



**Working Together  
to protect public health**

# What We Will Do Today

1. Project WIN overview
2. Gather participant demographics
3. Provide an update on the I-64 & Grinstead CSO Basin design process
4. Explore possible site concepts
5. Collect suitability and potential enhancement input
6. Collect comments on other aspects of the project

















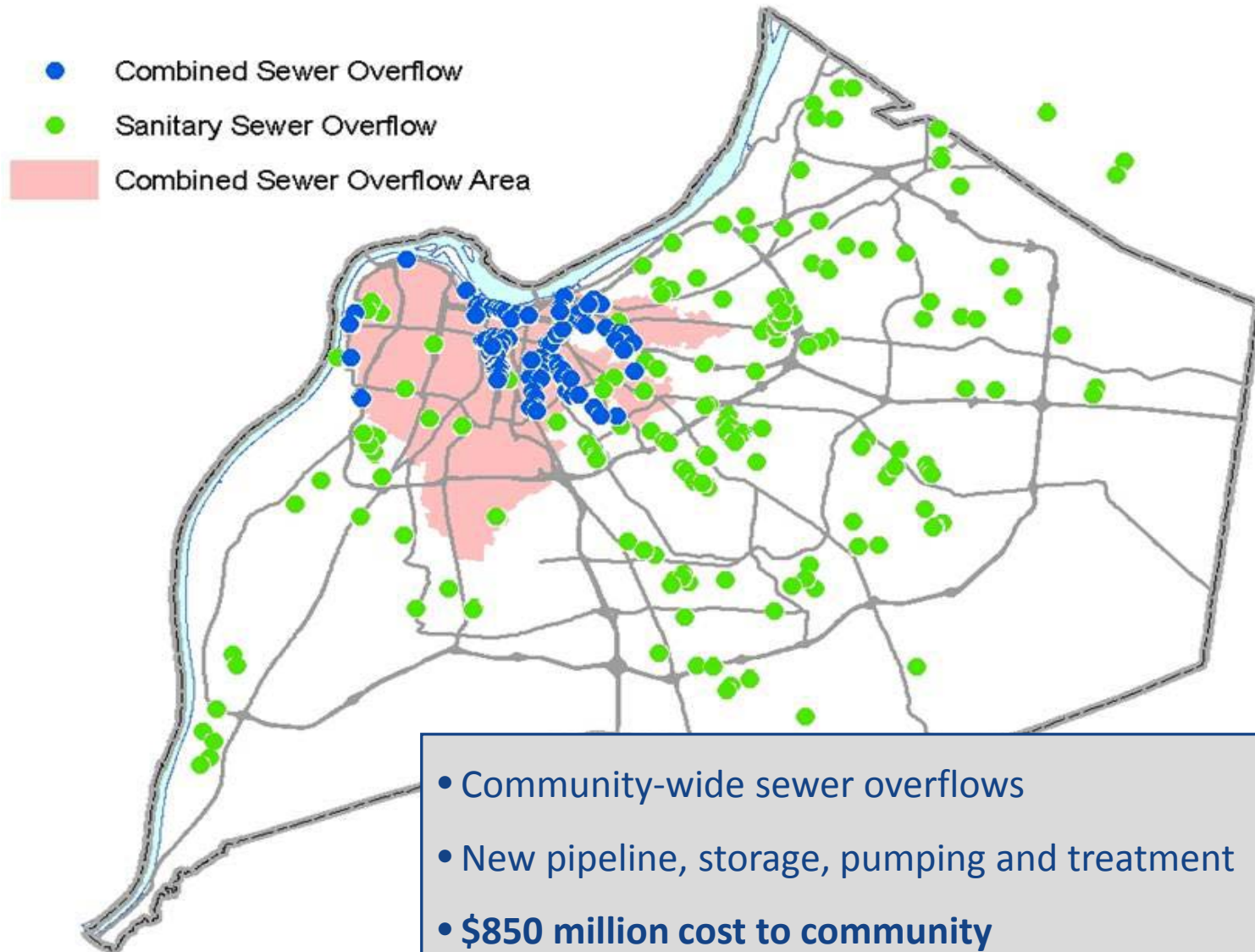




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# Public Health and Safety Mandate

- **1985-2005** – MSD eliminated 300+ failing package treatment plants and 40,000 failing septic tanks
- **2005** – Mandate from Federal EPA and Kentucky to abate overflows
- **2008** – MSD submitted \$850 million plan to satisfy the mandate
- **2009** - Federal EPA and Kentucky approve the plan
  - Combined Sewer Overflow program complete by 2020
  - Separate Sewer Overflow program complete by 2024





# Overflow Abatement Projects

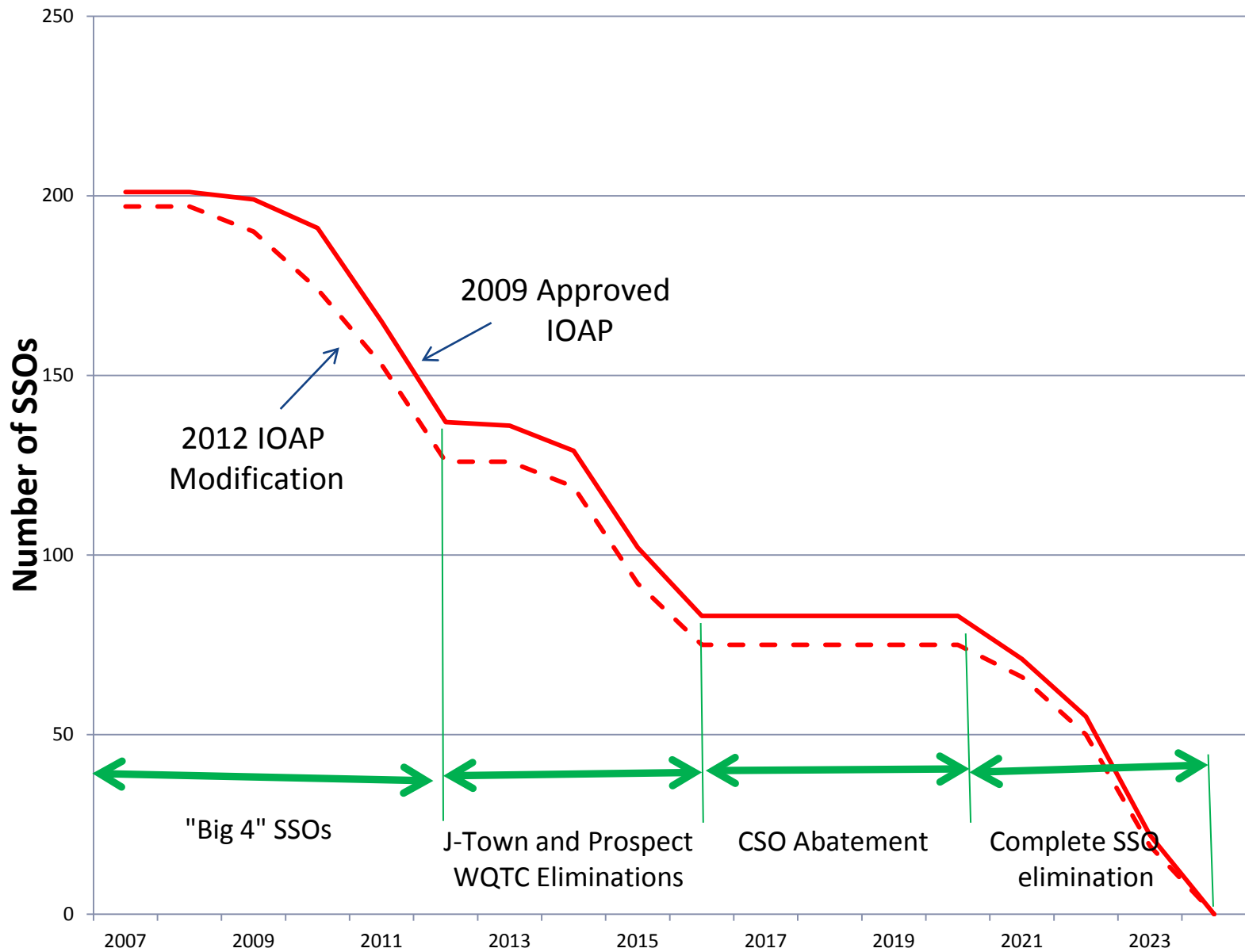
Approved 2009

- Pipeline projects
- Storage basins
- Pump station expansions
- Wastewater treatment plant expansions
- Green infrastructure
- Downspout disconnections
- Sump pump disconnections
- Sewer rehabilitation



**Smoke testing on public sewer  
indicates improper downspout  
connection to the sanitary  
sewer**







# Pilot Public Engagement Process

- Have you help us develop the best solutions possible while achieving the required overflow reductions
- Give everyone an equal voice
- Show you the results of your input

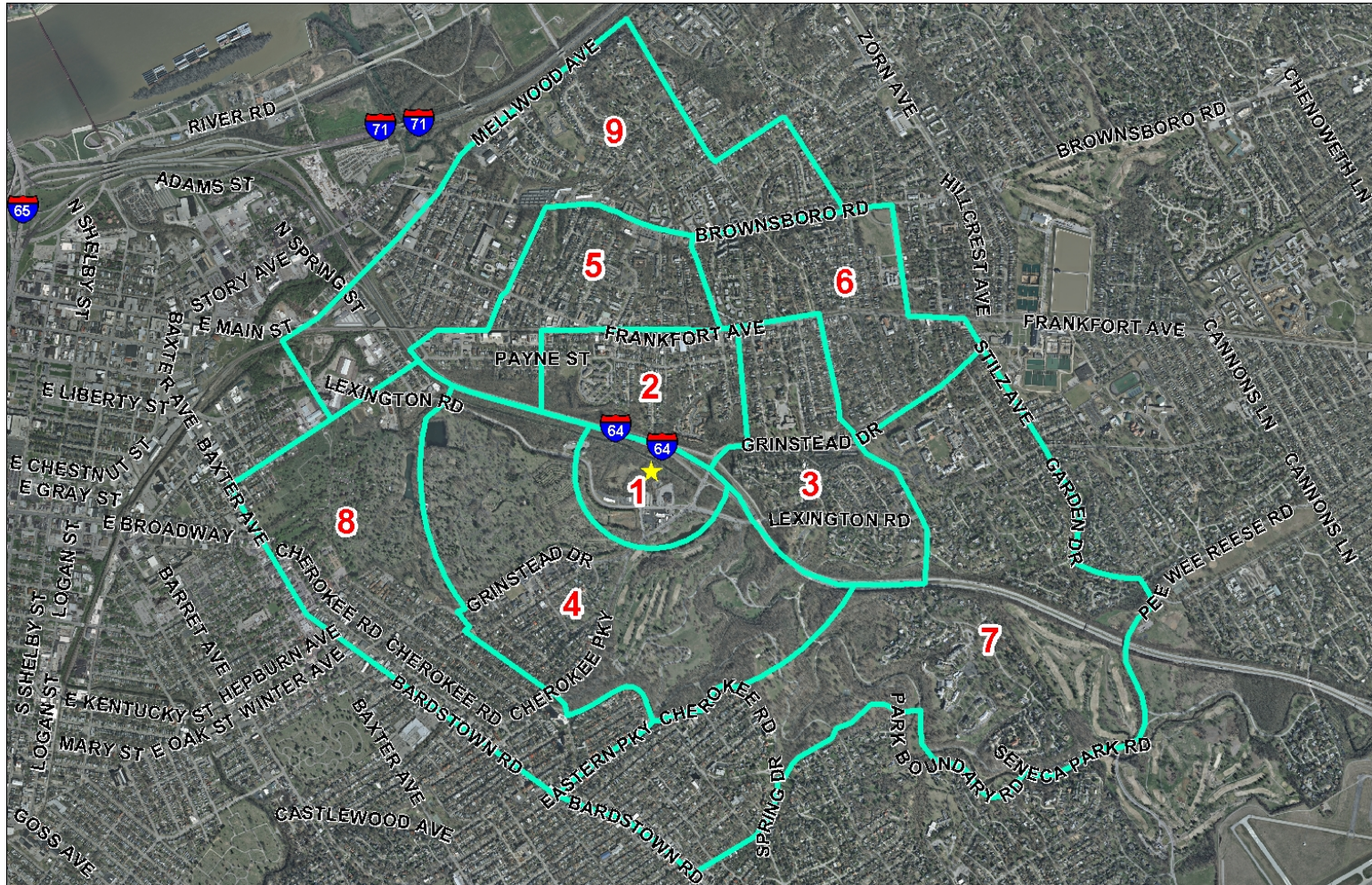


# Demographics



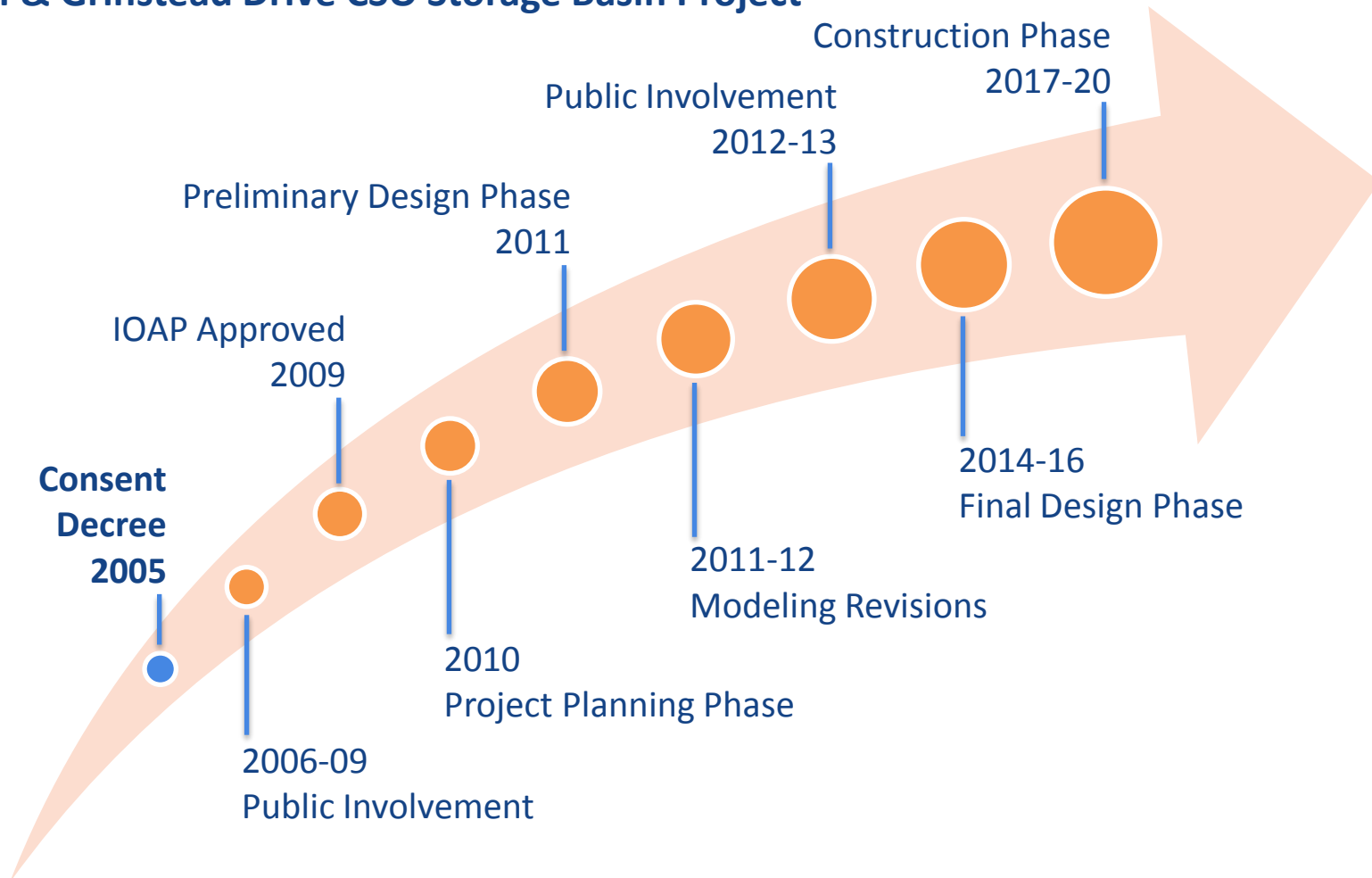


# Demographics



# Consent Decree

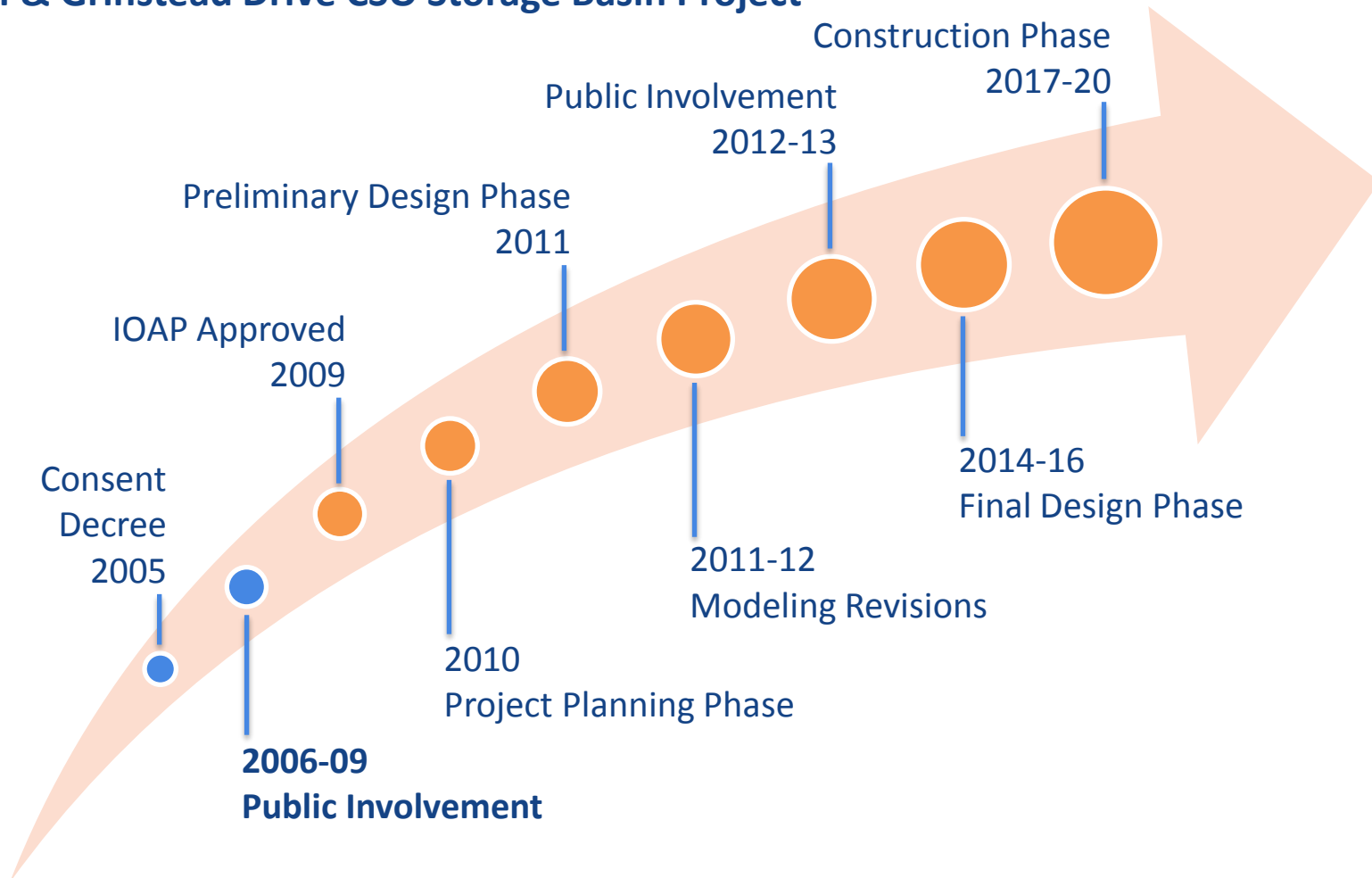
## I-64 & Grinstead Drive CSO Storage Basin Project





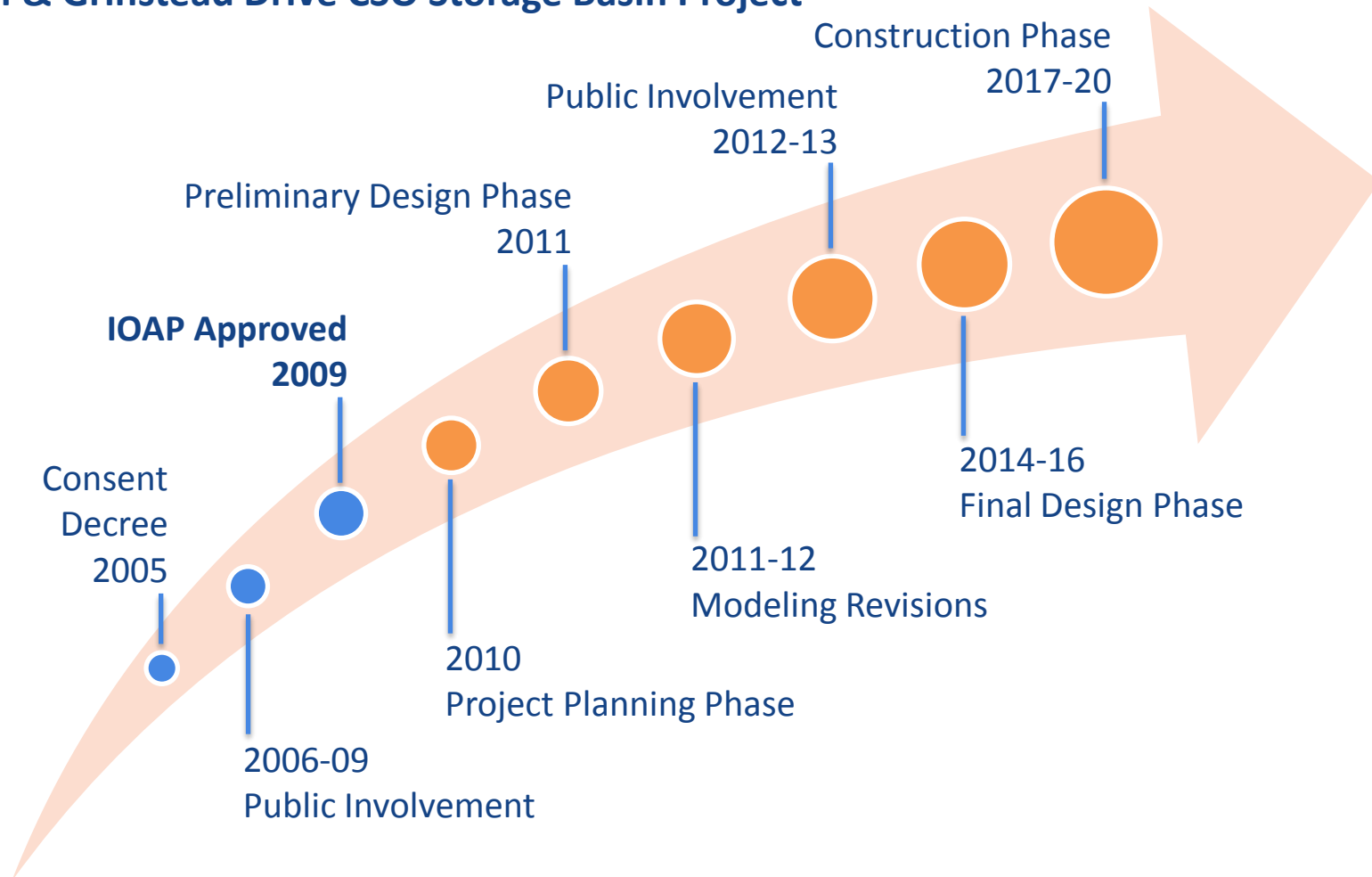
# Public Involvement

## I-64 & Grinstead Drive CSO Storage Basin Project



# IOAP Approved

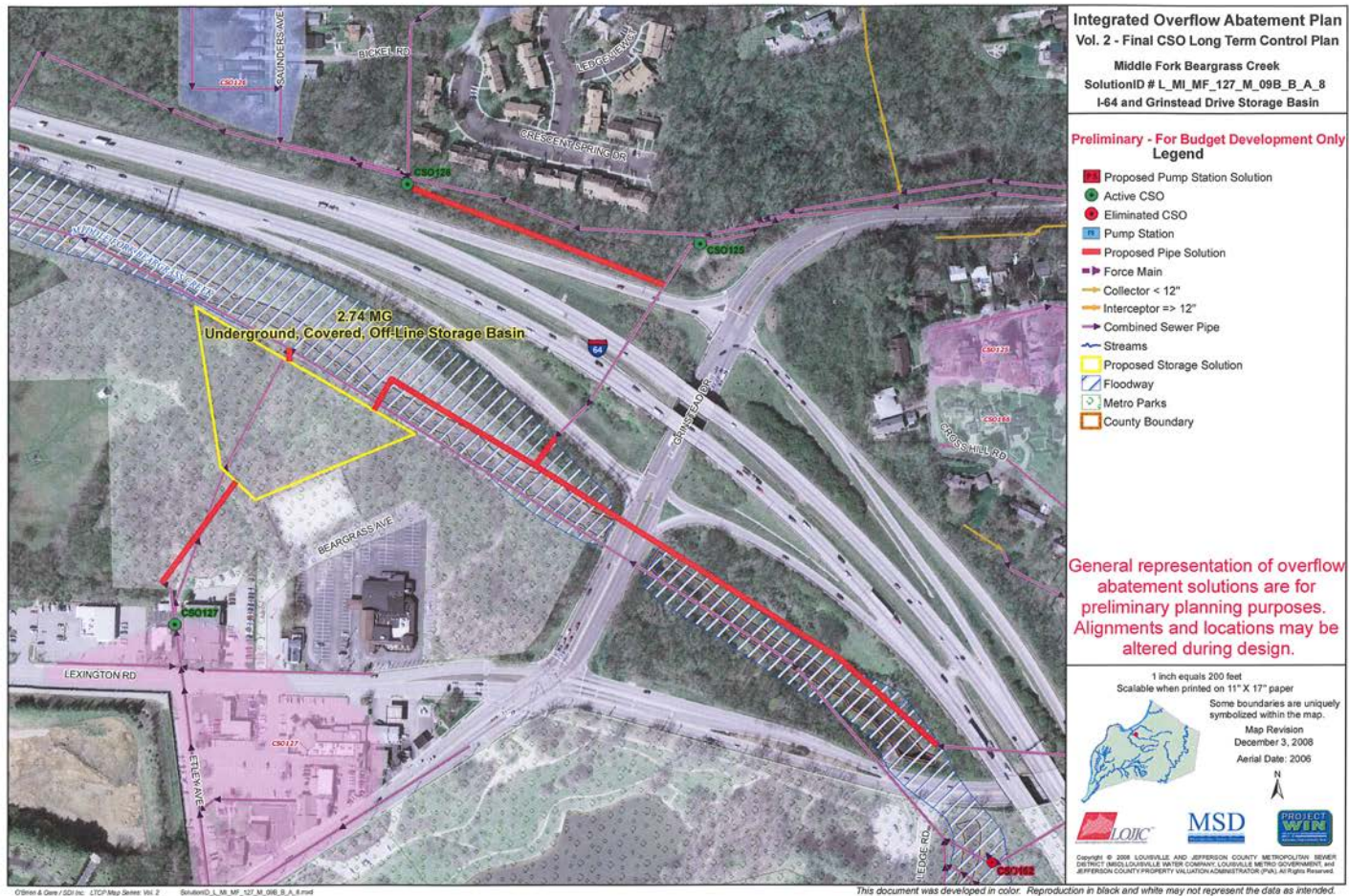
## I-64 & Grinstead Drive CSO Storage Basin Project





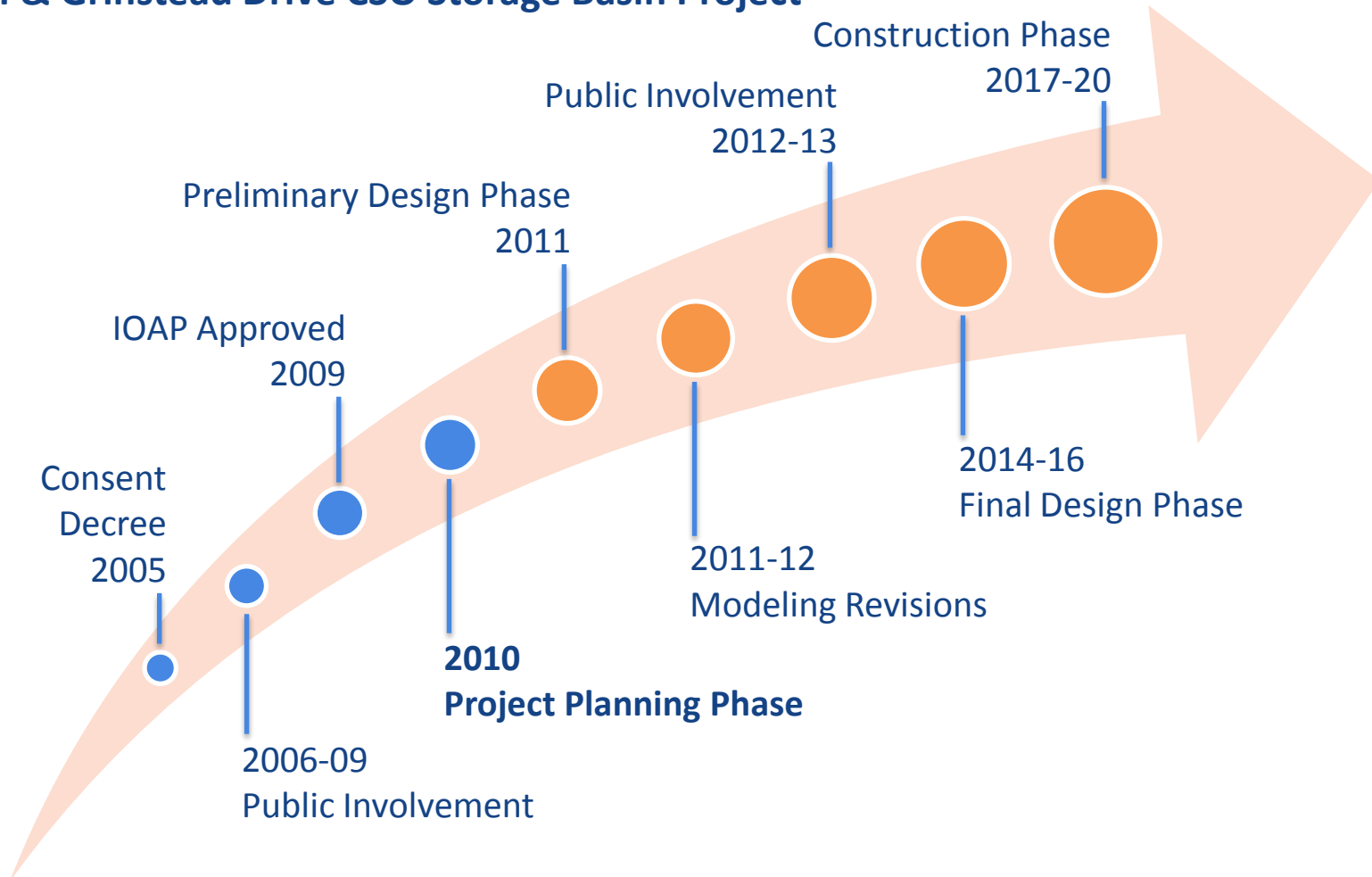
# IOAP Approved

## I-64 & Grinstead Drive CSO Storage Basin Project



# Project Planning Phase

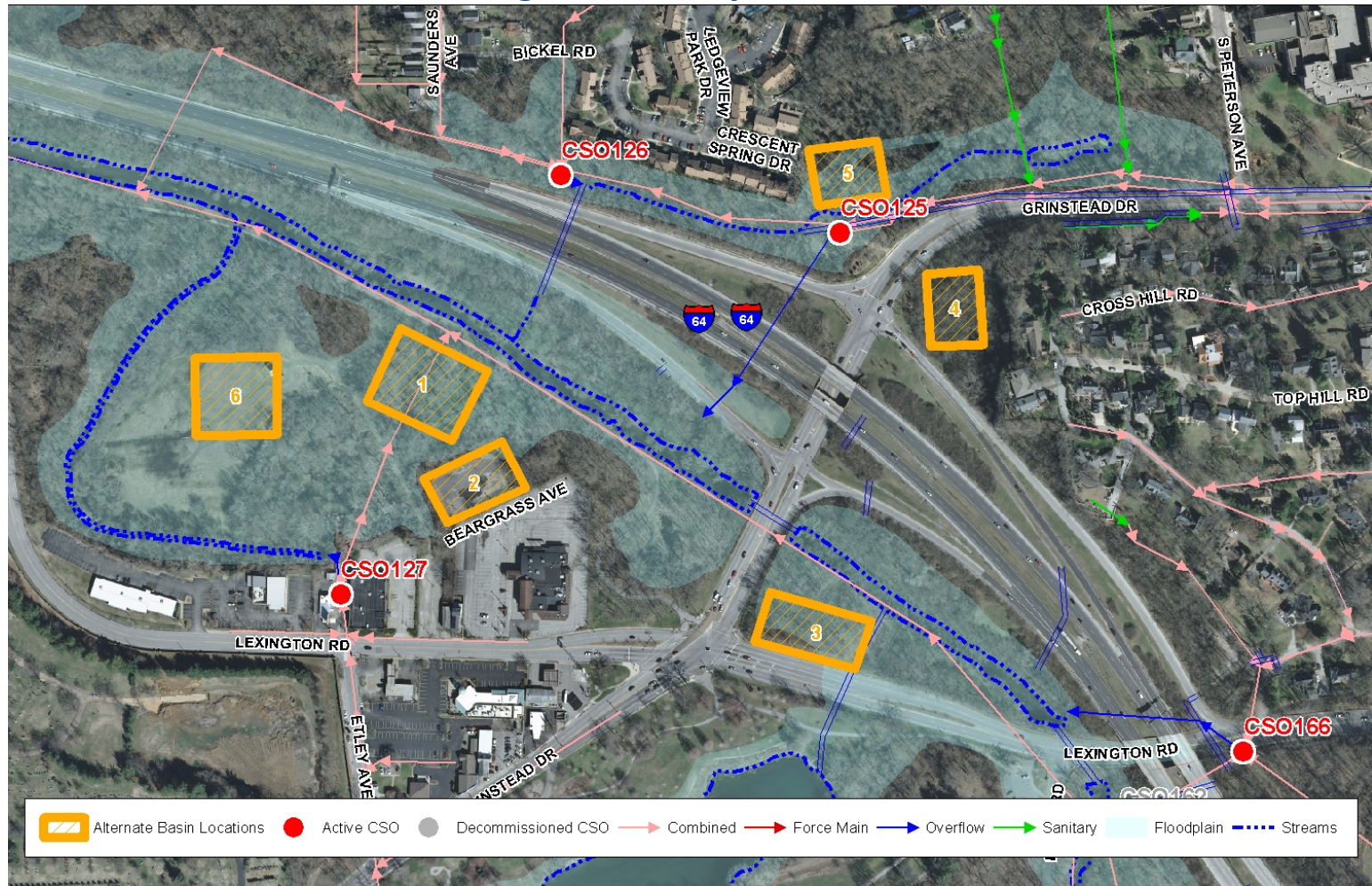
## I-64 & Grinstead Drive CSO Storage Basin Project





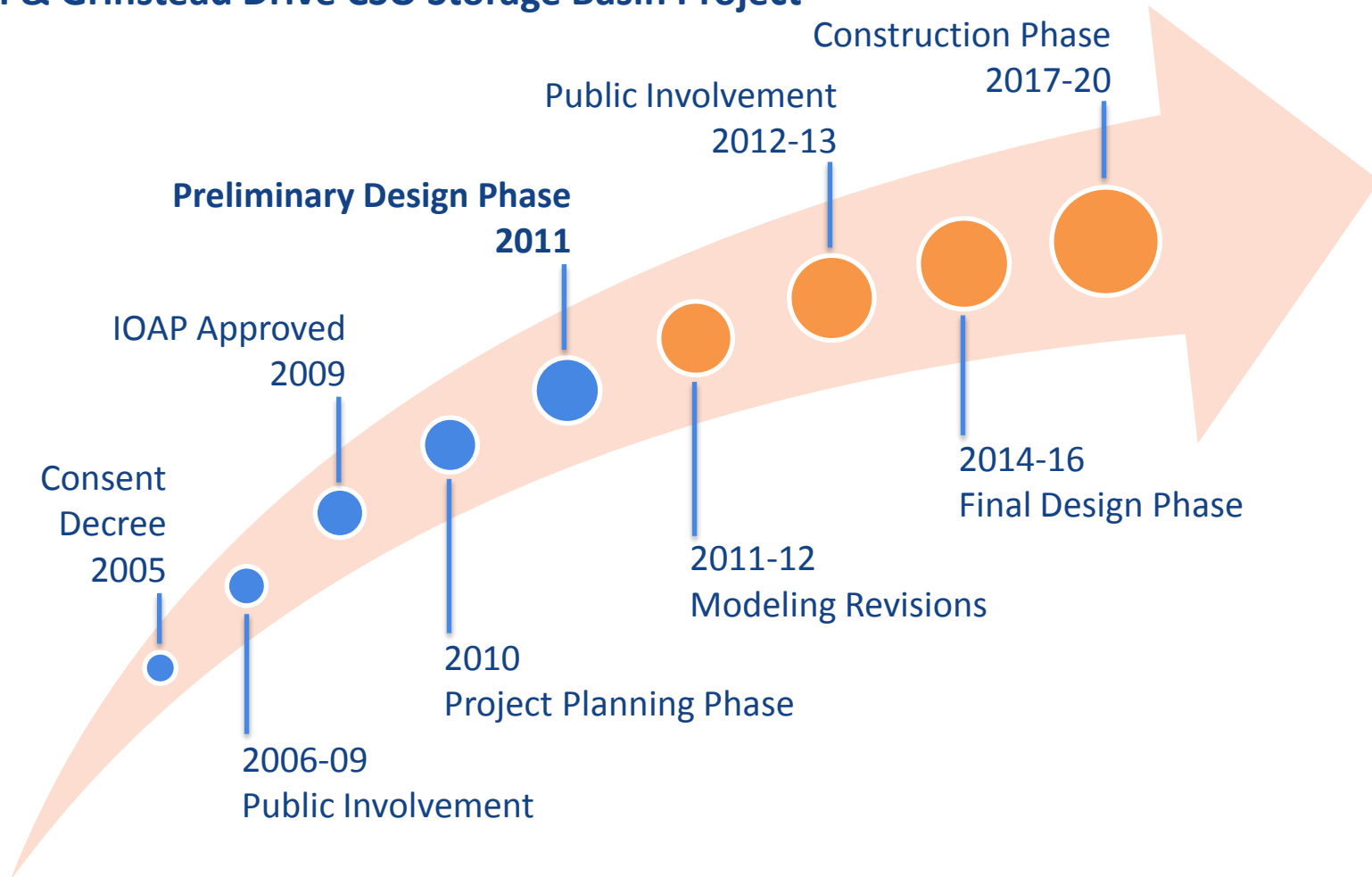
# Project Planning Phase

## I-64 & Grinstead Drive CSO Storage Basin Project



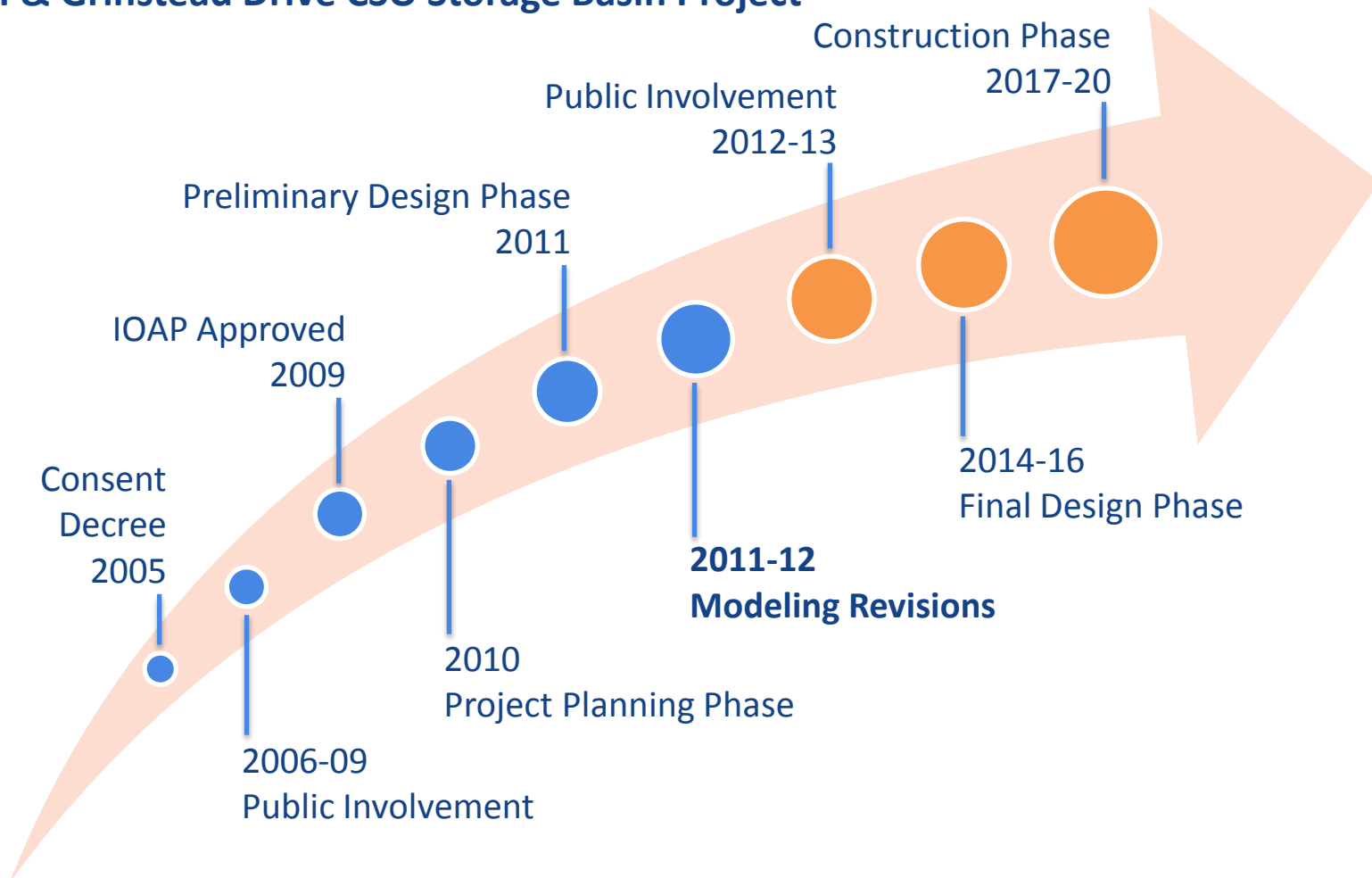
# Preliminary Design Phase

## I-64 & Grinstead Drive CSO Storage Basin Project



# Modeling Revisions

## I-64 & Grinstead Drive CSO Storage Basin Project





# Modeling Revisions

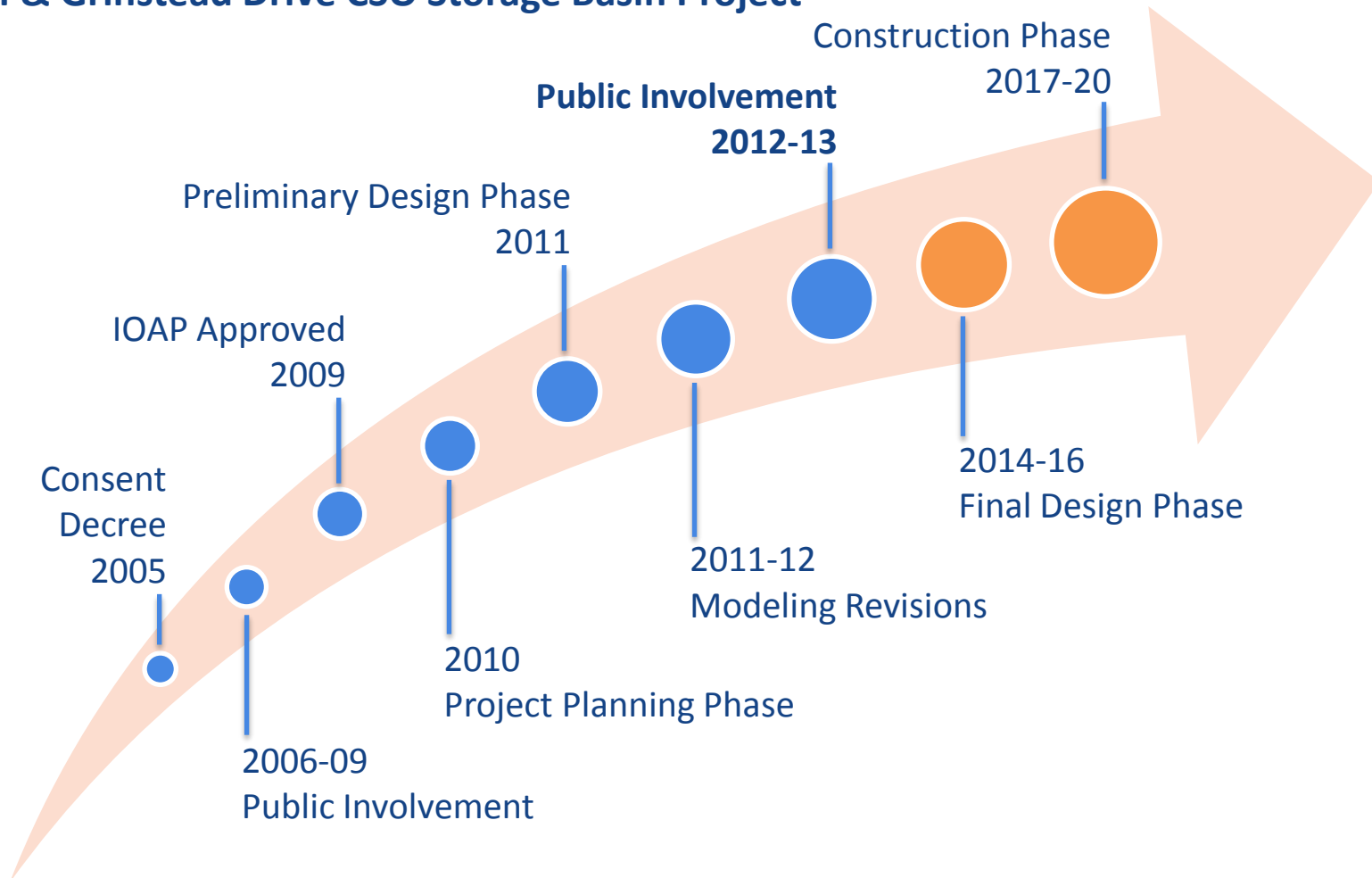
## I-64 & Grinstead Drive CSO Storage Basin Project

- 2009 IOAP
  - 2.74 MG Basin
  - CSO's 125, 126, 127, 166
  - Level of Control of 8 overflows per year, per CSO
  - Construction cost ~ \$13M
  - Completed by 12/31/14
- 2012 Revision
  - 15.13 MG Basin
  - CSO's 125, 127, 166
  - Rehab. CSO 126
  - Level of Control of 4 overflows per year, per CSO
  - Construction cost ~ \$49M
  - Completed by 12/31/20



# Public Involvement

## I-64 & Grinstead Drive CSO Storage Basin Project



# Public Involvement

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# Public Involvement

## I-64 & Grinstead Drive CSO Storage Basin Project



PARTIAL SITE PLAN



RETAINING WALL SYSTEM



**METROPOLITAN SEWER DISTRICT  
I-64 AND GRINSTEAD DRIVE  
PROPOSED CSO STORAGE BASIN**

# Public Involvement | Green Infrastructure

## I-64 & Grinstead Drive CSO Storage Basin Project

### Green Infrastructure

- When it is most effective
  - Permeable (sandy) soils promote infiltration
    - Alluvial deposits
  - Examples:
    - Butchertown (CSO 130) area
    - Portland (CSO 190) area



# Public Involvement | Green Infrastructure

## I-64 & Grinstead Drive CSO Storage Basin Project

### Green Infrastructure

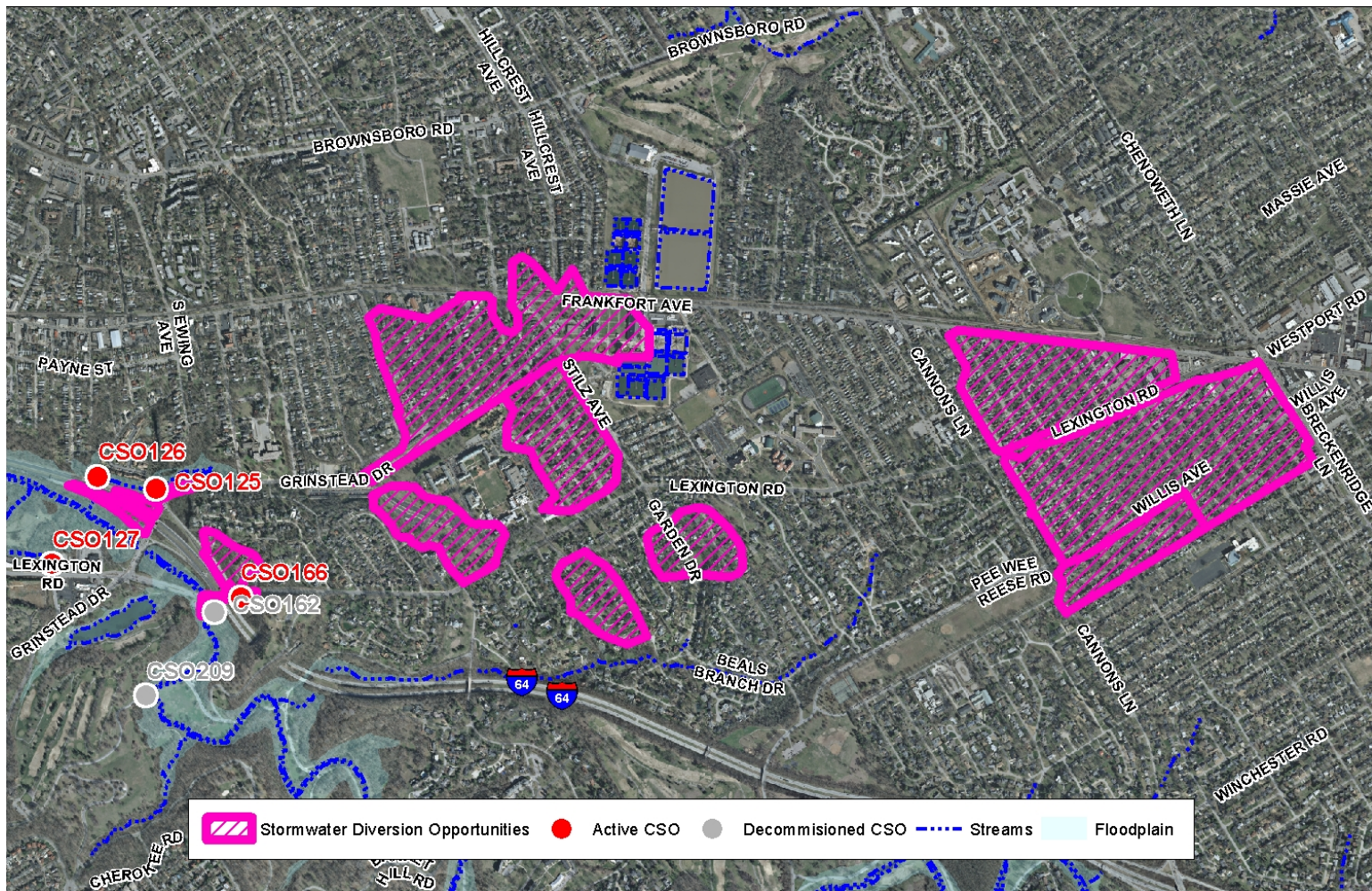
- When it is less effective
  - Impermeable soil conditions inhibit infiltration
    - Shallow bedrock
    - Compacted clay
  - Examples:
    - I-64 & Grinstead area





# Public Involvement | Stormwater Diversions

## I-64 & Grinstead Drive CSO Storage Basin Project



# Public Involvement | Stormwater Diversions

## I-64 & Grinstead Drive CSO Storage Basin Project

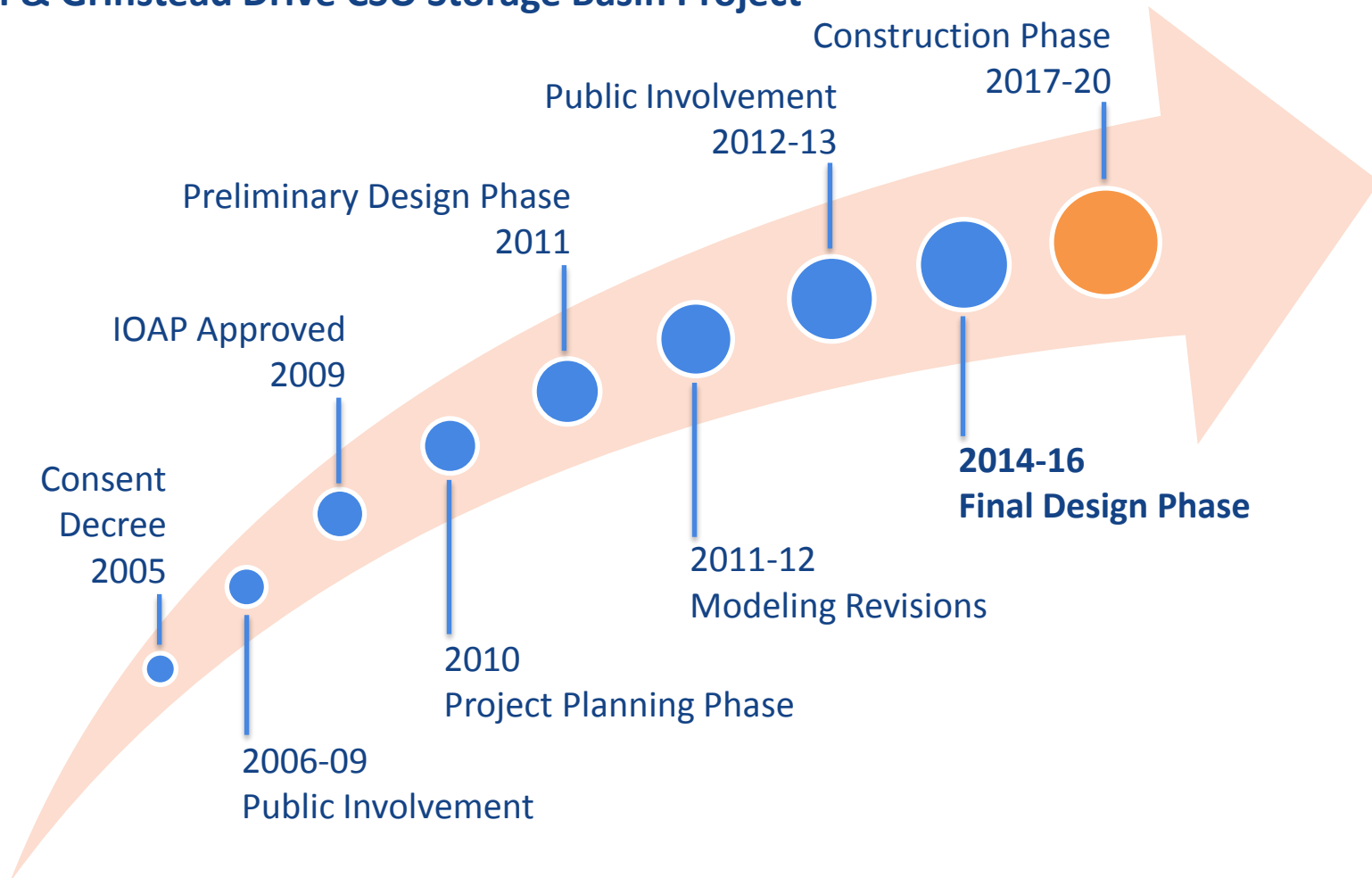
### Impact of Associated Projects

- Boyce College (Southern Baptist Seminary)
- Sacred Heart Campus
- Stormwater diversions
- Downspout disconnections
- Basin size reduced from 15.13 MG to 8.50 MG (6.63 MG reduction)



# Final Design Phase

## I-64 & Grinstead Drive CSO Storage Basin Project





# Final Design Phase

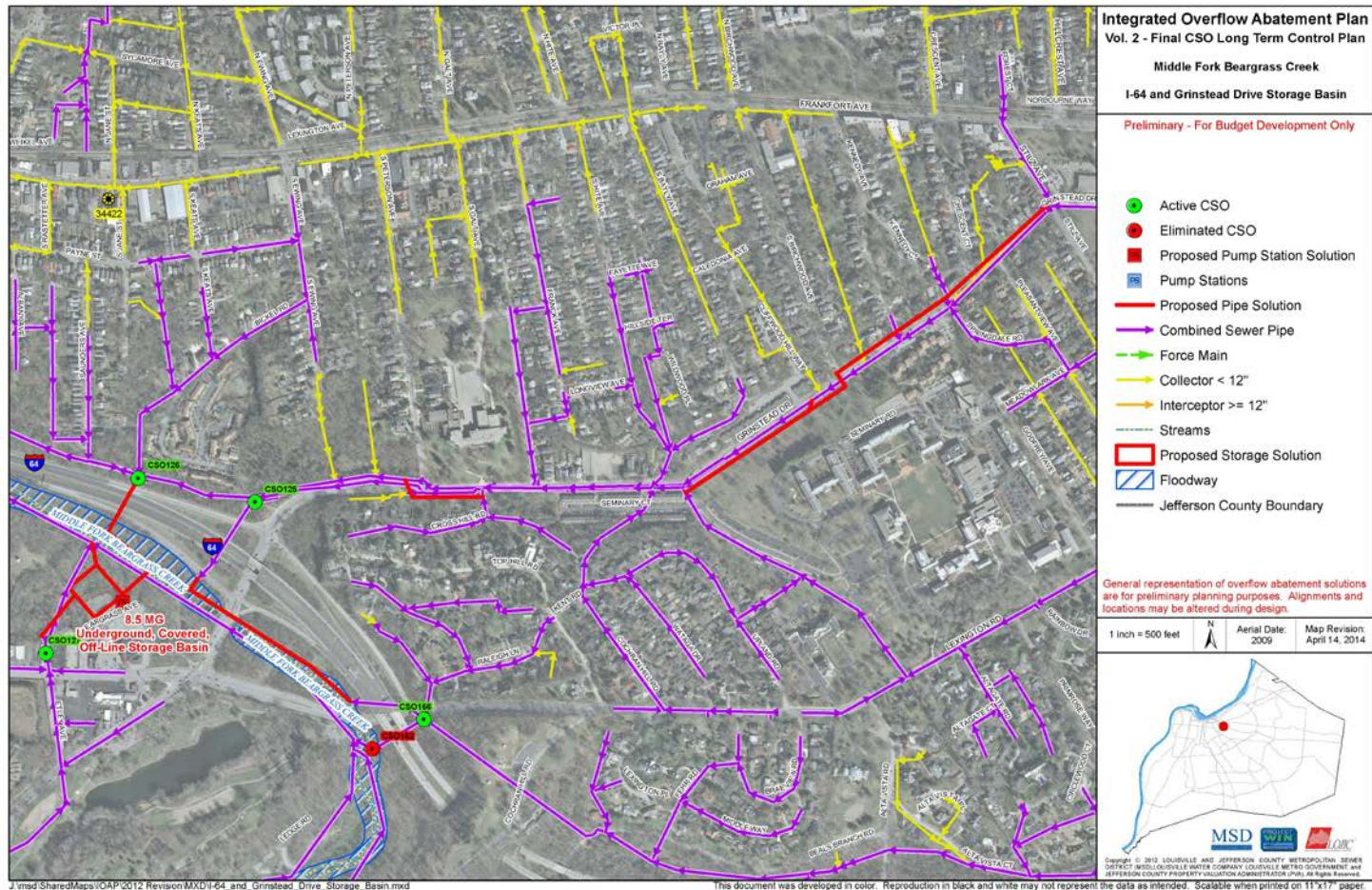
## I-64 & Grinstead Drive CSO Storage Basin Project

- Associated MSD Projects
  - Stormwater diversions
  - Targeted downspout disconnections
- Basin Construction Project
  - 8.50 MG storage capacity
  - Conveyance from CSO's 125, 127, & 166
  - Rehabilitation of CSO 126
  - Located southwest of I-64 & Grinstead Drive intersection, behind Jim Porters



# Final Design Phase | CSO Basin

## I-64 & Grinstead Drive CSO Storage Basin Project





# Final Design Phase | CSO Basin

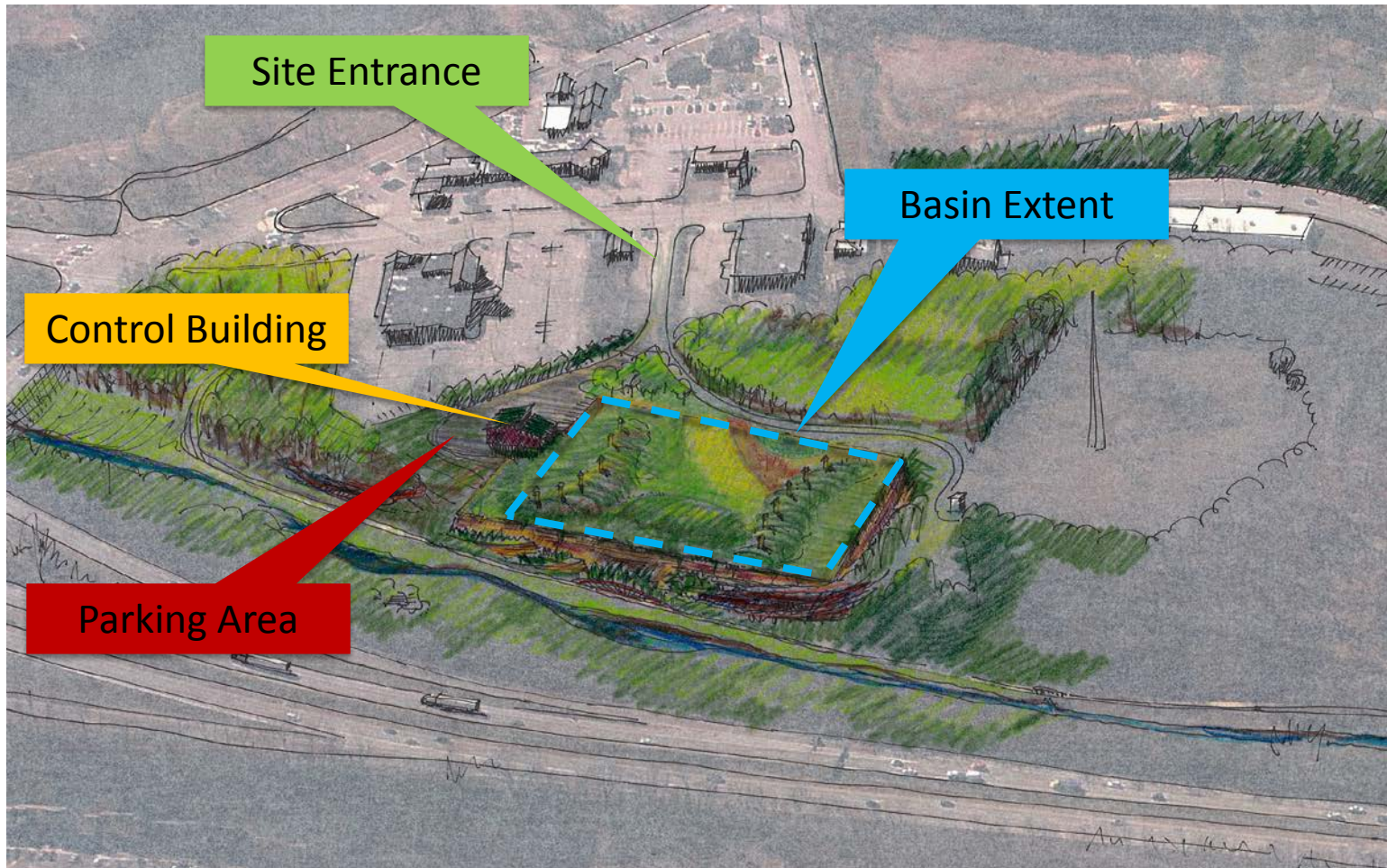
## I-64 & Grinstead Drive CSO Storage Basin Project





# Structured Public Involvement

## I-64 & Grinstead Drive CSO Storage Basin Project



# Structured Public Involvement

## I-64 & Grinstead Drive CSO Storage Basin Project

### Potential Concepts for the Site

1. No public access
2. Restricted access with public parking & trail head
3. Open access with passive recreation
4. Open access with structured recreation



# Structured Public Involvement

## I-64 & Grinstead Drive CSO Storage Basin Project

### The Steps of the Process

1. Present some different potential concepts for the site
2. Make a list of your thoughts on advantages or cautions related to each
3. Have everyone tell us (score with keypads) which thoughts are most important to them
4. Solicit ideas for improvement
5. Score those ideas
6. Evaluate the concept overall for appeal
7. Do it again for the next concept





# SPI | Concept #1 – No Public Access

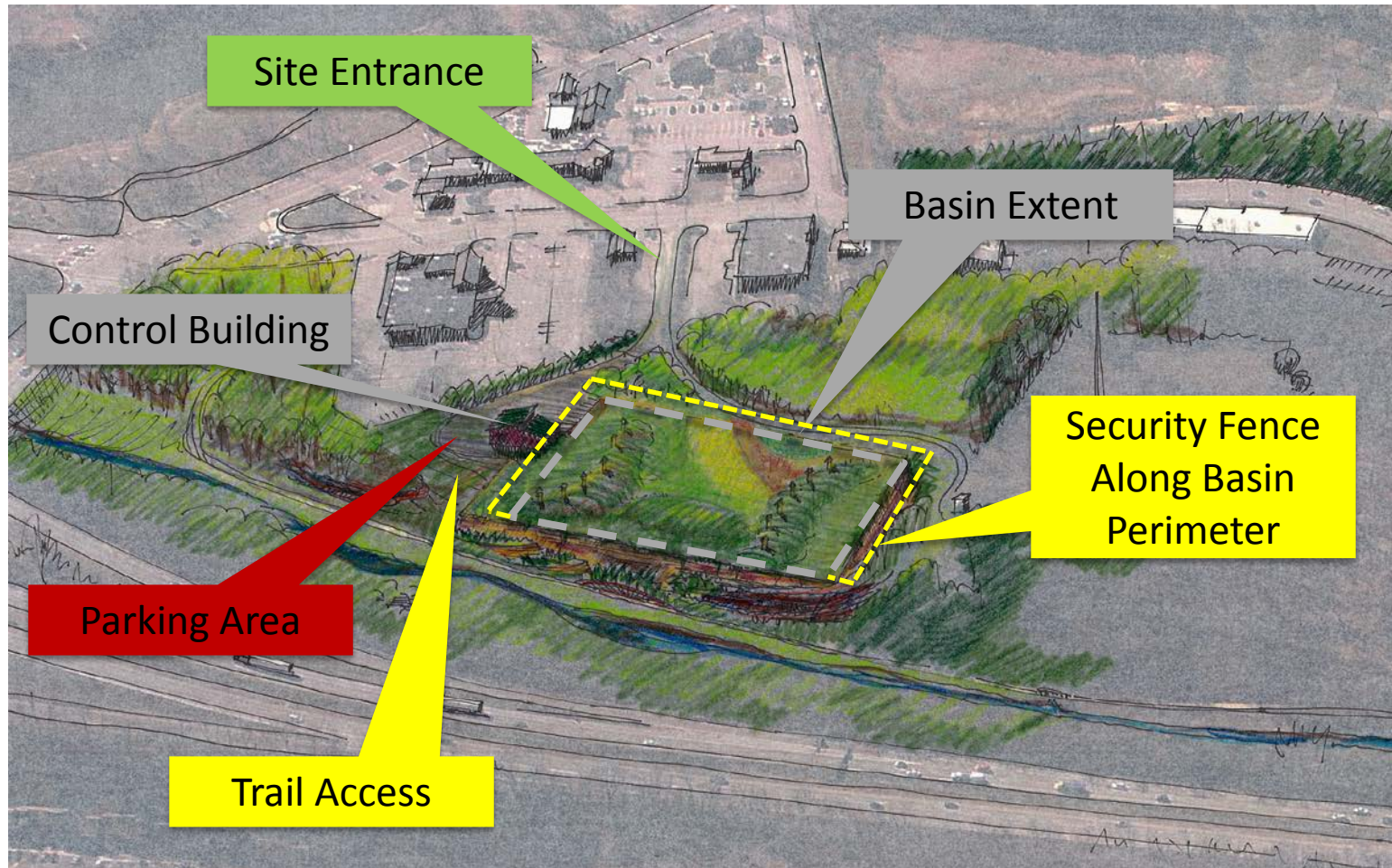
## I-64 & Grinstead Drive CSO Storage Basin Project





# SPI | Concept #2 – Restricted Public Access

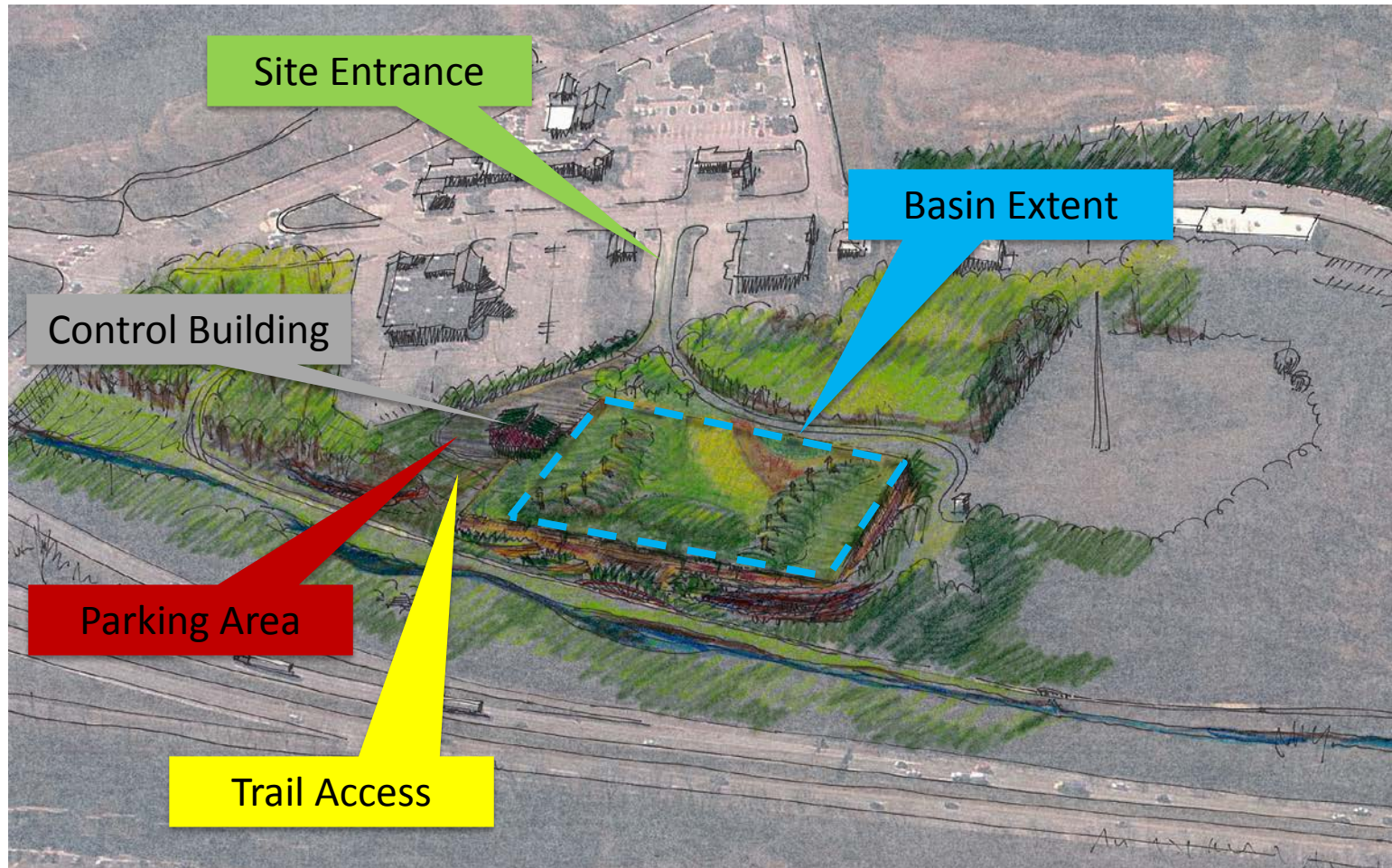
## I-64 & Grinstead Drive CSO Storage Basin Project





# SPI | Concept #3 – Open Access, Passive Rec.

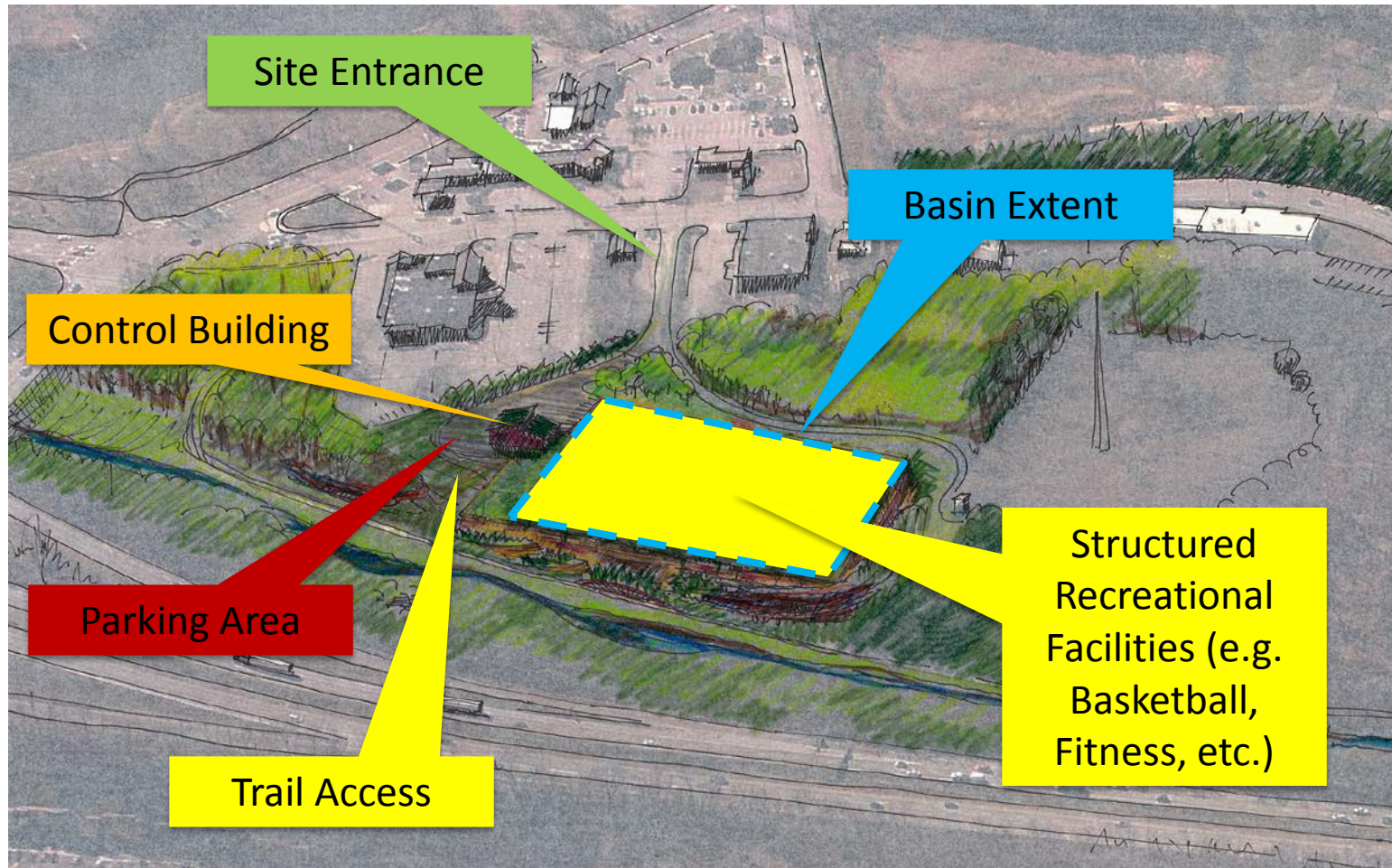
## I-64 & Grinstead Drive CSO Storage Basin Project





# SPI | Concept #4 – Open Access, Structured Rec.

## I-64 & Grinstead Drive CSO Storage Basin Project



# Project Path Forward

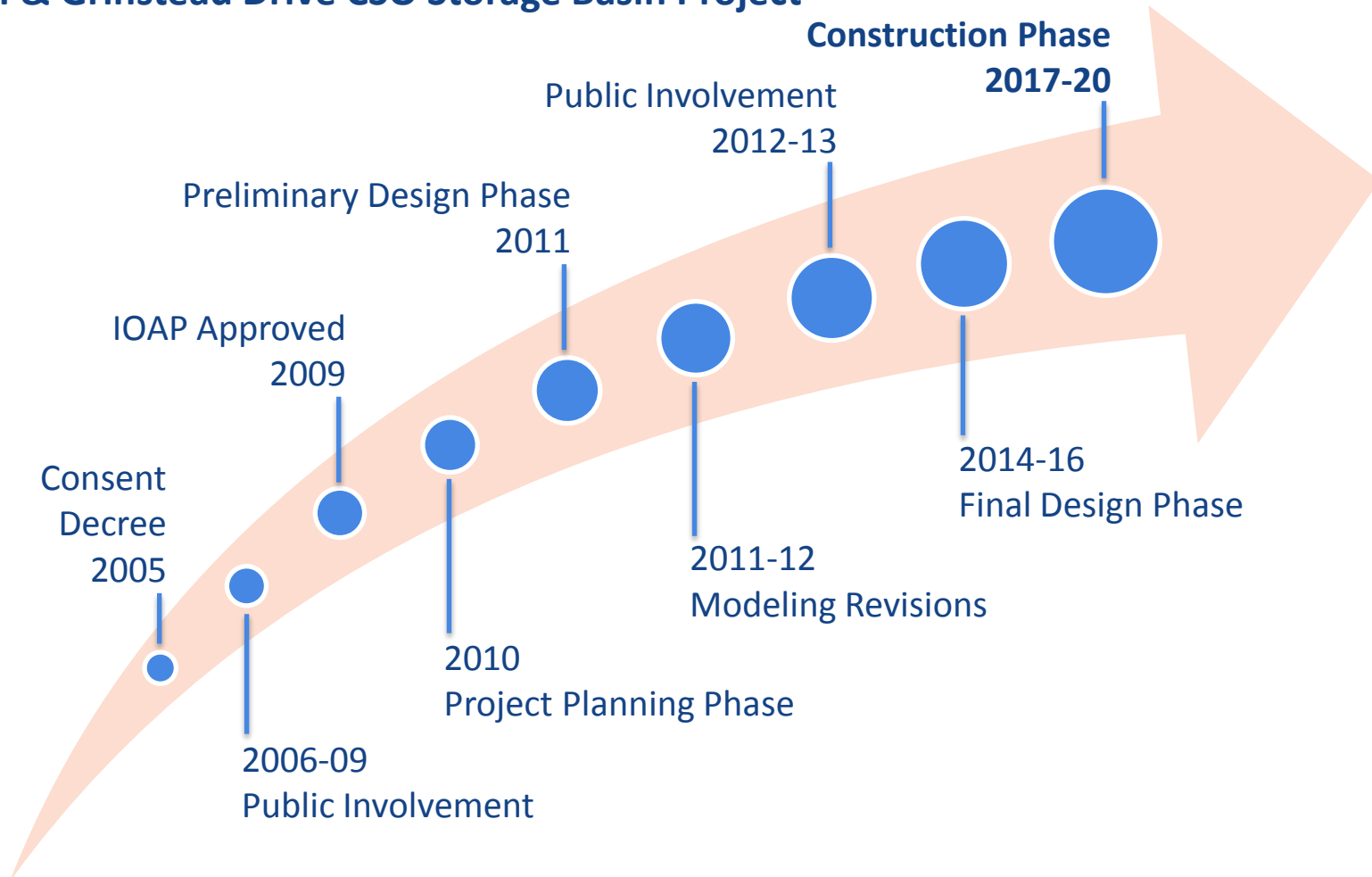
## I-64 & Grinstead Drive CSO Storage Basin Project

- Project Development Public Input | Ongoing
- Detailed Project Development Public Input | Fall 2015
- Community Facilities Review (through Metro Planning & Design Services) | Fall 2016
- Construction Advertisement & Award | Spring 2017
- “Pardon Our Dust” Construction Kick-off Meeting | Summer 2017
- Construction | Fall 2017 – Summer 2020



# Project Path Forward

## I-64 & Grinstead Drive CSO Storage Basin Project





# Additional Public Input Opportunities

## I-64 & Grinstead Drive CSO Storage Basin Project

Send comments via email

[commentsIOAP@msdlouky.org](mailto:commentsIOAP@msdlouky.org)

Mail comments

MSD IOAP Project Comments

Attention: Infrastructure Manager

700 West Liberty St.

Louisville, KY 40203

