Why Are We Here?

2008: Need for 5 lanes identified (SH 16 to Linder Road) in NWFTS

2012: 2012 ACHD CIP includes Beacon Light at 5 lanes (SH 16 to SH 55)

2012/2013: NWFTS Update confirms the need for widening of Beacon Light to 5 Lanes

Present: New Committee is formed to identify a solution that can be jointly supported by all stakeholders

NWFTS: Northwest Foothills Transportation Study
CIP: Capital Improvements Plan
Role of the Committee

Assist the Project Team with the following:

• Review the findings of the NWFTS Update for Beacon Light Road
• Identify options for accommodating future projected traffic along the Beacon Light Road corridor
• Form a implementable recommendation for the City, County, ITD and ACHD
NWFTS Steering Committee

• Provided guidance during study update
• Membership Included:
  – ITD, ACHD, Eagle City Council, Eagle Planning, Foothills Representative, Eagle Transportation Committee, Eagle Resident, Avimor, M3, Eagle Police, Eagle Sewer District
• Discussed Beacon Light Road size in October 2012

Recommendation on Beacon Light Road:

Build to 3 lanes but preserve right-of-way for five lanes. (straw poll on 10/24/2012)
Stakeholder Comments

- Eagle City Council/Mayor

  Beacon Light Road Recommendation:
  
  *Plan and build to 3 lanes between Linder Road and SH 55. Right of way preservation is considered reasonable.*

- ITD

  No Comment on Beacon Light Road

  Related Comment:
  
  *SH 44 (west of Eagle Road) is being constructed to four lanes plus a median.*
**Current Recommendation**

NWFTS Update Recommendation:
- **Maintain current 2 lanes and preserve for 5 lanes.**
  - Improve pedestrian accommodations
  - Widen at intersections as required
    - Achieves capacity of 3 lanes at intersections
  - Widen to five lanes when needed
Traffic Modeling Process

1. Regional Land-Use Growth Estimates
2. Traffic Demand Between Origins and Destinations
3. Assign Traffic Demand to Roadways (Traffic Model)
4. Change Roadways / Network

Driven by Local Land-Use Plans
Approved 2035 Population Estimates

Future land-use estimates developed from:

- City Comprehensive Plans
- Community Planning Association of SW Idaho (COMPASS)

- Eagle
  - +30,130 (+125%)  

- Boise
  - +93,067 (+37%)  

- Star
  - +13,349 (+179%)  

- Meridian
  - +86,347 (+100%)  

*Population Estimates from Table 4-1 of Communities in Motion (CIM) Long-Range Plan
Projected Population in 2035: Foothills and Beacon Light Road

- Growth along Beacon Light Road is a significant part of future growth in Eagle

Includes NWFTS Growth Estimate of 13,889 Households by 2035
Year 2035 Projected Traffic

BEACON LIGHT ROAD TRAFFIC DEMAND

Peak Hourly One-Way Traffic Volume

- 2013 EXISTING
- 2035 PROJECTED TRAFFIC
Year 2035 Projected Traffic

BEACON LIGHT ROAD TRAFFIC DEMAND

Capacity of Three Lanes

What do we do with the additional demand

Peak Hourly One-Way Traffic Volume

2013 EXISTING

2035 PROJECTED TRAFFIC
Existing Conditions

Beacon Light Road
• Average of approximately 1,200 daily vehicles (one-way traffic volume)
• Average of approximately 190 peak hourly vehicles (one-way traffic volume)
Future Conditions

Beacon Light Road
- Projected average of approximately 30,000 daily vehicles (one-way traffic volume)
- Projected average of approximately 1500 peak hourly vehicles (one-way traffic volume)
How We Plan:
Option #1: Widen Roadway
How We Plan: Option #2: Add or Widen Another Roadway
How We Plan: Option #3: Reduce Land–Use

Less Development = Less Traffic
Beacon Light Road Options

- Widen Beacon Light Road to 5 Lanes
- Widen State Highway 44 to 6 Lanes + Median
- Build or Widen Another East-West Roadway
- Less Development = Less Traffic
Beacon Light Road Options

Beacon Light Road – Traffic Projections

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Peak Hourly Volume</th>
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<tbody>
<tr>
<td>2013 Existing</td>
<td>200</td>
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<tr>
<td>Future Traffic Demand</td>
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<tr>
<td>Future Demand With Eagle Entitled Only</td>
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<tr>
<td>Future Demand With SH 44 Widening to 6 Lanes + Median</td>
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<tr>
<td>Future Demand With Eagle Entitled Only and SH 44 Widening to 6 Lanes + Median</td>
<td>1,600</td>
</tr>
</tbody>
</table>
Where Do We Go From Here?

• Option #1: Reduce Land Use and Widen SH 44 to 6 Lanes
  – Beacon Light Road can be planned for 3 lanes
• If not Option #1
  – Widen Beacon Light Road to 5 lanes when needed
    • Evaluate design options for Beacon Light Road to maintain character
      OR
  – Evaluate other ACHD/ITD corridors

• Meeting #2
  – Form an implementable recommendation for the City and ACHD to review and ultimately adopt