



**James Street Remediation
Worcester, MA
\$1,144,350**



- ▶ Installation of 500 lf of site drainage, precast catch basins, particle separators and headwall
- ▶ Placement of 1700 tons of rip rap slope protection
- ▶ Installation of block retaining wall: 1300 lf
- ▶ Furnish and install sand and gravel: 10,000 cy
- ▶ Furnish and install Geo-Synthetic clay liner: 23,000 sq yds
- ▶ Fine grade and pave approximately 20,000 sq yds

The project is scheduled to be completed June 2008.

Charter was contracted to perform excavation of lead impacted soils from the Jamesville Pond basin and the construction of a landfill cap and retaining wall to contain the contaminated soil. An asphalt paved surface is proposed to be built over the cap and the property will continue to be used as a storage yard for a fence distributor. The project requires that all work be completed while the property is occupied by the tenant.



After site tree clearing and removal, Charter began excavating impacted soil from the upland portion of the project, stockpiling on-site and then mixing with the existing gravel surface. Approximately 1500 cy of soil was excavated from the upland area and it was mixed with the existing surface.

Site work continued on the construction of the northern portion of the parking lot with the installation of the storm drain system which included a particle separator from Vortechinics. The precast concrete retaining wall was installed and the subgrade was prepared with imported sand and gravel, a geosynthetic clay liner, and an orange warning barrier.

Key items of work and quantities for the project are:

- ▶ Excavation of lead impacted soil: 3500 cy
- ▶ Site excavation of slopes and retention pond: 1300 cy