WESTERN AVENUE
INFRASTRUCTURE DESIGN PROJECT

Subsurface Project Information
June 8, 2011
Existing Western Avenue Catchment Area
Western Avenue – Historical

Charles River Seawall 1903

River Street 1903
2010 Sewer Inspections

Slate collapse into sewer

Sewer collapse at crown of pipe
Eastern Cambridge Drainage

**Legend**
- Cambridge Gravity Mains
- MWRA Metropolitan Sewer
- MWRA North Charles Relief Sewer
- MWRA Junction
- Storm Drain Outfall
- CSO Regulator
- Project Areas

**Areas**
- Area 13
- Harvard Square
- Western Avenue
- CAM 017
- CAM 011
- CAM 009
- CAM 007
- CAM 005

**Sites**
- Fresh Pond
- Somerville
- Cambridge
- Charles River
- Boston

**Streets**
- MAYNARD ST
- MET-NCRS Connection Start of NCRS
- SPARKS ST
- SD to Charles River
- WILLARD ST
- SD Outfall Abandoned All Storm Flow to MET
- FLAGG ST
- MET-NCRS Connection SD to Charles River
- HINGHAM ST
- SD to Charles River
- WESTERN AVE
- MET-NCRS Connection
- PLEASANT ST
- MET-NCRS Connection SD to Charles River
- COTTAGE FARM CSO TREATMENT FACILITY
  - Treated CSO to Charles River
- CAM 017
  - CSO to Charles River

**Figure 2-1**
MWRA Facilities and Cambridge Project Areas
Proposed Western Avenue Catchment Areas

Legend
- Charles River
- Buildings
- Parcels
- Proposed Western Ave Storm Drain Catchment
- Proposed Western Ave Combined Sewer Catchment
- Proposed Outfall
- Total Phosphorus Deflection Structure
Project Phases
Phase 1 - Western Avenue
Project Scope

- Sewer
- Storm drain
- Water
- Gas
- Electric, telephone, cable as needed
Stormwater Outfall Structure

Approximate location of new outfall along Memorial Drive

Examples of stormwater outfalls similar to proposed
Proposed Western Avenue Outfall
Drainage Enhancements

Pervious Pavement

Rain Gardens
Cronin Park
Utility Relocations

- NSTAR Gas Relocation
  - June 2011 – October 2011

- NSTAR Electric
  - Fall 2011

- Coordination ongoing with other utilities
Construction Schedule

- Subsurface Construction
  - December 2011 – December 2012

- Surface Restoration
  - December 2012 – December 2013
Future Community Meetings

- September/October 2011
- December 2011/January 2012
- Additional community meetings as needed during construction
Questions?