PATRICK & LYNNE WIERMAN	9 OVERLOOK RDG	9 OVERLOOK RIDGE	OAKLAND, NJ 07436
1101	2		RAMAPO RIVER RES.HOMEOWNERS ASSN.	RAMAPO RIVER RESERVE	9 KINGSLEY EVANS CIRCLE	OAKLAND NJ 07436
1101	3		RAMAPO RIVER RES.HOMEOWNERS ASSN.	RAMAPO RIVER RESERVE	9 KINGSLEY EVANS CIRCLE	OAKLAND NJ 07436

Buffer Report - Map
BOROUGH OF OAKLAND



RESPONSIBLE PUBLIC BODIES

**Proposed Outfall Improvements
Superstructure Replacement
Patriots Way over the Ramapo River
Block 1101, Lot 1
Borough of Oakland
Bergen County, New Jersey
Our File No. OK-1713**

Ms. Lisa M. Duncan
Borough Clerk
Borough of Oakland
One Municipal Plaza
Oakland, NJ 07436-1827

Mr. John Wittekind
Construction Official
Borough of Oakland
One Municipal Plaza
Oakland, NJ 07436-1827

Ms. Alison Fleeson, Chairman
Environmental Commission
Borough of Oakland
One Municipal Plaza
Oakland, NJ 07436-1827

Mr. Thomas Potash
Chairman Planning Board
Borough of Oakland
One Municipal Plaza
Oakland, NJ 07436-1827

Mr. Joseph Valente
Chairperson
Bergen County Planning Board
County of Bergen
One Bergen County Plaza, Room 122
Glen Rock, NJ 07452-2100-7076

Mr. Angelo Caruso, District Manager
Bergen County Soil Conservation District
700 Kinderkamack Road, Suite 106
Oradell, NJ 07649



VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

December 16, 2020

Leon & Alma Touloughlan
(or current property owner)
1 Hunters Run
Oakland, NJ 07436
Block 802, Lot 29

Re: Legal Notification
NJDEP Flood Hazard Area General Permit No. 10
and NJDEP Freshwater Wetlands General Permit No. 1
Superstructure Replacement of
Patriots Way Bridge over Ramapo River
Block 1101, Lot 1
Borough of Oakland
Bergen County, New Jersey
Our File No. OK-1713

To Whom It May Concern:

This letter provides you with legal notification that Boswell Engineering (Boswell), on behalf of the Borough of Oakland, is applying to the New Jersey Department of Environmental Protection, Bureau of Land Use Regulation, for a Flood Hazard Area General Permit No. and a NJDEP Freshwater Wetlands General Permit No. 1 for the above reference project shown on the enclosed plan(s).

A brief description of the proposed project follows:

The Borough of Oakland is proposing to replace the entire superstructure of the Patriots Way Bridge over the Ramapo River. The superstructure is being replaced due to its deteriorated condition. The proposed superstructure will not be widened or lengthened.

The complete permit application package can be reviewed at the municipal clerk's office in the municipality in which the site subject to the application is located, or by appointment at the Department's Trenton Office. In addition, an electronic copy of the initial application can be provided via an OPRA request by contacting <https://www.nj.gov/dep/opra/opraform.html> from the Department's Trenton Office. The Department of Environmental Protection welcomes

Leon & Alma Touloughlan
(or current property owner)
December 16, 2020
Page 2

comments and any information that you may provide concerning the proposed development and site. Please submit your written comments within 45 calendar days of the date of this letter to:

State of New Jersey Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
Trenton, New Jersey 08625

Attention: Borough of Oakland Supervisor, Rebecca Grike

If you should have any questions regarding this application, please do not hesitate to contact me at (201) 373-8905.

Very truly yours,

BOSWELL ENGINEERING


Frank J. Rossi, LSRP

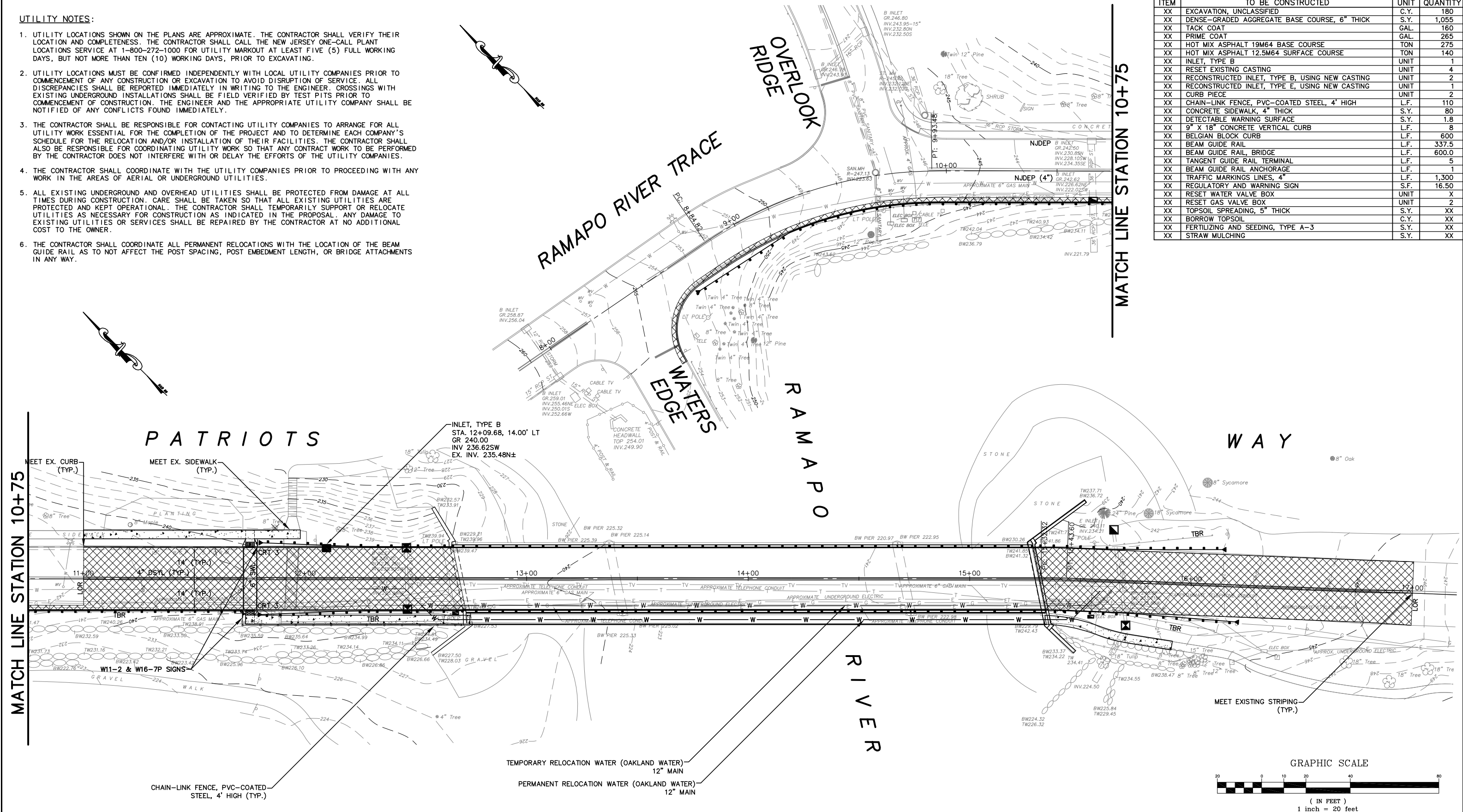
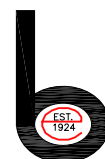
FJR/cr
Enclosure

201216CRL1_po



1. UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THEIR LOCATION AND COMPLETENESS. THE CONTRACTOR SHALL CALL THE NEW JERSEY ONE-CALL PLANT LOCATIONS SERVICE AT 1-800-272-1000 FOR UTILITY MARKOUT AT LEAST FIVE (5) FULL WORKING DAYS, BUT NOT MORE THAN TEN (10) WORKING DAYS, PRIOR TO EXCAVATING.
2. UTILITY LOCATIONS MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION TO AVOID DISRUPTION OF SERVICE. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CROSSINGS WITH EXISTING UNDERGROUND INSTALLATIONS SHALL BE FIELD VERIFIED BY TEST PITS PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE ENGINEER AND THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED OF ANY CONFLICTS FOUND IMMEDIATELY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING UTILITY COMPANIES TO ARRANGE FOR ALL UTILITY WORK ESSENTIAL FOR THE COMPLETION OF THE PROJECT AND TO DETERMINE EACH COMPANY'S SCHEDULE FOR THE RELOCATION AND/OR INSTALLATION OF THEIR FACILITIES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR COORDINATING UTILITY WORK SO THAT ANY CONTRACT WORK TO BE PERFORMED BY THE CONTRACTOR DOES NOT INTERFERE WITH OR DELAY THE EFFORTS OF THE UTILITY COMPANIES.
4. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES PRIOR TO PROCEEDING WITH ANY WORK IN THE AREAS OF AERIAL OR UNDERGROUND UTILITIES.
5. ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES SHALL BE PROTECTED FROM DAMAGE AT ALL TIMES. DURING CONSTRUCTION CARE SHALL BE TAKEN SO THAT ALL EXISTING UTILITIES ARE PROTECTED AND KEPT OPERATIONAL. THE CONTRACTOR SHALL TEMPORARILY SUPPORT OR RELOCATE UTILITIES AS NECESSARY FOR CONSTRUCTION AS INDICATED IN THE PROPOSAL. ANY DAMAGE TO EXISTING UTILITIES OR SERVICES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR SHALL COORDINATE ALL PERMANENT RELOCATIONS WITH THE LOCATION OF THE BEAM GUIDE RAIL AS TO NOT AFFECT THE POST SPACING, POST EMBEDMENT LENGTH, OR BRIDGE ATTACHMENTS IN ANY WAY.

ITEM	TO BE CONSTRUCTED	UNIT	QUANTITY
XX	EXCAVATION, UNCLASSIFIED	C.Y.	180
XX	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	S.Y.	1,055
XX	TACK COAT	GAL.	160
XX	PRIME COAT	GAL.	265
XX	HOT MIX ASPHALT 19M64 BASE COURSE	TON	275
XX	HOT MIX ASPHALT 12.5M64 SURFACE COURSE	TON	140
XX	INLET, TYPE B	UNIT	1
XX	RESET EXISTING CASTING	UNIT	4
XX	RECONSTRUCTED INLET, TYPE B, USING NEW CASTING	UNIT	2
XX	RECONSTRUCTED INLET, TYPE E, USING NEW CASTING	UNIT	1
XX	CURB PIECE	UNIT	2
XX	CHAIN-LINK FENCE, PVC-COATED STEEL, 4' HIGH	L.F.	110
XX	CONCRETE SIDEWALK, 4" THICK	S.Y.	80
XX	DETECTABLE WARNING SURFACE	S.Y.	1.8
XX	9" X 18" CONCRETE VERTICAL CURB	L.F.	8
XX	BELGIAN BLOCK CURB	L.F.	600
XX	BEAM GUIDE RAIL	L.F.	337.5
XX	BEAM GUIDE RAIL, BRIDGE	L.F.	600.0
XX	TANGENT GUIDE RAIL TERMINAL	L.F.	5
XX	BEAM GUIDE RAIL ANCHORAGE	L.F.	1
XX	TRAFFIC MARKINGS LINES, 4"	L.F.	1,300
XX	REGULATORY AND WARNING SIGN	S.F.	16.50
XX	RESET WATER VALVE BOX	UNIT	X
XX	RESET GAS VALVE BOX	UNIT	2
XX	TOPSOIL SPREADING, 5" THICK	S.Y.	XX
XX	BORROW TOPSOIL	C.Y.	XX
XX	FERTILIZING AND SEEDING, TYPE A-3	S.Y.	XX
XX	STRAW MULCHING	S.Y.	XX

[illegible]

BOSWELL ENGINEERING

ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. 24GA27958000

PROFESSIONAL ENGINEER N.J. LIC. 34680

PROFESSIONAL ENGINEER N.J. LIC. 31605

SUPERSTRUCTURE REPLACEMENT OF PATRIOTS WAY BRIDGE
OVER RAMAPO RIVER
CONSTRUCTION PLAN
BOROUGH OF OAKLAND

BERGEN COUNTY			NEW JERSEY	
SURVEYED BY: AB	DESIGNED BY: JUM	SCALE:	JOB NO.	DATE:
DRAWN BY: JUM	CHECKED BY: CJN	1"=20'	OK-1713	11/23/20
CADD FILE: OK-1713-CP			SHEET 4 OF 30	

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Chairman, Environmental Commission
Borough of Oakland
1 Municipal Plaza
Oakland, NJ 07436

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Construction Code Official
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Borough of Oakland
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Andukuri Ravi Rao & Lakshmi Goteti
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 3 Hunters Run
 Oakland, NJ 07436

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Kuang-chi Tan & Geraldine Meijh
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 1 Hidden Gorge
 Oakland, NJ 07436

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 Chairman Planning Board
 Borough of Oakland
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Mr. Joseph Valente
 Chair
 Bergen County Planning Board
 One Bergen County Plaza, Room 415
 Hackensack, NJ 07601-7076

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Leon & Alma Touloughlan
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 1 Hunters Run
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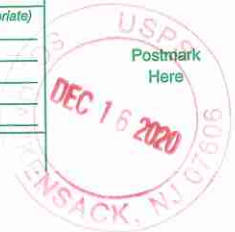
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Mr. Edw. McDonough
Rockland Electric Co.
One Blue H Plaza
Pearl River, NY 10965

PS Form 3800, April 2013



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PS Form 3800, April 2013



SECTION 6

1. Qualifications of Preparers



BOSWELL ENGINEERING

ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831

YEARS OF EXPERIENCE: 35 Years

EDUCATION:

B.S. Chemistry, Fairleigh Dickinson University
M.S. Chemical Engineering, New Jersey Institute of Technology

CONTINUING PROFESSIONAL EDUCATION:

Rutgers University – Cook College:
Site Remediation Basics
Regulatory Training in Underground Storage Tanks
Groundwater in Fractured Bedrock
Practical Applications in Hydrogeology
Wetland Identification & Delineation
Advanced Wetland Delineation
Freshwater Wetland Construction Techniques
Onsite Wastewater Disposal Systems – Design, Inspection, O&M
Dam Design, Rehabilitation & Inspection
Pond Design, Management & Maintenance
Soil Erosion & Sediment Control Design & Inspection

REGISTRATIONS: NJDEP Licensed Site Remediation Professional (LSRP)

CERTIFICATIONS:

NPDES Certified Stormwater Inspector
NJDEP Licensed for UST – Installation, Testing, Closure and Subsurface Evaluation
NJDEP – Stormwater Management Design Review Course
OSHA 40-Hour HAZMAT & 8-Hour Annual Refresher
OSHA 10-Hour Construction Safety
AHERA Asbestos Inspector/Management Planner
Confined Space Entry
EPA/HUD Certified Lead Inspector
Certified Wetland Delineator

EXPERIENCE:

Mr. Rossi has over 35-years of experience as a project manager/senior environmental/chemical engineer. He has a strong diverse background in chemical, civil and environmental engineering. Mr. Rossi also has extensive hands-on experience in all types of field applications, including but not limited to, Preliminary Assessments (PA), Site/Remedial Investigations (SI/RI), underground storage tank (UST) removals and installations, remedial investigations/feasibility studies (RI/FS) and remedial actions. In addition to the aforementioned Mr. Rossi's previous chemical engineering experience at several international firms makes him uniquely suited for the design and operation of soil and groundwater remediation systems.

FRANK J. ROSSI, LSRP

For over two-decades Mr. Rossi has also specialized in State and Federal permit acquisition, wetlands delineation, as well as coastal and waterfront development projects. Mr. Rossi has performed multi-disciplined environmental permitting efforts for numerous clients. His responsibilities include wetlands delineation and assessment as well as floodplain management and flood mitigation. He has experience in many areas of coastal design projects including the preparation of State and Federal environmental permits for the NJDEP, including CAFRA, Waterfront Development, Coastal and Freshwater Wetlands, TWA, NJPDES, and the USACOE, NJDEP Fish Game and Wildlife Permits, and NJDEP Dam Permits and Inspections.

His experience includes:

- ***Decommissioning & Demolition of a former Nike missile site, Mahwah, NJ.*** Project manager who performed a detailed environmental investigation for USTs, PCB containing electrical transformers and capacitors, asbestos and lead-based paint. Once the site's environmental concerns were identified, managed the remedial action of all hazardous materials including PCB transformers and USTs and the abatement of asbestos and lead based paint. Following the hazardous materials removal, designed a treatment system to dewater the site's missile silos.
- ***Initial site/remedial investigation of the Port Authority's PATH tunnels following the World Trade Center (WTC) attack.*** Project manager who managed two (2) assessment teams traveling through the tunnels from Jersey City (Exchange Place) beneath the Hudson River to the former World Trade Center station at Ground Zero. The project was designed to investigate the tunnels for PCBs released from the WTC electrical transformers, petroleum hydrocarbons from the building's ruptured underground storage tanks (UST) as well as the presence of any other contaminants washed into the tunnels by both the fire fighting and dust suppression efforts at Ground Zero.
- ***Reconstruction of Bridge over the Hirschfeld Brook (Environmental Portion), New Milford, NJ.*** Mr. Rossi's, as project manager, expertise was required on an emergency basis when petroleum contaminated groundwater was encountered during the excavation of the bridge's abutments. Since the excavation required continuous dewatering, Mr. Rossi designed a groundwater treatment that included a Frac Tank as an oil/water separator and large granulated activated carbon units. Due to the system's effectiveness, the NJDEP granted the project an expedited permit that allowed the treated water to be discharged to the brook. The treatment system and subsequent discharge approval provided a significant cost savings and minimized serious project over-runs and delays.
- ***Preliminary Assessment (PA), Greystone Psychiatric Hospital, Morris Plains, NJ.*** As project manager, performed a thorough and detailed assessment of this 900-acre, 125-year old facility. Work included a thorough inspection of over 50 buildings, some currently in use and others abandoned for decades; inspection of the utility tunnel and sub-tunnel system beneath a number of buildings to ascertain the possibility of decommissioning the central power plant and converting the facility to individual utilities; asbestos and lead-based paint surveys; mapped existing utilities utilizing electromagnetic instrumentation and ground penetrating radar; identification of electrical transformers containing PCBs; limited wetland identification; and preparation of a several hundred page report detailing the site's environmental areas of concern (AOC) including detailed plans depicting environmental constraints. Following the PA performed a soil/groundwater Site Investigation (SI) at the facility's former manufactured gas plant (MGP).
- ***UST removal & UST/AST installation, Department of Public Works, Municipal Building and five (5) pump stations, Elmwood Park, NJ.*** Project Manager work included the preparation of comprehensive plans and specifications; evaluated contractor bids and

FRANK J. ROSSI, LSRP

awarded contract; provided site supervision at many of the projects; performed Site and Remedial Investigations (SI/RI) (soil & groundwater); supervised contaminated soil excavation and free-phase petroleum product removal from the water table; prepared and/or reviewed SI/RI Reports for submission to the NJDEP; designed future groundwater remedial investigation/action at four (4) of the sites including the Municipal Building and Department of Public Works.

- ***Preliminary Assessment (PA) for 80-year old former gasoline filling station, Garfield, NJ.*** Designated project manager. Through the analysis of historic Sanborn Fire Insurance Maps identified six (6) USTs remaining on the property since the station's closure in the late 1960s. Also identified other potential concerns such as an in-ground hydraulic lift and ACM/LBP on the station building. Following the PA, performed the site's UST removal, site investigation and provided professional oversight during the facility's demolition.
- ***Preliminary Assessment (PA), Site Investigation (SI) and emergency Remedial Action (RA), Garden State Industrial Park warehouse complex.*** As project manager, performed and authored a detailed PA report; identified four (4) previously undocumented USTs through the use of ground penetrating radar (GPR); conducted the emergency removal of the four (4) leaking USTs in close proximity to facility and municipal production wells; performed SI following tank removal; field designed contamination interceptor systems utilizing geosynthetics.
- ***Site Investigation (SI) of an active gasoline service station, Rochelle Park, NJ.*** As project manager, performed subsurface investigations, monitoring well installation and gauging, soil vapor point installation and sampling and low flow groundwater sampling. Interpreted all laboratory data and prepared Remedial Action Progress Reports for submission to the NJDEP. Provided operation and maintenance (O&M) of an on-site oil water separator and groundwater air stripper. Delineated on-site/off-site volatile organic contaminant (VOC) contamination and provided hydraulic control of the site's VOC plume.
- ***Preliminary Assessment (PA) of Venezia's Auto Supply.*** This facility was an existing gasoline filling station/auto supply business operating continuously since 1920. As project manager, discovered during the PA the site contained at least nine (9) USTs over the years, a 40,000-gallon AST, and a floor drain system connected to a septic disposal field. Following completion of the PA prepared a detailed Site Investigation Workplan (SIW) addressing each of the environmental AOCs.
- ***Southern New Jersey Light Rail DBOM, New Jersey Transit.*** Project Manager for the environmental permitting portion of the Southern New Jersey Light Rail Design/Build/Operate/Maintain (DBOM) project. This project involved the construction of a 35-mile section of railroad between Camden and Trenton, New Jersey. The railroad passed through numerous environmentally sensitive wetland areas requiring Mr. Rossi's expertise in identifying the various State and Federal permits required for construction. A brief list of the permits identified and obtained for this project included NJDEP Freshwater Wetlands, ACOE Coastal Wetlands and U.S. Coast Guard.
- ***Riverview Club and Towers, East Rutherford & Carlstadt, NJ.*** Project manager for the preparation of engineering and environmental plans for the Riverview Club and Towers, a 1-million square foot multi-use, residential, hotel, retail, banquet facility and marina on the Hackensack waterfront. Conducted all phases of the project's wetland assessments, delineations, and permitting. Included the legalization of 3-acres of fill on wetlands through an interagency negotiation with the NJMC, ACOE, NJDEP, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Environmental Protection Agency (EPA).
- ***Yaohan Shopping Plaza, Edgewater, NJ.*** Project Manager, this project included preparing a site plan for a 100,000-square foot retail shopping center and 25,000-square foot restaurant along the Hudson River waterfront. Prepared the waterfront development permit in compliance with the NJDEP coastal zone policies. Also prepared an ACOE Section 404 B

FRANK J. ROSSI, LSRP

program permit for the construction of a sea wall along the Hudson River as well as dredging and existing pier removal permits in conjunction with the EPA.

- ***Pulte Lifestyle Communities Property, Wanaque, NJ.*** Project manager for the development of a 442-acre active adult housing community for Pulte Homes. Prepared the site's wetland delineation, Environmental Impact Statement (EIS), Phase I Environmental Site Assessment (ESA), wildlife and vegetation inventory and noise impact study. Also performed a site survey with archeologists and town historians, prepared Letter of Interpretation (LOI) application to NJDEP and obtained Freshwater Wetland General Permits, Stream Encroachment Permits, Water Allocation Permits, Treatment Works Approval Permit and designed Best Management Practices (BMP) for a proposed 9-hole golf course.
- ***Wetland delineation & prepared individual Freshwater Wetland & Stream Encroachment Permit Applications, Goffle Brook, Hawthorne, NJ.*** Project manager for this 2-mile stretch of the Goffle Brook involved working with design engineers in ascertaining the most heavily eroded portions of the brook and assisted with the preparation of detailed plans and specifications for bioengineering bank stabilization.
- ***Preparation of Municipal Stormwater Management Plans (MSMP) for 24 municipalities in Bergen, Passaic & Hudson Counties, NJ.*** As project manager, assisted all municipalities during the preparation of their Tier A/Tier B NJPDES Permit Application. Provided Quality Assurance/Quality Control Review of all MSMPs. Also provided a Microsoft PowerPoint presentation for many of the Mayor, Council and planning boards detailing the stormwater regulations. Additionally, met with many local designated Stormwater Management Coordinators and provided direct assistance during the preparation of their Stormwater Pollution Prevention Plan (SP3).

AFFILIATIONS:

New Jersey Licensed Site Remediation Professionals Association
New Jersey Water Environment Association

YEARS OF EXPERIENCE:

5 Years

EDUCATION:

B.S. Environmental Science, Ramapo College of New Jersey

REGISTRATION/CERTIFICATION:

OSHA 40-Hour Hazardous Waste Site Operations
OSHA 30-Hour Construction Industry Outreach Training
Due Diligence in New Jersey
NJDEP NDR Regional Stormwater Infrastructure
Introduction to Wetland Identification

EXPERIENCE:

Ms. De Smet has five (5) years of experience in the field of environmental science during which she has performed a broad range of environmental services including acquiring local, County, State, and Federal regulatory permits and providing environmental guidance throughout New Jersey, Washington D.C., and New York including the five (5) boroughs; collecting surface and groundwater samples; analyzing water quality against NJDEP, NYSDEC, and NYCDEP parameters; determining water treatment requirements; and collecting field data utilizing a GPS unit.

Ms. De Smet's specific environmental experience includes the following representative projects:

ENVIRONMENTAL PERMITTING

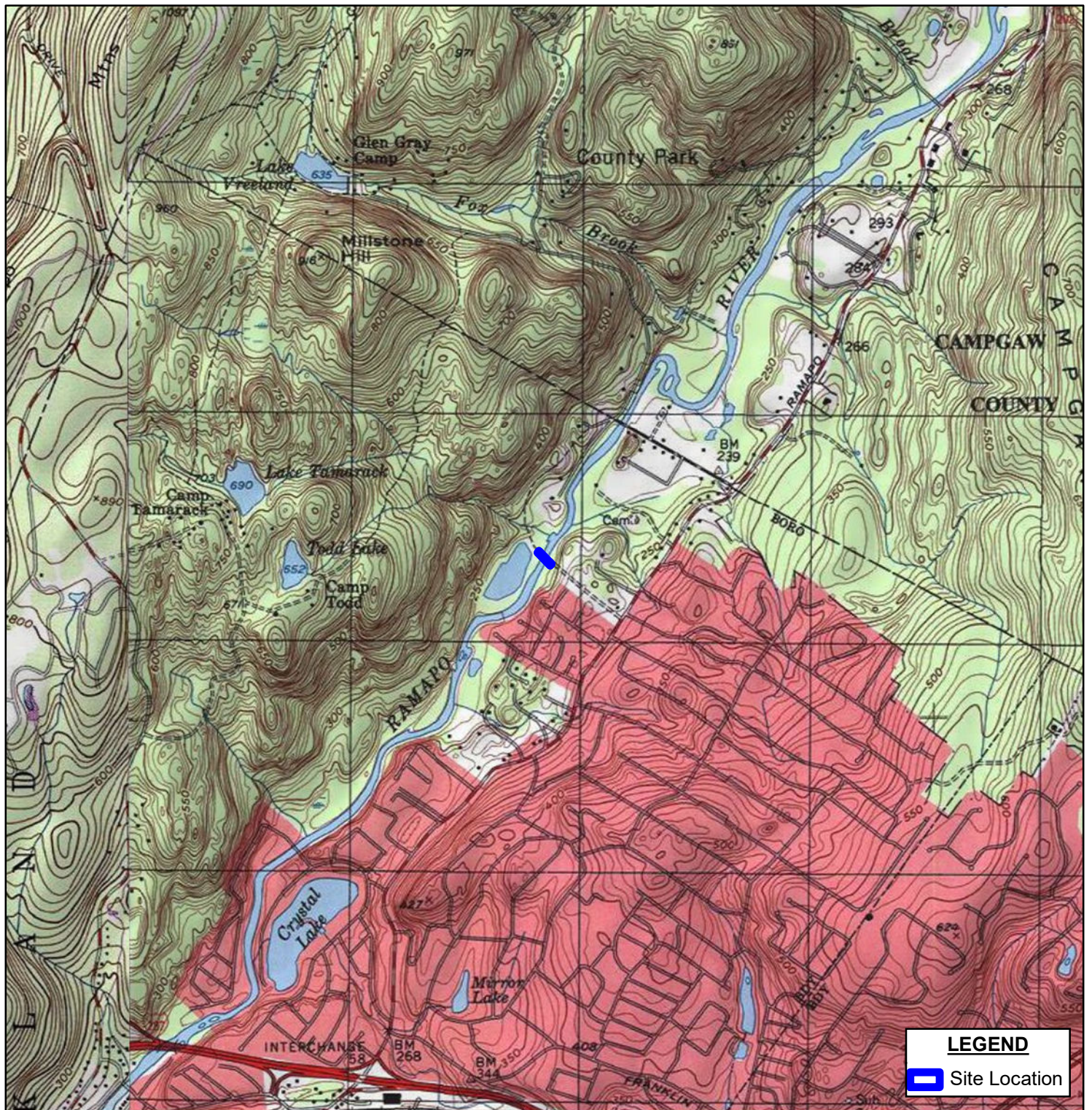
- ***Dundee Island Park Improvements, Passiac, NJ.*** Regulatory permitting for improvements at Dundee Island State Park including rain gardens, riparian zone rehabilitation, and upgrading of all park facilities and resources. Permits obtained for the project included an ACOE Nationwide Permit 7 and NJDEP Waterfront Development Individual Permit and Hardship Exemption.
- ***Restoration of Fleischers Brook, Garfield, NJ.*** Regulatory permitting for the restoration of Fleischers Brook including stream cleaning and the installation of a retaining wall in a washout area along the emergency access road for Garfield Middle School. Permits obtained for the project included a NJDEP Flood Hazard Area Individual Permit and NJDEP Freshwater Wetlands General Permits 1, 20, and 25.
- ***Rehabilitation of Patriots Way Bridge Over Ramapo River, Oakland, NJ.*** NJDOT Environmental Compliance evaluation for the rehabilitation of Patriots Way Bridge including the removal and replacement of the bridge deck, concrete repairs to the damaged abutment headers, replacement of the deteriorated deck joints, and repaving both approach roadways .
- ***Feasibility Study of the Raritan River Flood Wall, Sayreville, NJ.*** Environmental constraints study regarding the feasibility of constructing a floodwall around the Raritan River Substation considering the site's proximity to the tidally influenced Raritan River and determining the requirements of permits from both the NJDEP and ACOE.

Elizabeth De Smet

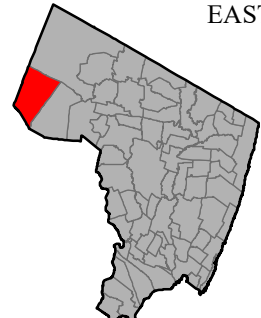
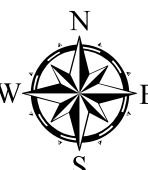
- ***Secaucus Duck Pond, Secaucus, NJ.*** Environmental assessment for Green Acres Local Government Stewardship Grant Program. The project includes the construction of a crushed stone path around the perimeter of the duck pond to replace the existing path which lacks clear delineation.
- ***Repair of Collapsed Bulkhead Section Along Byram River, Port Chester, NY.*** Regulatory permitting for the restoration of the Byram River Bulkhead that was damaged during Superstorm Sandy and improvements to the riverfront to provide the public with access to the improved Riverwalk. Permits obtained for the project included an ACOE NOAA GARFO Section 7 permit including an ACOE Essential Fish Habitat study.
- ***Meadowlands Parkway Recreation Facility, Secaucus, NJ.*** Regulatory filing of a NJDEP Jurisdictional Determination for a proposed recreation facility building to be located along Meadowlands Parkway.

ENVIRONMENTAL SAMPLING

- ***Pleasant Brook Surface Water Sampling, Upper Saddle River, NJ.*** Monthly surface water sampling for monitoring arsenic in several watercourses in the Borough of Upper Saddle River. Samples are taken both up and downstream to track arsenic levels against NJDEP standards.
- ***233 Central Avenue, Hawthorne, NJ.*** Groundwater sampling and field analysis of monitoring wells after the injection of oxidizers for groundwater remediation of volatile organic compounds.



SOURCE: UNITED STATES GEOLOGICAL SURVEY (USGS) RAMSEY QUADRANGLE

NORTHING: 806,770 EASTING: 567,025   	BOSWELL ENGINEERING 330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606	
	USGS TOPOGRAPHIC MAP SUPERSTRUCTURE REPLACEMENT PATRIOTS WAY OVER THE RAMAPO RIVER BLOCK 1104 / LOT 1 BOROUGH OF OAKLAND	
	BERGEN COUNTY	NEW JERSEY

DR. BY: JMW CKD. BY: FJR	SCALE: 1 IN = 2,000 FT DATE: JUNE 2020	JOB NO. OK-1713 USGS
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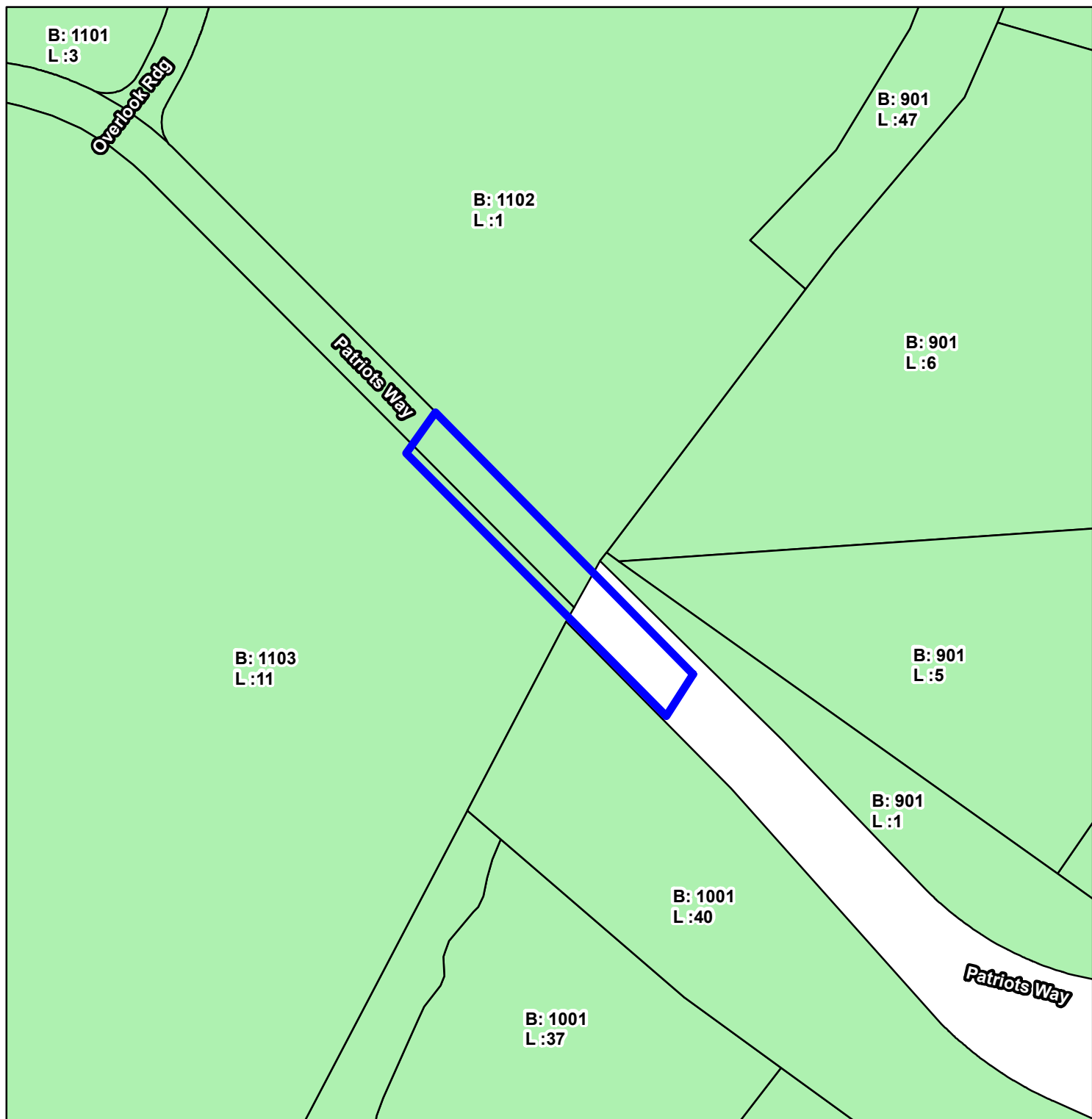
MAPS & FIGURES

1. U.S.G.S. Quadrangle Map
2. Tax Assessment Map
3. NJDEP Freshwater Wetlands Map
4. SSURGO Soil Survey Map
5. Aerial Map
6. FEMA Flood Map
7. Street View Maps

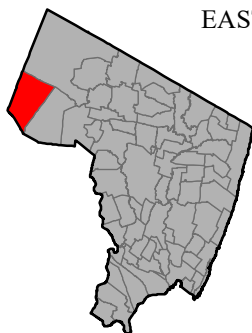
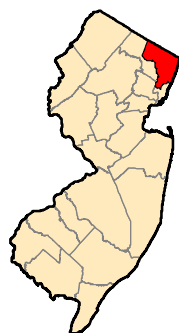


BOSWELL ENGINEERING

ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831



SOURCE: NJ OFFICE OF GEOGRAPHIC INFORMATION SYSTEMS PARCELS/MOD-IV COMPOSITE LAYER



NORTHING: 806,770
EASTING: 567,025



BOSWELL ENGINEERING

330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

TAX MAP

SUPERSTRUCTURE REPLACEMENT
PATRIOTS WAY OVER THE RAMAPO RIVER
BLOCK 1104 / LOT 1
BOROUGH OF OAKLAND

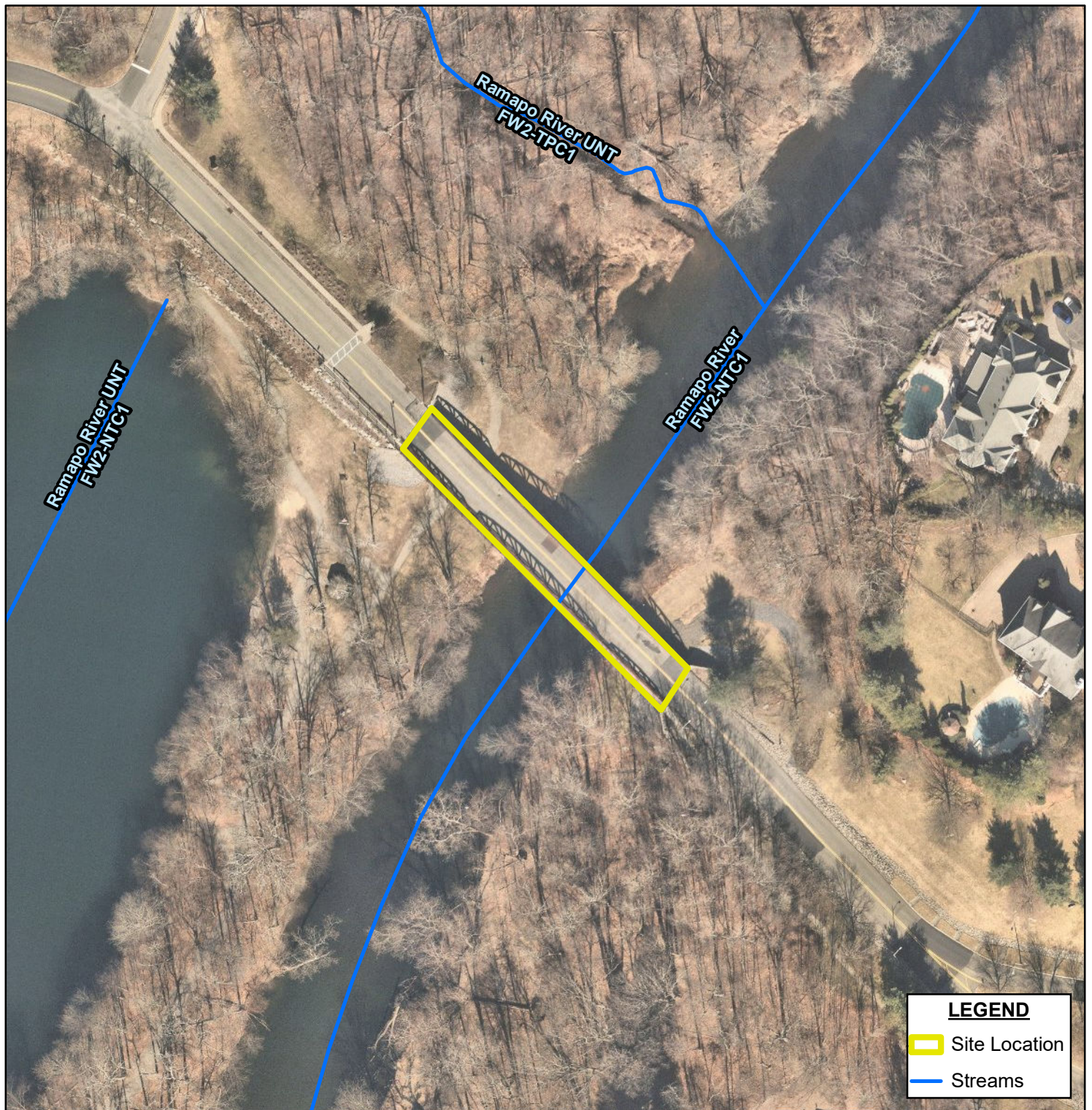
BERGEN COUNTY

NEW JERSEY

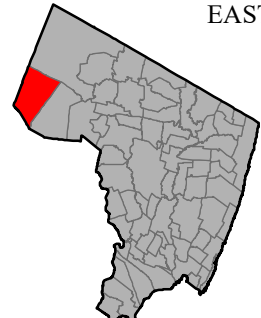
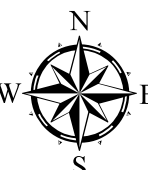
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SCALE: 1 IN = 100 FT
DATE: JUNE 2020

JOB NO. OK-1713
TAX



SOURCE: 2020 NEARMAP AERIAL IMAGERY

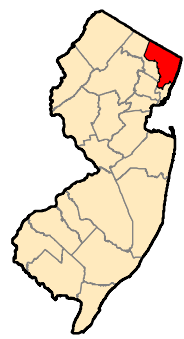
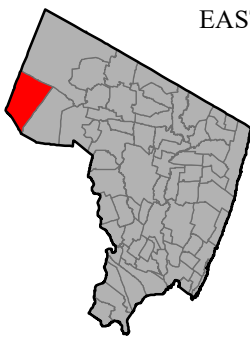
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DR. BY: JMW CKD. BY: FJR	SCALE: 1 IN = 100 FT DATE: JUNE 2020	JOB NO. OK-1713 AERIAL		



LEGEND

- Site Location
- Wetlands
- Streams

SOURCE: NJDEP FRESHWATER WETLANDS DATALAYER

NORTHING: 806,770
EASTING: 567,025





BOSWELL ENGINEERING

330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

WETLAND MAP

SUPERSTRUCTURE REPLACEMENT

PATRIOTS WAY OVER THE RAMAPO RIVER

BLOCK 1104 / LOT 1

BOROUGH OF OAKLAND

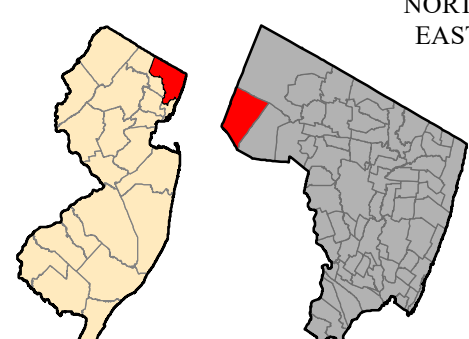
BERGEN COUNTY

NEW JERSEY

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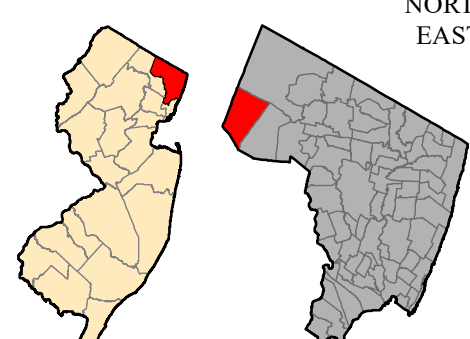


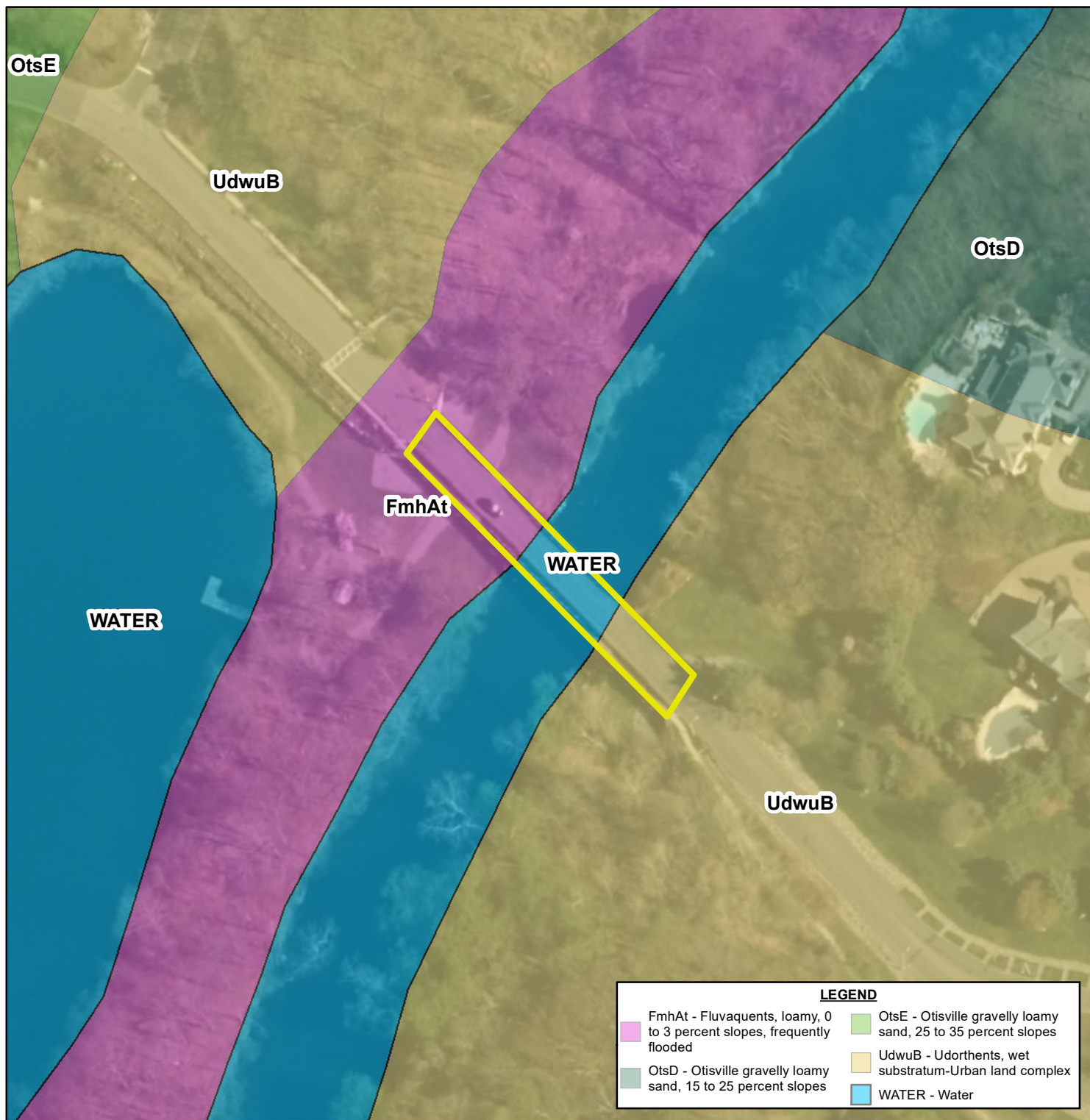
SOURCE: BERGEN COUNTY FEMA FLOOD DATA LAYER

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BERGEN COUNTY		NEW JERSEY								
DR. BY: JMW CKD. BY: FJR	SCALE: 1 IN = 100 FT DATE: JUNE 2020	JOB NO. OK-1713 FEMA								

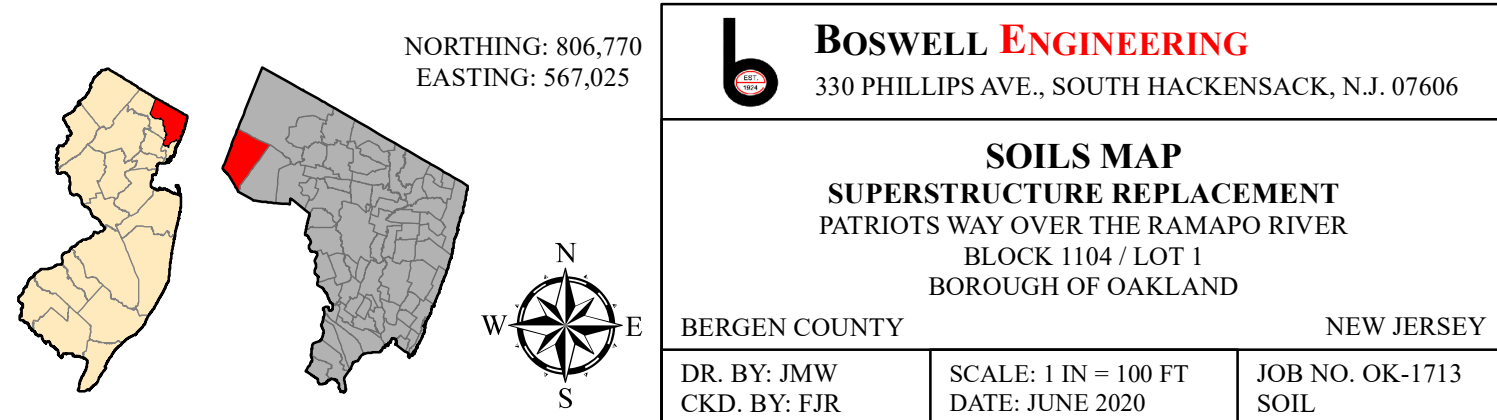


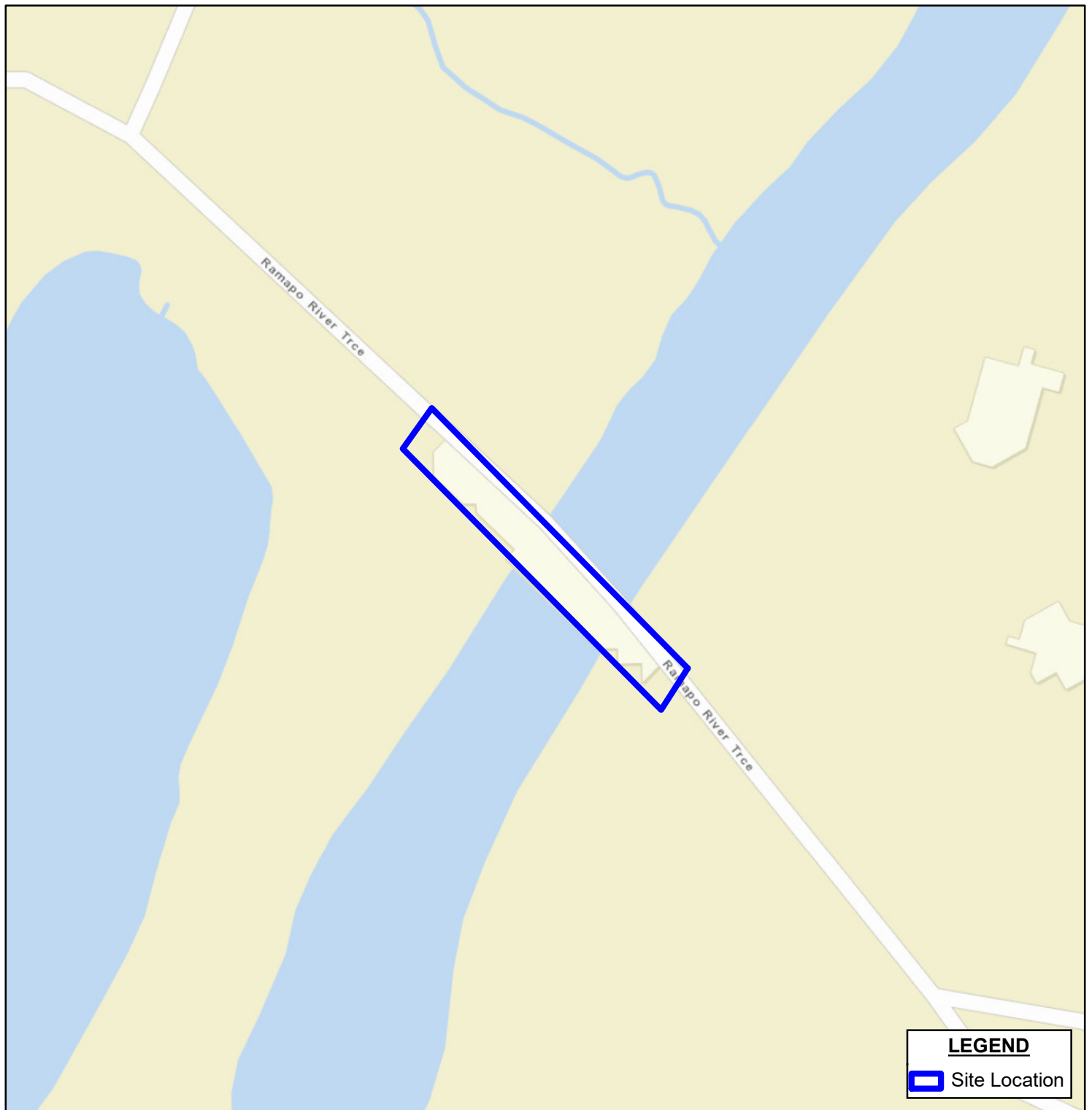
SOURCE: NJDEP BEDROCK GEOLOGY DATA LAYER

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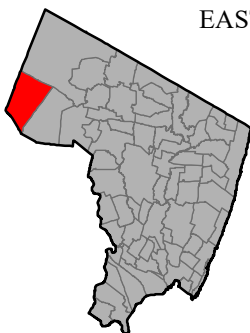
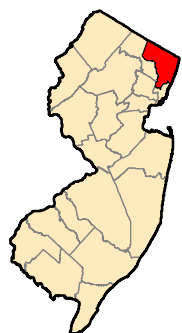


SOURCE: : SSURGO SOIL SURVEY OF BERGEN COUNTY





SOURCE: ESRI OPEN STREET MAP BASELAYER



NORTHING: 806,770
EASTING: 567,025



BOSWELL ENGINEERING

330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

STREET MAP (CLOSE UP)
SUPERSTRUCTURE REPLACEMENT
PATRIOTS WAY OVER THE RAMAPO RIVER
BLOCK 1104 / LOT 1
BOROUGH OF OAKLAND

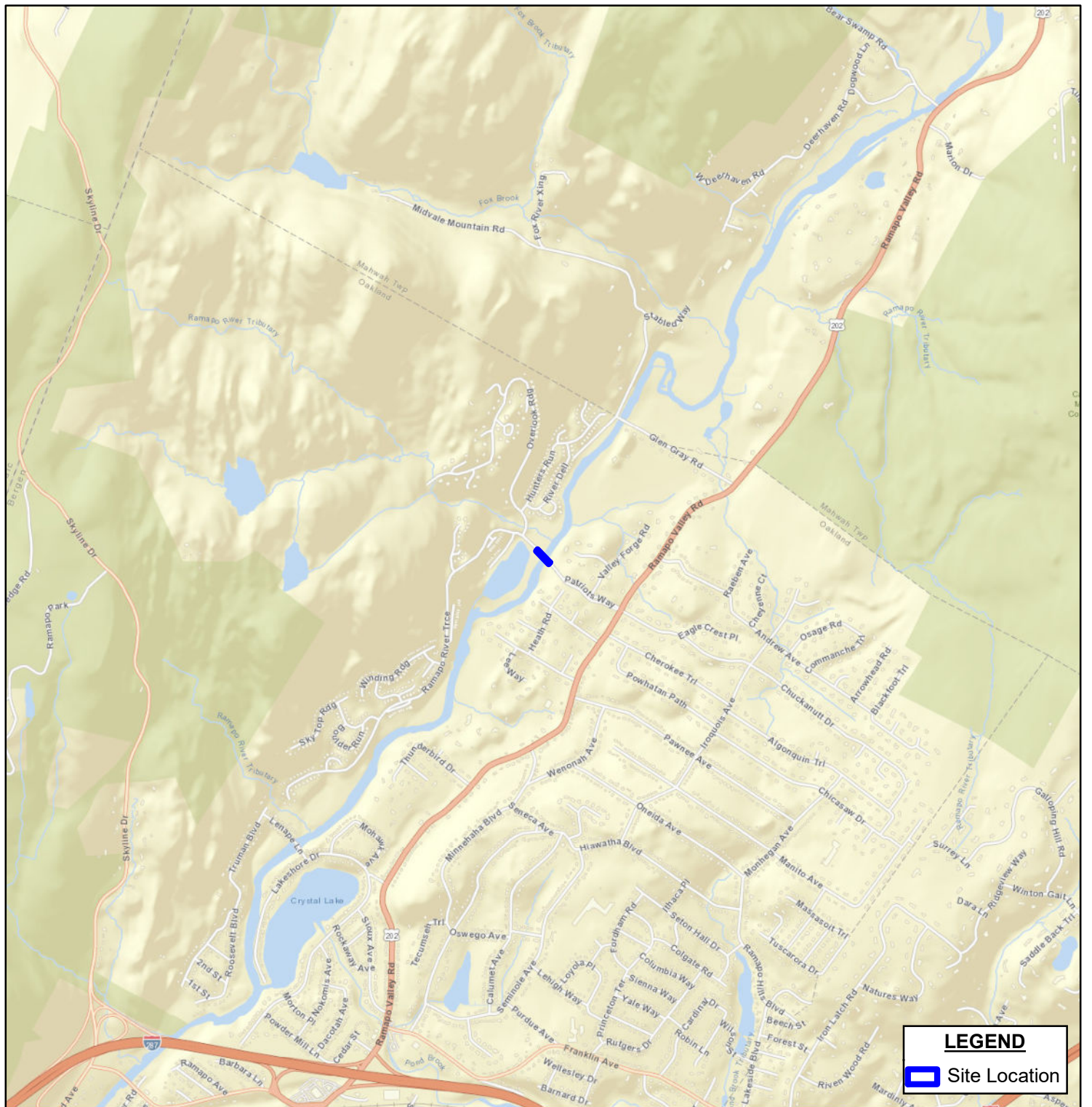
BERGEN COUNTY

NEW JERSEY

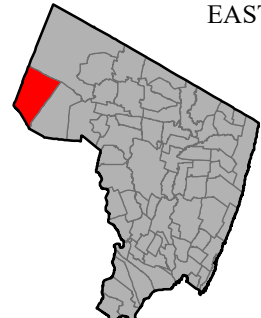
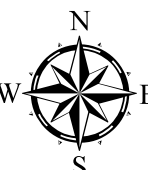
DR. BY: JMW
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SCALE: 1 IN = 100 FT
DATE: JUNE 2020

JOB NO. OK-1713
STREET (+)



SOURCE: ESRI OPEN STREET MAP BASELAYER

NORTHING: 806,770 EASTING: 567,025   	BOSWELL ENGINEERING 330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606		
	STREET MAP SUPERSTRUCTURE REPLACEMENT PATRIOTS WAY OVER THE RAMAPO RIVER BLOCK 1104 / LOT 1 BOROUGH OF OAKLAND		
BERGEN COUNTY	DR. BY: JMW CKD. BY: FJR	NEW JERSEY SCALE: 1 IN = 2,000 FT DATE: JUNE 2020	