

# Erosion and Sedimentation Control

From Construction Activity

May 20, 2019

# Erosion and Sedimentation Control **BMPs**

- Erosion Control Best Management Practices (BMPs) are required during all ground disturbing activities until permanent site ground covers are in place.
- BMPs for ESC are physical, chemical or managerial practices that prevents, reduces or treats contamination of storm water or reduces soil erosion
- The following BMP's are effective in Urban Cities like Cambridge

# Erosion and Sedimentation Control BMPs

- Perimeter Control
  - temporary barrier to surface flows and slows flows from coming of a project
    - Silt sack
    - Hay bales
    - Straw Wattles



Perimeter  
Control







Perimeter  
Control



Perimeter  
Control





# Perimeter Control

DANGER  
FLAMMABLE  
MATERIALS

**MW**  
MANAGE WASTE SYSTEMS, LLC  
1-800-258-0121

sto







Perimeter  
Control



# Erosion and Sedimentation Control BMPs

- Construction Site entrance/exit crushed Stone
  - Inspected daily
  - Maintained in a condition that will prevent tracking or flow of sediments onto public-right-of way or other hard impervious surfaces
  - Be at least 1½ inches
  - All materials spilled, dropped, washed or tracked from a vehicle must be cleaned immediately
    - Use of water to clean is not allowed use sweepers or vacuum system



# Construction Site entrance/exit crushed Stone

- SWEEPING IMPROVES  
STORMWATER POLLUTION





# Construction Site entrance/exit crushed Stone

- SWEEPING IMPROVES  
STORMWATER POLLUTION







Construction Site entrance/exit crushed Stone



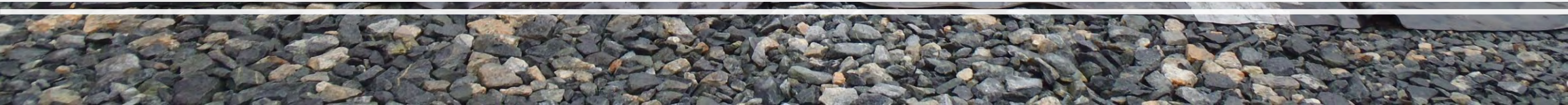


Construction Site entrance/exit crushed Stone





Construction Site entrance/exit crushed Stone





Construction Site  
entrance/exit crushed  
Stone

- Wheel  
Washing





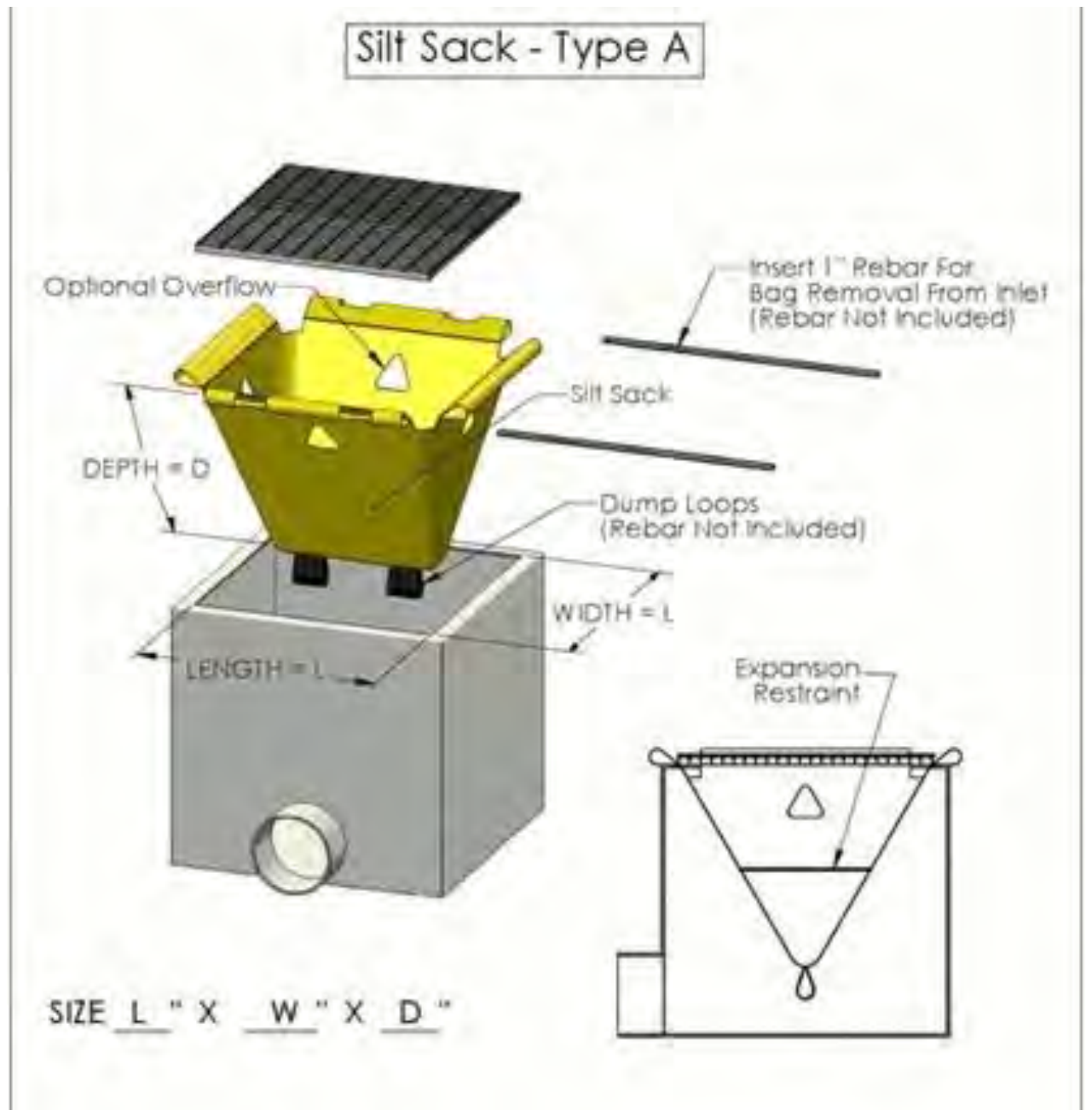
# Erosion and Sedimentation Control BMPs

- Catch Basins Protection
  - Trap and or filter sediments and other material from site runoff and to prevent clogging of inlets
    - Silt Sack
    - Filter Fabric



# Catch Basins Protection

## Silt Sack





# Catch Basins Protection

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Silt Sack





# Catch Basins Protection

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**DO NOT DUMP TO  
CATCH BASINS**





# Catch Basins Protection

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**DO NOT DUMP  
TO CATCH BASINS**





# Catch Basins Protection

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**Illegal Dumping**





# Catch Basins Protection

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**Don't poke a hole  
to CB protection**





# Catch Basins Protection

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**Illegal Dewatering**





# Catch Basins Protection

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**Silt Sack last defense to  
protect Sediments not get  
into water ways**





# Erosion and Sedimentation Control BMPs

- Materials management at construction sites
  - Sweep often
  - Keep dumpsters covered
  - Remove trash daily
  - Store construction materials under a trap
  - Clean up spills immediately
  - Designated Concrete Washout
  - Dust management – sprinkle water, use calcium chloride





Concrete  
Washout



Concrete  
Washout





Concrete  
Washout







Dust  
Control



Dust Control





# Material Management





Material  
Management





# Erosion and Sedimentation Control BMPs

- Proper dewatering set up
  - Get a Permit CITY/MWRA
  - Discharge to permitted Catch Basin
  - DO NOT DISCHARGE WITH OUT A PERMIT



Proper  
Dewatering  
Setup



**WARNING**  
**STAND CLEAR!**  
When container or  
tailgate is in motion,  
failure to stand clear  
could result in serious  
injury or death.  
**STRIKING HAZARD**



**GWTT**  
Ground/Water Treatment & Technology, LLC  
New Jersey • Delaware • Florida • Massachusetts • Pennsylvania  
800-770-0201 [www.gwttllc.com](http://www.gwttllc.com)



Proper  
Dewatering  
Setup





CB Protection For  
Dewatering activity  
is the last defense  
to control  
sediments

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# Dewatering

