STORMWATER POLLUTION PREVENTION PLAN

(under SPDES General Permit No. GP-0-15-002)

FOR

SOUTHPOINT OPEN SPACE PARK (SPOSP)
SOUTHPOINT PARK
ROOSEVELT ISLAND, NY 10044

Prepared For:

Roosevelt Island Operating Corporation
591 Main Street
Roosevelt Island, NY 10044

Prepared By:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, NY 10001

8 January 2020
100332702

LANGAN

CONSTRUCTION ACTIVITY

STORMWATER POLLUTION PREVENTION PLAN

SOUTHPOINT OPEN SPACE PARK – RIP-RAP REVETMENT

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INTRODUCTION

The proposed Southpoint Open Space Park Rip Rap Revetment project for Roosevelt Island ("the Project") New York includes portions of the east and west shorelines ("the Site") of Southpoint Park ("the Park"), which is located at the southern part of Roosevelt Island between Four Freedoms Park and the former Goldwater Memorial Hospital and future Cornell Campus (Figure 1). The Park is operated by Roosevelt Island Operating Corporation (RIOC) and comprises about eight acres which was constructed in 2012, and is open to the public for recreational use. The two waterfront zones (east and west shorelines) remain closed to the general public pending reconstruction and environmental remediation.

The project generally consists of the demolition and removal of 1,600 linear feet of existing failing stone and masonry seawalls on the east and west shorelines of the park. The seawalls will be replaced by the construction of a new rip-rap revetment and two 100 foot sections of seawall to be rebuilt on the west shoreline. The rip rap revetment on the east shoreline will incorporate a lower pedestrian walkway along the east and west side shorelines to bring park visitors to the waters' edge and enjoy the views. The proposed improvements will include the excavation and off-site disposal of more than 8,000 cubic yards of fill material from the two waterfront zones. Importation of clean fill material, rip-rap stone, and top soil will also be needed. The proposed rip-rap revetment has been designed to provide a stable slope, and protect against wave action, scour, and erosion. The proposed improvements will enhance public access to the waterfront, and improve the view of the surrounding area including Manhattan, Queens, Brooklyn and the East River.

The proposed project will disturb more than one acre of land, and therefore, the project must obtain coverage under the latest Phase II New York State Department of Environmental Conservation (NYSDEC) SPDES *General Permit for Stormwater Discharges from Construction Activity* (GP-0-15-002) which requires that this Construction Activity Stormwater Pollution Prevention Plan (SWPPP) be prepared prior to the beginning of construction and be amended when the current provisions prove to be ineffective in minimizing pollutants in stormwater discharges from the site. The SWPPP should also be amended when there is a change in design, construction, or operation at the construction site that has or could have an effect on

the discharge of pollutants at the site and to address issues or deficiencies identified during an inspection by the qualified inspector. In addition, the SWPPP should also be amended if there are changes in the soil stabilization and inspection requirements thereof which have not otherwise been addressed in the plan or if the actions required by the SWPPP fail to prevent pollution. In particular, an Erosion and Sediment Control Plan, showing specific controls, shall be implemented.

In accordance with requirements of the General Permit, a Notice of Intent (NOI) for Stormwater Discharges Associated with Construction Activities will be sent to the NYSDEC prior to the start of construction and a copy provided in Appendix A – Notice of Intent.

SITE DESCRIPTION

Description of Site

The existing seawalls along the east and west shorelines are in poor conditions. Due to the condition of the existing seawalls, the scope of the proposed site improvements will consist of the demolition and removal of the existing failing stone and masonry seawalls along the east and west shoreline. The seawalls along the west side will be replaced by the construction of a new 2H:1V rip-rap revetment, a 100 foot section of granite seawall to be rebuilt and a 100 foot section of concrete wall to remain. The seawalls along the east side will be replaced by the construction of a new 2H:1V rip-rap revetment, and will incorporate a lower pedestrian walkway along the east and west side shorelines to bring park visitors to the waters' edge and enjoy the views.

Grades on-site above the rip-rap vary from el. 8 ft to el. 12 ft (top of existing seawall varies) and up to approximately el. 15 ft. primarily on the east waterfront where historically demolition debris has been deposited from prior construction operations (all elevations herein are reference to North American Vertical Datum of 1988, NAVD 88; mean high water equals ±1.90). Existing onsite vegetation is comprised mainly of upland grasses with trees along parts of the shoreline. There is no aquatic vegetation located along the rip-rap lined shoreline.

Description of Soil Conditions

The log of borings and test pits reveal that the subsurface conditions consist of 7 ft to 30 ft of fill mixed with granular soils and underlain by thin layers of sand and organic clay overlying bedrock. This bedrock is described as gneiss and was encountered from el. 2.65 feet to el. -13.25 feet generally dipping downward from the north towards the south. In most areas, the seawall will bear either on the fill material or on the existing stone wall footing which bears on fill.

Stormwater Runoff Characteristics

Existing Conditions

Southpoint Park, is currently operational between the two waterfronts and was developed as an "open space" which also serves as access to FDR Four Freedoms Park with considerable elevation and vegetated growth. The seawalls are located along the east and west perimeter of the park. The site conditions adjacent to the seawalls vary from generally vegetated on the west shore to generally bare-earth man-made stockpiles on the east shore. These stockpiles consist of excess soil with crushed rock and demolition debris placed during the demolition of the previously existing buildings over the years. Presently the site does not discharge into any New York City storm conveyance system, as none exist within the site or Park.

The eastern half of the Park drains overland to the east channel of the East River and the western half of the site drains overland to the west channel of the East River. While exceptions to this include local areas of infiltration, there are no piped discharges through the existing seawalls or by other routes to the river waters.

Proposed Conditions

After development of the site, the stormwater will follow a pattern similar to the conditions that existed prior to the fill and debris stockpiling activities, as the stockpiles will be removed off site. The future promenade on the eastern and western side of the park adjacent to the seawalls will be pitched so that excess stormwater will run-off over the rip-rap revetment and into the East River and will not be a part of any New York City storm conveyance system. No

stormwater quantity management is proposed since this development will be discharging to the tidally influenced East River waterway which it cannot impact from a flooding standpoint.

DESCRIPTION OF CONSTRUCTION

Project Phasing

The project schedule has yet to be determined but will most likely be broken down into two phases as listed below, the sequence of which will be determined between the Contractor and RIOC. The principles of this SWPPP are to be followed throughout all phases.

PHASE 1 The West Side Rip-Rap Revetment Construction

This phase of work focuses on the construction of the rip-rap revetment and seawall reconstruction along the west shoreline. This phase of work will most likely begin at the southernmost point with the contractor working his way in the northerly direction. The scope of work will be dependent on the method of reconstruction decided upon by the Roosevelt Island Operation Corporation.

At the conclusion of work excess fill will be removed from the site.

PHASE 2 The East side Rip-Rap Revetment Construction

This phase of work focuses on the construction of the rip-rap revetment, and the construction of a 10-feet wide pedestrian walkway. The scope of work will be dependent on the method of reconstruction decided upon by the Roosevelt Operations Corporation.

At the conclusion of work excess fill will be removed from the site.

Sequence of Construction Activity Controls

The following general construction sequence will be implemented for the protection of water quality:

1. Stake and delineate limits of disturbance as shown on contract drawings. All work shall remain within these limits.

2. Install perimeter sediment and erosion control consisting of reinforced silt fence and a double row of weighted turbidity curtains as shown on contract drawings, C-200.00 (Soil Erosion & Sediment Control Plan) and C-201.00 (Soil Erosion & Sediment Control Details), prior to soil disturbance.

3. Demolish existing failing stone and masonry seawalls and walls as shown on contract drawings, DM-100.00 (Demolition Plan).

4. Construct new rip rap revetment. Provide and maintain interim stabilization, as appropriate, or where indicated on the construction documents. Interim stabilization, including temporary seeding, shall be placed when construction activities temporarily or permanently cease on a portion of the site within 7 days after the construction activity has ceased.

5. Final-grade completed areas and install permanent landscape stabilization as shown on contract drawing, L-100.00 (Landscape Plan), L-101.00 (Irrigated Area Plan), L-110.00 (Landscape Notes & Details) and L-111.00 (Irrigated Details).

6. Remove erosion and sedimentation control measures, following permanent stabilization.

A record of the dates when the major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated, shall be kept and included within this plan.

STORMWATER POLLUTION PREVENTION CONTROLS

Soil Erosion and Sediment Controls

Temporary and permanent soil erosion and sediment control measures have been designed and located to minimize the amount of sediment carried by stormwater runoff and discharge to adjacent surface waters or to on-site drainage structures. The soil erosion and sediment control design was completed in accordance with the "New York State Standards and Specifications for Erosion and Sediment Control," August 2005. The owner or operator of a construction activity shall not disturb greater than five acres of soil at any one time without prior written authorization from the NYSDEC. If the owner or

operator plans to disturb greater than five acres of soil at one time the SWPPP must be amended to include the requirements of the SPDES permit. The following summarizes the planned erosion and sediment control practices for the project.

Install erosion and sediment controls measures as shown on the contract drawings:

The Contractor shall be responsible for the installation and maintenance of all temporary erosion and sediment control measures. The Contractor shall also be responsible for the installation of permanent control measures. The Owner shall be responsible for the maintenance of all permanent control measures.

All silt fence and inlet filter fabric installed on the project site shall be maintained as follows:

1. The fence and inlet filter fabric condition will be inspected once a week or after every storm event whichever comes first. Any necessary repairs will be made immediately.

2. Accumulated sediments will be removed as required to keep the silt fence/filter fabric functional. In all cases, remove deposits where accumulations reach above one-third ground height of the fence.

3. All undercutting or erosion of the silt fence toe anchor will be repaired immediately with compacted backfill materials.

4. Adhere to manufacturer's recommendations for replacing filter fabric fence due to weathering. The storm drainage system shall be inspected prior to completion of project. All sediments shall be removed prior to completion of project.

Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the East River. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing

significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking.

The contractor shall initiate stabilization measures as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased. This requirement does not apply in the following instances:

a. Where the initiation of stabilization measures by the 7th day after construction activity temporarily or permanently ceased is precluded by snow cover or frozen ground conditions, stabilization measures shall be initiated as soon as practicable;

b. Where construction activity on a portion of the site is temporarily ceased, and earth-disturbing activities will be resumed within twenty-one (21) days, temporary stabilization measures need not be initiated on that portion of the site.

Sediment shall be removed from dewatering pits whenever their capacity has been reduced by approximately fifty (50) percent from the design capacity.

Silt Fence (All Phases)

A 20-inch high silt fence shall be placed along the down gradient edge of the site as shown on the plans. The purpose of the silt fencing is to reduce the runoff velocity and encourage deposition of any sediment before it leaves the site. The filter cloth shall be embedded securely in the ground as per the standard detail. Silt fencing shall be inspected regularly for fabric integrity, embedded depth and sediment accumulation. A silt fence shall also encircle temporary stockpile areas.

Construction Entrance – Driveway (All Phases)

Stabilized pads of aggregate underlain with filter fabric will be located at the site entrance to reduce or eliminate the tracking of sediment off-site. The structures thickness will be constantly maintained to the specified dimensions by adding rock. A stockpile of rock will be maintained on site for this purpose. At the end of each construction day, all sediment deposited

on public streets will be removed and returned to the site. Washing sediment into NYCDEP storm sewers is not permitted.

Temporary Stockpile (All Phases)

If needed, stockpiles shall be within the work area and encircled with a silt fence to prevent the spread of sediment from the stockpile to the rest of the site outside of the work area. The maximum slope for temporary stockpiles shall be 2 horizontal to 1 vertical. To the extent practicable, stockpiles shall be located at least 20 feet from fences, catch basins and site boundaries. Any temporary stockpile inactive for more than 14 days shall be stabilized or covered. Permanent stabilization shall be performed as soon as possible after completion of grading. In areas where soil disturbance activity has been temporarily or permanently ceased, temporary and/or permanent soil stabilization measures shall be installed and/or implemented within seven (7) days from the date the soil disturbance activity ceased.

Turbidity Curtains (All Phases)

Turbidity curtains are required for the entire duration of the project construction. The curtains to be installed and maintained in the East River at the perimeter of the zone of construction as a secondary measure to further prevent siltation of the River waters. If used trapped floatables shall be removed on a monthly basis.

Non-Stormwater Discharges

Possible sources of non-stormwater discharges associated with the construction activity that will contribute to water being discharged from the site are identified below. This SWPPP includes stormwater pollution prevention measures for the discharges.

1. Groundwater encountered within excavations is to be diverted to a temporary sediment basins and thence to the dewatering pits. Discharge to the River shall only be allowed in the following circumstances:

    a) that the water stored in the dewatering pits are free from contamination;

b) If groundwater volumes are in the form of tidally-driven in-flow in close proximity to the River, and at such in-flow rates that disposal to sedimentation basins is not practical;

c) Water removal is by means of pump-and-sump methods that feature a filter to minimize sediment transport; and,

d) In such circumstances, discharge shall be to the top of rip-rap slope, or to adjacent excavated areas behind stone seawalls not yet demolished, so as to allow for infiltration and filtering through the rocks and stone foundations, rather than actual direct discharge to the River waters.

2. Cleaning water for construction vehicles and equipment is to be diverted to the temporary sediment basins and thence to the dewatering pits. Chemicals and detergents are not to be used. The contractor is to coordinate with the RIOC for identifying areas on-site for construction vehicle transit (i.e. – haul roads, contractor trailers and parking and wash down areas, etc.) or equipment staging which are to be monitored and where runoff can be controlled.

3. Water used for dust control measures is to be applied using proper quantities and equipment. No chemical additives are to be used.

4. Water main flushing's, hydrostatic test water, fire test water, and chlorination test water are to be directed to the control measures on the site. Turbid water is to be detained to allow sufficient sedimentation time (minimum of 24 hours). Chlorinated water is to be detained until the water is de-chlorinated (minimum of 24 hours).

5. Concrete trucks are to only be washed out or to discharge surplus concrete or drum wash water in such a manner as to prevent pollution – laden water/stormwater from being discharged to the river.

Other Controls

Waste Disposal

Solid, sanitary and toxic waste must be disposed of in a proper manner in accordance with local, state and federal regulations. It is prohibited to burn, bury or pour out onto ground or into the storm sewers any solvents, paints, stains, gasoline, diesel fuel, used motor oil, hydraulic fluid, anti-freeze, cement curing compounds, or other toxic or hazardous wastes. Wash out of cement trucks should occur in a designated diked area where the washings can be collected and disposed of properly when they harden. Contractor shall be responsible for proper disposal of all waste off site. All waste disposals should be handled in such a manner as to prevent pollution –laden water/stormwater from being discharged to the river.

Dust Control

Generation of dust shall be minimized by limiting the extent of exposed soils and re-establishing vegetative cover in these areas as soon as possible. Additional and/or temporary methods to minimize dust may include wetting, mulching, spray adhesives, stone covering, and wind barriers.

Inspections/Reporting

Contractor Maintenance Inspection Requirements

The owner or operator shall have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor shall begin implementing corrective actions within one business day and shall complete the corrective actions in a reasonable time frame.

Qualified Inspector Inspection Requirements

Unless otherwise notified by the NYSDEC, the owner or operator shall have a *qualified inspector* conduct site inspection in accordance with the permit requirements; for site with on-going soil disturbance activities, a *qualified inspector* shall conduct a site inspection at least once every seven (7) calendar days. The *qualified inspector* shall prepare an inspection report

subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:

1. Date and time of inspection;
2. Name and title of person(s) performing inspection;
3. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of inspection;
4. A description of the condition of the runoff at all points of discharge from the construction site. This shall include identification of any discharges of sediment from the construction site. Include discharges from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;
5. Identification of all erosion and sediment control practices that need repair or maintenance;
6. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;
7. Description and sketch of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection;
8. Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards;
9. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s);
10. Identification and status of all corrective actions that were required by previous inspection; and
11. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The qualified inspector shall attach paper color copies of the digital

photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The qualified inspector shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The qualified inspector shall attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.

The contractor shall maintain a record of all inspection reports in a site log book (See Appendix I – Inspection Reports). The site log book shall be maintained on site and be made available to the permitting authority upon request. The contractor shall post at the site in a publicly-accessible location, a summary of the site inspection activities on a monthly basis. The contractor shall prepare a written summary confirming its compliance with the SWPPP at a minimum frequency of every month.

Prior to filing of the Notice of Termination or the end of permit term, the contractor shall have the qualified inspector perform a final site inspection. The qualified inspector shall certify that all disturbed areas have achieved final stabilization; and all temporary, structural erosion and sediment control measures have been removed; and that all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice" certification statements on the NOT.

Installation and Maintenance

The Contractor shall be responsible for the installation and maintenance of all temporary erosion control measures. The Contractor shall also be responsible for the installation of permanent control measures. The Operator shall be responsible for the maintenance of all permanent control measures.

All temporary erosion control measures installed on the project site shall be observed and maintained to ensure that they are operating as intended as follows:

1. Temporary measures will be inspected by the Contractor once a week. Any necessary repairs, replacements, or upgrades will be made immediately.
2. Accumulated sediments will be removed as required to keep the measures functional. In the case of silt fencing and hay bales (if applicable), remove deposits where accumulations reach ½ the height of the fence or bale. In the case of sediment basins, remove deposits whenever their capacity has been reduced by fifty percent (50%) from the design capacity.
3. All erosion of the silt fence will be repaired immediately with compacted backfill materials.
4. Disturbed areas, stockpile areas, areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system or downstream.
5. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.
6. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.
7. The permanent storm drainage system shall be inspected and cleaned of all sediment prior to the completion of project.

CONTRACTOR RESPONSIBILITY

The owner/operator, Roosevelt Island Operations Corporation (RIOC), is responsible for ensuring all contractors and subcontractors associated with sitework construction activities identified within this SWPPP agree to implement applicable provisions of the SWPPP and sign a copy of the Contractor's certification statement (See Appendix F – Contractor's Certification Statement) before construction commences.

SWPPP CERTIFICATION STATEMENT

The owner/operator of the project for the purpose of this permit is Roosevelt Island Operations Corporation (RIOC). The owner/operator must sign a copy of the Owner's/Operator certification statement (See Appendix G – Owner's Certification Statement) before the Notice of Intent (NOI) can be submitted (See Appendix A – Notice of Intent). If the electronic NOI is submitted by the SWPPP preparer then the SWPPP Preparer Form must be filled out prior to submitting the electronic NOI.

RETENTION OF RECORDS

The owner/operator, Roosevelt Island Operations Corporation (RIOC), must keep the SWPPP current so that it at all times accurately documents the erosion and sediment controls practices that are being used or will be used during construction, and all post-construction stormwater management practices that will be constructed on the site. At a minimum, the owner or operator shall amend the SWPPP:

1. Whenever the current provisions prove to be ineffective in minimizing pollutants in stormwater discharges from the site;

2. Whenever there is a change in design, construction, or operation at the construction site that has or could have an effect on the discharge of pollutants; and

3. To address issues or deficiencies identified during an inspection by the qualified inspector, the Department or other regulatory authority.

The owner/operator, Roosevelt Island Operations Corporation (RIOC),, shall retain a copy of the most current SWPPP at the construction site from the date construction is initiated at the site until the date construction at the site is completed and the Notice of Termination is submitted.

The owner/operator, Roosevelt Island Operations Corporation (RIOC), shall retain a copy of the NOI, NOI Acknowledgment Letter, SWPPP, and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the site achieves final stabilization unless NYSDEC specifies another time period in writing.

Once work is completed, Roosevelt Island Operations Corporation shall submit to NYSDEC a Notice of Termination (see Appendix J).

FIGURES

Map reference: Aerial Imagery Provided By ESRI World Imagery Basemap (2016)

LANGAN
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001-2727
T: 212.479.5400 F: 212.479.5444 www.langan.com

Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
Langan International LLC

Collectively known as Langan

Project
SOUTHPOINT OPEN SPACE PARK
RIP-RAP REVETMENT
ROOSEVELT ISLAND NEW YORK

Drawing Title
SITE LOCATION MAP

Project No.	100332701
Date	01/13/2020
Scale	1"= 150'
Drawn By	MWen
Submission Date	

Figure 1

Path: \\langan.com\data\PAR\data7\100332701\ArcGIS\ArcMap_Documents\NYSDEC + USACE 2018\Site Aerial Photograph.mxd

Map reference: Aerial Imagery Provided By ESRI World Imagery Basemap; NYSDEC Tidal Wetlands GIS Data (2018)

LANGAN
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001-2727
T: 212.479.5400 F: 212.479.5444 www.langan.com

Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
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Project
SOUTHPOINT OPEN SPACE PARK
RIP-RAP REVETMENT
ROOSEVELT ISLAND NEW YORK

Drawing Title
NYSDEC TIDAL WETLANDS MAP

Project No.	100332701
Date	01/13/2020
Scale	1"= 750'
Drawn By	IHB
Submission Date	
Figure	2

Path: \\langan.com\data\PAR\data7\100332701\ArcGIS\ArcMap_Documents\NYSDEC + USACE 2018\NYSDEC Tidal Wetlands Map_Jan20.mxd

APPENDIX A
NOTICE OF INTENT

0644089821

NOTICE OF INTENT

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

NYR ☐☐☐☐☐☐
(for DEC use only)

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-15-002

All sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

-IMPORTANT-
RETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR MUST SIGN FORM

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)

Owner/Operator Contact Person Last Name (NOT CONSULTANT)

Owner/Operator Contact Person First Name

Owner/Operator Mailing Address

City

State ☐☐ Zip ☐☐☐☐☐ - ☐☐☐☐

Phone (Owner/Operator) ☐☐☐ - ☐☐☐ - ☐☐☐☐

Fax (Owner/Operator) ☐☐☐ - ☐☐☐ - ☐☐☐☐

Email (Owner/Operator)

FED TAX ID ☐☐ - ☐☐☐☐☐☐☐ (not required for individuals)

Project Site Information

Project/Site Name

Street Address (NOT P.O. BOX)

Side of Street
○ **North** ○ **South** ○ **East** ○ **West**

City/Town/Village (THAT ISSUES BUILDING PERMIT)

State N Y Zip - County DEC Region

Name of Nearest Cross Street

Distance to Nearest Cross Street (Feet)

Project In Relation to Cross Street
○ **North** ○ **South** ○ **East** ○ **West**

Tax Map Numbers
Section-Block-Parcel

Tax Map Numbers

1. Provide the Geographic Coordinates for the project site in NYTM Units. To do this you **must** go to the NYSDEC Stormwater Interactive Map on the DEC website at:

www.dec.ny.gov/imsmaps/stormwater/viewer.htm

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located your project site, go to the tool boxes on the top and choose "i"(identify). Then click on the center of your site and a new window containing the X, Y coordinates in UTM will pop up. Transcribe these coordinates into the boxes below. For problems with the interactive map use the help function.

X Coordinates (Easting)

Y Coordinates (Northing) 4

2. What is the nature of this construction project?

○ **New Construction**

○ **Redevelopment with increase in impervious area**

○ **Redevelopment with no increase in impervious area**

3. Select the predominant land use for both pre and post development conditions.
SELECT ONLY ONE CHOICE FOR EACH

Pre-Development Existing Land Use

- ○ FOREST
- ○ PASTURE/OPEN LAND
- ○ CULTIVATED LAND
- ○ SINGLE FAMILY HOME
- ○ SINGLE FAMILY SUBDIVISION
- ○ TOWN HOME RESIDENTIAL
- ○ MULTIFAMILY RESIDENTIAL
- ○ INSTITUTIONAL/SCHOOL
- ○ INDUSTRIAL
- ○ COMMERCIAL
- ○ ROAD/HIGHWAY
- ○ RECREATIONAL/SPORTS FIELD
- ○ BIKE PATH/TRAIL
- ○ LINEAR UTILITY
- ○ PARKING LOT
- ○ OTHER

Post-Development Future Land Use

- ○ SINGLE FAMILY HOME
- ○ SINGLE FAMILY SUBDIVISION — Number of Lots
- ○ TOWN HOME RESIDENTIAL
- ○ MULTIFAMILY RESIDENTIAL
- ○ INSTITUTIONAL/SCHOOL
- ○ INDUSTRIAL
- ○ COMMERCIAL
- ○ MUNICIPAL
- ○ ROAD/HIGHWAY
- ○ RECREATIONAL/SPORTS FIELD
- ○ BIKE PATH/TRAIL
- ○ LINEAR UTILITY (water, sewer, gas, etc.)
- ○ PARKING LOT
- ○ CLEARING/GRADING ONLY
- ○ DEMOLITION, NO REDEVELOPMENT
- ○ WELL DRILLING ACTIVITY *(Oil, Gas, etc.)
- ○ OTHER

***Note**: for gas well drilling, non-high volume hydraulic fractured wells only

4. In accordance with the larger common plan of development or sale, enter the total project site area; the total area to be disturbed; existing impervious area to be disturbed (for redevelopment activities); and the future impervious area constructed within the disturbed area. (Round to the nearest tenth of an acre.)

Total Site Area	**Total Area To Be Disturbed**	**Existing Impervious Area To Be Disturbed**	**Future Impervious Area Within Disturbed Area**
.	.	.	.

5. Do you plan to disturb more than 5 acres of soil at any one time? ○ **Yes** ○ **No**

6. Indicate the percentage of each Hydrologic Soil Group(HSG) at the site.

A	**B**	**C**	**D**
%	%	%	%

7. Is this a phased project? ○ **Yes** ○ **No**

8. Enter the planned start and end dates of the disturbance activities.

Start Date / / - **End Date** / /

9. Identify the nearest surface waterbody(ies) to which construction site runoff will discharge.

Name

9a. Type of waterbody identified in Question 9?

- ○ Wetland / State Jurisdiction On Site (Answer 9b)
- ○ Wetland / State Jurisdiction Off Site
- ○ Wetland / Federal Jurisdiction On Site (Answer 9b)
- ○ Wetland / Federal Jurisdiction Off Site
- ○ Stream / Creek On Site
- ○ Stream / Creek Off Site
- ○ River On Site
- ○ River Off Site
- ○ Lake On Site
- ○ Lake Off Site
- ○ Other Type On Site
- ○ Other Type Off Site

9b. How was the wetland identified?

- ○ Regulatory Map
- ○ Delineated by Consultant
- ○ Delineated by Army Corps of Engineers
- ○ Other (identify)

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-15-002? ○ **Yes** ○ **No**

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-15-002? ○ **Yes** ○ **No**

12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters? ○ **Yes** ○ **No**
If no, skip question 13.

13. Does this construction activity disturb land with no existing impervious cover and where the Soil Slope Phase is identified as an E or F on the USDA Soil Survey? ○ **Yes** ○ **No**
If Yes, what is the acreage to be disturbed?

.

14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area? ○ **Yes** ○ **No**

15. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)? ○ **Yes** ○ **No** ○ **Unknown**

16. What is the name of the municipality/entity that owns the separate storm sewer system?

17. Does any runoff from the site enter a sewer classified as a Combined Sewer? ○ **Yes** ○ **No** ○ **Unknown**

18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law? ○ **Yes** ○ **No**

19. Is this property owned by a state authority, state agency, federal government or local government? ○ **Yes** ○ **No**

20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.) ○ **Yes** ○ **No**

21. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book)? ○ **Yes** ○ **No**

22. Does this construction activity require the development of a SWPPP that includes the post-construction stormwater management practice component (i.e. Runoff Reduction, Water Quality and Quantity Control practices/techniques)? ○ **Yes** ○ **No**
If No, skip questions 23 and 27-39.

23. Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS Stormwater Management Design Manual? ○ **Yes** ○ **No**

24. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:

- ○ **Professional Engineer (P.E.)**
- ○ **Soil and Water Conservation District (SWCD)**
- ○ **Registered Landscape Architect (R.L.A)**
- ○ **Certified Professional in Erosion and Sediment Control (CPESC)**
- ○ **Owner/Operator**
- ○ **Other**

SWPPP Preparer

Contact Name (Last, Space, First)

Mailing Address

City

State Zip -

Phone - -

Fax - -

Email

SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-15-002. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First Name **MI**

Last Name

Signature

Date / /

25. Has a construction sequence schedule for the planned management practices been prepared? ○ Yes ○ No

26. Select **all** of the erosion and sediment control practices that will be employed on the project site:

Temporary Structural

- ○ Check Dams
- ○ Construction Road Stabilization
- ○ Dust Control
- ○ Earth Dike
- ○ Level Spreader
- ○ Perimeter Dike/Swale
- ○ Pipe Slope Drain
- ○ Portable Sediment Tank
- ○ Rock Dam
- ○ Sediment Basin
- ○ Sediment Traps
- ○ Silt Fence
- ○ Stabilized Construction Entrance
- ○ Storm Drain Inlet Protection
- ○ Straw/Hay Bale Dike
- ○ Temporary Access Waterway Crossing
- ○ Temporary Stormdrain Diversion
- ○ Temporary Swale
- ○ Turbidity Curtain
- ○ Water bars

Biotechnical

- ○ Brush Matting
- ○ Wattling

Vegetative Measures

- ○ Brush Matting
- ○ Dune Stabilization
- ○ Grassed Waterway
- ○ Mulching
- ○ Protecting Vegetation
- ○ Recreation Area Improvement
- ○ Seeding
- ○ Sodding
- ○ Straw/Hay Bale Dike
- ○ Streambank Protection
- ○ Temporary Swale
- ○ Topsoiling
- ○ Vegetating Waterways

Permanent Structural

- ○ Debris Basin
- ○ Diversion
- ○ Grade Stabilization Structure
- ○ Land Grading
- ○ Lined Waterway (Rock)
- ○ Paved Channel (Concrete)
- ○ Paved Flume
- ○ Retaining Wall
- ○ Riprap Slope Protection
- ○ Rock Outlet Protection
- ○ Streambank Protection

Other

Post-construction Stormwater Management Practice (SMP) Requirements

Important: Completion of Questions 27-39 is not required if response to Question 22 is No.

27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.

- ○ **Preservation of Undisturbed Areas**
- ○ **Preservation of Buffers**
- ○ **Reduction of Clearing and Grading**
- ○ **Locating Development in Less Sensitive Areas**
- ○ **Roadway Reduction**
- ○ **Sidewalk Reduction**
- ○ **Driveway Reduction**
- ○ **Cul-de-sac Reduction**
- ○ **Building Footprint Reduction**
- ○ **Parking Reduction**

27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6("Soil Restoration") of the Design Manual (2010 version).

- ○ All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).

- ○ Compacted areas were considered as impervious cover when calculating the **WQv Required**, and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.

28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout).

Total WQv Required

			.			
			.			**acre-feet**

29. Identify the RR techniques (Area Reduction), RR techniques(Volume Reduction) and Standard SMPs with RRv Capacity in Table 1 (See Page 9) that were used to reduce the Total WQv Required(#28).

Also, provide in Table 1 the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

Note: Redevelopment projects shall use Tables 1 and 2 to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to reduce the required WQv, skip to question 33a after identifying the SMPs.

Table 1 - Runoff Reduction (RR) Techniques and Standard Stormwater Management Practices (SMPs)

	Total Contributing Area (acres)		Total Contributing Impervious Area(acres)
RR Techniques (Area Reduction)			
○ Conservation of Natural Areas (RR-1)	___.___	and/or	___.___
○ Sheetflow to Riparian Buffers/Filters Strips (RR-2)	___.___	and/or	___.___
○ Tree Planting/Tree Pit (RR-3)	___.___	and/or	___.___
○ Disconnection of Rooftop Runoff (RR-4)	___.___	and/or	___.___
RR Techniques (Volume Reduction)			
○ Vegetated Swale (RR-5)			___.___
○ Rain Garden (RR-6)			___.___
○ Stormwater Planter (RR-7)			___.___
○ Rain Barrel/Cistern (RR-8)			___.___
○ Porous Pavement (RR-9)			___.___
○ Green Roof (RR-10)			___.___
Standard SMPs with RRv Capacity			
○ Infiltration Trench (I-1)			___.___
○ Infiltration Basin (I-2)			___.___
○ Dry Well (I-3)			___.___
○ Underground Infiltration System (I-4)			___.___
○ Bioretention (F-5)			___.___
○ Dry Swale (O-1)			___.___
Standard SMPs			
○ Micropool Extended Detention (P-1)			___.___
○ Wet Pond (P-2)			___.___
○ Wet Extended Detention (P-3)			___.___
○ Multiple Pond System (P-4)			___.___
○ Pocket Pond (P-5)			___.___
○ Surface Sand Filter (F-1)			___.___
○ Underground Sand Filter (F-2)			___.___
○ Perimeter Sand Filter (F-3)			___.___
○ Organic Filter (F-4)			___.___
○ Shallow Wetland (W-1)			___.___
○ Extended Detention Wetland (W-2)			___.___
○ Pond/Wetland System (W-3)			___.___
○ Pocket Wetland (W-4)			___.___
○ Wet Swale (O-2)			___.___

Table 2 - Alternative SMPs (DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)

Alternative SMP	Total Contributing Impervious Area(acres)
○ **Hydrodynamic**	
○ **Wet Vault**	
○ **Media Filter**	
○ **Other**	

Provide the name and manufacturer of the Alternative SMPs (i.e. proprietary practice(s)) being used for WQv treatment.

Name

Manufacturer

Note: Redevelopment projects which do not use RR techniques, shall use questions 28, 29, 33 and 33a to provide SMPs used, total WQv required and total WQv provided for the project.

30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29.

Total RRv provided

. **acre-feet**

31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28).

○ **Yes** ○ **No**

If Yes, go to question 36.
If No, go to question 32.

32. Provide the Minimum RRv required based on HSG.
[Minimum RRv Required = (P)(0.95)(Ai)/12, Ai=(S)(Aic)]

Minimum RRv Required

. **acre-feet**

32a. Is the Total RRv provided (#30) greater than or equal to the Minimum RRv Required (#32)?

○ **Yes** ○ **No**

If Yes, go to question 33.
Note: Use the space provided in question #39 to summarize the specific site limitations and justification for not reducing 100% of WQv required (#28). A detailed evaluation of the specific site limitations and justification for not reducing 100% of the WQv required (#28) must also be included in the SWPPP.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

33. Identify the Standard SMPs in Table 1 and, if applicable, the Alternative SMPs in Table 2 that were used to treat the remaining total WQv(=Total WQv Required in 28 - Total RRv Provided in 30).

Also, provide in Table 1 and 2 the total impervious area that contributes runoff to each practice selected.

Note: Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.

33a. Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRv Capacity identified in question 29.

WQv Provided

☐☐☐.☐☐☐ **acre-feet**

Note: For the standard SMPs with RRv capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice - RRv provided by the practice. (See Table 3.5 in Design Manual)

34. Provide the sum of the Total RRv provided (#30) and the WQv provided (#33a). ☐☐☐.☐☐☐

35. Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)? ○ **Yes** ○ **No**

If Yes, go to question 36.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

36. Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.

CPv Required

☐☐☐.☐☐☐ **acre-feet**

CPv Provided

☐☐☐.☐☐☐ **acre-feet**

36a. The need to provide channel protection has been waived because:

○ Site discharges directly to tidal waters or a fifth order or larger stream.

○ Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

37. Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (37a), if applicable.

Total Overbank Flood Control Criteria (Qp)

Pre-Development

☐☐☐.☐☐☐ **CFS**

Post-development

☐☐☐.☐☐☐ **CFS**

Total Extreme Flood Control Criteria (Qf)

Pre-Development

☐☐☐.☐☐☐ **CFS**

Post-development

☐☐☐.☐☐☐ **CFS**

37a. The need to meet the Qp and Qf criteria has been waived because:

- ○ Site discharges directly to tidal waters or a fifth order or larger stream.
- ○ Downstream analysis reveals that the Qp and Qf controls are not required

38. Has a long term Operation and Maintenance Plan for the post-construction stormwater management practice(s) been developed? ○ **Yes** ○ **No**

If Yes, Identify the entity responsible for the long term Operation and Maintenance

39. Use this space to summarize the specific site limitations and justification for not reducing 100% of WQv required(#28). (See question 32a) This space can also be used for other pertinent project information.

40. Identify other DEC permits, existing and new, that are required for this project/facility.

- ○ Air Pollution Control
- ○ Coastal Erosion
- ○ Hazardous Waste
- ○ Long Island Wells
- ○ Mined Land Reclamation
- ○ Solid Waste
- ○ Navigable Waters Protection / Article 15
- ○ Water Quality Certificate
- ○ Dam Safety
- ○ Water Supply
- ○ Freshwater Wetlands/Article 24
- ○ Tidal Wetlands
- ○ Wild, Scenic and Recreational Rivers
- ○ Stream Bed or Bank Protection / Article 15
- ○ Endangered or Threatened Species(Incidental Take Permit)
- ○ Individual SPDES
- ○ SPDES Multi-Sector GP [N][Y][R][ ][ ][ ][ ][ ][ ]
- ○ Other [ ]
- ○ None

41. Does this project require a US Army Corps of Engineers Wetland Permit? ○ **Yes** ○ **No**
If Yes, Indicate Size of Impact. [ ][ ][ ][ ][ ].[ ]

42. Is this project subject to the requirements of a regulated, traditional land use control MS4? ○ **Yes** ○ **No**
(If No, skip question 43)

43. Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI? ○ **Yes** ○ **No**

44. If this NOI is being submitted for the purpose of continuing or transferring coverage under a general permit for stormwater runoff from construction activities, please indicate the former SPDES number assigned. [N][Y][R][ ][ ][ ][ ][ ][ ]

Owner/Operator Certification

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name **MI**

Print Last Name

Owner/Operator Signature

Date / /

APPENDIX B
SITEWORK PLANS

REFER TO SHEET G-002 & SOIL MANAGEMENT PLAN TO SEE RIP-RAP REPLACEMENT NOTES

CUT AND FILL PARAMETERS SOUTH POINT SPACE PARK RIP-RAP REVETMENT
Cut Fill parameters referenced to Overall Project
Demolish and Stockpile existing Seawall Material = 1,000 CY Total Mass Grading Cut Volume = 10,000 CY Total Mass Grading Fill Volume = 1,000 CY Total Soil Removal Volume = 8,000 CY Total Rip-Rap Import = 4,300 CY (5,300 CY - 1,000 CY on-site material) Total Topsoil Import for Clean Cap = 3,100 CY
Cut Fill parameters referenced to below SHW
Total Cut Volume = 900 CY Total Fill Volume = 2,200 CY **Overall Net Fill Volume = 1,300 CY** Total Cut Area = 8,000 SF Total Fill Area = 20,000 SF **Overall Fill Area = 12,000 SF**
Cut Fill parameters referenced to below MHW
Total Cut Volume = 800 CY Total Fill Volume = 2,100 CY **Overall Net Fill Volume = 1,300 CY** Total Cut Area = 8,000 SF Total Fill Area = 19,900 SF **Overall Fill Area = 11,900 SF**

EAST RIVER (WEST CHANNEL)

SOUTHPOINT OPEN SPACE PARK

FORMER GOLDWATER HOSPITAL

SITE OF FUTURE CORNELL CAMPUS

FDR FOUR FREEDOMS PARK

SMALLPOX HOSPITAL

EAST RIVER (EAST CHANNEL)

TIDAL DATUM LEGEND		
	NAVD 88	ROOSEVELT/ BELMONT ISLAND DATUM
S.H.W.	+2.65±	+6.00±
M.H.H.W.	+2.15±	+5.50±
M.H.W.	+1.90±	+5.25±
MEAN TIDE LEVEL	- 0.35±	+3.00±
M.L.W.	- 2.60±	+0.75±
M.L.L.W.	- 2.85±	+0.50±
S.L.W. (SPRING)	- 3.35±	+0.00±

NOTES:
1. ACTUAL TIDAL LEVELS VARY FROM PREDICTED VALUES DUE TO INFLUENCE OF ATMOSPHERIC PRESSURE, WIND, AND CHANNELIZATION OF EAST RIVER.
2. TO CONVERT TO ROOSEVELT ISLAND DATUM FROM NAVD88 ADD 3.35 FEET.

SOURCE: TIDESANDCURRENTS.NOAA.ORG

GENERAL NOTES

SURVEY NOTES

1. THIS SURVEY IS BASED UPON EXISTING PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, AND THE FOLLOWING REFERENCES:
   A. "SEAWALL RECONSTRUCTION SOUTHPOINT OPEN SPACE PARK", PARTIAL TOPOGRAPHIC SURVEY, PROJECT NO.100332701, DATE 5/29/2013, DRAWING NO. VT100.
   B. HYDROGRAPHIC DATA SUPPLIED BY ROGERS SURVEYING, INC., JULY 6, 2018.
2. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO NY LONG ISLAND STATE PLANE SYSTEM NAD83.
3. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD88) BASED UPON GPS METHODS (SEE CONVERSION CHART).
4. PLANIMETRIC INFORMATION SHOWN HEREON HAS BEEN OBTAINED FROM GROUND SURVEYS BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY, D.P.C. DURING JULY 2018.

Date	Description	No.
1/8/20	SUBMISSION TO SBS	3.
5/29/19	SUBMISSION TO SBS	2.
2/20/19	SUBMISSION TO SBS	1.

REVISIONS

SIGNATURE DATE SIGNED
LEONARD D. SAVINO
PROFESSIONAL ENGINEER NY Lic. No. 090013-1

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com

Project: SOUTHPOINT OPEN SPACE PARK
RIP-RAP REVETMENT
SBS # 20193722
ROOSEVELT ISLAND NEW YORK

Drawing Title: SHORELINE PROTECTION PLAN

Project No. 100332702
Date 11/26/2018
Drawn By EAJ/VP
Checked By JF/JCO

Drawing No. C-100.00

PROJECT NO. 100332702

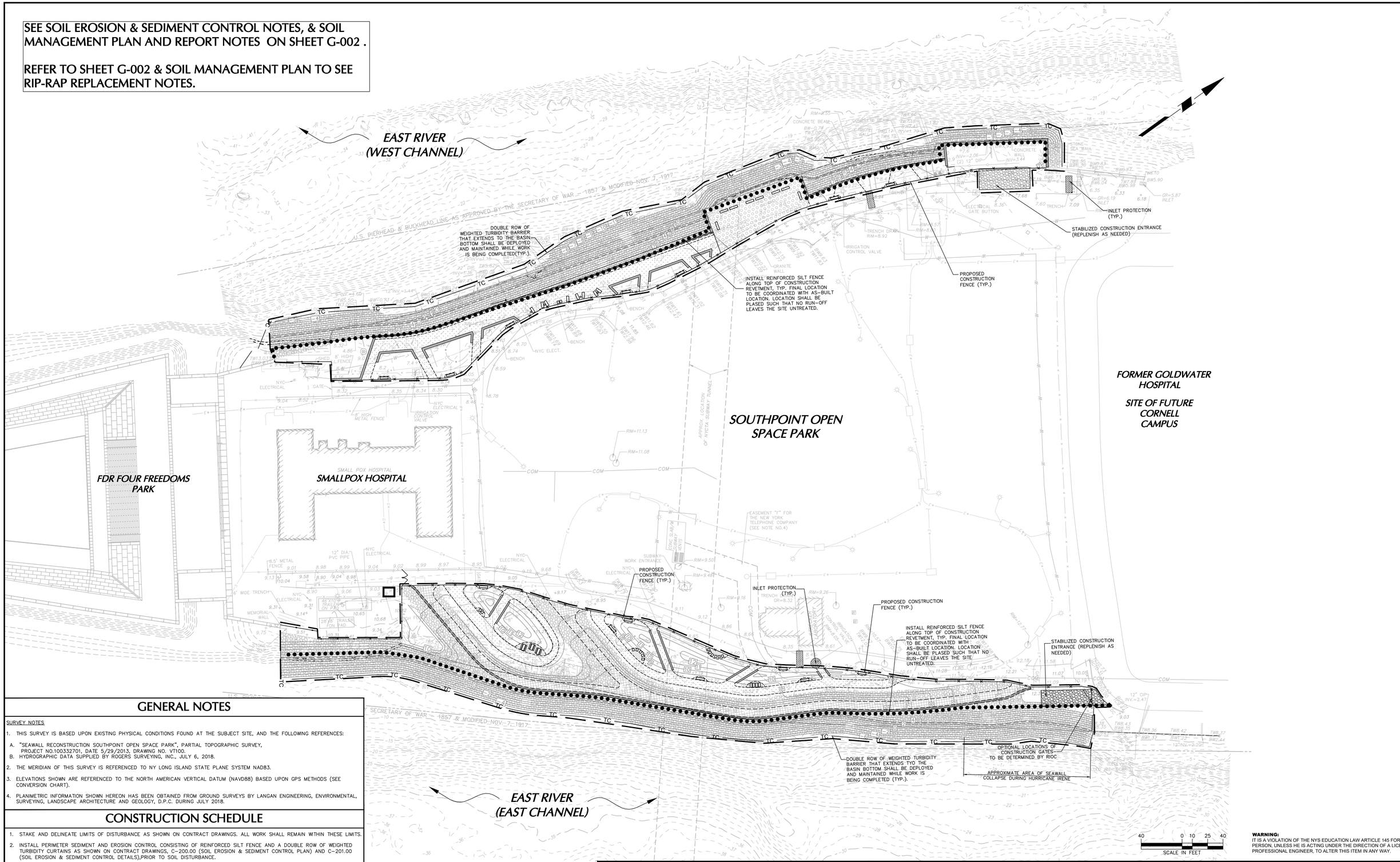
WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

SCALE IN FEET

Filename: \\langan.com\data\EP\data7\100332702\project data\CAD\02\sheetfiles\Construction Drawings\100332702-C-100.00.dwg Date: 1/8/2020 Time: 14:44 User: vpatel Style Table: Langan.stb Layout: 100332702-C-100.00

SEE SOIL EROSION & SEDIMENT CONTROL NOTES, & SOIL MANAGEMENT PLAN AND REPORT NOTES ON SHEET G-002 .

REFER TO SHEET G-002 & SOIL MANAGEMENT PLAN TO SEE RIP-RAP REPLACEMENT NOTES.



GENERAL NOTES

SURVEY NOTES

1. THIS SURVEY IS BASED UPON EXISTING PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, AND THE FOLLOWING REFERENCES:
   - A. "SEAWALL RECONSTRUCTION SOUTHPOINT OPEN SPACE PARK", PARTIAL TOPOGRAPHIC SURVEY, PROJECT NO.100332701, DATE 5/29/2013, DRAWING NO. VT100.
   - B. HYDROGRAPHIC DATA SUPPLIED BY ROGERS SURVEYING, INC., JULY 6, 2018.
2. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO NY LONG ISLAND STATE PLANE SYSTEM NAD83.
3. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD88) BASED UPON GPS METHODS (SEE CONVERSION CHART).
4. PLANIMETRIC INFORMATION SHOWN HEREON HAS BEEN OBTAINED FROM GROUND SURVEYS BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY, D.P.C. DURING JULY 2018.

CONSTRUCTION SCHEDULE

1. STAKE AND DELINEATE LIMITS OF DISTURBANCE AS SHOWN ON CONTRACT DRAWINGS. ALL WORK SHALL REMAIN WITHIN THESE LIMITS.
2. INSTALL PERIMETER SEDIMENT AND EROSION CONTROL CONSISTING OF REINFORCED SILT FENCE AND A DOUBLE ROW OF WEIGHTED TURBIDITY CURTAINS AS SHOWN ON CONTRACT DRAWINGS, C-200.00 (SOIL EROSION & SEDIMENT CONTROL PLAN) AND C-201.00 (SOIL EROSION & SEDIMENT CONTROL DETAILS),PRIOR TO SOIL DISTURBANCE.
3. DEMOLISH EXISTING FAILING STONE AND MASONRY SEAWALLS AND WALLS AS SHOWN ON CONTRACT DRAWINGS, DM-100.00 (DEMOLITION PLAN).
4. CONSTRUCT NEW RIP RAP REVETMENT. PROVIDE AND MAINTAIN INTERIM STABILIZATION, AS APPROPRIATE, OR WHERE INDICATED ON THE CONSTRUCTION DOCUMENTS. INTERIM STABILIZATION, INCLUDING TEMPORARY SEEDING, SHALL BE PLACED WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE WITHIN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY HAS CEASED.
5. FINAL-GRADE COMPLETED AREAS AND INSTALL PERMANENT LANDSCAPE STABILIZATION AS SHOWN ON CONTRACT DRAWING, L-100.00 (LANDSCAPE PLAN), L-101.00 (IRRIGATED AREA PLAN), L-110.00 (LANDSCAPE NOTES & DETAILS) AND L-111.00 (IRRIGATED DETAILS).
6. REMOVE EROSION AND SEDIMENTATION CONTROL MEASURES, FOLLOWING PERMANENT STABILIZATION.

Date	Description	No.
1/8/20	SUBMISSION TO SBS	3.
5/29/19	SUBMISSION TO SBS	2.
2/20/19	SUBMISSION TO SBS	1.

REVISIONS

SIGNATURE DATE SIGNED

LEONARD D. SAVINO
PROFESSIONAL ENGINEER NY Lic. No. 090013-1

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com

Project
SOUTHPOINT OPEN SPACE PARK
RIP-RAP REVETMENT
SBS # 20193722
ROOSEVELT ISLAND NEW YORK

Drawing Title
SOIL EROSION & SEDIMENT CONTROL PLAN

Project No. 100332702	Drawing No. C-200.00
Date 11/26/2018	
Drawn By EA/VP	
Checked By JF/JCO	

WARNING:
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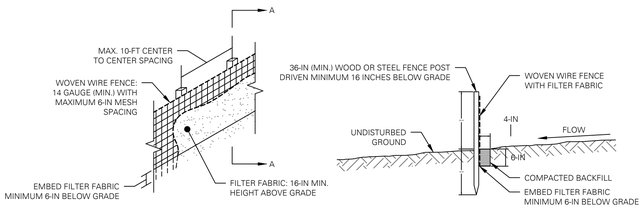
Filename: \\langan.com\data\EP\data7\100332702\project data\CAD\02\sheetfiles\Construction Drawings\100332702-C-200.00.dwg Date: 1/8/2020 Time: 14:50 User: vipatel Style Table: Langan.stb Layout: 100332702-C-700.00

LANGAN PROJECT NO. 100332702

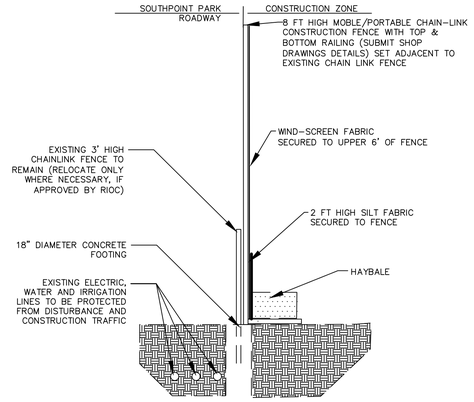


CUTAWAY VIEW SECTION A-A

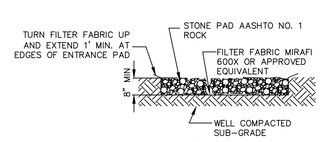
NOTES:

1. SECURELY FASTEN WOVEN WIRE FENCE TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE, OR HARDWOOD.
2. SECURELY FASTEN FILTER FABRIC TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT TOP AND MID SECTION.
3. FILTER FABRIC SHALL BE FILTER X, MIRAFI 100X, STABLINKA T140N, OR APPROVED EQUAL.
4. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED. MATERIAL SHALL BE REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH A DEPTH OF 6 INCHES OR GREATER.

1 REINFORCED SILT FENCE
NTS



2 SILT FENCE WITH CONSTRUCTION FENCE & WIND SCREEN
NTS



SECTION **PLAN**

1. STONE SIZE – USE 1–4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET
3. THICKNESS – NOT LESS THAN EIGHT (8) INCHES.
4. WIDTH – TWELVE FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

LOCATIONS:

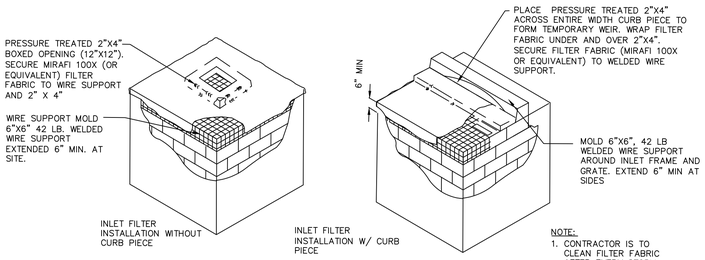
CONTRACTOR TO INSTALL THIS ITEM AT ALL ENTRANCE/EXIT POINTS TO SITE. SOIL EROSION AND SEDIMENT CONTROL PLAN INDICATES PROBABLE CONSTRUCTION ENTRANCE LOCATIONS. ACTUAL LOCATIONS TO BE PROPOSED BY CONTRACTOR AS PART OF STAGING PLAN, TO BE APPROVED BY RIOC.

MAINTENANCE:

THE STRUCTURES THICKNESS WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL WILL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING ROADWAY SEDIMENT INTO RIVER OR INTO SEWERS IS NOT PERMITTED.

3 ROCK CONSTRUCTION ENTRANCE
NTS

NOTE: ADAPT CONTROL MATERIALS TO MATCH INLET SHAPES.

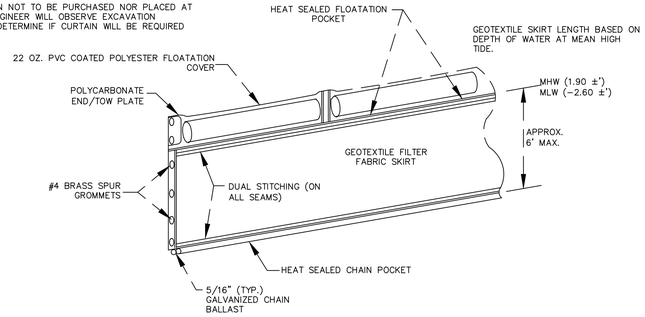


NOTE: THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.

NOTE:
1. CONTRACTOR IS TO CLEAN FILTER FABRIC AFTER EVERY STORM.
2. CONTRACTOR TO REMOVE FABRIC AND MESH JUST PRIOR TO PAVING.

4 INLET PROTECTION
NTS

NOTE:
TURBIDITY CURTAIN NOT TO BE PURCHASED NOR PLACED AT PRESENT TIME, ENGINEER WILL OBSERVE EXCAVATION CONDITIONS AND DETERMINE IF CURTAIN WILL BE REQUIRED



1. FLOTATION SIZE (6,8, OR 12" DIA.) DETERMINED BY SKIRT DEPTH AND SITE VARIABLES.
2. OPTIONAL TOP TENSION CABLE (5/16" TYP.) AVAILABLE FOR INCREASED STRENGTH.
3. END OF CURTAIN SHALL BE ANCHORED SECURELY AT THE SHORELINE AT OR ABOVE THE MHW ELEVATION IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
4. CONTRACTOR SHALL DEPLOY APPROXIMATE ANCHORS TO SUSTAIN SILT BOOM IN PLACE

5 TURBIDITY CURTAIN (SILT BOOM)-FOR DESIGN GUIDANCE ONLY TO PROTECT EXCAVATED FOUNDATION ZONES
NTS

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Date	Description	No.
1/8/20	SUBMISSION TO SBS	3.
5/29/19	SUBMISSION TO SBS	2.
2/20/19	SUBMISSION TO SBS	1.

REVISIONS

SIGNATURE DATE SIGNED
LEONARD D. SAVINO
PROFESSIONAL ENGINEER NY Lic. No. 090013-1

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com

Project
SOUTHPOINT OPEN SPACE PARK
RIP-RAP REVETMENT
SBS # 20193722
ROOSEVELT ISLAND NEW YORK

Drawing Title
SOIL EROSION & SEDIMENT CONTROL DETAILS

Project No. 100332702
Date 11/26/2018
Drawn By EA/VP
Checked By JF/CO

Drawing No. C-201.00

LANGAN
PROJECT NO. 100332702

Filename: \\langan.com\data\EPdata7\100332702\project data\CAD\02sheetfiles\Construction Drawings\100332702-C-201.00.dwg Date: 1/8/2020 Time: 14:51 User: vipatel Style Table: Langan.stb Layout: 100332702-C-301.00

APPENDIX C
PHASING PLANS

APPENDIX D
CONTRACTOR'S CONSTRUCTION SCHEDULE

APPENDIX E
CONTRACTOR ROSTER

APPENDIX F
CONTRACTOR CERTIFICATION STATEMENT

Contractor's Certification

"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I am aware that there are significant penalties for submitting false information that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations."

Contracting Firm Name _____

Address _____

Phone _____ **Fax** _____

Name (please print) _____

Title _____ **Date** _____

Signature _____

SWPPP Responsibilities _____

_____

_____

_____

Trained Individual Name (please print) _____

Title _____ **Date** _____

Signature _____

SWPPP Responsibilities _____

_____

_____

Note: All Contractors involved with Stormwater related activities shall sign a Contractor's Certification.

Subcontractor's Certification

"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I am aware that there are significant penalties for submitting false information that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations."

Subcontracting Firm Name _____

Address _____

Phone _____ **Fax** _____

Name (please print) _____

Title _____ **Date** _____

Signature _____

SWPPP Responsibilities _____

_____

_____

_____

Trained Individual Name (please print) _____

Title _____ **Date** _____

Signature _____

SWPPP Responsibilities _____

_____

_____

Note: All subcontractors involved with Stormwater related activities shall sign a Subcontractor's Certification.

APPENDIX G
OWNER'S CERTIFICATION STATEMENT

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Owner/Operator Certification Form

SPDES General Permit For Stormwater Discharges From Construction Activity (GP-0-15-002)

Project/Site Name: Southpoint Open Space Park

eNOI Submission Number: _____

eNOI Submitted by: ☑ **Owner/Operator** ☐ **SWPPP Preparer** ☐ **Other**

Certification Statement - Owner/Operator

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Owner/Operator First Name M.I. Last Name

_____

Signature

_____

Date

APPENDIX H
SWPP PREPARER CERTIFICATION STATEMENT

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges From Construction Activity (GP-0-15-002)

Project Site Information

Project/Site Name

Southpoint Open Space Park

Owner/Operator Information

Owner/Operator (Company Name/Private Owner/Municipality Name)

Roosevelt Island Operating Corporation

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-15-002. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Leonard	D.	Savino
First name	MI	Last Name

STATE OF NEW YORK · LEONARD D. SAVINO · 090013-1 · LICENSED PROFESSIONAL ENGINEER

Signature

1·13·20

Date

Revised: April 2015

APPENDIX I
INSPECTION REPORTS

APPENDIX J
NOTICE OF TERMINATION

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505
(NOTE: Submit completed form to address above)

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity

Please indicate your permit identification number: NYR ___ ___ ___ ___ ___ ___

I. Owner or Operator Information

1. Owner/Operator Name:

2. Street Address:

3. City/State/Zip:

4. Contact Person: | 4a.Telephone:

4b. Contact Person E-Mail:

II. Project Site Information

5. Project/Site Name:

6. Street Address:

7. City/Zip:

8. County:

III. Reason for Termination

9a. □ All disturbed areas have achieved final stabilization in accordance with the general permit and SWPPP. ***Date final stabilization completed** (month/year): _____

9b. □ Permit coverage has been transferred to new owner/operator. Indicate new owner/operator's permit identification number: NYR ___ ___ ___ ___ ___ ___
(Note: Permit coverage can not be terminated by owner identified in I.1. above until new owner/operator obtains coverage under the general permit)

9c. □ Other (Explain on Page 2)

IV. Final Site Information:

10a. Did this construction activity require the development of a SWPPP that includes post-construction stormwater management practices? □ yes □ no (If no, go to question 10f.)

10b. Have all post-construction stormwater management practices included in the final SWPPP been constructed? □ yes □ no (If no, explain on Page 2)

10c. Identify the entity responsible for long-term operation and maintenance of practice(s)?

_____

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity - continued

10d. Has the entity responsible for long-term operation and maintenance been given a copy of the operation and maintenance plan required by the general permit? □ yes □ no

10e. Indicate the method used to ensure long-term operation and maintenance of the post-construction stormwater management practice(s):

□ Post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain practice(s) have been deeded to the municipality.

□ Executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s).

□ For post-construction stormwater management practices that are privately owned, a mechanism is in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the owner or operator's deed of record.

□ For post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university or hospital), government agency or authority, or public utility; policy and procedures are in place that ensures operation and maintenance of the practice(s) in accordance with the operation and maintenance plan.

10f. Provide the total area of impervious surface (i.e. roof, pavement, concrete, gravel, etc.) constructed within the disturbance area? _____ (acres)

11. Is this project subject to the requirements of a regulated, traditional land use control MS4? □ yes □ no

(If Yes, complete section VI - "MS4 Acceptance" statement

V. Additional Information/Explanation:

(Use this section to answer questions 9c. and 10b., if applicable)

VI. MS4 Acceptance - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative (Note: Not required when 9b. is checked -transfer of coverage)

I have determined that it is acceptable for the owner or operator of the construction project identified in question 5 to submit the Notice of Termination at this time.

Printed Name:

Title/Position:

Signature:	Date:

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the SPDES General Permit for Construction Activity - continued

VII. Qualified Inspector Certification - Final Stabilization:

I hereby certify that all disturbed areas have achieved final stabilization as defined in the current version of the general permit, and that all temporary, structural erosion and sediment control measures have been removed. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:	
Title/Position:	
Signature:	Date:

VIII. Qualified Inspector Certification - Post-construction Stormwater Management Practice(s):

I hereby certify that all post-construction stormwater management practices have been constructed in conformance with the SWPPP. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:	
Title/Position:	
Signature:	Date:

IX. Owner or Operator Certification

I hereby certify that this document was prepared by me or under my direction or supervision. My determination, based upon my inquiry of the person(s) who managed the construction activity, or those persons directly responsible for gathering the information, is that the information provided in this document is true, accurate and complete. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:	
Title/Position:	
Signature:	Date:

(NYS DEC Notice of Termination - January 2015)