

STORMWATER MAINTENANCE MANUAL

FOR THE

**MEMORIAL PARK DIAMONDS 3 AND 4
MULTI-USE FIELD IMPROVEMENTS**

BLOCK 199 - LOT 1

BOROUGH OF RUTHERFORD
BERGEN COUNTY, NEW JERSEY

OCTOBER 8, 2024

NEGLIA PROJECT No.: RUTHMUN24.012



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CERTIFICATE OF AUTHORIZATION (N.J.S.A. 45:8-56) 24GA27927000

A handwritten signature in blue ink, appearing to read 'Brian A. Intindola', is positioned above a horizontal line.

Brian A. Intindola, P.E.
New Jersey Professional Engineer
License No. 41947

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Appendix A Stormwater Conveyance System Plans and Details

Project Background

The Memorial Park Diamonds 3 and 4 (“the project”) is located at the western dead end of Monona Avenue in the Borough of Rutherford, Bergen County, New Jersey. The project area currently consists of two baseball/softball fields with additional site amenities including bleachers located on concrete pads, player benches, asphalt pavement, fencing and a maintained lawn area.

The subject property is further identified as Block 199, Lot 1 in Rutherford, New Jersey 07070. The total disturbance area associated with the project area is approximately 350,653 square feet (8.05 acres). It shall be noted that this disturbance area does not include areas that will be milled and re-paved as part of the overall improvements as per the definition of “disturbance” within NJAC 7:8, areas which will be milled and re-paved are not included within the disturbance area since bedrock and/or soil will not be exposed.

The scope of work this project consists of the construction of a new asphalt walkways, installation of an artificial turf field, furnishing and installing fencing and site amenities (benches, dugout shelters, installation of spectator bleachers, etc.), grading improvements, drainage improvements, landscaping and lawn installation.

The proposed stormwater infrastructure will consist of a network of inlets, manholes, and conveyance piping that will tie into existing municipal drainage system underneath the site location and located within Monona Avenue. It shall be noted that under the existing conditions, the project area ultimately discharges the Passaic River via the existing Municipal drainage system located within Monona Avenue or will sheet flow directly into the river and will continue to do so under the proposed conditions.

Per NJAC 7:8, the project is considered to be a “major development,” due to the disturbance of over one (1) acre of land. As such, this maintenance plan has been prepared to ensure adequate compliance with the maintenance guidelines for stormwater management measures established within the New Jersey Stormwater Best Management Practices Manual. This maintenance plan contains specific preventative maintenance tasks and schedules; cost estimates, including estimated cost of sediment, debris, or trash removal; and the name, address, and telephone number of the person or persons responsible for preventative and corrective maintenance (including replacement).

Party Responsible for Maintenance

The proposed improvements will be constructed by the Borough of Rutherford. The party responsible for the preventative and corrective maintenance of the proposed stormwater measures described herein is:

Name: **Borough of Rutherford Department of Public Works**
Attn.: **Christopher Seidler, DPW Superintendent**
Address: **220 Highland Cross**
Rutherford, New Jersey 07070
Phone: **(201) 460-3000 ext. 4000**
E-mail: **cseidler@rutherfordboronj.com**

Stormwater Maintenance Objective

The stormwater systems proposed for this project are intended to collect, convey, and attenuate stormwater runoff generated by the proposed improvements. This maintenance plan was prepared to ensure the systems in-place are operating safely and efficiently. The responsible party shall ensure the

long-term/perpetual operation, maintenance, repair, and safety of the stormwater management facilities. In the event that a stormwater management facility becomes a danger to public safety or public health, or if it is in need of maintenance, the responsible party noted above shall take immediate corrective action, to remove the danger.

Maintenance procedures are required to maintain the intended operation and safe condition of the stormwater management facilities by reducing the occurrence of problems and malfunctions. To be effective, maintenance shall be performed on a regular basis and include such routine procedures as training of staff, periodic inspections, silt and debris removal and disposal, upkeep of moving parts, control of mosquitoes and other insects, and review of maintenance and inspection work to identify where the maintenance program could be more effective.

Repair procedures are required to correct a problem or malfunction at a stormwater management facility and to restore the facility's intended operation and safe condition. Based upon the severity of the problem, repairs shall be performed on an as-needed or emergency basis and include such procedures as structural repairs, mosquito control, removal of debris, sediment and trash which threaten discharge capacity, erosion repair, snow and ice removal, fence repair, and restoration of vegetation.

In the event that the stormwater management facility becomes a danger to public safety or public health, or if it is in need of maintenance, the responsible party noted above will have fourteen (14) days to initiate maintenance and repair of the facility in a manner that is approved by the municipal engineer or its designee.

Maintenance of Conveyance Systems

The proposed conveyance systems have been designed with either removable manhole covers, inlet grates, or cleanouts to provide adequate access for inspection and/or maintenance. The use of the proposed conveyance systems is consistent with the community's surroundings for this area.

All proposed conveyance systems including inlets, manholes, the headwall and associated scour hole, cleanouts, and pipes (including turf header pipes) are expected to receive and/or accumulate debris and sediment. These systems must be inspected for clogging and excessive debris and sediment accumulation at least four (4) times annually, as well as after every storm event exceeding two (2) inches of rainfall. Sediment removal should take place when all runoff has drained from the conveyance network and the systems are reasonably dry. Disposal of debris, trash, sediment, and other waste material shall be done at suitable disposal/recycling sites and in compliance with all applicable local, state, and federal waste regulations.

All structural components, specifically the proposed manhole, must be inspected for cracking, subsidence, breaching, wearing, and deterioration at least annually and after any significant rainstorm event. The condition of surrounding and above lying materials shall be inspected for evidence of potential failures or deterioration. The party responsible for maintenance shall comply with the manufacturer's installation, operation and maintenance manual include within this maintenance plan (Appendix B).

Two (2) people will be needed to perform routine maintenance of the conveyance systems. The routine equipment expected to be utilized for the maintenance tasks include, but are not limited to, a jet vacuum vehicle, shovels, lighting equipment and a wheel barrel or truck for the debris hauling. Water, mosquito control chemicals, and concrete repair materials may also be required depending on the structure's condition. No manufacturer's instructions or user manuals are available for these components.

**MAINTENANCE LOG
STORMWATER CONVEYANCE SYSTEMS**

Instructions: This log shall be updated to include all maintenance performed at a specific stormwater management measure.

**MEMORIAL PARK DIAMONDS 3 AND 4 MULTI-USE FIELD
(BLOCK 199 - LOT 1)
BOROUGH OF RUTHERFORD, BERGEN COUNTY, NEW JERSEY**

DATE	PERSON CONDUCTING MAINTENANCE	AREA OF MAINTENANCE	PROBLEM(S) FOUND	ACTION(S) TAKEN

INSPECTION AND MAINTENANCE CHECKLIST

STORMWATER CONVEYANCE SYSTEM

MEMORIAL PARK DIAMONDS 3 AND 4 MULTI-USE FIELD

(BLOCK 199 - LOT 1)

BOROUGH OF RUTHERFORD, BERGEN COUNTY, NEW JERSEY

Note: inspections to be evaluated during a period of dry and warm weather and low tide (if applicable) conditions at the project site

Yes	No	Maintenance Evaluation	Action(s) Required if Answer "Yes"
<input type="checkbox"/>	<input type="checkbox"/>	Is there a buildup of sediment (in excess of 2 inches), trash, debris or any other stormwater pollution?	Remove sediment and evaluate on-site upstream systems. Dispose debris in accordance with local, state and federal requirements.
<input type="checkbox"/>	<input type="checkbox"/>	Is there Standing water?	Evaluate downstream systems for clogging or trash sediment buildup.
<input type="checkbox"/>	<input type="checkbox"/>	Is there any structural failure?	Consult engineer to determine safety and/or stability of the system.
<input type="checkbox"/>	<input type="checkbox"/>	Are there visible signs of cracking, subsidence, erosion or deterioration of any of the storm conveyance systems?	Consult engineer to determine safety and/or stability of the system.
<input type="checkbox"/>	<input type="checkbox"/>	Are there any root intrusions or any other vegetation within catch basins, outlet control structures or storm manholes?	Remove roots and dispose vegetation in accordance with local, state and federal regulations.
<input type="checkbox"/>	<input type="checkbox"/>	Are ladder rungs in manholes or outlet structures damaged, missing or misaligned?	Repair or replace.
<input type="checkbox"/>	<input type="checkbox"/>	Is there a buildup of sediment, trash, debris, leaves or any other pollution clogging conveyance of stormwater.	Remove all pollution.
<input type="checkbox"/>	<input type="checkbox"/>	Is the outlet structure conveying stormwater to the proposed outlet pipe and downstream system	Evaluate outlet structure for clogging or trash sediment buildup and clean/remove any obstructions
<input type="checkbox"/>	<input type="checkbox"/>	Are any covers or grates missing, damaged or only partially in place at any catch basin, outlet control structure or manhole?	Repair or replace.