

South County Hospital Off-Site Surface Parking

South Kingstown,
Rhode Island

PREPARED FOR

SC Hospital Healthcare Systems
100 Kenyon Avenue
Wakefield, RI 02879

PREPARED BY



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1

Long Term Stormwater Operation and Maintenance Measures

Owner/Operator Responsible for Operation and Maintenance

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Maintenance of Stormwater Systems

The following maintenance program shall ensure the continued effectiveness of the structural water quantity and quality controls shown on the project Site Plans prepared by VHB. Refer to the attached Operation and Maintenance Location Plan.

Pavement Systems

Regular Asphalt Pavement

- › Sealants for asphalt pavement are a major source of polycyclic aromatic hydrocarbons (PAHs) in our environment. Asphalt based sealants are allowed. Coal-tar based sealants are not allowed.

- › Sweep or vacuum standard asphalt pavement areas at least once per year with a commercial cleaning unit and properly dispose of removed material.
- › More frequent sweeping of paved surfaces will result in less accumulation in catchment areas, less cleaning of subsurface structures, and less disposal costs.

Structural Stormwater Management Devices

Deep Sump Hooded Catch Basins and Outlet Control Structures

- › Do not weld grates to frame to ease inspection and maintenance of sumps.
- › Inspect the unit post construction, prior to being placed into service and ensure unit is clean and free of any structural damage.
- › Inspect quarterly for the first year to determine the oil and sediment accumulation rate.
- › Inspect twice a year in the spring and fall.
- › Clean annually and whenever the depth of sediment is greater than or equal to half the sump depth.
- › Inspect the units immediately after an oil, fuel or chemical spill.
- › A licensed waste management company should remove oil and sediment and dispose per state and local regulations.

Drain Manhole

- › Do not weld grates to frame to ease inspection and maintenance of sumps.
- › Inspect the unit post construction, prior to being placed into service and ensure unit is clean and free of any structural damage.
- › Inspect quarterly for the first year to determine the oil and sediment accumulation rate.
- › Inspect twice a year in the spring and fall.
- › Clean annually and whenever the depth of sediment is greater than or equal to half the sump depth.
- › Inspect the units immediately after an oil, fuel or chemical spill.
- › A licensed waste management company should remove oil and sediment and dispose per state and local regulations.
- ›

Subsurface Infiltration System

- › The subsurface infiltration systems shall be inspected annually and after storms greater than the 2.7 inches by removing the manhole/access port

covers and determining the thickness of sediment that has accumulated in the chamber.

- › If sediment is more than six inches deep, it must be suspended via flushing with clean water and removed using a vactor truck.
- › Emergency overflow pipes will be examined at least once each year and verified that no blockage has occurred.
- ›

Vegetated Stormwater Management Devices

Stone Diaphragm, Energy Dissipaters and Rip-rap Maintenance

- › The stone areas shall be inspected annually for missing or dislodged stones. Replace stone as necessary.
- › Deposited sediments shall be removed manually at least once per year.
- › Trash and debris shall be removed as necessary.

General Vegetated Areas Maintenance

Although not a structural component of the drainage system, the maintenance of vegetated areas may affect the functioning of stormwater management practices. This includes the health/density of vegetative cover and activities such as the application and disposal of lawn and garden care products, disposal of leaves and yard trimmings.

- › Inspect planted areas on a semi-annual basis and remove any litter.
- › Maintain planted areas adjacent to pavement to prevent soil washout.
- › Immediately clean any soil deposited on pavement.
- › Re-seed bare areas; install appropriate erosion control measures when native soil is exposed or erosion channels are forming.
- › Plant alternative mixture of grass species in the event of unsuccessful establishment.
- › The grass vegetation should be cut to a height between three and four inches.
- › Pesticide/Herbicide Usage – No pesticides are to be used unless a single spot treatment is required for a specific control application.
- › Fertilizer usage should be avoided. If deemed necessary, slow release fertilizer should be used. Fertilizer may be used to begin the establishment of vegetation in bare or damaged areas, but should not be applied on a regular basis unless necessary.



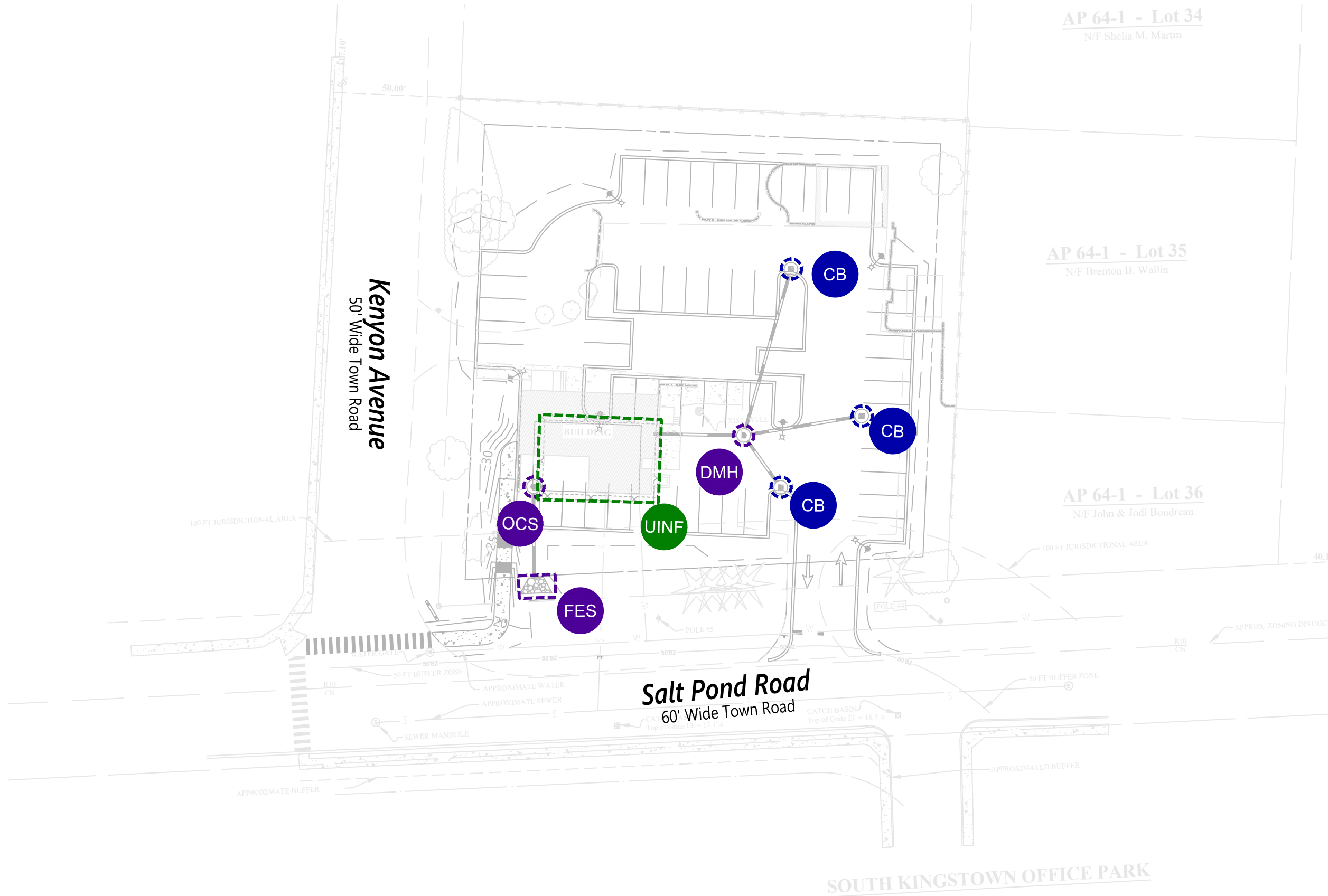
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Pollution Prevention and Source Control

A comprehensive source control program will be implemented at the Site, which includes the following components:

- › Regular pavement sweeping and vacuuming as defined previously in this manual.
- › Asphalt pavement sealants are a major source of polycyclic aromatic hydrocarbons (PAHs) in our environment. Asphalt based sealants are allowed. Coal-tar based sealants are not allowed.
- › Catch basin cleaning.
- › Clearing litter from the parking area, islands, and perimeter landscape areas.
- › .Spill Prevention training. Maintenance personnel will be instructed in the proper clean-up procedures for spilled materials and the location of clean-up materials
- › Sand and deicing chemicals shall be stored under cover so as to prevent exposure to stormwater. Use calcium chloride and calcium magnesium acetate (CMA) in sensitive ecosystem areas.
- › Snow storage areas will be managed to prevent blockage of storm drain catch basins and stormwater drainage swales. Snow combined with sand and debris may block a storm drainage system, diminishing the infiltration capacity of the system and causing localized flooding.
- › Snow shall not be dumped into any water body, pond, or wetland resource area.

- › Grounds Management:
 - Conduct soil evaluation every 1-3 years to determine suitability for supporting lawn, and to determine how to optimize growing conditions.
 - Mowing and thatch management.
 - Weed management.
 - Pest management.



Legend

	CB	CATCH BASIN
	UINF	UNDERGROUND INFILTRATION BASIN
	DMH	DRAIN MANHOLE
	FES	FLARED END SECTION
	OCS	OUTLET CONTROL STRUCTURE



Inspection Date: ____/____/____ Inspection Performed By: _____

Regular Asphalt Pavement Areas – Sweep or vacuum pavement at least once per year with a commercial cleaning unit and properly dispose of removed material. More frequent sweeping will result in less accumulation in other stormwater features.

Street Name	Inspected (Y/N)	Sediment Depth (inches)	Cleaning needed (Y/N)	Date Cleaned	Comments (Trash, Oil, Pet waste, Lawn Debris, Damage)
Parking Lot				/ /	

Catch Basins – Inspect quarterly for first year to determine oil and sediment accumulation rate. Clean annually and when sediment depth is greater than half the sump depth.

Catch Basin	Inspected (Y/N)	Sediment Depth (inches)	Cleaning needed (Y/N)	Date Cleaned	Comments (Trash, Oil, Pet waste, Lawn Debris, Damaged)
				/ /	
				/ /	

Outlet Control Structures – Inspect quarterly for first year to determine debris and sediment accumulation rate. Clean annually and when sediment blocks outlet orifices.

Outlet Control Structure	Inspected (Y/N)	Debris clogging outlets (Y/N)	Cleaning needed (Y/N)	Date Cleaned	Comments (Trash, Damage)
				/ /	

Subsurface Infiltration/Detention Basins – Inspect twice per year by removing the manhole/access port covers. If sediment is more than 6 inches deep, it must be suspended by flushing with clean water and removing sediment by vector truck.

Basin	Inspected (Y/N)	Sediment Depth (inches)	Cleaning needed (Y/N)	Date Cleaned	Comments (Trash, Oil, Sediment, Damage)
				/ /	

Inspection Date: ____/____/____ Inspection Performed By: _____

Stone Diaphragms, Energy Dissipaters and Rip-rap Outfalls– Inspect annually, replace any dislodged rip-rap, remove sediment and excess vegetation, and remove any debris.

Outfall	Inspected (Y/N)	Sediment Depth (inches)	Cleaning needed (Y/N)	Date Cleaned	Comments (Trash, Oil, Pet waste, Lawn Debris, Damage)
				/ /	

Landscape Areas - Inspect twice per year. Remove any deposited sediment, leaf litter and debris. Reseed or replace any vegetation that has died. Keep mowed to about 4-inches. Fertilizer usage should be avoided. If needed, a slow release fertilizer should be used.

Areas	Inspected (Y/N)	Sediment Depth (inches)	Cleaning needed (Y/N)	Date Cleaned	Comments (Trash, Oil, Pet waste, Lawn Debris, Damage)
Perimeter and interior island landscaping				/ /	