

- Conflicting Objectives
- Design Considerations
- Permitting/Construction
- Project Examples



Conflicting Objectives





Remediation Goals

- Limit Off-site Soil Disposal
- Maximize Separation to Contaminants
- Limit Leaching and Dissolved Migration
- Reuse Soil on Site
- Keep Construction Costs Low and Client Happy

Stormwater Goals

- Excavate for Stormwater Structures
- Reduce Impervious Area to Decrease Runoff
- Promote Infiltration and Groundwater Recharge
- Import Freely Draining Soil
- Keep Construction Costs Low and Client Happy

Initial Investigations



Remediation

- Review MassDEP Files
- Perform Phase I ESA
- Review Historic Mapping
- Identify RECs
- Coordinate REC Locations with Stormwater Engineer



Stormwater

- Review MassGIS
- Check Local Regulations
- Perform Initial Stormwater Calculations
- Identify BMP Locations
- Coordinate Locations with Environmental Engineer





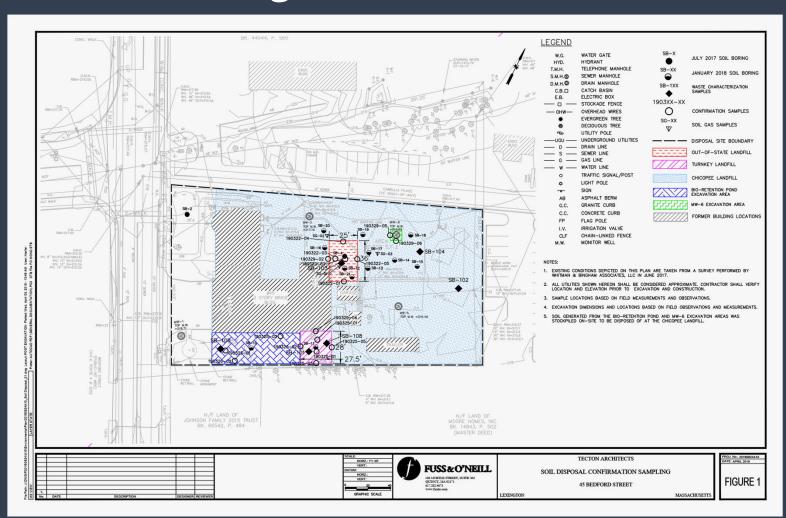


Remediation

- Perform Phase II ESA with Emphasis on BMP Areas
- Identify and Delineate Contaminated Areas
- Identify Soil Removal Areas
- Coordinate with Stormwater Engineer

Stormwater

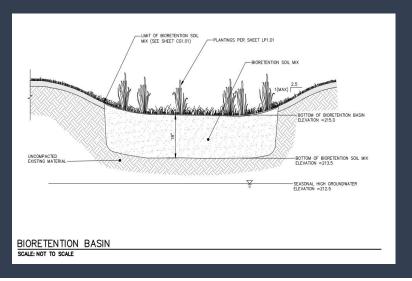
- Excavate Test Pits to Evaluate Subsurface Conditions
- Perform Necessary Design Calculations
- Locate and Size BMPs to Handle Stormwater
- Coordinate with Environmental Engineer

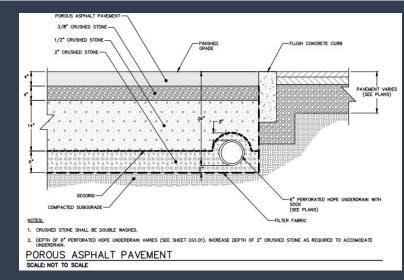












Permitting and Construction





Remediation

- Release Notification
- Tier Classification
- RAM Plan
- Identify Disposal Facility and Perform Soil Characterization
- Take Confirmatory Samples
- Project Closeout

Stormwater

- Notice of Intent
- Site Plan Review
- Special Permit
- Implement Temporary Controls for Construction
- Observe BMP Construction
- Project Closeout















