



# Bloomington Platinum Biking Task Force February 10, 2011





# New Business

## Engineering (#19-35)

- Policies, Standards, Training
- Facilities
- Innovation
- Maintenance





# Policies, Standards, Training

- IC 25-31-1-19 – All public works projects pertaining to construction or maintenance of a public work must be conducted under the direct supervision of a professional engineer.
- Training & PE Licensure
- Public Works – Maintains the Public Right-of-Way
- The City of Bloomington Engineering Division, a division of the Department of Public Works, provides Civil Engineering guidance to the Mayor, City departments, boards and commissions, and the general public. Our division oversees the planning, design, construction and maintenance of private and public works projects involving buildings, roads and storm drainage to insure adherence to the appropriate standards and guidelines.





# Policies, Standards, Training

- Bloomington Municipal Code Titles 12, 13, & 15
- Indiana Manual for Uniform Traffic Control Devices (MUTCD) – signage & pavement marking
- American Association of State Highway Transportation Officials (AASHTO)
  - Greenbook – Geometric Design
  - Guide to the Design of Bicycle and Pedestrian Facilities
- INDOT Design Manual, Standard Specifications
- Institute of Transportation Engineers (ITE)
  - Designing Walkable Urban Thoroughfares: A Context Sensitive Approach
  - Urban Street Geometric Design Handbook
  - Traffic Engineering Handbook
- Other Standards
  - Federal Highway Administration (FHWA)
  - American Society for Testing Materials (ASTM)
  - International Building Code





# Public Improvements Process

- Planning / Engineering
- Cost  
(Capital Project vs Low Cost)
- Construction
- Maintenance





# Public Improvements

## Identify Need / Validate Request

Verifiable Safety Concern

Non-Compliance with Known Standards

## Collect Data

Traffic Counts, Site Conditions, Accident Review

## Design Solution within Guidelines

Review standards for appropriate correction with consistency

Establishing standard expectations for users

Best Management Practices (BMP)

Appropriate Certifications (i.e. Professional Engineer, Permitting)





# Capital Projects

- Collect Data & Consult Long Range Plan(s)
- Identify Needs / Type of Project
  - Capacity Expansion (Corridor, Intersection)
  - Intersection Safety Improvements (Sight Distance, Geometry)
  - Streetscape Projects (e.g. Kirkwood Ave., Walnut Street)
  - Bicycle and Pedestrian Improvements
- Identify Funding Source(s)
  - General Fund
  - Bond
  - Community Development Block Grants (CDBG)
  - Tax Increment Finance (TIF) District
  - Metropolitan Planning Organization (MPO)
    - Transportation Enhancement (TE) Grants
    - Highway Safety Improvement Program (HSIP)
    - Safe Routes to School
    - Surface Transportation Program (STP)





# Examples – Kirkwood Streetscape





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# Examples 17<sup>th</sup> & Arlington





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# Other Examples

- Walnut Streetscape – 1<sup>st</sup> Street to 3<sup>rd</sup> Street (TIF)
- Tapp & Rockport Roundabout (STP)
- Sare & Rogers Roundabout (STP)
- South Rogers Street Improvements – Rockport to Watson (STP)
- South Rogers Streetscape - Kirkwood to Grimes (TIF)
- Henderson Street Safe Routes Project – Hillside to Allen Street (STP, CDBG)
- Allen Street Bicycle Boulevard – Henderson St. to B-Line Trail (TE App.)
- West 3<sup>rd</sup> Street – Franklin Dr. to Landmark Ave. (STP, Bond)
- Henderson & Atwater Intersection Improvements (HSIP)
- North Dunn Street & Old SR 37
- 17<sup>th</sup> & Fee / 17<sup>th</sup> & Jordan (HES)
- East 3<sup>rd</sup> Street Sidewalk (Local Funding)
- Marilyn Drive Sidewalk (Local Funding)

