



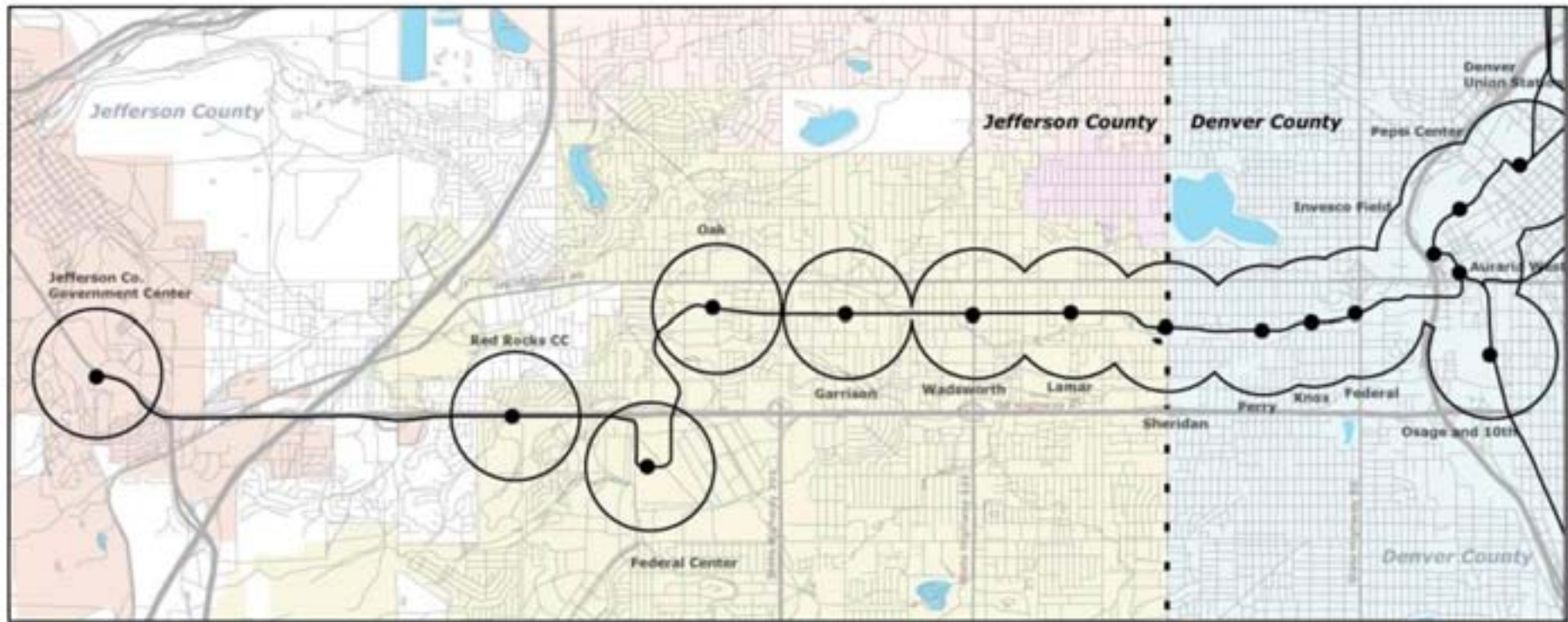
Coordinating Station Area Planning and Transit Design



2010



West Corridor LRT



- 12-mile LRT corridor connecting Denver, Lakewood, Jefferson County and Golden
- 12 stations

CTOD
LEADS THE
TRANSIT-ORIENTED
DEVELOPMENT

Rail-Volution

DAVID EVANS
AND ASSOCIATES INC.

2010



Project Development History

- Initial planning/concept design – early 1980s
- Major Investment Study – 1995 - 1997
- Preliminary Engineering/EIS – 2001 - 2004
- FasTracks Funding Referendum – 2004
- Final Engineering – 2005 – 2009
- CM/GC Guaranteed Maximum Price – March 2009
- Scheduled opening – May 2013

Federal/Decatur Station

- Included in corridor since early planning
- Adjacent to major north-south bus route
- General location established in MIS
- Concept and preliminary design developed in PE/EIS phase
- Final design initiated based on PE design (2005)
- City and County of Denver requested study of alternatives in late 2007 (\$225,000 effort)

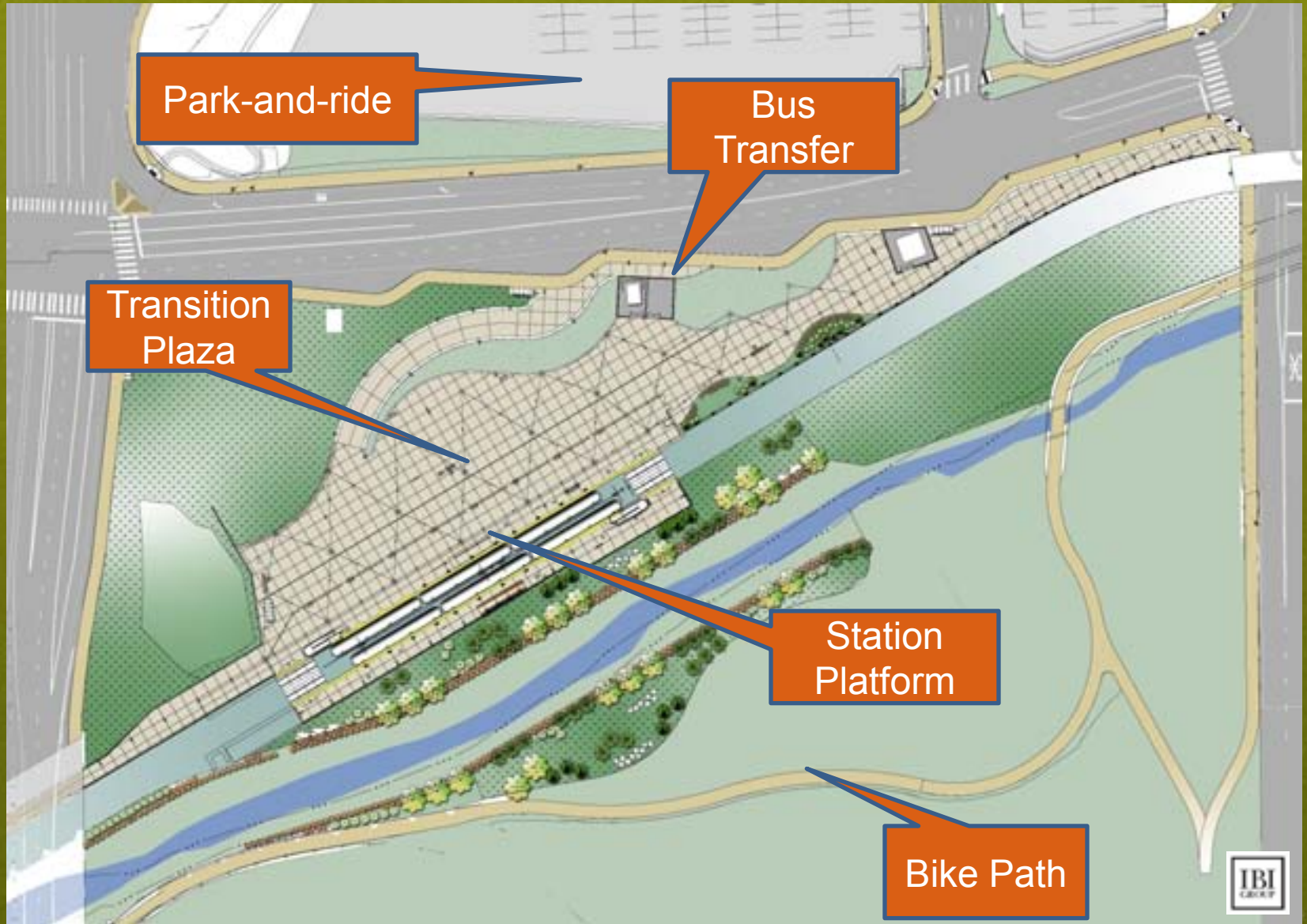
Federal/Decatur Station Context



Design Challenges



Original Station Location





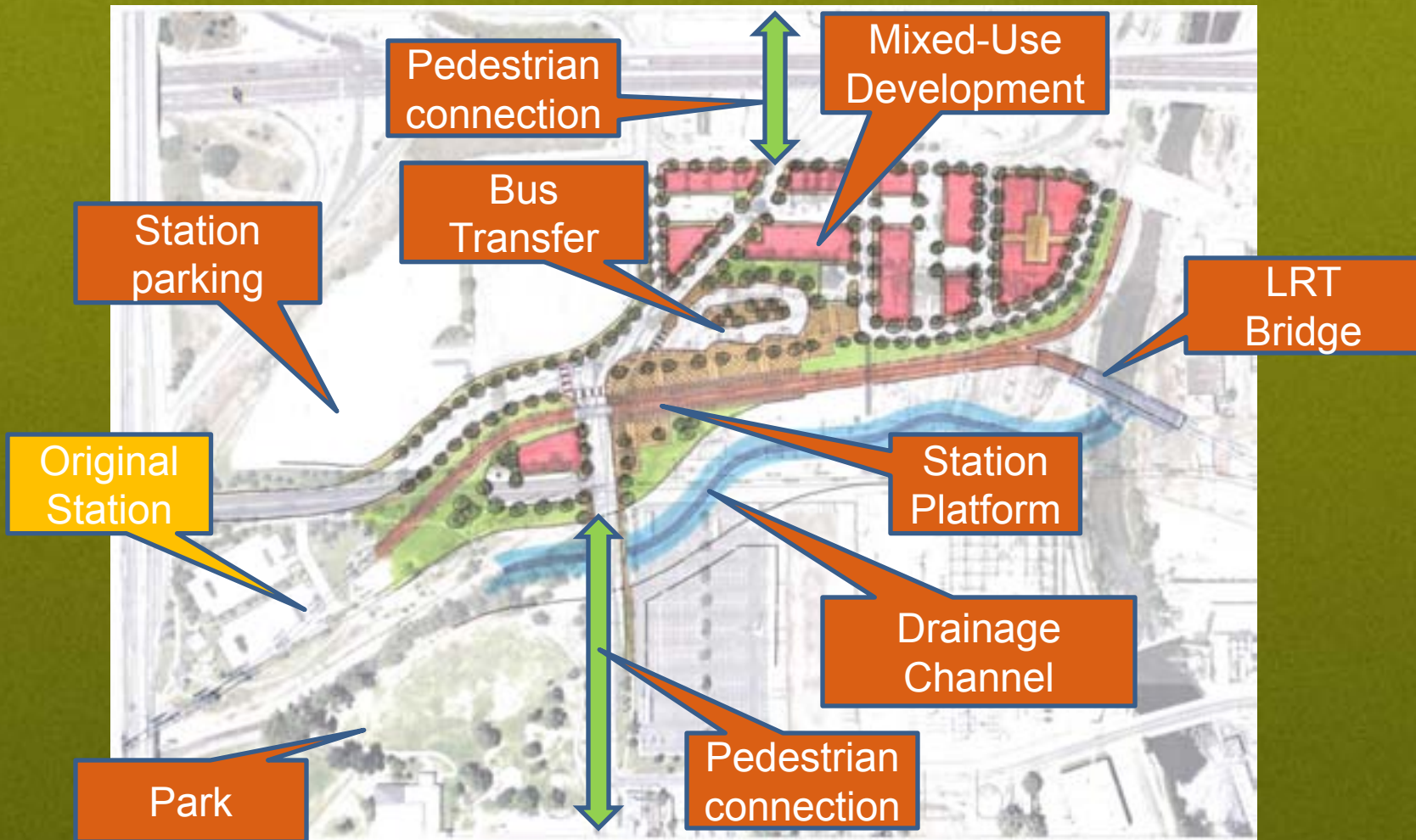
Station Area Objectives

- Address opportunities with relocation of maintenance facility and drainage channel
 - Improve visibility and safety of station
 - Enhance connection between station and mixed use development to the south
 - Maximize redevelopment potential
- 

Station Alternatives



Proposed Concept



Concept Plan



Outcome

- Initial estimate of cost to relocate station - \$3 million
- Subsequent estimate - \$10 million
 - Redesign
 - Construction schedule
 - Construction re-sequencing
- Original station design retained – costs not affordable

Lessons Learned

- Inherent conflict between long, uncertain TOD process and schedule/cost driven and risk averse transit planning and design process
- Start station area planning early and integrate into the PE/EIS process
- Even more important with alternative project delivery
- Local agencies must take initiative and include all affected departments (Public Works and Planning)
- Strong champion and political will required to maximize benefits
- Maximize flexibility to respond to evolving opportunities



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